



FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4:2009
TEST REPORT

For

AIO Panel

Model : DMS-SA1300-A1E ; DMS-SA13XXXXXXXXXXXXXX
(where "X" may be any alphanumeric character , "-" or blank)

Trade Name : CareFusion

Issued for

CareFusion Inc.

10020 Pacific Mesa Blvd., San Diego, California 92121, United States

Issued by

Compliance Certification Services Inc.
Hsinchu Lab.

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Issued Date: May 16, 2014



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	04/25/2014	Initial Issue	All Page 117	Gloria Chang
01	05/16/2014	Added Keypart List	P.6	Gloria Chang

**TABLE OF CONTENTS**

TITLE	PAGE NO.
1. TEST REPORT CERTIFICATION	4
2. EUT DESCRIPTION	5-6
3. DESCRIPTION OF TEST MODES	7-8
4. TEST METHODOLOGY	9
5. FACILITIES AND ACCREDITATION	9
5.1 FACILITIES	9
5.2 ACCREDITATIONS.....	9
5.3 MEASUREMENT UNCERTAINTY	10
6. SETUP OF EQUIPMENT UNDER TEST.....	11-13
7. FCC PART 15.247 REQUIREMENTS.....	14
7.1 6dB BANDWIDTH	14-26
7.2 MAXIMUM PEAK OUTPUT POWER	27-29
7.3 AVERAGE POWER	30-32
7.4 POWER SPECTRAL DENSITY	33-45
7.5 CONDUCTED SPURIOUS EMISSION	46-61
7.6 RADIATED EMISSION.....	62-105
7.7 CONDUCTED EMISSION	106-110
APPENDIX I MAXIMUM PERMISSIBLE EXPOSURE.....	111-112
APPENDIX II SETUP PHOTOS	113-117



1. TEST REPORT CERTIFICATION

Applicant : CareFusion Inc.
Address : 10020 Pacific Mesa Blvd., San Diego, California 92121,
United States
Equipment Under Test : AIO Panel
Model : DMS-SA1300-A1E ; DMS-SA13XXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Trade Name : CareFusion
Tested Date : March 25 ~ April 25, 2014

APPLICABLE STANDARD	
Standard	Test Result
FCC Part 15 Subpart C AND ANSI C63.4:2009	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sb. Lu
Sr. Engineer

Reviewed by:

Gundam Lin
Sr. Engineer



2. EUT DESCRIPTION

Product Name	AIO Panel
Model Number	DMS-SA1300-A1E ; DMS-SA13XXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Identify Number	T140416L05
Received Date	March 25, 2014
Frequency Range	IEEE 802.11b/g, 802.11gn HT20 : 2412MHz ~ 2462MHz IEEE 802.11gn HT40 : 2422MHz ~ 2452MHz Bluetooth 4.0 : 2402MHz ~ 2480MHz
Transmit Power	IEEE 802.11b : 22.83 dBm (0.1917 W) IEEE 802.11g : 25.78 dBm (0.3786 W) IEEE 802.11gn HT20 : 25.08 dBm (0.3219 W) IEEE 802.11gn HT40 : 21.61 dBm (0.1449 W) Bluetooth 4.0 : 4.53 dBm (0.0028W)
Channel Spacing	IEEE 802.11b/g, 802.11gn HT20/HT40 : 5MHz Bluetooth 4.0: 2MHz
Channel Number	IEEE 802.11b/g, 802.11gn HT20 : 11 Channels IEEE 802.11gn HT40 : 7 Channels Bluetooth 4.0 : 40 Channels
Transmit Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11gn HT20 : 72.2, 65, 58.5, 57.8, 52, 43.3, 39, 28.9, 26, 21.7, 19.5, 14.4, 13, 7.2, 6.5Mbps IEEE 802.11gn HT40 : 150, 135, 121.5, 120, 108, 90, 81, 60, 54, 45, 40.5, 30, 27, 15, 13.5Mbps Bluetooth 4.0 : Additional GFSK
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11gn HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK) Bluetooth 4.0 : Frequency Hopping Spread Spectrum
Antenna Type	PIFA Antenna x 1, Antenna 1 (Chain 1 / Main), Antenna Gain : 2.0dBi
Power Rating	12-24Vdc
Test Voltage	120Vac, 60Hz
I/O Port	Control Port x 1(For Docking)



The difference of the series model

Model Number	Difference
DMS-SA1300-A1E	1. For marketing purpose only. 2. where "X" may be any alphanumeric character , " - " or blank
DMS-SA13XXXXXXXXXXXXXX	

Remark :

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For more details, please refer to the User's manual of the EUT.
3. The model DMS-SA1300-A1E was considered the main model for testing.
- 4 This submittal(s) (test report) is intended for FCC ID: YWX-SA13AIO2 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

Keypart List :

Item	Description	Model	Manufacturer	Type
1	Mother Board	DMS-SA13	Advantech	
2	CPU	Atom D2550	INTEL	1.86GHz
3	Touch Panel	105-H-1508	AVCT	
		GFF-150C2	GETAC	
4	LCD Display	G150XGE	Innolux	1024X768
5	DRAM	DDR3 1066/1333/1666MHz 2GB, 4G	Transcend	
6	Wireless & BT Module	AW-NB087HLE	Azurewave	
7	HDD	WD160AAJS (160GB)	WD	SATA

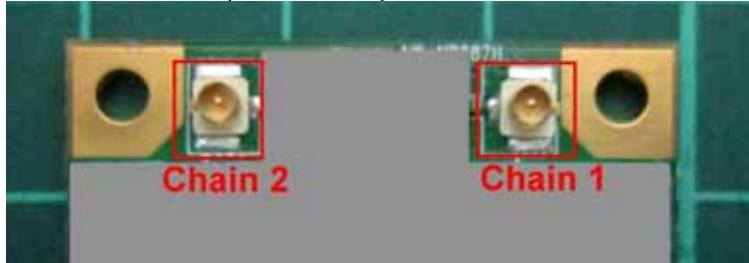


3. DESCRIPTION OF TEST MODES

The EUT is an 802.11n transceiver in AIO Panel form factor.

For IEEE 802.11b/g/, 802.11gn HT20/HT40 mode (1TX / 2RX) :

Chain 1 / Main (Antenna 1) transmit/receive.



Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test Mode
1	Normal Operating / Elevation of 75° / DMS-SA1300-A1E (AVCT / 105-H-1508)
2	Normal Operating / Elevation of 115° / DMS-SA1300-A1E (AVCT / 105-H-1508)
3	Normal Operating / Elevation of 75° / DMS-SA1300-A1E (GETAC / GFF-150C2)
4	Normal Operating / Elevation of 115° / DMS-SA1300-A1E (GETAC / GFF-150C2)

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode			
Emission	Radiated Emission	Below 1 GHz	
		Normal Operating / Elevation of 75° / DMS-SA1300-A1E (AVCT / 105-H-1508)	
		Normal Operating / Elevation of 115° / DMS-SA1300-A1E (AVCT / 105-H-1508)	
		Normal Operating / Elevation of 75° / DMS-SA1300-A1E (GETAC / GFF-150C2)	
		Normal Operating / Elevation of 115° / DMS-SA1300-A1E (GETAC / GFF-150C2)	
	Above 1GHz	Normal Operating / Elevation of 75° / DMS-SA1300-A1E (AVCT / 105-H-1508)	
	Normal Operating / Elevation of 115° / DMS-SA1300-A1E (AVCT / 105-H-1508)		
	Conducted Emission	Normal Operating / Elevation of 115° / DMS-SA1300-A1E (AVCT / 105-H-1508)	

Remark : Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.



Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11b, 802.11g, 802.11gn HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode : 1Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11gn HT20 mode : 6.5Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11gn HT40 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11gn HT40 mode : 13.5Mbps data rate (worst case) were chosen for full testing.

Bluetooth 4.0 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2402
Middle	2440
High	2480



4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
NO. 989-1 Wen Shan Rd., Shang Shan Village,
Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.4:2009 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>



5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 30 to 1000 MHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 1 to 18GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 26 to 40 GHz	+/- 3.82
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	HP	ProBook 4421s	CNF03242PJ
2	Notebook PC	HP	ProBook 4421s	CNF03242PM
3	Notebook PC	IBM (Lenovo)	ThinkPad T61 7663-AS6	L3F3864
4	Notebook PC	DELL	Latitude D610 PP01L	CN-0XD762-48643-637-1743
5	Draft 11n Wireless 4-Port Gigabit Broadband Router	SMC	SMCWGBR14S-N	U193600496
6	Keyboard	HP	KU-0316	35563-AB1
7	Mouse	HP	M-UAE96	265986-011
8	Headphones	i-Acon	CW-010M.V	---
9	Docking	---	---	---
10	USB Load × 6	---	---	---

No.	Product	Manufacturer	Model No.	Power Input	Power Output
1	Power Adapter	SINPRO	MPU63-106	100-240Vac, 47-63Hz, 1.62-072A	15Vdc, 4.2A

No.	Signal cable description
1	Non-shielded RJ-45 cable, 10m × 2
2	Shielded USB cable, 2m × 6



SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

RF Mode:

WiFi :

1. Setup all Computers like the setup diagram.
2. Run wifi RF Tool.
3. Select the following settings.
4. TX Mode :

- ⇒ **Tx Data Rate:** 1Mbps Bandwidth 20 (IEEE 802.11b mode)
6Mbps Bandwidth 20 (IEEE 802.11g mode)
6.5Mbps Bandwidth 20 (IEEE 802.11gn HT20 mode)
13.5Mbps Bandwidth 40 (IEEE 802.11gn HT40 mode)

- ⇒ **Power control**

- IEEE 802.11b Channel Low (2412MHz) TX Power 39
- IEEE 802.11b Channel Mid (2437MHz) TX Power 39
- IEEE 802.11b Channel High (2462MHz) TX Power 36
- IEEE 802.11g Channel Low (2412MHz) TX Power 37
- IEEE 802.11g Channel Mid (2437MHz) TX Power 37
- IEEE 802.11g Channel High (2462MHz) TX Power 26
- IEEE 802.11gn HT20 Channel Low (2412MHz) TX Power 34
- IEEE 802.11gn HT20 Channel Mid (2437MHz) TX Power 37
- IEEE 802.11gn HT20 Channel High (2462MHz) TX Power 26
- IEEE 802.11gn HT40 Channel Low (2422MHz) TX Power 25
- IEEE 802.11gn HT40 Channel Mid (2437MHz) TX Power 28
- IEEE 802.11gn HT40 Channel High (2452MHz) TX Power 22

5. All of the functions are under run.
6. Start test.



Bluetooth 4.0 :

1. EUT & peripherals setup diagram is shown in appendix setup photos.

2. Run BT RF Tool

3. Select the following settings.

4. TX mode

TX mode

LO Freq: 2402, 2440, 2480

Power: Low/Middle=10, High=-4

packet: 37

Continue TX

5. All of the functions are under run.

6. Start test.

Normal Mode:

1. EUT & peripherals setup diagram is shown in appendix setup photos.

2. Power on all equipments.

3. EUT link to wireless router.

4. Notebook PC ping EUT IP through LAN connected by RJ-45 cable.

5. Notebook PC ping EUT IP through LAN connected by RJ-45 cable.

6. Notebook PC link EUT through BT.

7. Notebook PC link wireless router ping EUT IP through wireless LAN.

8. EUT and laptop connection transfer rate appears as 1Gbps.

9. USB port link keyboard mouse and USB dongle × 6.

10. All of the functions are under run.

11. EUT Run 'BurnIN'.

12. Start test.



7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

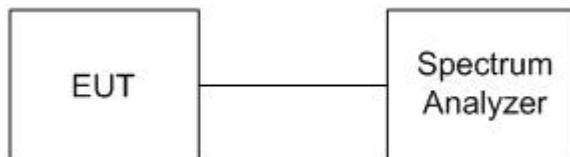
§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

1. The transmitter output was connected to a spectrum analyzer.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	12.050	500	PASS
Middle	2437	12.060	500	PASS
High	2462	12.065	500	PASS

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	16.400	500	PASS
Middle	2437	16.380	500	PASS
High	2462	16.390	500	PASS

IEEE 802.11gn HT20 Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	17.560	500	PASS
Middle	2437	17.350	500	PASS
High	2462	17.330	500	PASS

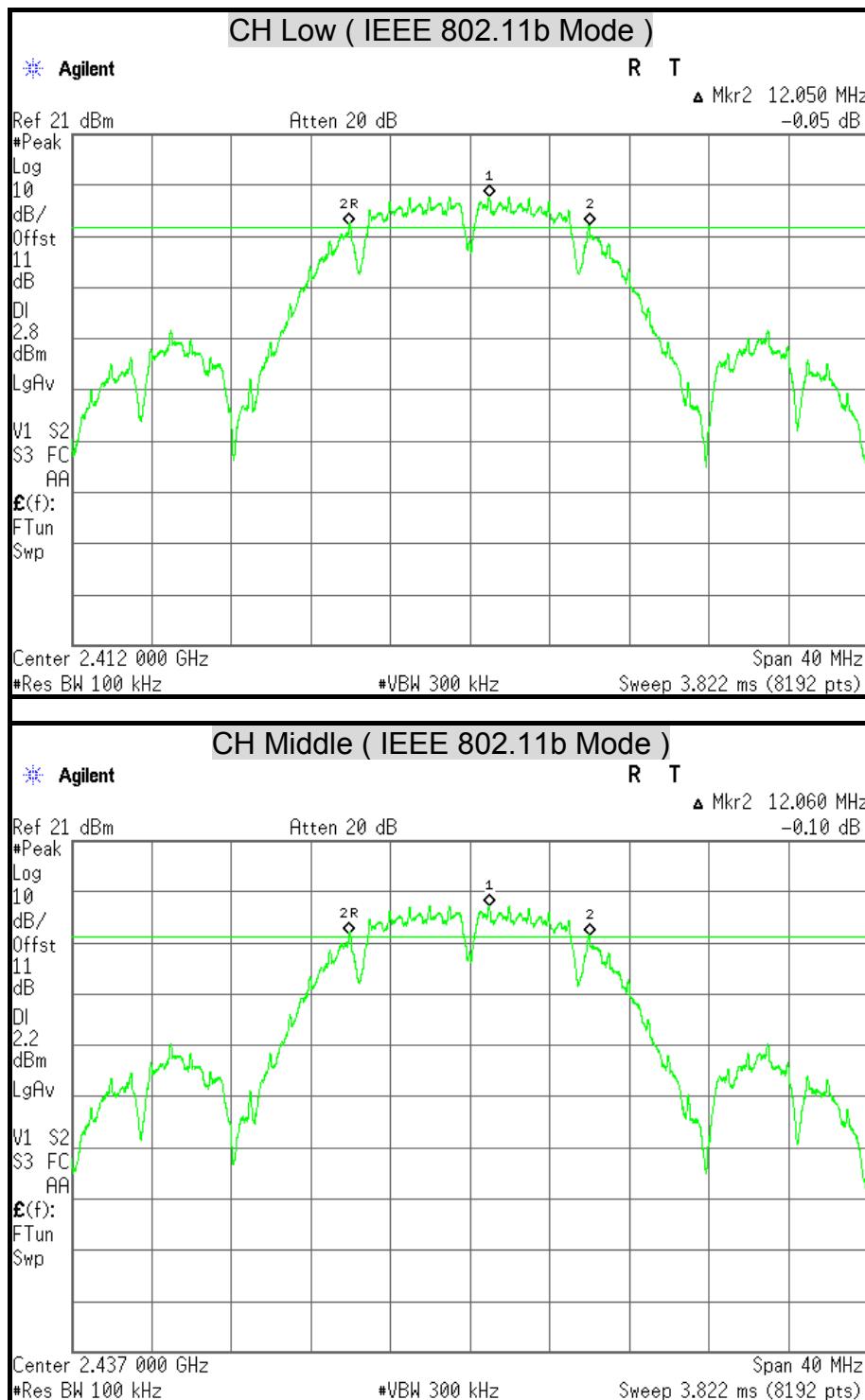
IEEE 802.11gn HT40 Mode

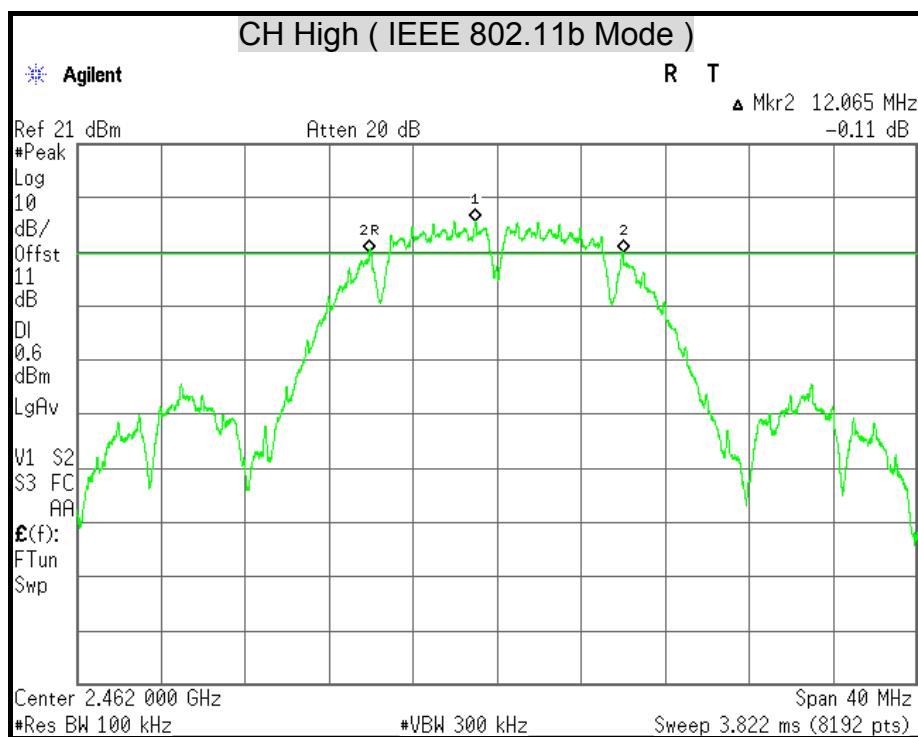
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2422	36.340	500	PASS
Middle	2437	36.330	500	PASS
High	2452	36.340	500	PASS

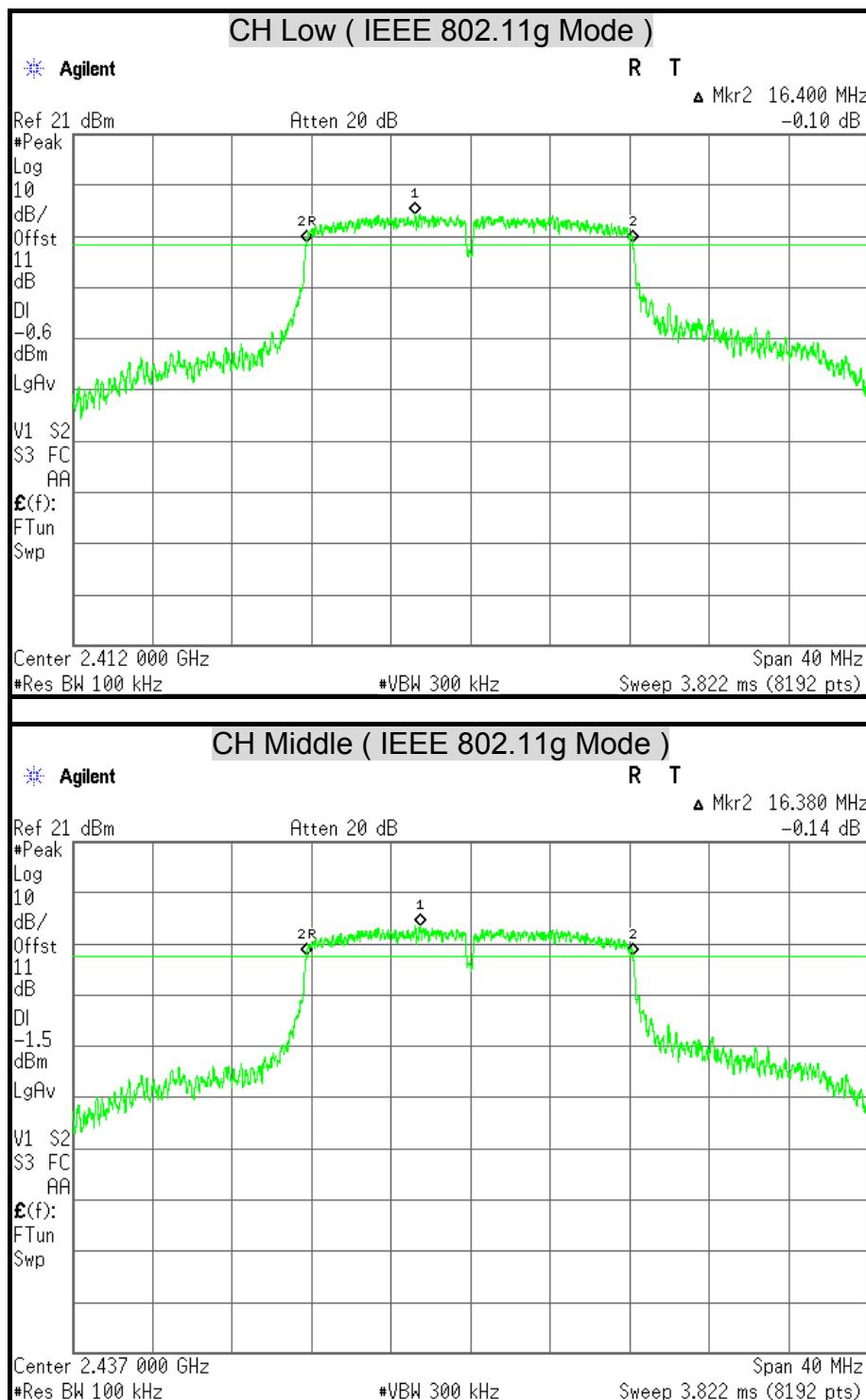


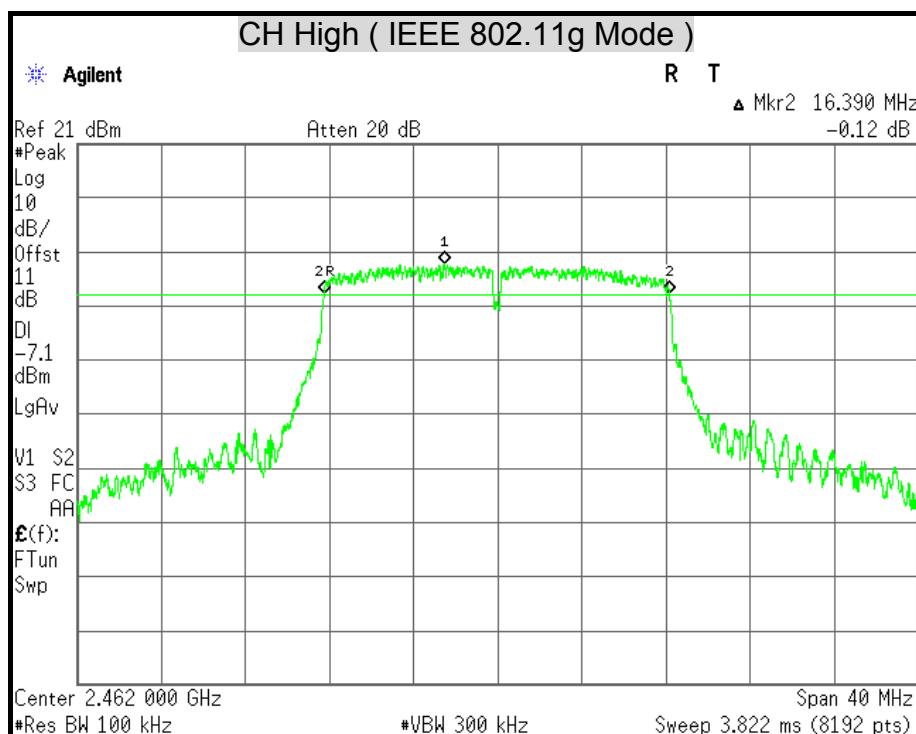
Bluetooth 4.0 Mode

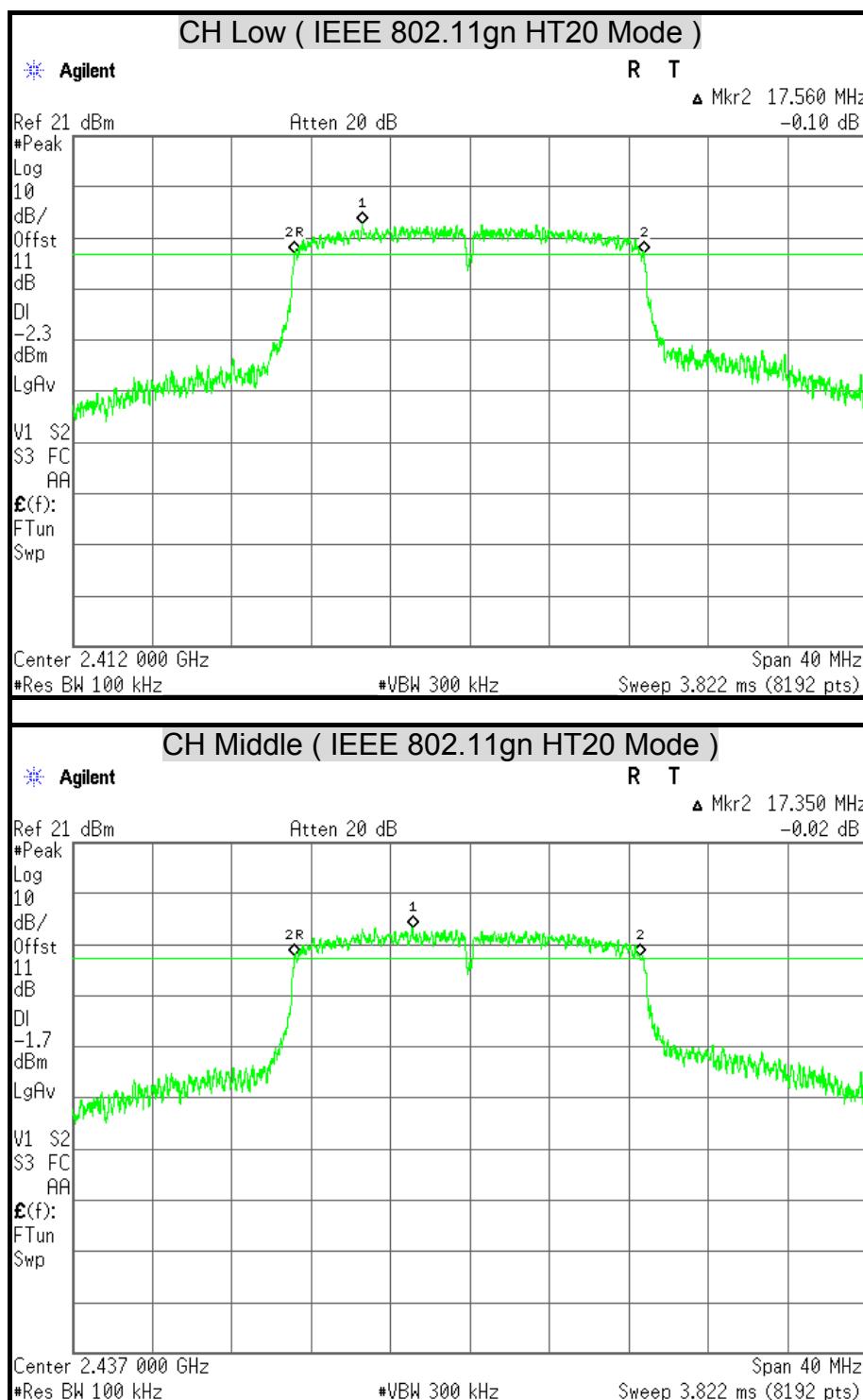
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	668.5	500	PASS
Middle	2440	668.5	500	PASS
High	2480	678.7	500	PASS

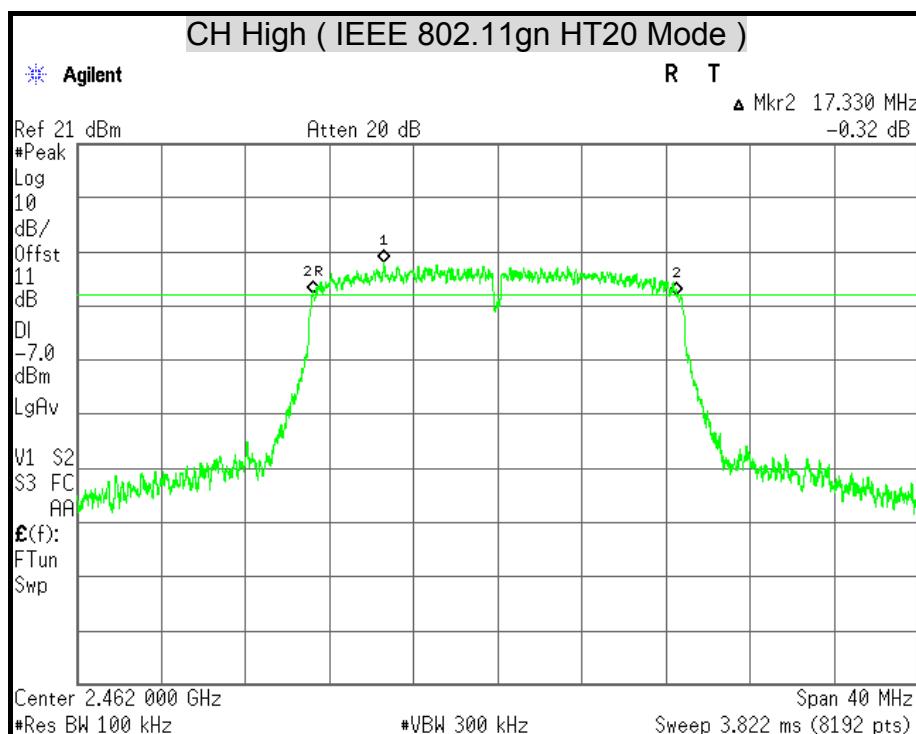
6dB BANDWIDTH

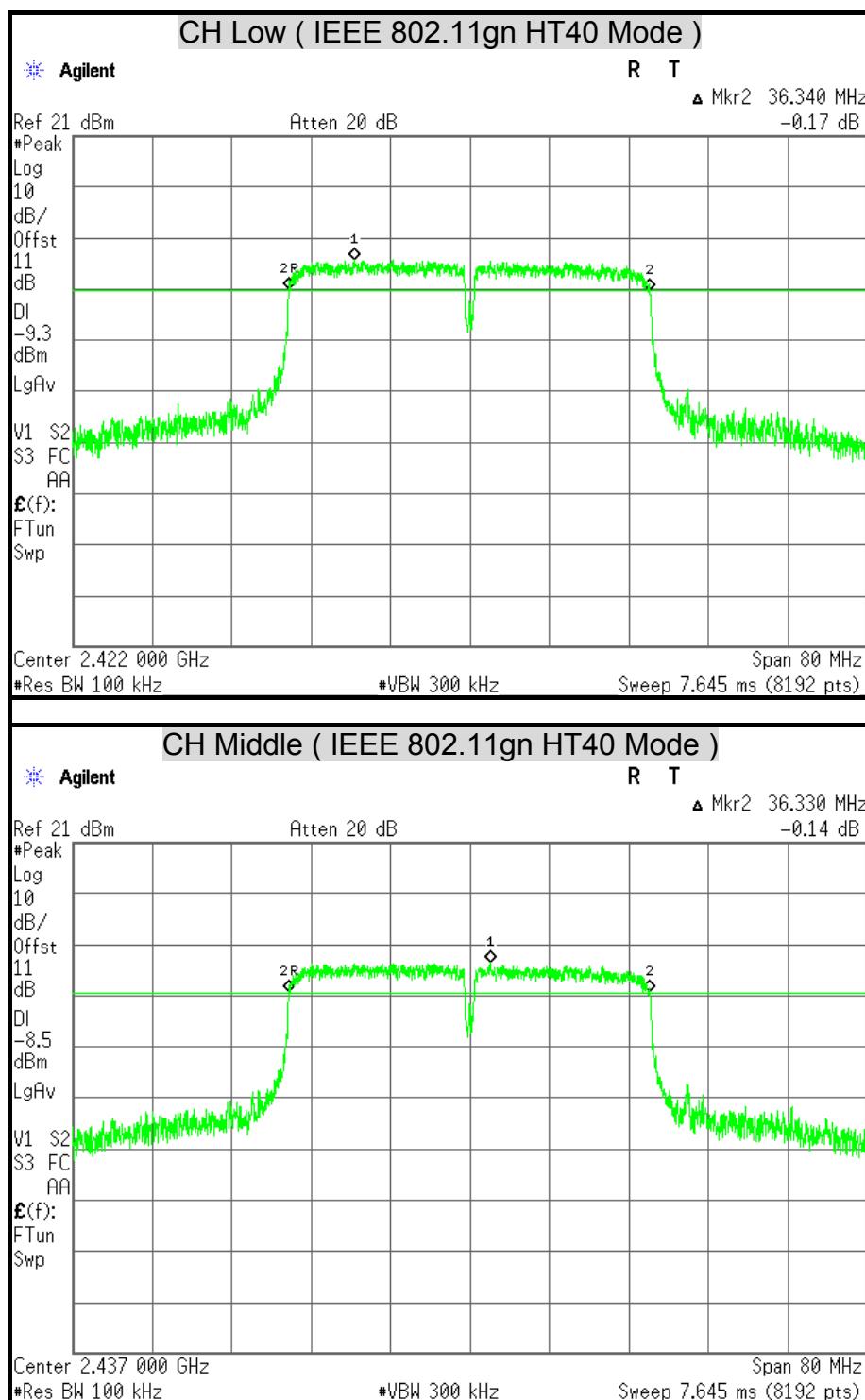


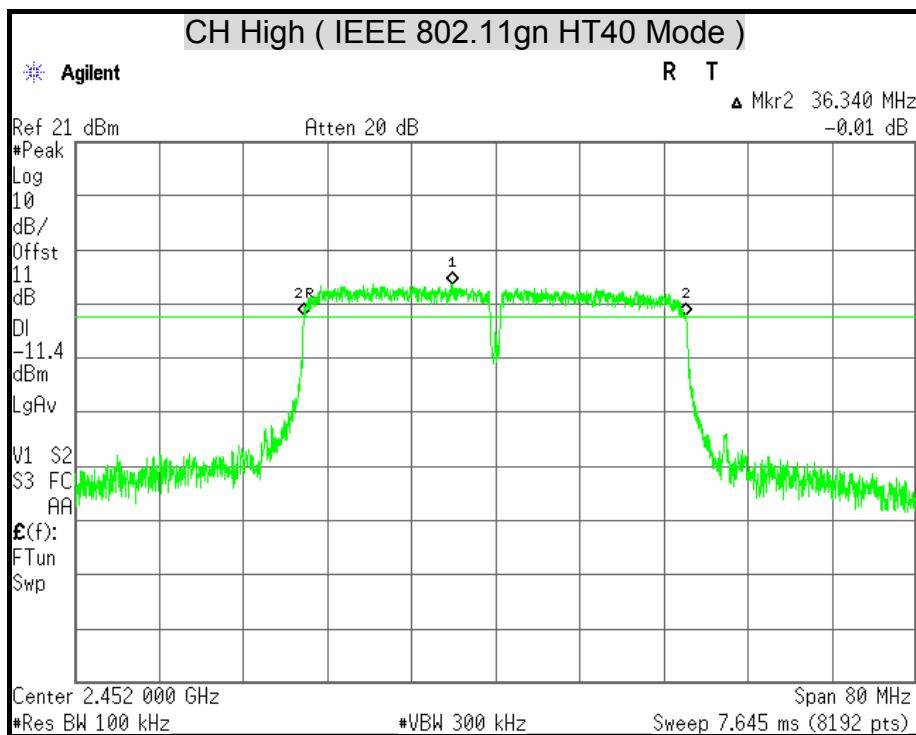


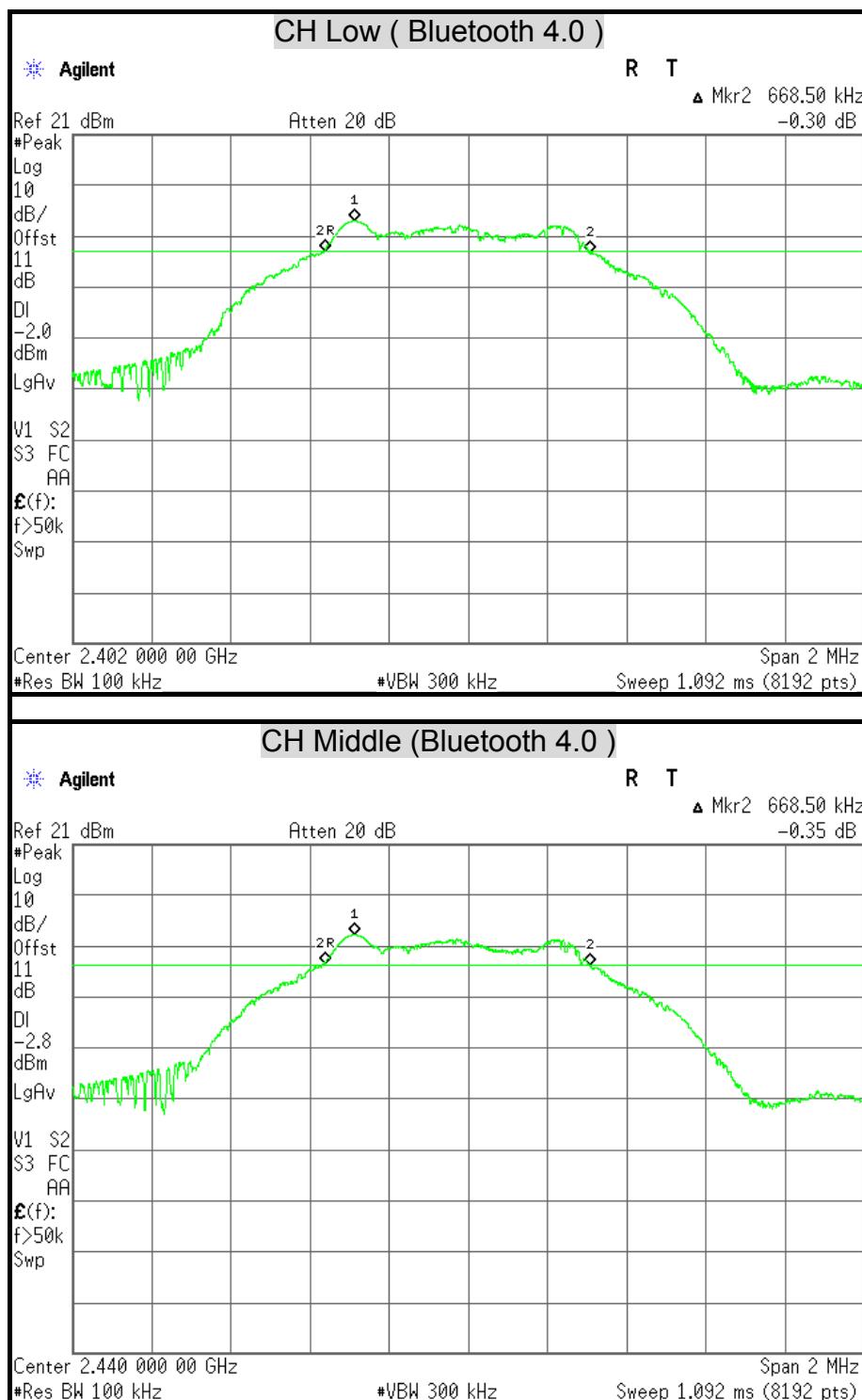


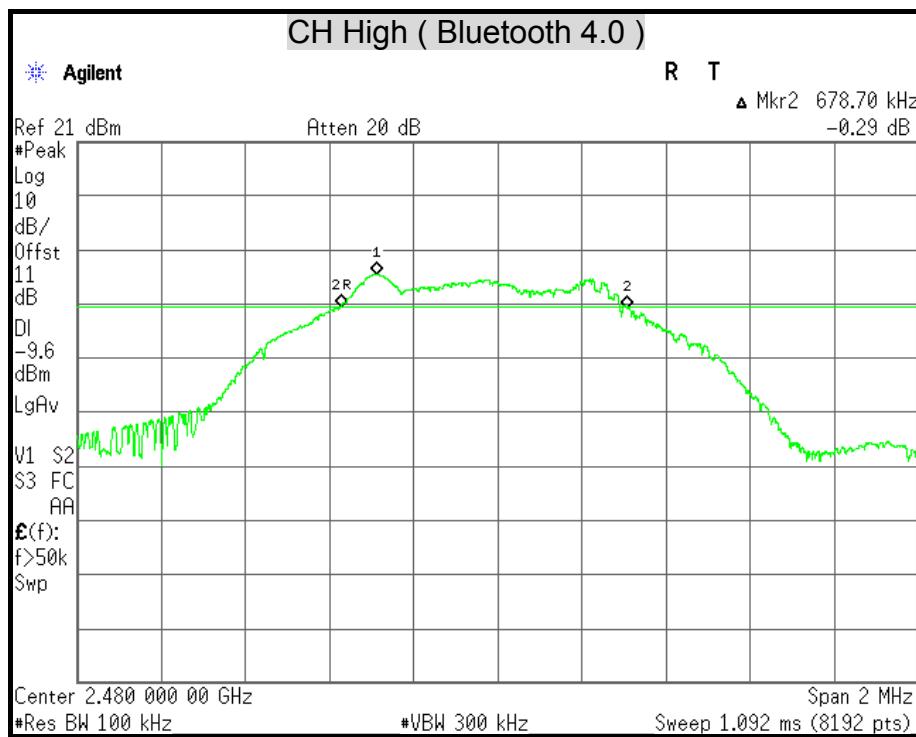














7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	Anritsu	ML2495A	1149001	12/06/2014
Power Sensor	Anritsu	MA2411B	1126148	12/06/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the peak power detection.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Peak Power		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	22.83	0.1917	30	1	PASS
Middle	2437	22.02	0.1594	30	1	PASS
High	2462	20.08	0.1019	30	1	PASS

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Peak Power		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	25.78	0.3786	30	1	PASS
Middle	2437	25.12	0.3247	30	1	PASS
High	2462	19.66	0.0925	30	1	PASS

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

**IEEE 802.11gn HT20 Mode**

Channel	Channel Frequency (MHz)	Peak Power (dBm)		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	24.71	0.2959	30	1	PASS
Middle	2437	25.08	0.3219	30	1	PASS
High	2462	19.61	0.0915	30	1	PASS

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	Peak Power (dBm)		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2422	20.87	0.1221	30	1	PASS
Middle	2437	21.61	0.1449	30	1	PASS
High	2452	18.54	0.0714	30	1	PASS

Remark:

1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

Bluetooth 4.0 Mode

Channel	Channel Frequency (MHz)	Peak Power		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2402	4.53	0.0028	30	1	PASS
Middle	2440	3.56	0.0023	30	1	PASS
High	2480	-2.86	0.0005	30	1	PASS

Remark: The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.



7.3 AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	ANRITSU	ML2495A	1149001	12/06/2014
Power Sensor	ANRITSU	MA2411B	1126148	12/06/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the average power detection.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	19.74
Middle	2437	18.95
High	2462	17.00

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	18.65
Middle	2437	17.94
High	2462	12.50

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.



IEEE 802.11gn HT20 Mode

Channel	Channel Frequency (MHz)	Average Power Total (dBm)
Low	2412	17.33
Middle	2437	17.68
High	2462	12.23

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	Average Power Total (dBm)
Low	2422	13.76
Middle	2437	14.51
High	2452	11.41

Remark:

1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

Bluetooth 4.0 Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2402	4.14
Middle	2440	3.27
High	2480	-3.64

Remark: The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.



7.4 POWER SPECTRAL DENSITY

LIMITS

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set analyzer center frequency to DTS channel center frequency.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
5. Set the VBW $\geq 3 \times \text{RBW}$.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level within the RBW.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-9.49	8	PASS
Middle	2437	-10.28	8	PASS
High	2462	-12.29	8	PASS

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-8.74	8	PASS
Middle	2437	-10.13	8	PASS
High	2462	-15.80	8	PASS

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

**IEEE 802.11gn HT20 Mode**

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-10.54	8	PASS
Middle	2437	-9.03	8	PASS
High	2462	-15.71	8	PASS

Remark:

1. At final test to get the worst-case emission at 6.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2422	-16.84	8	PASS
Middle	2437	-15.14	8	PASS
High	2452	-18.38	8	PASS

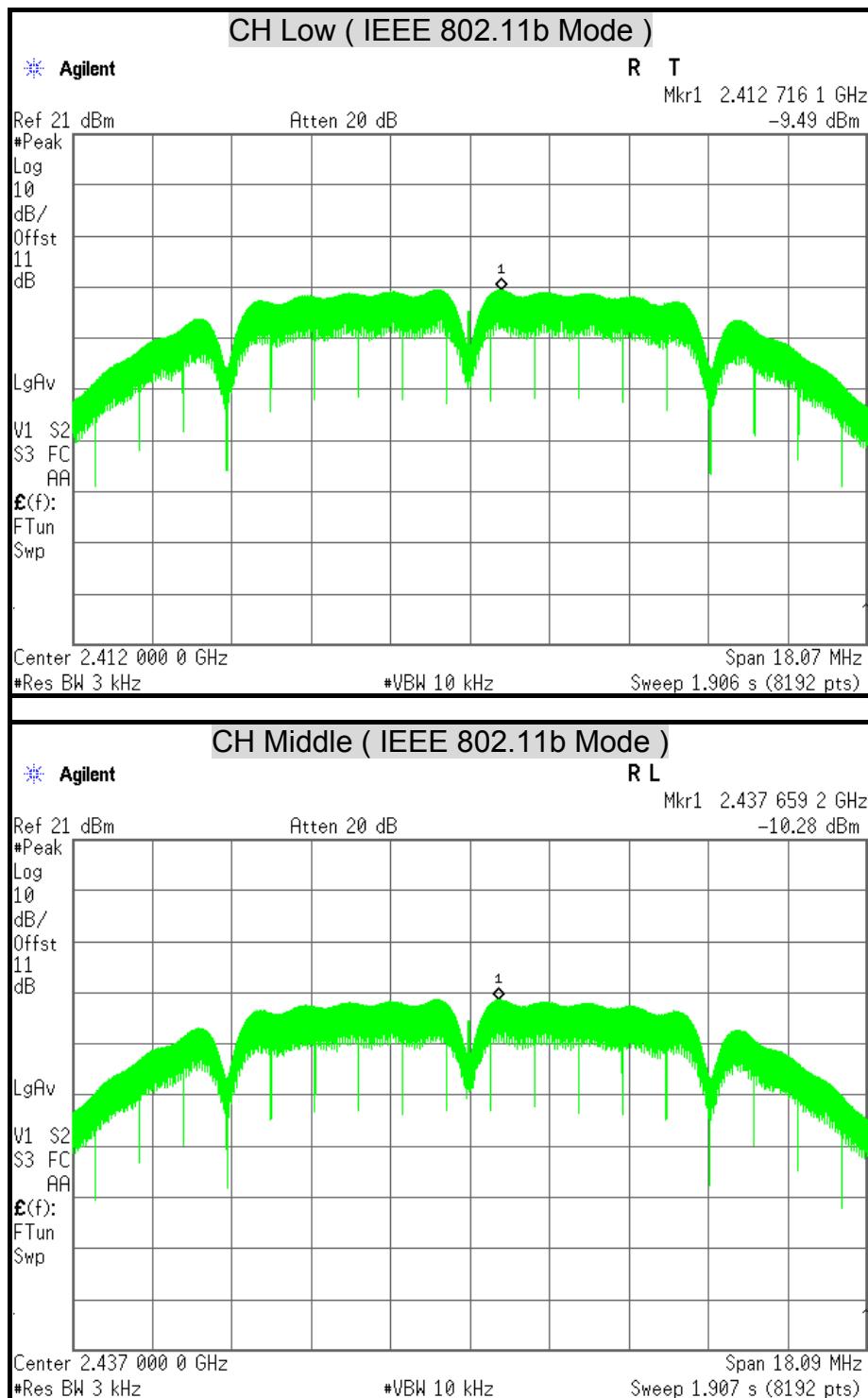
Remark:

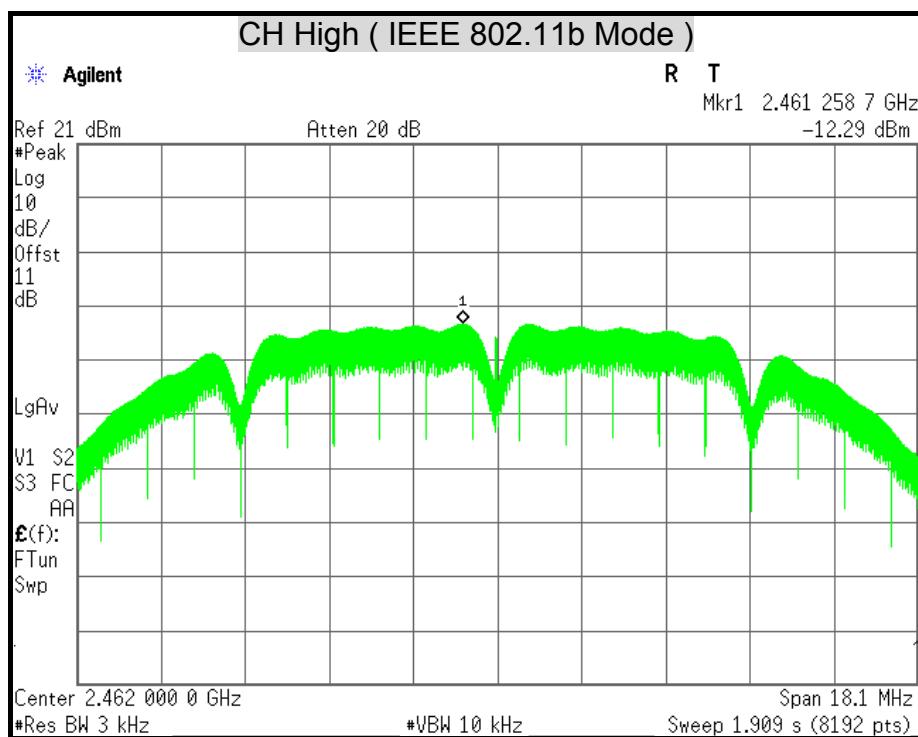
1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

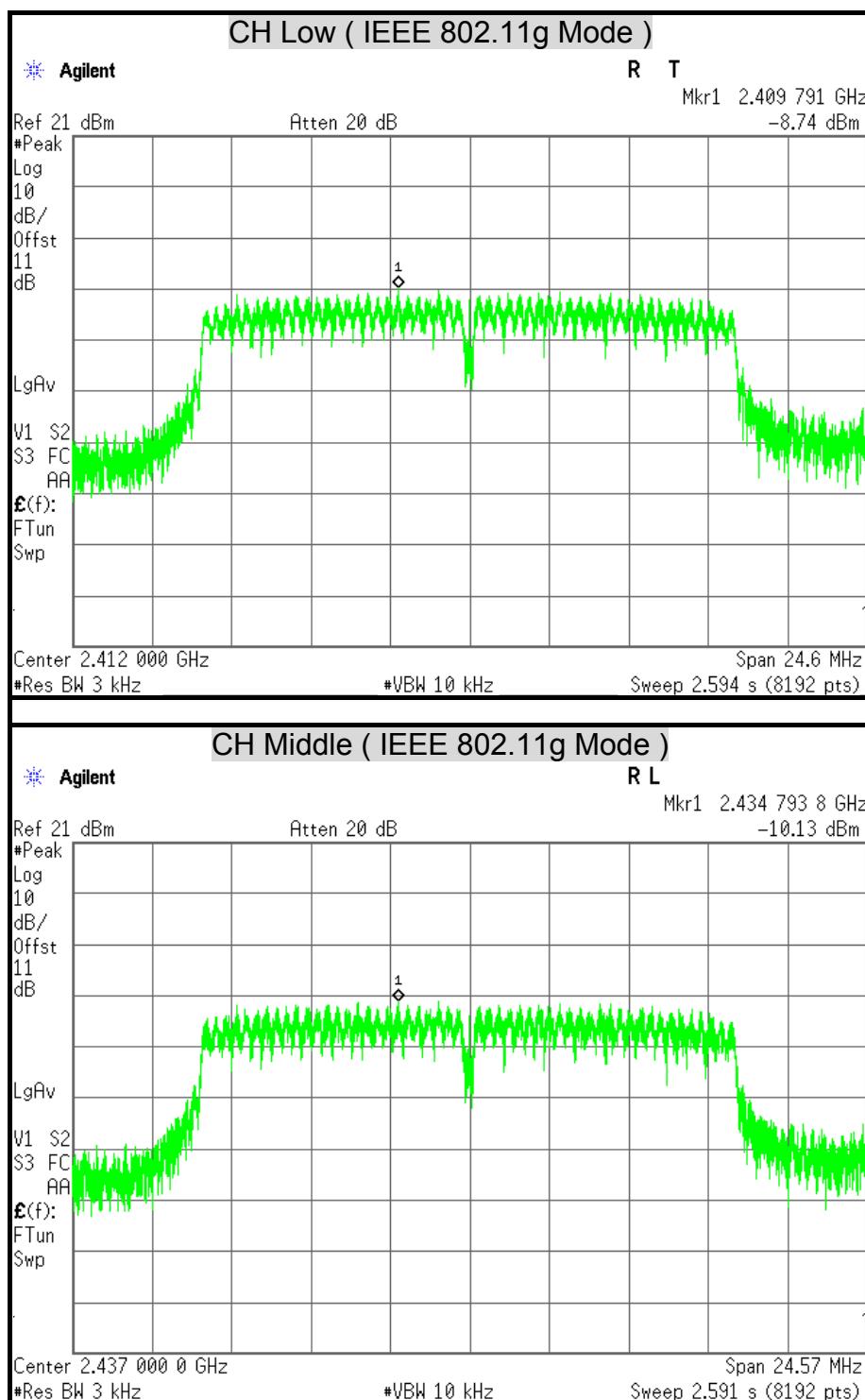
Bluetooth 4.0 Mode

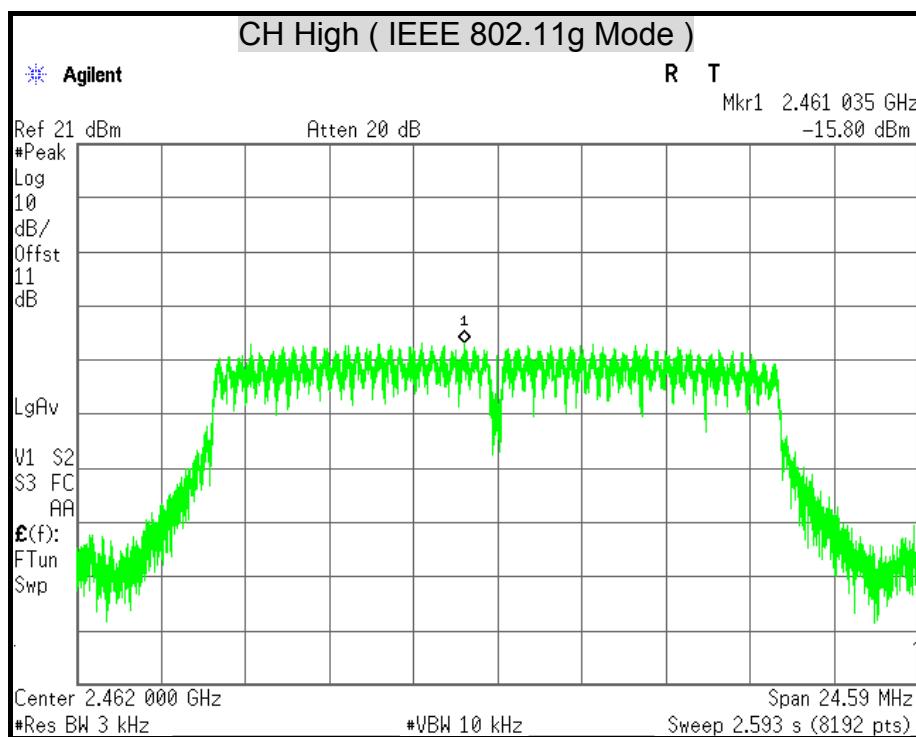
Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2402	-10.67	8	PASS
Middle	2440	-11.39	8	PASS
High	2480	-18.15	8	PASS

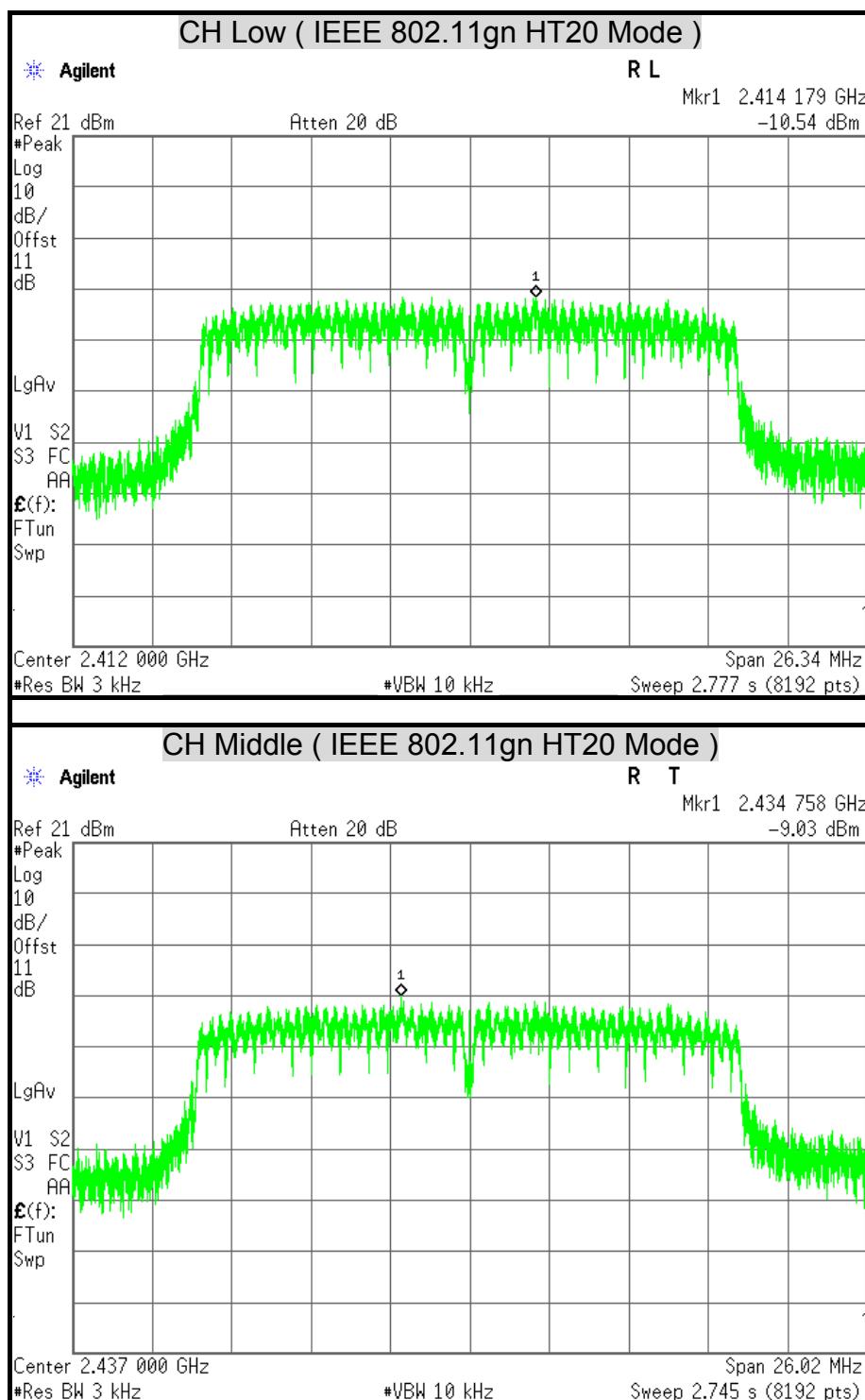
Remark: The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

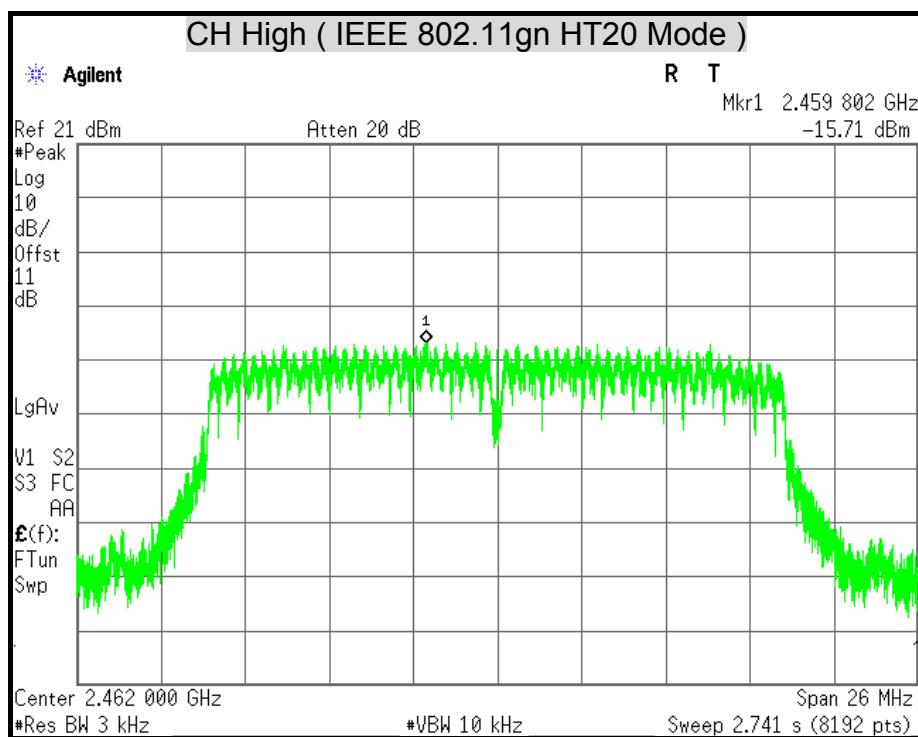
POWER SPECTRAL DENSITY

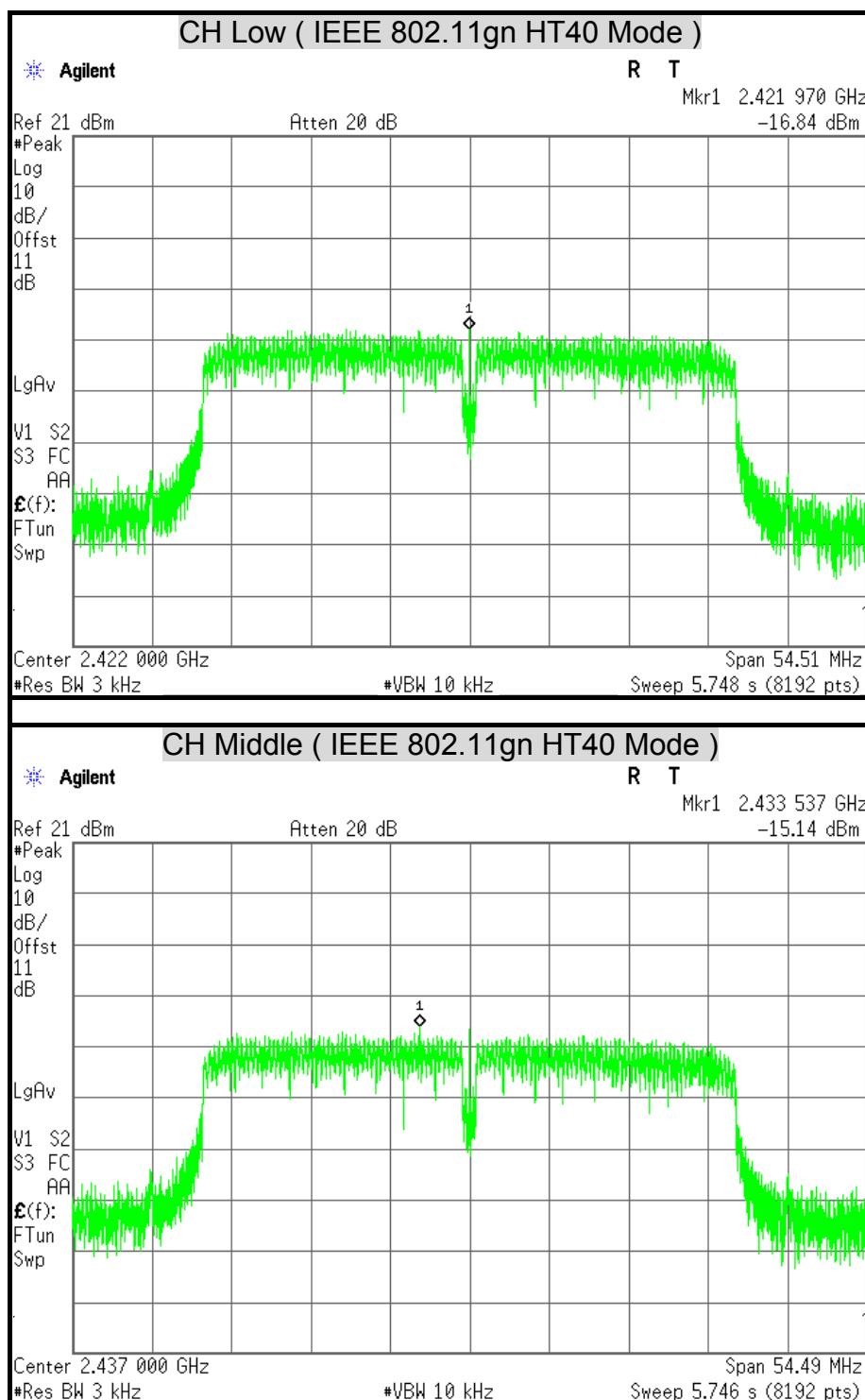


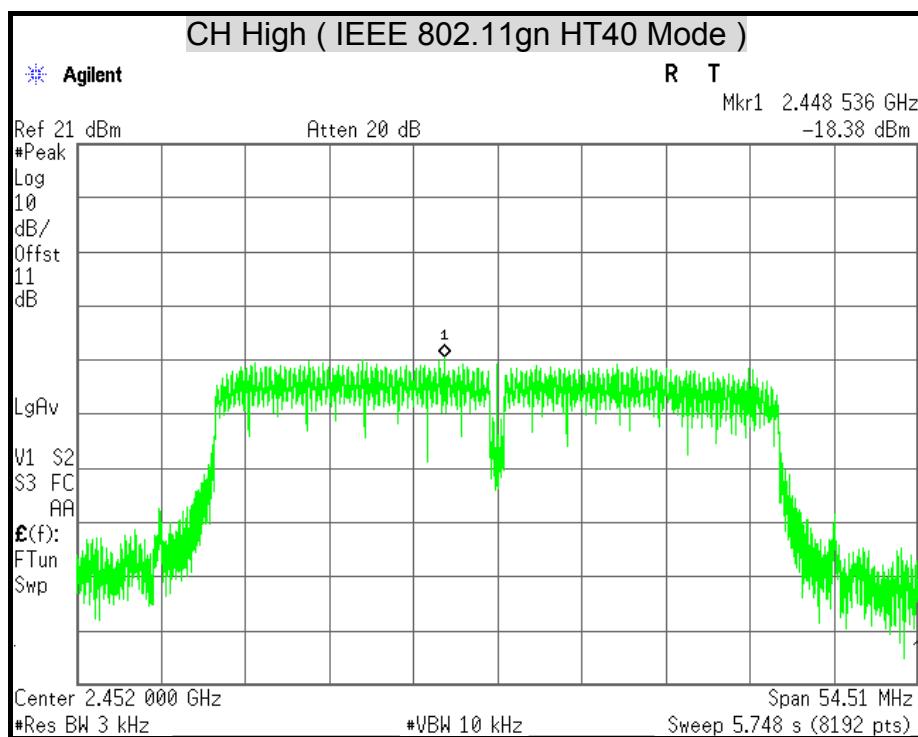


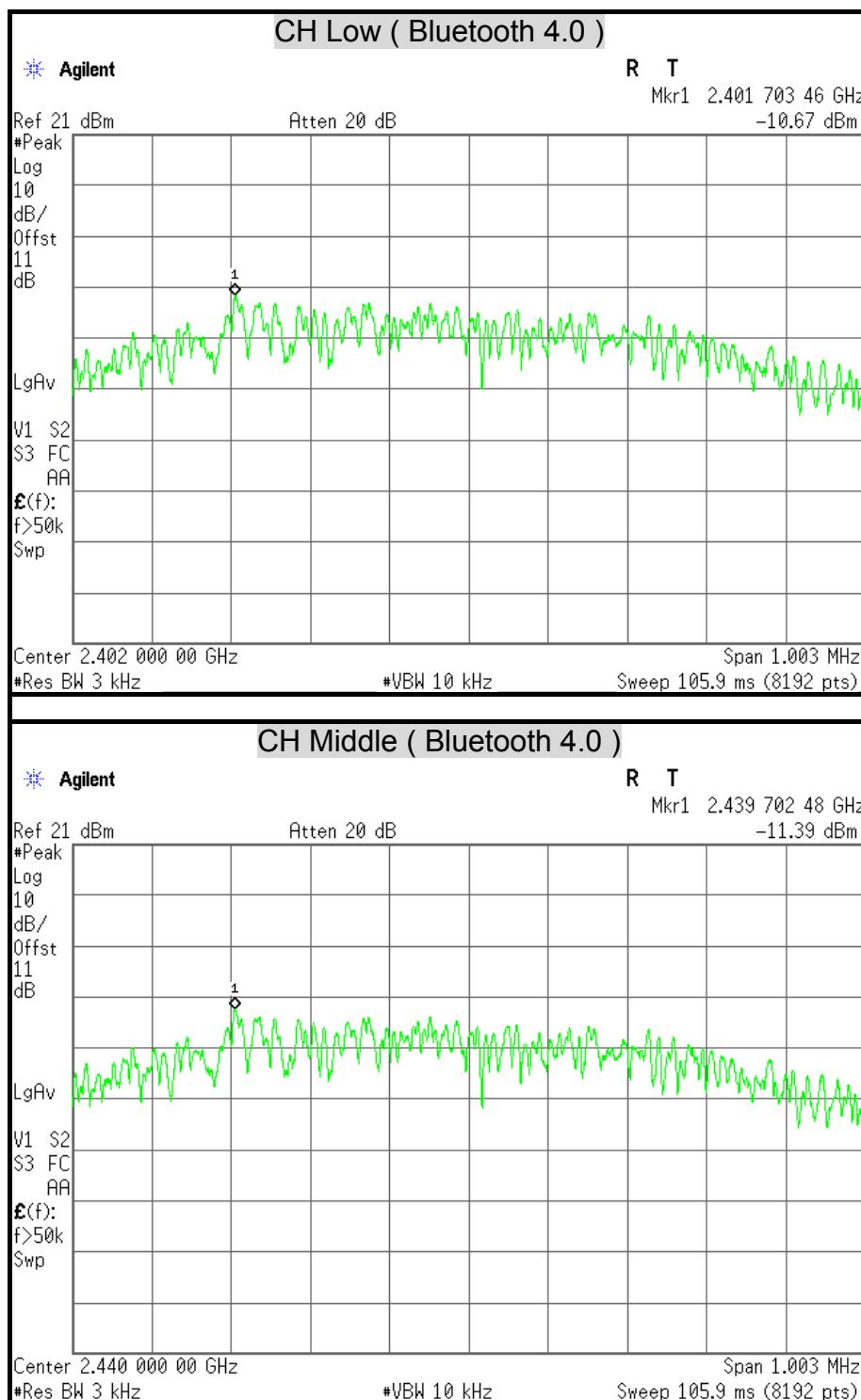


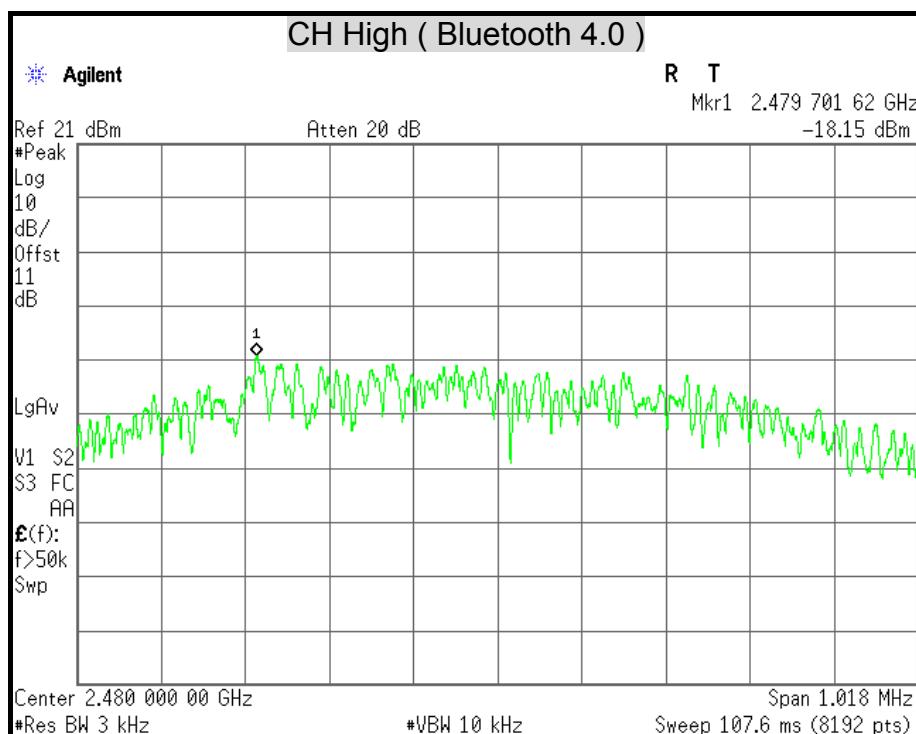














7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

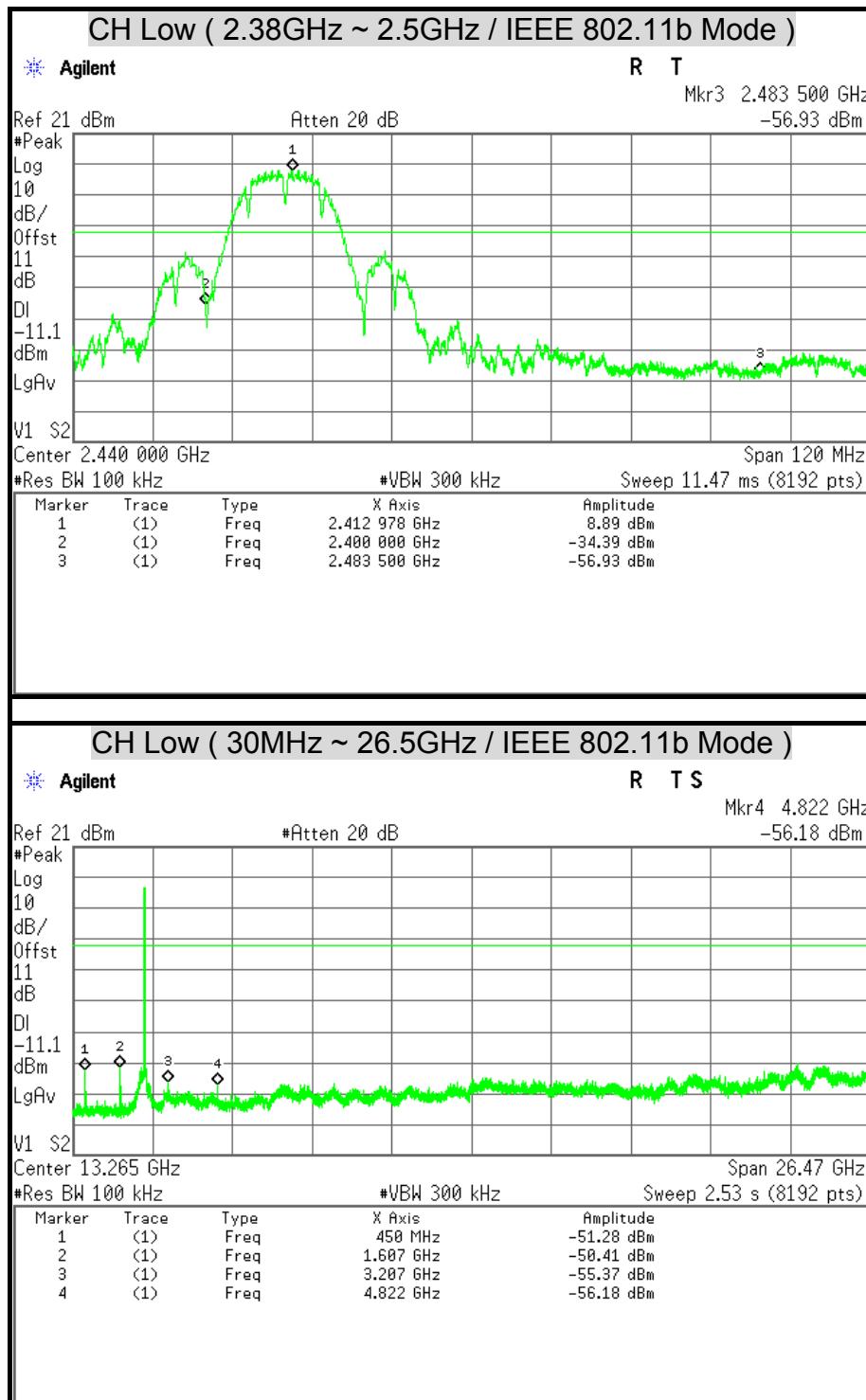
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

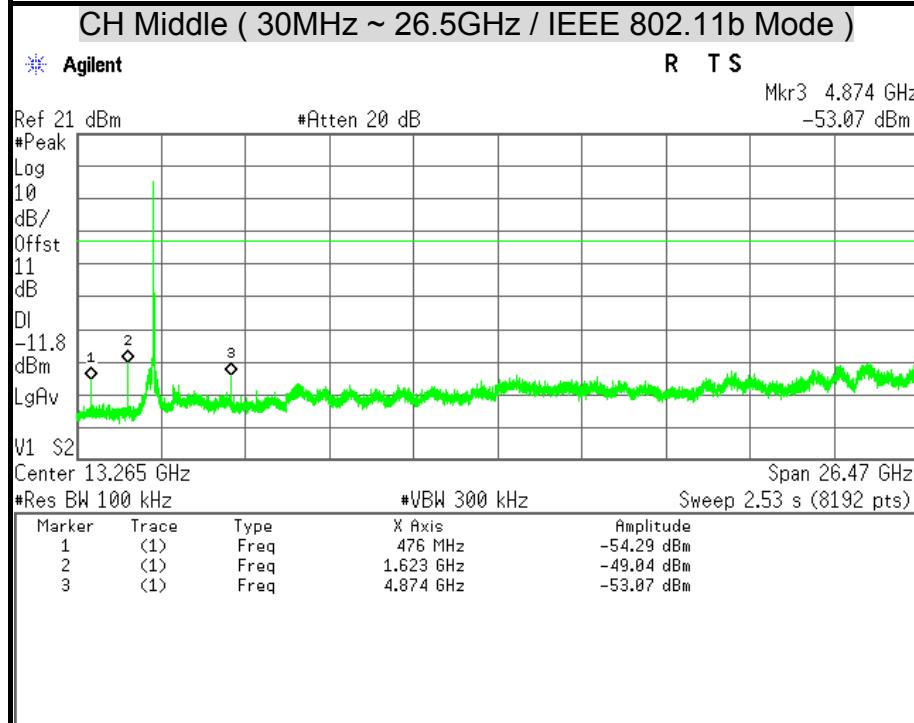
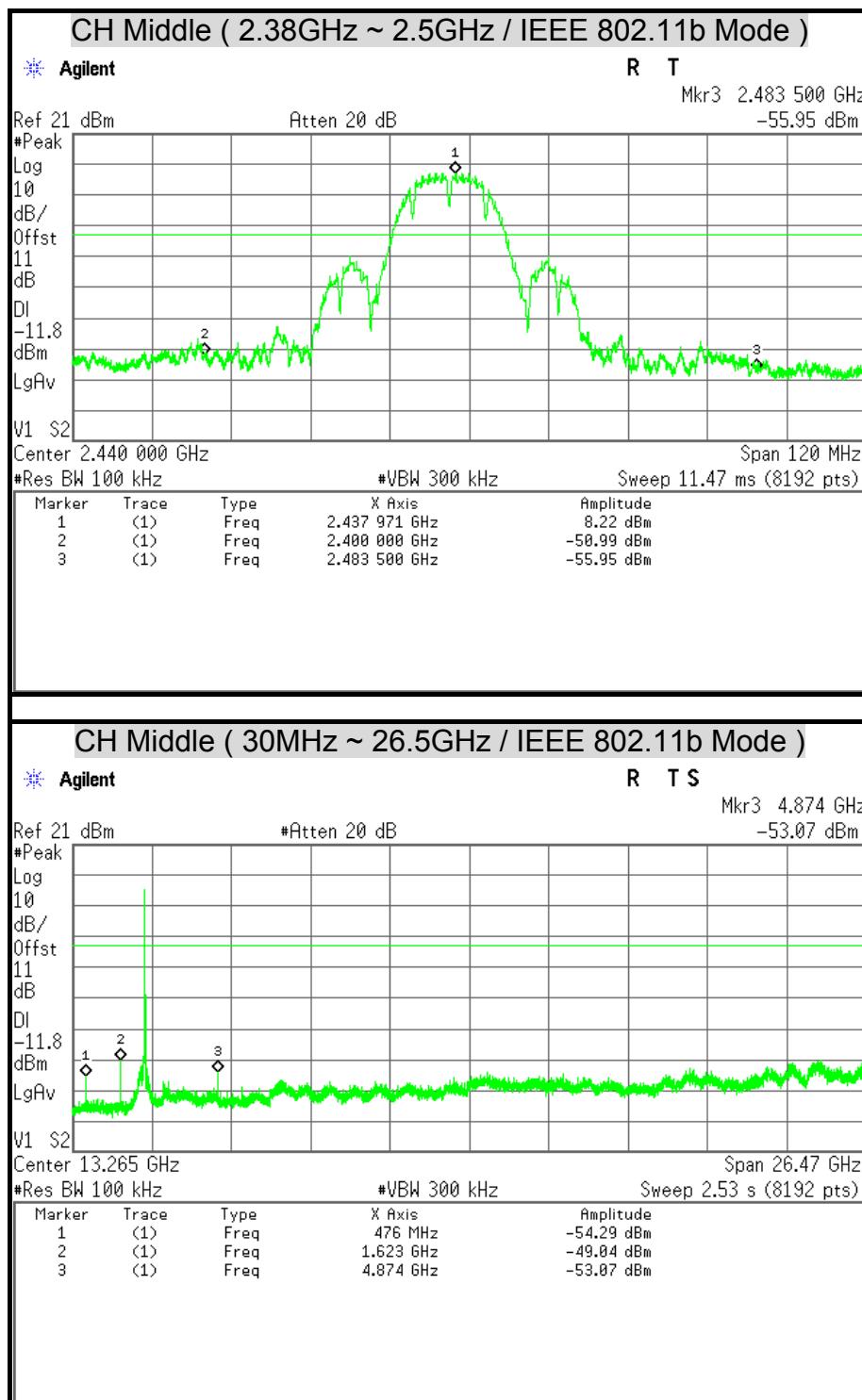
The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

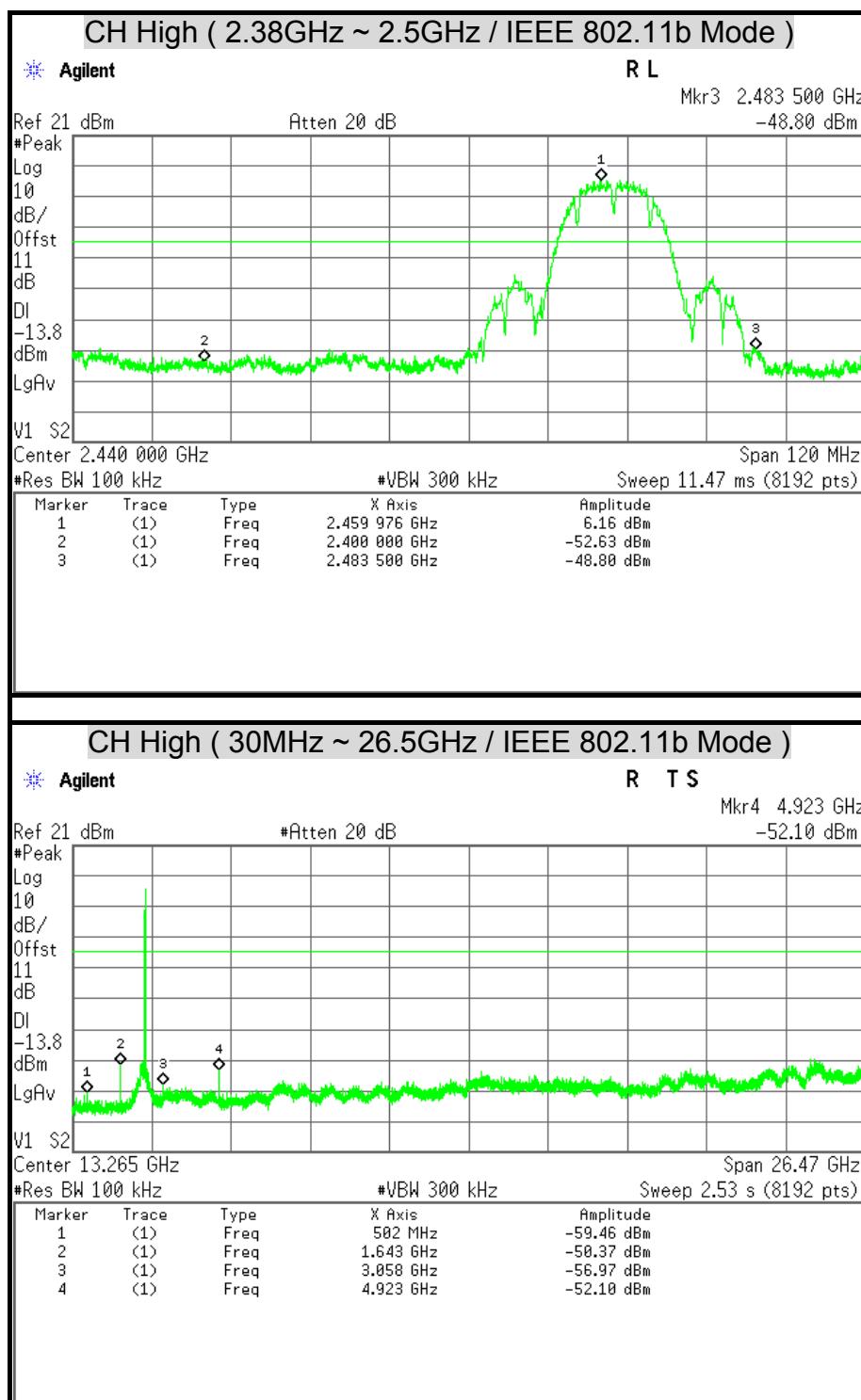


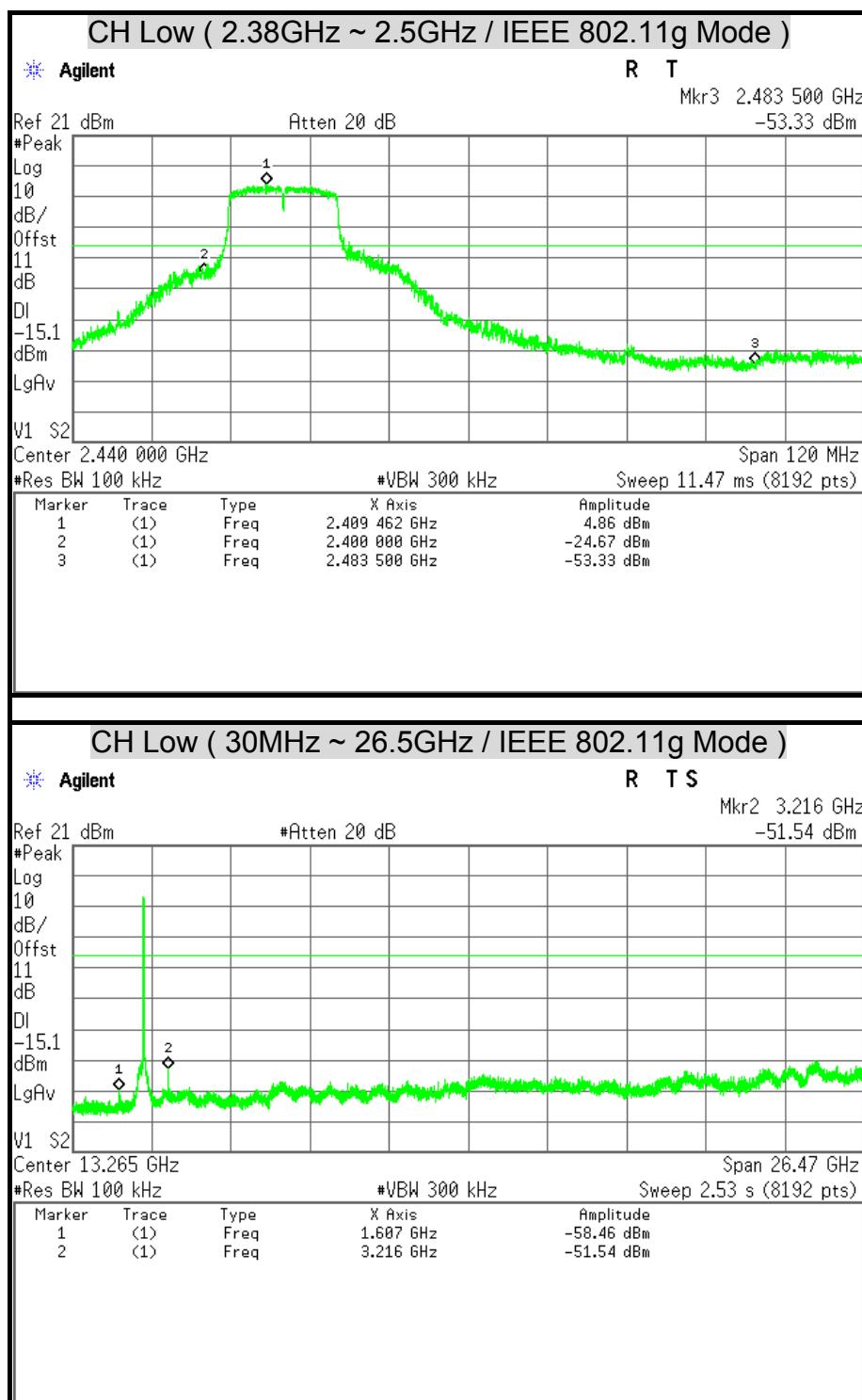
TEST RESULTS

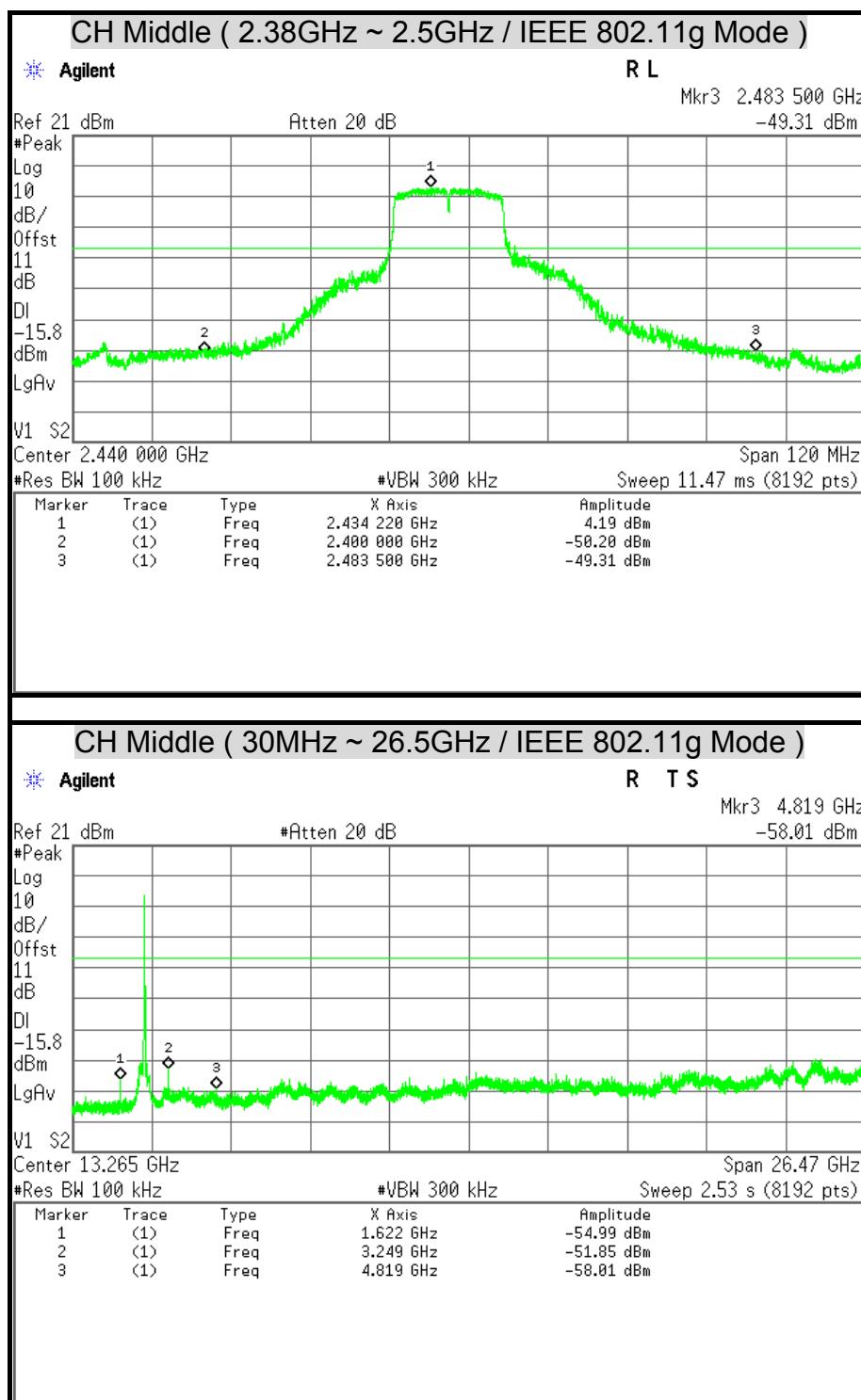
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

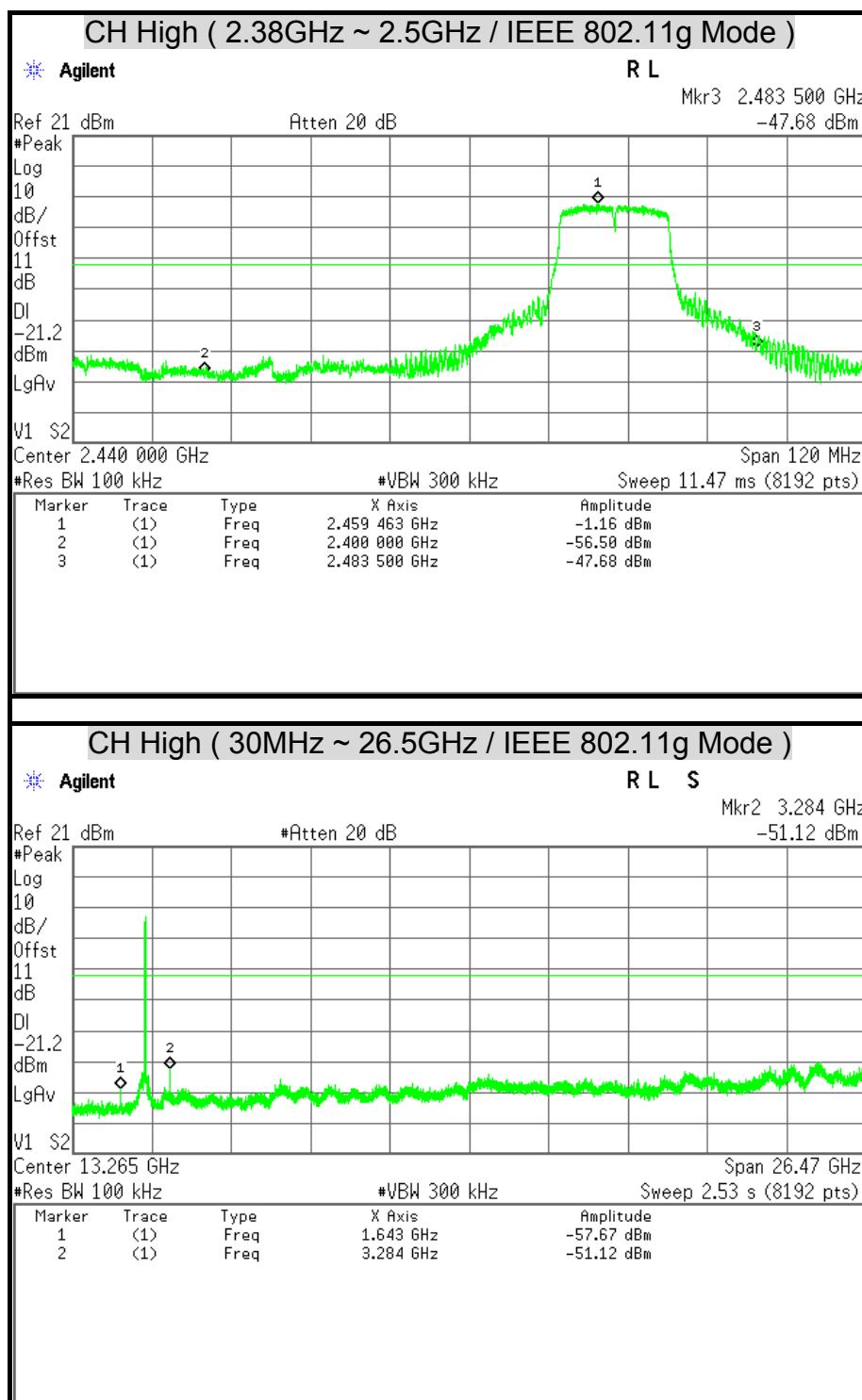


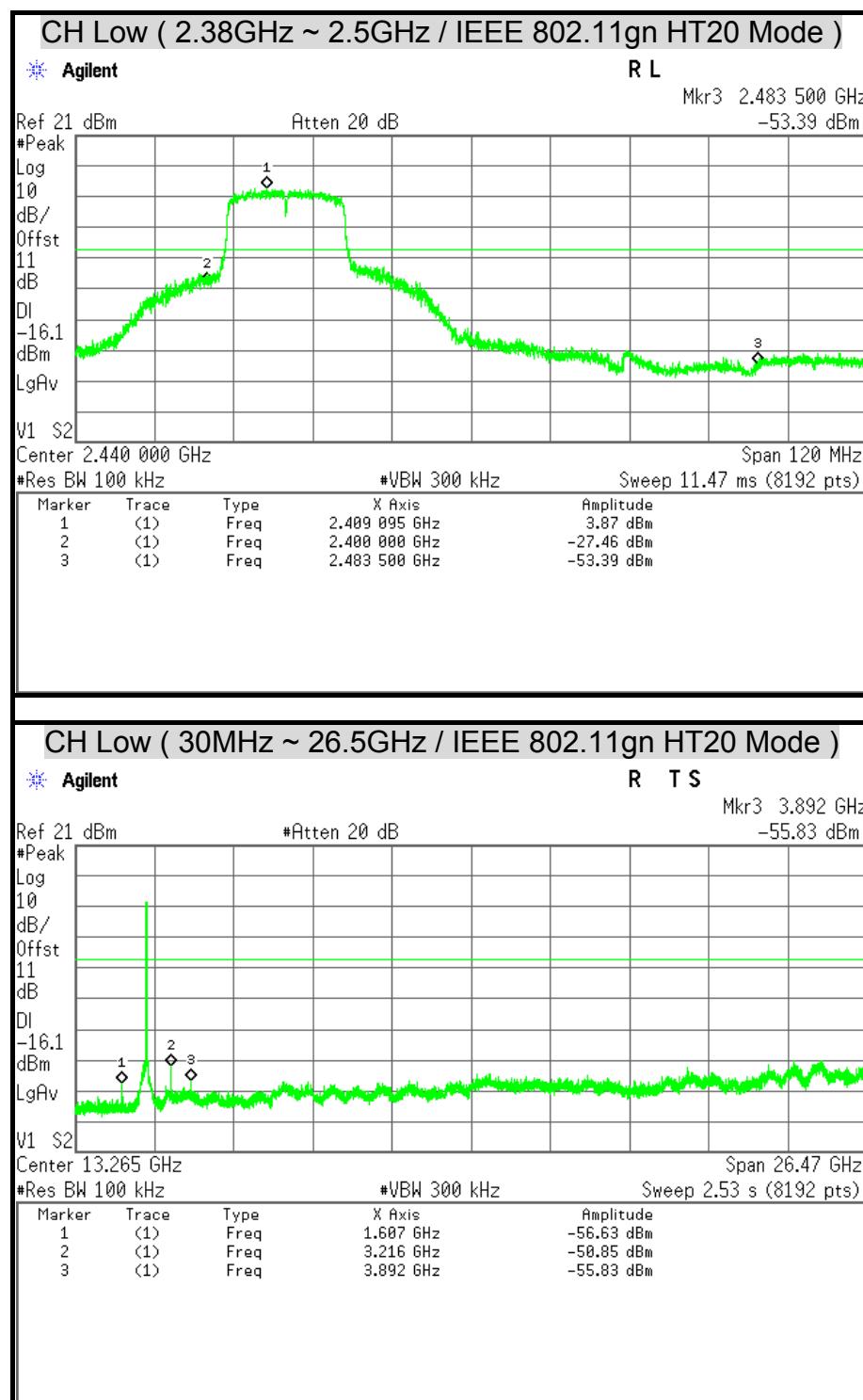


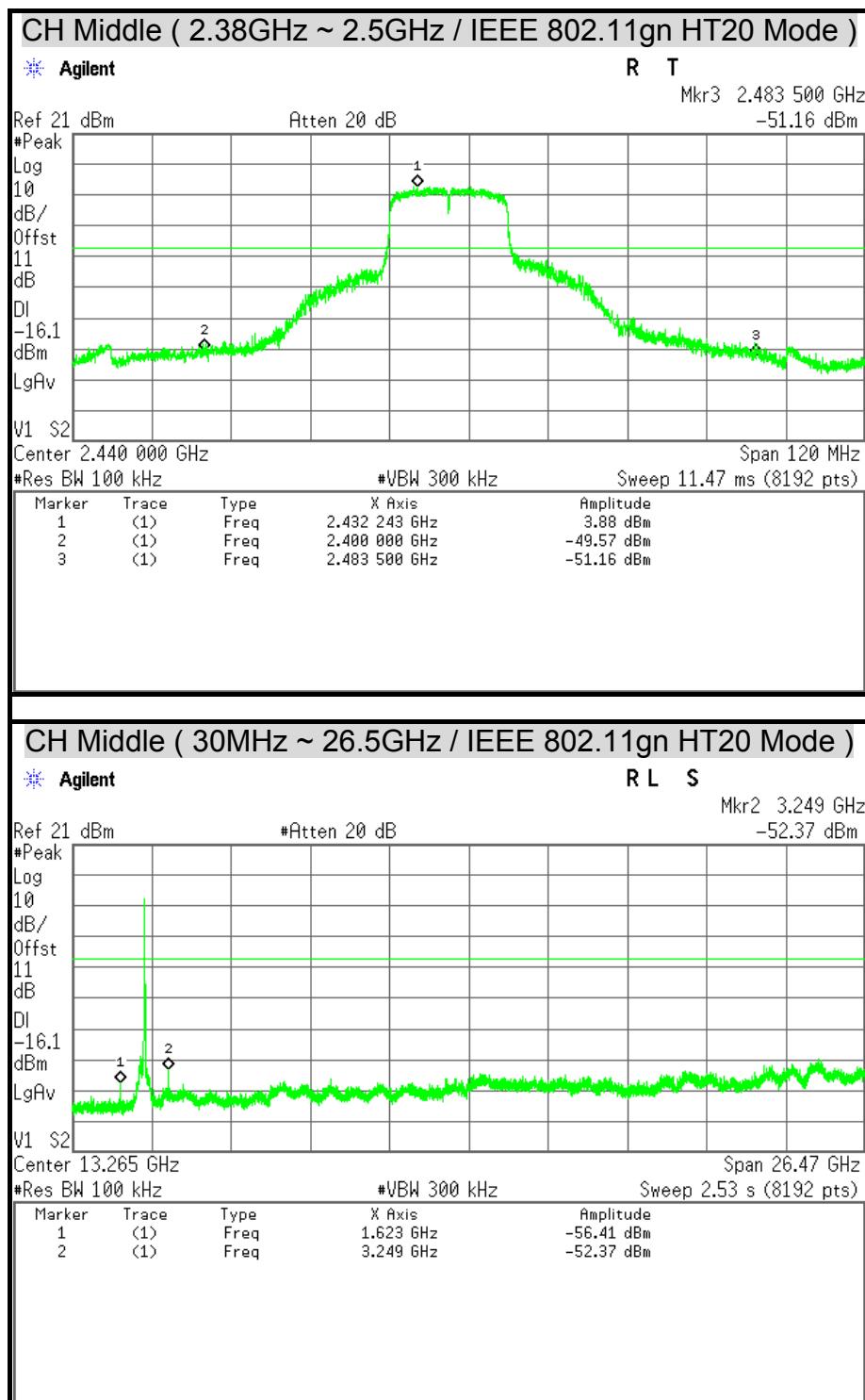


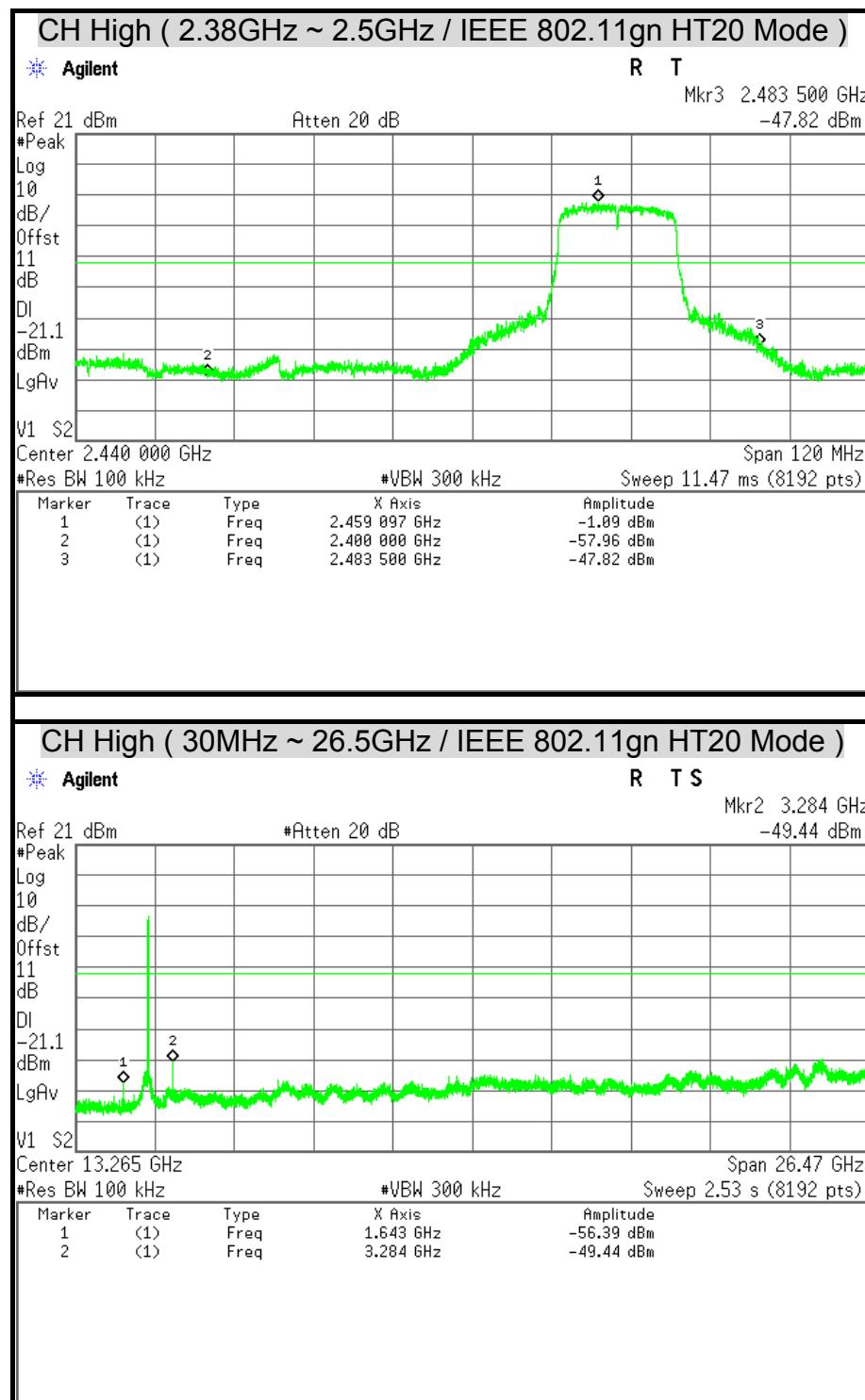


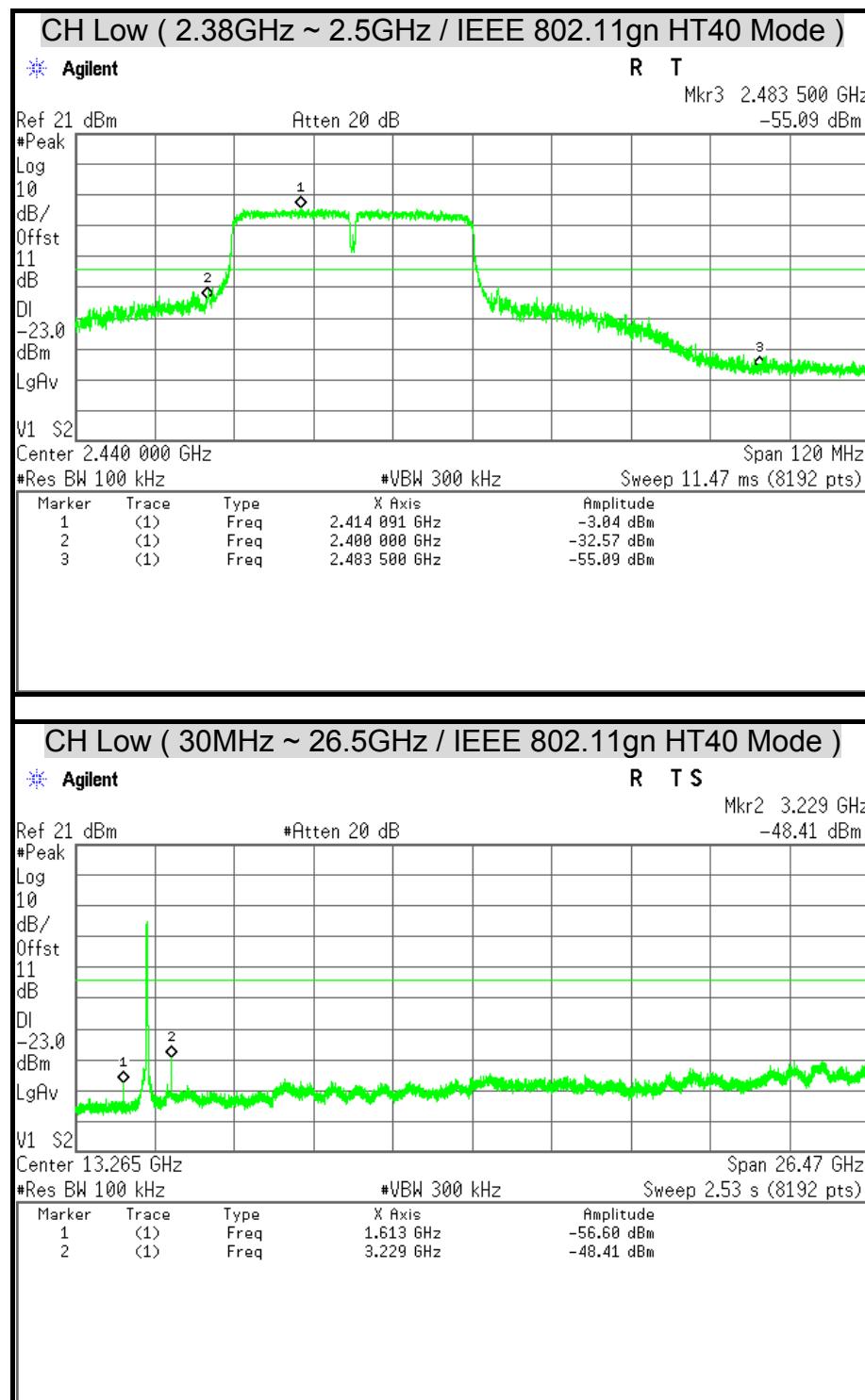


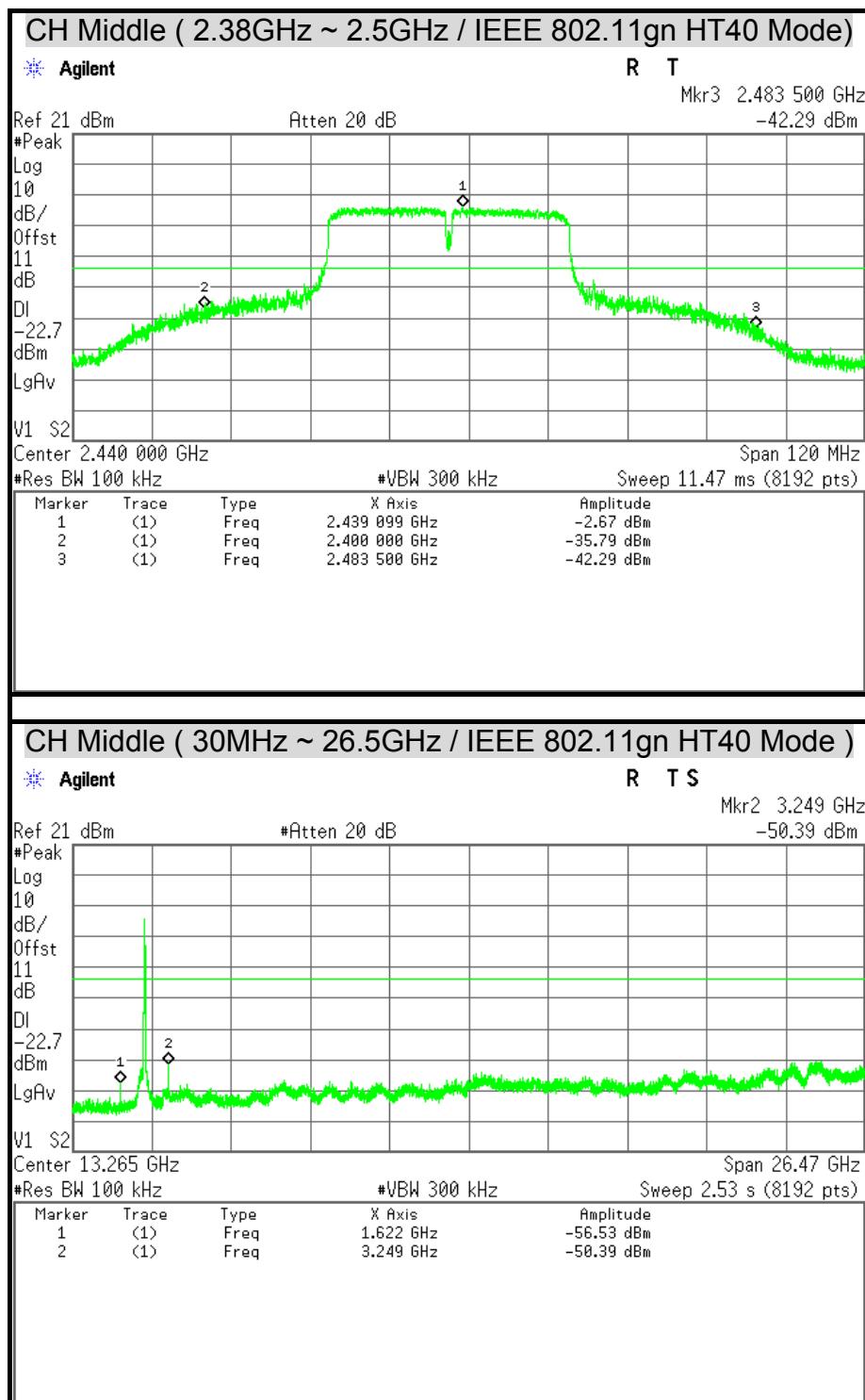


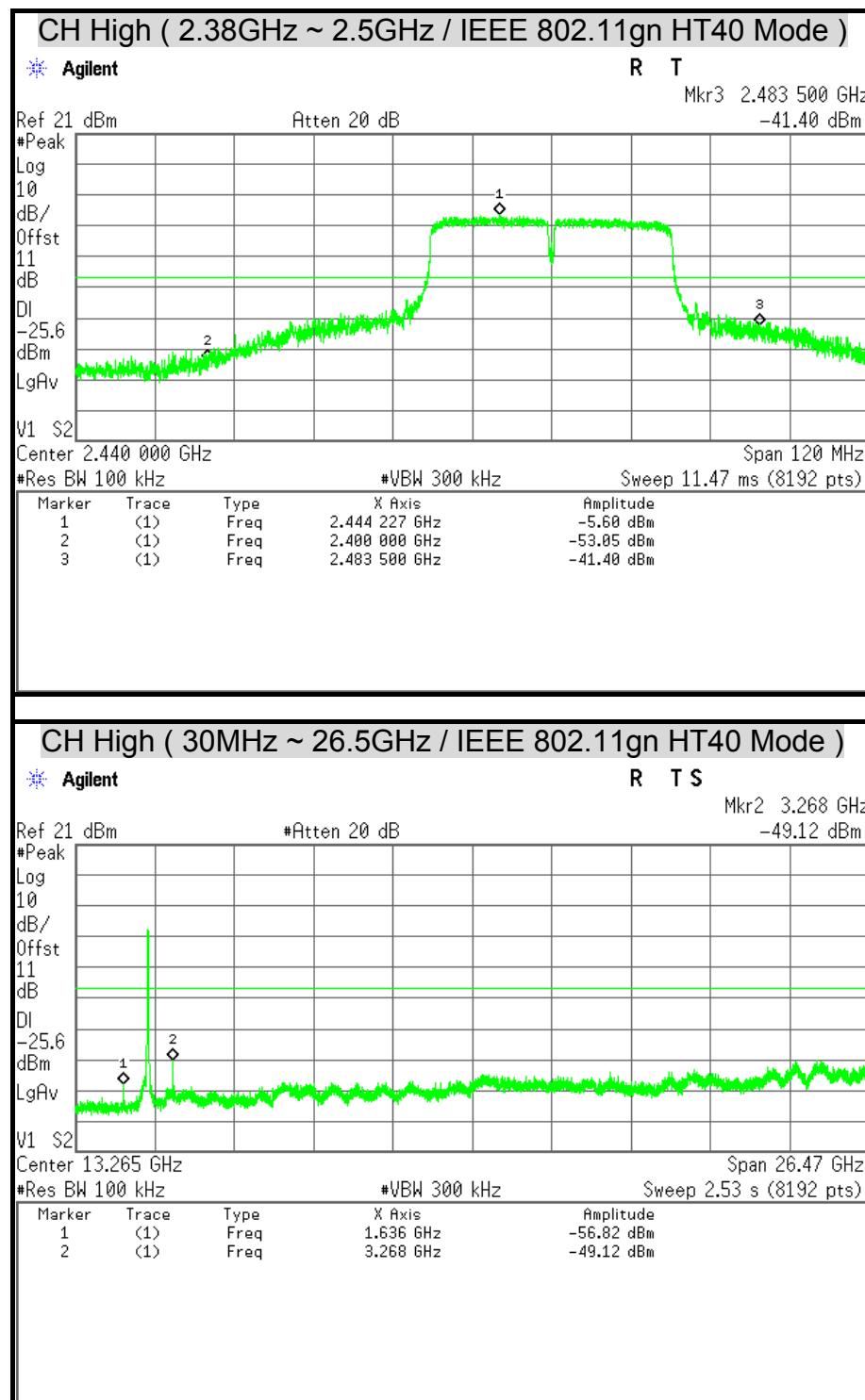


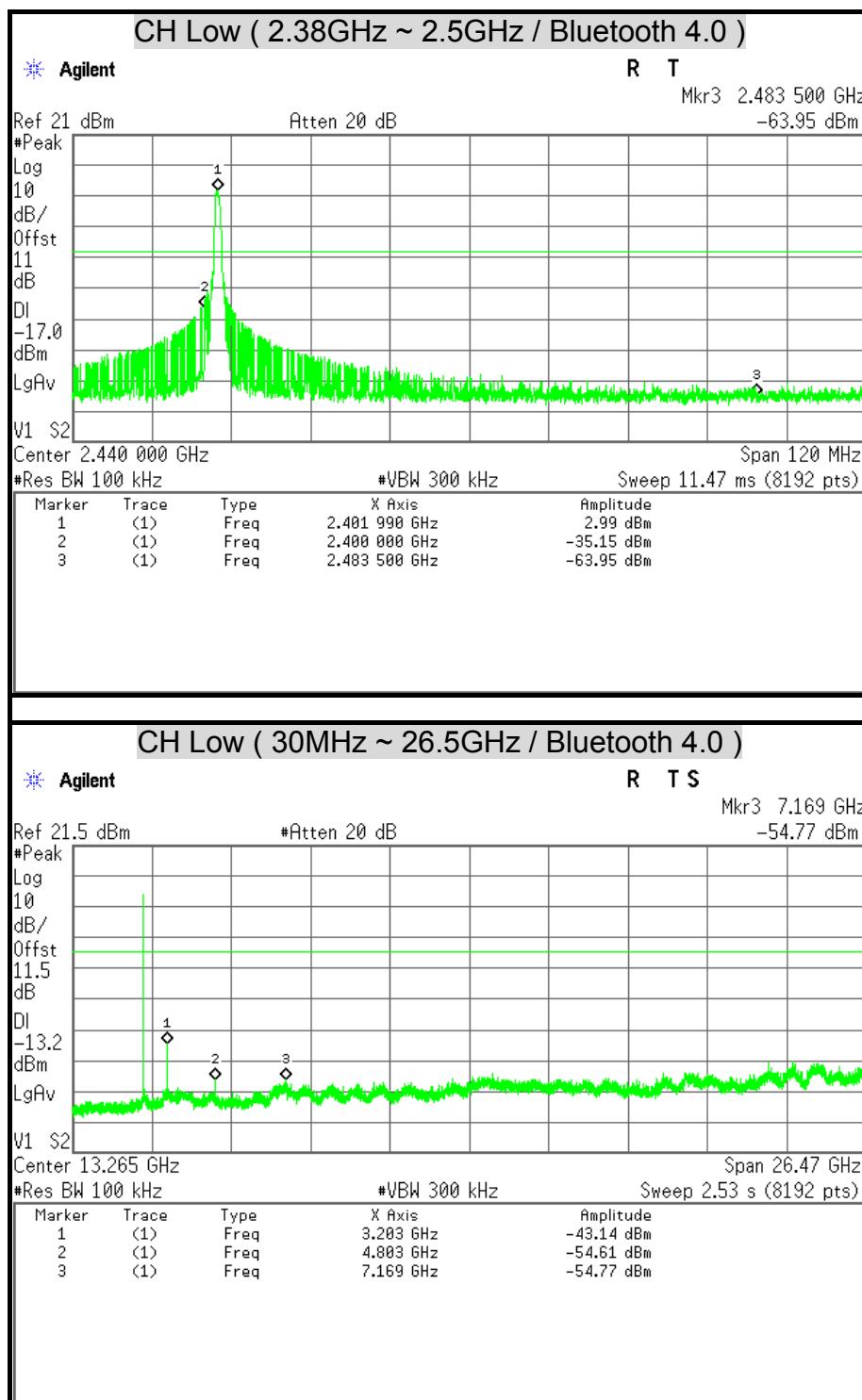


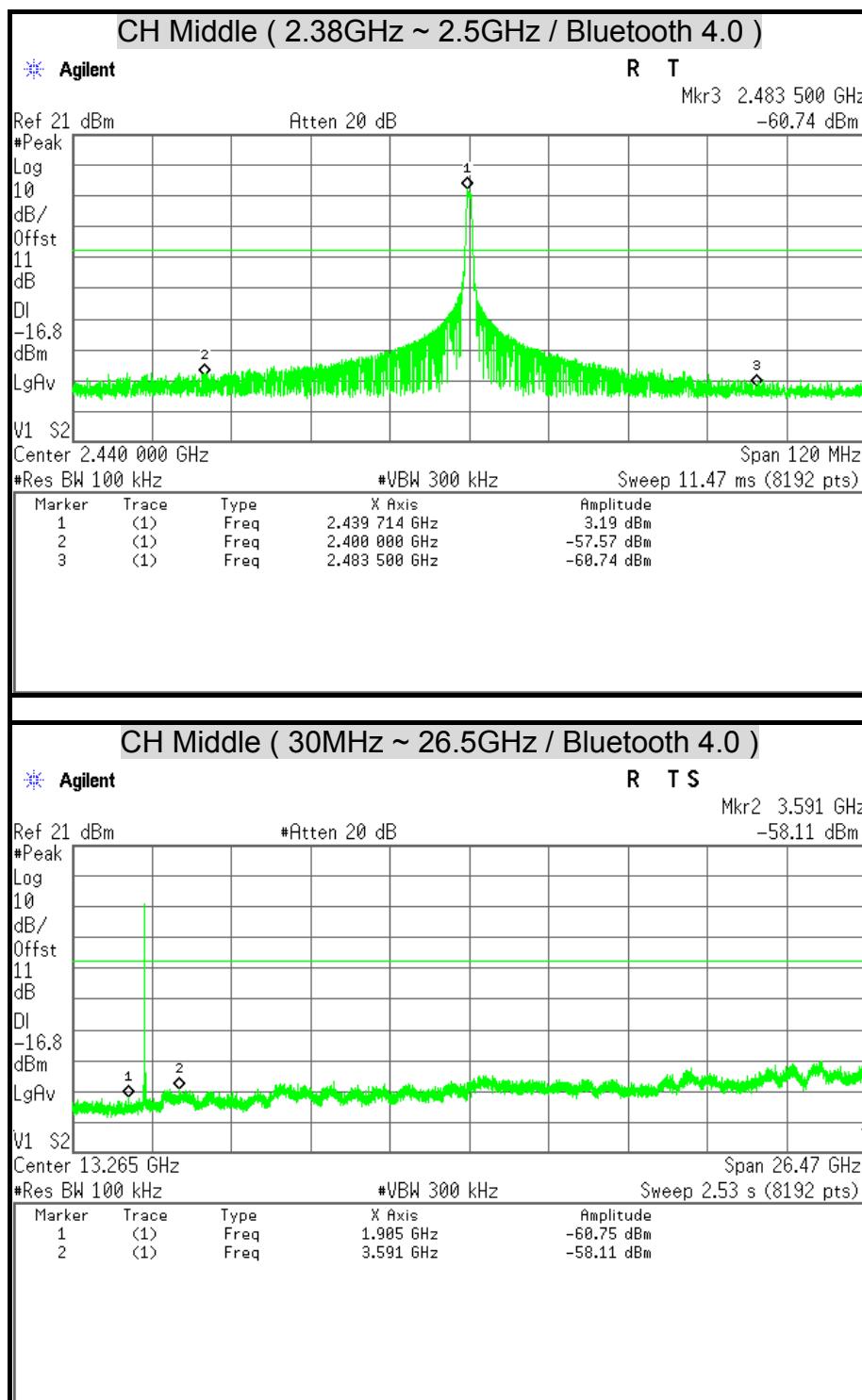


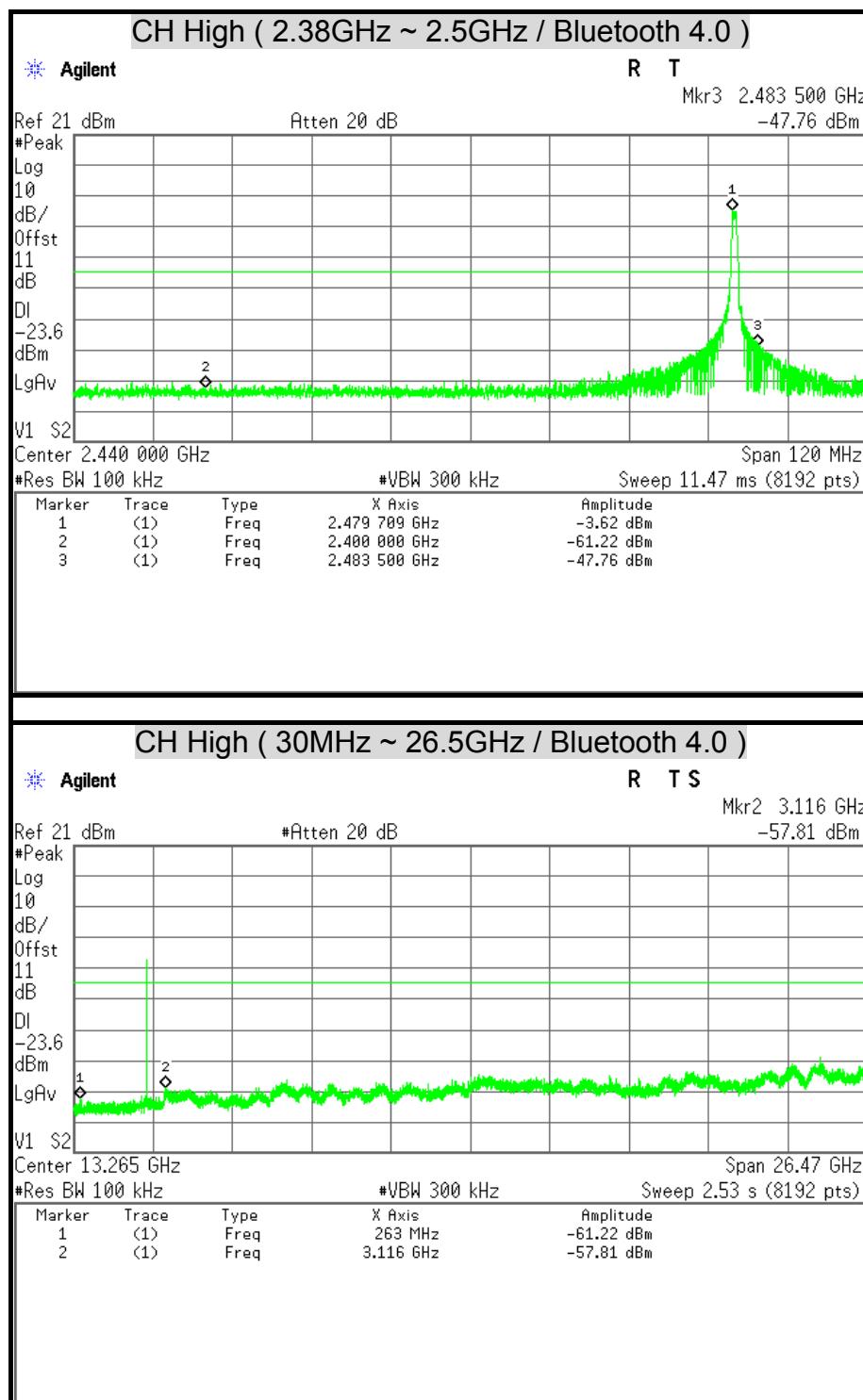














7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

- ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
- ² Above 38.6

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/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

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber_A

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100221	04/29/2014
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-249	09/12/2014
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014
Pre-Amplifier	Agilent	8449B	3008A01471	07/16/2014
Pre-Amplifier	HP	8447F	2944A03748	07/16/2014
Band Reject Notch Filter	Micro-Tronics	BRM05702-01	009	N.C.R

Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

**Radiated Emission / 966Chamber_B**

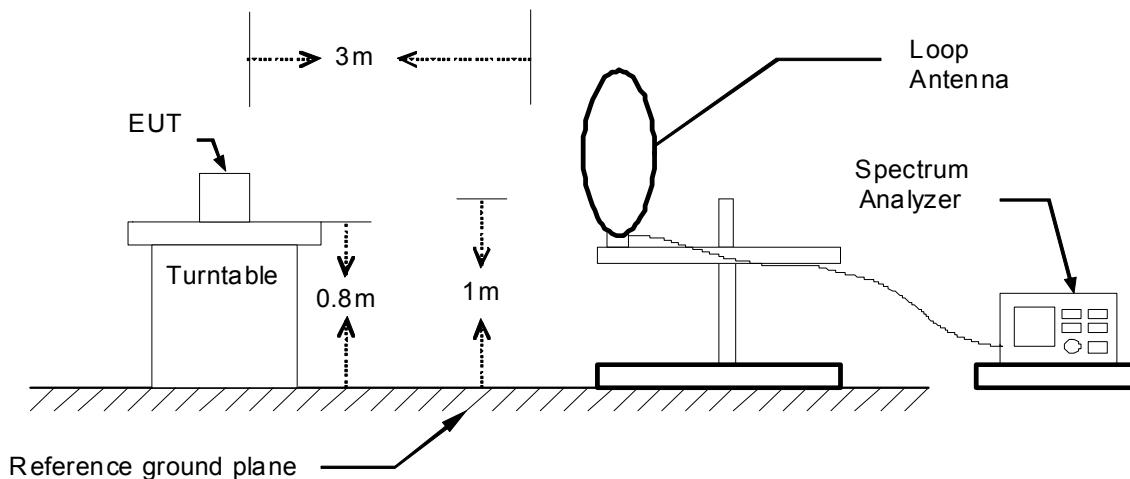
Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/15/2015
EMI Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/16/2014
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-250	09/12/2014
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/05/2014
Horn Antenna	COM-POWER	AH-840	03077	12/18/2014
Pre-Amplifier	Agilent	8447D	2944A10052	07/16/2014
Pre-Amplifier	Agilent	8449B	3008A01916	07/16/2014
LOOP Antenna	EMCO	6502	8905-2356	08/20/2014
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	026	N.C.R

Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

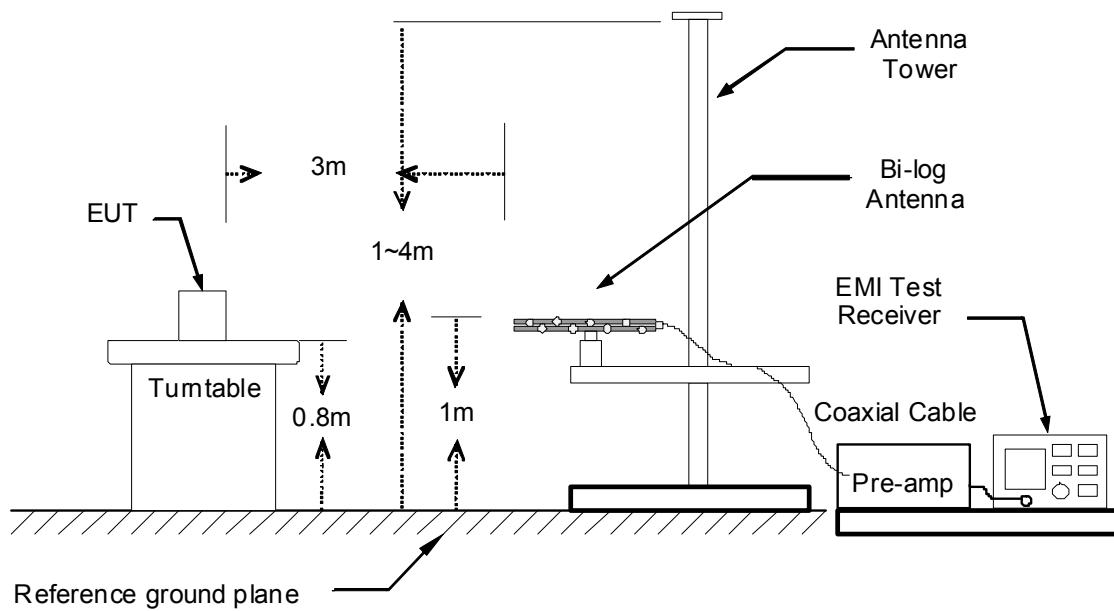
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

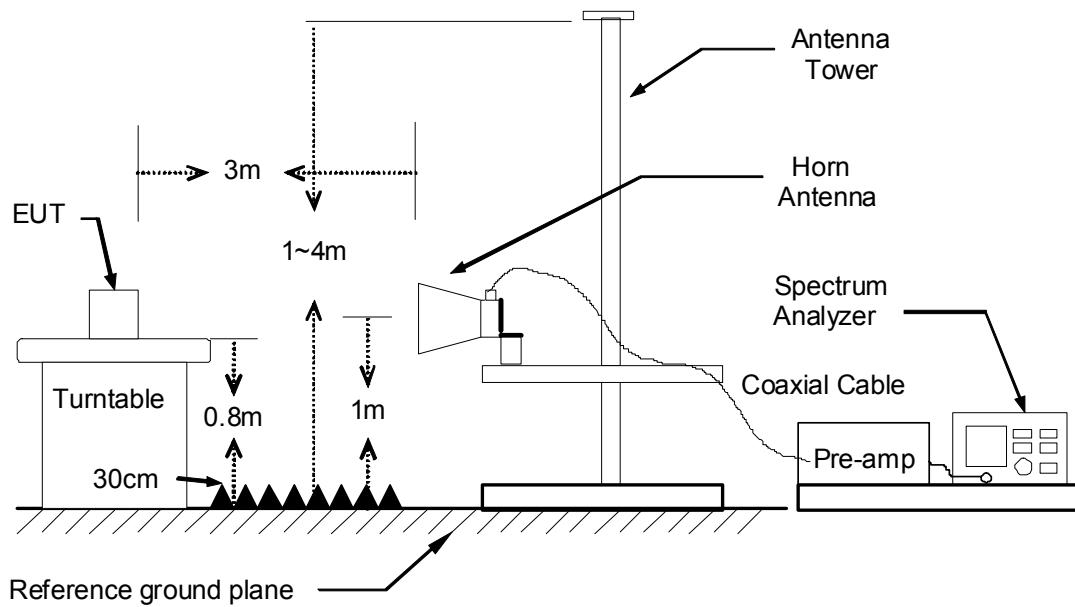
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.





TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark :

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

**TEST RESULTS****Below 1 GHz (9kHz ~ 30MHz)**

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (AVCT / 105-H-1508)	Test Date	2014/03/25
Test Mode	Normal Operating / Elevation of 75°	Temp. & Humidity	24°C, 50%

966 Chamber_A at 3Meter / Horizontal						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
76.56	46.91	-14.04	32.87	40.00	-7.13	Peak
400.54	39.35	-6.33	33.02	46.00	-12.98	Peak
530.52	44.00	-3.37	40.62	46.00	-5.38	Peak
676.02	39.87	-0.75	39.13	46.00	-6.87	Peak
716.76	37.60	0.15	37.75	46.00	-8.25	QP
757.50	39.44	1.22	40.66	46.00	-5.34	Peak
825.40	36.51	1.82	38.33	46.00	-7.67	Peak

966 Chamber_A at 3Meter / Vertical						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
35.82	44.88	-10.74	34.14	40.00	-5.86	Peak
346.22	43.61	-7.71	35.90	46.00	-10.10	Peak
404.42	43.00	-6.21	36.79	46.00	-9.21	Peak
532.46	42.80	-3.33	39.47	46.00	-6.53	QP
695.42	42.12	-0.44	41.68	46.00	-4.32	QP
891.36	36.28	3.21	39.49	46.00	-6.51	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)
4. Result (dB μ V/m) = Reading (dB μ V) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dB μ V/m) - Quasi-peak limit (dB μ V/m).



Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (AVCT / 105-H-1508)	Test Date	2014/03/25
Test Mode	Normal Operating / Elevation of 115°	Temp. & Humidity	24°C, 50%

966 Chamber_A at 3Meter / Horizontal						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
76.56	46.62	-14.04	32.58	40.00	-7.42	Peak
251.16	45.39	-10.70	34.69	46.00	-11.31	Peak
322.94	42.65	-8.33	34.32	46.00	-11.68	Peak
532.46	41.50	-3.33	38.16	46.00	-7.84	Peak
722.58	33.10	0.33	33.43	46.00	-12.57	QP
740.04	41.00	0.88	41.88	46.00	-4.12	Peak
914.64	33.10	3.65	36.75	46.00	-9.25	Peak

966 Chamber_A at 3Meter / Vertical						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
30.00	46.20	-11.27	34.93	40.00	-5.07	Peak
394.72	46.83	-6.48	40.35	46.00	-5.65	Peak
532.46	41.30	-3.33	37.97	46.00	-8.03	QP
714.82	37.90	0.09	37.99	46.00	-8.01	QP
862.26	33.80	2.53	36.33	46.00	-9.67	QP
918.52	35.53	3.71	39.24	46.00	-6.76	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
4. Result (dB μ V/m) = Reading (dB μ V) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dB μ V/m) - Quasi-peak limit (dB μ V/m).



Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (GETAC / GFF-150C2)	Test Date	2014/04/23
Test Mode	Normal Operating / Elevation of 75°	Temp. & Humidity	24°C, 52%

966 Chamber_B at 3Meter / Horizontal						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
30.00	40.00	-15.45	24.55	40.00	-15.45	QP
77.53	53.30	-18.09	35.21	40.00	-4.79	Peak
129.91	52.06	-15.03	37.03	43.50	-6.47	Peak
531.49	46.21	-7.71	38.50	46.00	-7.50	Peak
590.66	47.25	-6.18	41.08	46.00	-4.92	Peak
649.83	47.02	-5.72	41.30	46.00	-4.70	Peak
800.18	37.50	-3.09	34.41	46.00	-11.59	QP

966 Chamber_B at 3Meter / Vertical						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
30.00	47.70	-15.45	32.25	40.00	-7.75	QP
38.73	48.70	-14.61	34.09	40.00	-5.91	QP
129.91	49.62	-15.03	34.59	43.50	-8.91	Peak
398.60	51.21	-9.96	41.25	46.00	-4.75	Peak
533.43	48.21	-7.68	40.53	46.00	-5.47	Peak
773.02	45.14	-3.35	41.79	46.00	-4.21	Peak
940.83	39.40	-0.70	38.70	46.00	-7.30	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)
4. Result (dB μ V/m) = Reading (dB μ V) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dB μ V/m) - Quasi-peak limit (dB μ V/m).



Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (GETAC / GFF-150C2)	Test Date	2014/04/23
Test Mode	Normal Operating / Elevation of 115°	Temp. & Humidity	24°C, 52%

966 Chamber_B at 3Meter / Horizontal						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
30.00	39.30	-15.45	23.85	40.00	-16.15	QP
77.53	51.96	-18.09	33.87	40.00	-6.13	Peak
129.91	49.89	-15.03	34.86	43.50	-8.64	Peak
215.27	48.69	-15.62	33.07	43.50	-10.43	Peak
334.58	46.50	-11.20	35.30	46.00	-10.70	Peak
406.36	43.54	-9.79	33.75	46.00	-12.25	Peak
630.43	46.46	-5.79	40.67	46.00	-5.33	Peak
799.21	41.60	-3.10	38.50	46.00	-7.50	QP
956.35	39.29	-0.48	38.82	46.00	-7.18	Peak

966 Chamber_B at 3Meter / Vertical						
Frequency (MHz)	Reading (dB μ V)	Correction Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
30.00	47.20	-15.45	31.75	40.00	-8.25	QP
38.73	50.40	-14.61	35.79	40.00	-4.21	QP
399.57	50.62	-9.94	40.69	46.00	-5.31	Peak
590.66	47.47	-6.18	41.30	46.00	-4.70	Peak
796.30	40.80	-3.13	37.67	46.00	-8.33	QP
941.80	41.98	-0.69	41.29	46.00	-4.71	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
4. Result (dB μ V/m) = Reading (dB μ V) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dB μ V/m) - Quasi-peak limit (dB μ V/m).



Above 1 GHz

Product Name	AIO Panel			Test By		Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date		2014/04/03		
Test Mode	IEEE 802.11b TX / CH Low			Temp. & Humidity		22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1158.00	54.03	---	-2.89	51.15	---	74.00	54.00	-2.85	Peak
1552.00	53.91	---	-2.41	51.50	---	74.00	54.00	-2.50	Peak
2290.00	54.73	42.47	2.39	57.12	44.86	74.00	54.00	-9.14	AVG
2492.00	55.59	44.83	2.79	58.38	47.62	74.00	54.00	-6.38	AVG
3000.00	57.18	36.39	4.08	61.26	40.47	74.00	54.00	-13.53	AVG
4425.00	41.78	---	7.18	48.95	---	74.00	54.00	-5.05	Peak
4822.50	40.32	---	8.07	48.39	---	74.00	54.00	-5.61	Peak
6547.50	39.65	---	12.26	51.91	---	74.00	54.00	-2.09	Peak
966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1146.00	54.04	---	-2.89	51.15	---	74.00	54.00	-2.85	Peak
1572.00	54.21	---	-2.22	51.99	---	74.00	54.00	-2.01	Peak
2286.00	56.31	44.13	2.39	58.70	46.52	74.00	54.00	-7.48	AVG
2490.00	55.69	45.79	2.79	58.48	48.58	74.00	54.00	-5.42	AVG
3000.00	56.09	35.37	4.08	60.17	39.45	74.00	54.00	-14.55	AVG
3930.00	41.06	---	5.67	46.73	---	74.00	54.00	-7.27	Peak
4822.50	40.57	---	8.07	48.64	---	74.00	54.00	-5.36	Peak
6735.00	39.20	---	12.20	51.40	---	74.00	54.00	-2.60	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/03		
Test Mode	IEEE 802.11b TX / CH Middle			Temp. & Humidity	22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1132.00	57.53	45.65	-2.89	54.64	42.76	74.00	54.00	-11.24	AVG
1556.00	53.08	---	-2.37	50.71	---	74.00	54.00	-3.29	Peak
2272.00	54.34	42.65	2.36	56.70	45.01	74.00	54.00	-8.99	AVG
3000.00	57.32	41.03	4.08	61.40	45.11	74.00	54.00	-8.89	AVG
3945.00	42.04	---	5.71	47.75	---	74.00	54.00	-6.25	Peak
4875.00	41.51	---	8.18	49.69	---	74.00	54.00	-4.31	Peak
6135.00	39.78	---	11.20	50.97	---	74.00	54.00	-3.03	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1158.00	54.11	---	-2.89	51.23	---	74.00	54.00	-2.77	Peak
1568.00	57.74	45.48	-2.26	55.48	43.22	74.00	54.00	-10.78	AVG
2280.00	55.75	43.67	2.37	58.12	46.04	74.00	54.00	-7.96	AVG
3000.00	56.45	36.60	4.08	60.53	40.68	74.00	54.00	-13.32	AVG
3975.00	41.50	---	5.79	47.29	---	74.00	54.00	-6.71	Peak
4875.00	41.73	---	8.18	49.91	---	74.00	54.00	-4.09	Peak
6517.50	39.03	---	12.27	51.30	---	74.00	54.00	-2.70	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/03		
Test Mode	IEEE 802.11b TX / CH High			Temp. & Humidity	22 °C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1180.00	54.64	---	-2.89	51.75	---	74.00	54.00	-2.25	Peak
1572.00	53.72	---	-2.22	51.50	---	74.00	54.00	-2.50	Peak
2304.00	54.33	41.56	2.42	56.75	43.98	74.00	54.00	-10.02	AVG
3000.00	55.79	33.86	4.08	59.87	37.94	74.00	54.00	-16.06	AVG
3937.50	41.62	---	5.69	47.31	---	74.00	54.00	-6.69	Peak
4965.00	40.20	---	8.37	48.56	---	74.00	54.00	-5.44	Peak
6517.50	39.26	---	12.27	51.53	---	74.00	54.00	-2.47	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1134.00	54.29	---	-2.89	51.40	---	74.00	54.00	-2.60	Peak
1550.00	57.55	45.71	-2.43	55.12	43.28	74.00	54.00	-10.72	AVG
2290.00	54.84	42.29	2.39	57.23	44.68	74.00	54.00	-9.32	AVG
3000.00	56.53	37.01	4.08	60.61	41.09	74.00	54.00	-12.91	AVG
3885.00	42.02	---	5.54	47.56	---	74.00	54.00	-6.44	Peak
4927.50	40.28	---	8.29	48.57	---	74.00	54.00	-5.43	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By		Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date		2014/04/02		
Test Mode	IEEE 802.11g TX / CH Low			Temp. & Humidity		22 °C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1156.00	58.62	46.85	-2.89	55.73	43.96	74.00	54.00	-10.04	AVG
1592.00	54.46	---	-2.03	52.43	---	74.00	54.00	-1.57	Peak
2282.00	55.83	43.93	2.38	58.21	46.31	74.00	54.00	-7.69	AVG
2484.00	58.67	45.06	2.78	61.45	47.84	74.00	54.00	-6.16	AVG
3000.00	55.76	36.71	4.08	59.84	40.79	74.00	54.00	-13.21	AVG
3975.00	41.45	---	5.79	47.25	---	74.00	54.00	-6.75	Peak
4927.50	40.12	---	8.29	48.41	---	74.00	54.00	-5.59	Peak
6105.00	39.83	---	11.11	50.94	---	74.00	54.00	-3.06	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1156.00	55.44	---	-2.89	52.56	---	74.00	54.00	-1.44	Peak
1564.00	57.61	45.62	-2.30	55.31	43.32	74.00	54.00	-10.68	AVG
2264.00	57.56	43.83	2.34	59.90	46.17	74.00	54.00	-7.83	AVG
2484.00	60.75	46.21	2.78	63.53	48.99	74.00	54.00	-5.01	AVG
3000.00	56.36	39.45	4.08	60.44	43.53	74.00	54.00	-10.47	AVG
3217.50	44.01	---	4.26	48.27	---	74.00	54.00	-5.73	Peak
4935.00	40.75	---	8.31	49.06	---	74.00	54.00	-4.94	Peak
6555.00	38.89	---	12.25	51.15	---	74.00	54.00	-2.85	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/02		
Test Mode	IEEE 802.11g TX / CH Middle			Temp. & Humidity	22 °C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1176.00	54.79	---	-2.89	51.91	---	74.00	54.00	-2.09	Peak
1572.00	54.83	---	-2.22	52.61	---	74.00	54.00	-1.39	Peak
2300.00	54.81	43.16	2.41	57.22	45.57	74.00	54.00	-8.43	AVG
2484.00	68.80	50.13	2.78	71.58	52.91	74.00	54.00	-1.09	AVG
3000.00	57.17	41.42	4.08	61.25	45.50	74.00	54.00	-8.50	AVG
3945.00	41.67	---	5.71	47.38	---	74.00	54.00	-6.62	Peak
4875.00	40.05	---	8.18	48.24	---	74.00	54.00	-5.76	Peak
6555.00	38.86	---	12.25	51.12	---	74.00	54.00	-2.88	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1156.00	53.69	---	-2.89	50.81	---	74.00	54.00	-3.19	Peak
1524.00	55.26	---	-2.67	52.58	---	74.00	54.00	-1.42	Peak
2278.00	56.60	43.94	2.37	58.97	46.31	74.00	54.00	-7.69	AVG
2484.00	68.99	50.17	2.78	71.77	52.95	74.00	54.00	-1.05	AVG
3000.00	56.10	39.33	4.08	60.18	43.41	74.00	54.00	-10.59	AVG
3255.00	43.26	---	4.29	47.55	---	74.00	54.00	-6.45	Peak
4875.00	41.46	---	8.18	49.64	---	74.00	54.00	-4.36	Peak
6540.00	39.14	---	12.26	51.40	---	74.00	54.00	-2.60	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By		Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date		2014/04/02		
Test Mode	IEEE 802.11g TX / CH High			Temp. & Humidity		22 °C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1168.00	57.23	45.85	-2.89	54.34	42.96	74.00	54.00	-11.04	AVG
1376.00	52.84	---	-2.90	49.94	---	74.00	54.00	-4.06	Peak
1570.00	56.75	44.58	-2.24	54.51	42.34	74.00	54.00	-11.66	AVG
3000.00	56.70	41.44	4.08	60.78	45.52	74.00	54.00	-8.48	AVG
3285.00	45.36	---	4.31	49.67	---	74.00	54.00	-4.33	Peak
4905.00	40.43	---	8.24	48.67	---	74.00	54.00	-5.33	Peak
6855.00	39.89	---	12.17	52.06	---	74.00	54.00	-1.94	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1158.00	54.07	---	-2.89	51.18	---	74.00	54.00	-2.82	Peak
1272.00	54.24	---	-2.89	51.35	---	74.00	54.00	-2.65	Peak
1550.00	57.35	44.84	-2.43	54.92	42.41	74.00	54.00	-11.59	AVG
1930.00	48.89	---	1.16	50.05	---	74.00	54.00	-3.95	Peak
3000.00	55.83	39.80	4.08	59.91	43.88	74.00	54.00	-10.12	AVG
3285.00	44.90	---	4.31	49.21	---	74.00	54.00	-4.79	Peak
4920.00	39.86	---	8.28	48.14	---	74.00	54.00	-5.86	Peak
5880.00	38.99	---	10.44	49.43	---	74.00	54.00	-4.57	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Reuyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/02		
Test Mode	IEEE 802.11gn HT20 TX / CH Low			Temp. & Humidity	22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1182.00	57.78	46.45	-2.89	54.89	43.56	74.00	54.00	-10.44	AVG
1576.00	54.56	---	-2.18	52.37	---	74.00	54.00	-1.63	Peak
2280.00	54.33	41.37	2.37	56.70	43.74	74.00	54.00	-10.26	AVG
3000.00	57.11	41.81	4.08	61.19	45.89	74.00	54.00	-8.11	AVG
3210.00	44.39	---	4.25	48.64	---	74.00	54.00	-5.36	Peak
4905.00	39.33	---	8.24	47.57	---	74.00	54.00	-6.43	Peak
6675.00	38.55	---	12.22	50.77	---	74.00	54.00	-3.23	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1142.00	54.45	---	-2.89	51.57	---	74.00	54.00	-2.43	Peak
1550.00	57.33	45.39	-2.43	54.90	42.96	74.00	54.00	-11.04	AVG
2268.00	55.64	43.57	2.35	57.99	45.92	74.00	54.00	-8.08	AVG
2496.00	56.91	45.44	2.80	59.71	48.24	74.00	54.00	-5.76	AVG
3000.00	55.26	39.26	4.08	59.34	43.34	74.00	54.00	-10.66	AVG
3210.00	44.70	---	4.25	48.96	---	74.00	54.00	-5.04	Peak
4815.00	39.60	---	8.06	47.66	---	74.00	54.00	-6.34	Peak
6585.00	39.42	---	12.25	51.66	---	74.00	54.00	-2.34	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By		Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date		2014/04/02		
Test Mode	IEEE 802.11gn HT20 TX / CH Middle			Temp. & Humidity		22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1158.00	57.61	45.67	-2.89	54.72	42.78	74.00	54.00	-11.22	AVG
1572.00	54.18	---	-2.22	51.96	---	74.00	54.00	-2.04	Peak
2294.00	54.69	42.23	2.40	57.09	44.63	74.00	54.00	-9.37	AVG
2484.00	67.66	47.24	2.78	70.44	50.02	74.00	54.00	-3.98	AVG
3000.00	56.59	41.33	4.08	60.67	45.41	74.00	54.00	-8.59	AVG
4425.00	40.80	---	7.18	47.97	---	74.00	54.00	-6.03	Peak
4965.00	40.83	---	8.37	49.20	---	74.00	54.00	-4.80	Peak
6600.00	40.00	---	12.24	52.24	---	74.00	54.00	-1.76	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1180.00	54.19	---	-2.89	51.30	---	74.00	54.00	-2.70	Peak
1558.00	57.42	45.07	-2.35	55.07	42.72	74.00	54.00	-11.28	AVG
2282.00	55.84	43.54	2.38	58.22	45.92	74.00	54.00	-8.08	AVG
2484.00	70.27	50.17	2.78	73.05	52.95	74.00	54.00	-1.05	AVG
3000.00	55.66	38.10	4.08	59.74	42.18	74.00	54.00	-11.82	AVG
3930.00	41.34	---	5.67	47.01	---	74.00	54.00	-6.99	Peak
4875.00	42.43	---	8.18	50.61	---	74.00	54.00	-3.39	Peak
6705.00	39.72	---	12.21	51.94	---	74.00	54.00	-2.06	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By		Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date		2014/04/02		
Test Mode	IEEE 802.11gn HT20 TX / CH High			Temp. & Humidity		22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1154.00	57.64	46.30	-2.89	54.75	43.41	74.00	54.00	-10.59	AVG
1330.00	53.31	---	-2.89	50.41	---	74.00	54.00	-3.59	Peak
1564.00	53.88	---	-2.30	51.59	---	74.00	54.00	-2.41	Peak
3000.00	57.29	39.80	4.08	61.37	43.88	74.00	54.00	-10.12	AVG
3285.00	44.56	---	4.31	48.87	---	74.00	54.00	-5.13	Peak
4950.00	39.43	---	8.34	47.76	---	74.00	54.00	-6.24	Peak
6510.00	39.23	---	12.27	51.49	---	74.00	54.00	-2.51	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1146.00	53.76	---	-2.89	50.87	---	74.00	54.00	-3.13	Peak
1288.00	53.73	---	-2.89	50.84	---	74.00	54.00	-3.16	Peak
1572.00	56.63	45.33	-2.22	54.41	43.11	74.00	54.00	-10.89	AVG
1974.00	48.96	---	1.57	50.54	---	74.00	54.00	-3.46	Peak
3000.00	55.65	38.83	4.08	59.73	42.91	74.00	54.00	-11.09	AVG
3285.00	45.55	---	4.31	49.87	---	74.00	54.00	-4.13	Peak
4935.00	39.87	---	8.31	48.17	---	74.00	54.00	-5.83	Peak
6390.00	38.42	---	11.95	50.37	---	74.00	54.00	-3.63	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/03		
Test Mode	IEEE 802.11gn HT40 TX / CH Low			Temp. & Humidity	22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1156.00	54.63	---	-2.89	51.74	---	74.00	54.00	-2.26	Peak
1564.00	54.14	---	-2.30	51.84	---	74.00	54.00	-2.16	Peak
2484.00	57.73	41.39	2.78	60.51	44.17	74.00	54.00	-9.83	AVG
3000.00	57.32	41.61	4.08	61.40	45.69	74.00	54.00	-8.31	AVG
3945.00	43.39	---	5.71	49.10	---	74.00	54.00	-4.90	Peak
4935.00	40.43	---	8.31	48.74	---	74.00	54.00	-5.26	Peak
6585.00	39.18	---	12.25	51.43	---	74.00	54.00	-2.57	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1266.00	53.96	---	-2.89	51.07	---	74.00	54.00	-2.93	Peak
1560.00	55.01	---	-2.33	52.68	---	74.00	54.00	-1.32	Peak
2484.00	58.75	42.37	2.78	61.53	45.15	74.00	54.00	-8.85	AVG
3000.00	55.46	38.14	4.08	59.54	42.22	74.00	54.00	-11.78	AVG
3225.00	44.43	---	4.26	48.69	---	74.00	54.00	-5.31	Peak
4950.00	40.60	---	8.34	48.93	---	74.00	54.00	-5.07	Peak
6615.00	39.35	---	12.24	51.59	---	74.00	54.00	-2.41	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin			
Test Model	DMS-SA1300-A1E				Test Date	2014/04/03		
Test Mode	IEEE 802.11gn HT40 TX / CH Middle				Temp. & Humidity	22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1082.00	55.39	---	-2.88	52.51	---	74.00	54.00	-1.49	Peak
1568.00	54.85	---	-2.26	52.59	---	74.00	54.00	-1.41	Peak
2484.00	68.04	50.14	2.78	70.82	52.92	74.00	54.00	-1.08	AVG
3000.00	57.51	40.89	4.08	61.59	44.97	74.00	54.00	-9.03	AVG
4425.00	41.64	---	7.18	48.82	---	74.00	54.00	-5.18	Peak
4860.00	40.86	---	8.15	49.02	---	74.00	54.00	-4.98	Peak
6450.00	39.21	---	12.12	51.34	---	74.00	54.00	-2.66	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1134.00	53.62	---	-2.89	50.73	---	74.00	54.00	-3.27	Peak
1566.00	58.06	45.56	-2.28	55.78	43.28	74.00	54.00	-10.72	AVG
2484.00	68.52	50.21	2.78	71.30	52.99	74.00	54.00	-1.01	AVG
3000.00	56.15	37.67	4.08	60.23	41.75	74.00	54.00	-12.25	AVG
3255.00	42.74	---	4.29	47.03	---	74.00	54.00	-6.97	Peak
4875.00	40.63	---	8.18	48.81	---	74.00	54.00	-5.19	Peak
6360.00	38.63	---	11.86	50.49	---	74.00	54.00	-3.51	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin			
Test Model	DMS-SA1300-A1E				Test Date	2014/04/03		
Test Mode	IEEE 802.11gn HT40 TX / CH High				Temp. & Humidity	22°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1156.00	54.84	---	-2.89	51.96	---	74.00	54.00	-2.04	Peak
1378.00	52.59	---	-2.90	49.69	---	74.00	54.00	-4.31	Peak
1618.00	53.32	---	-1.79	51.54	---	74.00	54.00	-2.46	Peak
3000.00	57.19	41.16	4.08	61.27	45.24	74.00	54.00	-8.76	AVG
3270.00	44.81	---	4.30	49.11	---	74.00	54.00	-4.89	Peak
4935.00	39.91	---	8.31	48.22	---	74.00	54.00	-5.78	Peak
6645.00	39.12	---	12.23	51.35	---	74.00	54.00	-2.65	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1160.00	54.39	---	-2.89	51.50	---	74.00	54.00	-2.50	Peak
1570.00	58.51	45.48	-2.24	56.27	43.24	74.00	54.00	-10.76	AVG
1904.00	48.77	---	0.91	49.68	---	74.00	54.00	-4.32	Peak
3000.00	55.67	39.77	4.08	59.75	43.85	74.00	54.00	-10.15	AVG
3270.00	46.88	---	4.30	51.18	---	74.00	54.00	-2.82	Peak
4935.00	41.25	---	8.31	49.56	---	74.00	54.00	-4.44	Peak
6690.00	39.55	---	12.22	51.77	---	74.00	54.00	-2.23	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/02		
Test Mode	Bluetooth 4.0 / TX Mode / CH Low			Temp. & Humidity	20°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1014.00	52.41	---	-2.88	49.53	---	74.00	54.00	-4.47	Peak
1176.00	58.02	47.18	-2.89	55.13	44.29	74.00	54.00	-9.71	AVG
1478.00	55.35	---	-2.90	52.45	---	74.00	54.00	-1.55	Peak
2484.00	43.92	---	2.78	46.70	---	74.00	54.00	-7.30	Peak
3000.00	57.47	40.56	4.08	61.55	44.64	74.00	54.00	-9.36	AVG
3210.00	42.00	---	4.25	46.25	---	74.00	54.00	-7.75	Peak
4935.00	40.40	---	8.31	48.70	---	74.00	54.00	-5.30	Peak
6630.00	38.82	---	12.23	51.05	---	74.00	54.00	-2.95	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1096.00	54.75	---	-2.88	51.87	---	74.00	54.00	-2.13	Peak
1288.00	52.43	---	-2.89	49.54	---	74.00	54.00	-4.46	Peak
1568.00	56.96	44.25	-2.26	54.70	41.99	74.00	54.00	-12.01	AVG
1706.00	49.24	---	-0.96	48.29	---	74.00	54.00	-5.71	Peak
3000.00	55.94	39.91	4.08	60.02	43.99	74.00	54.00	-10.01	AVG
3645.00	41.33	---	4.89	46.22	---	74.00	54.00	-7.78	Peak
4875.00	39.76	---	8.18	47.94	---	74.00	54.00	-6.06	Peak
6690.00	39.27	---	12.22	51.49	---	74.00	54.00	-2.51	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/02		
Test Mode	Bluetooth 4.0 / TX Mode / CH Middle			Temp. & Humidity	20°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1176.00	57.79	46.77	-2.89	54.90	43.88	74.00	54.00	-10.12	AVG
1582.00	53.08	---	-2.13	50.96	---	74.00	54.00	-3.04	Peak
2390.00	53.30	30.28	2.59	55.89	32.87	74.00	54.00	-21.13	AVG
2484.00	53.47	29.86	2.78	56.25	32.64	74.00	54.00	-21.36	AVG
3000.00	57.38	42.15	4.08	61.46	46.23	74.00	54.00	-7.77	AVG
4425.00	41.99	---	7.18	49.17	---	74.00	54.00	-4.83	Peak
4935.00	39.66	---	8.31	47.97	---	74.00	54.00	-6.03	Peak
6480.00	38.82	---	12.21	51.03	---	74.00	54.00	-2.97	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1096.00	54.77	---	-2.88	51.88	---	74.00	54.00	-2.12	Peak
1284.00	52.46	---	-2.89	49.57	---	74.00	54.00	-4.43	Peak
1582.00	54.95	---	-2.13	52.82	---	74.00	54.00	-1.18	Peak
2390.00	51.57	30.01	2.59	54.16	32.60	74.00	54.00	-21.40	AVG
2484.00	51.93	29.80	2.78	54.71	32.58	74.00	54.00	-21.42	AVG
3000.00	56.80	39.85	4.08	60.88	43.93	74.00	54.00	-10.07	AVG
3990.00	42.00	---	5.83	47.83	---	74.00	54.00	-6.17	Peak
4905.00	40.09	---	8.24	48.33	---	74.00	54.00	-5.67	Peak
5910.00	39.18	---	10.53	49.71	---	74.00	54.00	-4.29	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Remark AVG = Result(AV) - Limit(AV)



Product Name	AIO Panel			Test By	Rueyyan Lin		
Test Model	DMS-SA1300-A1E			Test Date	2014/04/02		
Test Mode	Bluetooth 4.0 / TX Mode / CH High			Temp. & Humidity	20°C, 58%		

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1132.00	57.51	46.93	-2.89	54.62	44.04	74.00	54.00	-9.96	AVG
1478.00	55.28	---	-2.90	52.38	---	74.00	54.00	-1.62	Peak
1588.00	52.63	---	-2.07	50.56	---	74.00	54.00	-3.44	Peak
1706.00	53.01	---	-0.96	52.05	---	74.00	54.00	-1.95	Peak
3000.00	57.73	42.17	4.08	61.81	46.25	74.00	54.00	-7.75	AVG
3945.00	41.88	---	5.71	47.59	---	74.00	54.00	-6.41	Peak
4875.00	39.61	---	8.18	47.79	---	74.00	54.00	-6.21	Peak
6435.00	39.34	---	12.08	51.42	---	74.00	54.00	-2.58	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1096.00	53.86	---	-2.88	50.97	---	74.00	54.00	-3.03	Peak
1222.00	52.40	---	-2.89	49.51	---	74.00	54.00	-4.49	Peak
1570.00	57.36	44.56	-2.24	55.12	42.32	74.00	54.00	-11.68	AVG
1956.00	45.23	---	1.40	46.64	---	74.00	54.00	-7.36	Peak
3000.00	56.55	39.83	4.08	60.63	43.91	74.00	54.00	-10.09	AVG
4470.00	40.64	---	7.32	47.96	---	74.00	54.00	-6.04	Peak
4935.00	39.86	---	8.31	48.17	---	74.00	54.00	-5.83	Peak
6510.00	39.11	---	12.27	51.38	---	74.00	54.00	-2.62	Peak

Remark:

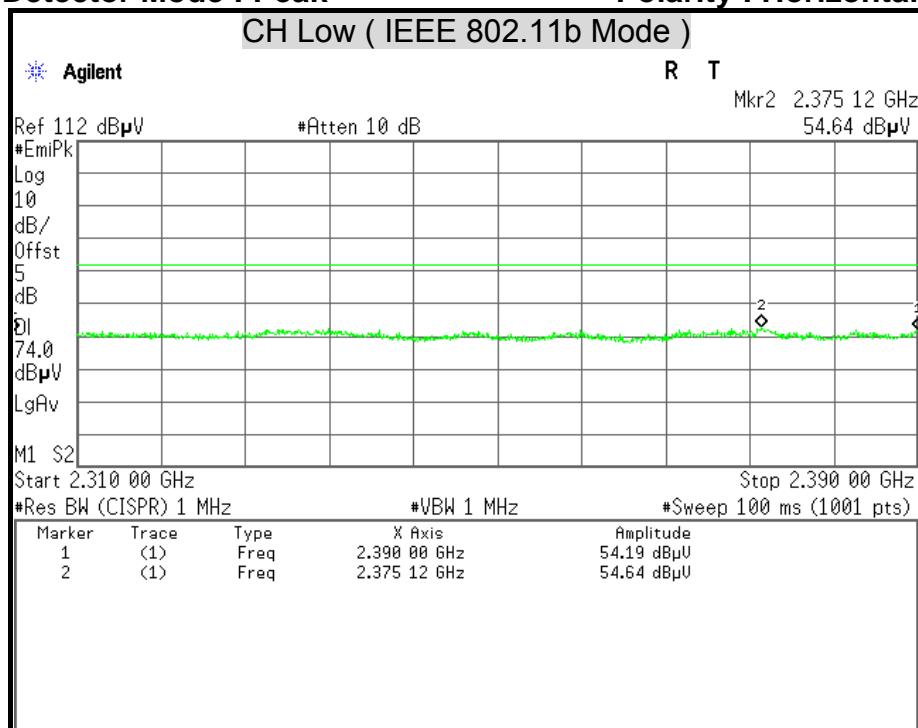
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(AV)
Remark AVG = Result(AV) - Limit(AV)



Restricted Band Edges

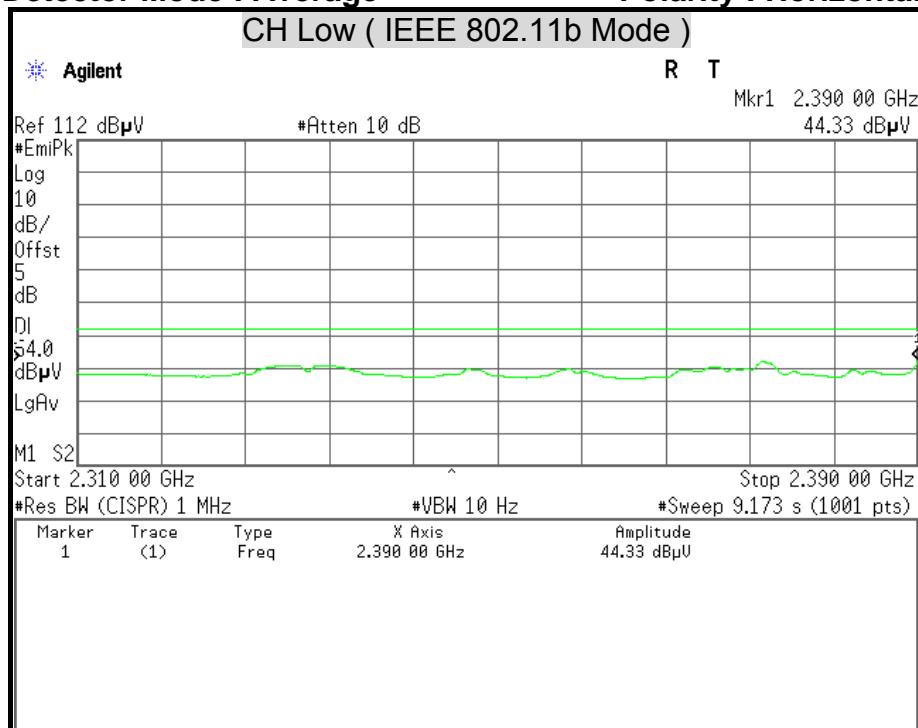
Detector Mode : Peak

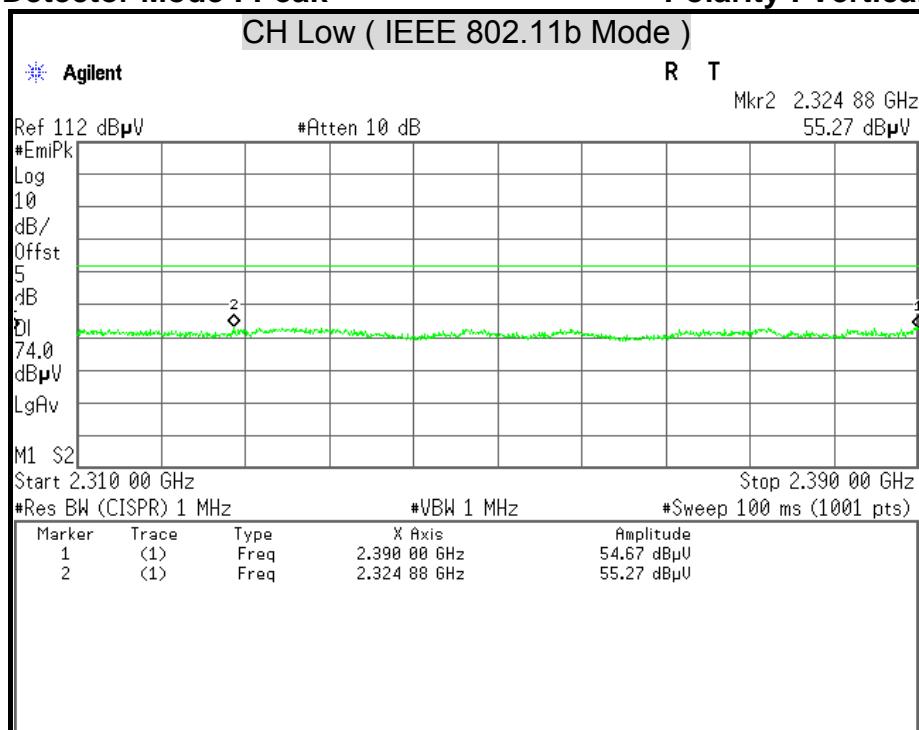
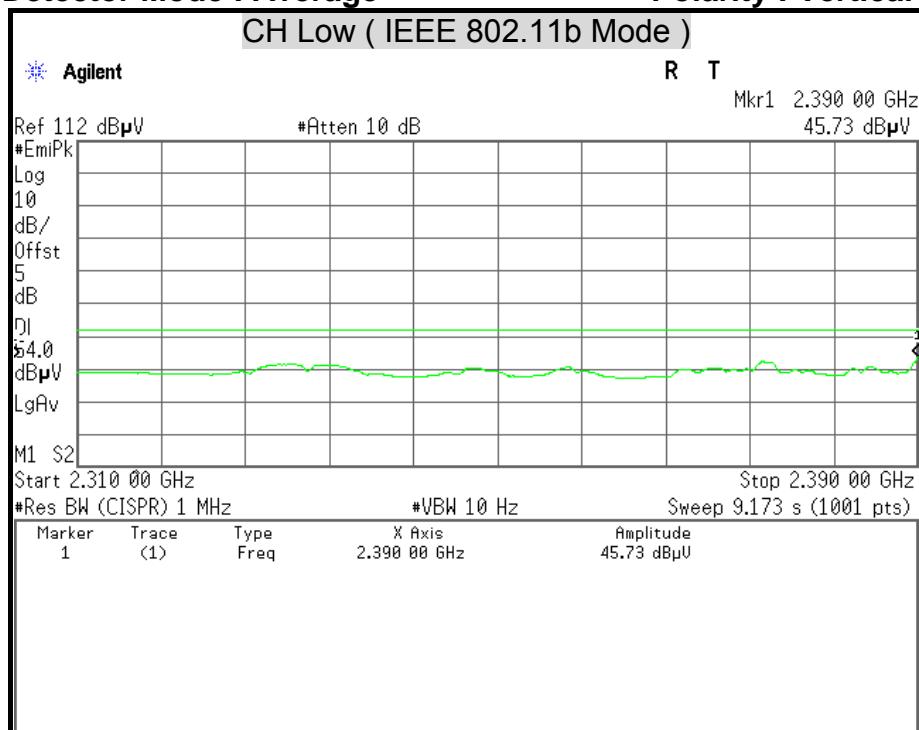
Polarity : Horizontal

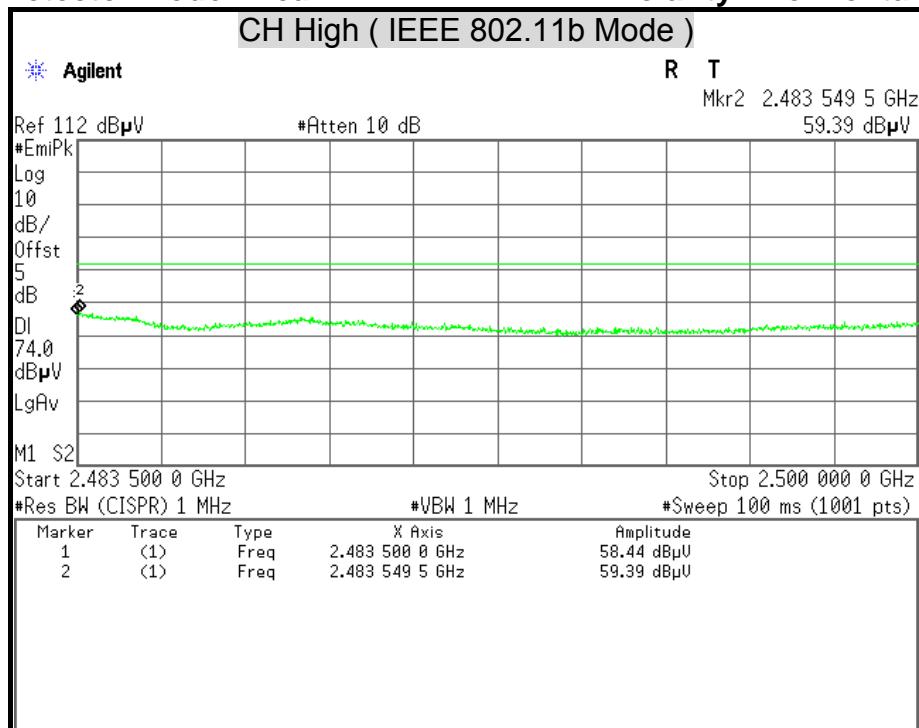
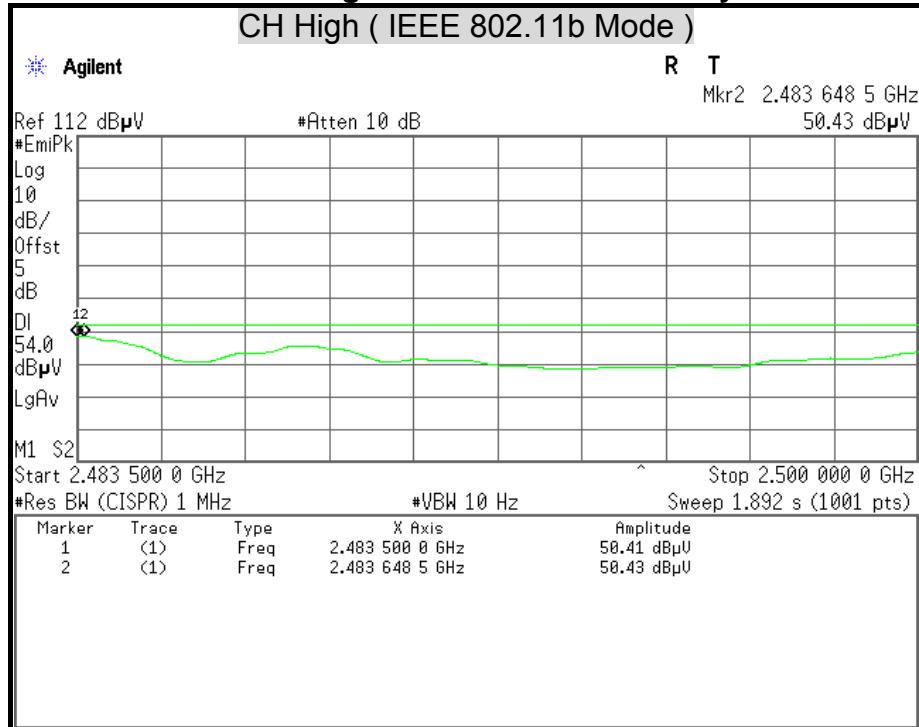


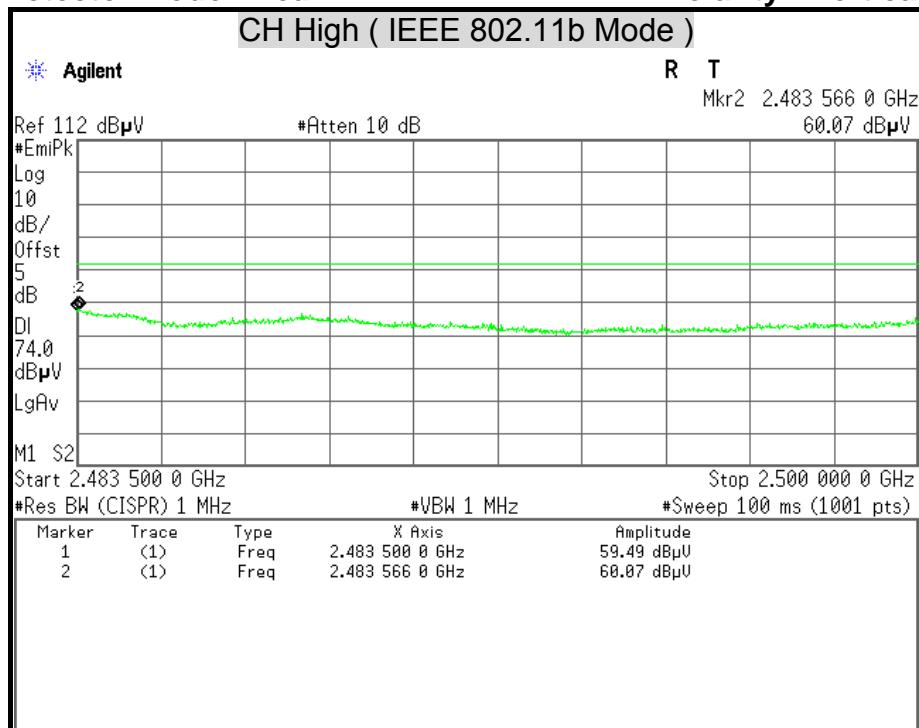
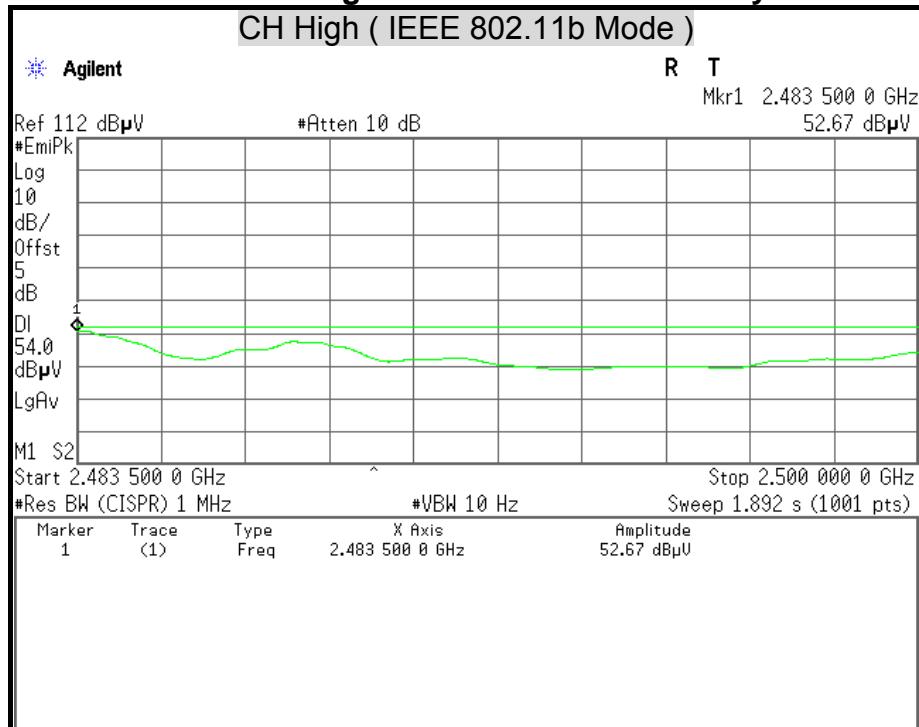
Detector Mode : Average

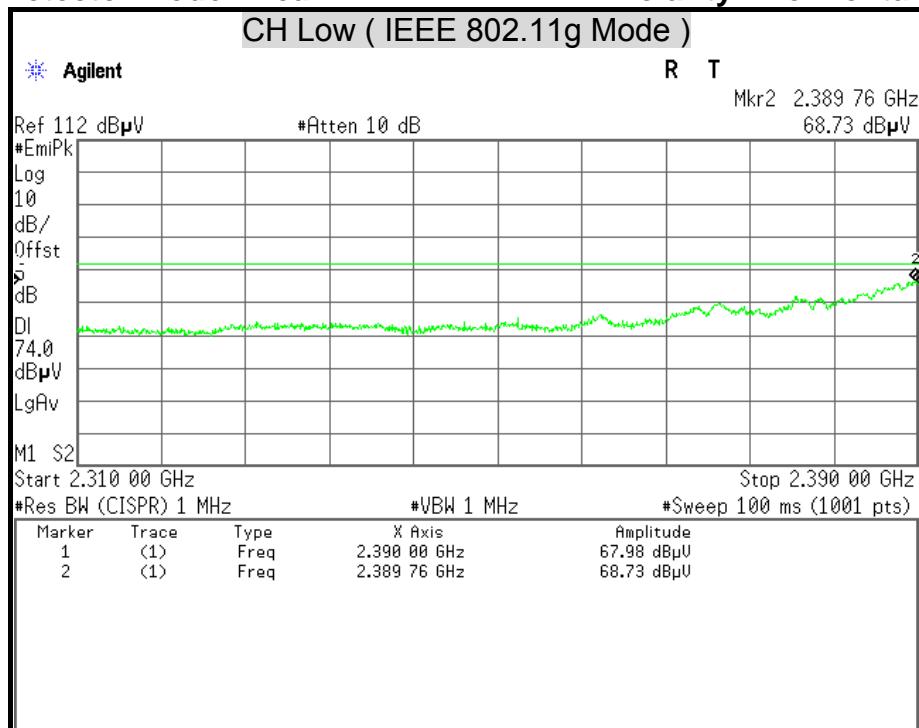
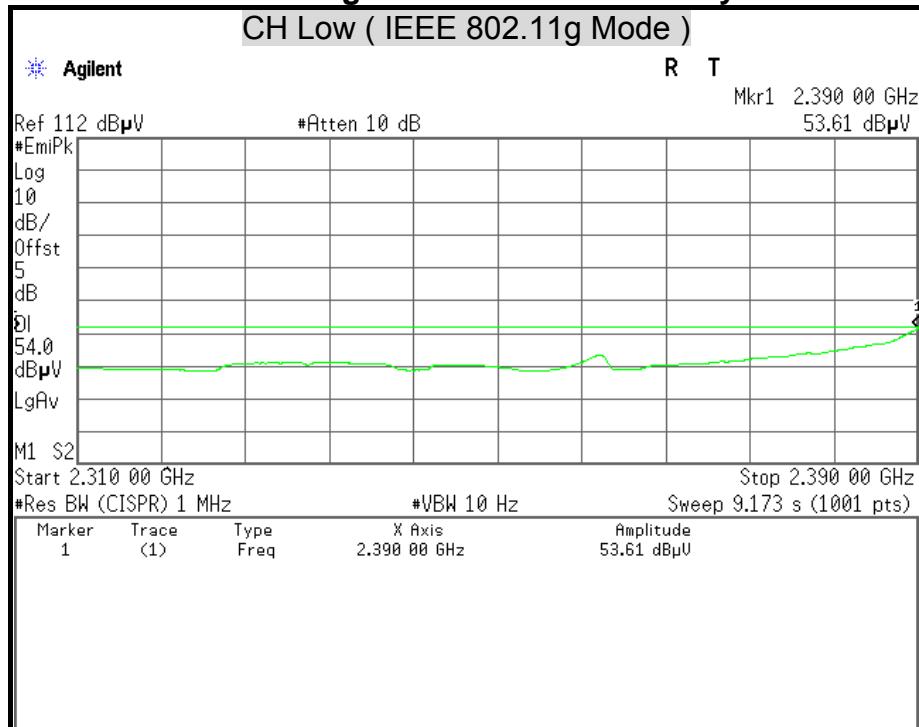
Polarity : Horizontal

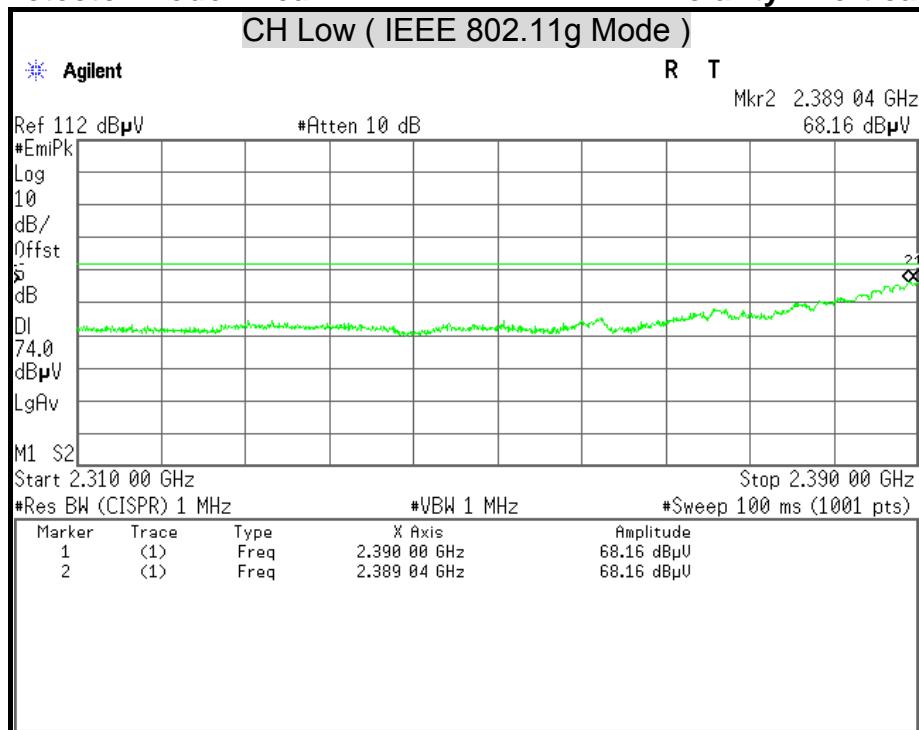
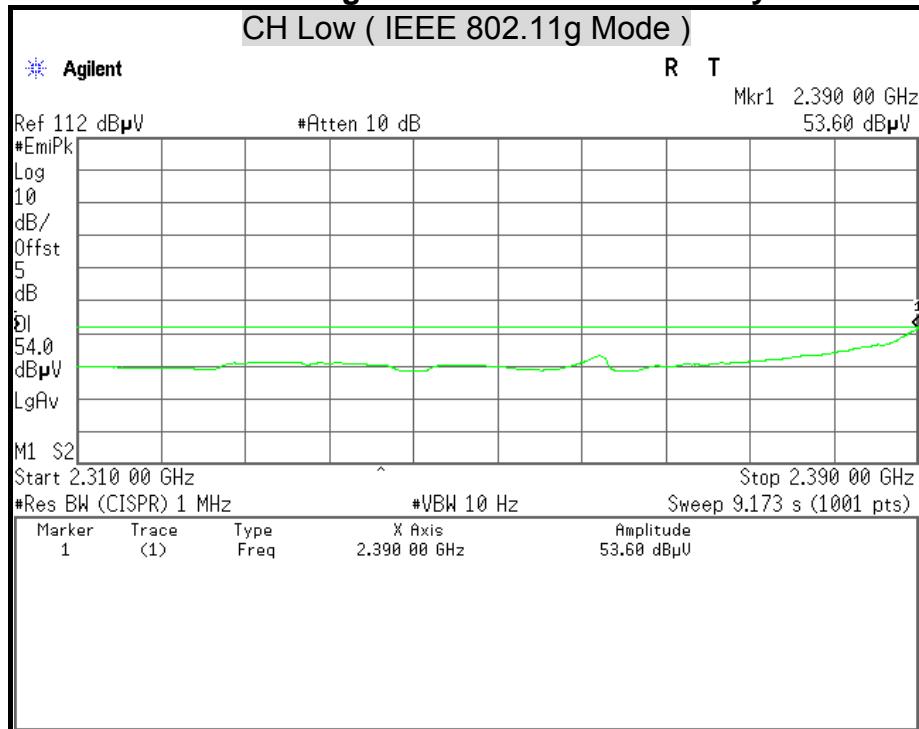


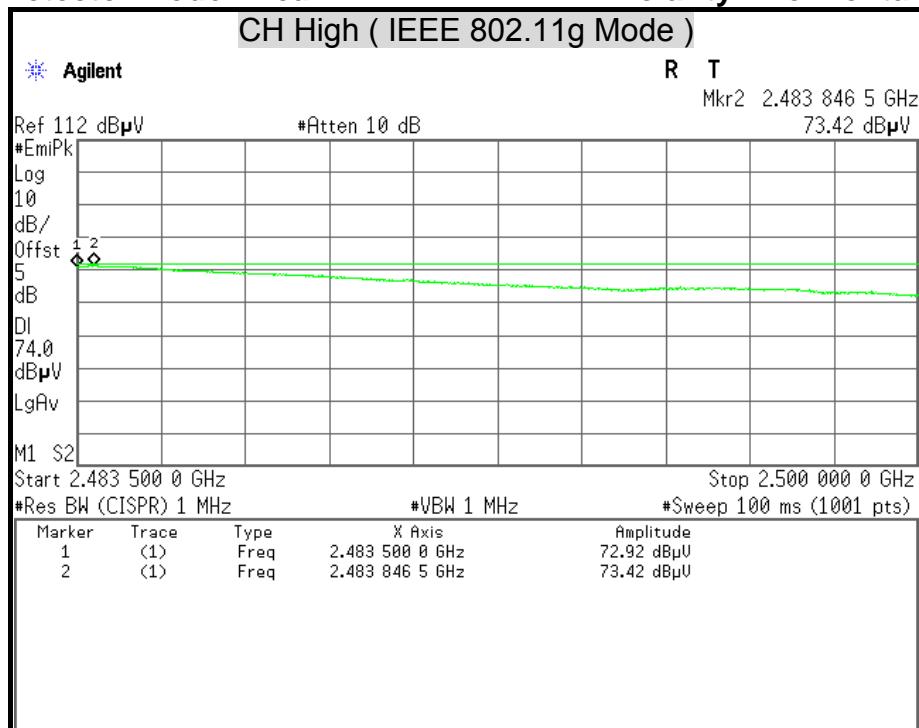
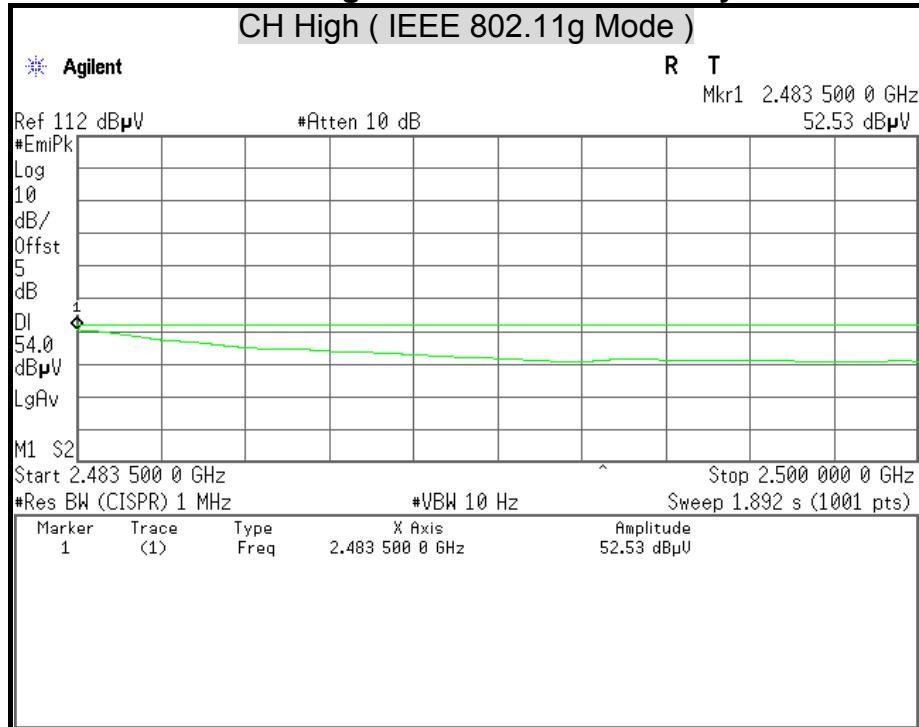
**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

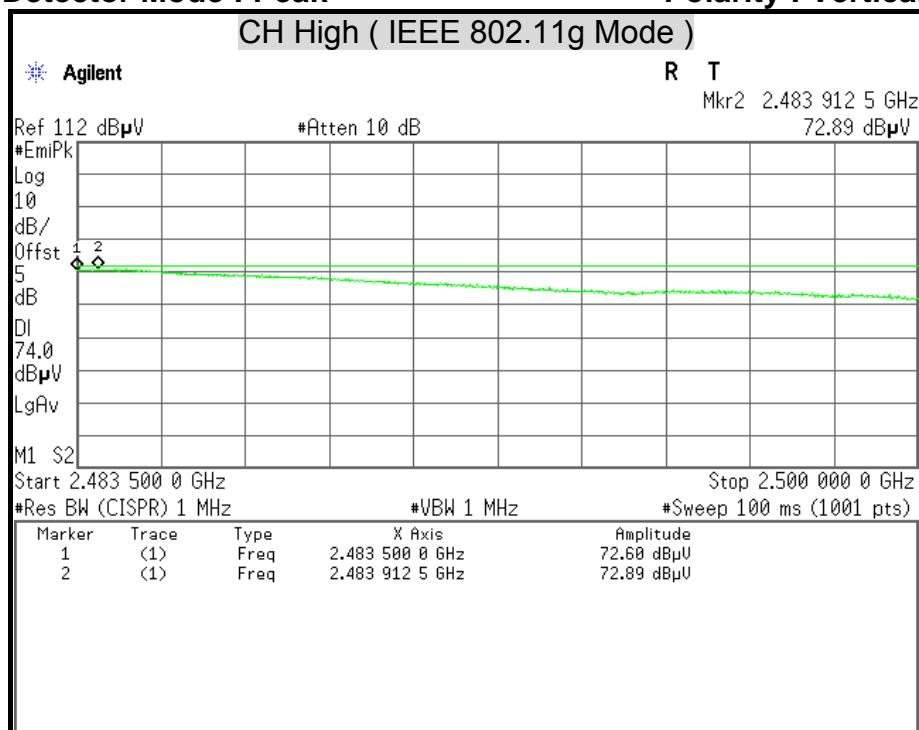
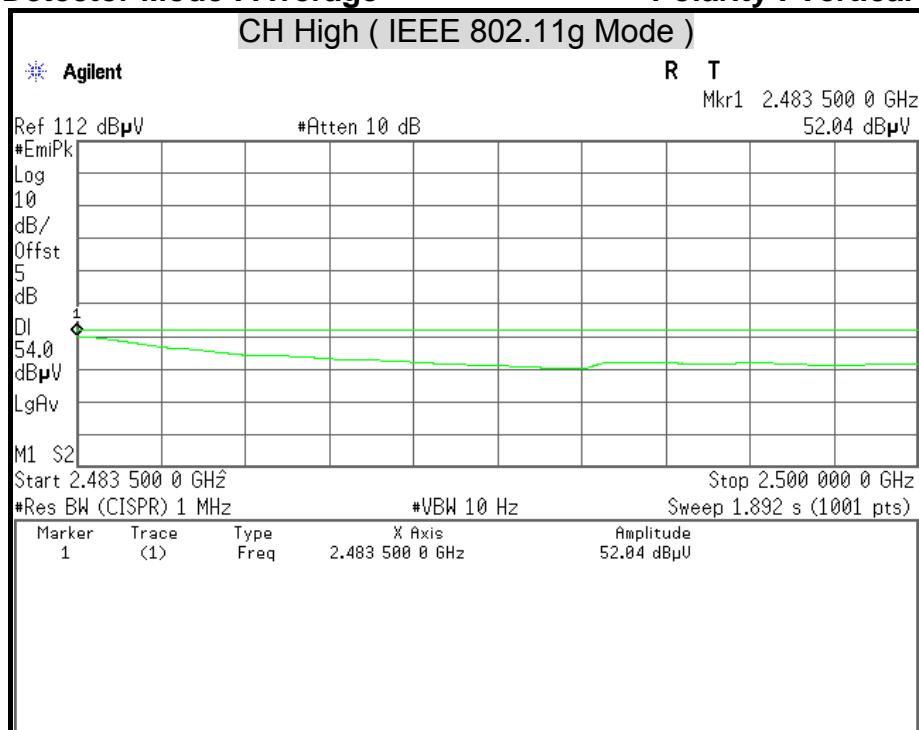
**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

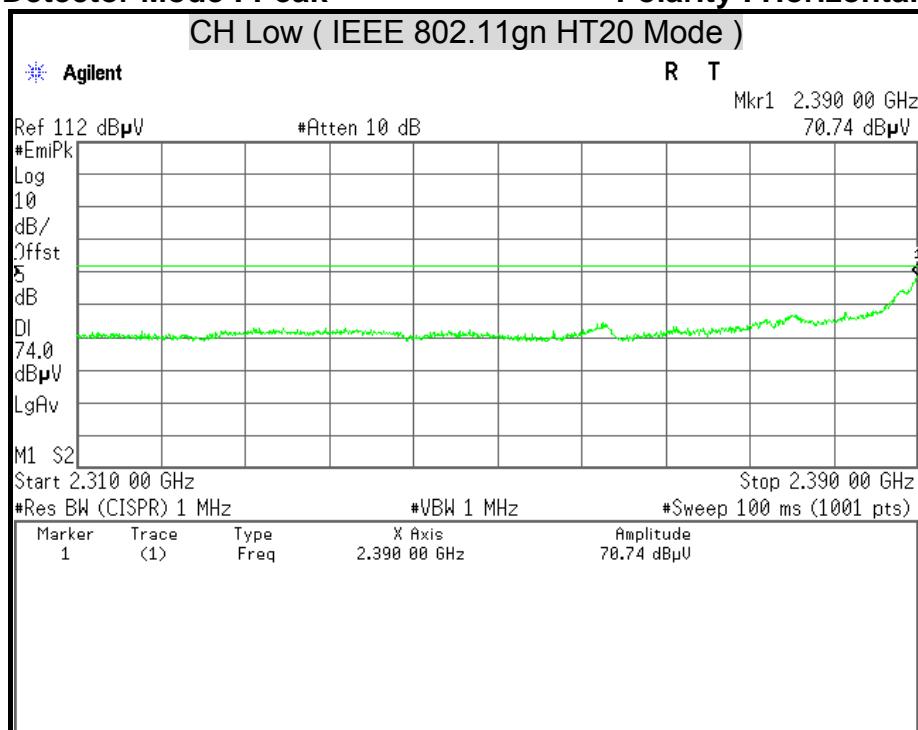
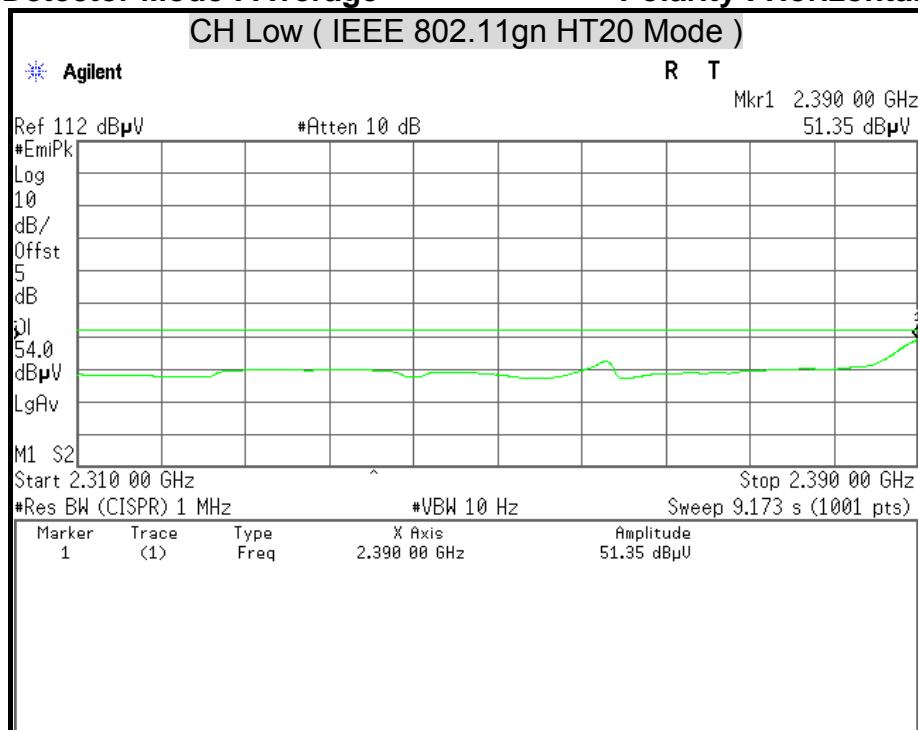
**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

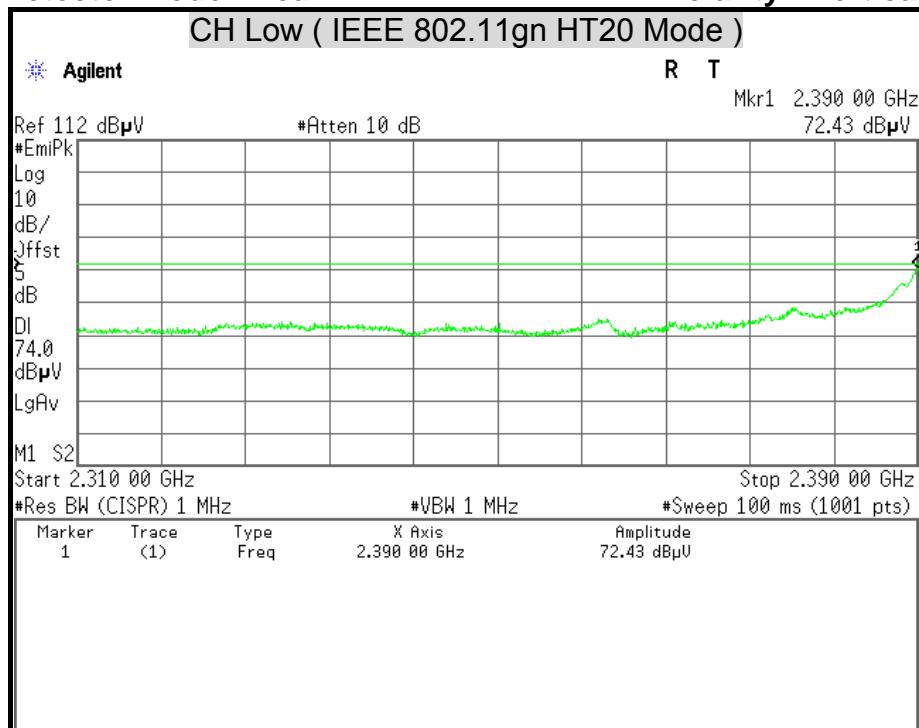
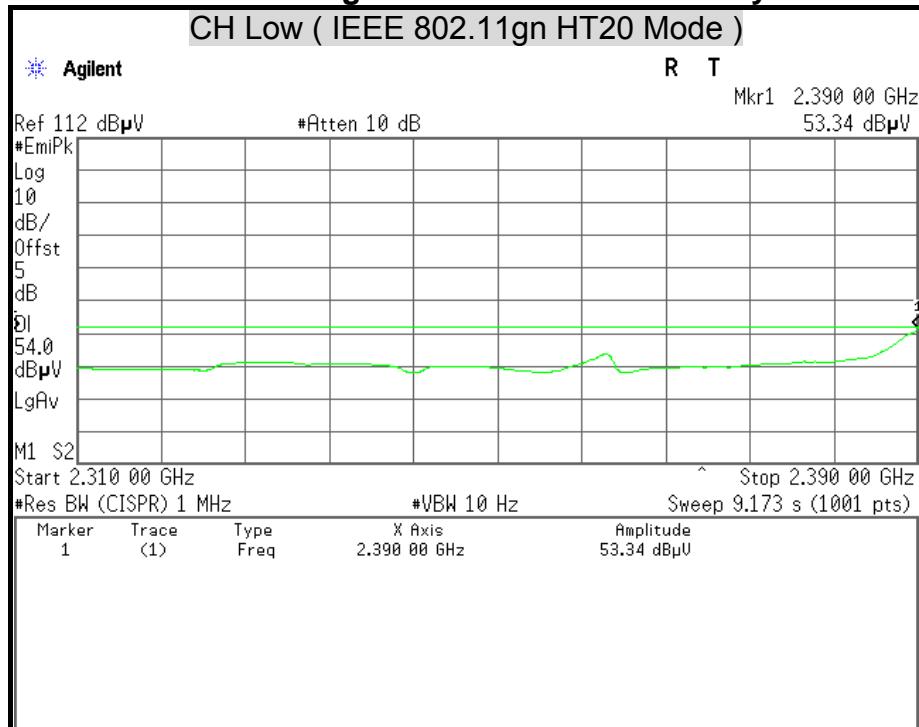
**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

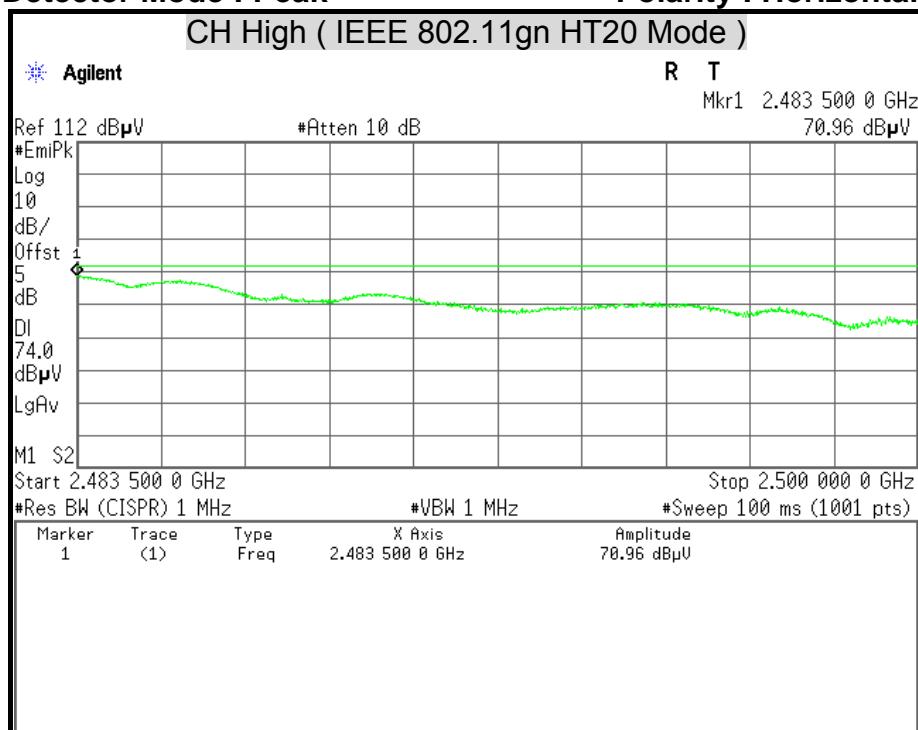
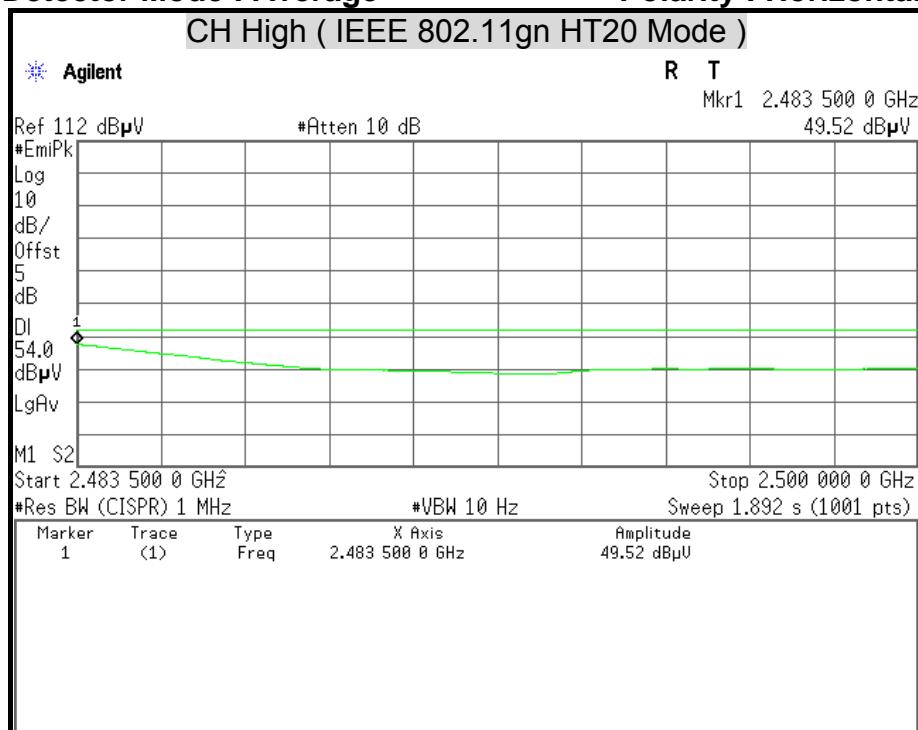
**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

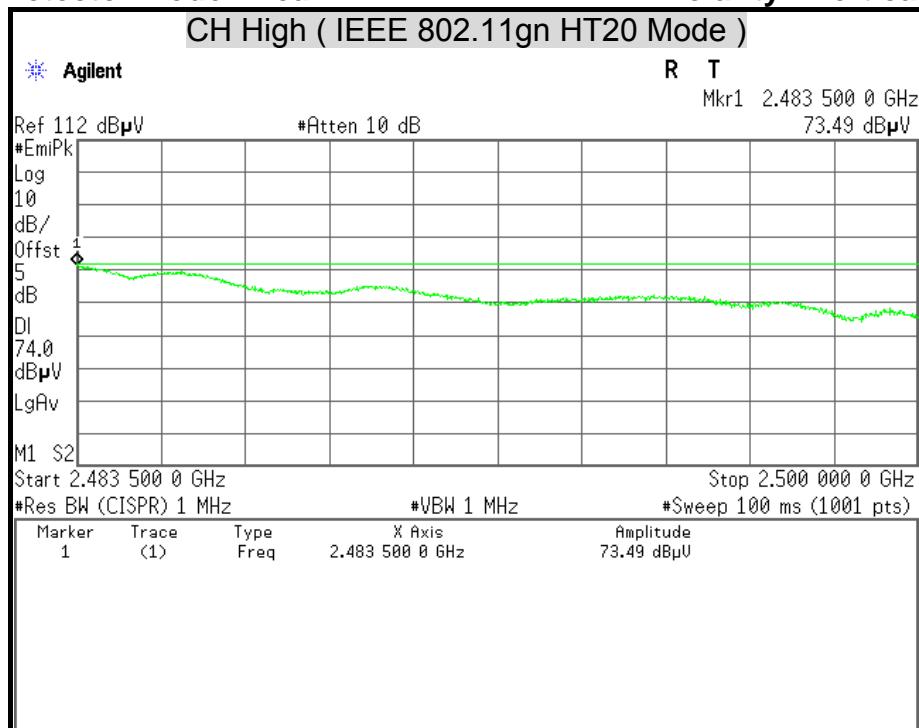
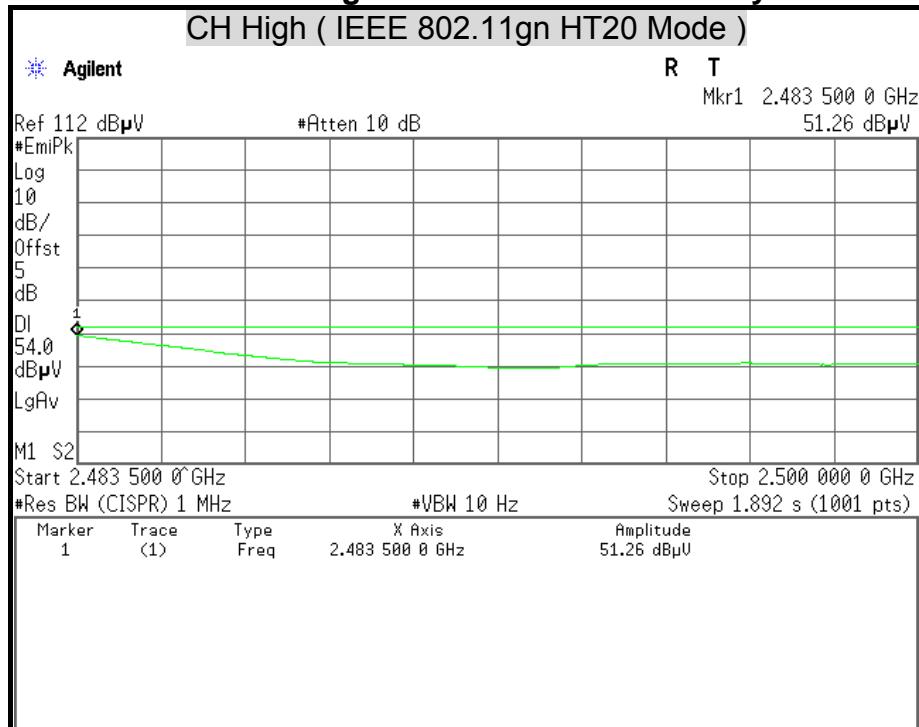
**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

**Detector Mode : Peak****Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)

Agilent

R T

Mkr2 2.385 84 GHz
69.80 dB μ VRef 112 dB μ V

#Atten 10 dB

#EmiPk

Log

10

dB/

Offst

5

dB

DI

74.0

dB μ V

LgAv

M1 S2

Start 2.310 00 GHz

Stop 2.390 00 GHz

#Res BW (CISPR) 1 MHz

#VBW 1 MHz

#Sweep 100 ms (1001 pts)

Marker

1

2

(1)

(1)

Trace

Freq

Freq

Type

X Axis

2.390 00 GHz

2.385 84 GHz

Amplitude

65.98 dB μ V69.80 dB μ V**Detector Mode : Average****Polarity : Horizontal**

CH Low (IEEE 802.11gn HT40 Mode)

Agilent

R T

Mkr1 2.390 00 GHz

51.47 dB μ VRef 112 dB μ V

#Atten 10 dB

#EmiPk

Log

10

dB/

Offst

5

dB

DI

54.0

dB μ V

LgAv

M1 S2

Start 2.310 00 GHz

Stop 2.390 00 GHz

#Res BW (CISPR) 1 MHz

#VBW 10 Hz

Sweep 9.173 s (1001 pts)

Marker

1

(1)

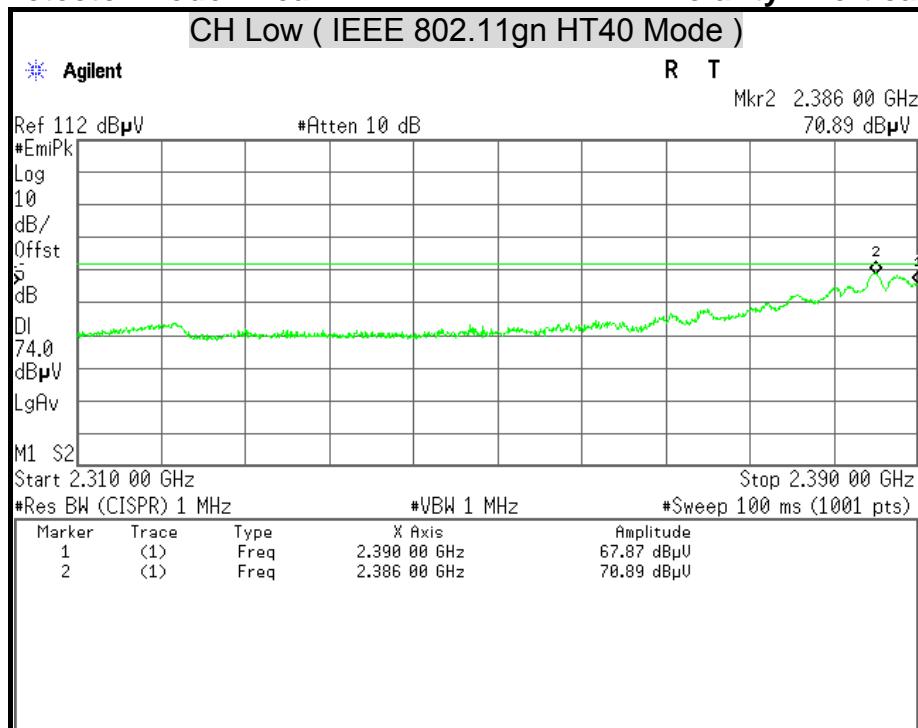
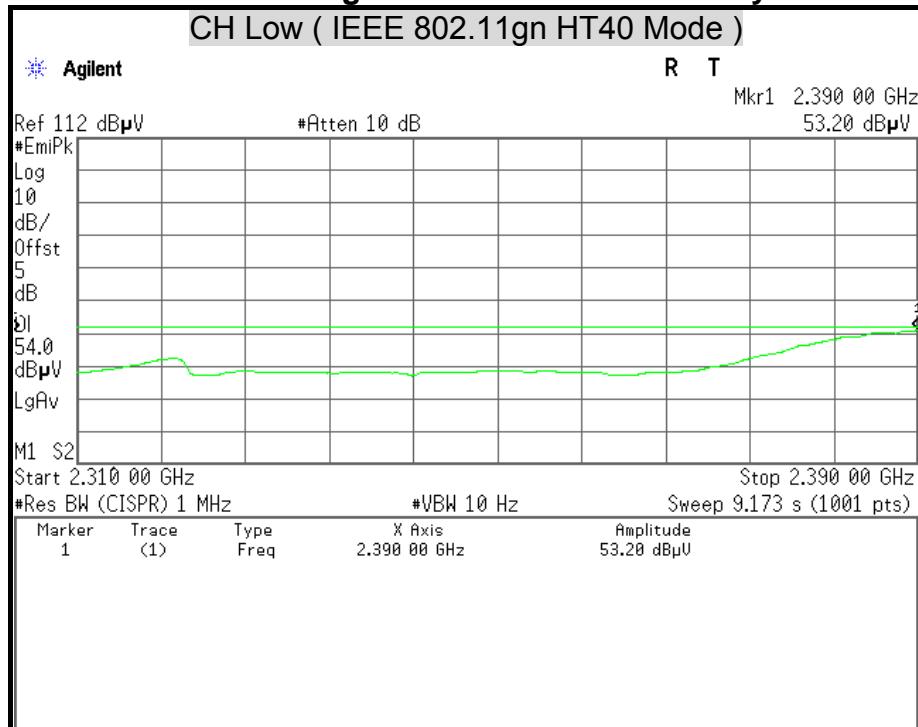
Trace

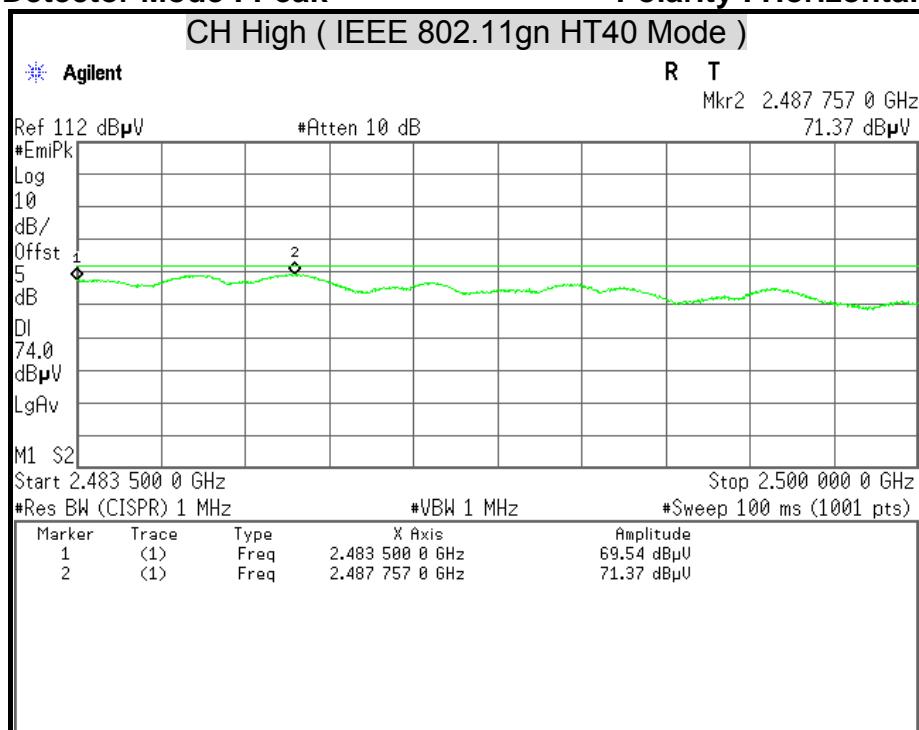
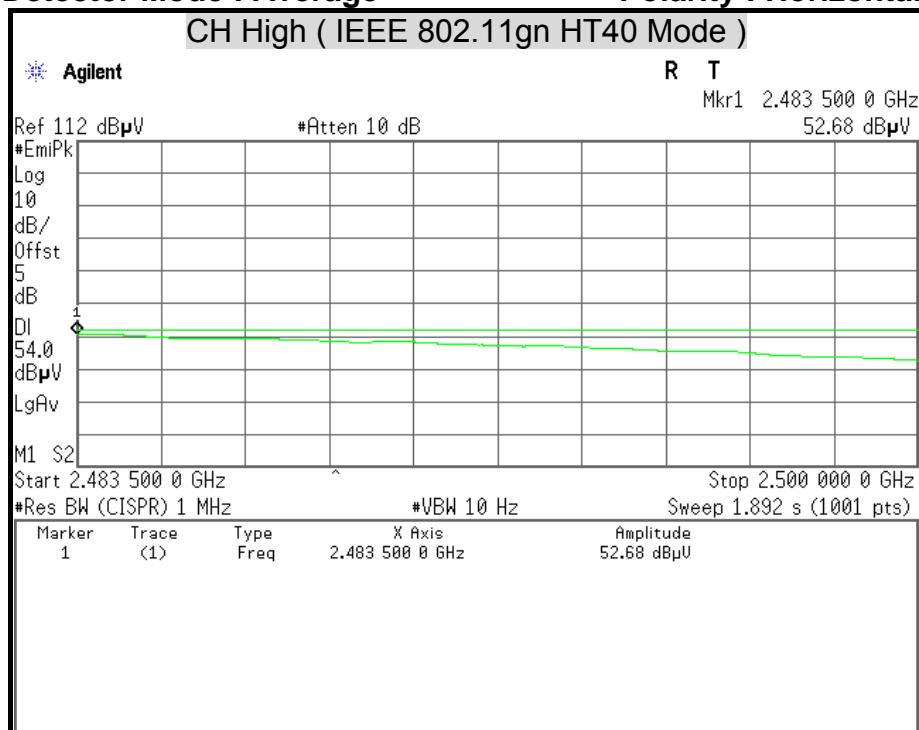
Freq

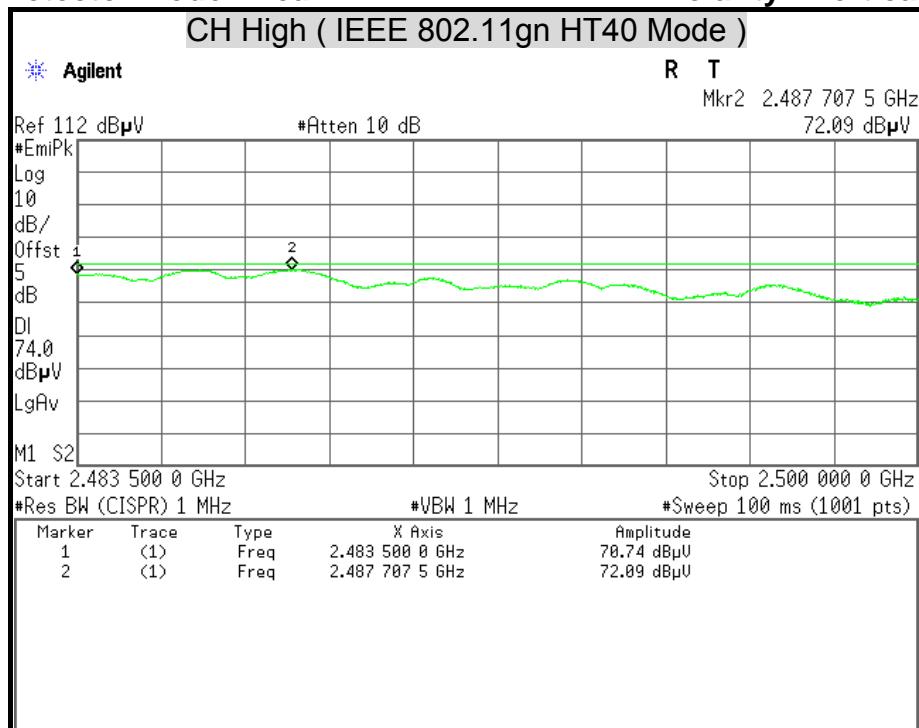
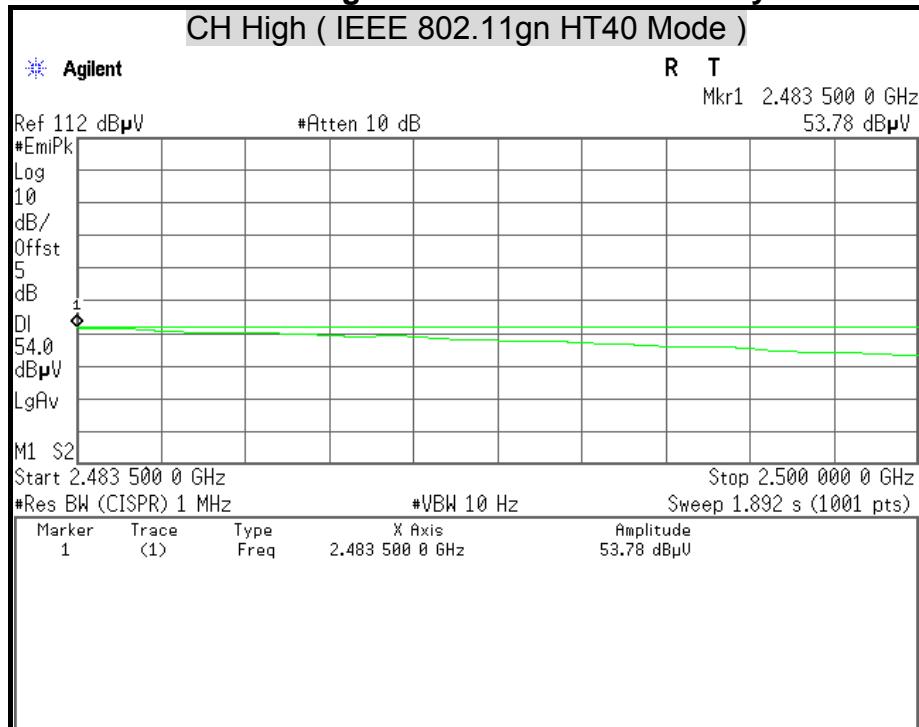
X Axis

2.390 00 GHz

51.47 dB μ V

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

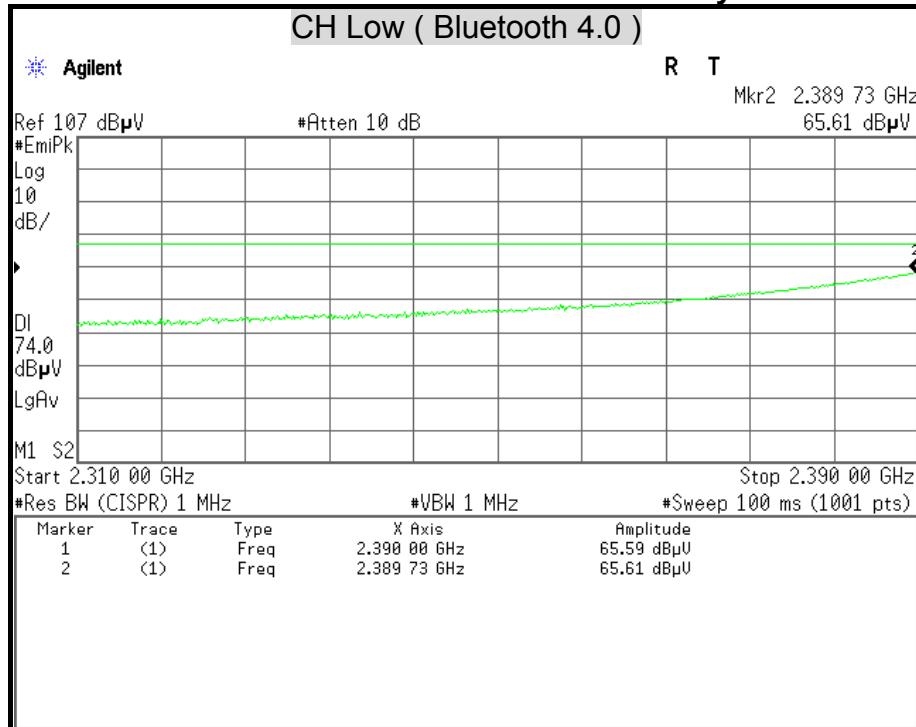
**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**



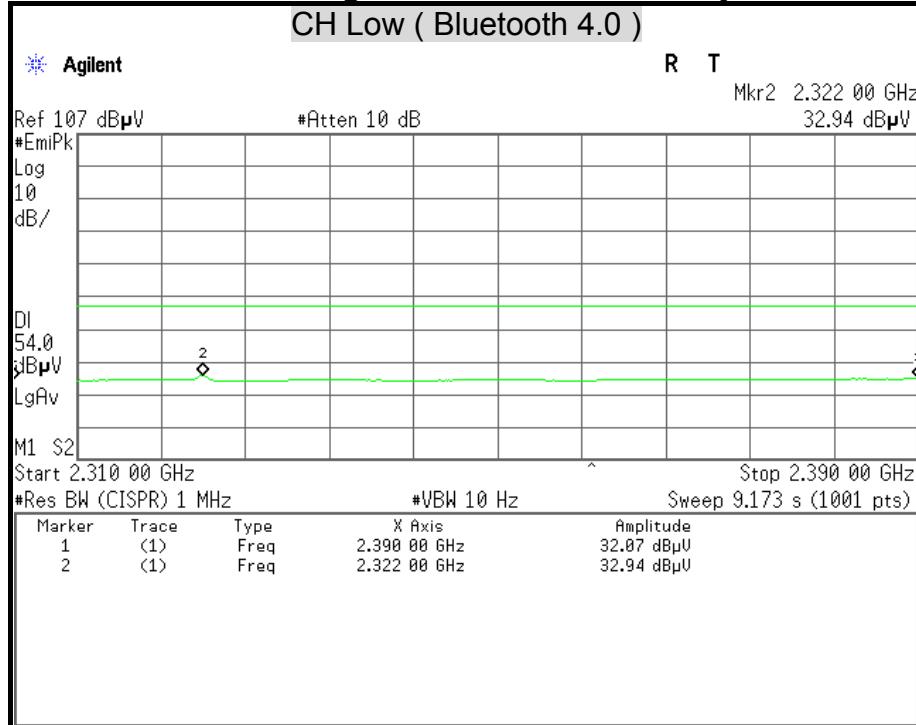
Detector Mode : Peak

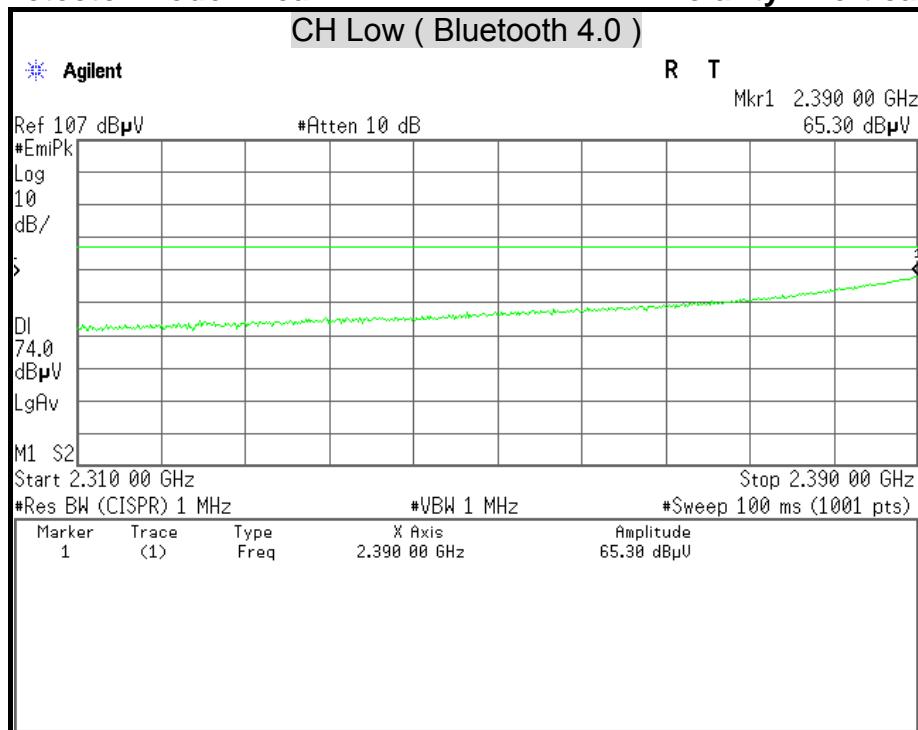
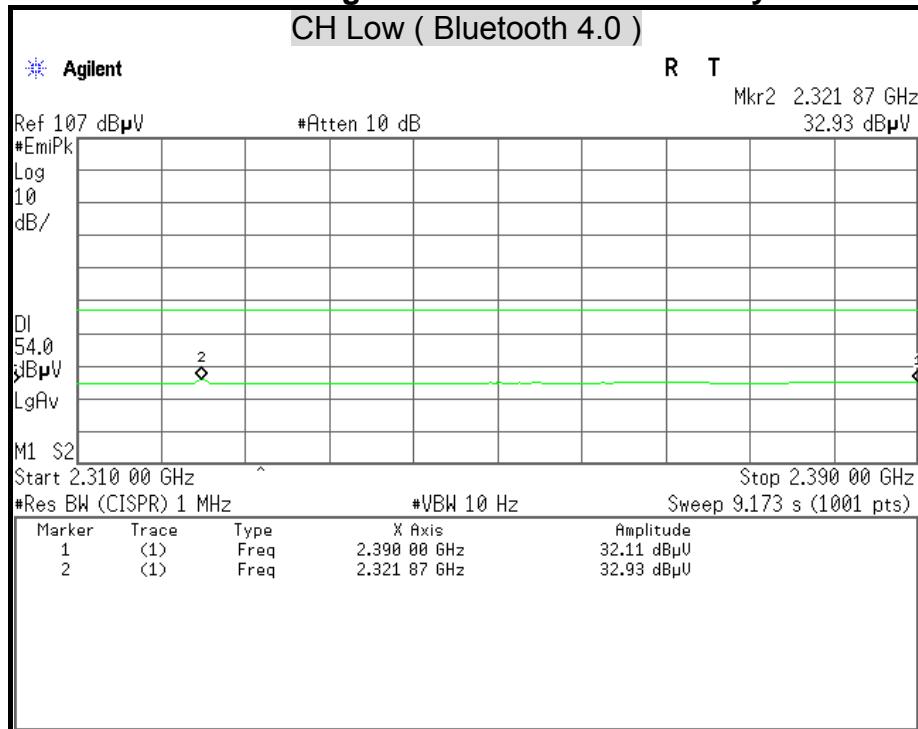
Polarity : Horizontal

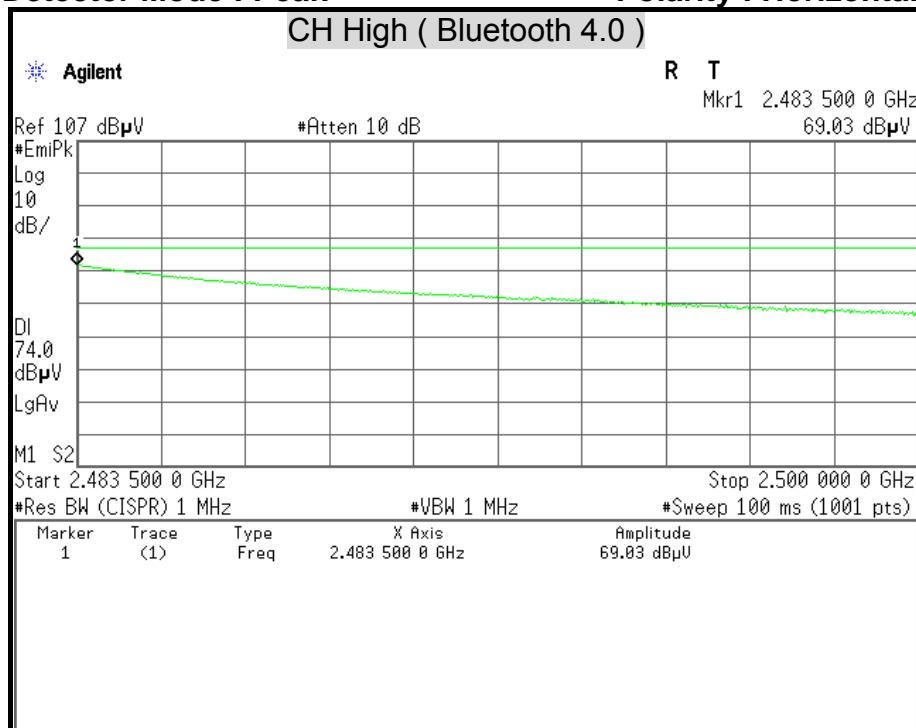
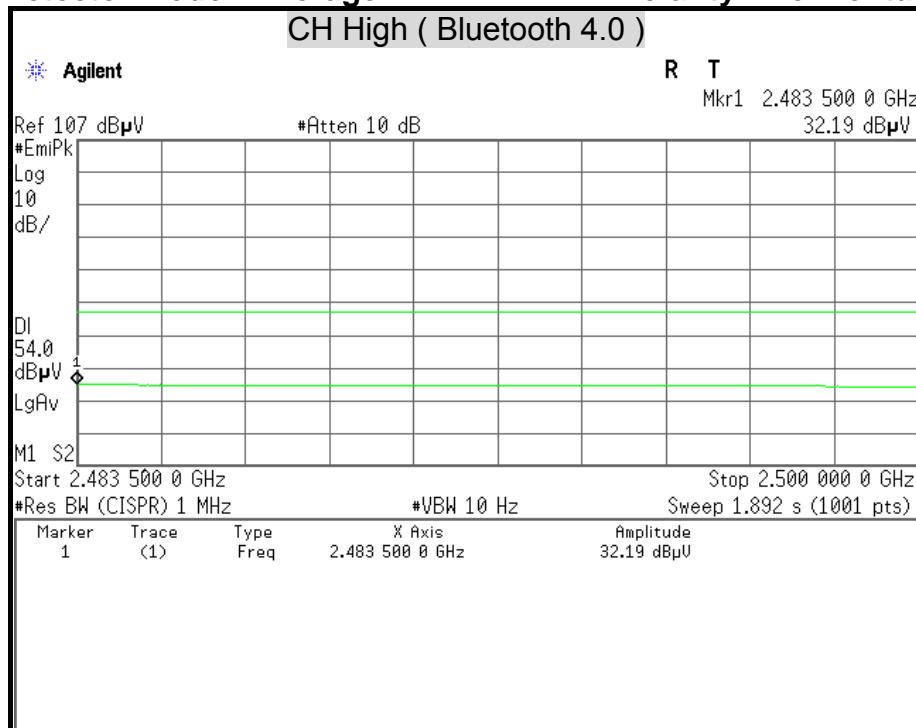


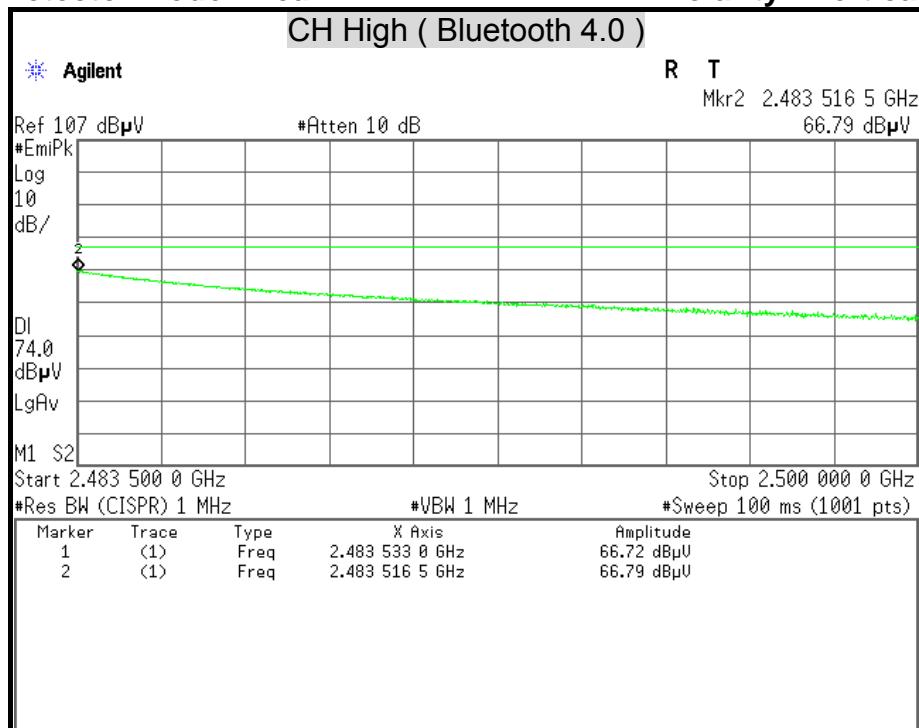
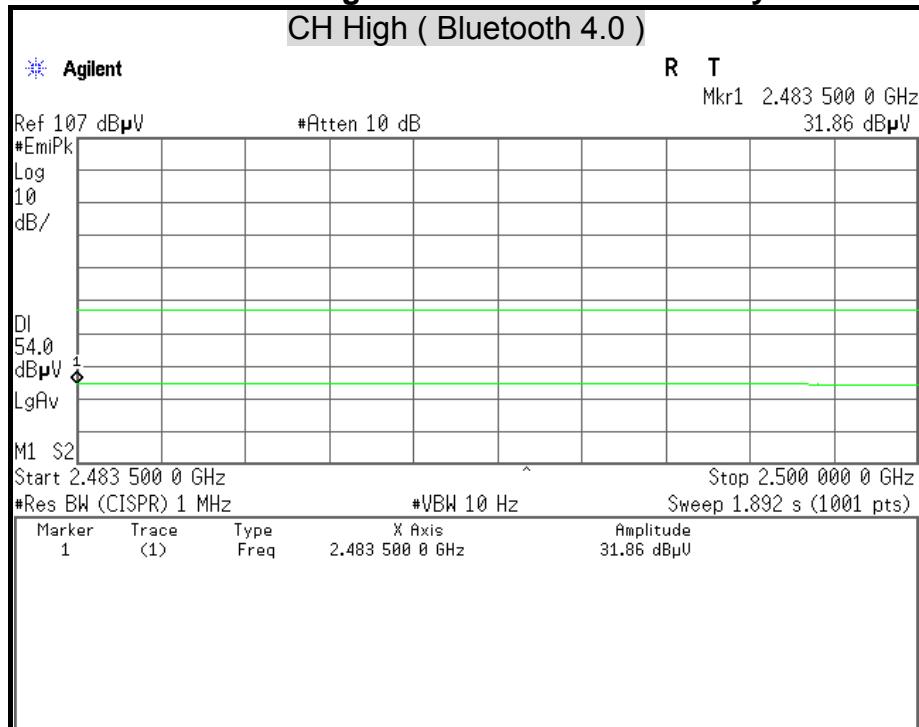
Detector Mode : Average

Polarity : Horizontal



**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**

**Detector Mode : Peak****Polarity : Horizontal****Detector Mode : Average****Polarity : Horizontal**

**Detector Mode : Peak****Polarity : Vertical****Detector Mode : Average****Polarity : Vertical**



7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

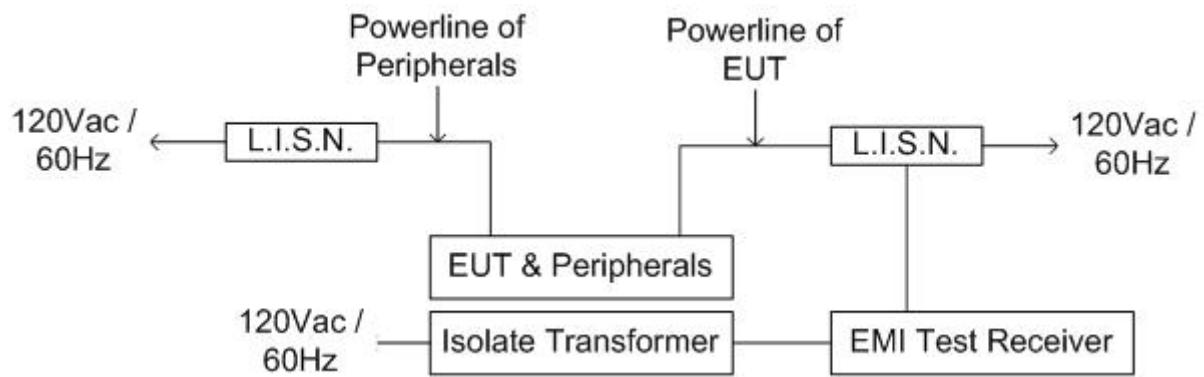
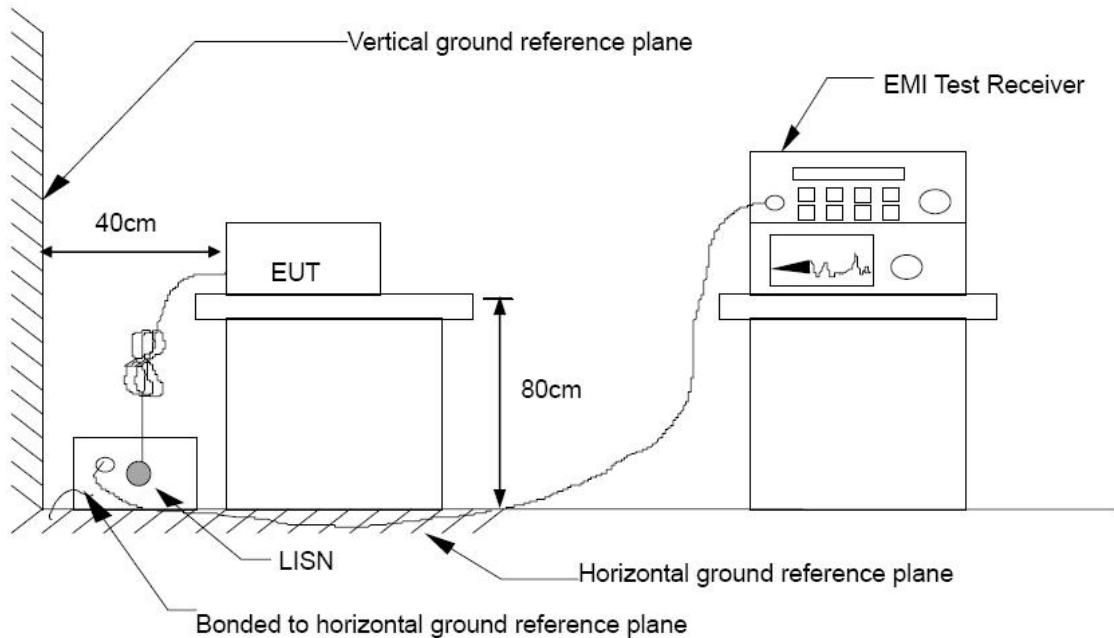
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/11/2014
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/10/2015
EMI Receiver	ROHDE & SCHWARZ	ESHS 30	838550/003	11/07/2014
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100117	07/01/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

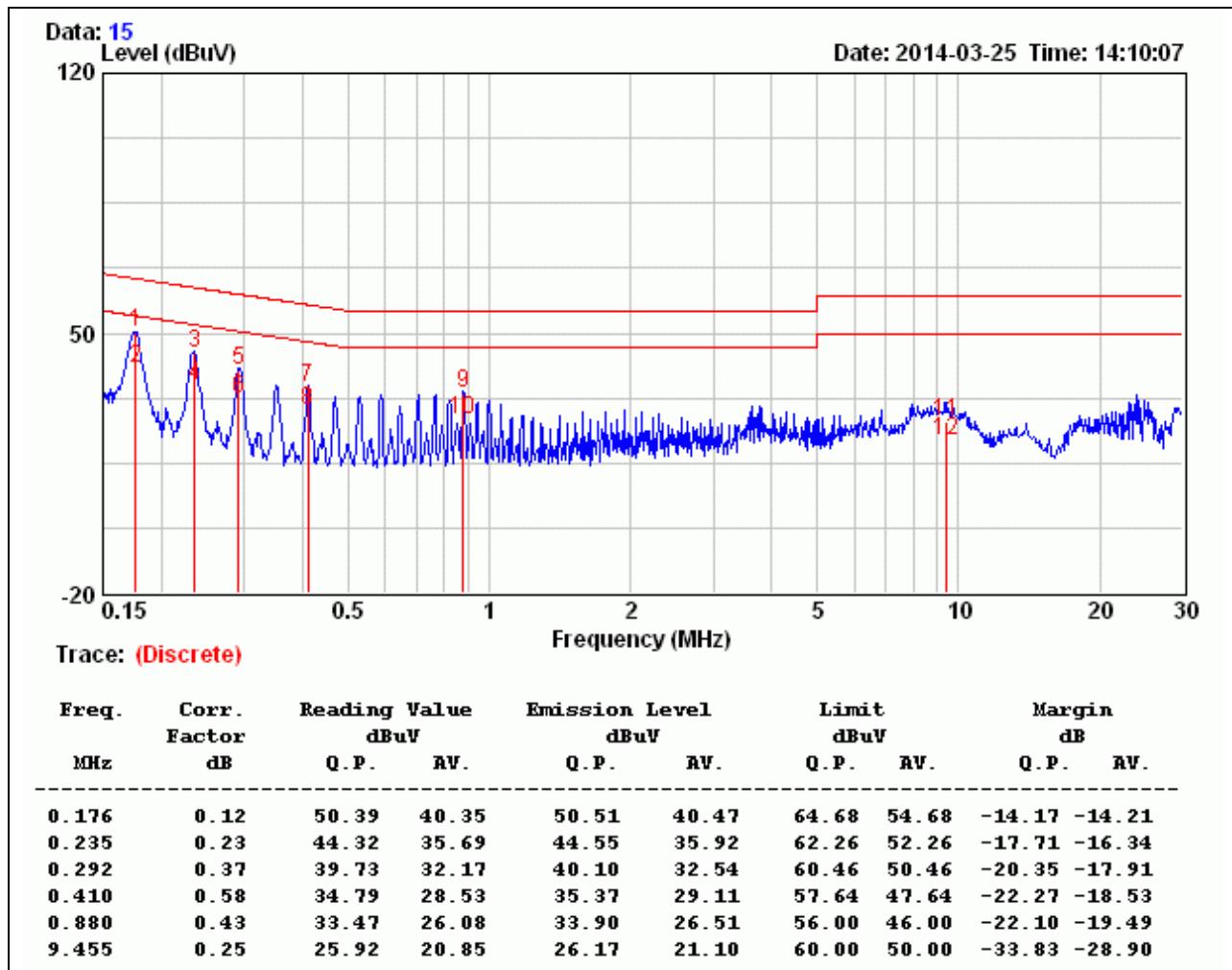
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (AVCT / 105-H-1508)	Test Date	2014/03/25
Test Mode	Normal Operating / Elevation of 75°	Temp. & Humidity	22°C, 57%

LINE



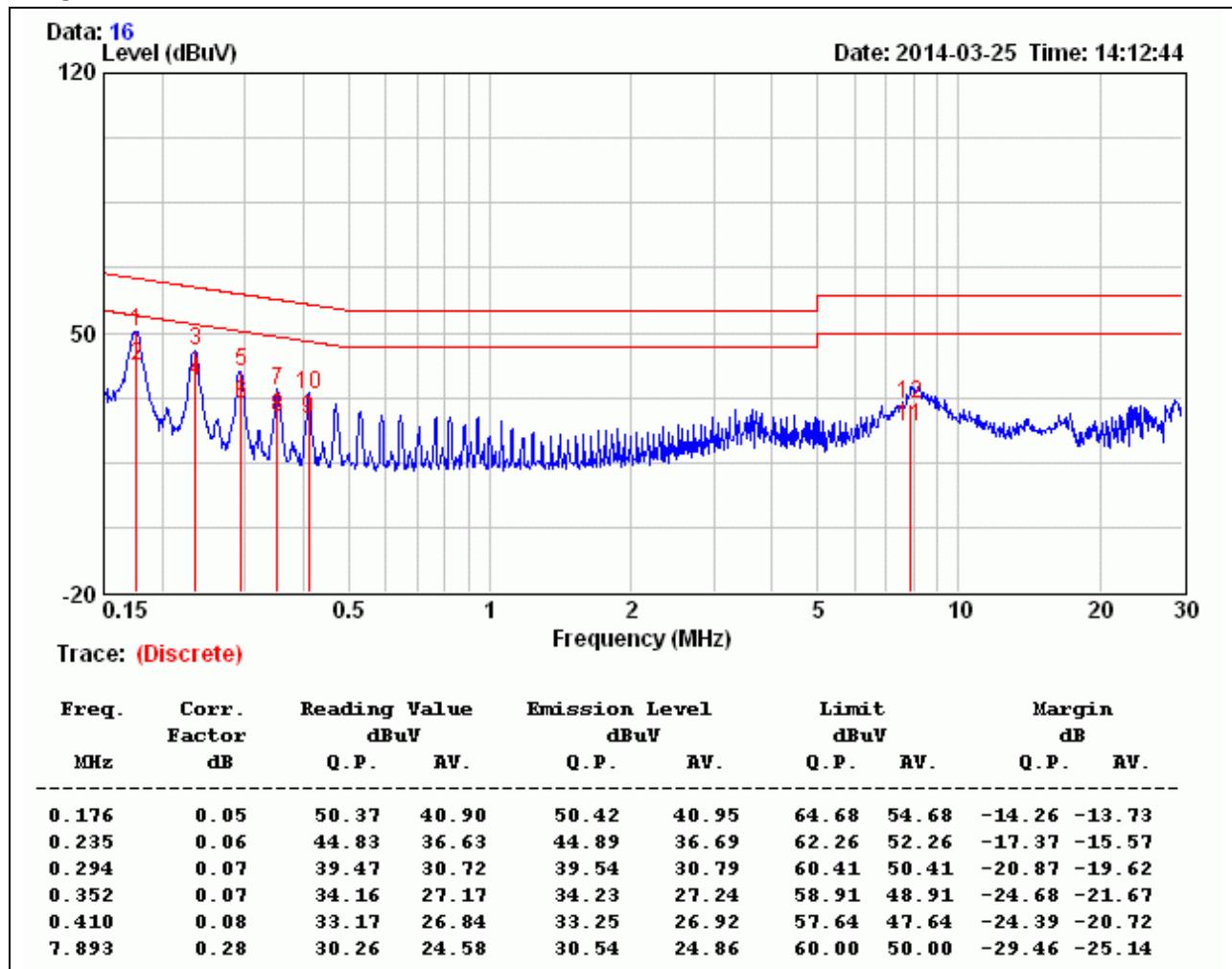
Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value



Product Name	AIO Panel	Test By	Alan Wu
Test Model	DMS-SA1300-A1E (AVCT / 105-H-1508)	Test Date	2014/03/25
Test Mode	Normal Operating / Elevation of 75°	Temp. & Humidity	22°C, 57%

NEUTRAL



Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value