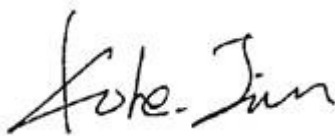


TEST REPORT

Application No.: GZEM1911017425HS
Applicant: Breville Pty Ltd
Address of Applicant: Ground Floor, Suite 2, 170-180 Bourke Rd, Alexandria, NSW 2015, Australia
Manufacturer: The same as applicant
Address of Manufacturer: The same as applicant
Equipment Under Test (EUT):
FCC ID: 2AAODBMO700
EUT Name: Microwave oven
Model No.: BMO700 XXXYYY /ZZ (Where "XXX" indicates a different colour and "YYY" indicates different country or region, "ZZ" indicates for internal use. Each "XXX" or "YYY" or "ZZ" can be '0-9','A-Z' or blank) □
 □ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Breville
Standard(s): 47 CFR Part 18
Date of Receipt: 2019-12-03
Date of Test: 2019-12-14 to 2019-12-17
Date of Issue: 2015-12-02 (For original report: GZEM150900467701)
 2020-06-03 (for the report GZEM150900467705)

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.




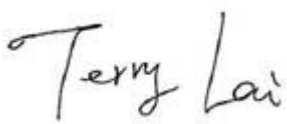
Kobe Jian
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2015-12-02		Original
02		2020-06-03		Copy report: add alternative one inverter and two IGBT.

Authorized for issue by:			
Tested By			2019-12-14 to 2019-12-17
	Damon_Guan /Project Engineer		Date
Checked By			2020-06-03
	Terry_Lai /Reviewer		Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.307(b)	Pass
Output Power Measurement	47 CFR Part 18	FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement	47 CFR Part 18	FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test	47 CFR Part 18	FCC OST/MP-5:1986	1 mW/cm ²	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305(b)	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305(b)	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305(b)	Pass



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☒ Remark for the report GZEM150900467705:

This test report (Ref. No.: GZEM150900467705) is only valid with the original test report (Ref. No.: GZEM150900467701). Only add alternative one inverter and two IGBT.

Declaration of EUT Family Grouping:

Model No.: BMO700 XXXYYY /ZZ (Where "XXX" indicates a different colour and "YYY" indicates different country or region, "ZZ" indicates for internal use. Each "XXX" or "YYY" or "ZZ" can be '0-9','A-Z' or blank)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the color, plug or texture on the surface finish etc.

Before			After		
Part name	Type No.	manufacturer	Part name	Type No.	manufacturer
Inverter	MD-INV2000-L0 S	SONG RESEARCH Electronic Technology CO.,LTD	Inverter	MD-INV2000 -L4	Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd
IGBT	IHW30N120R3	Infineon Technologies	IGBT 1	IHW30N135 R3	Infineon Technologies
			IGBT 2	IHW30N135 R5	Infineon Technologies

Therefore one model BMO700 USC /A with IGBT 1 was tested full items, one model BMO700 USC /A with IGBT 2 was test full items in this report. For original data please refer to report GZEM150900467701.



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 120V 60Hz 1450W
 Test Voltage: AC 120V 60Hz
 Cable: About 1.2m x 3 wires unscreened AC mains cable.

4.2 Description of Support Units

Load for microwave ovens for testing:

1000mL of water in the beaker for power output and frequency measurement.
One of 700 and the other of 300mL of water for second and third harmonic radiation measurement.
700mL of water for all other measurement

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	±3.63dB (9kHz to 150kHz)
		±3.22dB (150kHz to 30MHz)
2	Disturbance Power	±3.78dB
3	Radiated Emissions	±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-6GHz)

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2019-09-16	2020-09-15
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiation hazard test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electric Field Probe(100kHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17



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EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01



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1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15
AC Power Source	California	50001iX	EMC0608	2020-03-27	2021-03-26
Power Analyzer	California	PACS	EMC0607	2020-03-27	2021-03-26
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC OST/MP-5:1986
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

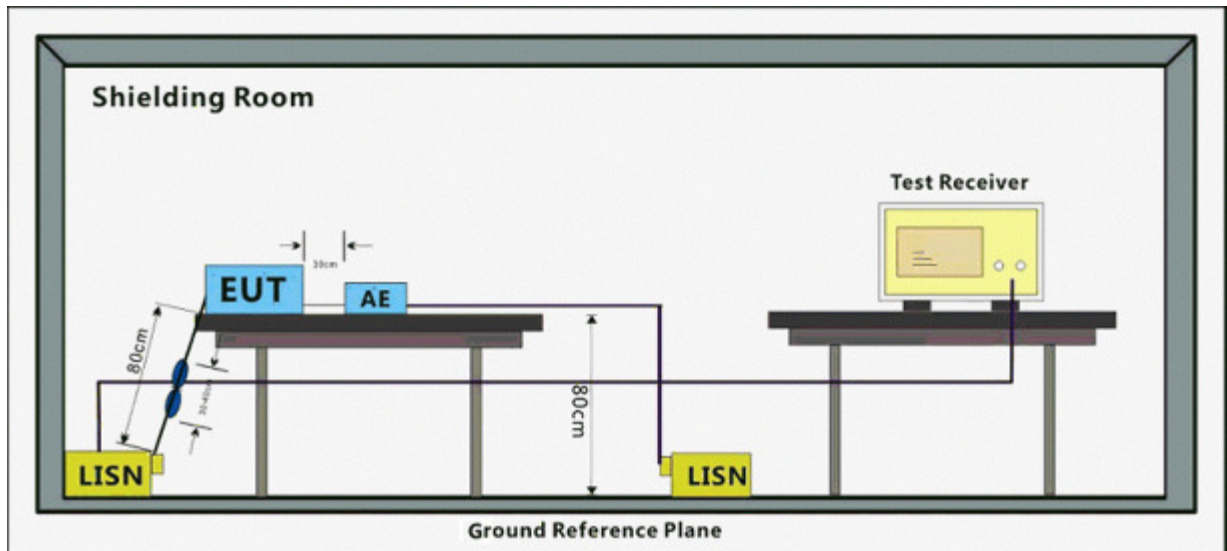
Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- a: Test the EUT in microwave mode with maximum power.
- b: Test the EUT in microwave mode with middle power.
- c: Test the EUT in microwave mode with lowest power.

The worst case for final test: a: Test the EUT in microwave mode with maximum power.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

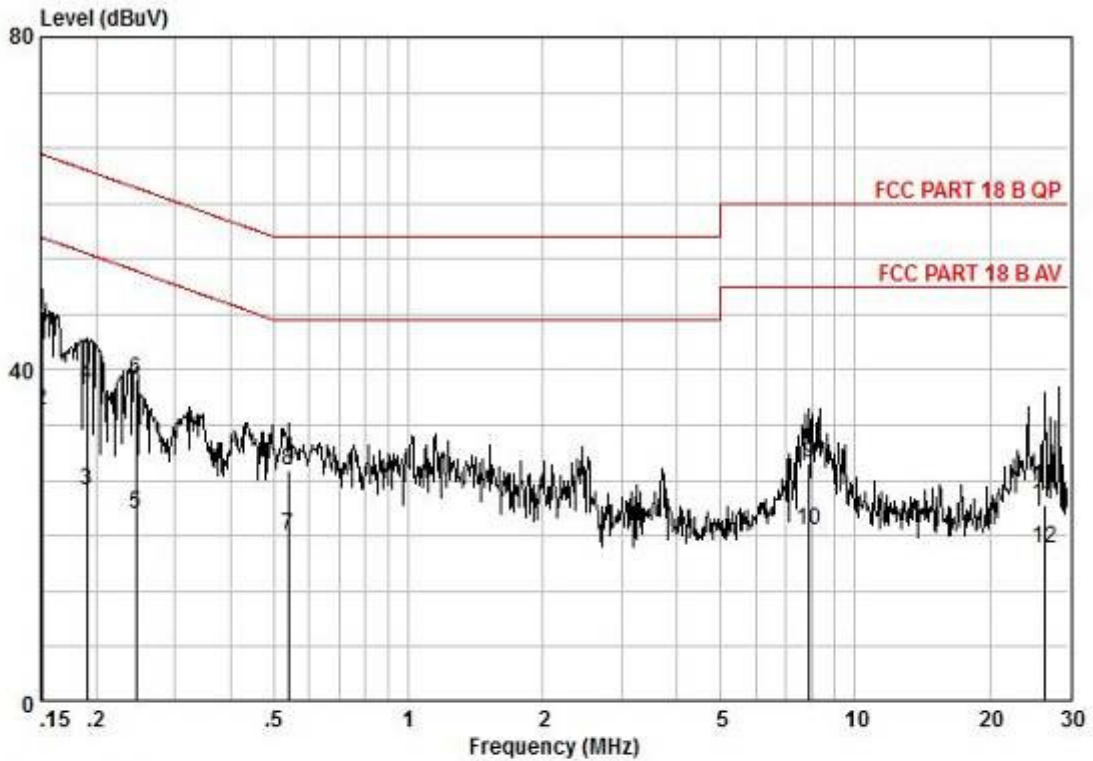
Measured Level = Read level + Cable Loss + LISN Factor



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Mode:a; Line:Live Line; model BMO700 USC /A with IGBT 1



Pol : LIVE
No : IGBT1
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	37.22	0.10	9.67	46.99	65.96	-18.97	QP
0.15	25.25	0.10	9.67	35.02	55.96	-20.94	AVERAGE
0.19	15.79	0.10	9.66	25.55	54.02	-28.47	AVERAGE
0.19	28.49	0.10	9.66	38.25	64.02	-25.77	QP
0.25	12.96	0.10	9.67	22.73	51.91	-29.18	AVERAGE
0.25	29.05	0.10	9.67	38.82	61.91	-23.09	QP
0.54	10.28	0.10	9.67	20.05	46.00	-25.95	AVERAGE
0.54	18.14	0.10	9.67	27.91	56.00	-28.09	QP
7.89	18.68	0.30	9.74	28.72	60.00	-31.28	QP
7.89	10.61	0.30	9.74	20.65	50.00	-29.35	AVERAGE
26.56	13.60	0.40	9.77	23.77	60.00	-36.23	QP
26.56	8.37	0.40	9.77	18.54	50.00	-31.46	AVERAGE

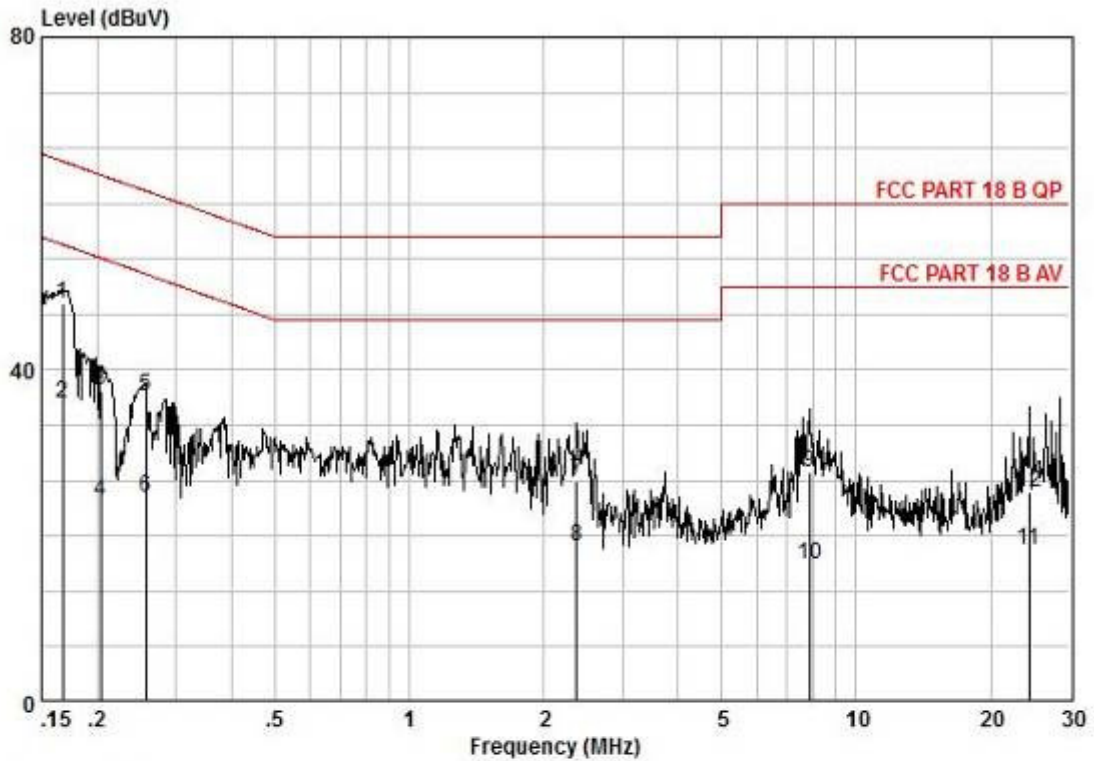


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Mode:a; Line:Live Line; model BMO700 USC /A with IGBT 2



Pol : LIVE
No : IGBT2
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.17	38.23	0.10	9.66	47.99	65.08	-17.09	QP
0.17	26.10	0.10	9.66	35.86	55.08	-19.22	AVERAGE
0.20	27.76	0.10	9.66	37.52	63.45	-25.93	QP
0.20	14.43	0.10	9.66	24.19	53.45	-29.26	AVERAGE
0.26	27.16	0.10	9.67	36.93	61.51	-24.58	QP
0.26	14.96	0.10	9.67	24.73	51.51	-26.78	AVERAGE
2.37	16.87	0.14	9.69	26.70	56.00	-29.30	PEAK
2.37	8.92	0.14	9.69	18.75	46.00	-27.25	AVERAGE
7.85	17.65	0.30	9.74	27.69	60.00	-32.31	QP
7.85	6.60	0.30	9.74	16.64	50.00	-33.36	AVERAGE
24.40	8.15	0.40	9.79	18.34	50.00	-31.66	AVERAGE
24.40	15.11	0.40	9.79	25.30	60.00	-34.70	QP

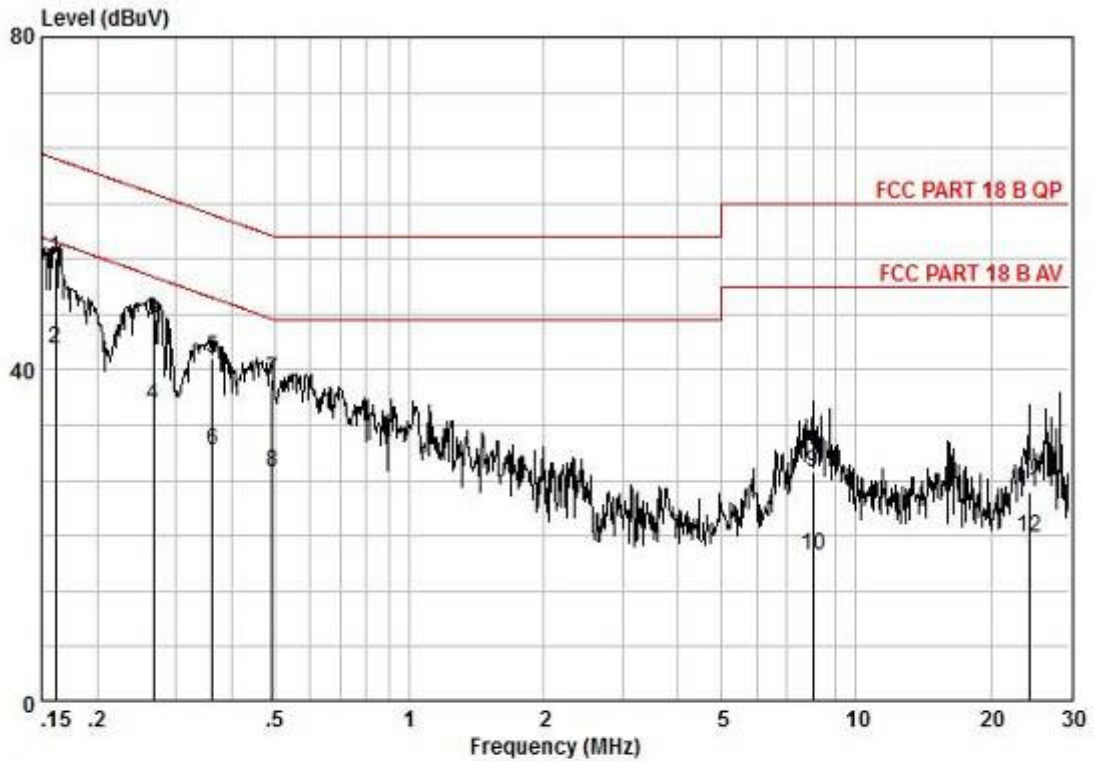


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Mode:a; Line:Neutral Line; model BMO700 USC /A with IGBT 1



Pol : NEUTRAL
No : IGBT1
Model :

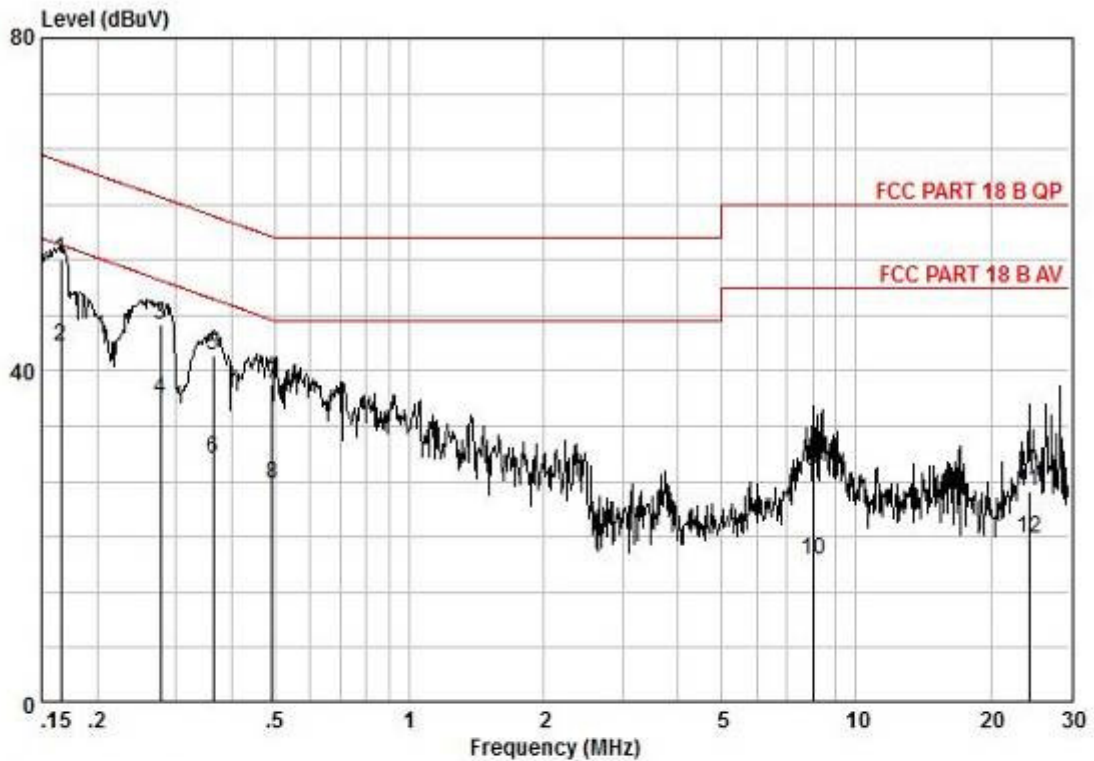
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.16	43.63	0.10	9.59	53.32	65.38	-12.06	QP
0.16	32.92	0.10	9.59	42.61	55.38	-12.77	AVERAGE
0.27	36.29	0.10	9.59	45.98	61.20	-15.22	QP
0.27	26.04	0.10	9.59	35.73	51.20	-15.47	AVERAGE
0.36	31.81	0.10	9.59	41.50	58.69	-17.19	QP
0.36	20.66	0.10	9.59	30.35	48.69	-18.34	AVERAGE
0.49	29.13	0.10	9.60	38.83	56.14	-17.31	QP
0.49	17.99	0.10	9.60	27.69	46.14	-18.45	AVERAGE
8.02	17.73	0.30	9.70	27.73	60.00	-32.27	QP
8.02	7.60	0.30	9.70	17.60	50.00	-32.40	AVERAGE
24.40	14.85	0.40	10.04	25.29	60.00	-34.72	QP
24.40	9.33	0.40	10.04	19.77	50.00	-30.24	AVERAGE



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Mode:a; Line:Neutral Line; model BMO700 USC /A with IGBT 2



Pol : NEUTRAL
No : IGBT2
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.17	43.69	0.10	9.60	53.39	65.16	-11.78	QP
0.17	33.21	0.10	9.60	42.91	55.16	-12.26	AVERAGE
0.28	35.92	0.10	9.59	45.61	60.90	-15.29	QP
0.28	26.91	0.10	9.59	36.60	50.90	-14.30	AVERAGE
0.36	32.18	0.10	9.59	41.87	58.65	-16.78	QP
0.36	19.77	0.10	9.59	29.46	48.65	-19.19	AVERAGE
0.49	28.61	0.10	9.60	38.31	56.14	-17.83	QP
0.49	16.73	0.10	9.60	26.43	46.14	-19.71	AVERAGE
8.02	17.83	0.30	9.70	27.83	60.00	-32.17	QP
8.02	7.29	0.30	9.70	17.29	50.00	-32.71	AVERAGE
24.40	15.05	0.40	10.04	25.49	60.00	-34.52	QP
24.40	9.49	0.40	10.04	19.93	50.00	-30.08	AVERAGE



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6.2 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 53.9 % RH Atmospheric Pressure: 1022 mbar

Test mode a: Test the EUT in microwave mode with maximum power.

6.2.2 Measurement Data

model BMO700 USC /A with IGBT 1

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time(s)	Power output (watts)
1001	410	19.8	10.4	19.6	44	875.3

model BMO700 USC /A with IGBT 2

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time(s)	Power output (watts)
1002	410	19.9	10.2	19.6	45	874.9

Formula :

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE :

P is the microwave power output, in watts

m_w is the mass of the water, in grams

m_c is the mass of the container, in grams

T₀ is the ambient temperature, in degrees Celsius

T₁ is the initial temperature of the water, in degrees Celsius

T₂ is the final temperature of the water, in degrees Celsius

t is the heating time, in seconds, excluding the magnetron filament heating-up time.



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6.2.3 Input Power Measurement

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the centre of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

model BMO700 USC /A with IGBT 1

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.9	12.67	0.931	1414	1450

model BMO700 USC /A with IGBT 2

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.8	12.56	0.933	1404	1450



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6.3 Radiation Hazard Test

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test distance: Five centimeters from the oven surface

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.4 °C Humidity: 52.7 % RH Atmospheric Pressure: 1019 mbar
 Test mode a: Test the EUT in microwave heating mode, setting at maximum power level.

6.3.2 Measurement Data

model BMO700 USC /A with IGBT 1

Maximum measure level (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
0.17	1.00	Pass

model BMO700 USC /A with IGBT 2

Maximum measure level (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
0.23	1.00	Pass



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6.4 Operating Frequency

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 2400-2500 MHz
 Detector: Average for the final result for outside ISM band(2450MHz±50MHz)
 Outside band limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =875.3 and 874.9 W according to clause 6.2.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=30.39+40=70.39dBuV/m @ 3m distance.

ISM band: ISM equipment may be operated on any frequency above 9 kHz.
 And the frequency band 2400-2500MHz is allocated for use by ISM equipment. (§18.301)

ISM frequency	Tolerance
6.78MHz	±15.0kHz
13.56MHz	±7.0kHz
27.12MHz	±163.0kHz
40.68MHz	±20.0kHz
915MHz	±13.0MHz
2450MHz	±50.0MHz
5800MHz	±75.0MHz
24125MHz	±125.0MHz
61.25GHz	±250.0MHz
122.5GHz	±500.0MHz
245.00GHz	±1.0GHz

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave heating mode, setting at maximum power level.
 b: Test the EUT in microwave heating mode, setting at middle power level.
 c: Test the EUT in microwave heating mode, setting at lowest power level.
 Worst mode a: Test the EUT in microwave heating mode, setting at maximum power level.



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6.4.2 Measurement Data

1)The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

model BMO700 USC /A with IGBT 1

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2472

model BMO700 USC /A with IGBT 2

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2466

2)The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

model BMO700 USC /A with IGBT 1

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2467

model BMO700 USC /A with IGBT 2

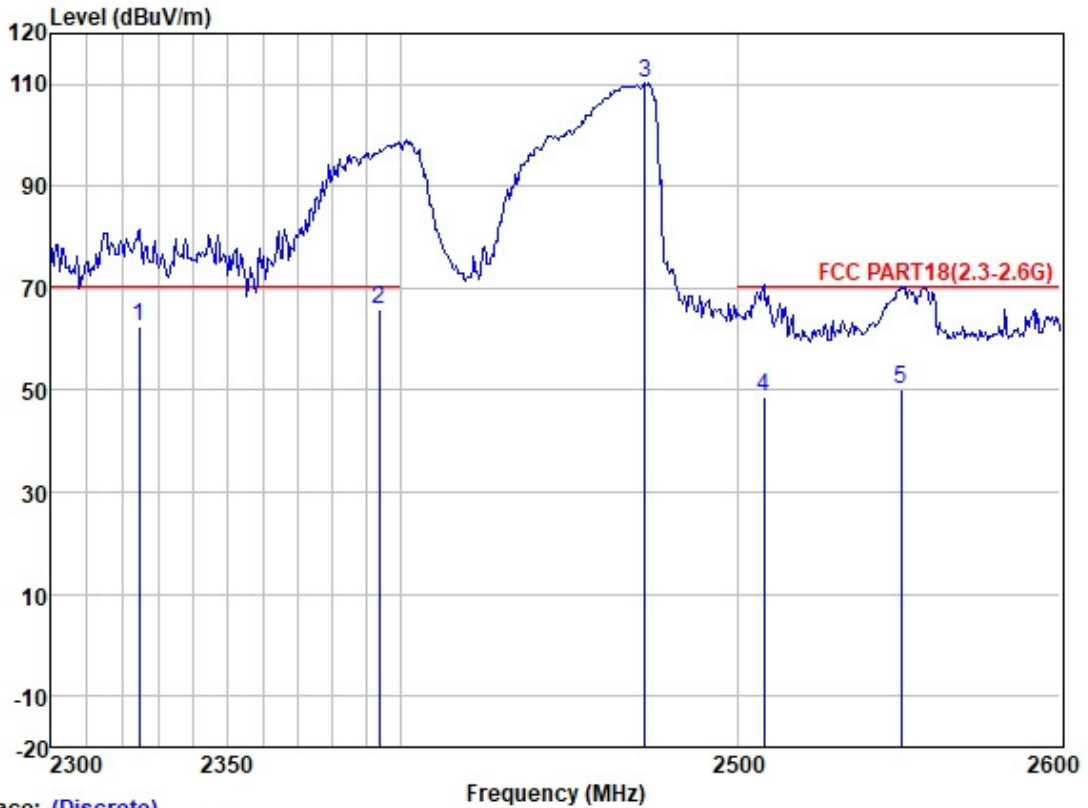
ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2476



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1)The variation of frequency with time
model BMO700 USC /A with IGBT 1



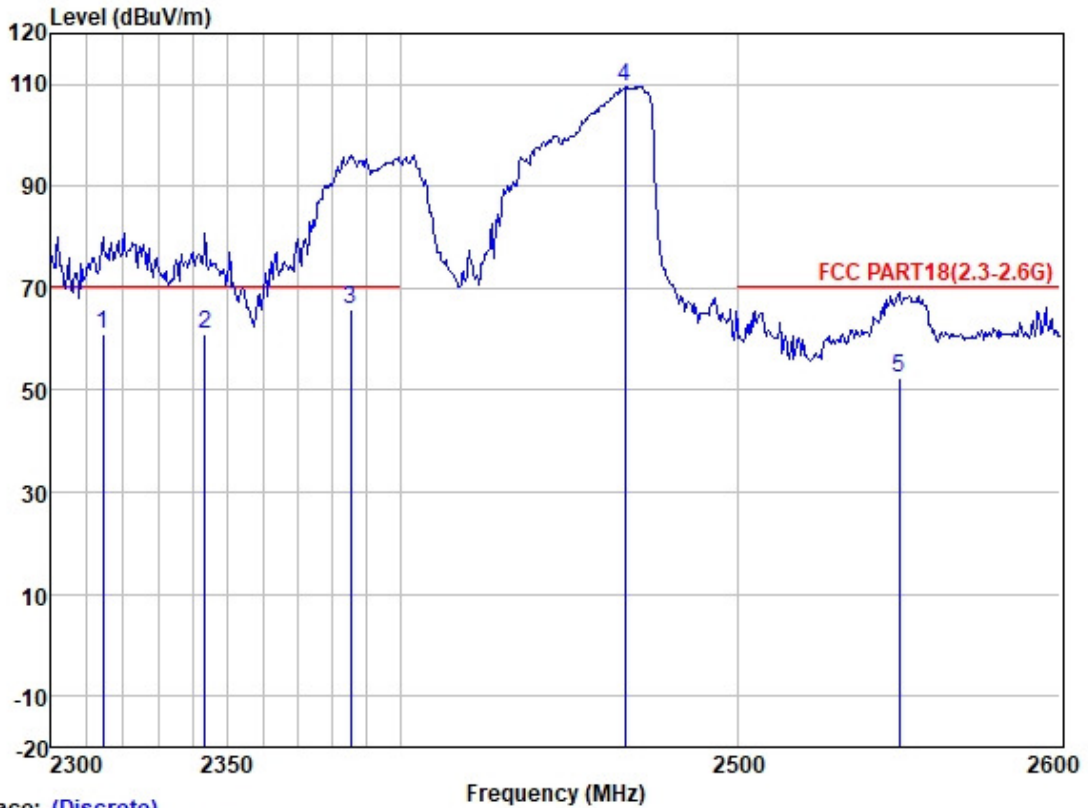
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2324.664	30.59	28.64	3.34	0.00	62.57	70.39	-7.82	VERTICAL Average
2	2393.496	33.45	28.82	3.49	0.00	65.76	70.39	-4.63	VERTICAL Average
3	2471.930	77.71	28.96	3.55	0.00	110.22	-----	-----	VERTICAL Peak
4	2507.952	16.32	29.01	3.41	0.00	48.74	70.39	-21.65	VERTICAL Average
5	2550.120	17.80	29.07	3.45	0.00	50.32	70.39	-20.07	VERTICAL Average



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model BMO700 USC /A with IGBT 2



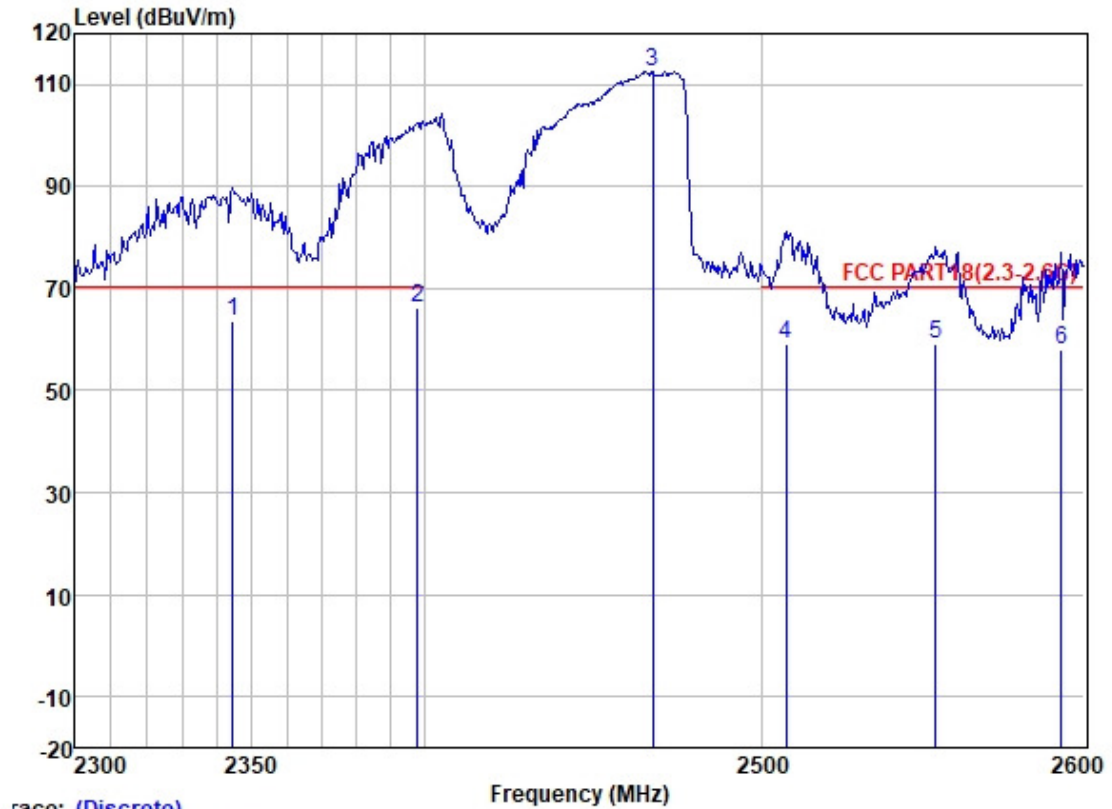
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2314.426	29.17	28.60	3.32	0.00	61.09	70.39	-9.30	VERTICAL Average
2	2343.264	28.77	28.70	3.38	0.00	60.85	70.39	-9.54	VERTICAL Average
3	2385.293	33.73	28.80	3.48	0.00	66.01	70.39	-4.38	VERTICAL Average
4	2465.876	77.12	28.95	3.50	0.00	109.57	-----	-----	VERTICAL Peak
5	2549.494	19.75	29.07	3.45	0.00	52.27	70.39	-18.12	VERTICAL Average



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2)The variation of frequency with line voltage
model BMO700 USC /A with IGBT 1



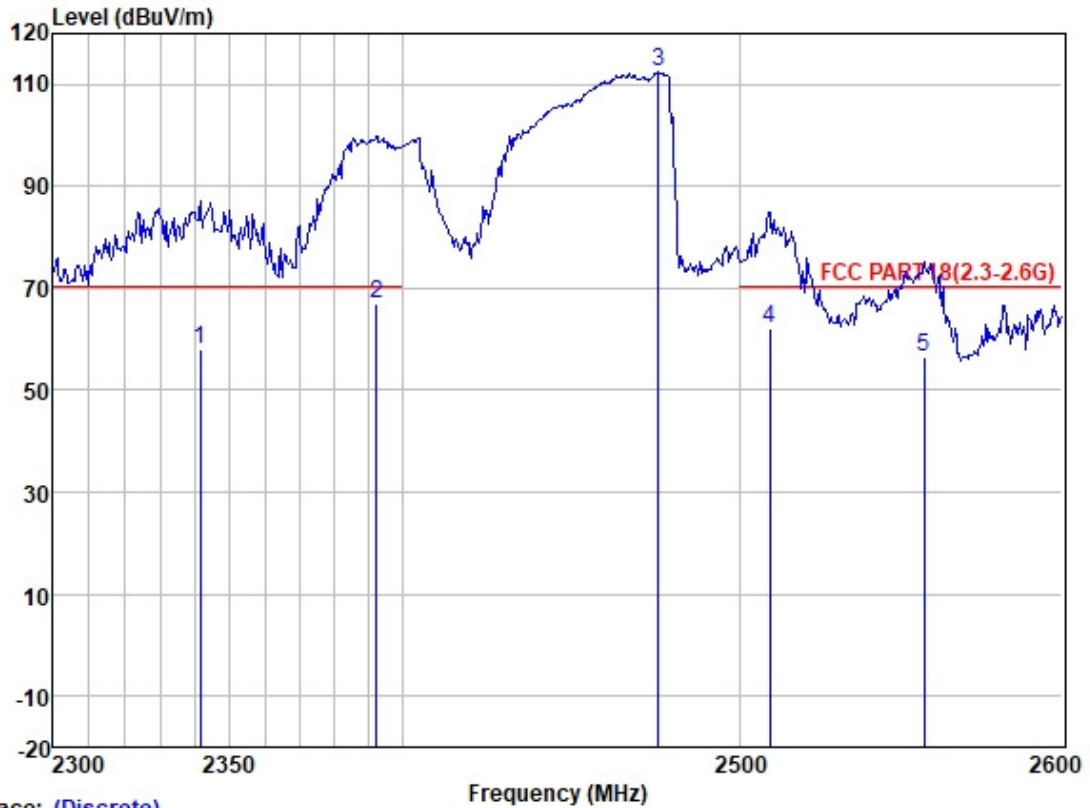
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2344.413	31.56	28.70	3.38	0.00	63.64	70.39	-6.75	HORIZONTAL Average
2	2397.607	34.07	28.83	3.50	0.00	66.40	70.39	-3.99	HORIZONTAL Average
3	2467.086	80.26	28.95	3.50	0.00	112.71	-----	-----	HORIZONTAL Peak
4	2507.337	26.74	29.01	3.41	0.00	59.16	70.39	-11.23	HORIZONTAL Average
5	2553.248	26.52	29.07	3.45	0.00	59.04	70.39	-11.35	HORIZONTAL Average
6	2592.679	25.56	29.15	3.49	0.00	58.20	70.39	-12.19	HORIZONTAL Average



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model BMO700 USC /A with IGBT 2



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2341.541	26.16	28.68	3.37	0.00	58.21	70.39	-12.18 HORIZONTAL Average
2	2392.029	34.66	28.82	3.49	0.00	66.97	70.39	-3.42 HORIZONTAL Average
3	2475.570	79.88	28.97	3.60	0.00	112.45	-----	HORIZONTAL Peak
4	2509.182	29.55	29.01	3.41	0.00	61.97	70.39	-8.42 HORIZONTAL Average
5	2556.694	23.84	29.08	3.46	0.00	56.38	70.39	-14.01 HORIZONTAL Average



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6.5 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan, Average for the final result
 (100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)

Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(µV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =875.3 and 874.9 W according to clause 6.2.2

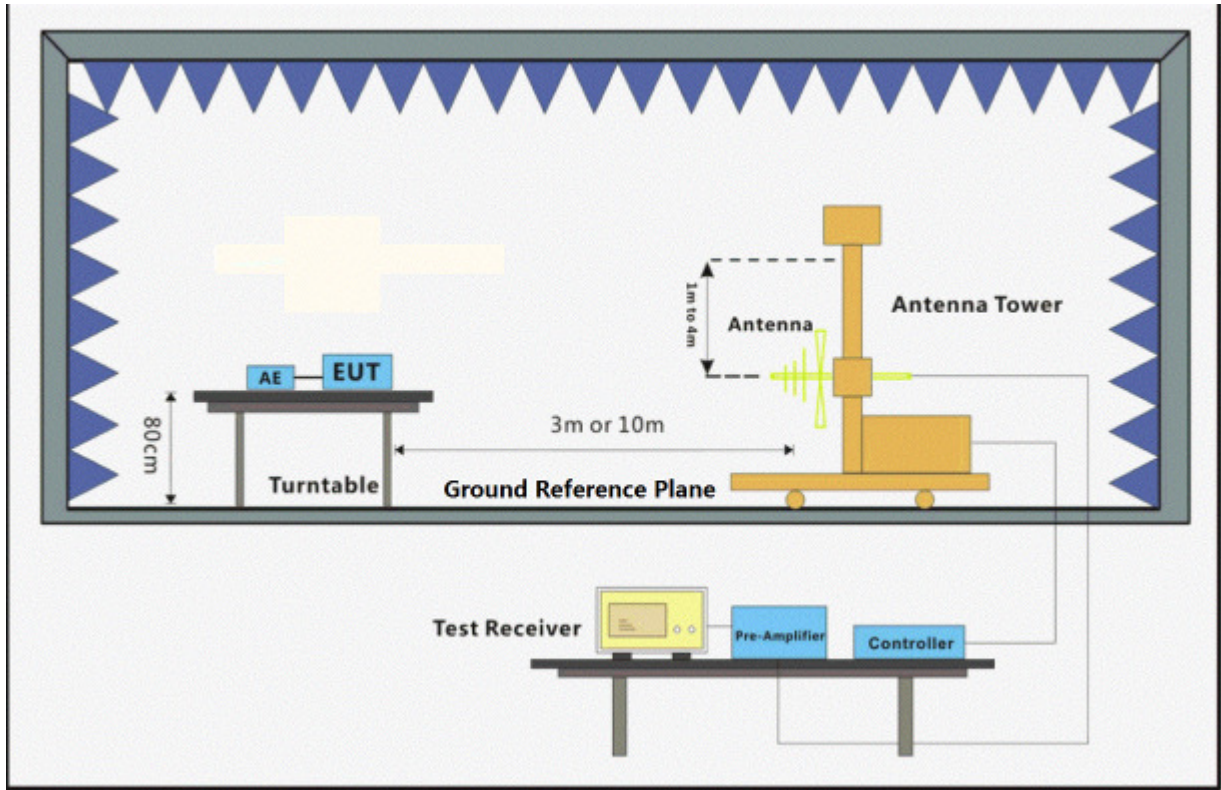
Limit= $20\lg(25*\sqrt{\text{power}/500})+20\lg(300/3)=30.39+40=70.39\text{dBuV/m}$
 @ 3m distance.

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave mode with maximum power.
 b: Test the EUT in microwave mode with middle power.
 c: Test the EUT in microwave mode with lowest power.
 The worst case for final test:
 a: Test the EUT in microwave mode with maximum power.



6.5.2 Test Setup Diagram



6.5.3 Measurement Data

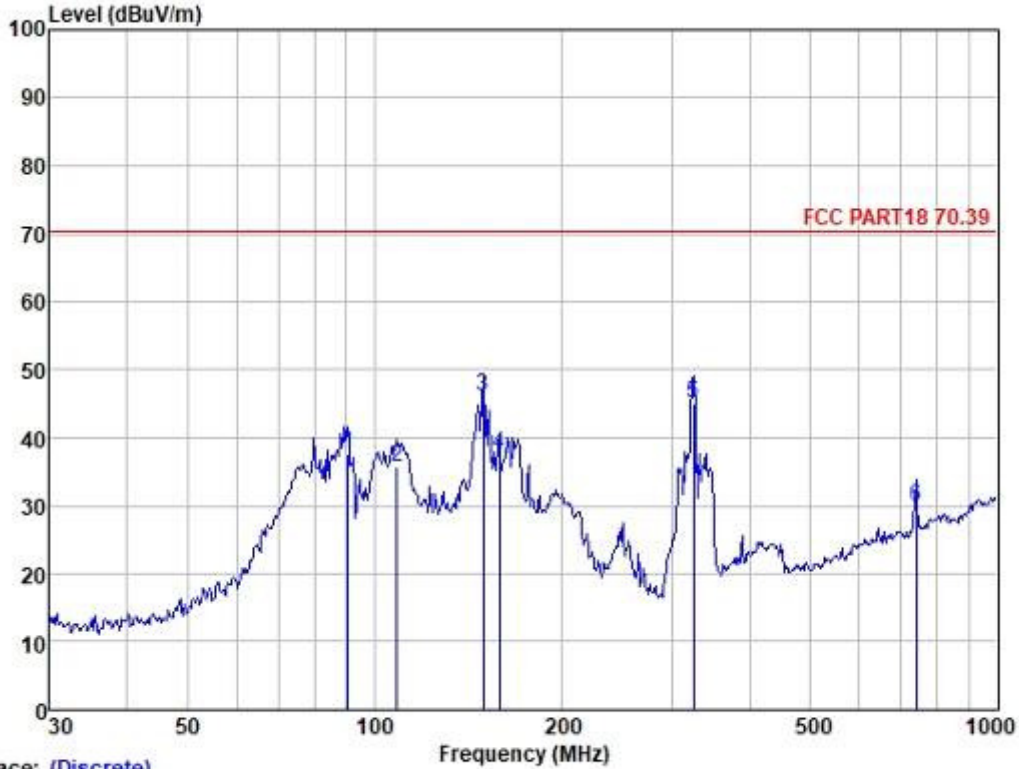
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



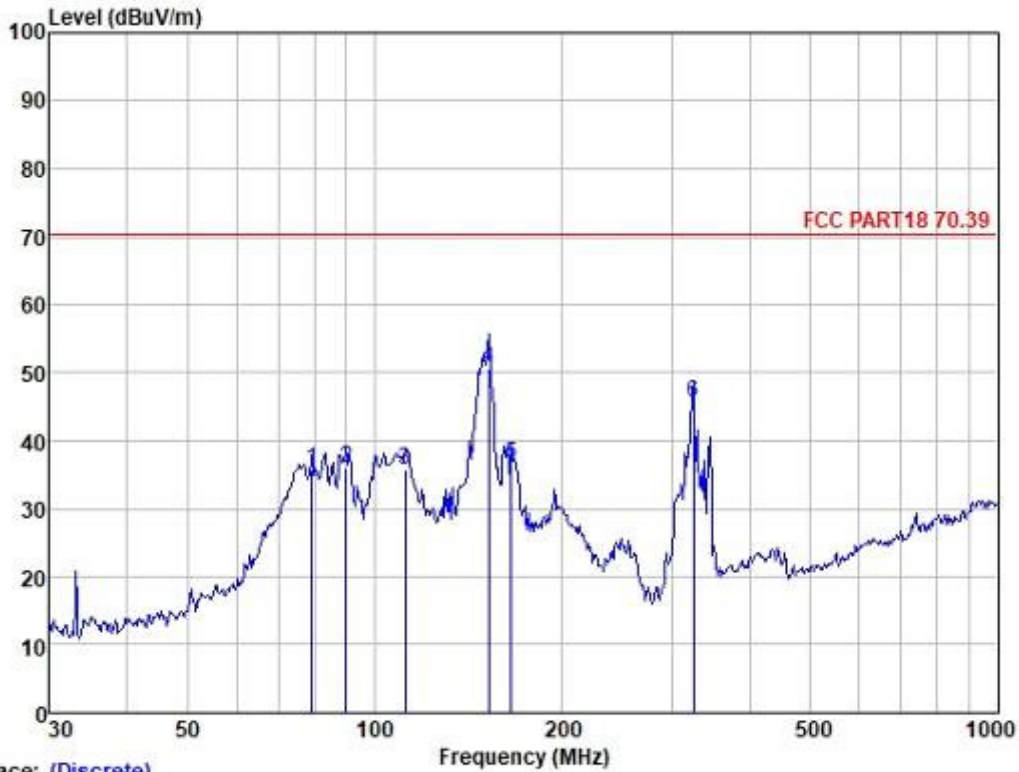
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	90.537	55.11	7.90	1.61	27.10	37.52	70.39	-32.87	HORIZONTAL Average
2	108.647	50.73	10.33	1.70	27.08	35.68	70.39	-34.71	HORIZONTAL Average
3	148.963	57.21	13.75	2.05	26.89	46.12	70.39	-24.27	HORIZONTAL Average
4	158.668	48.59	13.67	2.13	26.85	37.54	70.39	-32.85	HORIZONTAL Average
5	324.456	55.16	14.40	3.01	27.54	45.03	70.39	-25.36	HORIZONTAL Average
6	739.661	30.77	22.00	5.24	28.11	29.90	70.39	-40.49	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



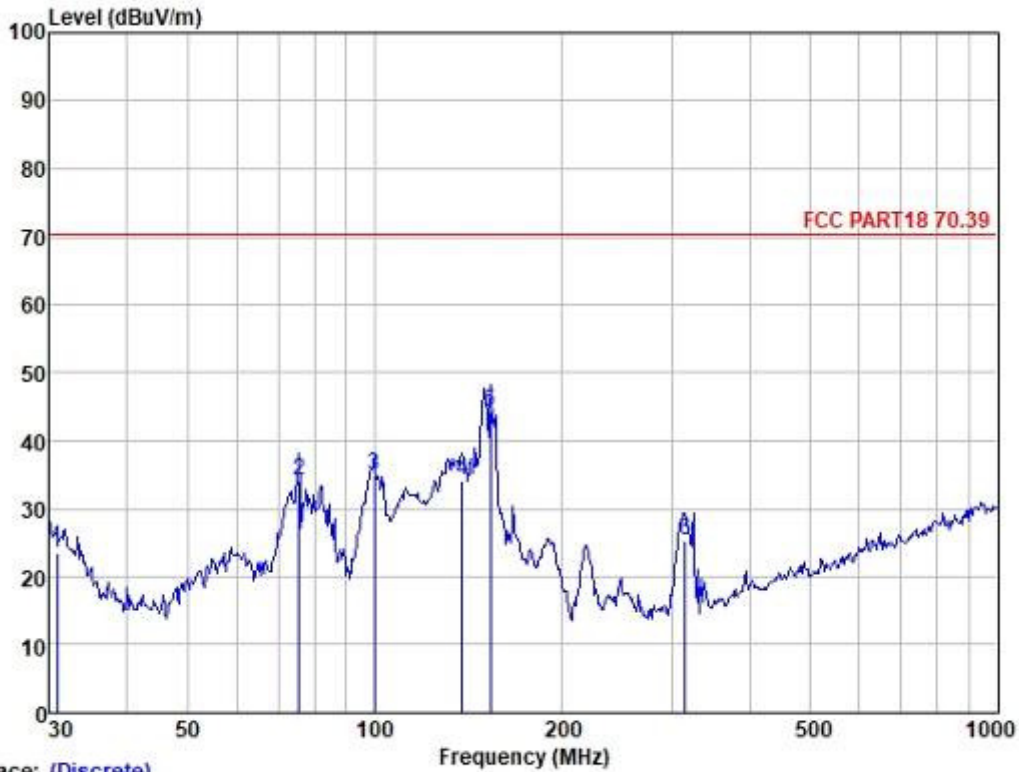
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	79.243	52.14	9.15	1.58	27.11	35.76	70.39	-34.63	HORIZONTAL Average
2	89.905	53.65	7.80	1.61	27.10	35.96	70.39	-34.43	HORIZONTAL Average
3	111.738	50.53	10.48	1.72	27.08	35.65	70.39	-34.74	HORIZONTAL Average
4	152.130	61.65	13.80	2.07	26.87	50.65	70.39	-19.74	HORIZONTAL Average
5	165.487	47.64	13.42	2.19	26.84	36.41	70.39	-33.98	HORIZONTAL Average
6	324.456	55.60	14.40	3.01	27.54	45.47	70.39	-24.92	HORIZONTAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



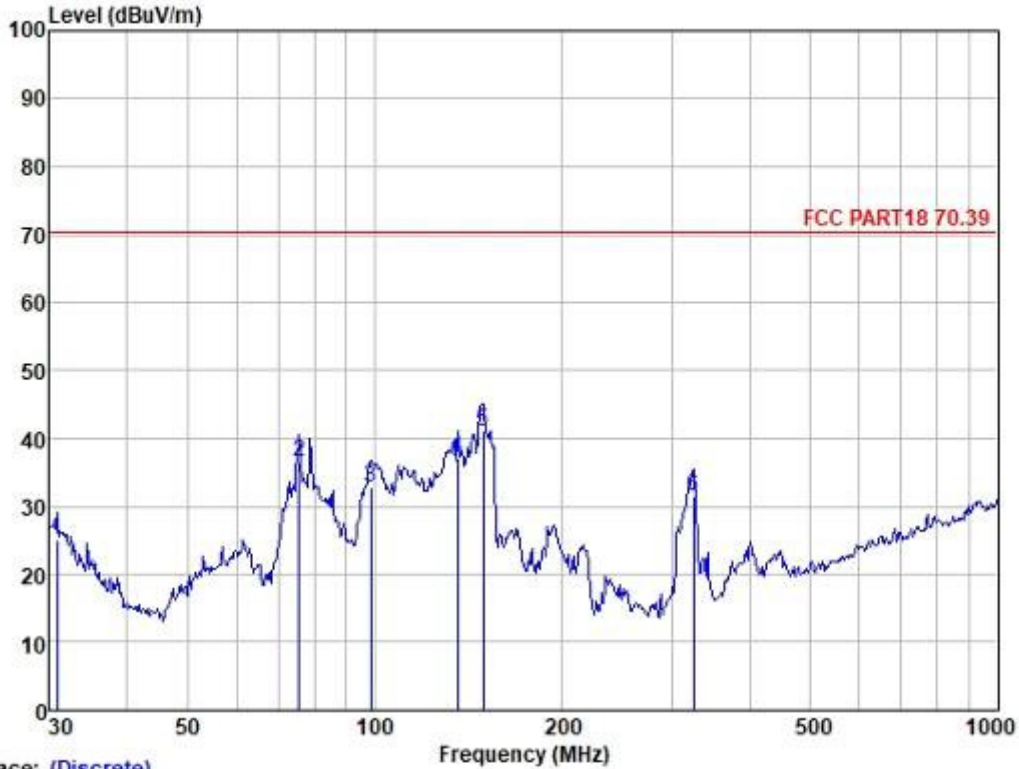
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	30.853	37.26	12.53	1.01	27.20	23.60	70.39	-46.79	VERTICAL Average
2	75.446	49.33	10.44	1.46	27.12	34.11	70.39	-36.28	VERTICAL Average
3	99.878	51.16	9.10	1.65	27.10	34.81	70.39	-35.58	VERTICAL Average
4	137.903	46.17	13.00	1.94	26.98	34.13	70.39	-36.26	VERTICAL Average
5	153.200	55.30	13.80	2.09	26.87	44.32	70.39	-26.07	VERTICAL Average
6	315.481	35.65	14.10	3.00	27.40	25.35	70.39	-45.04	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	30.853	38.71	12.53	1.01	27.20	25.05	70.39	-45.34	VERTICAL Average
2	75.446	51.75	10.44	1.46	27.12	36.53	70.39	-33.86	VERTICAL Average
3	98.487	49.49	8.87	1.64	27.10	32.90	70.39	-37.49	VERTICAL Average
4	135.982	49.40	12.80	1.91	26.99	37.12	70.39	-33.27	VERTICAL Average
5	148.963	52.10	13.75	2.05	26.89	41.01	70.39	-29.38	VERTICAL Average
6	324.456	41.55	14.40	3.01	27.54	31.42	70.39	-38.97	VERTICAL Average



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6.6 Radiated Emissions (above 1GHz)

- Test Requirement: 47 CFR Part 18
- Test Method: FCC OST/MP-5:1986
- Frequency Range: Above 1GHz
- Measurement Distance: 3m
- Detector: Peak for pre-scan, Average for the final result
(100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)
- Limit:
 - (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 - (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =875.3 and 874.9 W according to clause 6.2.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=30.39+40=70.39dBuV/m @ 3m distance.

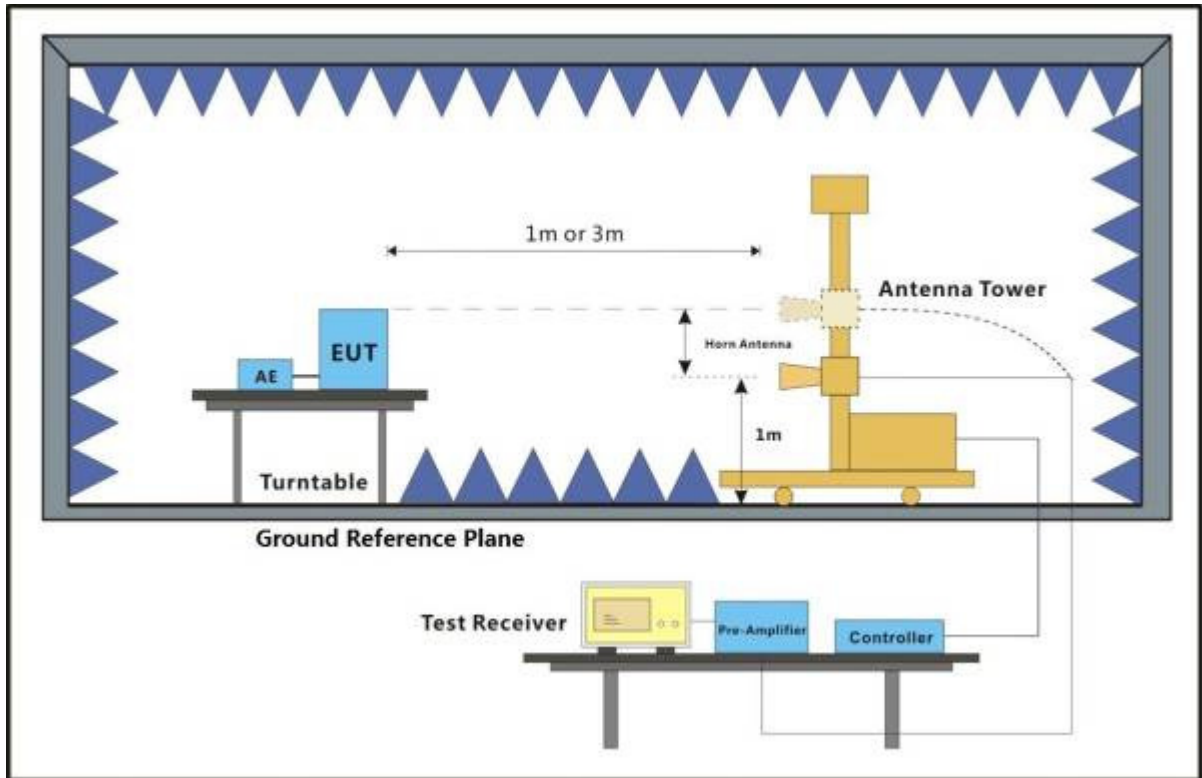
6.6.1 E.U.T. Operation

- Operating Environment:
 - Temperature: 22 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar
- Pretest these modes to find the worst case:
 - a: Test the EUT in microwave mode with maximum power.
 - b: Test the EUT in microwave mode with middle power.
 - c: Test the EUT in microwave mode with lowest power.
- The worst case for final test:
 - a: Test the EUT in microwave mode with maximum power.



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6.6.2 Test Setup Diagram



6.6.3 Measurement Data

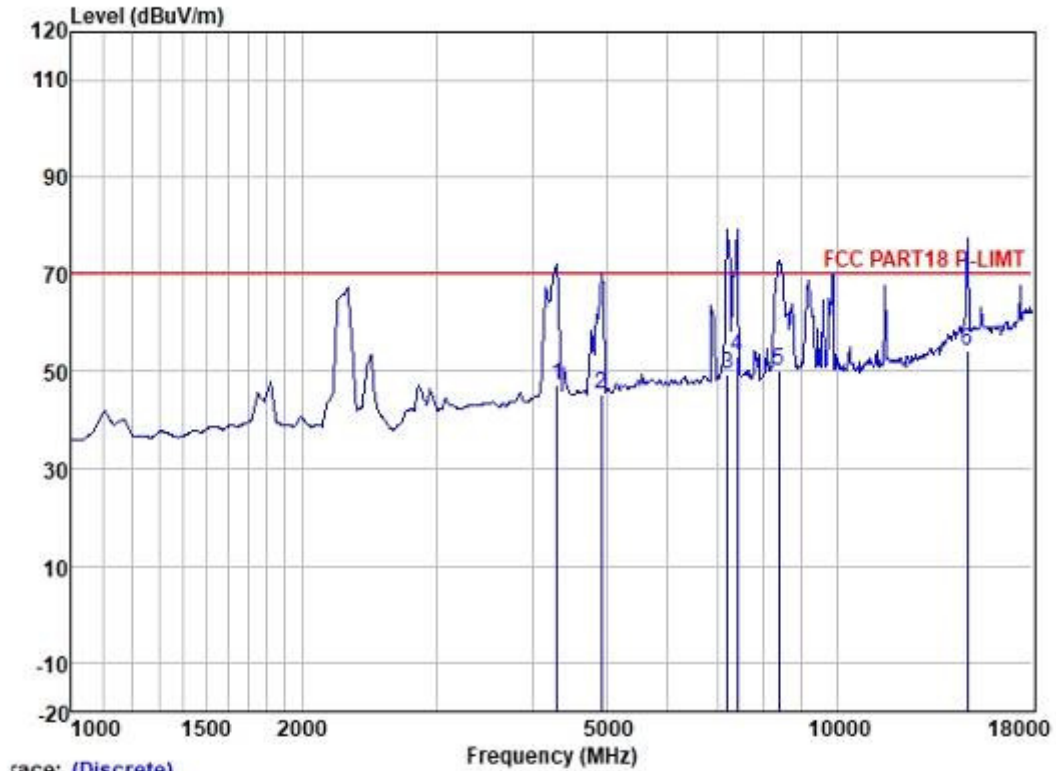
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

$$\text{Level} = \text{Read Level} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamp Factor}$$



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



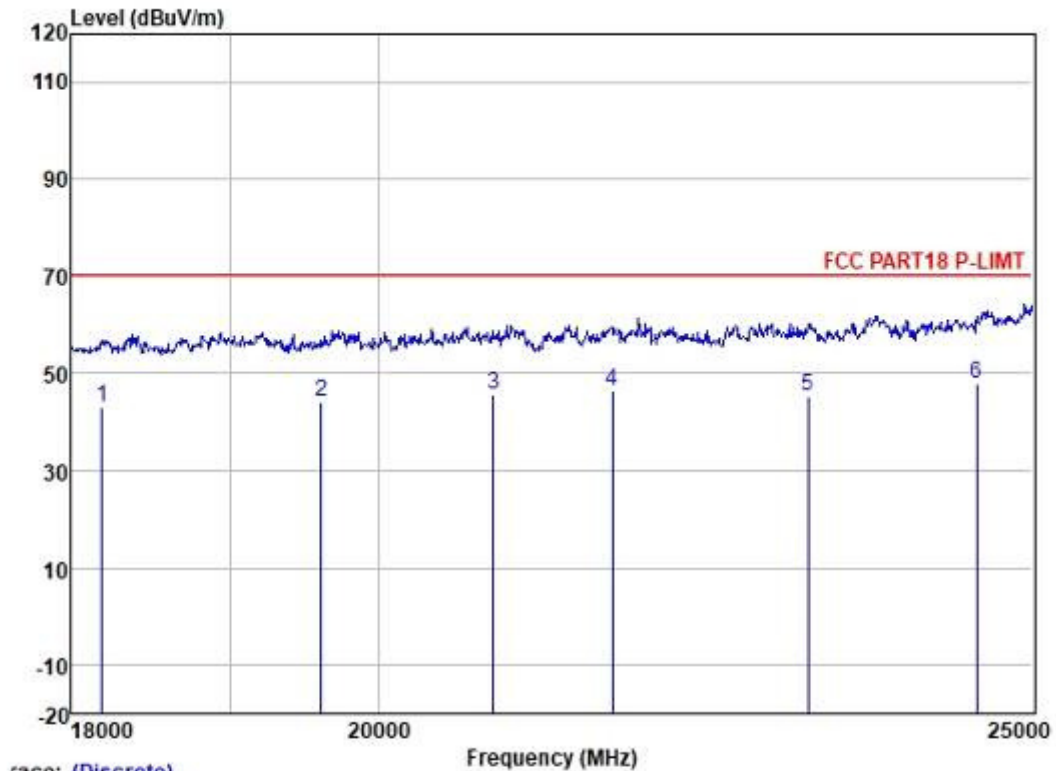
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4304.400	47.18	32.31	4.65	36.91	47.23	70.39	-23.16	HORIZONTAL Average
2	4916.490	43.50	33.38	5.58	36.95	45.51	70.39	-24.88	HORIZONTAL Average
3	7200.309	44.43	35.98	5.98	36.93	49.46	70.39	-20.93	HORIZONTAL Average
4	7411.461	47.85	36.07	6.20	36.92	53.20	70.39	-17.19	HORIZONTAL Average
5	8392.292	43.83	36.54	6.61	36.93	50.05	70.39	-20.34	HORIZONTAL Average
6	14830.960	39.94	41.44	8.53	35.62	54.29	70.39	-16.10	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1

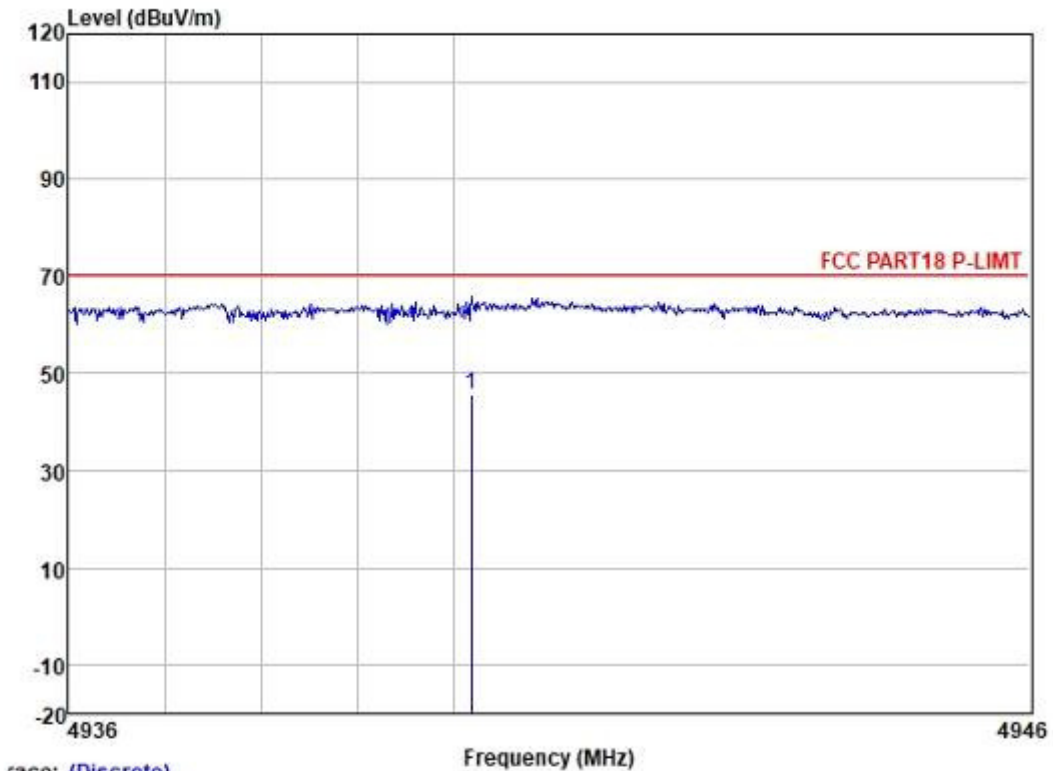


Line	Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol/Phase	Remark
1	18190.220	24.22	37.91	16.55	35.60	43.08	70.39	-27.31	HORIZONTAL	Average
2	19604.960	24.48	38.00	17.17	35.60	44.05	70.39	-26.34	HORIZONTAL	Average
3	20792.350	25.53	37.91	17.91	35.49	45.86	70.39	-24.53	HORIZONTAL	Average
4	21656.800	25.41	38.12	18.45	35.34	46.64	70.39	-23.75	HORIZONTAL	Average
5	23157.860	22.18	39.60	19.33	35.79	45.32	70.39	-25.07	HORIZONTAL	Average
6	24528.180	23.66	39.44	20.86	36.12	47.84	70.39	-22.55	HORIZONTAL	Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



Trace: (Discrete)

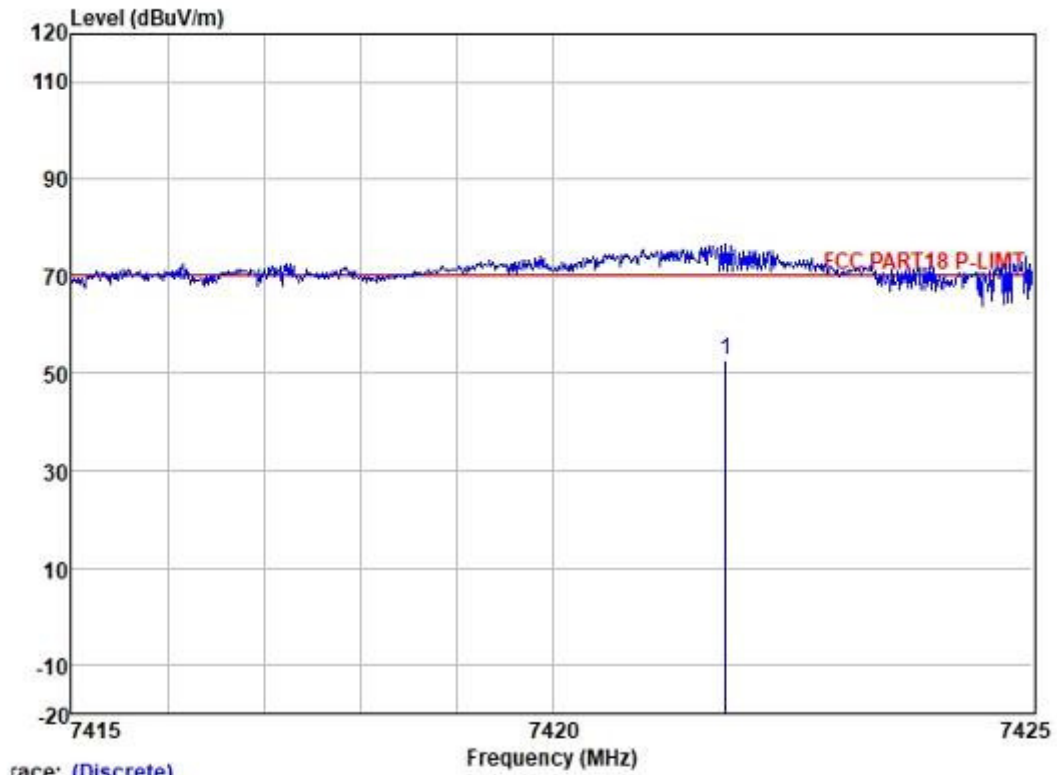
Trace	Freq	ReadAntenna Level	ReadAntenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4940.188	43.62	33.42	5.62	36.95	45.71	70.39	-24.68	HORIZONTAL	Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



Trace: (Discrete)

Trace	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	7421.809	47.34	36.07	6.20	36.92	52.69	70.39	-17.70 HORIZONTAL Average

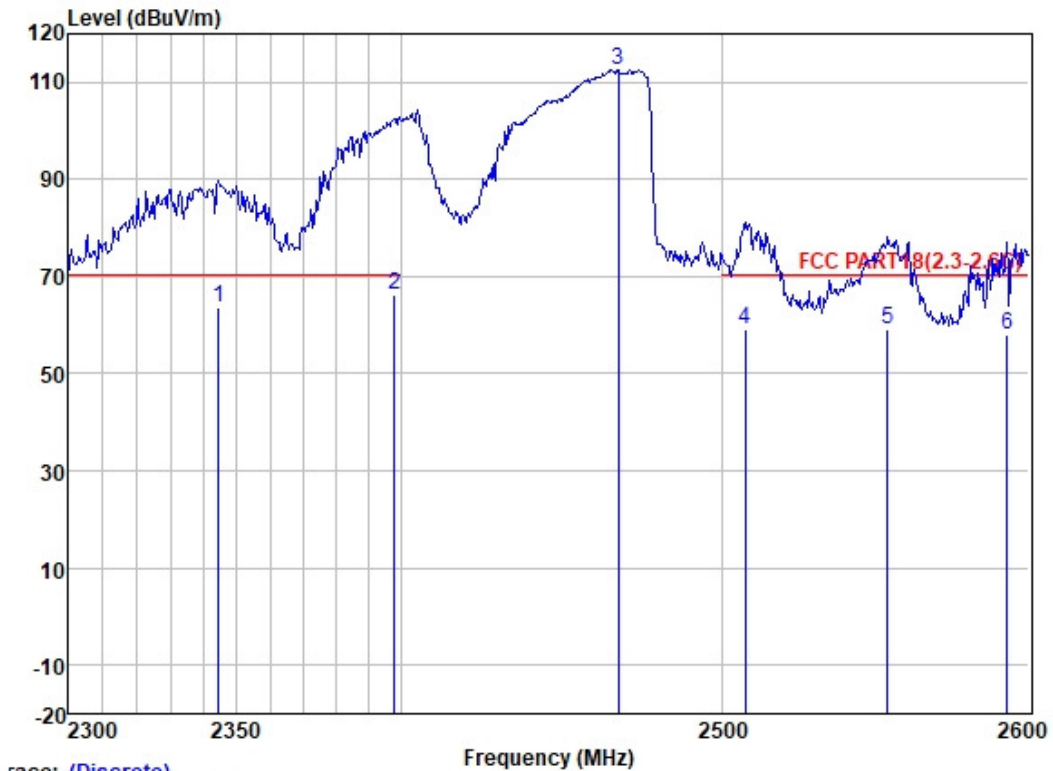


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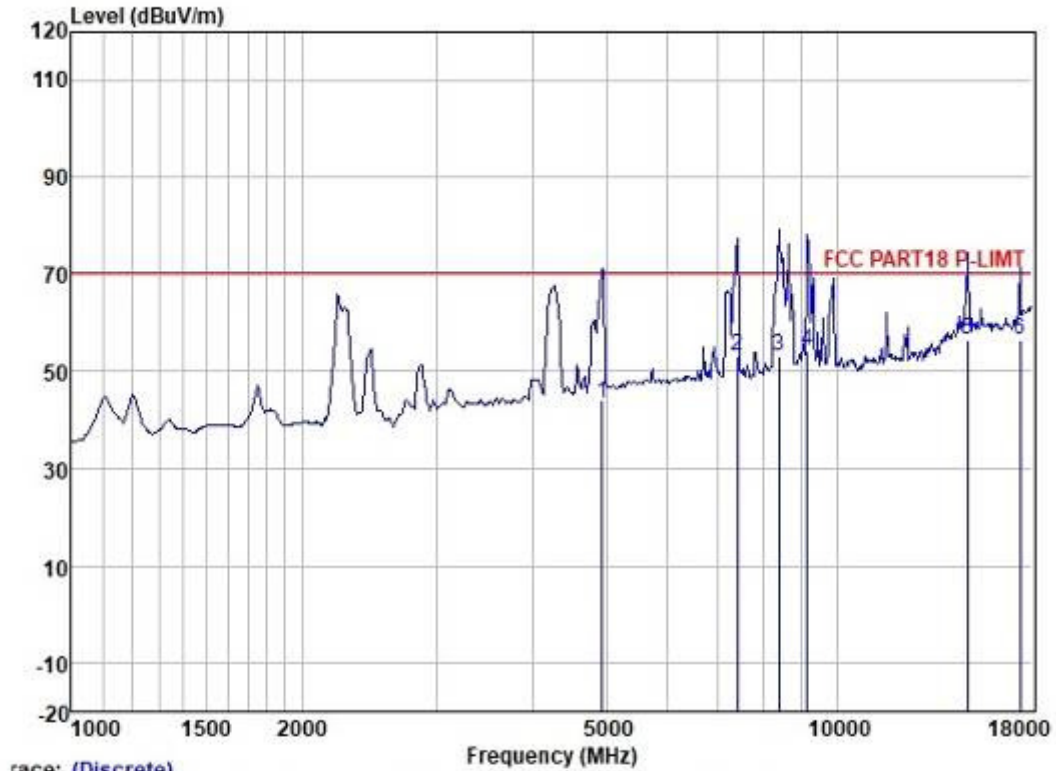
Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2344.413	31.56	28.70	3.38	0.00	63.64	70.39	-6.75	HORIZONTAL Average
2	2397.607	34.07	28.83	3.50	0.00	66.40	70.39	-3.99	HORIZONTAL Average
3	2467.086	80.26	28.95	3.50	0.00	112.71	-----	-----	HORIZONTAL Peak
4	2507.337	26.74	29.01	3.41	0.00	59.16	70.39	-11.23	HORIZONTAL Average
5	2553.248	26.52	29.07	3.45	0.00	59.04	70.39	-11.35	HORIZONTAL Average
6	2592.679	25.56	29.15	3.49	0.00	58.20	70.39	-12.19	HORIZONTAL Average



Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



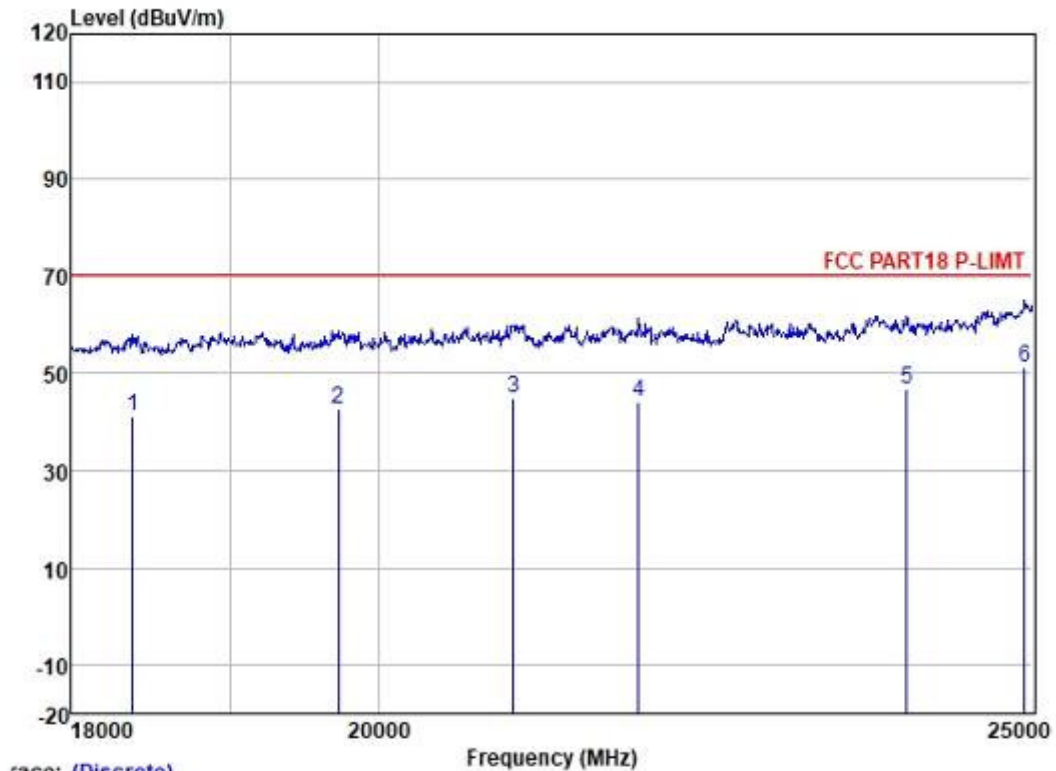
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4941.094	41.09	33.42	5.62	36.95	43.18	70.39	-27.21	HORIZONTAL Average
2	7420.318	46.91	36.07	6.20	36.92	52.26	70.39	-18.13	HORIZONTAL Average
3	8392.292	47.06	36.54	6.61	36.93	53.28	70.39	-17.11	HORIZONTAL Average
4	9152.479	46.75	37.05	7.44	37.04	54.20	70.39	-16.19	HORIZONTAL Average
5	14830.960	42.15	41.44	8.53	35.62	56.50	70.39	-13.89	HORIZONTAL Average
6	17336.200	39.49	42.49	10.39	35.75	56.62	70.39	-13.77	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2

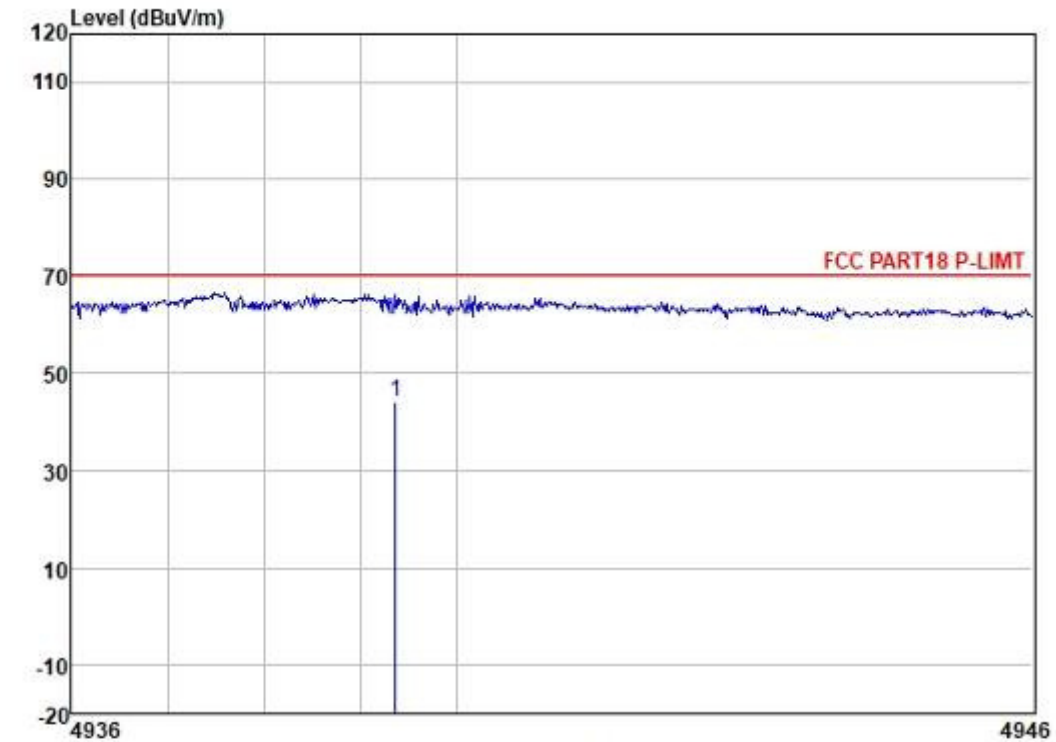


Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18382.440	22.14	37.93	16.62	35.60	41.09	70.39	-29.30	HORIZONTAL Average
2	19721.230	23.21	38.00	17.22	35.60	42.83	70.39	-27.56	HORIZONTAL Average
3	20936.280	24.61	37.90	17.97	35.45	45.03	70.39	-25.36	HORIZONTAL Average
4	21849.740	22.86	38.17	18.55	35.31	44.27	70.39	-26.12	HORIZONTAL Average
5	23946.970	22.97	39.60	20.37	36.10	46.84	70.39	-23.55	HORIZONTAL Average
6	24934.380	26.95	39.31	21.17	36.14	51.29	70.39	-19.10	HORIZONTAL Average



Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4939.368	42.12	33.42	5.62	36.95	44.21	70.39	-26.18	HORIZONTAL	Average

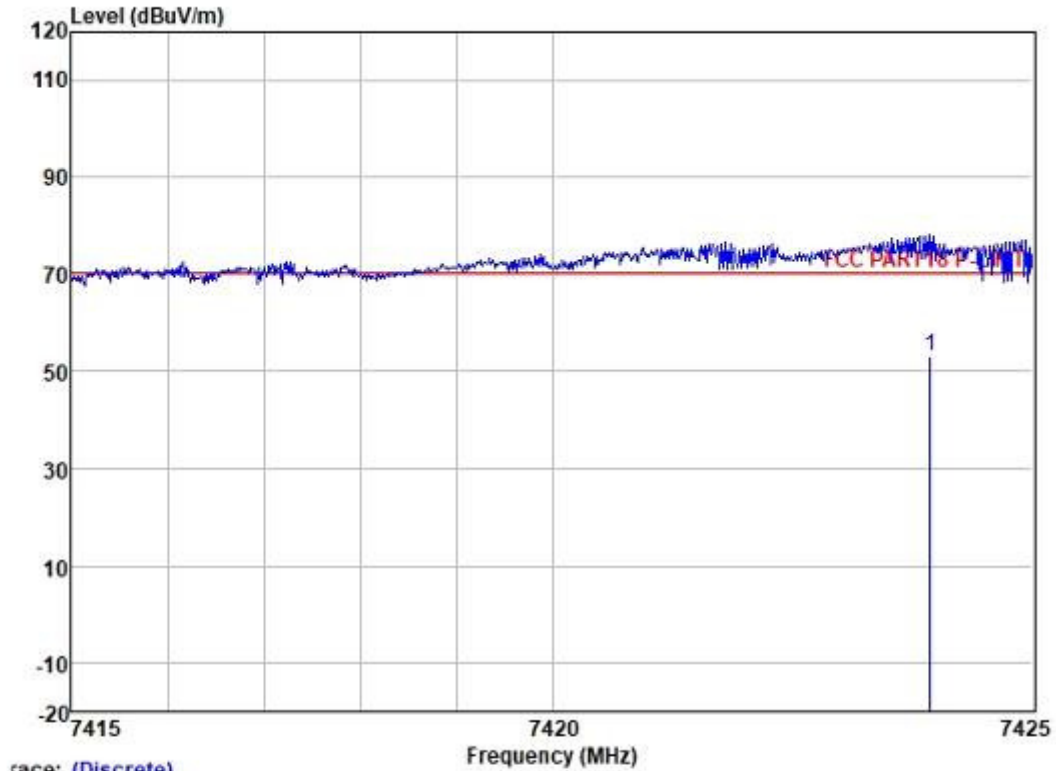


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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



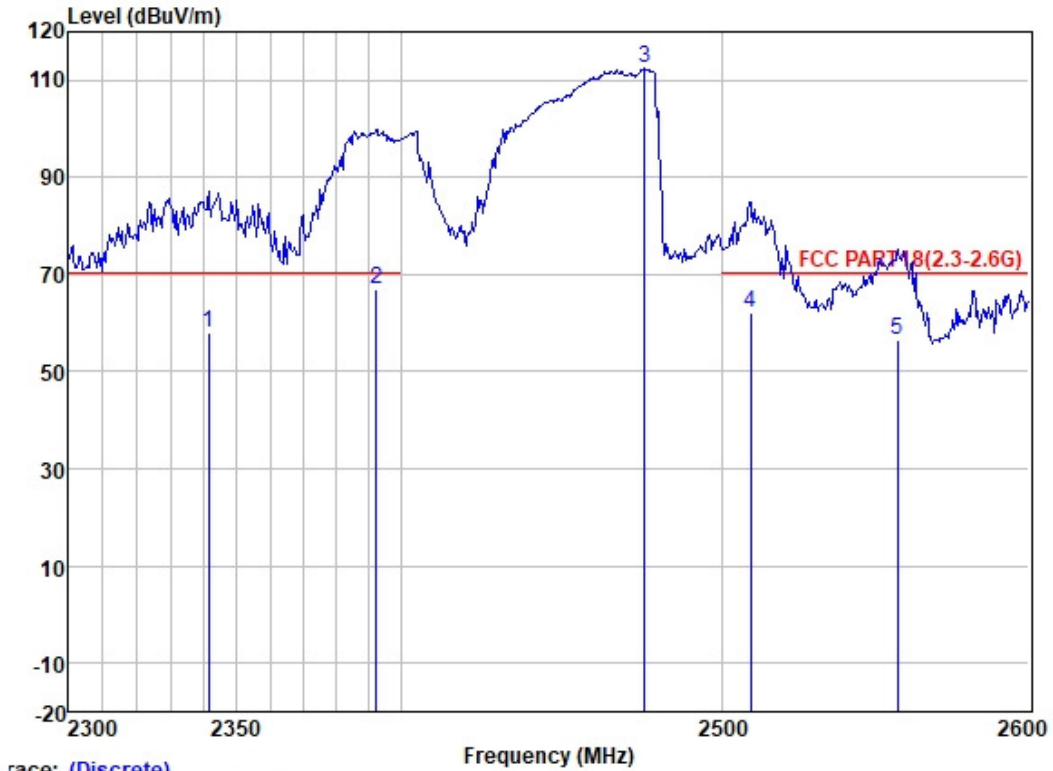
Trace: (Discrete)

Trace	Freq	Level	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	7423.939	47.71	36.08	6.22	36.92	53.09	70.39	-17.30	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2

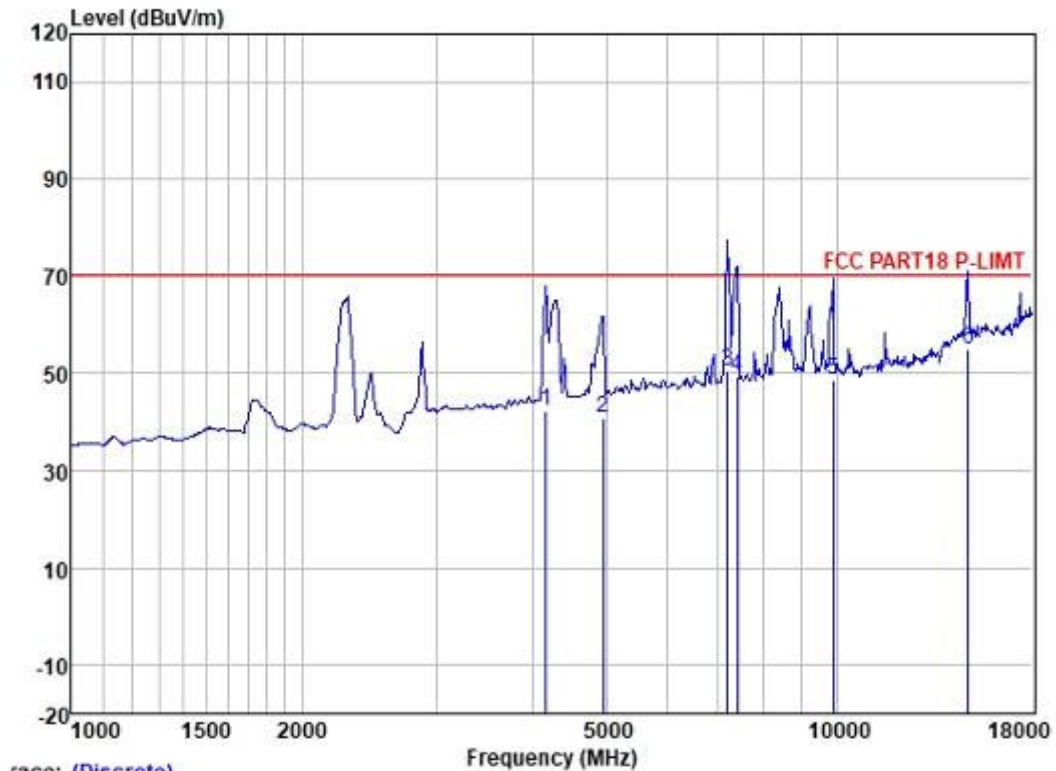


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2341.541	26.16	28.68	3.37	0.00	58.21	70.39	-12.18	HORIZONTAL Average	
2	2392.029	34.66	28.82	3.49	0.00	66.97	70.39	-3.42	HORIZONTAL Average	
3	2475.570	79.88	28.97	3.60	0.00	112.45	-----	-----	HORIZONTAL Peak	
4	2509.182	29.55	29.01	3.41	0.00	61.97	70.39	-8.42	HORIZONTAL Average	
5	2556.694	23.84	29.08	3.46	0.00	56.38	70.39	-14.01	HORIZONTAL Average	



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



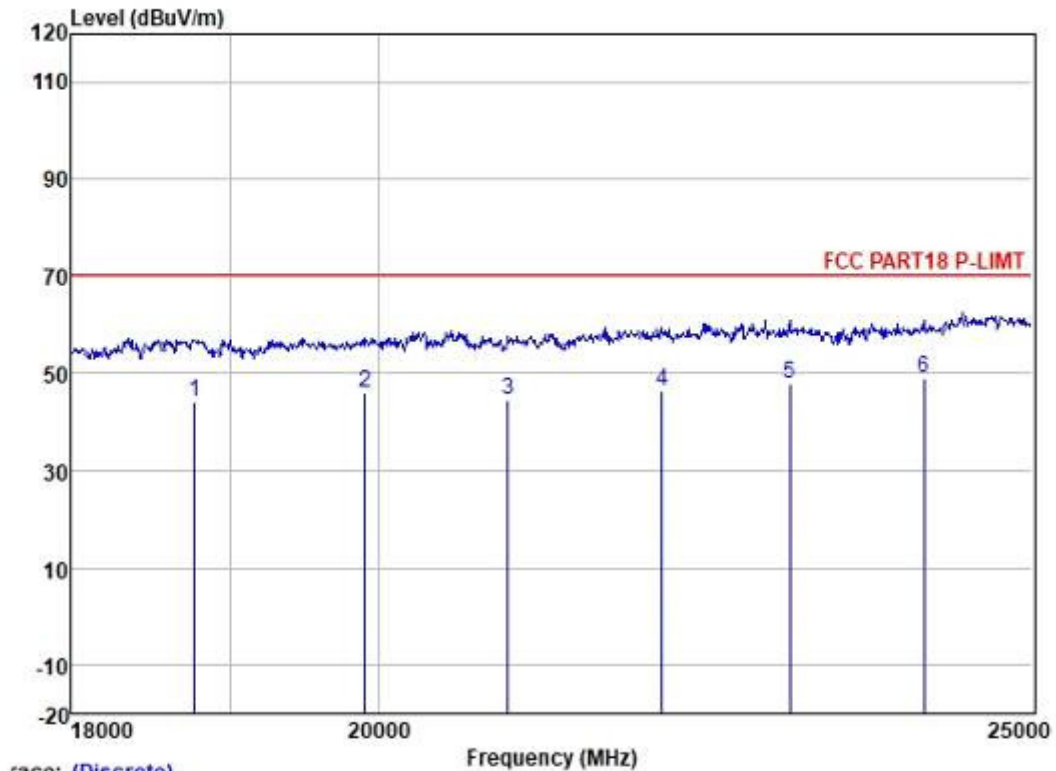
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4169.698	42.34	32.19	4.60	36.90	42.23	70.39	-28.16	VERTICAL Average
2	4944.993	38.64	33.42	5.62	36.96	40.72	70.39	-29.67	VERTICAL Average
3	7200.309	45.45	35.98	5.98	36.93	50.48	70.39	-19.91	VERTICAL Average
4	7411.461	43.95	36.07	6.20	36.92	49.30	70.39	-21.09	VERTICAL Average
5	9895.349	41.76	37.12	6.97	37.09	48.76	70.39	-21.63	VERTICAL Average
6	14873.890	40.58	41.46	8.54	35.66	54.92	70.39	-15.47	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1

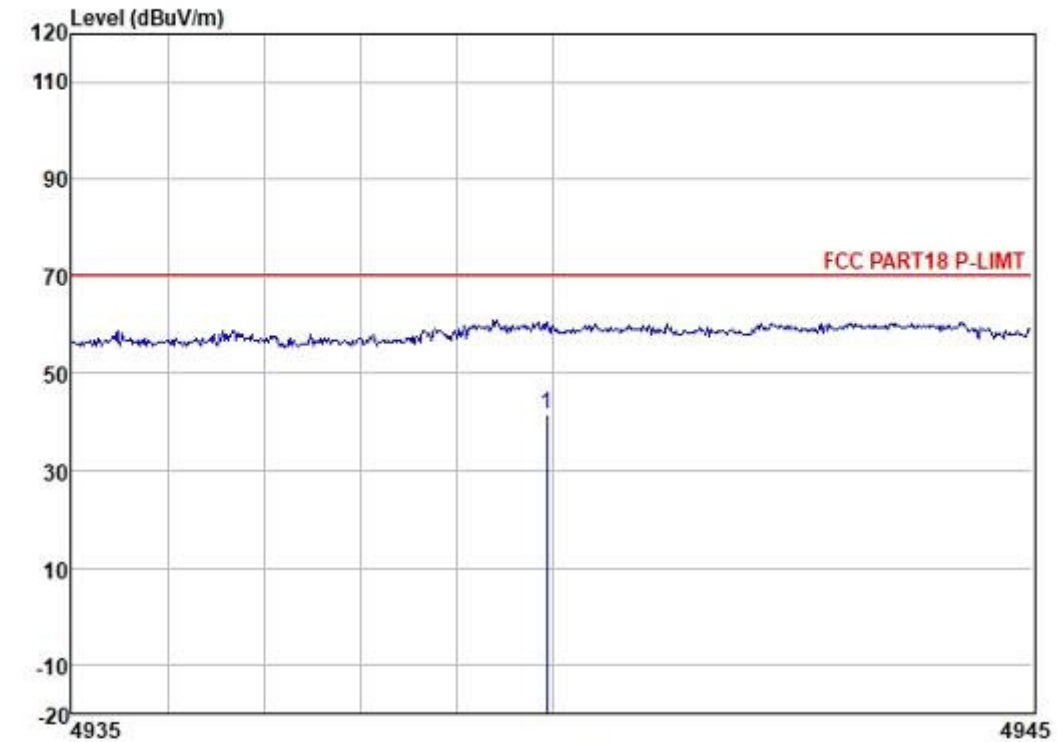


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	18773.010	24.84	37.99	16.84	35.60	44.07	70.39	-26.32	VERTICAL	Average
2	19896.930	26.56	38.00	17.27	35.60	46.23	70.39	-24.16	VERTICAL	Average
3	20895.060	24.36	37.91	17.96	35.47	44.76	70.39	-25.63	VERTICAL	Average
4	22029.930	24.79	38.24	18.61	35.30	46.34	70.39	-24.05	VERTICAL	Average
5	23013.770	24.78	39.60	19.21	35.75	47.84	70.39	-22.55	VERTICAL	Average
6	24088.990	25.21	39.58	20.45	36.11	49.13	70.39	-21.26	VERTICAL	Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4939.947	39.56	33.42	5.62	36.95	41.65	70.39	-28.74	VERTICAL	Average

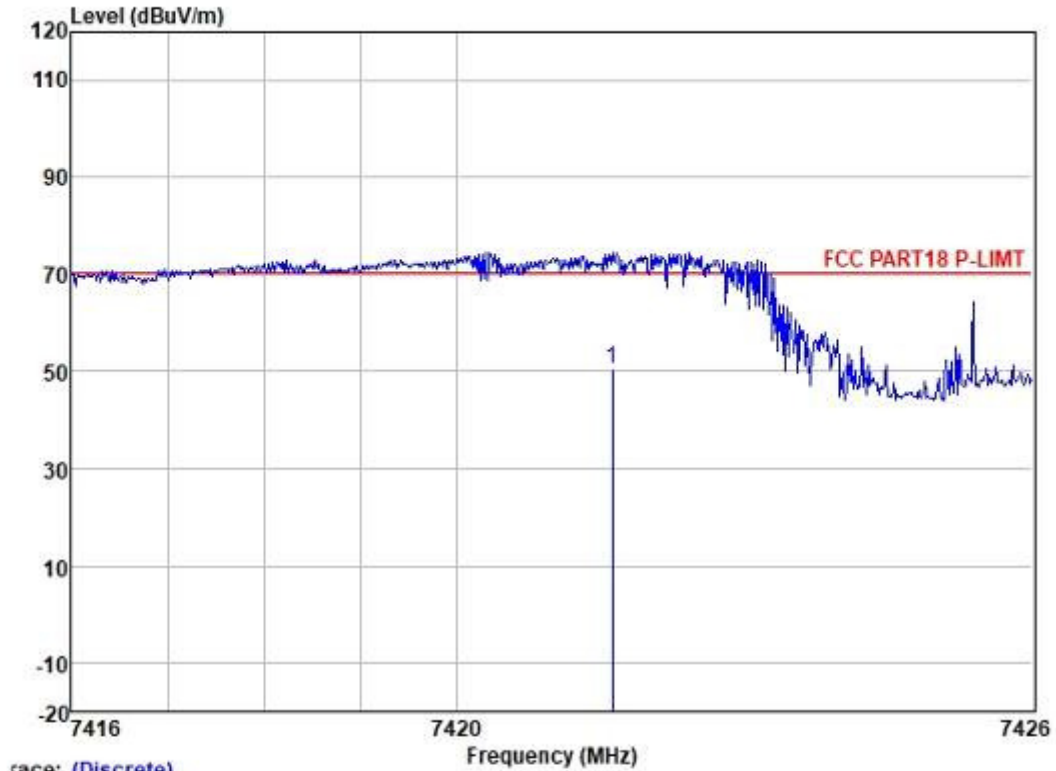


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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



Trace: (Discrete)

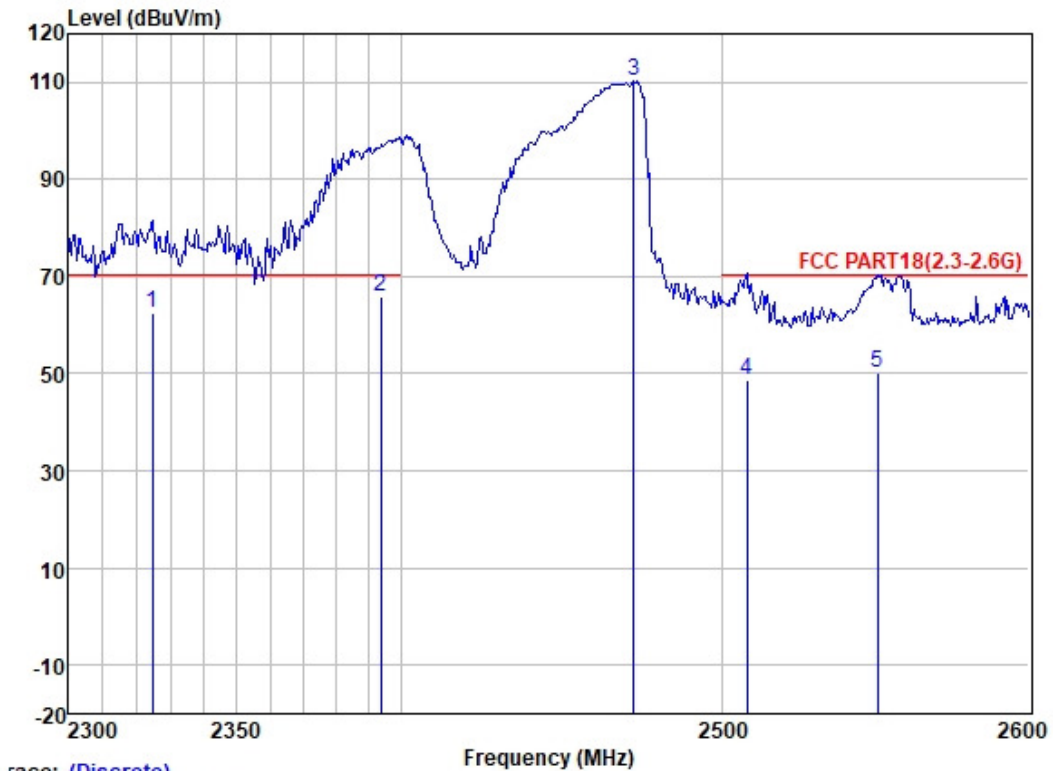
Trace	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	7421.628	45.05	36.07	6.20	36.92	50.40	70.39	-19.99	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1

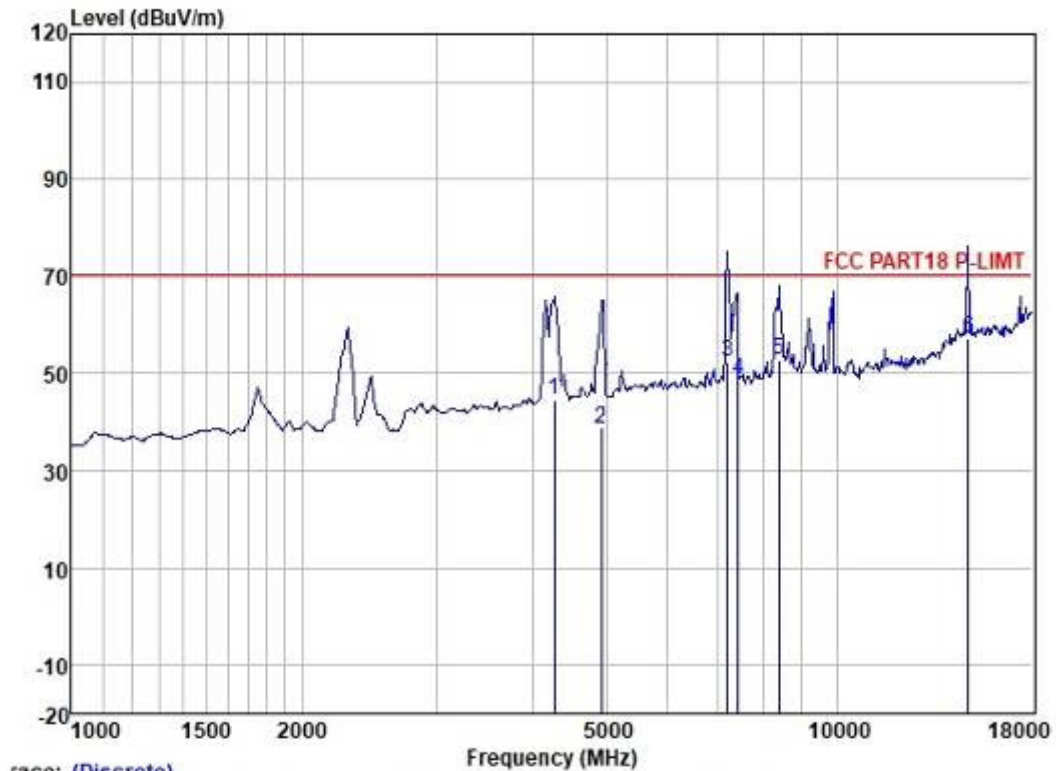


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2324.664	30.59	28.64	3.34	0.00	62.57	70.39	-7.82	VERTICAL	Average
2	2393.496	33.45	28.82	3.49	0.00	65.76	70.39	-4.63	VERTICAL	Average
3	2471.930	77.71	28.96	3.55	0.00	110.22	-----	-----	VERTICAL	Peak
4	2507.952	16.32	29.01	3.41	0.00	48.74	70.39	-21.65	VERTICAL	Average
5	2550.120	17.80	29.07	3.45	0.00	50.32	70.39	-20.07	VERTICAL	Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



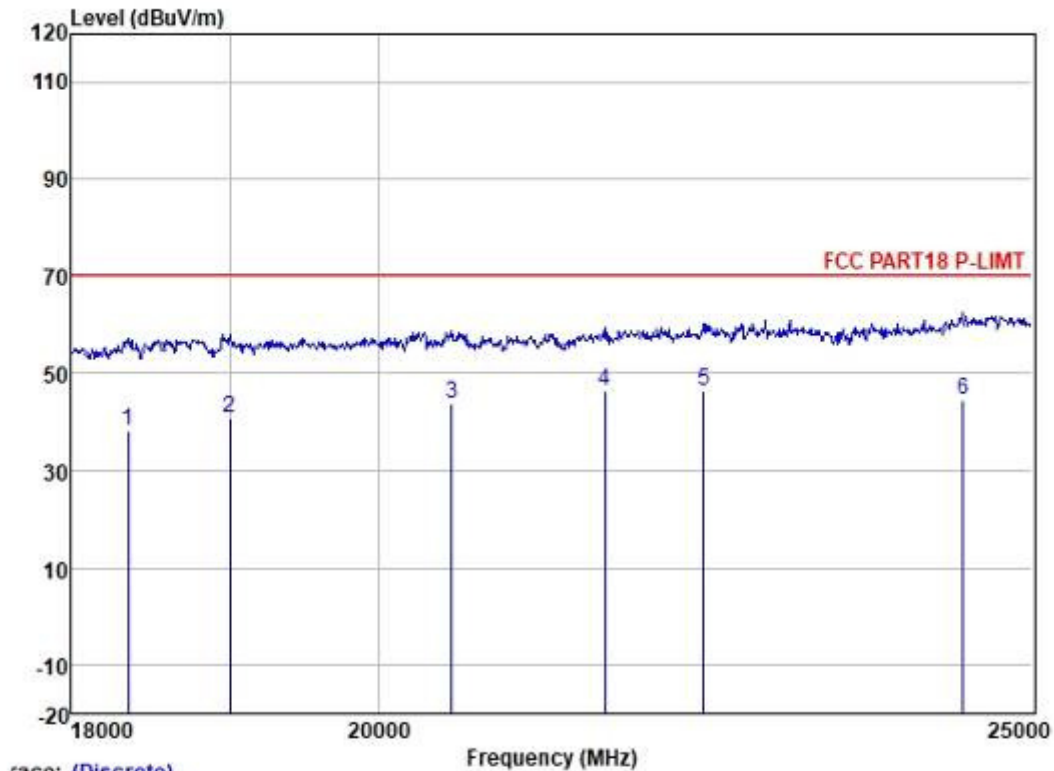
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4267.237	44.76	32.27	4.63	36.91	44.75	70.39	-25.64	VERTICAL Average
2	4940.693	36.20	33.42	5.62	36.95	38.29	70.39	-32.10	VERTICAL Average
3	7200.309	47.32	35.98	5.98	36.93	52.35	70.39	-18.04	VERTICAL Average
4	7421.320	43.44	36.07	6.20	36.92	48.79	70.39	-21.60	VERTICAL Average
5	8392.292	46.76	36.54	6.61	36.93	52.98	70.39	-17.41	VERTICAL Average
6	14873.890	42.87	41.46	8.54	35.66	57.21	70.39	-13.18	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2

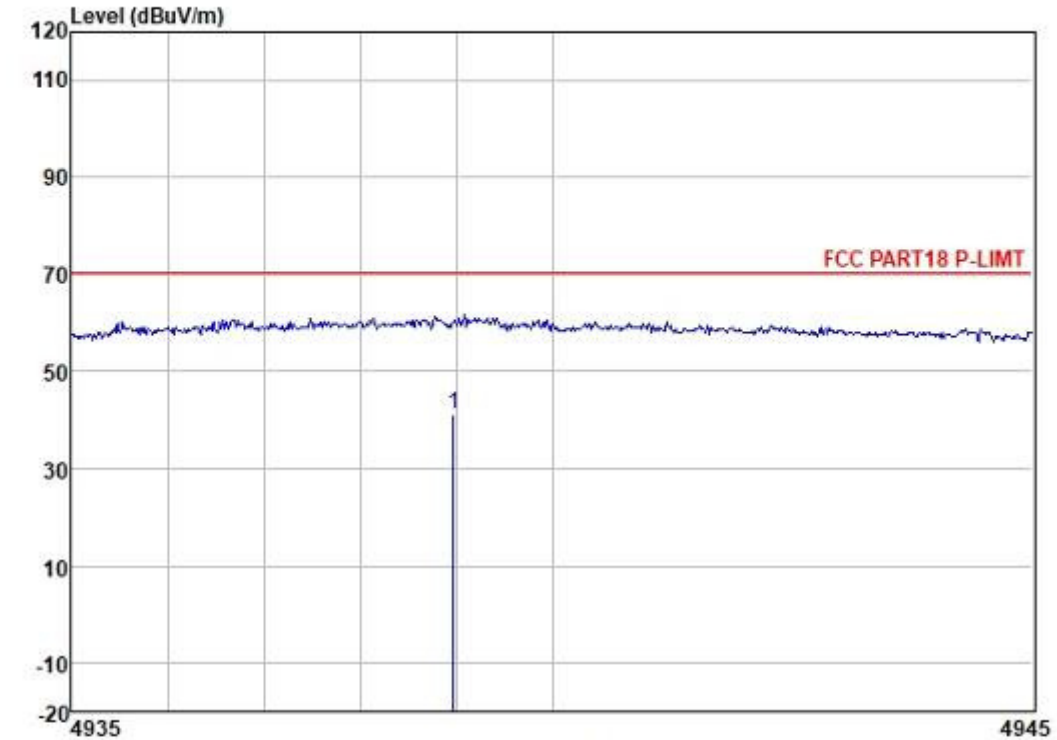


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	18352.270	19.34	37.93	16.61	35.60	38.28	70.39	-32.11	VERTICAL	Average
2	19002.580	21.69	38.00	16.90	35.60	40.99	70.39	-29.40	VERTICAL	Average
3	20500.710	23.77	37.95	17.67	35.54	43.85	70.39	-26.54	VERTICAL	Average
4	21599.960	25.18	38.11	18.40	35.34	46.35	70.39	-24.04	VERTICAL	Average
5	22343.320	24.36	38.59	18.77	35.39	46.33	70.39	-24.06	VERTICAL	Average
6	24415.630	20.36	39.48	20.69	36.12	44.41	70.39	-25.98	VERTICAL	Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4938.978	39.32	33.42	5.62	36.95	41.41	70.39	-28.98	VERTICAL	Average

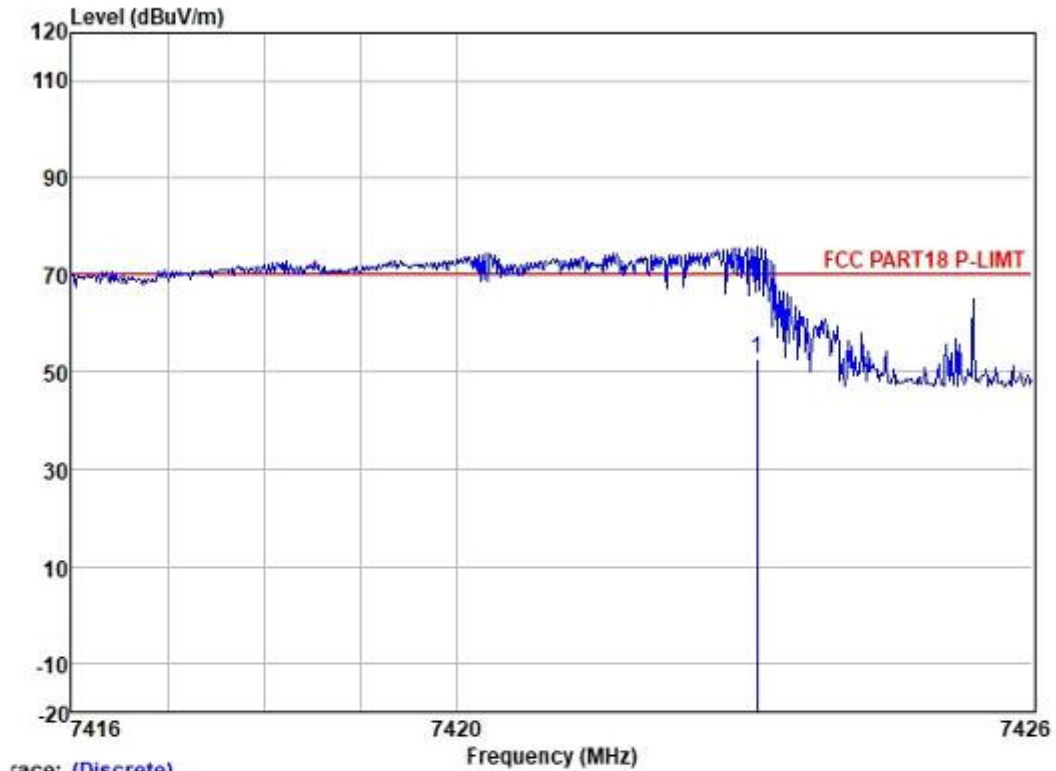


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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



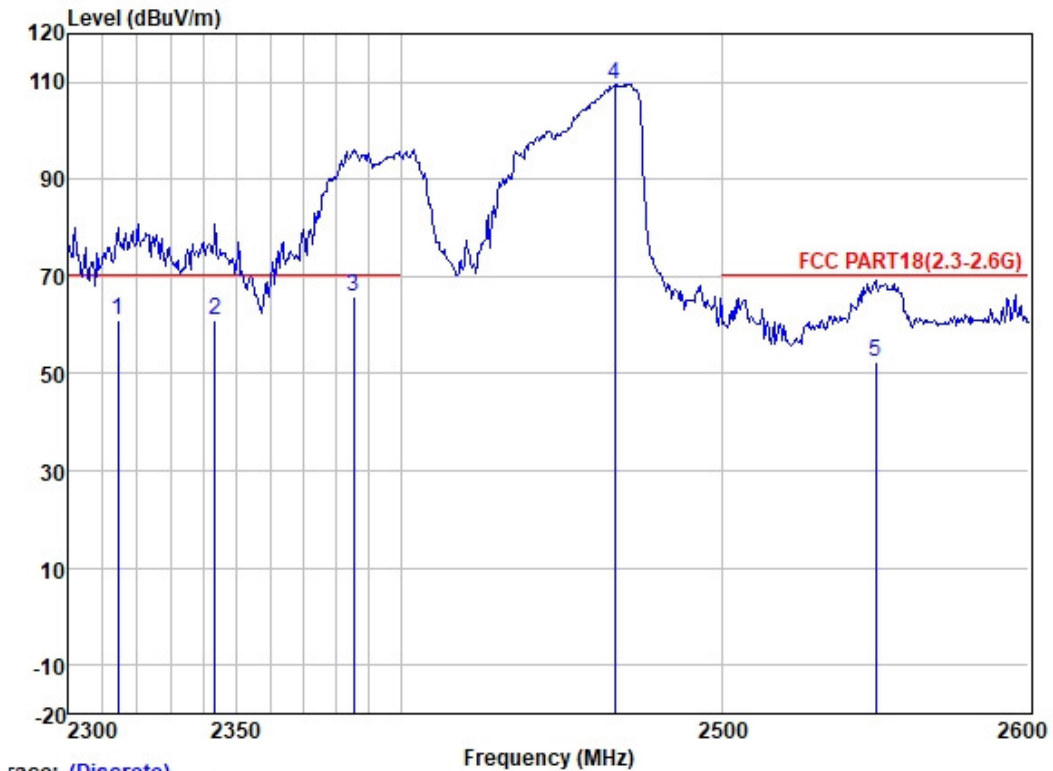
Trace: (Discrete)

Trace	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit	Over	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	7423.139	47.45	36.08	6.22	36.92	52.83	70.39	-17.56	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



race: (Discrete)										
Read	Antenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2314.426	29.17	28.60	3.32	0.00	61.09	70.39	-9.30	VERTICAL	Average
2	2343.264	28.77	28.70	3.38	0.00	60.85	70.39	-9.54	VERTICAL	Average
3	2385.293	33.73	28.80	3.48	0.00	66.01	70.39	-4.38	VERTICAL	Average
4	2465.876	77.12	28.95	3.50	0.00	109.57	-----	-----	VERTICAL	Peak
5	2549.494	19.75	29.07	3.45	0.00	52.27	70.39	-18.12	VERTICAL	Average



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6.7 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 9kHz to 30MHz
 Measurement Distance: 10m
 Detector: Peak for pre-scan, Average for the final result
 (100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)

Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(µV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =875.3 and 874.9 W according to clause 6.2.2

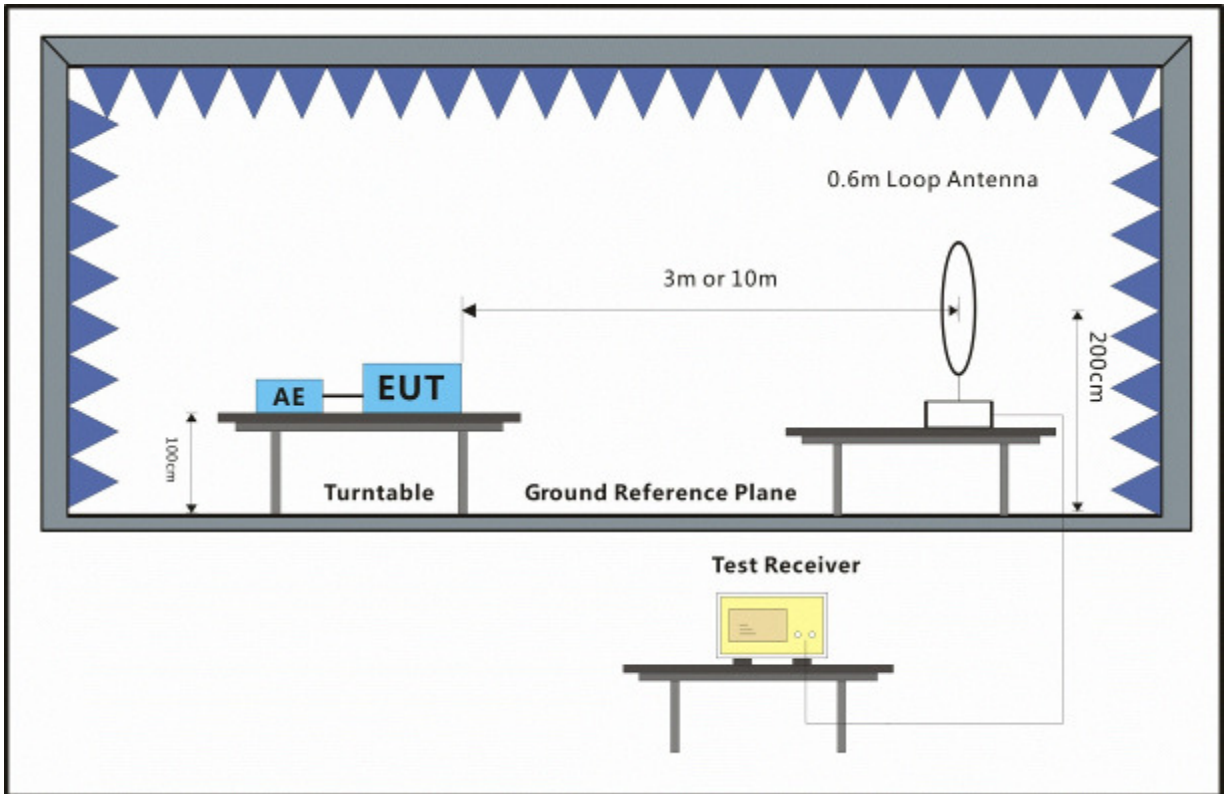
Limit=20lg(25*SQRT(power/500))+20lg(300/10)=59.93dBuV/m @ 10m distance.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave mode with maximum power.
 b: Test the EUT in microwave mode with middle power.
 c: Test the EUT in microwave mode with lowest power.
 The worst case for final test:
 a: Test the EUT in microwave mode with maximum power.



6.7.2 Test Setup Diagram



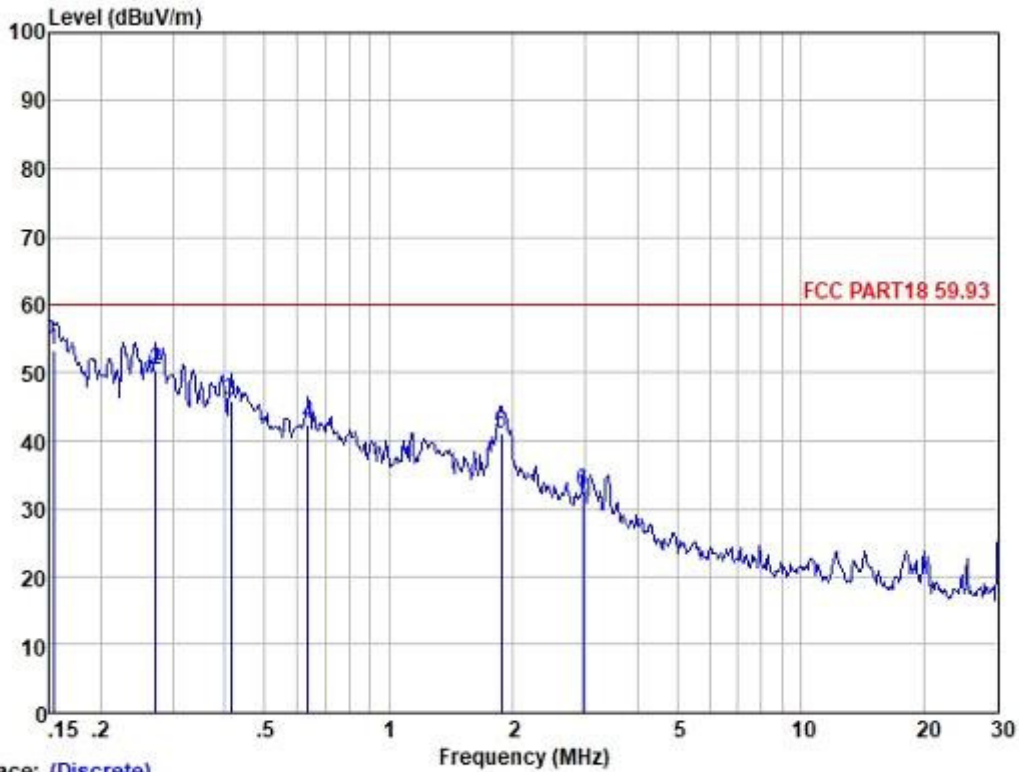
6.7.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



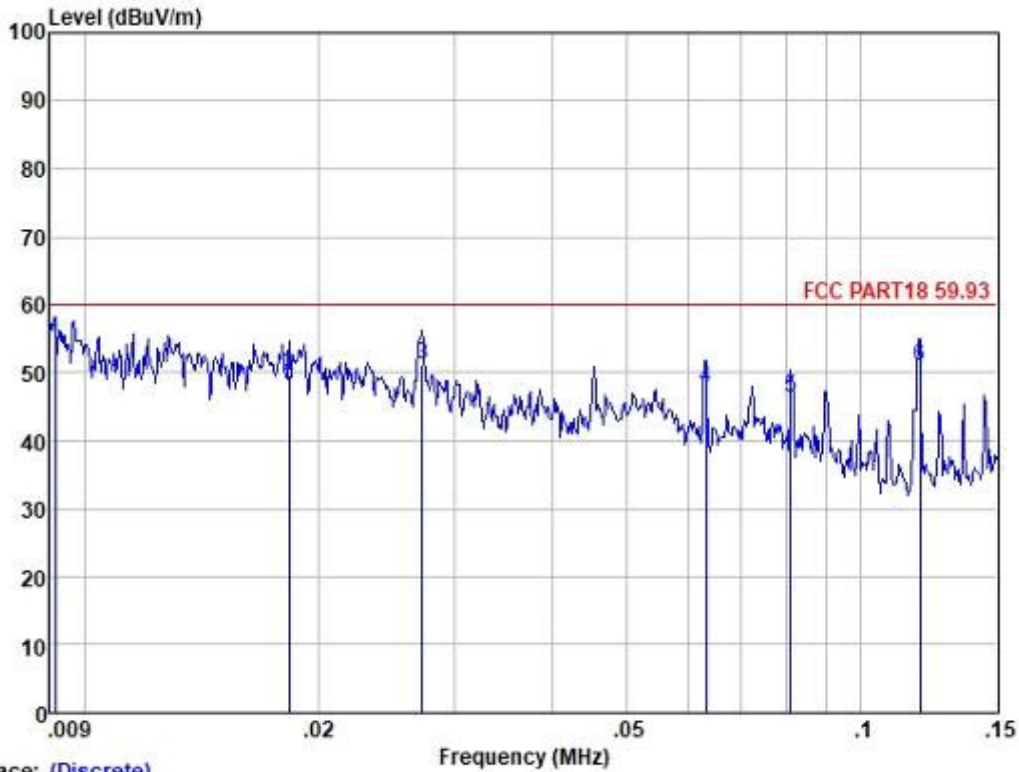
Trace: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.153	70.47	12.40	0.00	29.48	53.39	59.93	-6.54	HORIZONTAL Average
2	0.272	67.40	12.29	0.10	29.47	50.32	59.93	-9.61	HORIZONTAL Average
3	0.415	63.07	12.13	0.10	29.37	45.93	59.93	-14.00	HORIZONTAL Average
4	0.637	59.56	12.17	0.10	29.34	42.49	59.93	-17.44	HORIZONTAL Average
5	1.878	57.73	12.58	0.10	29.29	41.12	59.93	-18.81	HORIZONTAL Average
6	2.962	49.55	12.01	0.20	29.27	32.49	59.93	-27.44	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 1



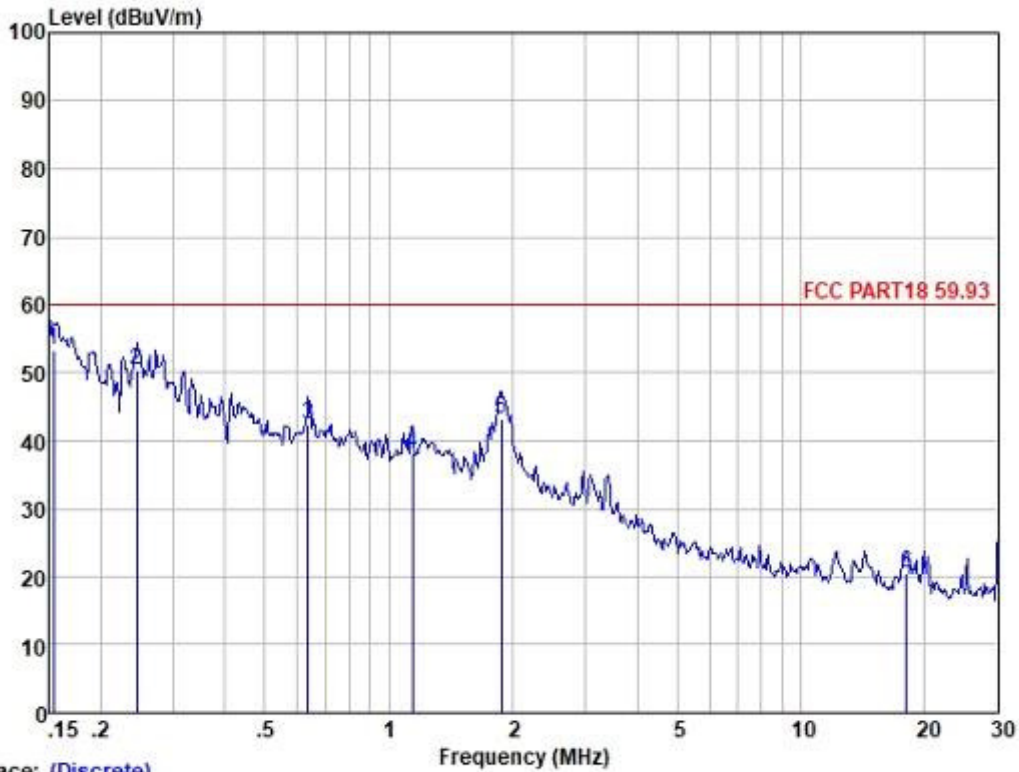
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	61.93	21.60	0.00	29.50	54.03	59.93	-5.90	HORIZONTAL Average
2	0.018	62.64	16.55	0.00	29.49	49.70	59.93	-10.23	HORIZONTAL Average
3	0.027	65.40	15.36	0.00	29.47	51.29	59.93	-8.64	HORIZONTAL Average
4	0.063	64.60	12.44	0.00	29.43	47.61	59.93	-12.32	HORIZONTAL Average
5	0.081	63.44	12.40	0.00	29.42	46.42	59.93	-13.51	HORIZONTAL Average
6	0.119	68.04	12.40	0.00	29.43	51.01	59.93	-8.92	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



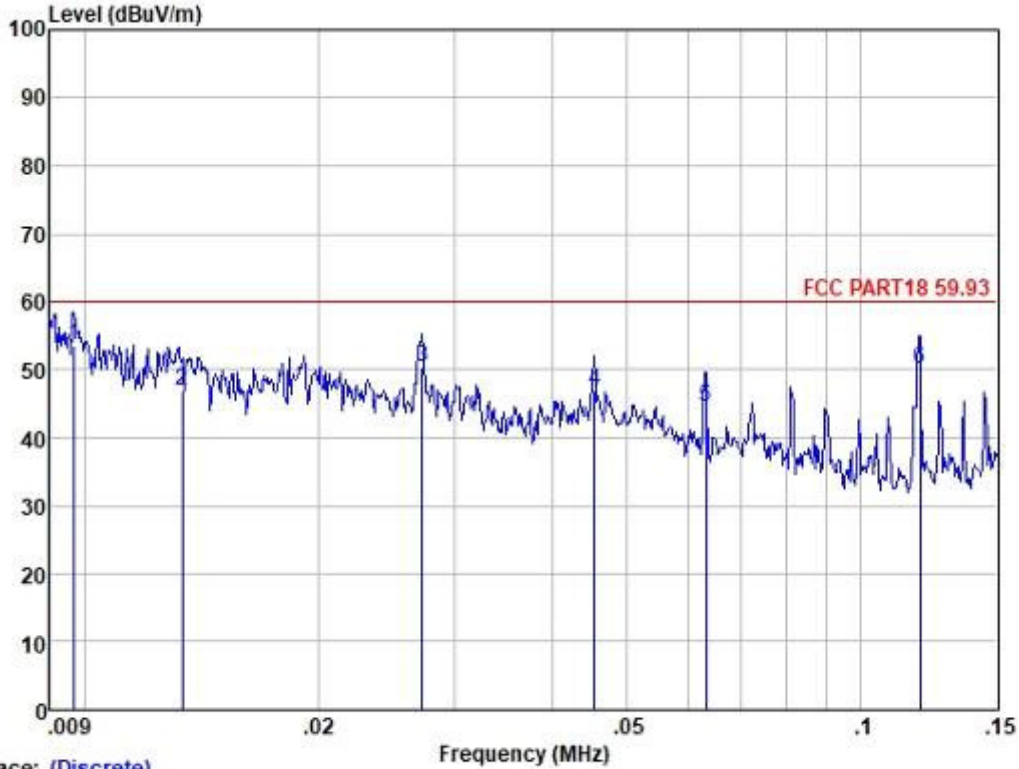
Trace: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.153	70.47	12.40	0.00	29.48	53.39	59.93	-6.54	HORIZONTAL Average
2	0.244	67.40	12.30	0.09	29.48	50.31	59.93	-9.62	HORIZONTAL Average
3	0.637	59.56	12.17	0.10	29.34	42.49	59.93	-17.44	HORIZONTAL Average
4	1.141	55.02	12.33	0.10	29.30	38.15	59.93	-21.78	HORIZONTAL Average
5	1.878	59.73	12.58	0.10	29.29	43.12	59.93	-16.81	HORIZONTAL Average
6	18.039	38.86	10.36	0.40	28.96	20.66	59.93	-39.27	HORIZONTAL Average



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Mode:a; Polarization:Horizontal; model BMO700 USC /A with IGBT 2



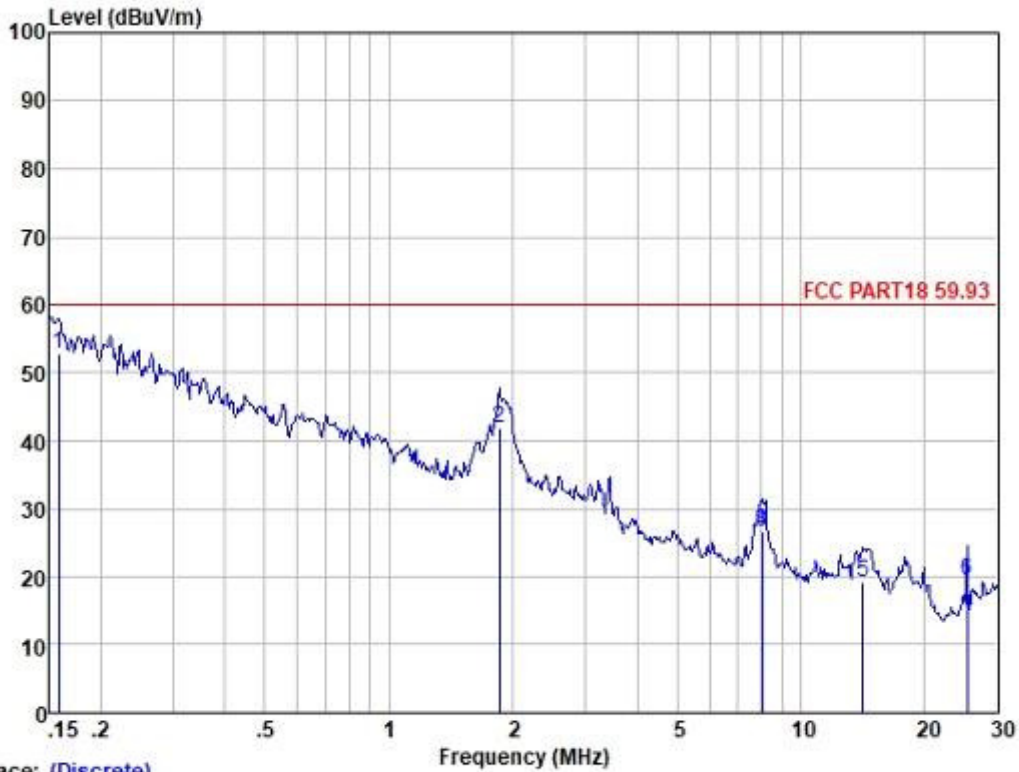
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	61.41	21.60	0.00	29.50	53.51	59.93	-6.42	HORIZONTAL Average
2	0.013	56.55	19.76	0.00	29.49	46.82	59.93	-13.11	HORIZONTAL Average
3	0.027	64.40	15.36	0.00	29.47	50.29	59.93	-9.64	HORIZONTAL Average
4	0.045	63.68	12.69	0.00	29.43	46.94	59.93	-12.99	HORIZONTAL Average
5	0.063	61.60	12.44	0.00	29.43	44.61	59.93	-15.32	HORIZONTAL Average
6	0.119	67.04	12.40	0.00	29.43	50.01	59.93	-9.92	HORIZONTAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



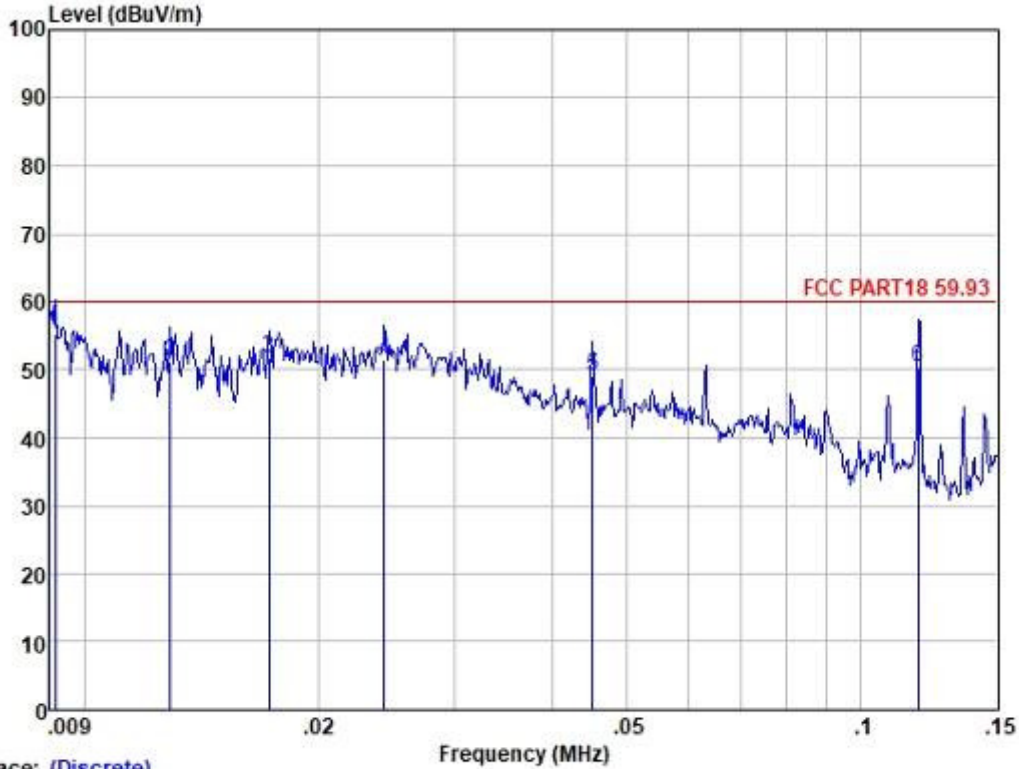
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.158	70.00	12.39	0.00	29.48	52.91	59.93	-7.02	VERTICAL Average
2	1.858	58.46	12.58	0.10	29.29	41.85	59.93	-18.08	VERTICAL Average
3	8.062	44.58	10.81	0.30	29.11	26.58	59.93	-33.35	VERTICAL Average
4	8.062	44.58	10.81	0.30	29.11	26.58	59.93	-33.35	VERTICAL Average
5	14.138	37.29	10.52	0.40	29.02	19.19	59.93	-40.74	VERTICAL Average
6	25.321	36.86	10.56	0.89	28.84	19.47	59.93	-40.46	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 1



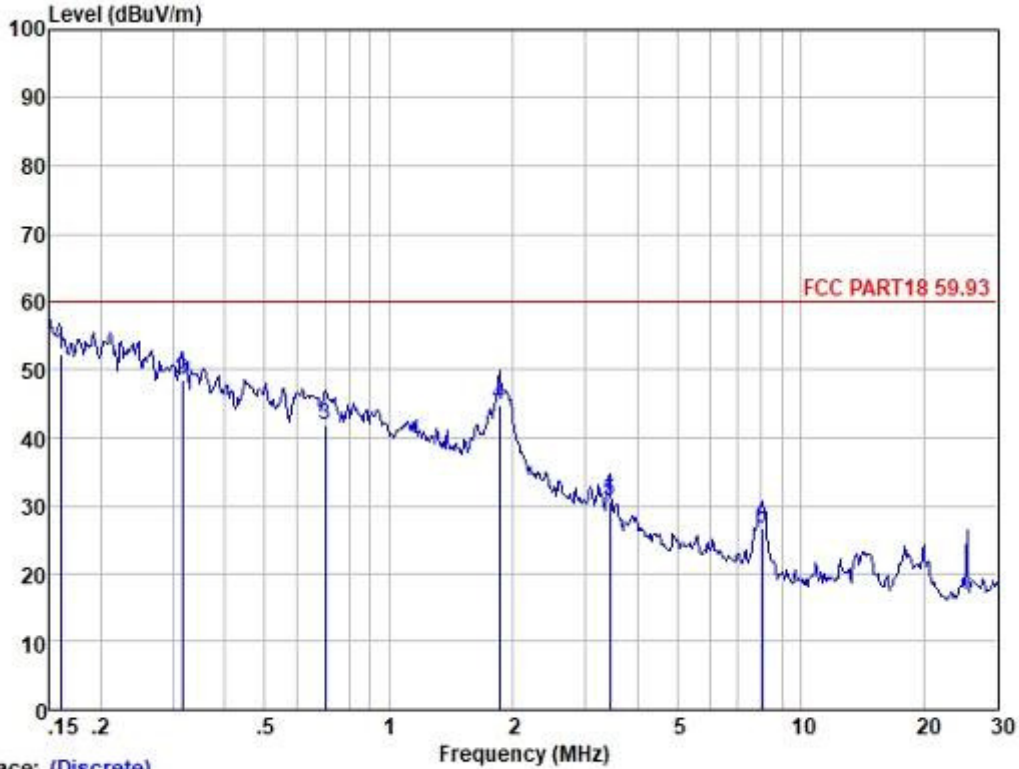
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	63.21	21.60	0.00	29.50	55.31	59.93	-4.62	VERTICAL Average
2	0.013	60.45	20.18	0.00	29.50	51.13	59.93	-8.80	VERTICAL Average
3	0.017	64.44	16.90	0.00	29.49	51.85	59.93	-8.08	VERTICAL Average
4	0.024	65.25	15.76	0.00	29.48	51.53	59.93	-8.40	VERTICAL Average
5	0.045	65.80	12.69	0.00	29.43	49.06	59.93	-10.87	VERTICAL Average
6	0.118	67.30	12.40	0.00	29.43	50.27	59.93	-9.66	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



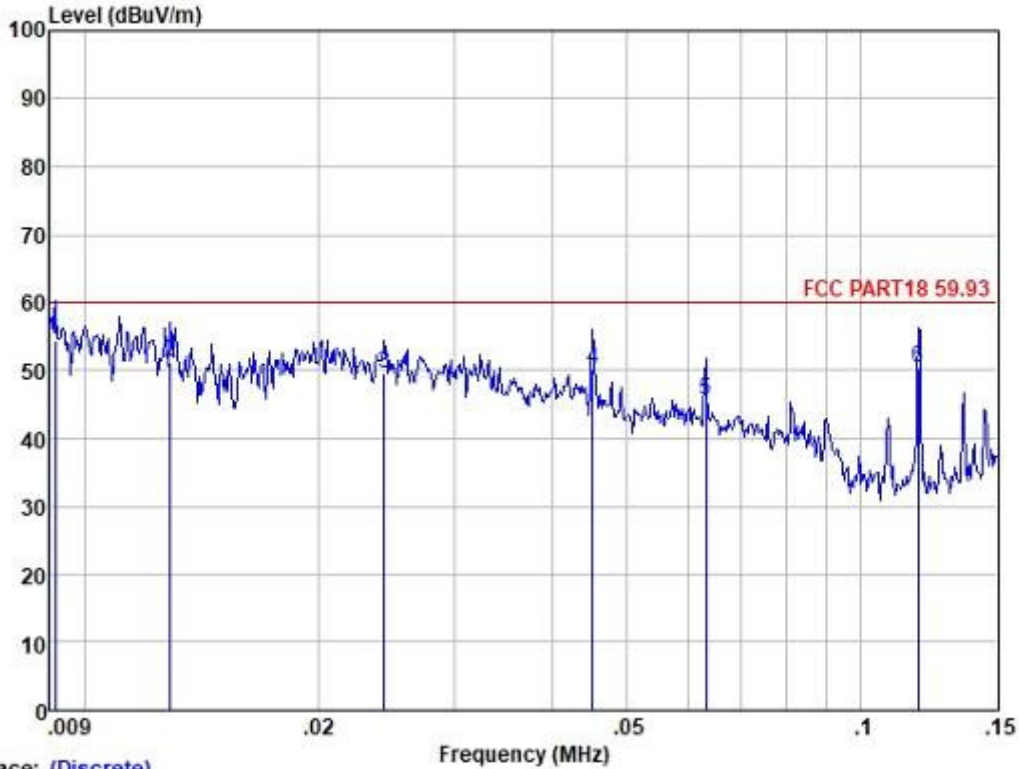
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.160	69.29	12.39	0.00	29.48	52.20	59.93	-7.73	VERTICAL Average
2	0.315	65.72	12.25	0.10	29.42	48.65	59.93	-11.28	VERTICAL Average
3	0.701	58.88	12.19	0.10	29.33	41.84	59.93	-18.09	VERTICAL Average
4	1.858	61.46	12.58	0.10	29.29	44.85	59.93	-15.08	VERTICAL Average
5	3.436	47.93	11.86	0.20	29.25	30.74	59.93	-29.19	VERTICAL Average
6	8.062	44.58	10.81	0.30	29.11	26.58	59.93	-33.35	VERTICAL Average



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Mode:a; Polarization:Vertical; model BMO700 USC /A with IGBT 2



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	62.21	21.60	0.00	29.50	54.31	59.93	-5.62	VERTICAL Average
2	0.013	60.45	20.18	0.00	29.50	51.13	59.93	-8.80	VERTICAL Average
3	0.024	63.25	15.76	0.00	29.48	49.53	59.93	-10.40	VERTICAL Average
4	0.045	66.80	12.69	0.00	29.43	50.06	59.93	-9.87	VERTICAL Average
5	0.063	62.61	12.44	0.00	29.43	45.62	59.93	-14.31	VERTICAL Average
6	0.118	67.30	12.40	0.00	29.43	50.27	59.93	-9.66	VERTICAL Average

--End of Report--



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