



FCC RADIO TEST REPORT

Applicant	: D-Link Corporation
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Tel	: 886-2-66000123
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Equipment	: Unified AC Concurrent Dual-band PoE Access Point
Model No.	: DWL-6610AP
Trade Name	: D-Link
FCC ID.	: KA2WL6610APB1

I HEREBY CERTIFY THAT :

The sample was received on Oct. 12, 2016 and the testing was carried out on Mar. 08, 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

[illegible]



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-6610AP
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: 2412-2472 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	PIFA antenna 2412-2462MHz: ANT 1: 3.9dBi; ANT 2: 4dBi 5150MHz-5250MHz: ANT 3: 3.6dBi; ANT 4: 3.1dBi 5725MHz -5850MHz: ANT 3: 3.3dBi; ANT 4: 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.
- An executive program, "MTool_REL_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	Latitude E5450	Power Cable, Unshielding, 1.8m
Notebook	ASUS	A8J	Power Cable, Unshielding, 1.8m



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	3116	31589	2016/03/22	2017/03/21
Horn Antenna	EMCO	3116	31974	2016/09/01	2017/08/31
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2016/03/16	2017/03/15
Preamplifier	EM	EM330	060659	2016/03/23	2017/03/22
Preamplifier	MITEQ	AMF-7D-001010 0-30-10P	1860212	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2016/11/04	2017/11/03
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2016/03/18	2017/03/17
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2016/03/18	2017/03/17
Spectrum Analyzer	R&S	FSP40	100047	2016/03/05	2017/03/04
Bluetooth Tester	R&S	CBT	101133	2016/03/18	2017/03/17
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
USB Average Power Sensor	Theda	4PS6A	TW5451013~16	2016/11/08	2017/11/07
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	Console	v0.01	N/A	N/A
Software	Keysight	ETSI Standard Test System	v3.160422	N/A	N/A
Software	Keysight	N7607B Signal Studio	v2.0.0.1	N/A	N/A
Software	Keysight	Inservice Monitor Utility	N/A	N/A	N/A



4. Antenna Requirements

4.1 Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain	2412-2462MHz: ANT 1: 3.9dBi; ANT 2: 4dBi 5150MHz-5250MHz: ANT 3: 3.6dBi; ANT 4: 3.1dBi 5725MHz -5850MHz: ANT 3: 3.3dBi; ANT 4: 4dBi

For Non-Beamforming

2412-2462MHz

For Power directional gain= G_{ant} = 4 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.96 (dBi)

5150MHz-5250MHz

For Power directional gain= G_{ant} = 3.6 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.36 (dBi)

5725MHz -5850MHz

For Power directional gain= G_{ant} = 4 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.67 (dBi)

For Beamforming

5150MHz-5250MHz

For Power directional gain= G_{ant} = 6.36 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.36 (dBi)

5725MHz -5850MHz

For Power directional gain= G_{ant} = 6.67 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.67 (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

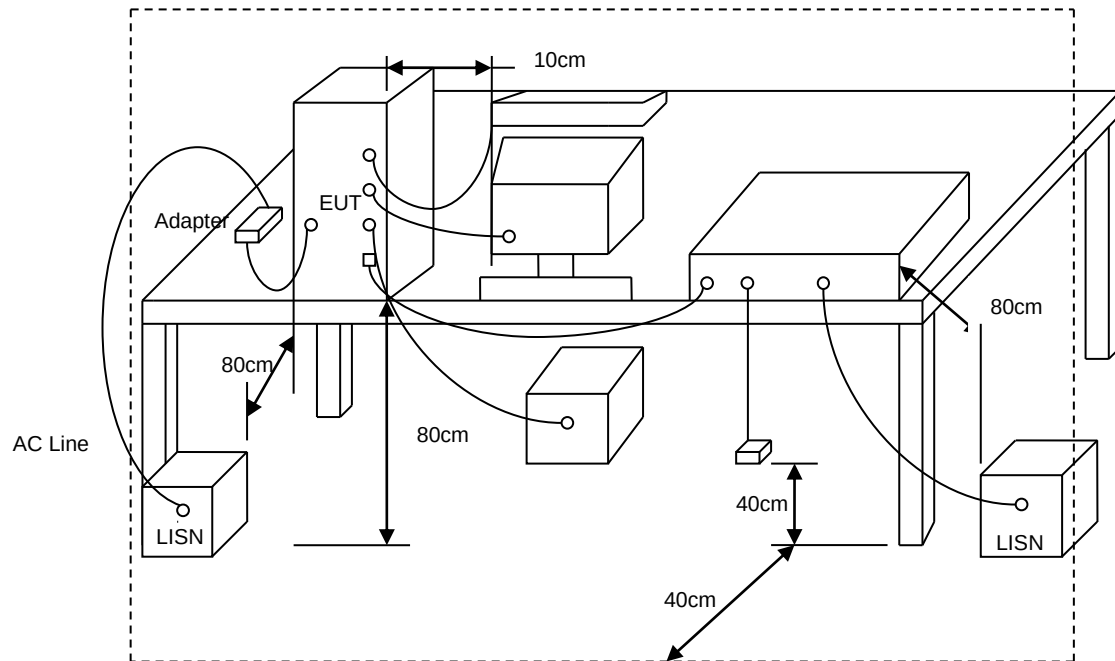
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3 Typical Test Setup

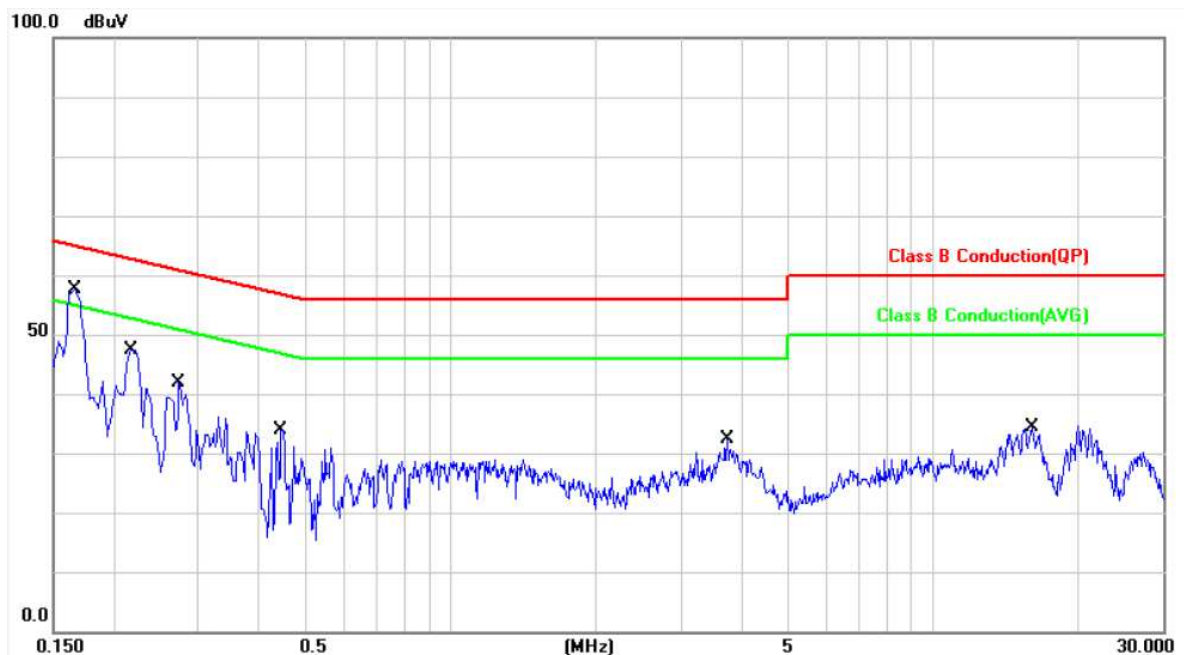




5.4 Test Result and Data

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	0.1660	9.98	45.99	55.97	65.15	-9.18	QP	P
2	0.1660	9.98	34.34	44.32	55.15	-10.83	AVG	P
3	0.2180	9.97	36.98	46.95	62.89	-15.94	QP	P
4	0.2180	9.97	23.73	33.70	52.89	-19.19	AVG	P
5	0.2740	9.97	28.89	38.86	60.99	-22.13	QP	P
6	0.2740	9.97	15.18	25.15	50.99	-25.84	AVG	P
7	0.4460	9.97	19.90	29.87	56.95	-27.08	QP	P
8	0.4460	9.97	8.96	18.93	46.95	-28.02	AVG	P
9	3.7540	10.14	15.22	25.36	56.00	-30.64	QP	P
10	3.7540	10.14	7.67	17.81	46.00	-28.19	AVG	P
11	16.1180	10.42	20.36	30.78	60.00	-29.22	QP	P
12	16.1180	10.42	17.31	27.73	50.00	-22.27	AVG	P

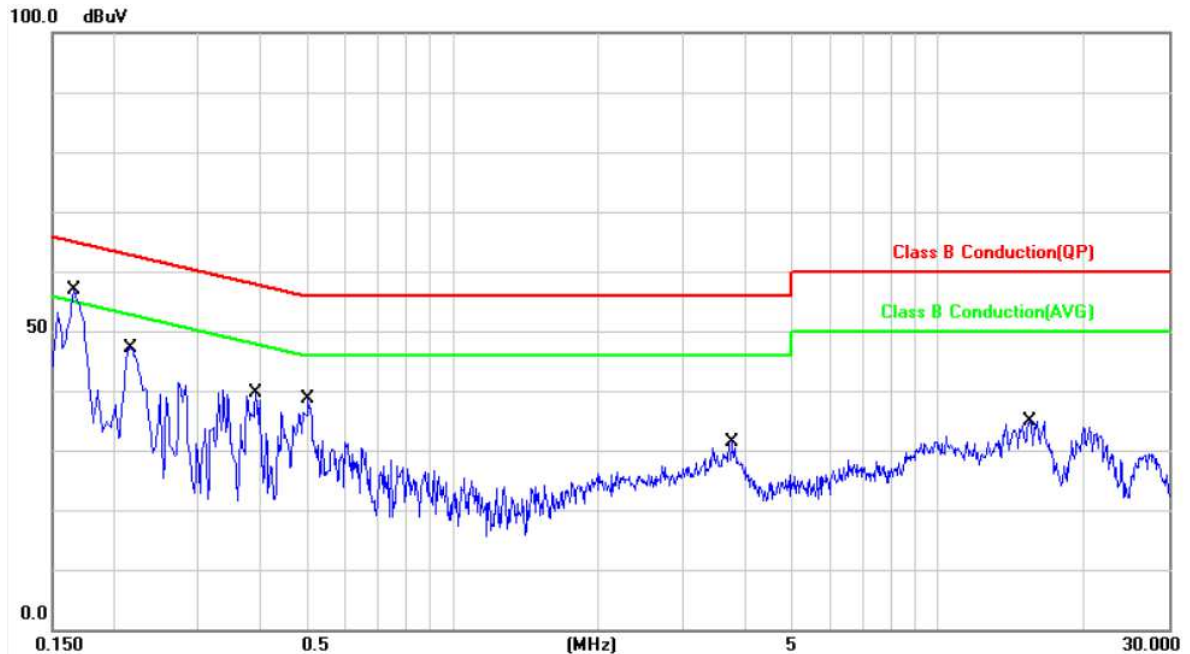
Note: Level = Reading + Factor

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	0.1660	9.98	45.44	55.42	65.15	-9.73	QP	P
2	0.1660	9.98	34.86	44.84	55.15	-10.31	AVG	P
3	0.2180	9.98	37.49	47.47	62.89	-15.42	QP	P
4	0.2180	9.98	25.05	35.03	52.89	-17.86	AVG	P
5	0.3940	9.94	26.17	36.11	57.98	-21.87	QP	P
6	0.3940	9.94	17.78	27.72	47.98	-20.26	AVG	P
7	0.5060	9.95	25.95	35.90	56.00	-20.10	QP	P
8	0.5060	9.95	17.73	27.68	46.00	-18.32	AVG	P
9	3.7860	10.13	16.43	26.56	56.00	-29.44	QP	P
10	3.7860	10.13	8.53	18.66	46.00	-27.34	AVG	P
11	15.5220	10.47	22.42	32.89	60.00	-27.11	QP	P
12	15.5220	10.47	19.04	29.51	50.00	-20.49	AVG	P

Note: Level = Reading + Factor

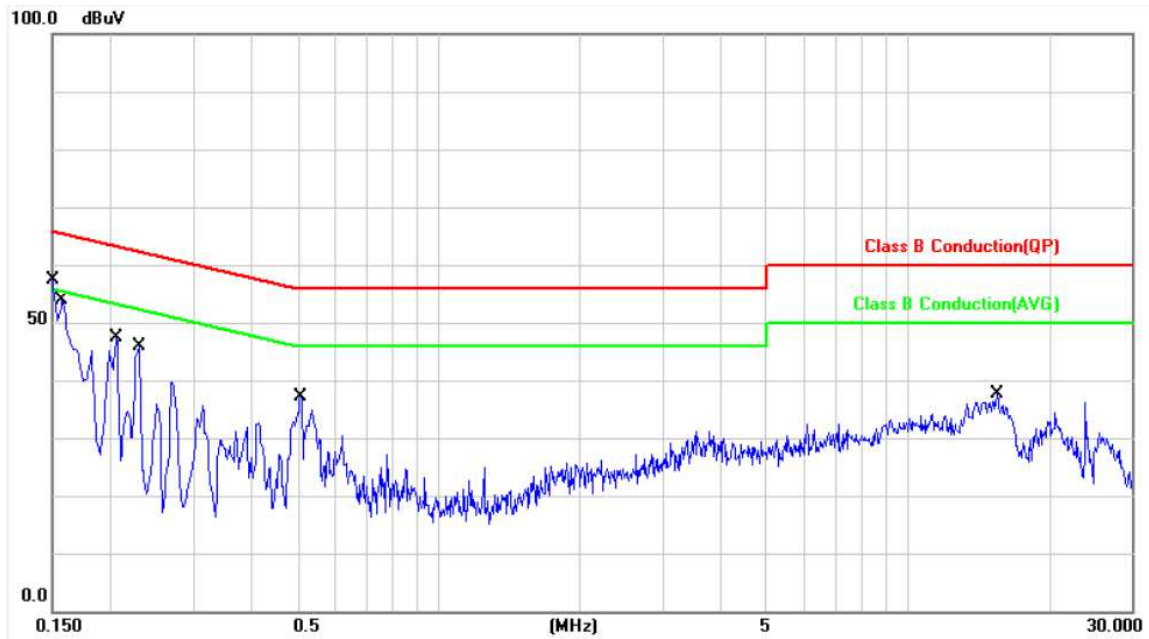
Margin = Level – Limit

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	: 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	0.1500	9.98	44.43	54.41	65.99	-11.58	QP	P
2	0.1500	9.98	29.58	39.56	55.99	-16.43	AVG	P
3	0.1580	9.98	43.28	53.26	65.56	-12.30	QP	P
4	0.1580	9.98	29.03	39.01	55.56	-16.55	AVG	P
5	0.2060	9.97	30.43	40.40	63.36	-22.96	QP	P
6	0.2060	9.97	12.13	22.10	53.36	-31.26	AVG	P
7	0.2300	9.97	34.23	44.20	62.45	-18.25	QP	P
8	0.2300	9.97	22.35	32.32	52.45	-20.13	AVG	P
9	0.5100	9.98	24.04	34.02	56.00	-21.98	QP	P
10	0.5100	9.98	15.80	25.78	46.00	-20.22	AVG	P
11	15.5220	10.39	24.95	35.34	60.00	-24.66	QP	P
12	15.5220	10.39	21.95	32.34	50.00	-17.66	AVG	P

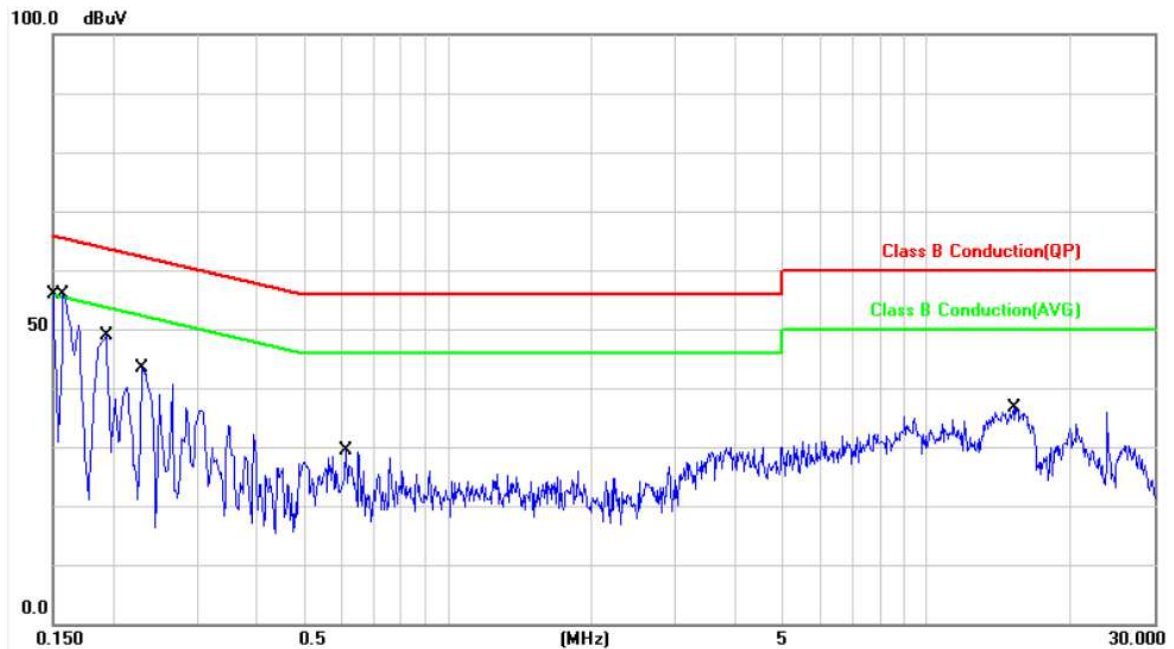
Note: Level = Reading + Factor

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	0.1500	9.98	44.21	54.19	65.99	-11.80	QP	P
2	0.1500	9.98	28.39	38.37	55.99	-17.62	AVG	P
3	0.1582	9.98	42.81	52.79	65.55	-12.76	QP	P
4	0.1582	9.98	27.26	37.24	55.55	-18.31	AVG	P
5	0.1940	9.98	37.83	47.81	63.86	-16.05	QP	P
6	0.1940	9.98	24.31	34.29	53.86	-19.57	AVG	P
7	0.2300	9.97	33.10	43.07	62.45	-19.38	QP	P
8	0.2300	9.97	19.16	29.13	52.45	-23.32	AVG	P
9	0.6140	9.95	13.23	23.18	56.00	-32.82	QP	P
10	0.6140	9.95	6.98	16.93	46.00	-29.07	AVG	P
11	15.2420	10.46	24.01	34.47	60.00	-25.53	QP	P
12	15.2420	10.46	20.96	31.42	50.00	-18.58	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

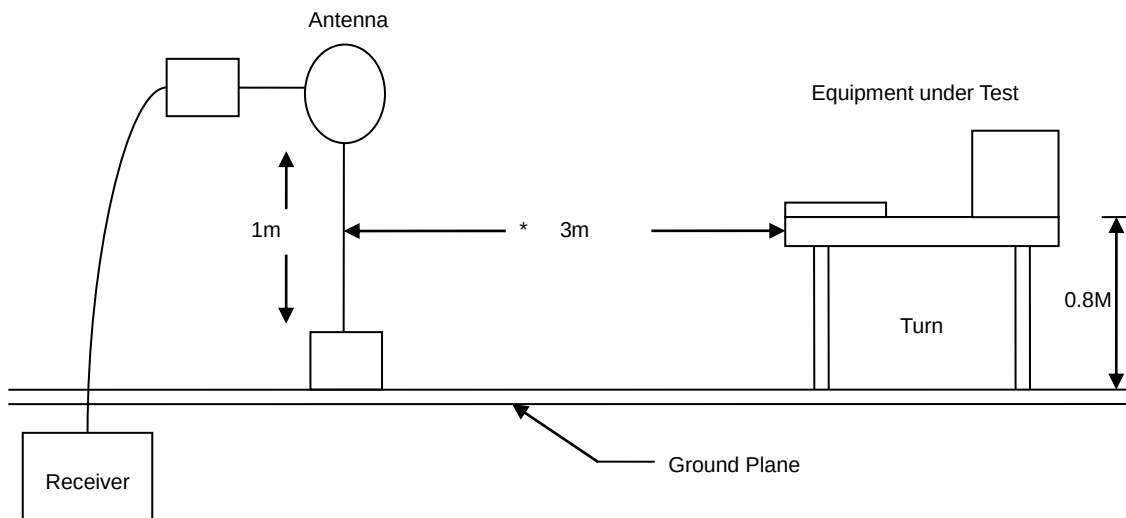
6.2 Test Procedures

- 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.

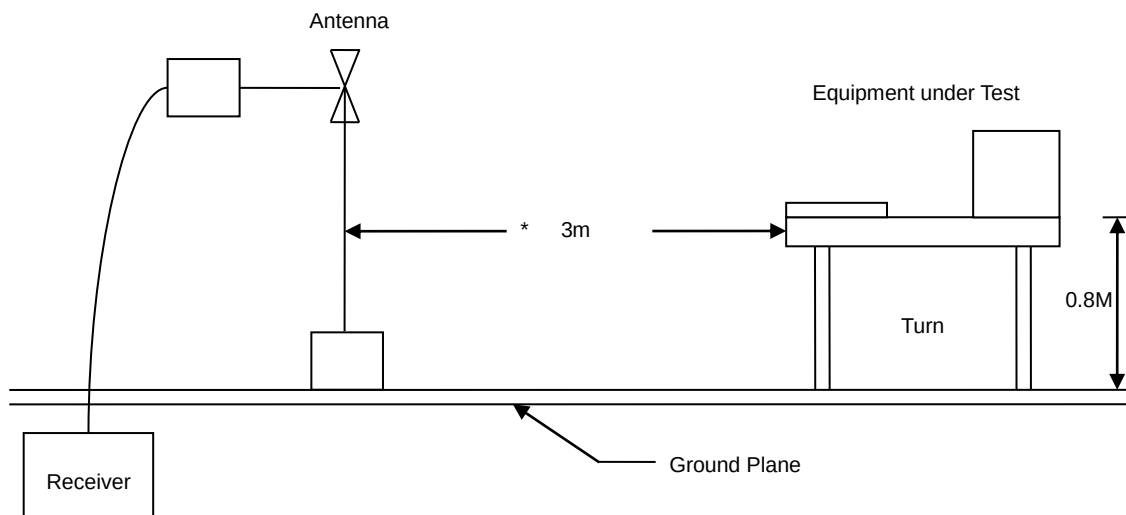


6.3 Typical Test Setup

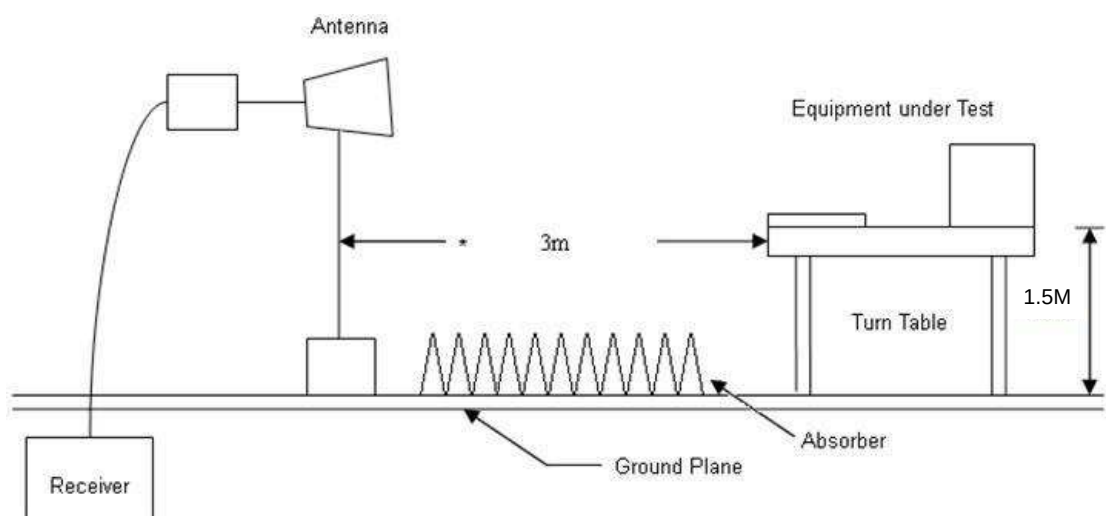
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





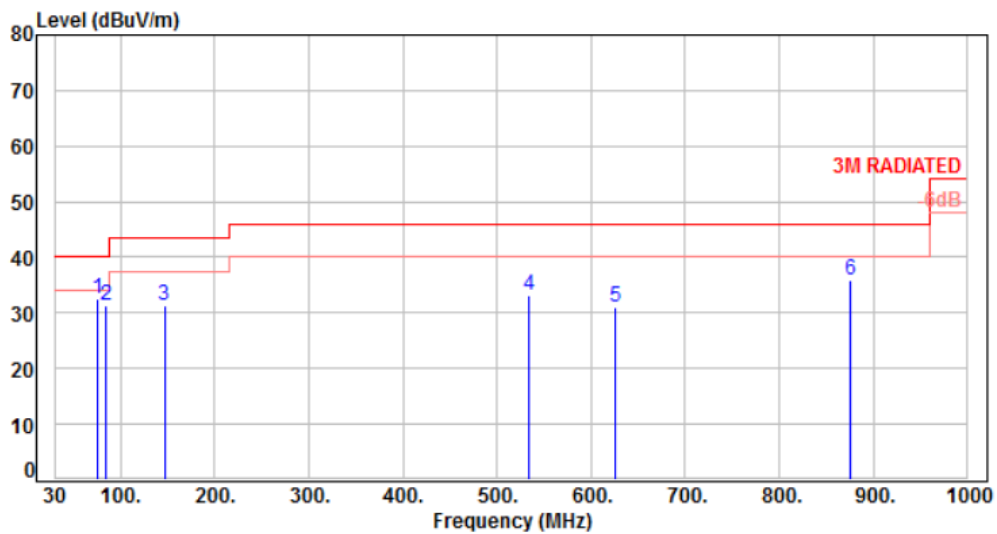
6.4 Test Result and Data (9KHz ~ 30MHz)

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	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	74.62	-13.59	46.23	32.64	40.00	-7.36	Peak	400	0	P
2	84.32	-15.47	46.95	31.48	40.00	-8.52	Peak	400	0	P
3	146.40	-10.15	41.37	31.22	43.50	-12.28	Peak	400	0	P
4	534.40	-3.57	36.77	33.20	46.00	-12.80	Peak	400	0	P
5	625.58	-1.70	32.73	31.03	46.00	-14.97	Peak	400	0	P
6	875.84	1.87	34.13	36.00	46.00	-10.00	Peak	400	0	P

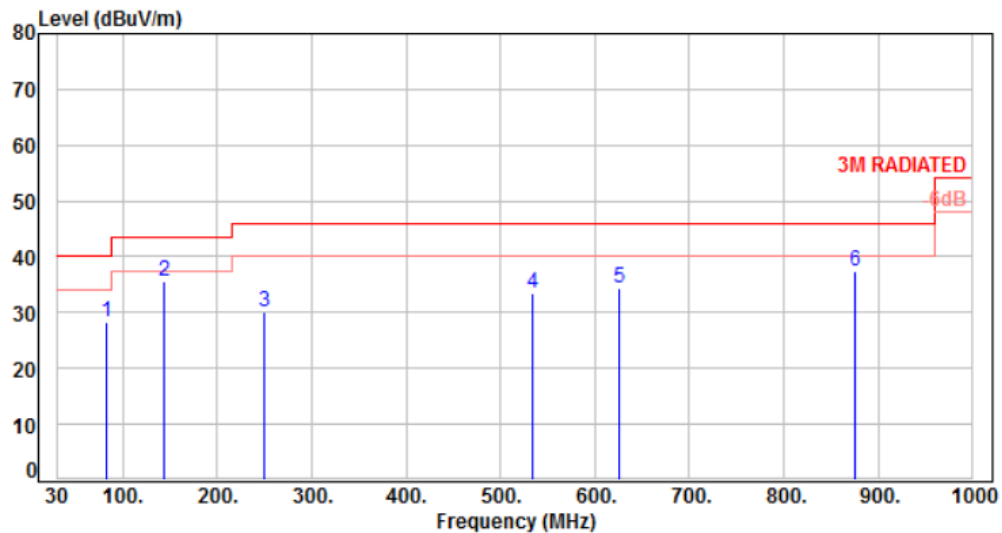
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	82.38	-15.21	43.40	28.19	40.00	-11.81	Peak	400	0	P
2	144.46	-10.21	45.82	35.61	43.50	-7.89	QP	126	312	P
3	249.22	-11.00	41.06	30.06	46.00	-15.94	Peak	400	0	P
4	534.40	-3.57	36.99	33.42	46.00	-12.58	Peak	400	0	P
5	625.58	-1.70	36.09	34.39	46.00	-11.61	Peak	400	0	P
6	875.84	1.87	35.69	37.56	46.00	-8.44	Peak	400	0	P

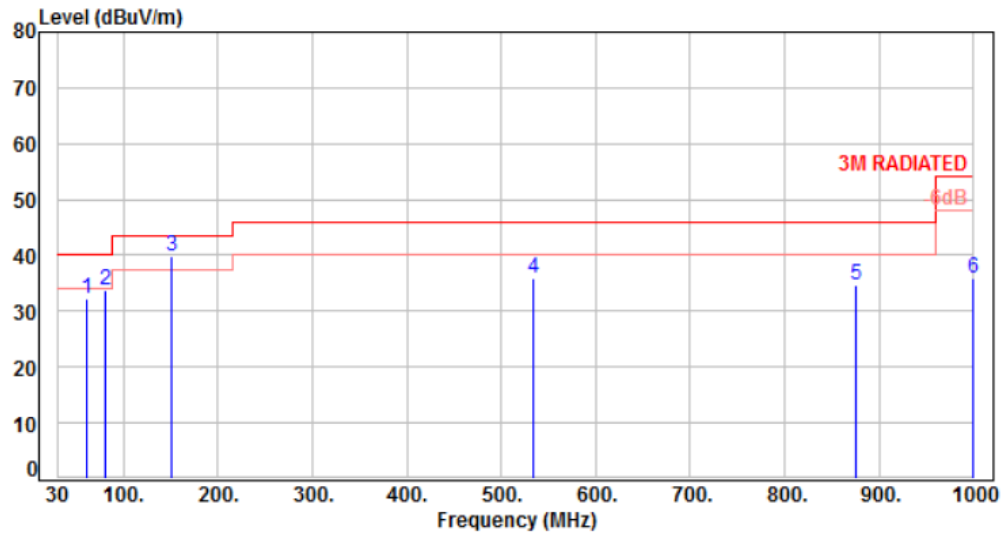
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	61.04	-10.67	42.84	32.17	40.00	-7.83	QP	100	262	P
2	80.44	-14.95	48.80	33.85	40.00	-6.15	QP	100	128	P
3	150.28	20.86	19.03	39.89	43.50	-3.61	Peak	200	0	P
4	534.40	26.85	9.19	36.04	46.00	-9.96	Peak	200	0	P
5	875.84	31.91	2.62	34.53	46.00	-11.47	Peak	200	0	P
6	1000.00	33.39	2.60	35.99	54.00	-18.01	Peak	200	0	P

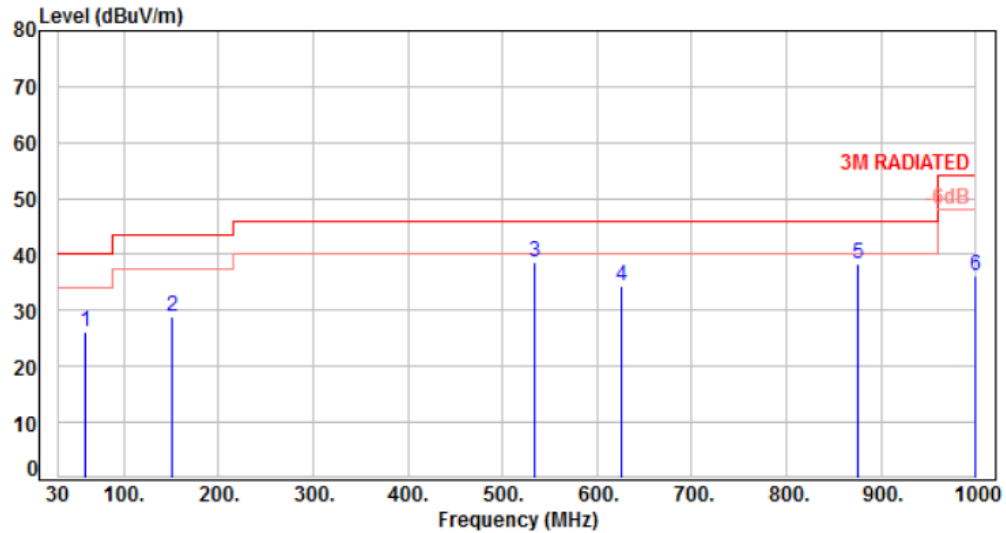
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	59.10	20.47	5.58	26.05	40.00	-13.95	Peak	400	0	P
2	150.28	20.86	8.10	28.96	43.50	-14.54	Peak	400	0	P
3	534.40	26.85	11.77	38.62	46.00	-7.38	Peak	400	0	P
4	625.58	28.68	5.82	34.50	46.00	-11.50	Peak	400	0	P
5	875.84	31.91	6.35	38.26	46.00	-7.74	Peak	400	0	P
6	1000.00	33.39	2.81	36.20	54.00	-17.80	Peak	400	0	P

Note: Level=Reading+Factor

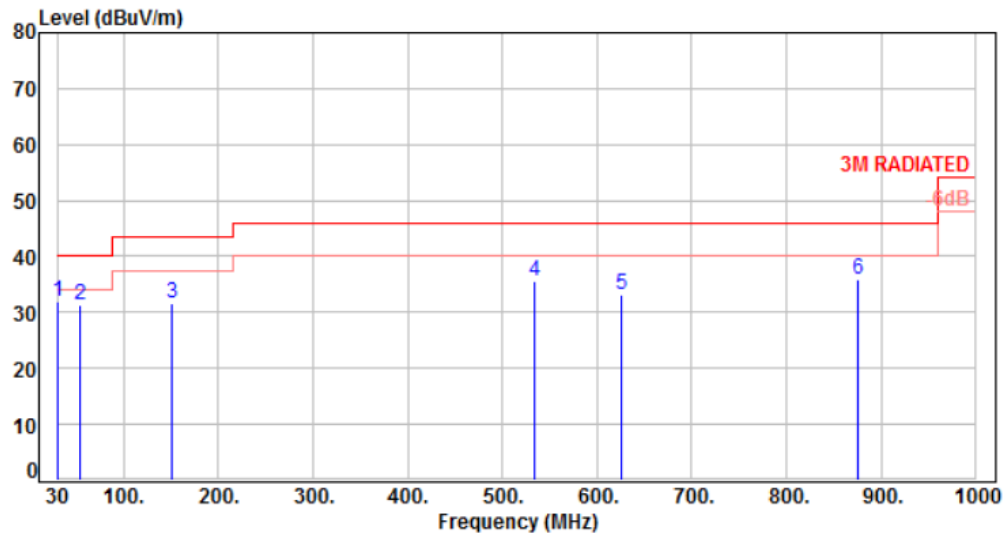
Margin=Level-Limit

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	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



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	42.68	31.95	40.00	-8.05	Peak	200	0	P
2	53.28	-9.96	41.22	31.26	40.00	-8.74	Peak	200	0	P
3	150.28	-10.03	41.80	31.77	43.50	-11.73	Peak	200	0	P
4	534.40	-3.57	39.26	35.69	46.00	-10.31	Peak	200	0	P
5	625.58	-1.70	34.87	33.17	46.00	-12.83	Peak	200	0	P
6	875.84	1.87	34.09	35.96	46.00	-10.04	Peak	200	0	P

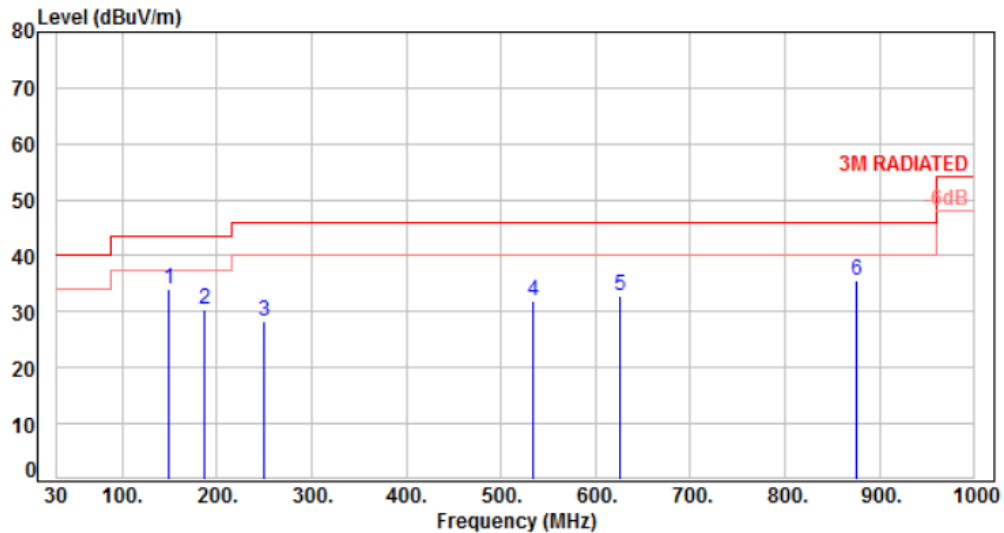
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	148.34	-10.09	44.25	34.16	43.50	-9.34	Peak	100	0	P
2	187.14	-11.96	42.25	30.29	43.50	-13.21	Peak	100	0	P
3	249.22	-11.00	39.18	28.18	46.00	-17.82	Peak	100	0	P
4	534.40	-3.57	35.58	32.01	46.00	-13.99	Peak	100	0	P
5	625.58	-1.70	34.55	32.85	46.00	-13.15	Peak	100	0	P
6	875.84	1.87	33.80	35.67	46.00	-10.33	Peak	100	0	P

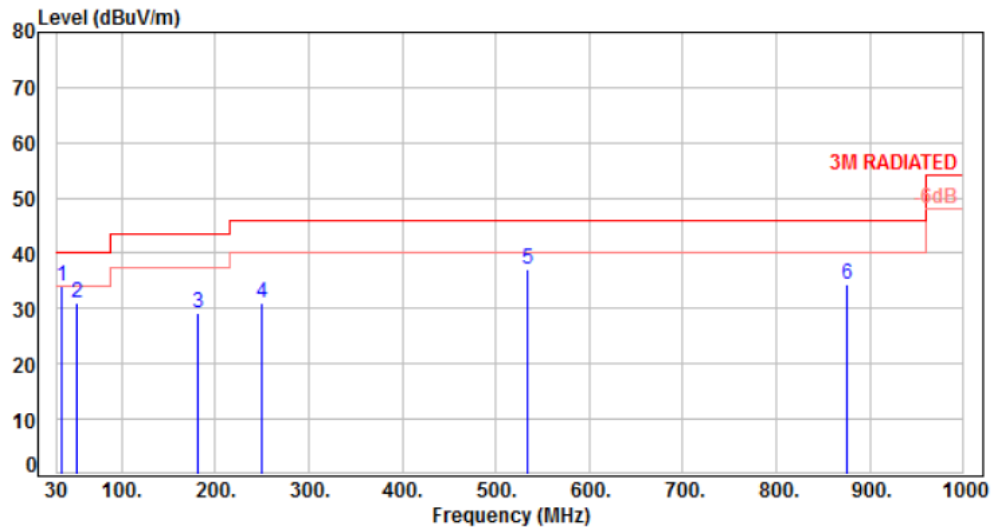
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



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	44.57	34.10	40.00	-5.90	Peak	100	0	P
2	51.34	-9.83	40.96	31.13	40.00	-8.87	Peak	100	0	P
3	181.32	-11.48	40.62	29.14	43.50	-14.36	Peak	100	0	P
4	249.22	-11.00	41.98	30.98	46.00	-15.02	Peak	100	0	P
5	534.40	-3.57	40.81	37.24	46.00	-8.76	Peak	100	0	P
6	875.84	1.87	32.42	34.29	46.00	-11.71	Peak	100	0	P

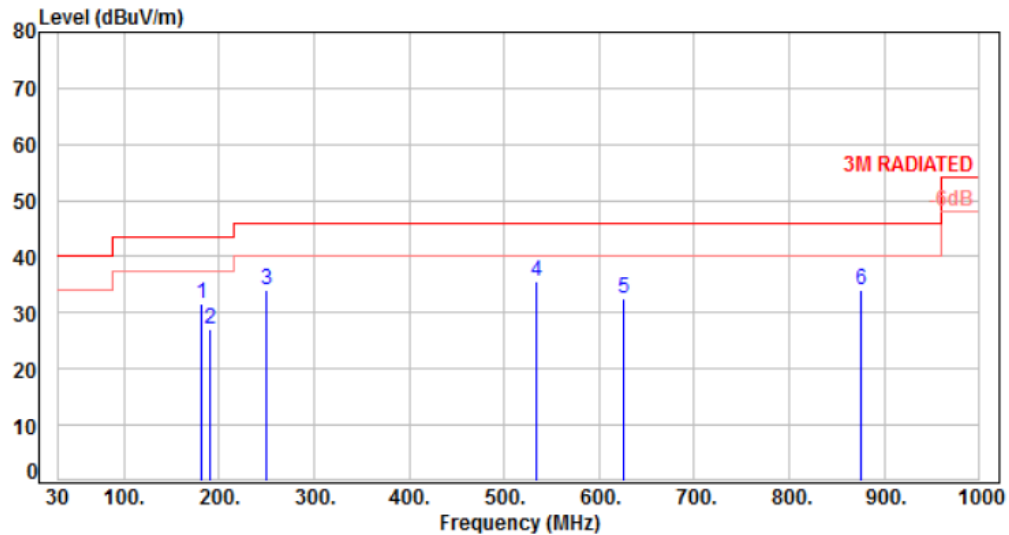
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 25 °C
Test Date	: Dec. 20, 2016	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	181.32	-11.48	43.15	31.67	43.50	-11.83	Peak	200	0	P
2	191.02	-12.24	39.36	27.12	43.50	-16.38	Peak	200	0	P
3	249.22	-11.00	45.02	34.02	46.00	-11.98	Peak	200	0	P
4	534.40	-3.57	39.27	35.70	46.00	-10.30	Peak	200	0	P
5	625.58	-1.70	34.28	32.58	46.00	-13.42	Peak	200	0	P
6	875.84	1.87	32.31	34.18	46.00	-11.82	Peak	200	0	P

Note: Level=Reading+Factor

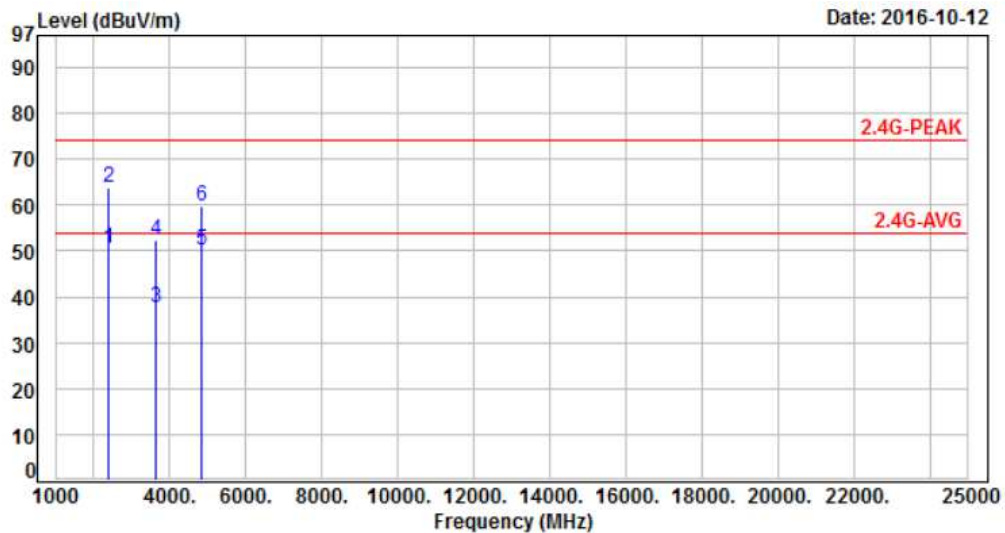
Margin=Level-Limit

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	: Oct. 12, 2016	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	-0.91	51.56	50.65	54.00	-3.35	Average	100	154	P
2	2390.00	-0.91	64.74	63.83	74.00	-10.17	Peak	100	154	P
3	3618.00	4.74	32.82	37.56	54.00	-16.44	Average	152	224	P
4	3618.00	4.74	47.82	52.56	74.00	-21.44	Peak	152	224	P
5	4824.00	8.60	41.51	50.11	54.00	-3.89	Average	103	130	P
6	4824.00	8.60	51.24	59.84	74.00	-14.16	Peak	103	130	P

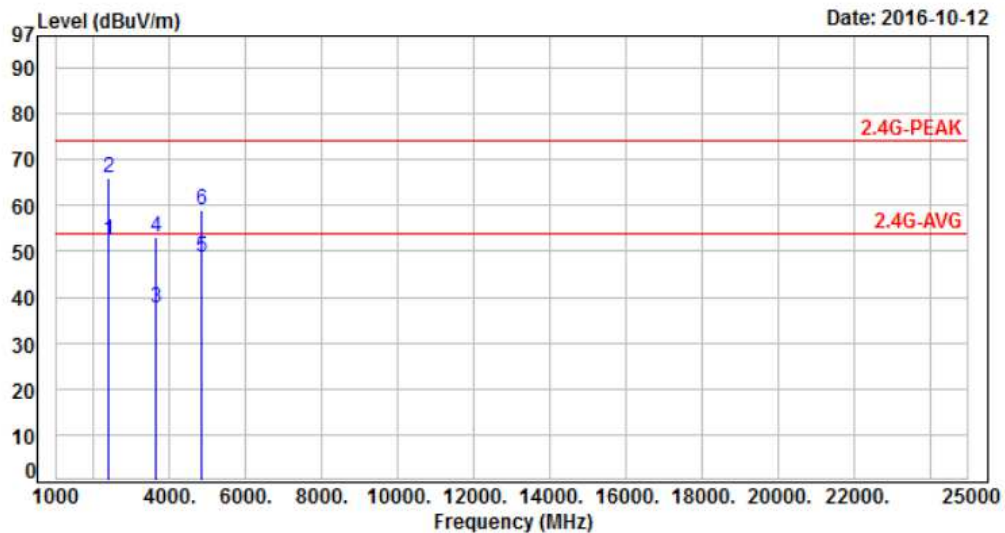
Note: Level=Reading+Factor

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	: Oct. 12, 2016	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	-0.91	53.43	52.52	54.00	-1.48	Average	204	129	P
2	2390.00	-0.91	66.82	65.91	74.00	-8.09	Peak	204	129	P
3	3618.00	4.74	32.96	37.70	54.00	-16.30	Average	212	156	P
4	3618.00	4.74	48.55	53.29	74.00	-20.71	Peak	212	156	P
5	4824.00	8.60	39.98	48.58	54.00	-5.42	Average	100	122	P
6	4824.00	8.60	50.57	59.17	74.00	-14.83	Peak	100	122	P

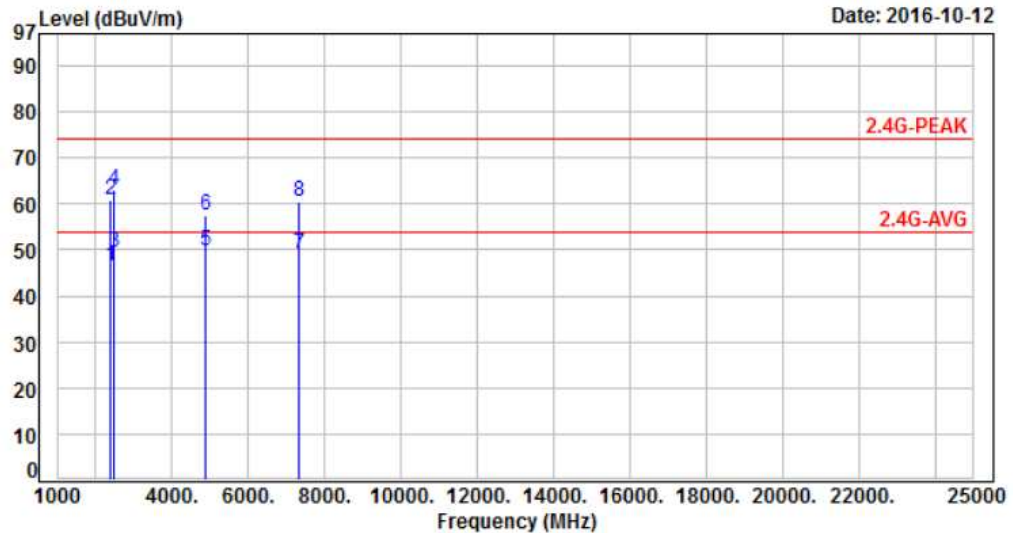
Note: Level=Reading+Factor

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	: Oct. 12, 2016	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	-0.91	47.55	46.64	54.00	-7.36	Average	141	149	P
2	2390.00	-0.91	61.70	60.79	74.00	-13.21	Peak	141	149	P
3	2483.50	-0.64	50.03	49.39	54.00	-4.61	Average	367	152	P
4	2483.50	-0.64	63.65	63.01	74.00	-10.99	Peak	367	152	P
5	4874.00	8.83	40.95	49.78	54.00	-4.22	Average	100	141	P
6	4874.00	8.83	48.83	57.66	74.00	-16.34	Peak	100	141	P
7	7311.00	13.69	35.46	49.15	54.00	-4.85	Average	116	123	P
8	7311.00	13.69	46.90	60.59	74.00	-13.41	Peak	116	123	P

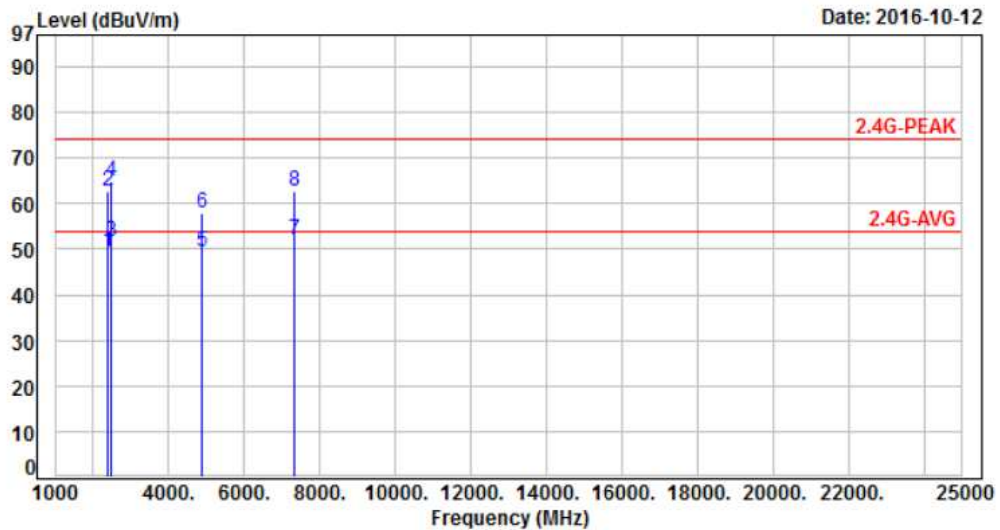
Note: Level=Reading+Factor

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	: Oct. 12, 2016	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	-0.91	50.31	49.40	54.00	-4.60	Average	168	203	P
2	2390.00	-0.91	63.70	62.79	74.00	-11.21	Peak	168	203	P
3	2483.50	-0.64	52.13	51.49	54.00	-2.51	Average	251	214	P
4	2483.50	-0.64	65.57	64.93	74.00	-9.07	Peak	251	214	P
5	4874.00	8.83	40.59	49.42	54.00	-4.58	Average	100	258	P
6	4874.00	8.83	49.20	58.03	74.00	-15.97	Peak	100	258	P
7	7311.00	13.69	38.36	52.05	54.00	-1.95	Average	214	43	P
8	7311.00	13.69	49.05	62.74	74.00	-11.26	Peak	214	43	P

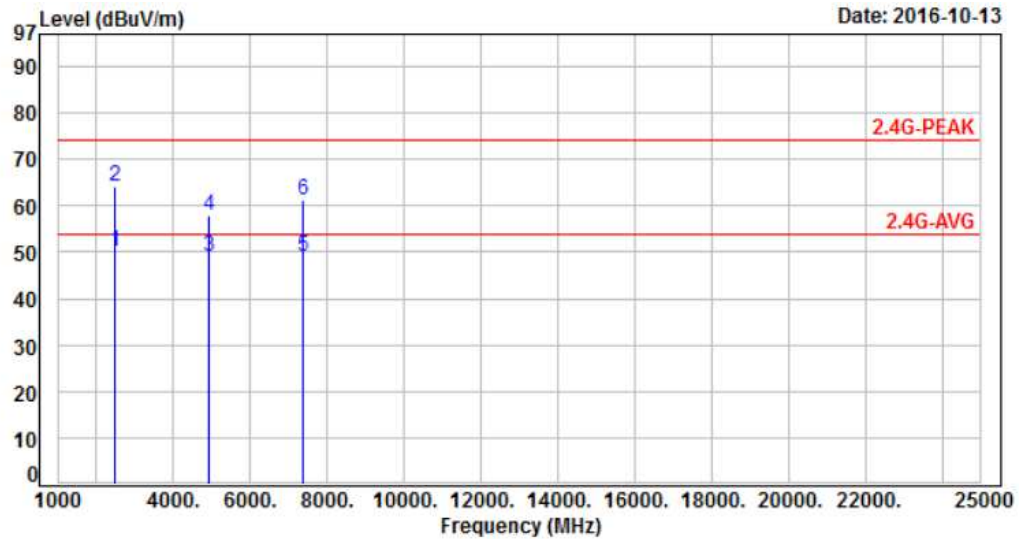
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	50.92	50.28	54.00	-3.72	Average	126	252	P
2	2483.50	-0.64	64.78	64.14	74.00	-9.86	Peak	126	252	P
3	4924.00	9.07	39.87	48.94	54.00	-5.06	Average	110	133	P
4	4924.00	9.07	48.98	58.05	74.00	-15.95	Peak	110	133	P
5	7386.00	13.83	35.30	49.13	54.00	-4.87	Average	107	9	P
6	7386.00	13.83	47.25	61.08	74.00	-12.92	Peak	107	9	P

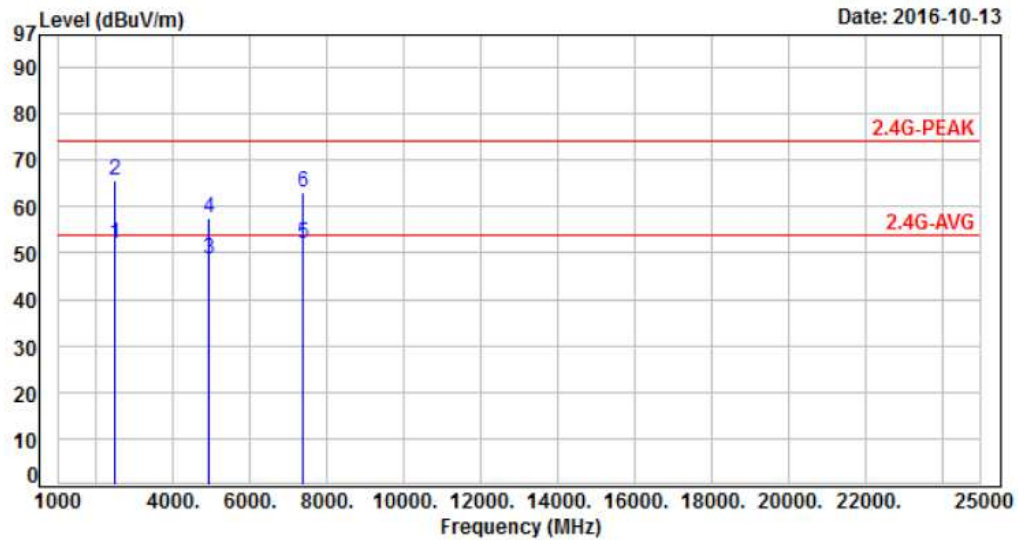
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	52.53	51.89	54.00	-2.11	Average	235	215	P
2	2483.50	-0.64	66.28	65.64	74.00	-8.36	Peak	235	215	P
3	4924.00	9.07	39.44	48.51	54.00	-5.49	Average	116	252	P
4	4924.00	9.07	48.55	57.62	74.00	-16.38	Peak	116	252	P
5	7386.00	13.83	38.29	52.12	54.00	-1.88	Average	210	40	P
6	7386.00	13.83	49.25	63.08	74.00	-10.92	Peak	210	40	P

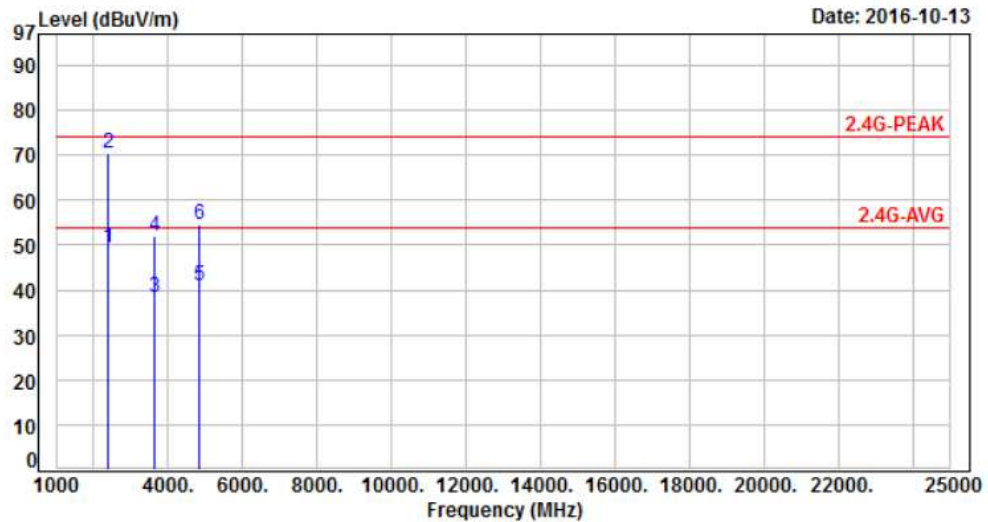
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	50.24	49.33	54.00	-4.67	Average	355	156	P
2	2390.00	-0.91	71.42	70.51	74.00	-3.49	Peak	355	156	P
3	3618.00	4.74	33.51	38.25	54.00	-15.75	Average	164	249	P
4	3618.00	4.74	47.19	51.93	74.00	-22.07	Peak	164	249	P
5	4824.00	8.60	32.38	40.98	54.00	-13.02	Average	106	162	P
6	4824.00	8.60	46.13	54.73	74.00	-19.27	Peak	106	242	P

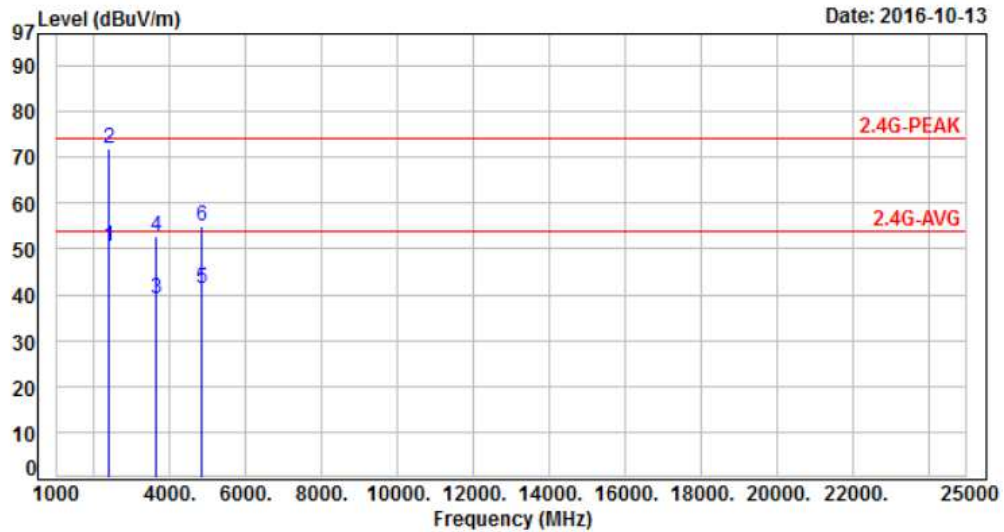
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	51.44	50.53	54.00	-3.47	Average	170	202	P
2	2390.00	-0.91	72.98	72.07	74.00	-1.93	Peak	170	202	P
3	3618.00	4.74	34.54	39.28	54.00	-14.72	Average	125	312	P
4	3618.00	4.74	48.14	52.88	74.00	-21.12	Peak	125	312	P
5	4824.00	8.60	32.83	41.43	54.00	-12.57	Average	368	162	P
6	4824.00	8.60	46.37	54.97	74.00	-19.03	Peak	368	162	P

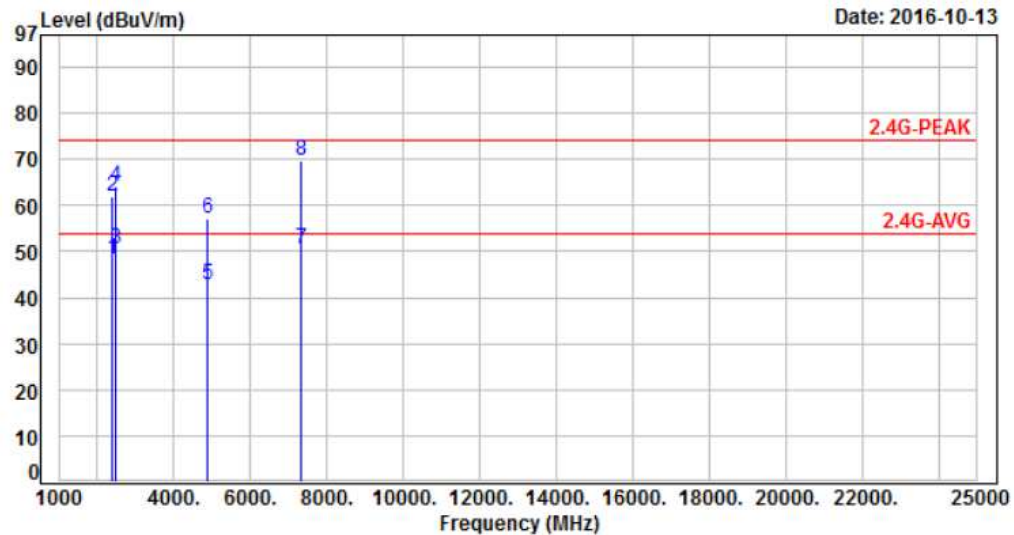
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06	Temperature	: 25 °C
Test Date	: Oct. 13, 2016	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	-0.91	49.38	48.47	54.00	-5.53	Average	148	169	P
2	2390.00	-0.91	62.93	62.02	74.00	-11.98	Peak	148	169	P
3	2483.50	-0.64	51.23	50.59	54.00	-3.41	Average	232	183	P
4	2483.50	-0.64	64.83	64.19	74.00	-9.81	Peak	232	183	P
5	4874.00	8.83	33.99	42.82	54.00	-11.18	Average	126	312	P
6	4874.00	8.83	48.20	57.03	74.00	-16.97	Peak	126	312	P
7	7311.00	13.69	36.91	50.60	54.00	-3.40	Average	137	148	P
8	7311.00	13.69	56.10	69.79	74.00	-4.21	Peak	137	148	P

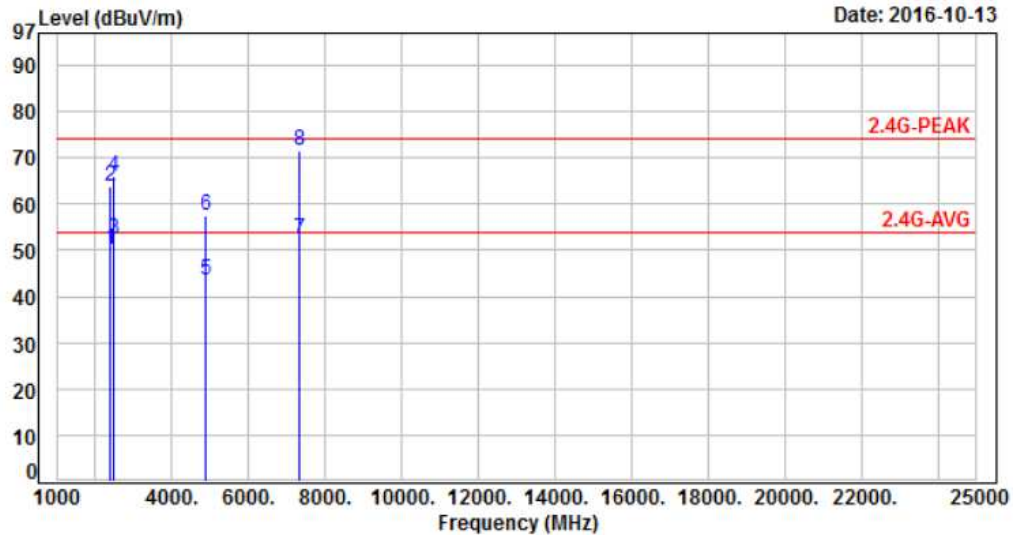
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06	Temperature	: 25 °C
Test Date	: Oct. 13, 2016	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	-0.91	50.95	50.04	54.00	-3.96	Average	246	203	P
2	2390.00	-0.91	64.57	63.66	74.00	-10.34	Peak	246	203	P
3	2483.50	-0.64	52.98	52.34	54.00	-1.66	Average	279	219	P
4	2483.50	-0.64	66.54	65.90	74.00	-8.10	Peak	279	219	P
5	4874.00	8.83	34.52	43.35	54.00	-10.65	Average	100	263	P
6	4874.00	8.83	48.73	57.56	74.00	-16.44	Peak	100	263	P
7	7311.00	13.69	38.50	52.19	54.00	-1.81	Average	188	47	P
8	7311.00	13.69	57.82	71.51	74.00	-2.49	Peak	188	47	P

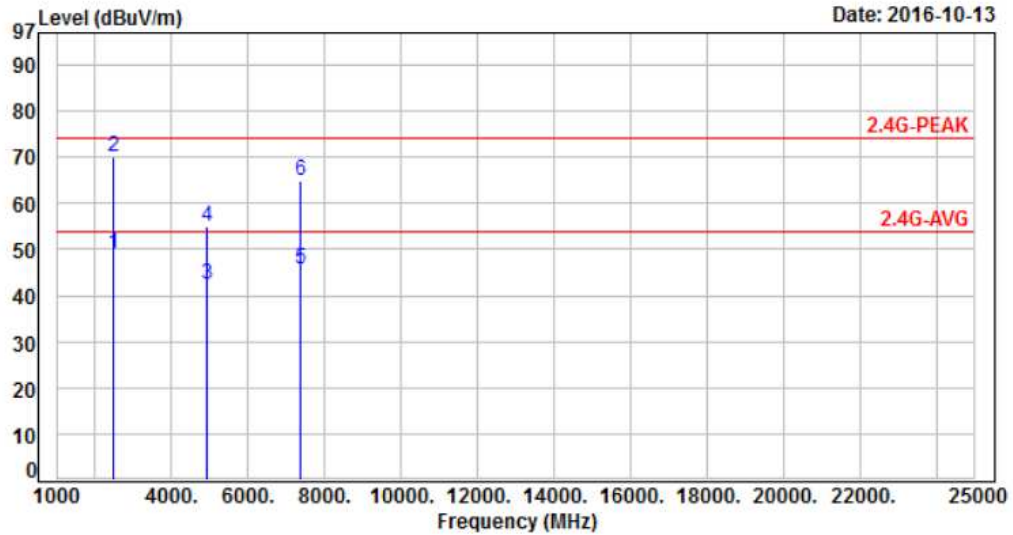
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	49.52	48.88	54.00	-5.12	Average	168	137	P
2	2483.50	-0.64	70.82	70.18	74.00	-3.82	Peak	168	137	P
3	4924.00	9.07	33.43	42.50	54.00	-11.50	Average	125	83	P
4	4924.00	9.07	45.96	55.03	74.00	-18.97	Peak	125	83	P
5	7386.00	13.83	31.82	45.65	54.00	-8.35	Average	133	312	P
6	7386.00	13.83	50.94	64.77	74.00	-9.23	Peak	133	312	P

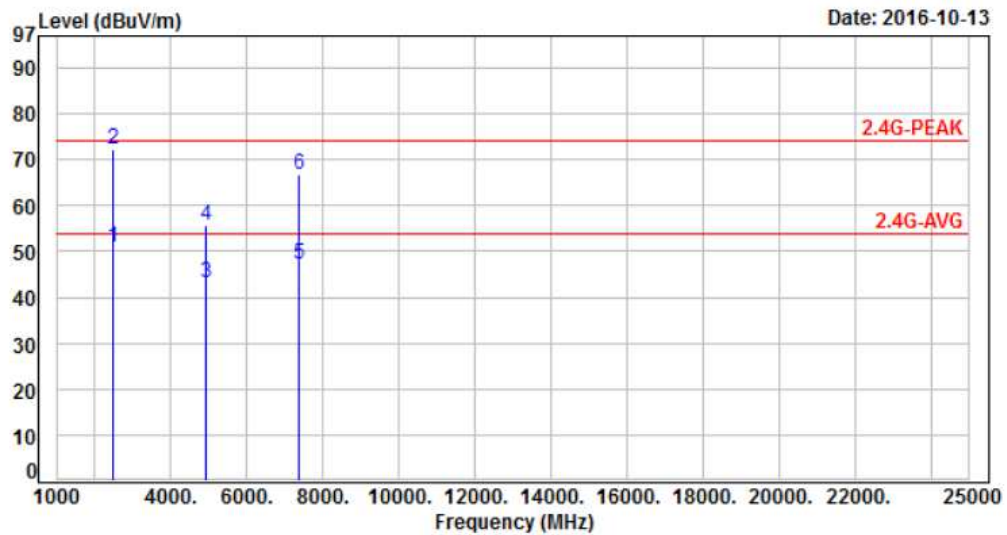
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	51.38	50.74	54.00	-3.26	Average	274	217	P
2	2483.50	-0.64	72.75	72.11	74.00	-1.89	Peak	274	217	P
3	4924.00	9.07	34.15	43.22	54.00	-10.78	Average	198	283	P
4	4924.00	9.07	46.73	55.80	74.00	-18.20	Peak	198	283	P
5	7386.00	13.83	33.50	47.33	54.00	-6.67	Average	195	49	P
6	7386.00	13.83	52.77	66.60	74.00	-7.40	Peak	195	49	P

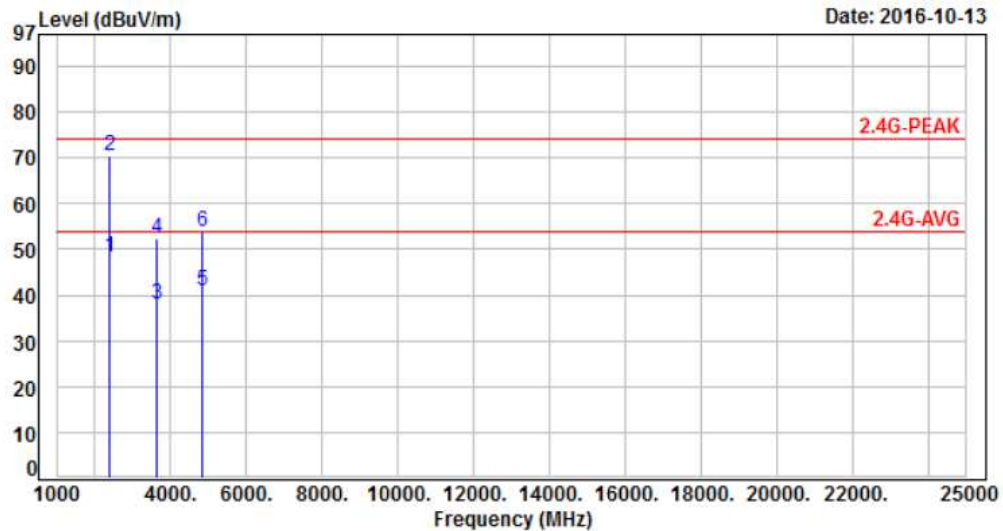
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	49.37	48.46	54.00	-5.54	Average	126	345	P
2	2390.00	-0.91	71.44	70.53	74.00	-3.47	Peak	126	345	P
3	3618.00	4.74	33.23	37.97	54.00	-16.03	Average	105	312	P
4	3618.00	4.74	47.77	52.51	74.00	-21.49	Peak	105	312	P
5	4824.00	8.60	32.45	41.05	54.00	-12.95	Average	212	241	P
6	4824.00	8.60	45.39	53.99	74.00	-20.01	Peak	212	241	P

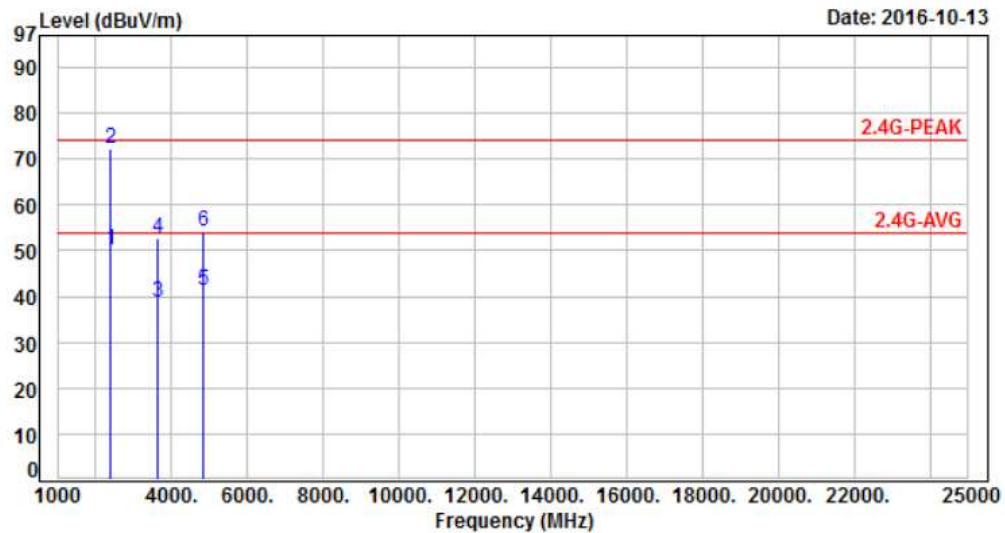
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	51.19	50.28	54.00	-3.72	Average	245	202	P
2	2390.00	-0.91	73.12	72.21	74.00	-1.79	Peak	245	202	P
3	3618.00	4.74	33.84	38.58	54.00	-15.42	Average	138	144	P
4	3618.00	4.74	48.00	52.74	74.00	-21.26	Peak	138	144	P
5	4824.00	8.60	32.88	41.48	54.00	-12.52	Average	102	168	P
6	4824.00	8.60	45.71	54.31	74.00	-19.69	Peak	102	168	P

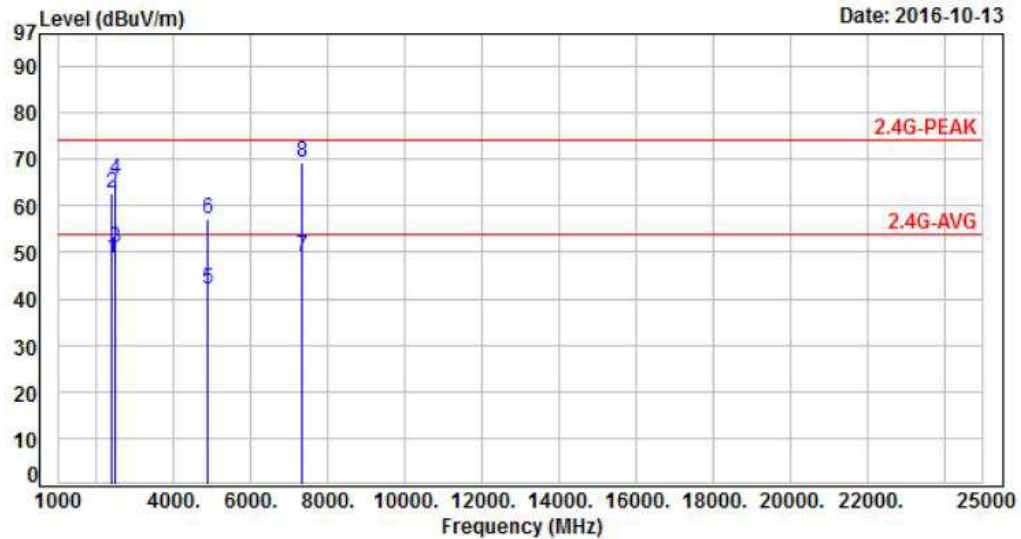
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	49.42	48.51	54.00	-5.49	Average	189	162	P
2	2390.00	-0.91	63.53	62.62	74.00	-11.38	Peak	189	162	P
3	2483.50	-0.64	51.37	50.73	54.00	-3.27	Average	302	226	P
4	2483.50	-0.64	66.41	65.77	74.00	-8.23	Peak	302	226	P
5	4874.00	8.83	33.40	42.23	54.00	-11.77	Average	224	252	P
6	4874.00	8.83	48.49	57.32	74.00	-16.68	Peak	224	252	P
7	7311.00	13.69	35.24	48.93	54.00	-5.07	Average	134	88	P
8	7311.00	13.69	55.61	69.30	74.00	-4.70	Peak	134	88	P

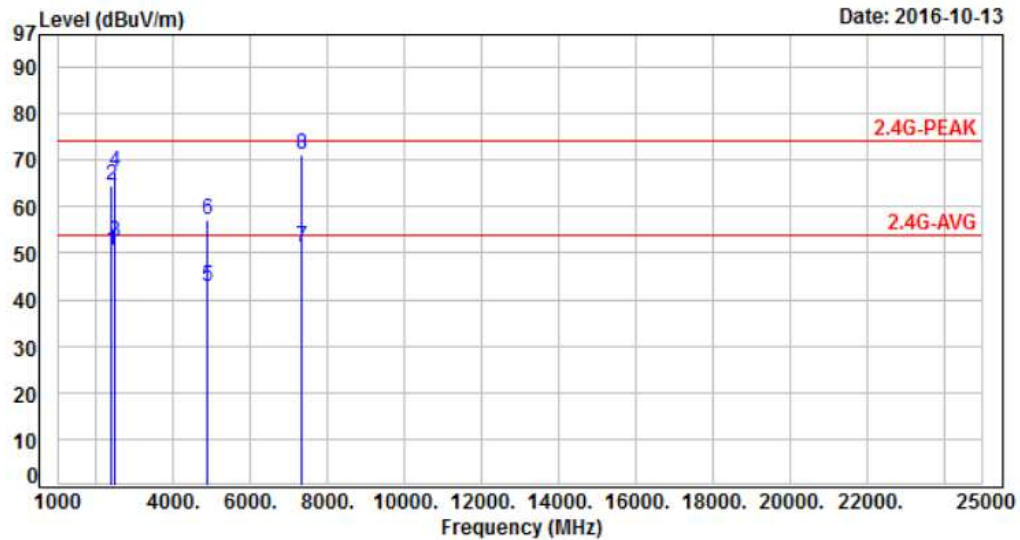
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06	Temperature	: 25 °C
Test Date	: Oct. 13, 2016	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	-0.91	51.27	50.36	54.00	-3.64	Average	200	205	P
2	2390.00	-0.91	65.38	64.47	74.00	-9.53	Peak	200	205	P
3	2483.50	-0.64	53.12	52.48	54.00	-1.52	Average	278	219	P
4	2483.50	-0.64	68.23	67.59	74.00	-6.41	Peak	278	219	P
5	4874.00	8.83	33.81	42.64	54.00	-11.36	Average	101	118	P
6	4874.00	8.83	48.19	57.02	74.00	-16.98	Peak	101	118	P
7	7311.00	13.69	37.51	51.20	54.00	-2.80	Average	186	53	P
8	7311.00	13.69	57.44	71.13	74.00	-2.87	Peak	186	53	P

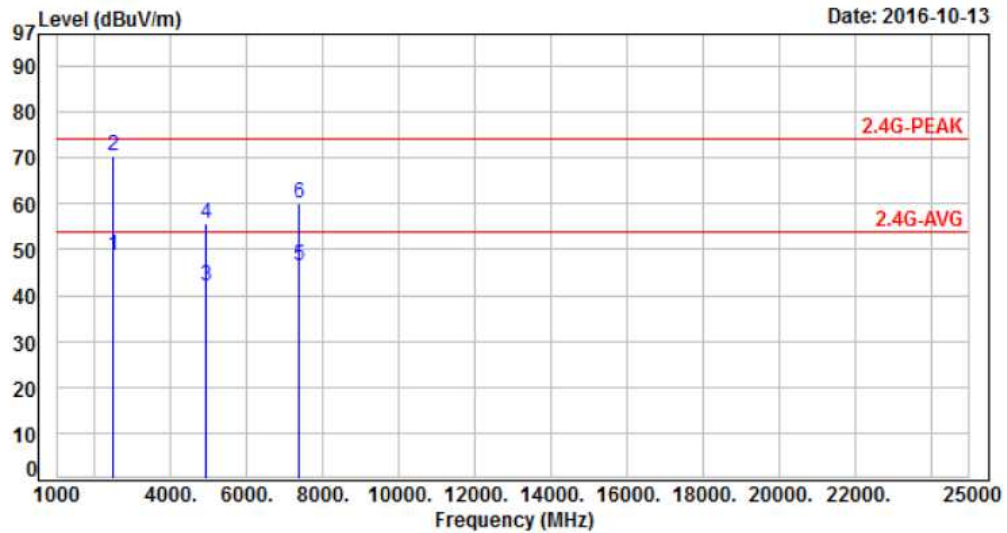
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	49.37	48.73	54.00	-5.27	Average	224	126	P
2	2483.50	-0.64	71.16	70.52	74.00	-3.48	Peak	224	126	P
3	4924.00	9.07	32.89	41.96	54.00	-12.04	Average	242	213	P
4	4924.00	9.07	46.45	55.52	74.00	-18.48	Peak	242	213	P
5	7386.00	13.83	32.80	46.63	54.00	-7.37	Average	103	79	P
6	7386.00	13.83	46.13	59.96	74.00	-14.04	Peak	103	79	P

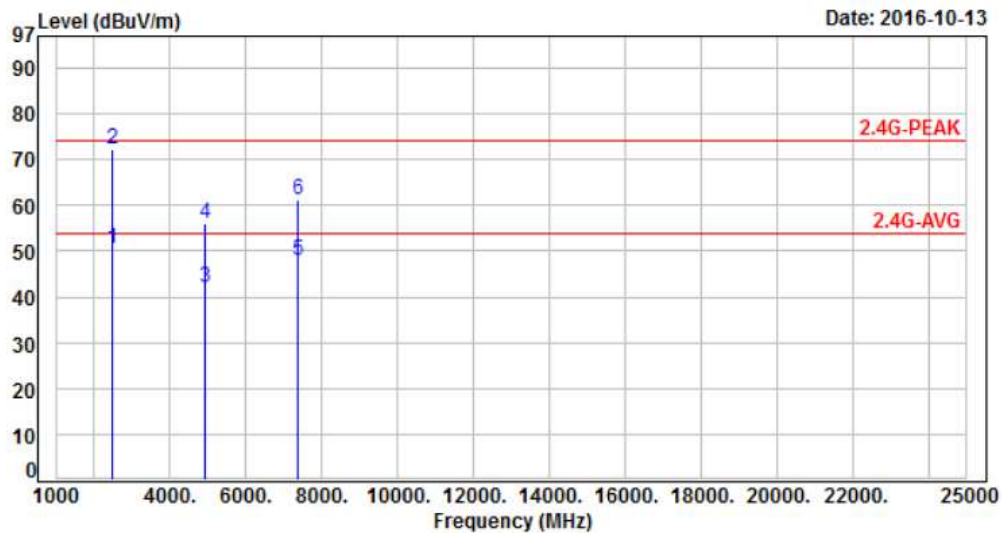
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	51.26	50.62	54.00	-3.38	Average	242	217	P
2	2483.50	-0.64	73.08	72.44	74.00	-1.56	Peak	242	217	P
3	4924.00	9.07	33.12	42.19	54.00	-11.81	Average	169	178	P
4	4924.00	9.07	46.96	56.03	74.00	-17.97	Peak	169	178	P
5	7386.00	13.83	34.05	47.88	54.00	-6.12	Average	100	215	P
6	7386.00	13.83	47.48	61.31	74.00	-12.69	Peak	100	215	P

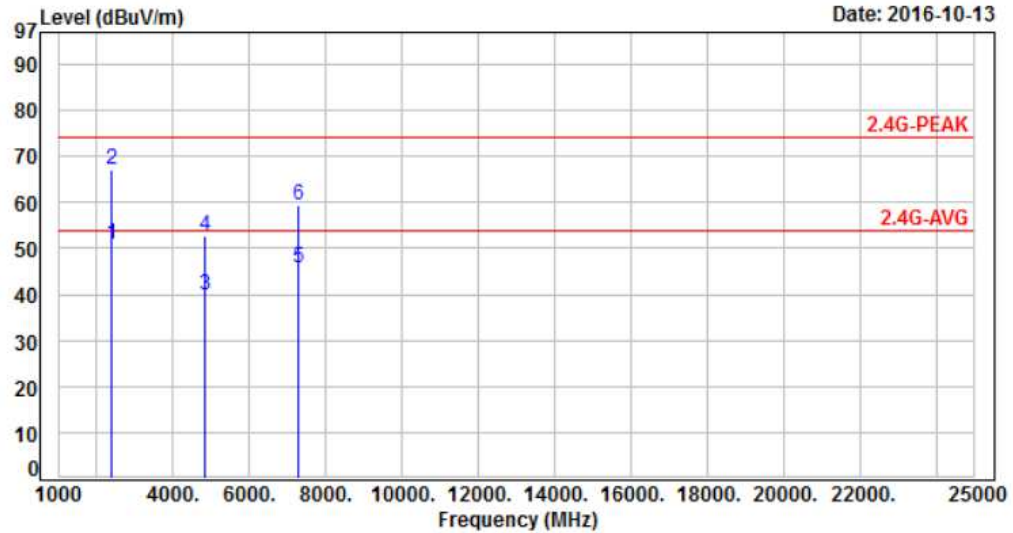
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	51.79	50.88	54.00	-3.12	Average	172	69	P
2	2390.00	-0.91	67.97	67.06	74.00	-6.94	Peak	172	69	P
3	4844.00	8.70	31.12	39.82	54.00	-14.18	Average	302	225	P
4	4844.00	8.70	44.15	52.85	74.00	-21.15	Peak	302	225	P
5	7266.00	13.59	32.25	45.84	54.00	-8.16	Average	126	212	P
6	7266.00	13.59	45.61	59.20	74.00	-14.80	Peak	126	212	P

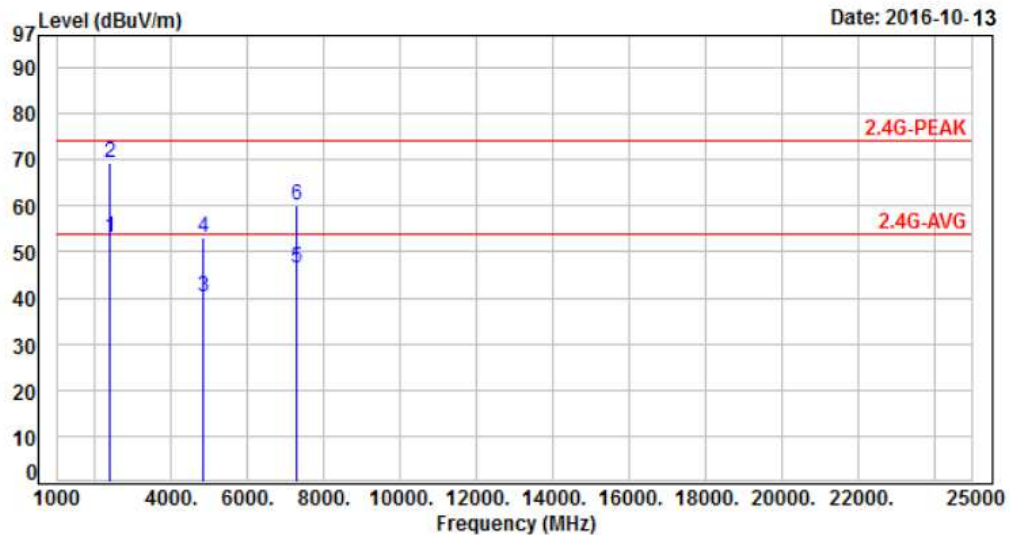
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	53.89	52.98	54.00	-1.02	Average	353	31	P
2	2390.00	-0.91	70.32	69.41	74.00	-4.59	Peak	353	31	P
3	4844.00	8.70	31.51	40.21	54.00	-13.79	Average	100	0	P
4	4844.00	8.70	44.54	53.24	74.00	-20.76	Peak	100	0	P
5	7266.00	13.59	33.01	46.60	54.00	-7.40	Average	100	250	P
6	7266.00	13.59	46.49	60.08	74.00	-13.92	Peak	100	250	P

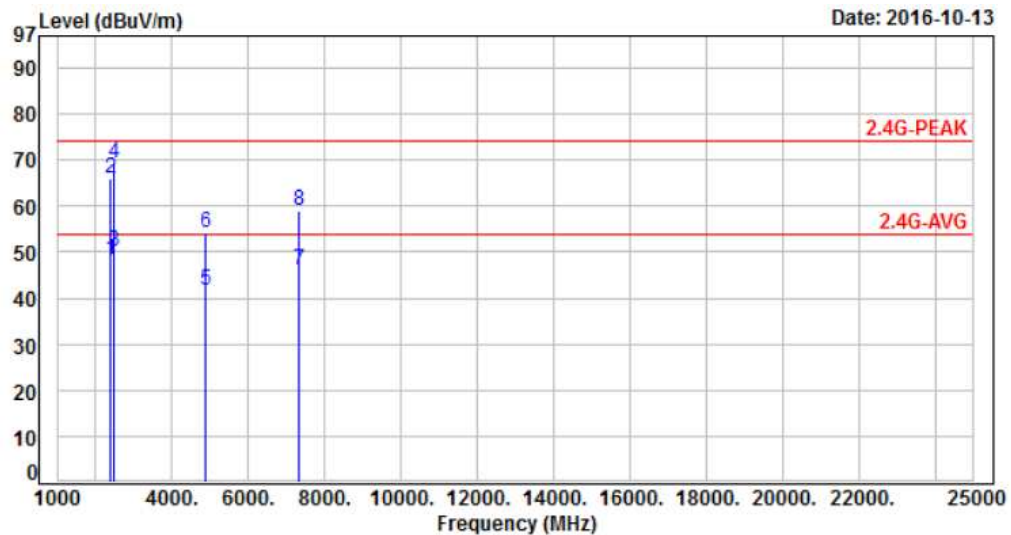
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	49.26	48.35	54.00	-5.65	Average	137	218	P
2	2390.00	-0.91	66.76	65.85	74.00	-8.15	Peak	137	218	P
3	2483.50	-0.64	50.79	50.15	54.00	-3.85	Average	296	137	P
4	2483.50	-0.64	69.83	69.19	74.00	-4.81	Peak	296	137	P
5	4874.00	8.83	32.90	41.73	54.00	-12.27	Average	105	166	P
6	4874.00	8.83	45.33	54.16	74.00	-19.84	Peak	105	166	P
7	7311.00	13.69	32.34	46.03	54.00	-7.97	Average	128	149	P
8	7311.00	13.69	45.14	58.83	74.00	-15.17	Peak	128	149	P

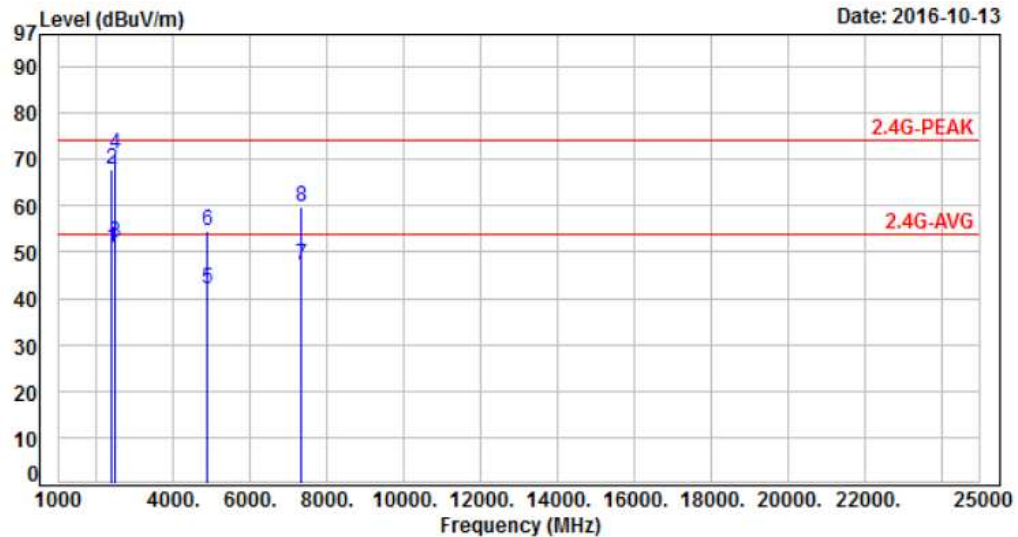
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.91	51.64	50.73	54.00	-3.27	Average	218	204	P
2	2390.00	-0.91	68.88	67.97	74.00	-6.03	Peak	218	204	P
3	2483.50	-0.64	52.65	52.01	54.00	-1.99	Average	249	216	P
4	2483.50	-0.64	71.80	71.16	74.00	-2.84	Peak	249	216	P
5	4874.00	8.83	33.24	42.07	54.00	-11.93	Average	100	152	P
6	4874.00	8.83	45.80	54.63	74.00	-19.37	Peak	100	152	P
7	7311.00	13.69	33.65	47.34	54.00	-6.66	Average	103	49	P
8	7311.00	13.69	46.22	59.91	74.00	-14.09	Peak	103	49	P

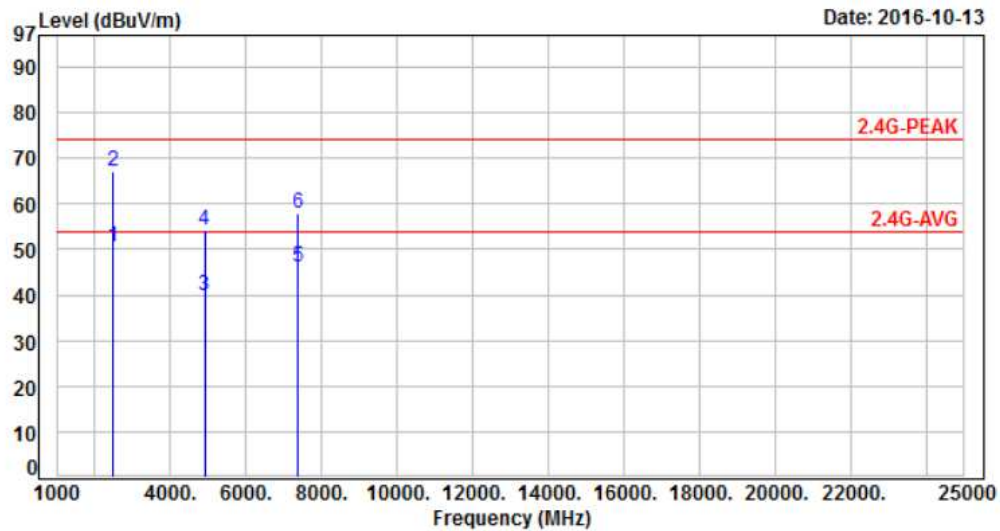
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	51.15	50.51	54.00	-3.49	Average	153	207	P
2	2483.50	-0.64	67.62	66.98	74.00	-7.02	Peak	153	207	P
3	4904.00	8.98	30.91	39.89	54.00	-14.11	Average	102	232	P
4	4904.00	8.98	45.25	54.23	74.00	-19.77	Peak	102	232	P
5	7356.00	13.78	32.45	46.23	54.00	-7.77	Average	127	88	P
6	7356.00	13.78	44.24	58.02	74.00	-15.98	Peak	127	88	P

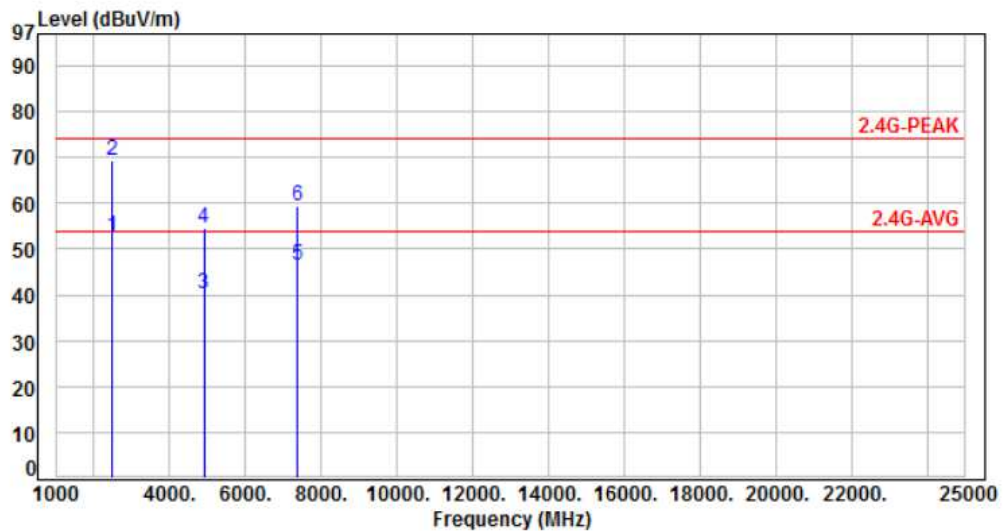
Note: Level=Reading+Factor

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	: Oct. 13, 2016	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	-0.64	53.47	52.83	54.00	-1.17	Average	266	41	P
2	2483.50	-0.64	70.06	69.42	74.00	-4.58	Peak	266	41	P
3	4904.00	8.98	31.38	40.36	54.00	-13.64	Average	100	120	P
4	4904.00	8.98	45.44	54.42	74.00	-19.58	Peak	100	120	P
5	7356.00	13.78	32.72	46.50	54.00	-7.50	Average	100	250	P
6	7356.00	13.78	45.48	59.26	74.00	-14.74	Peak	100	250	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

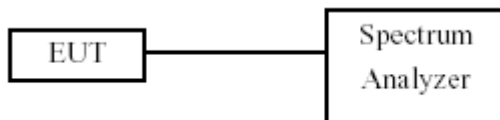
7.1 Test Limit

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

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 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.
- 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.
- The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Test Result : PASS

Test Date : Mar. 08, 2017

Temperature : 21°C

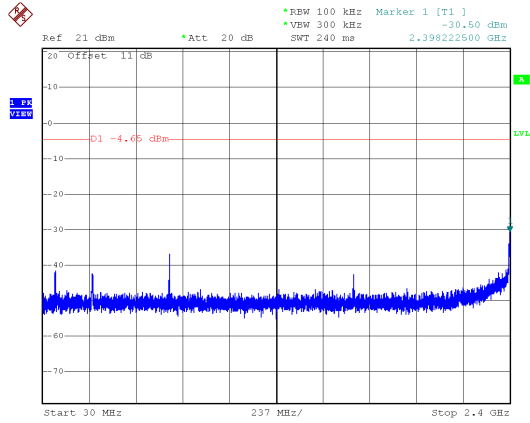
Humidity : 58%

Note: Test plots refers to the following pages.

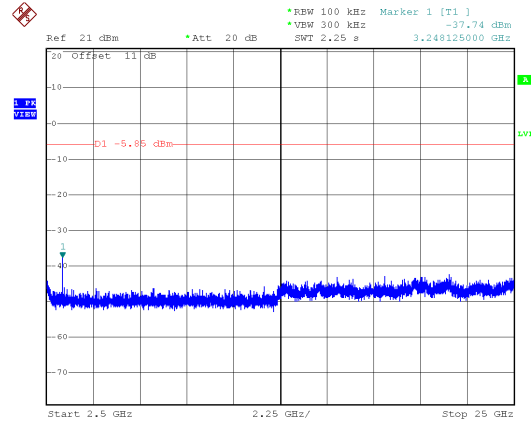
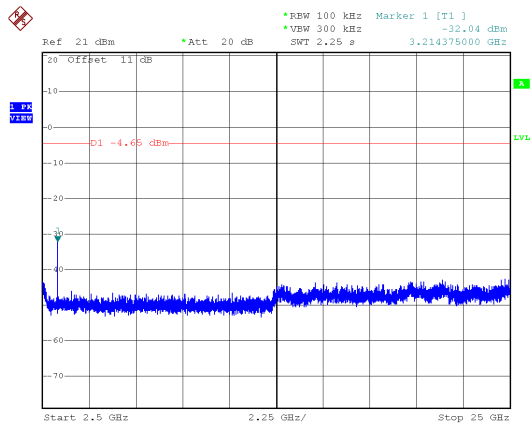
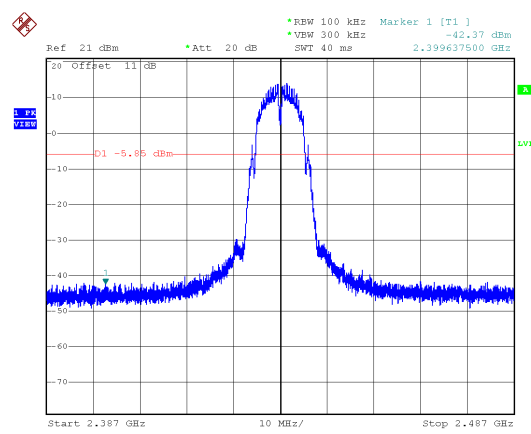
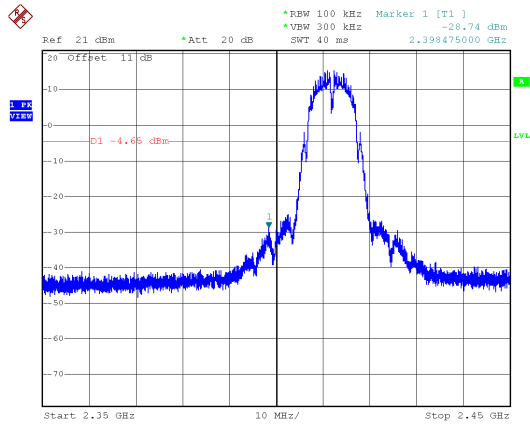
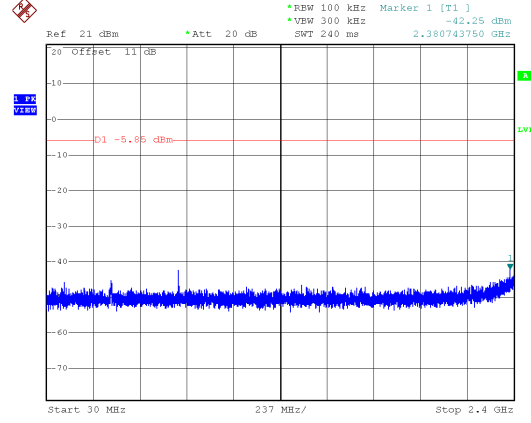


ANT 1

Modulation Type: 802.11b, CH 01



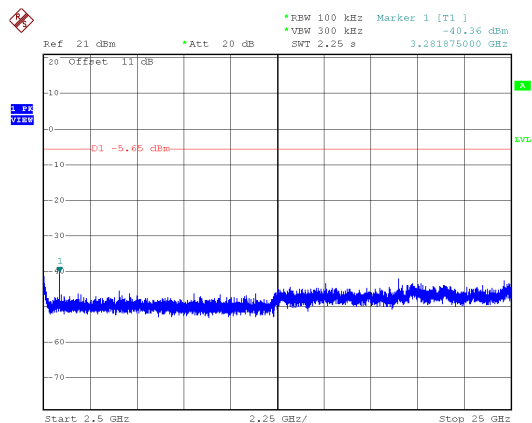
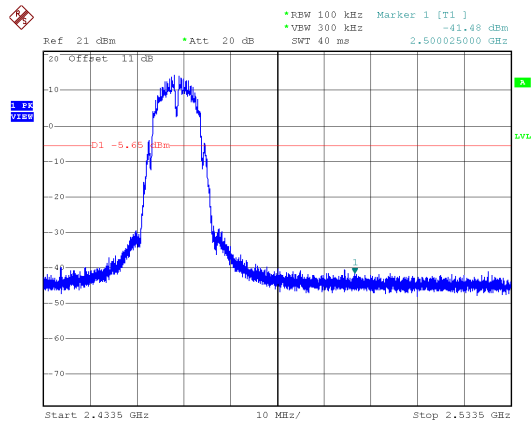
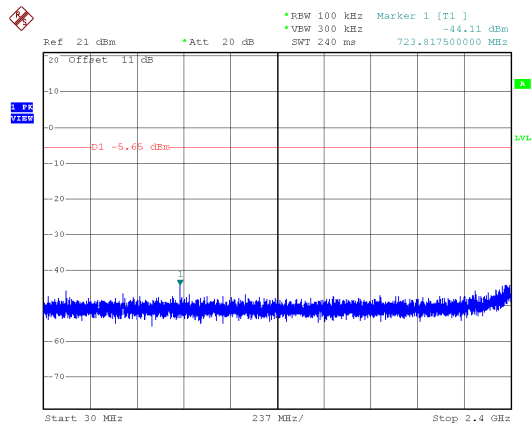
Modulation Type: 802.11b, CH 06





ANT 1

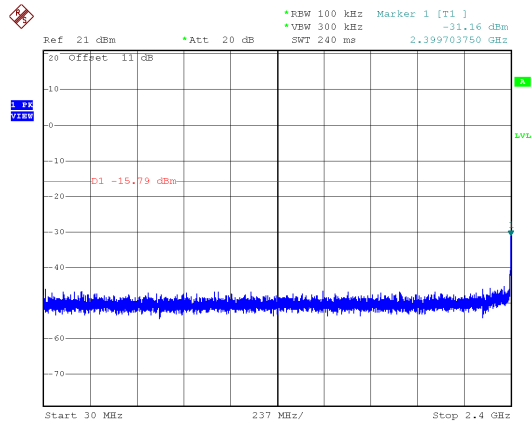
Modulation Type: 802.11b, CH 11



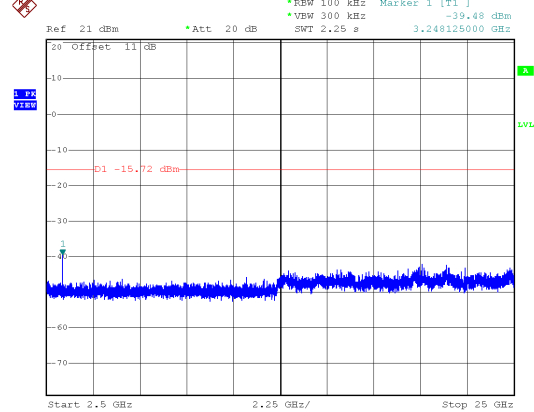
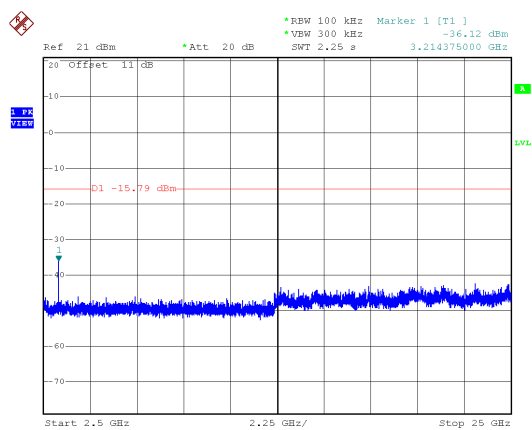
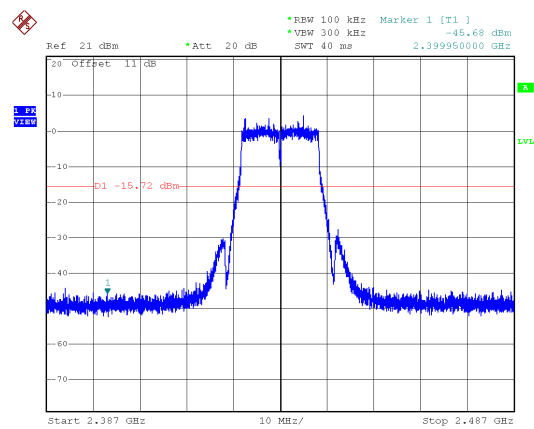
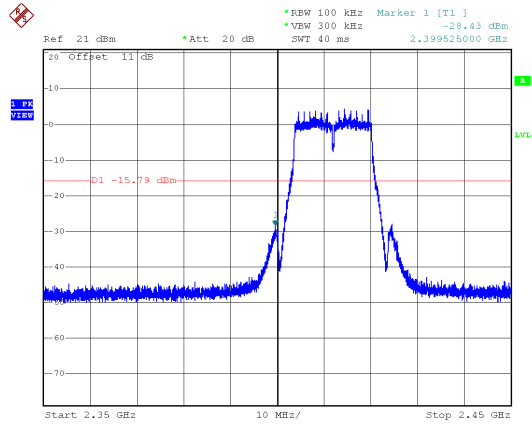
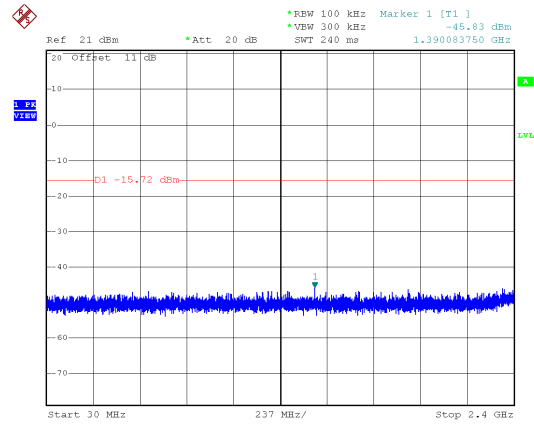


ANT 1

Modulation Type: 802.11g, CH 01



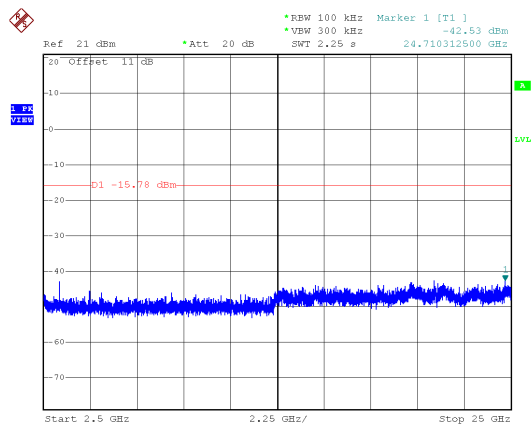
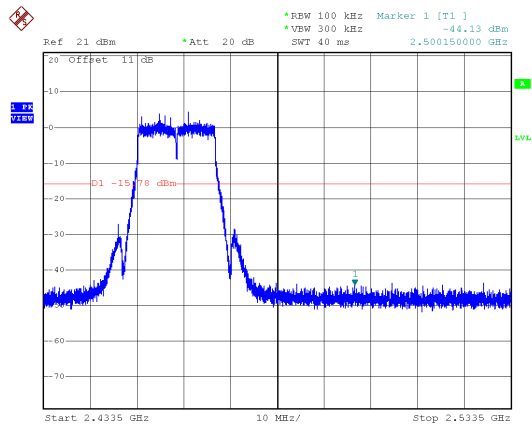
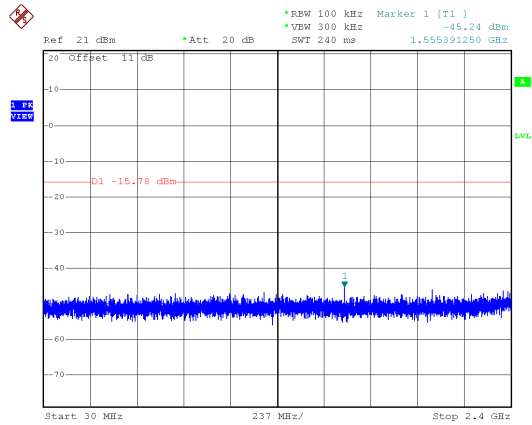
Modulation Type: 802.11g, CH 06





ANT 1

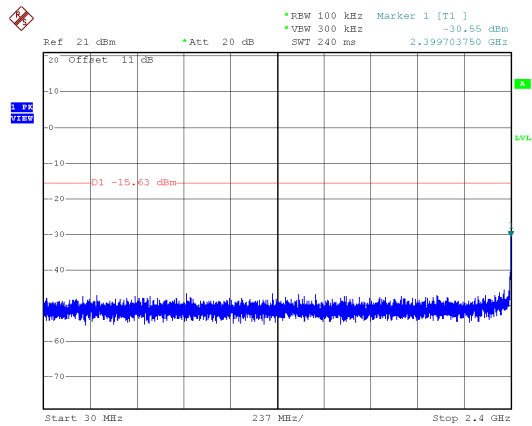
Modulation Type: 802.11g, CH 11



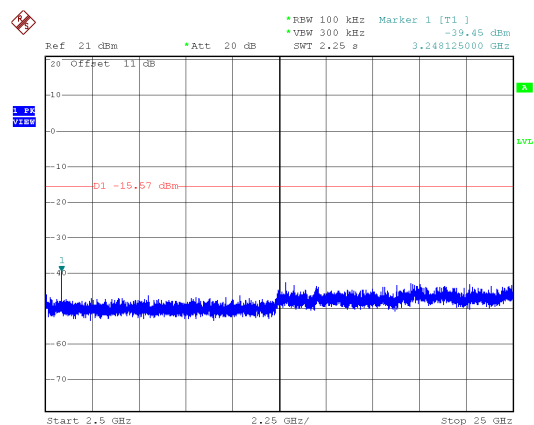
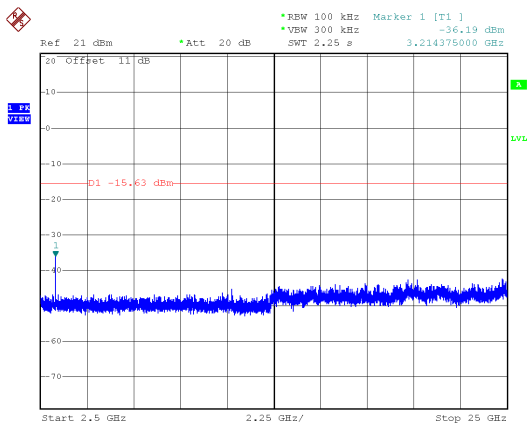
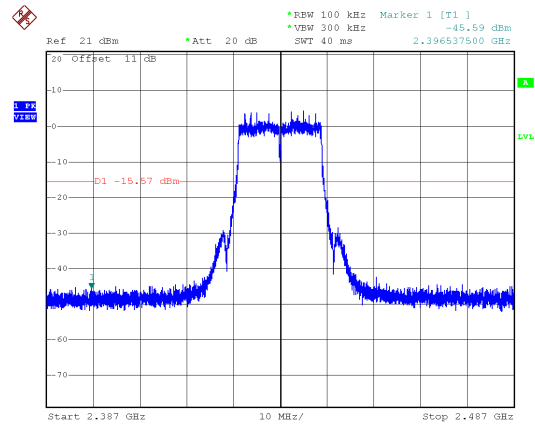
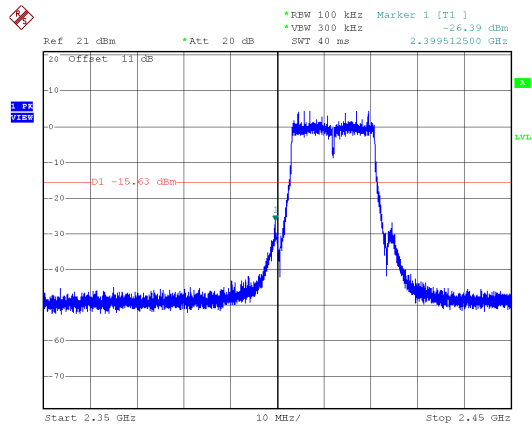
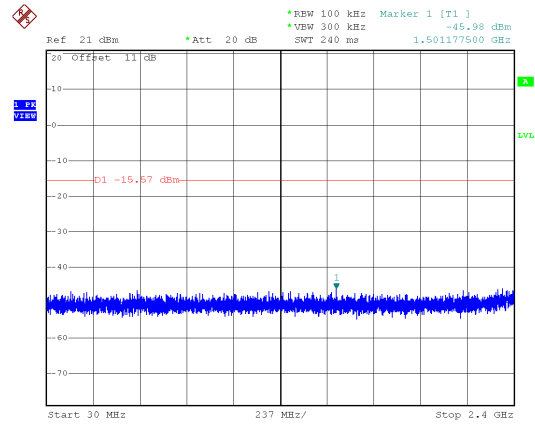


ANT 1

Modulation Type: 802.11n HT20, CH01



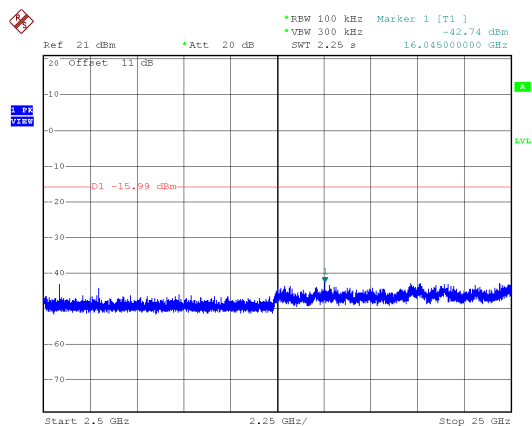
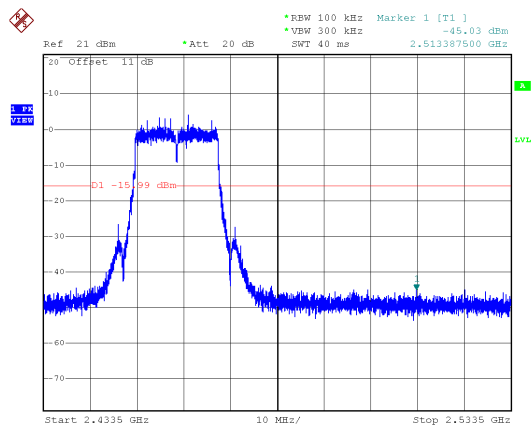
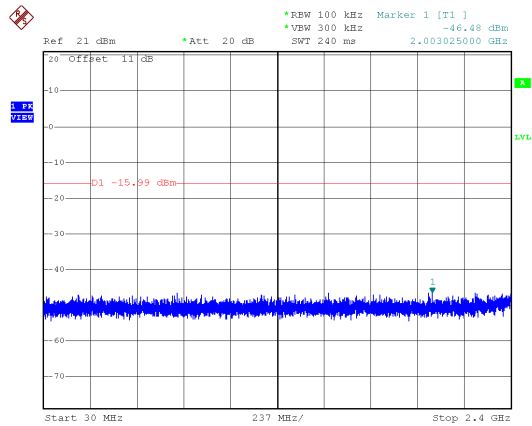
Modulation Type: 802.11n HT20, CH06





ANT 1

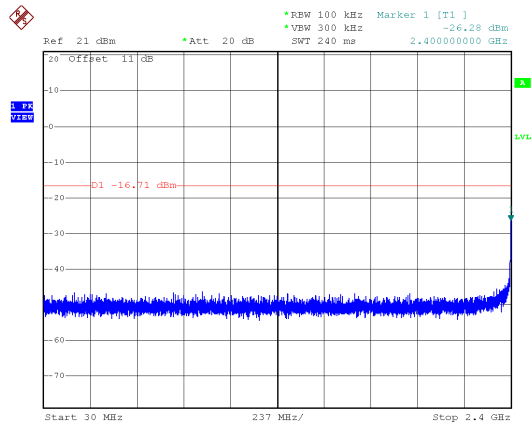
Modulation Type: 802.11n HT20, CH11



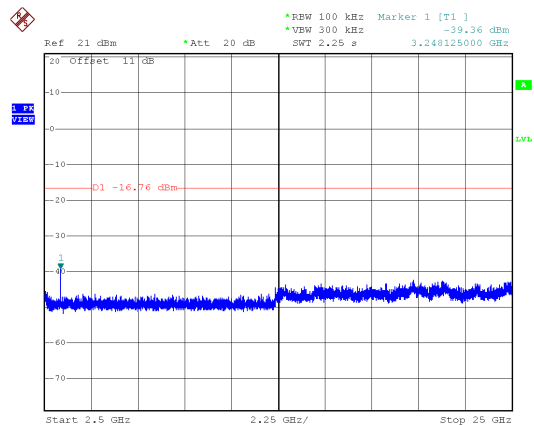
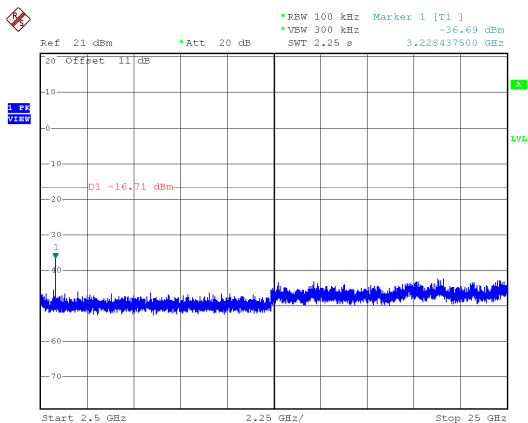
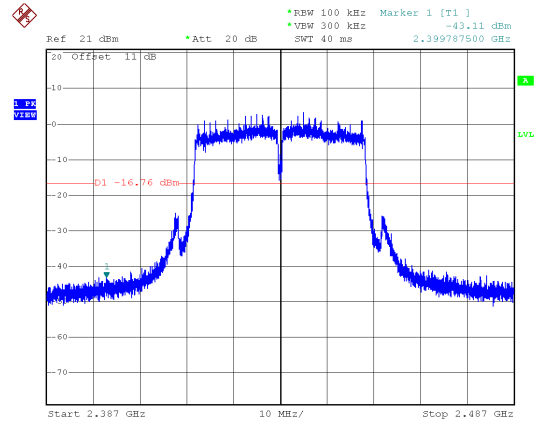
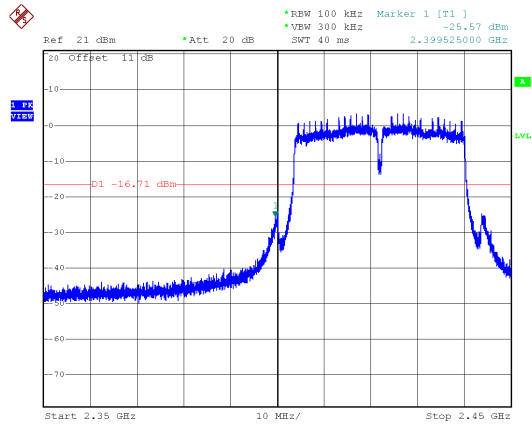
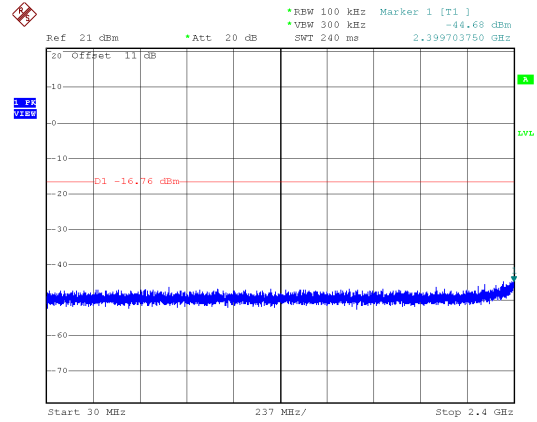


ANT 1

Modulation Type: 802.11n HT40, CH03



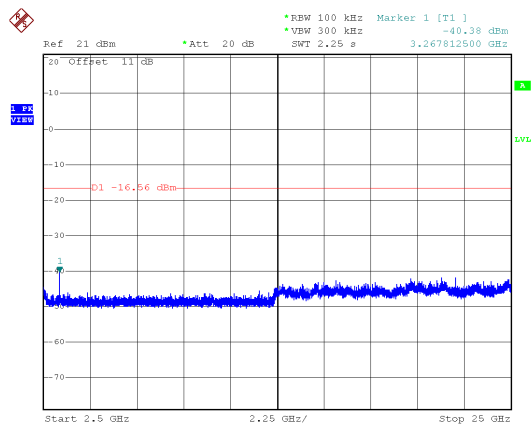
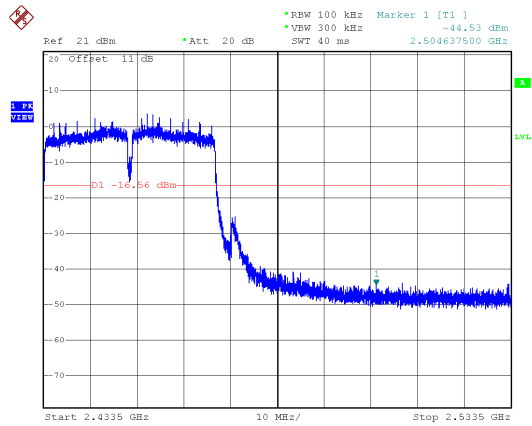
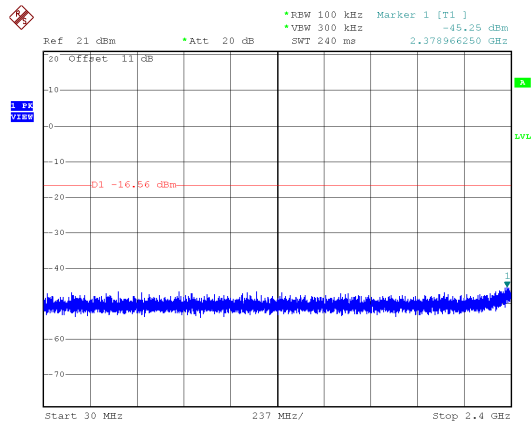
Modulation Type: 802.11n HT40, CH06





ANT 1

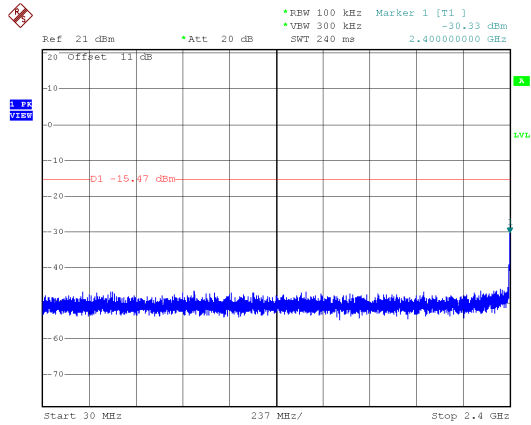
Modulation Type: 802.11n HT40, CH09



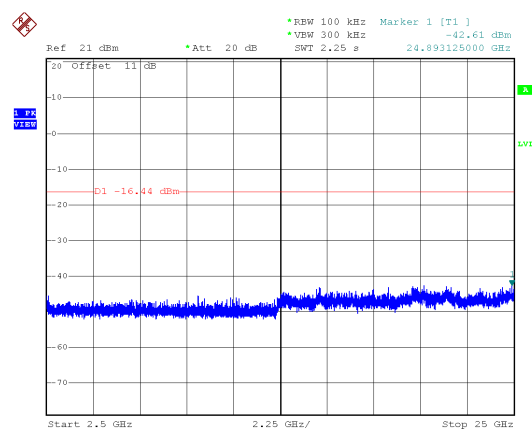
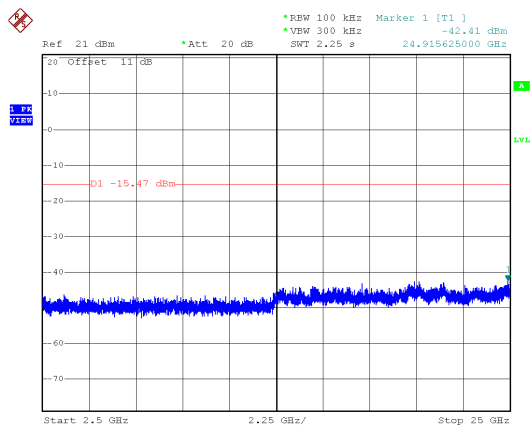
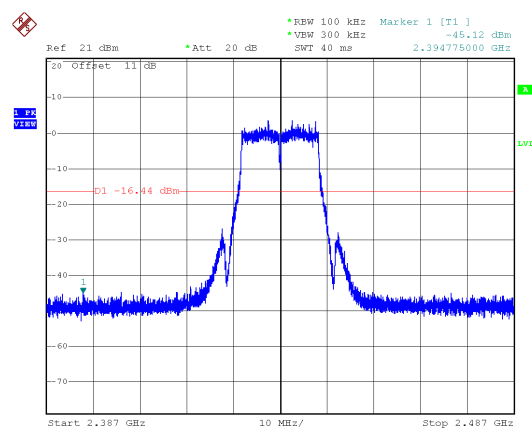
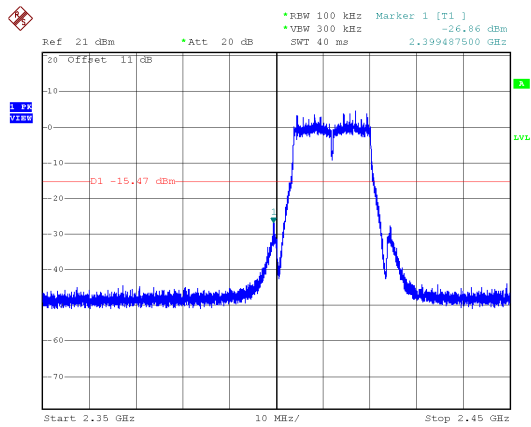
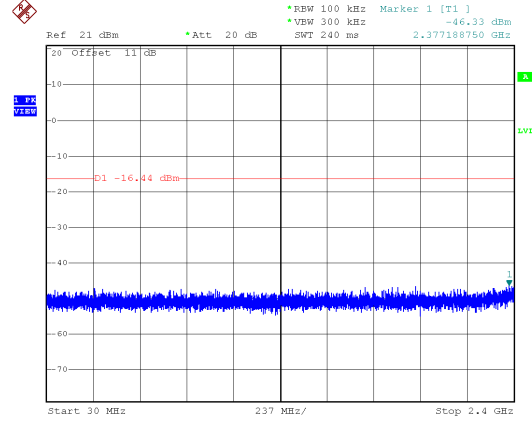


ANT 2

Modulation Type: 802.11g, CH 01



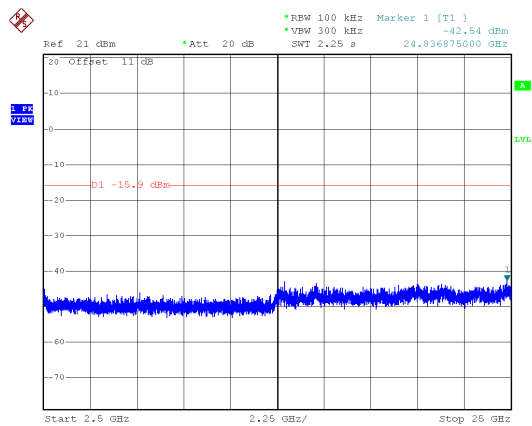
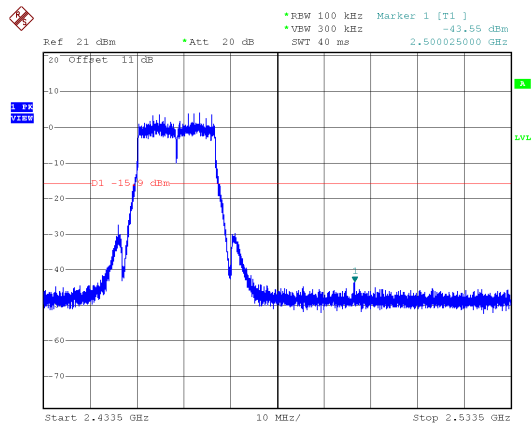
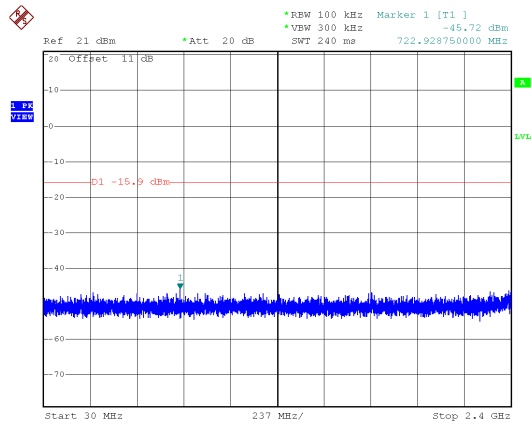
Modulation Type: 802.11g, CH 06





ANT 2

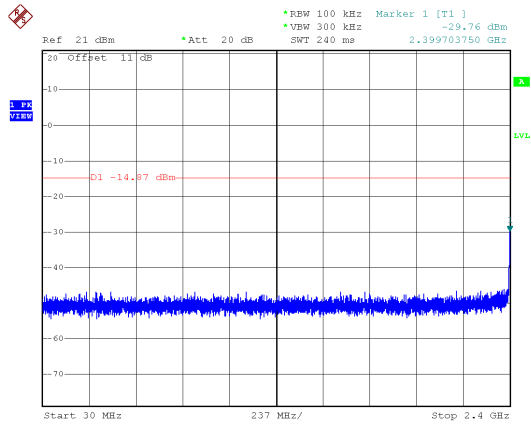
Modulation Type: 802.11g, CH 11



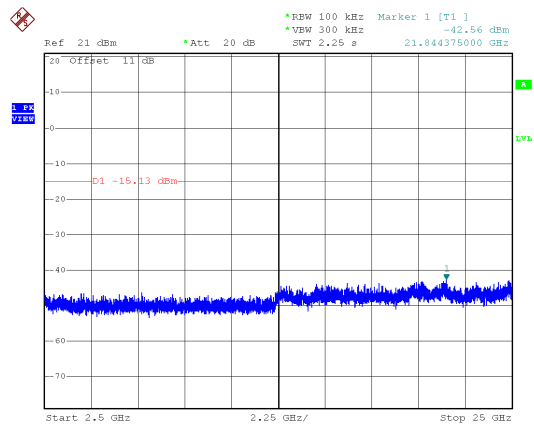
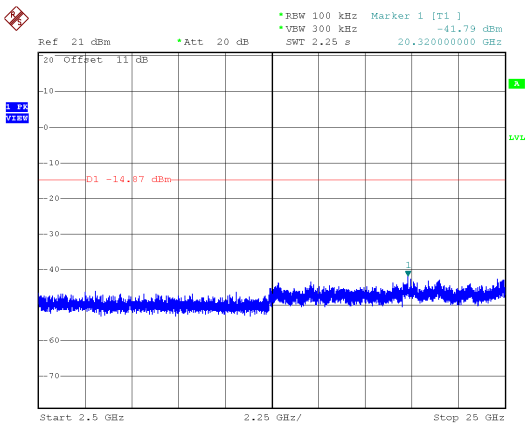
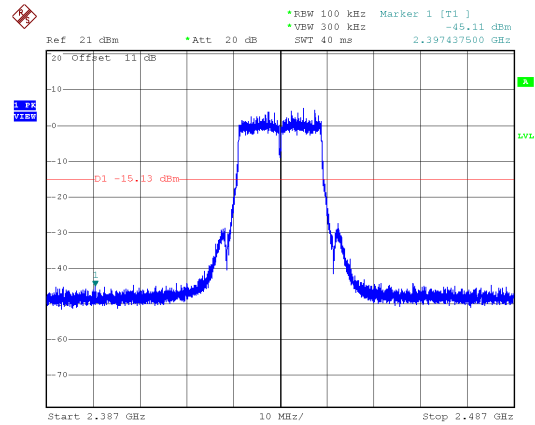
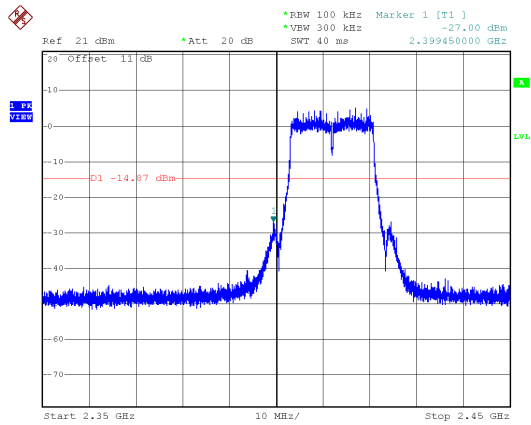
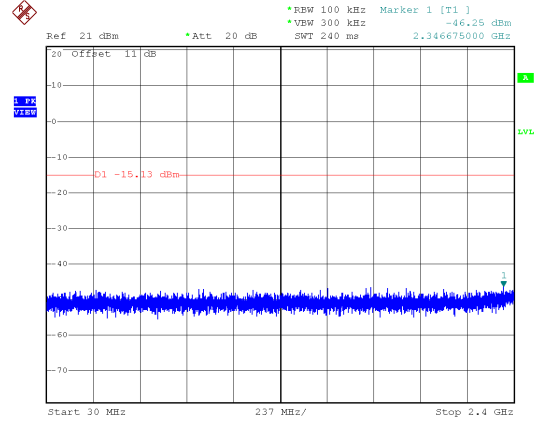


ANT 2

Modulation Type: 802.11n HT20, CH01



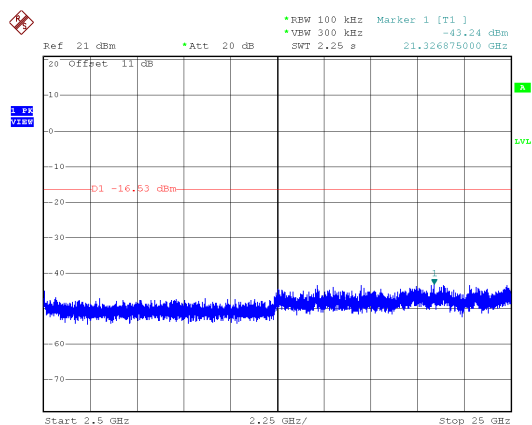
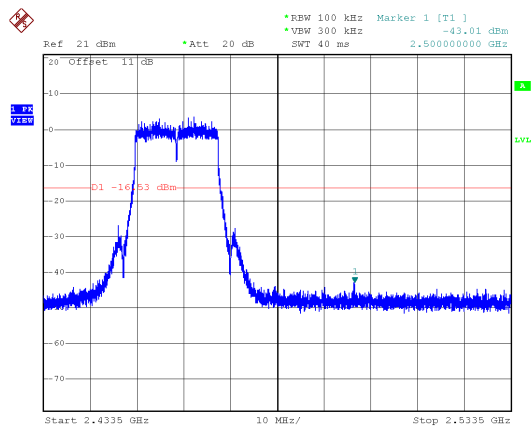
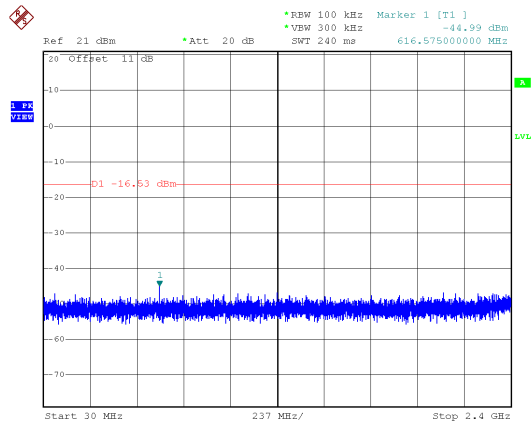
Modulation Type: 802.11n HT20, CH06





ANT 2

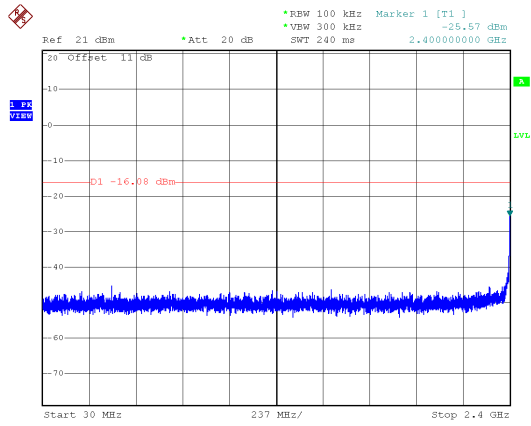
Modulation Type: 802.11n HT20, CH11



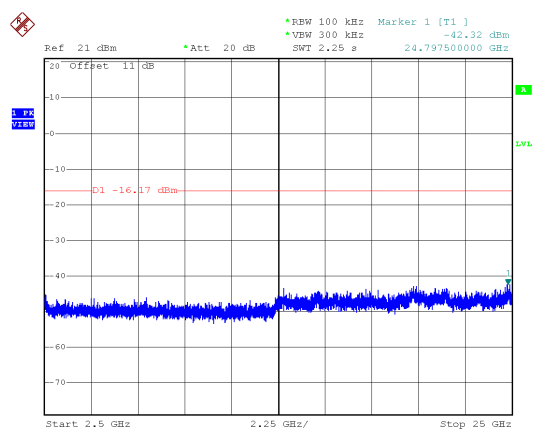
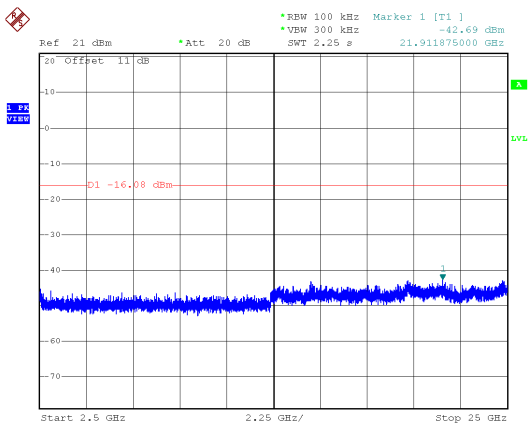
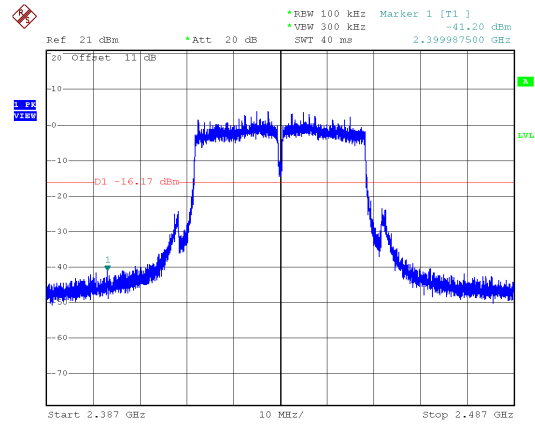
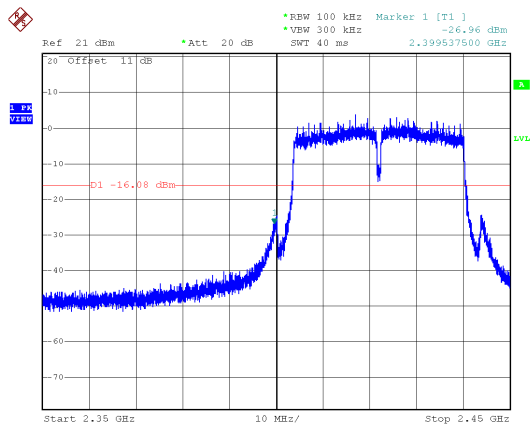
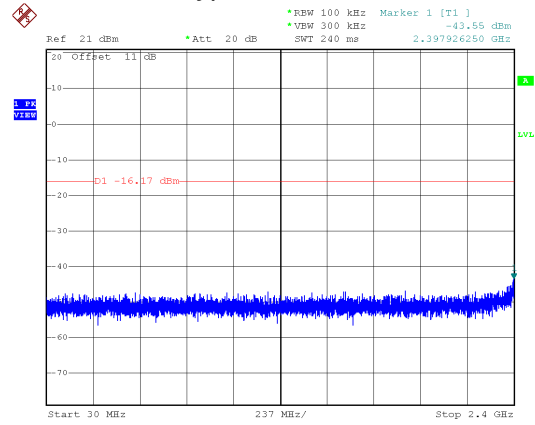


ANT 2

Modulation Type: 802.11n HT40, CH03



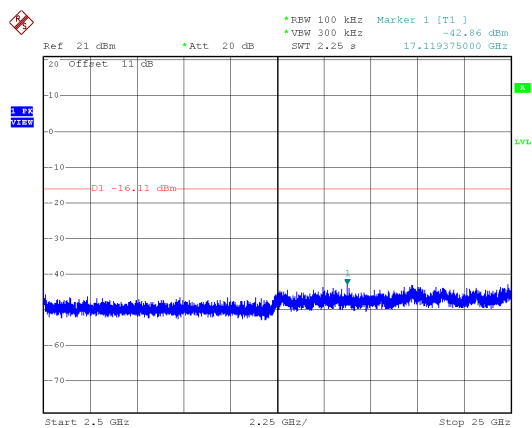
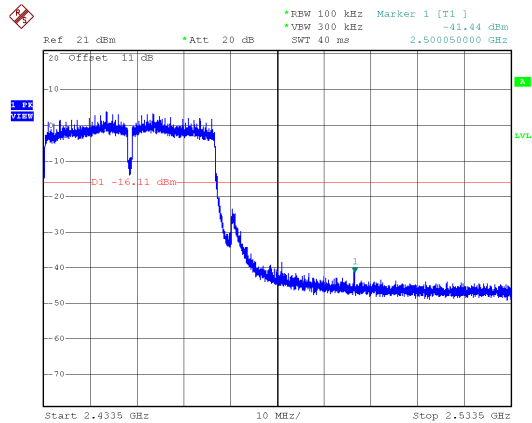
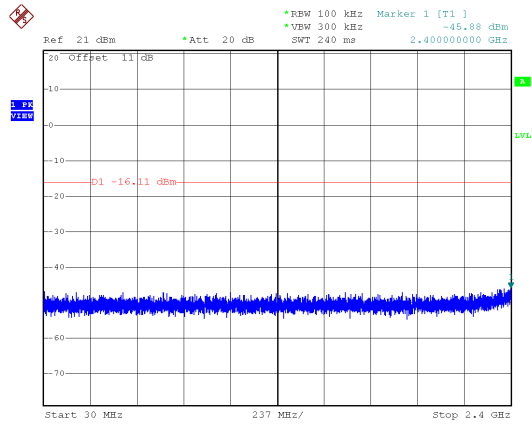
Modulation Type: 802.11n HT40, CH06





ANT 2

Modulation Type: 802.11n HT40, CH09





8. 6dB Bandwidth Measurement Data

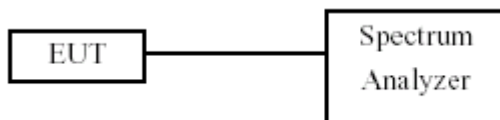
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW $\geq 3 \times$ RBW.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



8.4 Test Result and Data

Temperature : 21°C

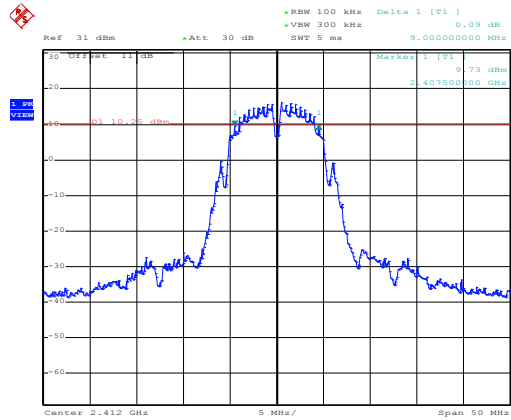
Humidity : 58%

Test Date : Mar. 08, 2017

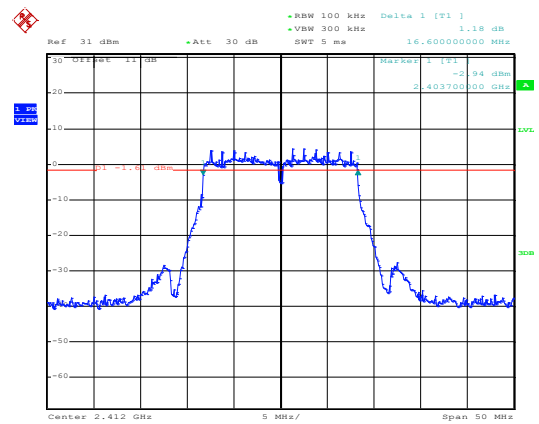
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT 1	ANT 2	
IEEE 802.11b (1Mbps)	01	2412	9.00	---	0.5
	06	2437	8.00	---	0.5
	11	2462	8.10	---	0.5
IEEE 802.11g (6Mbps)	01	2412	16.60	16.60	0.5
	06	2437	16.60	16.60	0.5
	11	2462	16.60	16.60	0.5
IEEE 802.11n HT20 (6.5Mbps)	01	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	36.40	36.20	0.5
	06	2437	36.00	36.20	0.5
	09	2452	36.00	36.20	0.5



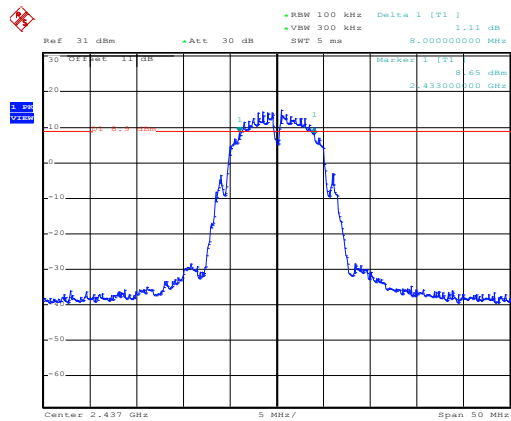
ANT 1
Modulation Type: 802.11b
CH01



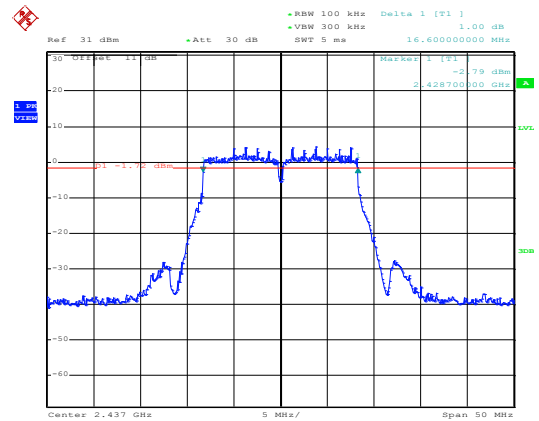
Modulation Type: 802.11g
CH01



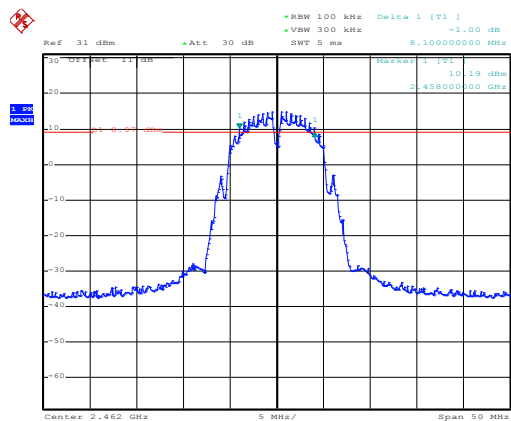
CH06



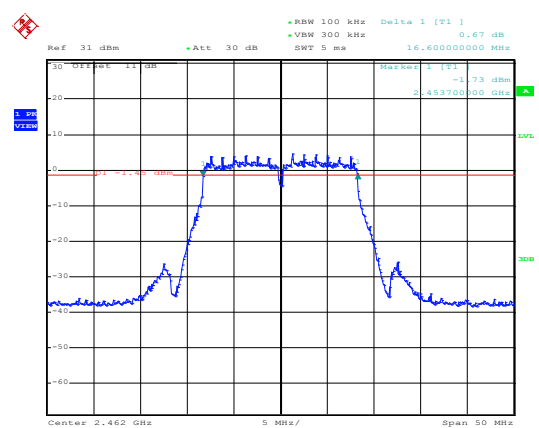
CH06



CH11

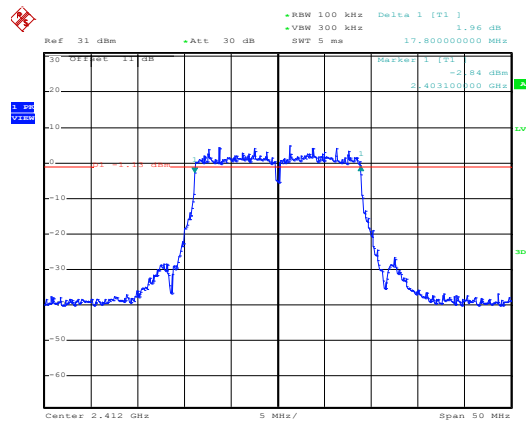
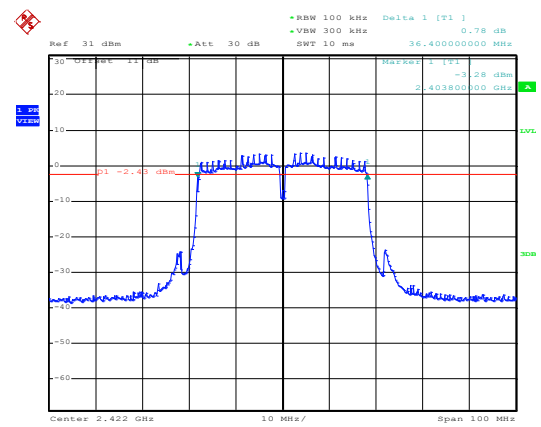


CH11

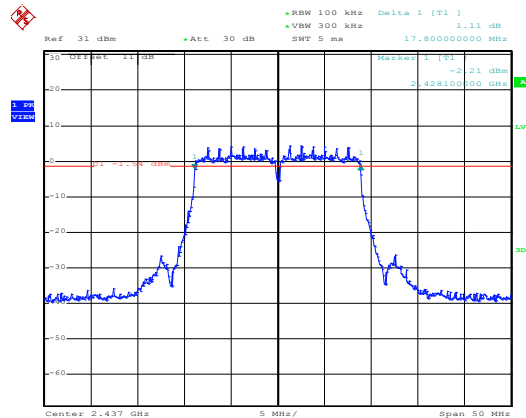




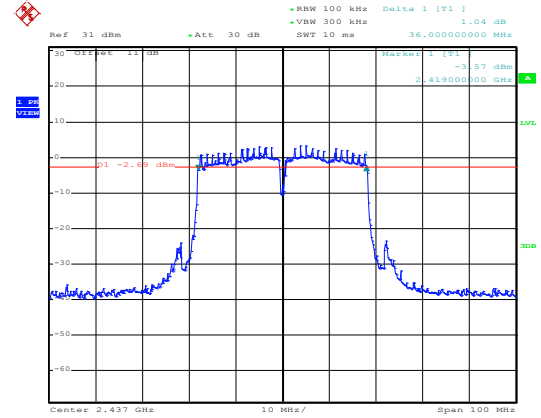
ANT 1

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

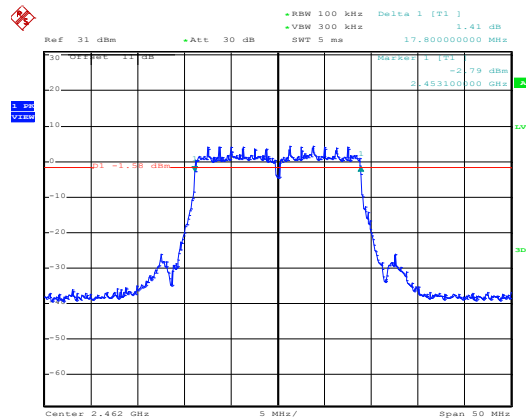
CH06



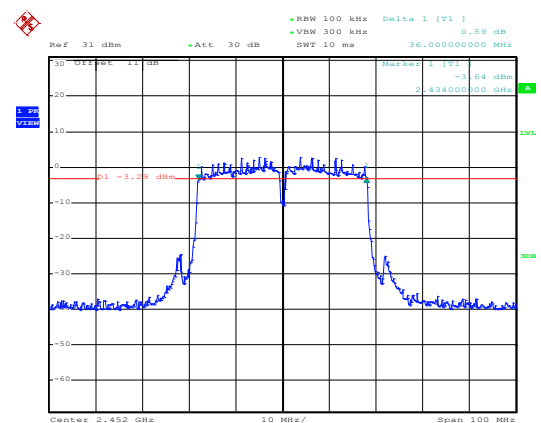
CH06



CH11

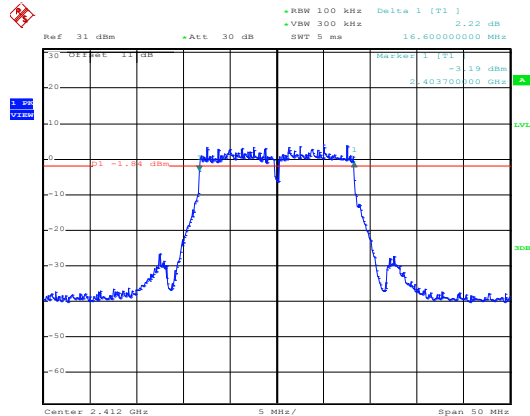
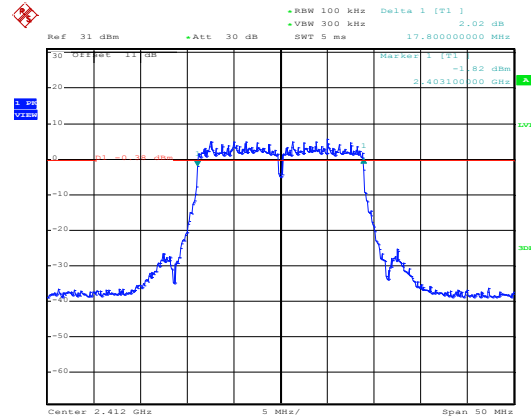


CH09

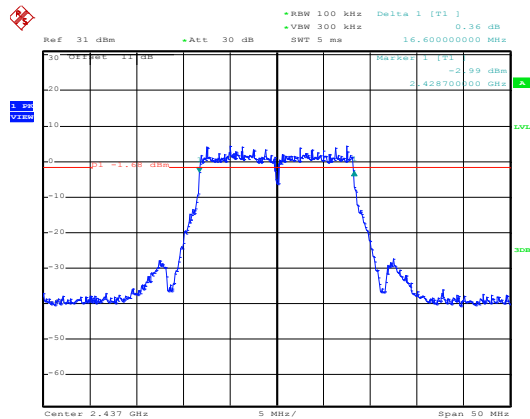




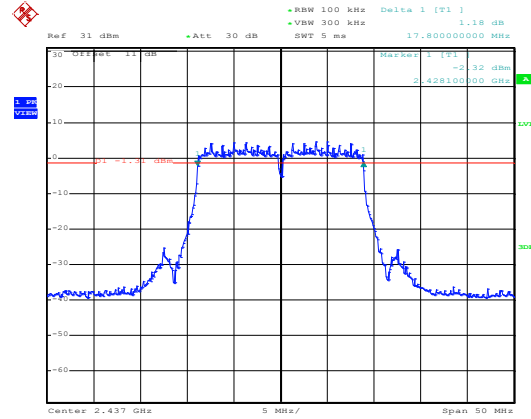
ANT 2

Modulation Type: 802.11g
CH01Modulation Type: 802.11n HT20
CH01

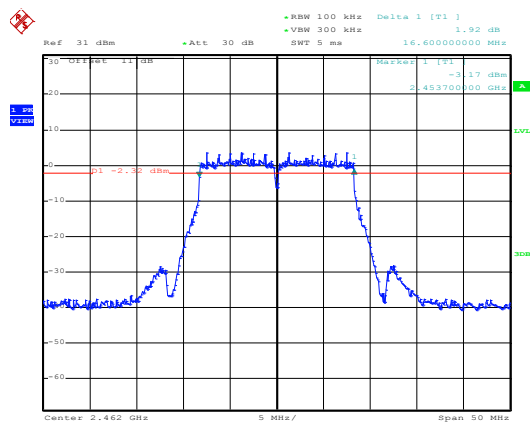
CH06



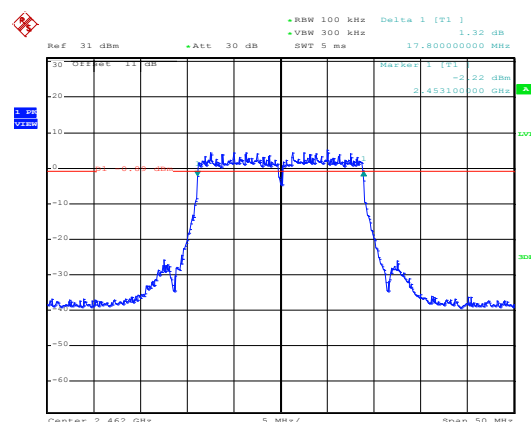
CH06



CH11



CH11







9. Maximum Peak and Average Output Power

9.1 Test Limit

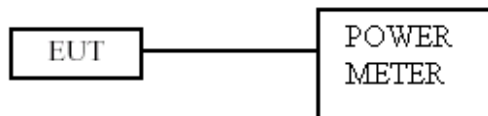
The Maximum Peak Output Power Measurement is 30dBm.

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 : 21°C

Humidity : 58%

Test Date : Mar. 08, 2017

Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT 1	ANT 2			
IEEE 802.11b (1Mbps)	01	2412	28.14		28.14	651.63	30.00
	06	2437	27.11		27.11	514.04	30.00
	11	2462	27.01		27.01	502.34	30.00
IEEE 802.11g (6Mbps)	01	2412	26.57	26.42	29.51	892.47	30.00
	06	2437	26.32	26.66	29.50	892.00	30.00
	11	2462	26.35	26.57	29.47	885.46	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	26.63	26.57	29.61	914.20	30.00
	06	2437	26.65	26.74	29.71	934.44	30.00
	11	2462	26.22	26.36	29.30	851.31	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	26.45	25.99	29.24	838.76	30.00
	06	2437	26.52	26.31	29.43	876.31	30.00
	09	2452	26.43	25.84	29.16	823.25	30.00

Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT 1	ANT 2			
IEEE 802.11b (1Mbps)	01	2412	24.52	---	24.52	283.14	30.00
	06	2437	23.33	---	23.33	215.28	30.00
	11	2462	23.15	---	23.15	206.54	30.00
IEEE 802.11g (6Mbps)	01	2412	16.26	16	19.14	82.08	30.00
	06	2437	16.26	16.25	19.27	84.44	30.00
	11	2462	16.11	16.13	19.13	81.85	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	16.76	16.4	19.59	91.08	30.00
	06	2437	16.64	16.63	19.65	92.16	30.00
	11	2462	16.25	16.15	19.21	83.38	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	17.55	17.12	20.35	108.41	30.00
	06	2437	17.36	17.25	20.32	107.54	30.00
	09	2452	17.47	16.99	20.25	105.85	30.00

Note: Average power is for reference only.



10. Power Spectral Density

10.1 Test Limit

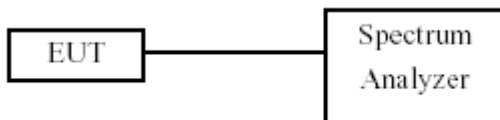
The Maximum of Power Spectral Density Measurement is 8dBm.

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

- The transmitter output was connected to spectrum analyzer.
- 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.
- The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Temperature : 21°C

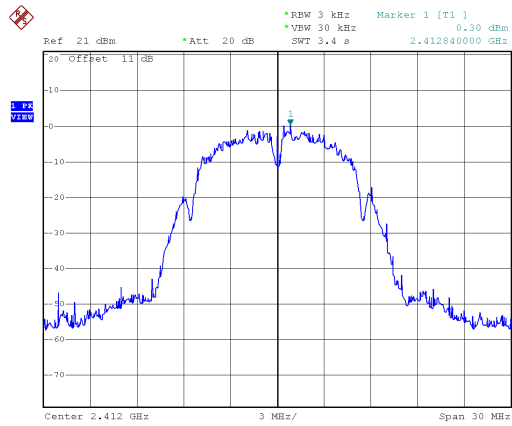
Humidity : 58%

Test Date : Mar. 08, 2017

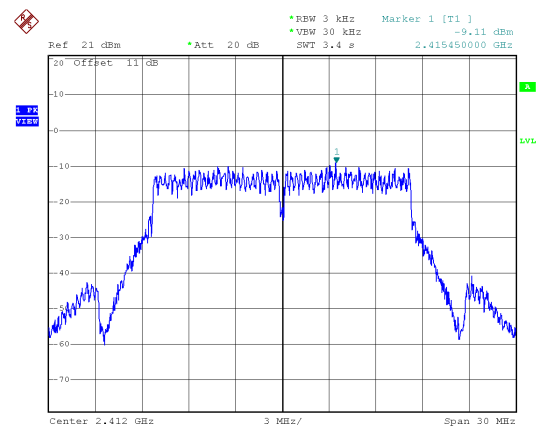
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT 1	ANT 2				
IEEE 802.11b (1Mbps)	01	2412	0.3	---	0.30	0.00	0.30	8.00
	06	2437	1.96	---	1.96	0.00	1.96	8.00
	11	2462	-0.49	---	-0.49	0.00	-0.49	8.00
IEEE 802.11g (6Mbps)	01	2412	-9.11	-8.66	-5.87	0.00	-5.87	7.04
	06	2437	-9.25	-9.11	-6.17	0.00	-6.17	7.04
	11	2462	-10.08	-9.29	-6.66	0.00	-6.66	7.04
IEEE 802.11n HT20 (6.5Mbps)	01	2412	-9.8	-8.32	-5.99	0.00	-5.99	7.04
	06	2437	-9.13	-9.17	-6.14	0.00	-6.14	7.04
	11	2462	-10.89	-9.68	-7.23	0.00	-7.23	7.04
IEEE 802.11n HT40 (13.5Mbps)	03	2422	-9.98	-10.54	-7.24	0.00	-7.24	7.04
	06	2437	-10.42	-11.4	-7.87	0.00	-7.87	7.04
	09	2452	-9.98	-10.24	-7.10	0.00	-7.10	7.04



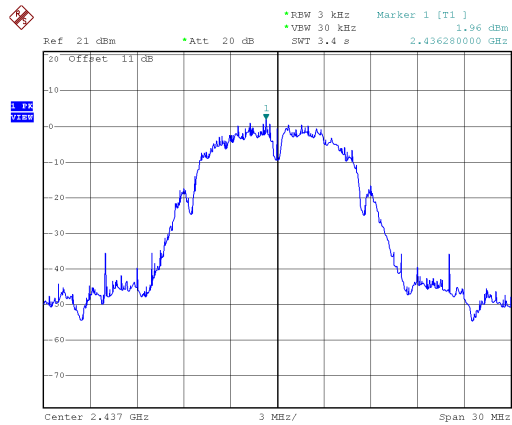
ANT 1
Modulation Type: 802.11b
CH01



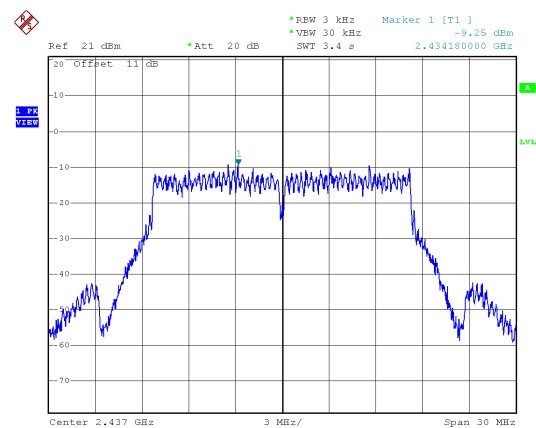
Modulation Type: 802.11g
CH01



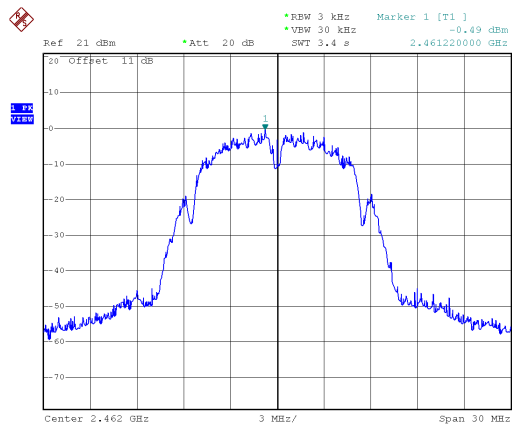
CH06



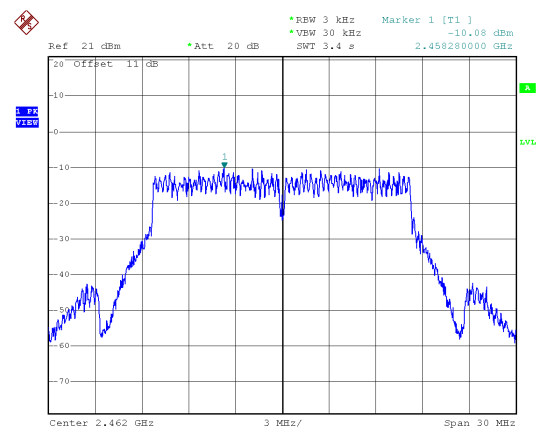
CH06



CH11



CH11

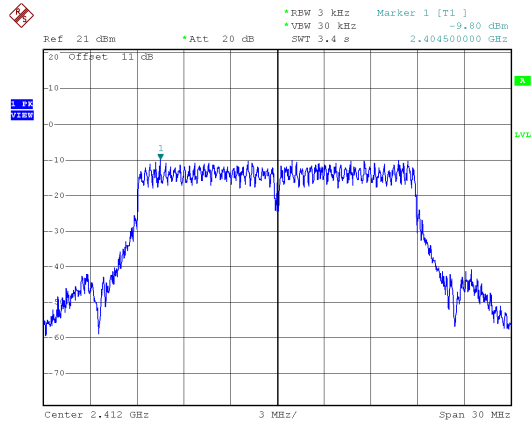




ANT 1

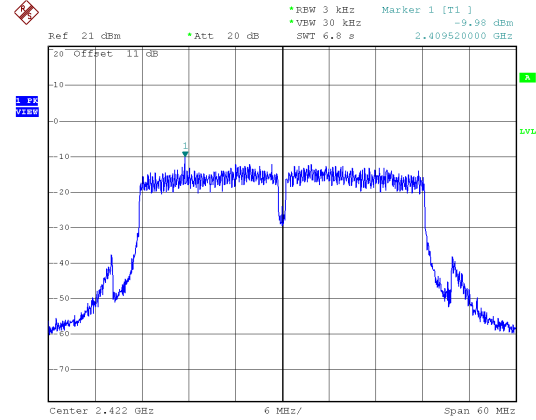
Modulation Type: 802.11n HT20

CH01

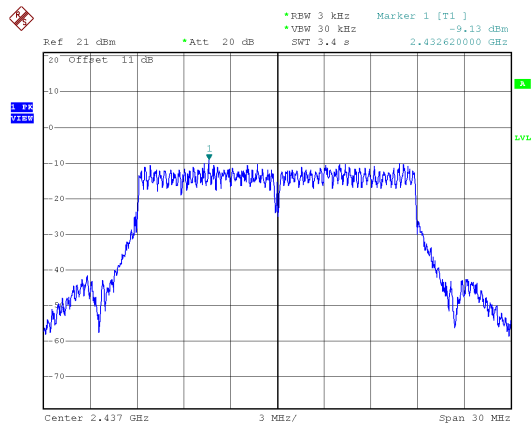


Modulation Type: 802.11n HT40

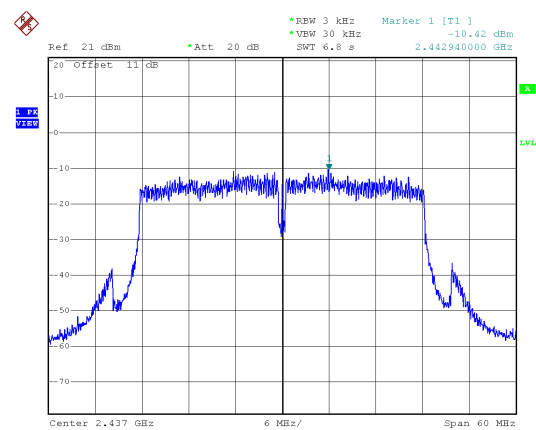
CH03



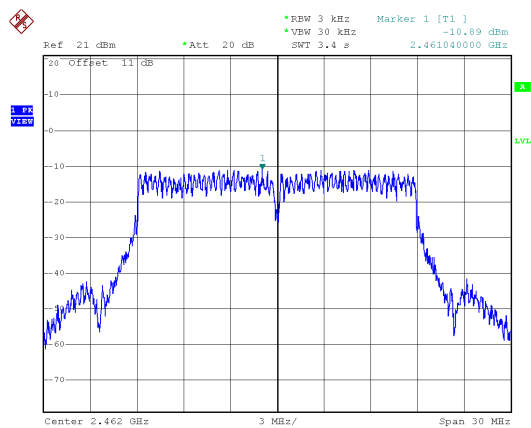
CH06



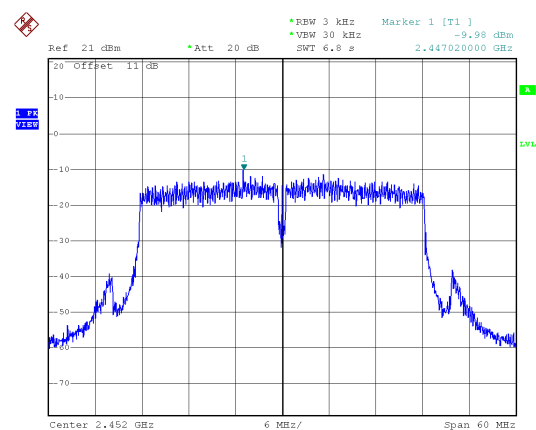
CH06



CH11

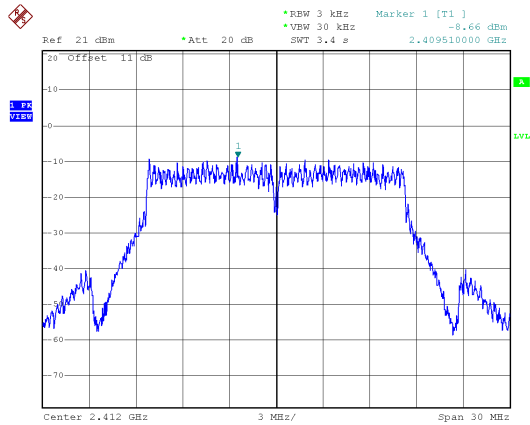


CH09

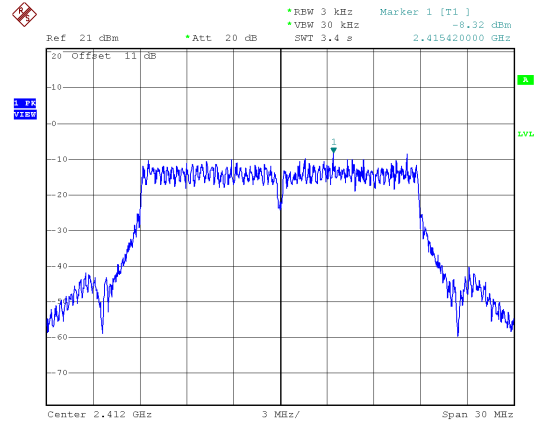




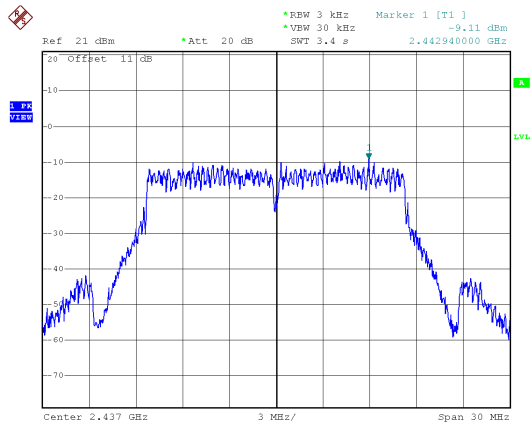
ANT 2
Modulation Type: 802.11g
CH01



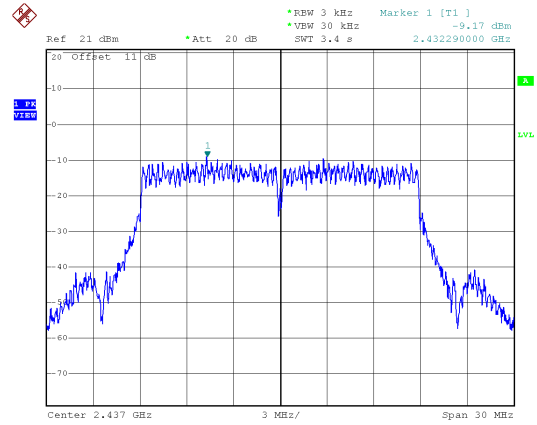
Modulation Type: 802.11n HT20
CH01



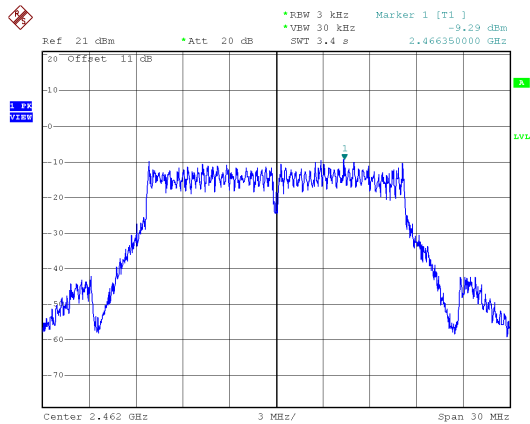
CH06



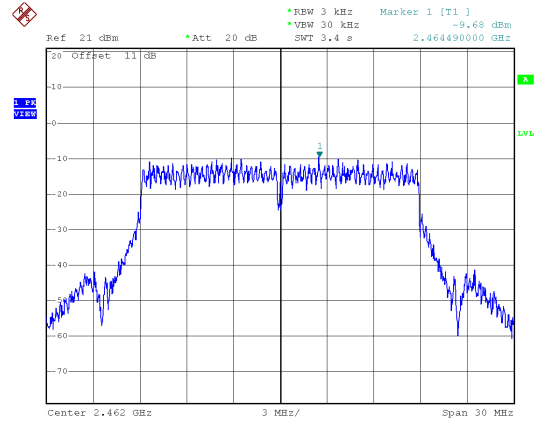
CH06



CH11

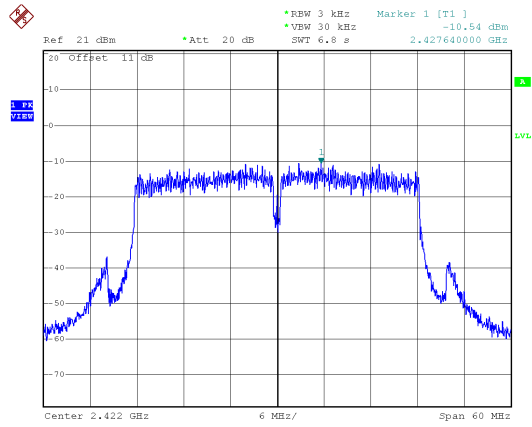


CH11

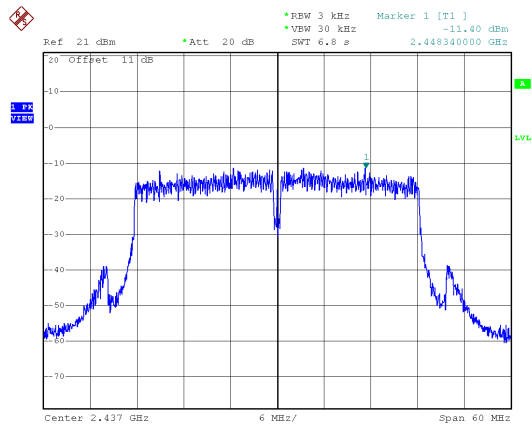




ANT 2
Modulation Type: 802.11n HT40
CH03



CH06



CH09

