



FCC RADIO TEST REPORT

Applicant : Allied Telesis K.K.
Address : 2nd. TOC Bldg. 721-11 Nishi-Gotanda, Shinagawa-ku,
Tokyo Japan, 141-0031
Equipment : 802.11ac wave2 2x2 tri-radio 2.4G/5G/5G wireless AP
Model No. : AT-TQ5403
Trade Name : Allied Telesis
FCC ID : RSL-TQ5403

I HEREBY CERTIFY THAT :

The sample was received on Feb. 08, 2018 and the testing was carried out on Feb. 11, 2018 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
2.1091	. Radio Frequency Exposure	Pass

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



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Equipment	802.11ac wave2 2x2 tri-radio 2.4G/5G/5G wireless AP
Model No.	AT-TQ5403
Brand Name	Allied Telesis
Product Description	Please refer to User's Manual.
Connecting I/O Port(s)	Please refer to User's Manual.
AC ADAPTER	Adapter Brand: APD Model No.: WA-24Q12R I/P: AC 100-240V~, 50-60Hz, 0.7A MAX. ; O/P: DC 12V, 2.0A
PoE	48Vdc/0.67A
Memo	A1
Frequency Range	802.11b/g/n: 2400~2483.5 MHz 802.11a/n/ac: 5150~5250 MHz, 5725~5850 MHz
Modulation Type	OFDM, DSSS
Data Rate	2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40, VHT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	PCB Antenna
Antenna Gain	2.4GHz: ANT A: 4.85 dBi ; ANT B: 4.4 dBi 5150MHz-5250MHz: ANT A: 4.18 dBi ; ANT B: 4.81 dBi 5725MHz-5850MHz: ANT A: 4.9 dBi ; ANT B: 4.18 dBi

Note:

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



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, VHT20 (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, VHT40 (2422MHz~2452MHz)

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

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- 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, "QDART_CONN.WIN.1.0 Installer-00039.1" under WIN 7 was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps)
2	802.11g (6Mbps)
3	VHT20 (6.5Mbps)
4	VHT40 (13.5Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), Power from Adapter
2	802.11g (6Mbps), Power from Adapter
3	VHT20 (6.5Mbps), Power from Adapter
4	VHT40 (13.5Mbps), Power from Adapter
5	802.11b (1Mbps), Power from PoE
6	802.11g (6Mbps), Power from PoE
7	VHT20 (6.5Mbps), Power from PoE
8	VHT40 (13.5Mbps), Power from PoE
caused "Test Mode 1,5" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), Power from Adapter
2	802.11g (6Mbps), Power from Adapter
3	VHT20 (6.5Mbps), Power from Adapter
4	VHT40 (13.5Mbps), Power from Adapter
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	

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

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Notebook	DELL	LatitudeE5450/5450	Power Cable, Unshielding, 1.8m



2.5 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, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4399, R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

2.6 Measurement Uncertainty

Measurement Item	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	100443	2017/03/07	2018/03/06
LISN	Schwarzbeck	NSLK 8127	8127-568	2017/02/15	2018/02/14
Pulse Limiter	R&S	ESH3-Z2	101934	2017/02/14	2018/02/13
Bilog Antenna	Schwarzbeck	VULB9168	369	2017/03/15	2018/03/14
Active Loop Antenna	EMCO	6507	40855	2017/05/15	2018/05/14
Horn Antenna	EMCO	3115	31589	2017/02/18	2018/02/17
Horn Antenna	EMCO	3116	31970	2017/03/29	2018/03/28
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2017/03/17	2018/03/16
Preamplifier	EM	EM330	60660	2017/02/25	2018/02/24
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2017/09/20	2018/09/19
Preamplifier	Agilent	8449B	3008A01954	2017/02/09	2018/02/08
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2017/11/10	2018/11/09
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2017/03/17	2018/03/16
Spectrum Analyzer	R&S	FSP40	100219	2017/07/01	2018/06/30
BLUETOOTH TESTER	R&S	CBT	101133	2017/03/10	2018/03/09
Attenuator	KEYSIGHT	8491B	MY39250703	2017/03/07	2018/03/06
Rotary Attenuator	Agilent	8495B	MY42146680	2017/03/13	2018/03/12
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2017/09/04	2018/09/03
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 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

4.2 Antenna Construction and Directional Gain

Antenna Type	PCB Antenna
Antenna Gain	2.4GHz: ANT A: 4.85 dBi ; ANT B: 4.4 dBi 5150MHz-5250MHz: ANT A: 4.18 dBi ; ANT B: 4.81 dBi 5725MHz-5850MHz: ANT A: 4.9 dBi ; ANT B: 4.18 dBi

(Non-Beamforming)

2412-2462MHz
For Power directional gain= $G_{ant}= 4.85$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT]$ = 7.64 (dBi)
5150MHz -5250MHz
For Power directional gain= $G_{ant}= 4.81$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT]$ = 7.51 (dBi)
5725MHz -5850MHz
For Power directional gain= $G_{ant}= 4.9$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT]$ = 7.56 (dBi)

(Beamforming)

2412-2462MHz
For Power directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.64$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.64$ (dBi)
5150MHz -5250MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.51$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.51$ (dBi)
5725MHz -5850MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.56$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / NANT] = 7.56$ (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

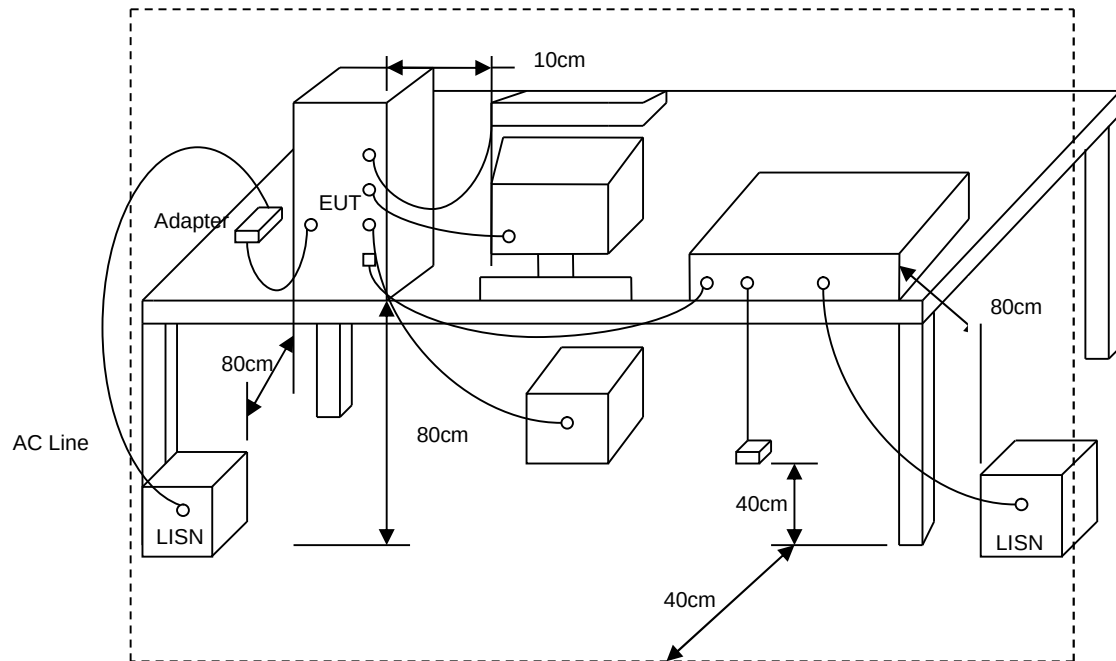
*Decreases with the logarithm of the frequency.

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.



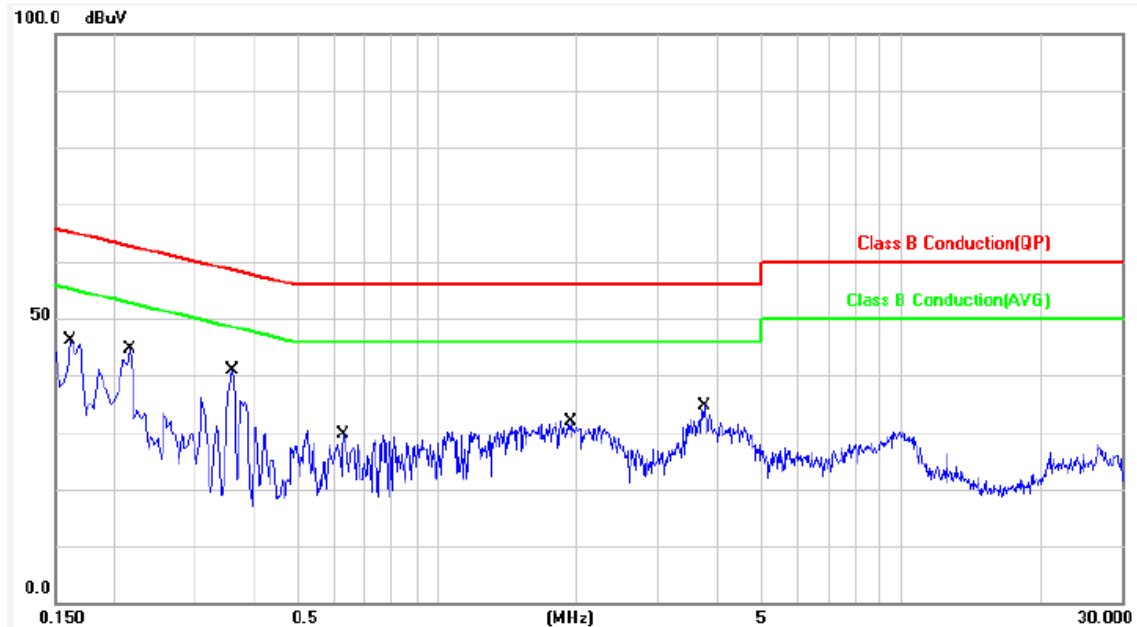
5.3 Typical Test Setup





5.4 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 1	Temperature	: 20 °C
Test Date	: Feb. 09, 2018	Humidity	: 40 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	9.91	34.59	44.50	65.36	-20.86	QP	P
2	0.1620	9.91	23.18	33.09	55.36	-22.27	AVG	P
3	0.2180	9.91	27.24	37.15	62.89	-25.74	QP	P
4	0.2180	9.91	19.40	29.31	52.89	-23.58	AVG	P
5	0.3620	9.93	29.72	39.65	58.68	-19.03	QP	P
6	0.3620	9.93	26.55	36.48	48.68	-12.20	AVG	P
7	0.6300	9.94	15.80	25.74	56.00	-30.26	QP	P
8	0.6300	9.94	12.92	22.86	46.00	-23.14	AVG	P
9	1.9460	10.02	18.94	28.96	56.00	-27.04	QP	P
10	1.9460	10.02	12.74	22.76	46.00	-23.24	AVG	P
11	3.7740	10.08	18.55	28.63	56.00	-27.37	QP	P
12	3.7740	10.08	11.69	21.77	46.00	-24.23	AVG	P

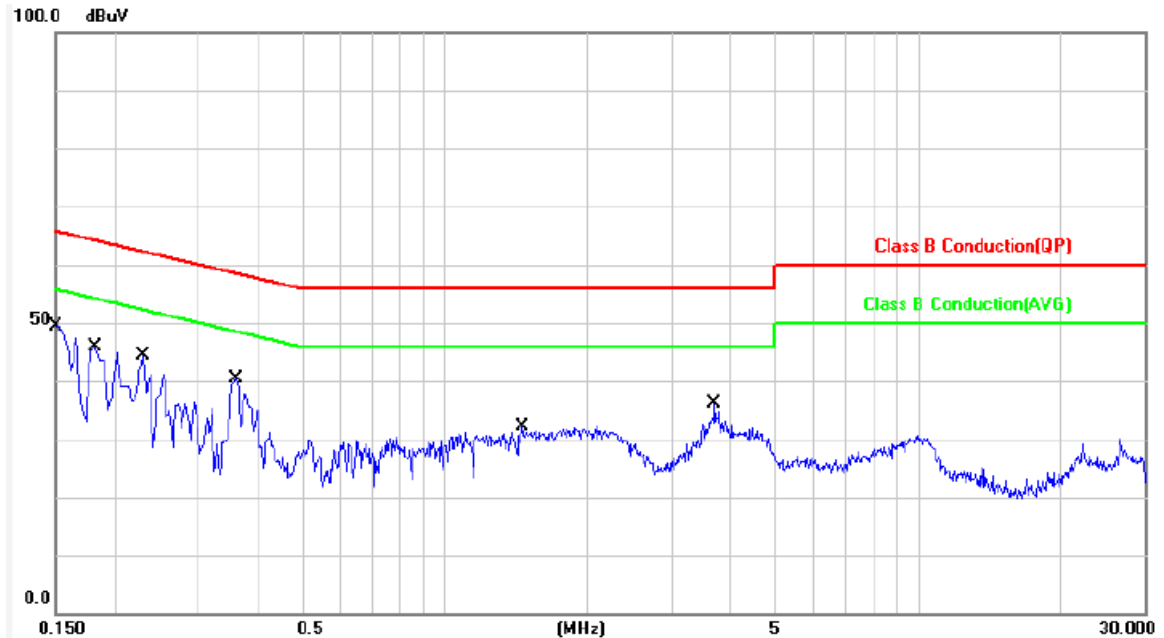
Note: Level = Reading + Factor

Margin = Level – Limit

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



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1	Temperature	: 20 °C
Test Date	: Feb. 09, 2018	Humidity	: 40 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	9.91	36.41	46.32	65.99	-19.67	QP	P
2	0.1500	9.91	24.25	34.16	55.99	-21.83	AVG	P
3	0.1819	9.91	31.44	41.35	64.39	-23.04	QP	P
4	0.1819	9.91	20.93	30.84	54.39	-23.55	AVG	P
5	0.2300	9.91	28.16	38.07	62.45	-24.38	QP	P
6	0.2300	9.91	20.83	30.74	52.45	-21.71	AVG	P
7	0.3620	9.93	29.79	39.72	58.68	-18.96	QP	P
8	0.3620	9.93	26.33	36.26	48.68	-12.42	AVG	P
9	1.4580	9.98	18.99	28.97	56.00	-27.03	QP	P
10	1.4580	9.98	11.90	21.88	46.00	-24.12	AVG	P
11	3.7140	10.08	18.15	28.23	56.00	-27.77	QP	P
12	3.7140	10.08	11.79	21.87	46.00	-24.13	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

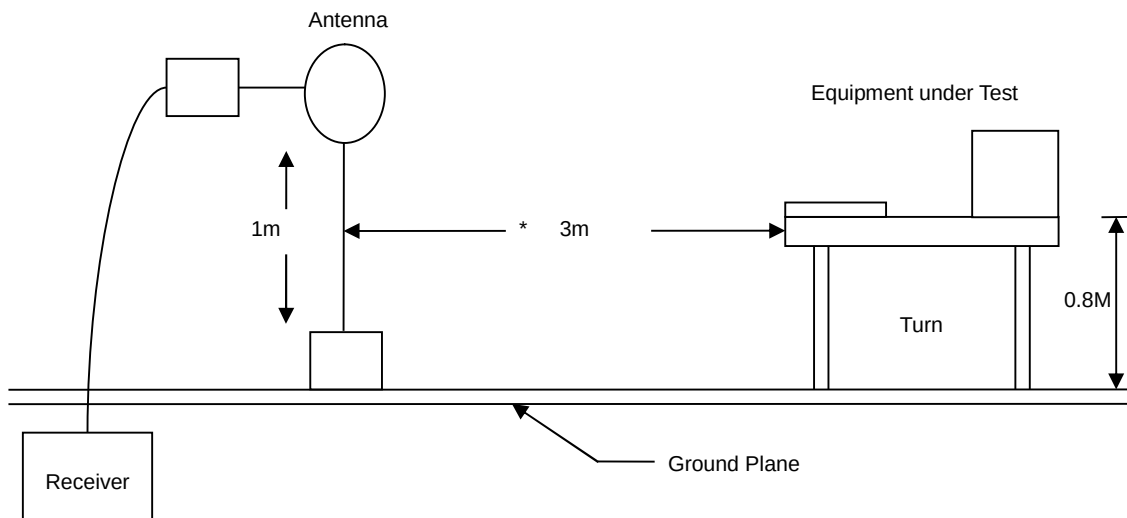
6.2 Test Procedures

- 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.

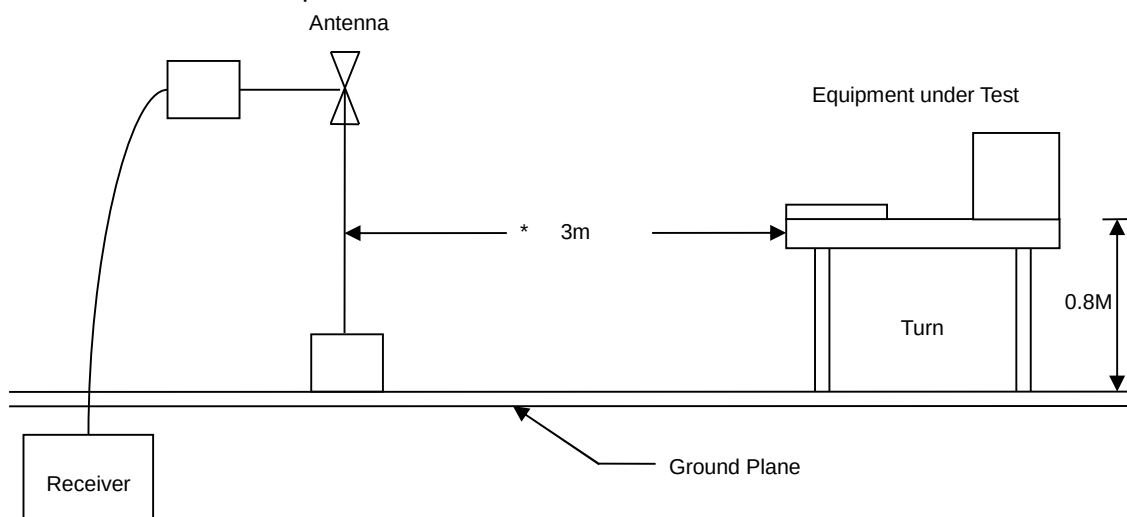


6.3 Typical Test Setup

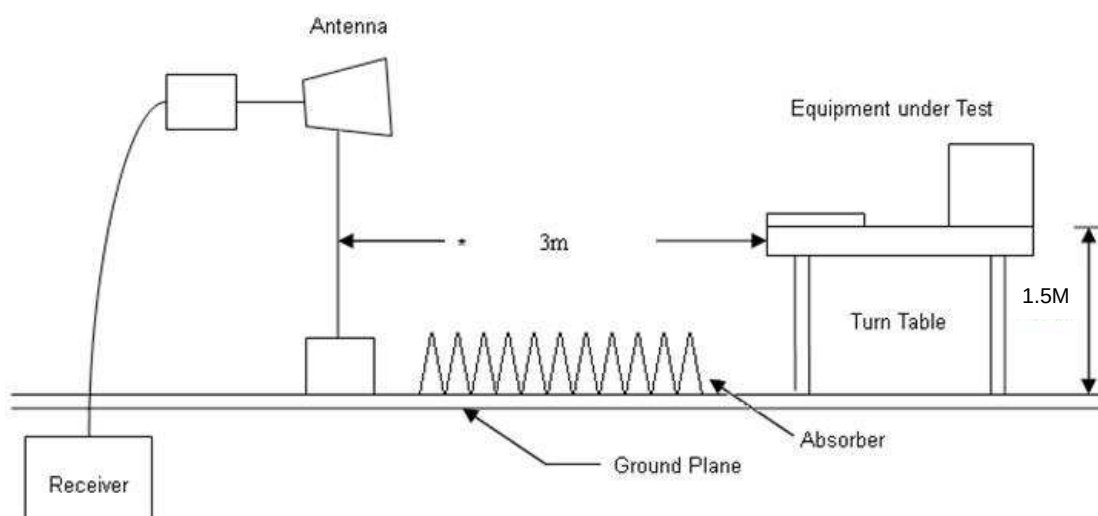
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



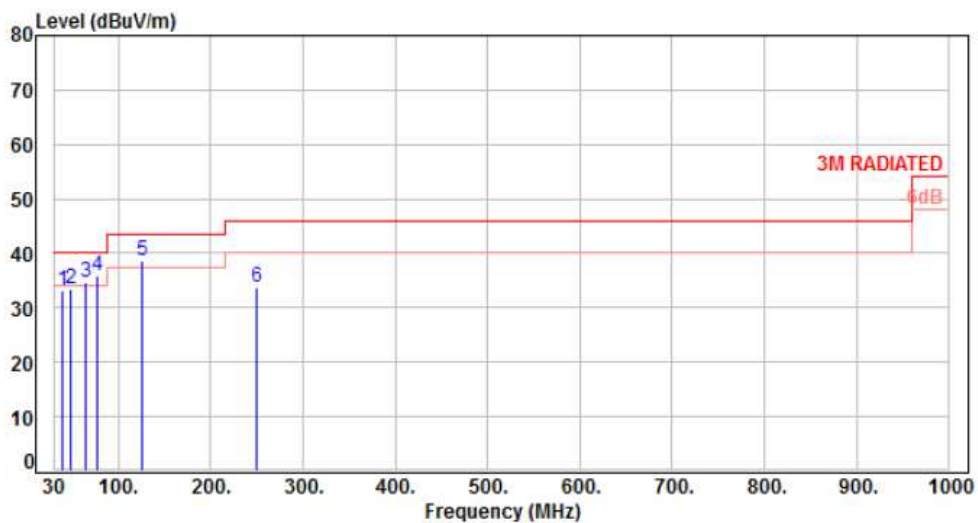


6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Feb. 11, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	39.88	-10.36	43.44	33.08	40.00	-6.92	QP	100	144	P
2	48.37	-9.77	43.17	33.40	40.00	-6.60	QP	100	208	P
3	63.73	-10.89	45.67	34.78	40.00	-5.22	QP	105	133	P
4	77.51	-13.68	49.58	35.90	40.00	-4.10	Peak	400	0	P
5	125.05	-11.94	50.45	38.51	43.50	-4.99	QP	100	88	P
6	250.00	-10.63	44.36	33.73	46.00	-12.27	Peak	400	0	P

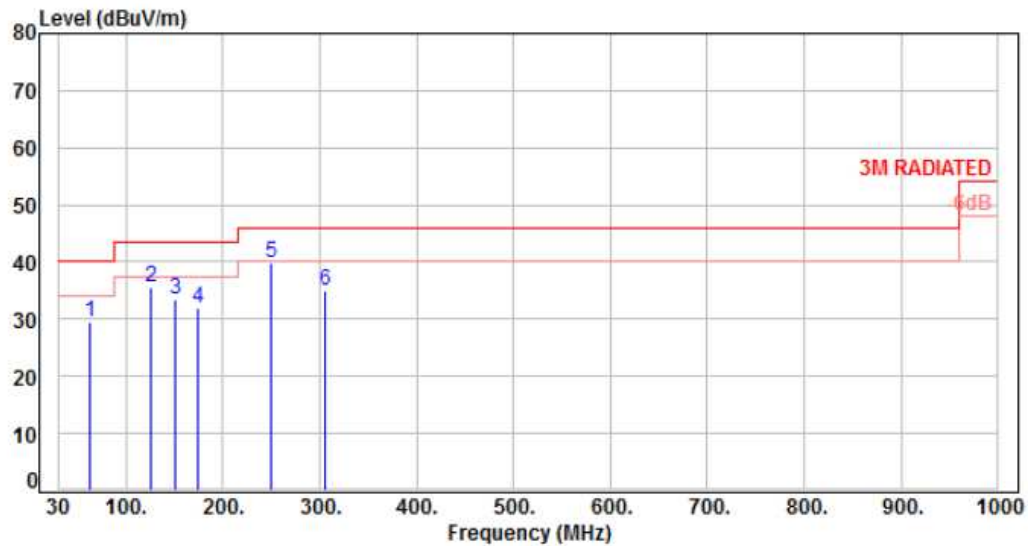
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Feb. 11, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	62.35	-10.65	40.10	29.45	40.00	-10.55	Peak	100	0	P
2	125.05	-11.94	47.62	35.68	43.50	-7.82	Peak	100	0	P
3	150.85	-10.06	43.65	33.59	43.50	-9.91	Peak	100	0	P
4	173.61	-10.47	42.44	31.97	43.50	-11.53	Peak	100	0	P
5	250.11	-10.63	50.33	39.70	46.00	-6.30	Peak	100	0	P
6	305.66	-8.65	43.74	35.09	46.00	-10.91	Peak	100	0	P

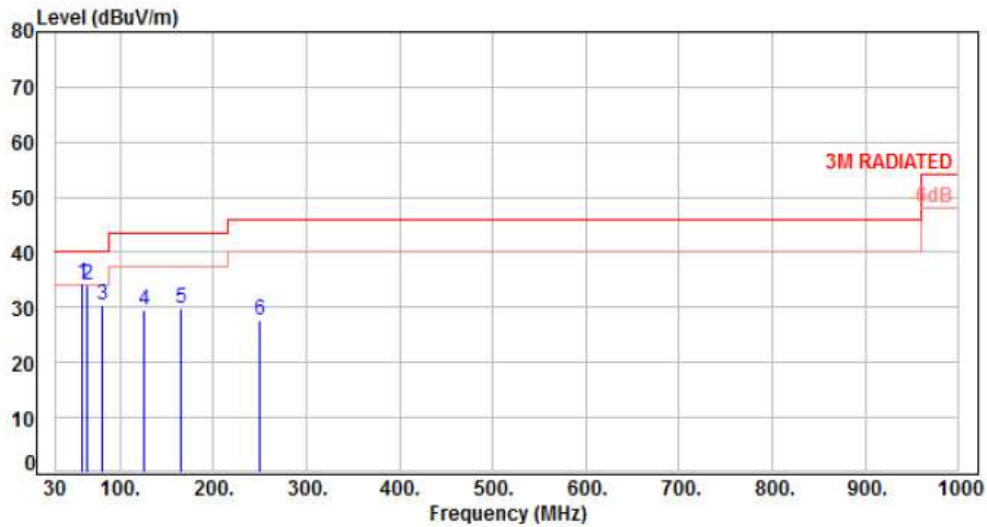
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Feb. 11, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	59.15	-10.21	44.54	34.33	40.00	-5.67	Peak	400	0	P
2	65.36	-11.18	45.28	34.10	40.00	-5.90	Peak	400	0	P
3	80.43	-14.31	44.73	30.42	40.00	-9.58	Peak	400	0	P
4	125.05	-11.94	41.32	29.38	43.50	-14.12	Peak	400	0	P
5	165.48	-9.97	39.77	29.80	43.50	-13.70	Peak	400	0	P
6	250.50	-10.62	38.36	27.74	46.00	-18.26	Peak	400	0	P

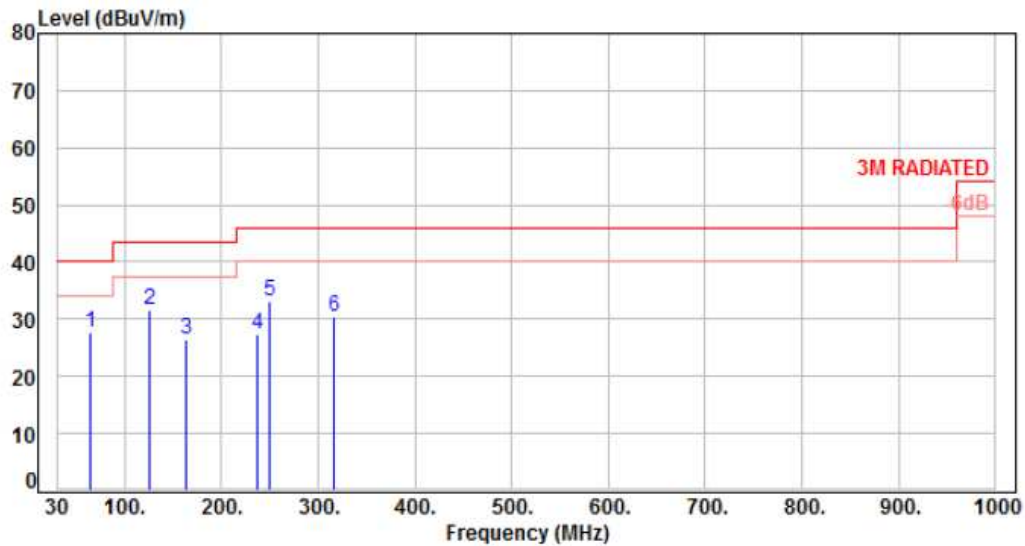
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Feb. 11, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	65.35	-11.18	38.94	27.76	40.00	-12.24	Peak	100	0	P
2	125.22	-11.92	43.52	31.60	43.50	-11.90	Peak	100	0	P
3	163.84	-9.93	36.48	26.55	43.50	-16.95	Peak	100	0	P
4	237.88	-10.98	38.49	27.51	46.00	-18.49	Peak	100	0	P
5	250.50	-10.62	43.67	33.05	46.00	-12.95	Peak	100	0	P
6	316.24	-8.37	38.77	30.40	46.00	-15.60	Peak	100	0	P

Note: Level=Reading+Factor

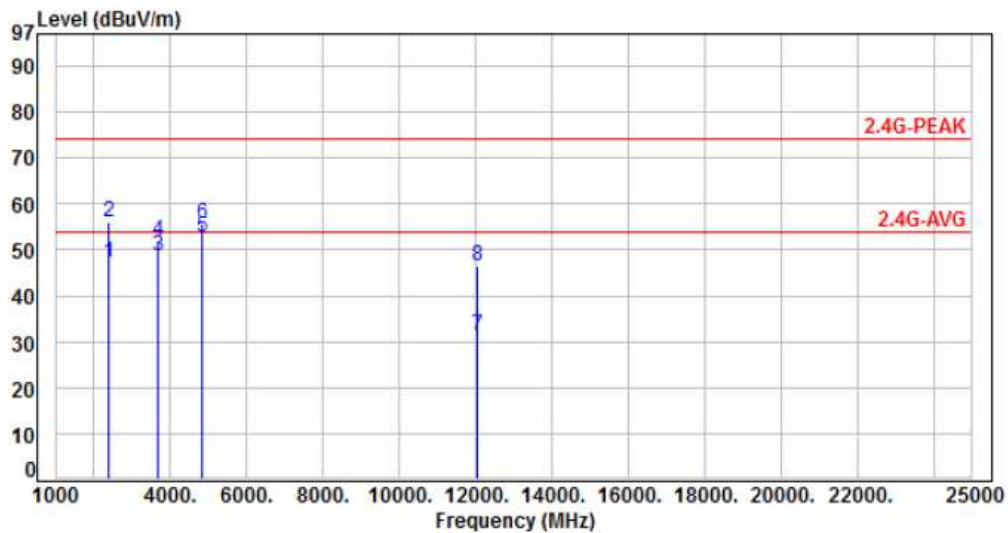
Margin=Level-Limit

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	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	61.82	47.37	54.00	-6.63	Average	105	221	P
2	2390.00	-14.45	70.50	56.05	74.00	-17.95	Peak	105	221	P
3	3666.00	-9.40	58.22	48.82	54.00	-5.18	Average	145	133	P
4	3666.00	-9.40	61.34	51.94	74.00	-22.06	Peak	145	133	P
5	4824.00	-6.59	59.20	52.61	54.00	-1.39	Average	363	115	P
6	4824.00	-6.59	62.30	55.71	74.00	-18.29	Peak	363	115	P
7	12060.00	5.00	26.40	31.40	54.00	-22.60	Average	100	42	P
8	12060.00	5.00	41.50	46.50	74.00	-27.50	Peak	100	42	P

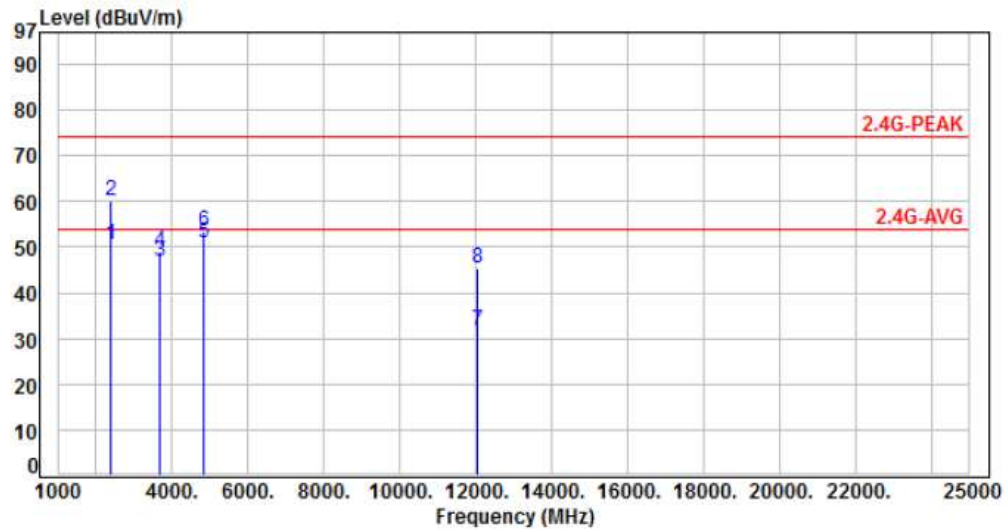
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	64.80	50.35	54.00	-3.65	Average	120	220	P
2	2390.00	-14.45	74.60	60.15	74.00	-13.85	Peak	120	220	P
3	3666.00	-9.40	56.41	47.01	54.00	-6.99	Average	150	144	P
4	3666.00	-9.40	58.53	49.13	74.00	-24.87	Peak	150	144	P
5	4824.00	-6.59	57.40	50.81	54.00	-3.19	Average	123	357	P
6	4824.00	-6.59	59.90	53.31	74.00	-20.69	Peak	123	357	P
7	12060.00	5.00	26.90	31.90	54.00	-22.10	Average	106	332	P
8	12060.00	5.00	40.50	45.50	74.00	-28.50	Peak	106	332	P

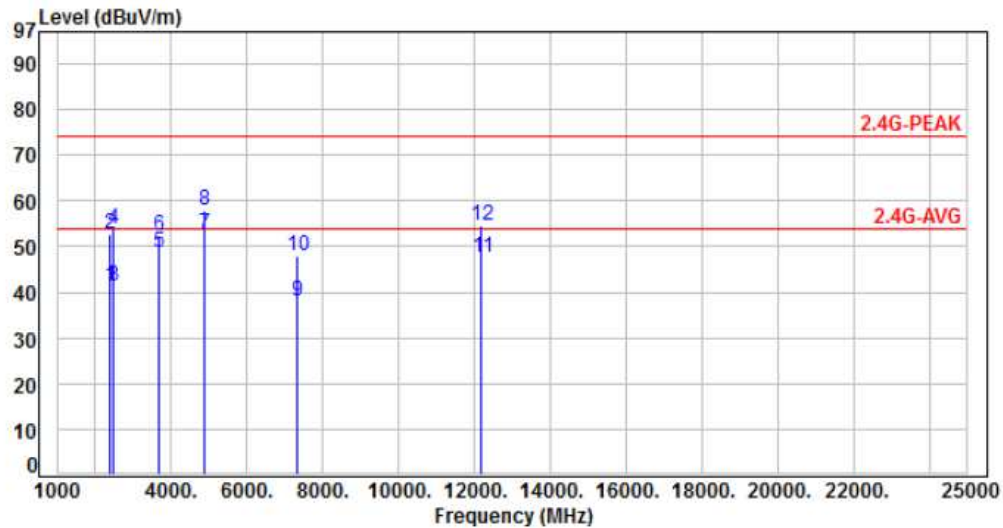
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	55.80	41.35	54.00	-12.65	Average	106	360	P
2	2390.00	-14.45	67.10	52.65	74.00	-21.35	Peak	106	360	P
3	2483.50	-14.10	55.40	41.30	54.00	-12.70	Average	106	360	P
4	2483.50	-14.10	67.80	53.70	74.00	-20.30	Peak	106	360	P
5	3666.66	-9.39	58.10	48.71	54.00	-5.29	Average	143	131	P
6	3666.66	-9.39	61.60	52.21	74.00	-21.79	Peak	143	131	P
7	4874.00	-6.42	59.33	52.91	54.00	-1.09	Average	354	115	P
8	4874.00	-6.42	64.20	57.78	74.00	-16.22	Peak	354	115	P
9	7311.00	-1.90	39.99	38.09	54.00	-15.91	Average	339	190	P
10	7311.00	-1.90	49.79	47.89	74.00	-26.11	Peak	339	190	P
11	12185.00	5.14	42.41	47.55	54.00	-6.45	Average	100	329	P
12	12185.00	5.14	49.61	54.75	74.00	-19.25	Peak	100	329	P

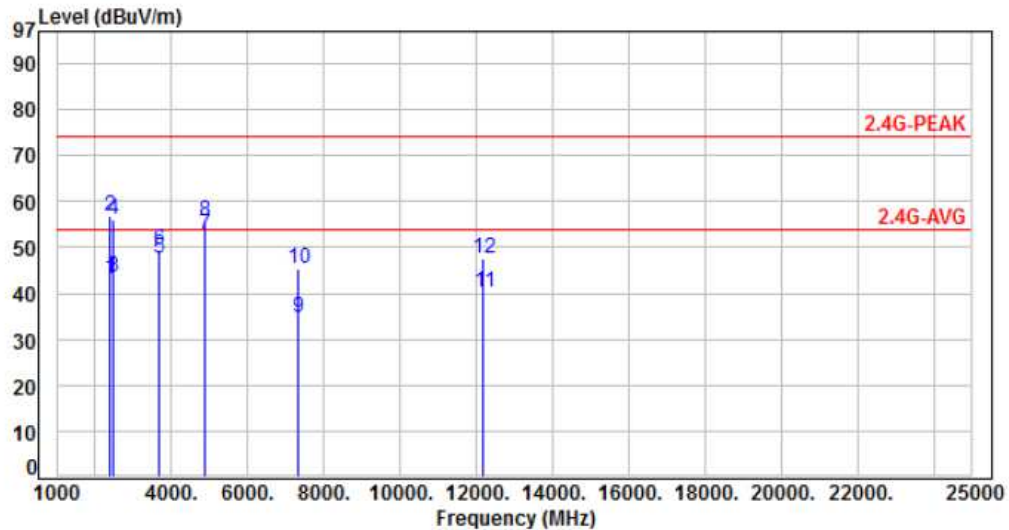
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	57.70	43.25	54.00	-10.75	Average	230	40	P
2	2390.00	-14.45	71.20	56.75	74.00	-17.25	Peak	230	40	P
3	2483.50	-14.10	57.60	43.50	54.00	-10.50	Average	230	40	P
4	2483.50	-14.10	70.20	56.10	74.00	-17.90	Peak	230	40	P
5	3666.66	-9.39	57.12	47.73	54.00	-6.27	Average	172	120	P
6	3666.66	-9.39	58.90	49.51	74.00	-24.49	Peak	172	120	P
7	4874.00	-6.42	59.30	52.88	54.00	-1.12	Average	169	240	P
8	4874.00	-6.42	62.11	55.69	74.00	-18.31	Peak	169	240	P
9	7311.00	-1.90	36.49	34.59	54.00	-19.41	Average	384	95	P
10	7311.00	-1.90	47.19	45.29	74.00	-28.71	Peak	384	95	P
11	12185.00	5.14	35.23	40.37	54.00	-13.63	Average	100	191	P
12	12185.00	5.14	42.61	47.75	74.00	-26.25	Peak	100	191	P

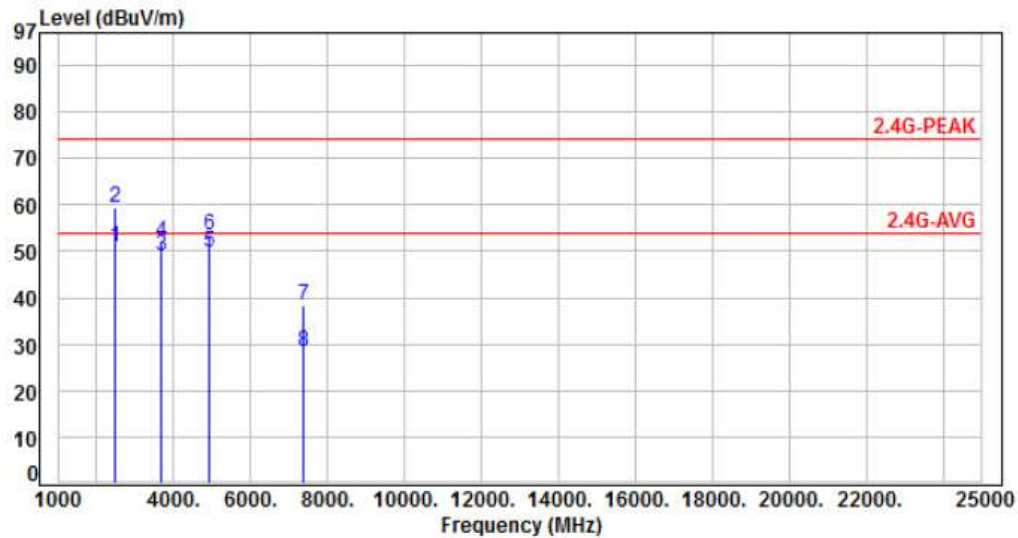
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	65.00	50.90	54.00	-3.10	Average	100	180	P
2	2483.50	-14.10	73.60	59.50	74.00	-14.50	Peak	100	180	P
3	3666.20	-9.39	58.45	49.06	54.00	-4.94	Average	143	152	P
4	3666.20	-9.39	61.32	51.93	74.00	-22.07	Peak	143	152	P
5	4924.00	-6.25	56.19	49.94	54.00	-4.06	Average	259	120	P
6	4924.00	-6.25	59.89	53.64	74.00	-20.36	Peak	259	120	P
7	7386.00	-1.67	40.19	38.52	54.00	-15.48	Average	100	152	P
8	7386.00	-1.67	30.19	28.52	74.00	-45.48	Peak	100	152	P

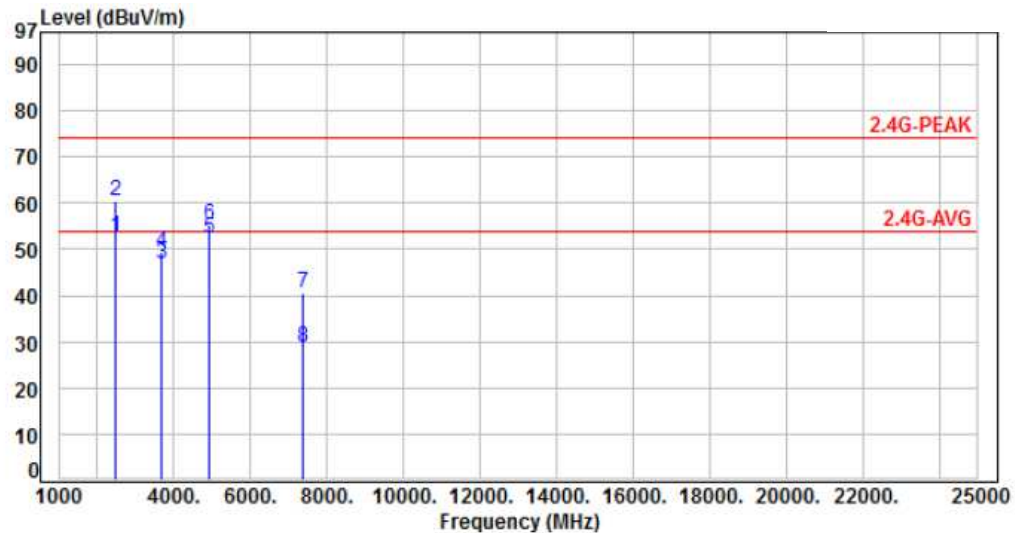
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	67.00	52.90	54.00	-1.10	Average	157	347	P
2	2483.50	-14.10	74.60	60.50	74.00	-13.50	Peak	157	347	P
3	3666.20	-9.39	56.12	46.73	54.00	-7.27	Average	151	147	P
4	3666.20	-9.39	58.92	49.53	74.00	-24.47	Peak	151	147	P
5	4924.00	-6.25	58.59	52.34	54.00	-1.66	Average	141	236	P
6	4924.00	-6.25	61.64	55.39	74.00	-18.61	Peak	141	236	P
7	7386.00	-1.67	42.19	40.52	54.00	-13.48	Average	200	321	P
8	7386.00	-1.67	30.40	28.73	74.00	-45.27	Peak	200	321	P

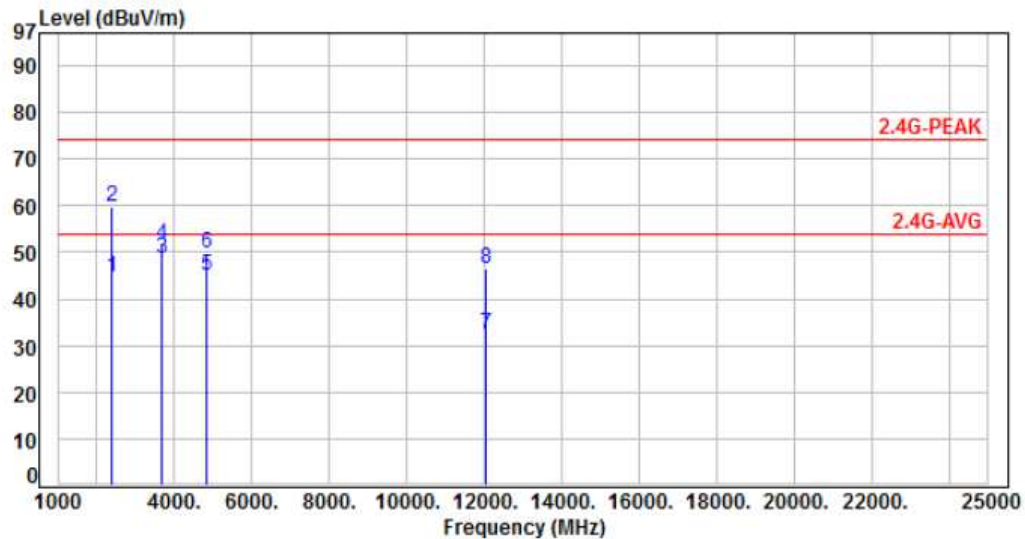
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	59.00	44.55	54.00	-9.45	Average	366	355	P
2	2390.00	-14.45	74.10	59.65	74.00	-14.35	Peak	366	355	P
3	3666.66	-9.39	58.00	48.61	54.00	-5.39	Average	140	132	P
4	3666.66	-9.39	61.20	51.81	74.00	-22.19	Peak	140	132	P
5	4824.00	-6.59	51.63	45.04	54.00	-8.96	Average	345	110	P
6	4824.00	-6.59	56.20	49.61	74.00	-24.39	Peak	345	110	P
7	12060.00	5.00	27.30	32.30	54.00	-21.70	Average	102	55	P
8	12060.00	5.00	41.55	46.55	74.00	-27.45	Peak	102	55	P

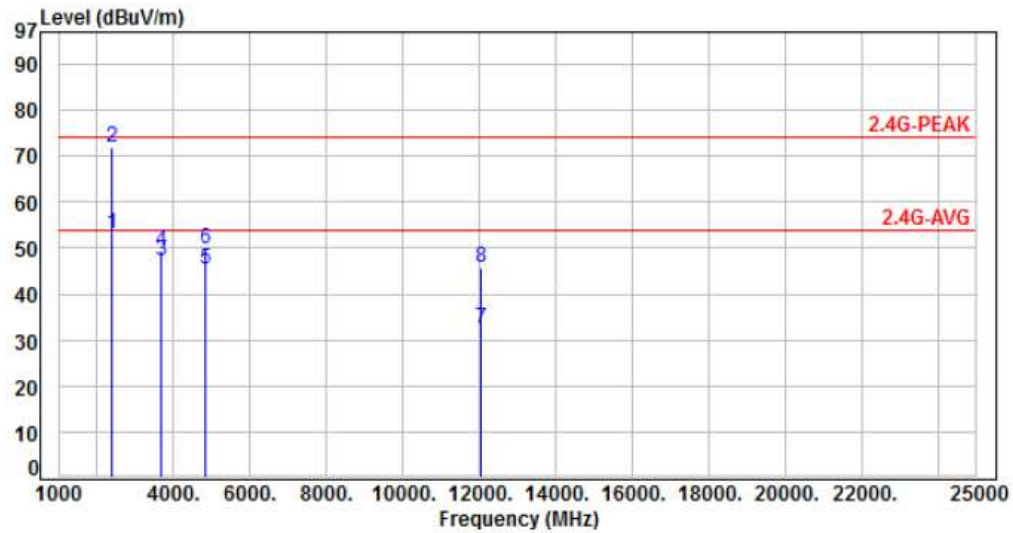
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	67.40	52.95	54.00	-1.05	Average	150	320	P
2	2390.00	-14.45	86.20	71.75	74.00	-2.25	Peak	150	320	P
3	3666.66	-9.39	56.47	47.08	54.00	-6.92	Average	151	132	P
4	3666.66	-9.39	58.67	49.28	74.00	-24.72	Peak	151	132	P
5	4824.00	-6.59	51.90	45.31	54.00	-8.69	Average	153	114	P
6	4824.00	-6.59	56.50	49.91	74.00	-24.09	Peak	153	114	P
7	12060.00	5.00	27.33	32.33	54.00	-21.67	Average	100	352	P
8	12060.00	5.00	40.63	45.63	74.00	-28.37	Peak	100	352	P

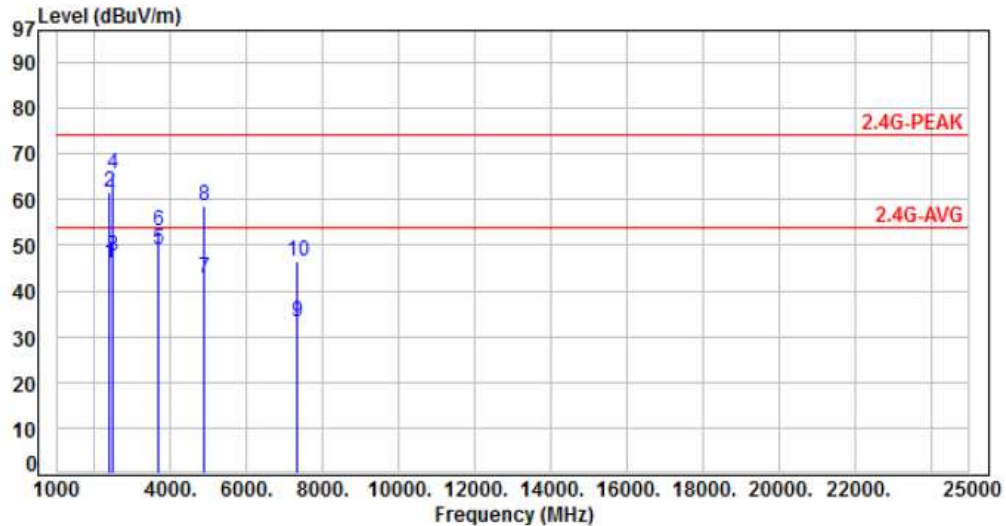
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2387.00	-14.46	60.50	46.04	54.00	-7.96	Average	142	183	P
2	2387.00	-14.46	76.20	61.74	74.00	-12.26	Peak	142	183	P
3	2483.50	-14.10	61.70	47.60	54.00	-6.40	Average	142	182	P
4	2483.50	-14.10	79.60	65.50	74.00	-8.50	Peak	142	182	P
5	3666.00	-9.40	58.53	49.13	54.00	-4.87	Average	148	163	P
6	3666.00	-9.40	62.34	52.94	74.00	-21.06	Peak	148	163	P
7	4874.00	-6.42	49.30	42.88	54.00	-11.12	Average	120	52	P
8	4874.00	-6.42	65.08	58.66	74.00	-15.34	Peak	120	52	P
9	7311.00	-1.90	35.26	33.36	54.00	-20.64	Average	100	108	P
10	7311.00	-1.90	48.51	46.61	74.00	-27.39	Peak	100	108	P

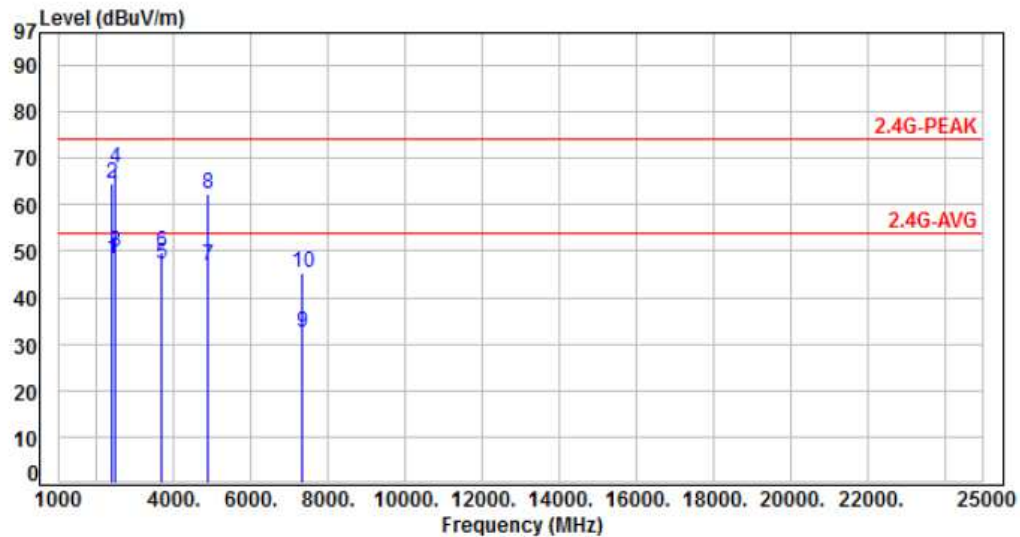
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2387.00	-14.46	62.70	48.24	54.00	-5.76	Average	282	300	P
2	2387.00	-14.46	78.90	64.44	74.00	-9.56	Peak	282	300	P
3	2483.50	-14.10	64.00	49.90	54.00	-4.10	Average	282	300	P
4	2483.50	-14.10	82.00	67.90	74.00	-6.10	Peak	282	300	P
5	3666.00	-9.40	56.49	47.09	54.00	-6.91	Average	112	345	P
6	3666.00	-9.40	59.36	49.96	74.00	-24.04	Peak	112	345	P
7	4874.00	-6.42	53.20	46.78	54.00	-7.22	Average	100	355	P
8	4874.00	-6.42	68.60	62.18	74.00	-11.82	Peak	100	355	P
9	7311.00	-1.90	34.53	32.63	54.00	-21.37	Average	152	214	P
10	7311.00	-1.90	47.11	45.21	74.00	-28.79	Peak	152	214	P

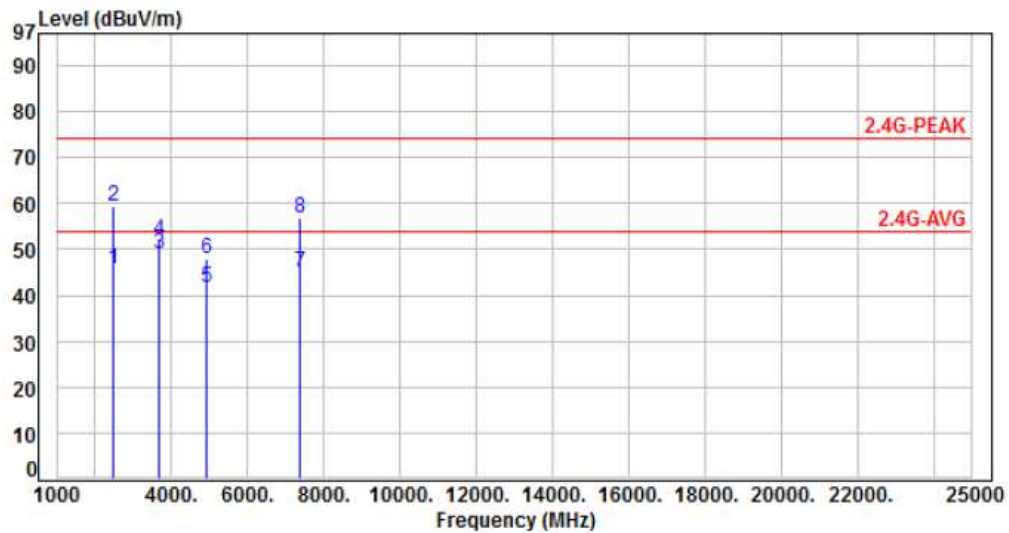
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	59.80	45.70	54.00	-8.30	Average	271	300	P
2	2483.50	-14.10	73.50	59.40	74.00	-14.60	Peak	271	300	P
3	3666.00	-9.40	58.45	49.05	54.00	-4.95	Average	140	152	P
4	3666.00	-9.40	61.53	52.13	74.00	-21.87	Peak	140	152	P
5	4924.00	-6.25	48.05	41.80	54.00	-12.20	Average	348	145	P
6	4924.00	-6.25	54.13	47.88	74.00	-26.12	Peak	348	145	P
7	7386.00	-1.67	46.52	44.85	54.00	-9.15	Average	160	122	P
8	7386.00	-1.67	58.55	56.88	74.00	-17.12	Peak	160	122	P

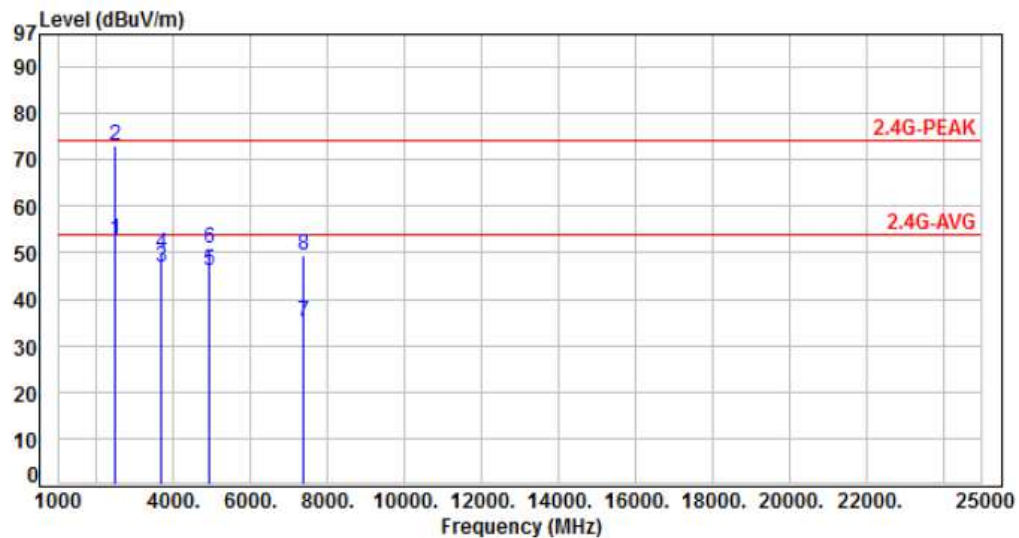
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	66.80	52.70	54.00	-1.30	Average	100	34	P
2	2483.50	-14.10	87.10	73.00	74.00	-1.00	Peak	100	34	P
3	3666.00	-9.40	56.23	46.83	54.00	-7.17	Average	143	152	P
4	3666.00	-9.40	59.33	49.93	74.00	-24.07	Peak	143	152	P
5	4924.00	-6.25	52.49	46.24	54.00	-7.76	Average	172	110	P
6	4924.00	-6.25	57.19	50.94	74.00	-23.06	Peak	172	110	P
7	7386.00	-1.67	36.55	34.88	54.00	-19.12	Average	104	188	P
8	7386.00	-1.67	50.97	49.30	74.00	-24.70	Peak	104	188	P

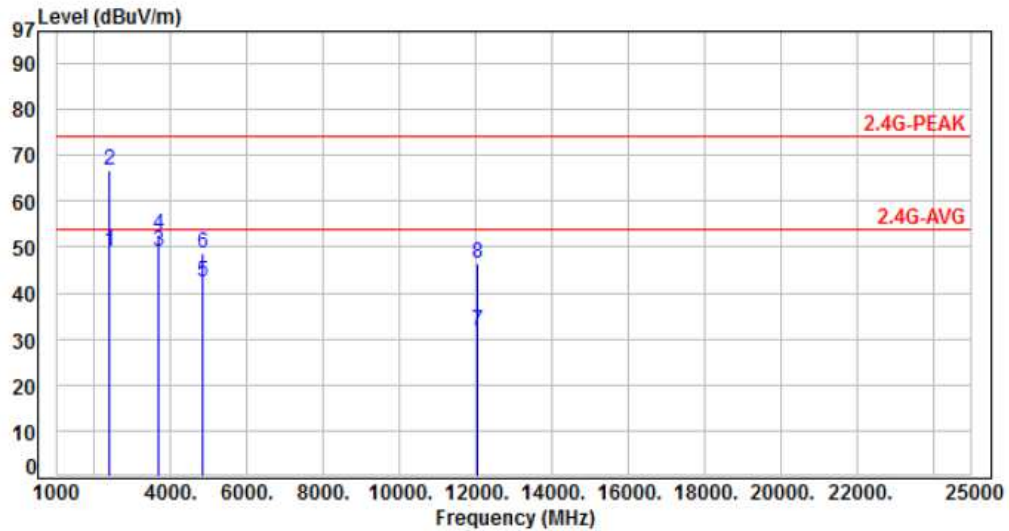
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	63.60	49.15	54.00	-4.85	Average	377	293	P
2	2390.00	-14.45	81.33	66.88	74.00	-7.12	Peak	377	293	P
3	3666.10	-9.39	58.46	49.07	54.00	-4.93	Average	147	139	P
4	3666.10	-9.39	62.30	52.91	74.00	-21.09	Peak	147	139	P
5	4824.00	-6.59	49.10	42.51	54.00	-11.49	Average	100	148	P
6	4824.00	-6.59	55.23	48.64	74.00	-25.36	Peak	100	148	P
7	12060.00	5.00	26.58	31.58	54.00	-22.42	Average	100	57	P
8	12060.00	5.00	41.33	46.33	74.00	-27.67	Peak	100	57	P

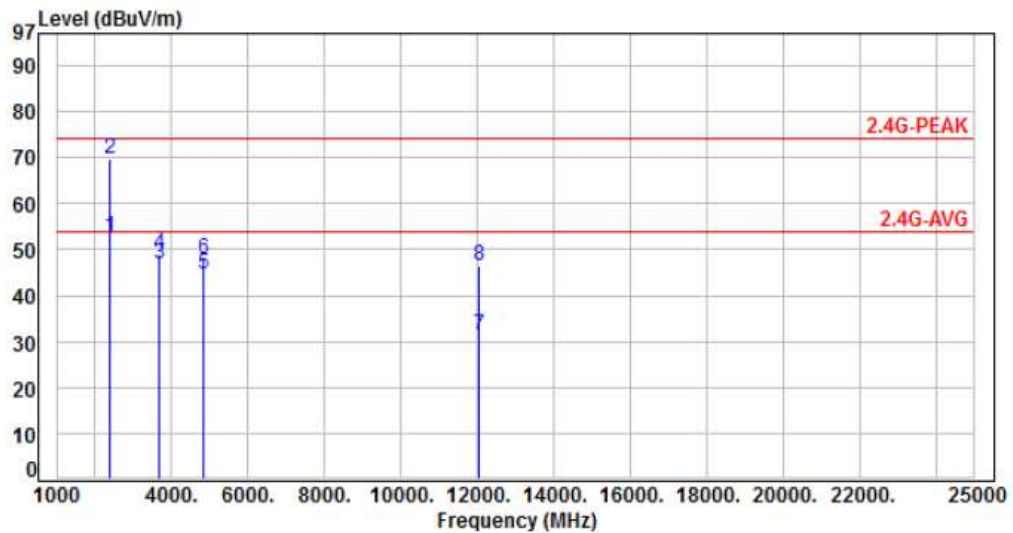
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH01	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	67.30	52.85	54.00	-1.15	Average	230	319	P
2	2390.00	-14.45	84.20	69.75	74.00	-4.25	Peak	230	319	P
3	3666.10	-9.39	56.14	46.75	54.00	-7.25	Average	154	263	P
4	3666.10	-9.39	58.44	49.05	74.00	-24.95	Peak	154	263	P
5	4824.00	-6.59	51.10	44.51	54.00	-9.49	Average	100	116	P
6	4824.00	-6.59	54.70	48.11	74.00	-25.89	Peak	100	116	P
7	12060.00	5.00	26.47	31.47	54.00	-22.53	Average	100	345	P
8	12060.00	5.00	41.33	46.33	74.00	-27.67	Peak	100	345	P

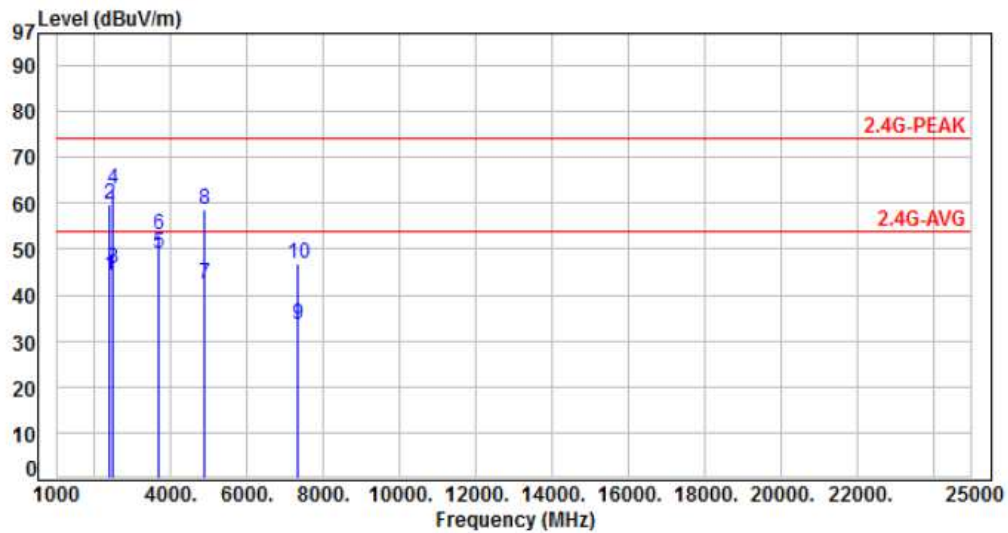
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	58.66	44.21	54.00	-9.79	Average	144	213	P
2	2390.00	-14.45	74.19	59.74	74.00	-14.26	Peak	144	213	P
3	2483.50	-14.10	59.75	45.65	54.00	-8.35	Average	144	213	P
4	2483.50	-14.10	77.24	63.14	74.00	-10.86	Peak	144	213	P
5	3666.00	-9.40	58.53	49.13	54.00	-4.87	Average	148	163	P
6	3666.00	-9.40	62.34	52.94	74.00	-21.06	Peak	148	163	P
7	4874.00	-6.42	48.79	42.37	54.00	-11.63	Average	117	14	P
8	4874.00	-6.42	64.98	58.56	74.00	-15.44	Peak	117	14	P
9	7311.00	-1.90	35.43	33.53	54.00	-20.47	Average	100	100	P
10	7311.00	-1.90	48.76	46.86	74.00	-27.14	Peak	100	100	P

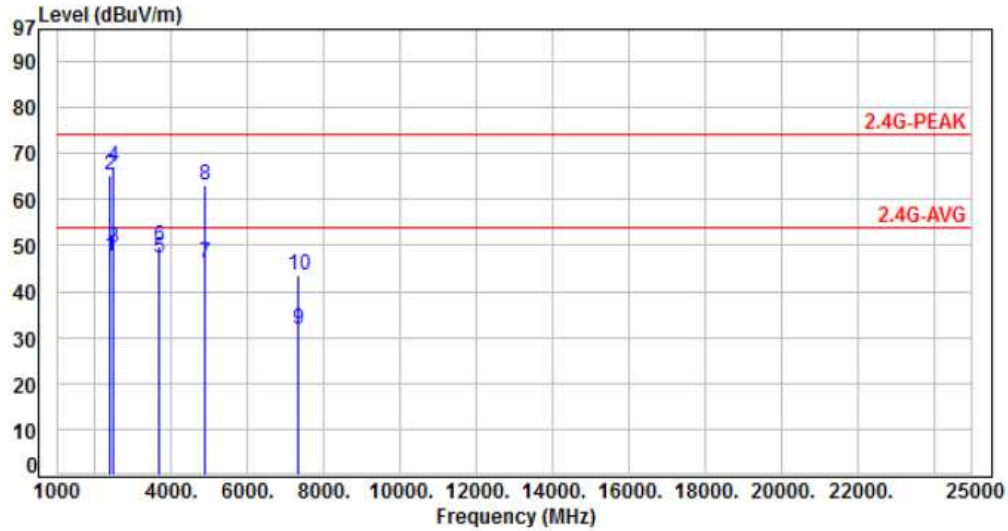
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	62.00	47.55	54.00	-6.45	Average	370	318	P
2	2390.00	-14.45	79.60	65.15	74.00	-8.85	Peak	370	318	P
3	2483.50	-14.10	63.60	49.50	54.00	-4.50	Average	234	318	P
4	2483.50	-14.10	81.20	67.10	74.00	-6.90	Peak	234	318	P
5	3666.00	-9.40	56.49	47.09	54.00	-6.91	Average	155	163	P
6	3666.00	-9.40	59.12	49.72	74.00	-24.28	Peak	155	163	P
7	4874.00	-6.42	52.50	46.08	54.00	-7.92	Average	101	355	P
8	4874.00	-6.42	69.50	63.08	74.00	-10.92	Peak	101	355	P
9	7311.00	-1.90	33.47	31.57	54.00	-22.43	Average	100	163	P
10	7311.00	-1.90	45.28	43.38	74.00	-30.62	Peak	100	163	P

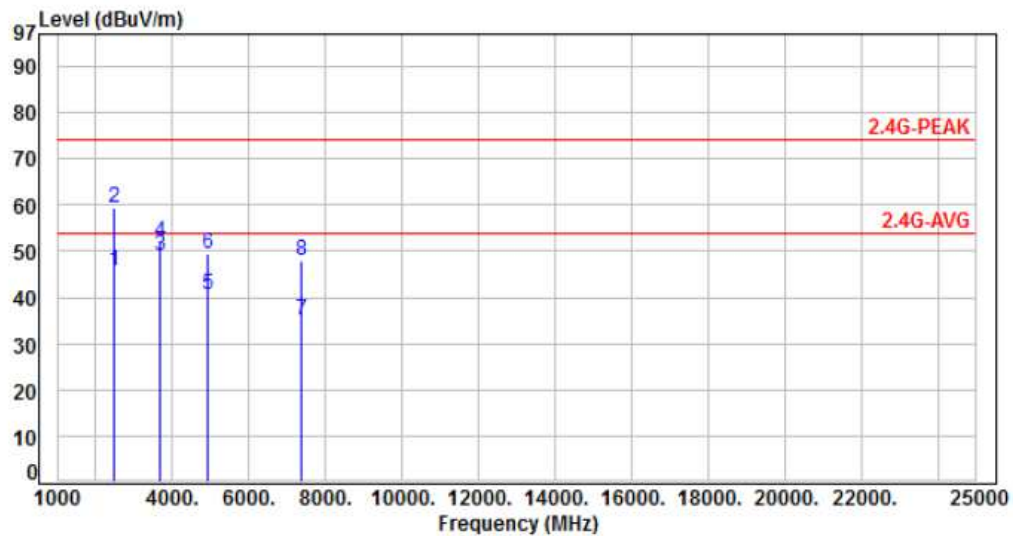
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	59.90	45.80	54.00	-8.20	Average	375	322	P
2	2483.50	-14.10	73.50	59.40	74.00	-14.60	Peak	375	322	P
3	3666.50	-9.39	58.34	48.95	54.00	-5.05	Average	100	152	P
4	3666.50	-9.39	61.44	52.05	74.00	-21.95	Peak	100	152	P
5	4924.00	-6.25	47.00	40.75	54.00	-13.25	Average	100	115	P
6	4924.00	-6.25	55.83	49.58	74.00	-24.42	Peak	100	115	P
7	7386.00	-1.67	36.81	35.14	54.00	-18.86	Average	100	155	P
8	7386.00	-1.67	49.62	47.95	74.00	-26.05	Peak	100	155	P

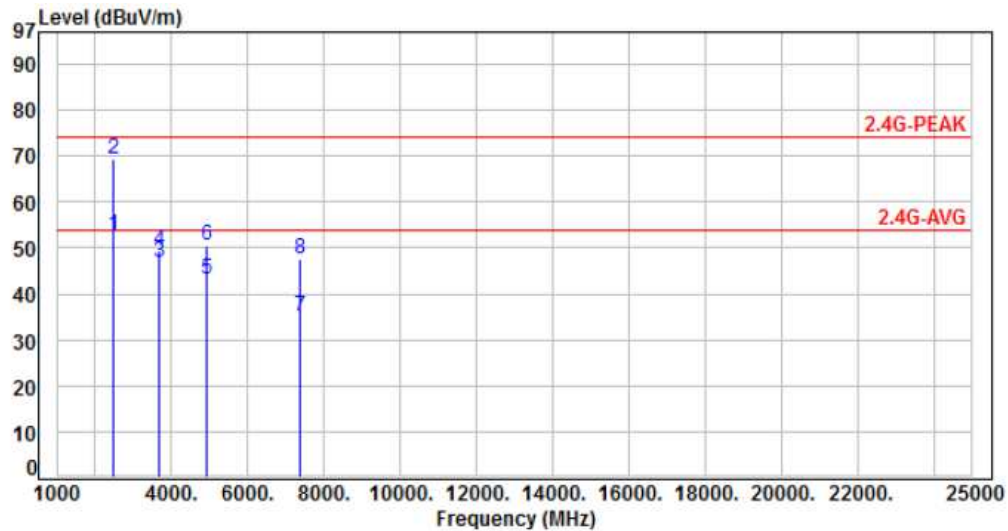
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH11	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	66.90	52.80	54.00	-1.20	Average	170	312	P
2	2483.50	-14.10	83.50	69.40	74.00	-4.60	Peak	170	312	P
3	3666.50	-9.39	56.34	46.95	54.00	-7.05	Average	156	124	P
4	3666.50	-9.39	58.88	49.49	74.00	-24.51	Peak	156	124	P
5	4924.00	-6.25	49.50	43.25	54.00	-10.75	Average	102	166	P
6	4924.00	-6.25	56.81	50.56	74.00	-23.44	Peak	102	166	P
7	7386.00	-1.67	36.82	35.15	54.00	-18.85	Average	100	188	P
8	7386.00	-1.67	49.25	47.58	74.00	-26.42	Peak	100	188	P

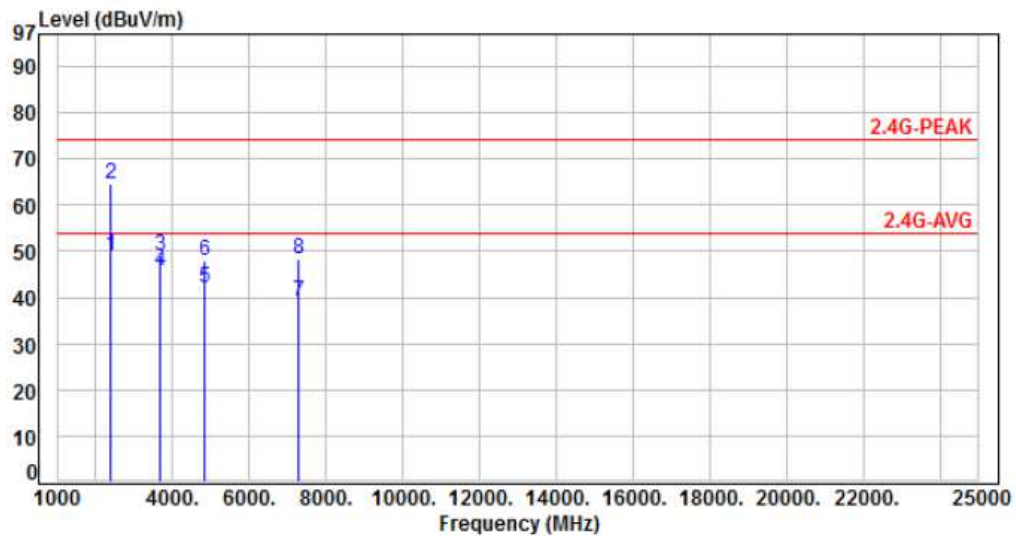
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH03	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	63.37	48.92	54.00	-5.08	Average	100	247	P
2	2390.00	-14.45	78.89	64.44	74.00	-9.56	Peak	100	247	P
3	3666.25	-9.39	58.44	49.05	54.00	-4.95	Average	155	163	P
4	3666.25	-9.39	55.28	45.89	74.00	-28.11	Peak	155	163	P
5	4844.00	-6.52	48.51	41.99	54.00	-12.01	Average	100	133	P
6	4844.00	-6.52	54.41	47.89	74.00	-26.11	Peak	100	133	P
7	7266.00	-2.05	41.01	38.96	54.00	-15.04	Average	247	311	P
8	7266.00	-2.05	50.35	48.30	74.00	-25.70	Peak	247	311	P

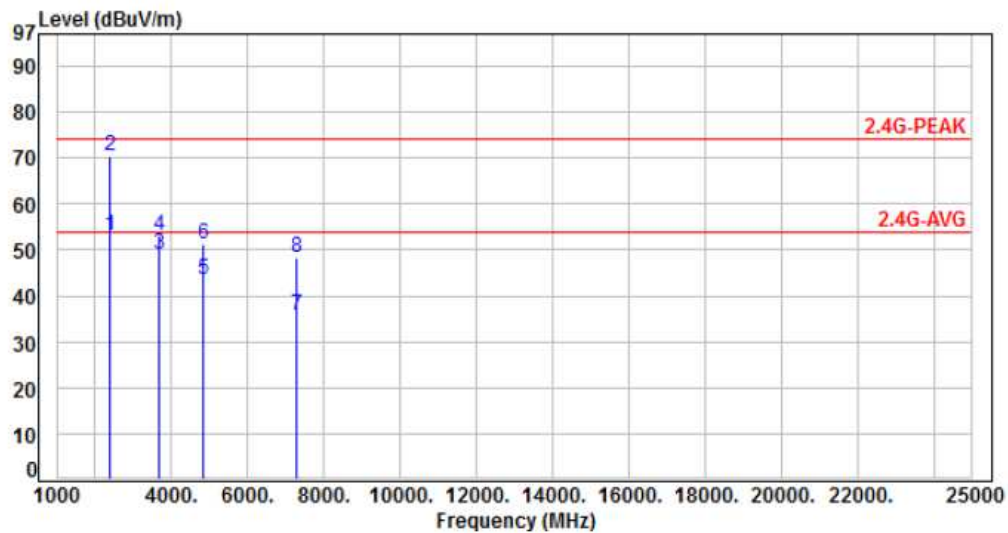
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH03	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	67.40	52.95	54.00	-1.05	Average	132	307	P
2	2390.00	-14.45	84.90	70.45	74.00	-3.55	Peak	132	307	P
3	3666.25	-9.39	58.36	48.97	54.00	-5.03	Average	146	185	P
4	3666.25	-9.39	62.44	53.05	74.00	-20.95	Peak	146	185	P
5	4844.00	-6.52	50.08	43.56	54.00	-10.44	Average	100	154	P
6	4844.00	-6.52	57.72	51.20	74.00	-22.80	Peak	100	154	P
7	7266.00	-2.05	37.65	35.60	54.00	-18.40	Average	100	224	P
8	7266.00	-2.05	50.27	48.22	74.00	-25.78	Peak	100	224	P

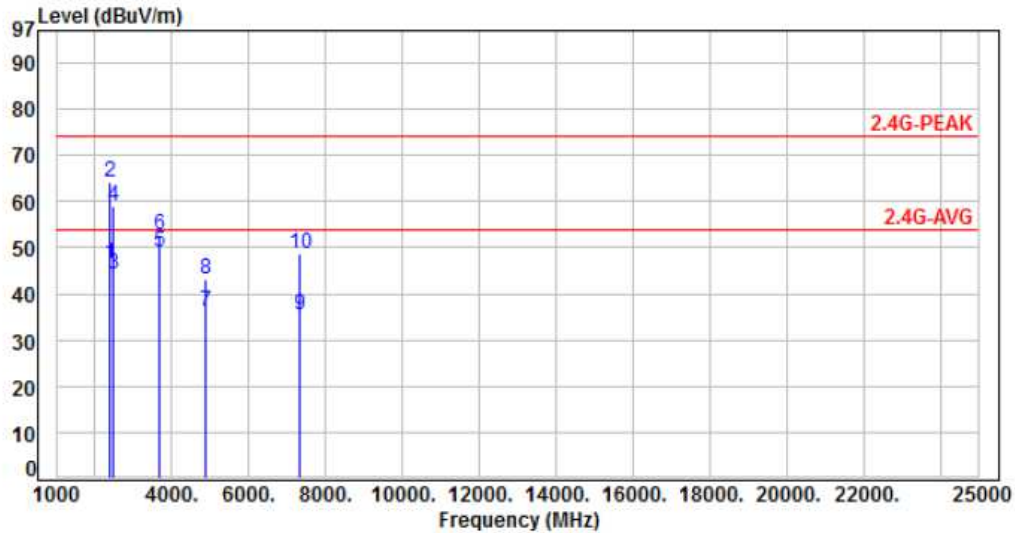
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	60.78	46.33	54.00	-7.67	Average	142	193	P
2	2390.00	-14.45	78.78	64.33	74.00	-9.67	Peak	142	193	P
3	2483.50	-14.10	58.46	44.36	54.00	-9.64	Average	142	193	P
4	2483.50	-14.10	73.26	59.16	74.00	-14.84	Peak	142	193	P
5	3666.00	-9.40	58.64	49.24	54.00	-4.76	Average	133	158	P
6	3666.00	-9.40	62.12	52.72	74.00	-21.28	Peak	133	158	P
7	4874.00	-6.42	42.58	36.16	54.00	-17.84	Average	100	356	P
8	4874.00	-6.42	49.44	43.02	74.00	-30.98	Peak	100	356	P
9	7311.00	-1.90	37.36	35.46	54.00	-18.54	Average	100	188	P
10	7311.00	-1.90	50.67	48.77	74.00	-25.23	Peak	100	188	P

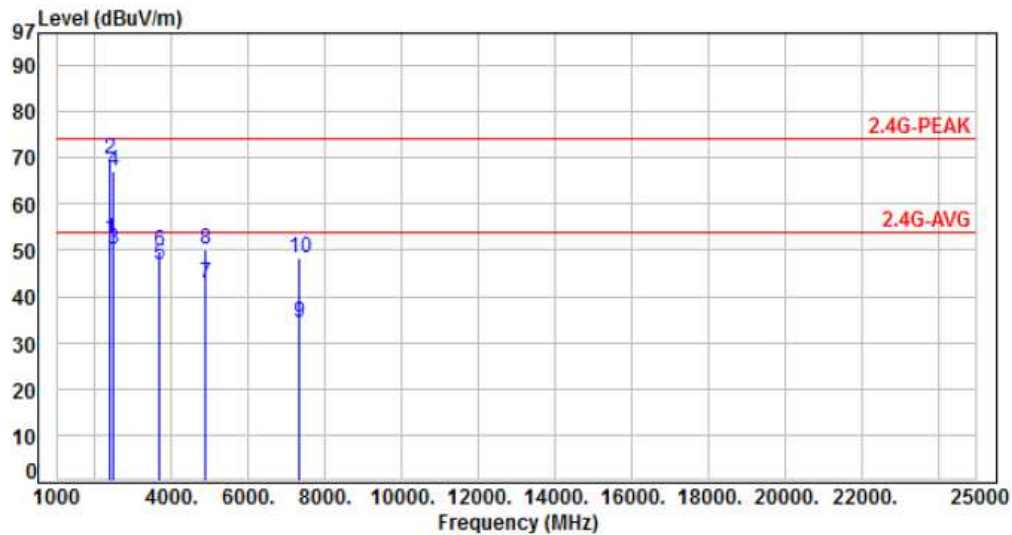
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH06	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	66.85	52.40	54.00	-1.60	Average	244	352	P
2	2390.00	-14.45	84.23	69.78	74.00	-4.22	Peak	244	352	P
3	2483.50	-14.10	64.43	50.33	54.00	-3.67	Average	244	352	P
4	2483.50	-14.10	81.25	67.15	74.00	-6.85	Peak	244	352	P
5	3666.00	-9.40	56.25	46.85	54.00	-7.15	Average	151	136	P
6	3666.00	-9.40	59.23	49.83	74.00	-24.17	Peak	151	136	P
7	4874.00	-6.42	49.28	42.86	54.00	-11.14	Average	100	155	P
8	4874.00	-6.42	56.76	50.34	74.00	-23.66	Peak	100	155	P
9	7311.00	-1.90	36.36	34.46	54.00	-19.54	Average	100	256	P
10	7311.00	-1.90	50.15	48.25	74.00	-25.75	Peak	100	256	P

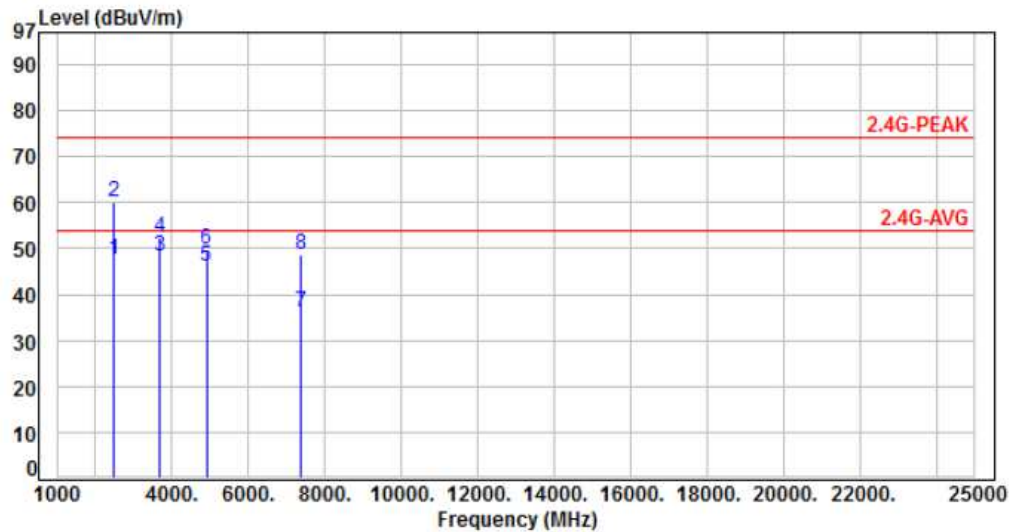
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH09	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	61.60	47.50	54.00	-6.50	Average	144	185	P
2	2483.50	-14.10	74.40	60.30	74.00	-13.70	Peak	144	185	P
3	3666.20	-9.39	57.58	48.19	54.00	-5.81	Average	133	142	P
4	3666.20	-9.39	61.77	52.38	74.00	-21.62	Peak	133	142	P
5	4904.00	-6.32	52.60	46.28	54.00	-7.72	Average	337	111	P
6	4904.00	-6.32	56.00	49.68	74.00	-24.32	Peak	337	111	P
7	7356.00	-1.77	38.09	36.32	54.00	-17.68	Average	100	142	P
8	7356.00	-1.77	50.43	48.66	74.00	-25.34	Peak	100	142	P

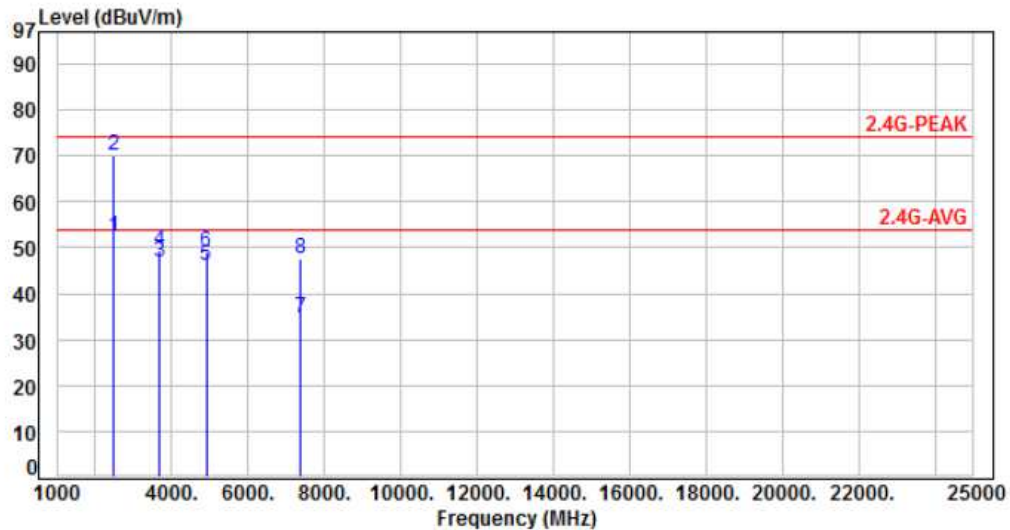
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH09	Temperature	: 24 °C
Test Date	: Feb. 08, 2018	Humidity	: 59 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	66.60	52.50	54.00	-1.50	Average	174	310	P
2	2483.50	-14.10	84.10	70.00	74.00	-4.00	Peak	174	310	P
3	3666.20	-9.39	56.34	46.95	54.00	-7.05	Average	157	152	P
4	3666.20	-9.39	58.66	49.27	74.00	-24.73	Peak	157	152	P
5	4904.00	-6.32	52.30	45.98	54.00	-8.02	Average	218	106	P
6	4904.00	-6.32	55.30	48.98	74.00	-25.02	Peak	218	106	P
7	7356.00	-1.77	36.35	34.58	54.00	-19.42	Average	133	214	P
8	7356.00	-1.77	49.39	47.62	74.00	-26.38	Peak	133	214	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

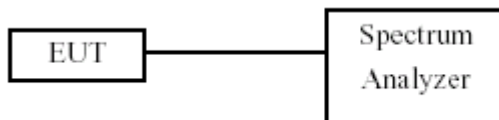
7.1 Test Limit

Below -30dB 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 30dB 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 : Feb. 08, 2018

Temperature : 21°C

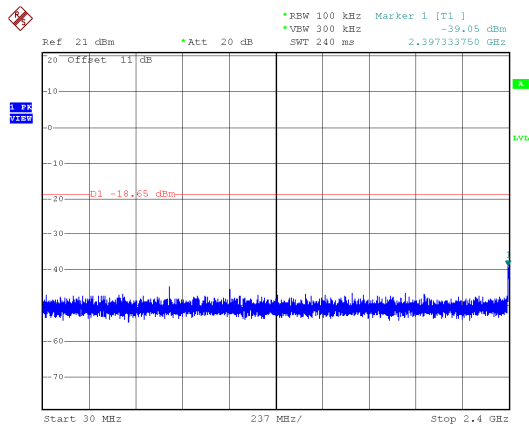
Humidity : 64%

Note: Test plots refers to the following pages.

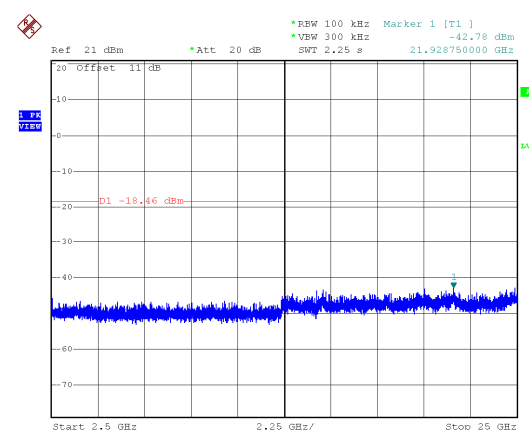
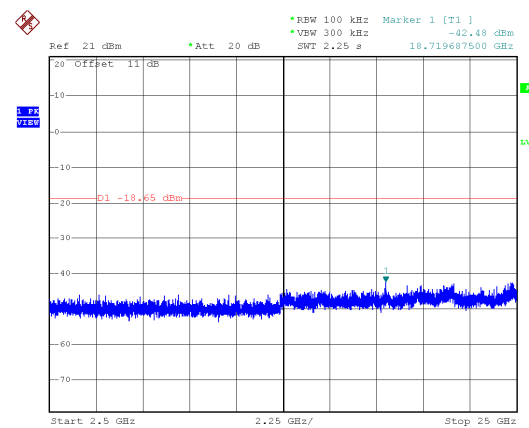
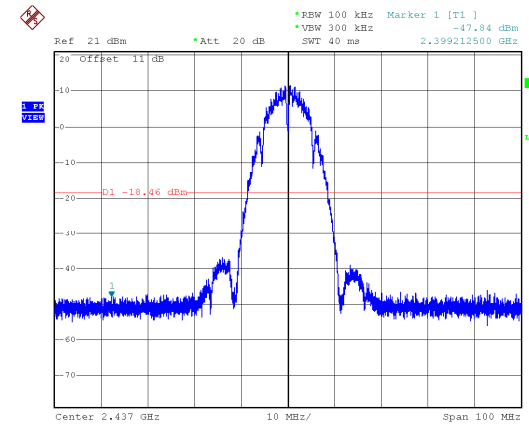
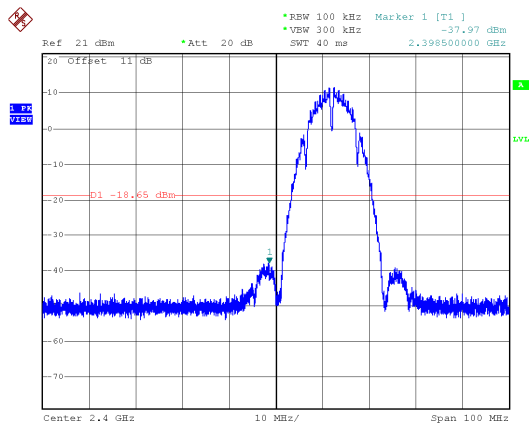
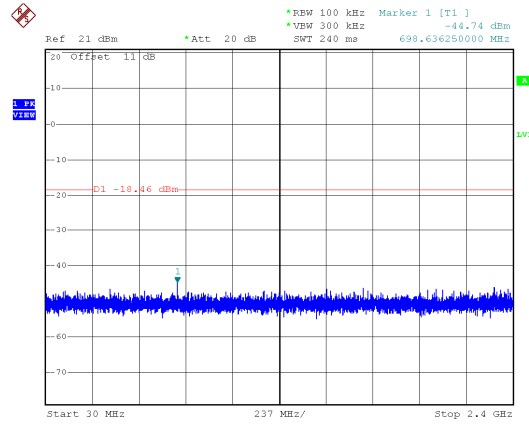


ANT A

Modulation Type: 802.11b, CH 01

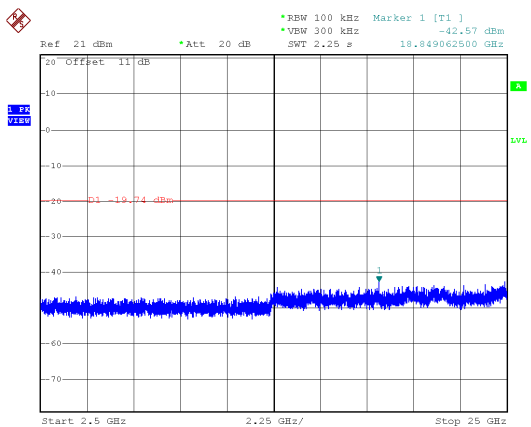
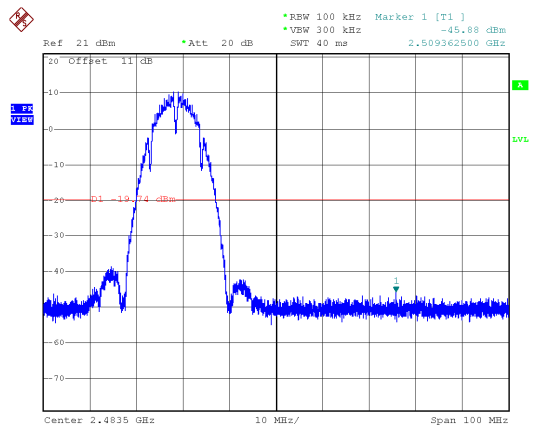
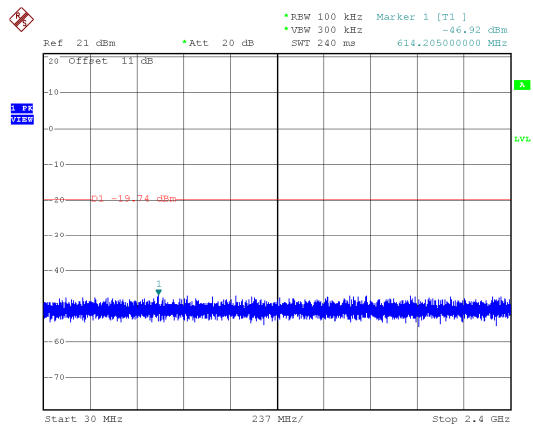


Modulation Type: 802.11b, CH 06





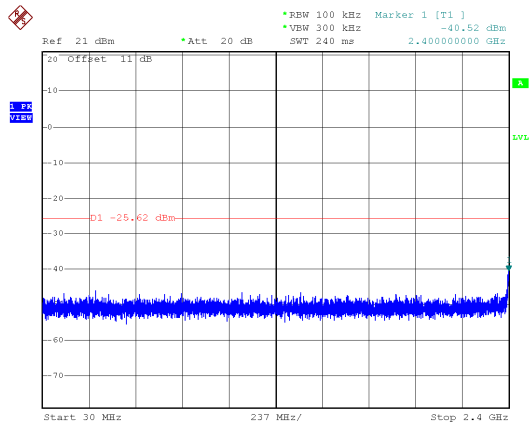
Modulation Type: 802.11b, CH 11



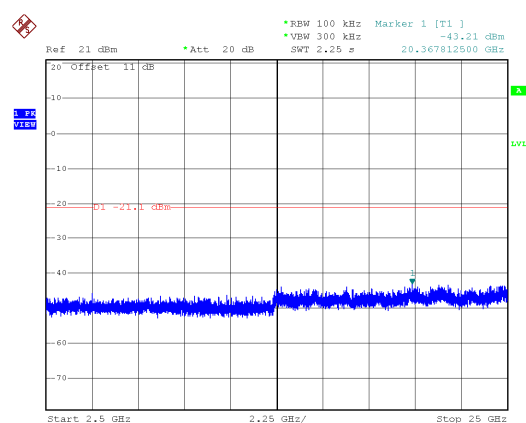
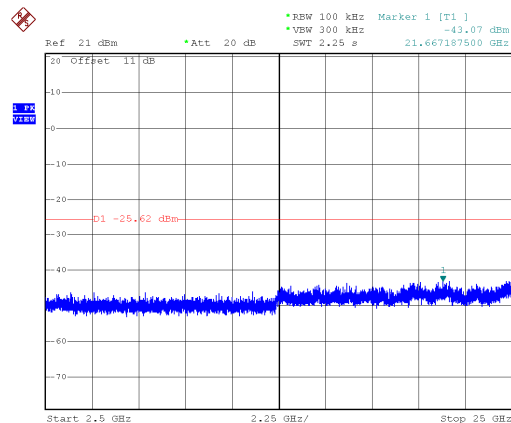
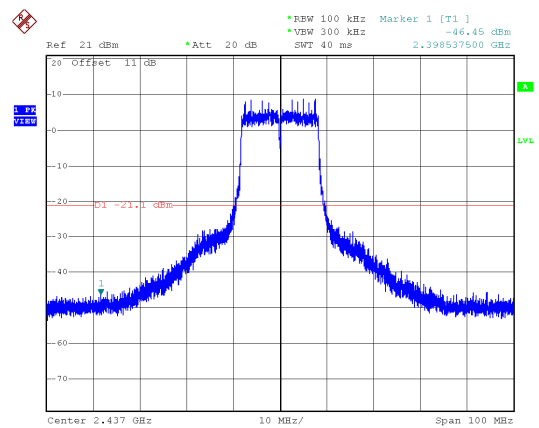
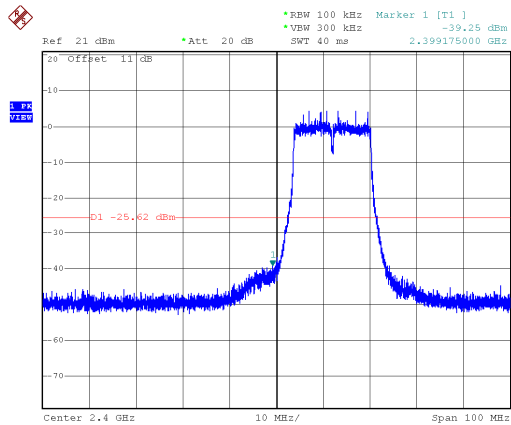
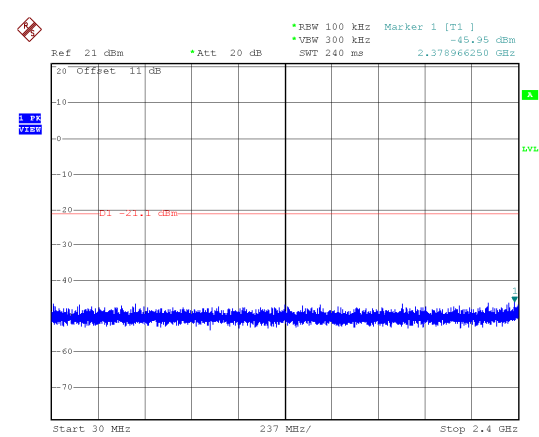


ANT A

Modulation Type: 802.11g, CH 01

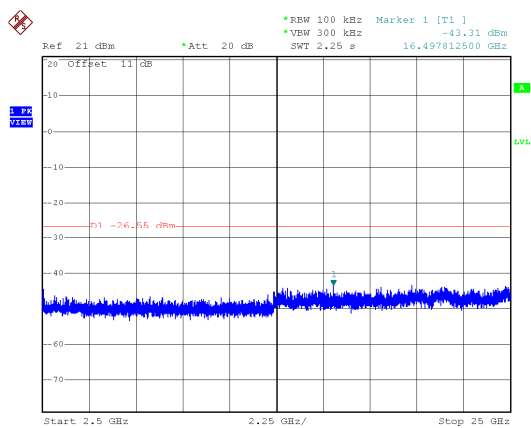
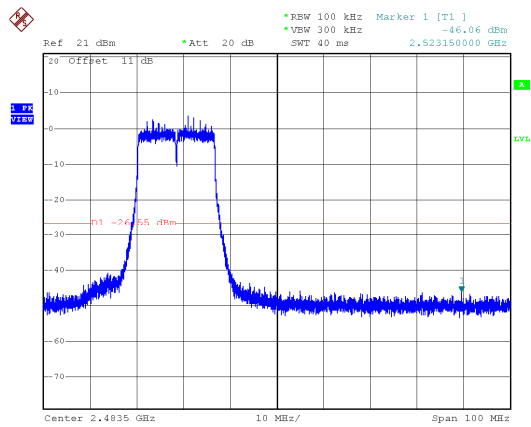
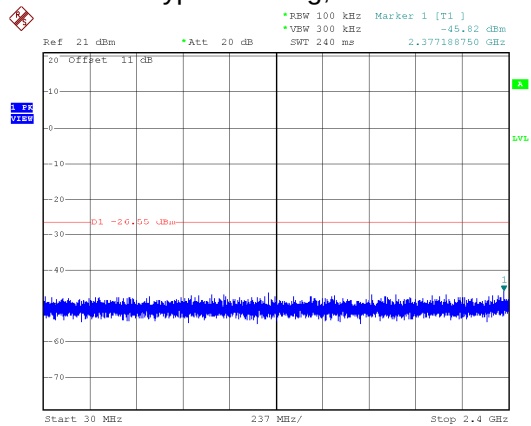


Modulation Type: 802.11g, CH 06





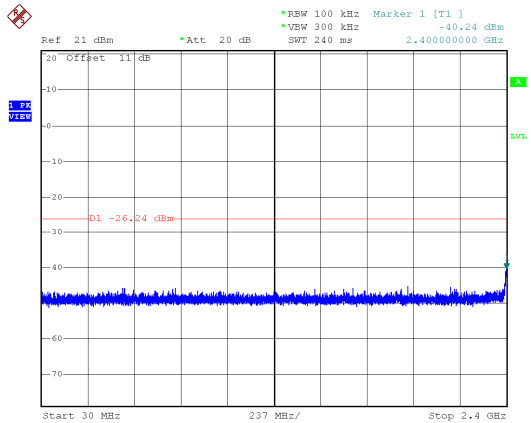
Modulation Type: 802.11g, CH 11



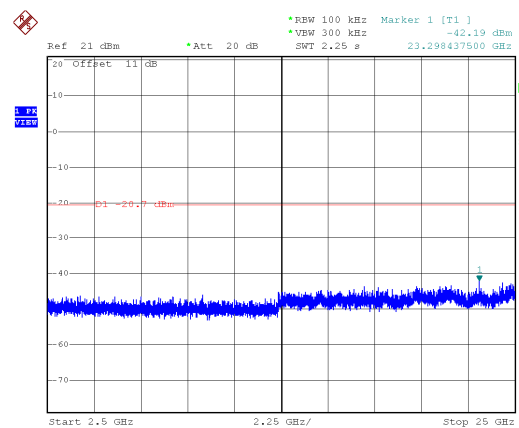
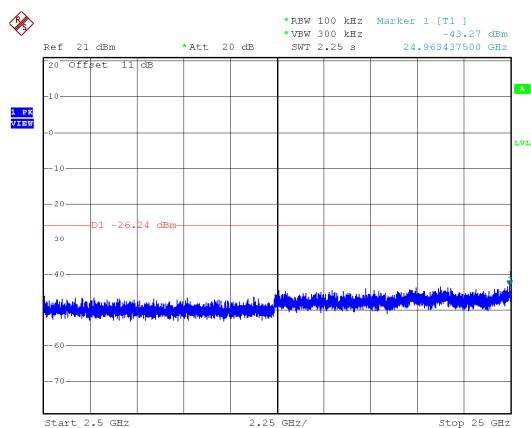
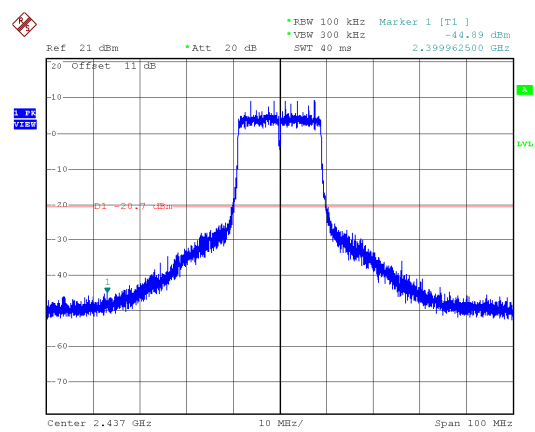
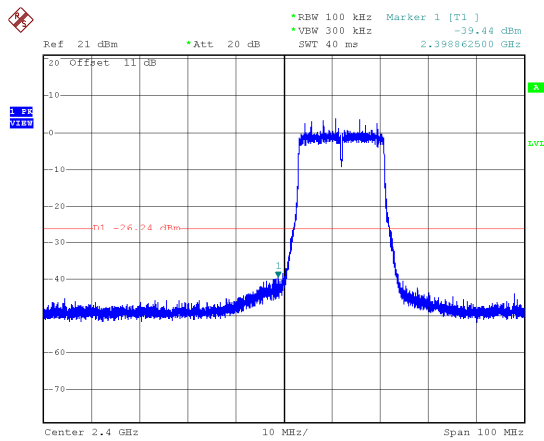
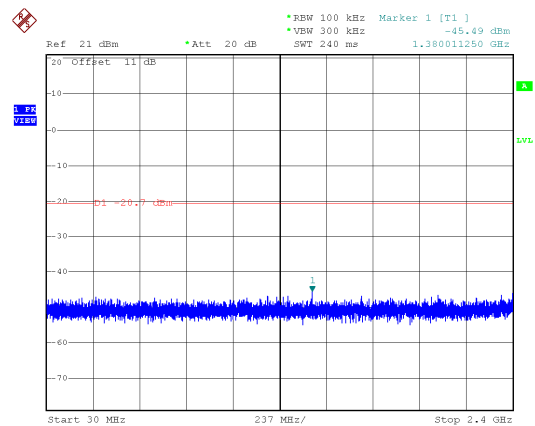


ANT A

Modulation Type: VHT20, CH01

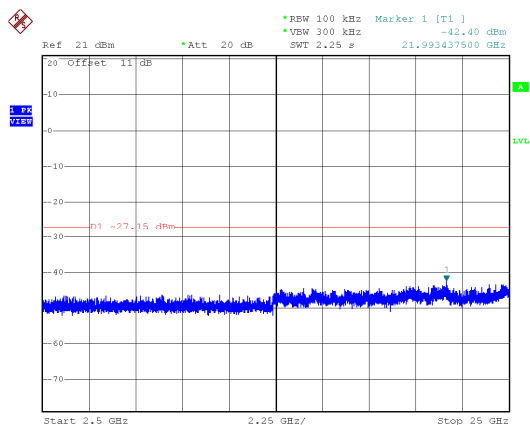
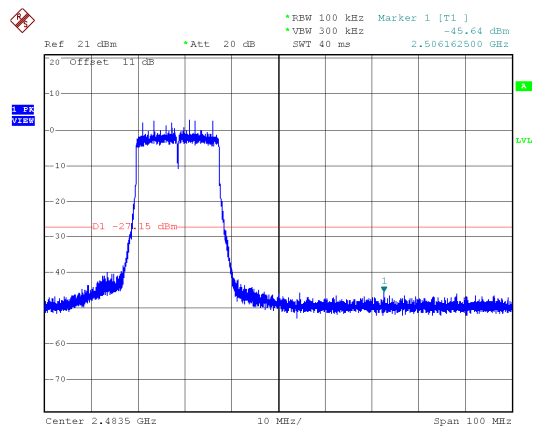
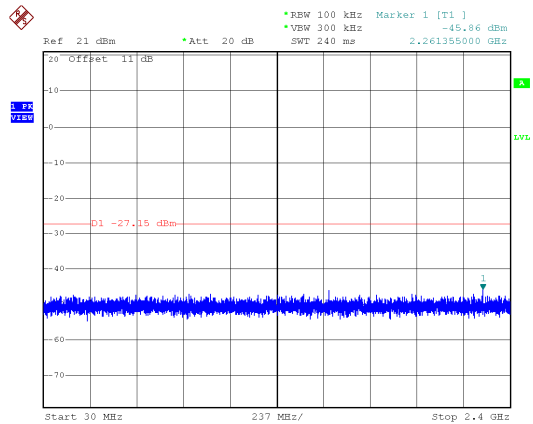


Modulation Type: VHT20, CH06





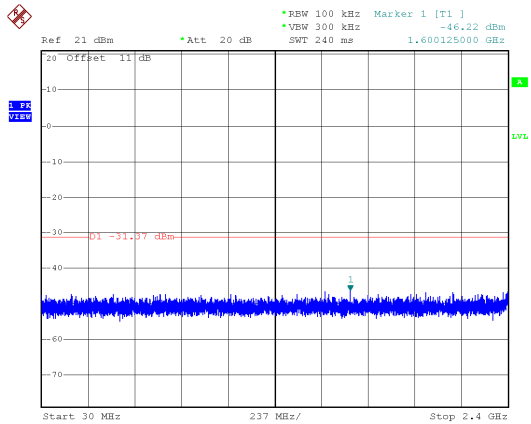
Modulation Type: VHT20, CH11



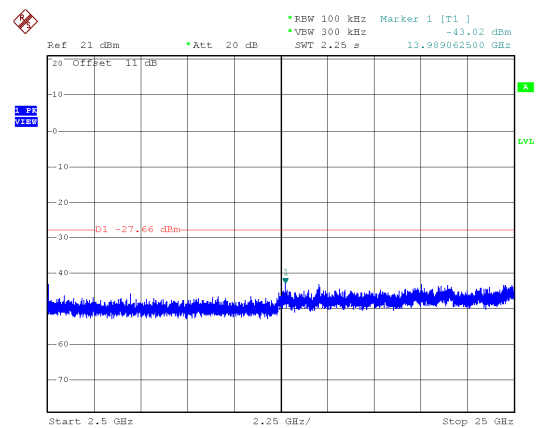
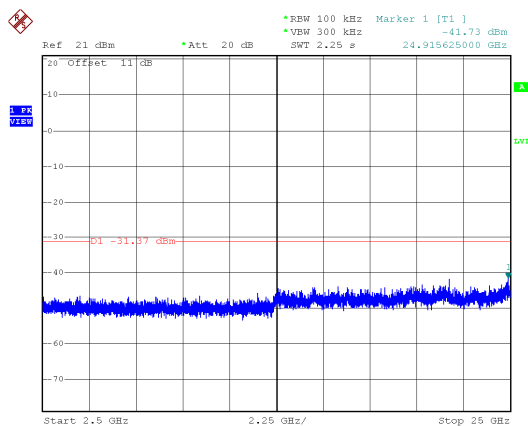
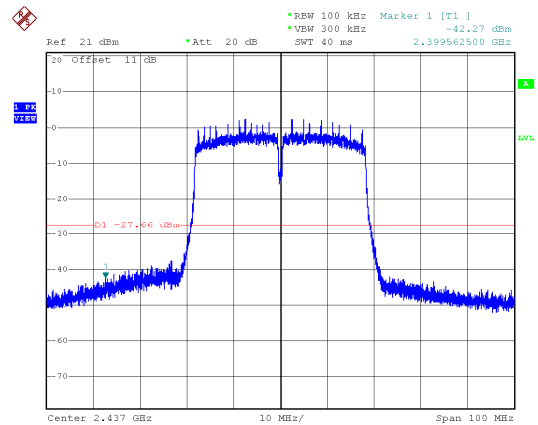
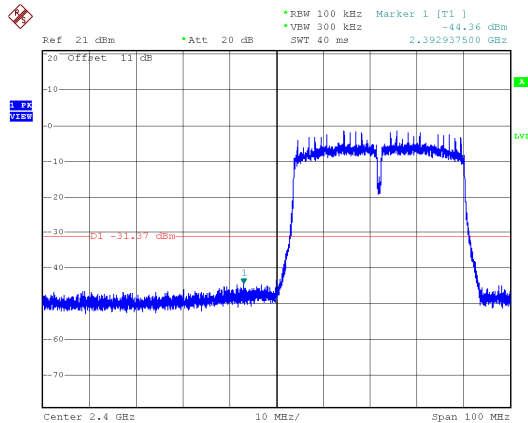
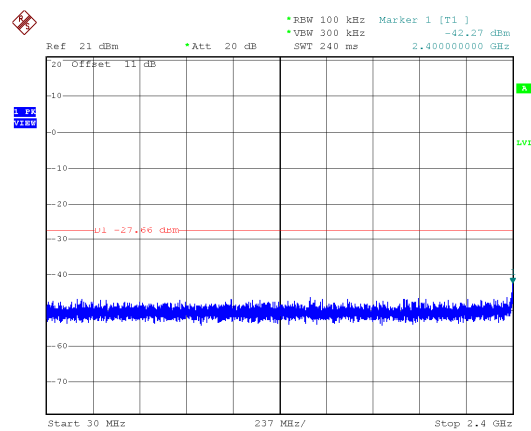


ANT A

Modulation Type: VHT40, CH03

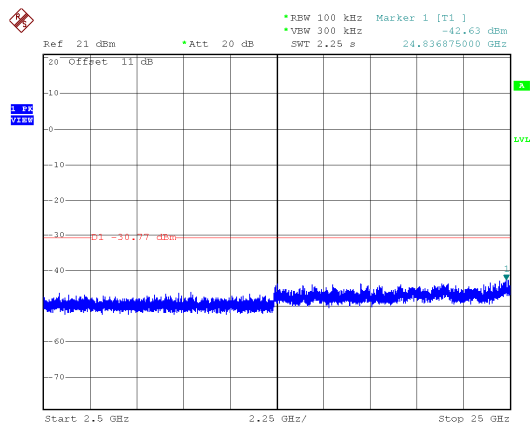
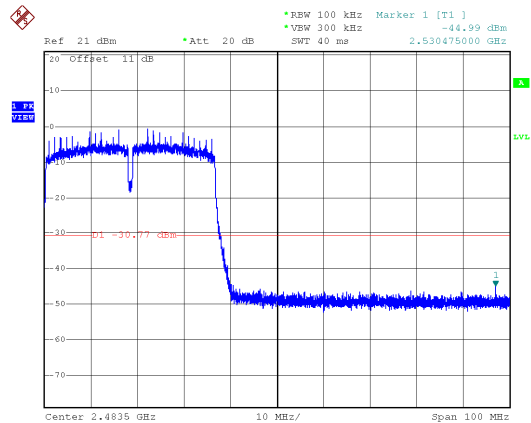
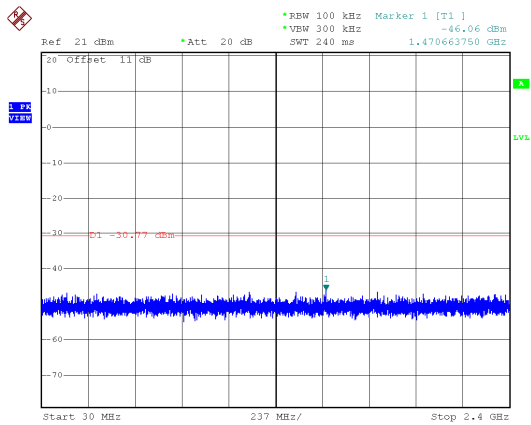


Modulation Type: VHT40, CH06





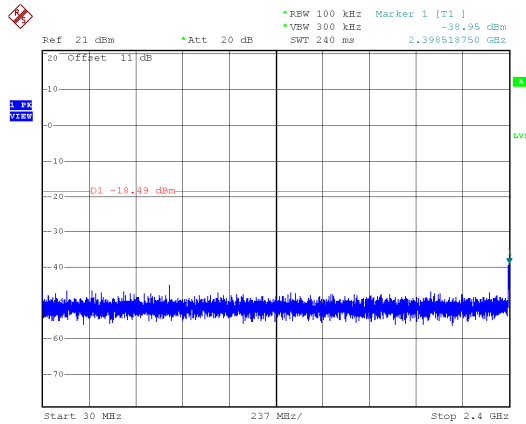
Modulation Type: VHT40, CH09



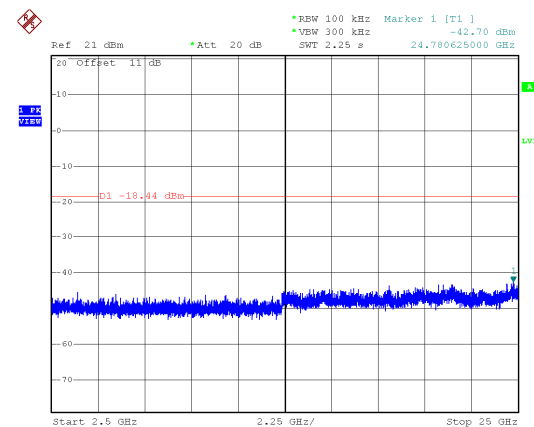
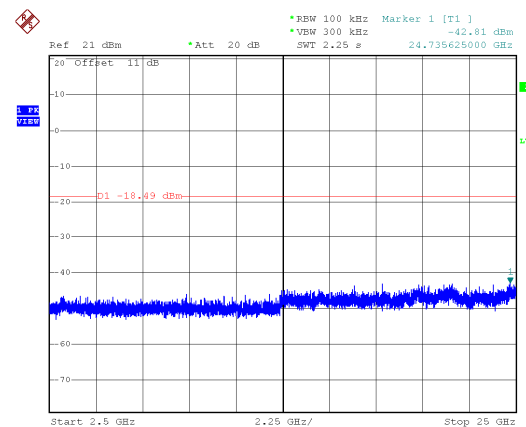
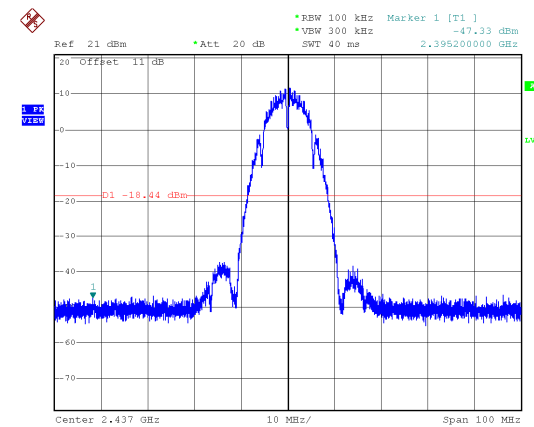
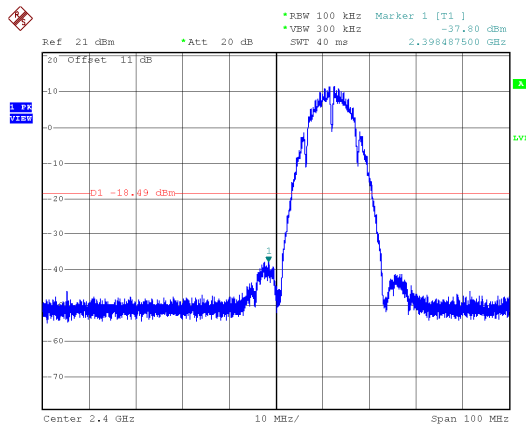
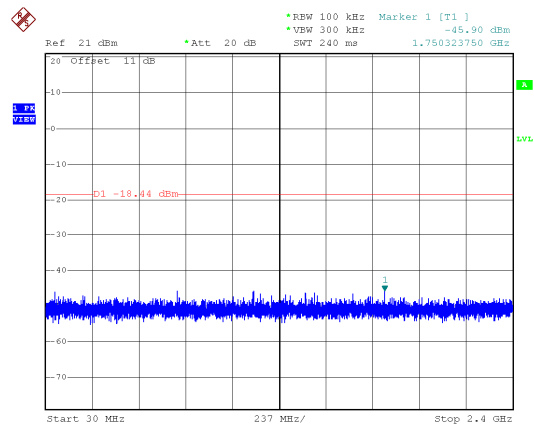


ANT B

Modulation Type: 802.11b, CH 01

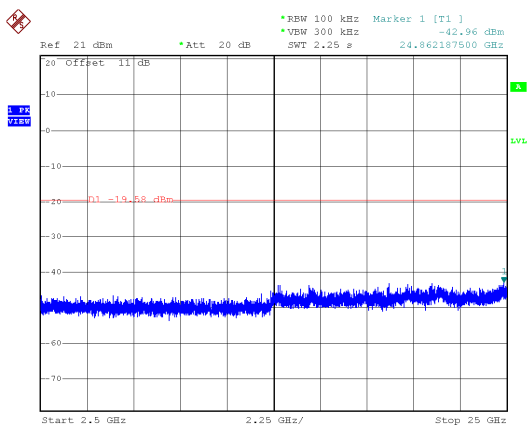
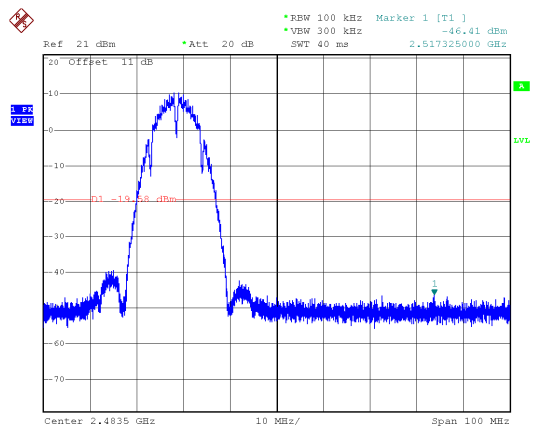
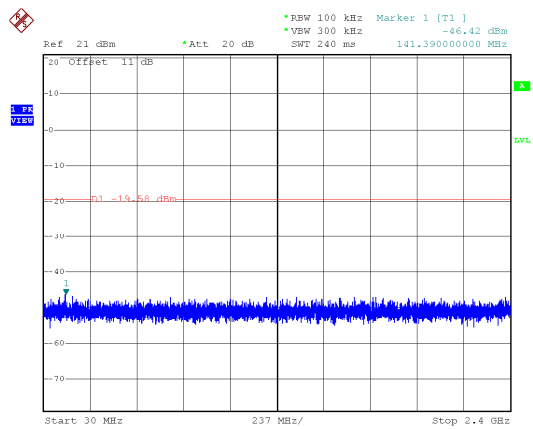


Modulation Type: 802.11b, CH 06





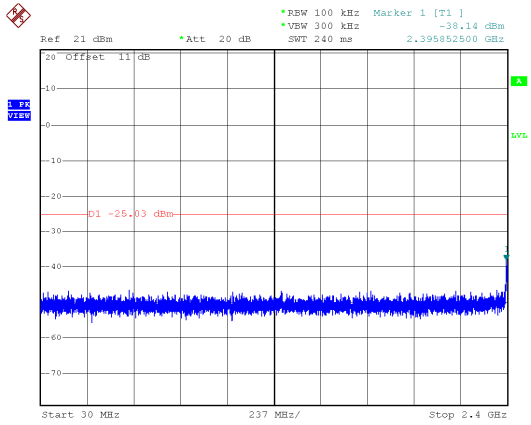
Modulation Type: 802.11b, CH 11



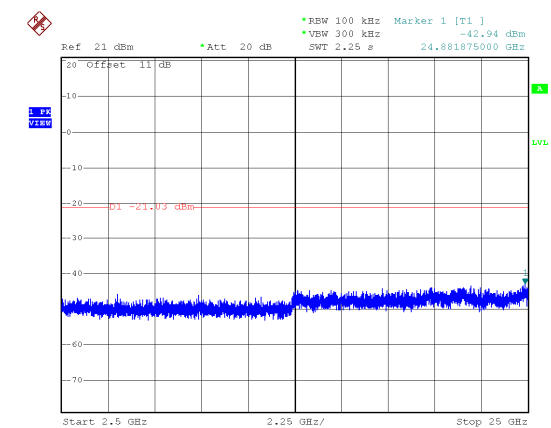
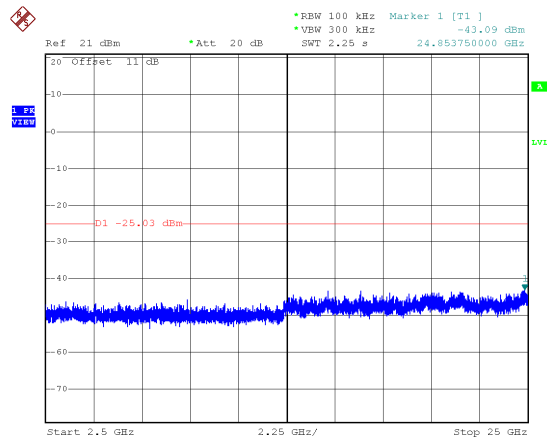
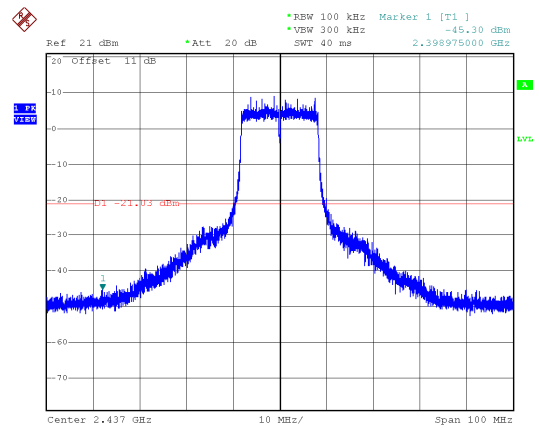
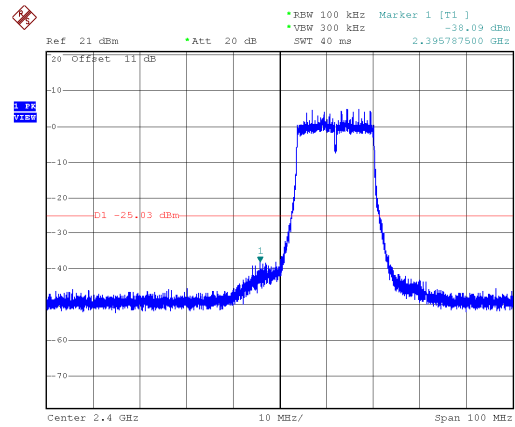
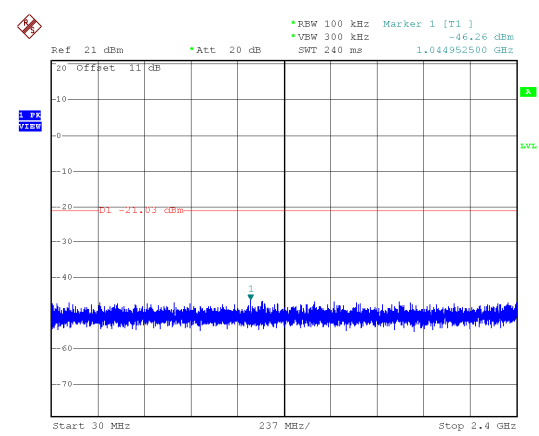


ANT B

Modulation Type: 802.11g, CH 01

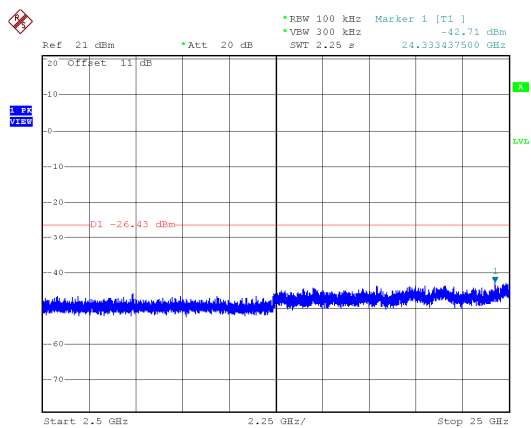
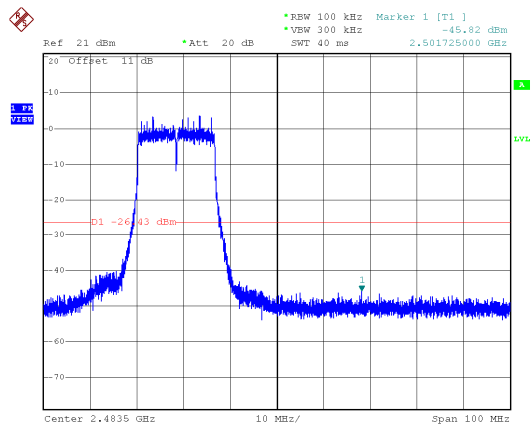
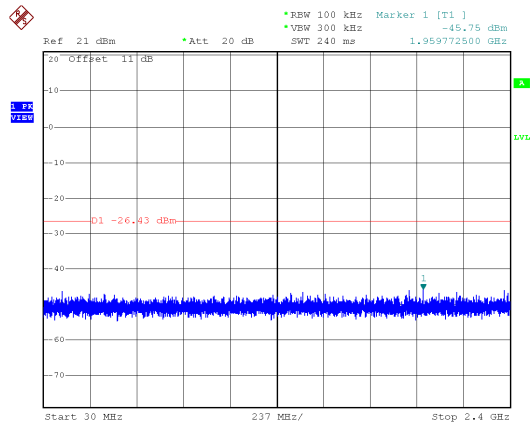


Modulation Type: 802.11g, CH 06





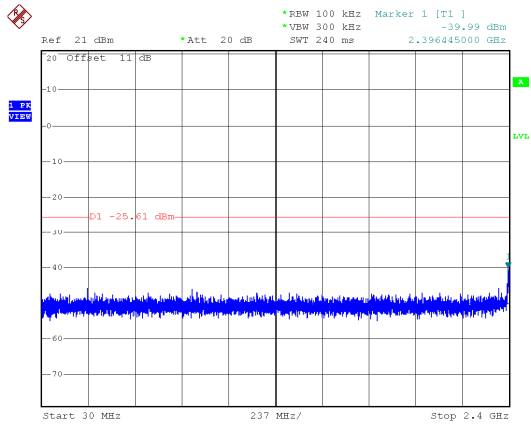
Modulation Type: 802.11g, CH 11



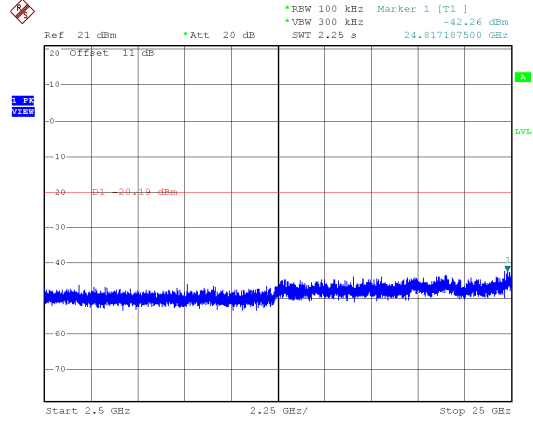
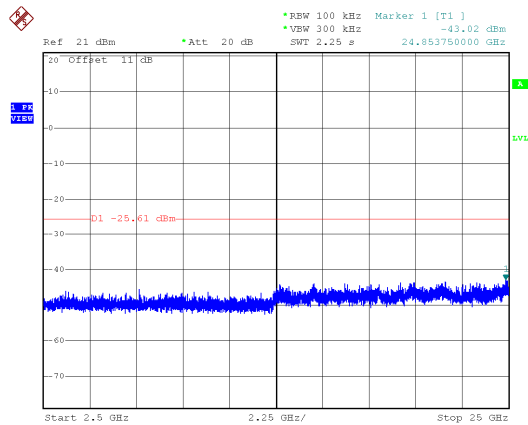
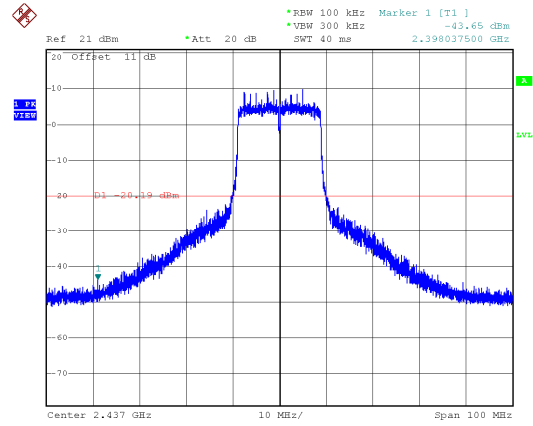
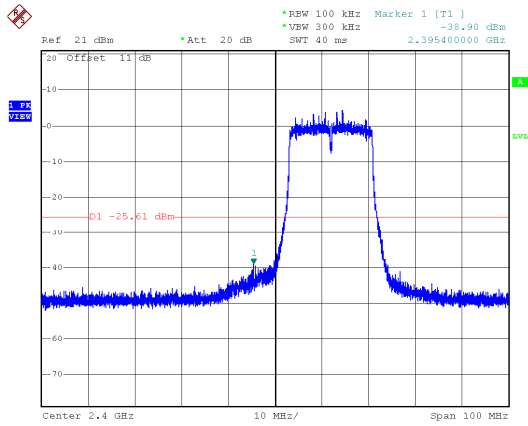
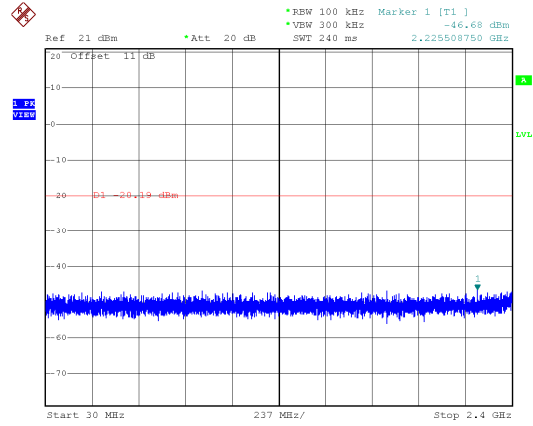


ANT B

Modulation Type: VHT20, CH01

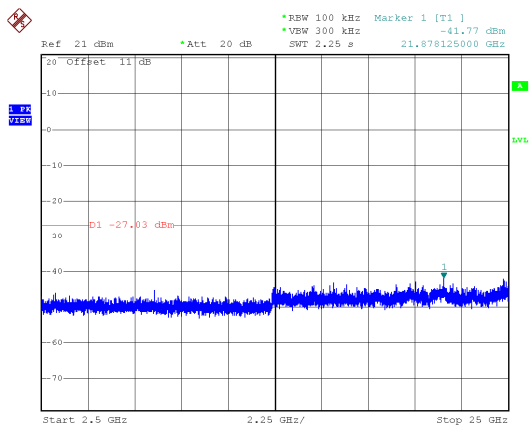
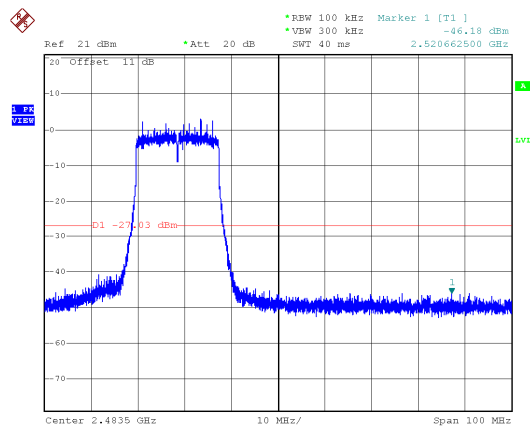
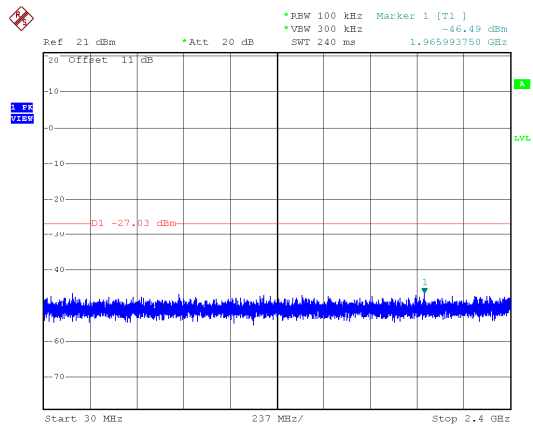


Modulation Type: VHT20, CH06





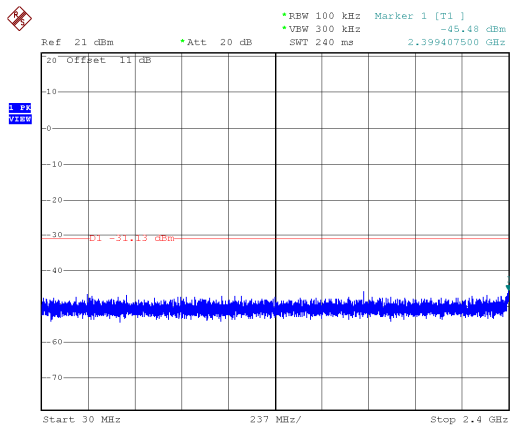
Modulation Type: VHT20, CH11



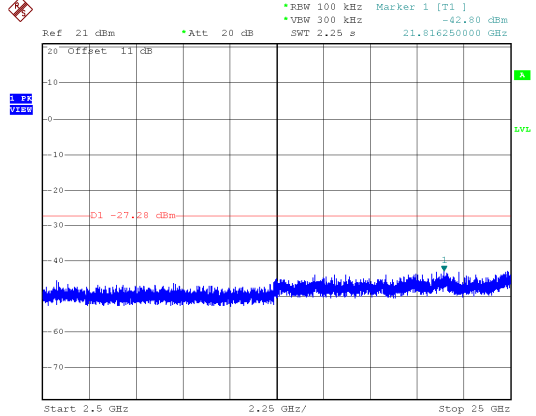
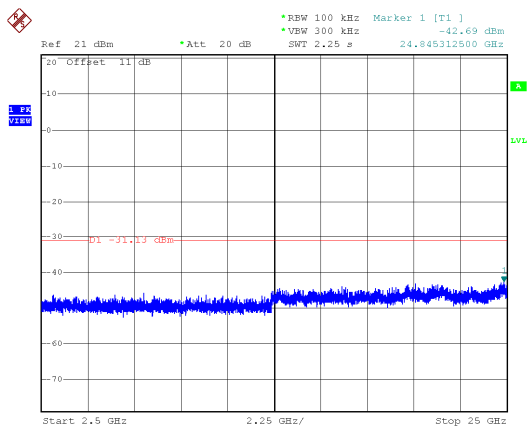
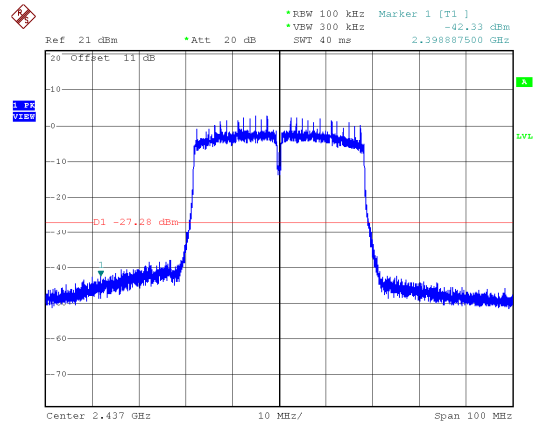
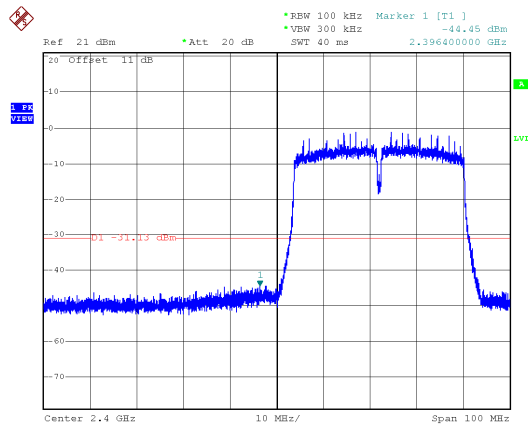
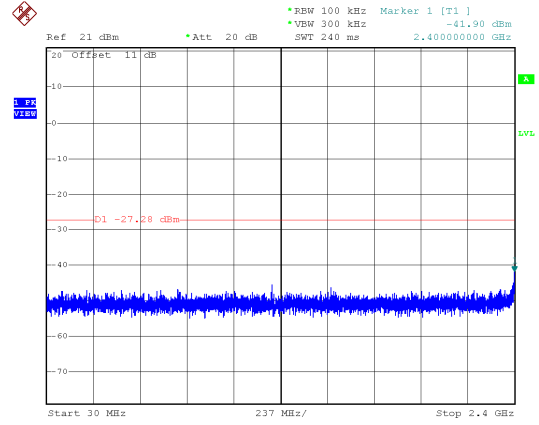


ANT B

Modulation Type: VHT40, CH03

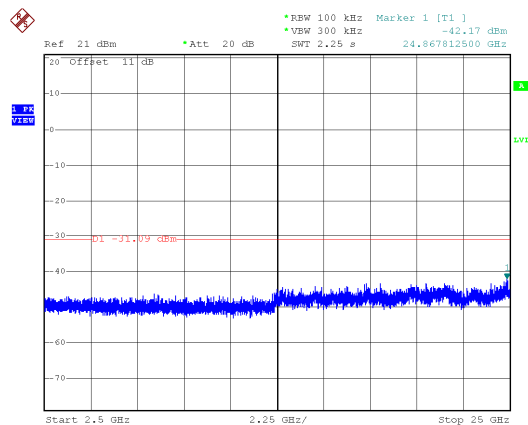
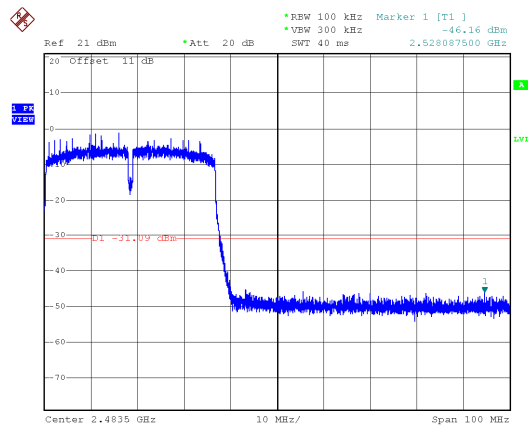
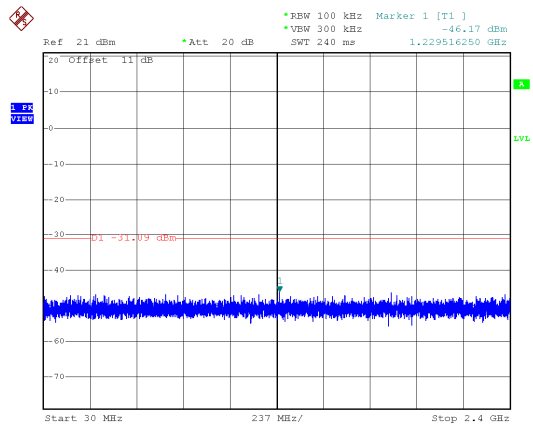


Modulation Type: VHT40, CH06





Modulation Type: VHT40, CH09





8. On Time, Duty Cycle and Measurement methods

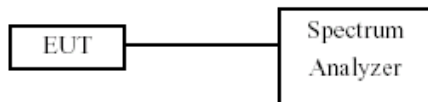
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

Temperature : 21°C

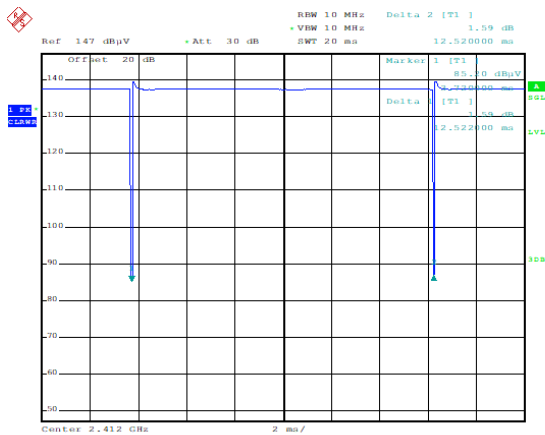
Humidity : 64%

Test Date : Feb. 08, 2018

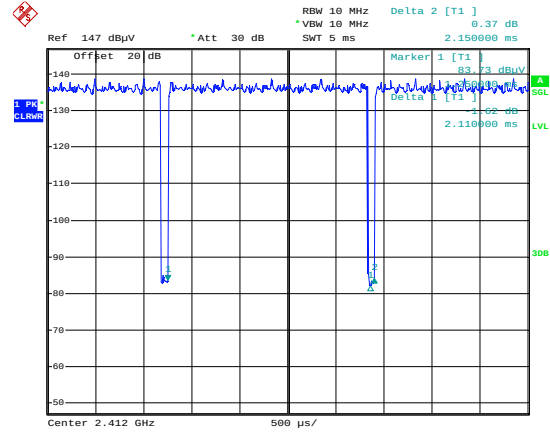
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)	1/T Minimum VBW(Hz)	Duty Cycle correction Factor (dB)
802.11b	12.52	12.52	99.98%	79.87	0.00
802.11g	2.11	2.15	98.14%	473.93	0.08
VHT20	5.08	5.12	99.22%	196.85	0.03
VHT40	2.47	2.52	98.02%	404.86	0.09



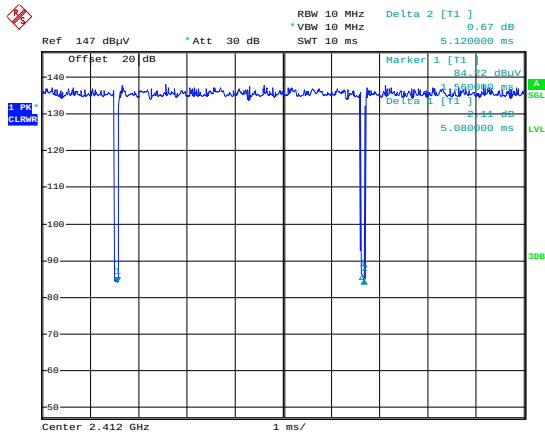
Modulation Standard: 802.11b (1Mbps)



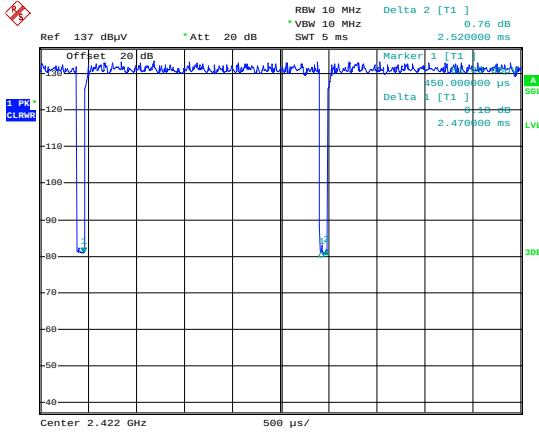
Modulation Standard: 802.11g (6Mbps)



Modulation Standard: VHT20 (6.5Mbps)



Modulation Standard: VHT40 (13.5Mbps)





9. 6dB & 99% Bandwidth Measurement Data

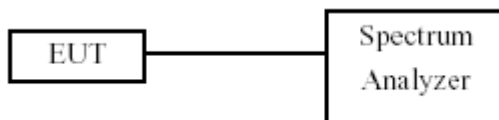
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 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.

9.3 Test Setup Layout



9.4 Test Result and Data (6dB Bandwidth)

Temperature : 21°C

Humidity : 64%

Test Date : Feb. 08, 2018

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
IEEE 802.11b (1Mbps)	01	2412	8.10	8.10	0.5
	06	2437	8.10	8.10	0.5
	11	2462	8.10	8.10	0.5
IEEE 802.11g (6Mbps)	01	2412	16.40	16.40	0.5
	06	2437	16.30	16.50	0.5
	11	2462	16.30	16.30	0.5
VHT20 (6.5Mbps)	01	2412	17.70	17.60	0.5
	06	2437	17.70	17.70	0.5
	11	2462	17.60	17.60	0.5
VHT40 (13.5Mbps)	03	2422	35.20	35.20	0.5
	06	2437	35.20	35.20	0.5
	09	2452	35.00	35.00	0.5



9.5 Test Result and Data (99% Bandwidth)

Temperature : 21°C

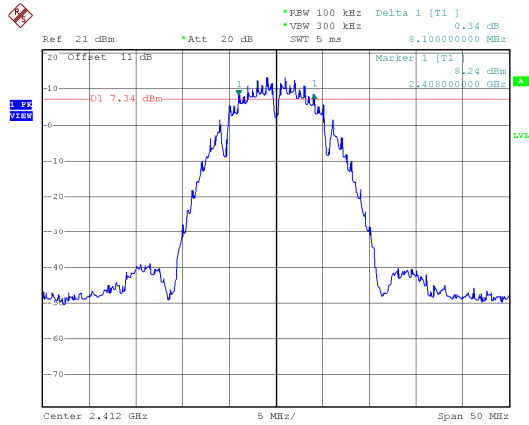
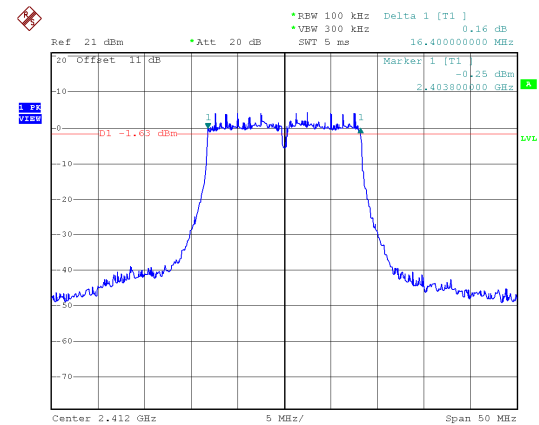
Humidity : 64%

Test Date : Feb. 08, 2018

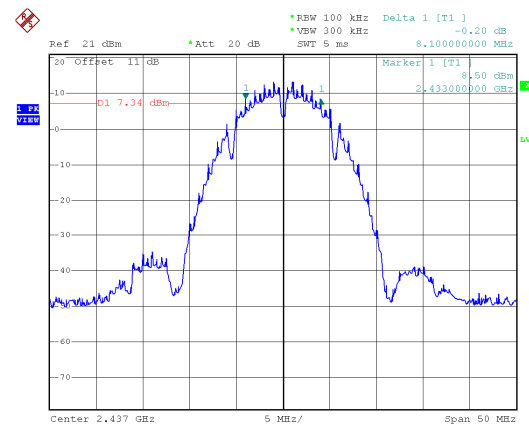
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
IEEE 802.11b (1Mbps)	01	2412	12.90	12.90
	06	2437	12.80	12.80
	11	2462	12.70	12.80
IEEE 802.11g (6Mbps)	01	2412	16.60	16.60
	06	2437	16.60	16.60
	11	2462	16.50	16.50
VHT20 (6.5Mbps)	01	2412	17.70	17.60
	06	2437	17.60	17.60
	11	2462	17.70	17.60
VHT40 (13.5Mbps)	03	2422	36.20	36.20
	06	2437	36.20	36.00
	09	2452	36.20	36.20



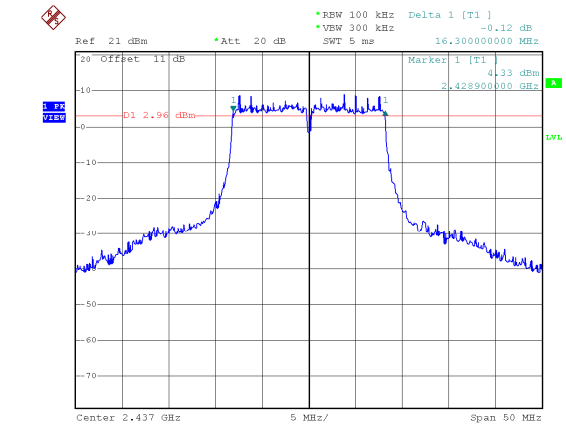
6dB Bandwidth
ANT A
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01

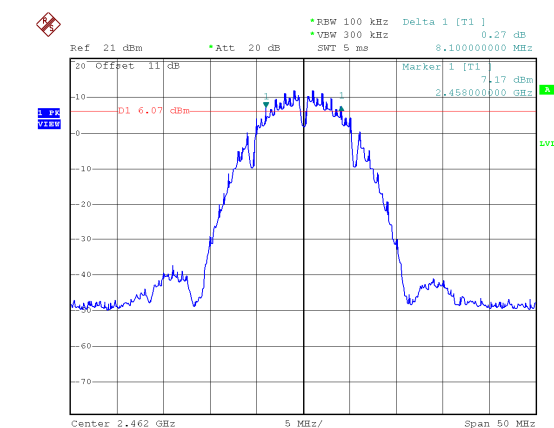
CH06



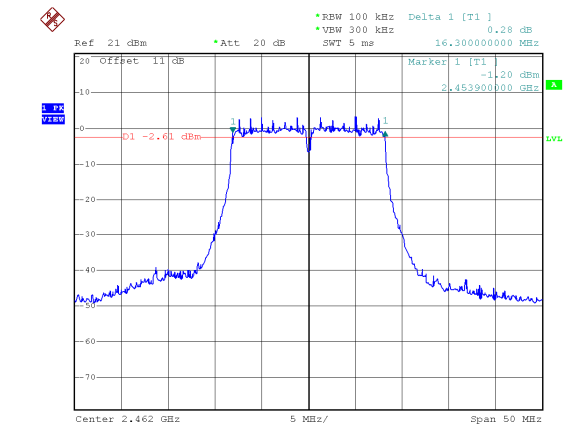
CH06

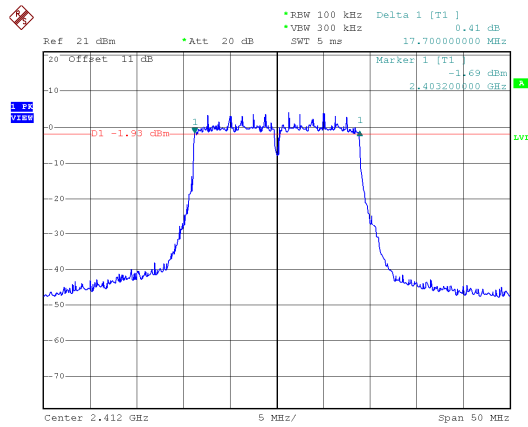
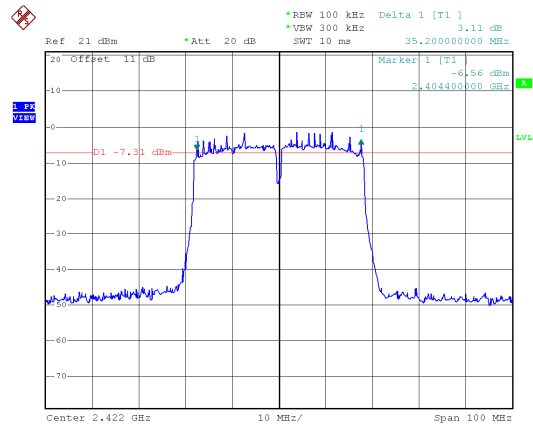


CH11

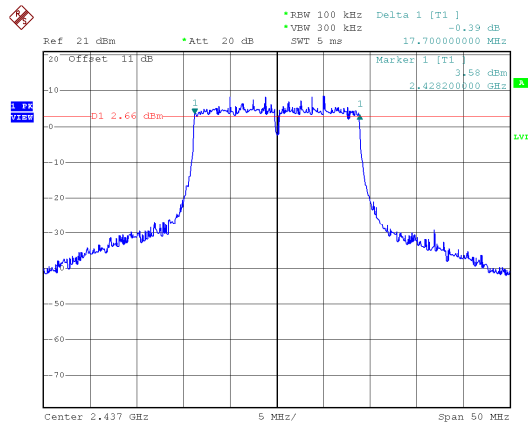


CH11

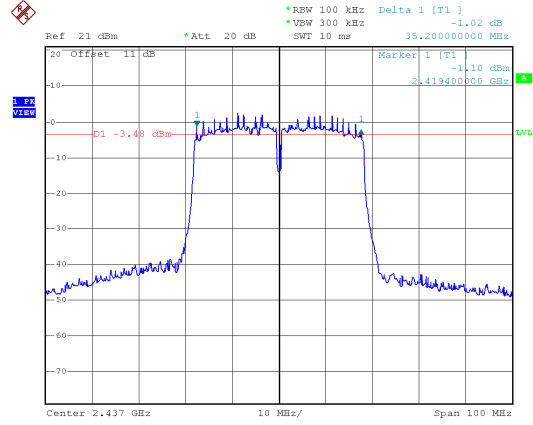


Modulation Type: VHT20
CH01Modulation Type: VHT40
CH03

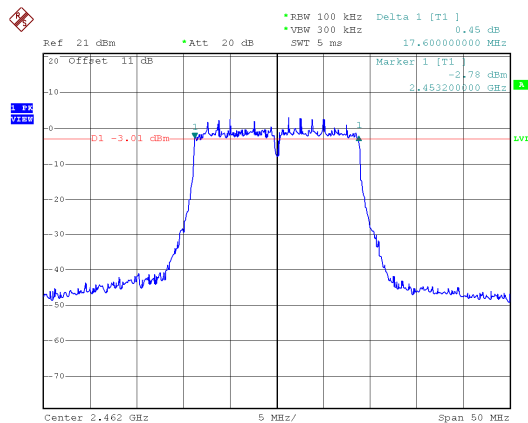
CH06



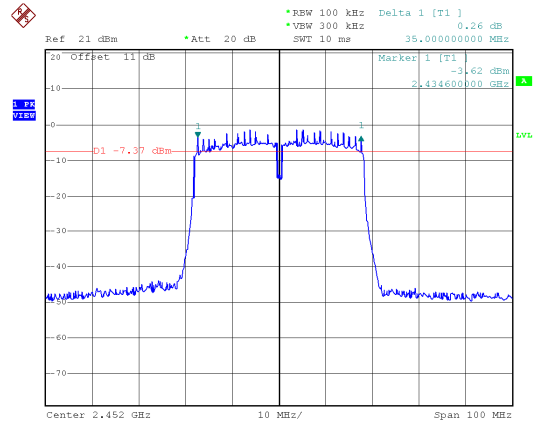
CH06

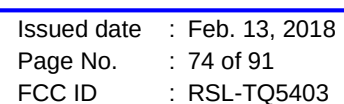
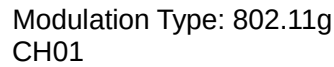


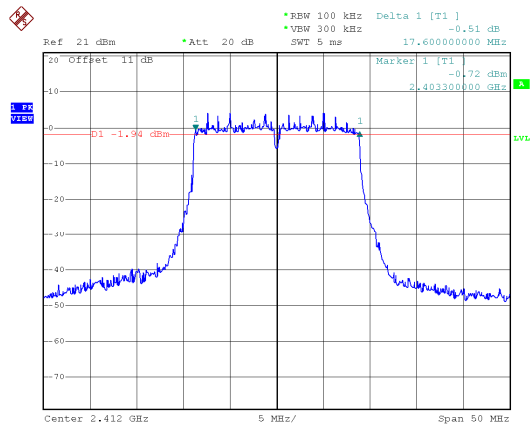
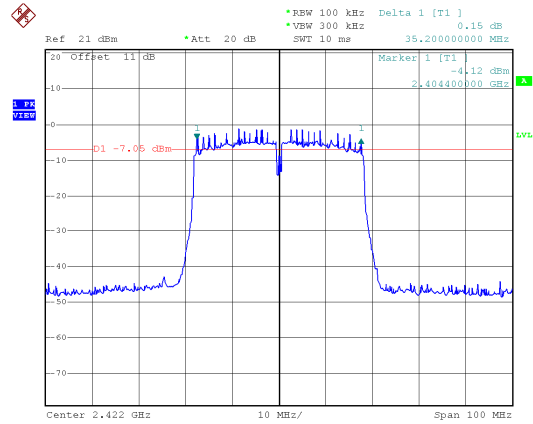
CH11



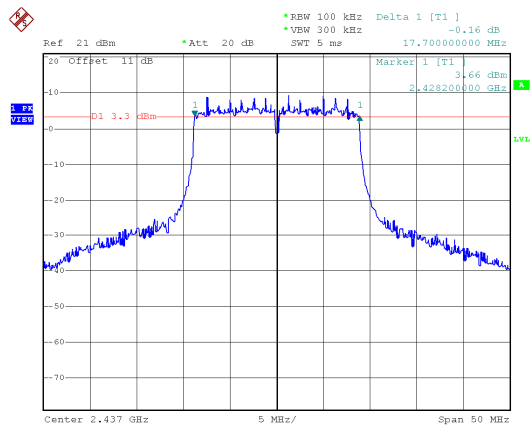
CH09



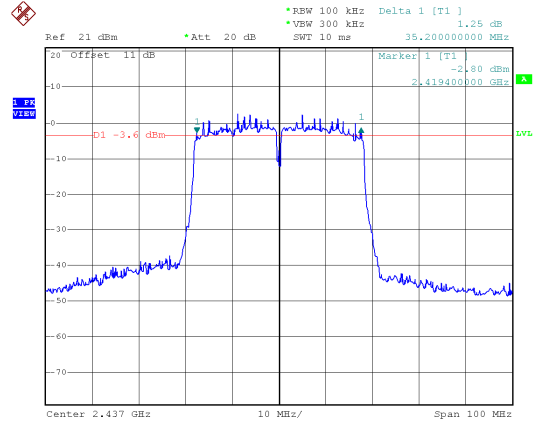


Modulation Type: VHT20
CH01Modulation Type: VHT40
CH03

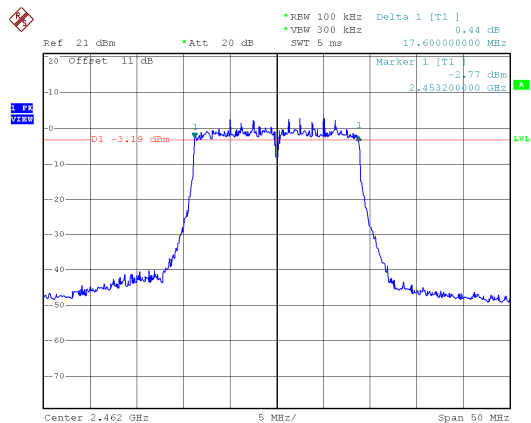
CH06



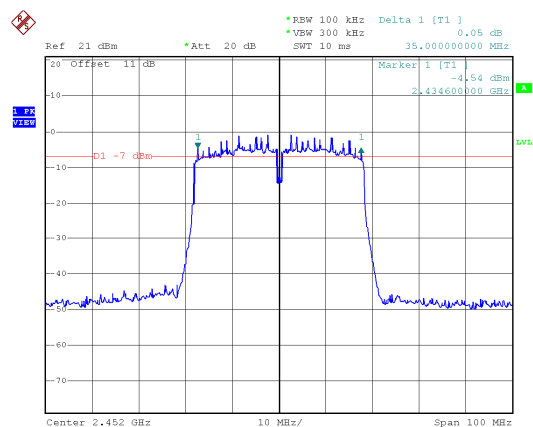
CH06



CH11

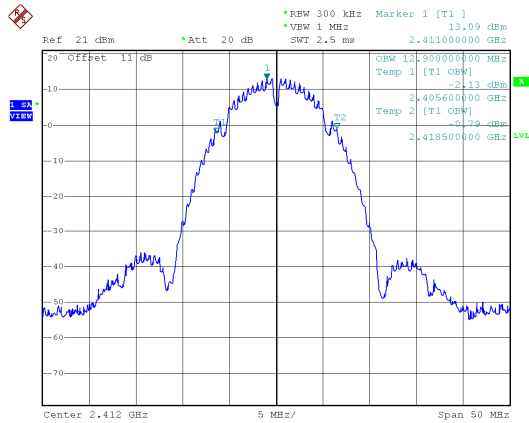


CH09

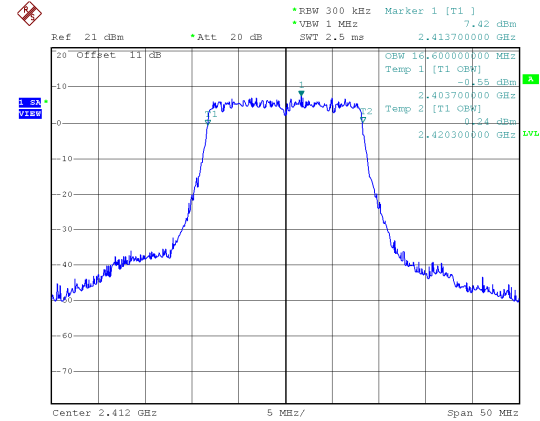




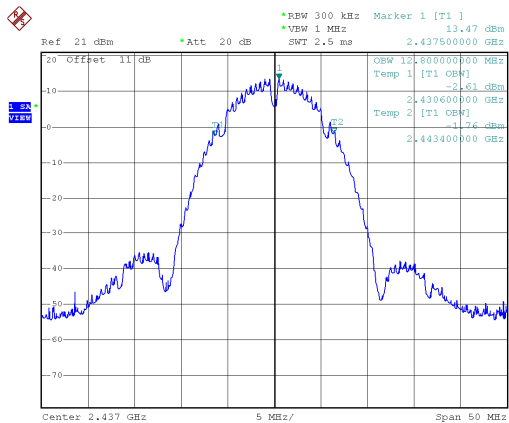
99% Bandwidth
ANT A
Modulation Type: 802.11b
CH01



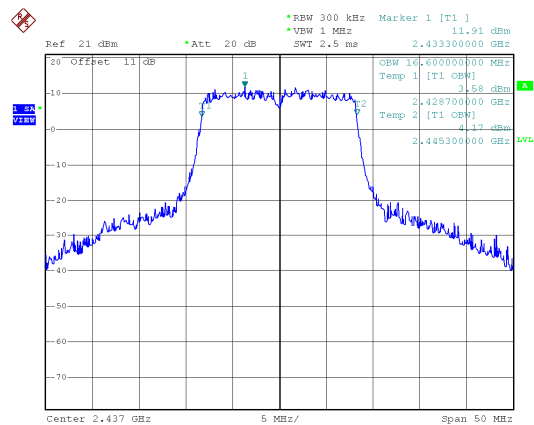
Modulation Type: 802.11g
CH01



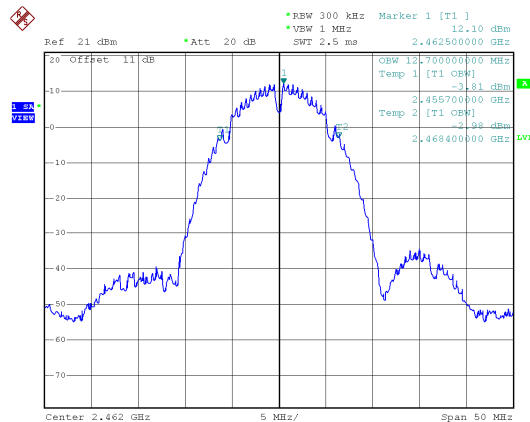
CH06



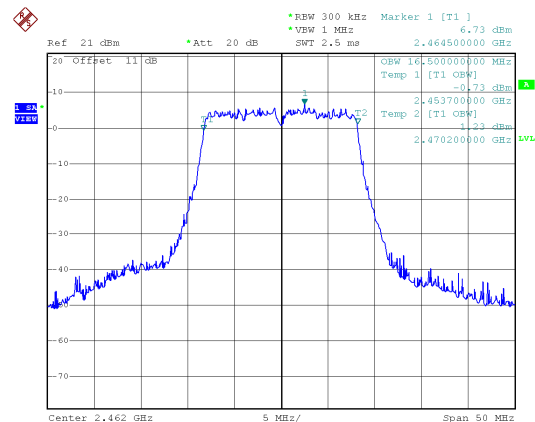
CH06



CH11

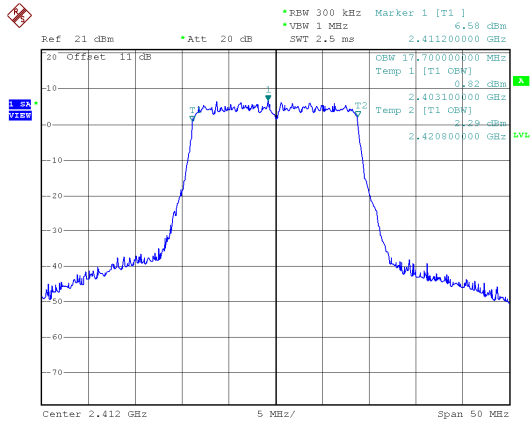


CH11

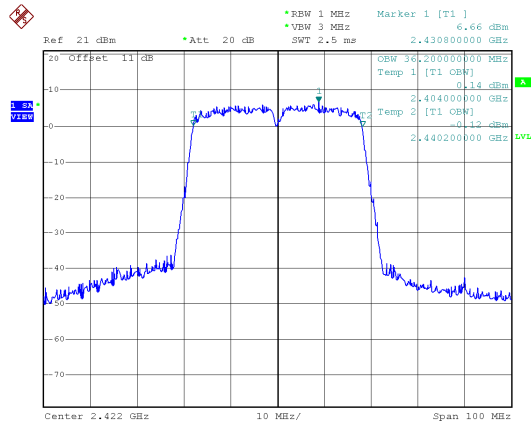




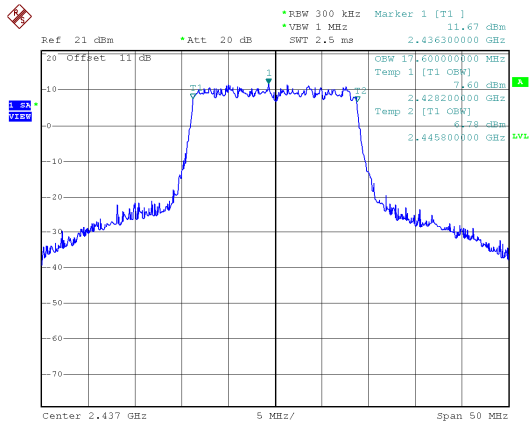
Modulation Type: VHT20
CH01



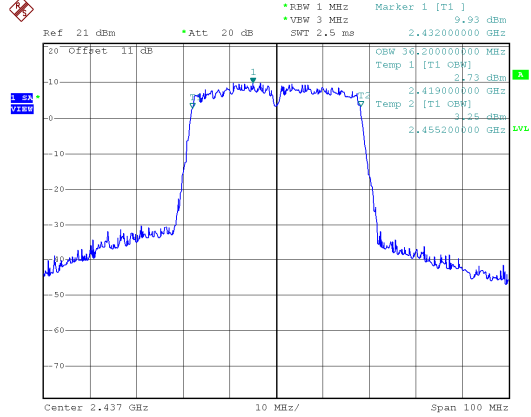
Modulation Type: VHT40
CH03



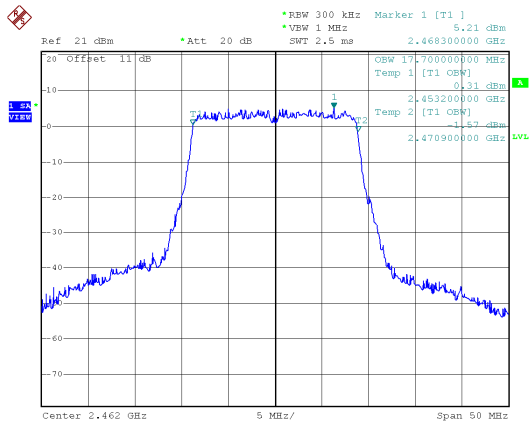
CH06



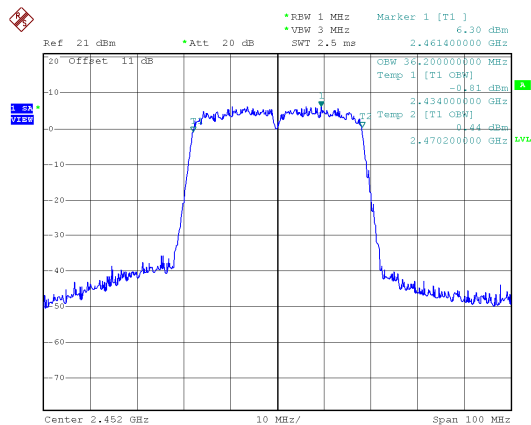
CH06



CH11

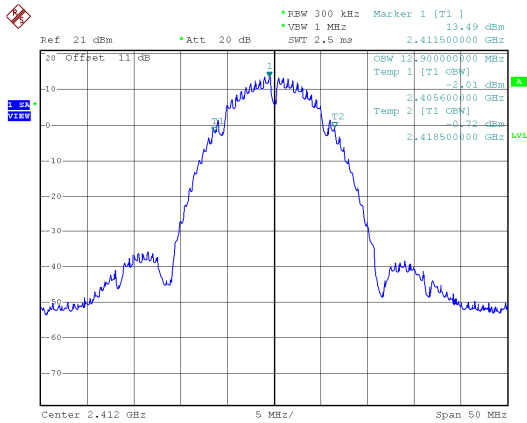
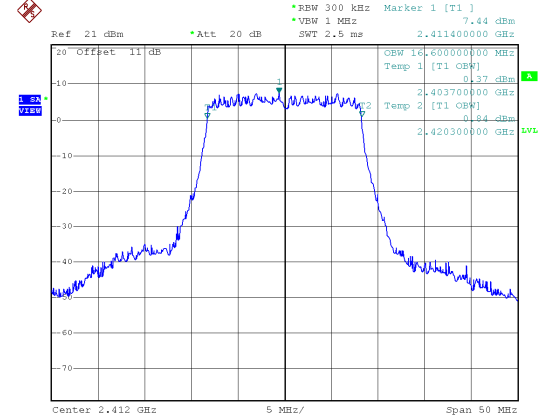


CH09

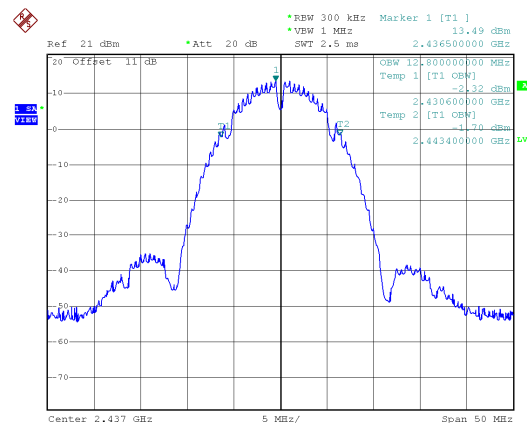




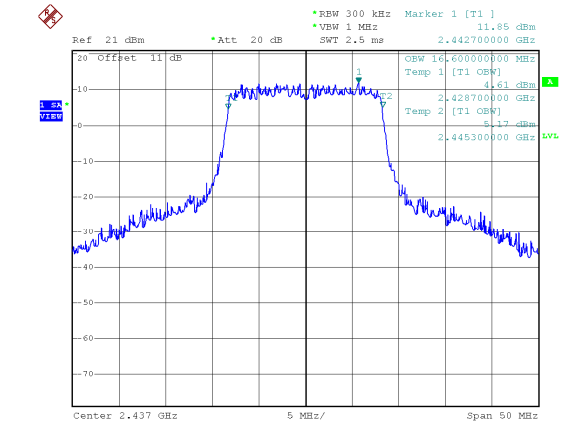
ANT B

Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01

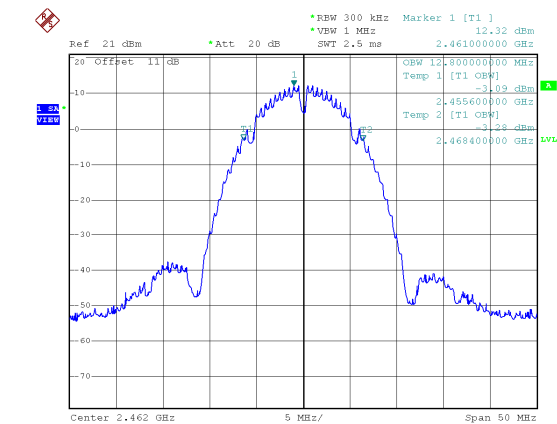
CH06



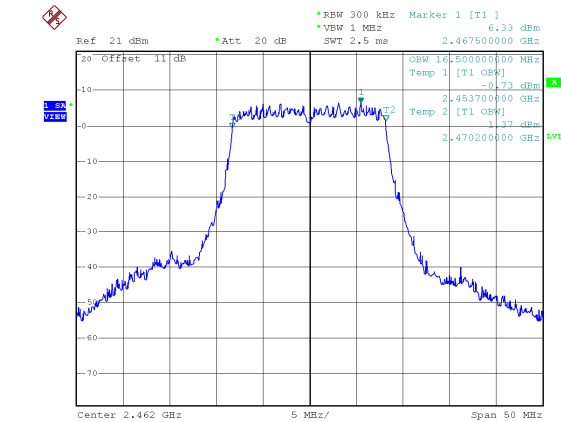
CH06

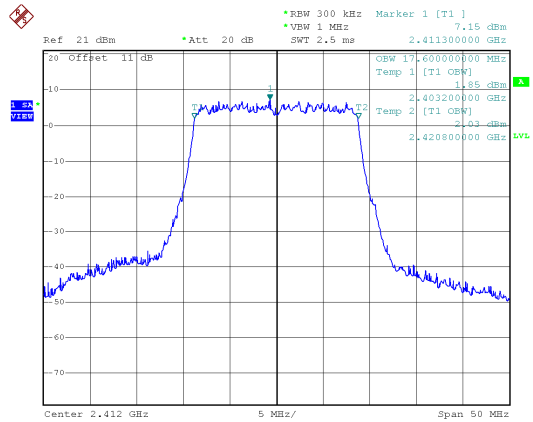
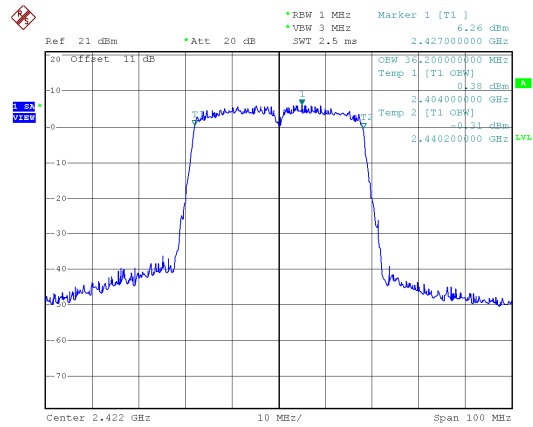


CH11

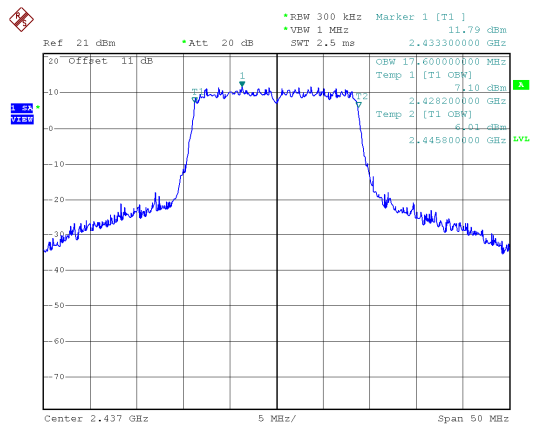


CH11

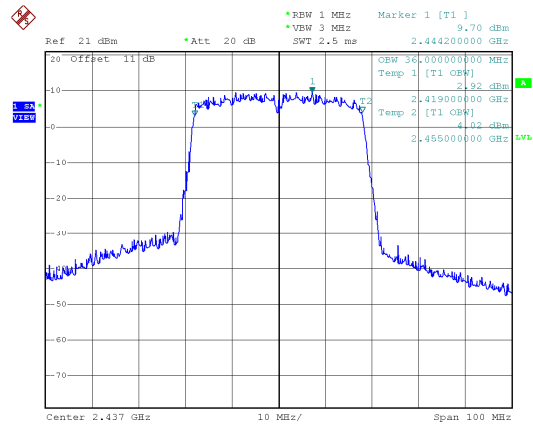


Modulation Type: VHT20
CH01Modulation Type: VHT40
CH03

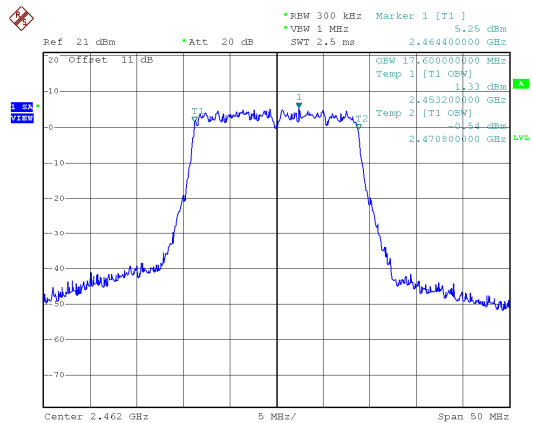
CH06



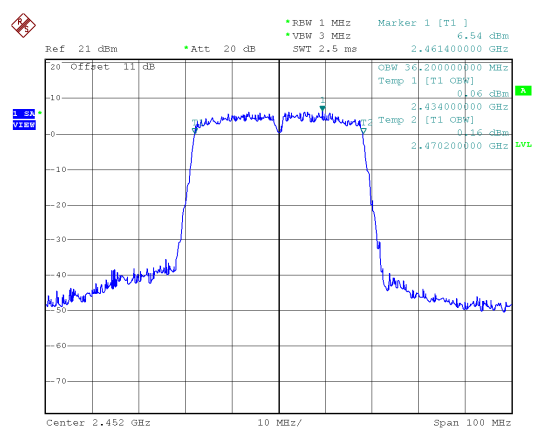
CH06



CH11



CH09





10. Maximum Average Output Power

10.1 Test Limit

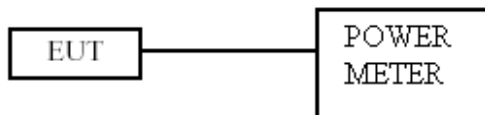
The Maximum Average Output Power Measurement is 30dBm.

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

10.2 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.

10.3 Test Setup Layout





10.4 Test Result and Data

Temperature : 21°C

Humidity : 64%

Test Date : Feb. 08, 2018

Test Mode : Non-Beamforming

Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)
			ANT A	ANT B			
IEEE 802.11b (1Mbps)	01	2412	21.19	21.41	269.88	24.31	30.00
	06	2437	21.31	21.40	273.25	24.37	30.00
	11	2462	20.01	20.08	202.09	23.06	30.00
IEEE 802.11g (6Mbps)	01	2412	15.88	16.2	80.41	19.05	30.00
	06	2437	20.19	20.49	216.42	23.35	30.00
	11	2462	14.72	14.75	59.50	17.75	30.00
IEEE 802.11an HT20 (6.5Mbps)	01	2412	15.22	15.63	69.83	18.44	30.00
	06	2437	20.58	20.82	235.07	23.71	30.00
	11	2462	14.11	14.19	52.01	17.16	30.00
IEEE 802.11an HT40 (13.5Mbps)	03	2422	12.62	12.78	37.25	15.71	30.00
	06	2437	16.18	16.31	84.25	19.26	30.00
	09	2452	12.81	12.88	38.51	15.86	30.00
VHT20 (6.5Mbps)	01	2412	15.28	15.7	70.88	18.51	30.00
	06	2437	20.61	20.93	238.96	23.78	30.00
	11	2462	14.16	14.23	52.55	17.21	30.00
VHT40 (13.5Mbps)	03	2422	12.7	12.84	37.85	15.78	30.00
	06	2437	16.25	16.38	85.62	19.33	30.00
	09	2452	12.89	12.95	39.18	15.93	30.00



Temperature : 21°C

Humidity : 64%

Test Date : Feb. 08, 2018

Test Mode : Beamforming

Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)
			ANT A	ANT B			
IEEE 802.11g (6Mbps)	01	2412	12.87	13.19	40.21	16.04	28.36
	06	2437	17.18	17.48	108.22	20.34	28.36
	11	2462	11.71	11.74	29.75	14.74	28.36
IEEE 802.11an HT20 (6.5Mbps)	01	2412	12.21	12.62	34.92	15.43	28.36
	06	2437	17.57	17.81	117.54	20.70	28.36
	11	2462	11.1	11.18	26.00	14.15	28.36
IEEE 802.11an HT40 (13.5Mbps)	03	2422	9.61	9.77	18.63	12.70	28.36
	06	2437	13.17	13.3	42.13	16.25	28.36
	09	2452	9.8	9.87	19.26	12.85	28.36
VHT20 (6.5Mbps)	01	2412	12.27	12.69	35.44	15.50	28.36
	06	2437	17.6	17.92	119.49	20.77	28.36
	11	2462	11.15	11.22	26.28	14.20	28.36
VHT40 (13.5Mbps)	03	2422	9.69	9.83	18.93	12.77	28.36
	06	2437	13.24	13.37	42.81	16.32	28.36
	09	2452	9.88	9.94	19.59	12.92	28.36



11. Power Spectral Density

11.1 Test Limit

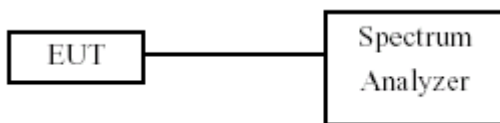
The Maximum of Power Spectral Density Measurement is 8dBm.

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

11.2 Test Procedures

Reference to KDB558074 DTS Meas Guidance v04 D01

11.3 Test Setup Layout



11.4 Test Result and Data

Temperature : 21°C

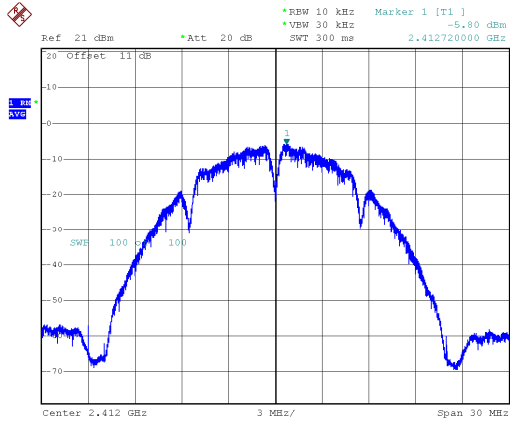
Humidity : 64%

Test Date : Feb. 08, 2018

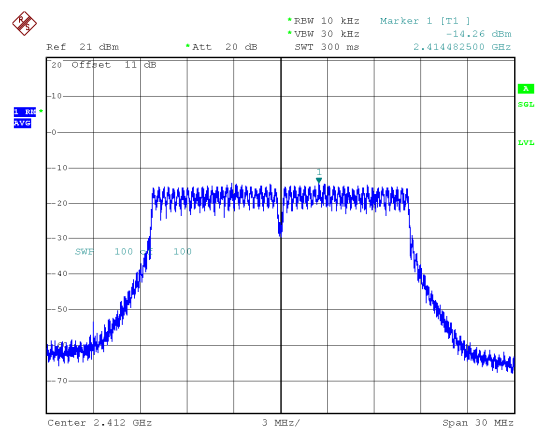
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 10 kHz Bandwidth (dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
IEEE 802.11b (1Mbps)	01	2412	-5.8	-5.54	-2.66	0.00	-2.66	6.36
	06	2437	-5.56	-5.6	-2.57	0.00	-2.57	6.36
	11	2462	-6.82	-6.72	-3.76	0.00	-3.76	6.36
IEEE 802.11g (6Mbps)	01	2412	-14.26	-14.03	-11.13	0.00	-11.13	6.36
	06	2437	-10.25	-9.81	-7.01	0.00	-7.01	6.36
	11	2462	-15.19	-15.51	-12.34	0.00	-12.34	6.36
VHT20 (6.5Mbps)	01	2412	-14.31	-12.17	-10.10	0.00	-10.10	6.36
	06	2437	-9.29	-8.6	-5.92	0.00	-5.92	6.36
	11	2462	-15.72	-15.12	-12.40	0.00	-12.40	6.36
VHT40 (6.5Mbps)	03	2422	-20.25	-13.58	-12.73	0.00	-12.73	6.36
	06	2437	-16.65	-15.66	-13.12	0.00	-13.12	6.36
	09	2452	-19.92	-20.24	-17.07	0.00	-17.07	6.36



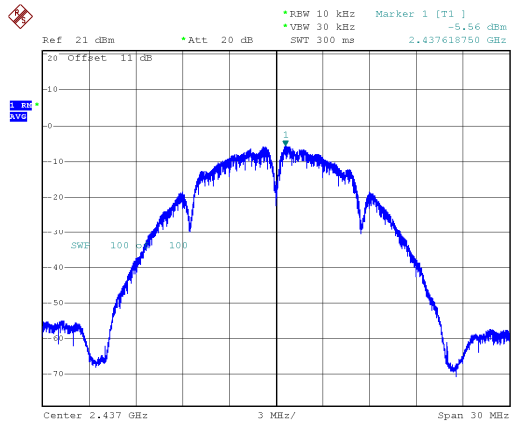
ANT A
Modulation Type: 802.11b
CH01



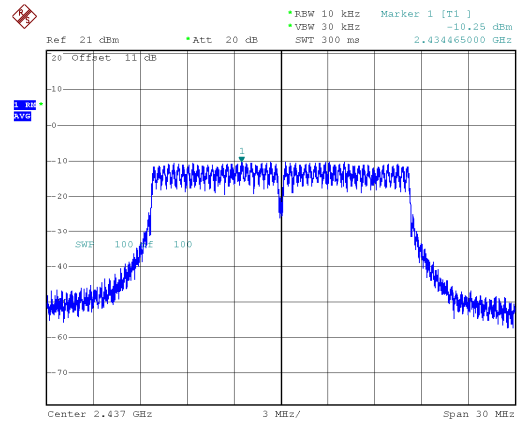
Modulation Type: 802.11g
CH01



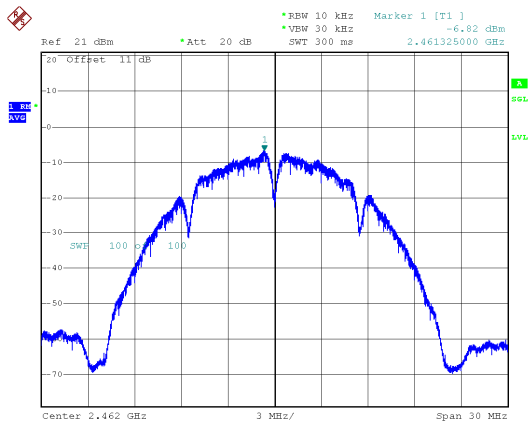
CH06



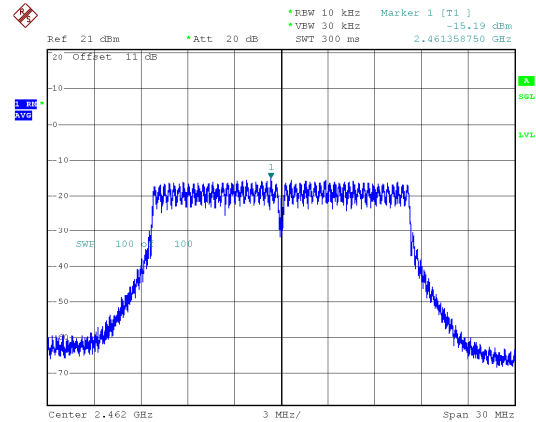
CH06



CH11

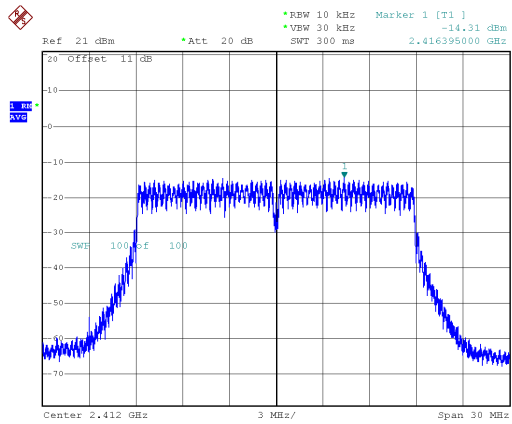


CH11

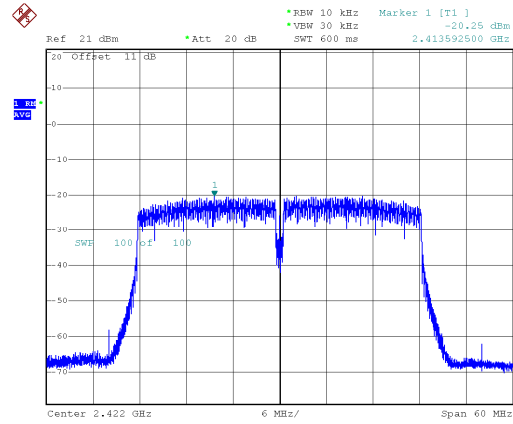




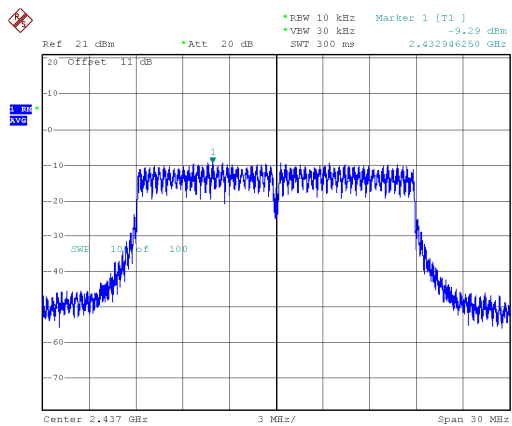
Modulation Type: VHT20
CH01



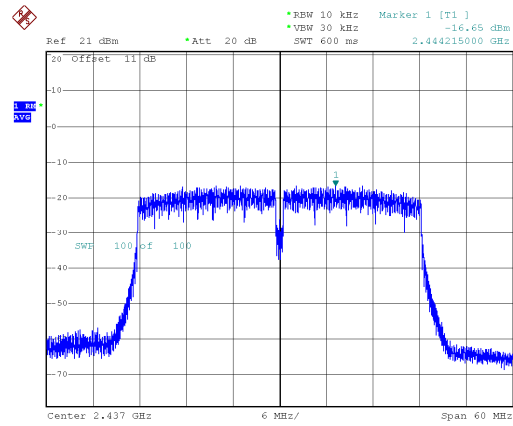
Modulation Type: VHT40
CH03



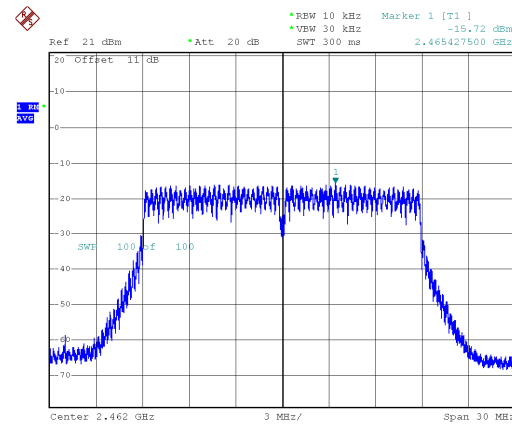
CH06



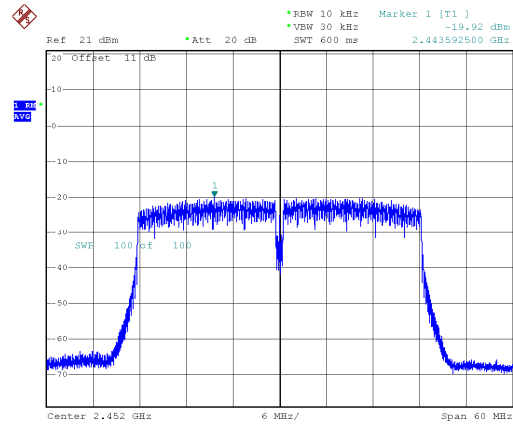
CH06



CH11

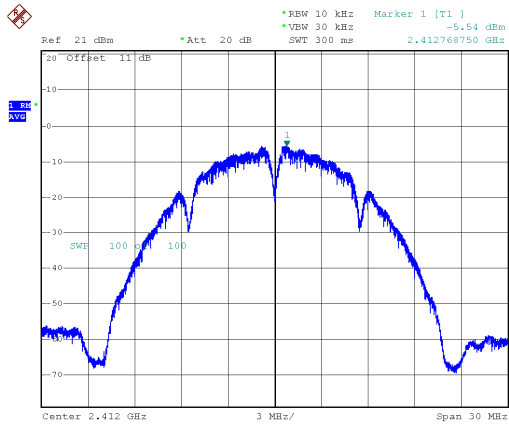


CH09

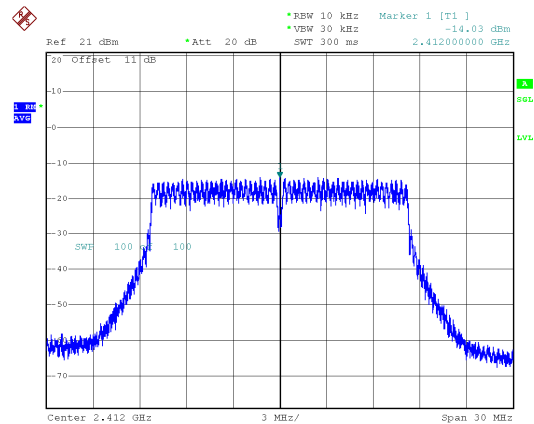




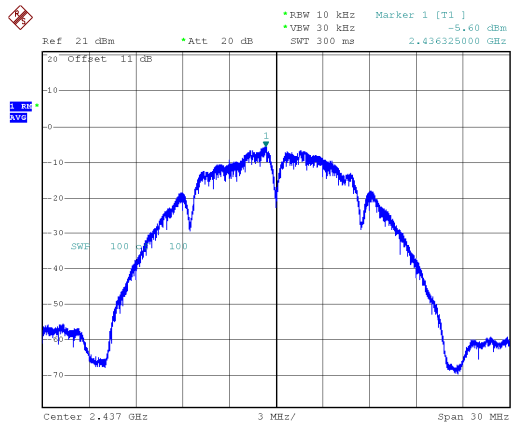
ANT B
Modulation Type: 802.11b
CH01



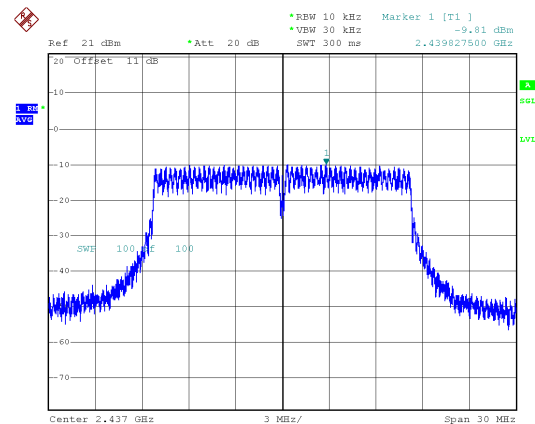
Modulation Type: 802.11g
CH01



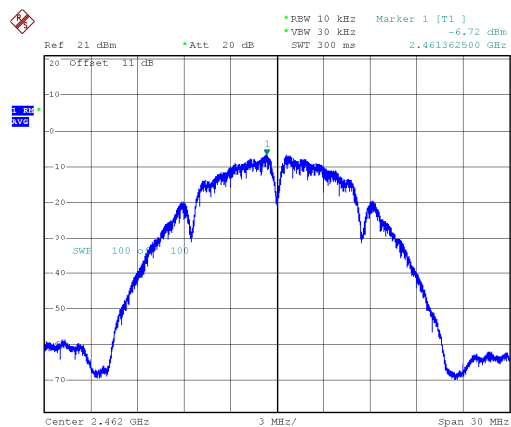
CH06



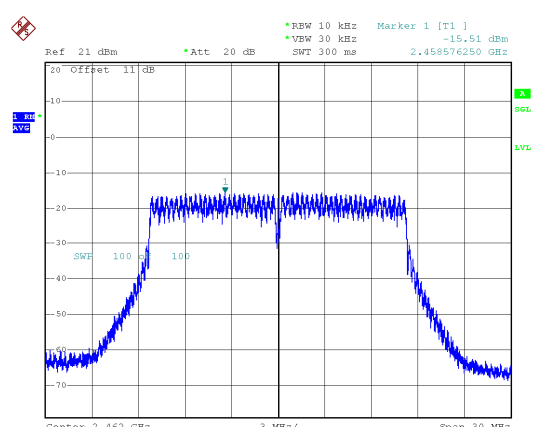
CH06



CH11

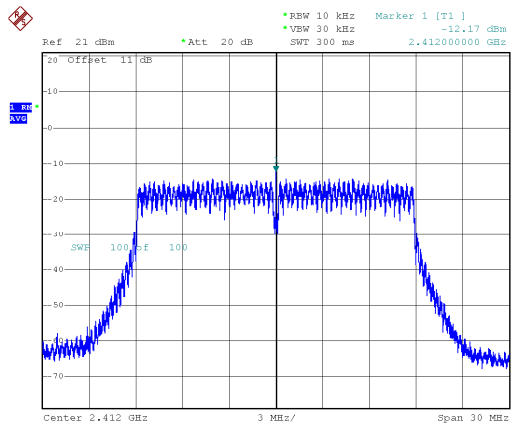


CH11

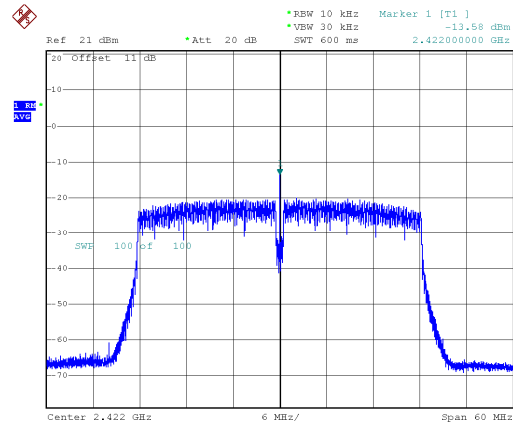




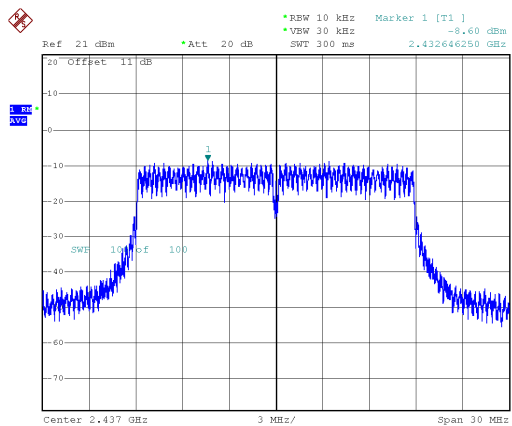
Modulation Type: VHT20
CH01



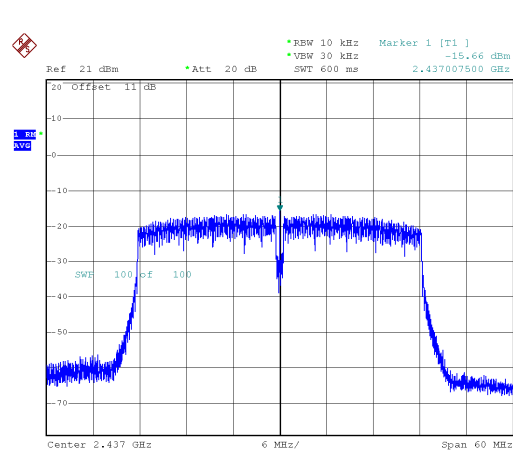
Modulation Type: VHT40
CH03



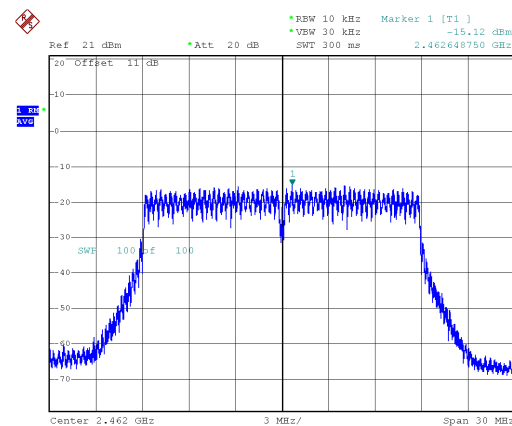
CH06



CH06



CH11



CH09

