



FCC RADIO TEST REPORT

Applicant : D-Link Corporation

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Equipment : Unified AC Concurrent Dual-band PoE Access Point

Model No. : DWL-6610APE

Trade Name : D-Link

FCC ID. : KA2WL6610APEB1

I HEREBY CERTIFY THAT :

The sample was received on Dec. 06, 2016 and the testing was carried out on Mar. 22, 2017 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Assistant Manager

Tested by:

Spree Yei / Engineer

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issue Date	Description
TEF1611182	Mar. 29, 2017	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

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

Equipment	Unified AC Concurrent Dual-band PoE Access Point
Model No.	DWL-6610APE
Brand Name	D-Link
Product Description	Please refer to User's Manual.
AC ADAPTER	Adapter Brand: D-Link Model No.: AMS115-1201500FV; AMS115-1201500FU; AMS115-1201500FB; AMS115-1201500FS I/P: AC 100-240V~, 50/60Hz, 0.8A ; O/P: DC 12V, 1.5A
Connecting I/O Port(s)	Please refer to User's Manual.
Frequency Range	802.11b/g/n/ac: 2412-2462 MHz 802.11a/an/ac: 5150MHz-5250MHz, 5725MHz -5850MHz
Modulation Type	OFDM, DSSS, FHSS
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type/ gain	Dipole antenna 2.4G: ANT 1: 3dBi; ANT 2: 3dBi 5G: ANT 1: 4dBi; ANT 2: 4dBi

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. 802.11ac VHT20, VHT40 and VHT80 support beamforming.

2.2 Description of Main Source and Second Source

Component Position	Main Source	Second Source
C857,C859	√	x
T13	√	x
R922	√	x
D36,D37	√	x
R915	√	x
Q8	√	x
R906,R908	0Ω	100Ω
C844	39pF	330pF
R918	0KΩ	10KΩ
Q5	N-Channel Shielded Gate Power Trench	DIODE



2.3 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.

2.4 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- The complete test system included Remote workstation and EUT for RF test. The Remote workstation included Notebook and Battery.
- An executive program, "Mtool 2.0.3.2" under WIN 7 was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:
 - Test Mode 1: 802.11b (1Mbps)
 - Test Mode 2: 802.11g (6Mbps)
 - Test Mode 3: 802.11n HT20 (6.5Mbps)
 - Test Mode 4: 802.11n HT40 (13.5Mbps)

For conduction test, caused "Test Mode 2" generated the worst case, it was reported as the final data.
 For radiation test (below 1GHz), caused "Test Mode 2" generated the worst case, it was reported as the final data.
 For radiation test (above 1GHz), caused "Test Mode 1~4" generated the worst case, they were reported as the final data.



2.5 Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Notebook	DELL	INSPIRON 510m	Power Cable, Unshielding, 1.8m
Notebook	DELL	Vostro 3560	Power Cable, Unshielding, 1.8m
Battery	YUASA	55B24R(S)-CMFII	N/A

Use Cable:

Cable	Quantity	Description
Network	1	Unshielding, 1.2m
RS-232	1	Unshielding, 1.2m



2.6 General Information of Test

Test Site	CerpPASS 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, 390316, 228391, 641184
	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-812, G-813 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.	

2.7 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	Line / Neutral	±2.9076 dB
Radiated Emission	9 kHz ~ 25,000 MHz	Vertical / Horizontal	±0.948 dB
Spurious Emission (Conducted)	-	-	±4.011 dB
Maximum Peak and Average Output Power	-	-	±0.322 dB
Power Spectral Density	-	-	±0.322 dB
Bandwidth	-	-	74.224Hz



3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI3	101423	2016/04/08	2017/04/07
LISN	Schwarzbeck	NSLK 8127	8127-740	2016/08/30	2017/08/29
Pulse Limiter	R&S	ESH3-Z2	101933	2016/08/29	2017/08/28
Bilog Antenna	Schwarzbeck	VULB9168	275	2016/08/26	2017/08/25
Active Loop Antenna	EMCO	6507	40855	2016/05/11	2017/05/10
Horn Antenna	EMCO	3115	31601	2016/09/05	2017/09/04
Horn Antenna	EMCO	3116	31970	2017/03/17	2018/03/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2017/03/15	2018/03/14
Preamplifier	EM	EM330	60660	2017/02/24	2018/02/23
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2016/09/13	2017/09/12
Preamplifier	Agilent	8449B	3008A01954	2017/02/09	2018/02/08
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2016/11/04	2017/11/03
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2017/03/17	2018/03/16
Spectrum Analyzer	R&S	FSP40	100047	2017/02/13	2018/02/12
Bluetooth Tester	R&S	CBT	101133	2017/03/17	2018/03/16
Attenuator	KEYSIGHT	8491B	MY39250703	2017/03/06	2018/03/05
Rotary Attenuator	Agilent	8495B	MY42146680	2017/03/07	2018/03/06
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2016/09/05	2017/09/04
Series Power Meter	Anritsu	ML2495A	1224005	2017/03/01	2018/02/28
Power Sensor	Anritsu	MA2411B	1207295	2017/03/01	2018/02/28
Cable	HUBER SUHNER	SUCOFLEX 102	28422/2	2017/02/25	2018/02/24
Cable	HUBER SUHNER	SUCOFLEX 102	28418/2	2017/02/25	2018/02/24
Software	Farad	Ez-EMC	ver.ct3a1	N/A	N/A
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	N7607B Signal Studio	v2.0.0.1	N/A	N/A
Software	Keysight	Inservice MonitorUtility	N/A	N/A	N/A



4. Antenna Requirements

4.1 Antenna Construction and Directional Gain

Antenna Type	Dipole Antenna
Antenna Gain	2.4G: ANT 1: 3dBi; ANT 2: 3dBi 5G: ANT 1: 4dBi; ANT 2: 4dBi

For Non-Beamforming

2.4G

For Power directional gain= $G_{ant}= 3 \text{ dBi}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.01 (dBi)

5G

For Power directional gain= $G_{ant}= 4 \text{ dBi}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 7.01 (dBi)

For Beamforming

5G

For Power directional gain= $G_{ant}= 7.01 \text{ dBi}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 7.01 (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

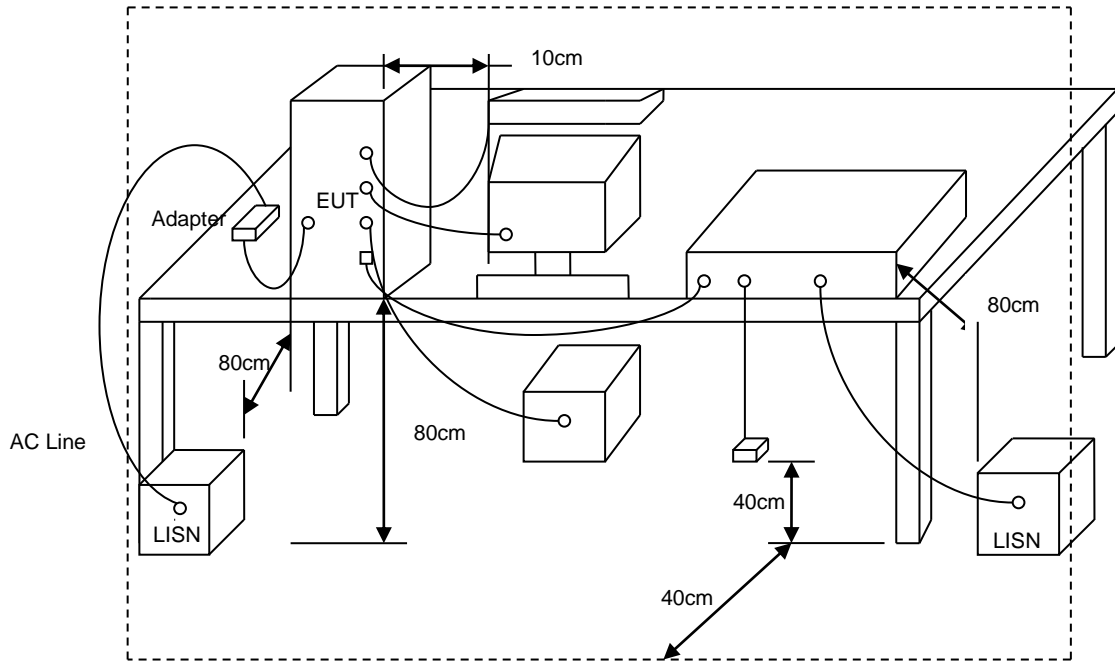
*Decreases with the logarithm of the frequency.

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

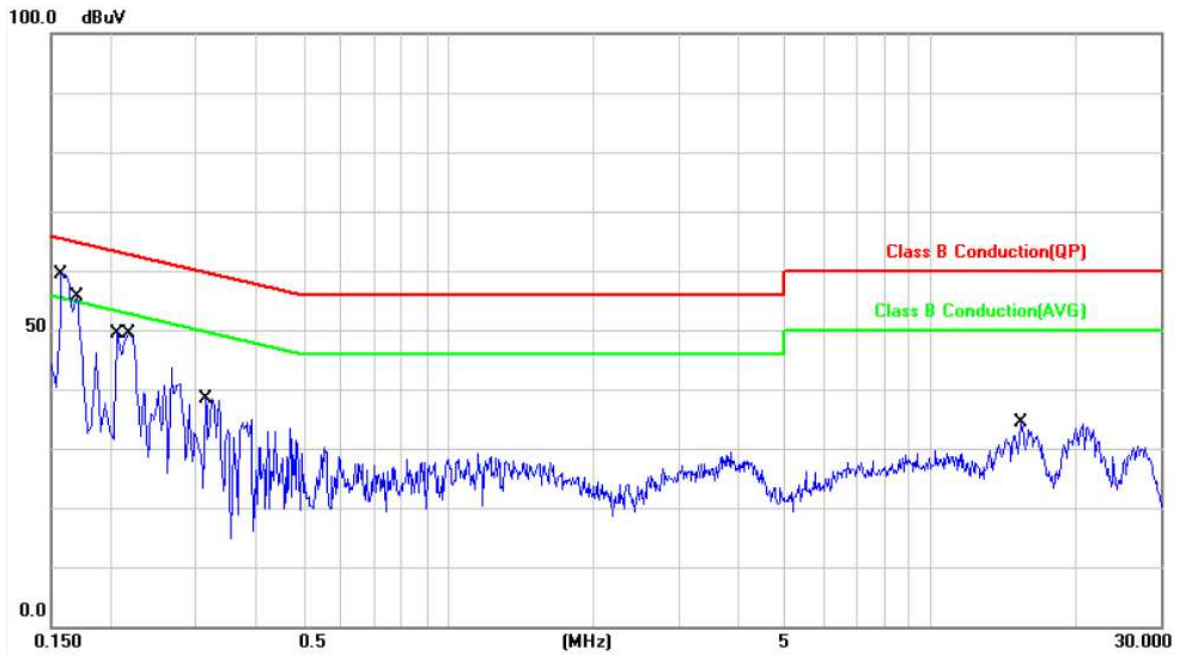




5.4 Test Result and Data

5.4.1 Test Result and Data of Main Source

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 2	Temperature	: 20 °C
Test date	: Dec. 06, 2016	Humidity	: 56 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	9.98	47.50	57.48	65.56	-8.08	QP	P
2	0.1580	9.98	33.53	43.51	55.56	-12.05	AVG	P
3	0.1700	9.98	41.16	51.14	64.96	-13.82	QP	P
4	0.1700	9.98	22.36	32.34	54.96	-22.62	AVG	P
5	0.2060	9.97	36.16	46.13	63.36	-17.23	QP	P
6	0.2060	9.97	16.51	26.48	53.36	-26.88	AVG	P
7	0.2180	9.97	37.47	47.44	62.89	-15.45	QP	P
8	0.2180	9.97	24.59	34.56	52.89	-18.33	AVG	P
9	0.3140	9.96	24.18	34.14	59.86	-25.72	QP	P
10	0.3140	9.96	6.82	16.78	49.86	-33.08	AVG	P
11	15.4420	10.39	20.48	30.87	60.00	-29.13	QP	P
12	15.4420	10.39	17.36	27.75	50.00	-22.25	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2	Temperature	: 20 °C
Test date	: Dec. 06, 2016	Humidity	: 56 %



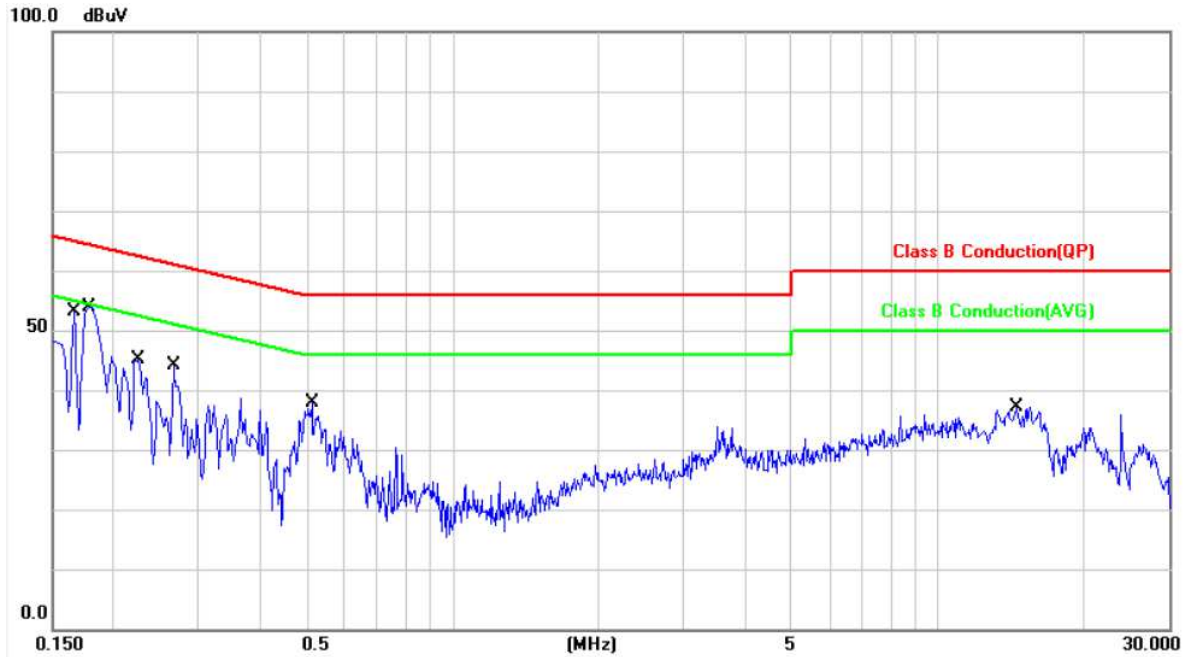
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	9.98	46.94	56.92	65.36	-8.44	QP	P
2	0.1620	9.98	35.78	45.76	55.36	-9.60	AVG	P
3	0.2020	9.98	33.93	43.91	63.52	-19.61	QP	P
4	0.2020	9.98	12.77	22.75	53.52	-30.77	AVG	P
5	0.2180	9.98	37.65	47.63	62.89	-15.26	QP	P
6	0.2180	9.98	26.36	36.34	52.89	-16.55	AVG	P
7	0.2700	9.96	30.59	40.55	61.12	-20.57	QP	P
8	0.2700	9.96	20.70	30.66	51.12	-20.46	AVG	P
9	0.4740	9.94	24.74	34.68	56.44	-21.76	QP	P
10	0.4740	9.94	12.96	22.90	46.44	-23.54	AVG	P
11	15.5220	10.47	21.46	31.93	60.00	-28.07	QP	P
12	15.5220	10.47	18.02	28.49	50.00	-21.51	AVG	P

Note: Level = Reading + Factor
 Margin = Level – Limit
 Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



5.4.2 Test Result and Data of Second Source

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 2	Temperature	: 23 °C
Test date	: Dec. 21, 2016	Humidity	: 48 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.1660	9.98	37.32	47.30	65.15	-17.85	QP	P
2	0.1660	9.98	17.72	27.70	55.15	-27.45	AVG	P
3	0.1780	9.97	39.44	49.41	64.57	-15.16	QP	P
4	0.1780	9.97	24.33	34.30	54.57	-20.27	AVG	P
5	0.2260	9.97	34.73	44.70	62.59	-17.89	QP	P
6	0.2260	9.97	20.66	30.63	52.59	-21.96	AVG	P
7	0.2660	9.97	28.05	38.02	61.24	-23.22	QP	P
8	0.2660	9.97	11.19	21.16	51.24	-30.08	AVG	P
9	0.5140	9.98	26.48	36.46	56.00	-19.54	QP	P
10	0.5140	9.98	18.99	28.97	46.00	-17.03	AVG	P
11	14.5620	10.38	23.53	33.91	60.00	-26.09	QP	P
12	14.5620	10.38	20.13	30.51	50.00	-19.49	AVG	P

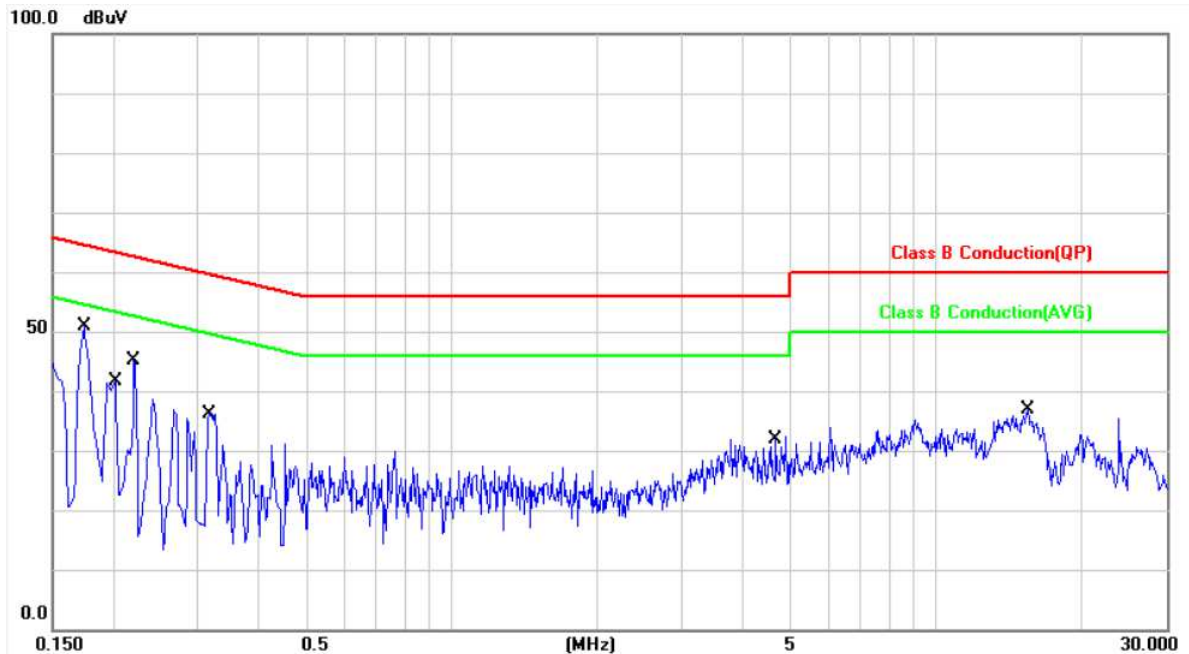
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2	Temperature	: 23 °C
Test date	: Dec. 21, 2016	Humidity	: 48 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1740	9.98	38.54	48.52	64.76	-16.24	QP	P
2	0.1740	9.98	19.59	29.57	54.76	-25.19	AVG	P
3	0.2020	9.98	30.44	40.42	63.52	-23.10	QP	P
4	0.2020	9.98	11.83	21.81	53.52	-31.71	AVG	P
5	0.2220	9.97	33.75	43.72	62.74	-19.02	QP	P
6	0.2220	9.97	16.02	25.99	52.74	-26.75	AVG	P
7	0.3180	9.95	23.91	33.86	59.76	-25.90	QP	P
8	0.3180	9.95	9.26	19.21	49.76	-30.55	AVG	P
9	4.6820	10.17	14.02	24.19	56.00	-31.81	QP	P
10	4.6820	10.17	7.13	17.30	46.00	-28.70	AVG	P
11	15.4820	10.47	24.15	34.62	60.00	-25.38	QP	P
12	15.4820	10.47	21.01	31.48	50.00	-18.52	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



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

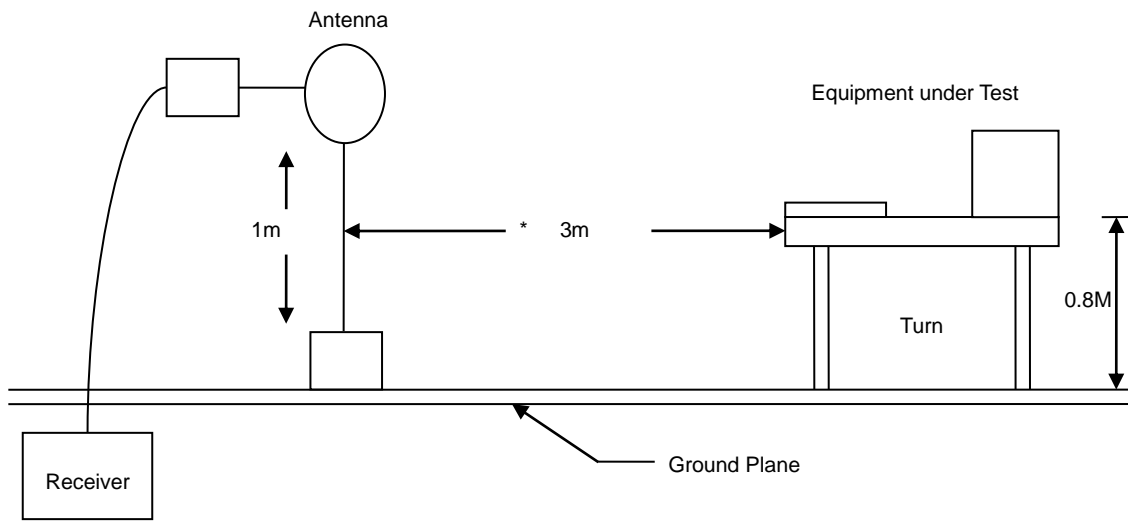
6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

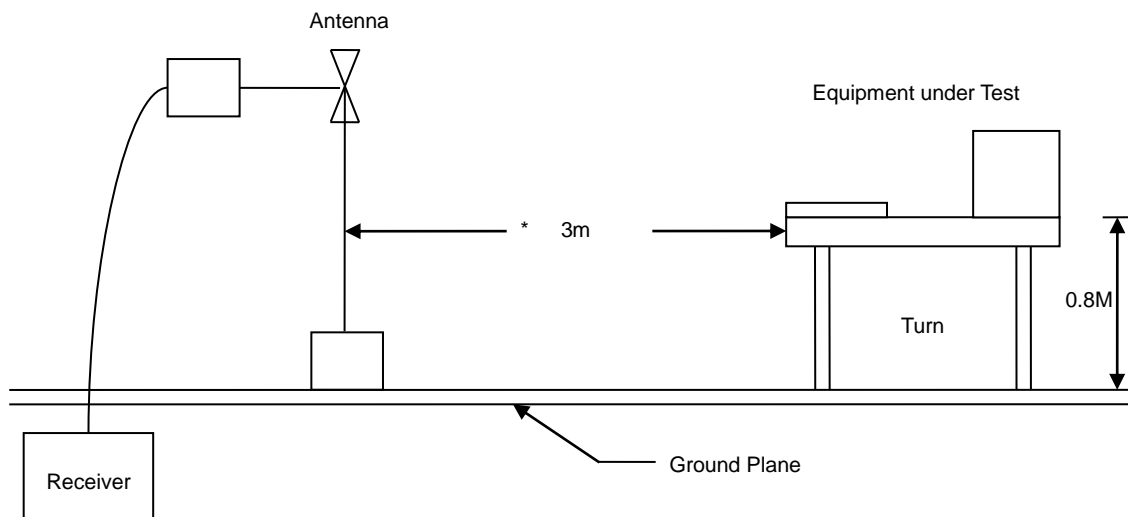


6.3 Typical Test Setup

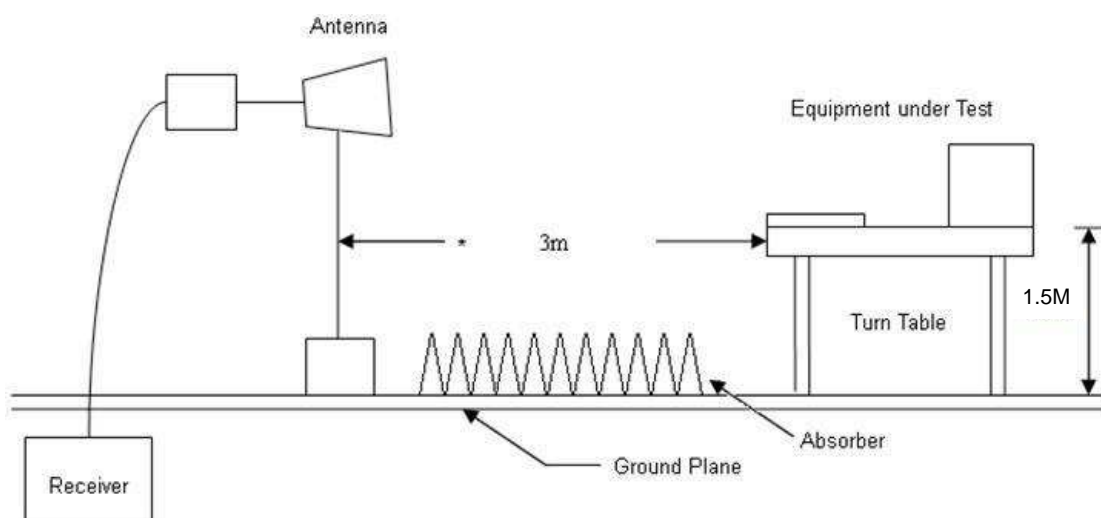
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





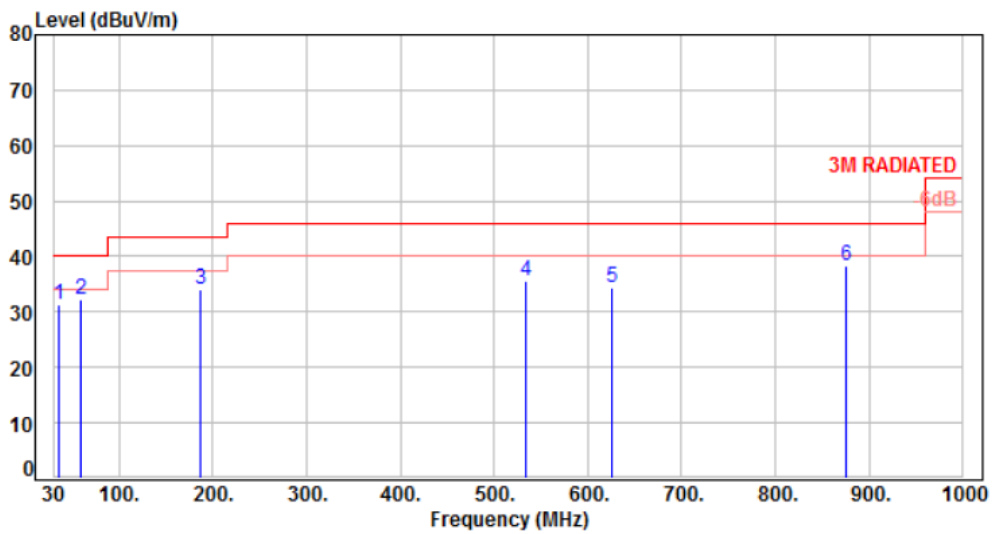
6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

6.5.1 Test Result and Data of Main Source

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	35.82	-10.47	41.89	31.42	40.00	-8.58	QP	151	182	P
2	59.10	-10.39	42.68	32.29	40.00	-7.71	QP	168	194	P
3	187.14	-11.96	46.12	34.16	43.50	-9.34	Peak	100	0	P
4	534.40	-3.57	39.04	35.47	46.00	-10.53	Peak	100	0	P
5	625.58	-1.70	35.98	34.28	46.00	-11.72	Peak	100	0	P
6	875.84	1.87	36.41	38.28	46.00	-7.72	Peak	100	0	P

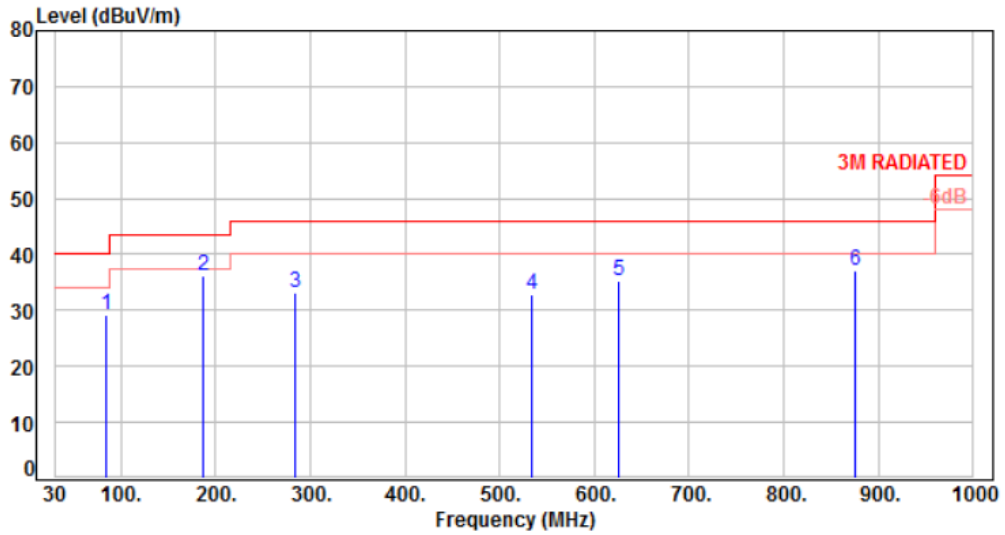
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %

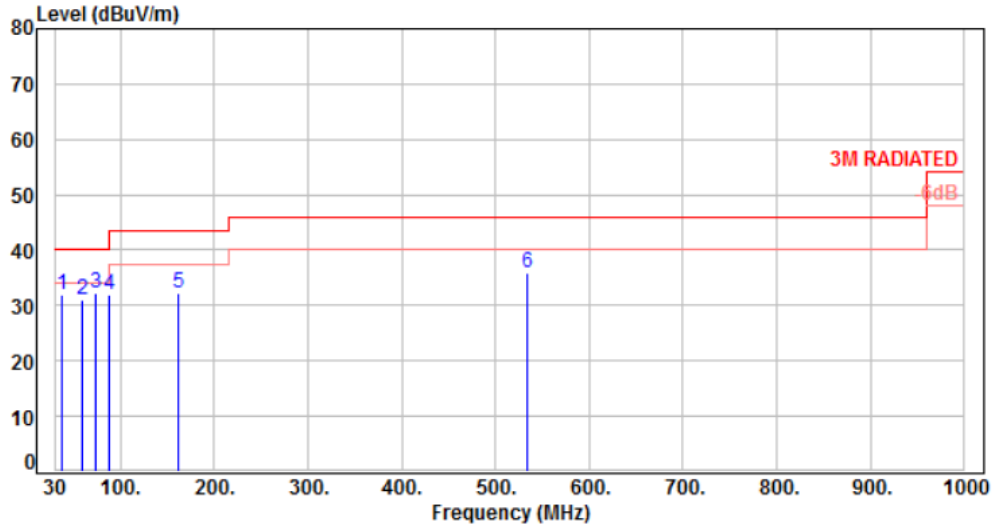


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	84.32	-15.47	44.76	29.29	40.00	-10.71	Peak	100	0	P
2	187.14	-11.96	48.30	36.34	43.50	-7.16	QP	198	219	P
3	284.14	-9.51	42.69	33.18	46.00	-12.82	Peak	100	0	P
4	534.40	-3.57	36.37	32.80	46.00	-13.20	Peak	100	0	P
5	625.58	-1.70	37.04	35.34	46.00	-10.66	Peak	100	0	P
6	875.84	1.87	35.10	36.97	46.00	-9.03	Peak	100	0	P

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



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 60 %

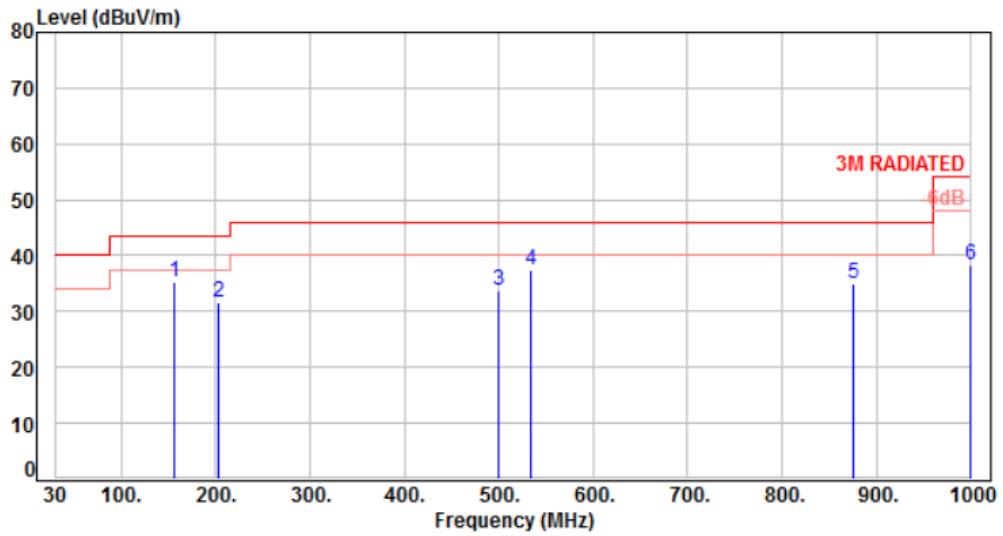


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	36.79	-10.40	42.40	32.00	40.00	-8.00	QP	100	288	P
2	58.69	-10.37	41.51	31.14	40.00	-8.86	QP	105	304	P
3	73.14	-13.22	45.59	32.37	40.00	-7.63	QP	100	109	P
4	87.72	-15.92	47.80	31.88	40.00	-8.12	QP	105	100	P
5	161.92	-9.96	42.15	32.19	43.50	-11.31	Peak	400	0	P
6	533.43	-3.59	39.51	35.92	46.00	-10.08	Peak	400	0	P

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



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 60 %



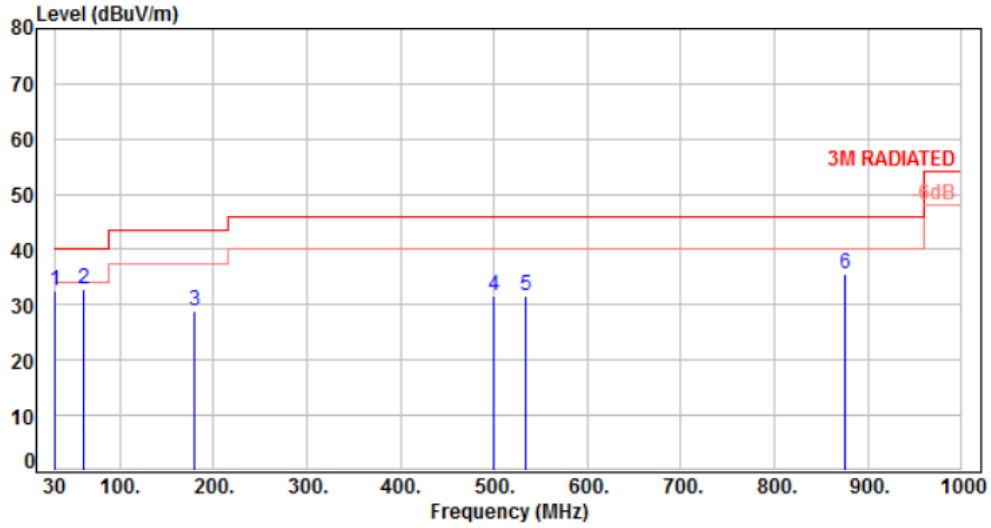
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	157.07	-9.93	45.27	35.34	43.50	-8.16	Peak	100	0	P
2	202.66	-12.58	44.24	31.66	43.50	-11.84	Peak	100	0	P
3	500.45	-4.17	37.84	33.67	46.00	-12.33	Peak	100	0	P
4	533.43	-3.59	41.02	37.43	46.00	-8.57	Peak	100	0	P
5	875.84	1.87	33.26	35.13	46.00	-10.87	Peak	100	0	P
6	1000.00	3.44	34.98	38.42	54.00	-15.58	Peak	100	0	P

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



6.5.2 Test Result and Data of Second Source

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %

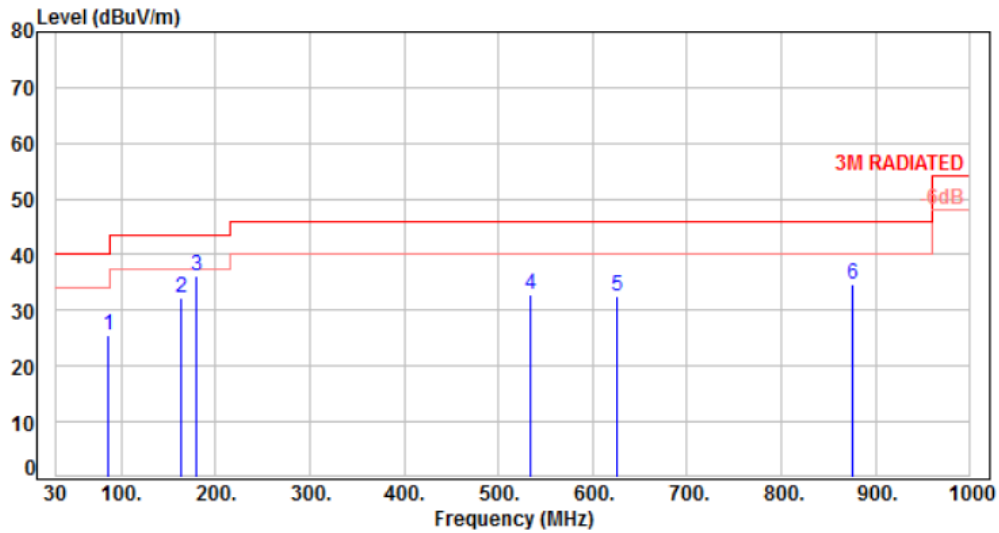


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.73	43.41	32.68	40.00	-7.32	Peak	100	0	P
2	61.04	-10.67	43.58	32.91	40.00	-7.09	Peak	100	0	P
3	179.38	-11.30	40.13	28.83	43.50	-14.67	Peak	100	0	P
4	499.48	-4.19	35.96	31.77	46.00	-14.23	Peak	100	0	P
5	534.40	-3.57	35.27	31.70	46.00	-14.30	Peak	100	0	P
6	875.84	1.87	33.73	35.60	46.00	-10.40	Peak	100	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	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %

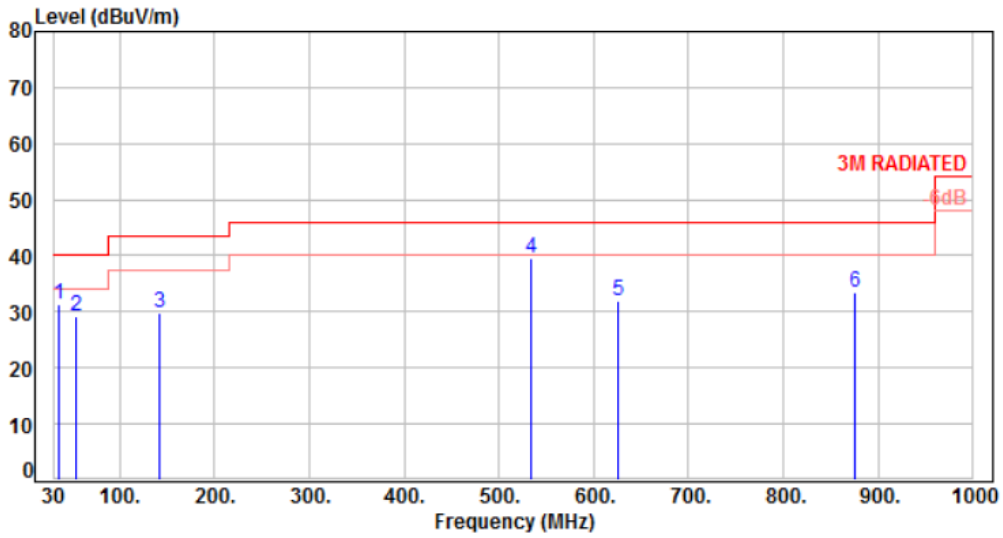


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	86.26	-15.72	41.38	25.66	40.00	-14.34	Peak	100	0	P
2	163.86	-10.03	42.16	32.13	43.50	-11.37	Peak	100	0	P
3	179.38	-11.30	47.56	36.26	43.50	-7.24	QP	100	225	P
4	534.40	-3.57	36.47	32.90	46.00	-13.10	Peak	100	0	P
5	625.58	-1.70	34.23	32.53	46.00	-13.47	Peak	100	0	P
6	875.84	1.87	32.91	34.78	46.00	-11.22	Peak	100	0	P

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



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %

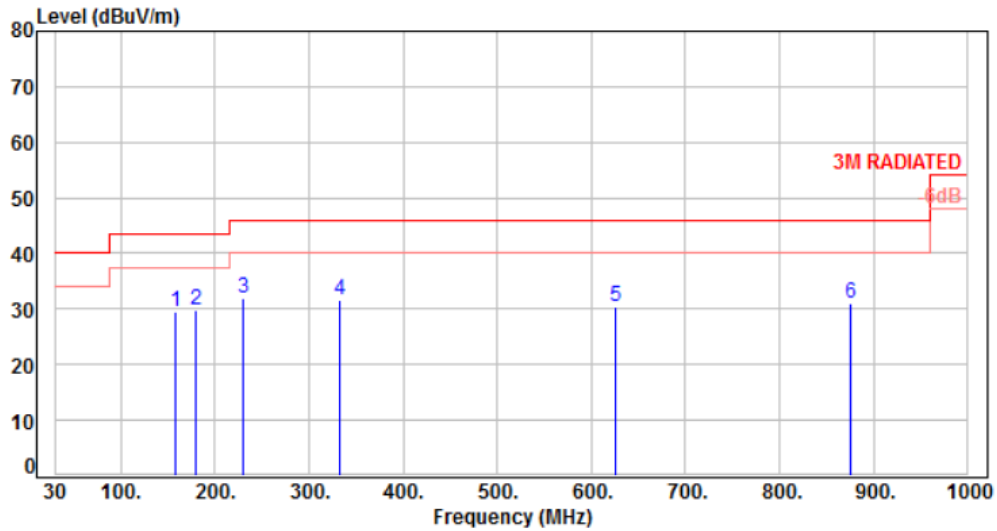


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	35.82	-10.47	41.86	31.39	40.00	-8.61	QP	100	212	P
2	53.28	-9.96	39.22	29.26	40.00	-10.74	Peak	100	0	P
3	142.52	-10.27	40.06	29.79	43.50	-13.71	Peak	100	0	P
4	534.40	-3.57	43.14	39.57	46.00	-6.43	Peak	100	0	P
5	625.58	-1.70	33.57	31.87	46.00	-14.13	Peak	100	0	P
6	875.84	1.87	31.53	33.40	46.00	-12.60	Peak	100	0	P

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



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Mar. 20, 2017	Humidity	: 61 %



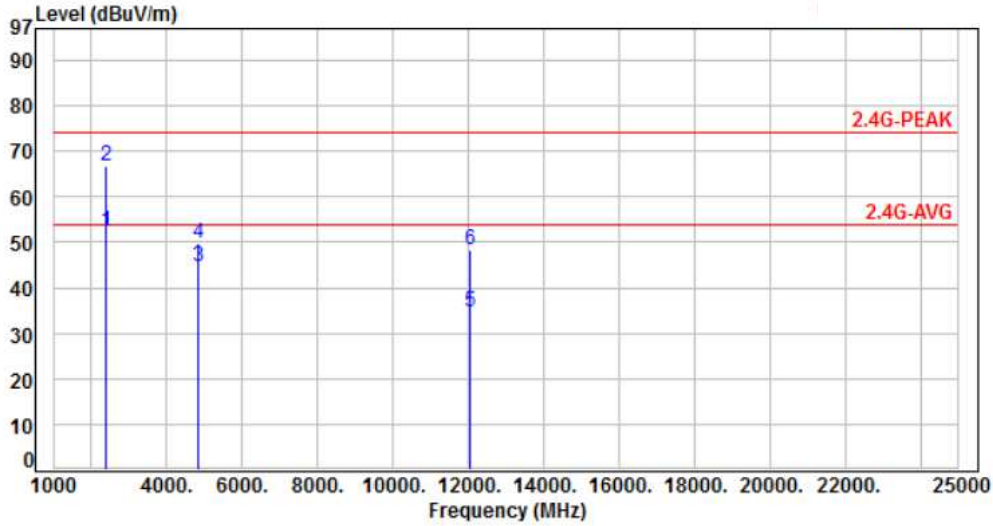
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	158.04	-9.91	39.40	29.49	43.50	-14.01	Peak	100	0	P
2	179.38	-11.30	41.02	29.72	43.50	-13.78	Peak	100	0	P
3	229.82	-12.06	43.88	31.82	46.00	-14.18	Peak	100	0	P
4	332.64	-8.21	39.92	31.71	46.00	-14.29	Peak	100	0	P
5	625.58	-1.70	32.26	30.56	46.00	-15.44	Peak	100	0	P
6	875.84	1.87	29.30	31.17	46.00	-14.83	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

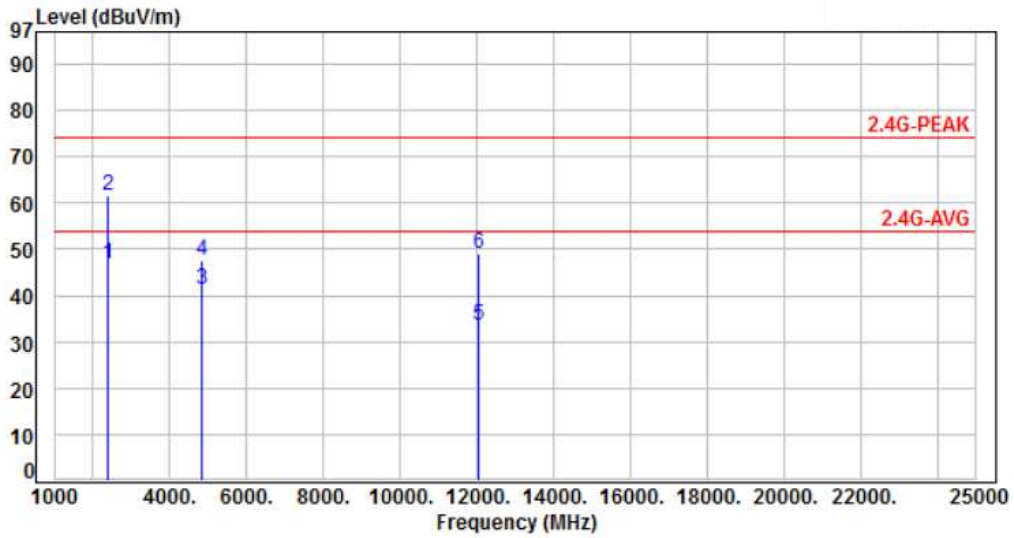


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	68.29	52.54	54.00	-1.46	Average	127	179	P
2	2390.00	-15.75	82.36	66.61	74.00	-7.39	Peak	127	179	P
3	4824.00	-7.58	52.13	44.55	54.00	-9.45	Average	100	72	P
4	4824.00	-7.58	57.33	49.75	74.00	-24.25	Peak	100	72	P
5	12060.00	2.28	32.47	34.75	54.00	-19.25	Average	106	252	P
6	12060.00	2.28	45.86	48.14	74.00	-25.86	Peak	106	252	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

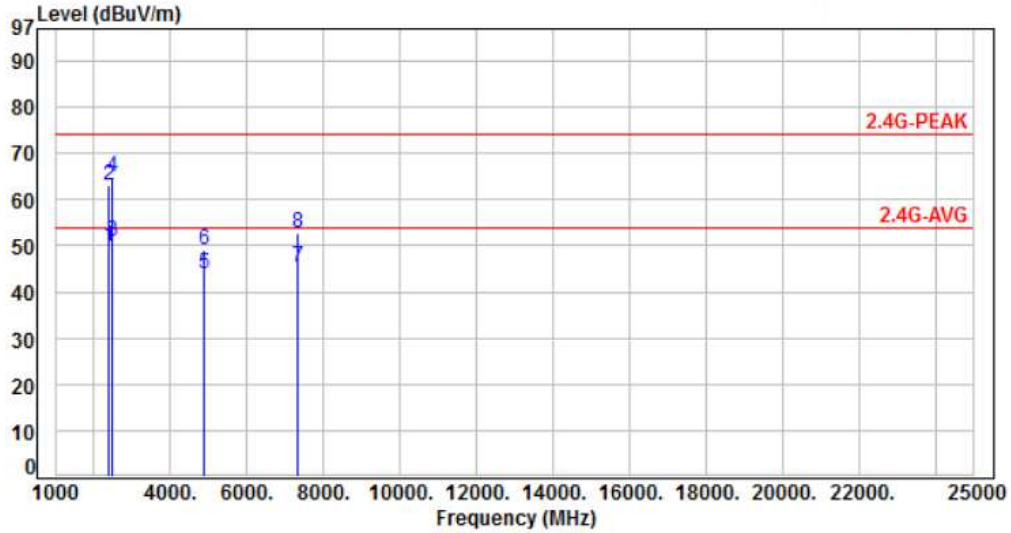


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	62.68	46.93	54.00	-7.07	Average	102	144	P
2	2390.00	-15.75	77.26	61.51	74.00	-12.49	Peak	102	144	P
3	4824.00	-7.58	49.07	41.49	54.00	-12.51	Average	336	154	P
4	4824.00	-7.58	55.23	47.65	74.00	-26.35	Peak	336	154	P
5	12060.00	2.28	31.19	33.47	54.00	-20.53	Average	162	198	P
6	12060.00	2.28	46.85	49.13	74.00	-24.87	Peak	162	198	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

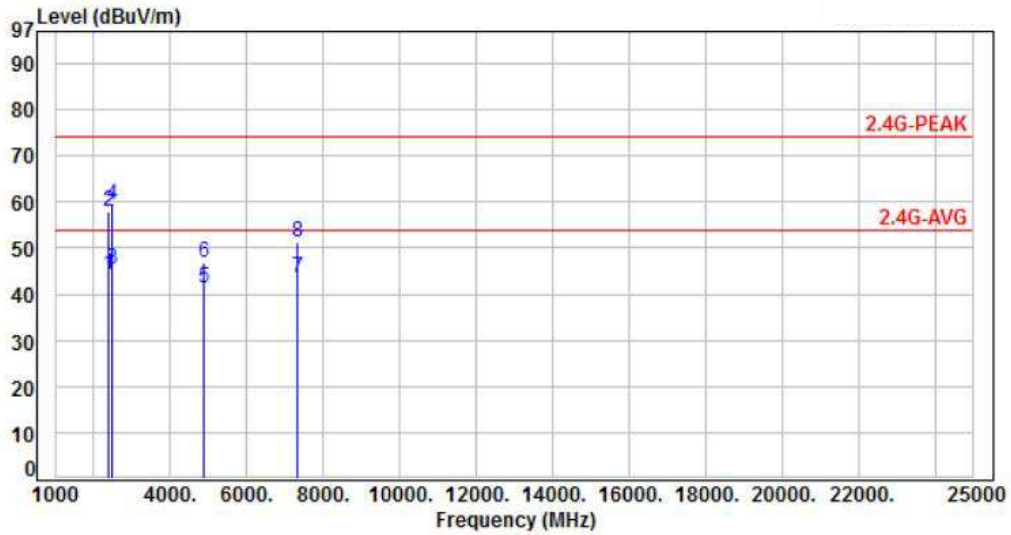


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	65.59	49.84	54.00	-4.16	Average	148	195	P
2	2390.00	-15.75	78.89	63.14	74.00	-10.86	Peak	148	195	P
3	2483.50	-15.48	66.29	50.81	54.00	-3.19	Average	148	195	P
4	2483.50	-15.48	80.37	64.89	74.00	-9.11	Peak	148	195	P
5	4874.00	-7.39	51.15	43.76	54.00	-10.24	Average	185	315	P
6	4874.00	-7.39	56.44	49.05	74.00	-24.95	Peak	185	315	P
7	7311.00	-3.50	49.01	45.51	54.00	-8.49	Average	100	178	P
8	7311.00	-3.50	56.41	52.91	74.00	-21.09	Peak	100	178	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

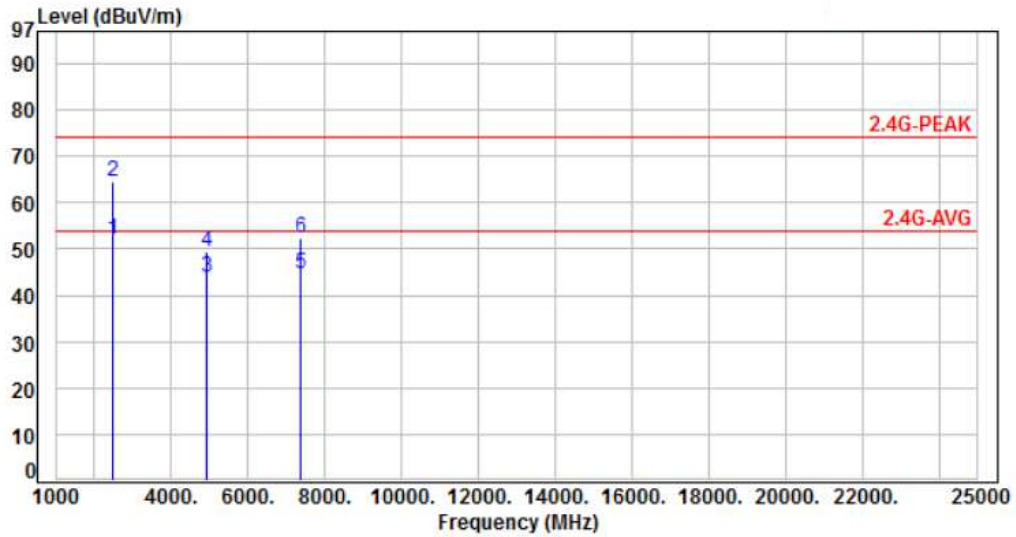


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	60.13	44.38	54.00	-9.62	Average	169	214	P
2	2390.00	-15.75	73.52	57.77	74.00	-16.23	Peak	169	214	P
3	2483.50	-15.48	60.92	45.44	54.00	-8.56	Average	169	214	P
4	2483.50	-15.48	75.03	59.55	74.00	-14.45	Peak	169	214	P
5	4874.00	-7.39	48.76	41.37	54.00	-12.63	Average	173	124	P
6	4874.00	-7.39	54.13	46.74	74.00	-27.26	Peak	173	124	P
7	7311.00	-3.50	46.91	43.41	54.00	-10.59	Average	100	235	P
8	7311.00	-3.50	54.86	51.36	74.00	-22.64	Peak	100	178	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

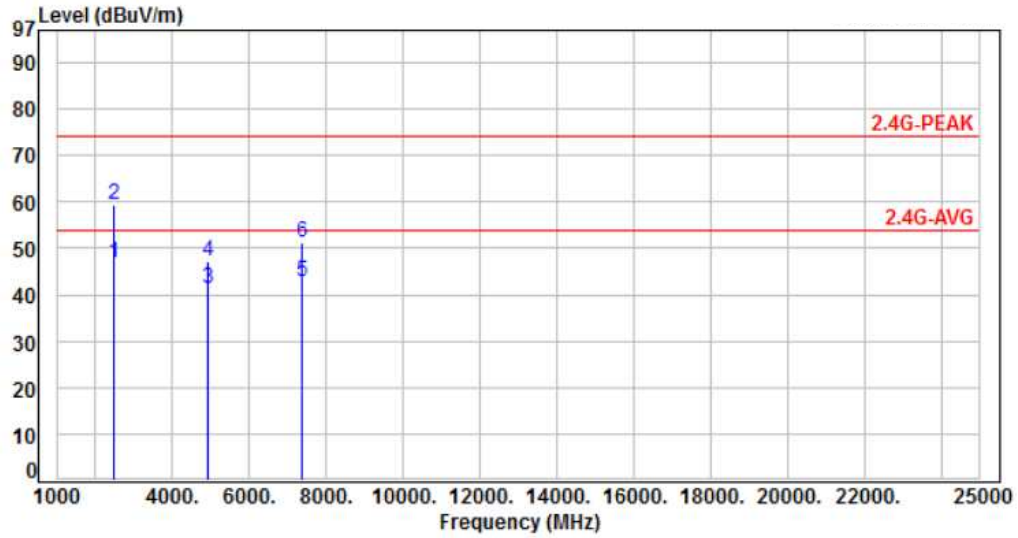


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	67.64	52.16	54.00	-1.84	Average	163	202	P
2	2483.50	-15.48	80.10	64.62	74.00	-9.38	Peak	163	202	P
3	4924.00	-7.19	50.92	43.73	54.00	-10.27	Average	106	346	P
4	4924.00	-7.19	56.47	49.28	74.00	-24.72	Peak	106	346	P
5	7386.00	-3.39	48.17	44.78	54.00	-9.22	Average	100	63	P
6	7386.00	-3.39	55.94	52.55	74.00	-21.45	Peak	100	63	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

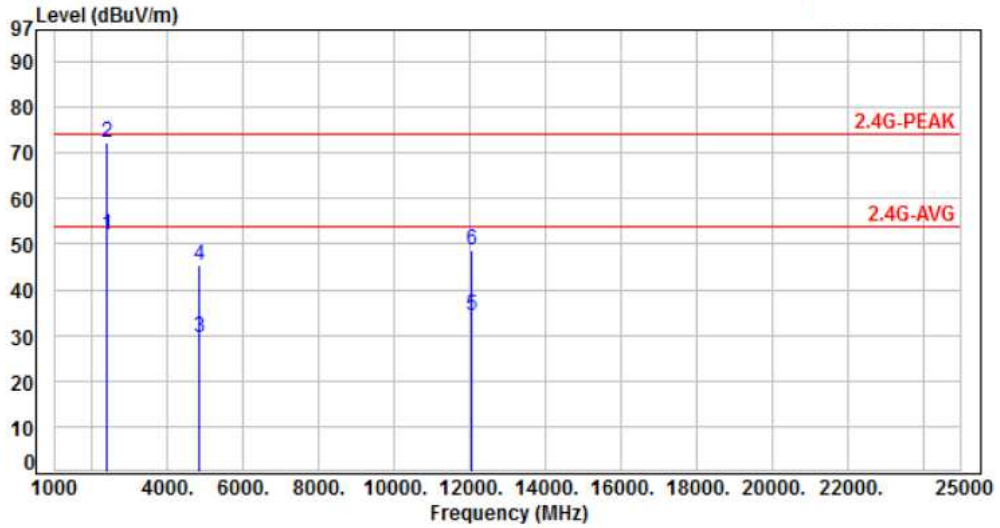


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	62.37	46.89	54.00	-7.11	Average	155	312	P
2	2483.50	-15.48	74.83	59.35	74.00	-14.65	Peak	155	312	P
3	4924.00	-7.19	48.61	41.42	54.00	-12.58	Average	122	248	P
4	4924.00	-7.19	54.29	47.10	74.00	-26.90	Peak	122	248	P
5	7386.00	-3.39	46.12	42.73	54.00	-11.27	Average	102	133	P
6	7386.00	-3.39	54.48	51.09	74.00	-22.91	Peak	102	133	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

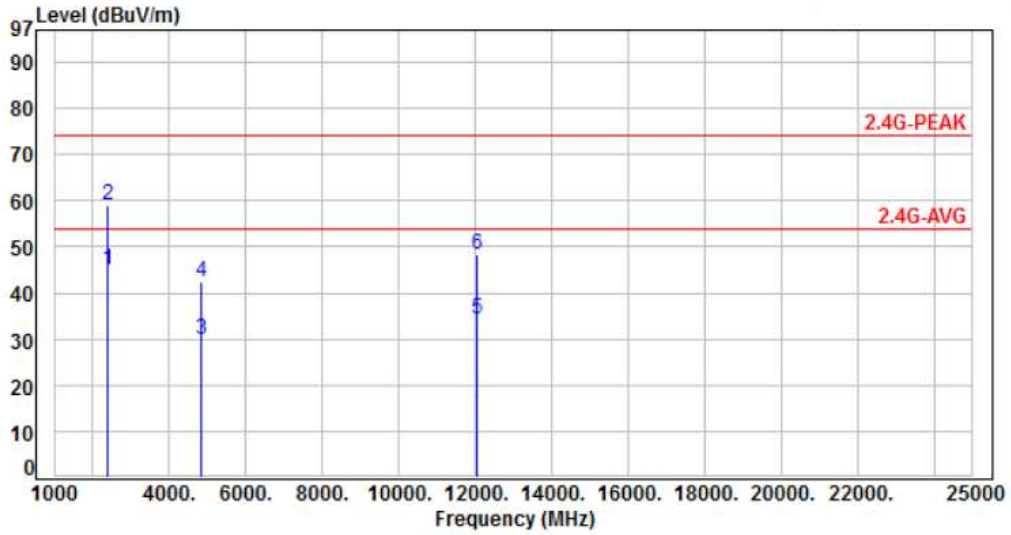


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	67.87	52.12	54.00	-1.88	Average	115	255	P
2	2390.00	-15.75	87.95	72.20	74.00	-1.80	Peak	115	255	P
3	4824.00	-7.58	37.26	29.68	54.00	-24.32	Average	108	349	P
4	4824.00	-7.58	53.08	45.50	74.00	-28.50	Peak	108	349	P
5	12060.00	2.28	32.17	34.45	54.00	-19.55	Average	102	216	P
6	12060.00	2.28	46.46	48.74	74.00	-25.26	Peak	102	216	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

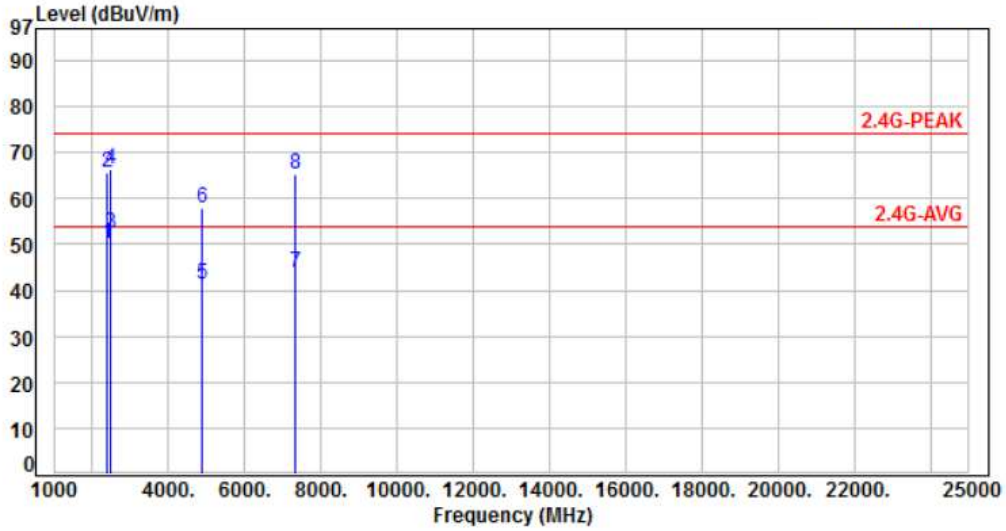


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	60.93	45.18	54.00	-8.82	Average	135	225	P
2	2390.00	-15.75	74.66	58.91	74.00	-15.09	Peak	135	225	P
3	4824.00	-7.58	37.28	29.70	54.00	-24.30	Average	400	224	P
4	4824.00	-7.58	50.09	42.51	74.00	-31.49	Peak	400	224	P
5	12060.00	2.28	32.14	34.42	54.00	-19.58	Average	245	316	P
6	12060.00	2.28	46.04	48.32	74.00	-25.68	Peak	245	316	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

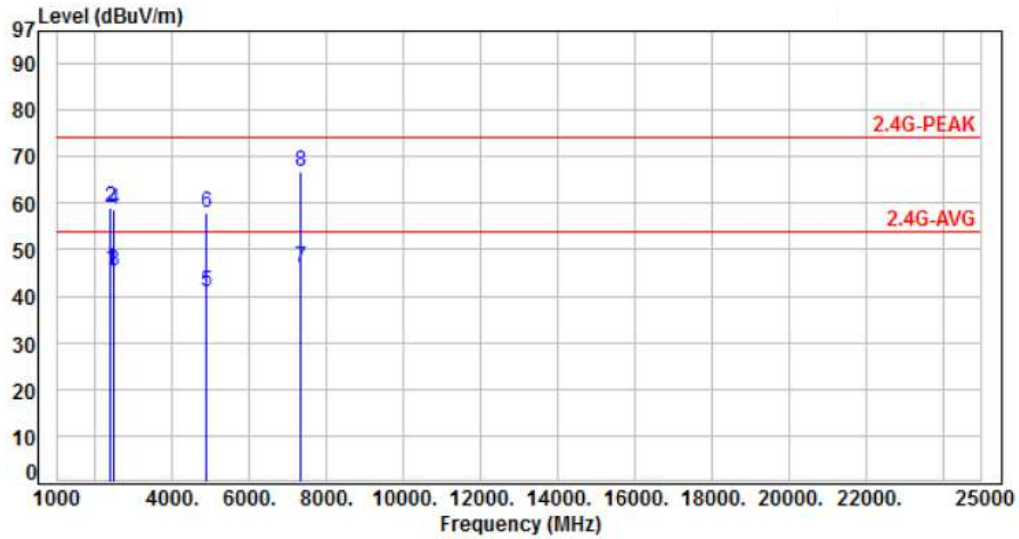


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	66.01	50.26	54.00	-3.74	Average	164	165	P
2	2390.00	-15.75	81.45	65.70	74.00	-8.30	Peak	164	165	P
3	2483.50	-15.48	67.78	52.30	54.00	-1.70	Average	164	165	P
4	2483.50	-15.48	82.04	66.56	74.00	-7.44	Peak	164	165	P
5	4874.00	-7.39	48.73	41.34	54.00	-12.66	Average	100	67	P
6	4874.00	-7.39	65.31	57.92	74.00	-16.08	Peak	100	67	P
7	7311.00	-3.50	47.39	43.89	54.00	-10.11	Average	112	178	P
8	7311.00	-3.50	68.92	65.42	74.00	-8.58	Peak	112	178	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

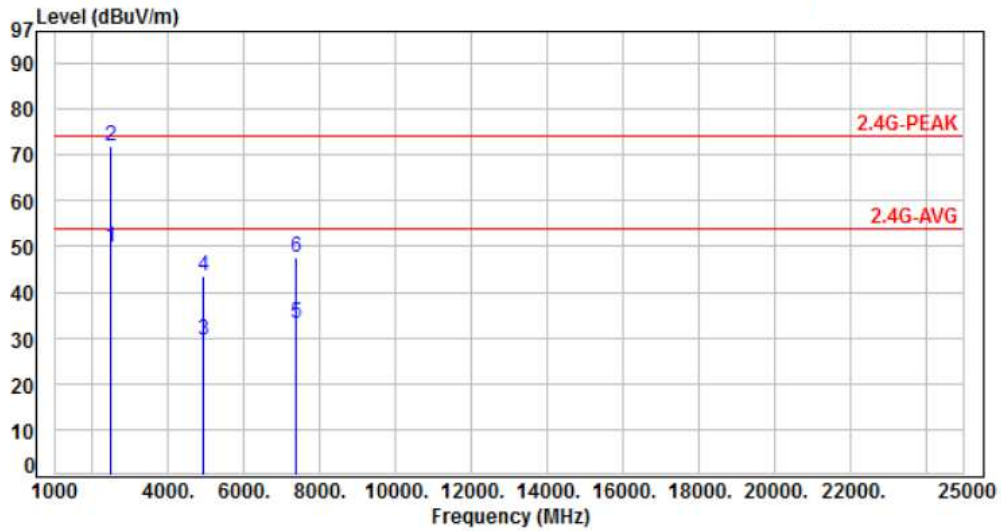


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	61.59	45.84	54.00	-8.16	Average	196	143	P
2	2390.00	-15.75	74.67	58.92	74.00	-15.08	Peak	196	143	P
3	2483.50	-15.48	60.71	45.23	54.00	-8.77	Average	196	143	P
4	2483.50	-15.48	74.03	58.55	74.00	-15.45	Peak	196	143	P
5	4874.00	-7.39	48.23	40.84	54.00	-13.16	Average	115	233	P
6	4874.00	-7.39	65.15	57.76	74.00	-16.24	Peak	115	233	P
7	7311.00	-3.50	49.74	46.24	54.00	-7.76	Average	100	231	P
8	7311.00	-3.50	70.38	66.88	74.00	-7.12	Peak	100	231	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

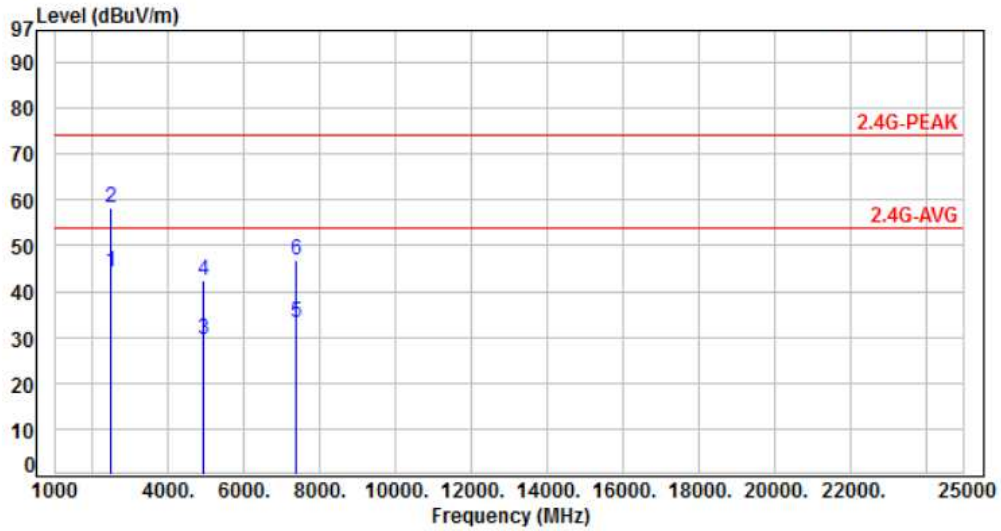


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	65.35	49.87	54.00	-4.13	Average	100	172	P
2	2483.50	-15.48	87.55	72.07	74.00	-1.93	Peak	100	172	P
3	4924.00	-7.19	36.83	29.64	54.00	-24.36	Average	163	148	P
4	4924.00	-7.19	50.66	43.47	74.00	-30.53	Peak	163	148	P
5	7386.00	-3.39	36.55	33.16	54.00	-20.84	Average	145	262	P
6	7386.00	-3.39	50.88	47.49	74.00	-26.51	Peak	145	262	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

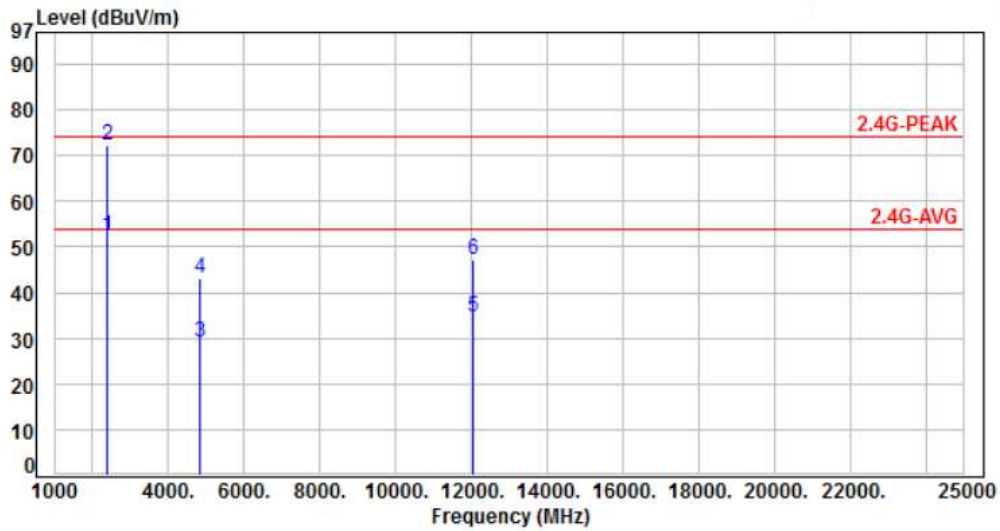


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	59.86	44.38	54.00	-9.62	Average	125	197	P
2	2483.50	-15.48	73.65	58.17	74.00	-15.83	Peak	125	197	P
3	4924.00	-7.19	36.74	29.55	54.00	-24.45	Average	100	241	P
4	4924.00	-7.19	49.73	42.54	74.00	-31.46	Peak	100	241	P
5	7386.00	-3.39	36.49	33.10	54.00	-20.90	Average	137	162	P
6	7386.00	-3.39	50.34	46.95	74.00	-27.05	Peak	137	162	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

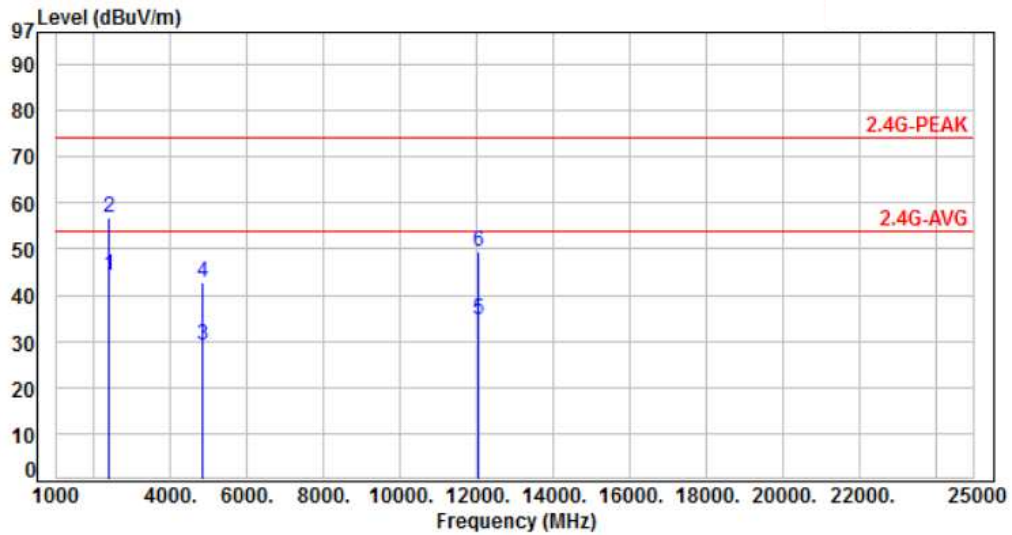


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	68.14	52.39	54.00	-1.61	Average	100	134	P
2	2390.00	-15.75	88.07	72.32	74.00	-1.68	Peak	100	134	P
3	4824.00	-7.58	36.70	29.12	54.00	-24.88	Average	100	350	P
4	4824.00	-7.58	50.74	43.16	74.00	-30.84	Peak	100	350	P
5	12060.00	2.28	32.34	34.62	54.00	-19.38	Average	100	210	P
6	12060.00	2.28	44.75	47.03	74.00	-26.97	Peak	100	210	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

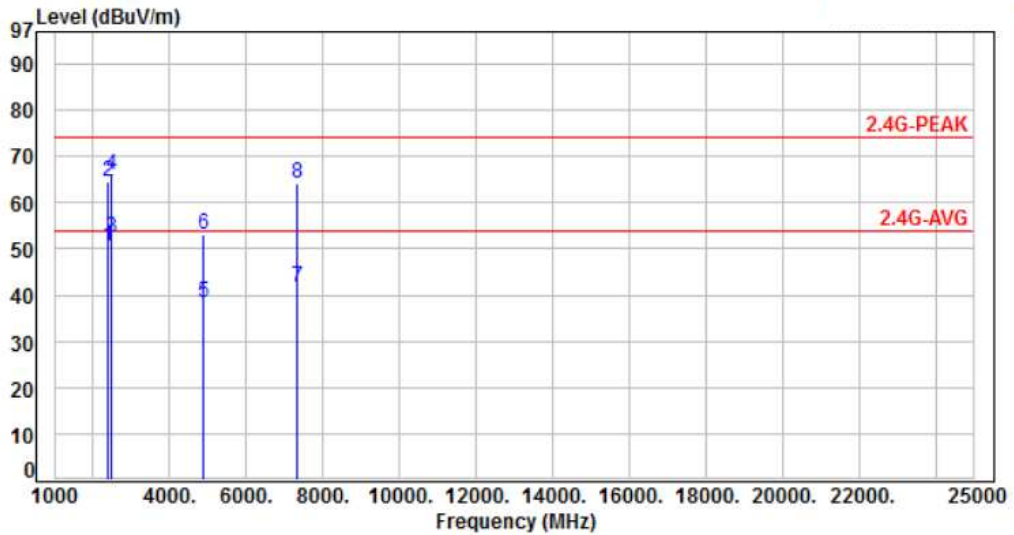


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	59.99	44.24	54.00	-9.76	Average	100	217	P
2	2390.00	-15.75	72.60	56.85	74.00	-17.15	Peak	100	217	P
3	4824.00	-7.58	36.64	29.06	54.00	-24.94	Average	400	220	P
4	4824.00	-7.58	50.19	42.61	74.00	-31.39	Peak	400	220	P
5	12060.00	2.28	32.30	34.58	54.00	-19.42	Average	250	300	P
6	12060.00	2.28	47.18	49.46	74.00	-24.54	Peak	250	300	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

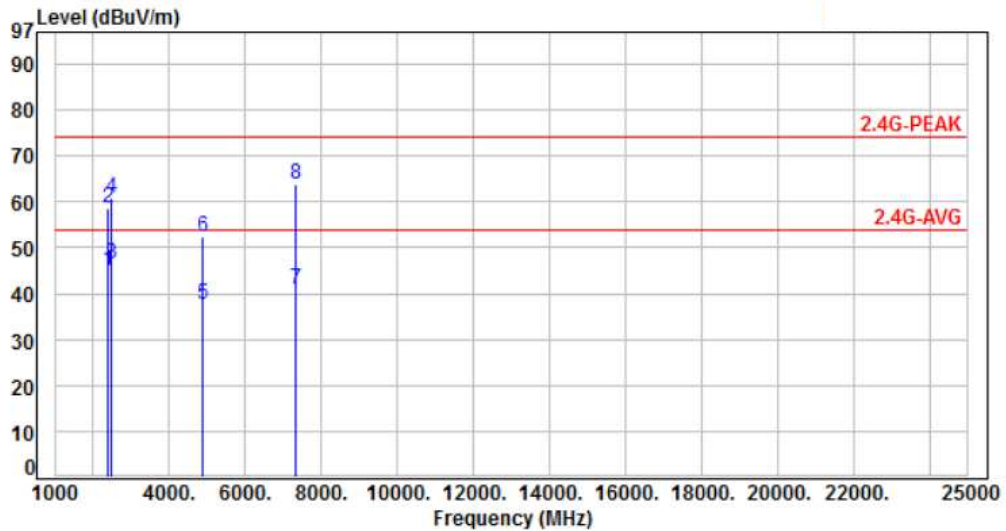


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	66.19	50.44	54.00	-3.56	Average	119	155	P
2	2390.00	-15.75	80.38	64.63	74.00	-9.37	Peak	119	155	P
3	2483.50	-15.48	67.96	52.48	54.00	-1.52	Average	119	155	P
4	2483.50	-15.48	81.46	65.98	74.00	-8.02	Peak	119	155	P
5	4874.00	-7.39	45.63	38.24	54.00	-15.76	Average	102	71	P
6	4874.00	-7.39	60.33	52.94	74.00	-21.06	Peak	102	71	P
7	7311.00	-3.50	45.34	41.84	54.00	-12.16	Average	100	278	P
8	7311.00	-3.50	67.51	64.01	74.00	-9.99	Peak	100	278	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

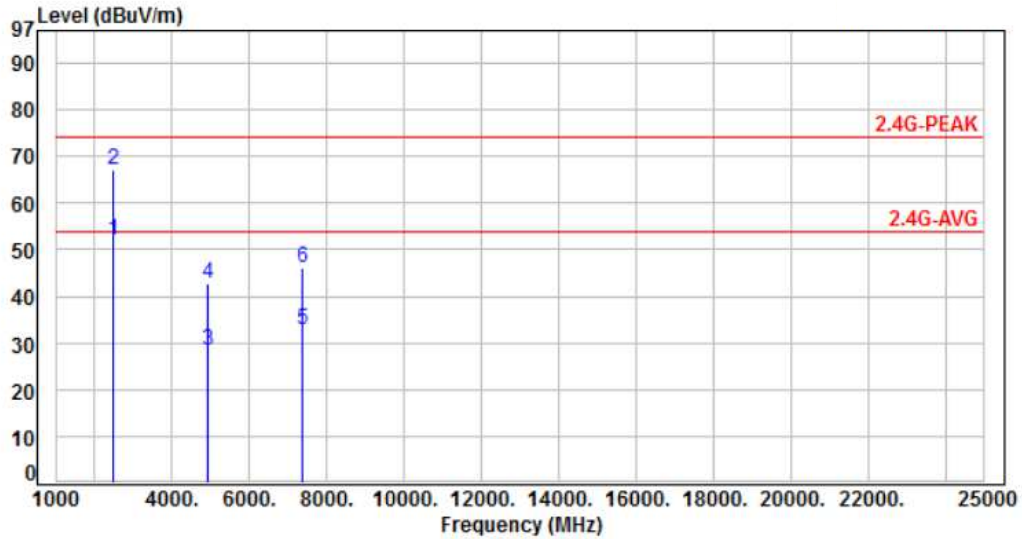


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	60.89	45.14	54.00	-8.86	Average	161	220	P
2	2390.00	-15.75	74.26	58.51	74.00	-15.49	Peak	161	220	P
3	2483.50	-15.48	61.82	46.34	54.00	-7.66	Average	161	220	P
4	2483.50	-15.48	76.21	60.73	74.00	-13.27	Peak	161	220	P
5	4874.00	-7.39	44.94	37.55	54.00	-16.45	Average	112	246	P
6	4874.00	-7.39	59.76	52.37	74.00	-21.63	Peak	112	246	P
7	7311.00	-3.50	44.47	40.97	54.00	-13.03	Average	100	237	P
8	7311.00	-3.50	67.22	63.72	74.00	-10.28	Peak	100	237	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

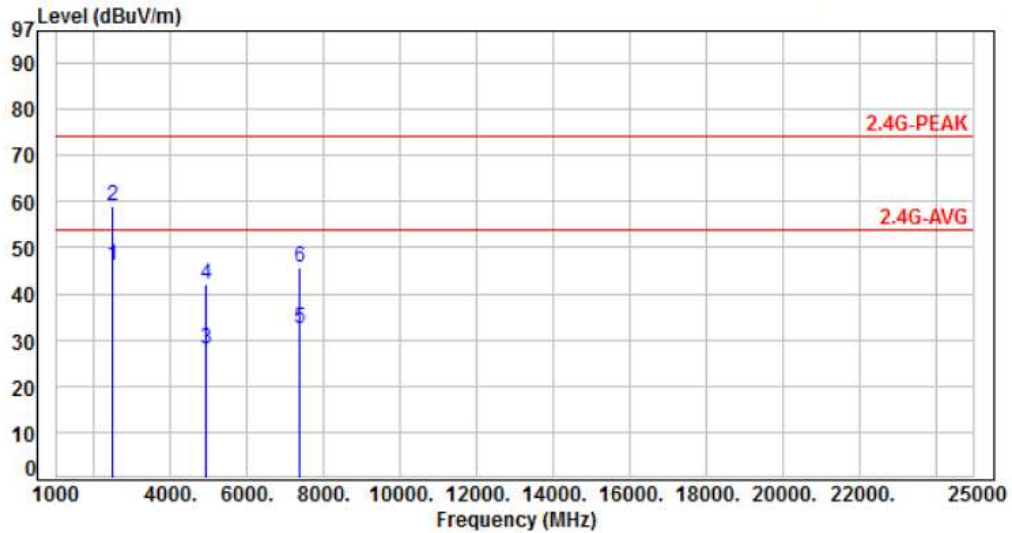


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	67.56	52.08	54.00	-1.92	Average	103	208	P
2	2483.50	-15.48	82.74	67.26	74.00	-6.74	Peak	103	208	P
3	4924.00	-7.19	35.75	28.56	54.00	-25.44	Average	254	121	P
4	4924.00	-7.19	49.89	42.70	74.00	-31.30	Peak	254	121	P
5	7386.00	-3.39	36.27	32.88	54.00	-21.12	Average	131	148	P
6	7386.00	-3.39	49.62	46.23	74.00	-27.77	Peak	131	148	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

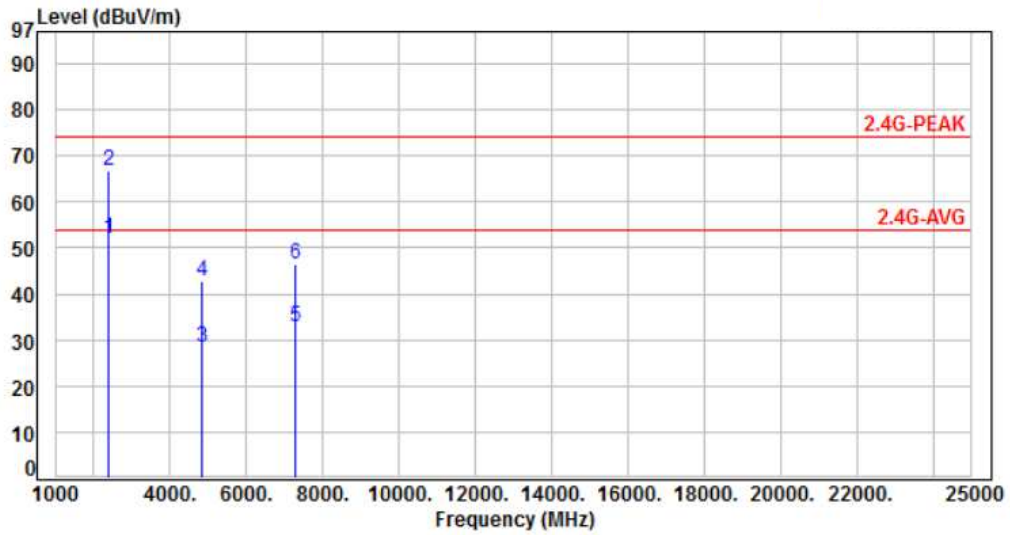


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	61.57	46.09	54.00	-7.91	Average	234	221	P
2	2483.50	-15.48	74.41	58.93	74.00	-15.07	Peak	234	221	P
3	4924.00	-7.19	35.21	28.02	54.00	-25.98	Average	102	198	P
4	4924.00	-7.19	49.15	41.96	74.00	-32.04	Peak	102	198	P
5	7386.00	-3.39	35.69	32.30	54.00	-21.70	Average	100	248	P
6	7386.00	-3.39	49.13	45.74	74.00	-28.26	Peak	100	248	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

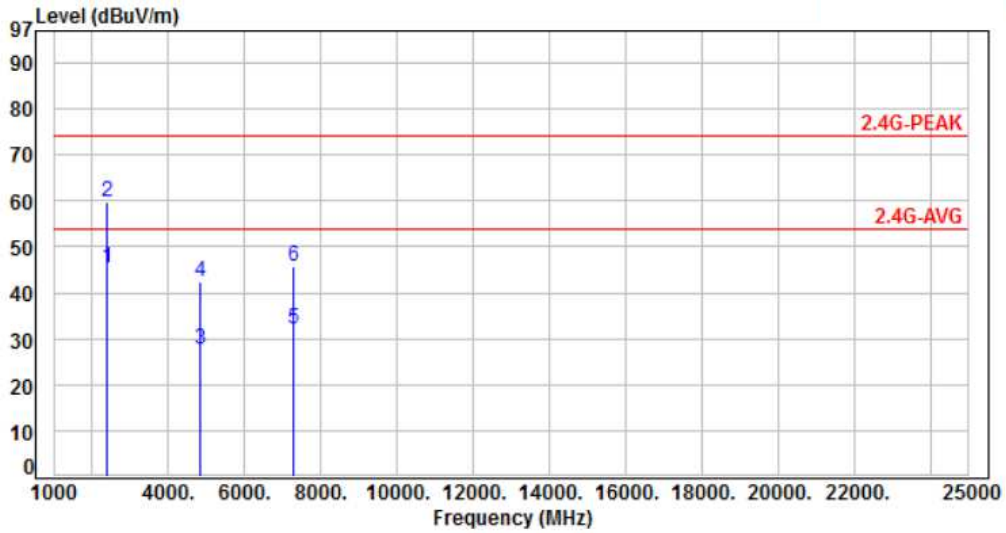


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	67.86	52.11	54.00	-1.89	Average	106	203	P
2	2390.00	-15.75	82.35	66.60	74.00	-7.40	Peak	106	203	P
3	4844.00	-7.50	36.05	28.55	54.00	-25.45	Average	142	156	P
4	4844.00	-7.50	50.34	42.84	74.00	-31.16	Peak	142	156	P
5	7266.00	-3.57	36.47	32.90	54.00	-21.10	Average	156	208	P
6	7266.00	-3.57	50.02	46.45	74.00	-27.55	Peak	156	208	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

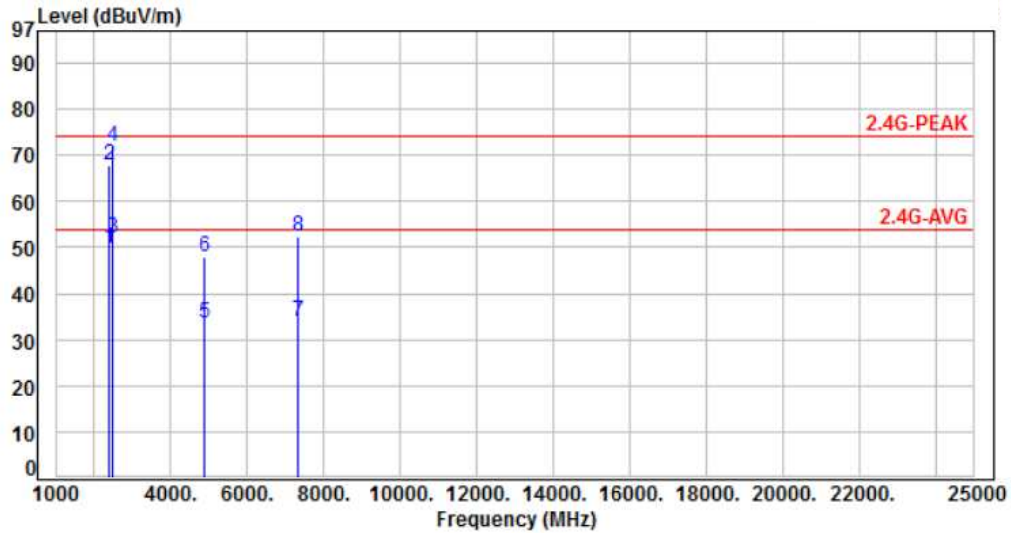


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	60.98	45.23	54.00	-8.77	Average	121	143	P
2	2390.00	-15.75	75.65	59.90	74.00	-14.10	Peak	121	143	P
3	4844.00	-7.50	35.22	27.72	54.00	-26.28	Average	248	302	P
4	4844.00	-7.50	49.78	42.28	74.00	-31.72	Peak	248	302	P
5	7266.00	-3.57	35.79	32.22	54.00	-21.78	Average	182	246	P
6	7266.00	-3.57	49.44	45.87	74.00	-28.13	Peak	182	246	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

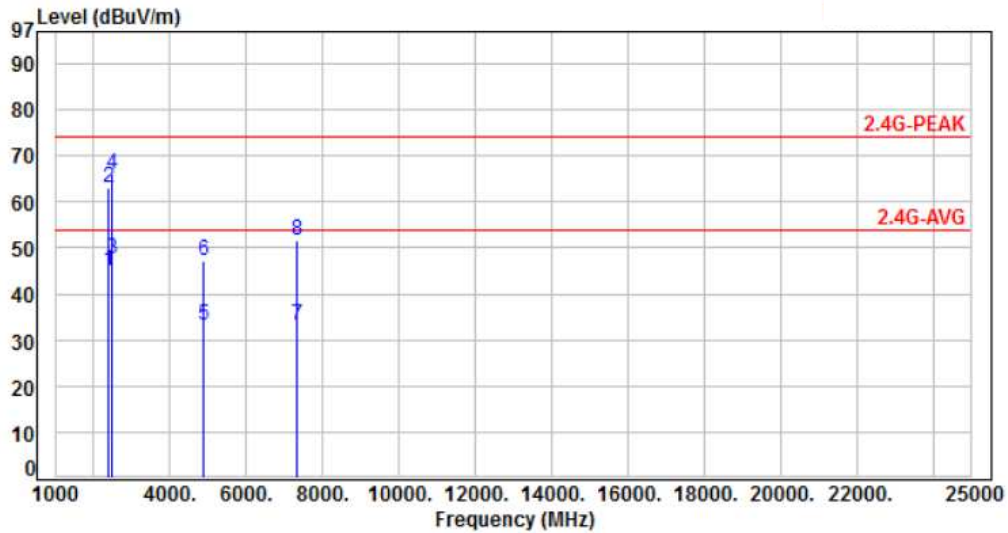


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	65.55	49.80	54.00	-4.20	Average	100	277	P
2	2390.00	-15.75	83.60	67.85	74.00	-6.15	Peak	100	277	P
3	2483.50	-15.48	67.52	52.04	54.00	-1.96	Average	100	277	P
4	2483.50	-15.48	87.26	71.78	74.00	-2.22	Peak	100	277	P
5	4874.00	-7.39	41.11	33.72	54.00	-20.28	Average	185	349	P
6	4874.00	-7.39	55.17	47.78	74.00	-26.22	Peak	185	349	P
7	7311.00	-3.50	37.56	34.06	54.00	-19.94	Average	173	324	P
8	7311.00	-3.50	56.04	52.54	74.00	-21.46	Peak	173	324	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	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

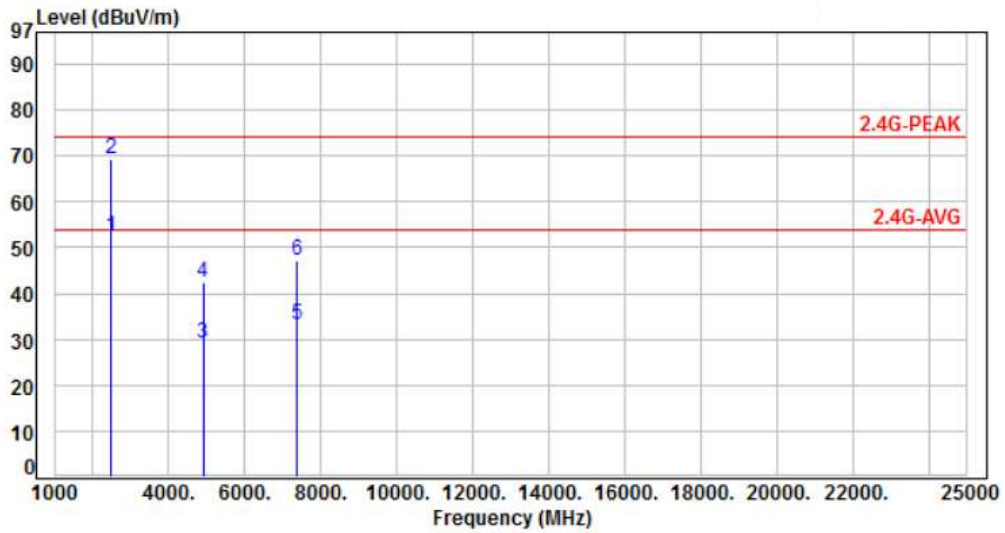


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	60.79	45.04	54.00	-8.96	Average	102	314	P
2	2390.00	-15.75	78.74	62.99	74.00	-11.01	Peak	102	314	P
3	2483.50	-15.48	62.92	47.44	54.00	-6.56	Average	102	314	P
4	2483.50	-15.48	81.61	66.13	74.00	-7.87	Peak	102	314	P
5	4874.00	-7.39	40.67	33.28	54.00	-20.72	Average	192	241	P
6	4874.00	-7.39	54.44	47.05	74.00	-26.95	Peak	192	241	P
7	7311.00	-3.50	36.75	33.25	54.00	-20.75	Average	194	198	P
8	7311.00	-3.50	55.23	51.73	74.00	-22.27	Peak	194	198	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, CH09	Temperature	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %

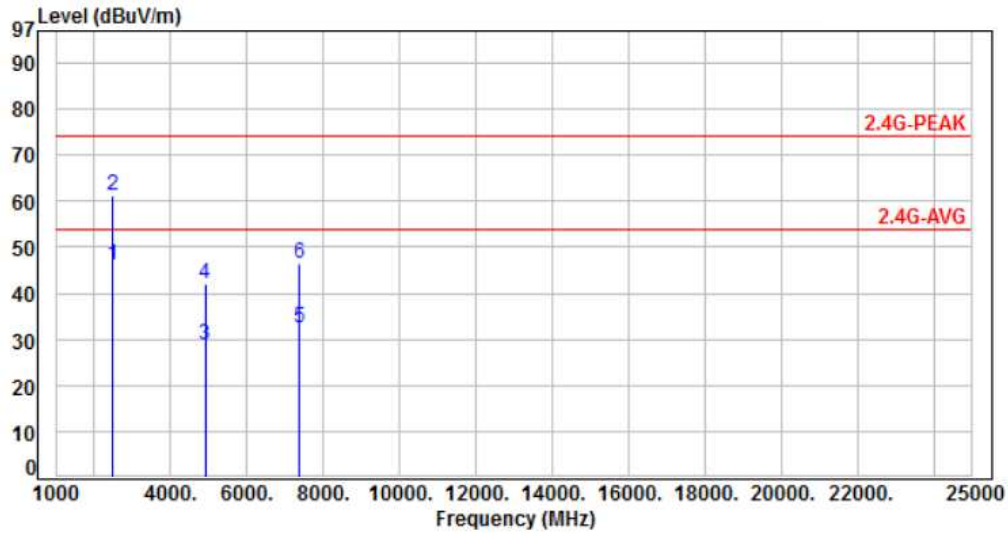


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	67.92	52.44	54.00	-1.56	Average	112	209	P
2	2483.50	-15.48	84.66	69.18	74.00	-4.82	Peak	112	209	P
3	4904.00	-7.26	36.53	29.27	54.00	-24.73	Average	102	244	P
4	4904.00	-7.26	49.82	42.56	74.00	-31.44	Peak	102	244	P
5	7356.00	-3.42	36.59	33.17	54.00	-20.83	Average	144	148	P
6	7356.00	-3.42	50.52	47.10	74.00	-26.90	Peak	144	148	P

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



Power	: AC 120	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH09	Temperature	: 25 °C
Test Date	: Mar. 20, 2017	Humidity	: 63 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	61.73	46.25	54.00	-7.75	Average	100	312	P
2	2483.50	-15.48	76.85	61.37	74.00	-12.63	Peak	100	312	P
3	4904.00	-7.26	36.01	28.75	54.00	-25.25	Average	242	298	P
4	4904.00	-7.26	49.36	42.10	74.00	-31.90	Peak	242	298	P
5	7356.00	-3.42	35.78	32.36	54.00	-21.64	Average	202	345	P
6	7356.00	-3.42	49.82	46.40	74.00	-27.60	Peak	202	345	P

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



6.7 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



7. Test of Conducted Spurious Emission

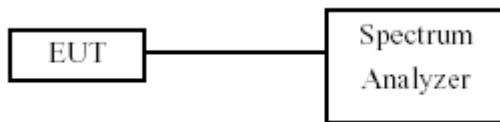
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

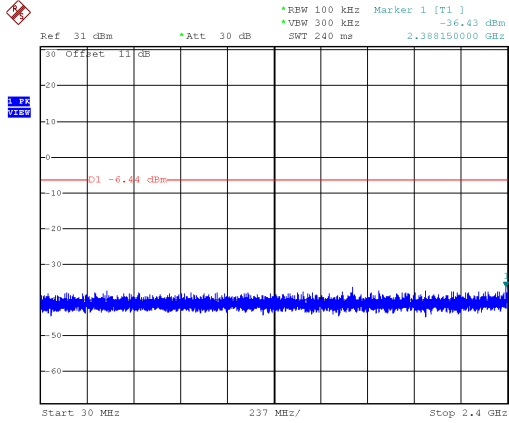
Test Result	: PASS	Temperature	: 26°C
Test Date	: Mar. 22, 2017	Humidity	: 61%

Note: Test plots refers to the following pages.

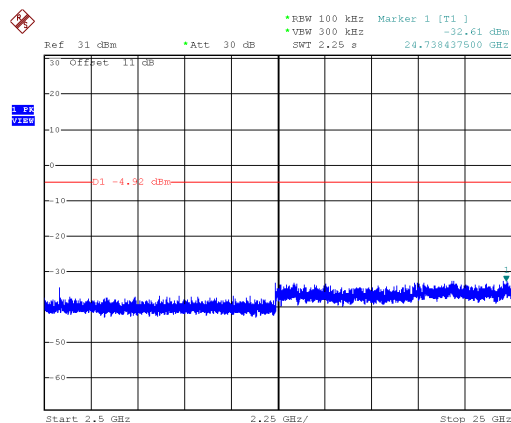
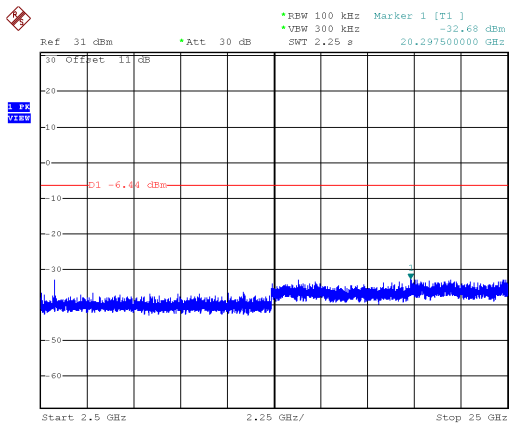
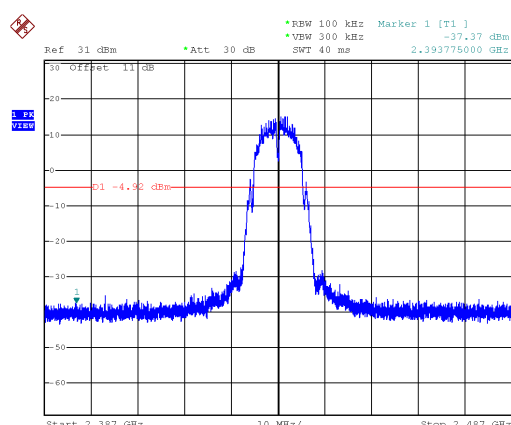
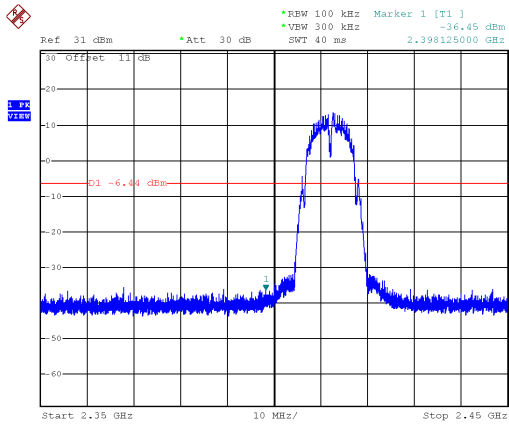
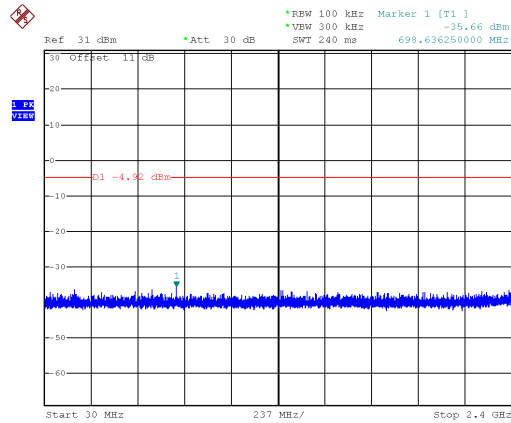


ANT 1

Modulation Type: 802.11b, CH 01



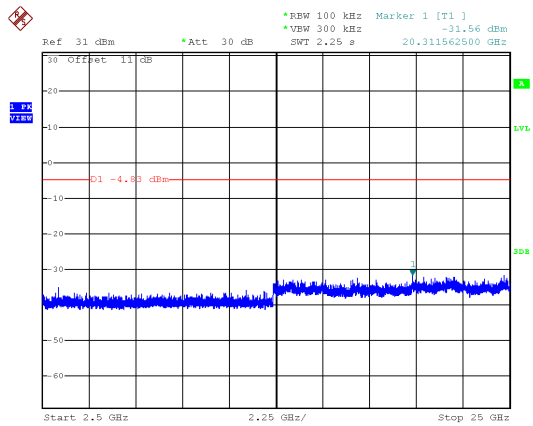
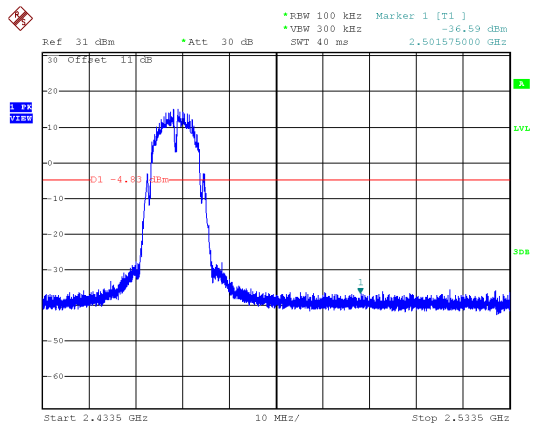
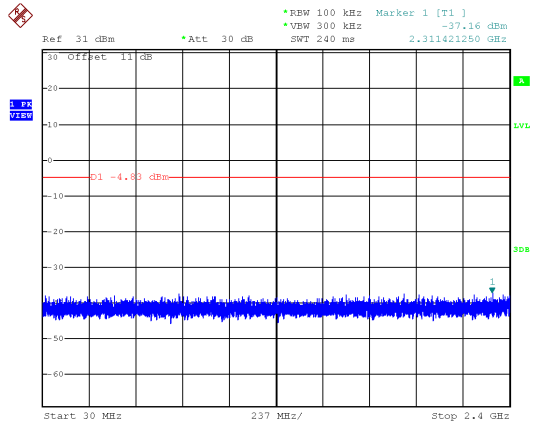
Modulation Type: 802.11b, CH 06





ANT 1

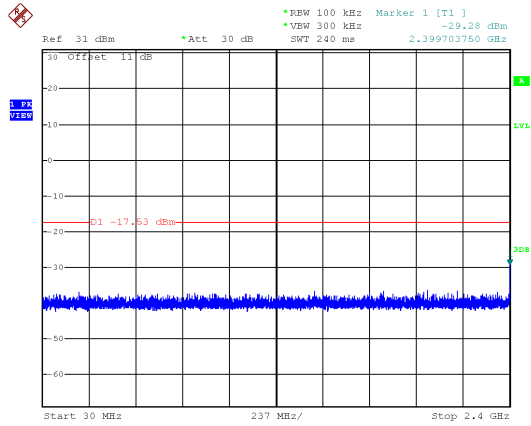
Modulation Type: 802.11b, CH 11



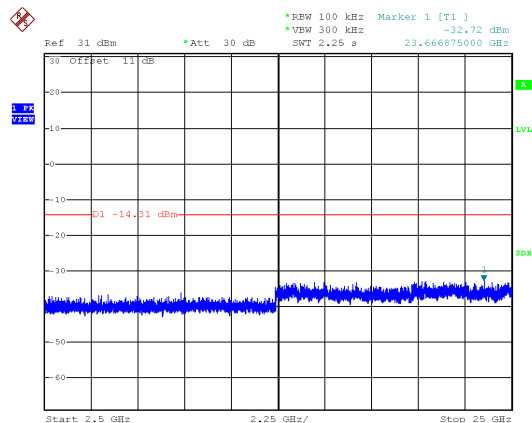
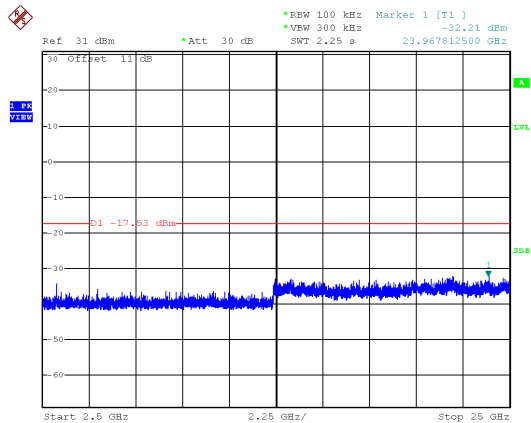
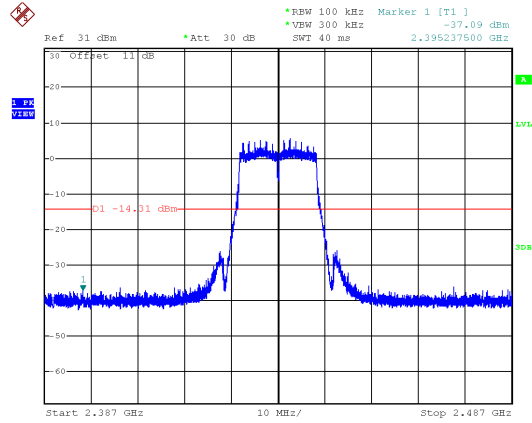
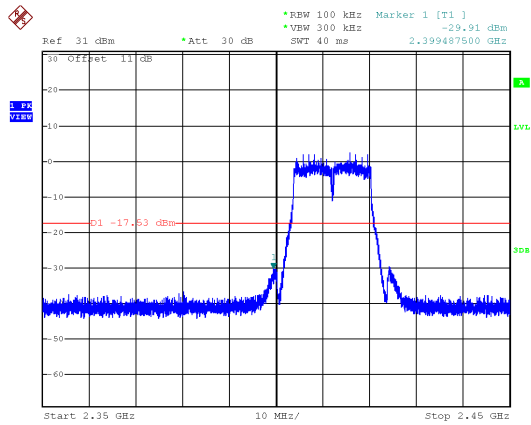
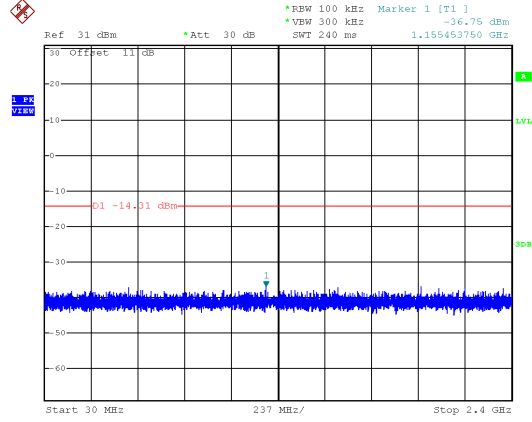


ANT 1

Modulation Type: 802.11g, CH 01



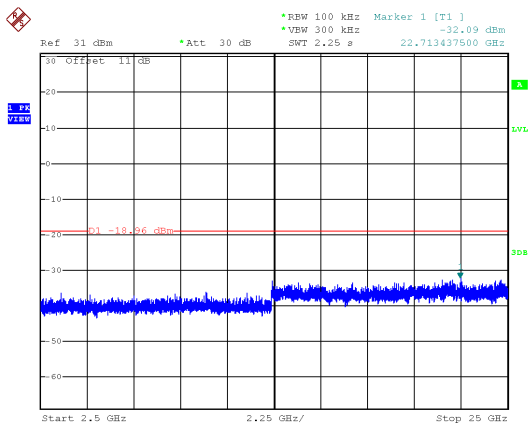
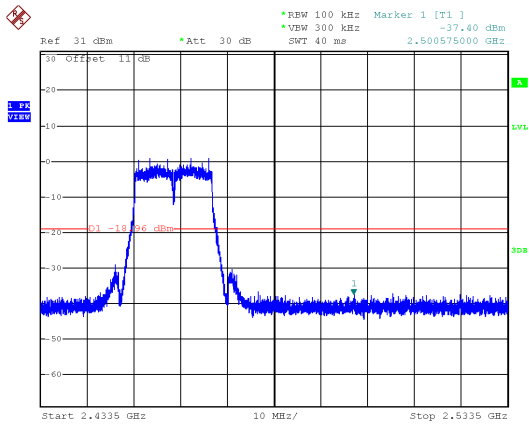
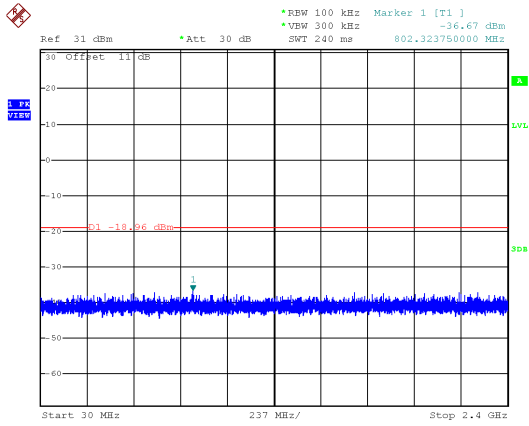
Modulation Type: 802.11g, CH 06





ANT 1

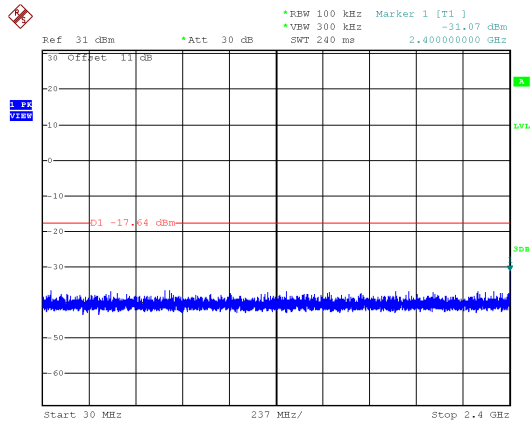
Modulation Type: 802.11g, CH 11



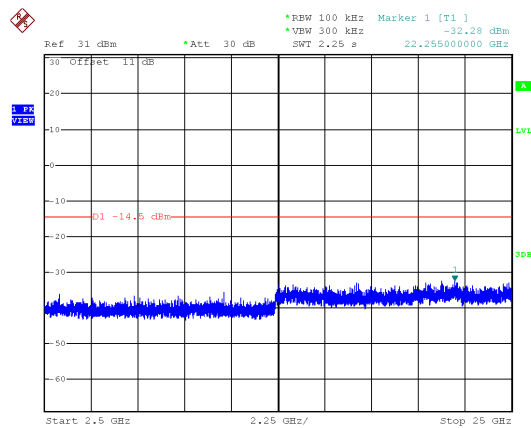
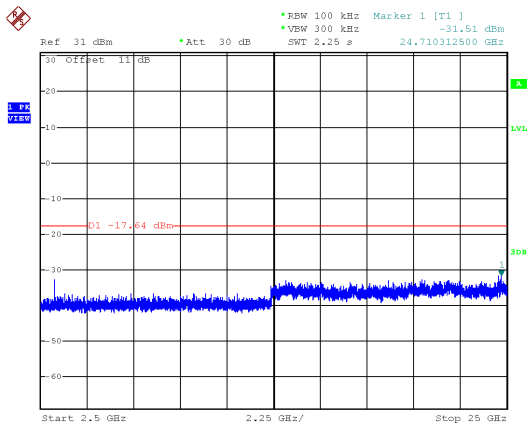
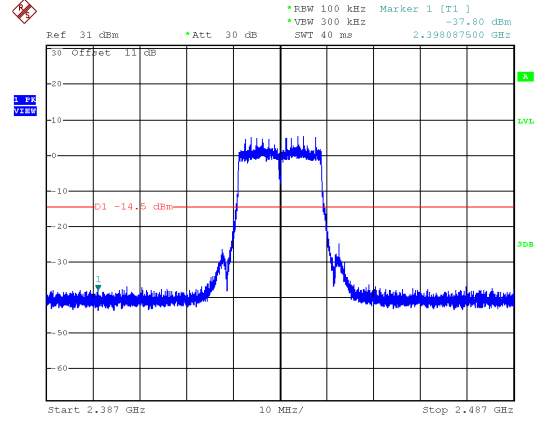
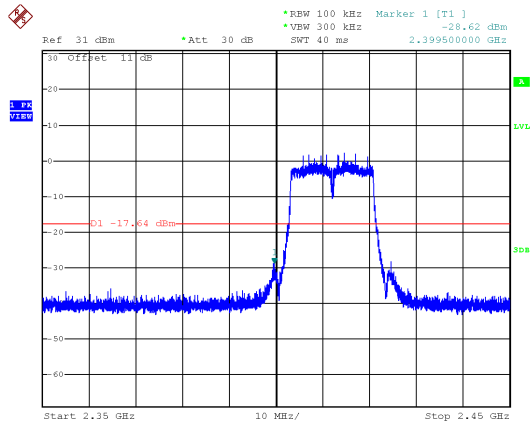
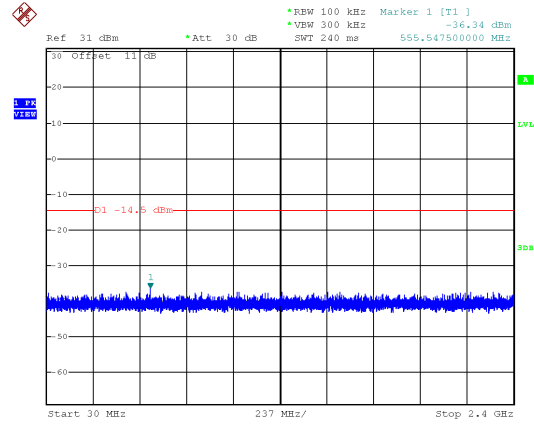


ANT 1

Modulation Type: 802.11n HT20, CH01



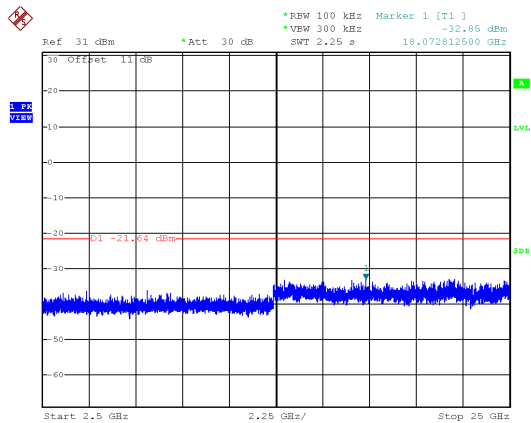
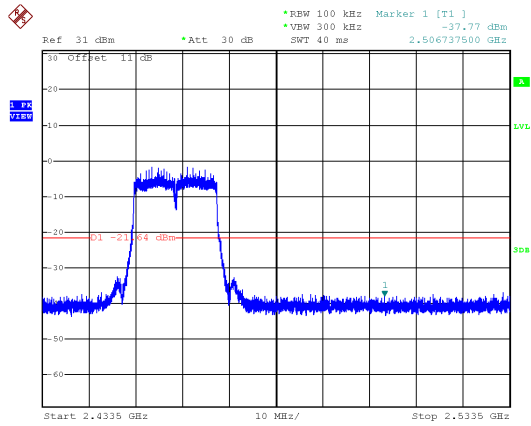
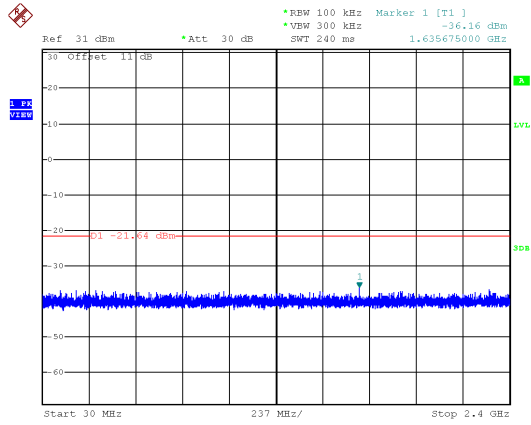
Modulation Type: 802.11n HT20, CH06





ANT 1

Modulation Type: 802.11n HT20, CH11

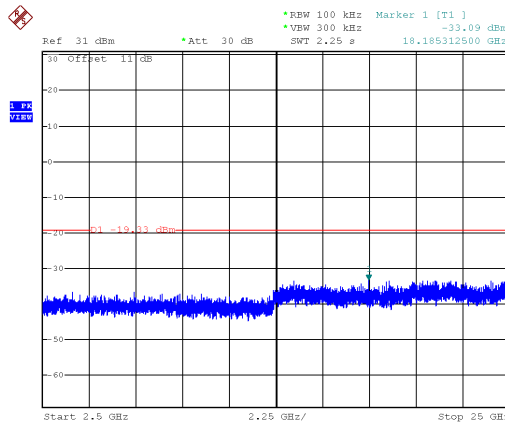
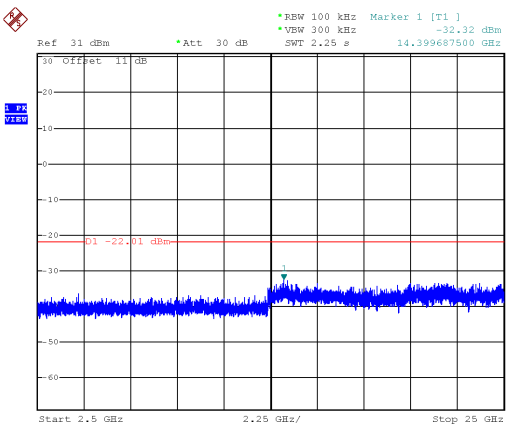
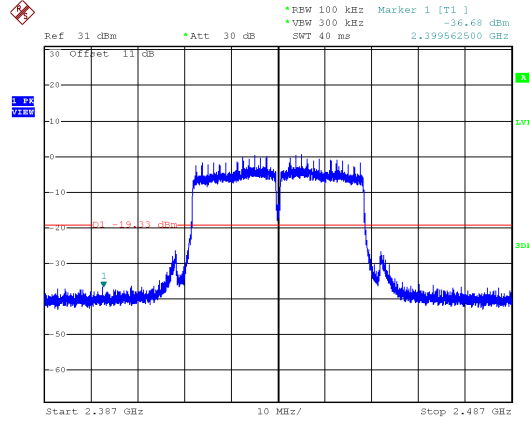
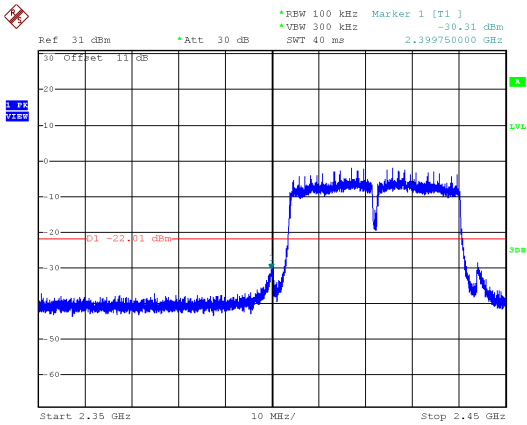
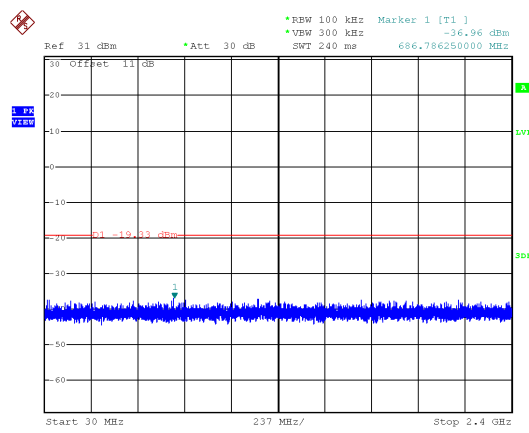
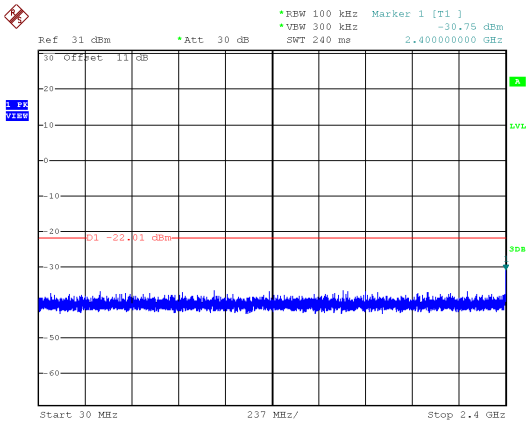




ANT 1

Modulation Type: 802.11n HT40, CH03

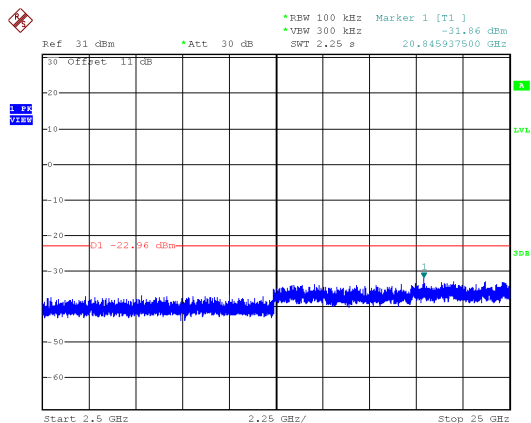
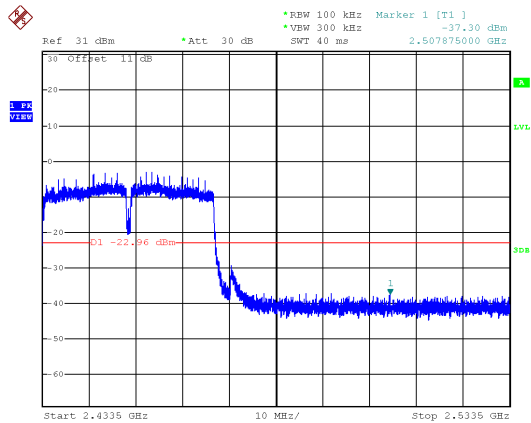
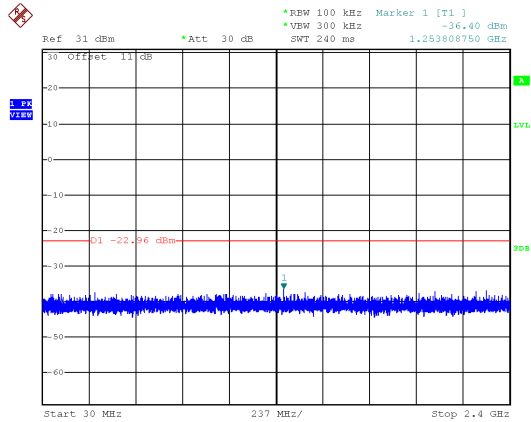
Modulation Type: 802.11n HT40, CH06





ANT 1

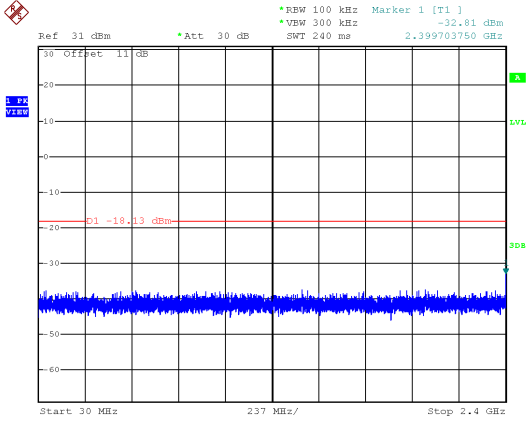
Modulation Type: 802.11n HT40, CH09



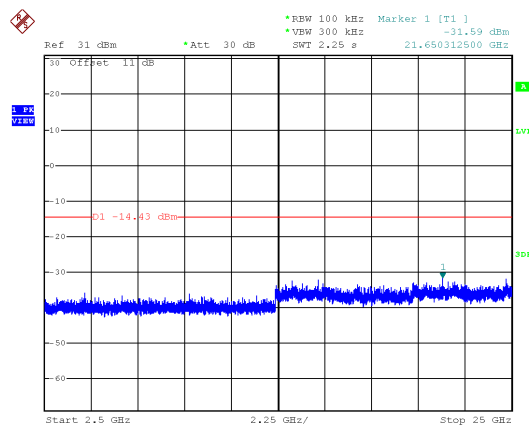
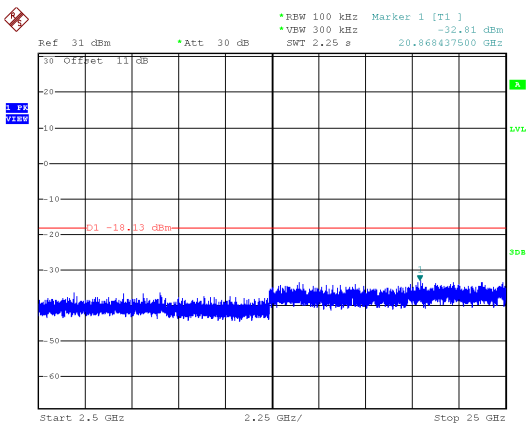
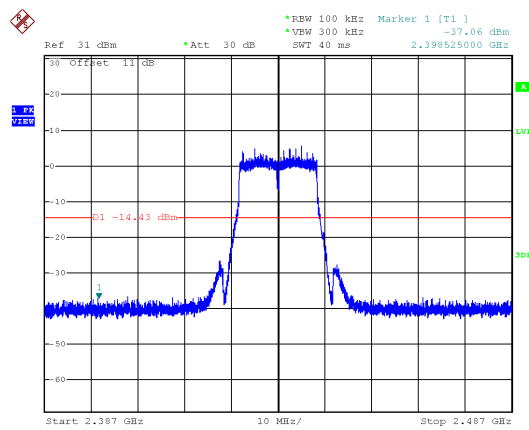
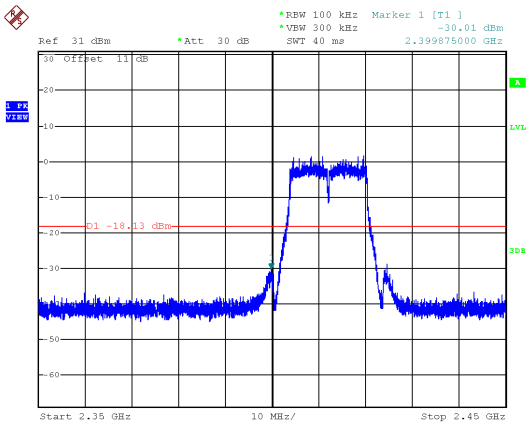
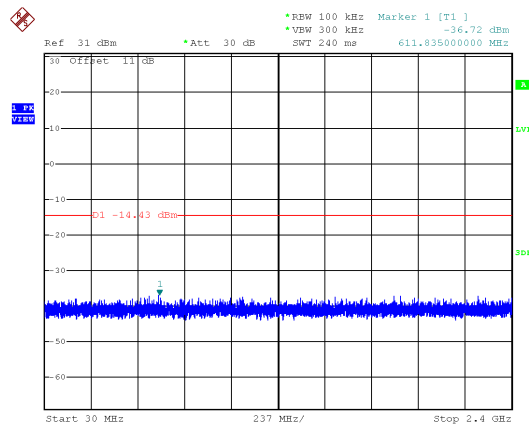


ANT 2

Modulation Type: 802.11g, CH 01



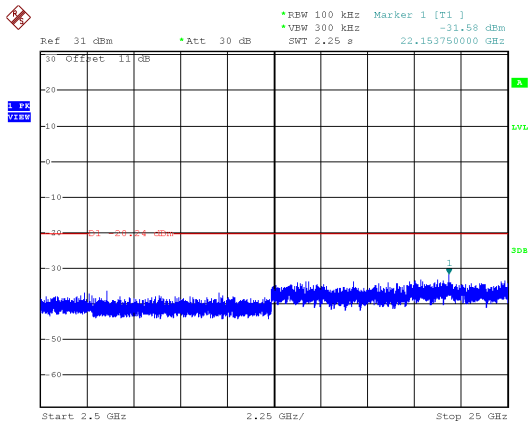
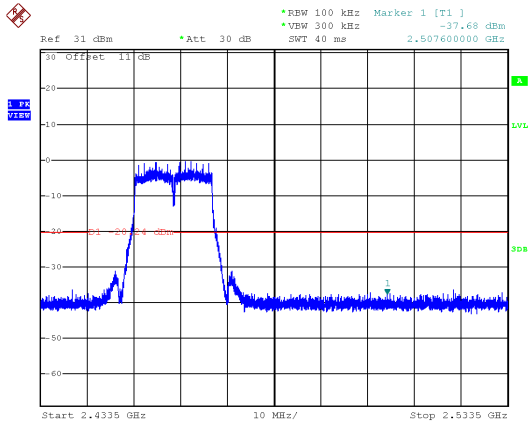
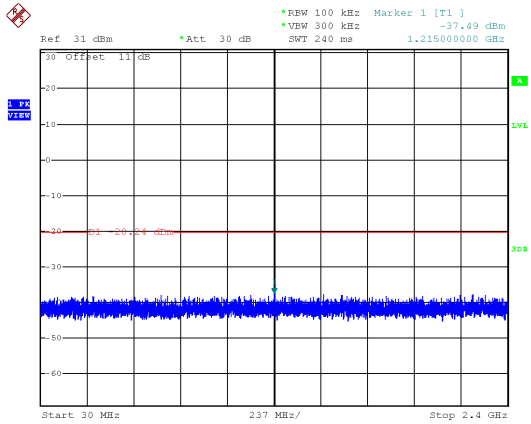
Modulation Type: 802.11g, CH 06





ANT 2

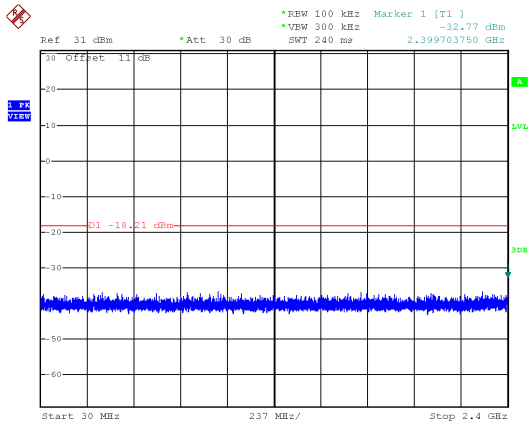
Modulation Type: 802.11g, CH 11



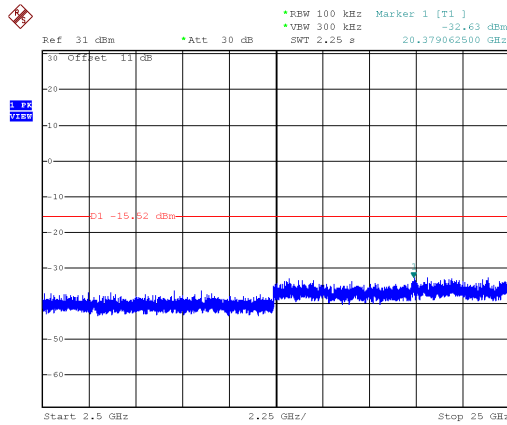
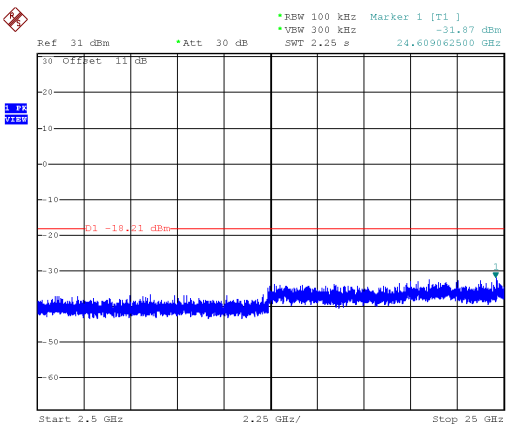
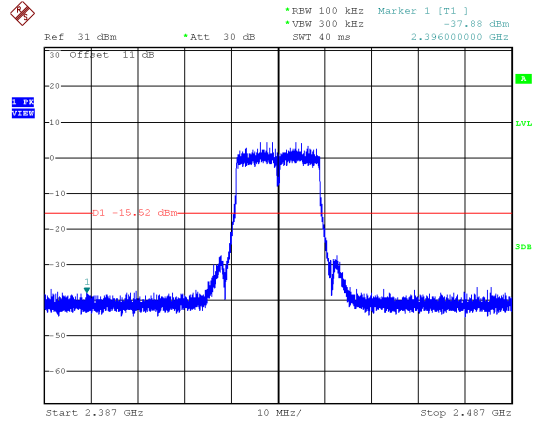
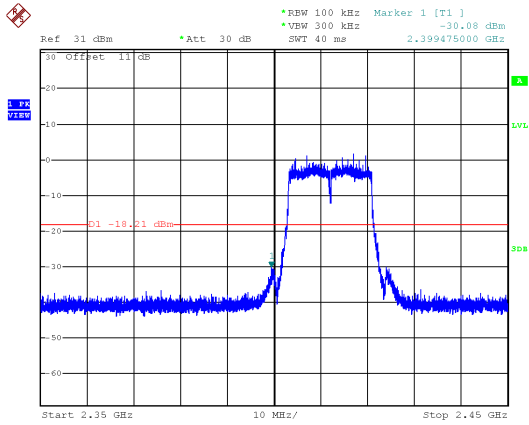
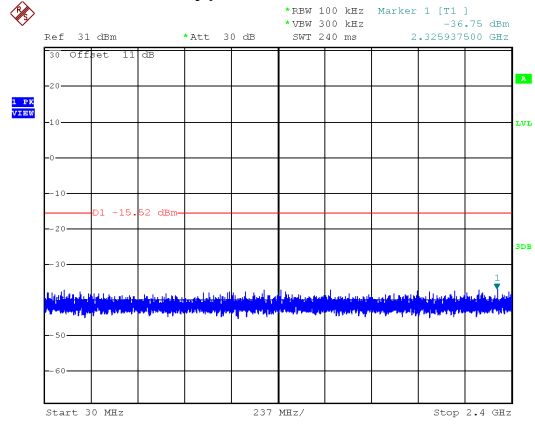


ANT 2

Modulation Type: 802.11n HT20, CH01



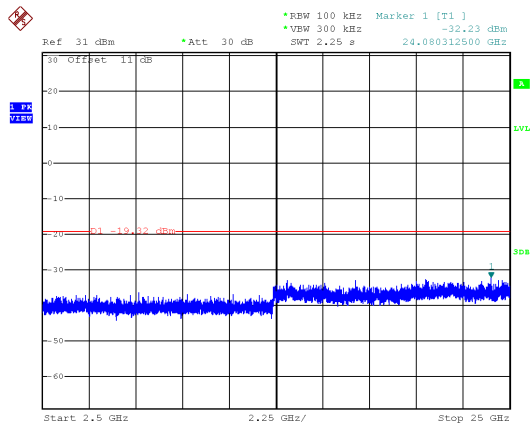
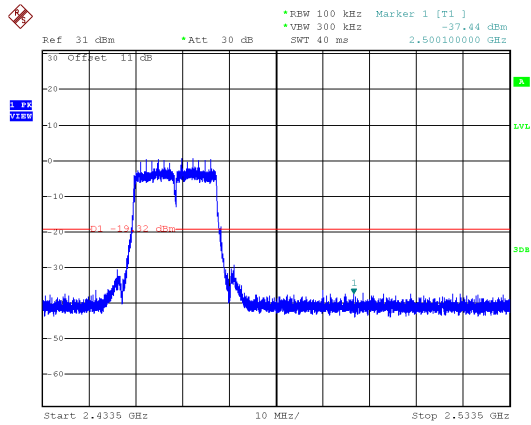
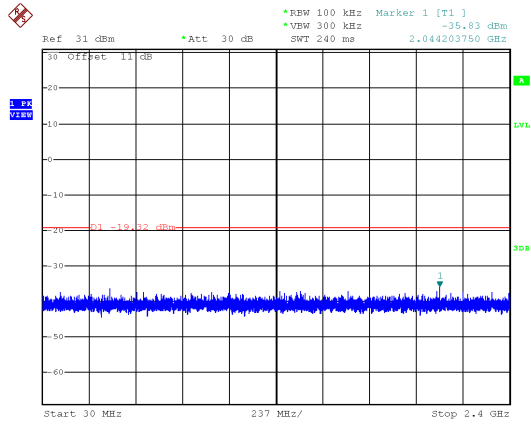
Modulation Type: 802.11n HT20, CH06





ANT 2

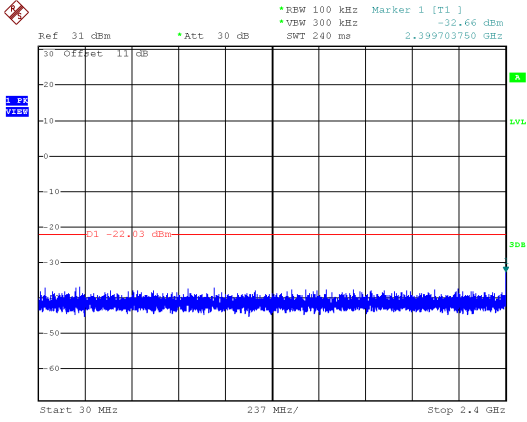
Modulation Type: 802.11n HT20, CH11



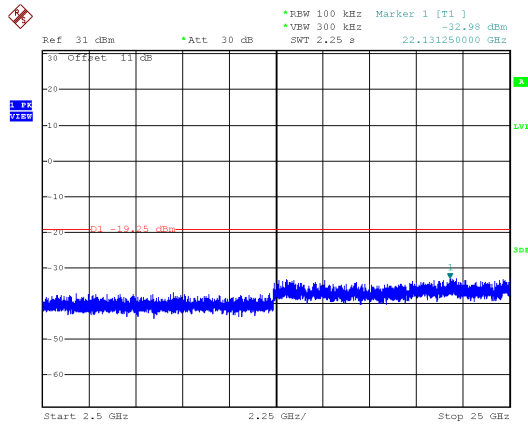
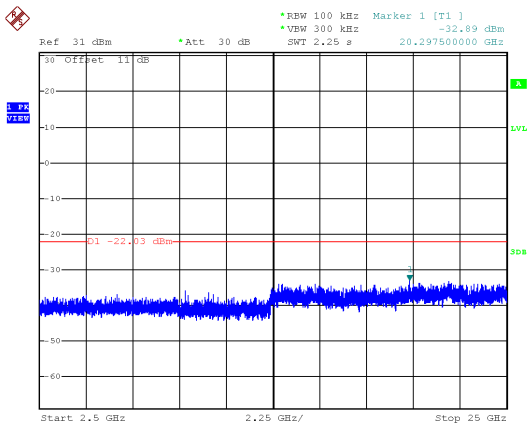
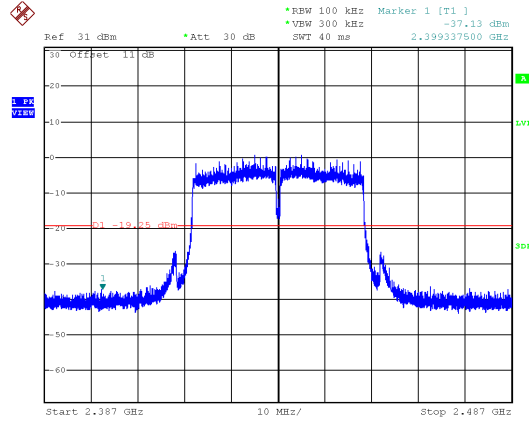
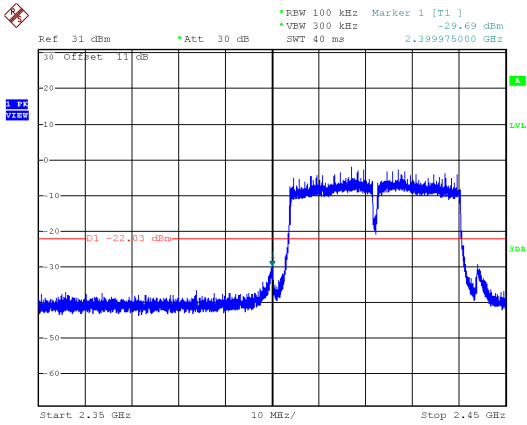
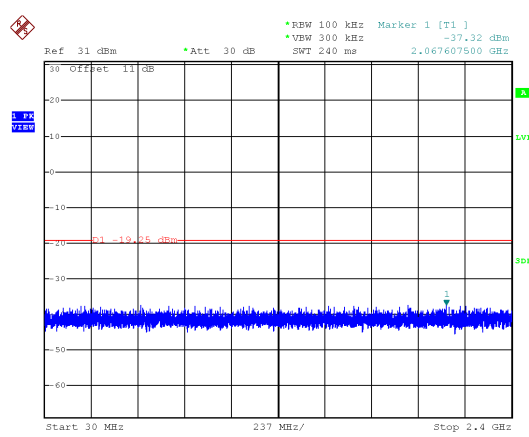


ANT 2

Modulation Type: 802.11n HT40, CH03



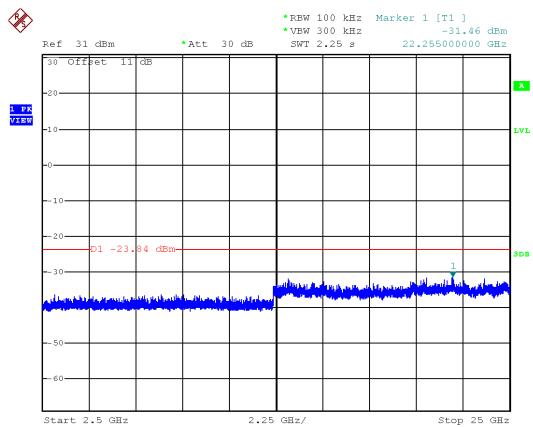
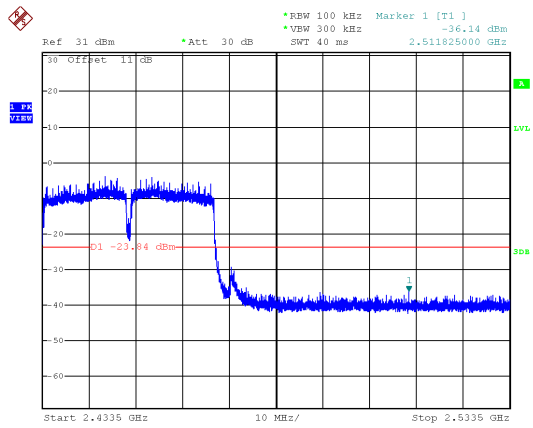
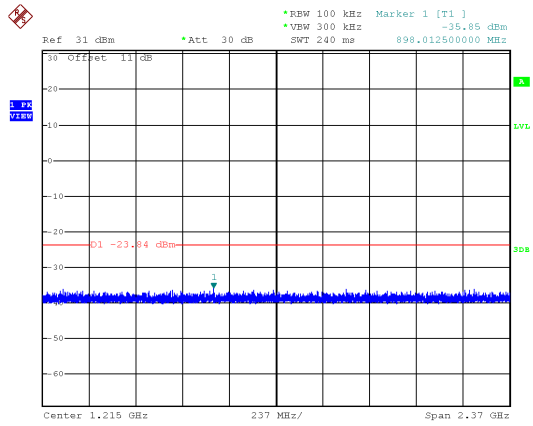
Modulation Type: 802.11n HT40, CH06





ANT 2

Modulation Type: 802.11n HT40, CH09





8. 6dB Bandwidth Measurement Data

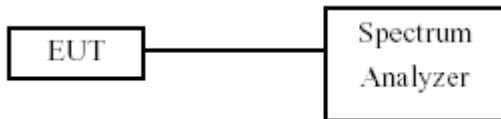
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW ≥ 3x RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



8.4 Test Result and Data

Temperature : 26°C

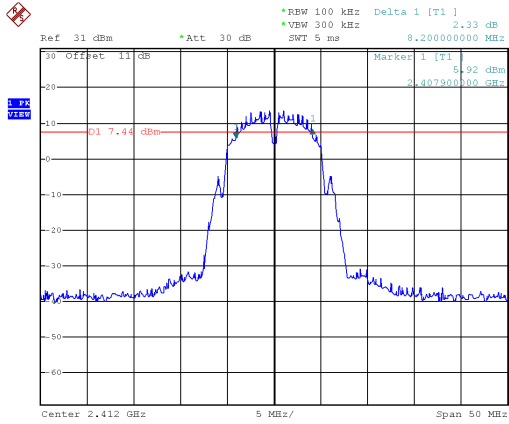
Humidity : 61%

Test Date : Mar. 22, 2017

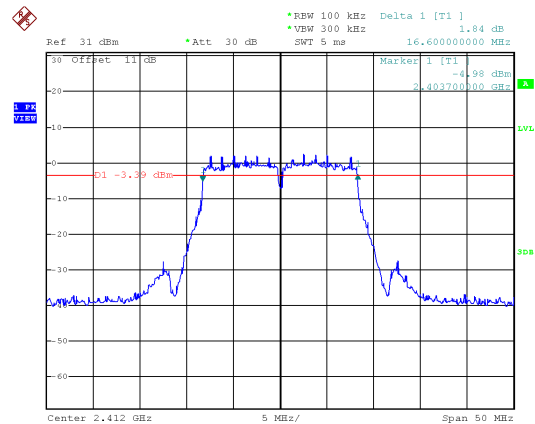
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT 1	ANT 2	
IEEE 802.11b (1Mbps)	01	2412	8.20	---	0.5
	06	2437	8.10	---	0.5
	11	2462	8.10	---	0.5
IEEE 802.11g (6Mbps)	01	2412	16.60	16.60	0.5
	06	2437	16.50	16.60	0.5
	11	2462	16.60	16.60	0.5
IEEE 802.11n HT20 (6.5Mbps)	01	2412	17.80	17.80	0.5
	06	2437	17.80	17.80	0.5
	11	2462	17.80	17.80	0.5
IEEE 802.11n HT40 (13.5Mbps)	03	2422	36.00	36.00	0.5
	06	2437	36.20	36.20	0.5
	09	2452	36.40	36.20	0.5



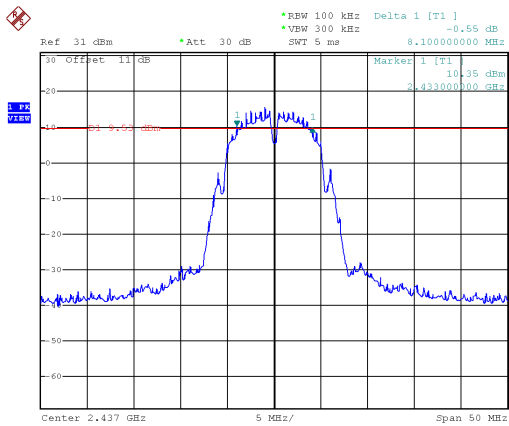
ANT 1
Modulation Type: 802.11b
CH01



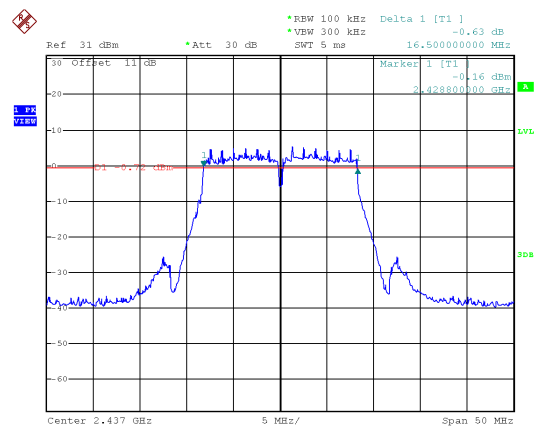
Modulation Type: 802.11g
CH01



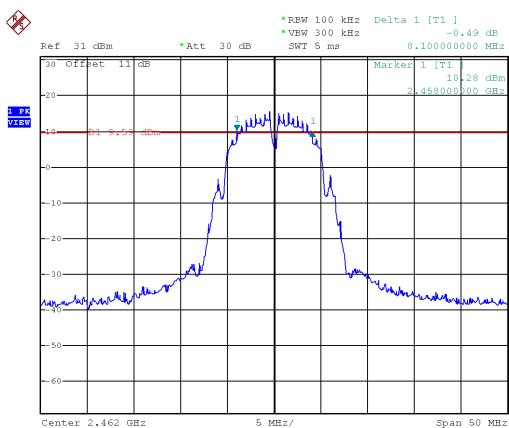
CH06



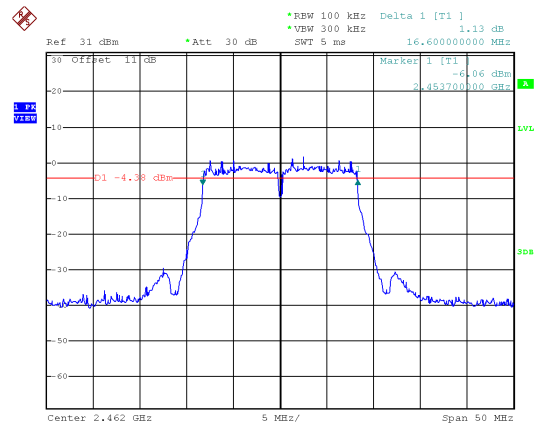
CH06



CH11



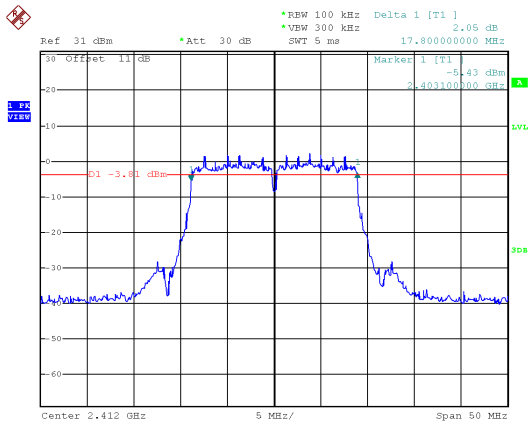
CH11



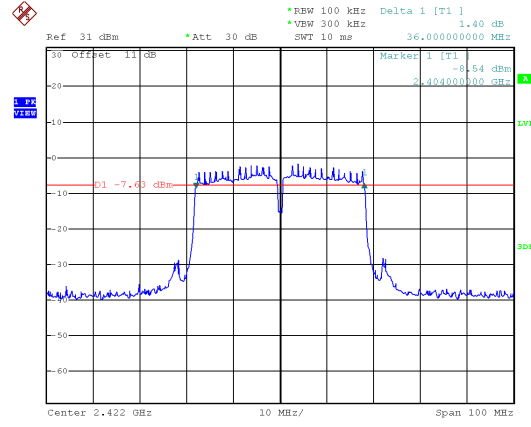


ANT 1

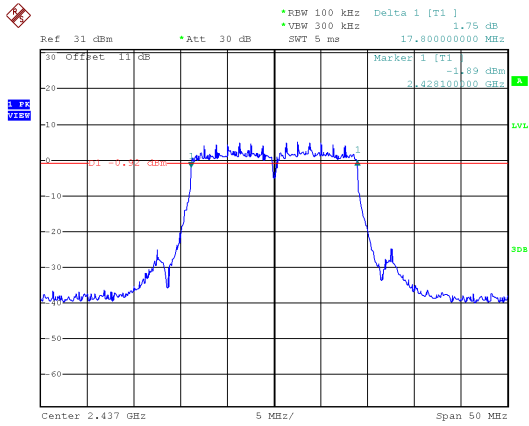
Modulation Type: 802.11n HT20
CH01



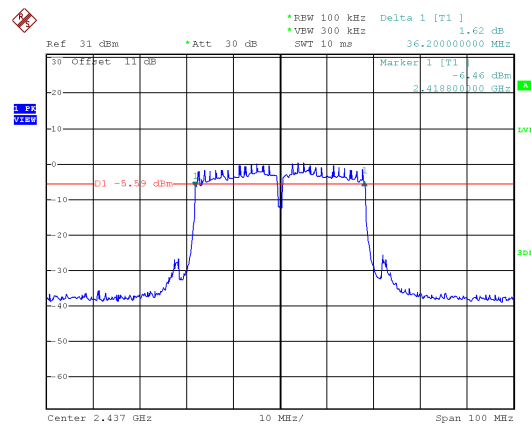
Modulation Type: 802.11n HT40
CH03



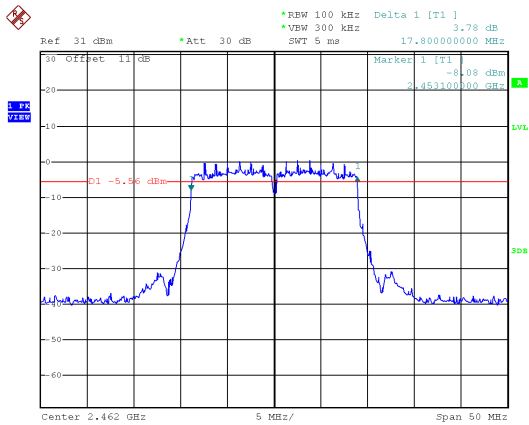
CH06



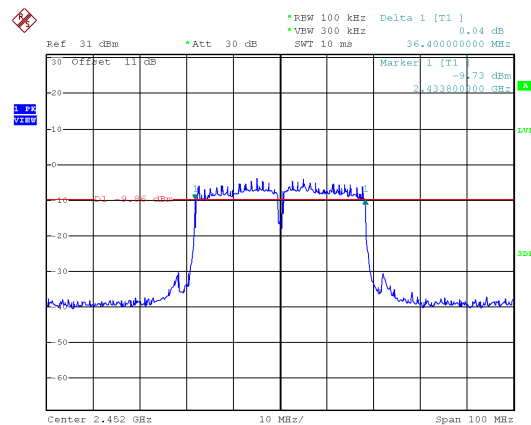
CH06



CH11



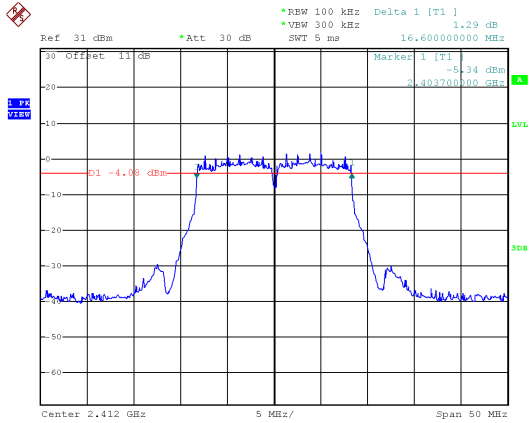
CH09



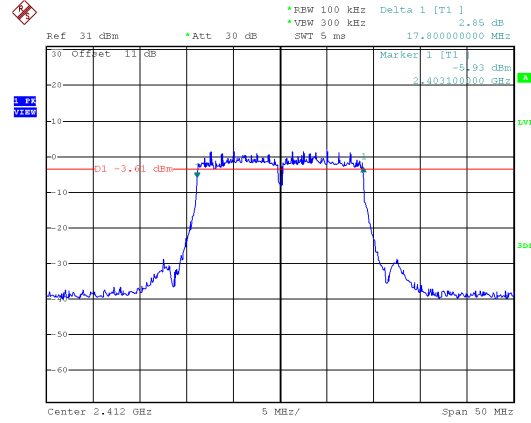


ANT 2

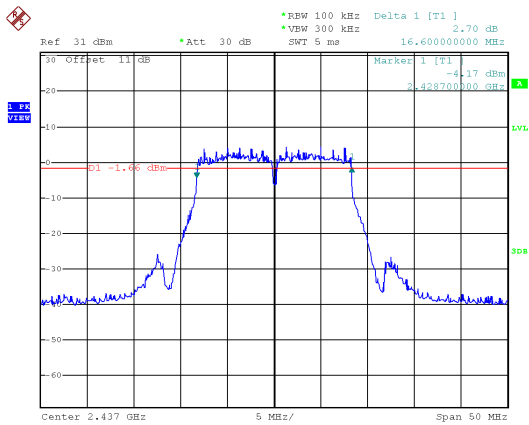
Modulation Type: 802.11g
CH01



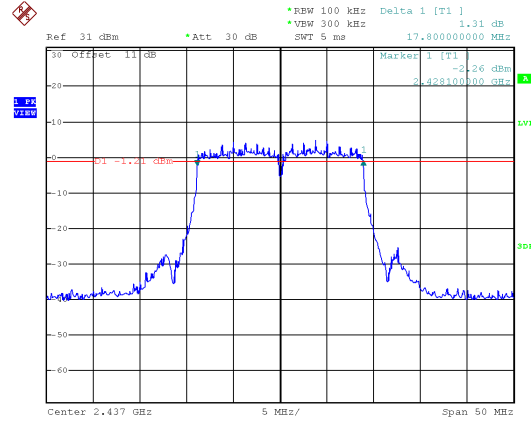
Modulation Type: 802.11n HT20
CH01



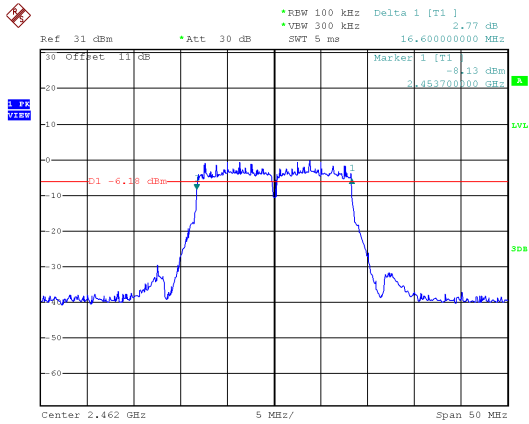
CH06



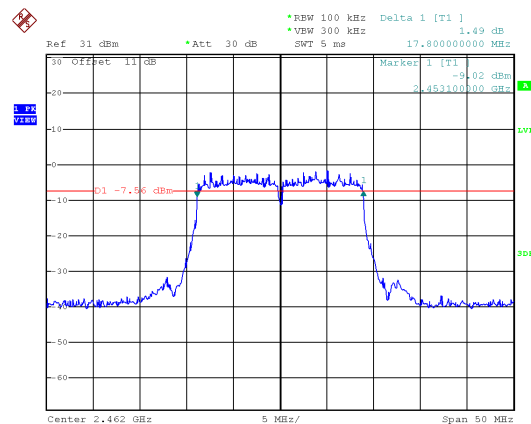
CH06



CH11



CH11

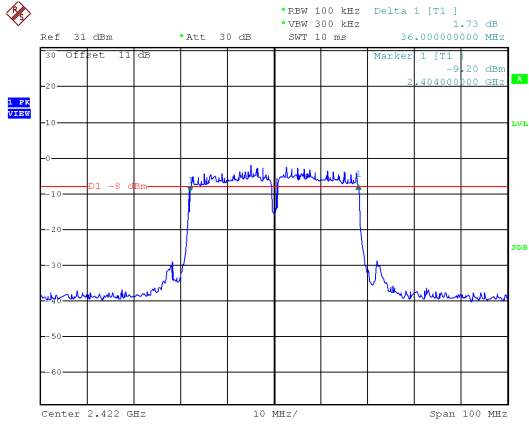




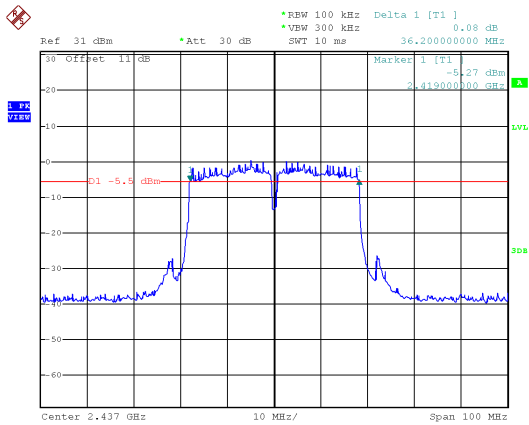
ANT 2

Modulation Type: 802.11n HT40

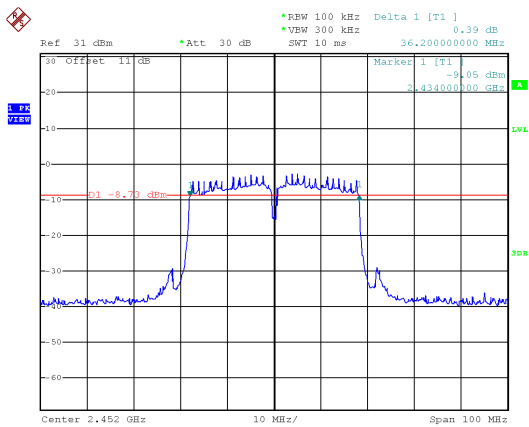
CH03



CH06



CH09





9. Maximum Peak and Average Output Power

9.1 Test Limit

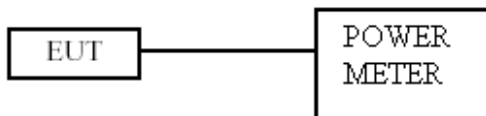
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout





9.4 Test Result and Data

Temperature : 26°C

Humidity : 61%

Test Date : Mar. 22, 2017

Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)	Power Limit (dBm)
			ANT 1	ANT 2	A+B	ANT 1+B	
IEEE 802.11b (1Mbps)	01	2412	25.64	---	25.64	366.44	30.00
	06	2437	27.11	---	27.11	514.04	30.00
	11	2462	26.87	---	26.87	486.41	30.00
IEEE 802.11g (6Mbps)	01	2412	23.67	23.56	26.63	459.80	30.00
	06	2437	27.05	25.96	29.55	901.45	30.00
	11	2462	22.18	21.43	24.83	304.19	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	23.02	22.48	25.77	377.46	30.00
	06	2437	26.66	26.25	29.47	885.14	30.00
	11	2462	21.33	20.35	23.88	244.22	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	21.05	20.52	23.80	240.07	30.00
	06	2437	23.41	23.22	26.33	429.17	30.00
	09	2452	20.02	19.22	22.65	184.02	30.00

Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)			Avg. Power Output (mW)	Power Limit (dBm)
			ANT 1	ANT 2	A+B	ANT 1+B	
IEEE 802.11b (1Mbps)	01	2412	21.78	---	21.78	150.66	30.00
	06	2437	23.45	---	23.45	221.31	30.00
	11	2462	23.11	---	23.11	204.64	30.00
IEEE 802.11g (6Mbps)	01	2412	13.92	13.37	16.66	46.39	30.00
	06	2437	17.09	16.04	19.61	91.35	30.00
	11	2462	12.54	11.17	14.92	31.04	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	13.57	12.72	16.18	41.46	30.00
	06	2437	16.94	16.02	19.51	89.43	30.00
	11	2462	11.75	10.27	14.08	25.60	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	11.78	11.18	14.50	28.19	30.00
	06	2437	13.84	13.66	16.76	47.44	30.00
	09	2452	10.86	9.78	13.36	21.70	30.00

Note: Average power is for reference only.



10. Power Spectral Density

10.1 Test Limit

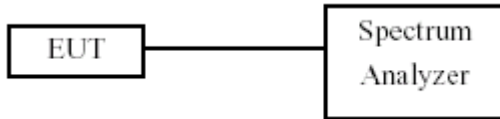
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer’s resolution bandwidth were set at 3kHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Temperature : 26°C

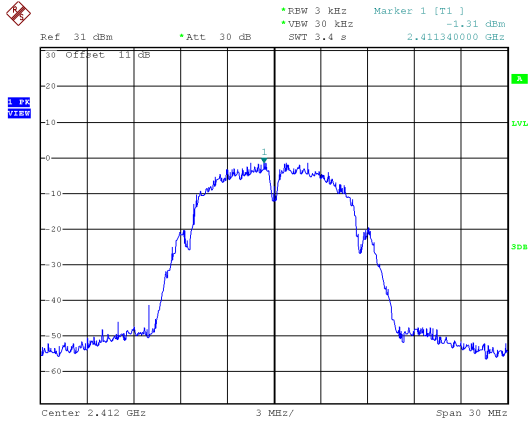
Humidity : 61%

Test Date : Mar. 22, 2017

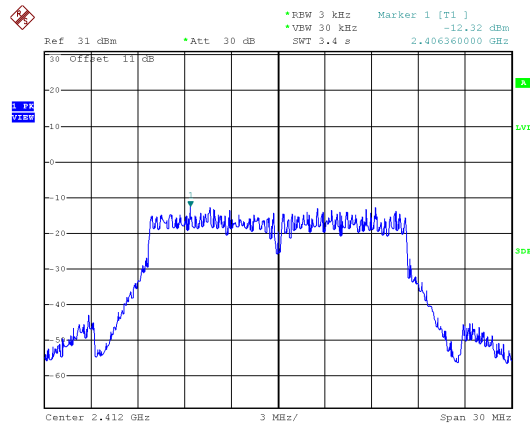
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT 1	ANT 2				
IEEE 802.11b (1Mbps)	01	2412	-1.31	---	-1.31	0.00	-1.31	8.00
	06	2437	1.47	---	1.47	0.00	1.47	8.00
	11	2462	0.26	---	0.26	0.00	0.26	8.00
IEEE 802.11g (6Mbps)	01	2412	-12.32	-10.19	-8.12	0.00	-8.12	7.99
	06	2437	-7.79	-9.18	-5.42	0.00	-5.42	7.99
	11	2462	-13.14	-14.52	-10.77	0.00	-10.77	7.99
IEEE 802.11n HT20 (6.5Mbps)	01	2412	-11.8	-12.56	-9.15	0.00	-9.15	7.99
	06	2437	-8.47	-9.79	-6.07	0.00	-6.07	7.99
	11	2462	-12.55	-14.29	-10.32	0.00	-10.32	7.99
IEEE 802.11n HT40 (13.5Mbps)	03	2422	-15.49	-17.76	-13.47	0.00	-13.47	7.99
	06	2437	-14.2	-13.39	-10.77	0.00	-10.77	7.99
	09	2452	-16.89	-18.55	-14.63	0.00	-14.63	7.99



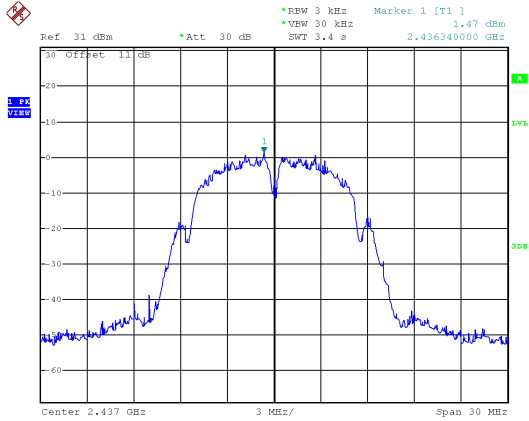
ANT 1
Modulation Type: 802.11b
CH01



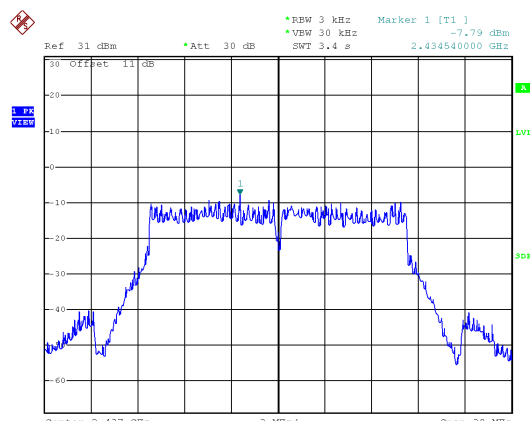
Modulation Type: 802.11g
CH01



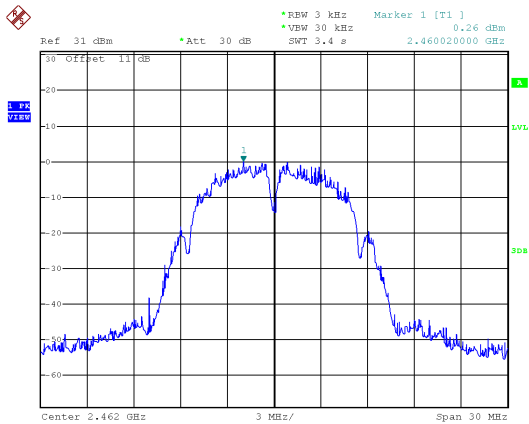
CH06



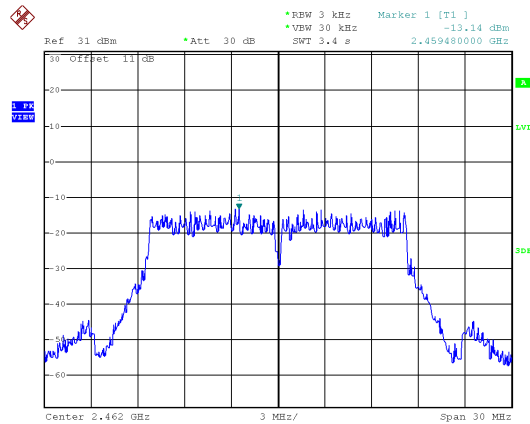
CH06



CH11

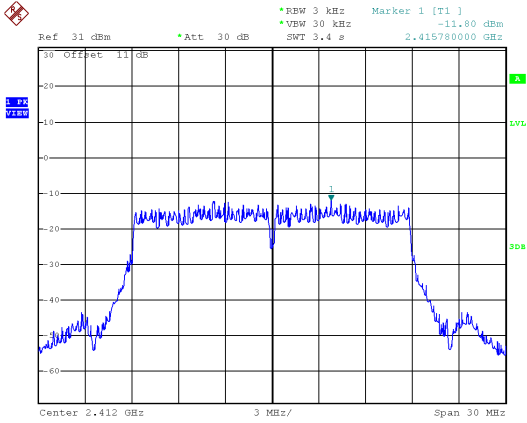


CH11

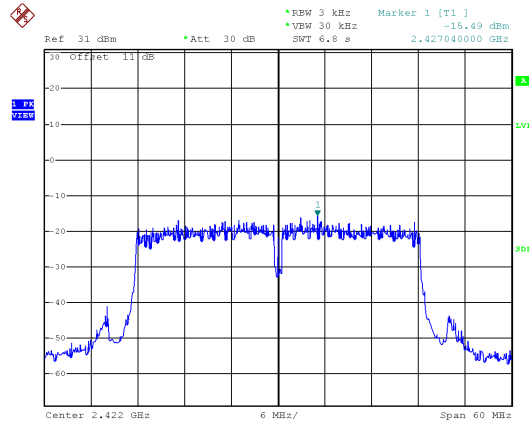




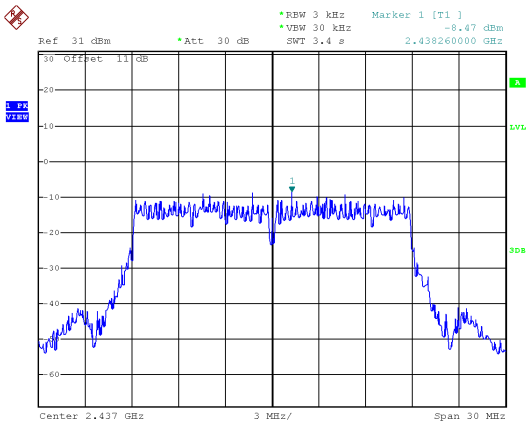
ANT 1
Modulation Type: 802.11n HT20
CH01



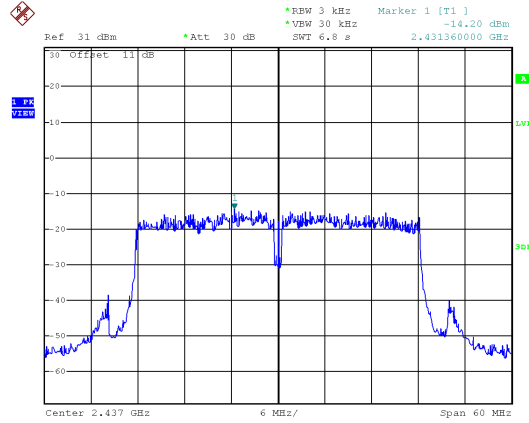
Modulation Type: 802.11n HT40
CH03



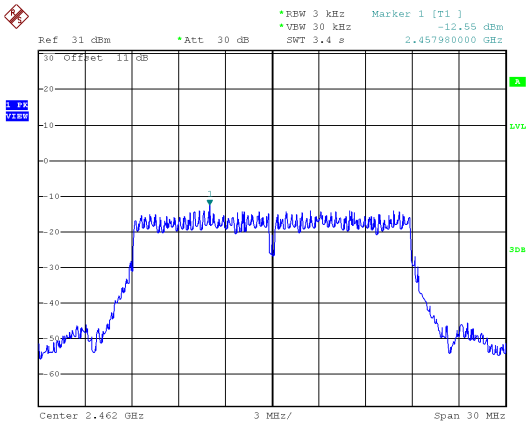
CH06



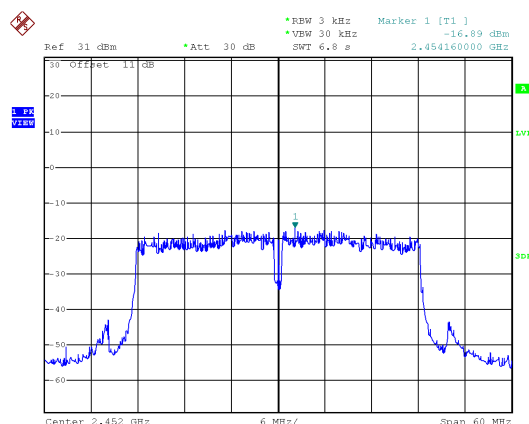
CH06



CH11

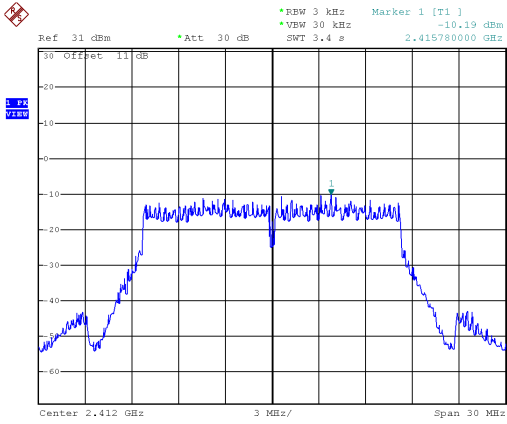


CH09

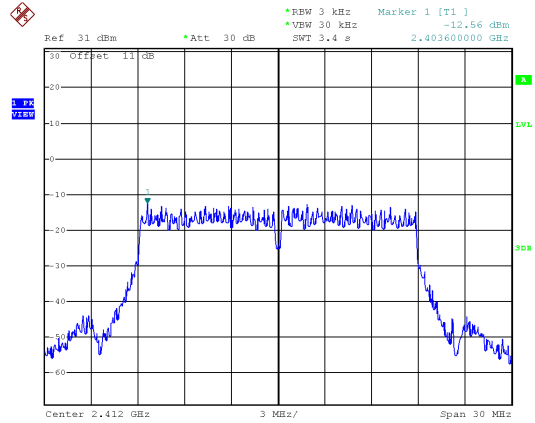




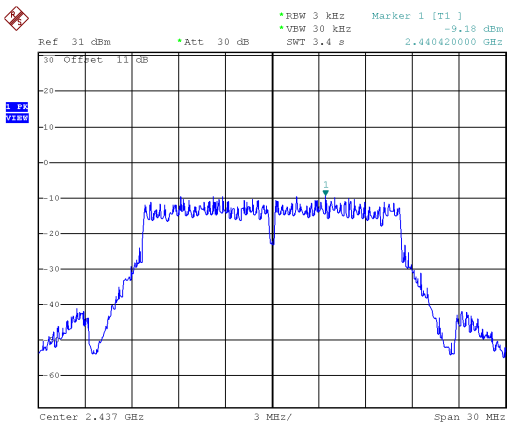
ANT 2
Modulation Type: 802.11g
CH01



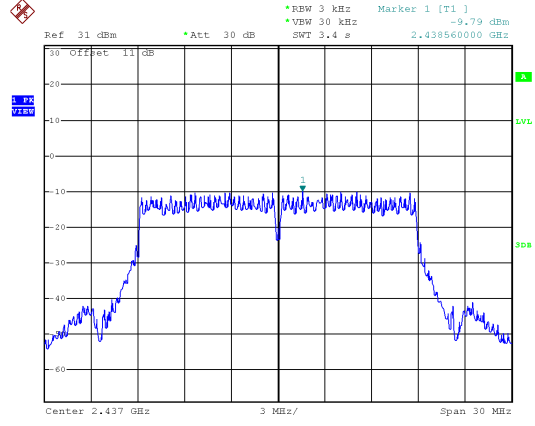
Modulation Type: 802.11n HT20
CH01



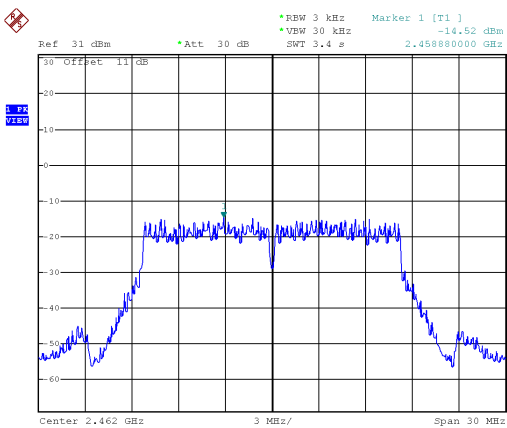
CH06



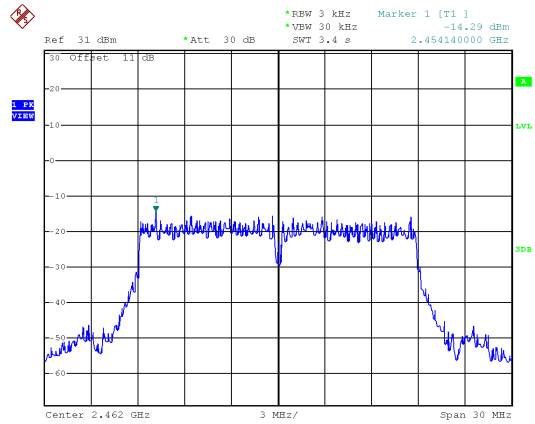
CH06



CH11

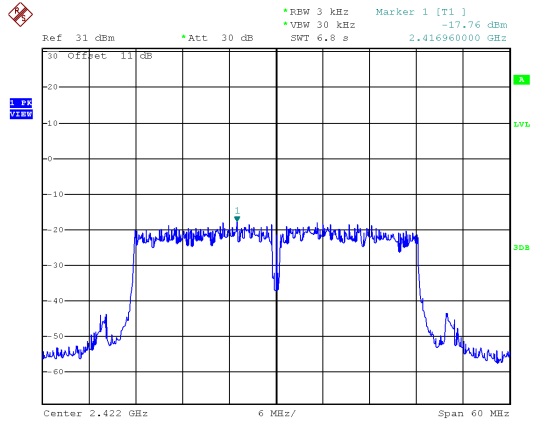


CH11

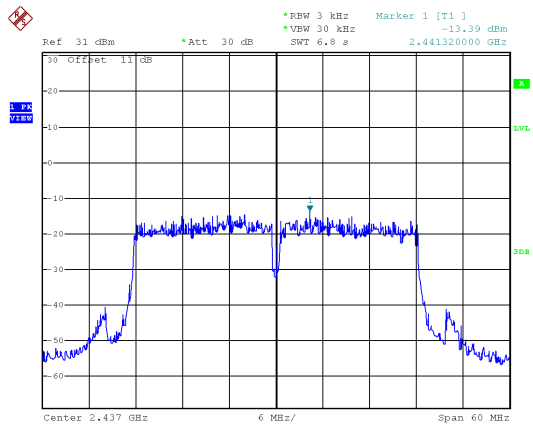




ANT 2
Modulation Type: 802.11n HT40
CH03



CH06



CH09

