FCC RADIO TEST REPORT

Applicant	:	Allied Telesis K.K.
Address	:	2nd. TOC Bldg. 721-11 Nishi-Gotanda, Shinagawa-ku, Tokyo Japan, 141-0031
Equipment	:	802.11ac wave2 2x2 2.4G/5G/ wireless AP
Model No.	:	AT-TQ1402, AT-TQm1402
Trade Name	:	Allied Telesis
FCC ID	:	RSL-TQ1402

I HEREBY CERTIFY THAT :

The sample was received on Dec. 12, 2018 and the testing was carried out on Jan. 29, 2019 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

Tested by:

Spree Yei / Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

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History of this test report

Report No.	Issue Date	Description
TEFI1804234	Feb. 12, 2019	Original

1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

KDB558074

KDB662911

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. AC Power Line Conducted Emission	Pass
15.209 15.205	. Radiated Spurious Emission	Pass
15.247(d)	. Conducted Spurious Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak and Average Output Power	Pass
15.247(e)	. Power Spectral Density	Pass
2.1091	. Radio Frequency Exposure	Pass

This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report.

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Equipment	802.11ac wave2 2x2 2.4G/5G/ wireless AP
Model No.	AT-TQ1402, AT-TQm1402
Brand Name	Allied Telesis
Product Description	Please refer to User's Manual.
Connecting I/O Port(s)	Please refer to User's Manual.
AC Adapter	Adapter Brand: APD Model No.: WA-24Q12R I/P: AC 100-240V~, 50-60Hz, 0.7A Max. O/P: DC 12V, 2.0A
PoE	48V/0.4A
Memo	A1
Frequency Range	802.11b/g/n/ac: 2400-2483.5MHz 802.11a/n/ac: 5150MHz-5250MHz, 5725MHz-5850MHz
Modulation Type	DSSS, OFDM
Data Rate	2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	2.4GHz: PIFA Antenna / 5GHz: Dipole Antenna
Antenna Gain	2400-2483.5MHz: ANT A: 1.9dBi, ANT B: 1.8dBi 5150-5250MHz: ANT A: 3.7dBi, ANT B: 2.9dBi 5725-5850MHz: ANT A: 3.7dBi, ANT B: 3.7dBi

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
***01**	**2412**	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	***11**	**2462**
***06**	**2437**	---	---

802.11n HT40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
***03**	**2422**	***09**	**2452**
04	2427	---	---
05	2432	---	---
***06**	**2437**	---	---

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 C63.4.
b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
c. An executive program, ”QRCT: Ver 3.0.219.0” was executed to transmit and receive data via WLAN.
d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps)
2	802.11g (6Mbps)
3	802.11n HT20 (6.5Mbps)
4	802.11n HT40 (13.5Mbps)
caused “Test Mode 2” generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), Power from Adapter
2	802.11g (6Mbps), Power from Adapter
3	802.11n HT20 (6.5Mbps), Power from Adapter
4	802.11n HT40 (13.5Mbps), Power from Adapter
5	802.11b (1Mbps), Power from PoE
6	802.11g (6Mbps), Power from PoE
7	802.11n HT20 (6.5Mbps), Power from PoE
8	802.11n HT40 (13.5Mbps), Power from PoE
caused “Test Mode 2 & 6” generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps)
2	802.11g (6Mbps)
3	802.11n HT20 (6.5Mbps)
4	802.11n HT40 (13.5Mbps)

Note: Non-Beamforming was used for the test result.

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Notebook	ASUS	P2430U	Power Cable, Unshielding, 1.8m

Use Cable:

Cable	Quantity	Description
Network	1	Unshielding, 1.2m

2.5 General Information of Test

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 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582	
	FCC	TW1079, TW1061, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4399, R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

2.6 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±5.007dB
Radiated Spurious Emission(30MHz~1GHz)	±5.157dB
Radiated Spurious Emission(1GHz~18GHz)	±6.383dB
Radiated Spurious Emission(18GHz~40GHz)	±6.648dB
Conducted Spurious Emission	±1.253dB
6dB Bandwidth	±6.89%
Power Spectral Density	±0.630dB
26 dB Occupied Bandwidth	±6.10%
Frequency Stability	±375KHz
Channel Frequencies Separation	±6.10%
20dB Bandwidth	±6.12%
Dwell Time	±1.34%
Peak Output Power(Conducted Power Meter)	±0.86dB
Temperature	±1.2℃
Humidity	±2.7%
Channel Move Time	±4.53%
Channel Closing Transmission Time	±6.61%
Threshold	±0.631dB
Non occupancy period	±1.17%

3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2018/09/17	2019/09/16
Active Loop Antenna	EMCO	6507	40855	2018/05/22	2019/05/21
Horn Antenna	EMCO	3115	31589	2018/04/02	2019/04/01
Horn Anrenna	EMCO	3116	31974	2018/09/07	2019/09/06
EMI Receiver	ROHDE & SCHWARZ	ESCI 3	101402	2018/02/23	2019/02/22
Spectrum Analyzer	ROHDE & SCHWARZ	FSP40	100047	2018/03/20	2019/03/19
Preamplifier	EM Electronics corp.	EM330	60660	2018/03/08	2019/03/07
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2018/09/18	2019/09/17
BLUETOOTH TESTER	ROHDE & SCHWARZ	CBT	101133	2018/04/02	2019/04/01
Cable-3in1-(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2018/04/20	2019/04/19
Cable-0.5m-(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2018/03/27	2019/03/26
Cable-1m-(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS300314	2018/03/27	2019/03/26
Cable-6m-(1G-40G)	Rapidtek	40GHZ 800CM	38MS-38MS800314	2018/03/27	2019/03/26
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
Spectrum Analyzer	ROHDE & SCHWARZ	VULB9168	275	2018/09/17	2019/09/16
BLUETOOTH TESTER	ROHDE & SCHWARZ	6507	40855	2018/05/22	2019/05/21
Attenuator	KEYSIGHT	3115	31589	2018/04/02	2019/04/01
TEMP & HUMI CHAMBER	T-MACHINE	3116	31974	2018/09/07	2019/09/06
Power Sensor	Anritsu	ESCI 3	101402	2018/02/23	2019/02/22
EMI Receiver	ROHDE & SCHWARZ	ESCI 3	100443	2018/03/15	2019/03/14
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-740	2018/06/13	2019/06/12
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2018/09/04	2019/09/03
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	2.4GHz: PIFA Antenna / 5GHz: Dipole Antenna
Antenna Gain	2400-2483.5MHz: ANT A: 1.9dBi, ANT B: 1.8dBi 5150-5250MHz: ANT A: 3.7dBi, ANT B: 2.9dBi 5725-5850MHz: ANT A: 3.7dBi, ANT B: 3.7dBi

(Non-Beamforming)

2400-2483.5MHz
For Power directional gain= G_{ant}= 1.90 dBi For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT] = 4.86 (dBi)
5150-5250MHz
For Power directional gain= G_{ant}= 3.70 dBi For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT] = 6.32 (dBi)
5725-5850MHz
For Power directional gain= G_{ant}= 3.70 dBi For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT] = 6.71 (dBi)

(Beamforming)

5150-5250MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT] = 6.32 (dBi) For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT]= 6.32 (dBi)
5725-5850MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT] = 6.71 (dBi) For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /NANT]= 6.71 (dBi)

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 C63.4-2014. 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.

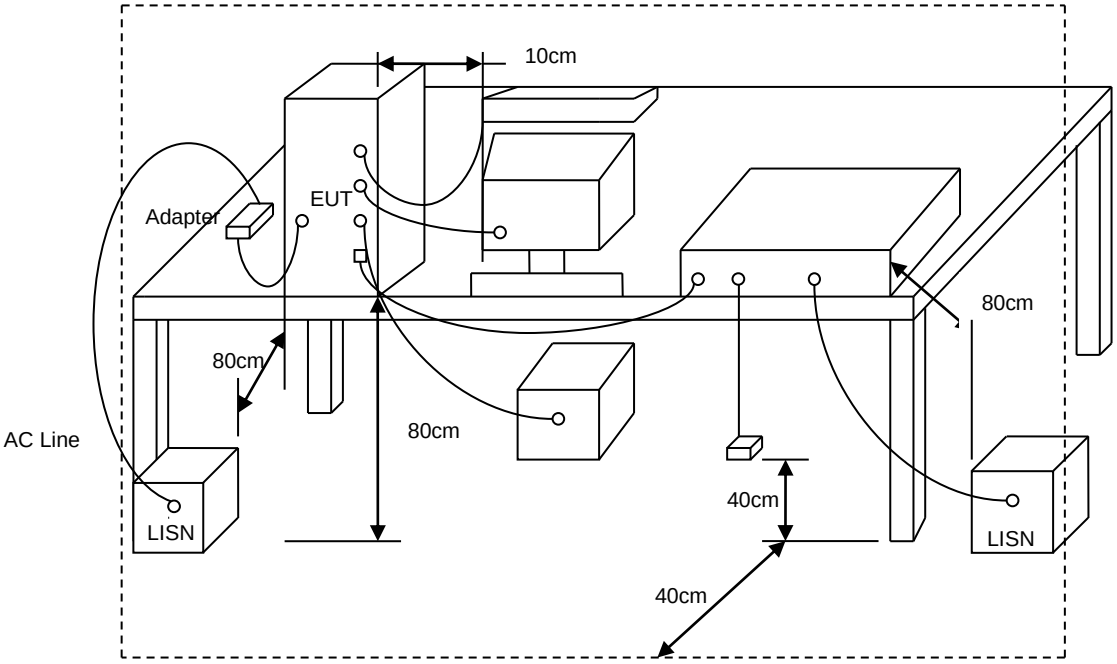
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

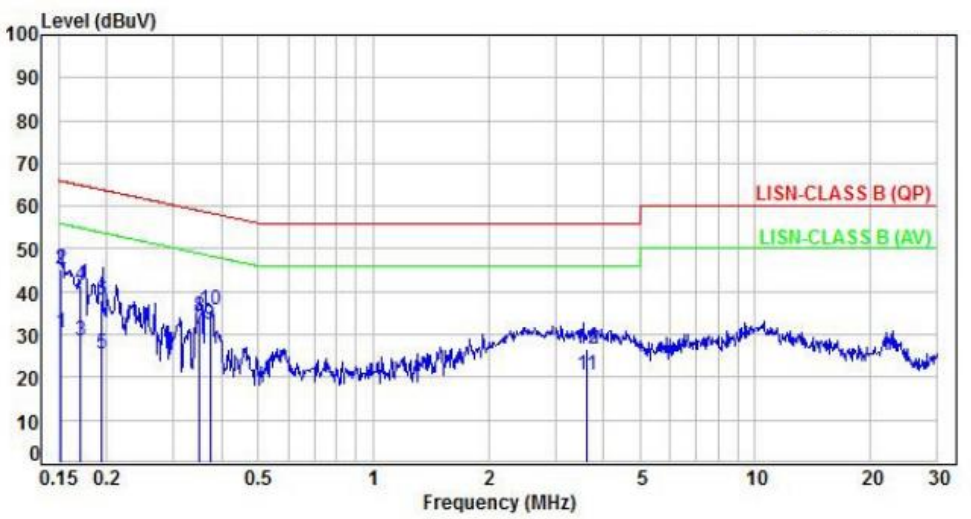
a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
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

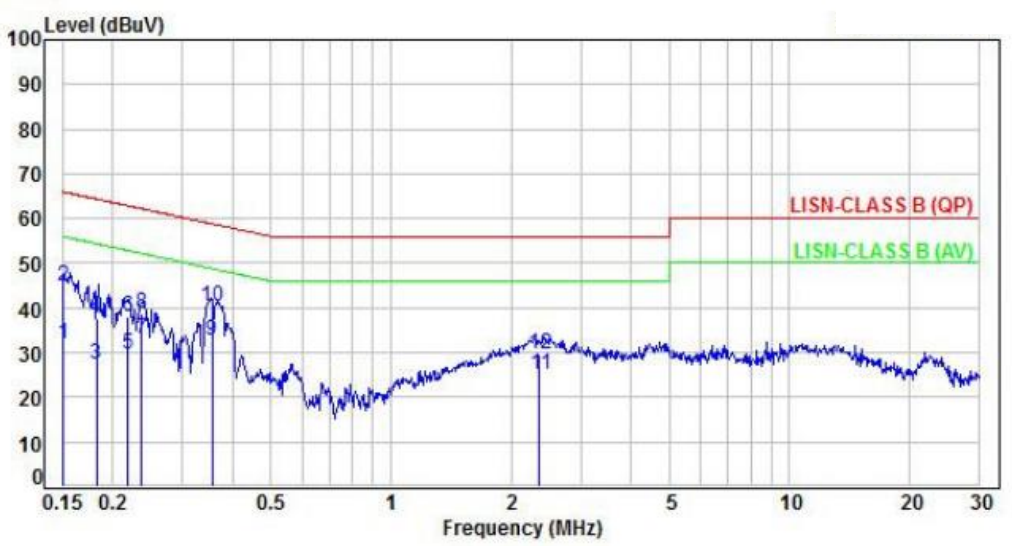
Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode	:	Mode 2	Temperature	:	22 °C
Test Date	:	Dec. 20, 2018	Humidity	:	49 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.94	20.49	30.43	55.88	-25.45	Average	P
2	0.15	9.94	35.24	45.18	65.88	-20.70	QP	P
3	0.17	9.94	18.60	28.54	54.88	-26.34	Average	P
4	0.17	9.94	31.56	41.50	64.88	-23.38	QP	P
5	0.19	9.94	15.67	25.61	53.90	-28.29	Average	P
6	0.19	9.94	28.02	37.96	63.90	-25.94	QP	P
7	0.35	9.95	21.20	31.15	49.00	-17.85	Average	P
8	0.35	9.95	24.18	34.13	59.00	-24.87	QP	P
9	0.37	9.95	22.28	32.23	48.43	-16.20	Average	P
10	0.37	9.95	25.76	35.71	58.43	-22.72	QP	P
11	3.62	10.12	10.49	20.61	46.00	-25.39	Average	P
12	3.62	10.12	16.44	26.56	56.00	-29.44	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Power	:	AC 120V	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 2	Temperature	:	22 °C
Test Date	:	Dec. 20, 2018	Humidity	:	49 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.94	21.81	31.75	55.94	-24.19	Average	P
2	0.15	9.94	35.07	45.01	65.94	-20.93	QP	P
3	0.18	9.94	17.52	27.46	54.39	-26.93	Average	P
4	0.18	9.94	27.70	37.64	64.39	-26.75	QP	P
5	0.22	9.94	19.64	29.58	52.87	-23.29	Average	P
6	0.22	9.94	28.25	38.19	62.87	-24.68	QP	P
7	0.24	9.94	23.02	32.96	52.25	-19.29	Average	P
8	0.24	9.94	28.95	38.89	62.25	-23.36	QP	P
9	0.36	9.95	22.68	32.63	48.84	-16.21	Average	P
10	0.36	9.95	30.19	40.14	58.84	-18.70	QP	P
11	2.36	10.05	14.90	24.95	46.00	-21.05	Average	P
12	2.36	10.05	19.78	29.83	56.00	-26.17	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

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.

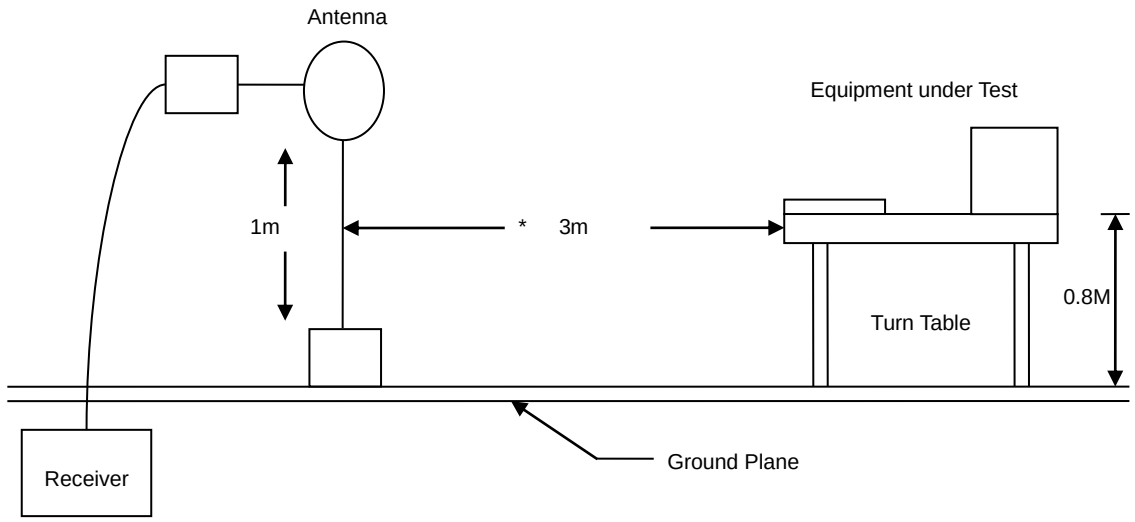
g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

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.

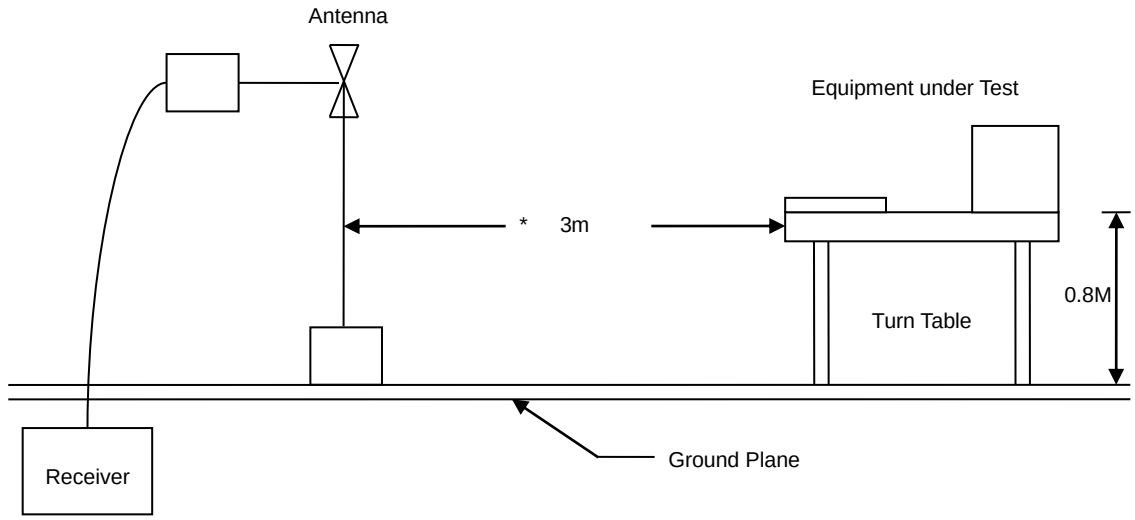
i. “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

6.3 Typical Test Setup

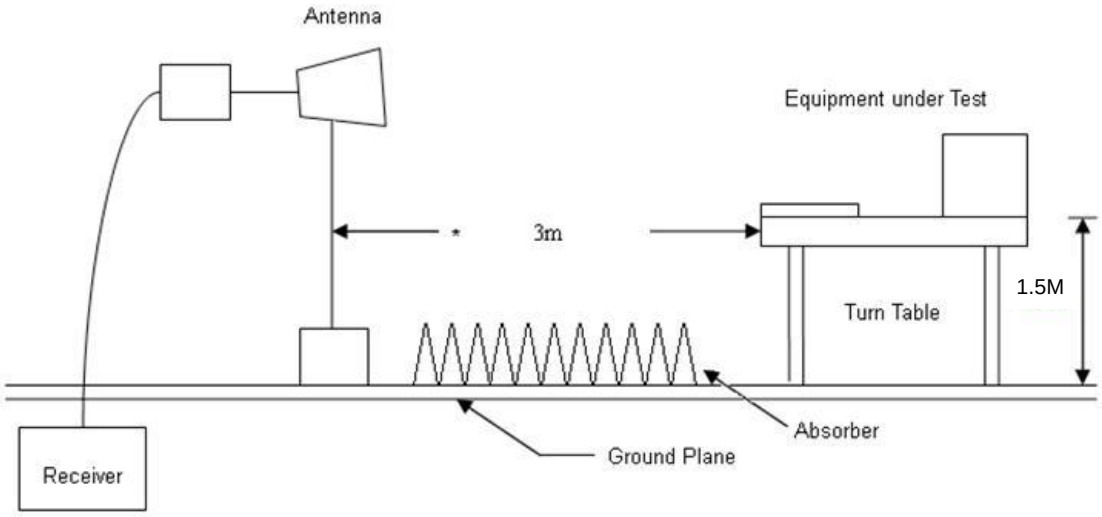
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

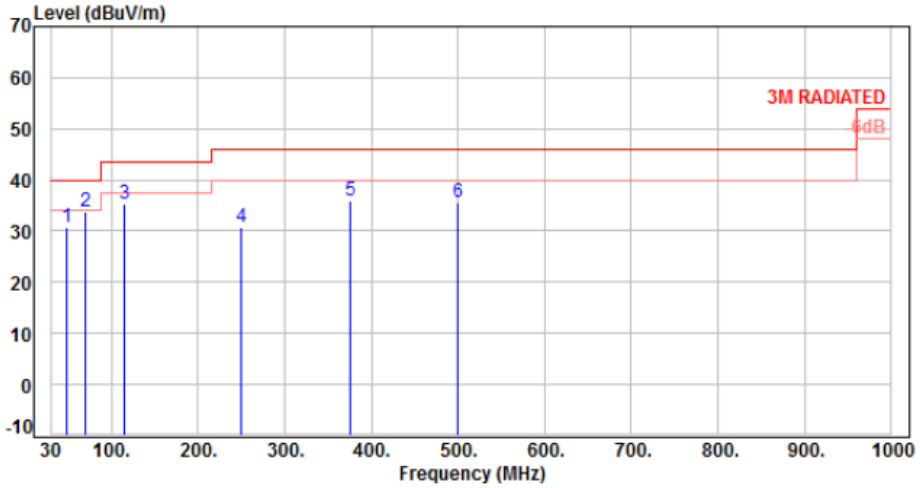


6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

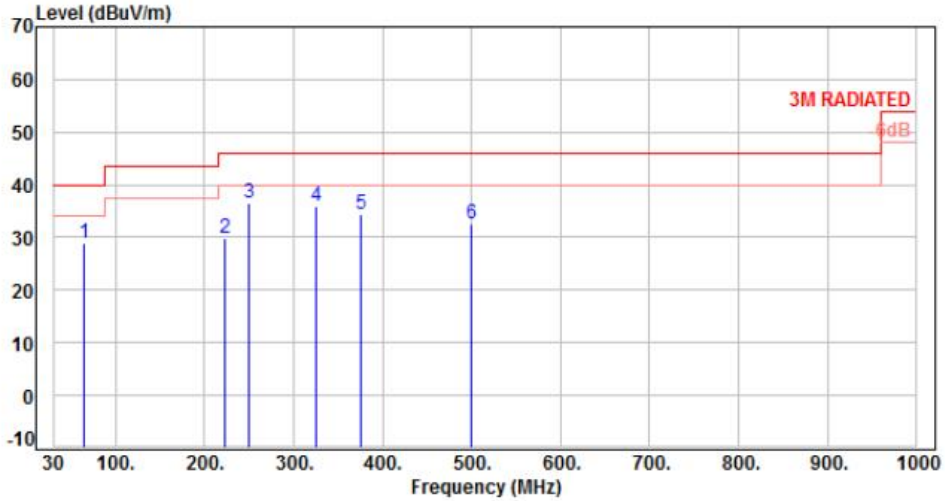
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2	Temperature	:	22 °C
Test Date	:	Dec. 17, 2018	Humidity	:	59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	48.43	-9.42	40.32	30.90	40.00	-9.10	Peak	400	0	P
2	69.77	-11.42	45.09	33.67	40.00	-6.33	Peak	400	0	P
3	115.36	-12.22	47.48	35.26	43.50	-8.24	Peak	400	0	P
4	250.19	-10.23	41.00	30.77	46.00	-15.23	Peak	400	0	P
5	375.32	-6.35	42.20	35.85	46.00	-10.15	Peak	400	0	P
6	500.45	-3.64	39.34	35.70	46.00	-10.30	Peak	400	0	P

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

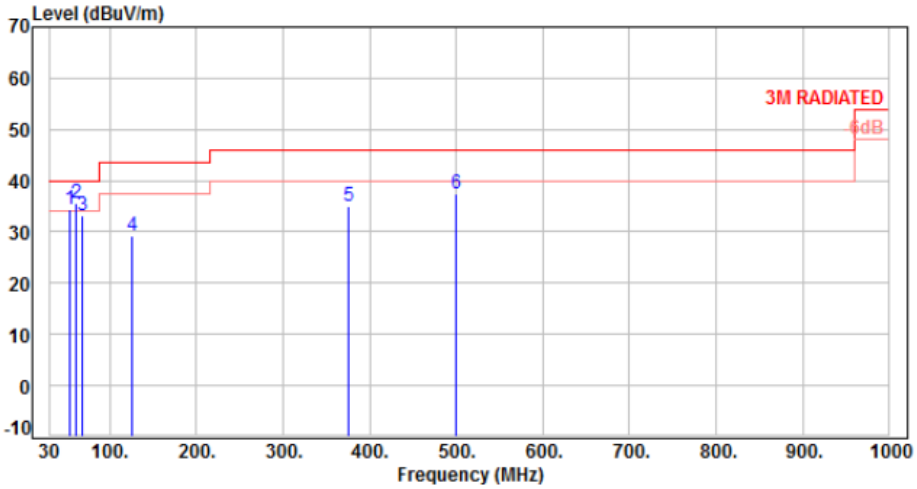
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2	Temperature	:	22 °C
Test Date	:	Dec. 17, 2018	Humidity	:	59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	64.92	-10.56	39.56	29.00	40.00	-11.00	Peak	100	0	P
2	222.06	-11.50	41.22	29.72	46.00	-16.28	Peak	100	0	P
3	250.19	-10.23	46.80	36.57	46.00	-9.43	Peak	100	0	P
4	324.88	-7.89	43.95	36.06	46.00	-9.94	Peak	100	0	P
5	375.32	-6.35	40.88	34.53	46.00	-11.47	Peak	100	0	P
6	500.45	-3.64	36.19	32.55	46.00	-13.45	Peak	100	0	P

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

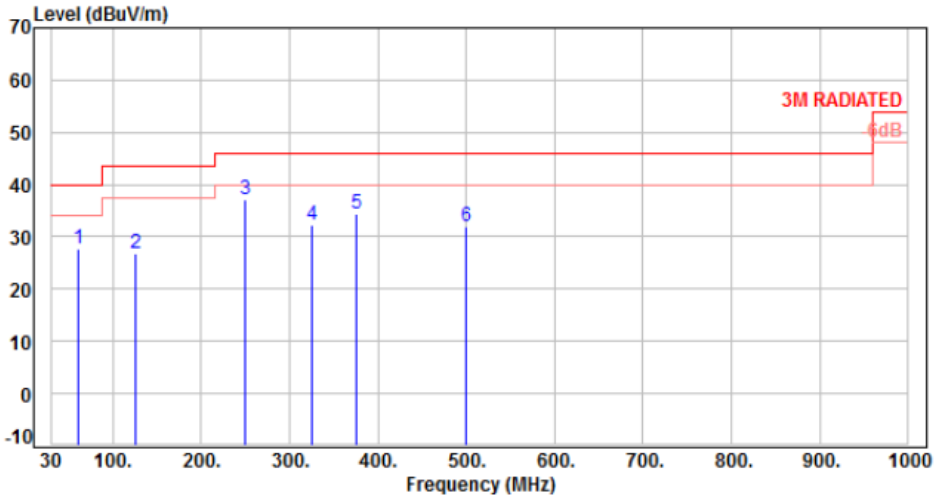
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6	Temperature	:	22 °C
Test Date	:	Dec. 17, 2018	Humidity	:	59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	53.28	-9.57	43.91	34.34	40.00	-5.66	Peak	400	0	P
2	61.04	-10.17	45.65	35.48	40.00	-4.52	Peak	400	0	P
3	68.80	-11.23	44.50	33.27	40.00	-6.73	QP	100	311	P
4	125.06	-11.24	40.38	29.14	43.50	-14.36	Peak	400	0	P
5	375.32	-6.35	41.47	35.12	46.00	-10.88	Peak	400	0	P
6	500.45	-3.64	41.11	37.47	46.00	-8.53	Peak	400	0	P

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6	Temperature	:	22 °C
Test Date	:	Dec. 17, 2018	Humidity	:	59 %

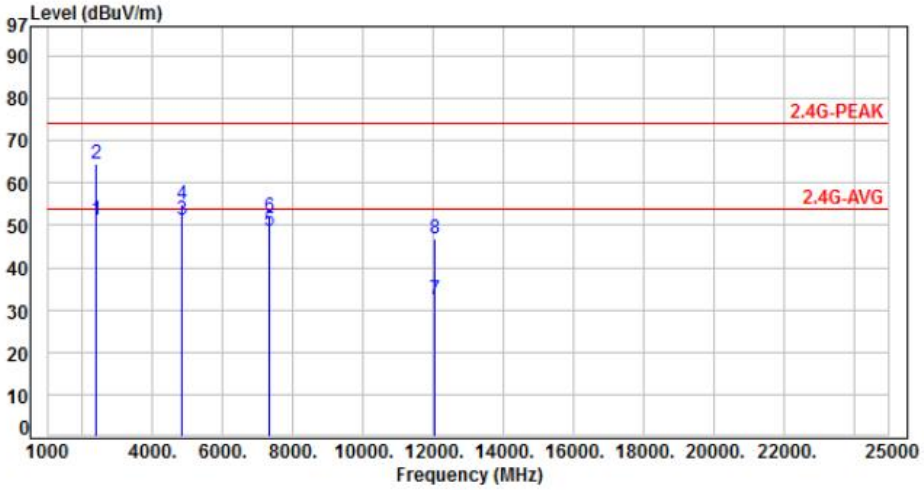


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	61.04	-10.17	37.81	27.64	40.00	-12.36	Peak	100	0	P
2	125.06	-11.24	37.97	26.73	43.50	-16.77	Peak	100	0	P
3	250.19	-10.23	47.37	37.14	46.00	-8.86	Peak	100	0	P
4	324.88	-7.89	40.04	32.15	46.00	-13.85	Peak	100	0	P
5	375.32	-6.35	40.90	34.55	46.00	-11.45	Peak	100	0	P
6	500.45	-3.64	35.65	32.01	46.00	-13.99	Peak	100	0	P

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

6.6 Test Result and Data (1GHz ~ 25GHz)

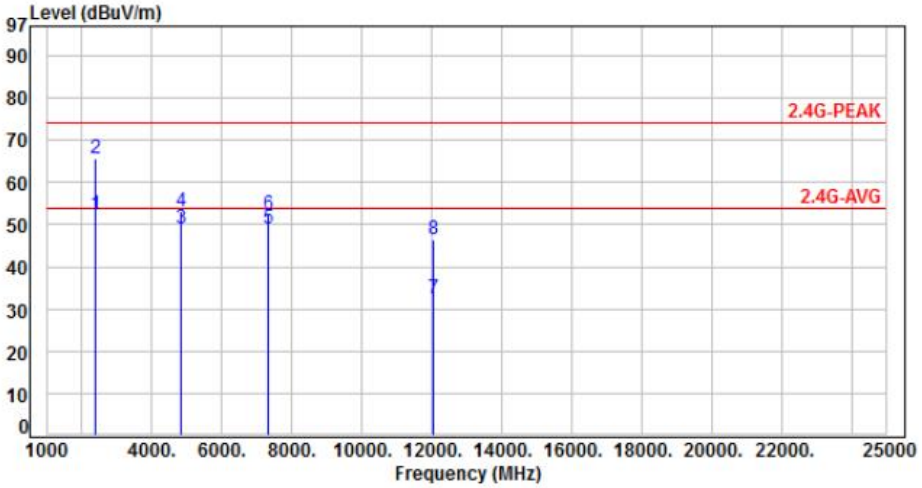
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2375.00	-15.72	66.89	51.17	54.00	-2.83	Average	331	332	P
2	2375.00	-15.72	80.29	64.57	74.00	-9.43	Peak	331	332	P
3	4824.00	-8.47	59.90	51.43	54.00	-2.57	Average	372	350	P
4	4824.00	-8.47	63.30	54.83	74.00	-19.17	Peak	372	350	P
5	7333.00	-3.80	52.45	48.65	54.00	-5.35	Average	200	342	P
6	7333.00	-3.80	55.82	52.02	74.00	-21.98	Peak	200	342	P
7	12060.00	1.79	30.52	32.31	54.00	-21.69	Average	100	102	P
8	12060.00	1.79	45.10	46.89	74.00	-27.11	Peak	100	102	P

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

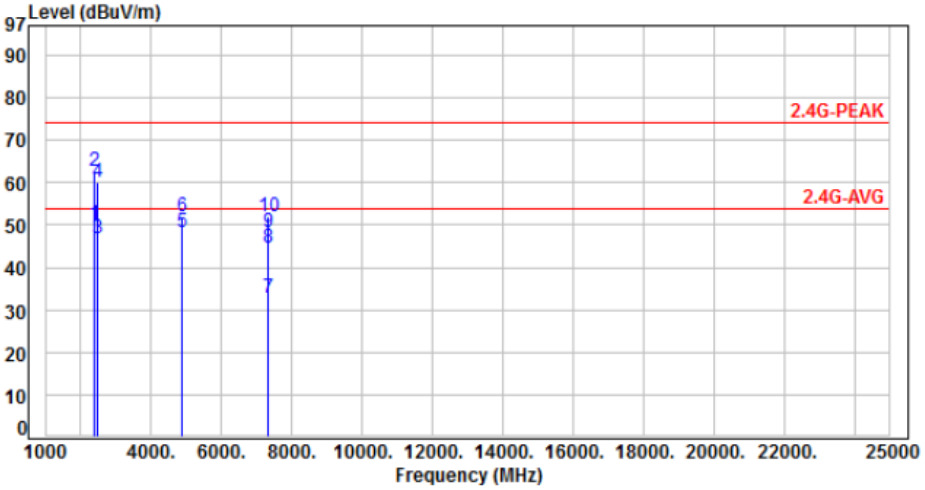
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2375.00	-15.72	68.19	52.47	54.00	-1.53	Average	377	70	P
2	2375.00	-15.72	81.29	65.57	74.00	-8.43	Peak	377	70	P
3	4824.00	-8.47	57.60	49.13	54.00	-4.87	Average	380	36	P
4	4824.00	-8.47	61.40	52.93	74.00	-21.07	Peak	380	36	P
5	7333.00	-3.80	52.93	49.13	54.00	-4.87	Average	100	299	P
6	7333.00	-3.80	56.10	52.30	74.00	-21.70	Peak	100	299	P
7	12060.00	1.79	30.55	32.34	54.00	-21.66	Average	100	311	P
8	12060.00	1.79	44.82	46.61	74.00	-27.39	Peak	100	311	P

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

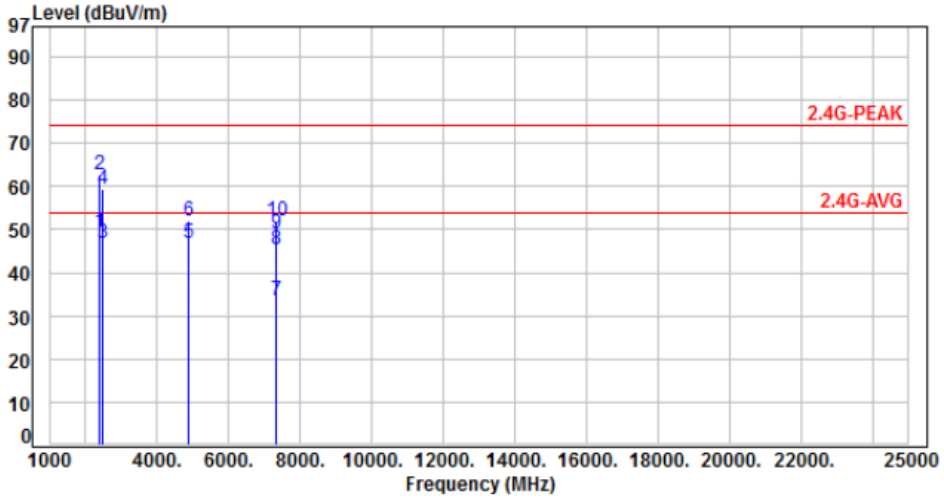
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	65.70	50.02	54.00	-3.98	Average	371	310	P
2	2390.00	-15.68	78.50	62.82	74.00	-11.18	Peak	371	310	P
3	2483.50	-15.36	62.30	46.94	54.00	-7.06	Average	371	310	P
4	2483.50	-15.36	75.30	59.94	74.00	-14.06	Peak	371	310	P
5	4874.00	-8.33	56.60	48.27	54.00	-5.73	Average	388	346	P
6	4874.00	-8.33	60.50	52.17	74.00	-21.83	Peak	388	346	P
7	7311.00	-3.86	36.54	32.68	54.00	-21.32	Average	130	190	P
8	7311.00	-3.86	48.33	44.47	74.00	-29.53	Peak	130	190	P
9	7333.00	-3.80	52.30	48.50	54.00	-5.50	Average	192	336	P
10	7333.00	-3.80	55.70	51.90	74.00	-22.10	Peak	192	336	P

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

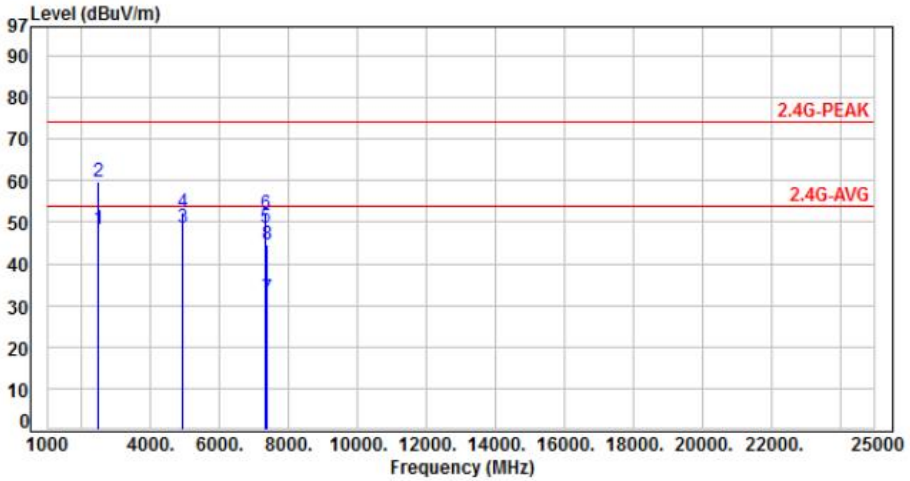
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	65.10	49.42	54.00	-4.58	Average	100	270	P
2	2390.00	-15.68	78.30	62.62	74.00	-11.38	Peak	100	270	P
3	2483.50	-15.36	62.36	47.00	54.00	-7.00	Average	100	270	P
4	2483.50	-15.36	74.80	59.44	74.00	-14.56	Peak	100	270	P
5	4874.00	-8.33	55.20	46.87	54.00	-7.13	Average	373	41	P
6	4874.00	-8.33	60.50	52.17	74.00	-21.83	Peak	373	41	P
7	7311.00	-3.86	37.54	33.68	54.00	-20.32	Average	314	310	P
8	7311.00	-3.86	49.20	45.34	74.00	-28.66	Peak	314	310	P
9	7333.00	-3.80	52.85	49.05	54.00	-4.95	Average	100	285	P
10	7333.00	-3.80	55.90	52.10	74.00	-21.90	Peak	100	285	P

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

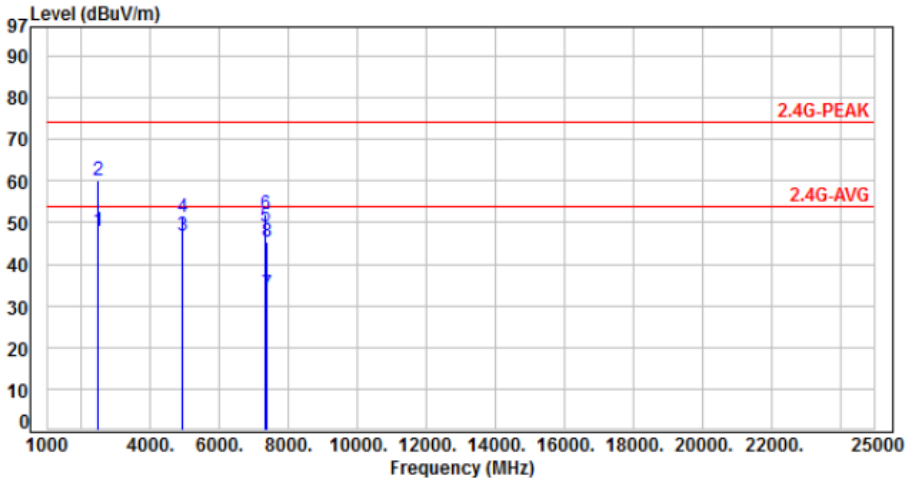
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2486.00	-15.35	63.50	48.15	54.00	-5.85	Average	100	119	P
2	2486.00	-15.35	75.20	59.85	74.00	-14.15	Peak	100	119	P
3	4924.00	-8.18	57.00	48.82	54.00	-5.18	Average	383	345	P
4	4924.00	-8.18	60.60	52.42	74.00	-21.58	Peak	383	345	P
5	7333.00	-3.80	52.35	48.55	54.00	-5.45	Average	194	352	P
6	7333.00	-3.80	55.93	52.13	74.00	-21.87	Peak	194	352	P
7	7386.00	-3.67	35.37	31.70	54.00	-22.30	Average	100	103	P
8	7386.00	-3.67	48.21	44.54	74.00	-29.46	Peak	100	103	P

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

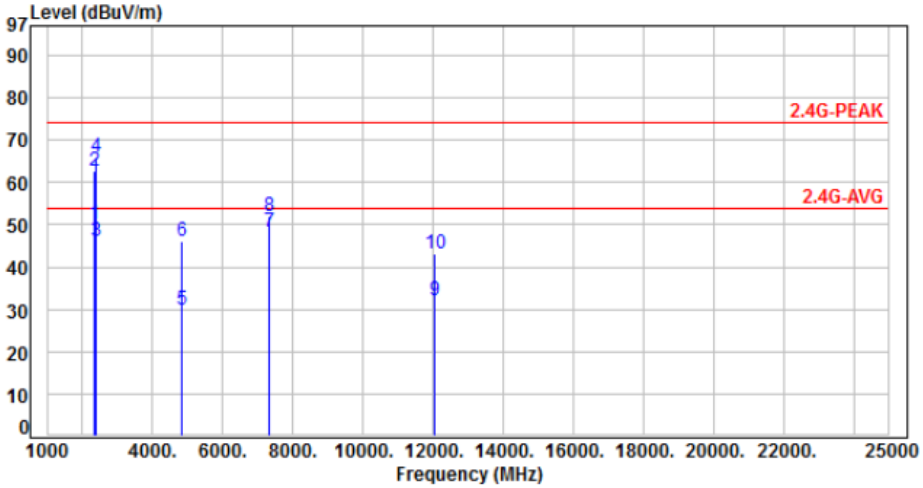
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2486.00	-15.35	63.20	47.85	54.00	-6.15	Average	100	27	P
2	2486.00	-15.35	75.30	59.95	74.00	-14.05	Peak	100	27	P
3	4924.00	-8.18	55.20	47.02	54.00	-6.98	Average	389	45	P
4	4924.00	-8.18	59.60	51.42	74.00	-22.58	Peak	389	45	P
5	7333.00	-3.80	52.67	48.87	54.00	-5.13	Average	100	281	P
6	7333.00	-3.80	55.93	52.13	74.00	-21.87	Peak	100	281	P
7	7386.00	-3.67	36.41	32.74	54.00	-21.26	Average	355	308	P
8	7386.00	-3.67	49.21	45.54	74.00	-28.46	Peak	355	308	P

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

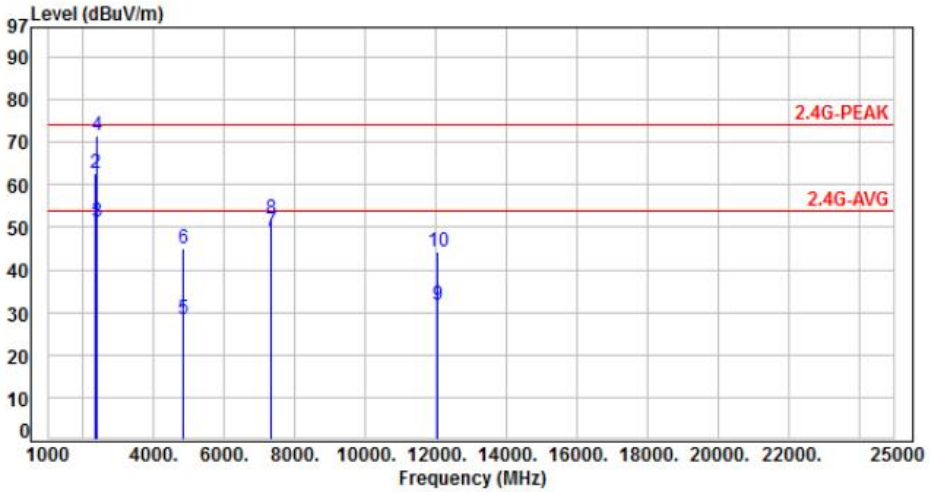
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2366.00	-15.75	66.09	50.34	54.00	-3.66	Average	100	15	P
2	2366.00	-15.75	78.49	62.74	74.00	-11.26	Peak	100	15	P
3	2390.00	-15.68	61.90	46.22	54.00	-7.78	Average	100	15	P
4	2390.00	-15.68	81.60	65.92	74.00	-8.08	Peak	100	15	P
5	4824.00	-8.47	38.50	30.03	54.00	-23.97	Average	262	340	P
6	4824.00	-8.47	54.60	46.13	74.00	-27.87	Peak	262	340	P
7	7333.00	-3.80	52.18	48.38	54.00	-5.62	Average	188	312	P
8	7333.00	-3.80	55.93	52.13	74.00	-21.87	Peak	188	312	P
9	12060.00	1.79	30.35	32.14	54.00	-21.86	Average	100	102	P
10	12060.00	1.79	41.33	43.12	74.00	-30.88	Peak	100	102	P

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

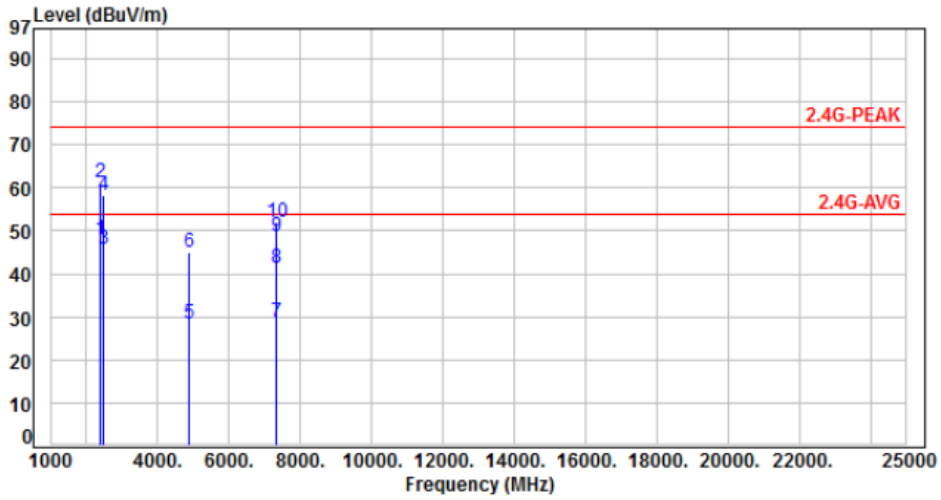
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2366.00	-15.75	66.69	50.94	54.00	-3.06	Average	100	32	P
2	2366.00	-15.75	78.59	62.84	74.00	-11.16	Peak	100	32	P
3	2390.00	-15.68	67.00	51.32	54.00	-2.68	Average	100	32	P
4	2390.00	-15.68	87.40	71.72	74.00	-2.28	Peak	100	32	P
5	4824.00	-8.47	36.70	28.23	54.00	-25.77	Average	240	26	P
6	4824.00	-8.47	53.50	45.03	74.00	-28.97	Peak	240	26	P
7	7333.00	-3.80	52.67	48.87	54.00	-5.13	Average	100	300	P
8	7333.00	-3.80	55.81	52.01	74.00	-21.99	Peak	100	300	P
9	12060.00	1.79	29.85	31.64	54.00	-22.36	Average	100	337	P
10	12060.00	1.79	42.33	44.12	74.00	-29.88	Peak	100	337	P

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

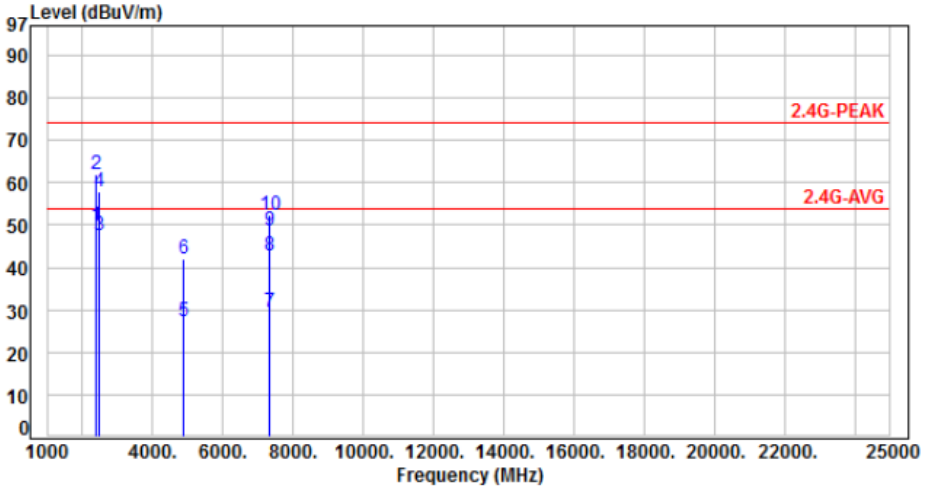
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	63.60	47.92	54.00	-6.08	Average	110	351	P
2	2390.00	-15.68	76.80	61.12	74.00	-12.88	Peak	110	351	P
3	2483.50	-15.36	61.20	45.84	54.00	-8.16	Average	110	351	P
4	2483.50	-15.36	73.60	58.24	74.00	-15.76	Peak	110	351	P
5	4874.00	-8.33	36.90	28.57	54.00	-25.43	Average	156	340	P
6	4874.00	-8.33	53.50	45.17	74.00	-28.83	Peak	156	340	P
7	7311.00	-3.86	32.69	28.83	54.00	-25.17	Average	100	102	P
8	7311.00	-3.86	45.33	41.47	74.00	-32.53	Peak	100	102	P
9	7333.00	-3.80	52.34	48.54	54.00	-5.46	Average	188	342	P
10	7333.00	-3.80	55.75	51.95	74.00	-22.05	Peak	188	342	P

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

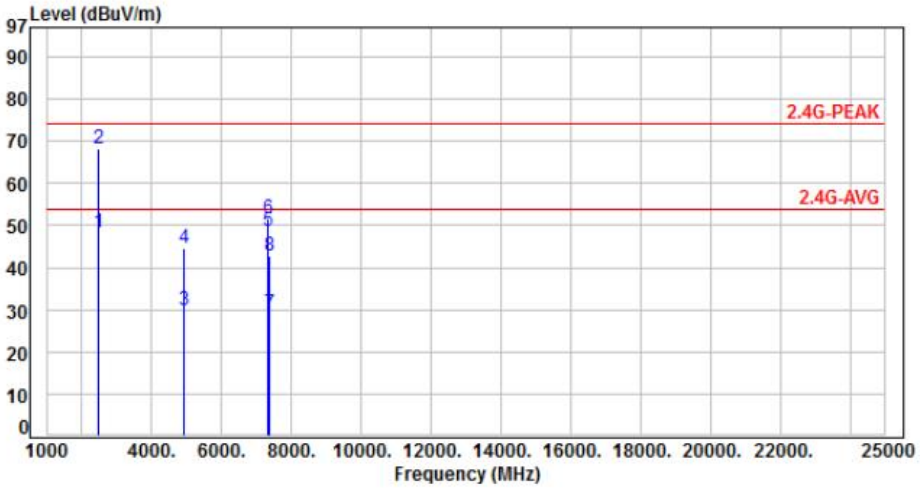
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	65.50	49.82	54.00	-4.18	Average	100	50	P
2	2390.00	-15.68	77.80	62.12	74.00	-11.88	Peak	100	50	P
3	2483.50	-15.36	62.80	47.44	54.00	-6.56	Average	100	50	P
4	2483.50	-15.36	73.20	57.84	74.00	-16.16	Peak	100	50	P
5	4874.00	-8.33	35.60	27.27	54.00	-26.73	Average	157	338	P
6	4874.00	-8.33	50.50	42.17	74.00	-31.83	Peak	157	338	P
7	7311.00	-3.86	33.50	29.64	54.00	-24.36	Average	100	299	P
8	7311.00	-3.86	46.60	42.74	74.00	-31.26	Peak	100	299	P
9	7333.00	-3.80	52.61	48.81	54.00	-5.19	Average	105	267	P
10	7333.00	-3.80	56.33	52.53	74.00	-21.47	Peak	105	267	P

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

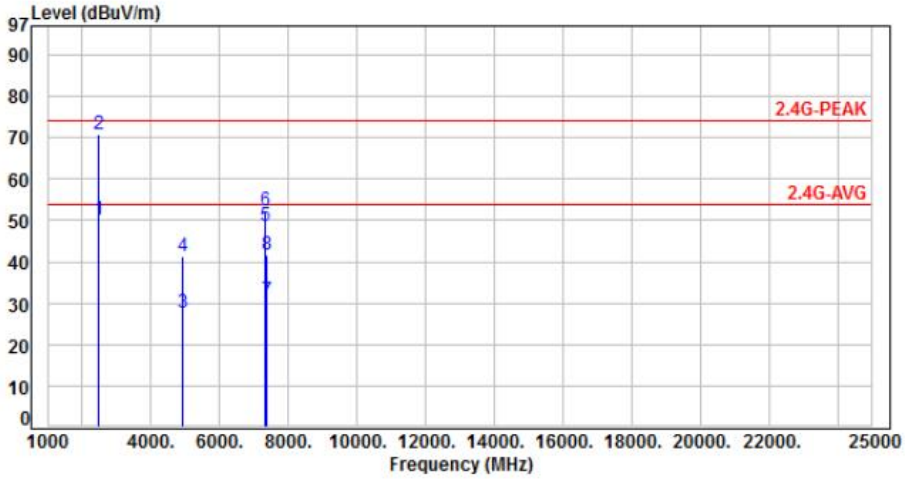
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.36	63.80	48.44	54.00	-5.56	Average	103	344	P
2	2483.50	-15.36	83.60	68.24	74.00	-5.76	Peak	103	344	P
3	4924.00	-8.18	38.20	30.02	54.00	-23.98	Average	220	15	P
4	4924.00	-8.18	52.90	44.72	74.00	-29.28	Peak	220	15	P
5	7333.00	-3.80	52.45	48.65	54.00	-5.35	Average	188	332	P
6	7333.00	-3.80	55.61	51.81	74.00	-22.19	Peak	188	332	P
7	7386.00	-3.67	32.96	29.29	54.00	-24.71	Average	100	88	P
8	7386.00	-3.67	46.28	42.61	74.00	-31.39	Peak	100	88	P

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

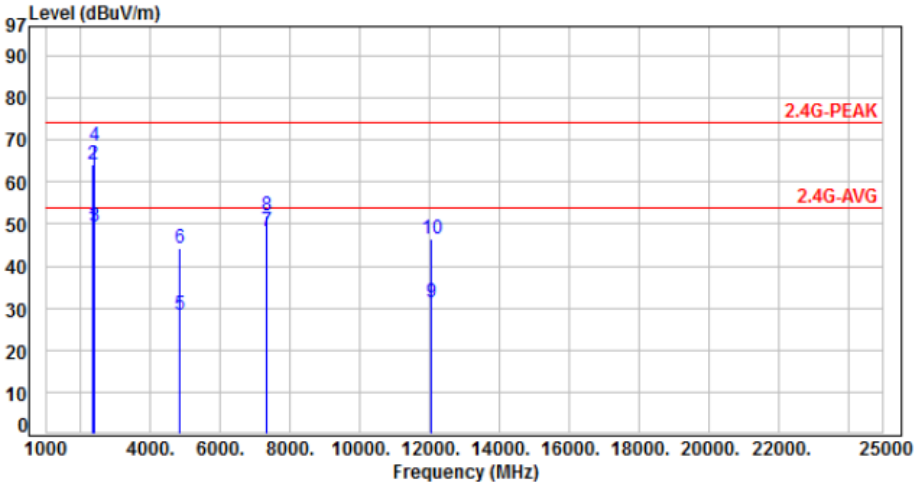
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.36	65.60	50.24	54.00	-3.76	Average	100	40	P
2	2483.50	-15.36	86.30	70.94	74.00	-3.06	Peak	100	40	P
3	4924.00	-8.18	35.90	27.72	54.00	-26.28	Average	143	290	P
4	4924.00	-8.18	49.50	41.32	74.00	-32.68	Peak	143	290	P
5	7333.00	-3.80	52.66	48.86	54.00	-5.14	Average	112	273	P
6	7333.00	-3.80	56.34	52.54	74.00	-21.46	Peak	112	273	P
7	7386.00	-3.67	34.12	30.45	54.00	-23.55	Average	100	309	P
8	7386.00	-3.67	45.51	41.84	74.00	-32.16	Peak	100	309	P

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

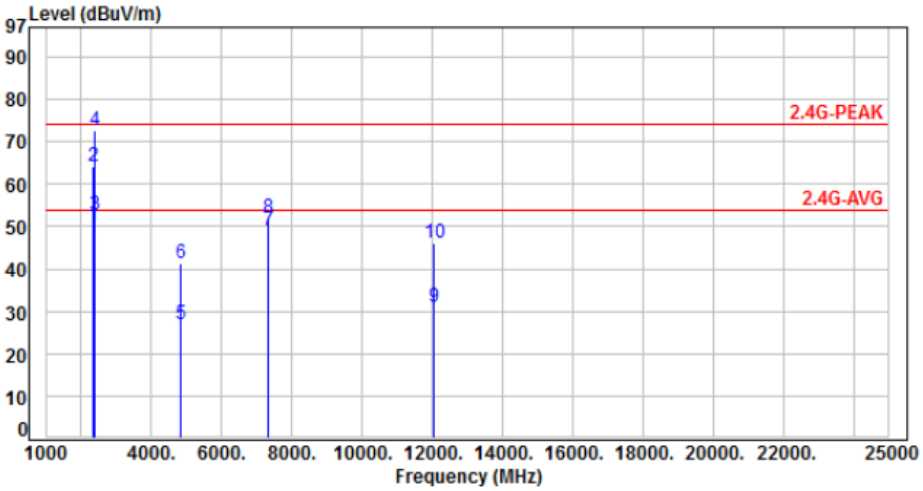
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2366.00	-15.75	64.69	48.94	54.00	-5.06	Average	141	330	P
2	2366.00	-15.75	79.79	64.04	74.00	-9.96	Peak	141	330	P
3	2390.00	-15.68	65.20	49.52	54.00	-4.48	Average	141	330	P
4	2390.00	-15.68	84.35	68.67	74.00	-5.33	Peak	141	330	P
5	4824.00	-8.47	36.90	28.43	54.00	-25.57	Average	100	112	P
6	4824.00	-8.47	52.80	44.33	74.00	-29.67	Peak	100	112	P
7	7333.00	-3.80	52.26	48.46	54.00	-5.54	Average	187	345	P
8	7333.00	-3.80	55.85	52.05	74.00	-21.95	Peak	187	345	P
9	12060.00	1.79	29.61	31.40	54.00	-22.60	Average	100	112	P
10	12060.00	1.79	44.57	46.36	74.00	-27.64	Peak	100	112	P

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

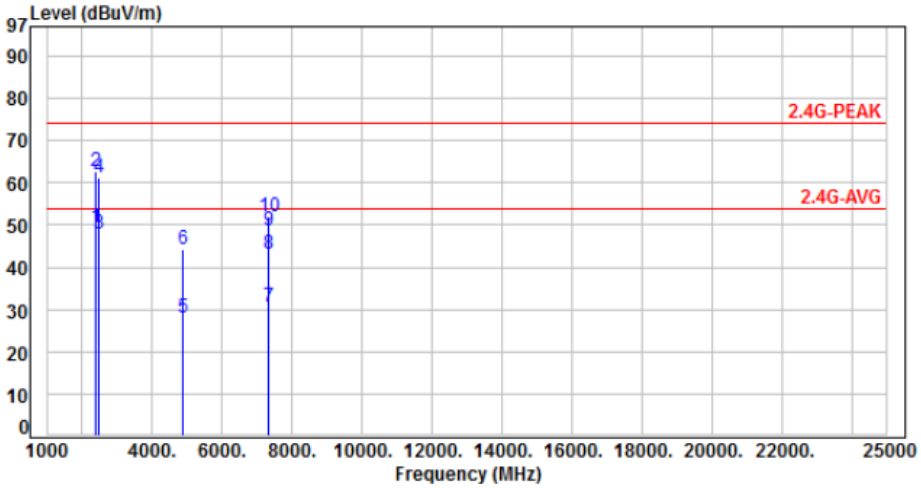
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2366.00	-15.75	66.09	50.34	54.00	-3.66	Average	100	39	P
2	2366.00	-15.75	80.05	64.30	74.00	-9.70	Peak	100	39	P
3	2390.00	-15.68	68.40	52.72	54.00	-1.28	Average	100	39	P
4	2390.00	-15.68	88.20	72.52	74.00	-1.48	Peak	100	39	P
5	4824.00	-8.47	35.50	27.03	54.00	-26.97	Average	382	30	P
6	4824.00	-8.47	49.80	41.33	74.00	-32.67	Peak	382	30	P
7	7333.00	-3.80	52.76	48.96	54.00	-5.04	Average	100	300	P
8	7333.00	-3.80	55.81	52.01	74.00	-21.99	Peak	100	300	P
9	12060.00	1.79	29.25	31.04	54.00	-22.96	Average	100	311	P
10	12060.00	1.79	44.32	46.11	74.00	-27.89	Peak	100	311	P

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

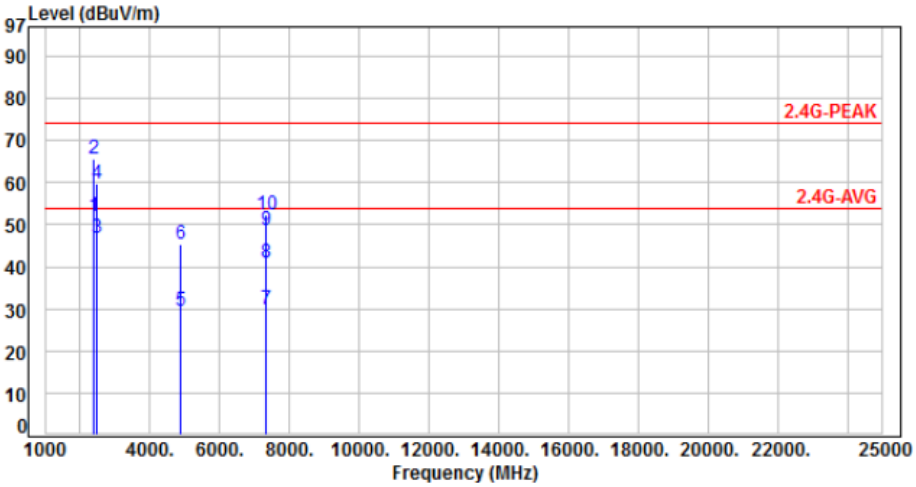
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	65.00	49.32	54.00	-4.68	Average	100	320	P
2	2390.00	-15.68	78.20	62.52	74.00	-11.48	Peak	100	320	P
3	2483.50	-15.36	63.30	47.94	54.00	-6.06	Average	100	320	P
4	2483.50	-15.36	76.50	61.14	74.00	-12.86	Peak	100	320	P
5	4874.00	-8.33	36.50	28.17	54.00	-25.83	Average	378	342	P
6	4874.00	-8.33	52.60	44.27	74.00	-29.73	Peak	378	342	P
7	7311.00	-3.86	34.52	30.66	54.00	-23.34	Average	100	116	P
8	7311.00	-3.86	46.88	43.02	74.00	-30.98	Peak	100	116	P
9	7333.00	-3.80	52.45	48.65	54.00	-5.35	Average	186	327	P
10	7333.00	-3.80	55.88	52.08	74.00	-21.92	Peak	186	327	P

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

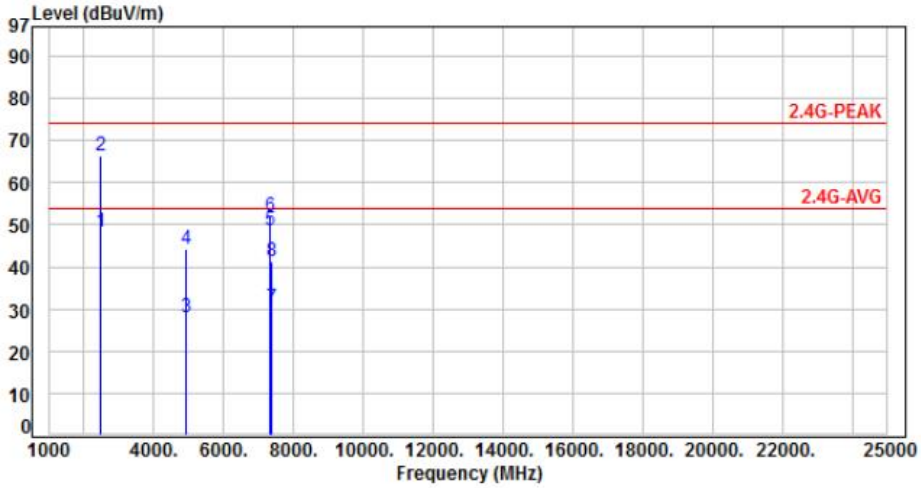
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	67.80	52.12	54.00	-1.88	Average	100	57	P
2	2390.00	-15.68	81.50	65.82	74.00	-8.18	Peak	100	57	P
3	2483.50	-15.36	62.30	46.94	54.00	-7.06	Average	100	57	P
4	2483.50	-15.36	75.22	59.86	74.00	-14.14	Peak	100	57	P
5	4874.00	-8.33	37.80	29.47	54.00	-24.53	Average	100	344	P
6	4874.00	-8.33	53.60	45.27	74.00	-28.73	Peak	100	344	P
7	7311.00	-3.86	33.57	29.71	54.00	-24.29	Average	100	305	P
8	7311.00	-3.86	44.62	40.76	74.00	-33.24	Peak	100	305	P
9	7333.00	-3.80	52.66	48.86	54.00	-5.14	Average	102	299	P
10	7333.00	-3.80	56.30	52.50	74.00	-21.50	Peak	102	299	P

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

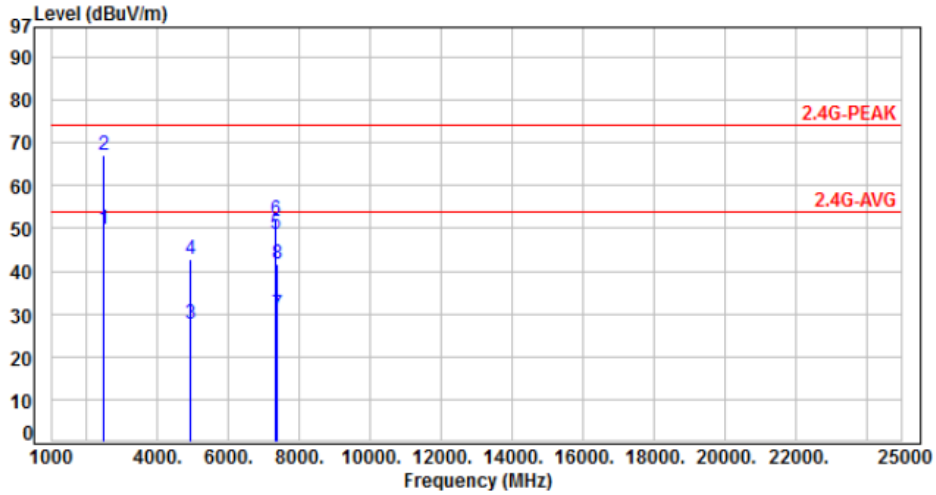
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.36	63.60	48.24	54.00	-5.76	Average	100	111	P
2	2483.50	-15.36	81.60	66.24	74.00	-7.76	Peak	100	111	P
3	4924.00	-8.18	36.30	28.12	54.00	-25.88	Average	178	334	P
4	4924.00	-8.18	52.30	44.12	74.00	-29.88	Peak	178	334	P
5	7333.00	-3.80	52.43	48.63	54.00	-5.37	Average	200	350	P
6	7333.00	-3.80	55.76	51.96	74.00	-22.04	Peak	200	350	P
7	7386.00	-3.67	34.03	30.36	54.00	-23.64	Average	100	99	P
8	7386.00	-3.67	44.84	41.17	74.00	-32.83	Peak	100	99	P

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

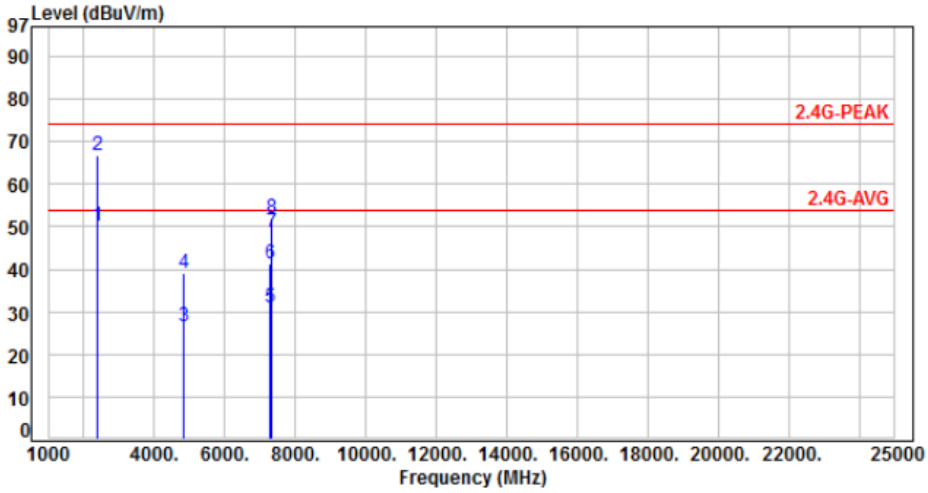
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH11	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.36	65.20	49.84	54.00	-4.16	Average	106	38	P
2	2483.50	-15.36	82.60	67.24	74.00	-6.76	Peak	106	38	P
3	4924.00	-8.18	35.70	27.52	54.00	-26.48	Average	100	300	P
4	4924.00	-8.18	50.80	42.62	74.00	-31.38	Peak	100	300	P
5	7333.00	-3.80	52.51	48.71	54.00	-5.29	Average	100	277	P
6	7333.00	-3.80	55.88	52.08	74.00	-21.92	Peak	100	277	P
7	7386.00	-3.67	33.53	29.86	54.00	-24.14	Average	100	325	P
8	7386.00	-3.67	45.22	41.55	74.00	-32.45	Peak	100	325	P

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

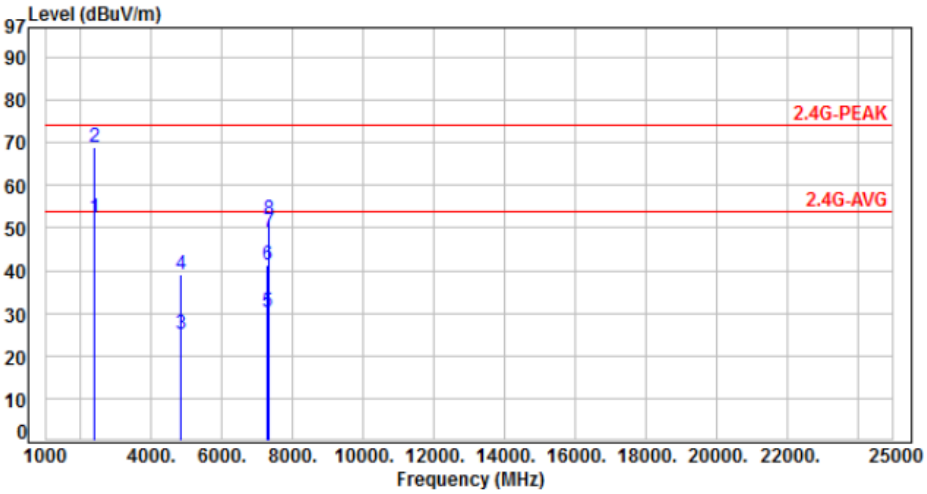
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH03	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	65.80	50.12	54.00	-3.88	Average	109	360	P
2	2390.00	-15.68	82.60	66.92	74.00	-7.08	Peak	109	360	P
3	4844.00	-8.41	34.82	26.41	54.00	-27.59	Average	100	144	P
4	4844.00	-8.41	47.67	39.26	74.00	-34.74	Peak	100	144	P
5	7266.00	-3.99	35.04	31.05	54.00	-22.95	Average	105	75	P
6	7266.00	-3.99	45.34	41.35	74.00	-32.65	Peak	105	75	P
7	7333.00	-3.80	52.36	48.56	54.00	-5.44	Average	196	321	P
8	7333.00	-3.80	55.73	51.93	74.00	-22.07	Peak	196	321	P

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

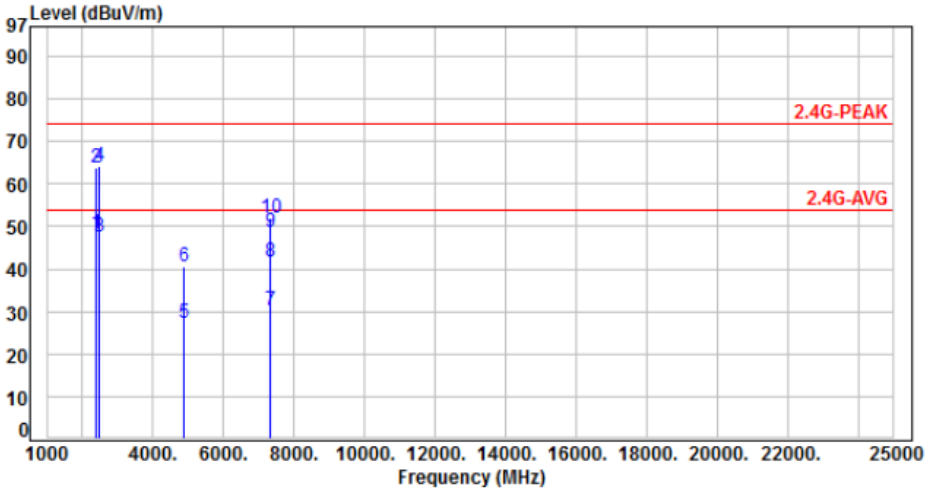
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH03	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	67.96	52.28	54.00	-1.72	Average	100	57	P
2	2390.00	-15.68	84.60	68.92	74.00	-5.08	Peak	100	57	P
3	4844.00	-8.41	33.52	25.11	54.00	-28.89	Average	100	196	P
4	4844.00	-8.41	47.65	39.24	74.00	-34.76	Peak	100	196	P
5	7266.00	-3.99	34.26	30.27	54.00	-23.73	Average	100	293	P
6	7266.00	-3.99	45.48	41.49	74.00	-32.51	Peak	100	293	P
7	7333.00	-3.80	52.77	48.97	54.00	-5.03	Average	105	281	P
8	7333.00	-3.80	55.67	51.87	74.00	-22.13	Peak	105	281	P

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

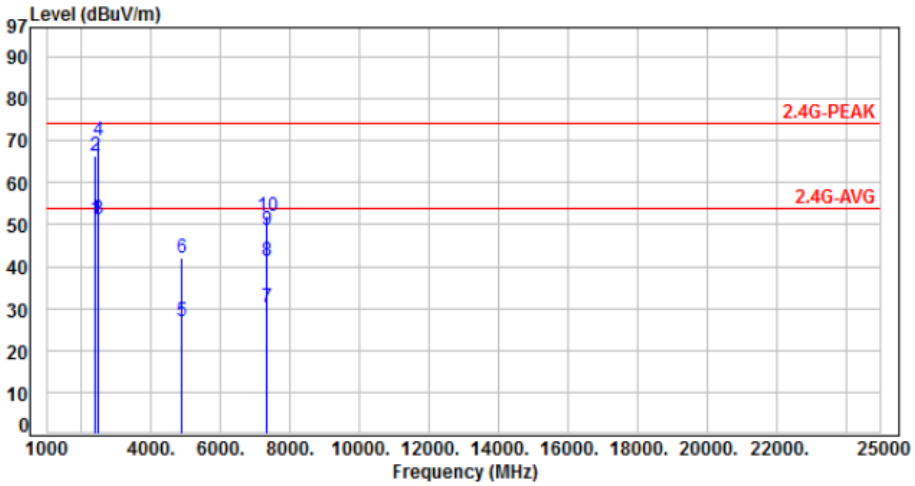
Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	63.90	48.22	54.00	-5.78	Average	100	329	P
2	2390.00	-15.68	79.60	63.92	74.00	-10.08	Peak	100	329	P
3	2483.50	-15.36	63.10	47.74	54.00	-6.26	Average	100	329	P
4	2483.50	-15.36	79.50	64.14	74.00	-9.86	Peak	100	329	P
5	4874.00	-8.33	35.55	27.22	54.00	-26.78	Average	111	137	P
6	4874.00	-8.33	48.80	40.47	74.00	-33.53	Peak	111	137	P
7	7311.00	-3.86	34.21	30.35	54.00	-23.65	Average	100	114	P
8	7311.00	-3.86	45.61	41.75	74.00	-32.25	Peak	100	114	P
9	7333.00	-3.80	52.45	48.65	54.00	-5.35	Average	193	345	P
10	7333.00	-3.80	55.88	52.08	74.00	-21.92	Peak	193	345	P

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH06	Temperature	:	23 °C
Test Date	:	Sep. 28, 2018	Humidity	:	62 %



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	-15.68	66.80	51.12	54.00	-2.88	Average	110	33	P
2	2390.00	-15.68	81.90	66.22	74.00	-7.78	Peak	110	33	P
3	2483.50	-15.36	66.80	51.44	54.00	-2.56	Average	110	33	P
4	2483.50	-15.36	85.60	70.24	74.00	-3.76	Peak	110	33	P
5	4874.00	-8.33	35.30	26.97	54.00	-27.03	Average	100	344	P
6	4874.00	-8.33	50.20	41.87	74.00	-32.13	Peak	100	344	P
7	7311.00	-3.86	34.21	30.35	54.00	-23.65	Average	100	302	P
8	7311.00	-3.86	45.22	41.36	74.00	-32.64	Peak	100	302	P
9	7333.00	-3.80	52.66	48.86	54.00	-5.14	Average	100	277	P
10	7333.00	-3.80	55.97	52.17	74.00	-21.83	Peak	100	277	P

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