FCC Test Report

FCC ID	:	**PY313400249**
Equipment	:	**WiFi USB Adapter**
Model No.	:	**A6210**
Brand Name	:	**NETGEAR**
Applicant	:	**NETGEAR, Inc.**
Address	:	**350 East Plumeria Drive, San Jose, California 95134, USA**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Feb. 12, 2014**
Tested Date	:	**Apr. 30 ~ May 21, 2014**

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FR430402AI	Rev. 01	Initial issue	Jun. 06, 2014
FR430402AI	Rev. 02	Add duty cycle measurement method on Section 1.1.6	Jun. 20, 2014

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.154MHz 43.74 (Margin -12.04dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 840.92MHz 40.41 (Margin -5.59dB) - PK	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11a: 23.78 HT20: 23.61 HT40: 23.60 VHT20: 23.64 VHT40: 23.65 VHT80: 25.98	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
IEEE Std. 802.11	Frequency Range (MHz)	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N_{TX})	Data Rate / MCS
a	5725-5850	5745-5825	149-165 [5]	2	6-54 Mbps
n (HT20)	5725-5850	5745-5825	149-165 [5]	2	MCS 0-15
n (HT40)	5725-5850	5755-5795	151-159 [2]	2	MCS 0-15
ac (VHT20)	5725-5850	5745-5825	149-165 [5]	2	MCS 0-8
ac (VHT40)	5725-5850	5755-5795	151-159 [2]	2	MCS 0-9
ac (VHT80)	5725-5850	5775	155 [1]	2	MCS 0-9
Note 1: RF output power specifies that Maximum Peak Conducted Output Power.. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation. Note 3: 802.11ac supports MIMO CDD function with beam forming.					

1.1.2 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector	Remark
ANT1	dipole	3.4	UFL	---
ANT2	dipole	3.3	UFL	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	USB cradle	0.85m shielded cable w/o core.

1.1.5 Channel List

Frequency band (MHz)		5725~5850	
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	VHT80	
161	5805	155	5775
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	MT7662 QA, V1.0.3.2		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	88.55%	0.53
	VHT20	87.56%	0.58
	VHT40	77.78%	1.09
	VHT80	63.05%	2.00

Note: Follow KDB 558074 section 6 method b to measure duty cycle

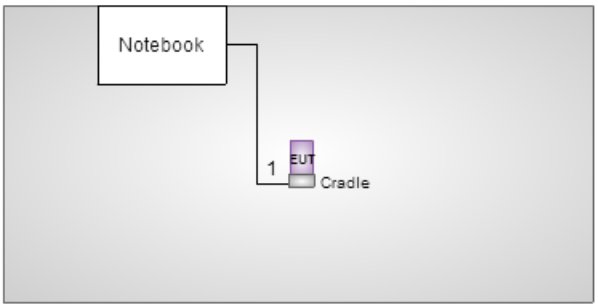
1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	15/19
11a	5785	15/19
11a	5825	15/19
HT20	5745	15/19
HT20	5785	15/19
HT20	5825	15/19
HT40	5755	13/17
HT40	5795	13/17
VHT20	5745	15/19
VHT20	5785	15/19
VHT20	5825	15/19
VHT40	5755	13/17
VHT40	5795	13/17
VHT80	5775	11/16

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	0.85m shielded cable w/o core.

1.3 Test Setup Chart

Test Setup Diagram
 1. USB, 0.85m shielded

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 2 / (03CH02-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Feb. 08, 2014	Feb. 07, 2015
Receiver	R&S	ESR3	101657	Jan. 18, 2014	Jan. 17, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-524	Jan. 08, 2014	Jan. 07, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Jan. 07, 2014	Jan. 06, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Preamplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014
Preamplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 17, 2013	Dec. 16, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 17, 2013	Dec. 16, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-004	Dec. 17, 2013	Dec. 16, 2014
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1207366	Oct. 24, 2013	Oct. 23, 2014
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247
ANSI C63.10-2009
FCC KDB 558074 D01 DTS Meas Guidance v03r01
FCC KDB 644545 D01 Guidance for IEEE 802 11ac v01r02
FCC KDB 644545 D02 Alternative Guidance for 802 11ac v01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Temperature	±0.6 °C
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.26 dB
Radiated emission > 1GHz	±4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	25°C / 66%	Skys Huang
Radiated Emissions	03CH02-WS	20-22°C / 68-69%	Anderson Hong
RF Conducted	TH01-WS	21°C / 67%	Mark Liao

- FCC site registration No.: 657002
- IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT80	5775	MCS 0	---
Radiated Emissions ≤1GHz	VHT80	5775	MCS 0	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz 6dB bandwidth Power spectral density	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	

NOTE:

1. The device can operates as 2 configurations as below and antenna of device can rotate.
   1) Plugin into host directly.
   2) Connect with a USB cradle.

   After pretest for above configurations, device with USB cradle and 90° antenna angle (Antenna open) result was found as the worst case and was shown in this report.

3 Transmitter Test Results

3.1 Conducted Emissions

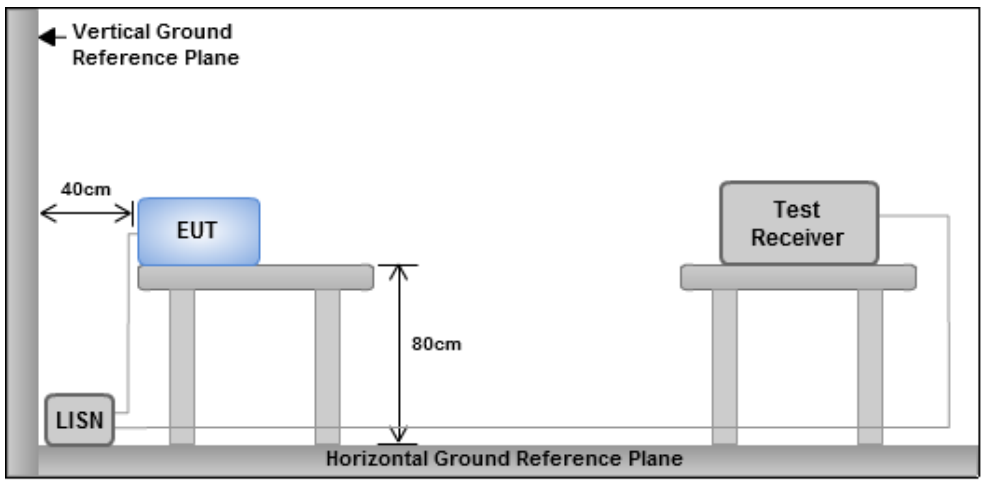
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup

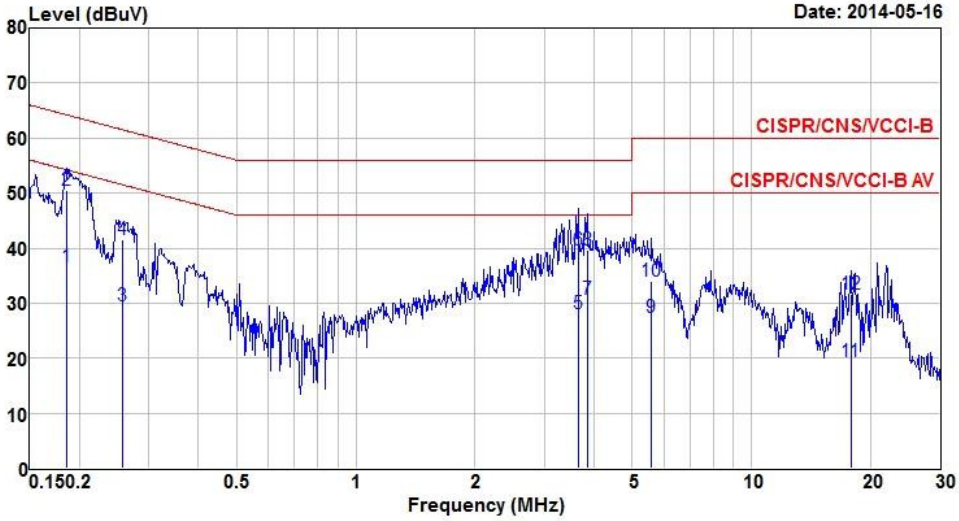


Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

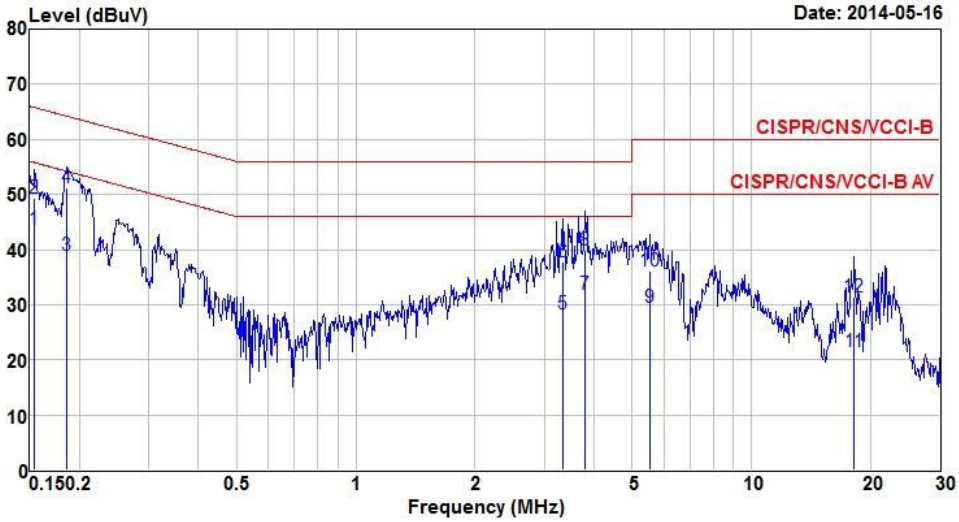
Modulation Mode	VHT80	Test Freq. (MHz)	5775
Power Phase	Line		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.185	36.67	54.24	-17.57	36.27	0.39	0.01	Average
2*	0.185	50.50	64.24	-13.74	50.10	0.39	0.01	QP
3	0.258	29.57	51.51	-21.94	29.17	0.39	0.01	Average
4	0.258	41.45	61.51	-20.06	41.05	0.39	0.01	QP
5	3.642	28.09	46.00	-17.91	27.50	0.46	0.13	Average
6	3.642	39.57	56.00	-16.43	38.98	0.46	0.13	QP
7	3.840	30.78	46.00	-15.22	30.18	0.46	0.14	Average
8	3.840	39.56	56.00	-16.44	38.96	0.46	0.14	QP
9	5.594	27.41	50.00	-22.59	26.73	0.49	0.19	Average
10	5.594	34.01	60.00	-25.99	33.33	0.49	0.19	QP
11	17.849	19.26	50.00	-30.74	18.35	0.55	0.36	Average
12	17.849	31.55	60.00	-28.45	30.64	0.55	0.36	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mode	VHT80	Test Freq. (MHz)	5775
Power Phase	Neutral		



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.154	43.74	55.78	-12.04	43.24	0.48	0.02	Average
2	0.154	49.25	65.78	-16.53	48.75	0.48	0.02	QP
3	0.186	38.94	54.20	-15.26	38.45	0.48	0.01	Average
4	0.186	51.11	64.20	-13.09	50.62	0.48	0.01	QP
5	3.328	28.42	46.00	-17.58	27.79	0.51	0.12	Average
6	3.328	37.71	56.00	-18.29	37.08	0.51	0.12	QP
7	3.799	31.79	46.00	-14.21	31.13	0.52	0.14	Average
8	3.799	39.84	56.00	-16.16	39.18	0.52	0.14	QP
9	5.535	29.61	50.00	-20.39	28.89	0.53	0.19	Average
10	5.535	36.10	60.00	-23.90	35.38	0.53	0.19	QP
11	18.232	21.51	50.00	-28.49	20.58	0.56	0.37	Average
12	18.232	31.48	60.00	-28.52	30.55	0.56	0.37	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 6dB and Occupied Bandwidth

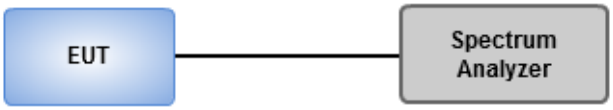
3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

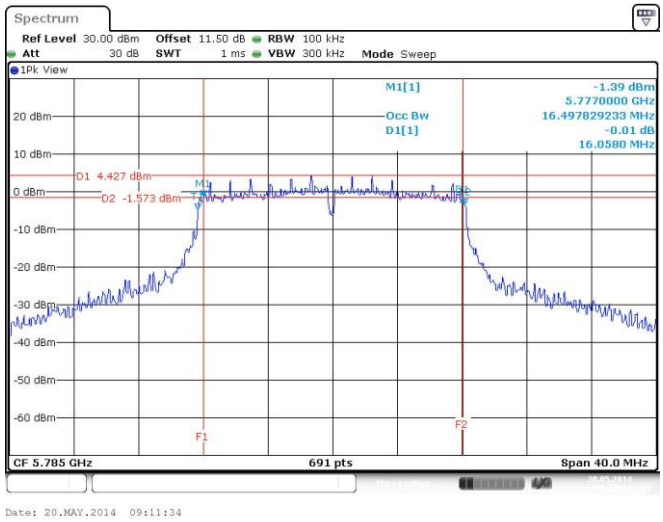
3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

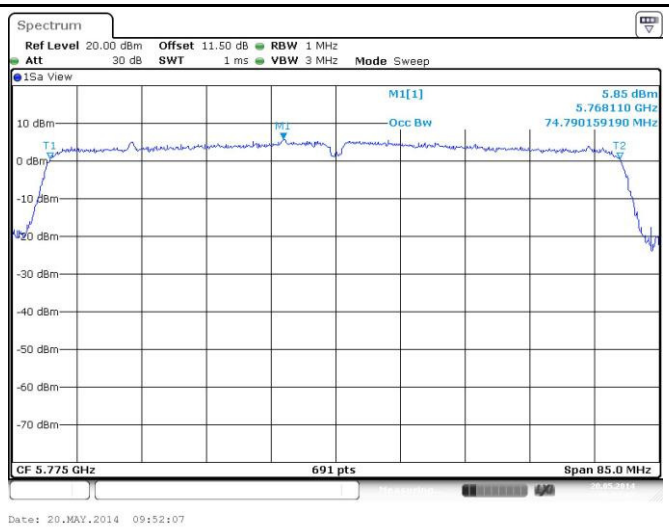
Modulation Mode	N_{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11a	2	5745	16.29	16.29	---	---	500
11a	2	5785	16.06	16.29	---	---	500
11a	2	5825	16.29	16.29	---	---	500
VHT20	2	5745	17.04	16.93	---	---	500
VHT20	2	5785	17.04	16.75	---	---	500
VHT20	2	5825	16.75	16.81	---	---	500
VHT40	2	5755	35.13	35.13	---	---	500
VHT40	2	5795	35.36	35.36	---	---	500
VHT80	2	5775	75.13	75.13	---	---	500

Worst Plots



Modulation Mode	N_{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11a	2	5745	16.86	16.82	---	---
11a	2	5785	16.90	16.86	---	---
11a	2	5825	16.93	16.86	---	---
VHT20	2	5745	17.76	17.80	---	---
VHT20	2	5785	17.76	17.80	---	---
VHT20	2	5825	17.76	17.80	---	---
VHT40	2	5755	36.40	36.34	---	---
VHT40	2	5795	36.40	36.40	---	---
VHT80	2	5775	74.79	74.79	---	---

Worst Plots



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1 Watt.

☒ Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

☒ Antenna gain > 6dBi

☒ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

☐ Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

☒ Maximum Peak Conducted Output Power

☒ **Spectrum analyzer (for VHT 80)**

1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

☒ **Power meter (for 11a, n20, n40, VHT20, VHT40)**

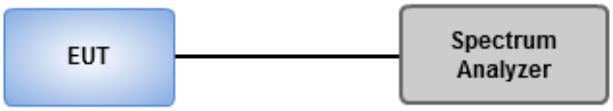
1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

☒ Maximum Conducted Output Power (For reference only)

☒ **Power meter**

1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



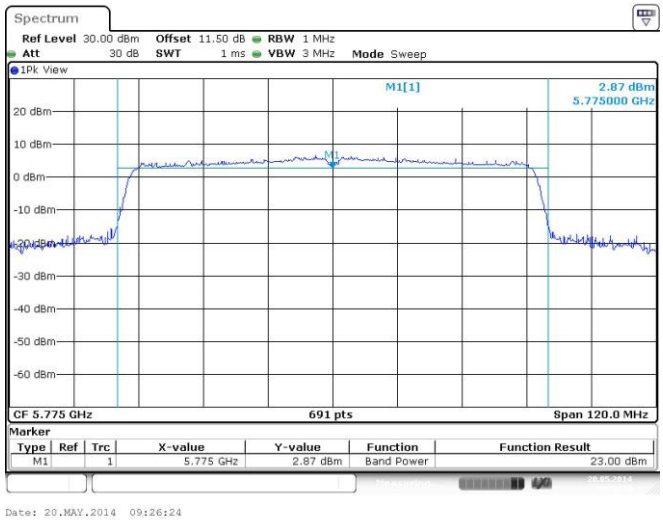
Note:
1. Directional gain for 11ac beam forming $= 10 * \log((10^{3.4/20}+10^{3.3/20})^2/2) = 6.36$ dBi > 6 dBi.
   Limit shall be reduced to 30 dBm – (6.36 dBi – 6 dBi) = 29.64 dBm.

3.3.4 Test Result of Maximum Output Power

Modulation Mode	N_{TX}	Freq. (MHz)	Peak Conducted Output Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	2	5745	20.85	20.44	---	---	232.281	23.66	30.00
11a	2	5785	21.04	20.49	---	---	239.001	23.78	30.00
11a	2	5825	20.89	20.34	---	---	230.887	23.63	30.00
HT20	2	5745	20.78	20.27	---	---	226.088	23.54	30.00
HT20	2	5785	20.86	20.33	---	---	229.794	23.61	30.00
HT20	2	5825	20.82	20.16	---	---	224.534	23.51	30.00
HT40	2	5755	20.75	20.42	---	---	229.004	23.60	30.00
HT40	2	5795	20.71	20.26	---	---	223.930	23.50	30.00
VHT20	2	5745	20.81	20.31	---	---	227.903	23.58	29.64
VHT20	2	5785	20.90	20.35	---	---	231.420	23.64	29.64
VHT20	2	5825	20.85	20.19	---	---	226.091	23.54	29.64
VHT40	2	5755	20.81	20.47	---	---	231.933	23.65	29.64
VHT40	2	5795	20.75	20.30	---	---	226.002	23.54	29.64
VHT80	2	5775	23.00	22.93	---	---	395.862	25.98	29.64

Modulation Mode	N_{TX}	Freq. (MHz)	Conducted (Average) Output Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	2	5745	14.52	14.00	---	---	53.433	17.28	30.00
11a	2	5785	14.62	14.04	---	---	54.325	17.35	30.00
11a	2	5825	14.57	13.96	---	---	53.530	17.29	30.00
HT20	2	5745	14.39	13.90	---	---	52.026	17.16	30.00
HT20	2	5785	14.52	13.91	---	---	52.918	17.24	30.00
HT20	2	5825	14.43	13.88	---	---	52.168	17.17	30.00
HT40	2	5755	14.16	13.85	---	---	50.328	17.02	30.00
HT40	2	5795	14.13	13.82	---	---	49.981	16.99	30.00
VHT20	2	5745	14.46	13.95	---	---	52.757	17.22	29.64
VHT20	2	5785	14.58	13.96	---	---	53.596	17.29	29.64
VHT20	2	5825	14.51	13.92	---	---	52.909	17.24	29.64
VHT40	2	5755	14.22	13.92	---	---	51.084	17.08	29.64
VHT40	2	5795	14.16	13.89	---	---	50.552	17.04	29.64
VHT80	2	5775	14.15	14.06	---	---	51.470	17.12	29.64

Note: Conducted average output power is for reference only.

Worst Plots for VHT80


3.4 Power Spectral Density

3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

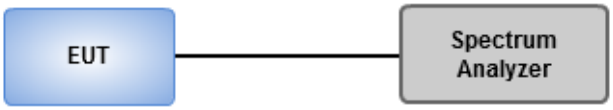
☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.

1. Set the RBW = 3kHz, VBW = 10kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.

1. Set the RBW = 30kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Set the sweep time to: ≥ 10 x (number of measurement points in sweep) x (maximum data rate per stream).
4. Perform the measurement over a single sweep.
5. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup



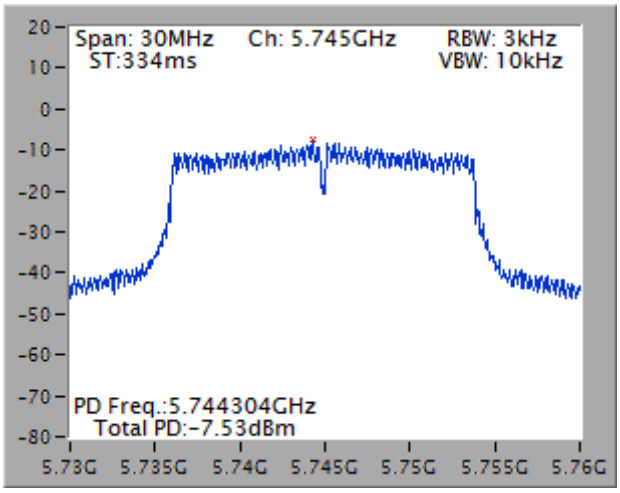
3.4.4 Test Result of Power Spectral Density

Modulation Mode	N_{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11a	2	5745	-7.70	7.64
11a	2	5785	-7.58	7.64
11a	2	5825	-7.89	7.64
VHT20	2	5745	-7.53	7.64
VHT20	2	5785	-8.20	7.64
VHT20	2	5825	-7.55	7.64
VHT40	2	5755	-10.97	7.64
VHT40	2	5795	-11.61	7.64
VHT80	2	5775	-14.83	7.64

Note:

2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{3.4/20}+10^{3.3/20})^2/2) = 6.36$ dBi > 6 dBi.
   Limit shall be reduced to 8 dBm – (6.36 dBi – 6 dBi) = 7.64 dBm.

Worst Plots



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

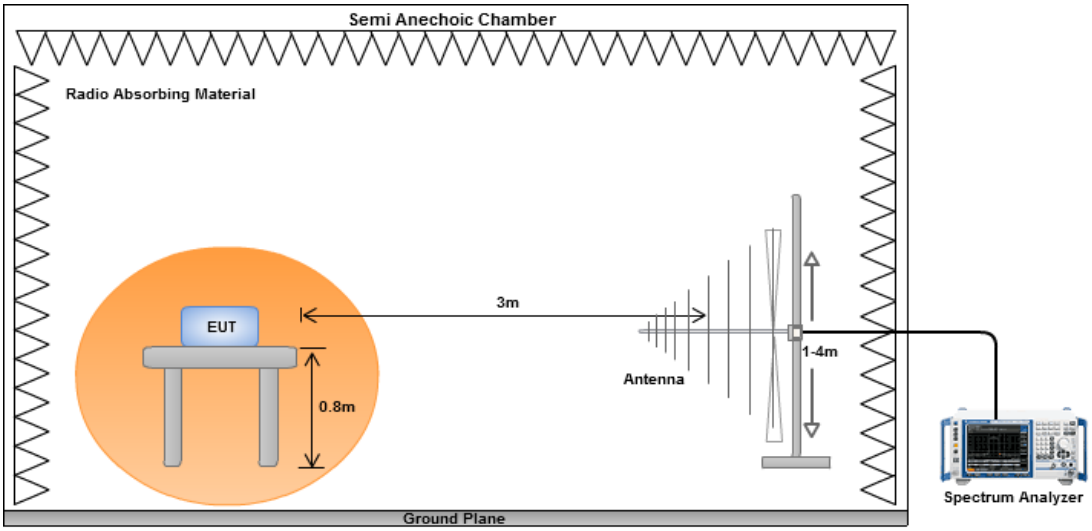
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

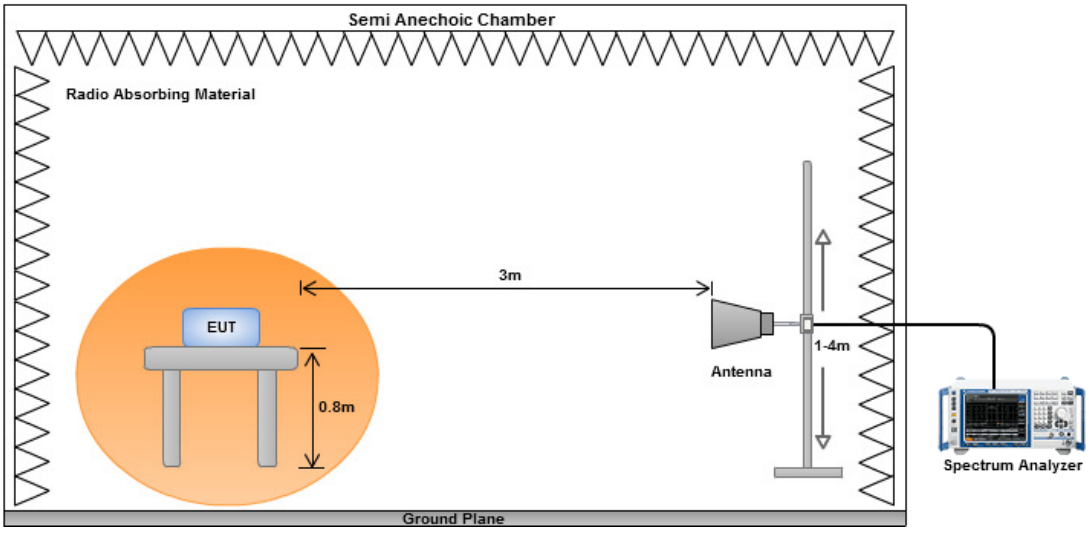
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

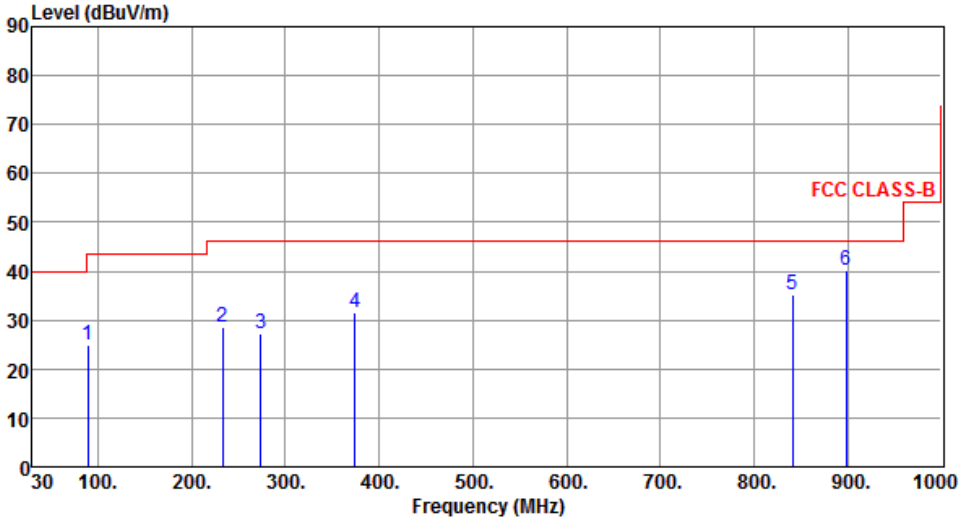


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

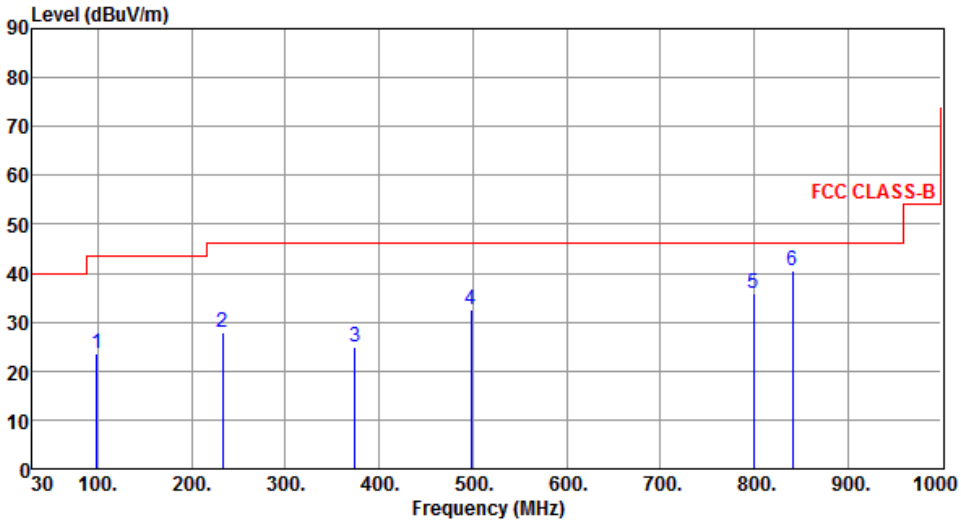
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	89.17	25.04	43.50	-18.46	48.01	-22.97	Peak	---	---
2	232.73	28.58	46.00	-17.42	47.17	-18.59	Peak	---	---
3	273.47	27.25	46.00	-18.75	44.31	-17.06	Peak	---	---
4	374.35	31.64	46.00	-14.36	46.08	-14.44	Peak	---	---
5	840.92	35.20	46.00	-10.80	41.55	-6.35	Peak	---	---
6	898.15	40.19	46.00	-5.81	45.75	-5.56	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		

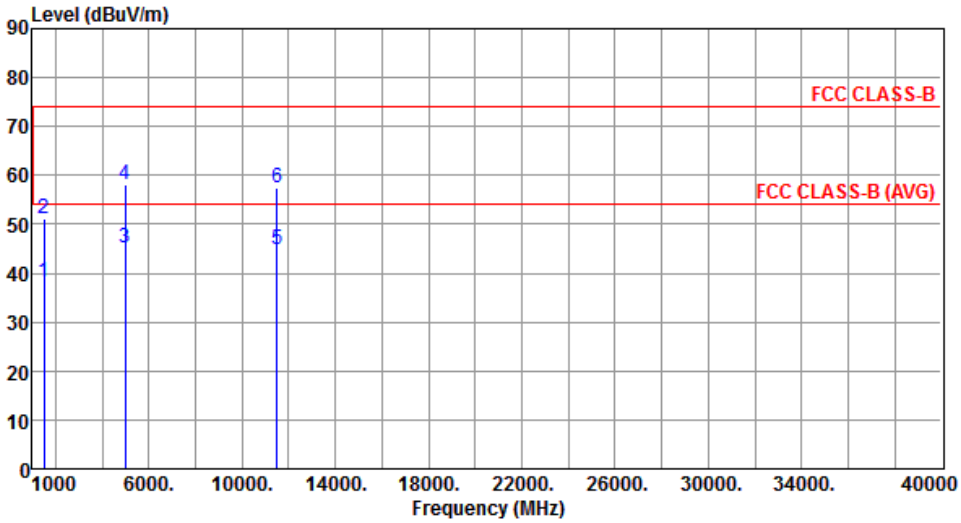


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	98.87	23.61	43.50	-19.89	45.41	-21.80	Peak	---	---
2	232.73	27.85	46.00	-18.15	46.44	-18.59	Peak	---	---
3	374.35	24.94	46.00	-21.06	39.38	-14.44	Peak	---	---
4	498.51	32.67	46.00	-13.33	44.39	-11.72	Peak	---	---
5	799.21	35.72	46.00	-10.28	42.41	-6.69	Peak	---	---
6	840.92	40.41	46.00	-5.59	46.76	-6.35	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

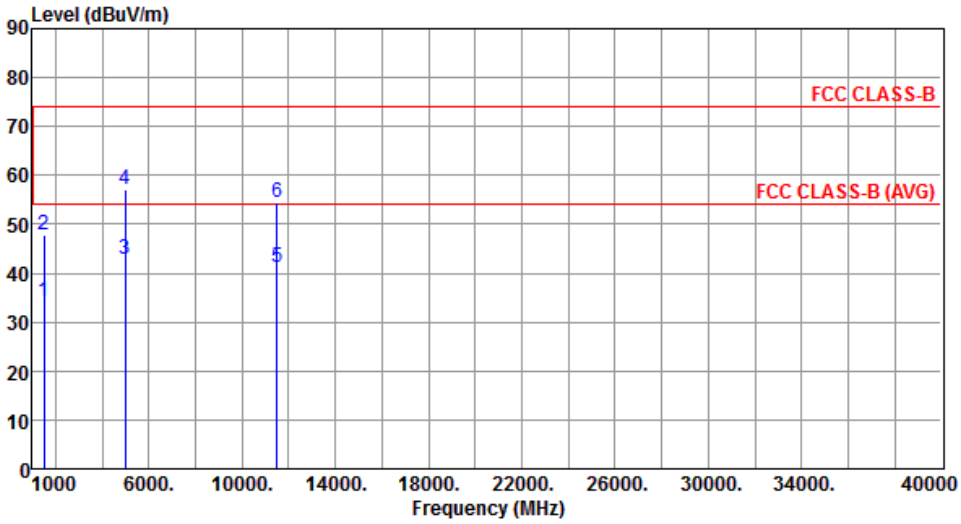
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.29	54.00	-15.71	44.76	-6.47	Average	---	---
2	1500.00	51.24	74.00	-22.76	57.71	-6.47	Peak	---	---
3	5000.00	45.02	54.00	-8.98	39.60	5.42	Average	---	---
4	5000.00	58.09	74.00	-15.91	52.67	5.42	Peak	---	---
5	11490.00	44.78	54.00	-9.22	29.58	15.20	Average	---	---
6	11490.00	57.31	74.00	-16.69	42.11	15.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

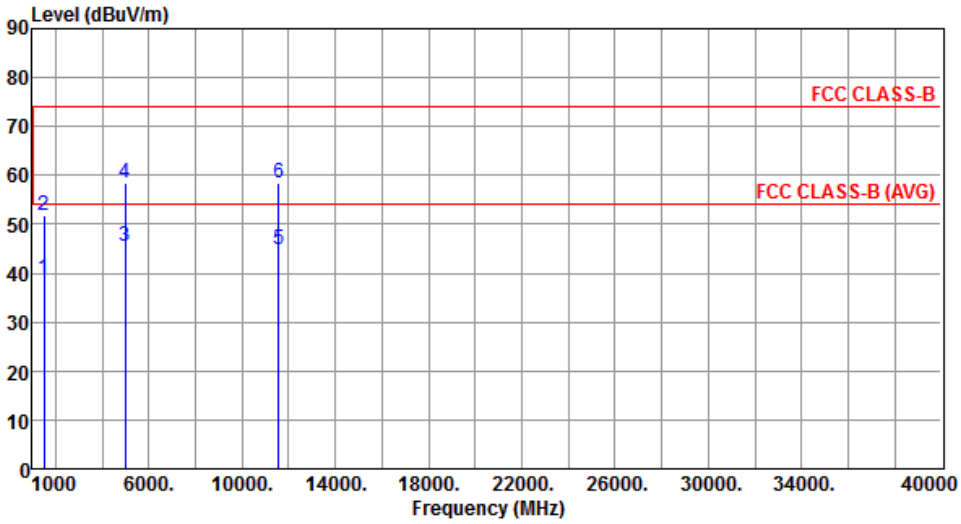
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.13	54.00	-19.87	40.60	-6.47	Average	---	---
2	1500.00	47.96	74.00	-26.04	54.43	-6.47	Peak	---	---
3	5000.00	42.99	54.00	-11.01	37.57	5.42	Average	---	---
4	5000.00	57.23	74.00	-16.77	51.81	5.42	Peak	---	---
5	11490.00	41.34	54.00	-12.66	26.14	15.20	Average	---	---
6	11490.00	54.38	74.00	-19.62	39.18	15.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

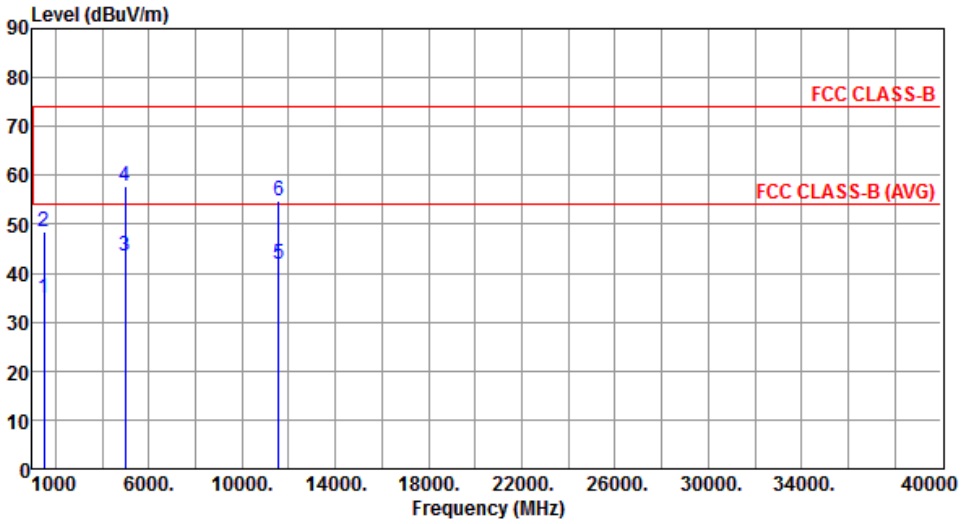
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.94	54.00	-15.06	45.41	-6.47	Average	---	---
2	1500.00	51.78	74.00	-22.22	58.25	-6.47	Peak	---	---
3	5000.00	45.55	54.00	-8.45	40.13	5.42	Average	---	---
4	5000.00	58.47	74.00	-15.53	53.05	5.42	Peak	---	---
5	11570.00	44.75	54.00	-9.25	29.60	15.15	Average	---	---
6	11570.00	58.45	74.00	-15.55	43.30	15.15	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

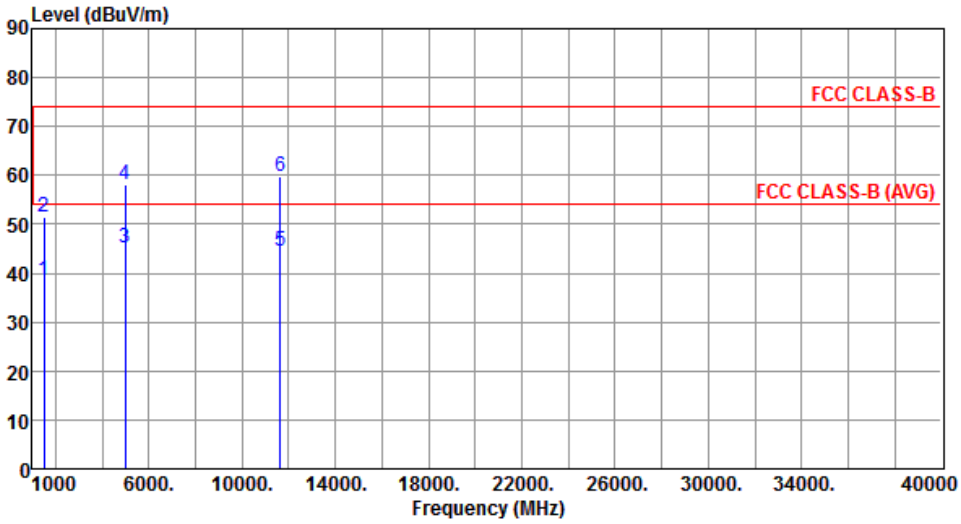
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.75	54.00	-19.25	41.22	-6.47	Average	---	---
2	1500.00	48.46	74.00	-25.54	54.93	-6.47	Peak	---	---
3	5000.00	43.36	54.00	-10.64	37.94	5.42	Average	---	---
4	5000.00	57.84	74.00	-16.16	52.42	5.42	Peak	---	---
5	11570.00	41.88	54.00	-12.12	26.73	15.15	Average	---	---
6	11570.00	54.74	74.00	-19.26	39.59	15.15	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

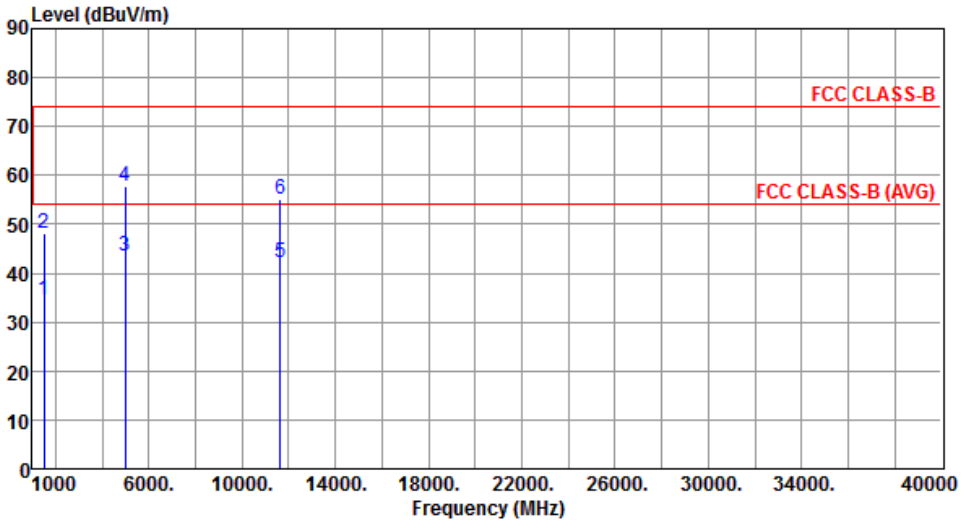
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.42	54.00	-15.58	44.89	-6.47	Average	---	---
2	1500.00	51.61	74.00	-22.39	58.08	-6.47	Peak	---	---
3	5000.00	45.16	54.00	-8.84	39.74	5.42	Average	---	---
4	5000.00	58.03	74.00	-15.97	52.61	5.42	Peak	---	---
5	11650.00	44.51	54.00	-9.49	29.40	15.11	Average	---	---
6	11650.00	59.69	74.00	-14.31	44.58	15.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

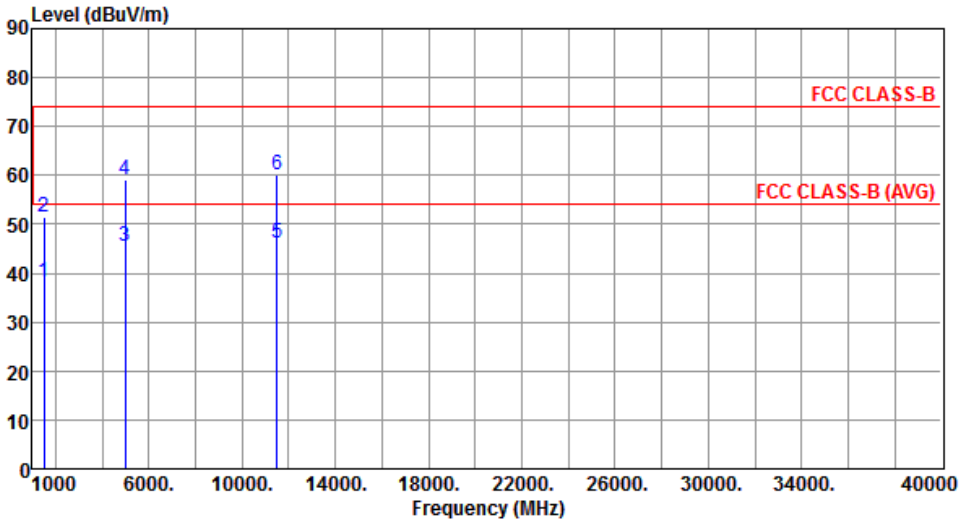


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.58	54.00	-19.42	41.05	-6.47	Average	---	---
2	1500.00	48.13	74.00	-25.87	54.60	-6.47	Peak	---	---
3	5000.00	43.44	54.00	-10.56	38.02	5.42	Average	---	---
4	5000.00	57.68	74.00	-16.32	52.26	5.42	Peak	---	---
5	11650.00	42.26	54.00	-11.74	27.15	15.11	Average	---	---
6	11650.00	55.18	74.00	-18.82	40.07	15.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

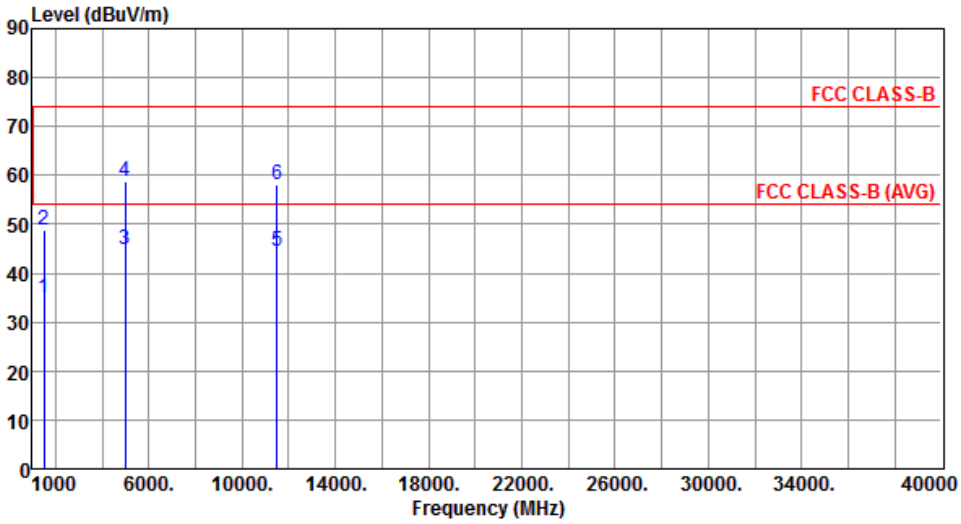
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.29	54.00	-15.71	44.76	-6.47	Average	---	---
2	1500.00	51.46	74.00	-22.54	57.93	-6.47	Peak	---	---
3	5000.00	45.66	54.00	-8.34	40.24	5.42	Average	---	---
4	5000.00	58.99	74.00	-15.01	53.57	5.42	Peak	---	---
5	11490.00	46.07	54.00	-7.93	30.87	15.20	Average	---	---
6	11490.00	60.13	74.00	-13.87	44.93	15.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

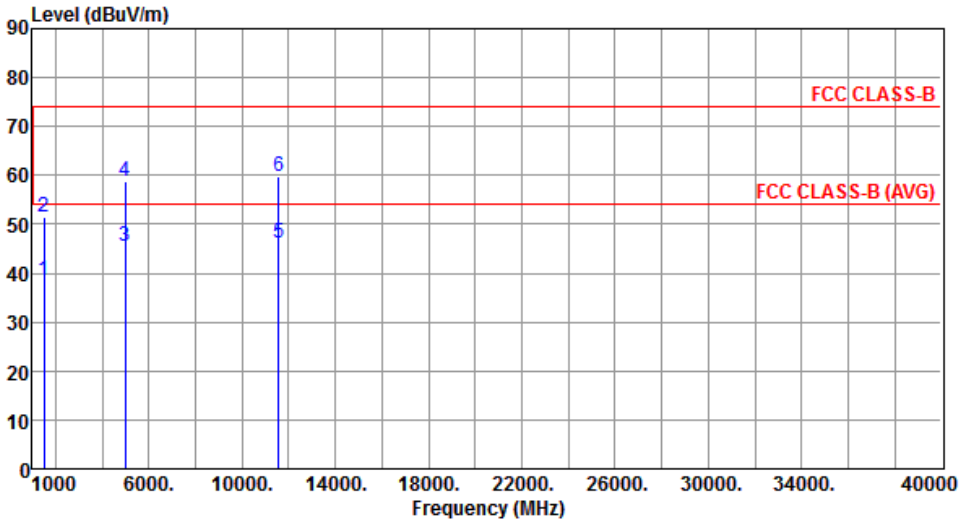
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.80	54.00	-19.20	41.27	-6.47	Average	---	---
2	1500.00	48.92	74.00	-25.08	55.39	-6.47	Peak	---	---
3	5000.00	44.90	54.00	-9.10	39.48	5.42	Average	---	---
4	5000.00	58.63	74.00	-15.37	53.21	5.42	Peak	---	---
5	11490.00	44.45	54.00	-9.55	29.25	15.20	Average	---	---
6	11490.00	58.18	74.00	-15.82	42.98	15.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

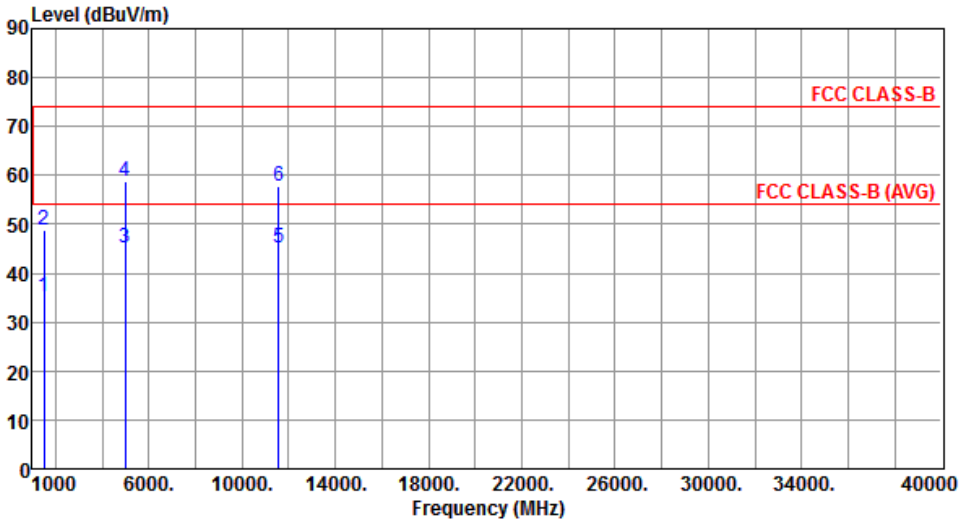
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.45	54.00	-15.55	44.92	-6.47	Average	---	---
2	1500.00	51.34	74.00	-22.66	57.81	-6.47	Peak	---	---
3	5000.00	45.50	54.00	-8.50	40.08	5.42	Average	---	---
4	5000.00	58.74	74.00	-15.26	53.32	5.42	Peak	---	---
5	11570.00	46.26	54.00	-7.74	31.11	15.15	Average	---	---
6	11570.00	59.83	74.00	-14.17	44.68	15.15	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

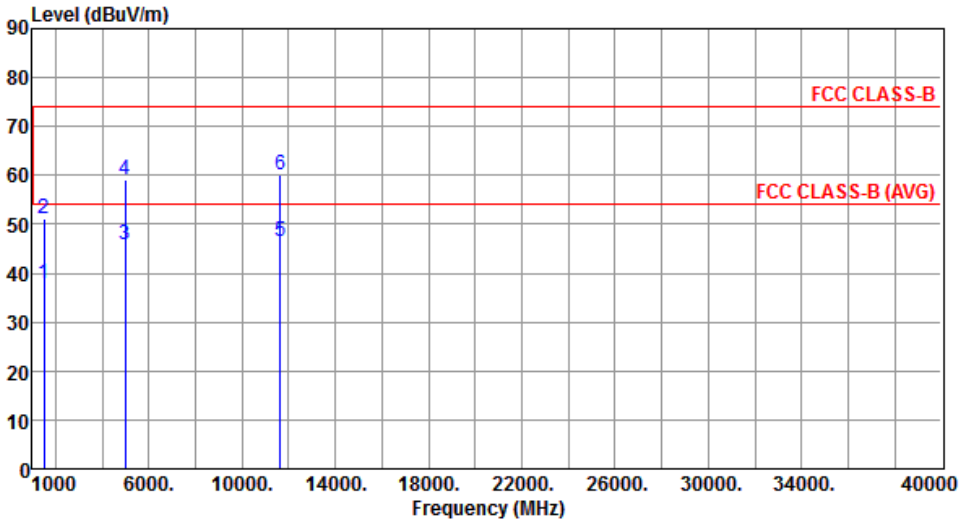
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.21	54.00	-18.79	41.68	-6.47	Average	---	---
2	1500.00	48.77	74.00	-25.23	55.24	-6.47	Peak	---	---
3	5000.00	45.23	54.00	-8.77	39.81	5.42	Average	---	---
4	5000.00	58.94	74.00	-15.06	53.52	5.42	Peak	---	---
5	11570.00	45.02	54.00	-8.98	29.87	15.15	Average	---	---
6	11570.00	57.88	74.00	-16.12	42.73	15.15	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

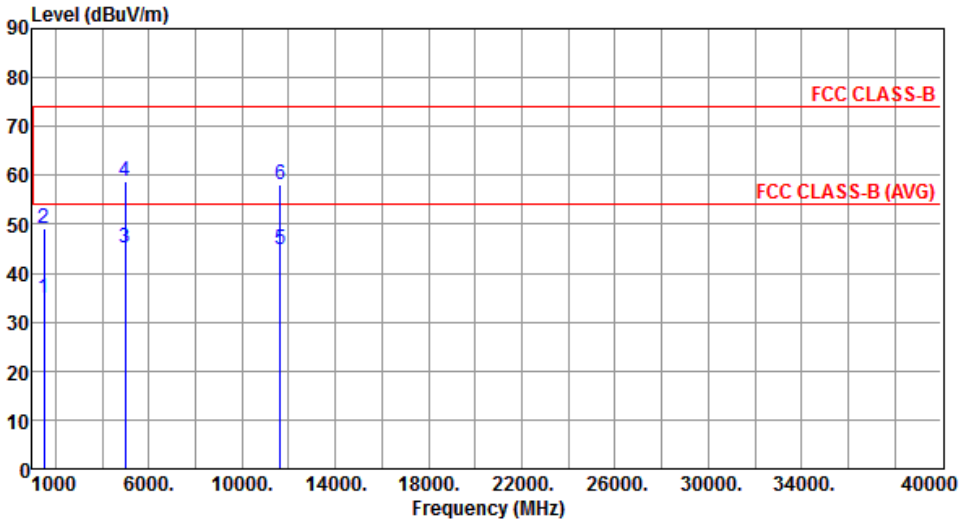
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	37.89	54.00	-16.11	44.36	-6.47	Average	---	---
2	1500.00	51.18	74.00	-22.82	57.65	-6.47	Peak	---	---
3	5000.00	45.79	54.00	-8.21	40.37	5.42	Average	---	---
4	5000.00	59.00	74.00	-15.00	53.58	5.42	Peak	---	---
5	11650.00	46.47	54.00	-7.53	31.36	15.11	Average	---	---
6	11650.00	60.08	74.00	-13.92	44.97	15.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

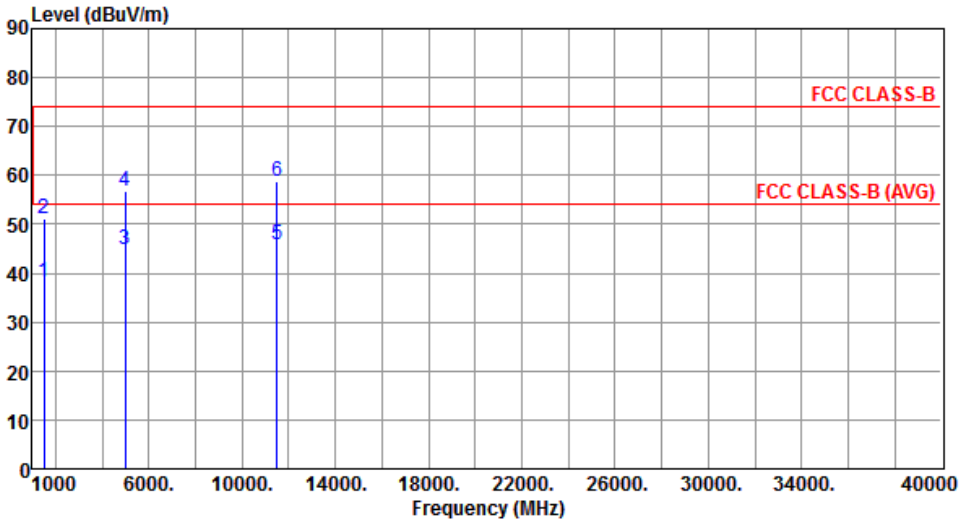


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.88	54.00	-19.12	41.35	-6.47	Average	---	---
2	1500.00	49.25	74.00	-24.75	55.72	-6.47	Peak	---	---
3	5000.00	45.09	54.00	-8.91	39.67	5.42	Average	---	---
4	5000.00	58.84	74.00	-15.16	53.42	5.42	Peak	---	---
5	11650.00	44.75	54.00	-9.25	29.64	15.11	Average	---	---
6	11650.00	57.96	74.00	-16.04	42.85	15.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

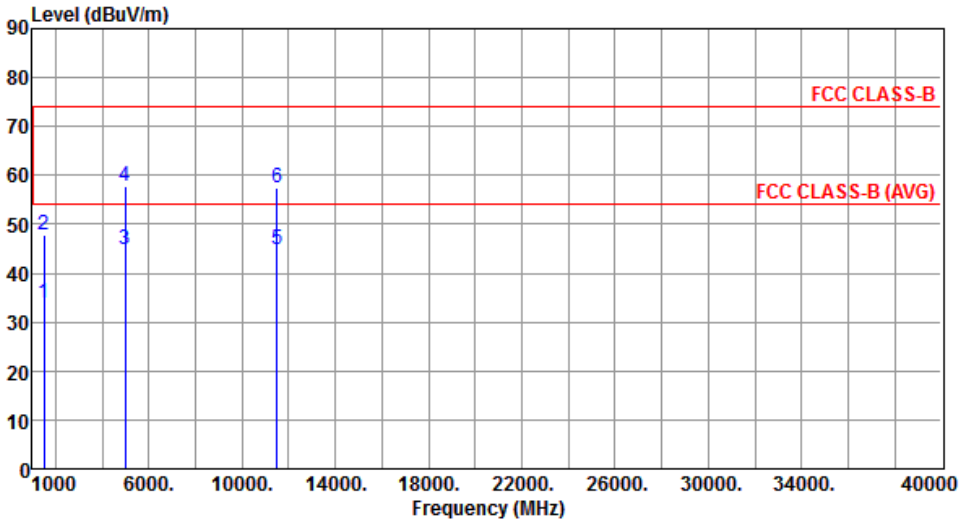
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	38.06	54.00	-15.94	44.53	-6.47	Average	---	---
2	1500.00	51.20	74.00	-22.80	57.67	-6.47	Peak	---	---
3	5000.00	44.75	54.00	-9.25	39.33	5.42	Average	---	---
4	5000.00	56.68	74.00	-17.32	51.26	5.42	Peak	---	---
5	11510.00	45.90	54.00	-8.10	30.72	15.18	Average	---	---
6	11510.00	58.70	74.00	-15.30	43.52	15.18	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

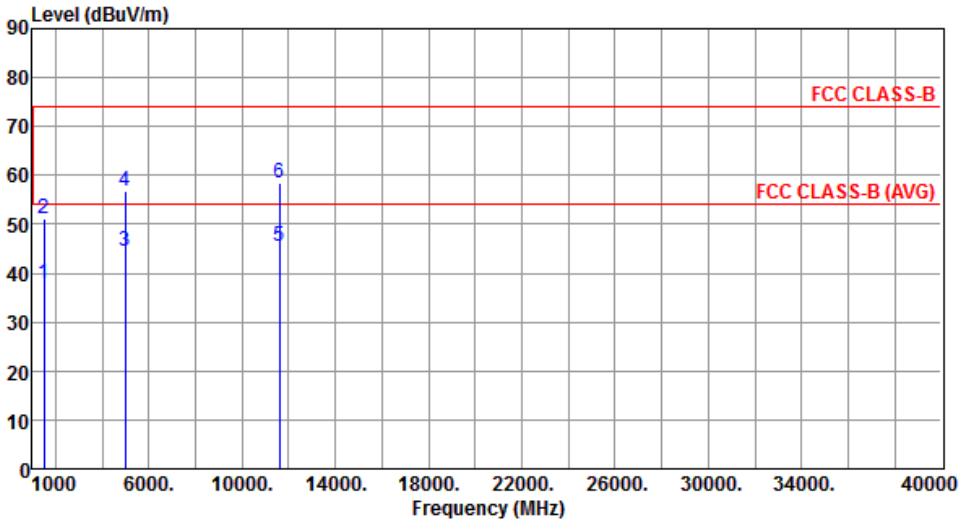
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.98	54.00	-20.02	40.45	-6.47	Average	---	---
2	1500.00	47.90	74.00	-26.10	54.37	-6.47	Peak	---	---
3	5000.00	44.80	54.00	-9.20	39.38	5.42	Average	---	---
4	5000.00	57.89	74.00	-16.11	52.47	5.42	Peak	---	---
5	11510.00	44.75	54.00	-9.25	29.57	15.18	Average	---	---
6	11510.00	57.33	74.00	-16.67	42.15	15.18	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

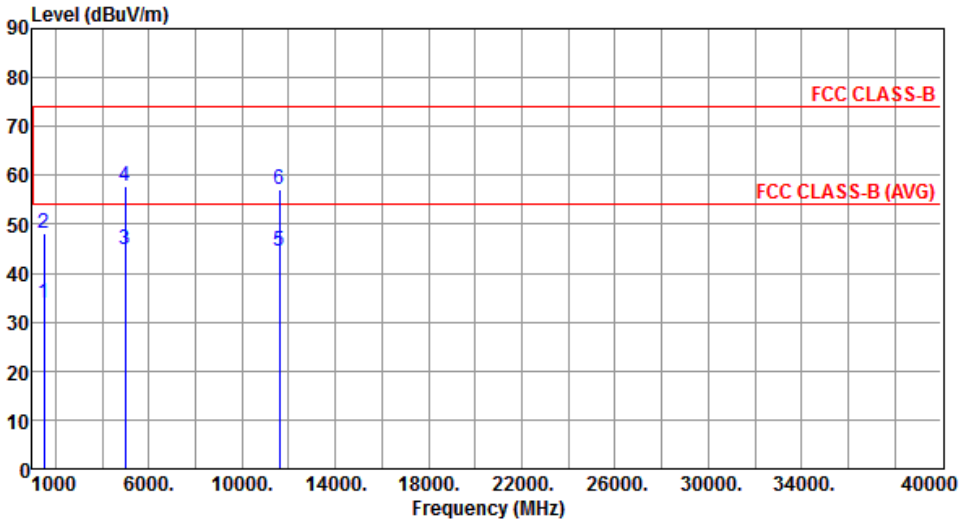
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	37.80	54.00	-16.20	44.27	-6.47	Average	---	---
2	1500.00	51.12	74.00	-22.88	57.59	-6.47	Peak	---	---
3	5000.00	44.56	54.00	-9.44	39.14	5.42	Average	---	---
4	5000.00	56.86	74.00	-17.14	51.44	5.42	Peak	---	---
5	11590.00	45.62	54.00	-8.38	30.48	15.14	Average	---	---
6	11590.00	58.38	74.00	-15.62	43.24	15.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

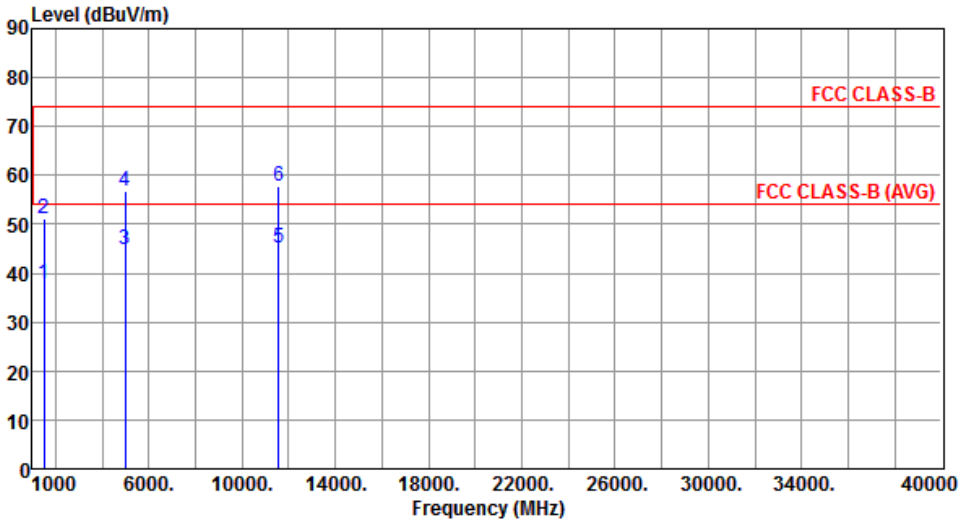


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.96	54.00	-20.04	40.43	-6.47	Average	---	---
2	1500.00	48.04	74.00	-25.96	54.51	-6.47	Peak	---	---
3	5000.00	44.75	54.00	-9.25	39.33	5.42	Average	---	---
4	5000.00	57.67	74.00	-16.33	52.25	5.42	Peak	---	---
5	11590.00	44.38	54.00	-9.62	29.24	15.14	Average	---	---
6	11590.00	57.12	74.00	-16.88	41.98	15.14	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

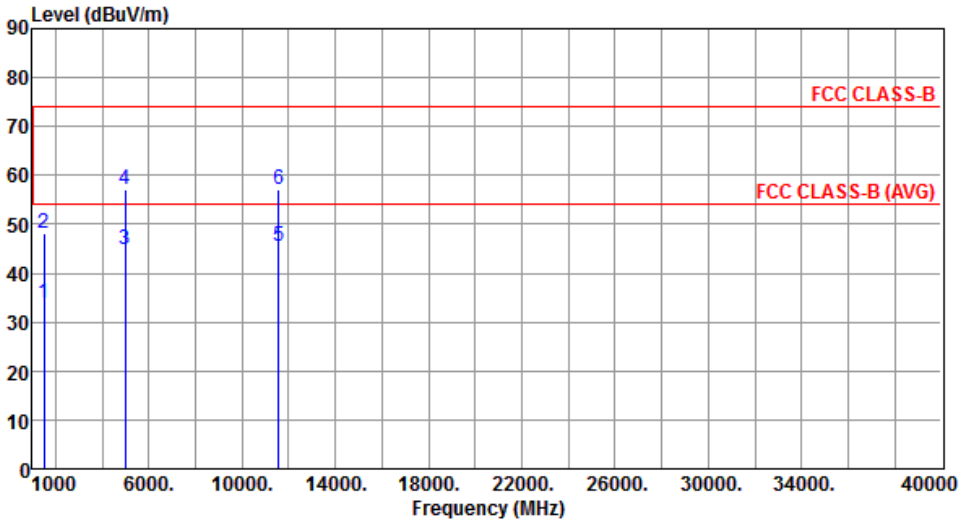
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	37.91	54.00	-16.09	44.38	-6.47	Average	---	---
2	1500.00	51.17	74.00	-22.83	57.64	-6.47	Peak	---	---
3	5000.00	44.75	54.00	-9.25	39.33	5.42	Average	---	---
4	5000.00	56.66	74.00	-17.34	51.24	5.42	Peak	---	---
5	11550.00	45.05	54.00	-8.95	29.89	15.16	Average	---	---
6	11550.00	57.75	74.00	-16.25	42.59	15.16	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.86	54.00	-20.14	40.33	-6.47	Average	---	---
2	1500.00	48.00	74.00	-26.00	54.47	-6.47	Peak	---	---
3	5000.00	44.83	54.00	-9.17	39.41	5.42	Average	---	---
4	5000.00	57.17	74.00	-16.83	51.75	5.42	Peak	---	---
5	11550.00	45.45	54.00	-8.55	30.29	15.16	Average	---	---
6	11550.00	57.17	74.00	-16.83	42.01	15.16	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor, cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Unwanted Emissions into Non-Restricted Frequency Bands

3.6.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

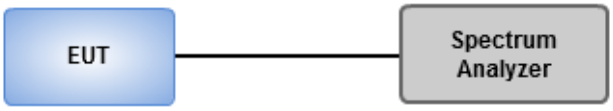
Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

Unwanted Emissions Level Measurement

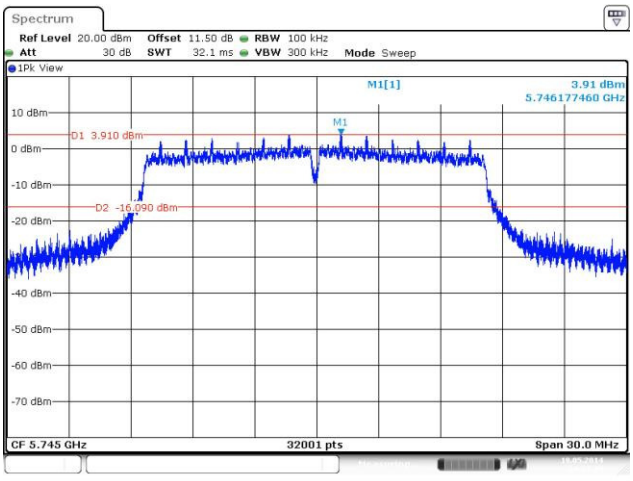
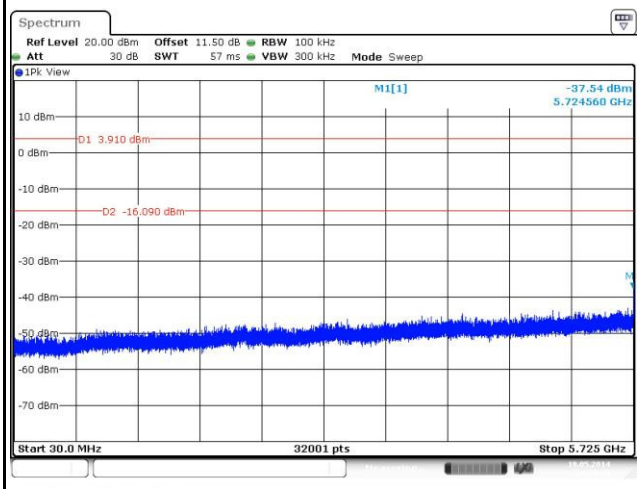
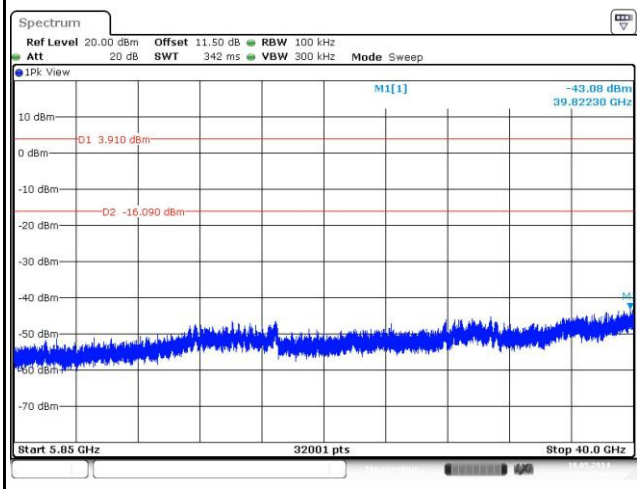
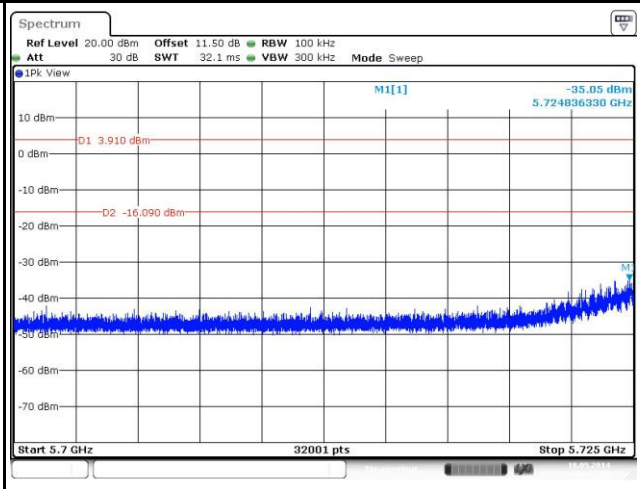
1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

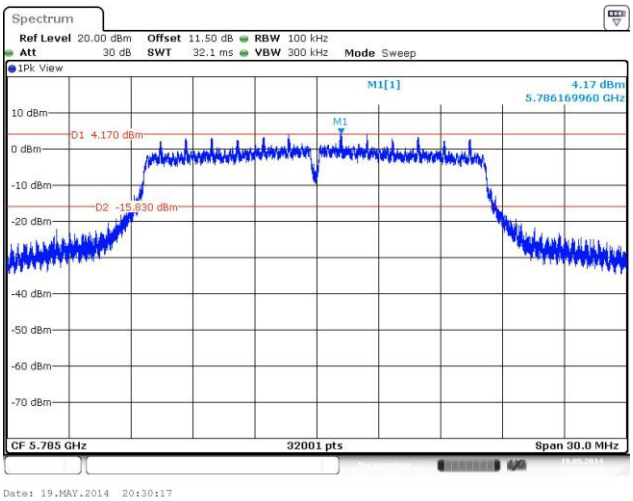
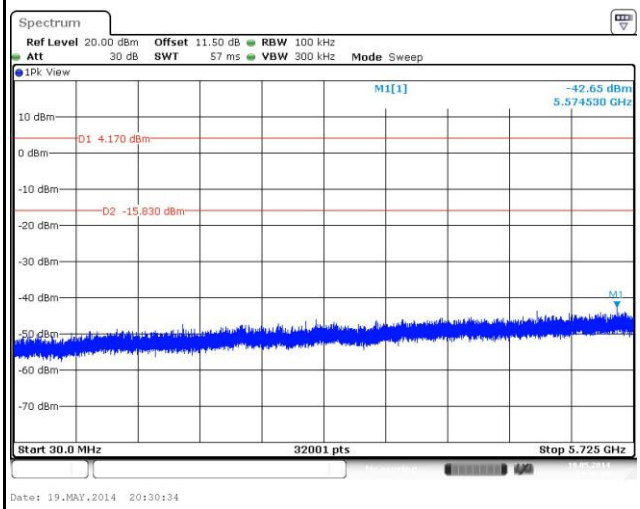
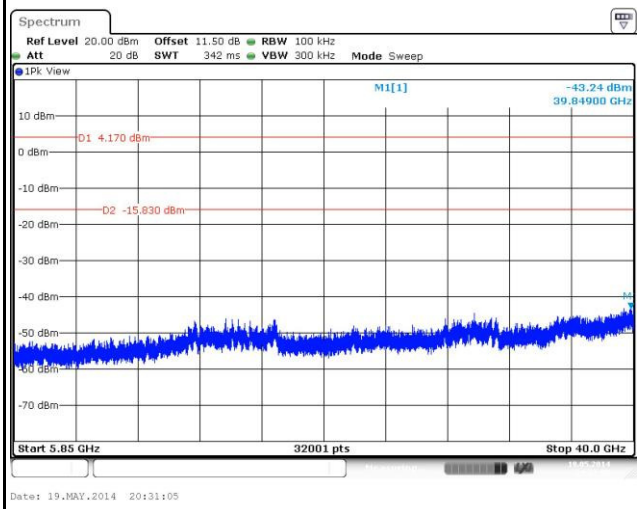
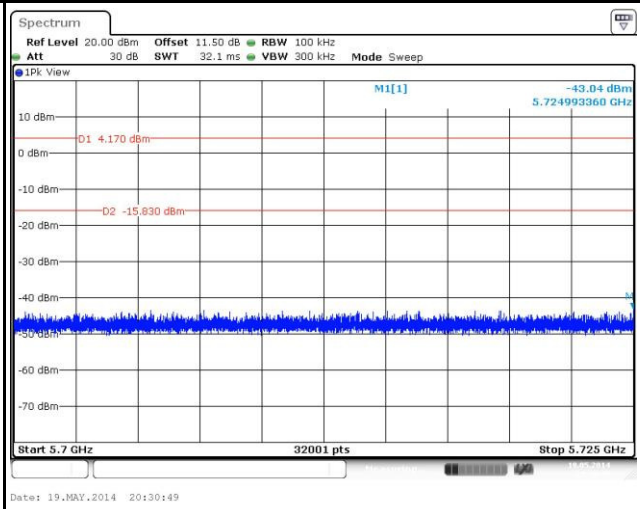
3.6.3 Test Setup

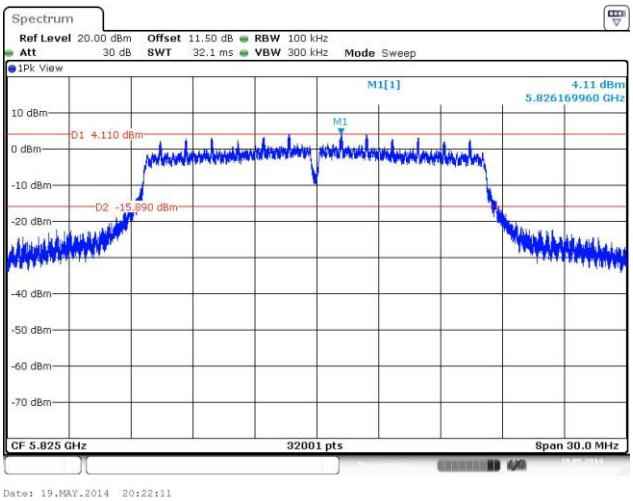
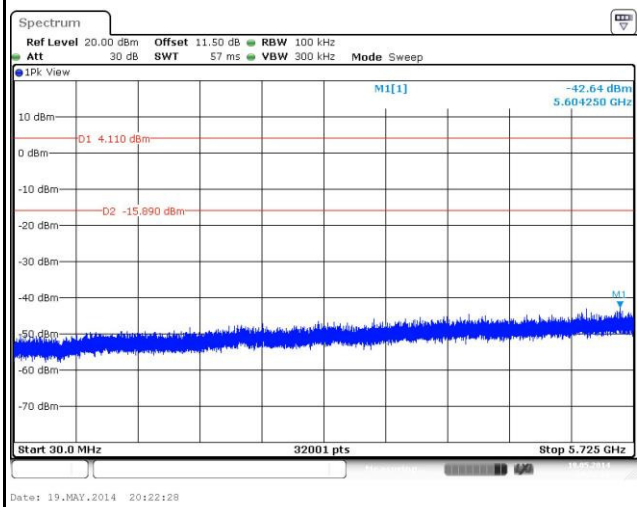
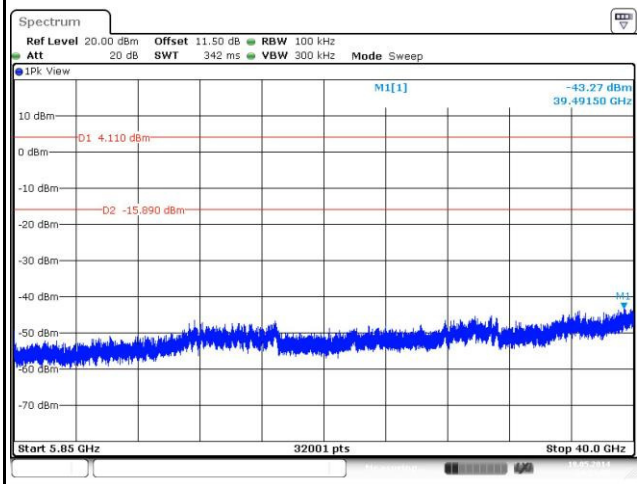
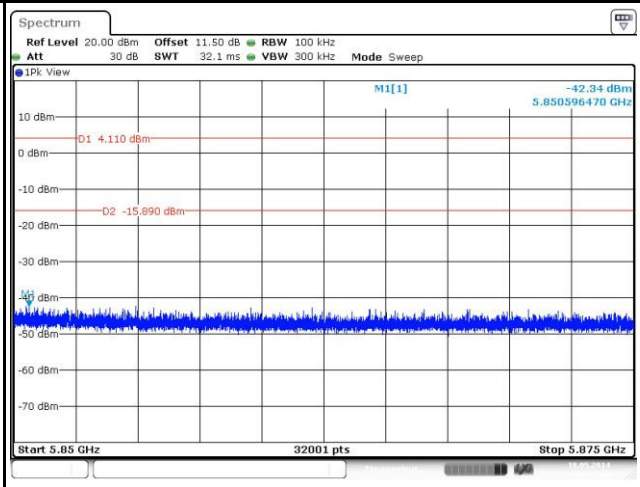


3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

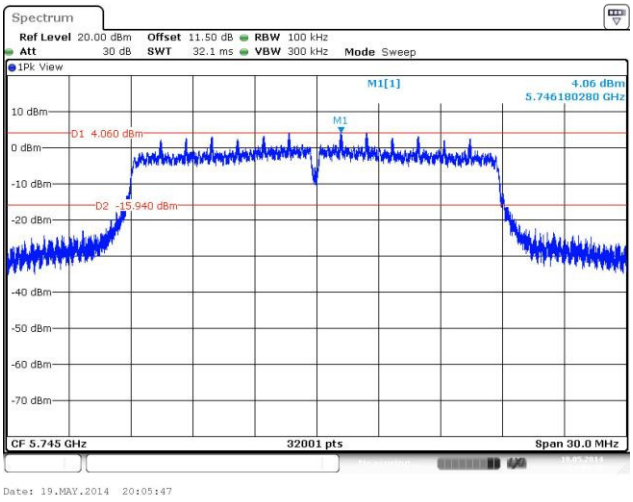
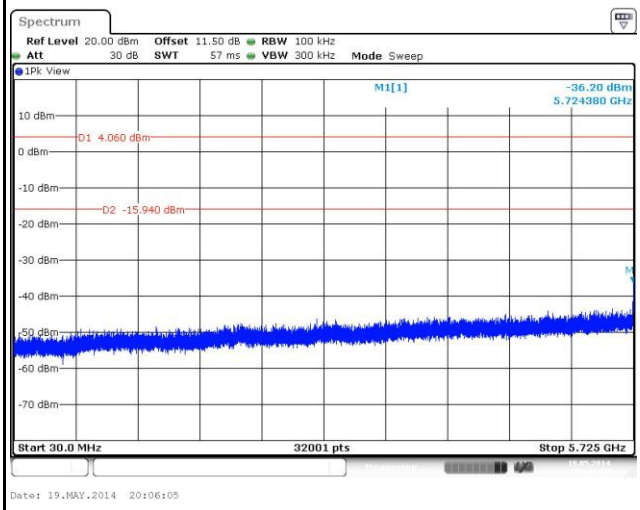
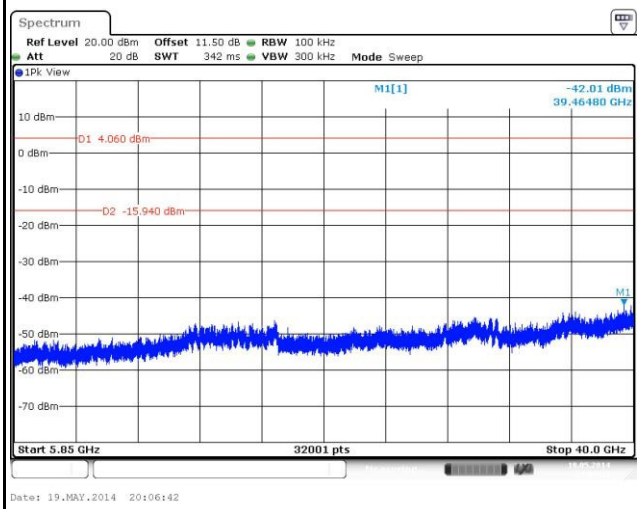
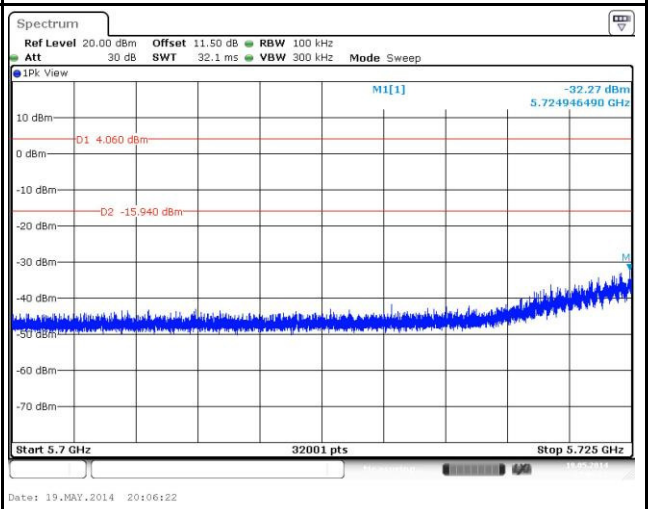
802.11a

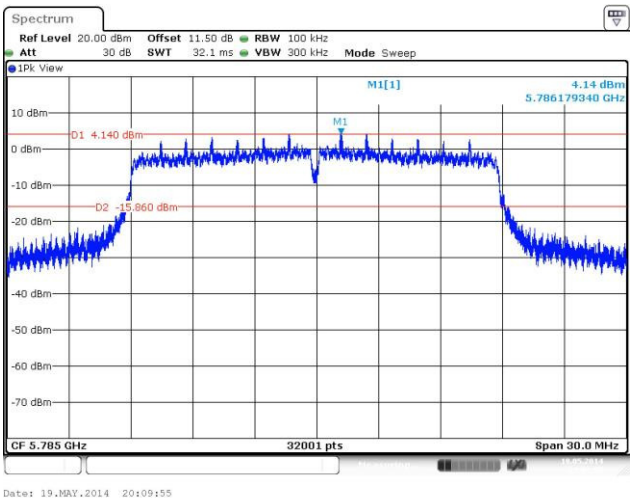
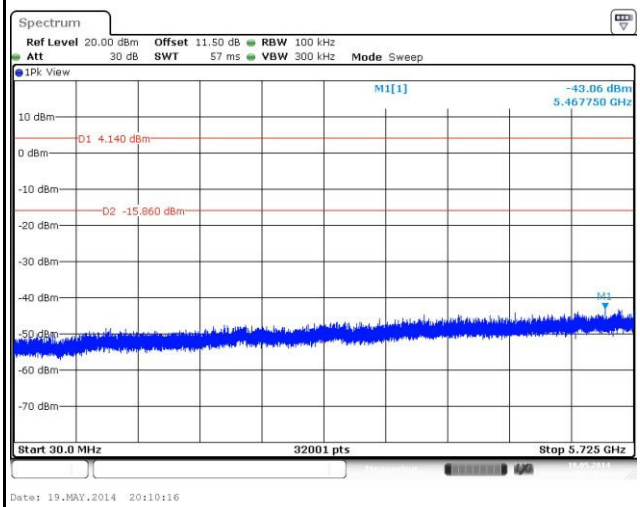
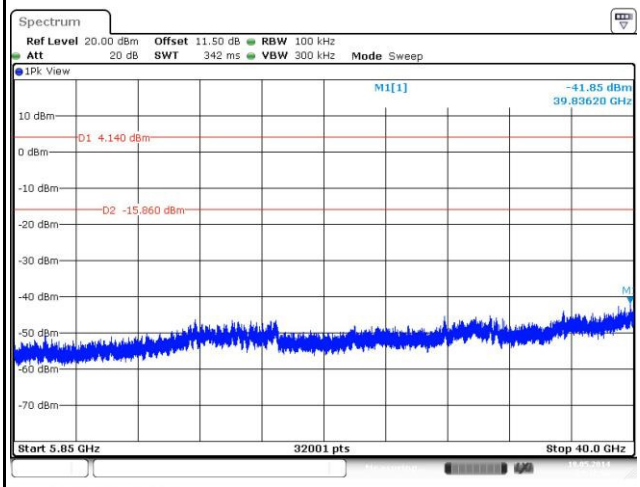
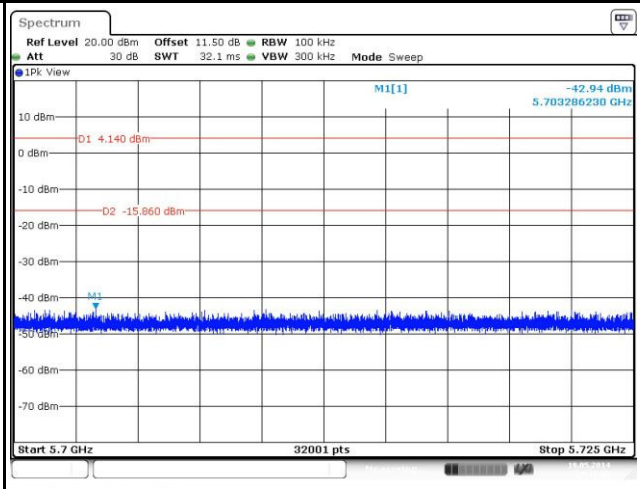
Reference Level	Tx 5745MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

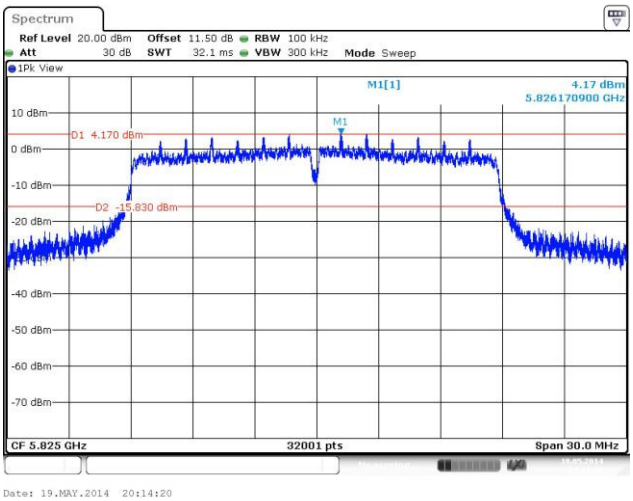
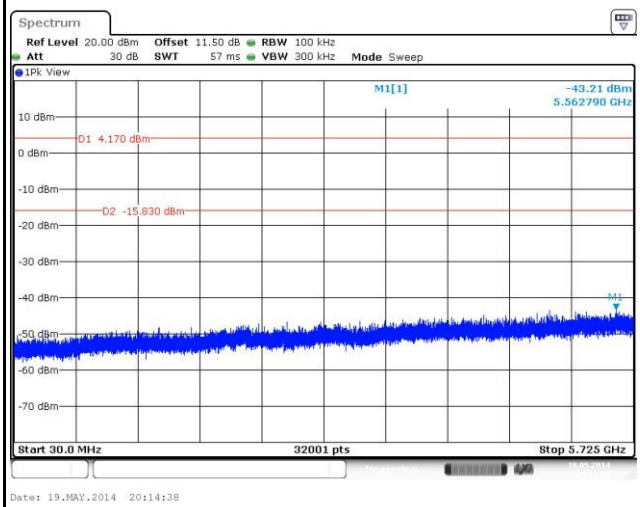
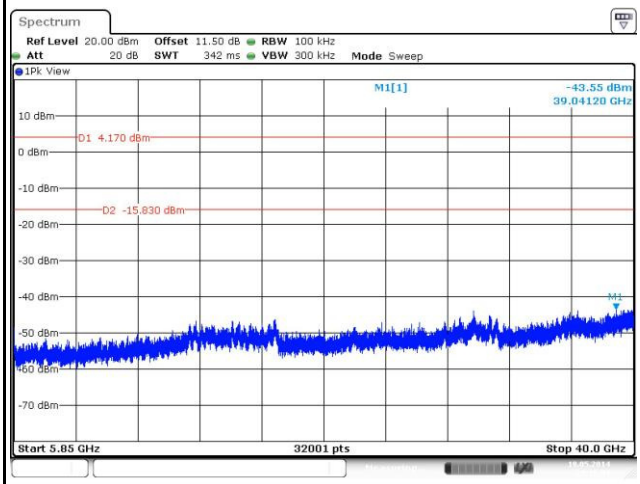
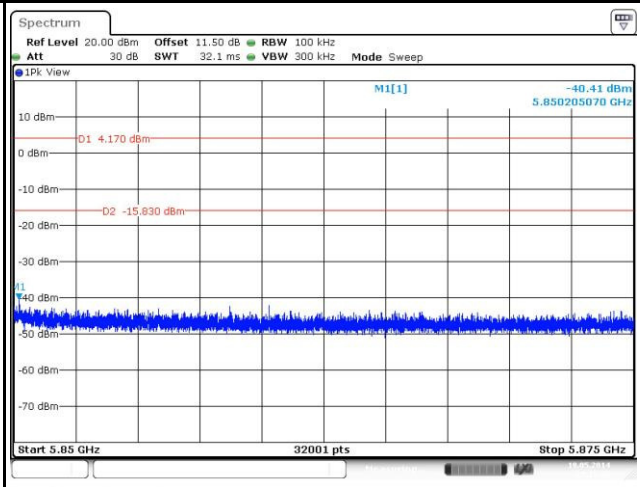
Reference Level	Tx 5785MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

Reference Level	Tx 5825MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

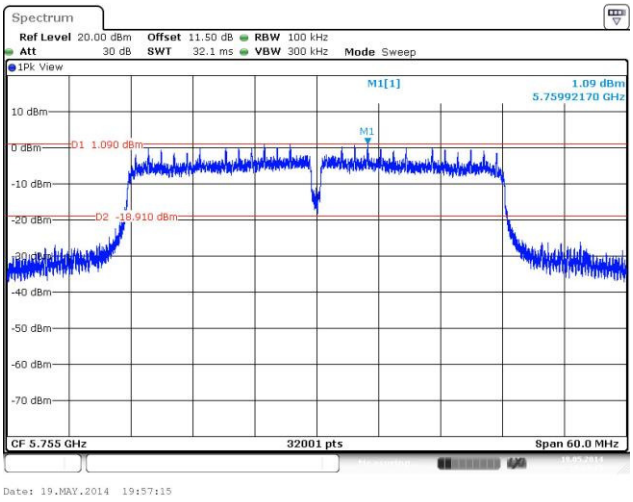
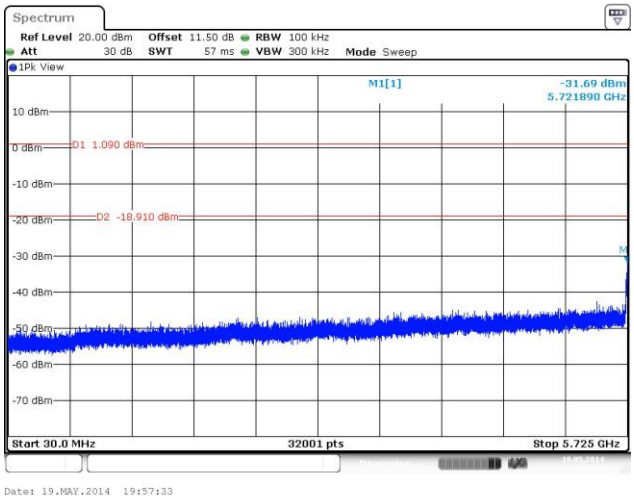
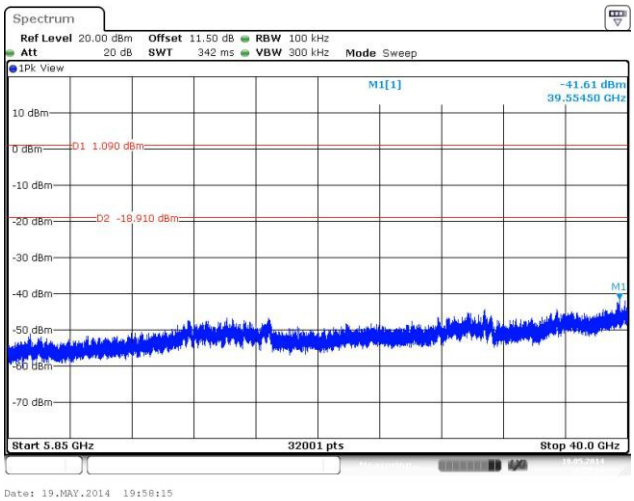
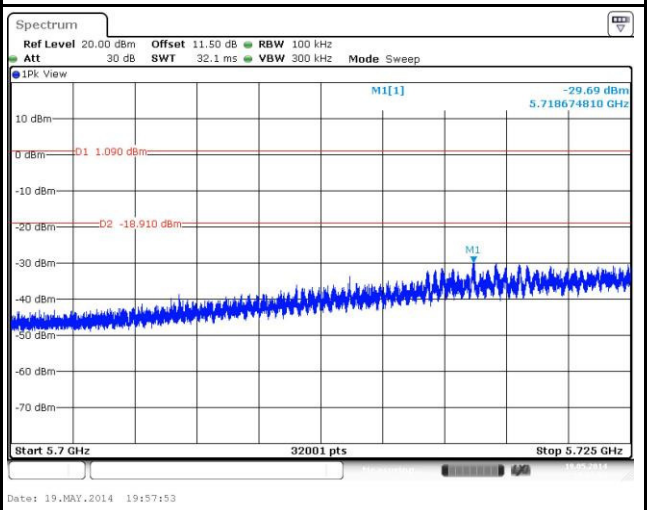
802.11n VHT20

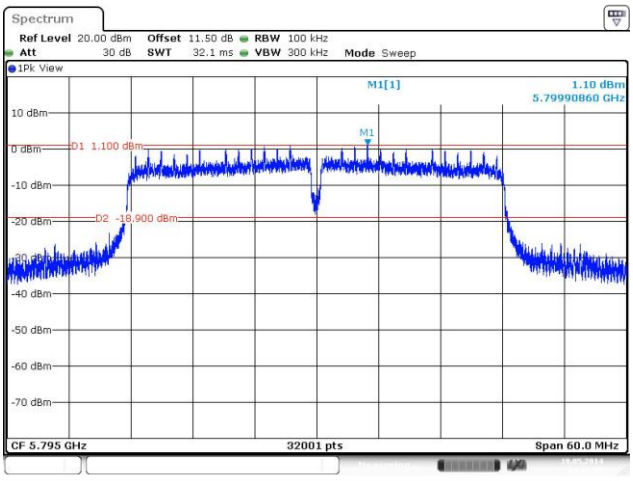
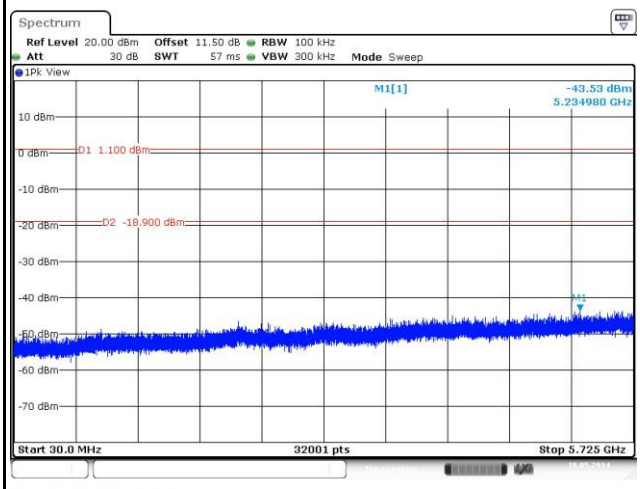
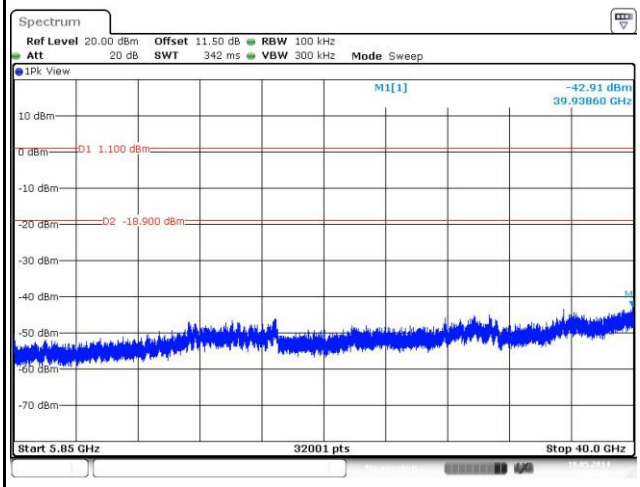
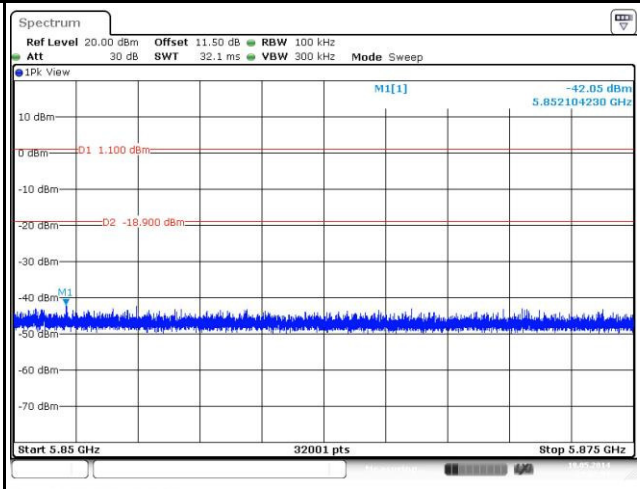
Reference Level	Tx 5745MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

Reference Level	Tx 5785MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

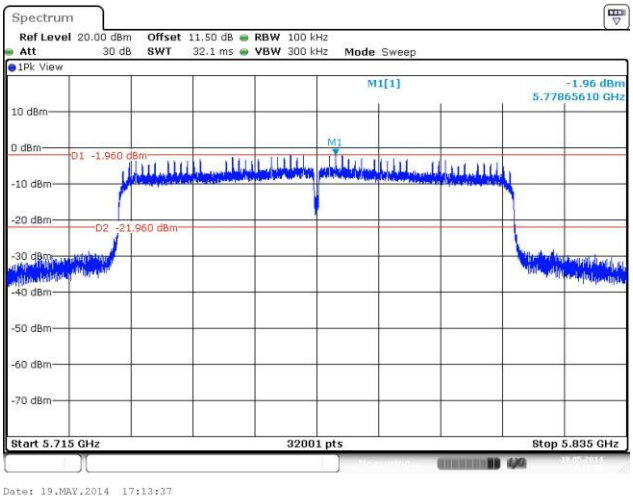
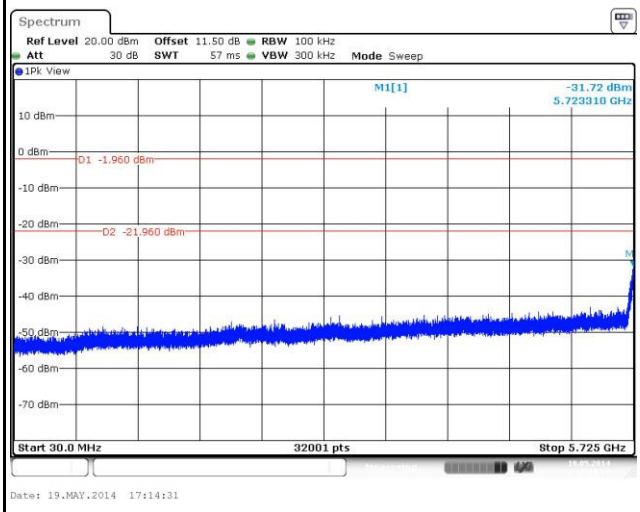
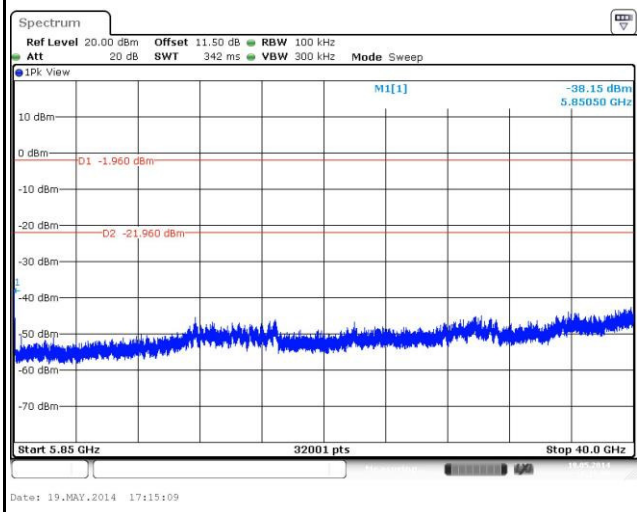
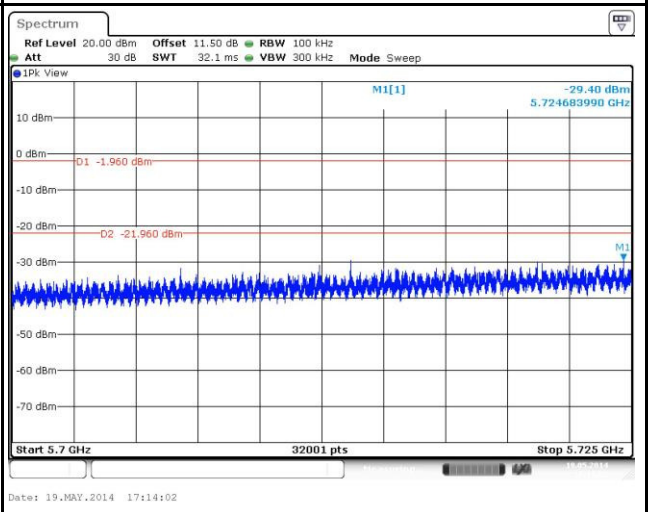
Reference Level	Tx 5825MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

802.11n VHT40

Reference Level	Tx 5755MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

Reference Level	Tx 5795MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

802.11n VHT80

Reference Level	Tx 5775MHz / 30MHz~40GHz (down 20dBc)
	
---	
---	

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

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Tel: 886-2-2601-1640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

Kwei Shan
Tel: 886-3-271-8666
No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666
Fax: 886-3-318-0155
Email: ICC_Service@icertifi.com.tw

==END==