TEST REPORT

Application No.:	BTEK260416006A01E01
Applicant:	HITRONS INTELLIGENCE LIMITED
Address of Applicant:	Unit 620 6F Building 16W Phase Three Hong Kong Science ParkPak Shek Kok New Territories Hong Kong SAR
Manufacturer:	Hitrons Intelligence (Shenzhen) Limited
Address of Manufacturer:	D20 Unit 210 2nd Floor Building A Nengjianheng No. 32 Shihua RoadFubao Community Fubao Street Futian District Shenzhen China
Equipment Under Test (EUT):	
EUT Name:	DR H Smart glasses
Test Model.:	DR H-G13
Adding Model(s):	DR H-G13-36A, DR H-G13-37A, DR H-G13-39A, DR H-G13-40A, DR H-G13-41A, DR H-G13-42A, DR H-G13-44A, DR H-G13-45A, DR H-G13-46A
Trade Mark:	DR HHH
FCC ID:	2BTOE-DR-H-G13
Standard(s) :	47 CFR Part 15, Subpart C 15.247 KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020
Date of Receipt Sample(s):	2026-04-20
Date of Test:	2026-04-20 to 2026-09-30
Date of Issue:	2026-09-30
Test Result:	**Pass***

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

Alex Wang / Approved & Authorized
EMC Laboratory Manager

Revision Record			
Version	**Issue Date**	**Revisions**	**Remarks**
V0	2026-09-30	Initial	Valid

Authorized for issue by:				
		Zora Huang **Zora Huang / File Editor**		
		June Li **June Li/Reviewer**		

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Test Summary

Radio Spectrum Technical Requirement				
Standard	**Item**	**Method**	**Requirement**	**Result**
47 CFR Part 15, Subpart C 15.247	Antenna Requirement	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Standard	**Item**	**Method**	**Requirement**	**Result**
47 CFR Part 15, Subpart C 15.247	Conducted Emissions at AC Power Line (150kHz-30MHz)	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A
	Conducted Peak Output Power	ANSI C63.10 (2020) Section 11.9	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
	Minimum 6dB Bandwidth	ANSI C63.10 (2020) Section 11.8	47 CFR Part 15, Subpart C 15.247a(2)	Pass
	Power Spectrum Density	ANSI C63.10 (2020) Section 11.10	47 CFR Part 15, Subpart C 15.247(e)	Pass
	Conducted Band Edges Measurement	ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Conducted Spurious Emissions	ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Radiated Emissions which fall in the restricted bands	ANSI C63.10 (2020) Section 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
	Radiated Spurious Emissions	ANSI C63.10 (2020) Section 6.3 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery:3.8V⎓ 55mAh 0.21Wh
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.4
Modulation Type:	GFSK
Channel Spacing:	2MHz
Data Rate:	1Mbps
Number of Channels:	40
Antenna Type:	Chip Antenna
Antenna Gain:	2.7dBi
Sample No.:	BTEK260416006-004
Model(s) Difference Statement	☐ Single Model.
	☒ Multi-Models:DR H-G13, DR H-G13-36A, DR H-G13-37A, DR H-G13-39A, DR H-G13-40A, DR H-G13-41A, DR H-G13-42A, DR H-G13-44A, DR H-G13-45A, DR H-G13-46A Only the model DR H-G13 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No

4.2 EUT Test Mode and Test Condition

Test Mode	Description	Remark
1	Low/mid/High Channel	2402MHz/2440MHz/2480MHz
Remark:1.only show the worst case in the test report.		

Channel Frequency Tabel:

BLE	
Channel	Frequency (MHz)
00	2402
01	2404
19	2440
38	2478
39	2480

Test Conditions	
Temperature:	21.8 °C
Relative Humidity:	62 %
ATM Pressure:	1014 mbar

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)

4.4 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.
A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104
Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200
FCC Registration Number: 264293
Designation Number: CN1356
No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

5 Equipment List

RF Conducted					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT-220304-03	2025-02-15	2028-02-14
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
DC Power Supply	E3632A	E3642A	KR75304416	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Attenuator	RswTech	SMA-JK-6dB	N/A	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Attenuator	RswTech	SMA-JK-3dB	N/A	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
RF Control Unit	Techy	TR1029-1	N/A	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
RF Sensor Unit	Techy	TR1029-2	N/A	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	141258	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A

RSE					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT-220304-01	2025-02-15	2028-02-14
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025-06-18	2026-06-17
				2026-06-17	2027-06-16

Low Noise Pre-amplifier	SKET	LNPA-1840G-50	SK2022032902	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Loop Antenna	ETS	6502	00201177	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	LMR400UF-NMNM-7.00M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	LMR400UF-NMNM-2.50M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	LMR400UF-NMNM-3.00M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	SFT205PUR-MNSWSM-7.00M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	SFT205PUR-MNSWSM-2.50M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	SFT205PUR-MNSWSM-2.50M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16
Cable	BTEK	SFT205PUR-MNSWSM-0.30M	/	2025-06-18	2026-06-17
				2026-06-17	2027-06-16

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

This product has a Chip antenna, fulfill the requirement of this section.

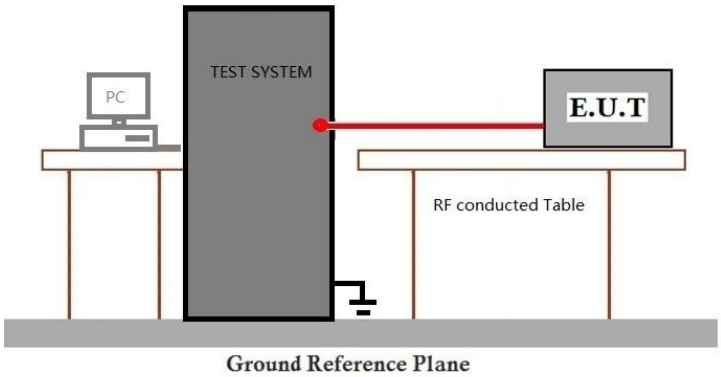
7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2020) Section 11.9
Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 Test Setup Diagram



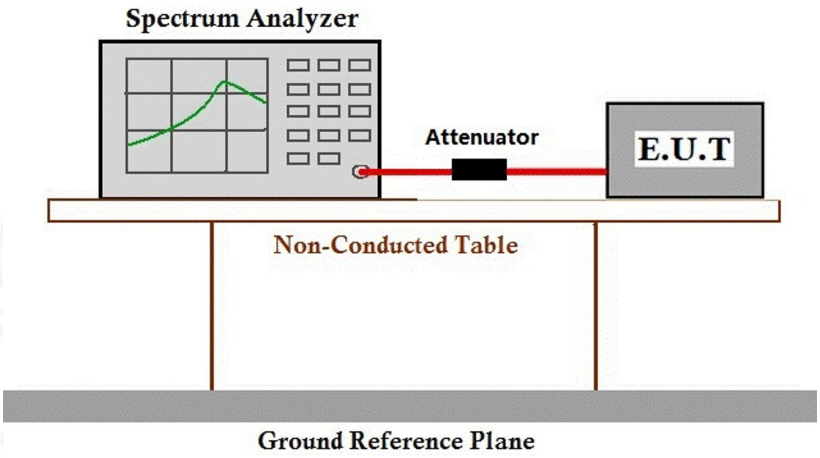
7.1.2 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2020) Section 11.8
Limit: ≥500 kHz

7.2.1 Test Setup Diagram



7.2.2 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 Power Spectrum Density

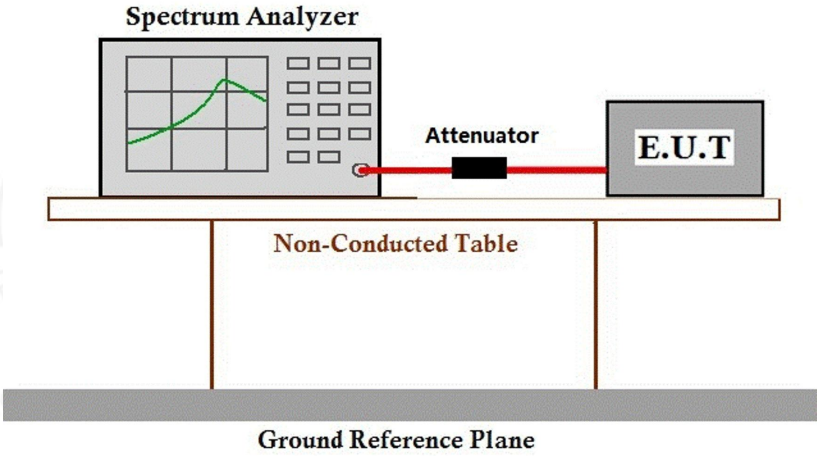
Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2020) Section 11.10

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 Test Setup Diagram



7.3.2 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 Conducted Band Edges Measurement

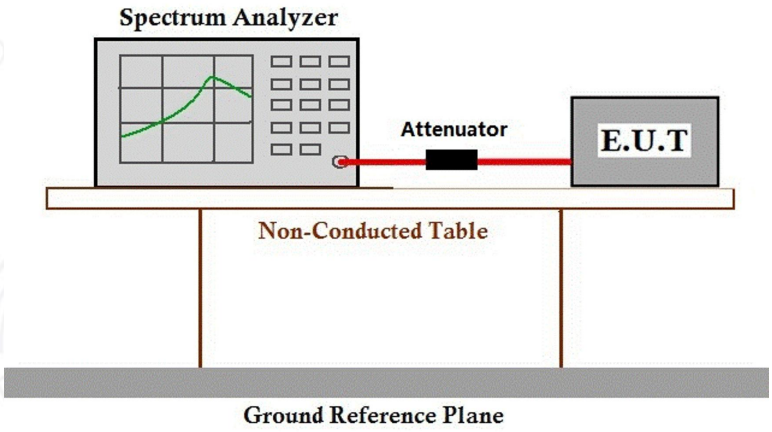
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.4.1 Test Setup Diagram



7.4.2 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Conducted Spurious Emissions

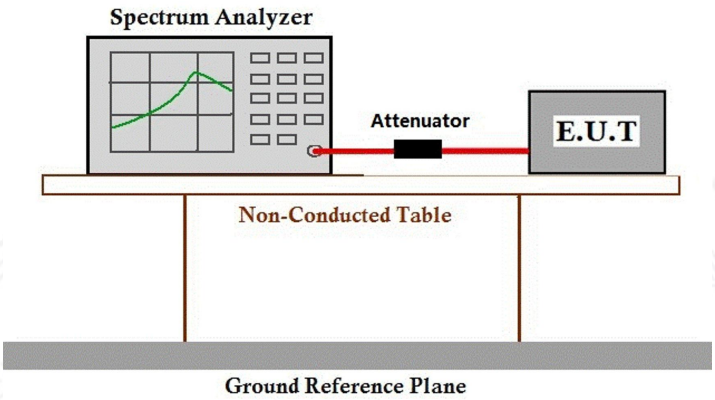
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 Test Setup Diagram



7.5.2 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Radiated Emissions which fall in the restricted bands

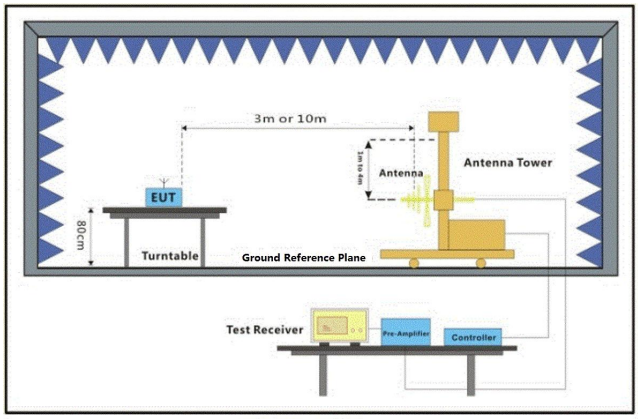
Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 11.12

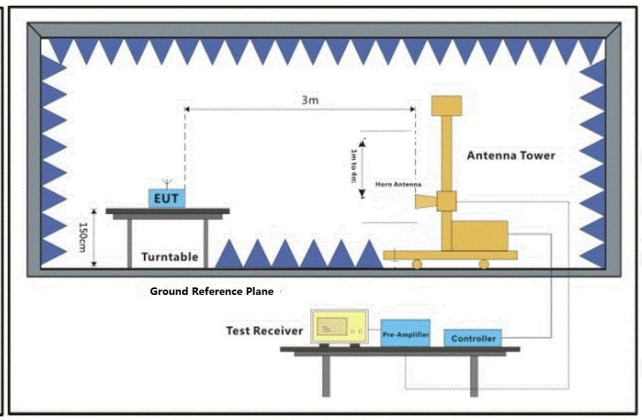
Limit:

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
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.		

7.6.1 Test Setup Diagram



30MHz-1GHz



Above 1GHz

7.6.2 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 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.

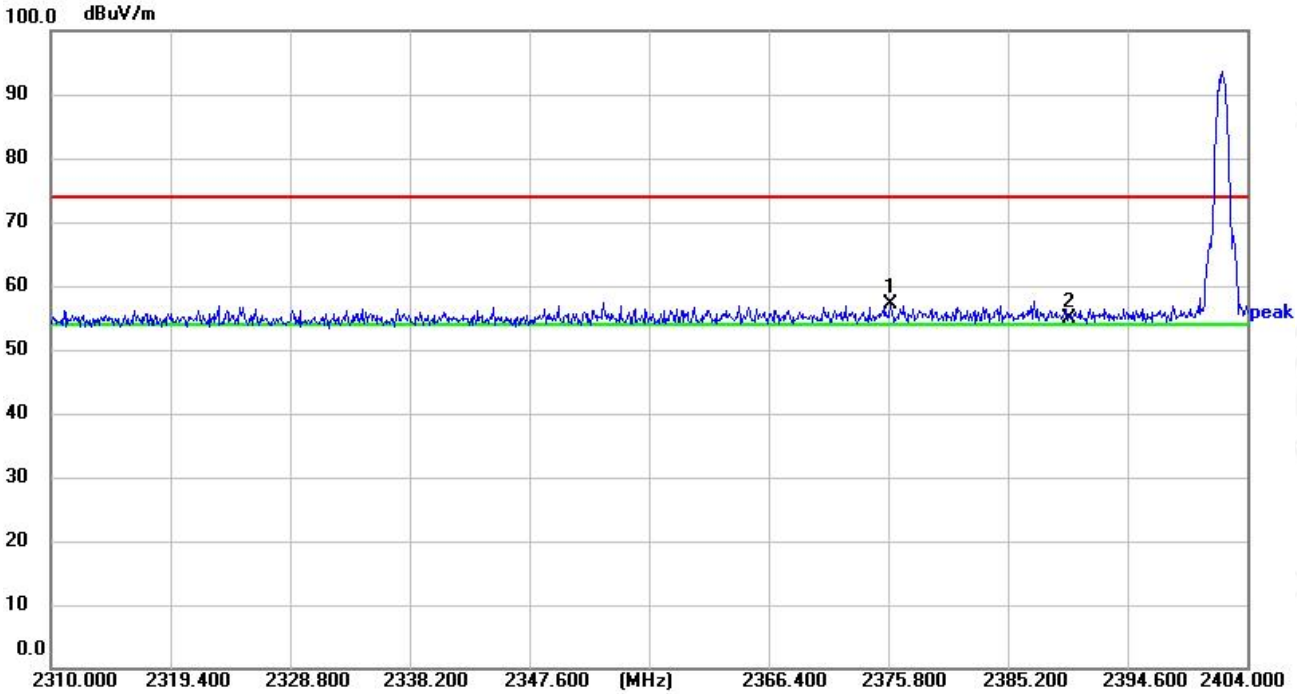
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp gain, Margin=Level-Limit

Remark 2: 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.

3. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

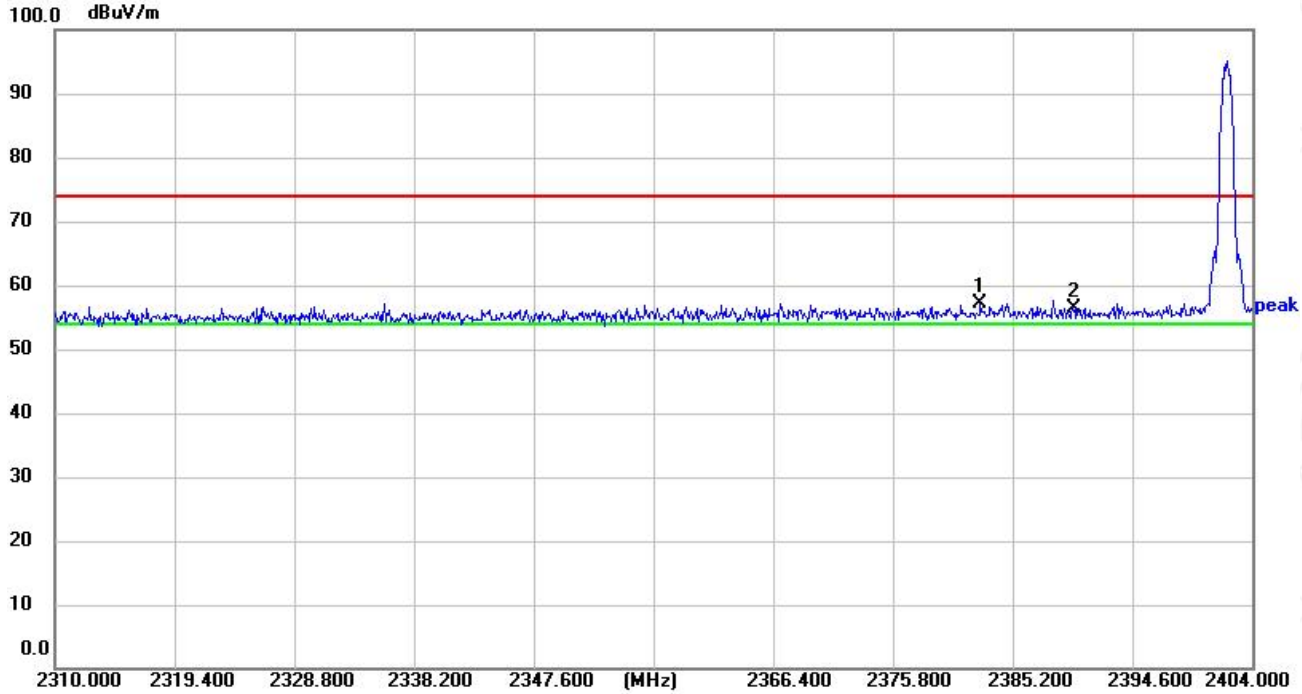
Left

Test Channel	Low	Polarity:	Horizontal



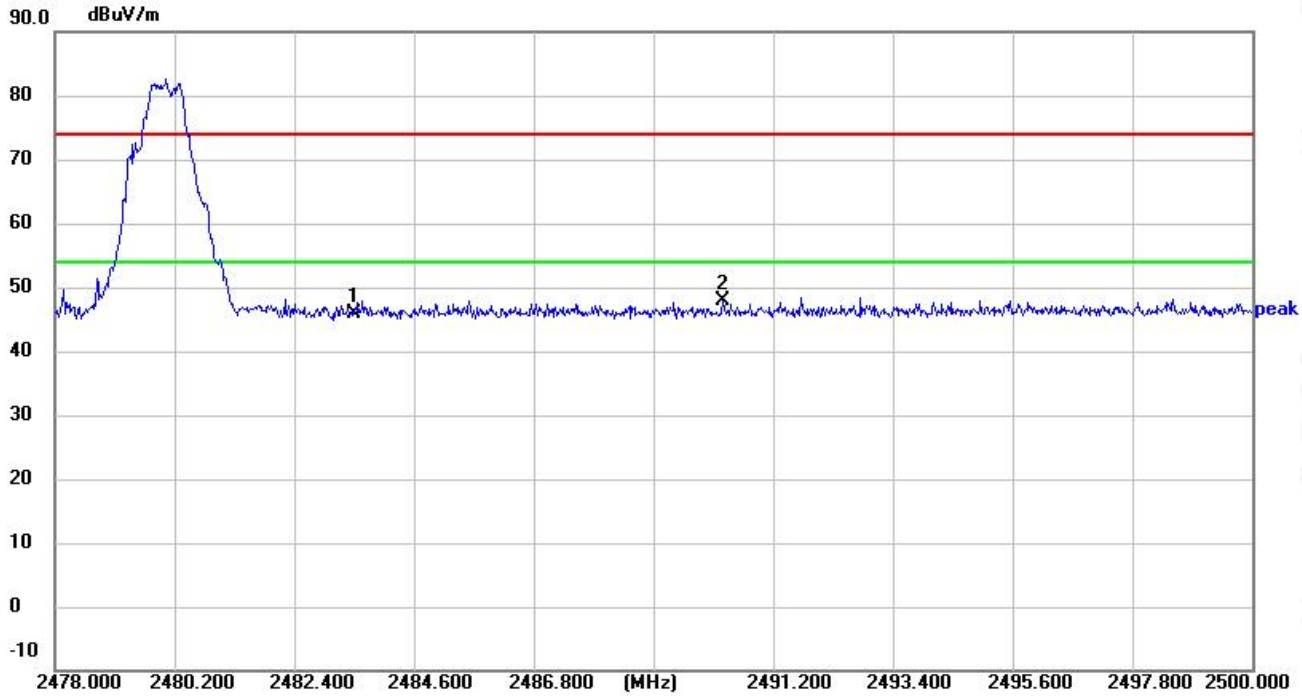
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2375.988	27.76	29.37	57.13	74.00	-16.87	peak	150	360	P	
2	2390.000	25.41	29.45	54.86	74.00	-19.14	peak	150	360	P	

Test Channel	Low	Polarity:	Vertical



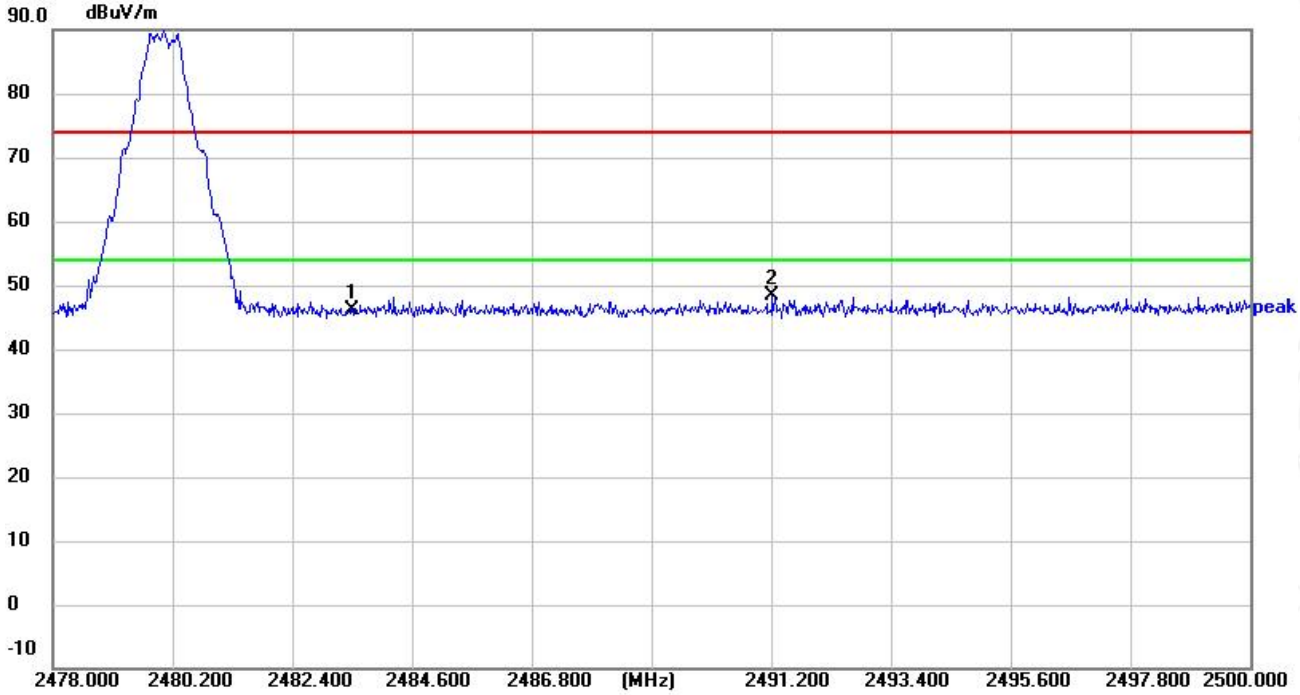
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2382.662	27.78	29.42	57.20	74.00	-16.80	peak	150	360	P	
2	2390.000	26.88	29.45	56.33	74.00	-17.67	peak	150	360	P	

Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	15.80	30.04	45.84	74.00	-28.16	peak	150	0	P	
2 *	2490.276	17.80	30.07	47.87	74.00	-26.13	peak	150	0	P	

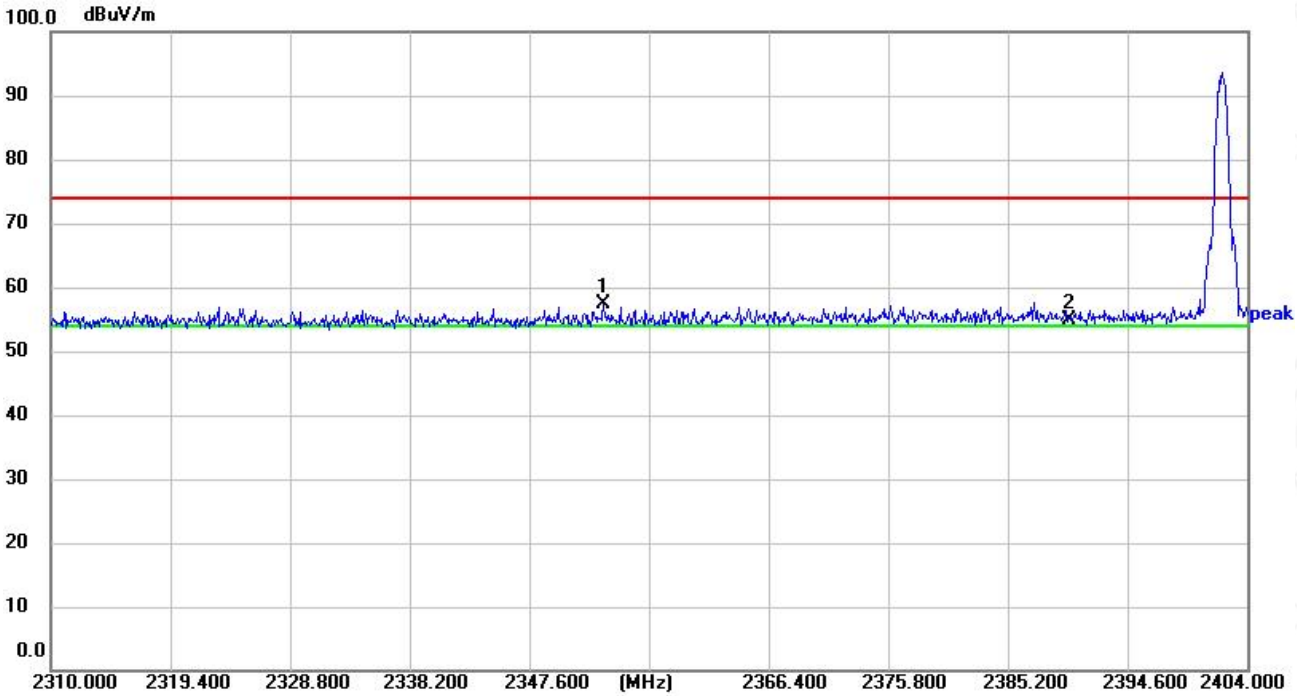
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	16.01	30.04	46.05	74.00	-27.95	peak	150	360	P	
2 *	2491.222	18.31	30.08	48.39	74.00	-25.61	peak	150	360	P	

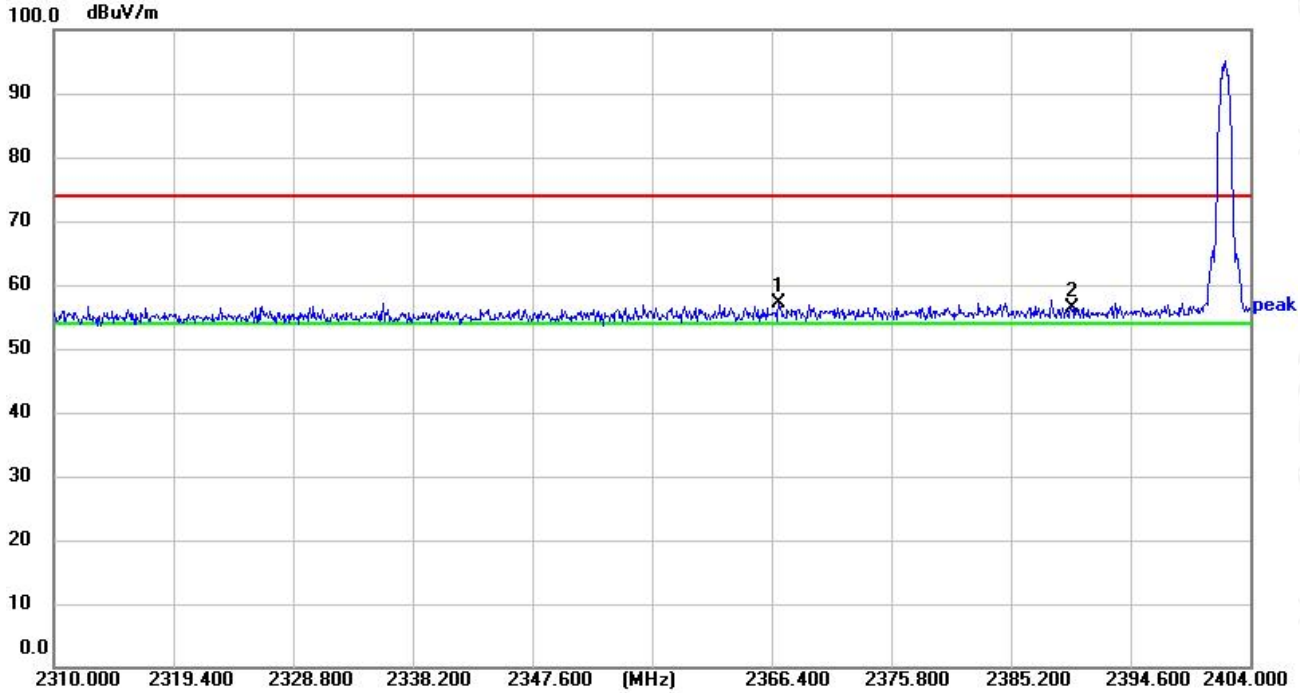
Right

Test Channel	Low	Polarity:	Horizontal



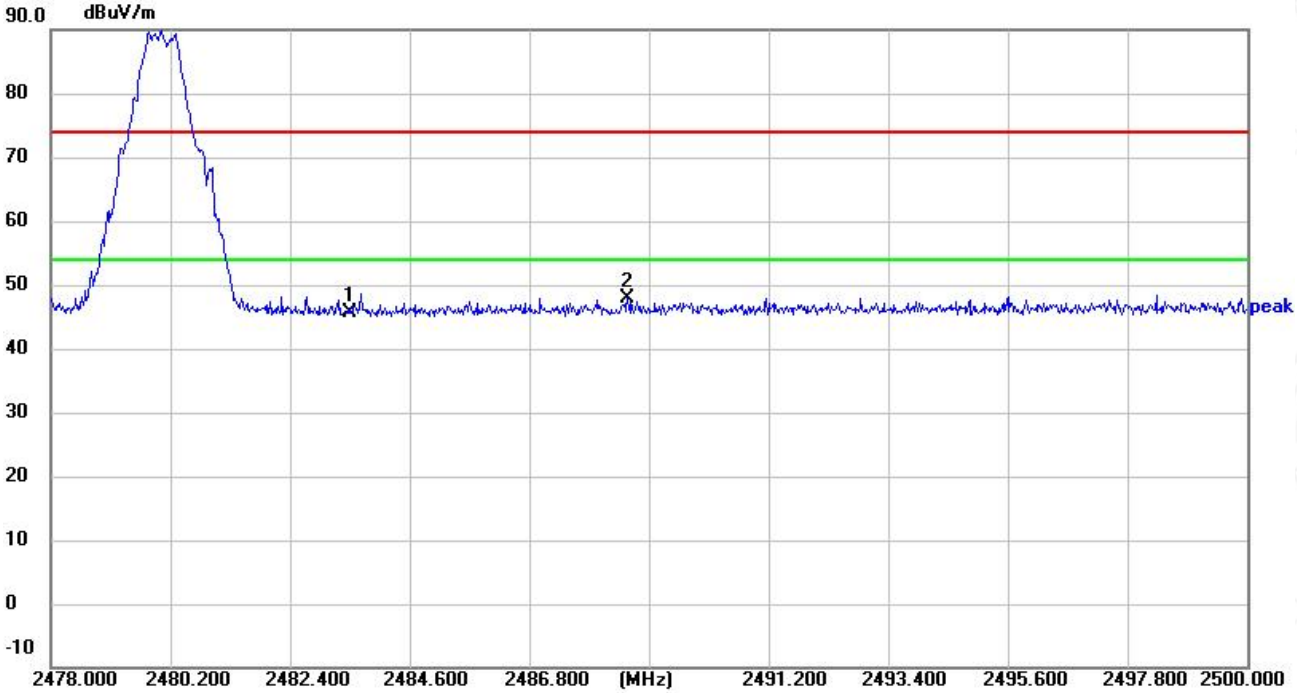
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2353.428	28.12	29.23	57.35	74.00	-16.65	peak	150	360	P	
2	2390.000	25.41	29.45	54.86	74.00	-19.14	peak	150	360	P	

Test Channel	Low	Polarity:	Vertical



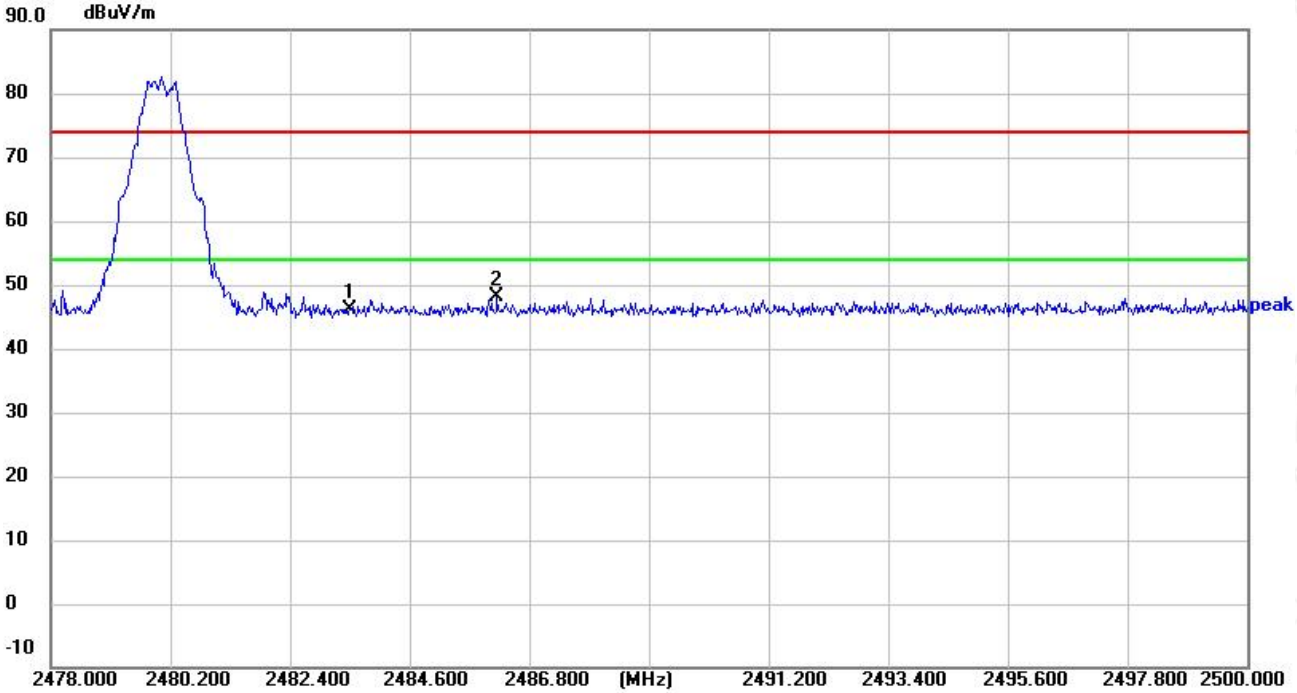
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2366.964	27.91	29.31	57.22	74.00	-16.78	peak	150	360	P	
2	2390.000	26.88	29.45	56.33	74.00	-17.67	peak	150	360	P	

Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	15.67	30.04	45.71	74.00	-28.29	peak	150	0	P	
2 *	2488.604	17.91	30.07	47.98	74.00	-26.02	peak	150	0	P	

Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	16.19	30.04	46.23	74.00	-27.77	peak	150	360	P	
2 *	2486.206	18.01	30.04	48.05	74.00	-25.95	peak	150	360	P	

7.7 Radiated Spurious Emissions

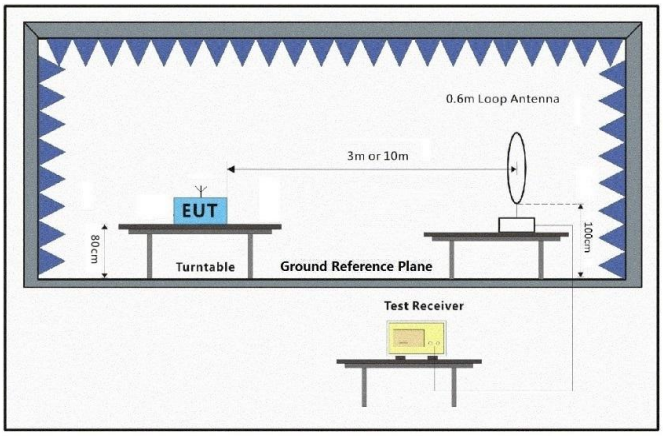
Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

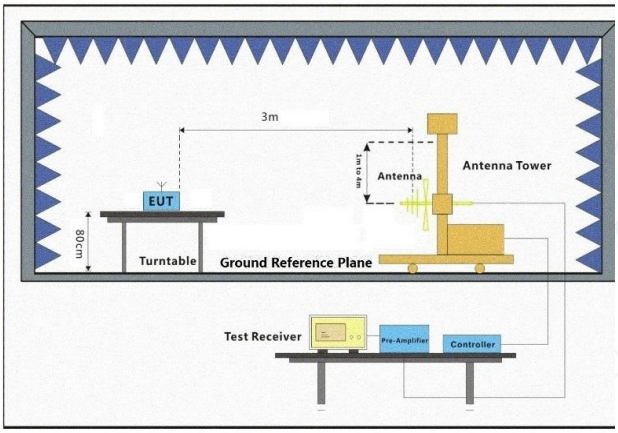
Test Method: ANSI C63.10 (2020) Section 6.3,6.4,6.5,6.6

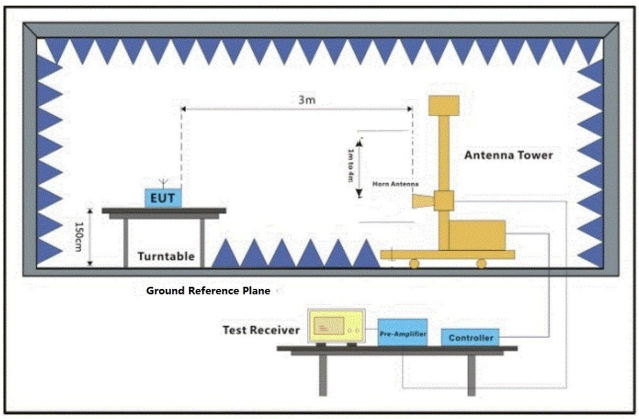
Limit:

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
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.		

7.7.1 Test Setup Diagram







Above 1GHz

7.7.2 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. 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.

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, quasi-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.

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.

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 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, quasi-peak or average method as specified and then reported in a data sheet.

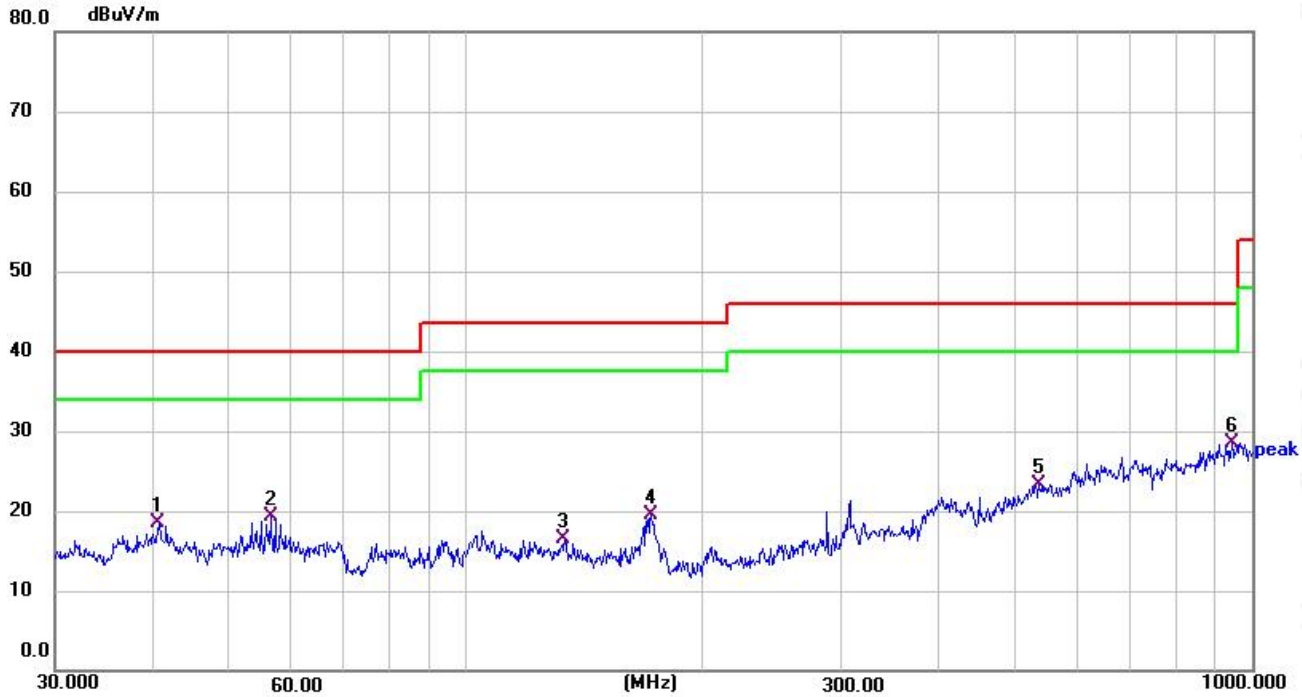
g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

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.

Spurious Emissions Below 1GHz

Test Channel	Low	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.7014	29.80	-11.36	18.44	40.00	-21.56	QP	100	360	P	
2	56.3947	31.70	-12.34	19.36	40.00	-20.64	QP	100	360	P	
3	133.6184	28.54	-12.00	16.54	43.50	-26.96	QP	100	360	P	
4	171.9944	31.93	-12.45	19.48	43.50	-24.02	QP	100	360	P	
5	535.7073	30.82	-7.60	23.22	46.00	-22.78	QP	100	360	P	
6 *	942.1304	30.20	-1.64	28.56	46.00	-17.44	QP	100	360	P	

Test Channel	Low	Polarity:	Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	57.1914	44.62	-12.47	32.15	40.00	-7.85	QP	100	0	P	
2	87.7245	29.52	-15.43	14.09	40.00	-25.91	QP	100	0	P	
3	135.9821	27.20	-11.33	15.87	43.50	-27.63	QP	100	0	P	
4	171.9944	37.16	-12.45	24.71	43.50	-18.79	QP	100	0	P	
5	383.9318	31.93	-9.70	22.23	46.00	-23.77	QP	100	0	P	
6	656.5300	33.40	-4.87	28.53	46.00	-17.47	QP	100	0	P	

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

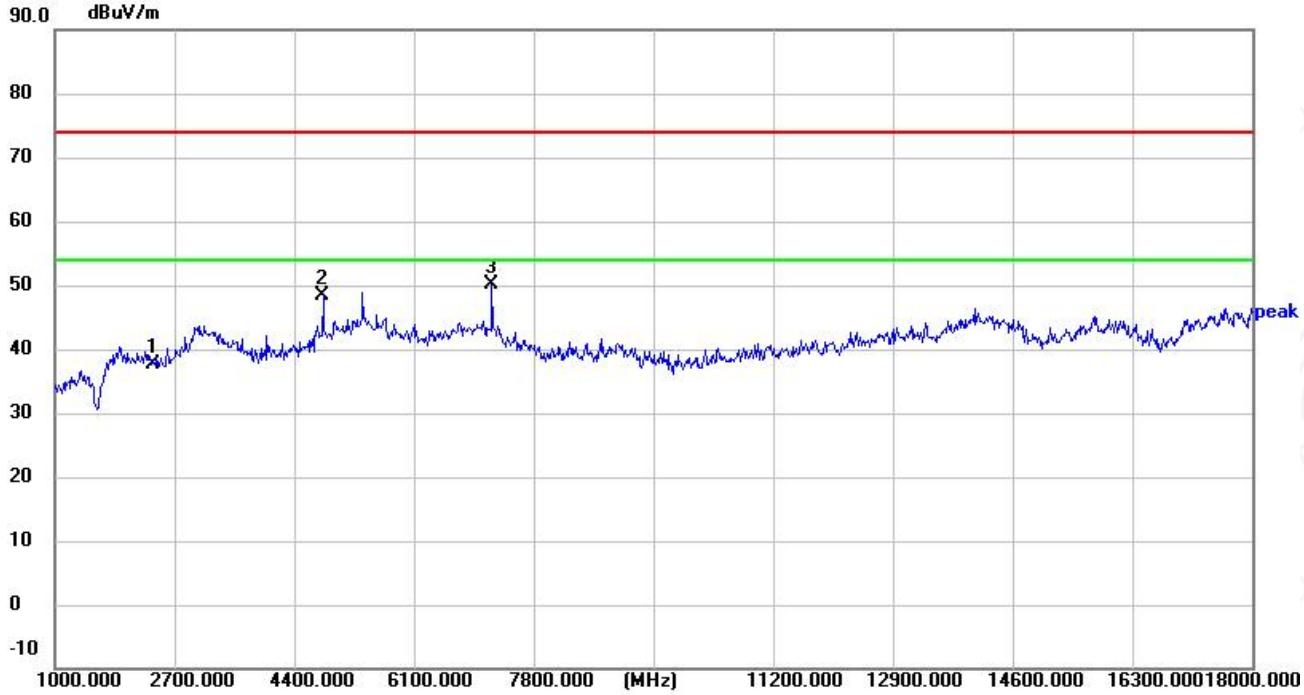
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre_amplifier gain.

3) Scan from 9kHz to 1 GHz, 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.

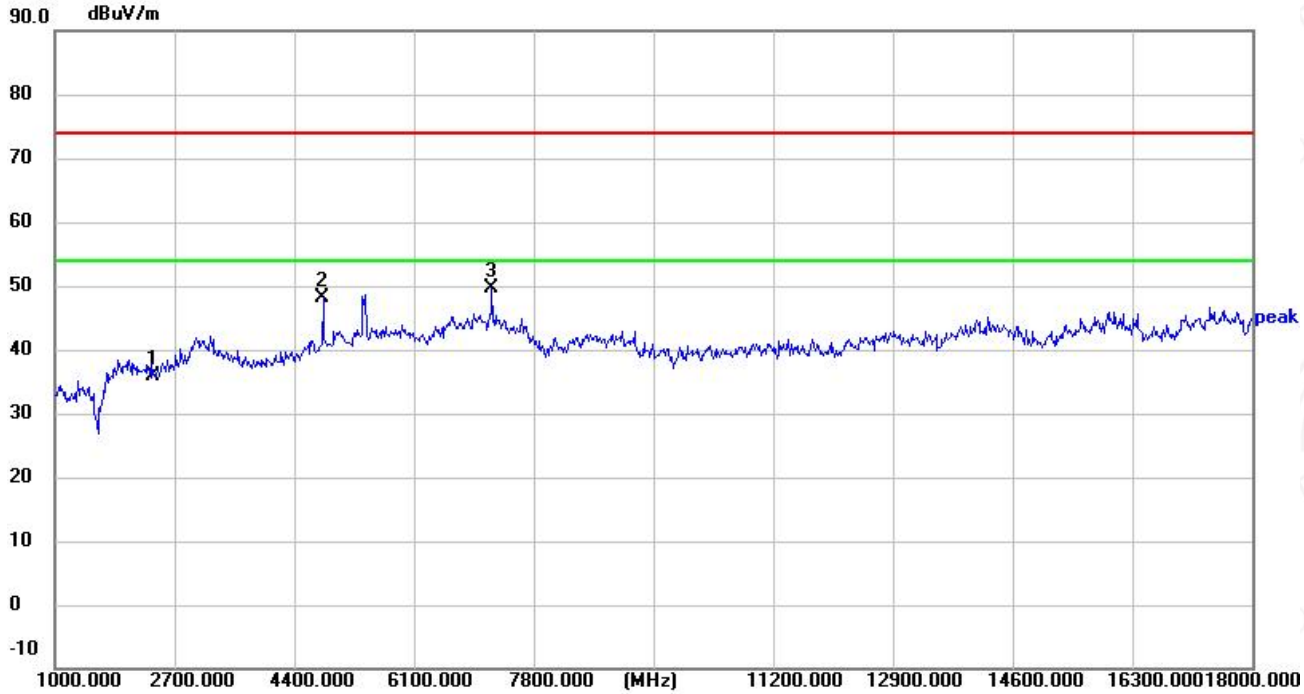
Above 1GHz
Left

Test Channel	Low	Polarity:	Horizontal



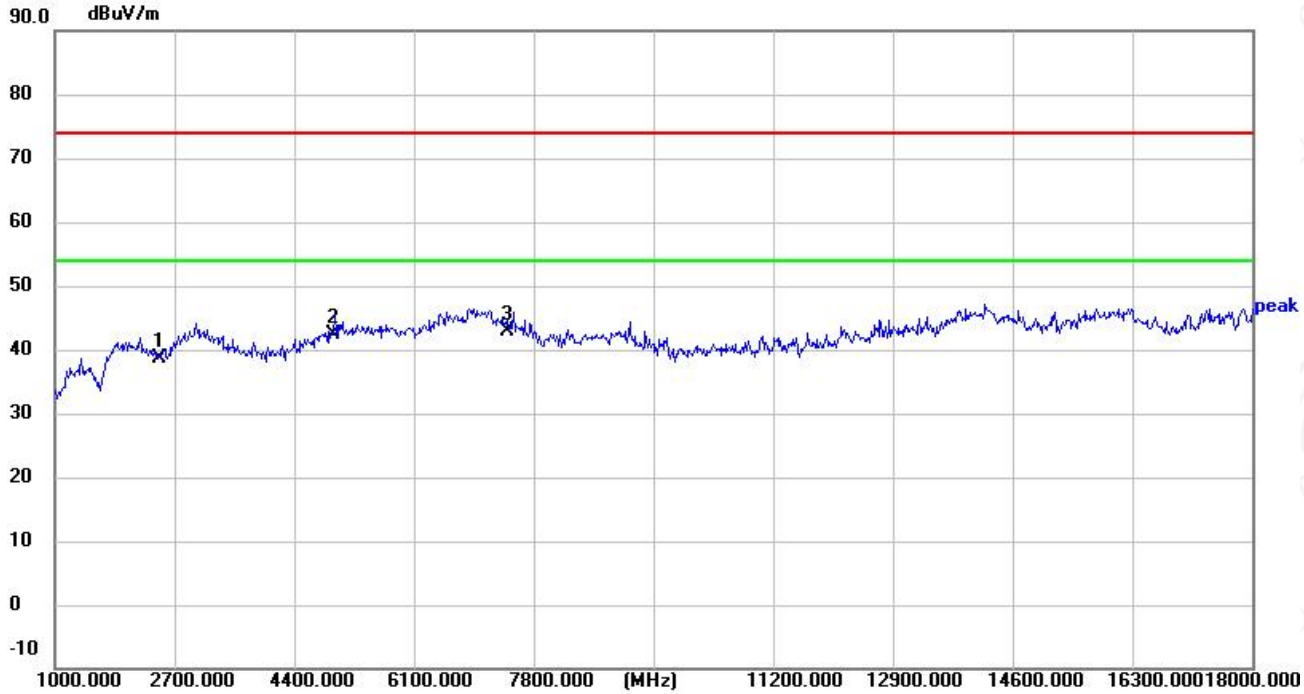
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2402.000	46.33	-8.70	37.63	74.00	-36.37	peak	150	360	P	
2	4804.000	52.23	-3.76	48.47	74.00	-25.53	peak	150	360	P	
3 *	7206.000	48.60	1.60	50.20	74.00	-23.80	peak	150	360	P	

Test Channel	Low	Polarity:	Vertical



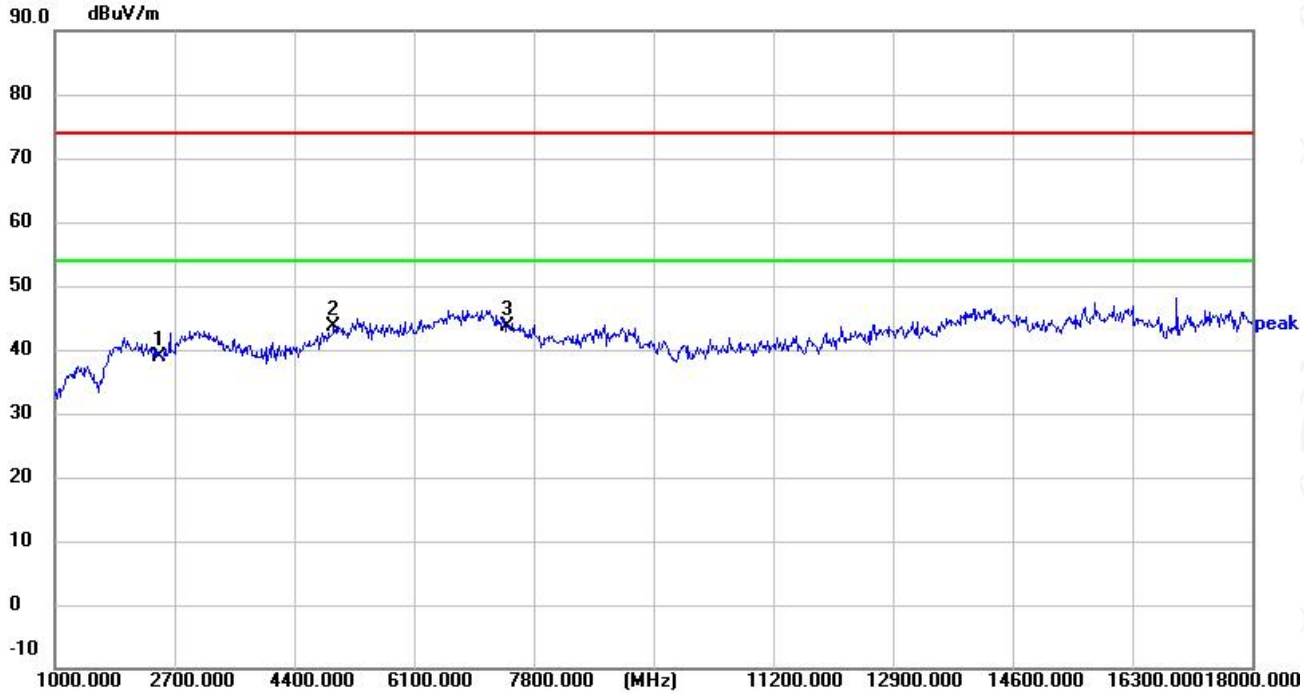
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2402.000	44.70	-8.70	36.00	74.00	-38.00	peak	150	0	P	
2	4804.000	51.89	-3.76	48.13	74.00	-25.87	peak	150	0	P	
3 *	7206.000	47.95	1.60	49.55	74.00	-24.45	peak	150	0	P	

Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2480.000	47.29	-8.69	38.60	74.00	-35.40	peak	150	360	P	
2	4960.000	45.17	-2.83	42.34	74.00	-31.66	peak	150	360	P	
3 *	7440.000	42.13	0.78	42.91	74.00	-31.09	peak	150	360	P	

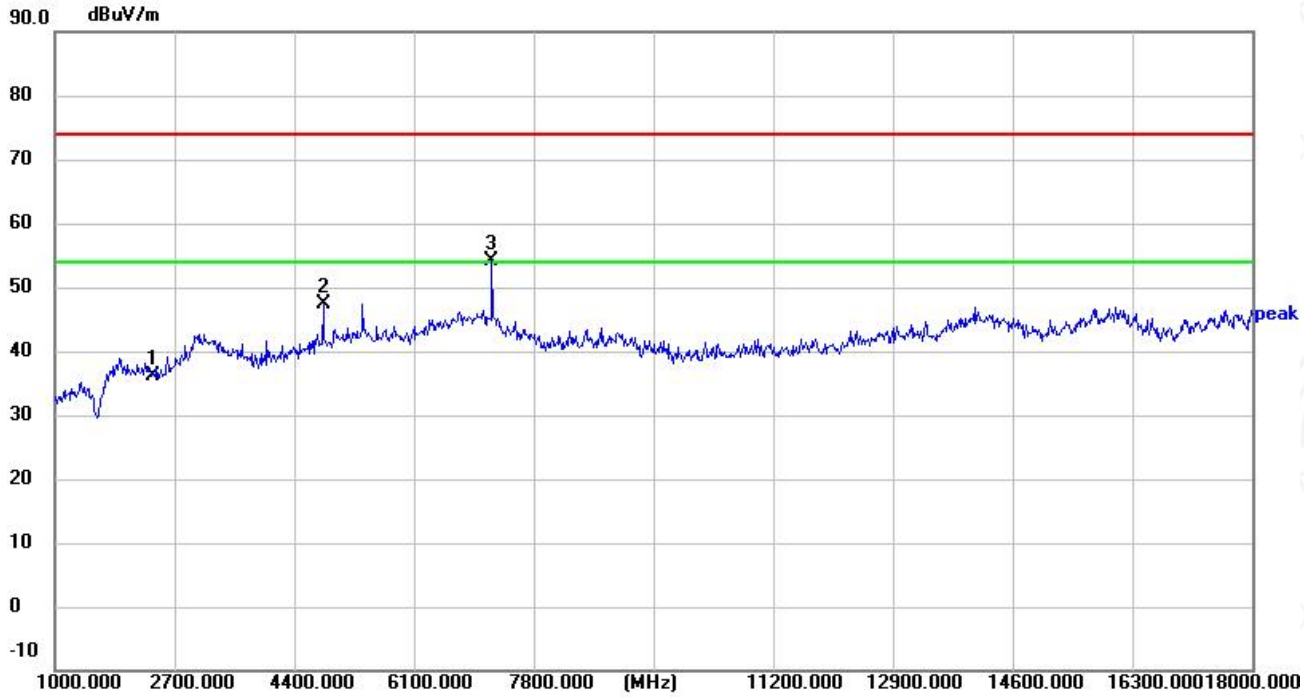
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2480.000	47.49	-8.69	38.80	74.00	-35.20	peak	150	0	P	
2	4960.000	46.43	-2.83	43.60	74.00	-30.40	peak	150	0	P	
3 *	7440.000	42.83	0.78	43.61	74.00	-30.39	peak	150	0	P	

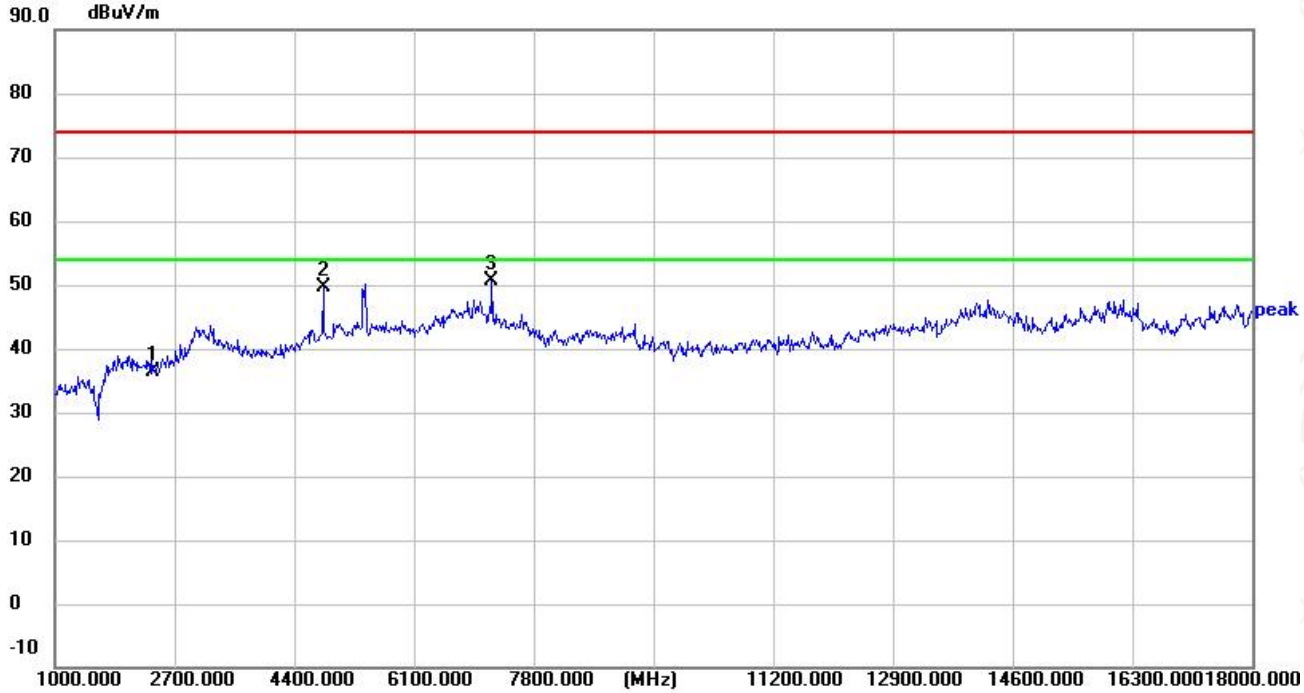
Right

Test Channel	Low	Polarity:	Horizontal



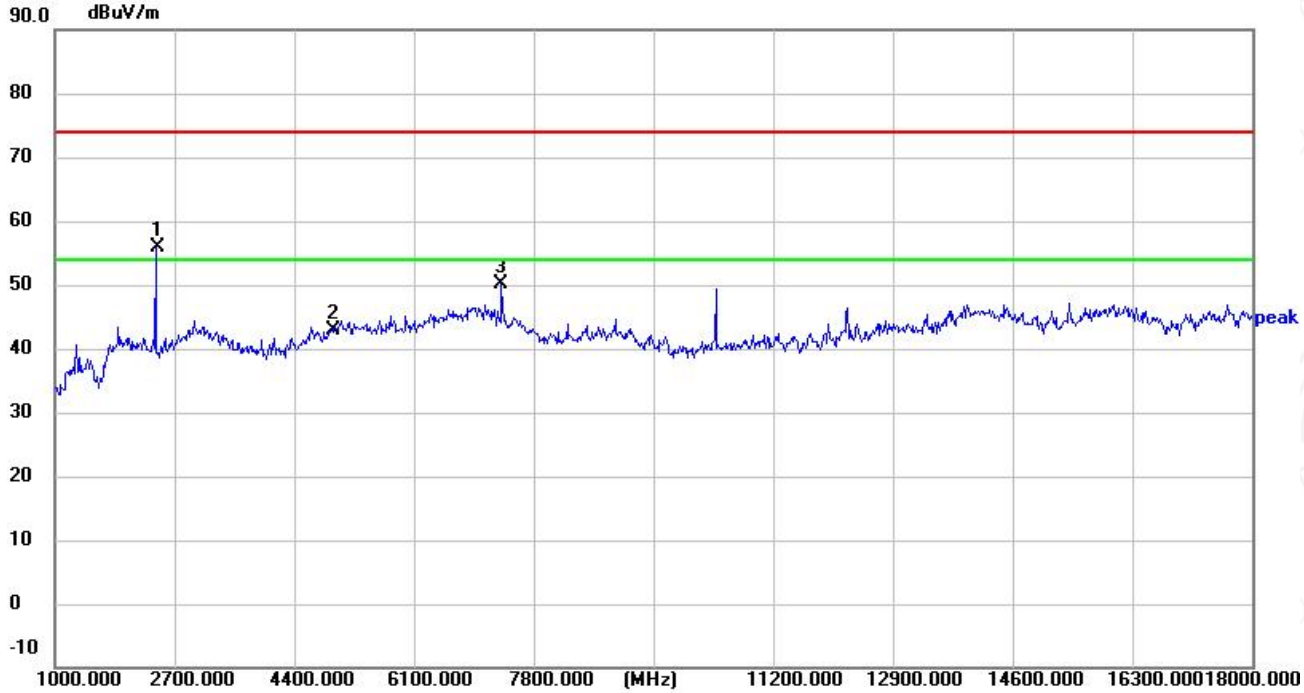
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2402.000	44.83	-8.70	36.13	74.00	-37.87	peak	150	360	P	
2	4808.000	51.20	-3.73	47.47	74.00	-26.53	peak	150	360	P	
3 *	7205.000	52.59	1.61	54.20	74.00	-19.80	peak	150	360	P	

Test Channel	Low	Polarity:	Vertical



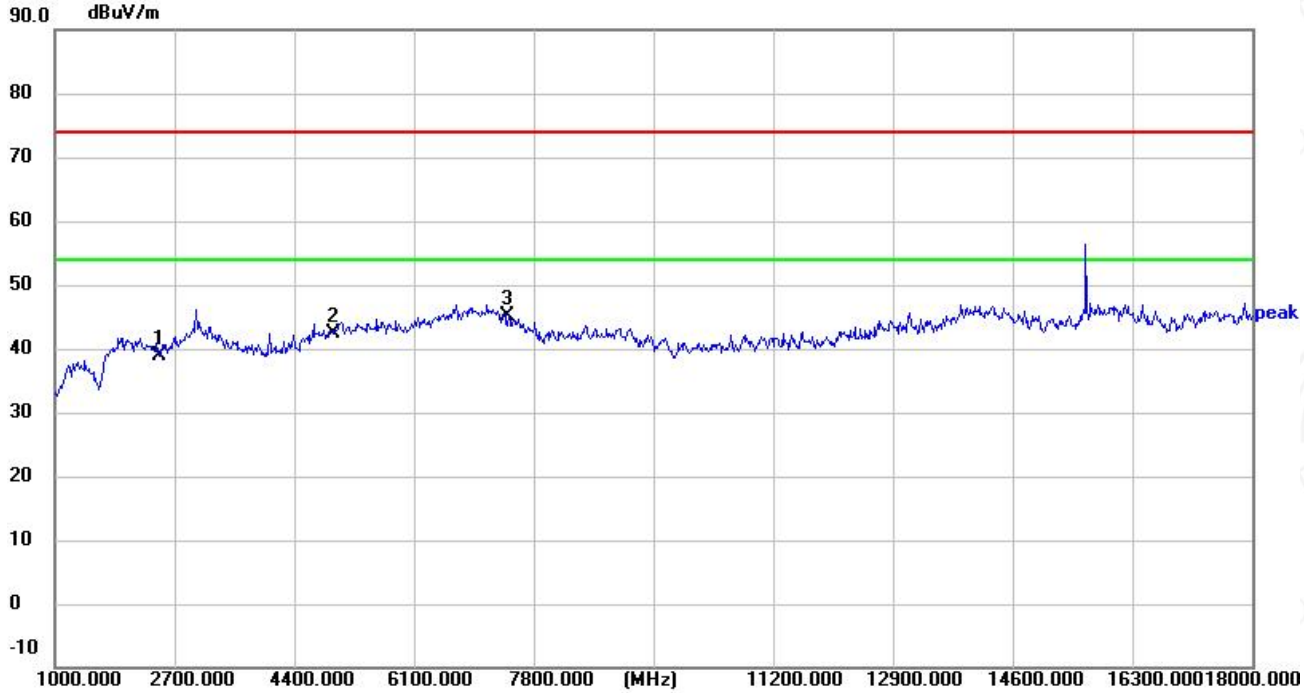
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2402.000	45.20	-8.70	36.50	74.00	-37.50	peak	150	360	P	
2	4808.000	53.36	-3.73	49.63	74.00	-24.37	peak	150	360	P	
3 *	7205.000	48.94	1.61	50.55	74.00	-23.45	peak	150	360	P	

Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2472.000	64.58	-8.69	55.89	74.00	-18.11	peak	150	360	P	
2	4960.000	45.65	-2.83	42.82	74.00	-31.18	peak	150	360	P	
3	7341.000	48.94	1.12	50.06	74.00	-23.94	peak	150	360	P	

Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2480.000	47.68	-8.69	38.99	74.00	-35.01	peak	150	0	P	
2	4960.000	45.31	-2.83	42.48	74.00	-31.52	peak	150	0	P	
3 *	7440.000	44.32	0.78	45.10	74.00	-28.90	peak	150	0	P	

Note:1. Testing is carried out with frequency rang 1GHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

2. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

3. Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre_amplifier gain.

8 Test Setup Photo

Please refer to the Appendix Test Setup Photos

9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos

- End of the Report -