FCC RADIO TEST REPORT

Applicant	:	Golight Inc
Address	:	37146 Old Hwy 17 Culbertson, NE 69024 United States
Equipment	:	Searchlight
Model No.	:	30220
Trade Name	:	GOLIGHT
FCC ID	:	MMK30220

I HEREBY CERTIFY THAT :

The sample was received on Jun. 18, 2026 and the testing was completed on Jul. 02, 2026 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

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History of this test report

Report No.	Issued Date	Description
26060256-TRDFCC01	Jul. 06, 2026	Original

Report Type		Description
■	Original report	NA

1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024.

FCC Rules and Regulations Part 15 Subpart C §15.249

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	N/A
15.249(a)	. Radiated Spurious Emission	PASS
15.215	. 20dB Bandwidth Measurement	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Equipment	Searchlight
Model Name	30220
Operation Frequency Range	2.4GHz: 2400-2483.5MHz
Center Frequency Range	2.4GHz: 2405-2477MHz
Modulation Type	FSK
Data Rate	250kbps
Antenna Type	PCB Antenna
Antenna Gain	1.68dBi
Power Supply	2 x LR03(GD)/1.5V/AAA Battery

Note: For more details, please refer to the User's manual of the EUT.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)
***00**	**2405**
***01**	**2445**
***02**	**2477**

Note: Channels remarked * are selected to perform test.

2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10
b. The complete test system included support units and EUT for RF test.
c. An executive program, EUT was executed to transmit and receive data via Wireless is accessed through button operation.
d. The following test modes were performed for the test:

Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
Mode 1	FSK (250kbps)
caused “Test Mode 1 and CH00:2405” generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
Mode 1	FSK (250kbps)
caused “Test Mode 1” generated the worst case, they were reported as the final data.	

(For Above 1GHz)

Below test Channel generated the worst case, they were reported as the final data.

Modulation Type	Channel	Frequency (MHz)	Bandedge		1GHz~3GHz		3GHz~18GHz		18GHz~25GHz	
			Ver PK/AV	Hor PK/AV	Ver PK/AV	Hor PK/AV	Ver PK/AV	Hor PK/AV	Ver PK/AV	Hor PK/AV
FSK (250kbps)	00	2405	V	V	V	V	V	V		
	01	2445	V	V	V	V	V	V		
	02	2477	V	V	V	V	V	V	V	V

2.4 Description of Test System

Radiated Emissions					
Equipment	**Brand**	**Model**	**Serial No**	**Length/Type**	**Power cord/Length/Type**
N/A	N/A	N/A	N/A	N/A	N/A
AC Power Line Conducted Emission					
Equipment	**Brand**	**Model**	**Serial No**	**Length/Type**	**Power cord/Length/Type**
N/A	N/A	N/A	N/A	N/A	N/A

2.5 General Information of Test

Organization	Cerpass Technology Corp.	
☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881	
	FCC	TW1439, TW1079
	ISED Company Number	4934E
	ISED CAB identifier	TW1439
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 25,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
Radiated Emissions	3M03-NK	2026/07/02	24.8℃ / 49%	Leon Huang

2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Item	Uncertainty
Radiated Spurious Emission(9kHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~25GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.5%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time	±3.5%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%

3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
Bilog Antenna	Sunol	JB1	A020514-1	2025/09/08	2026/09/07
Active Loop Antenna	Schwarzbeck	FMZB 1513	00414	2026/02/04	2027/02/03
Horn Antenna	EMCO	3116	31974	2025/10/07	2026/10/06
Horn Antenna	EMCO	3115	00031589	2026/03/11	2027/03/10
Spectrum Analyzer 44GHz	ROHDE & SCHWARZ	FSV3044	101744	2026/04/01	2027/03/31
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2025/07/10	2026/07/09
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2026/04/01	2027/03/30
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SEE	981070	2026/04/02	2027/04/01
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	060611	2026/03/17	2027/03/16
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2026/07/01	2027/06/30
Cable-0.5m(1G-18G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2026/03/09	2027/03/08
Cable-3m(1G-18G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2026/03/09	2027/03/08
Cable-3m(10M-40G)	HUBER SUHNER	SF102	804619/2	2025/10/13	2026/10/12
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2025/10/13	2026/10/12
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2026/03/09	2027/03/08
Cable-4m(30M-1G)	HUBER SUHNER	RG-214	02953M	2025/07/11	2026/07/10
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	05094M	2025/07/11	2026/07/10
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00402M	2025/07/11	2026/07/10
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WR377WC2B1	2025/10/15	2026/10/14
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR377WC2B2	2025/10/15	2026/10/14

4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

4.2 Antenna Construction and Directional Gain

Antenna Type	PCB Antenna
Antenna Gain	1.68dBi

5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

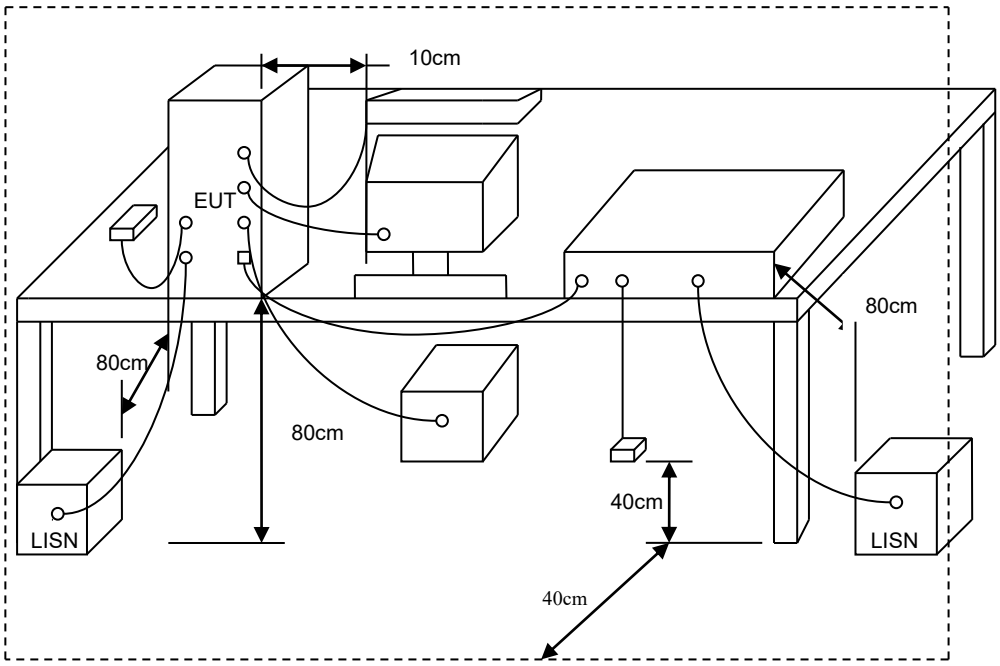
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.3 Typical Test Setup



5.4 Test Result and Data

Not Applicable.

6. Test of Spurious Emission (Radiated)

6.1 Test Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	Measurement Distance (meters)
902-928 MHz	50	500	3
2400-2483.5 MHz	50	500	3
5725-5875 MHz	50	500	3
24.0-24.25 GHz	250	2500	3

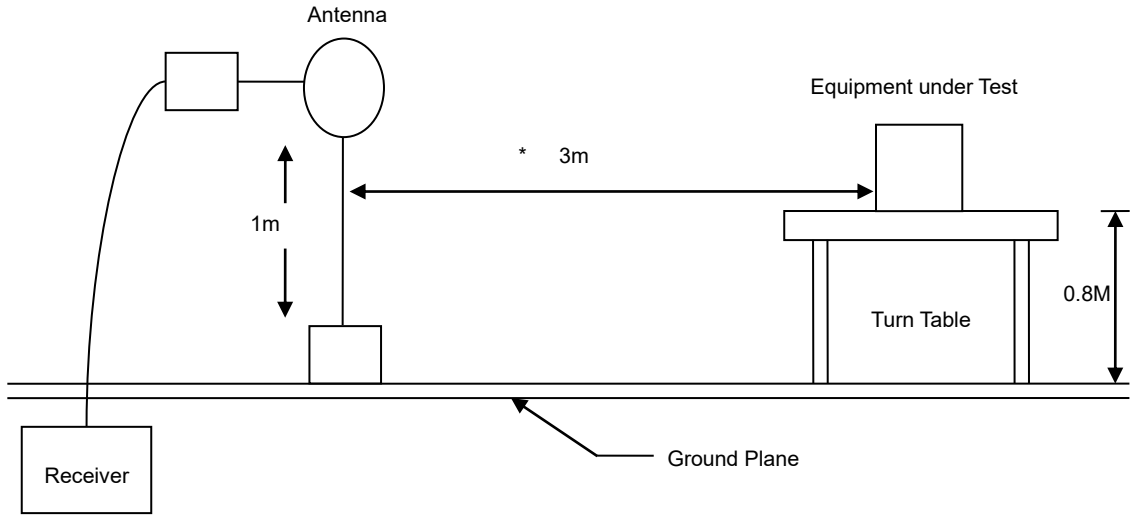
6.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
i. “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

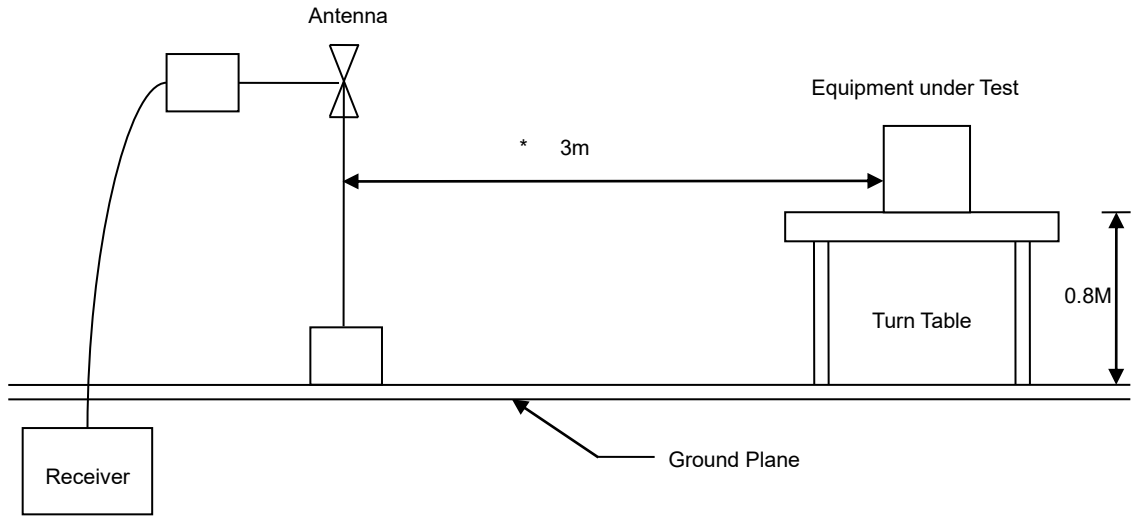
Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(X-AXIS is the worst.)

6.3 Typical Test Setup

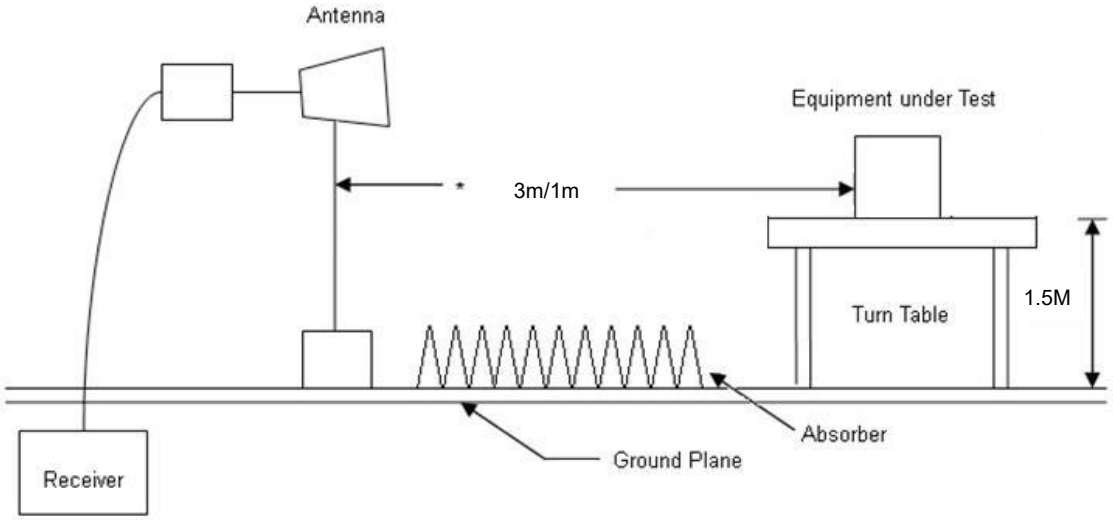
Below 30MHz test setup



30MHz- 1GHz Test Setup

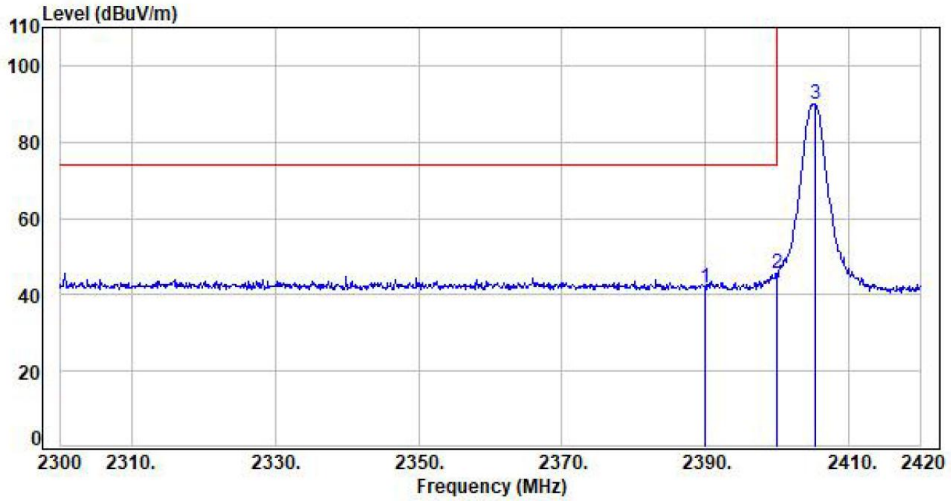


Above 1GHz Test Setup



6.4 Test Result and Data (Fundamental Emission)

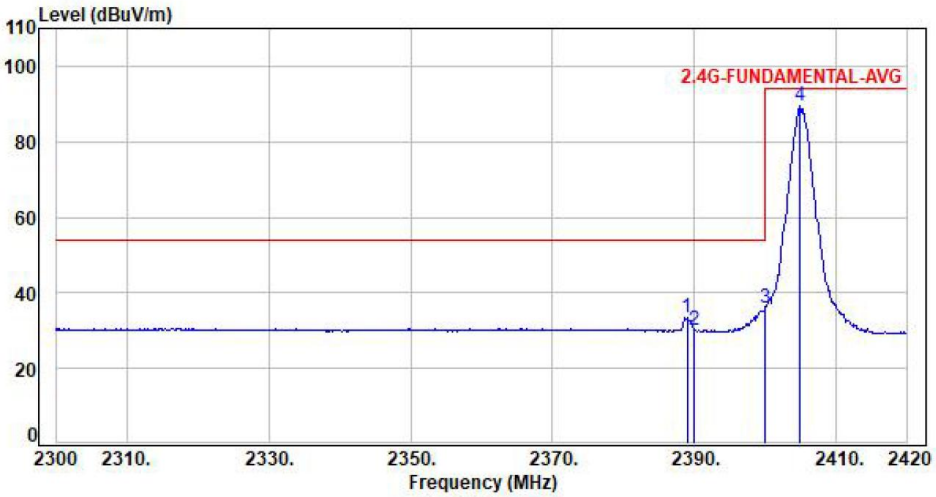
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	46.07	41.87	74.00	-32.13	Peak	100	136	P
2	2400.00	-4.28	49.82	45.54	74.00	-28.46	Peak	100	182	P
3	2405.24	-4.22	94.11	89.89	114.00	-24.11	Peak	100	211	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

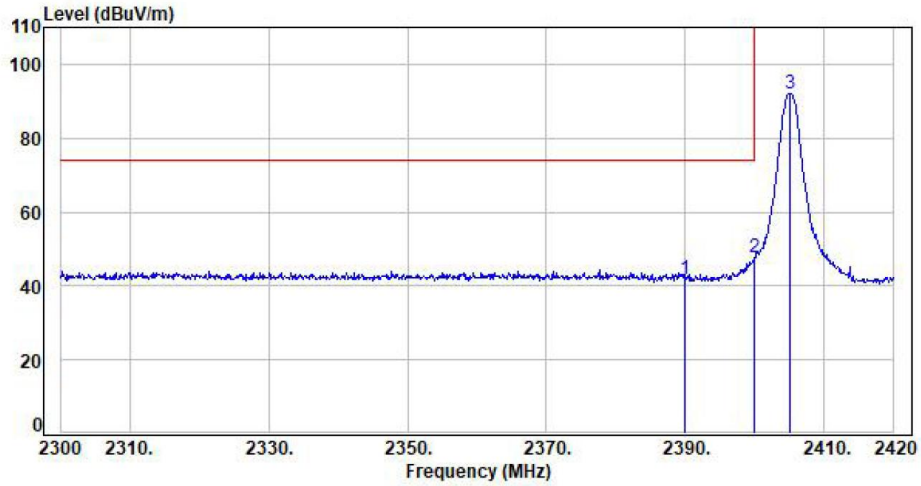
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2388.92	-4.20	37.85	33.65	54.00	-20.35	Average	100	281	P
2	2390.00	-4.20	34.33	30.13	54.00	-23.87	Average	100	202	P
3	2400.00	-4.28	40.07	35.79	54.00	-18.21	Average	100	228	P
4	2404.88	-4.23	93.59	89.36	94.00	-4.64	Average	100	74	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

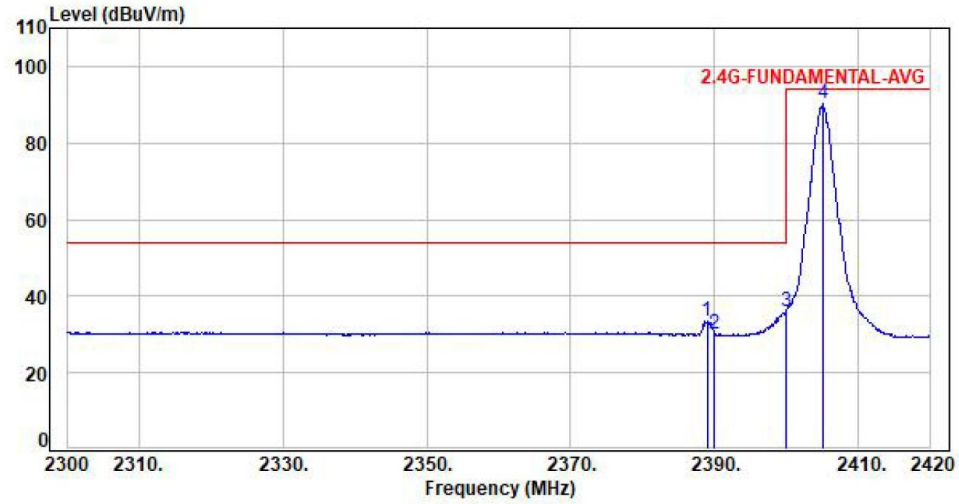
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	46.09	41.89	74.00	-32.11	Peak	100	333	P
2	2400.00	-4.28	52.03	47.75	74.00	-26.25	Peak	100	142	P
3	2405.12	-4.22	96.40	92.18	114.00	-21.82	Peak	100	147	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

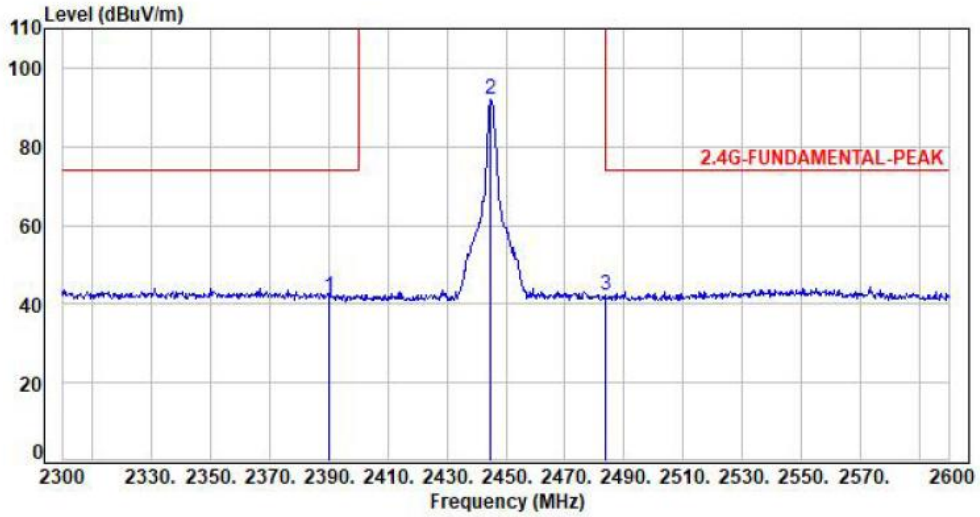
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2388.92	-4.20	37.69	33.49	54.00	-20.51	Average	100	308	P
2	2390.00	-4.20	34.25	30.05	54.00	-23.95	Average	100	102	P
3	2399.96	-4.28	40.41	36.13	54.00	-17.87	Average	100	75	P
4	2405.00	-4.22	94.43	90.21	94.00	-3.79	Average	100	314	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

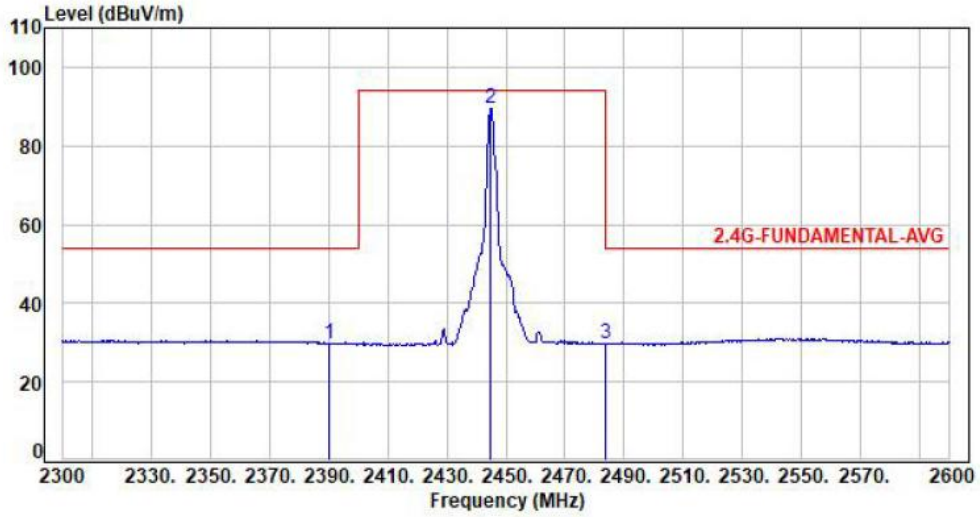
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	46.06	41.86	74.00	-32.14	Peak	100	34	P
2	2444.90	-4.08	95.91	91.83	114.00	-22.17	Peak	100	233	P
3	2483.60	-3.88	46.32	42.44	74.00	-31.56	Peak	100	189	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

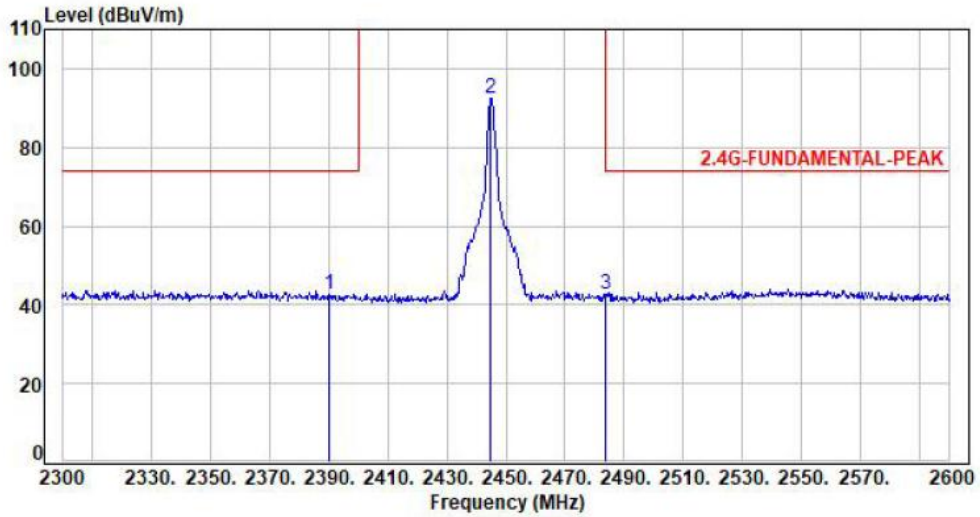
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	34.06	29.86	54.00	-24.14	Average	100	314	P
2	2444.90	-4.08	93.78	89.70	94.00	-4.30	Average	100	77	P
3	2483.60	-3.88	33.69	29.81	54.00	-24.19	Average	100	152	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

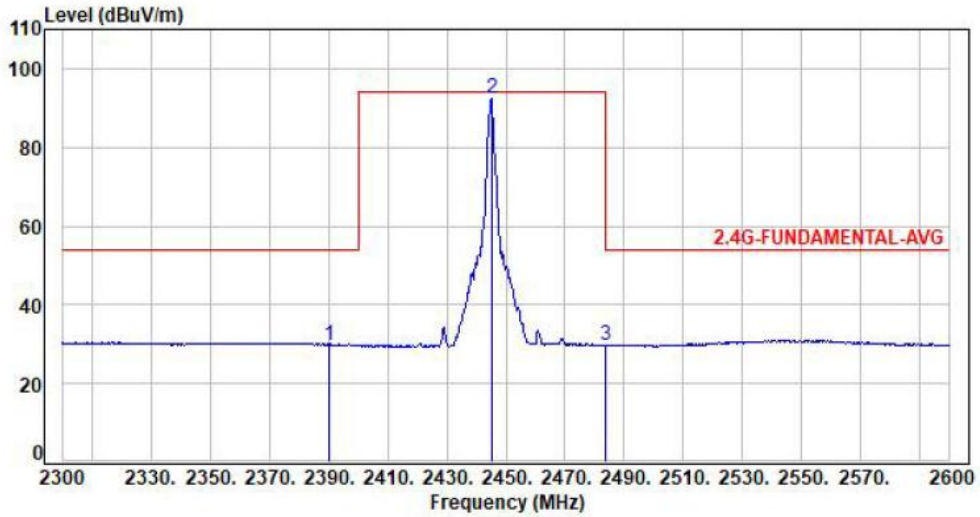
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	46.95	42.75	74.00	-31.25	Peak	100	330	P
2	2444.90	-4.08	96.45	92.37	114.00	-21.63	Peak	100	82	P
3	2483.60	-3.88	46.62	42.74	74.00	-31.26	Peak	100	241	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

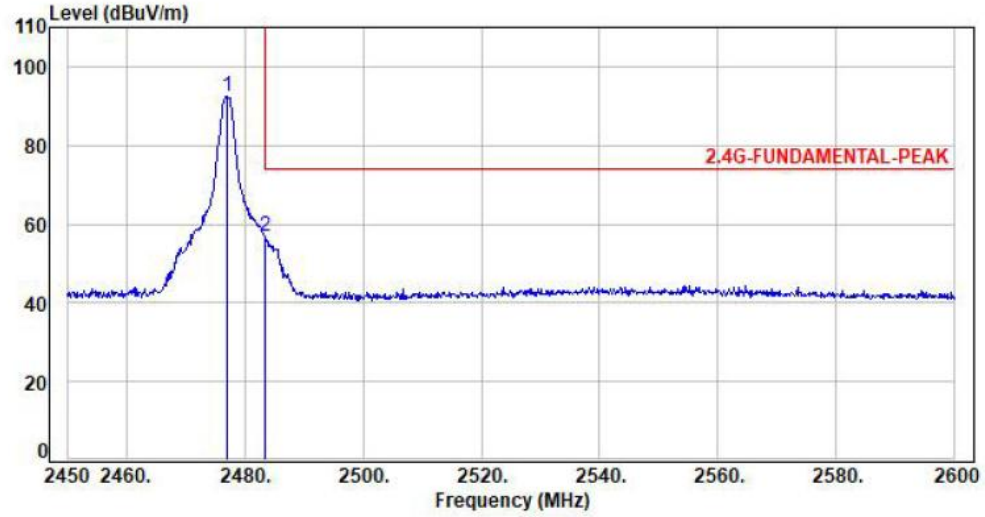
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.20	34.08	29.88	54.00	-24.12	Average	100	347	P
2	2445.20	-4.08	96.33	92.25	94.00	-1.75	Average	100	191	P
3	2483.60	-3.88	33.56	29.68	54.00	-24.32	Average	100	42	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

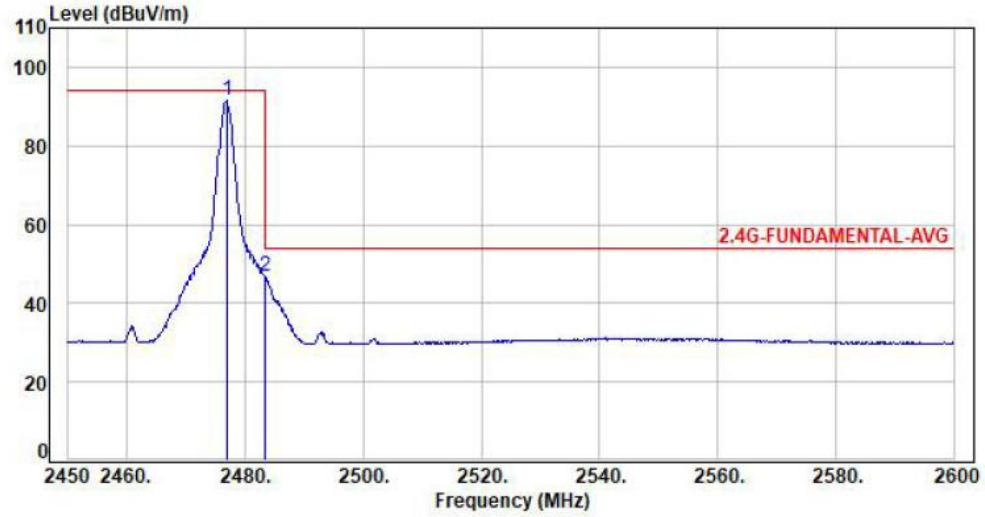
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2477.00	-3.86	96.16	92.30	114.00	-21.70	Peak	100	89	P
2	2483.50	-3.88	60.77	56.89	74.00	-17.11	Peak	100	162	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

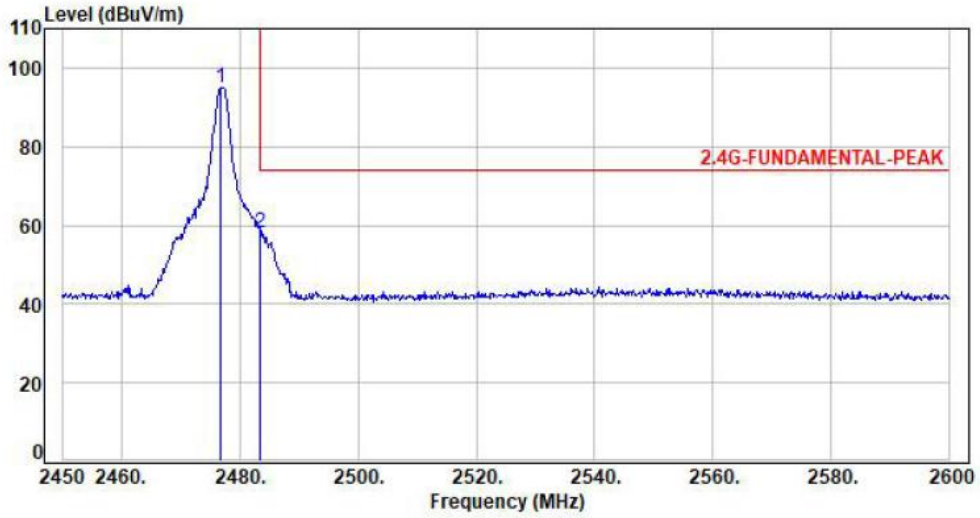
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2477.15	-3.86	95.26	91.40	94.00	-2.60	Average	100	278	P
2	2483.50	-3.88	50.72	46.84	54.00	-7.16	Average	100	123	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

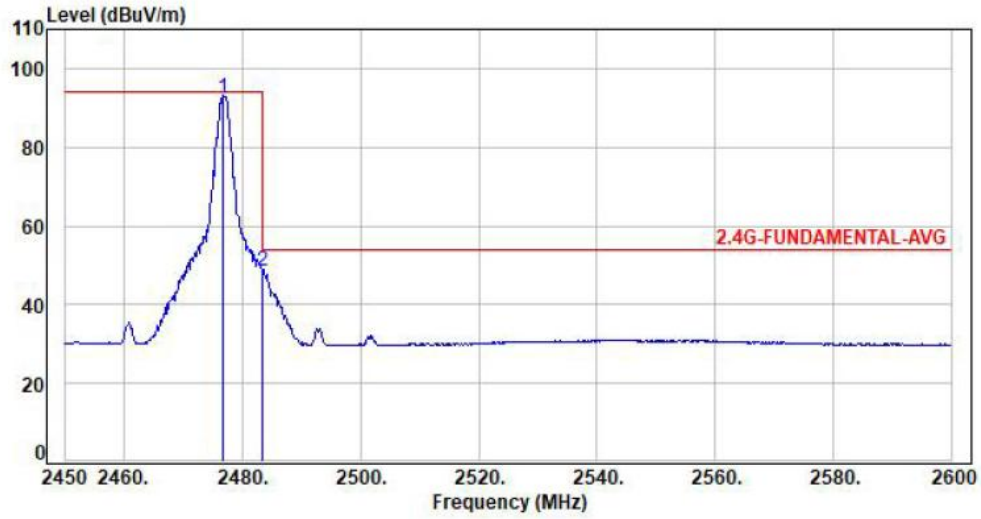
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2476.85	-3.86	98.96	95.10	114.00	-18.90	Peak	100	352	P
2	2483.50	-3.88	61.93	58.05	74.00	-15.95	Peak	100	59	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2476.85	-3.86	96.36	92.50	94.00	-1.50	Average	100	61	P
2	2483.50	-3.88	52.20	48.32	54.00	-5.68	Average	100	317	P

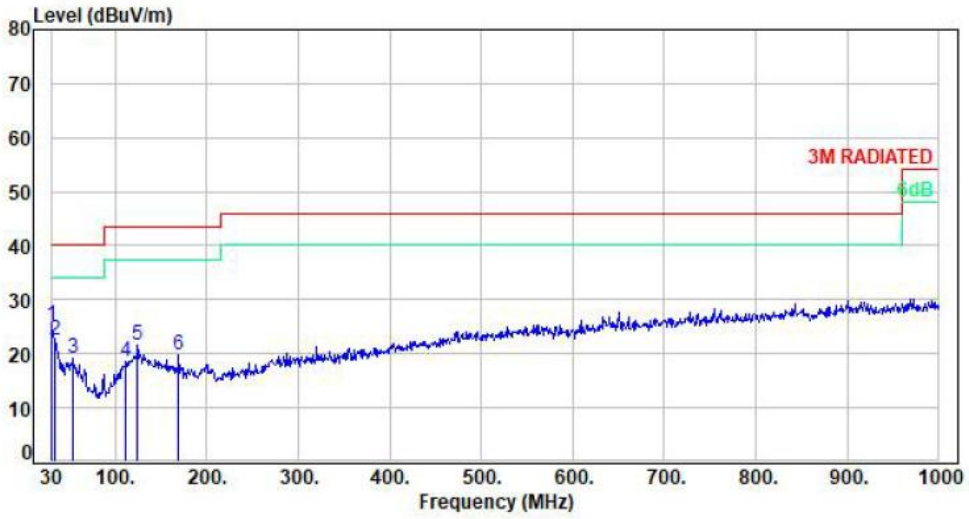
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.5 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.6 Test Result and Data (30MHz ~ 1GHz)

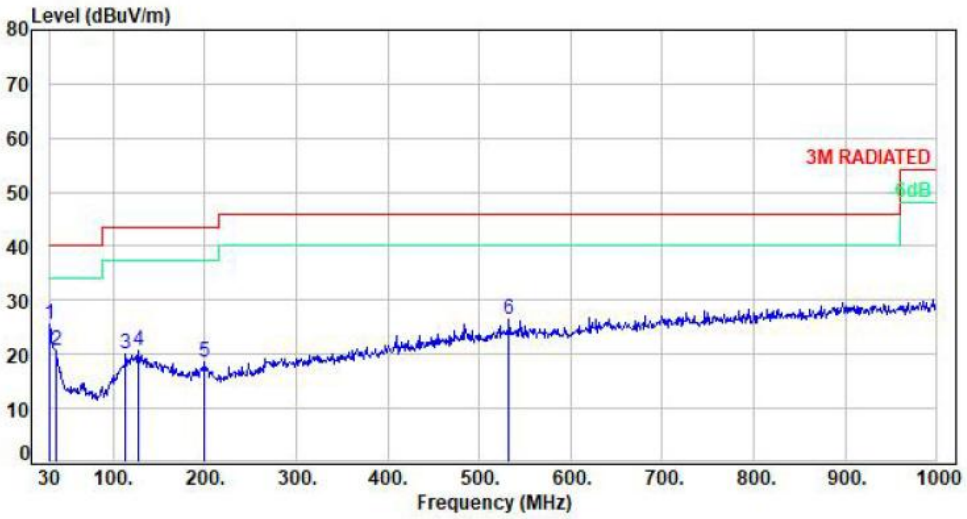
Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-2.95	28.26	25.31	40.00	-14.69	Peak	100	154	P
2	34.85	-6.27	28.79	22.52	40.00	-17.48	Peak	100	60	P
3	54.25	-16.08	35.16	19.08	40.00	-20.92	Peak	100	205	P
4	111.48	-9.43	28.05	18.62	43.50	-24.88	Peak	200	304	P
5	124.09	-8.37	29.92	21.55	43.50	-21.95	Peak	100	173	P
6	169.68	-10.42	30.21	19.79	43.50	-23.71	Peak	100	287	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1		:	

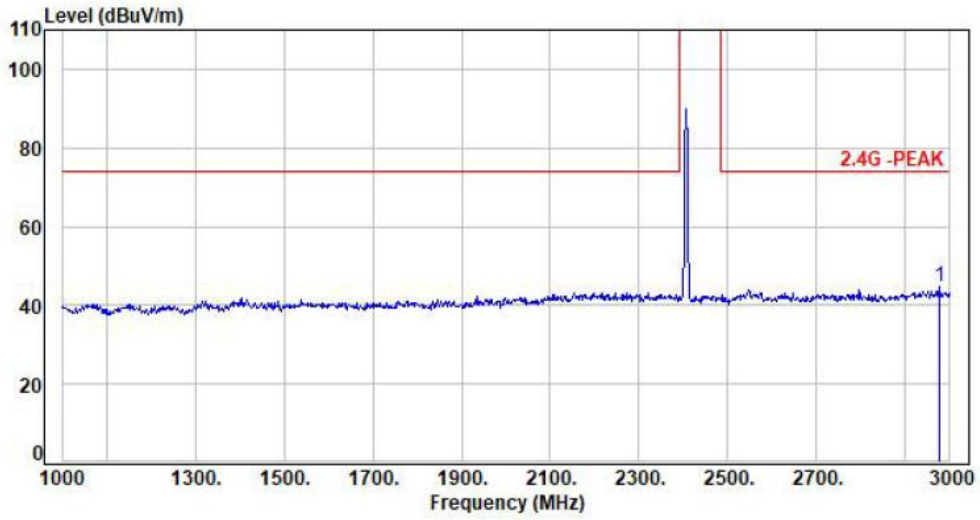


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-2.95	28.41	25.46	40.00	-14.54	Peak	100	19	P
2	36.79	-7.85	28.65	20.80	40.00	-19.20	Peak	200	45	P
3	113.42	-9.03	29.06	20.03	43.50	-23.47	Peak	200	105	P
4	127.00	-8.17	28.70	20.53	43.50	-22.97	Peak	200	105	P
5	198.78	-9.05	27.49	18.44	43.50	-25.06	Peak	100	238	P
6	532.46	-2.97	29.34	26.37	46.00	-19.63	Peak	200	110	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.7 Test Result and Data (1GHz ~ 3GHz)

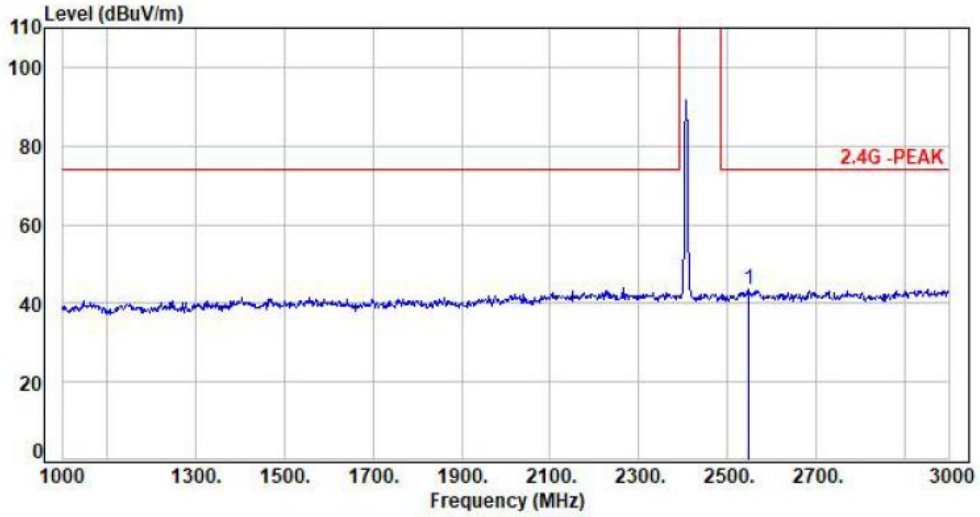
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2978.00	-1.92	46.57	44.65	74.00	-29.35	Peak	100	1	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

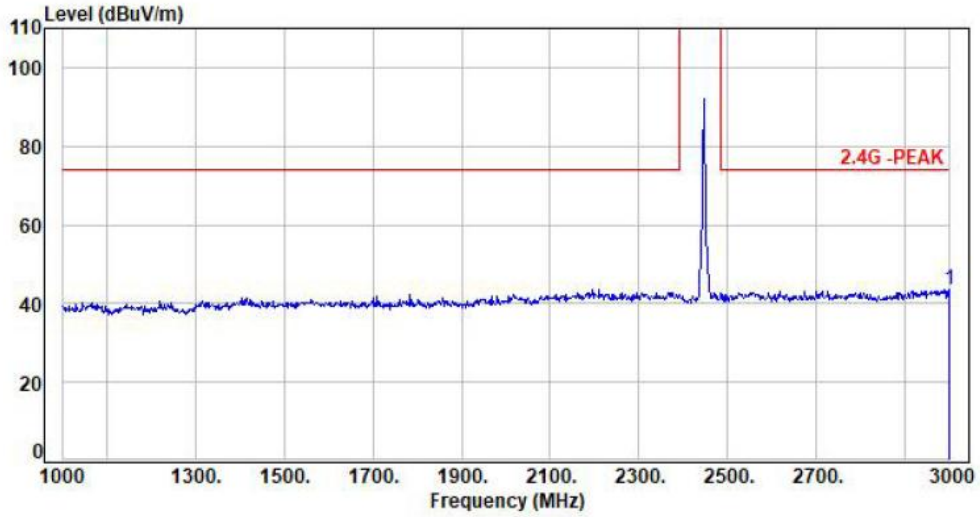
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2548.00	-3.71	47.08	43.37	74.00	-30.63	Peak	100	274	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

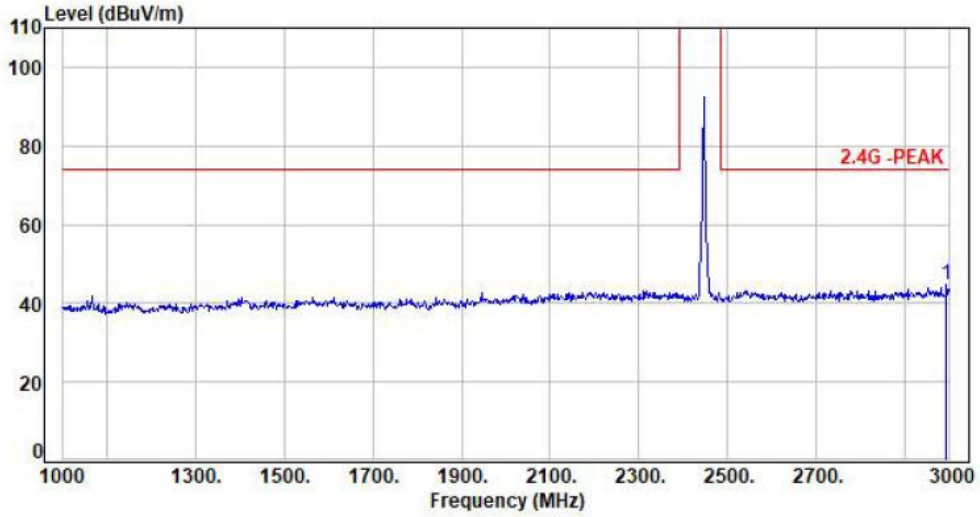
Power :	AC120V / 60Hz	Pol/Phase :	VERTICAL
Test Mode :	Mode 1, CH01	:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2998.00	-1.87	45.29	43.42	74.00	-30.58	Peak	100	354	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

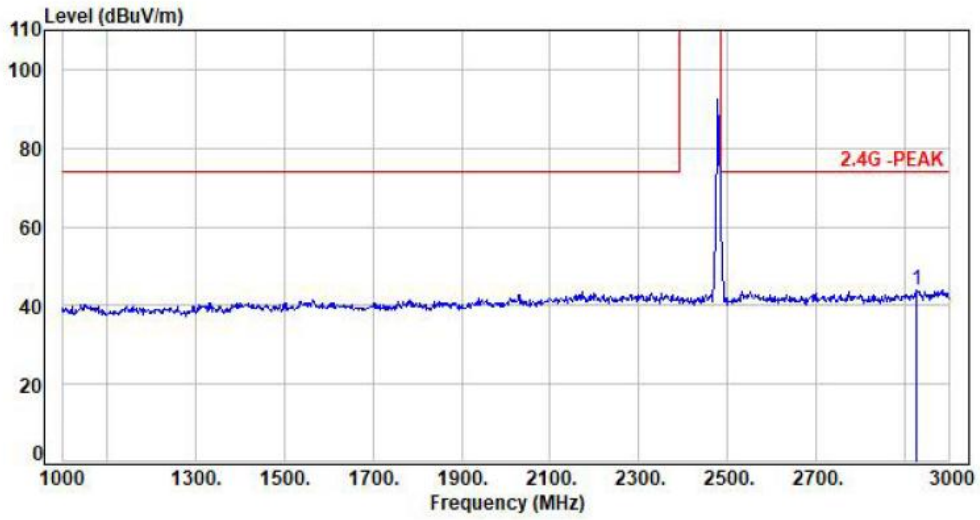
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2992.00	-1.88	46.53	44.65	74.00	-29.35	Peak	100	224	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

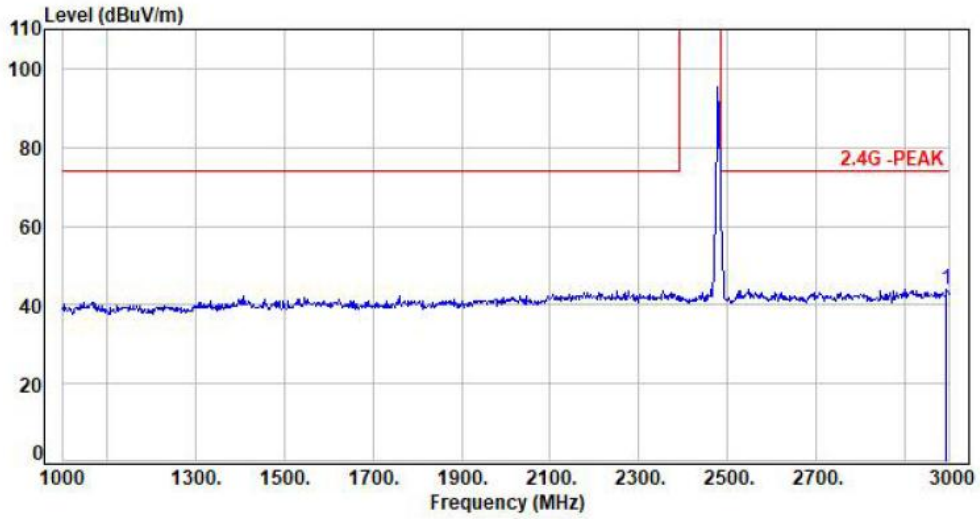
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2924.00	-2.30	46.21	43.91	74.00	-30.09	Peak	100	258	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02		:	

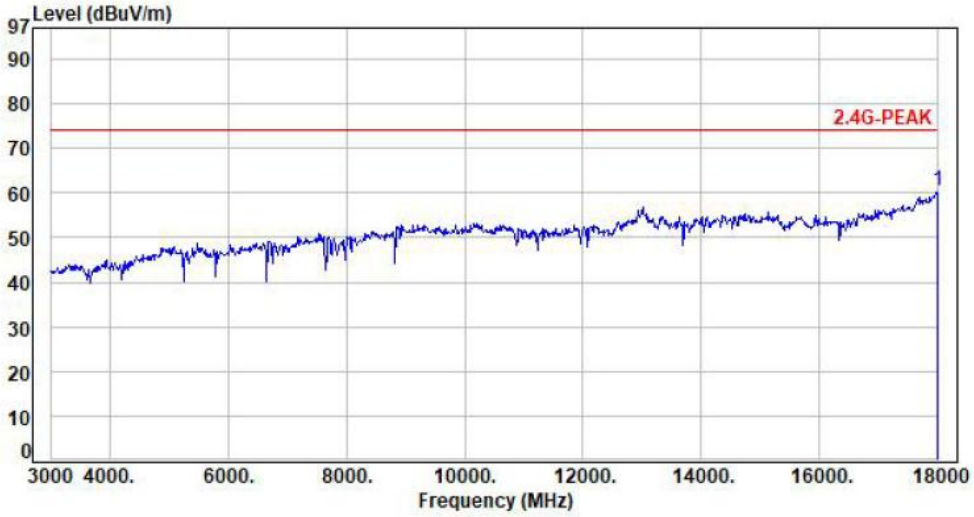


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2992.00	-1.88	45.81	43.93	74.00	-30.07	Peak	100	8	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.8 Test Result and Data (3GHz ~ 18GHz)

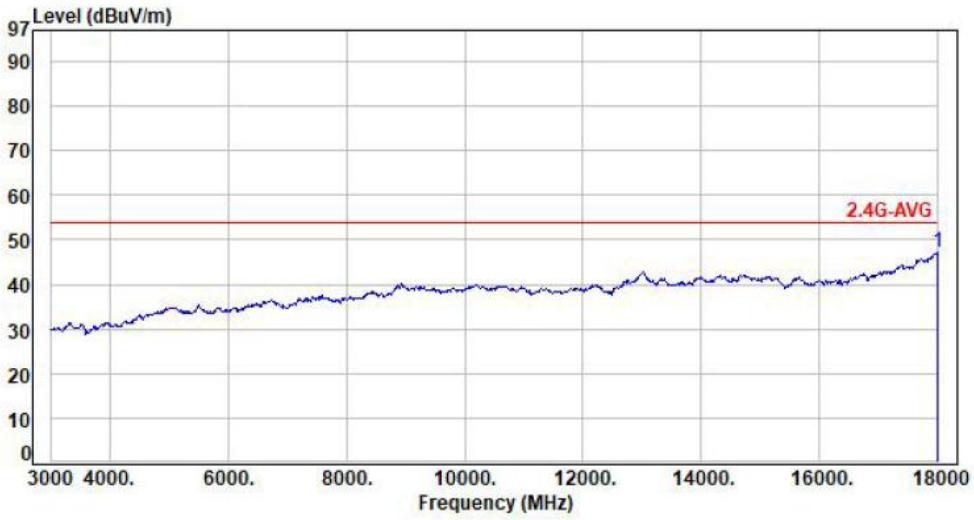
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	14.83	45.72	60.55	74.00	-13.45	Peak	100	129	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

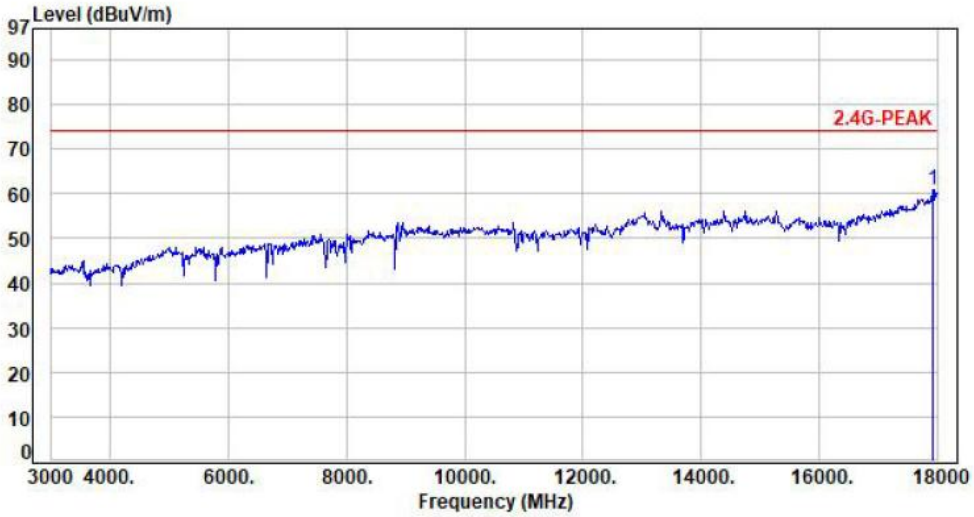
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	14.83	32.54	47.37	54.00	-6.63	Average	100	264	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

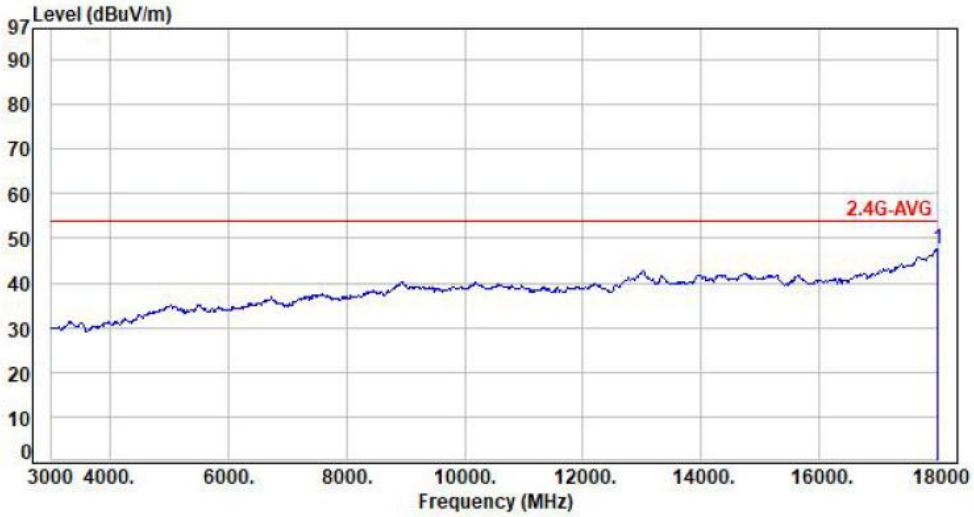
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17910.00	14.62	46.19	60.81	74.00	-13.19	Peak	100	278	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

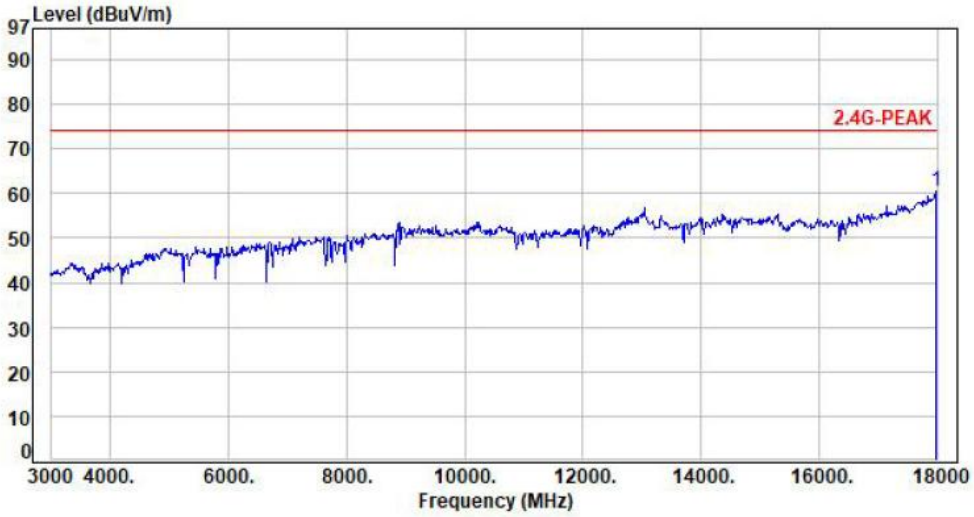
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	14.83	32.90	47.73	54.00	-6.27	Average	100	2	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

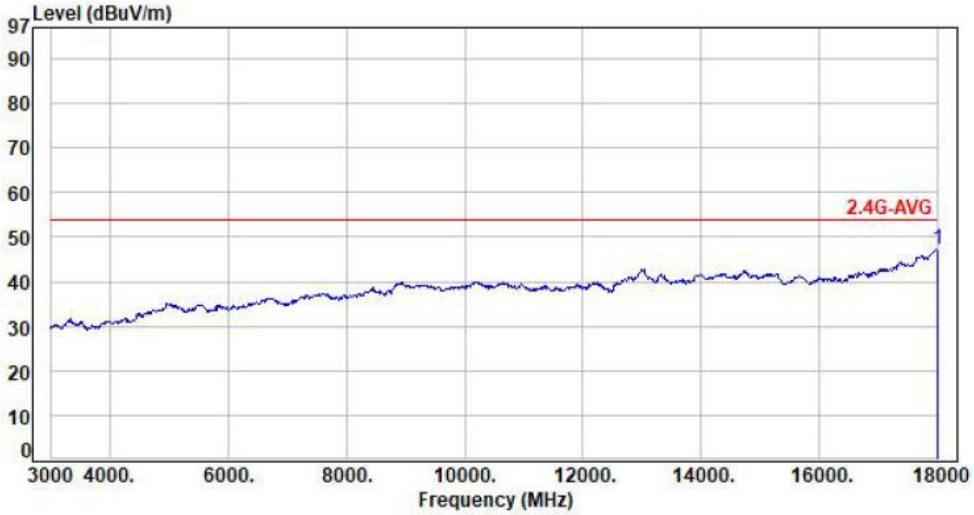
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17970.00	14.80	45.53	60.33	74.00	-13.67	Peak	100	68	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

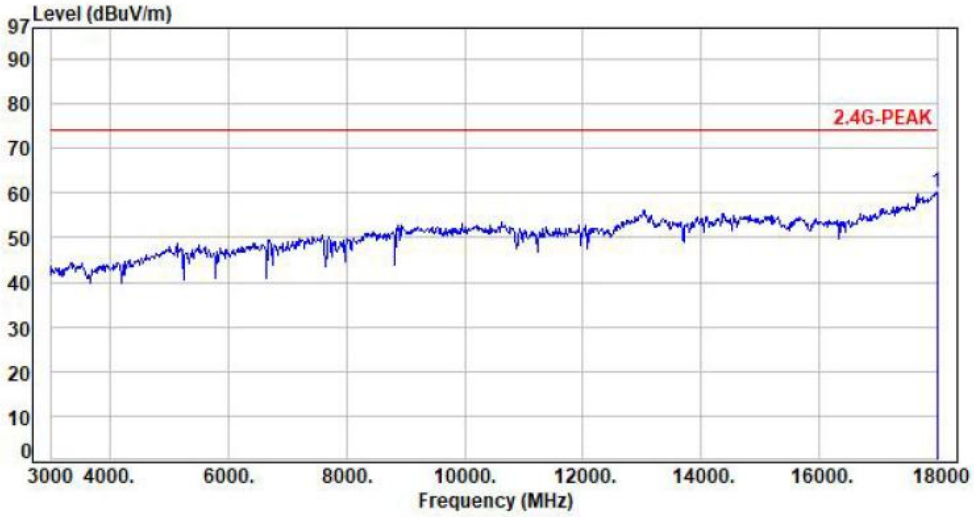
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17988.00	14.83	32.44	47.27	54.00	-6.73	Average	100	31	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

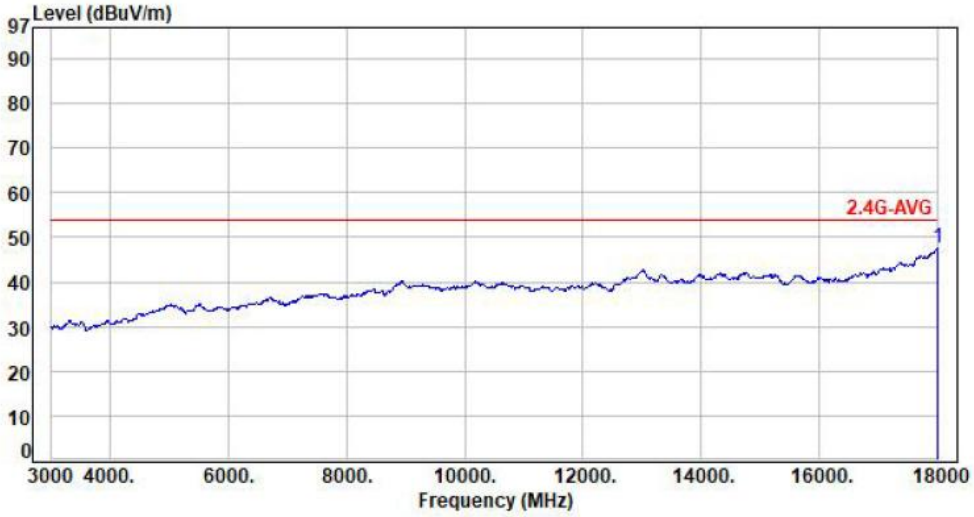
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17981.00	14.82	45.29	60.11	74.00	-13.89	Peak	100	240	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

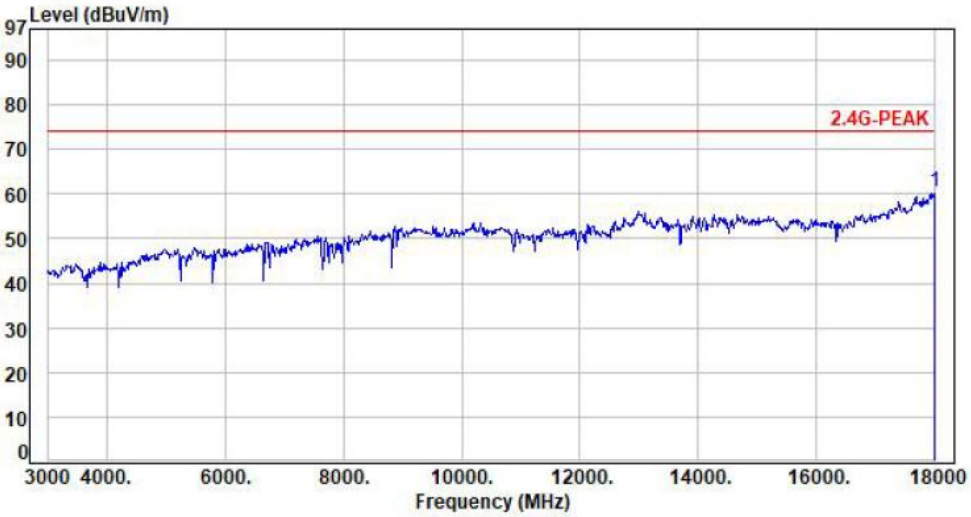
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	14.83	32.70	47.53	54.00	-6.47	Average	100	141	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

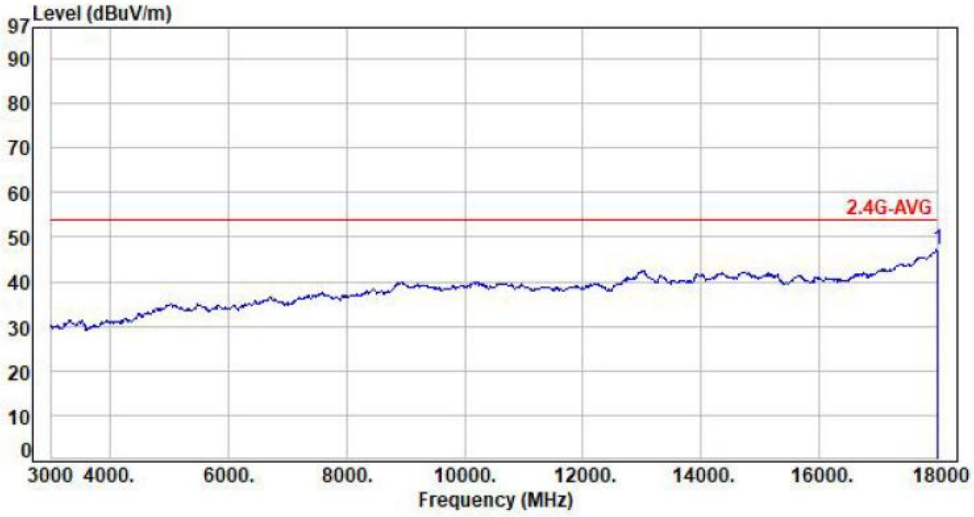
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17999.00	14.85	45.71	60.56	74.00	-13.44	Peak	100	57	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

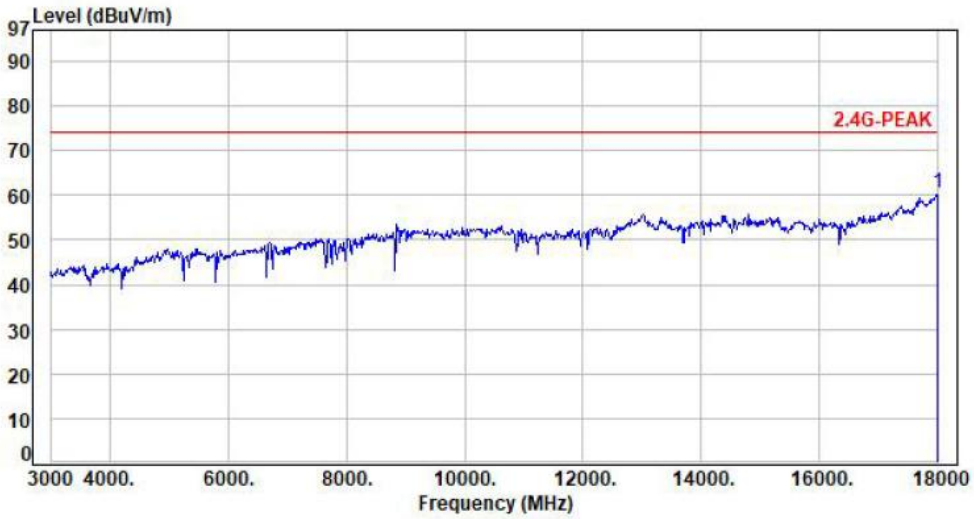
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02	Detector	:	Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	14.83	32.46	47.29	54.00	-6.71	Average	100	314	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

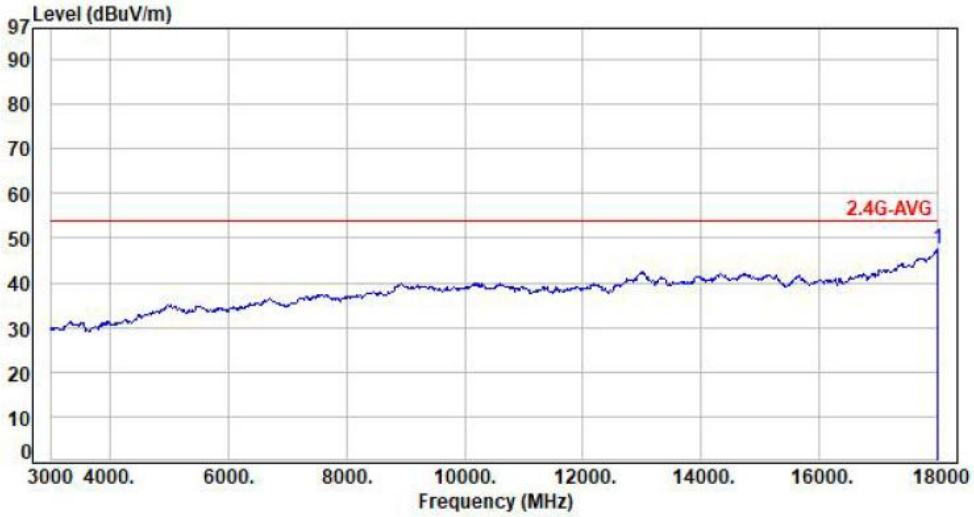
Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02	Detector	:	Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17999.00	14.85	45.81	60.66	74.00	-13.34	Peak	100	103	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02	Detector	:	Average

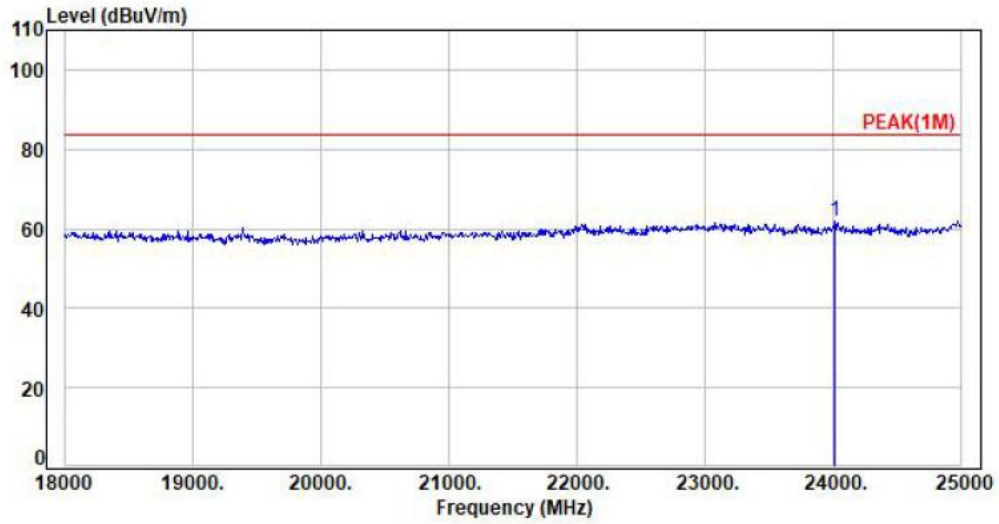


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17982.00	14.82	32.65	47.47	54.00	-6.53	Average	100	4	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.9 Test Result and Data (18GHz ~ 25GHz)

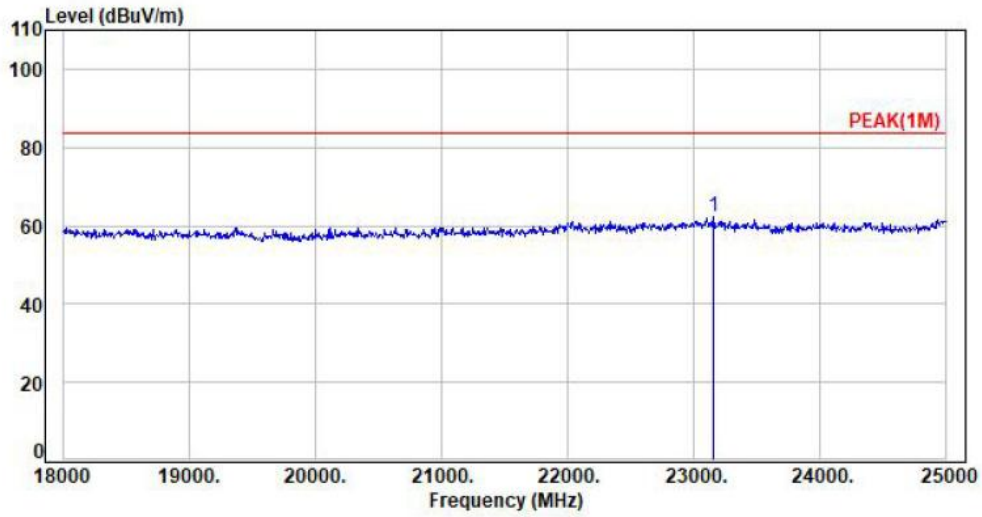
Power	:	AC120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH02			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	24013.00	9.94	52.05	61.99	83.54	-21.55	Peak	100	173	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	:	AC120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	23152.00	9.74	52.60	62.34	83.54	-21.20	Peak	100	204	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.10 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

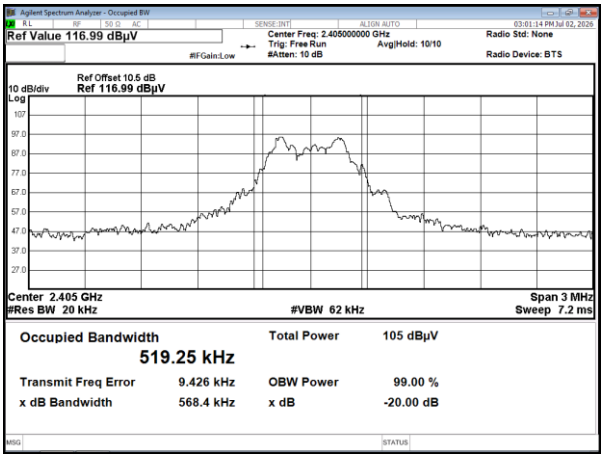
MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

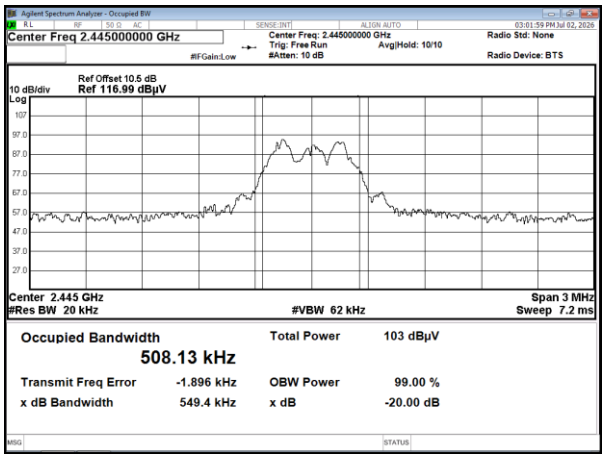
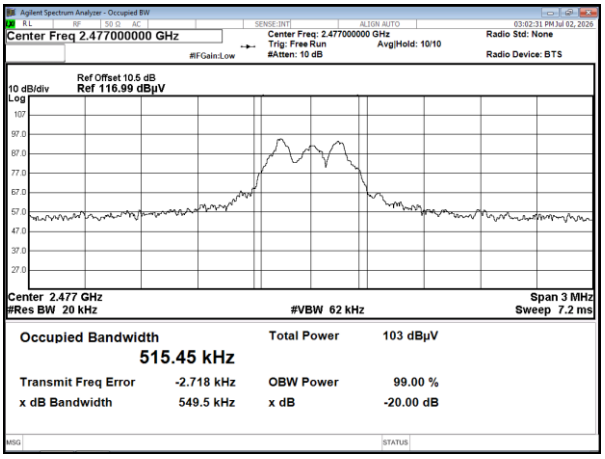
6.11 20dB Bandwidth Measurement Data

Frequency (MHz)	20dB Bandwidth (MHz)
2405.00	0.57
2445.00	0.55
2477.00	0.55

20dB Bandwidth
2405 MHz
CH00



2445 MHz
CH01



2477 MHz
CH02