

TEST REPORT

Application No.: SZCR2601000202ET(SZHL260100085401TY)
Applicant: HYPER BICYCLES INC
Address of Applicant: 177 MALAGA PARK DRIVE MALAGA, NJ 08328 USA
Manufacturer: Dongguan Weisheng Plastic Technology Co., Ltd
Address of Manufacturer: Room 102, No.6 Qile Second Road, Xiegang Town, Dongguan City, Guangdong Province, China
Factory: Dongguan Weisheng Plastic Technology Co., Ltd
Address of Factory: Room 102, No.6 Qile Second Road, Xiegang Town, Dongguan City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: HYPER RC CHOPPER TRUCK 1:14
Model No.: TGT-HTT-1100, HYP-WCC-1141, WMC-WCC-1141 ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
FCC ID: 2A8PMWMCWCC1141-R
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2026-01-13
Date of Test: 2026-01-25 to 2026-02-03
Date of Issue: 2026-02-10

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

Keny Xu

Keny Xu
EMC Laboratory Manager





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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-02-10		Original

Authorized for issue by:				
		Martin Tang		
		Martin Tang/Project Engineer		
		Eric Fu		
		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 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass

Declaration of EUT Family Grouping:

Model No.: TGT-HTT-1100, HYP-WCC-1141, WMC-WCC-1141

Only the model HYP-WCC-1141 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., colour and decorations.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery: DC 6.4V, 320mAh, 2.04Wh for car, Charged by DC 5V
Cable(s):	USB cable: about 35cm unshielded
Cable Loss (for RF conducted test):	0.5dB
Operation Frequency:	2420MHz-2462MHz
Modulation Type:	GFSK
Number of Channels	43
Antenna Type	Wire Antenna
Antenna Gain:	0dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	16	2435	31	2450
2	2421	17	2436	32	2451
3	2422	18	2437	33	2452
4	2423	19	2438	34	2453
5	2424	20	2439	35	2454
6	2425	21	2440	36	2455
7	2426	22	2441	37	2456
8	2427	23	2442	38	2457
9	2428	24	2443	39	2458
10	2429	25	2444	40	2459
11	2430	26	2445	41	2460
12	2431	27	2446	42	2461
13	2432	28	2447	43	2462
14	2433	29	2448	/	
15	2434	30	2449		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Restricted Band Around Fundamental Frequency	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1GHz-18GHz); $\pm 4.8\text{dB}$ (18MHz-40GHz)
20dB Bandwidth	$\pm 0.3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Emissions Below 30MHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-22	2026-03-21
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04



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Radiated Emissions 30MHz-1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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

6.1.2 Conclusion

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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 (2020) Section 6.9
 Test Engineer: Linvo Ding

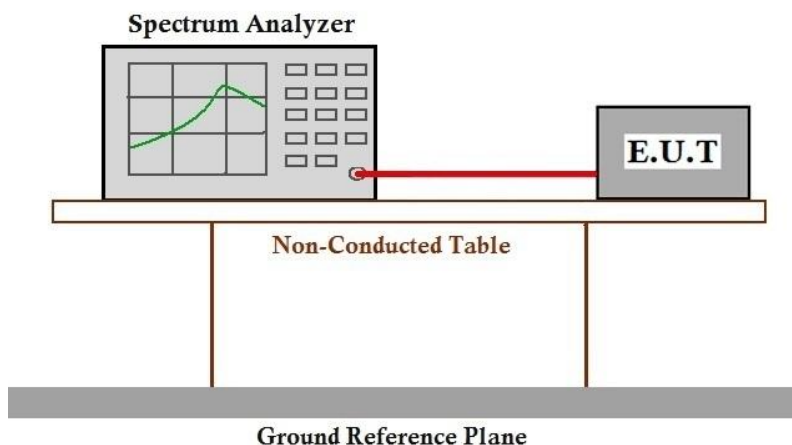
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.4 °C Humidity: 41.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(car) in transmitting with modulation mode.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.061	Pass
Middle	1.090	Pass
Highest	1.063	Pass



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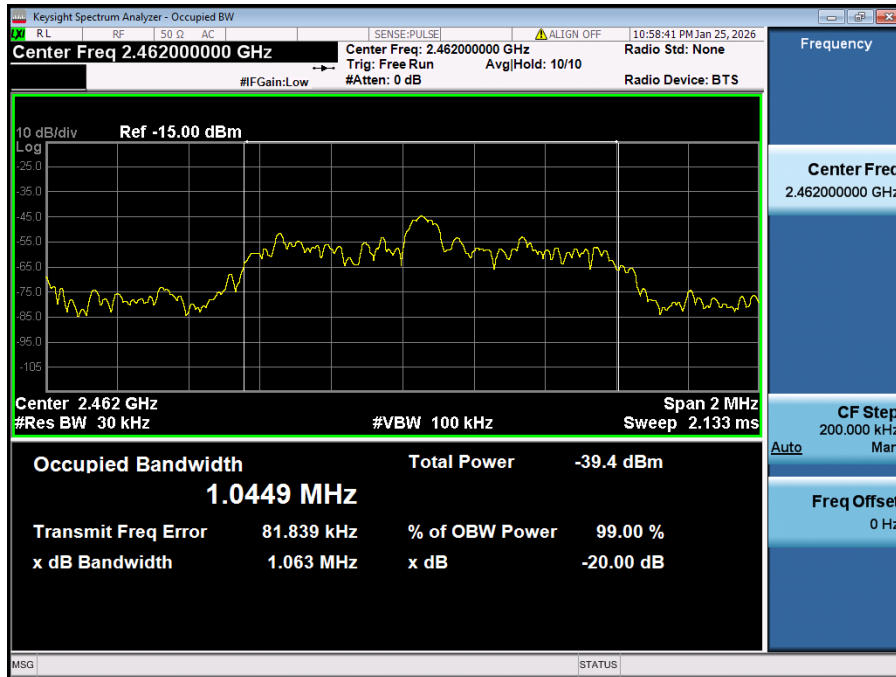


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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6
 Measurement Distance: 3m
 Test Engineer: Logic Wang

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:

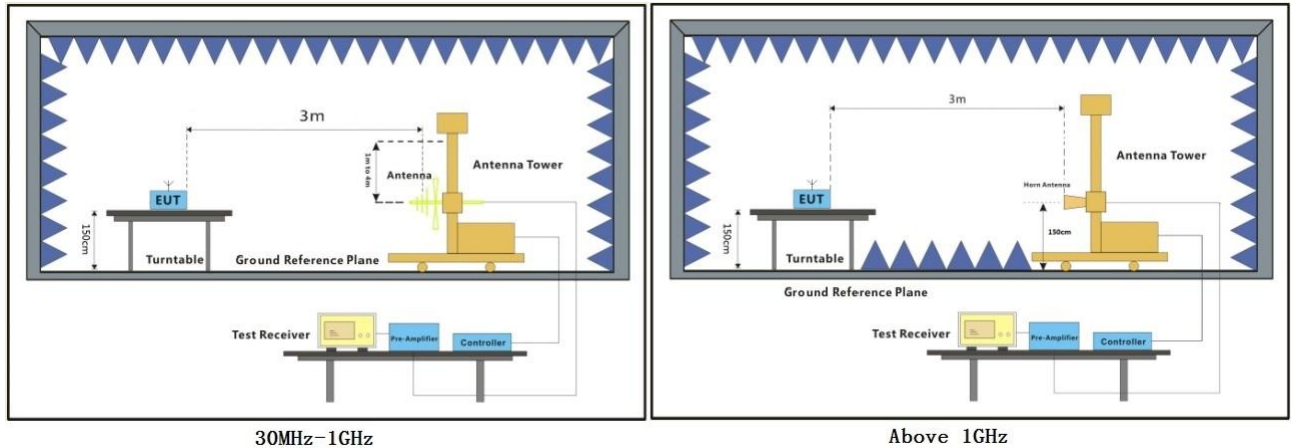
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(car) in transmitting with modulation mode.



7.2.3 Test Setup Diagram

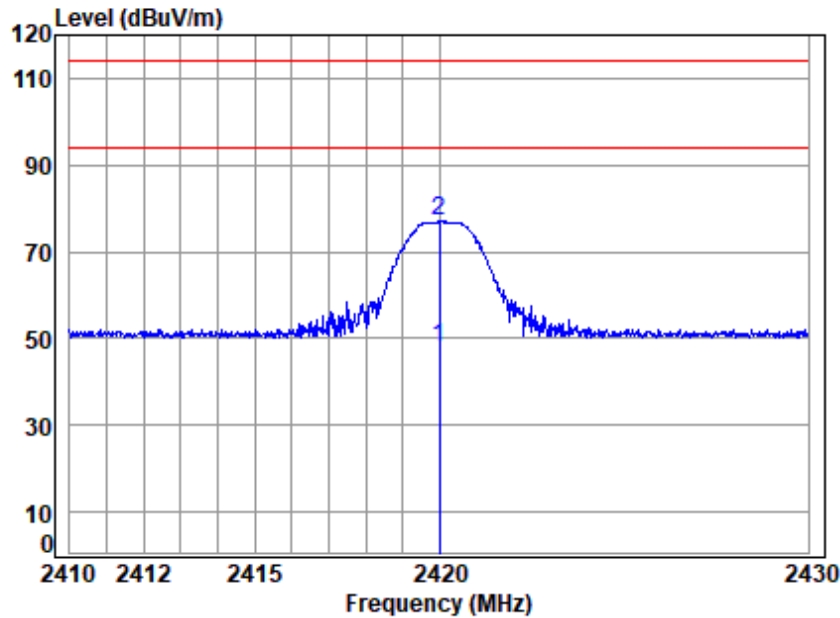


7.2.4 Measurement Procedure and Data

- 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

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

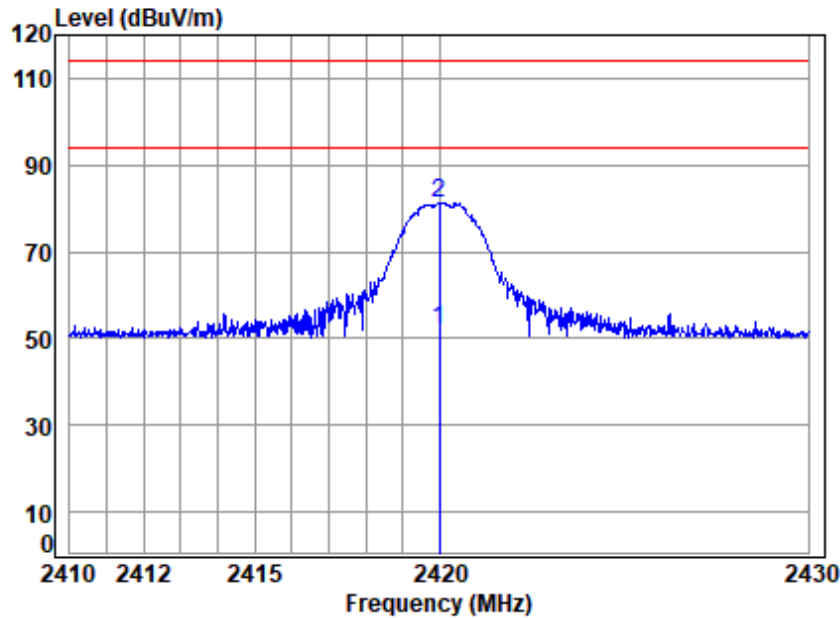
Job No : 00202ET\00203ET

Mode : 2420 Field strength

		Cable	Ant	Preamp	Read	Limit	Over		Aux
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 q 2420.000		16.18	29.02	32.76	35.67	48.11	94.00	-45.89 Average	0.00
2 p 2420.000		16.18	29.02	32.76	64.61	77.05	114.00	-36.95 Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

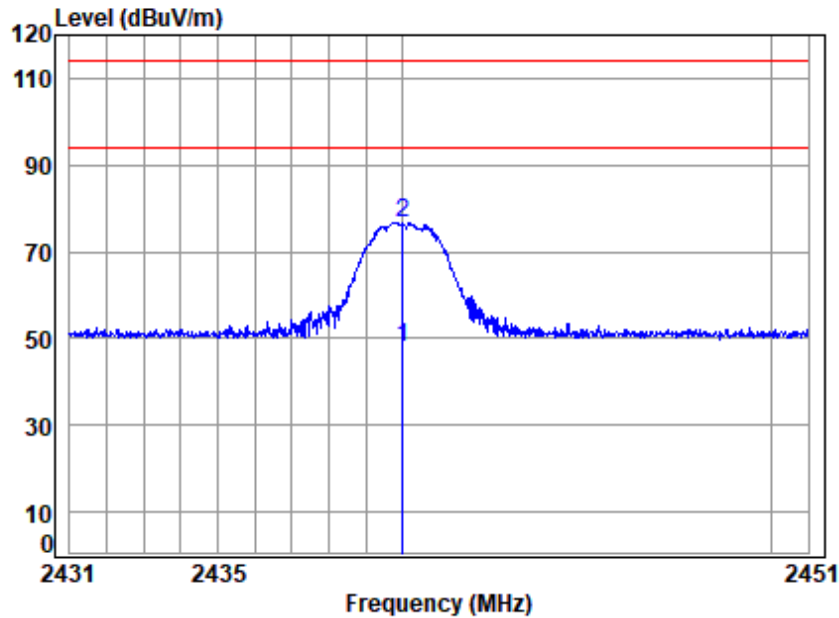
Job No : 00202ET\00203ET

Mode : 2420 Field strength

		Cable	Ant	Preamp	Read	Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 q 2420.000	16.18	29.02	32.76	39.74	52.18	94.00	-41.82	Average	0.00
2 p 2420.000	16.18	29.02	32.76	68.68	81.12	114.00	-32.88	Peak	0.00



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

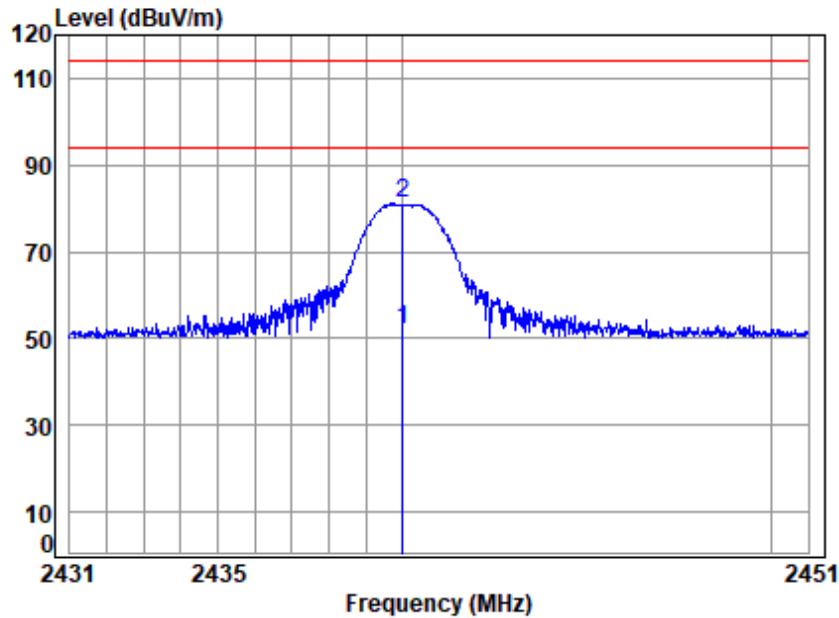
Job No : 00202ET\00203ET

Mode : 2440 Field strength

		Cable	Ant	Preamp	Read	Limit	Over		Aux
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 q	2440.000	16.21	28.94	32.75	35.30	47.70	94.00	-46.30 Average	0.00
2 p	2440.000	16.21	28.94	32.75	64.24	76.64	114.00	-37.36 Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

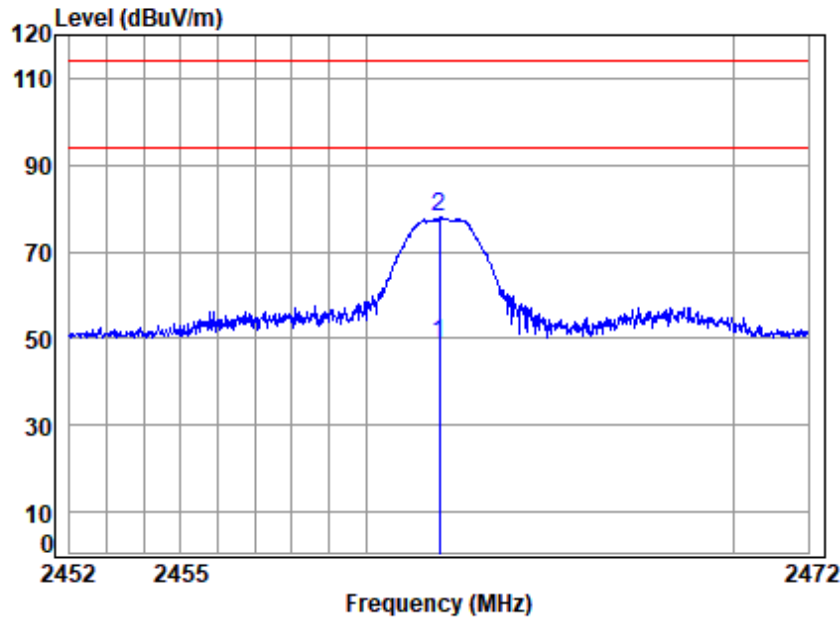
Job No : 00202ET\00203ET

Mode : 2440 Field strength

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
q	2440.000	16.21	28.94	32.75	39.70	52.10	94.00	-41.90	Average	0.00
p	2440.000	16.21	28.94	32.75	68.64	81.04	114.00	-32.96	Peak	0.00



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

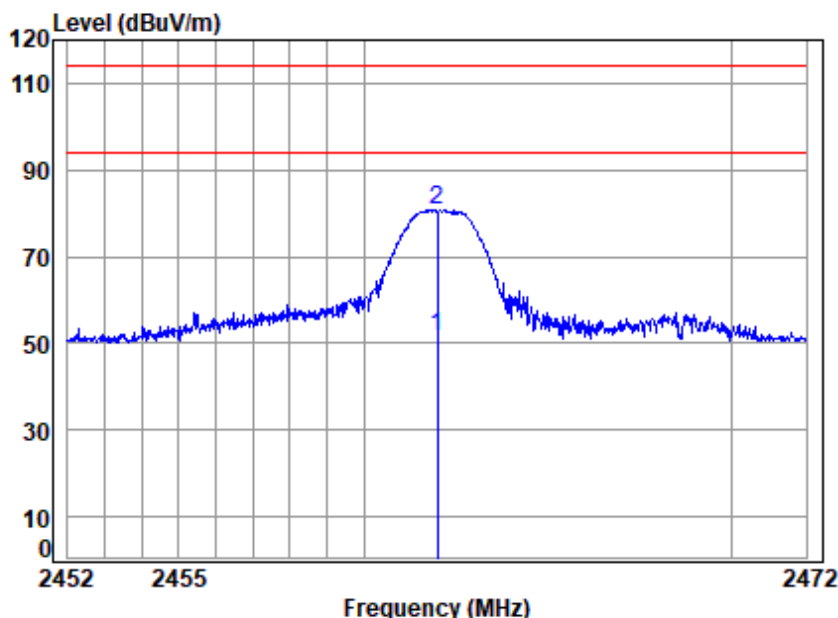
Job No : 00202ET\00203ET

Mode : 2462 Field strength

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
q	2462.000	16.24	28.90	32.74	36.49	48.89	94.00	-45.11	Average	0.00
p	2462.000	16.24	28.90	32.74	65.43	77.83	114.00	-36.17	Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00202ET\00203ET

Mode : 2462 Field strength

		Cable	Ant	Preamp	Read	Limit	Over		Aux
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 q	2462.000	16.24	28.90	32.74	39.37	51.77	94.00	-42.23 Average	0.00
2 p	2462.000	16.24	28.90	32.74	68.31	80.71	114.00	-33.29 Peak	0.00

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation. So, only the above measurement data were shown in the report.



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 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Logic Wang

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: 1020 mbar

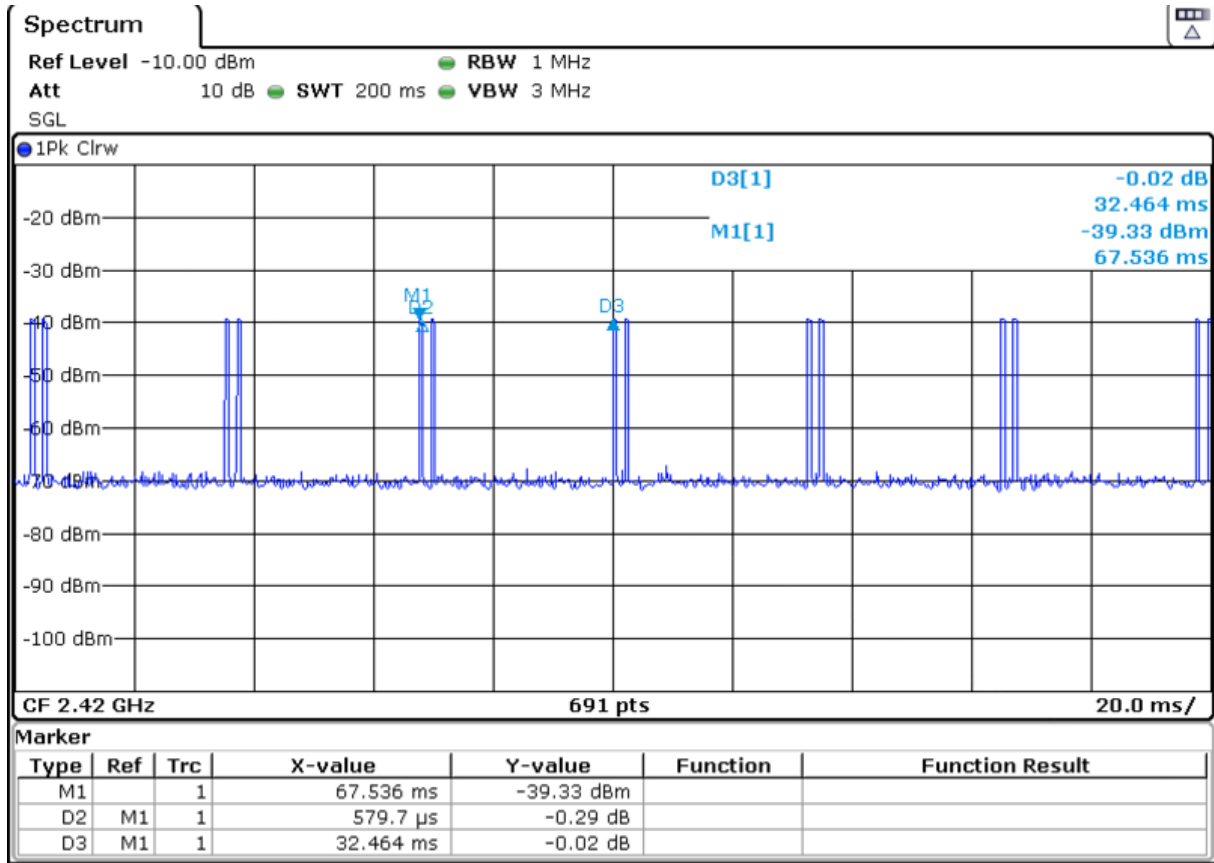
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(car) in transmitting with modulation mode.

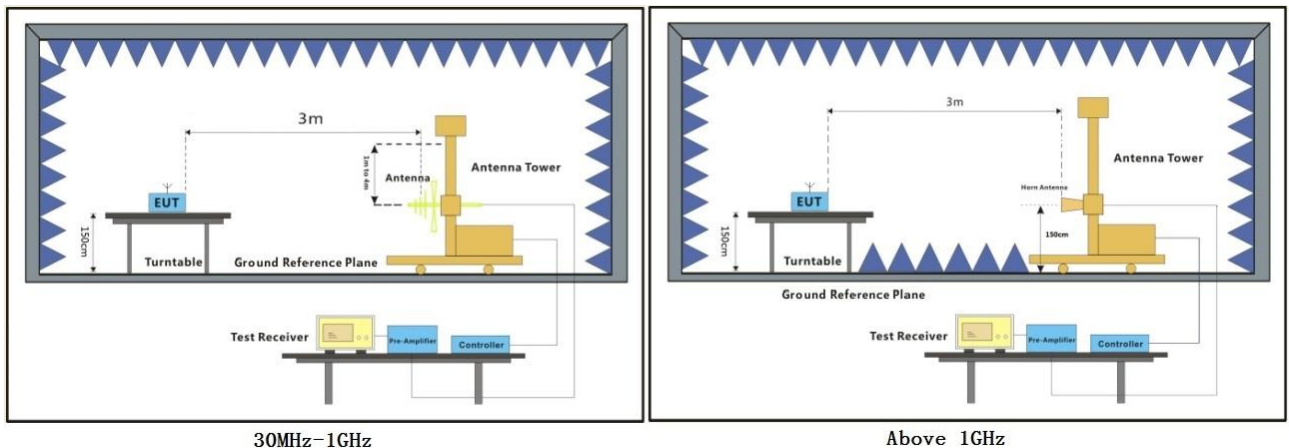
Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =1.1594ms
	T period =32.464ms
	Duty cycle=3.57%
	PDCF value= -28.94dB





7.3.3 Test Setup Diagram



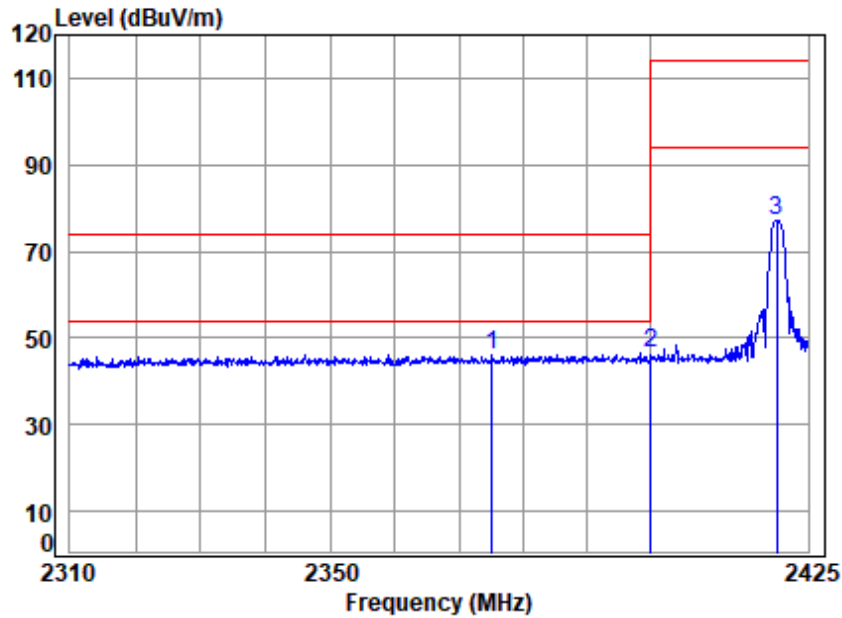
7.3.4 Measurement Procedure and Data

- 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



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

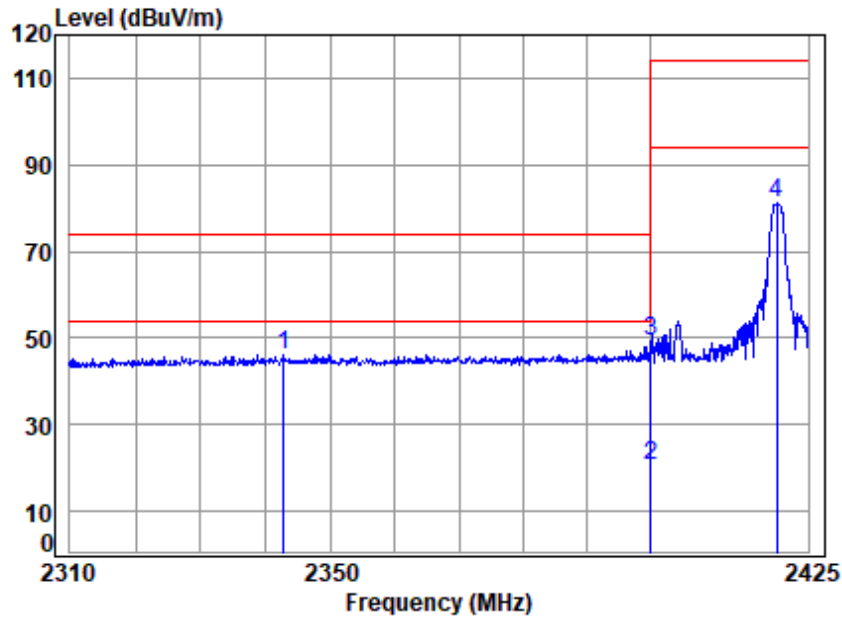


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2420 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2375.095	16.11	29.10	32.79	33.80	46.22	74.00	-27.78	Peak	0.00
2 p	2400.000	16.15	29.10	32.78	33.93	46.40	74.00	-27.60	Peak	0.00
3	2420.000	16.18	29.02	32.76	64.61	77.05	114.00	-36.95	Peak	0.00



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

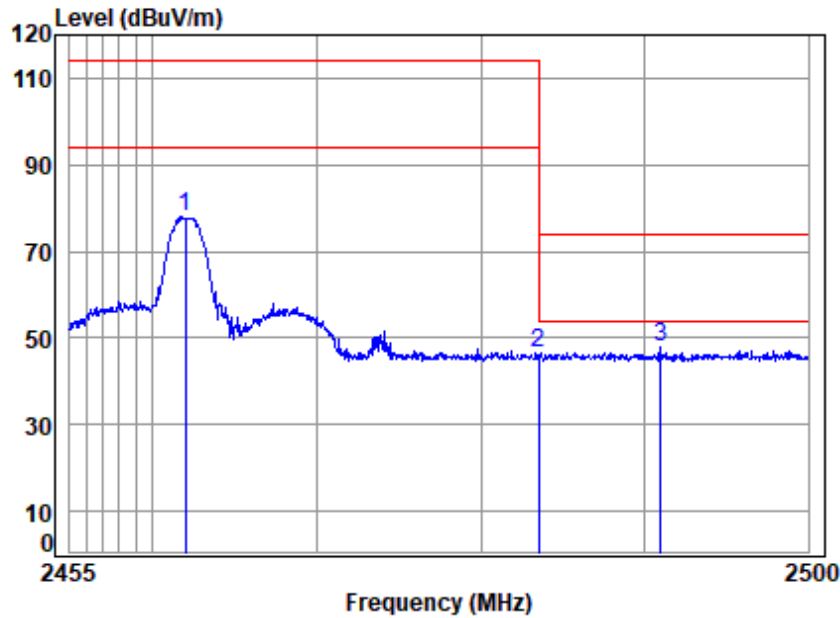


Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2420 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2342.777	16.06	29.00	32.80	33.94	46.20	74.00	-27.80	Peak	0.00
2 q	2400.000	16.15	29.10	32.78	7.91	20.38	54.00	-33.62	Average	0.00
3 p	2400.000	16.15	29.10	32.78	36.85	49.32	74.00	-24.68	Peak	0.00
4	2420.000	16.18	29.02	32.76	68.68	81.12	114.00	-32.88	Peak	0.00



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

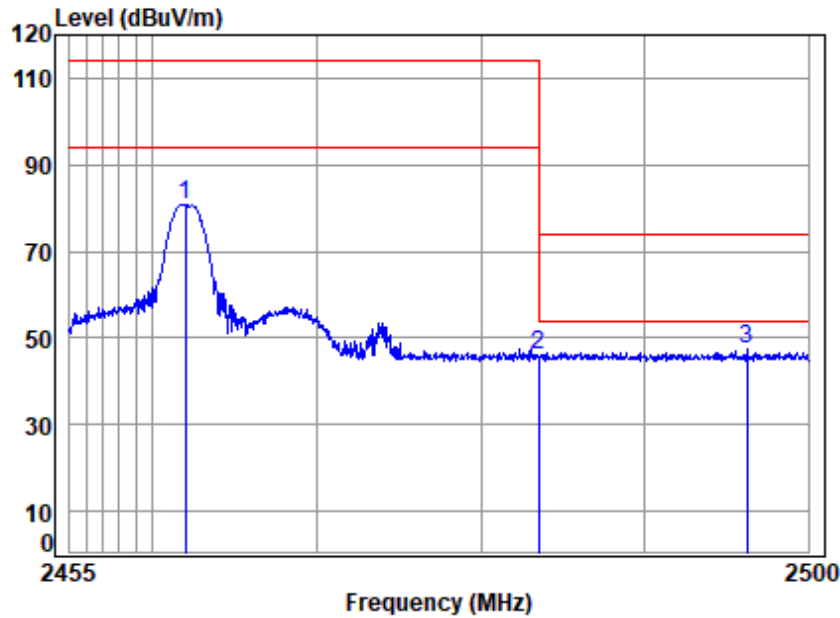


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2462 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2462.000	16.24	28.90	32.74	65.43	77.83	114.00	-36.17	Peak	0.00
2	2483.500	16.28	28.90	32.73	34.06	46.51	74.00	-27.49	Peak	0.00
3 p	2490.935	16.29	28.90	32.73	35.24	47.70	74.00	-26.30	Peak	0.00



Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2462 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2462.000	16.24	28.90	32.74	68.31	80.71	114.00	-33.29	Peak	0.00
2	2483.500	16.28	28.90	32.73	33.60	46.05	74.00	-27.95	Peak	0.00
3 p	2496.234	16.29	28.90	32.73	35.03	47.49	74.00	-26.51	Peak	0.00



7.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.4&6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

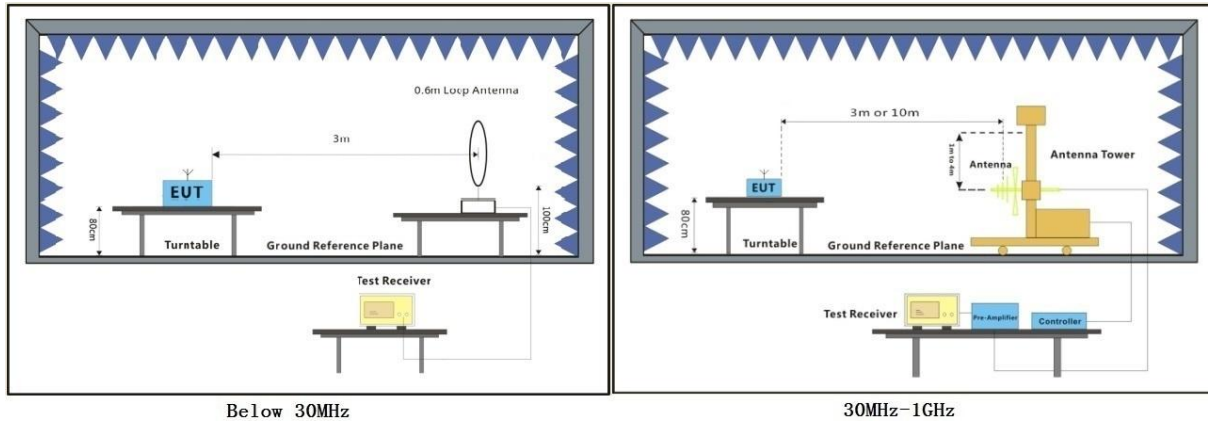
Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_ Keep the EUT(car) in transmitting with modulation mode.



7.4.3 Test Setup Diagram



7.4.4 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 semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamplifier Factor+ Aux Factor (if applicable)

The aux factor needs to be added for the frequency below 30MHz once a closer distance used.

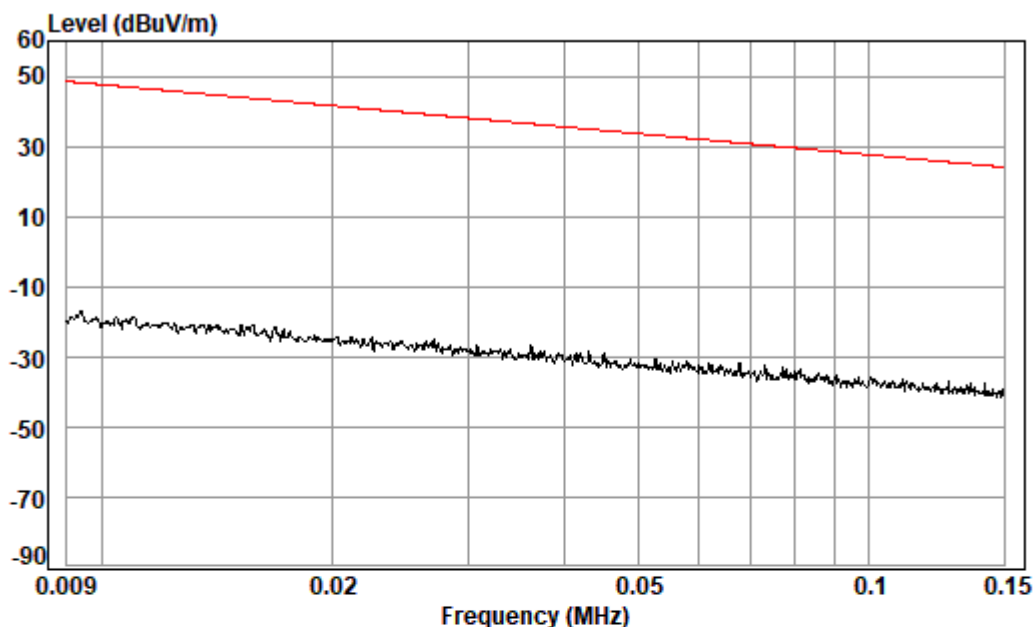
Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3 meter test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. Scan from 30MHz-1GHz, the disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



Test Mode: 01; Polarity: Coaxial



Condition: 3m

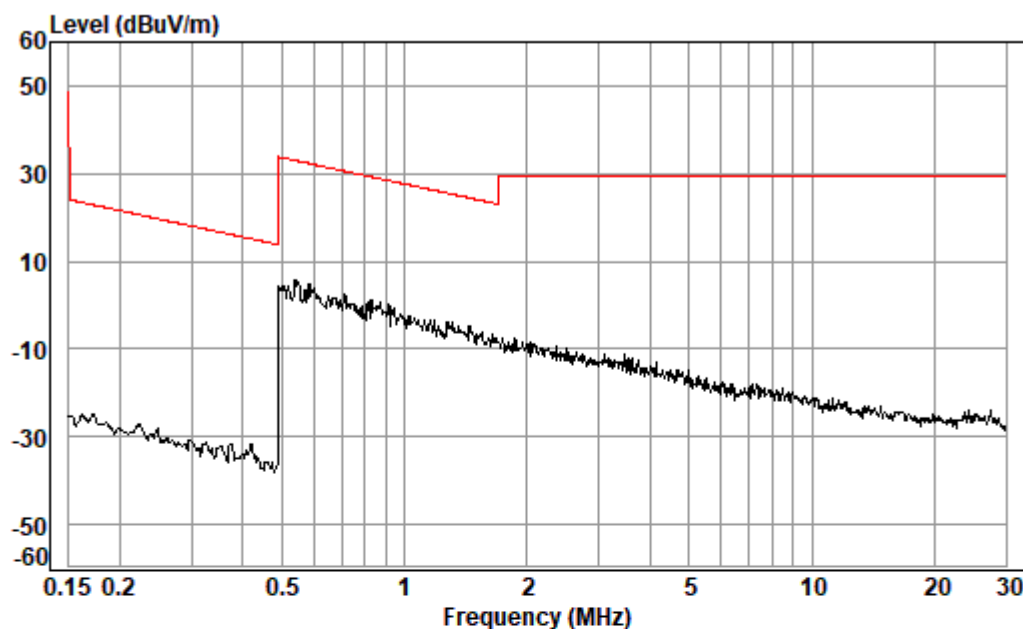
Job No. : 00202ET

Test Mode: 01

: coaxial



Test Mode: 01; Polarity: Coaxial



Condition: 3m

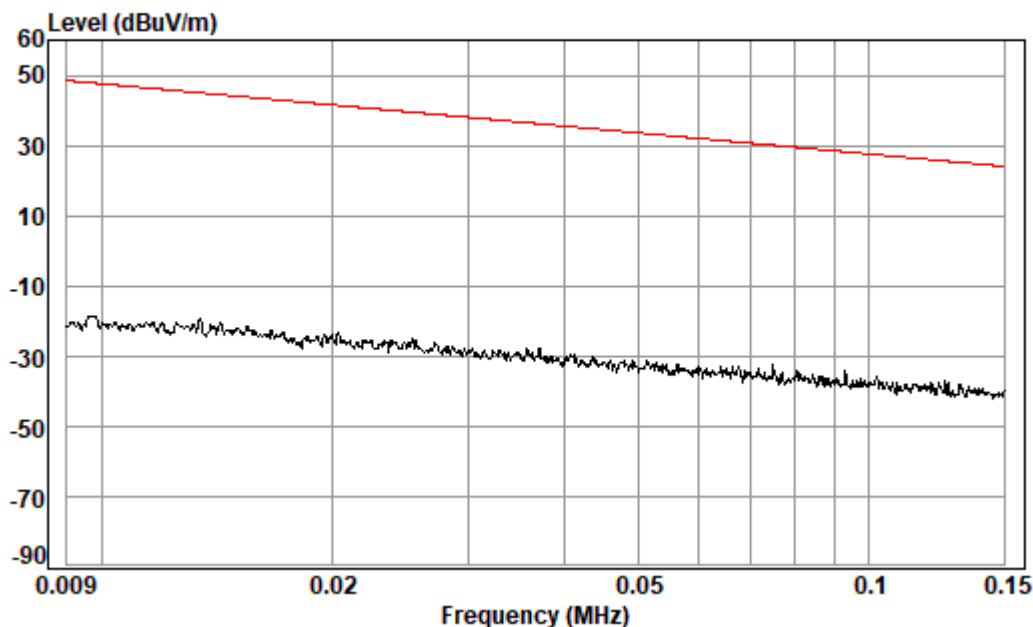
Job No. : 00202ET

Test Mode: 01

: coaxial



Test Mode: 01; Polarity: Coplanar



Condition: 3m

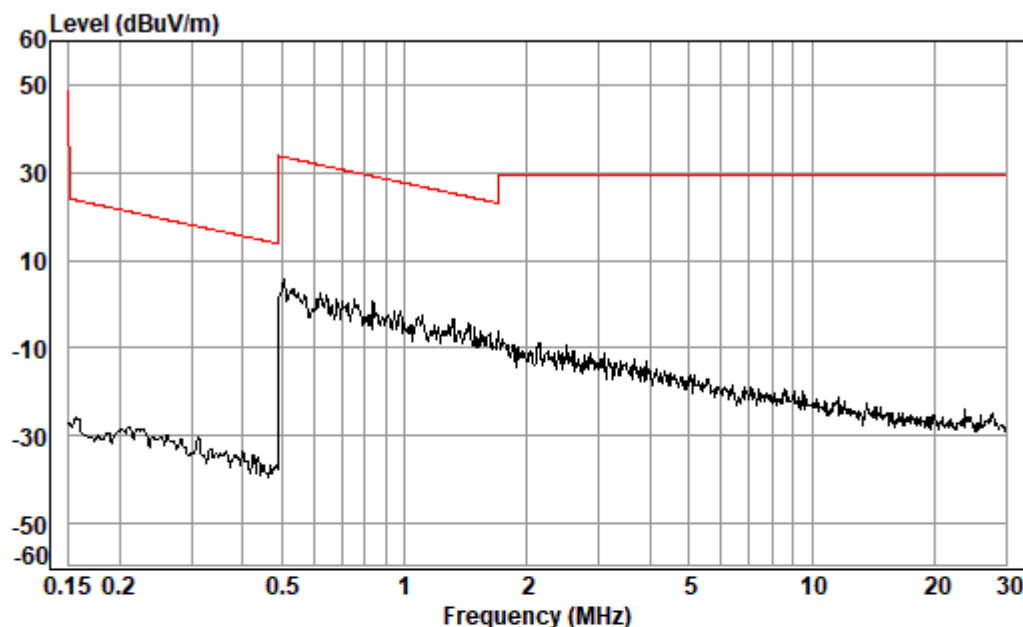
Job No. : 00202ET

Test Mode: 01

: coplanar



Test Mode: 01; Polarity: Coplanar



Condition: 3m

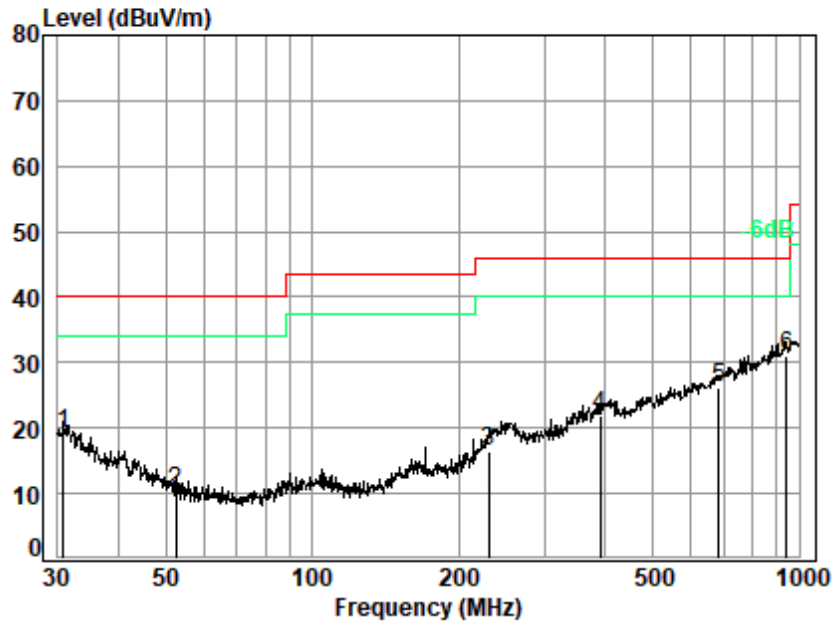
Job No. : 00202ET

Test Mode: 01

: coplanar



Test Mode: 01; Polarity: Horizontal

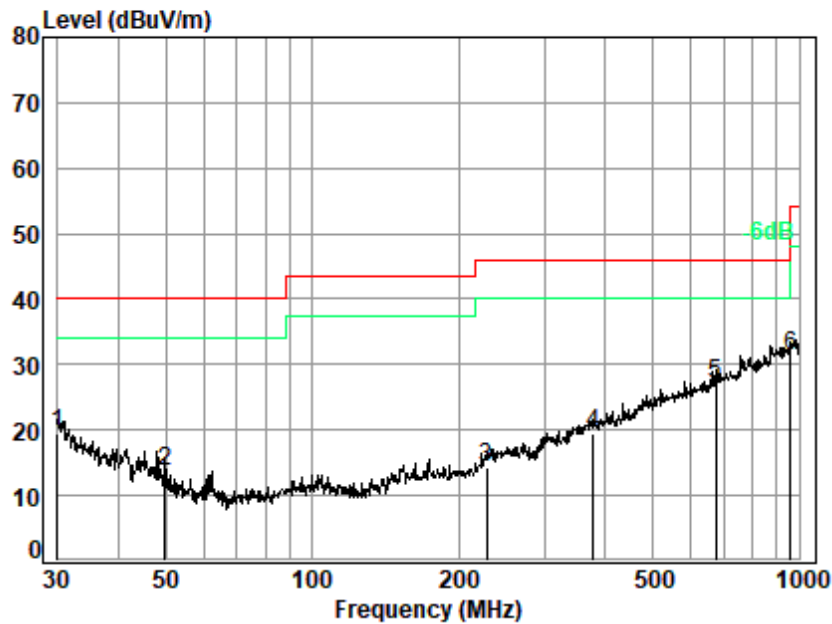


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00202ET/00203ET
Test Mode: 01

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.853	21.01	0.75	27.65	24.96	19.07	40.00	-20.93 QP
2	52.391	12.56	0.91	27.63	24.61	10.45	40.00	-29.55 QP
3	230.099	16.73	1.84	27.70	25.64	16.51	46.00	-29.49 QP
4	390.723	20.38	2.46	27.73	26.72	21.83	46.00	-24.17 QP
5	684.745	25.66	3.37	27.87	24.89	26.05	46.00	-19.95 QP
6 q	942.131	29.01	4.06	26.72	24.77	31.12	46.00	-14.88 QP



Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00202ET/00203ET
Test Mode: 01

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.45	0.74	27.65	24.91	19.45	40.00	-20.55 QP
2	49.881	13.07	0.90	27.63	27.25	13.59	40.00	-26.41 QP
3	227.691	16.33	1.83	27.70	23.86	14.32	46.00	-31.68 QP
4	377.259	20.46	2.41	27.70	24.38	19.55	46.00	-26.45 QP
5	675.208	25.53	3.34	27.89	26.18	27.16	46.00	-18.84 QP
6 q	958.794	29.31	4.09	26.63	24.69	31.46	46.00	-14.54 QP



7.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 1-18GHz: 3m; Above 18GHz: 1m
 Test Engineer: Logic Wang

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.5.1 E.U.T. Operation

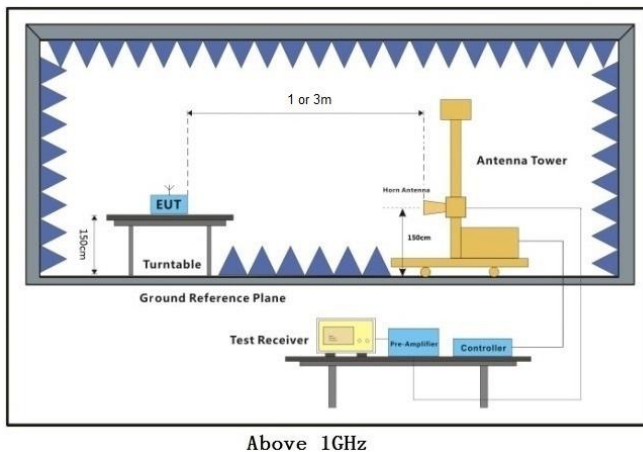
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(car) in transmitting with modulation mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- a. 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. The EUT was set 3 meters away from the interference-receiving antenna from 1GHz to 18GHz, and 1 meter away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added for the frequency above 18GHz once a closer distance used.

Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1 meter test distance).

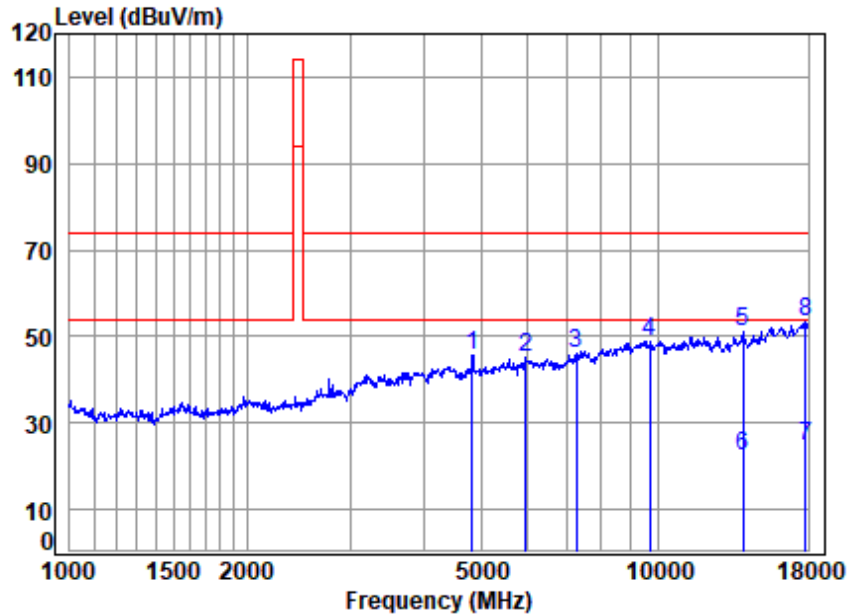
2. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low

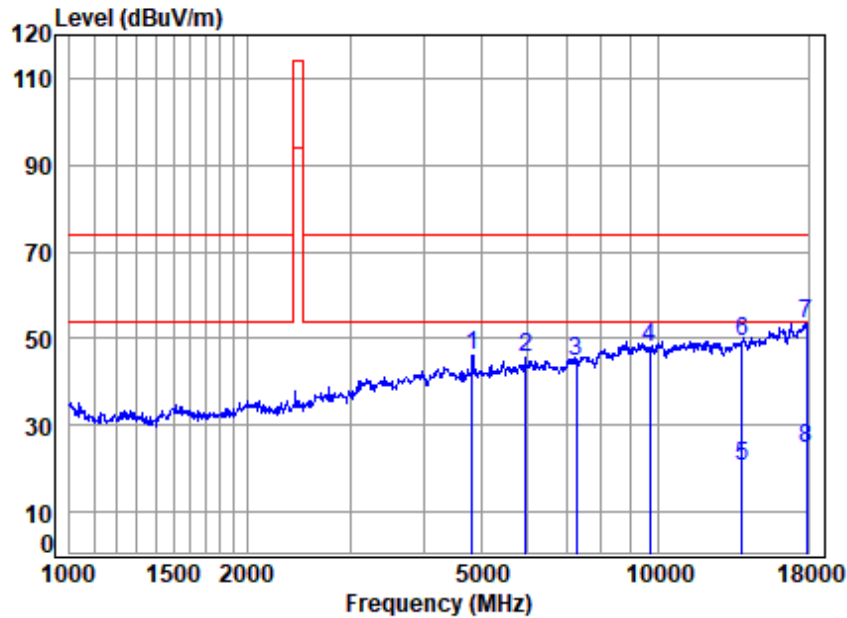


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2420 TX RSE

	Freq	Cable	Ant	Preamp	Read	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4840.000	7.44	34.46	54.21	57.99	45.68	74.00	-28.32 Peak	0.00
2	5967.033	8.88	34.77	53.13	54.73	45.25	74.00	-28.75 Peak	0.00
3	7260.000	8.48	35.70	53.17	55.15	46.16	74.00	-27.84 Peak	0.00
4	9680.000	10.72	37.50	53.32	53.88	48.78	74.00	-25.22 Peak	0.00
5	13957.530	10.97	39.62	52.91	53.53	51.21	74.00	-22.79 Peak	0.00
6	13957.530	10.97	39.62	52.91	24.59	22.27	54.00	-31.73 Average	0.00
7	q17844.590	11.41	43.90	52.48	21.77	24.60	54.00	-29.40 Average	0.00
8	p17844.590	11.41	43.90	52.48	50.71	53.54	74.00	-20.46 Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low

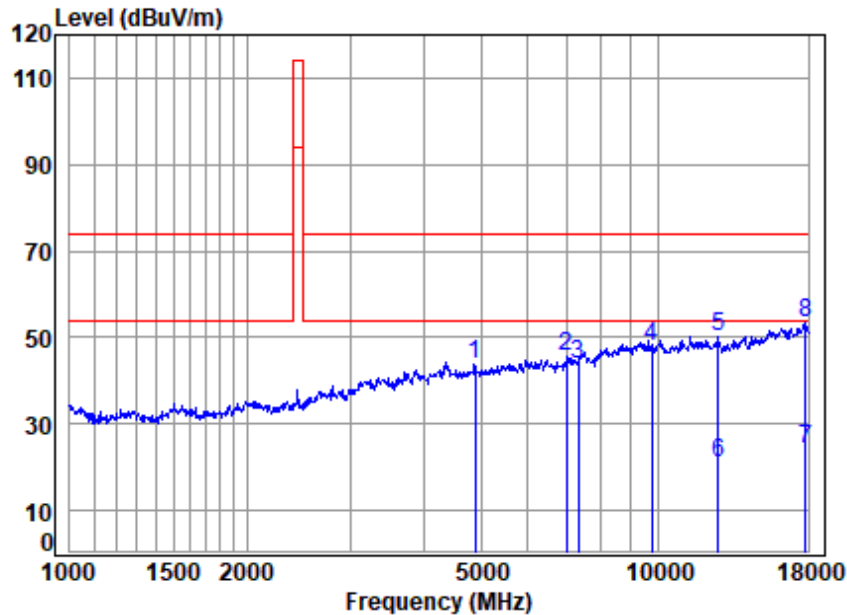


Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2420 TX RSE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4840.000	7.44	34.46	54.21	58.40	46.09	74.00	-27.91	Peak	0.00
2	5949.811	8.86	34.70	53.15	55.32	45.73	74.00	-28.27	Peak	0.00
3	7260.000	8.48	35.70	53.17	53.52	44.53	74.00	-29.47	Peak	0.00
4	9680.000	10.72	37.50	53.32	53.09	47.99	74.00	-26.01	Peak	0.00
5	13917.240	10.97	39.53	52.92	22.92	20.50	54.00	-33.50	Average	0.00
6	13917.240	10.97	39.53	52.92	51.86	49.44	74.00	-24.56	Peak	0.00
7	p17896.250	11.44	43.90	52.45	50.54	53.43	74.00	-20.57	Peak	0.00
8	q17896.250	11.44	43.90	52.45	21.60	24.49	54.00	-29.51	Average	0.00



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle

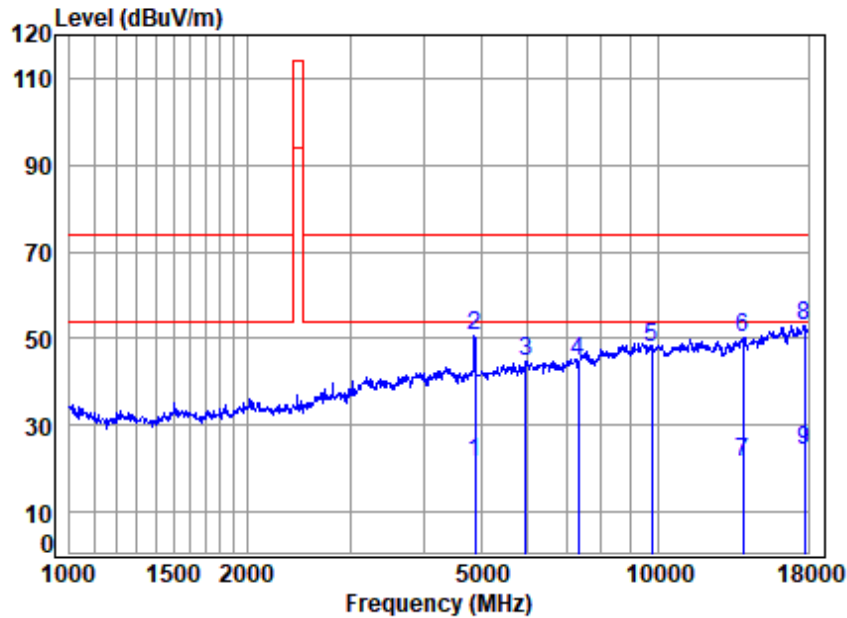


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2440 TX RSE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4880.000	7.47	34.62	54.21	56.02	43.90	74.00	-30.10	Peak	0.00
2	6974.982	8.58	35.75	53.20	54.49	45.62	74.00	-28.38	Peak	0.00
3	7320.000	8.46	35.70	53.17	52.96	43.95	74.00	-30.05	Peak	0.00
4	9760.000	10.69	37.38	53.29	53.13	47.91	74.00	-26.09	Peak	0.00
5	12651.130	11.30	38.00	53.20	54.05	50.15	74.00	-23.85	Peak	0.00
6	12651.130	11.30	38.00	53.20	25.11	21.21	54.00	-32.79	Average	0.00
7	q17793.090	11.38	43.89	52.50	21.60	24.37	54.00	-29.63	Average	0.00
8	p17793.090	11.38	43.89	52.50	50.54	53.31	74.00	-20.69	Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle

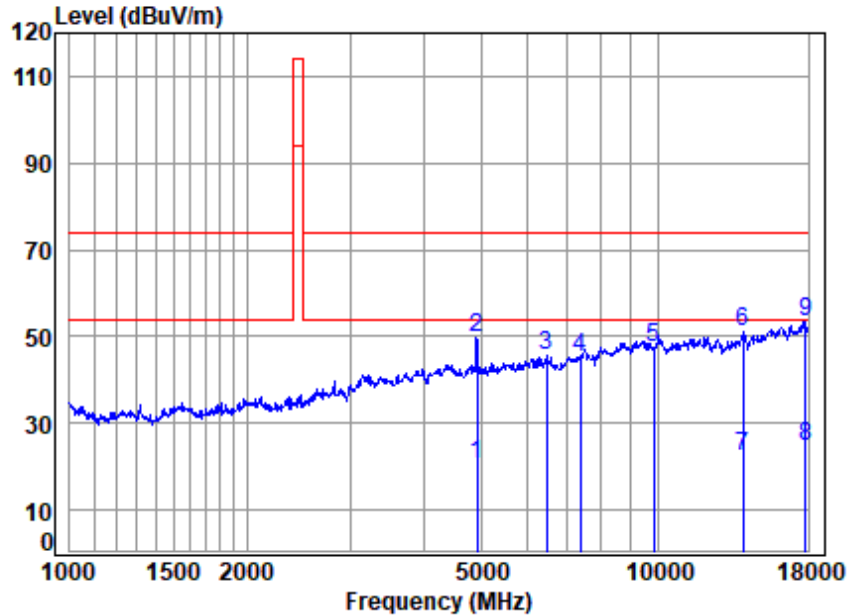


Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2440 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4880.000	7.47	34.62	54.21	33.66	21.54	54.00	-32.46	Average	0.00
2	4880.000	7.47	34.62	54.21	62.60	50.48	74.00	-23.52	Peak	0.00
3	5949.811	8.86	34.70	53.15	54.49	44.90	74.00	-29.10	Peak	0.00
4	7320.000	8.46	35.70	53.17	53.53	44.52	74.00	-29.48	Peak	0.00
5	9760.000	10.69	37.38	53.29	53.35	48.13	74.00	-25.87	Peak	0.00
6	13957.530	10.97	39.62	52.91	52.73	50.41	74.00	-23.59	Peak	0.00
7	13957.530	10.97	39.62	52.91	23.79	21.47	54.00	-32.53	Average	0.00
8	p17741.740	11.35	43.84	52.53	50.37	53.03	74.00	-20.97	Peak	0.00
9	q17741.740	11.35	43.84	52.53	21.43	24.09	54.00	-29.91	Average	0.00



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High

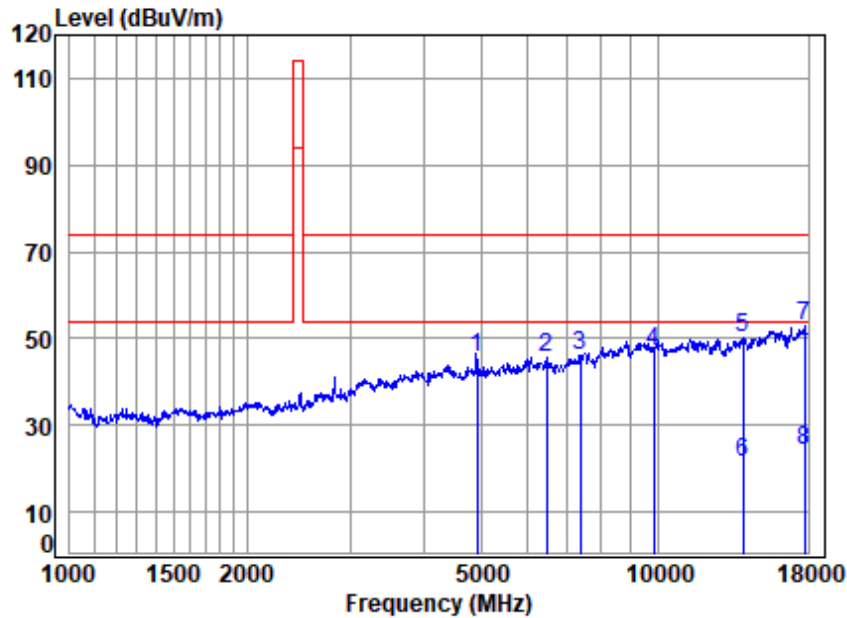


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2462 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4924.000	7.50	34.65	54.21	32.65	20.59	54.00	-33.41	Average	0.00
2	4924.000	7.50	34.65	54.21	61.59	49.53	74.00	-24.47	Peak	0.00
3	6470.026	8.88	35.54	53.15	54.15	45.42	74.00	-28.58	Peak	0.00
4	7386.000	8.44	35.77	53.16	54.24	45.29	74.00	-28.71	Peak	0.00
5	9848.000	10.66	37.20	53.26	52.72	47.32	74.00	-26.68	Peak	0.00
6	13957.530	10.97	39.62	52.91	53.60	51.28	74.00	-22.72	Peak	0.00
7	13957.530	10.97	39.62	52.91	24.66	22.34	54.00	-31.66	Average	0.00
8	q17793.090	11.38	43.89	52.50	21.77	24.54	54.00	-29.46	Average	0.00
9	p17793.090	11.38	43.89	52.50	50.71	53.48	74.00	-20.52	Peak	0.00



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2462 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4924.000	7.50	34.65	54.21	57.63	45.57	74.00	-28.43	Peak	0.00
2	6470.026	8.88	35.54	53.15	54.37	45.64	74.00	-28.36	Peak	0.00
3	7386.000	8.44	35.77	53.16	54.89	45.94	74.00	-28.06	Peak	0.00
4	9848.000	10.66	37.20	53.26	52.51	47.11	74.00	-26.89	Peak	0.00
5	13957.530	10.97	39.62	52.91	52.54	50.22	74.00	-23.78	Peak	0.00
6	13957.530	10.97	39.62	52.91	23.60	21.28	54.00	-32.72	Average	0.00
7	p17741.740	11.35	43.84	52.53	50.36	53.02	74.00	-20.98	Peak	0.00
8	q17741.740	11.35	43.84	52.53	21.42	24.08	54.00	-29.92	Average	0.00



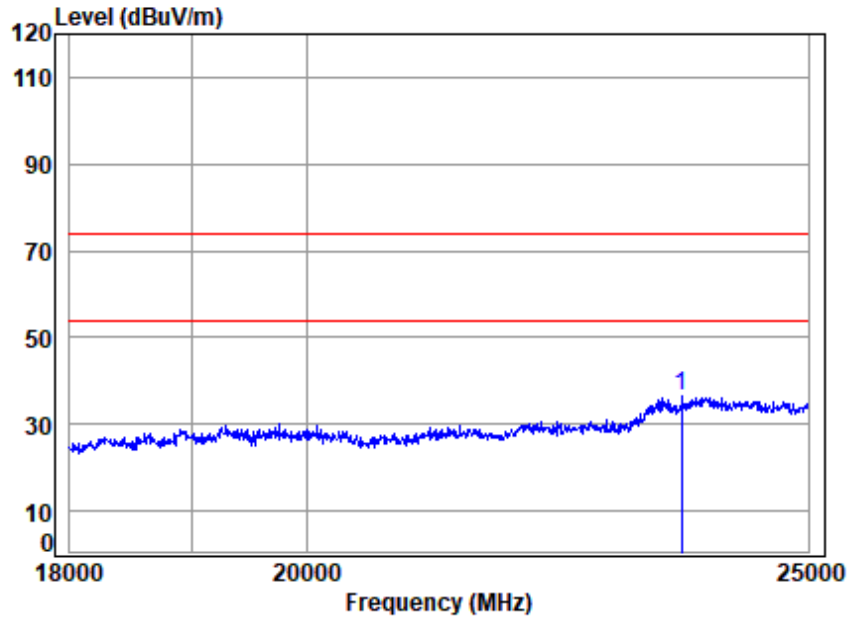
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00202ET\00203ET
Mode : 2440 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p23634.360	6.77	38.76	50.33	50.67	36.33	74.00	-37.67	Peak	-9.54



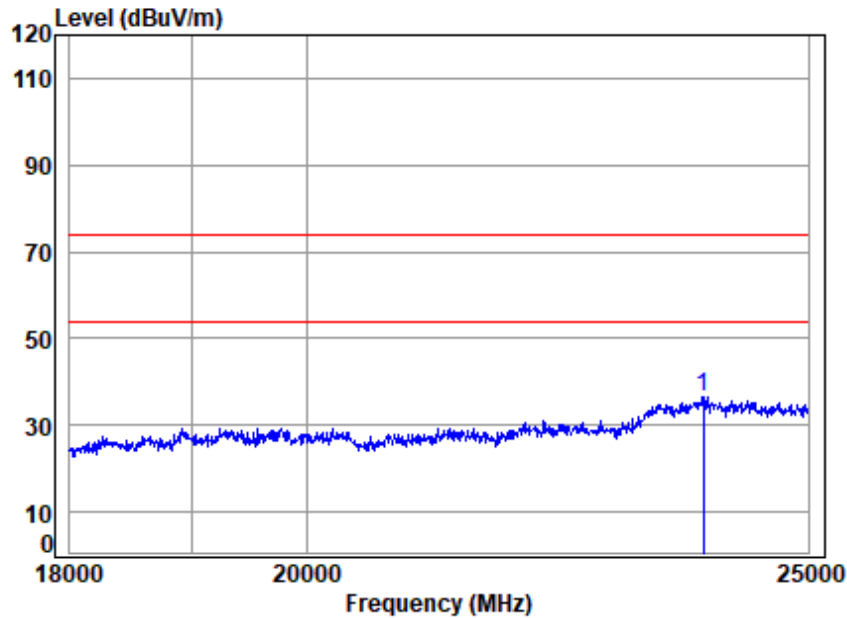
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00202ET\00203ET
Mode : 2440 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p23860.590	6.77	38.94	50.37	50.76	36.56	74.00	-37.44	Peak -9.54



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2601000202ET(car)

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_ external and internal photos for SZCR2601000202ET(car)

- End of the Report -

