

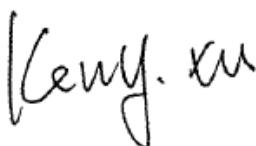
Report No.: SZEM200400203902
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TEST REPORT

Application No.:	SZEM2004002039CR
Applicant:	Mattel Asia Pacific Sourcing Ltd.
Address of Applicant:	13/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong
Manufacturer:	Mattel Asia Pacific Sourcing Ltd.
Address of Manufacturer:	13/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong
Factory:	Guangdong First Union animation Technology Co., Ltd
Address of Factory:	Xin Cun Village, Wan Jiang, Dong Guan City, Guangdong Province, China
Equipment Under Test (EUT):	
EUT Name:	RC SUPERCHARGED SHARK
Model No.:	GWB71R
Associated Toy Number:	GWB71
Trade mark:	Mattel
FCC ID:	PIYGWB71-20A5R
Standard(s) :	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2020-04-01
Date of Test:	2020-04-03 to 2020-04-08
Date of Issue:	2020-04-17

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny. Xu
EMC Laboratory Manager



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Shenzhen Branch Testing & Inspection Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-04-17		Original

Authorized for issue by:			
		 <hr/> Peter Geng /Project Engineer	
		 <hr/> Eric Fu /Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass

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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.7V 1500mAh rechargeable battery which charged from USB port
Cable:	USB charging line: 60cm, unshielded
Operation Frequency:	2412-2472MHz
Number of Channels:	61
Channel Spacing:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0 dBi
Remark:	The device contains two antennas: antenna 1 and antenna 2. All tests were conducted in both antennas transmitting simultaneously.

Operation Frequency each of channel								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel
1	2412	17	2428	33	2444	49	2460	
2	2413	18	2429	34	2445	50	2461	
3	2414	19	2430	35	2446	51	2462	
4	2415	20	2431	36	2447	52	2463	
5	2416	21	2432	37	2448	53	2464	
6	2417	22	2433	38	2449	54	2465	
7	2418	23	2434	39	2450	55	2466	
8	2419	24	2435	40	2451	56	2467	
9	2420	25	2436	41	2452	57	2468	
10	2421	26	2437	42	2453	58	2469	
11	2422	27	2438	43	2454	59	2470	
12	2423	28	2439	44	2455	60	2471	
13	2424	29	2440	45	2456	61	2472	
14	2425	30	2441	46	2457			
15	2426	31	2442	47	2458			
16	2427	32	2443	48	2459			

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4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
5	Temperature test	$\pm 1^\circ\text{C}$
6	Humidity test	$\pm 3\%$
7	Supply voltages	$\pm 1.5\%$
8	Time	$\pm 3\%$

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Field Strength of the Fundamental Signal/ Restricted Band Around Fundamental Frequency/ Radiated Emissions(above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions (30MHz-1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10

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Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

Limit:

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

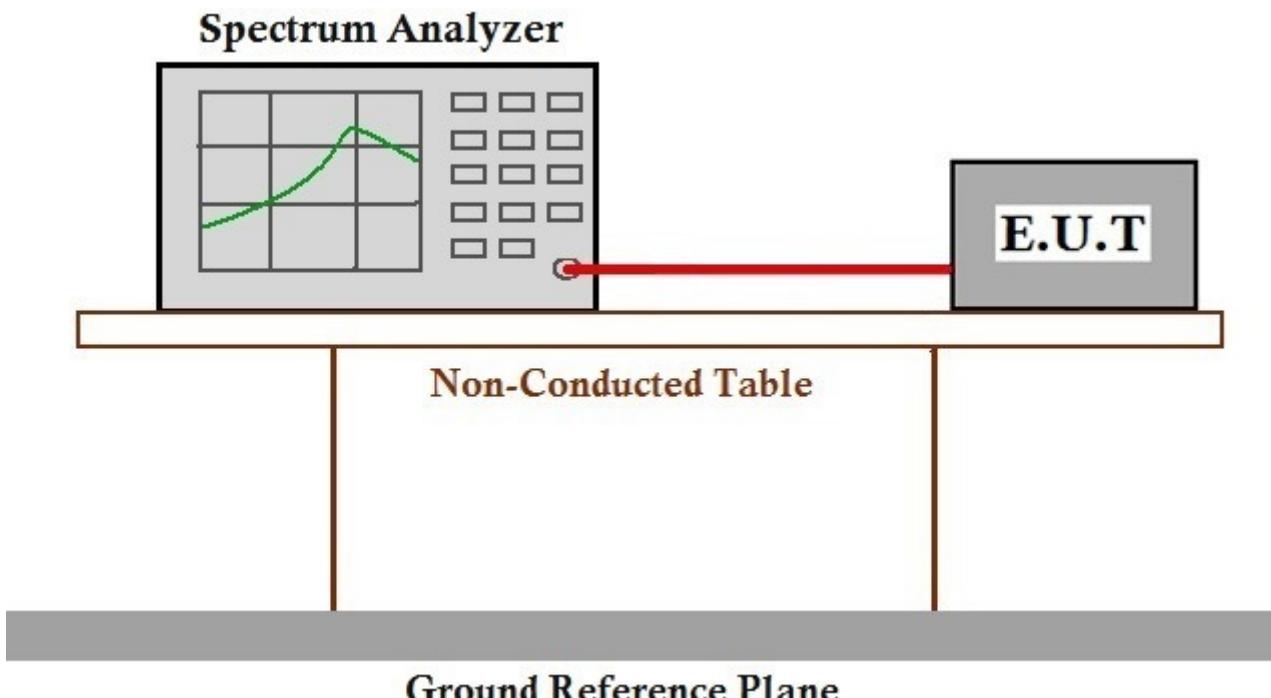
Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9
Limit: N/A

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 27.6 °C Humidity: 33.7 % RH Atmospheric Pressure: 1015 mbar
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

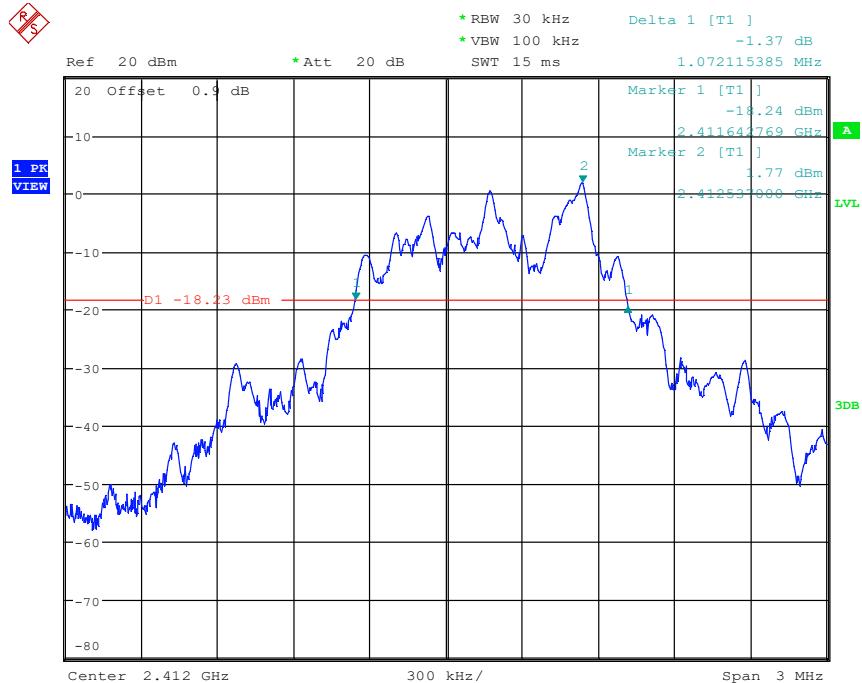
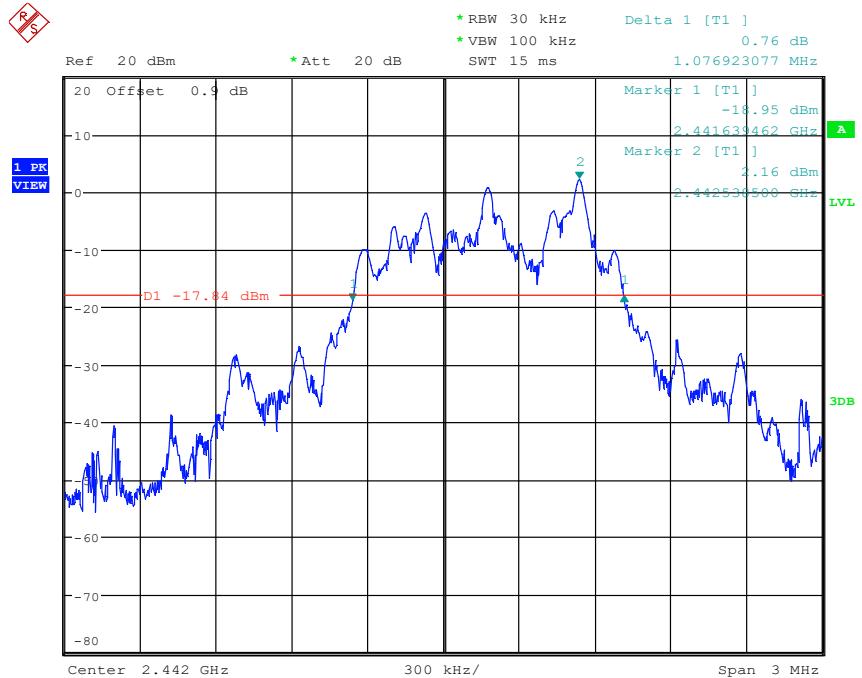
7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

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Mode:a; Channel:Low

Mode:a; Channel:middle


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Mode:a Channel:High



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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

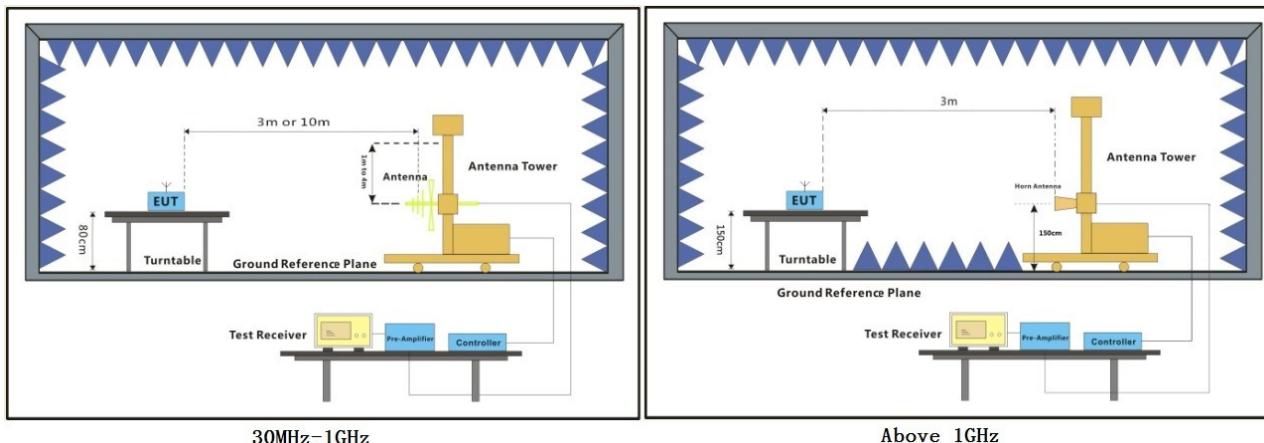
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



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7.2.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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



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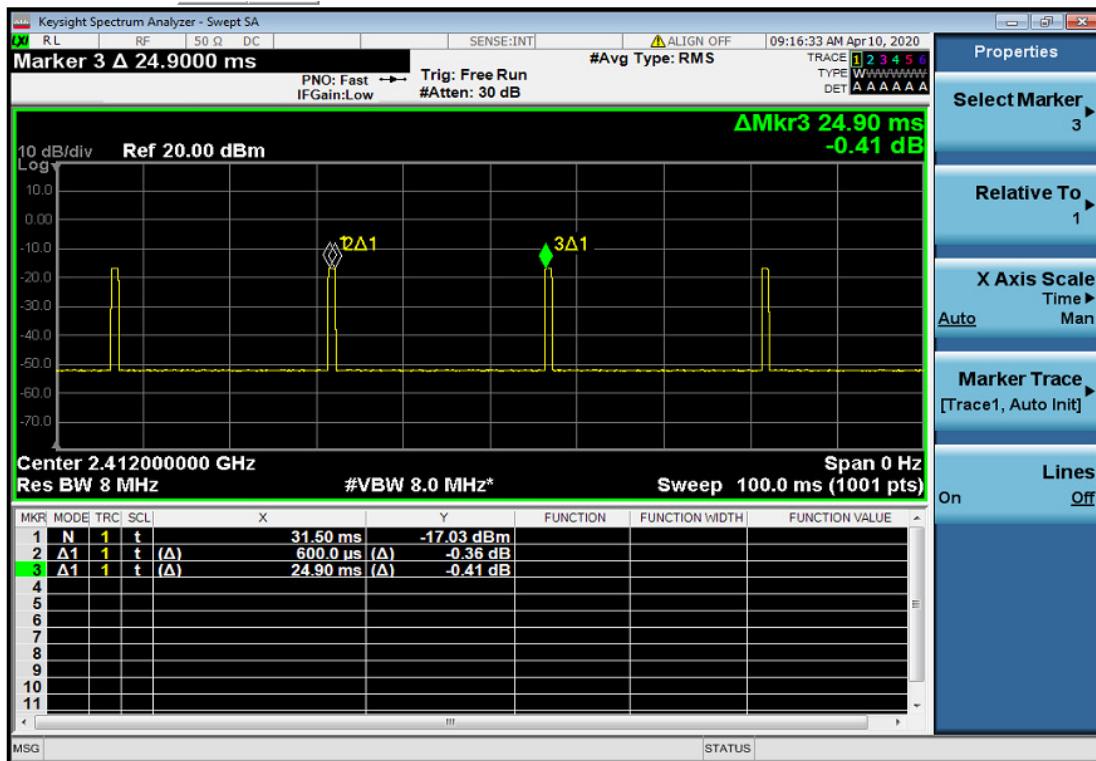
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Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.6ms
	T period =24.9ms
	PDCF value= -32.36dB

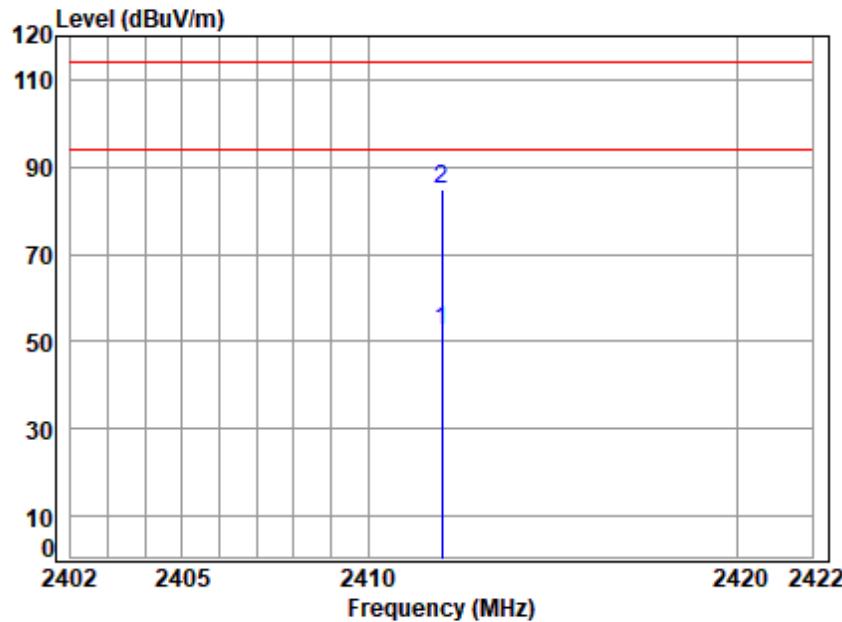
Duty cycle test plots:



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Mode:a; Polarization:Horizontal; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02039CR\02040CR

Mode : 2412 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 2412.000	3.68	28.56	40.98	61.17	52.43	94.00	-41.57 Average
2 2412.000	3.68	28.56	40.98	93.53	84.79	114.00	-29.21 peak

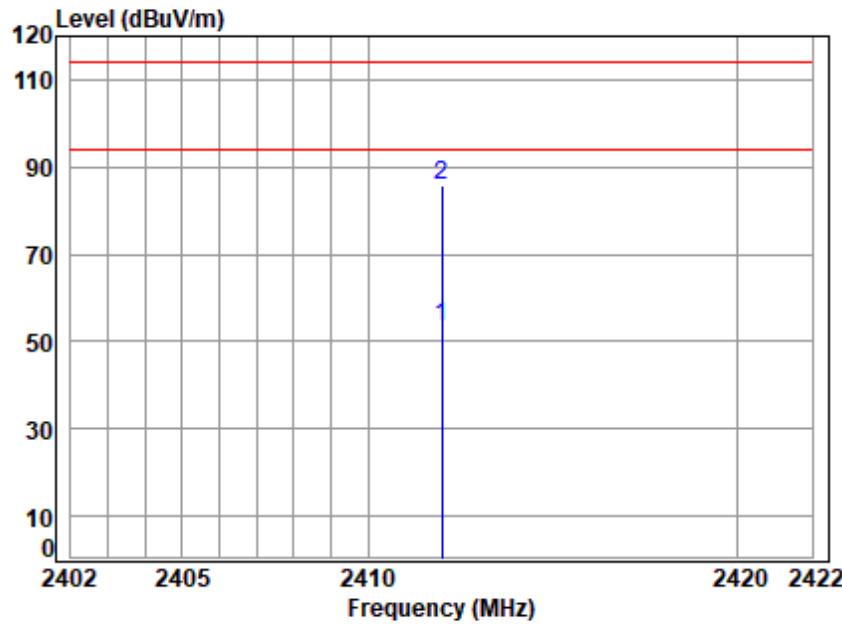
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Mode:a; Polarization:Vertical; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02039CR\02040CR

Mode : 2412 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 2412.000	3.68	28.56	40.98	62.05	53.31	94.00	-40.69 Average
2 2412.000	3.68	28.56	40.98	94.41	85.67	114.00	-28.33 peak

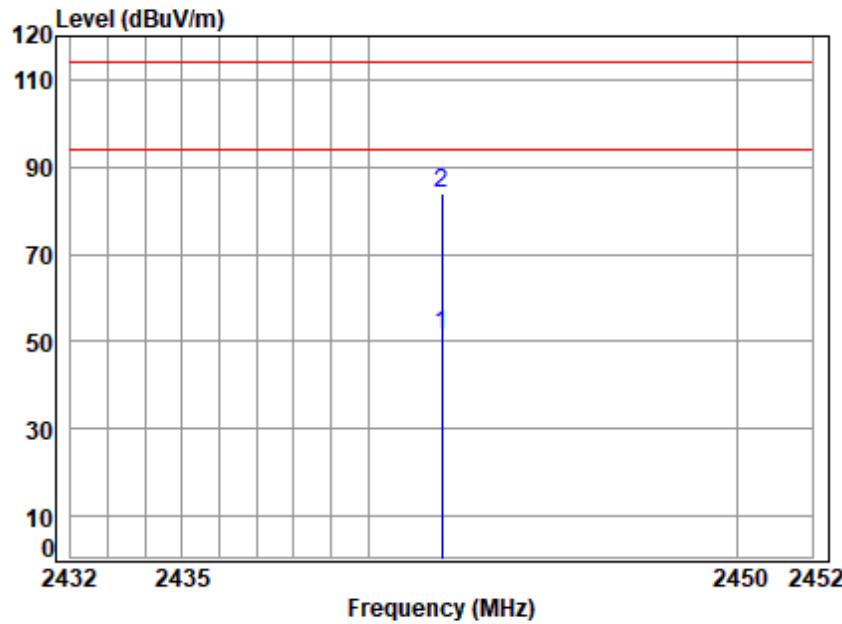
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Mode:a; Polarization:Horizontal; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02039CR\02040CR

Mode : 2442 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Remark
					dB	dBuV	dBuV/m	dBuV/m
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 2442.000	3.82	28.61	40.99	60.34	51.78	94.00	-42.22	Average
2 2442.000	3.82	28.61	40.99	92.70	84.14	114.00	-29.86	peak

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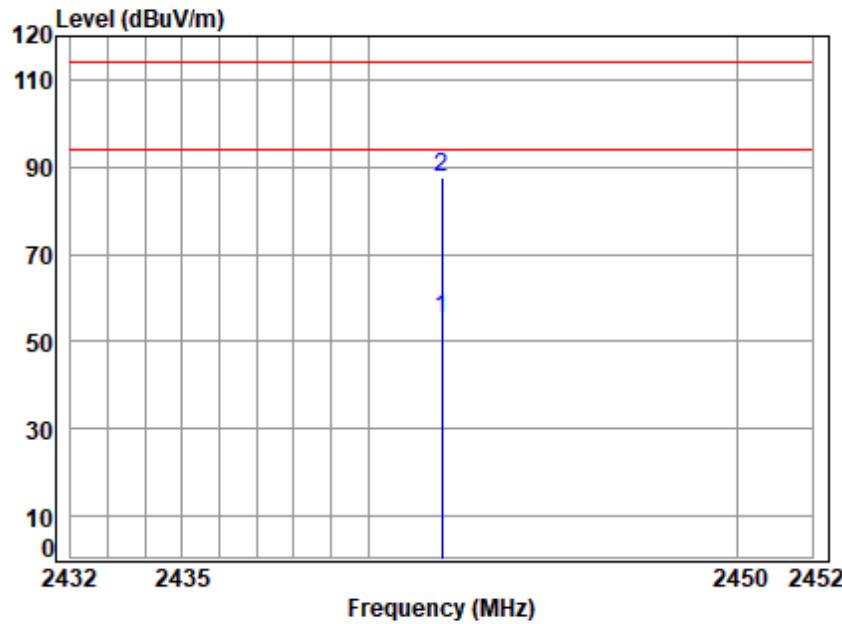
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Mode:a; Polarization:Vertical; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02039CR\02040CR

Mode : 2442 Field strength

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Remark
--	---------------	-------------	------------------	---------------	----------------	---------------	---------------	--------

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
--	-----	----	------	----	------	--------	--------	----

1	2442.000	3.82	28.61	40.99	63.81	55.25	94.00	-38.75 Average
2	2442.000	3.82	28.61	40.99	96.17	87.61	114.00	-26.39 peak

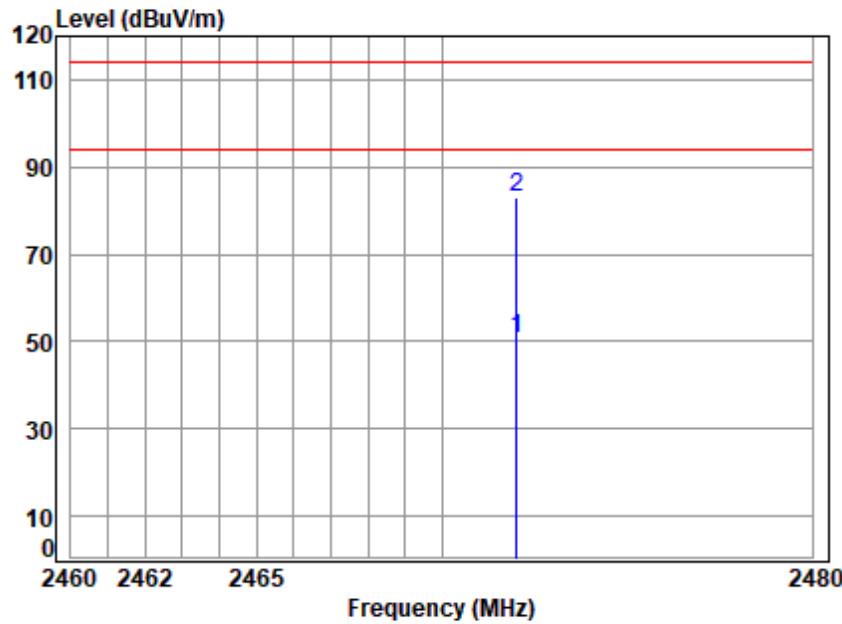
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Mode:a; Polarization:Horizontal; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02039CR\02040CR

Mode : 2472 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m	
1	2472.000	3.95	28.65	41.01	59.06	50.65	94.00	-43.35	Average
2	2472.000	3.95	28.65	41.01	91.42	83.01	114.00	-30.99	peak

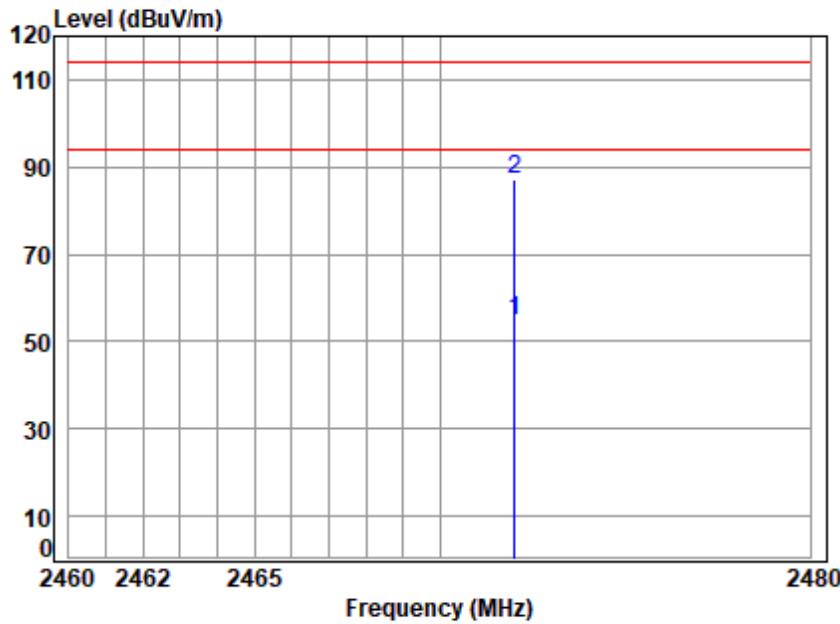
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Mode:a; Polarization:Vertical; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02039CR\02040CR

Mode : 2472 Field strength

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2472.000	3.95	28.65	41.01	63.05	54.64	94.00	-39.36 Average
2 2472.000	3.95	28.65	41.01	95.41	87.00	114.00	-27.00 peak

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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

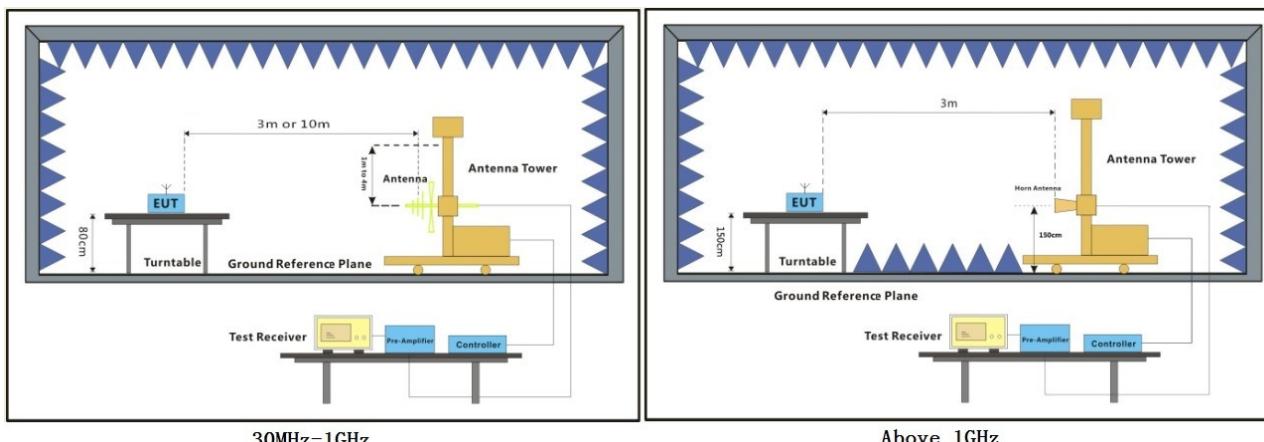
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram



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7.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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



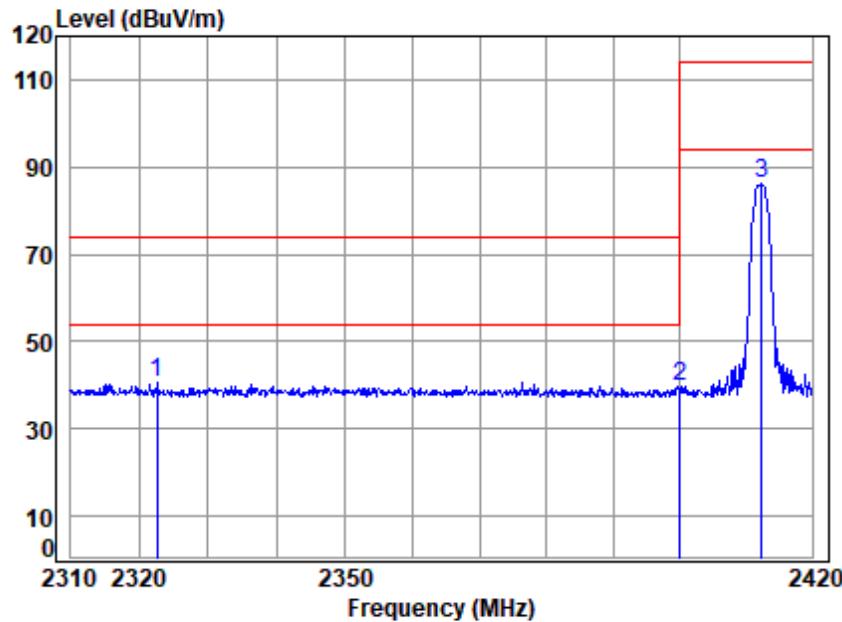
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Mode:a; Polarization:Horizontal; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02039CR\02040CR
Mode : 2412 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2322.607	4.14	28.40	40.94	48.92	40.52	74.00	-33.48 Peak
2 2400.000	3.62	28.53	40.98	48.52	39.69	74.00	-34.31 peak
3 2412.357	3.68	28.56	40.98	94.76	86.02	114.00	-27.98 peak

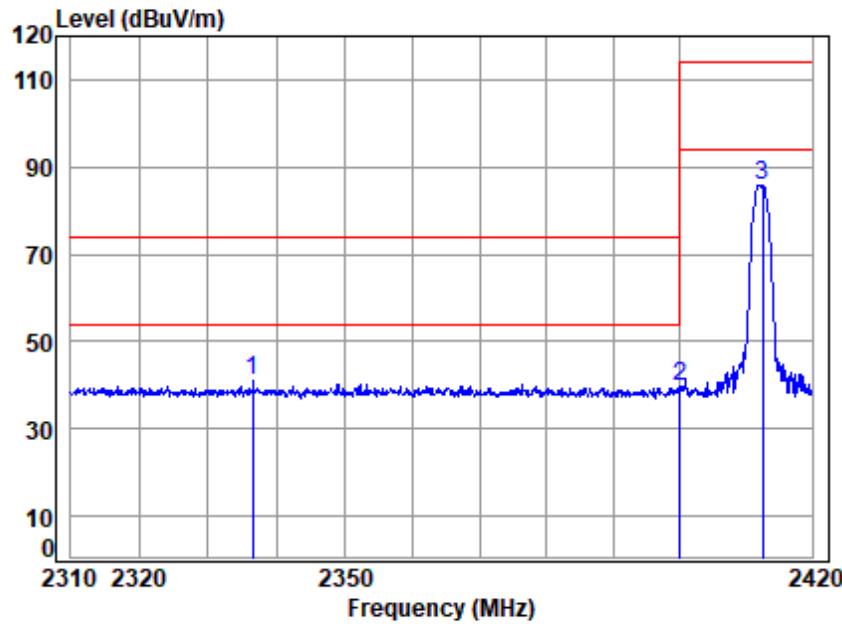
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Mode:a; Polarization:Vertical; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02039CR\02040CR
Mode : 2412 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2336.587	4.04	28.43	40.95	49.48	41.00	74.00	-33.00 Peak
2 2400.000	3.62	28.54	40.98	48.54	39.72	74.00	-34.28 peak
3 2412.469	3.68	28.56	40.98	94.53	85.79	114.00	-28.21 peak

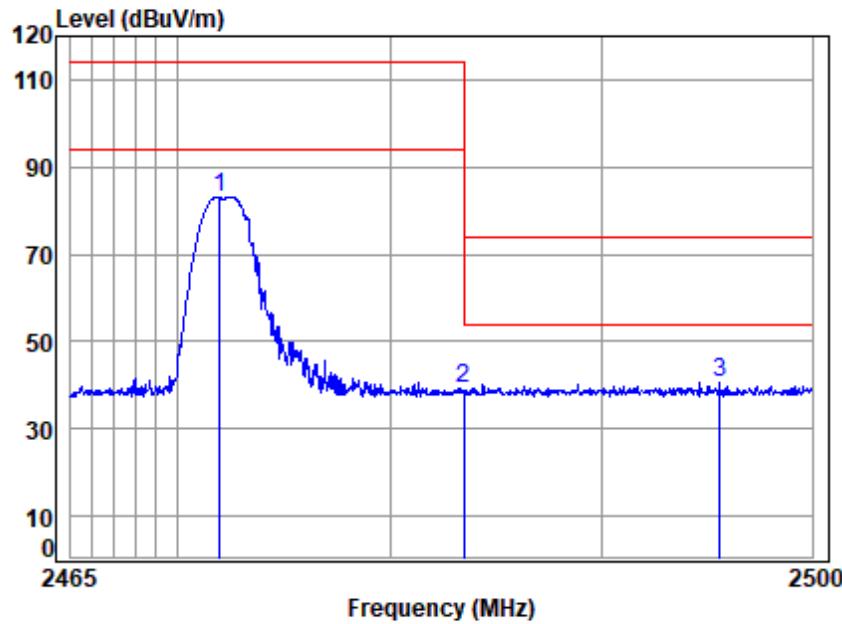
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Mode:a; Polarization:Horizontal; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02039CR\02040CR
Mode : 2472 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line Limit	Over Remark
					dB	dB/m	dB	dBuV
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 2472.000	3.95	28.65	41.01	91.52	83.11	114.00	-30.89	peak
2 2483.500	4.01	28.67	41.01	47.47	39.14	74.00	-34.86	peak
3 2495.598	4.06	28.69	41.02	48.79	40.52	74.00	-33.48	Peak

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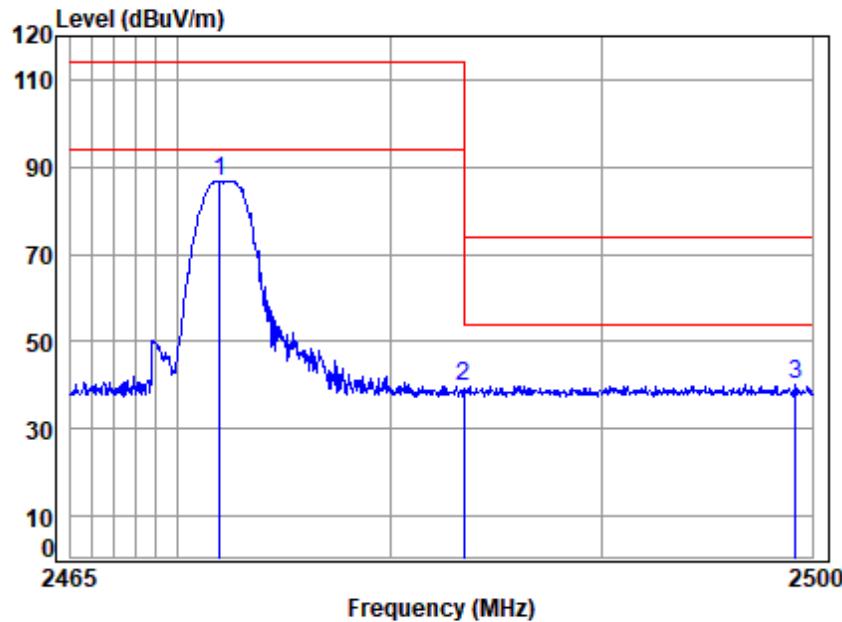
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Mode:a; Polarization:Vertical; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02039CR\02040CR
Mode : 2472 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2472.000	3.95	28.65	41.01	95.27	86.86	114.00	-27.14 peak
2 2483.500	4.01	28.67	41.01	47.87	39.54	74.00	-34.46 peak
3 2499.225	4.08	28.70	41.02	48.33	40.09	74.00	-33.91 Peak

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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

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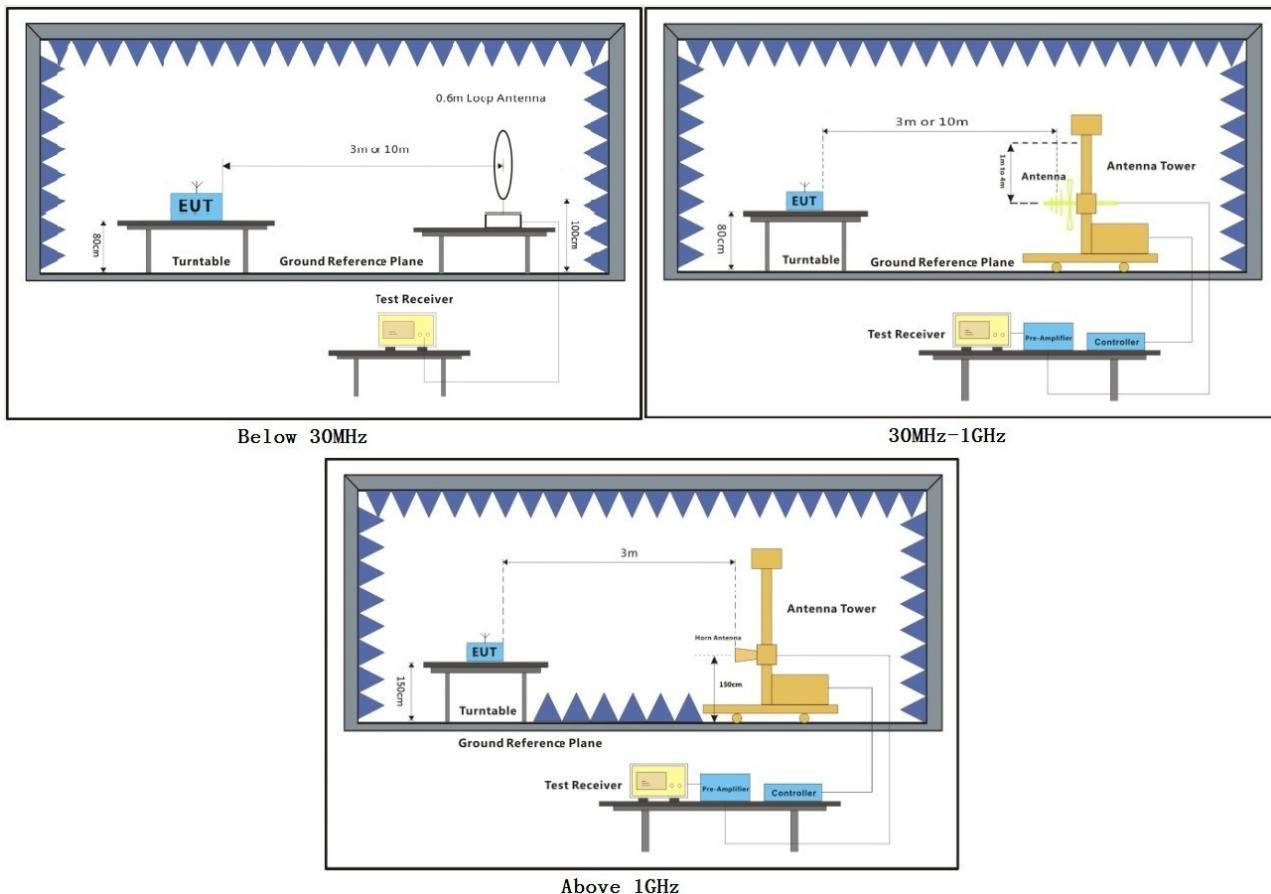
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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1015 mbar
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



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7.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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



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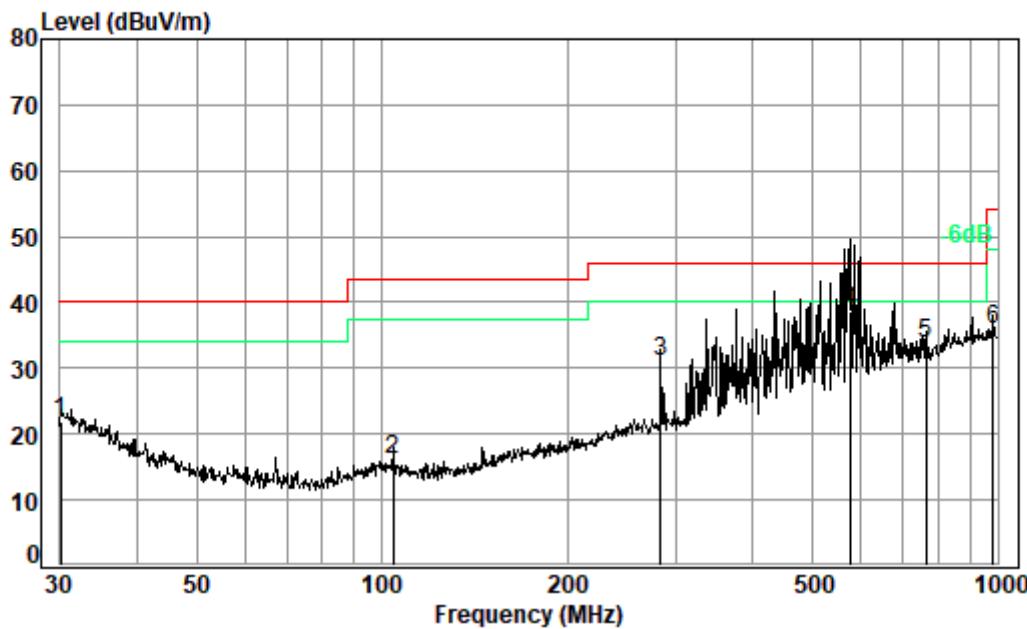
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Below 1GHz

Mode:a; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 02039CR

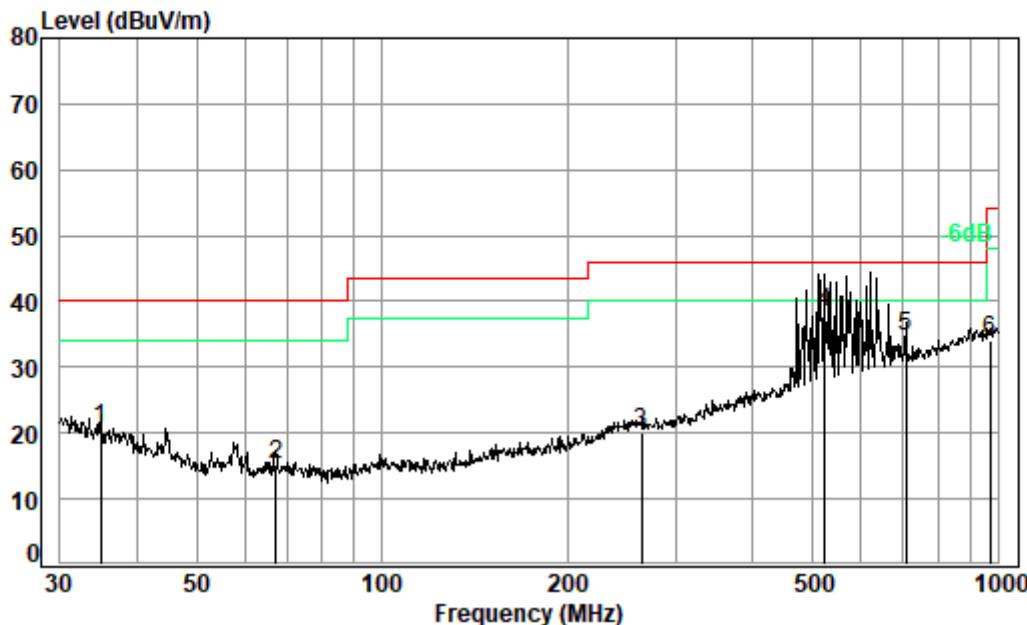
Test mode: a

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.73	26.50	21.81	40.00 -18.19 QP
2	104.17	1.21	13.80	27.61	28.59	15.99	43.50 -27.51 QP
3	282.99	1.83	18.92	26.93	37.06	30.88	46.00 -15.12 QP
4 pp	576.64	2.68	26.16	28.10	37.84	38.58	46.00 -7.42 QP
5	763.38	3.10	28.29	27.79	30.09	33.69	46.00 -12.31 QP
6	982.62	3.68	30.22	26.97	29.01	35.94	54.00 -18.06 QP

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Mode:a; Polarization:Vertical;



Condition: 3m VERTICAL

Job No. : 02039CR

Test mode: a

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.88	0.60	19.88	27.72	27.94	20.70	40.00	-19.30 QP
2	67.20	0.80	12.91	27.67	29.15	15.19	40.00	-24.81 QP
3	263.82	1.74	19.04	26.98	26.33	20.13	46.00	-25.87 QP
4 pp	522.72	2.62	25.09	27.92	38.42	38.21	46.00	-7.79 QP
5	709.18	2.93	27.96	27.91	31.72	34.70	46.00	-11.30 QP
6	972.34	3.67	30.17	27.01	27.12	33.95	54.00	-20.05 QP

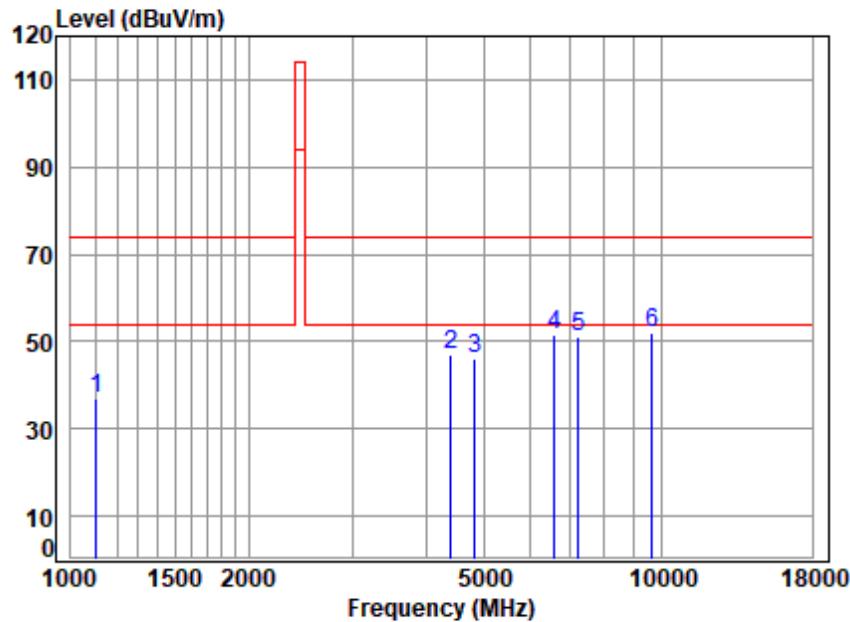
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Mode:a; Polarization:Horizontal; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02039CR\02040CR
Mode : 2412 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1 1103.264	2.20	24.13	40.20	51.03	37.16	74.00	-36.84	peak
2 4405.090	6.67	33.44	42.48	49.24	46.87	74.00	-27.13	peak
3 4824.000	6.86	34.00	42.78	48.17	46.25	74.00	-27.75	peak
4 6583.209	7.90	35.65	41.91	49.91	51.55	74.00	-22.45	peak
5 7236.000	8.43	36.09	41.56	48.04	51.00	74.00	-23.00	peak
6 9648.000	9.41	37.69	38.51	43.38	51.97	74.00	-22.03	peak

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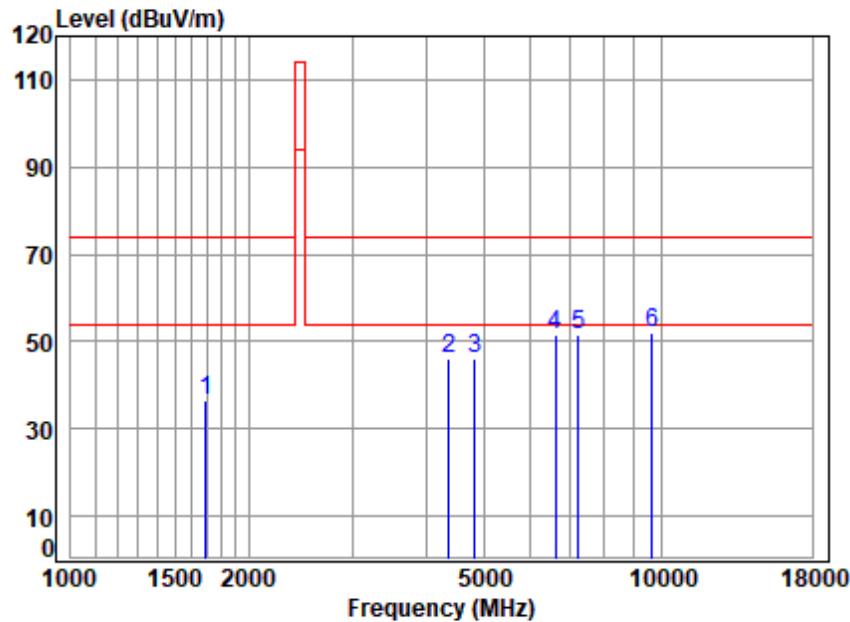
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Mode:a; Polarization:Vertical; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02039CR\02040CR
Mode : 2412 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
1	1692.231	3.28	26.64	40.63	47.32	36.61	74.00	-37.39 peak
2	4367.058	6.56	33.37	42.45	48.62	46.10	74.00	-27.90 peak
3	4824.000	6.86	34.00	42.78	48.11	46.19	74.00	-27.81 peak
4	6621.375	8.07	35.67	41.88	49.60	51.46	74.00	-22.54 peak
5	7236.000	8.43	36.09	41.56	48.42	51.38	74.00	-22.62 peak
6	9648.000	9.41	37.69	38.51	43.63	52.22	74.00	-21.78 peak

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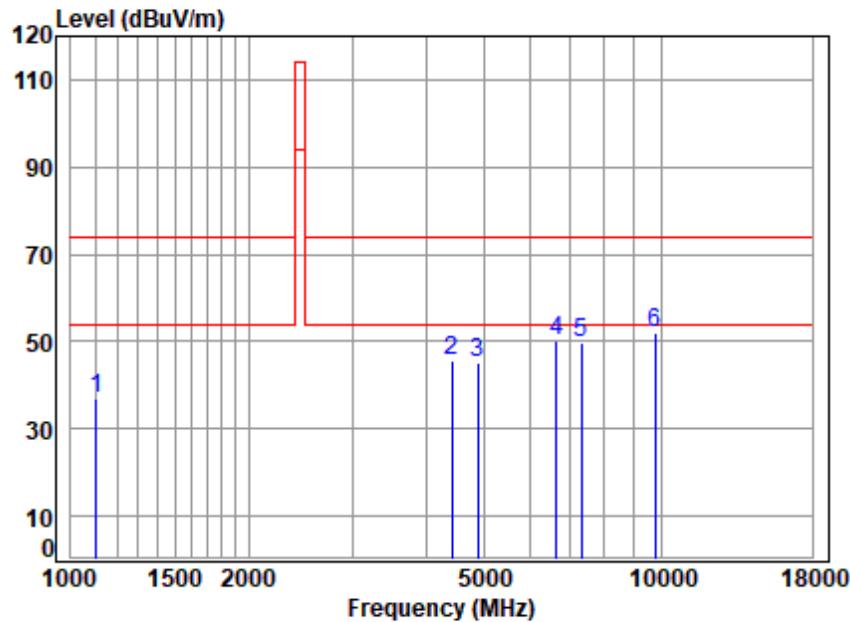
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Mode:a; Polarization:Horizontal; Channel:middle



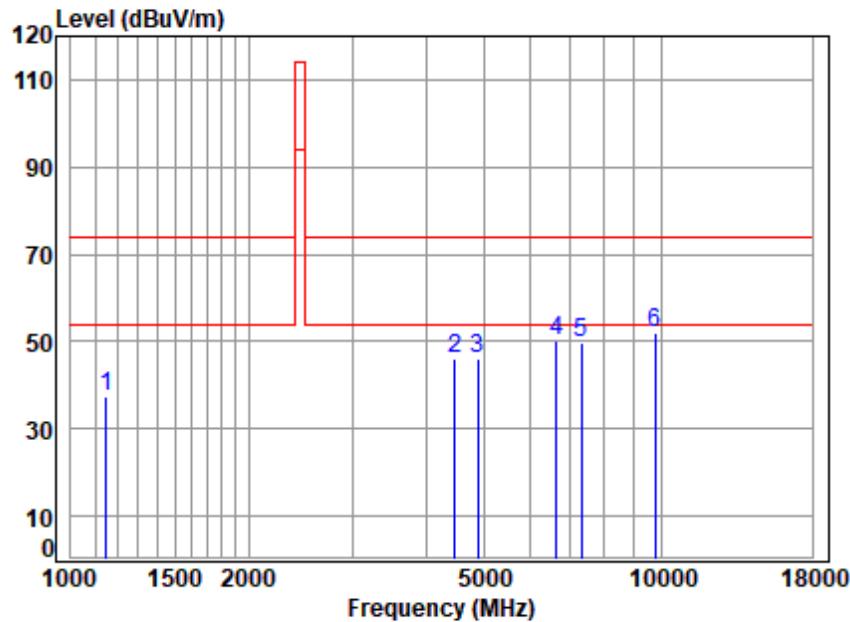
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02039CR\02040CR
Mode : 2442 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line Limit	Over Remark
					dB	dB/m	dB	dBuV
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 1103.264	2.20	24.13	40.20	50.82	36.95	74.00	-37.05	peak
2 4417.841	6.63	33.46	42.49	47.99	45.59	74.00	-28.41	peak
3 4884.000	7.03	34.07	42.82	47.12	45.40	74.00	-28.60	peak
4 6640.542	8.14	35.69	41.87	48.32	50.28	74.00	-23.72	peak
5 7326.000	8.35	36.16	41.52	46.78	49.77	74.00	-24.23	peak
6 9768.000	9.27	37.76	38.34	43.23	51.92	74.00	-22.08	peak

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Mode:a; Polarization:Vertical; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02039CR\02040CR
Mode : 2442 TX RSE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1148.823	2.41	24.35	40.24	50.68	37.20	74.00	-36.80 peak
2 4469.214	6.47	33.55	42.53	48.56	46.05	74.00	-27.95 peak
3 4884.000	7.03	34.07	42.82	47.83	46.11	74.00	-27.89 peak
4 6640.542	8.14	35.69	41.87	48.01	49.97	74.00	-24.03 peak
5 7326.000	8.35	36.16	41.52	46.72	49.71	74.00	-24.29 peak
6 9768.000	9.27	37.76	38.34	43.47	52.16	74.00	-21.84 peak

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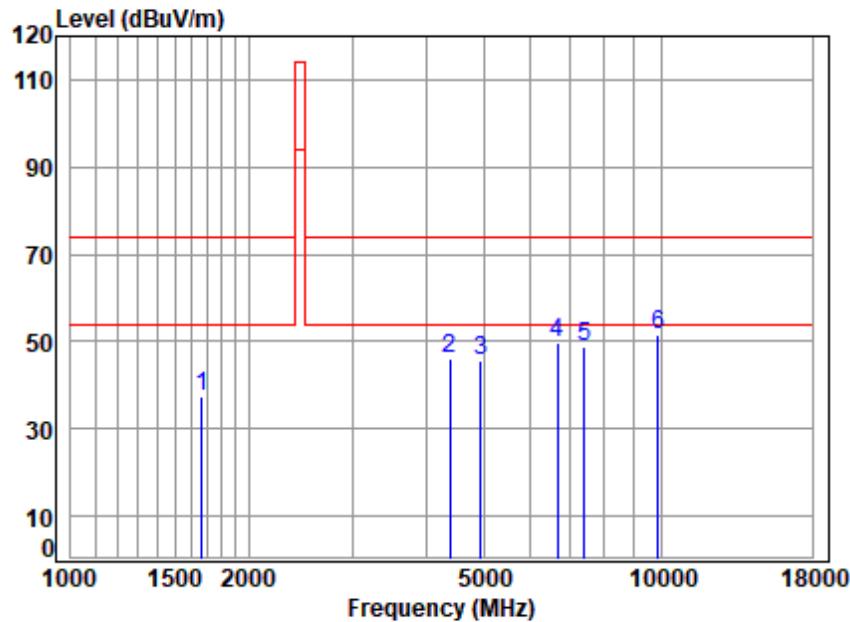
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Mode:a; Polarization:Horizontal; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02039CR\02040CR
Mode : 2472 TX RSE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1667.951	3.20	26.54	40.61	48.19	37.32	74.00	-36.68 peak
2 4379.699	6.61	33.39	42.46	48.70	46.24	74.00	-27.76 peak
3 4944.000	7.04	34.14	42.86	47.37	45.69	74.00	-28.31 peak
4 6679.040	8.27	35.71	41.85	47.64	49.77	74.00	-24.23 peak
5 7416.000	8.15	36.23	41.47	46.11	49.02	74.00	-24.98 peak
6 9888.000	8.99	37.83	38.16	42.83	51.49	74.00	-22.51 peak

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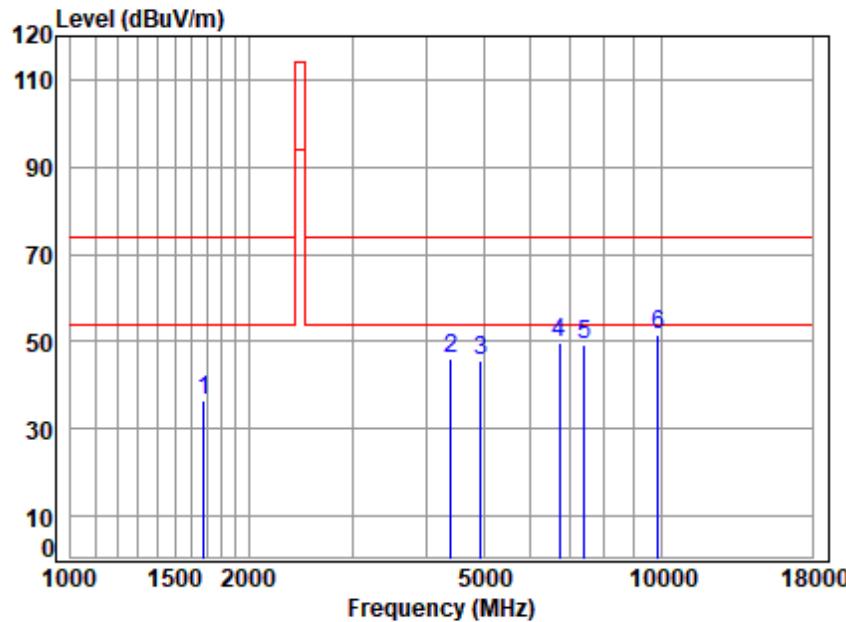
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Mode:a; Polarization:Vertical; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02039CR\02040CR

Mode : 2472 TX RSE

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1677.621	3.23	26.58	40.62	47.31	36.50	74.00	-37.50 peak
2 4405.090	6.67	33.44	42.48	48.46	46.09	74.00	-27.91 peak
3 4944.000	7.04	34.14	42.86	47.24	45.56	74.00	-28.44 peak
4 6717.762	8.28	35.73	41.83	47.66	49.84	74.00	-24.16 peak
5 7416.000	8.15	36.23	41.47	46.59	49.50	74.00	-24.50 peak
6 9888.000	8.99	37.83	38.16	42.90	51.56	74.00	-22.44 peak

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8 Photographs

8.1 Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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