TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart C (Section 15.247)**
Report No.:	RFBEDV-WTW-P23080241-3
FCC ID:	BEJNT-16T90SP
Product:	Notebook Computer
Brand:	LG or LG
Model No.:	16T90SP
Series Model:	16T90SP** ,16TD90SP**,16TG90SP**,16TB90SP** Remark "*" can be 0 to 9 or A to Z or dash or blank (Refer to item 3.1 for the more details)
Received Date:	2023/8/10
Test Date:	2023/9/28 ~ 2023/10/30
Issued Date:	2023/11/27
Applicant:	LG Electronics USA, Inc.
Address:	111 Sylvan Avenue North Bulding Englewood Cliffs New Jerssy United States
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location (1):	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
Test Location (2):	No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan
FCC Registration / Designation Number:	(1) 788550 / TW0003 (2) 281270 / TW0032

Approved by: Jeremy Lin , **Date:** 2023/11/27

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P23080241-3	Original Release	2023/11/27

1 Certificate

Product:	Notebook Computer
Brand:	LG or LG
Test Model:	16T90SP
Series Model:	16T90SP** ,16TD90SP**,16TG90SP**,16TB90SP** Remark "*" can be 0 to 9 or A to Z or dash or blank (Refer to item 3.1 for the more details)
Sample Status:	DV Sample
Applicant:	LG Electronics USA, Inc.
Test Date:	2023/9/28 ~ 2023/10/30
Standard:	47 CFR FCC Part 15, Subpart C (Section 15.247)
Measurement procedure:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -12.12 dB at 0.77400 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.6 dB at 31.94 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	Notebook Computer
Brand	LG or LG
Test Model	16T90SP
Series Model	16T90SP** ,16TD90SP**,16TG90SP**,16TB90SP** Remark "*" can be 0 to 9 or A to Z or dash or blank
Model Difference	Refer to Note
Status of EUT	DV Sample
Power Supply Rating	15.52Vdc from battery 5.0Vdc or 9.0Vdc or 15.0Vdc or 20.0Vdc from adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), 802.11ax (HE20): 13 802.11n (HT40), 802.11ax (HE40): 9
Output Power	151.076 mW (21.79 dBm)

Note:

1. The model is listed as below.

Brand	Model Name	Remark
LG or LG	16T90SP	Main test model
	16T90SP**	"*" can be 0 to 9 or A to Z or dash or blank, for marketing purposes only
	16TD90SP**	
	16TG90SP**	
	16TB90SP**	

2. The EUT contains following accessory devices.

BT/WLAN Module	Brand	Intel
	Model	AX211D2W
Battery	Brand	LG or LG
	Model	LB3122MM
	Power Rating	15.52Vdc, Typical capacity: 4963mAh/77Wh, Rated Capacity: 4733mAh/73.46Wh
Active Stylus Pen	Brand	LGE
	Model	PEW7
AC Adapter	Brand	LG or LG
	Model	LP65WFC20P-NJ
	Part Number	N/A
	AC Input	100-240V~, 50-60Hz, 1.6A
	DC Output	(PDO) 5.0Vdc, 3.0A, 15.0W or 9.0Vdc, 3.0A, 27.0W or 15.0Vdc, 3.0A, 45.0W or 20.0Vdc, 3.25A, 65.0W (PPS) 5.0V-20.0Vdc, 3.25A, Max 65.0W
Type C to Type C cable	Brand	Luxshare
	Model	L1LUC022-CS-H
	Specification	1.95mm

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

NB Mode							
Antenna Type	PIFA						
Connector Type	I-PEX						
Manufacturer	Parts Number	Antenna Gain (dBi)					
		BT	2400-2483.5MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz
AWAN	WLAN Main Antenna: AYF6Y-200008 (1415-0ADV000) WLAN Aux Antenna: AYF6Y-200008 (1415-0ADV000)	Aux.: 3.02	Main: 2.87 Aux.: 3.02	Main: 2.19 Aux.: 1.40	Main: 1.92 Aux.: 1.96	Main: 2.07 Aux.: 2.79	Main: 2.40 Aux.: 2.79
INPAQ	WLAN Main Antenna: 1415-0ADT000 (WA-F-LELE-04-003) WLAN Aux Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Aux.: 2.91	Main: 2.84 Aux.: 2.91	Main: 2.13 Aux.: 1.33	Main: 1.83 Aux.: 1.93	Main: 1.99 Aux.: 2.54	Main: 2.12 Aux.: 2.49

TB Mode							
Antenna Type	PIFA						
Connector Type	I-PEX						
Manufacturer	Parts Number	Antenna Gain (dBi)					
		BT	2400-2483.5MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz
AWAN	WLAN Main Antenna: AYF6Y-200008 (1415-0ADV000) WLAN Aux Antenna: AYF6Y-200008 (1415-0ADV000)	Aux.: -1.69	Main: -1.81 Aux.: -1.69	Main: 1.99 Aux.: 0.13	Main: 2.51 Aux.: -0.13	Main: 3.04 Aux.: 1.32	Main: 3.04 Aux.: 1.32
INPAQ	WLAN Main Antenna: 1415-0ADT000 (WA-F-LELE-04-003) WLAN Aux Antenna: 1415-0ADT000 (WA-F-LELE-04-003)	Aux.: -1.75	Main: -1.89 Aux.: -1.75	Main: 1.85 Aux.: 0.11	Main: 2.39 Aux.: -0.19	Main: 2.86 Aux.: 1.25	Main: 2.65 Aux.: 1.27

*The maximun gain were for the final tests. Chain 0 = Aux. antenna, Chain 1 = Main antenna.

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1TX Diversity	1RX
802.11g	1TX Diversity	1RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (RU26/52/106/242)	2TX	2RX

3.3 Channel List

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

9 channels are provided for 802.11n (HT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis for tablet mode and Laptop mode. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	Laptop mode

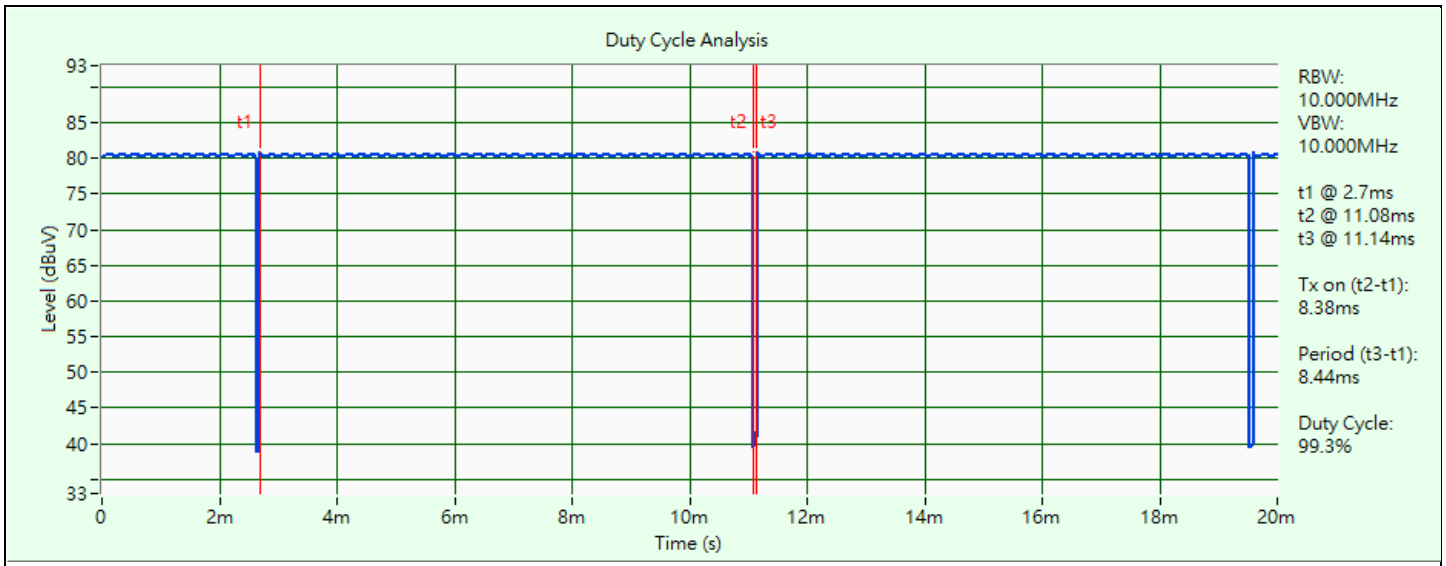
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	Remark
RF Output Power	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s	Chain 0/Chain 1
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s	Chain 0/Chain 1
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	HT8	2TX
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	HT8	2TX
	802.11ax (HE20) 26-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 52-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 106-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) Full RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE40) 242-tone RU	3, 6, 9, 10, 11	BPSK	HE0	2TX
	802.11ax (HE40) Full RU	3, 6, 9, 10, 11	BPSK	HE0	2TX
Power Spectral Density / 6 dB Bandwidth	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s	Chain 0/Chain 1
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s	Chain 0/Chain 1
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	HT8	2TX
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	HT8	2TX
	802.11ax (HE20) 26-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 52-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 106-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) Full RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE40) 242-tone RU	3, 6, 9, 10, 11	BPSK	HE0	2TX
	802.11ax (HE40) Full RU	3, 6, 9, 10, 11	BPSK	HE0	2TX

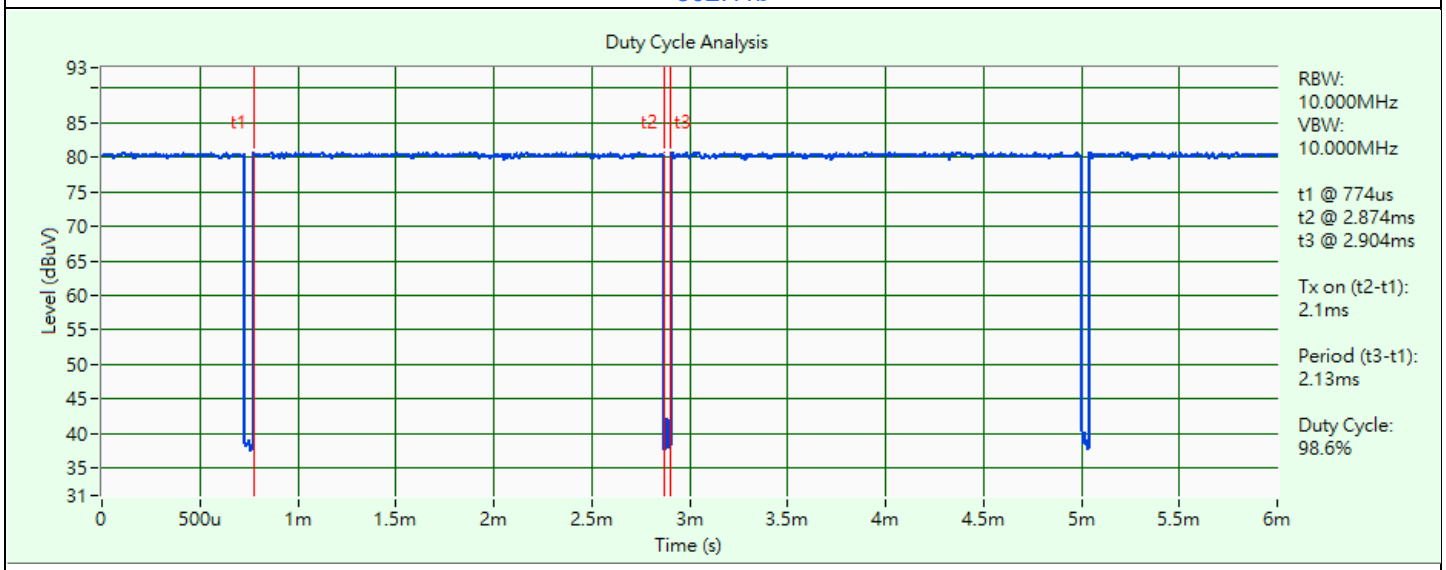
Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	Remark
Conducted Out of Band Emissions	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s	Chain 0/Chain 1
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s	Chain 0/Chain 1
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	HT8	2TX
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	HT8	2TX
	802.11ax (HE20) Full RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE40) Full RU	3, 6, 9, 10, 11	BPSK	HE0	2TX
AC Power Conducted Emissions	802.11ax (HE40) Full RU	9	BPSK	HE0	2TX
Unwanted Emissions below 1 GHz	802.11ax (HE40) Full RU	9	BPSK	HE0	2TX
Unwanted Emissions above 1 GHz	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s	Chain 0/Chain 1
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s	Chain 0/Chain 1
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	HT8	2TX
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	HT8	2TX
	802.11ax (HE20) 26-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 52-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) 106-tone RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE20) Full RU	1, 6, 11, 12, 13	BPSK	HE0	2TX
	802.11ax (HE40) RU242	3, 6, 9, 10, 11	BPSK	HE0	2TX
	802.11ax (HE40) Full RU	3, 6, 9, 10, 11	BPSK	HE0	2TX

3.5 Duty Cycle of Test Signal

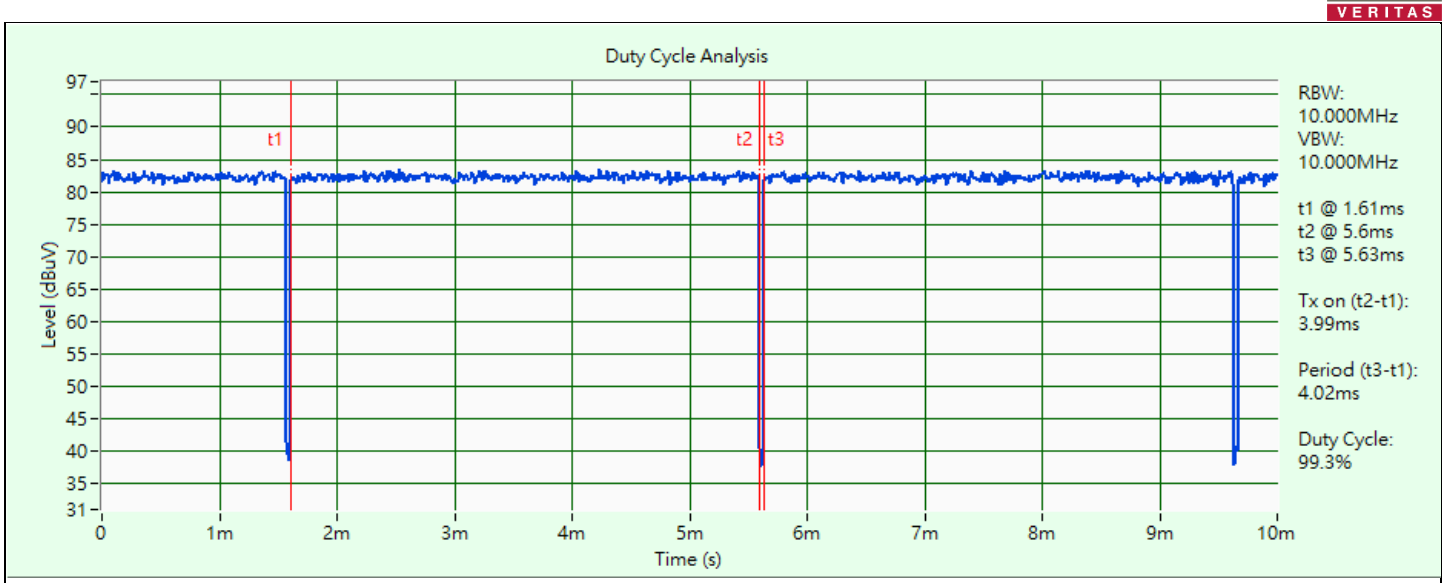
802.11b: Duty cycle = 8.38 ms / 8.44 ms x 100% = 99.3%
802.11g: Duty cycle = 2.1 ms / 2.13 ms x 100% = 98.6%
802.11ax (HE20) Full RU: Duty cycle = 3.99 ms / 4.02 ms x 100% = 99.3%
802.11ax (HE40) Full RU: Duty cycle = 4 ms / 4.03 ms x 100% = 99.3%



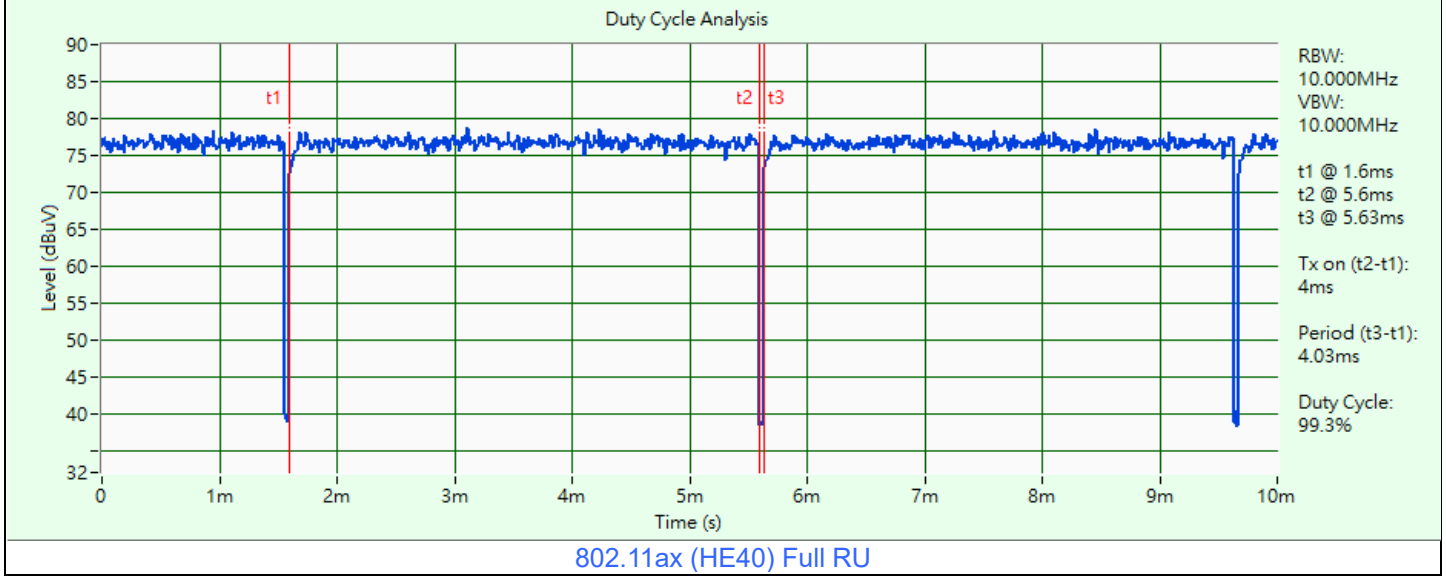
802.11b



802.11g



802.11ax (HE20) Full RU

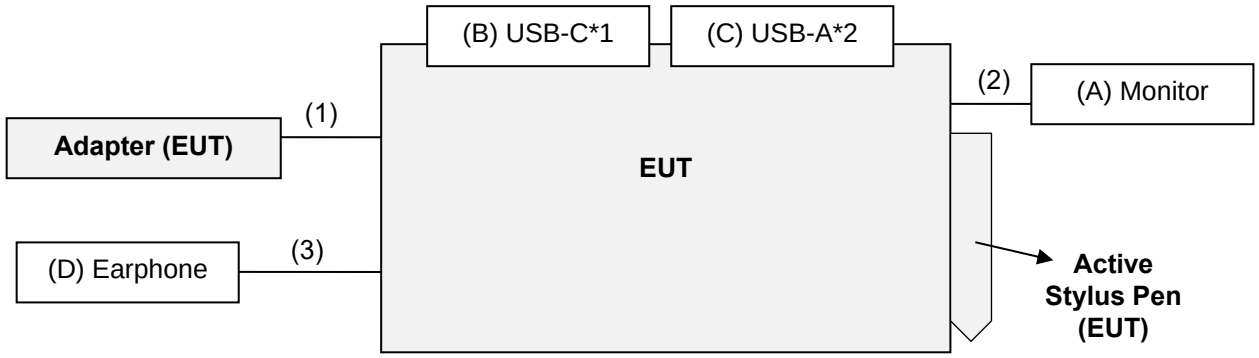


802.11ax (HE40) Full RU

3.6 Test Program Used and Operation Descriptions

Controlling software DRTU Version 04342.22.230.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Monitor	Dell	A14S2421HSXmTW	CN-01KWFW-WSL00-24C-711B	N/A	Provided by Lab
B.	USB-C*1	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C.	USB-A*2	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D.	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab

No.	Cable Descriptions	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Qty.)	Remark
1.	Type C to Type C cable	1	1.95	Yes	0	Accessory of EUT
2.	HDMI	1	1.8	Yes	0	Provided by Lab
3.	Earphone Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Wideband Power Sensor Keysight	N1923A	MY58020002	2023/1/18	2024/1/17
		MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/22

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/22 ~ 2023/10/30

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/10/22

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2022/11/17	2023/11/16
50 ohm terminal resistance	E1-011280	05	2022/11/21	2023/11/20
	E1-011311	09	2022/11/17	2023/11/16
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2022/11/9	2023/11/8
EMI Test Receiver R&S	ESR3	102783	2022/12/21	2023/12/20
Fixed Attenuator SGH	BNC10W10dB	PAD-COND2-01	2023/9/2	2024/9/1
LISN R&S	ESH2-Z5	100100	2023/3/7	2024/3/6
	ESH3-Z5	100312	2023/9/12	2024/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2023/9/2	2024/9/1
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2023/10/7

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2022/10/20	2023/10/19
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
Preamplifier EMCI	EMC330N	980782	2023/1/16	2024/1/15
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
	EMCCFD400-NM-NM-500	201233	2023/1/16	2024/1/15
	EMCCFD400-NM-NM-3000	201235	2023/1/16	2024/1/15
	EMCCFD400-NM-NM-9000	201236(with PAD)	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/10/5

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2022/12/12	2023/12/11
Horn Antenna RFSPIN	DRH18-E	210103A18E	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2022/11/13	2023/11/12
Preamplifier EMCI	EMC118A45SE	980808	2022/12/29	2023/12/28
	EMC184045SE	980788	2023/1/16	2024/1/15
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2023/1/16	2024/1/15
	EMC101G-KM-KM-3000	201257	2023/1/16	2024/1/15
	EMC101G-KM-KM-5000	201260	2023/1/16	2024/1/15
	EMC104-SM-SM-1000	210102	2023/1/16	2024/1/15
	EMC104-SM-SM-3000	201231	2023/1/16	2024/1/15
	EMC104-SM-SM-9000	201243	2023/1/16	2024/1/15
Signal & Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2023/9/28 ~ 2023/10/20

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

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

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

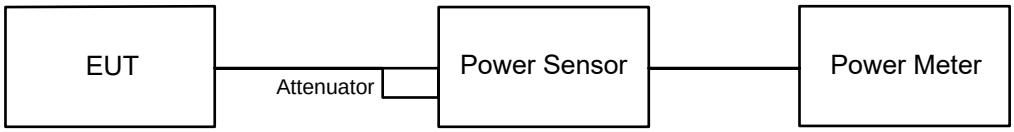
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



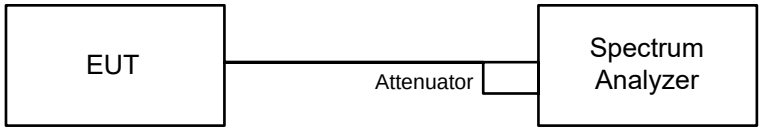
6.1.2 Test Procedure

Peak Power:
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:
Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup

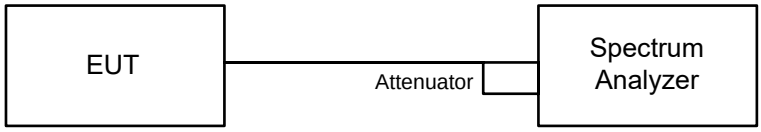


6.2.2 Test Procedure

a. Set analyzer center frequency to DTS channel center frequency.
b. Set the span to 1.5 times the DTS bandwidth.
c. Set the RBW to: 3 kHz.
d. Set the VBW ≥ 3 × RBW.
e. Detector = peak.
f. Sweep time = auto couple.
g. Trace mode = max hold.
h. Allow trace to fully stabilize.
i. Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

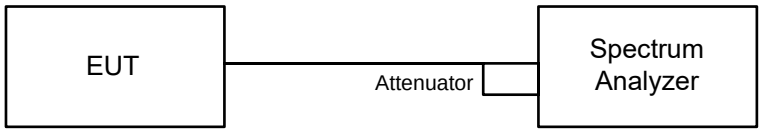


6.3.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

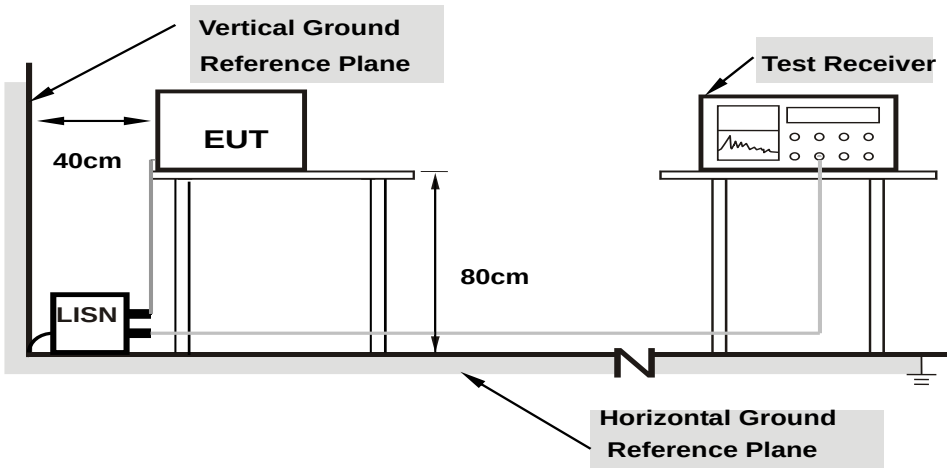
a. Set the RBW = 100 kHz.
b. Set the VBW ≥ 300 kHz.
c. Detector = peak.
d. Sweep time = auto couple.
e. Trace mode = max hold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

a. Set RBW = 100 kHz.
b. Set VBW ≥ 300 kHz.
c. Detector = peak.
d. Sweep = auto couple.
e. Trace Mode = max hold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

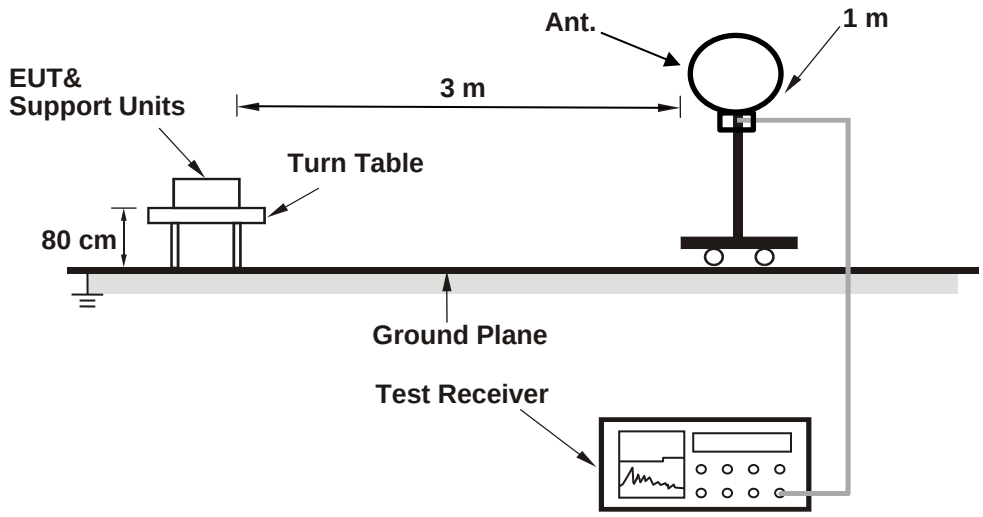
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

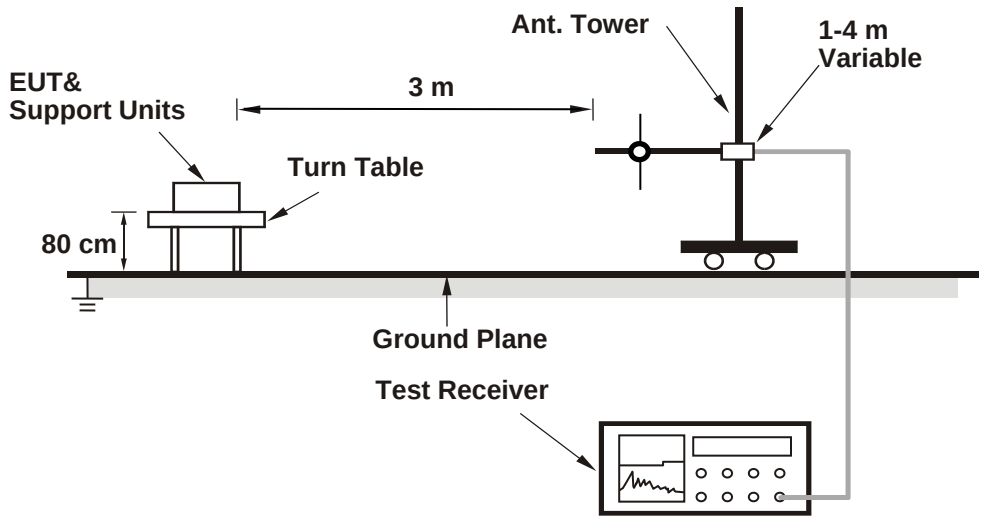
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

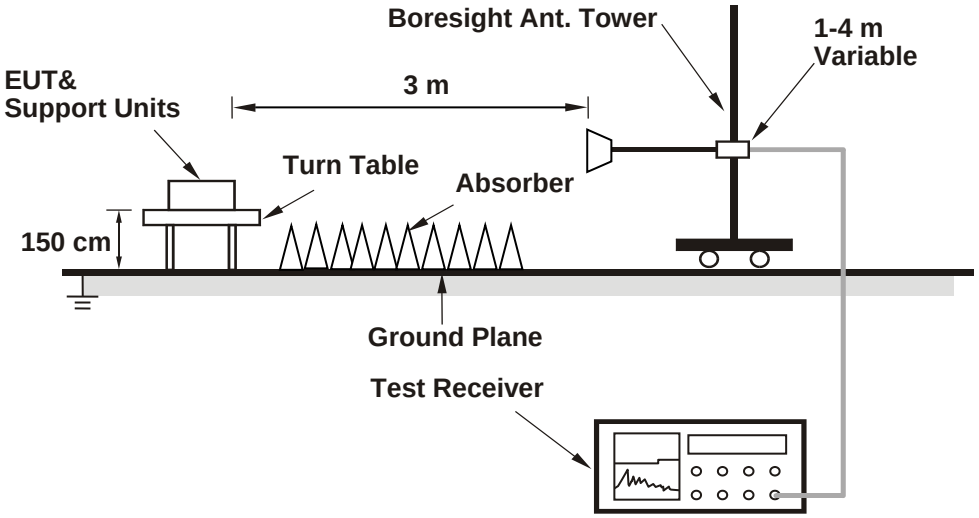
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin

Peak Power

Chain 0

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	28.445	14.54	30	Pass
6	2437	28.184	14.50	30	Pass
11	2462	29.444	14.69	30	Pass
12	2467	29.992	14.77	30	Pass
13	2472	24.434	13.88	30	Pass

Note: The antenna gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	51.761	17.14	30	Pass
6	2437	51.286	17.10	30	Pass
11	2462	52	17.16	30	Pass
12	2467	51.642	17.13	30	Pass
13	2472	55.463	17.44	30	Pass

Note: The antenna gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

Chain 1

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	29.174	14.65	30	Pass
6	2437	29.04	14.63	30	Pass
11	2462	28.576	14.56	30	Pass
12	2467	28.84	14.60	30	Pass
13	2472	22.387	13.50	30	Pass

Note: The antenna gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	47.315	16.75	30	Pass
6	2437	48.084	16.82	30	Pass
11	2462	47.643	16.78	30	Pass
12	2467	47.863	16.80	30	Pass
13	2472	46.989	16.72	30	Pass

Note: The antenna gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.

MIMO

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.11	17.21	104.006	20.17	30	Pass
6	2437	16.85	17.22	101.14	20.05	30	Pass
11	2462	16.88	17.09	99.921	20.00	30	Pass
12	2467	17.01	17.05	100.933	20.04	30	Pass
13	2472	16.56	16.40	88.941	19.49	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	18.21	18.24	132.902	21.24	30	Pass
6	2437	18.20	18.18	131.835	21.20	30	Pass
9	2452	18.27	18.27	134.286	21.28	30	Pass
10	2457	15.99	16.46	83.978	19.24	30	Pass
11	2462	15.12	15.42	67.342	18.28	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	14.18	14.20	52.485	17.20	30	Pass
6	2437	14.23	14.12	52.308	17.19	30	Pass
11	2462	14.29	14.16	52.915	17.24	30	Pass
12	2467	14.22	14.25	53.031	17.25	30	Pass
13	2472	15.62	15.33	70.595	18.49	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	14.14	14.17	52.063	17.17	30	Pass
6	2437	14.22	14.14	52.366	17.19	30	Pass
11	2462	14.30	14.21	53.279	17.27	30	Pass
12	2467	14.11	14.27	52.493	17.20	30	Pass
13	2472	15.52	15.26	69.219	18.40	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	14.16	14.21	52.425	17.20	30	Pass
6	2437	14.23	14.13	52.367	17.19	30	Pass
11	2462	14.29	14.12	52.676	17.22	30	Pass
12	2467	14.22	14.27	53.154	17.26	30	Pass
13	2472	15.63	15.23	69.902	18.44	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Full RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	14.20	14.22	52.727	17.22	30	Pass
6	2437	14.28	14.17	52.913	17.24	30	Pass
11	2462	14.40	14.23	54.027	17.33	30	Pass
12	2467	14.25	14.29	53.461	17.28	30	Pass
13	2472	15.69	15.38	71.582	18.55	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	18.52	18.56	142.901	21.55	30	Pass
6	2437	18.69	18.52	145.082	21.62	30	Pass
9	2452	18.63	18.89	150.392	21.77	30	Pass
10	2457	16.14	15.71	78.354	18.94	30	Pass
11	2462	14.70	14.83	59.921	17.78	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Full RU

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	18.64	18.66	146.565	21.66	30	Pass
6	2437	18.83	18.59	148.661	21.72	30	Pass
9	2452	18.66	18.90	**151.076**	**21.79**	30	Pass
10	2457	16.20	15.76	79.357	19.00	30	Pass
11	2462	14.73	15.13	62.3	17.94	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.02 dBi < 6 dBi, so the output power limit shall not be reduced.

Average Power

Chain 0

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	17.458	12.42
6	2437	17.338	12.39
11	2462	17.579	12.45
12	2467	17.66	12.47
13	2472	14.454	11.60

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	17.418	12.41
6	2437	17.258	12.37
11	2462	17.498	12.43
12	2467	17.338	12.39
13	2472	16.558	12.19

Chain 1

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	17.66	12.47
6	2437	17.579	12.45
11	2462	17.298	12.38
12	2467	17.458	12.42
13	2472	13.74	11.38

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	17.219	12.36
6	2437	17.458	12.42
11	2462	17.298	12.38
12	2467	17.378	12.40
13	2472	13.836	11.41

MIMO

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	12.37	12.27	34.124	15.33
6	2437	12.11	12.27	33.121	15.20
11	2462	12.13	12.14	32.699	15.15
12	2467	12.25	12.11	33.044	15.19
13	2472	10.56	10.41	22.366	13.50

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	12.42	12.45	35.037	15.45
6	2437	12.41	12.39	34.756	15.41
9	2452	12.47	12.47	35.321	15.48
10	2457	10.52	10.55	22.622	13.55
11	2462	9.12	9.18	16.445	12.16

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	2.16	2.25	3.323	5.22
6	2437	2.03	2.28	3.286	5.17
11	2462	2.58	2.32	3.517	5.46
12	2467	2.41	2.42	3.488	5.43
13	2472	3.76	3.68	4.71	6.73

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	2.01	2.09	3.207	5.06
6	2437	2.24	2.03	3.271	5.15
11	2462	2.83	2.51	3.701	5.68
12	2467	2.65	2.12	3.47	5.40
13	2472	3.86	3.71	4.782	6.80

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	2.19	2.29	3.35	5.25
6	2437	2.35	2.14	3.355	5.26
11	2462	2.66	1.99	3.426	5.35
12	2467	2.45	2.35	3.476	5.41
13	2472	4.29	4.62	5.583	7.47

802.11ax (HE20) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	12.14	12.15	32.774	15.16
6	2437	12.21	12.11	32.89	15.17
11	2462	12.32	12.15	33.467	15.25
12	2467	12.19	12.21	33.192	15.21
13	2472	9.71	9.60	18.474	12.67

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	6.68	6.56	9.185	9.63
6	2437	6.52	6.44	8.893	9.49
9	2452	6.58	6.56	9.079	9.58
10	2457	4.79	4.64	5.924	7.73
11	2462	2.77	3.51	4.136	6.17

802.11ax (HE40) Full RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	12.15	12.17	32.888	15.17
6	2437	12.33	12.11	33.356	15.23
9	2452	12.16	12.39	33.782	15.29
10	2457	9.88	9.72	19.103	12.81
11	2462	8.77	8.83	15.172	11.81

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin

Chain 0

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.86	8	Pass
6	2437	-8.92	8	Pass
11	2462	-8.71	8	Pass
12	2467	-8.61	8	Pass
13	2472	-9.54	8	Pass

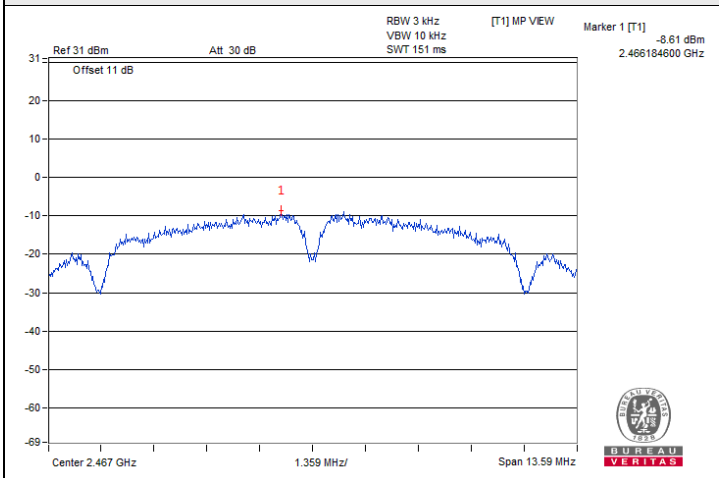
Note: The antenna gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

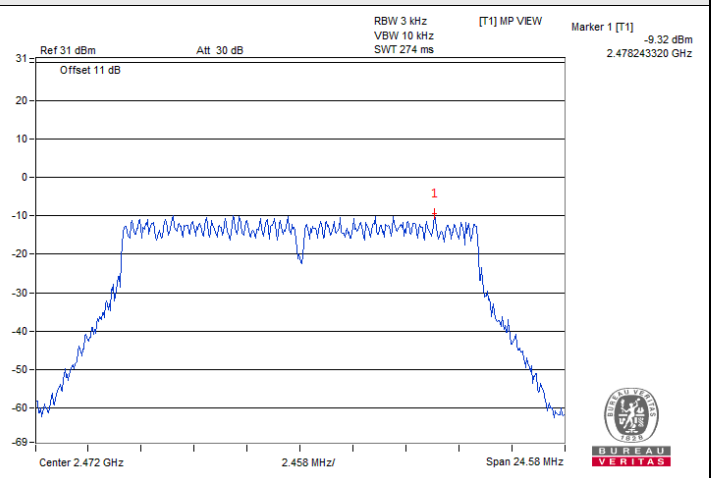
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-11.04	8	Pass
6	2437	-11.08	8	Pass
11	2462	-11.02	8	Pass
12	2467	-11.05	8	Pass
13	2472	-9.32	8	Pass

Note: The antenna gain is 3.02 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



802.11b : CH 12



802.11g : CH 13

Chain 1

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-8.68	8	Pass
6	2437	-8.70	8	Pass
11	2462	-8.77	8	Pass
12	2467	-8.73	8	Pass
13	2472	-10.13	8	Pass

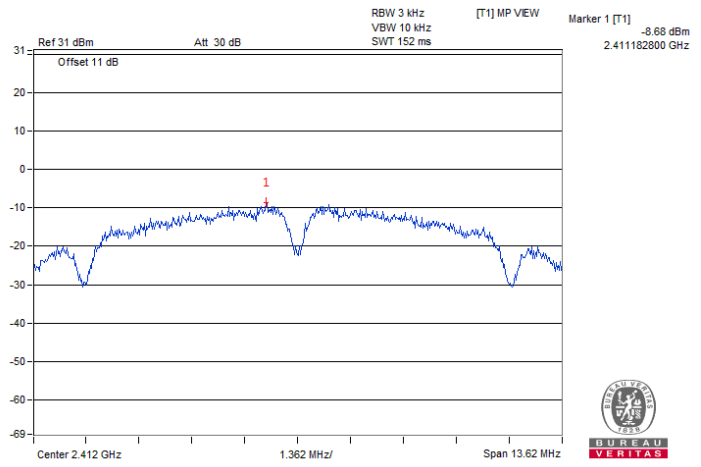
Note: The antenna gain is 2.87 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

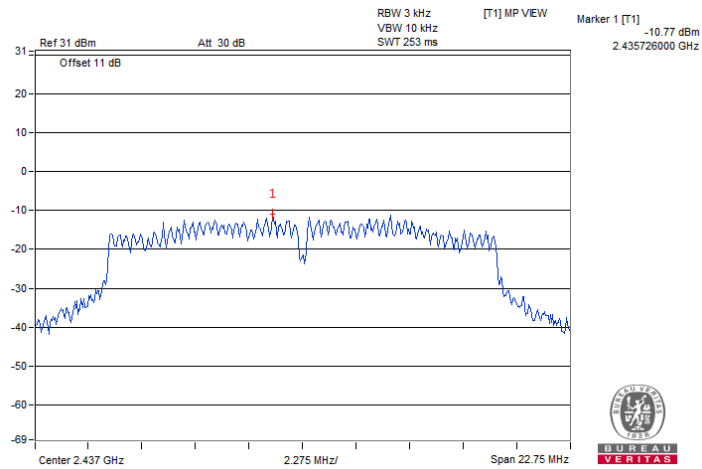
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-10.84	8	Pass
6	2437	-10.77	8	Pass
11	2462	-10.82	8	Pass
12	2467	-10.80	8	Pass
13	2472	-11.18	8	Pass

Note: The antenna gain is 2.87 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



802.11b : CH 1



802.11g : CH 6

MIMO

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-11.55	-11.43	-8.48	8	Pass
6	2437	-11.81	-11.42	-8.60	8	Pass
11	2462	-11.48	-11.55	-8.50	8	Pass
12	2467	-11.35	-11.58	-8.45	8	Pass
13	2472	-11.65	-11.86	-8.74	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-14.59	-14.56	-11.56	8	Pass
6	2437	-14.62	-14.62	-11.61	8	Pass
9	2452	-14.53	-14.53	-11.52	8	Pass
10	2457	-15.52	-15.48	-12.49	8	Pass
11	2462	-16.12	-16.34	-13.22	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-13.54	-13.36	-10.44	8	Pass
6	2437	-12.83	-12.84	-9.82	8	Pass
11	2462	-12.83	-12.86	-9.83	8	Pass
12	2467	-12.85	-13.20	-10.01	8	Pass
13	2472	-11.41	-11.66	-8.52	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-15.26	-14.91	-12.07	8	Pass
6	2437	-15.28	-15.29	-12.27	8	Pass
11	2462	-15.31	-15.02	-12.15	8	Pass
12	2467	-15.67	-15.17	-12.40	8	Pass
13	2472	-14.70	-14.90	-11.79	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-19.82	-19.69	-16.74	8	Pass
6	2437	-19.74	-19.87	-16.79	8	Pass
11	2462	-19.68	-19.77	-16.71	8	Pass
12	2467	-19.76	-19.71	-16.72	8	Pass
13	2472	-17.31	-17.43	-14.36	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-11.65	-11.62	-8.62	8	Pass
6	2437	-11.57	-11.66	-8.60	8	Pass
11	2462	-11.45	-11.61	-8.52	8	Pass
12	2467	-11.62	-11.55	-8.57	8	Pass
13	2472	-12.80	-13.14	-9.96	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{Chain0/20} + 10^{Chain1/20})^2$ / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-17.85	-17.39	-14.60	8	Pass
6	2437	-17.36	-17.99	-14.65	8	Pass
9	2452	-16.43	-16.40	-13.40	8	Pass
10	2457	-18.67	-19.64	-16.12	8	Pass
11	2462	-20.13	-20.67	-17.38	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[($10^{Chain0/20}$ + $10^{Chain1/20}$)^2 / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

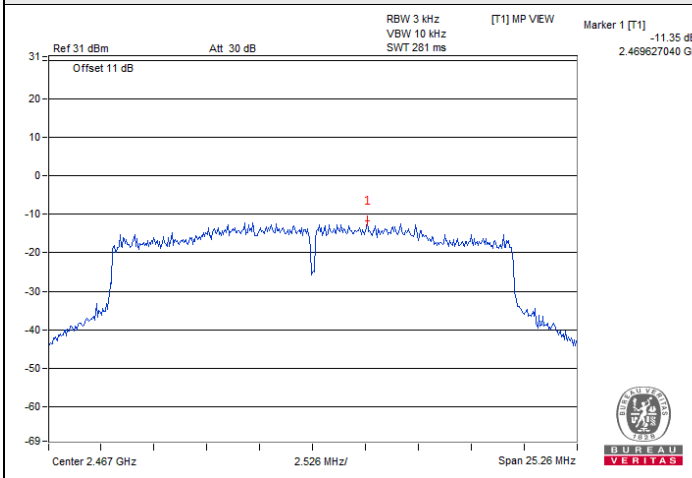
802.11ax (HE40) Full RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-14.28	-14.26	-11.26	8	Pass
6	2437	-14.09	-14.33	-11.20	8	Pass
9	2452	-14.26	-14.02	-11.13	8	Pass
10	2457	-16.98	-17.32	-14.14	8	Pass
11	2462	-18.39	-18.43	-15.40	8	Pass

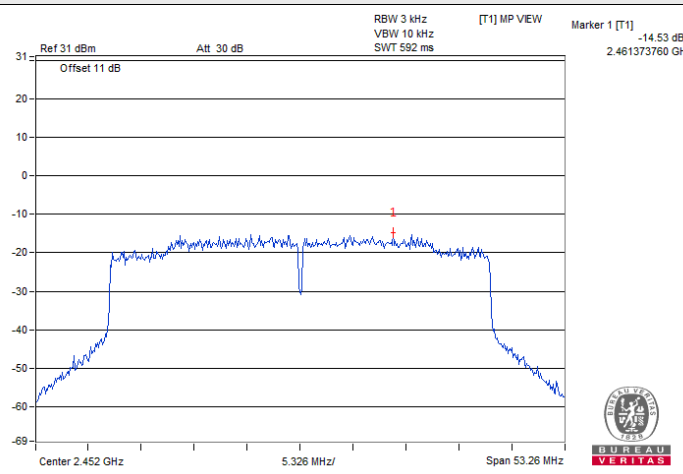
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[($10^{Chain0/20}$ + $10^{Chain1/20}$)^2 / 2]
3. The directional gain is 5.96 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value

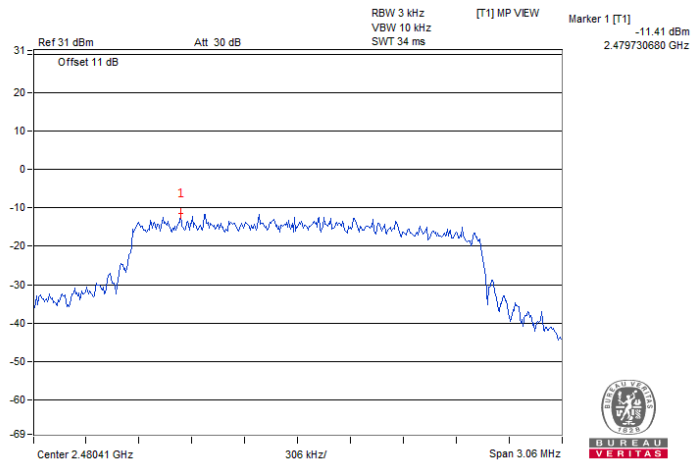


802.11n (HT20) / Chain 0 : CH 12

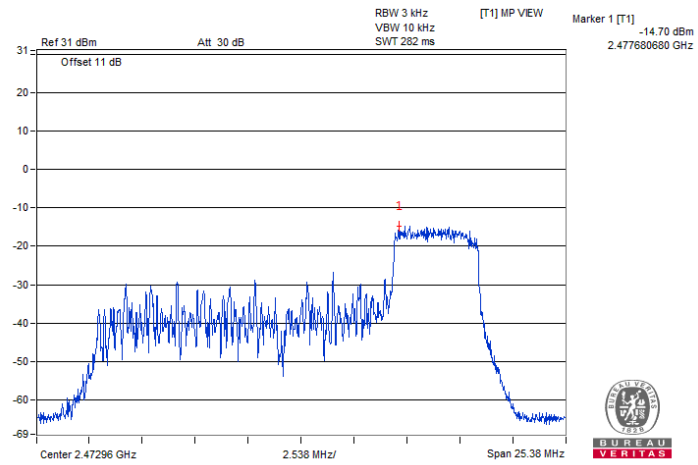


802.11n (HT40) / Chain 0 : CH 9

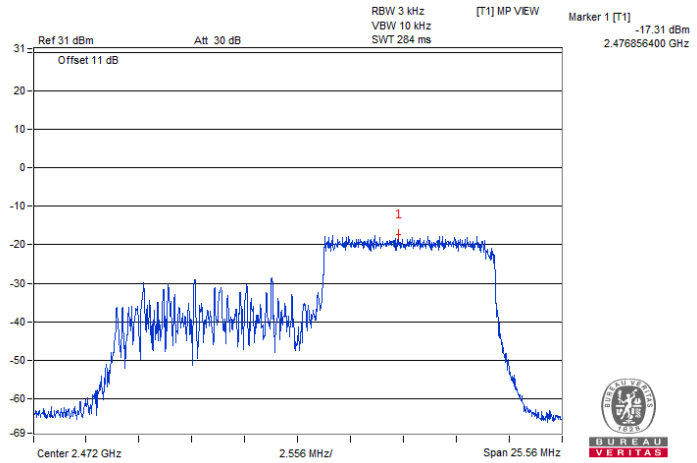
Spectrum Plot of Maximum Value



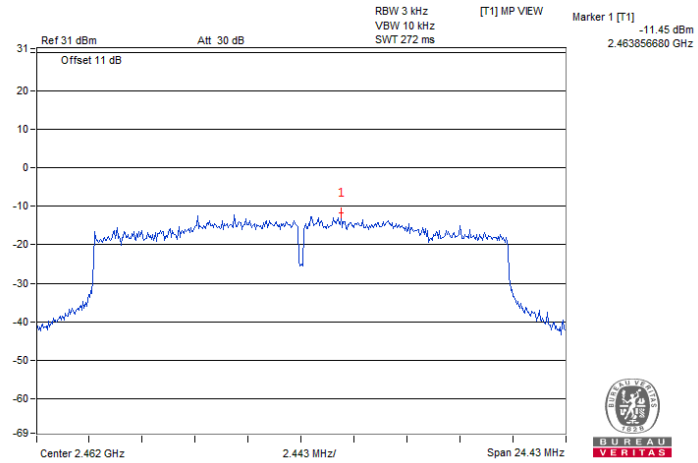
802.11ax (HE20) 26-tone RU / Chain 0 : CH 13@8



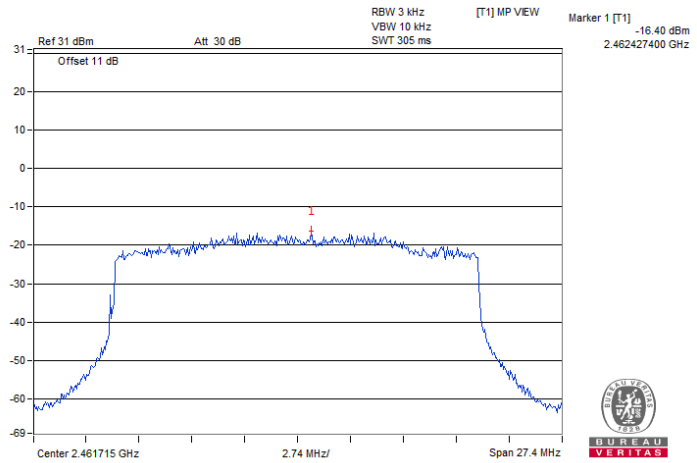
802.11ax (HE20) 52-tone RU / Chain 0 : CH 13@40



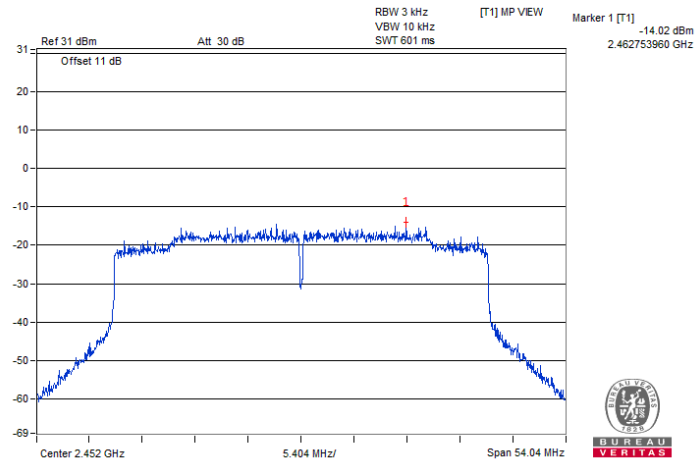
802.11ax (HE20) 106-tone RU / Chain 0 : CH 13@54



802.11ax (HE20) Full RU / Chain 0 : CH 11



802.11ax (HE40) 242-tone RU / Chain 1 : CH 9@62



802.11ax (HE40) Full RU / Chain 1 : CH 9

7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin

Chain 0

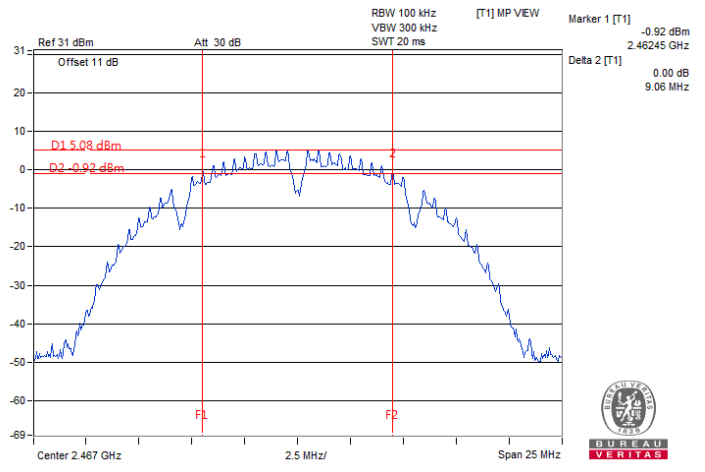
802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	9.07	0.5	Pass
6	2437	9.07	0.5	Pass
11	2462	9.07	0.5	Pass
12	2467	9.06	0.5	Pass
13	2472	9.09	0.5	Pass

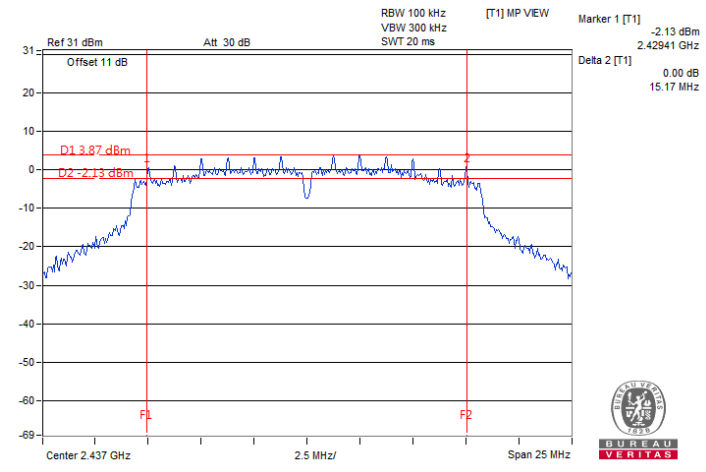
802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.18	0.5	Pass
6	2437	15.17	0.5	Pass
11	2462	15.18	0.5	Pass
12	2467	15.17	0.5	Pass
13	2472	16.39	0.5	Pass

Spectrum Plot of Minimum Value



802.11b : CH 12



802.11g : CH 6

Chain 1

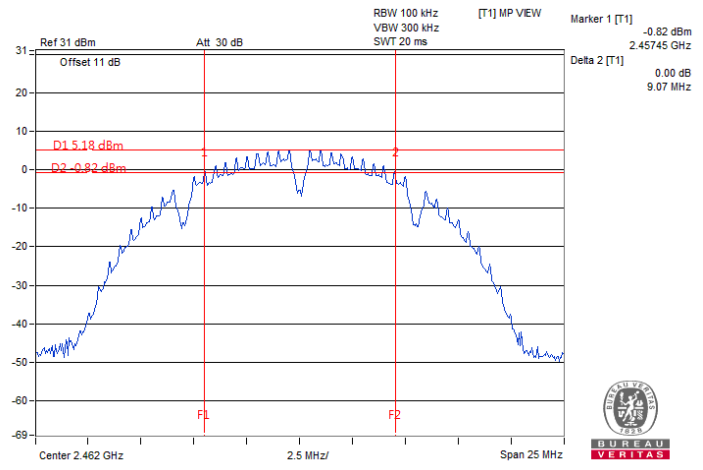
802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	9.08	0.5	Pass
6	2437	9.08	0.5	Pass
11	2462	9.07	0.5	Pass
12	2467	9.08	0.5	Pass
13	2472	9.08	0.5	Pass

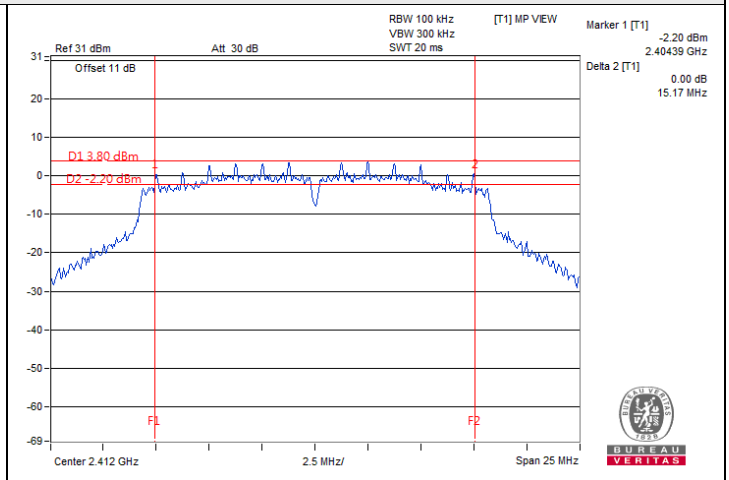
802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.17	0.5	Pass
6	2437	15.17	0.5	Pass
11	2462	15.17	0.5	Pass
12	2467	15.37	0.5	Pass
13	2472	16.38	0.5	Pass

Spectrum Plot of Minimum Value



802.11b : CH 11



802.11g : CH 1

MIMO

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.92	13.87	0.5	Pass
6	2437	15.11	15.19	0.5	Pass
11	2462	15.89	15.11	0.5	Pass
12	2467	16.84	15.71	0.5	Pass
13	2472	17.61	17.58	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.34	36.16	0.5	Pass
6	2437	36.60	35.23	0.5	Pass
9	2452	35.51	35.31	0.5	Pass
10	2457	35.06	35.11	0.5	Pass
11	2462	36.49	36.40	0.5	Pass

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	2.08	2.12	0.5	Pass
6	2437	2.10	2.10	0.5	Pass
11	2462	2.07	2.11	0.5	Pass
12	2467	2.07	2.09	0.5	Pass
13	2472	2.04	2.00	0.5	Pass

802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.03	17.03	0.5	Pass
6	2437	17.02	17.01	0.5	Pass
11	2462	17.01	17.00	0.5	Pass
12	2467	17.03	17.05	0.5	Pass
13	2472	16.92	16.96	0.5	Pass

802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.18	17.20	0.5	Pass
6	2437	17.21	17.19	0.5	Pass
11	2462	17.18	17.19	0.5	Pass
12	2467	17.17	17.21	0.5	Pass
13	2472	17.04	17.03	0.5	Pass

802.11ax (HE20) Full RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.57	15.24	0.5	Pass
6	2437	16.00	15.84	0.5	Pass
11	2462	16.29	15.20	0.5	Pass
12	2467	17.09	15.60	0.5	Pass
13	2472	18.20	18.07	0.5	Pass

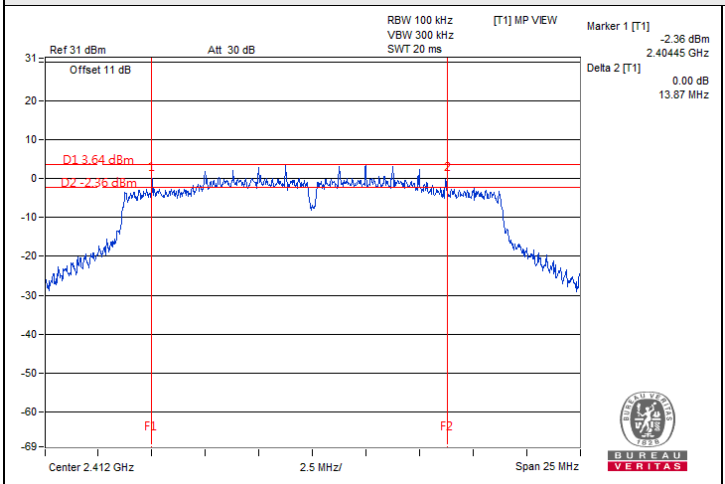
802.11ax (HE40) 242-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	18.31	18.23	0.5	Pass
6	2437	18.25	18.19	0.5	Pass
9	2452	18.43	18.27	0.5	Pass
10	2457	18.56	17.97	0.5	Pass
11	2462	18.63	18.59	0.5	Pass

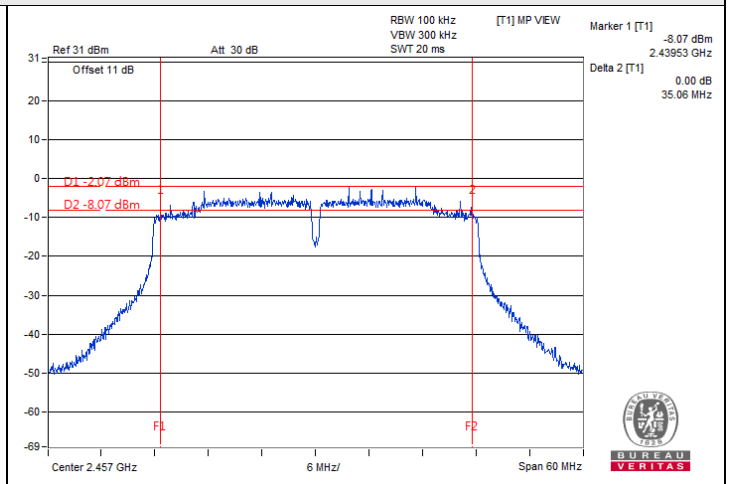
802.11ax (HE40) Full RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.63	35.98	0.5	Pass
6	2437	35.61	35.27	0.5	Pass
9	2452	35.15	36.03	0.5	Pass
10	2457	36.20	36.58	0.5	Pass
11	2462	37.76	37.72	0.5	Pass

Spectrum Plot of Minimum Value

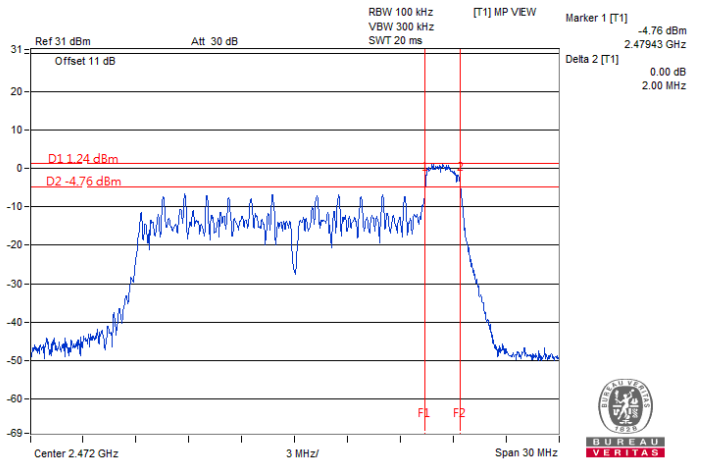


802.11n (HT20) / Chain 1 : CH 1

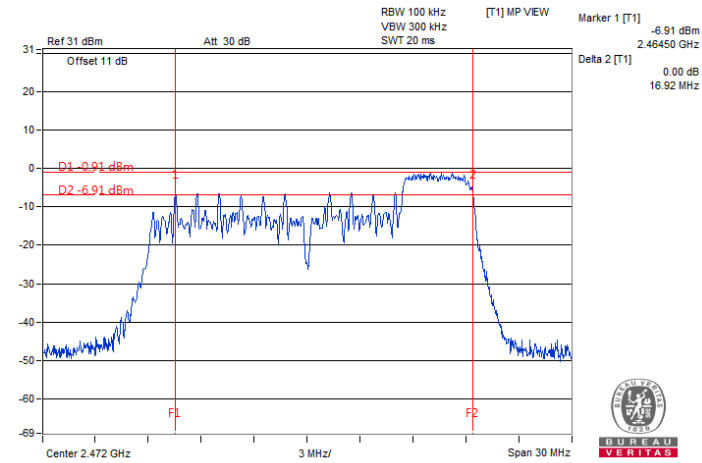


802.11n (HT40) / Chain 0 : CH 10

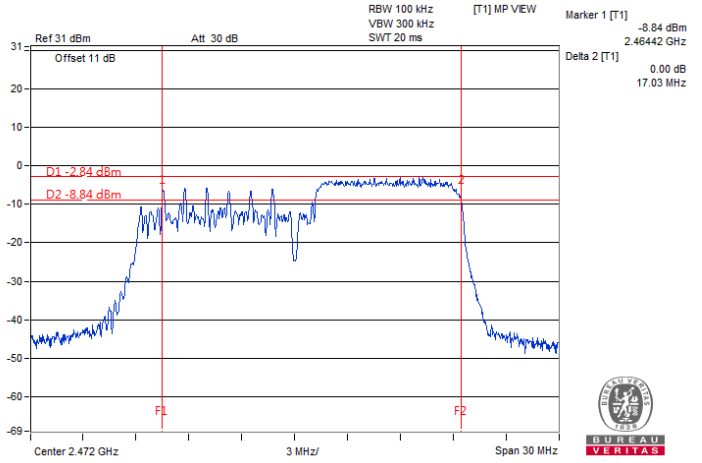
Spectrum Plot of Minimum Value



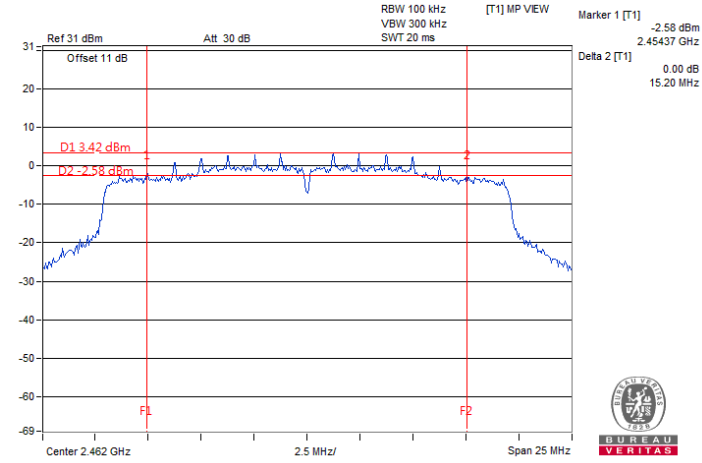
802.11ax (HE20) 26-tone RU / Chain 1 : CH 13@8



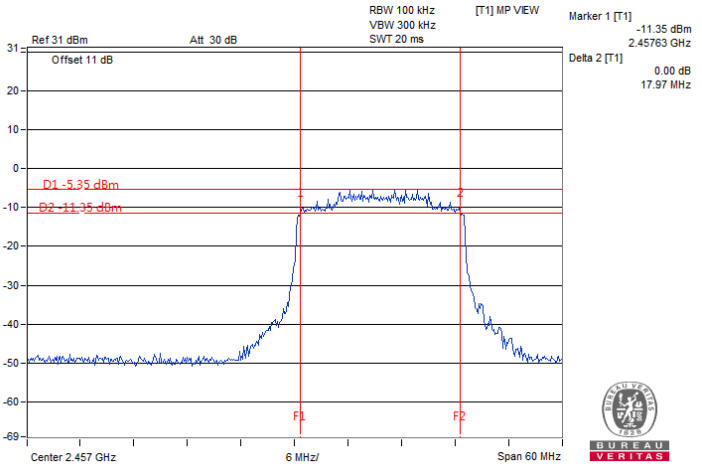
802.11ax (HE20) 52-tone RU / Chain 0 : CH 13@40



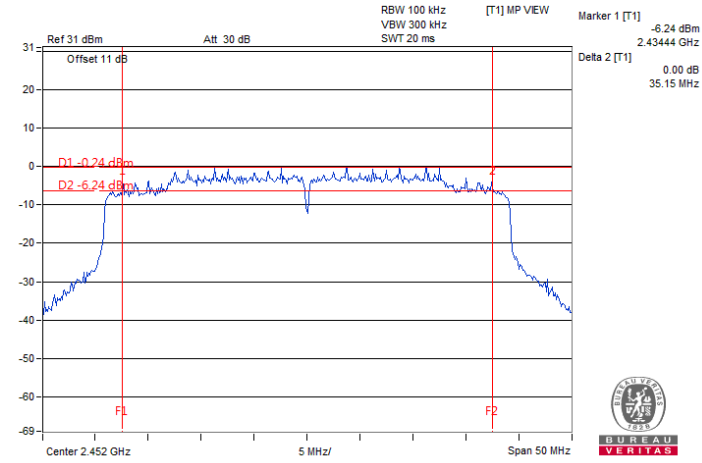
802.11ax (HE20) 106-tone RU / Chain 1 : CH 13@54



802.11ax (HE20) Full RU / Chain 1 : CH 11



802.11ax (HE40) 242-tone RU / Chain 1 : CH 10



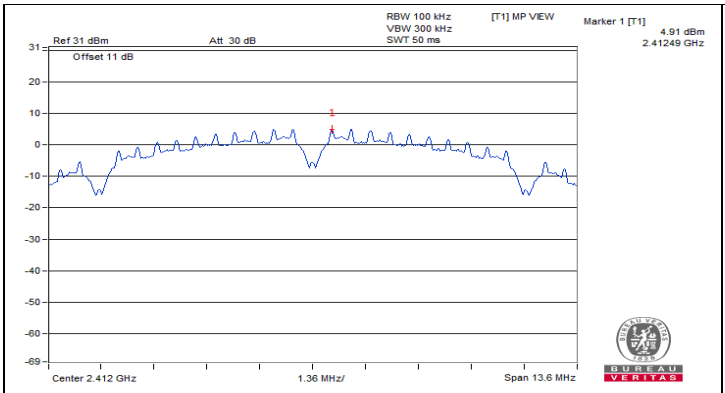
802.11ax (HE40) Full RU / Chain 0 : CH 9

7.4 Conducted Out of Band Emissions

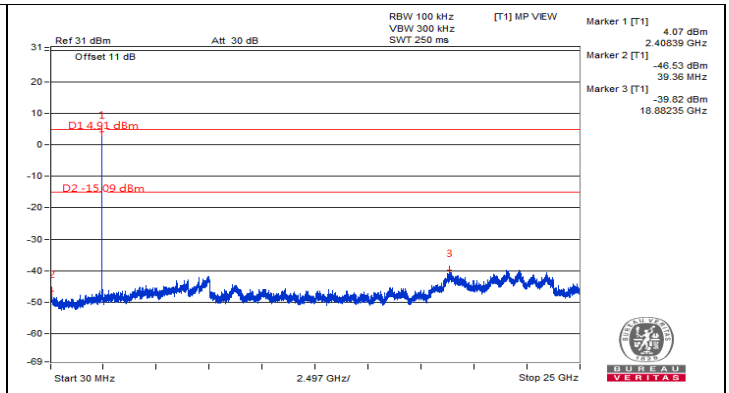
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Lin

Chain 0

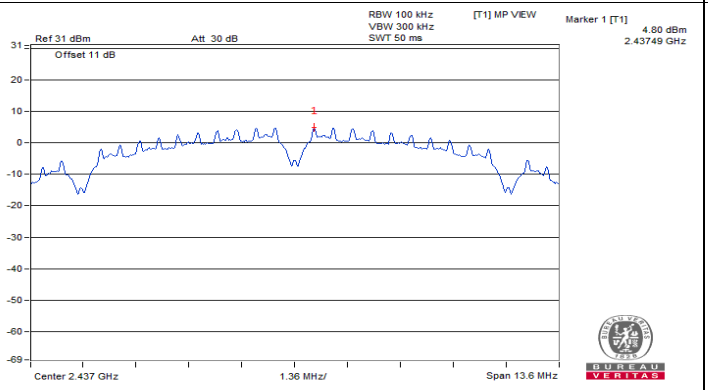
802.11b



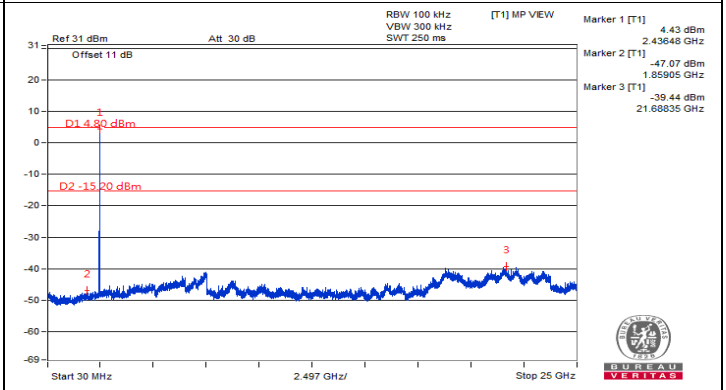
CH 1



CH 1



CH 6



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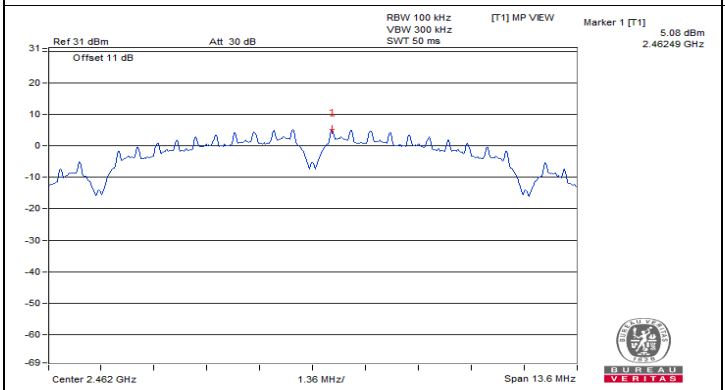
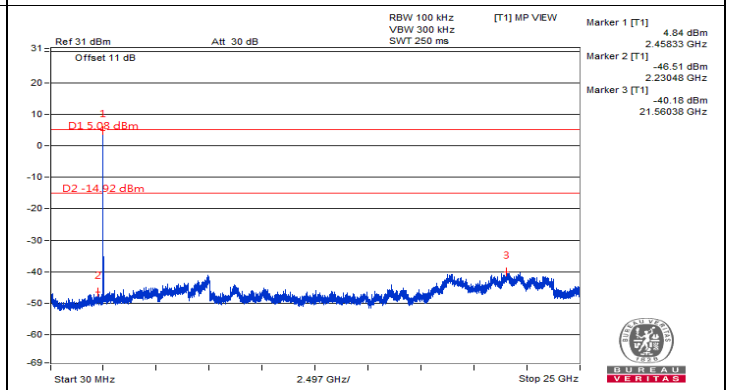
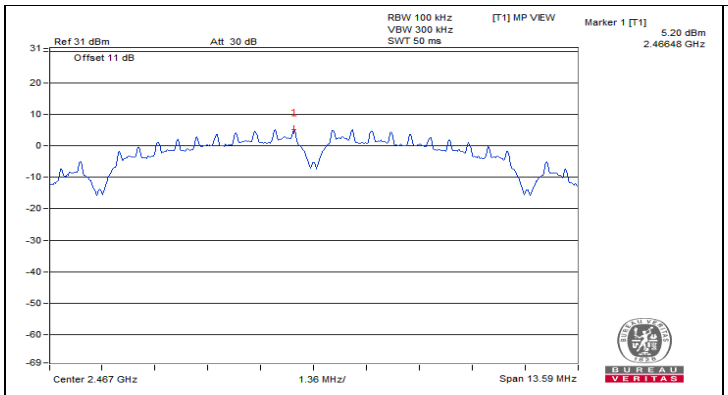


CH 11



CH 11



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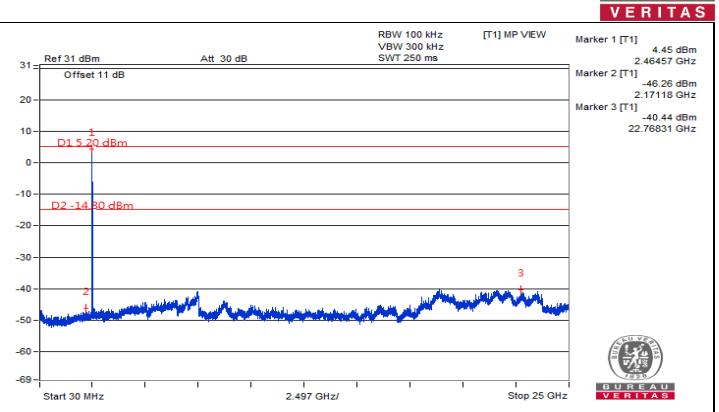

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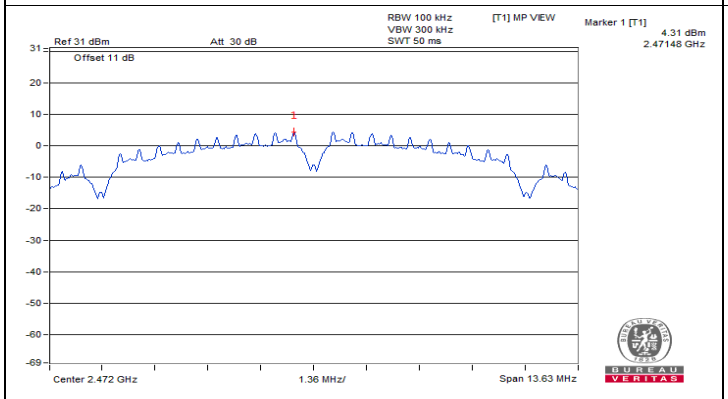

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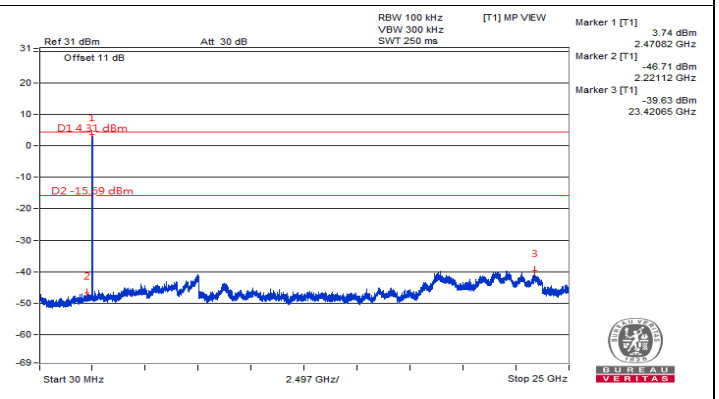
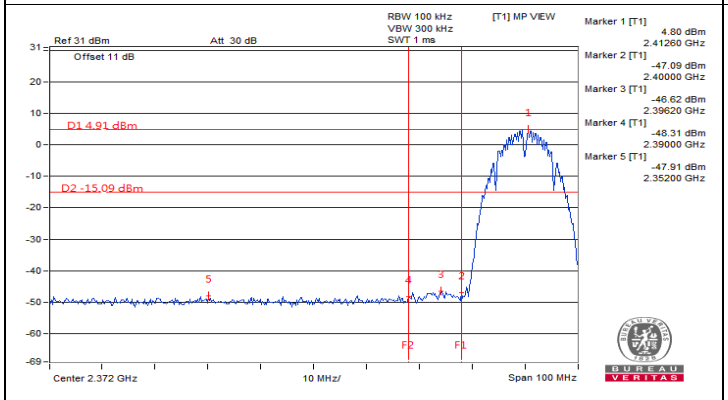
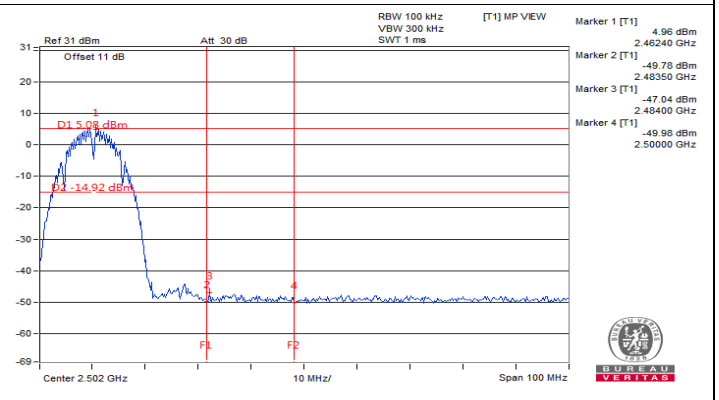


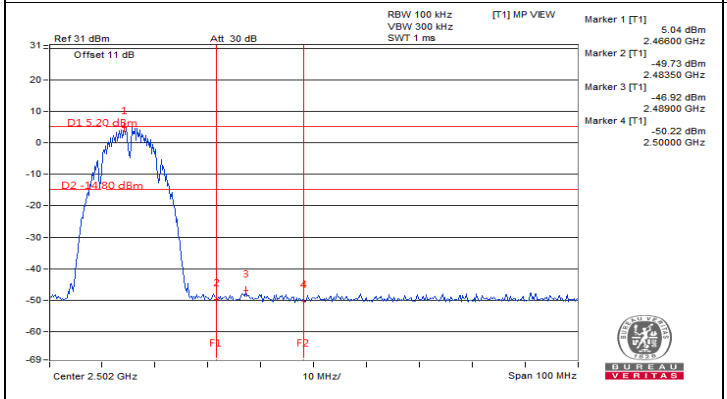
CH 13



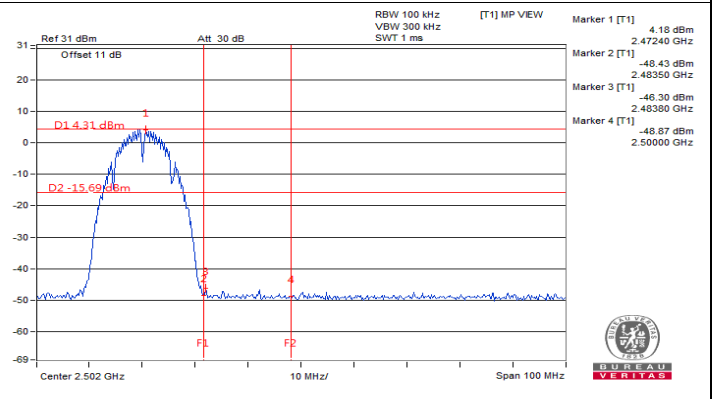
CH 1 Band edge



CH 11 Band edge

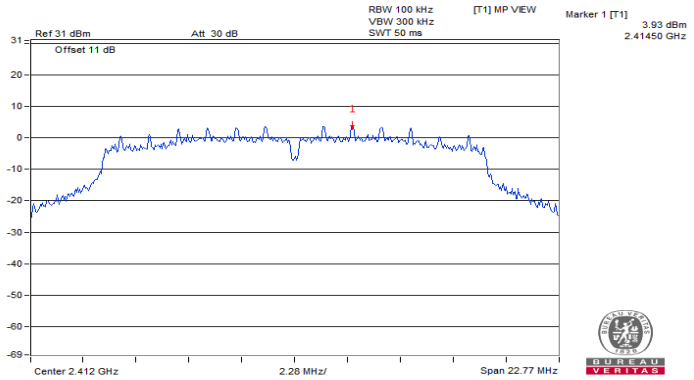


CH 12 Band edge



CH 13 Band edge

802.11g



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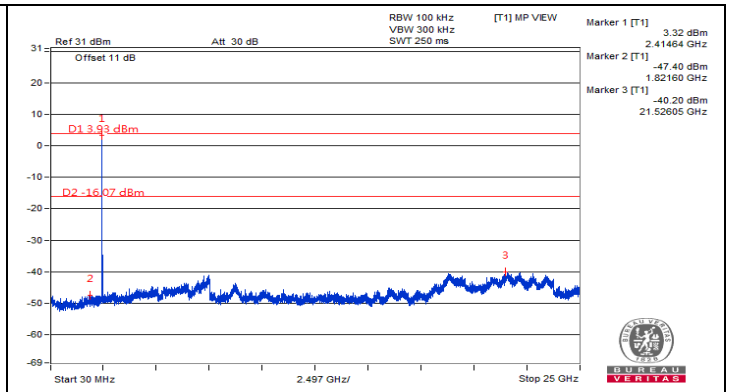

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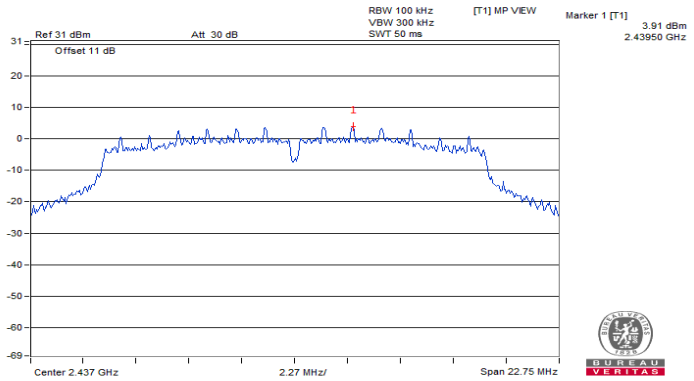
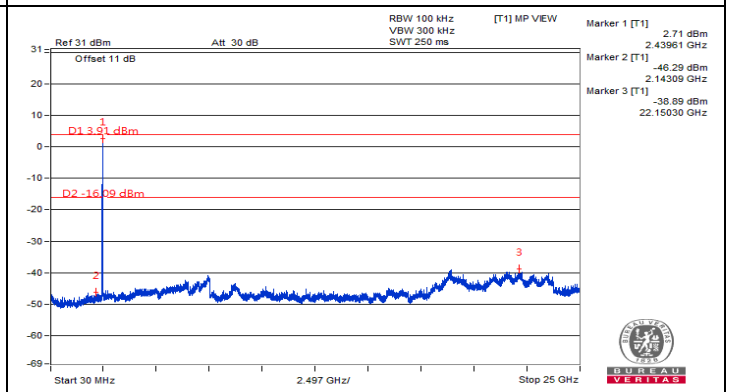


CH 6



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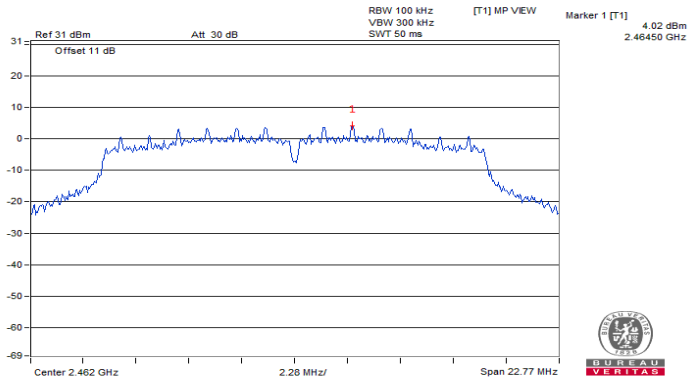
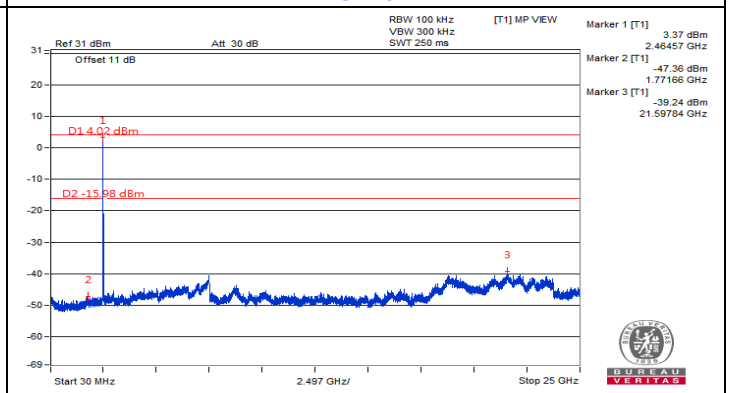


CH 11



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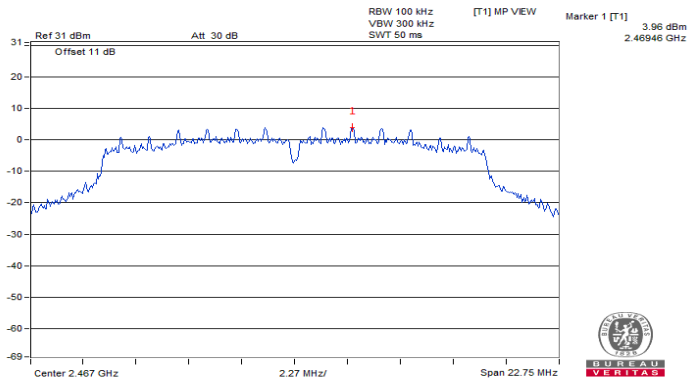

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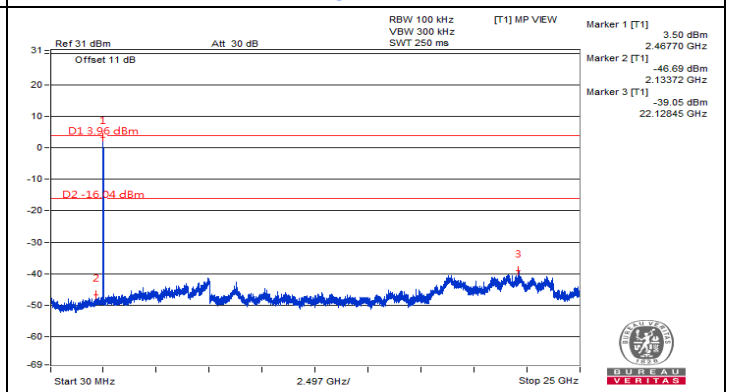

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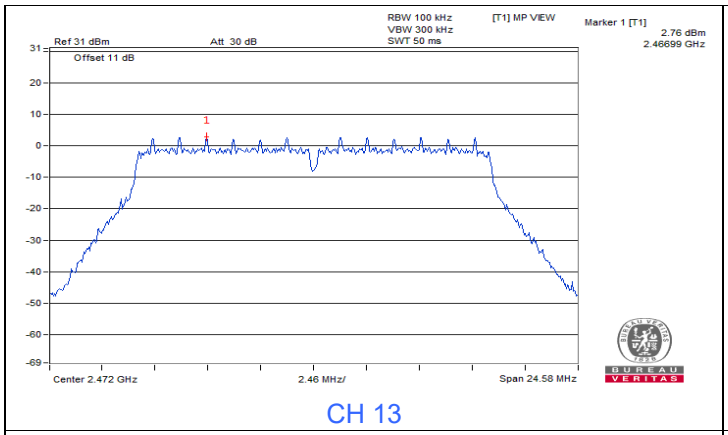

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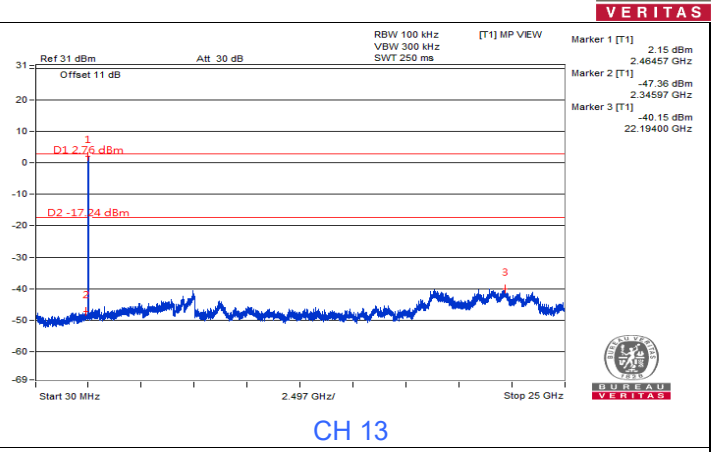

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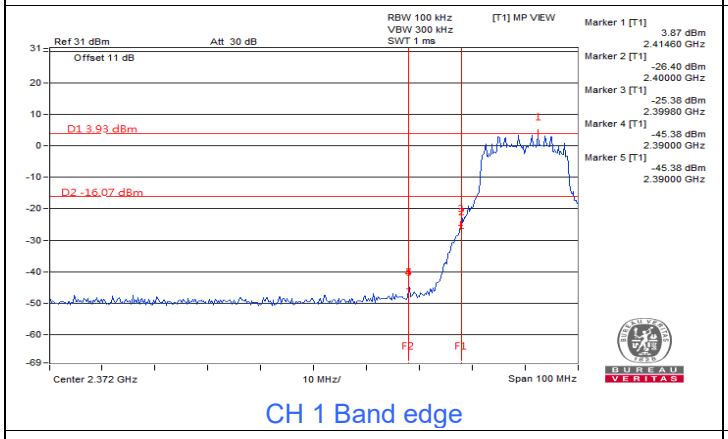
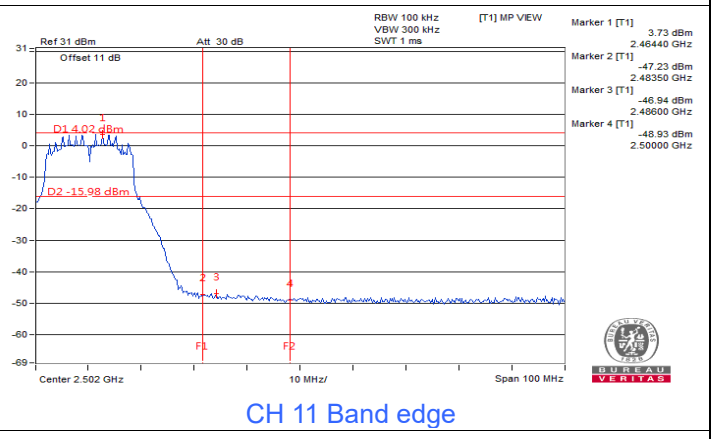
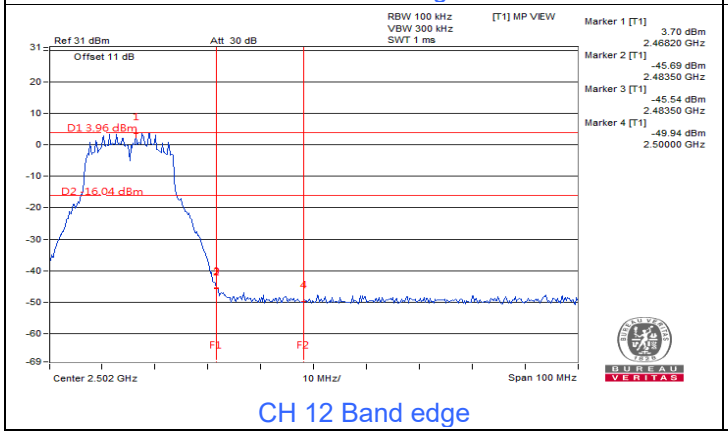


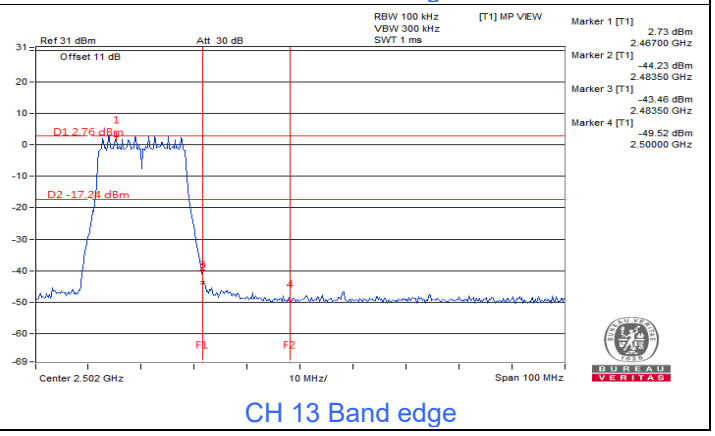
CH 1 Band edge



CH 11 Band edge



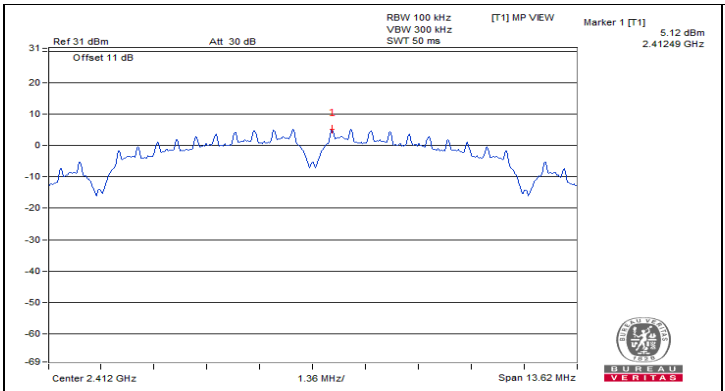
CH 12 Band edge



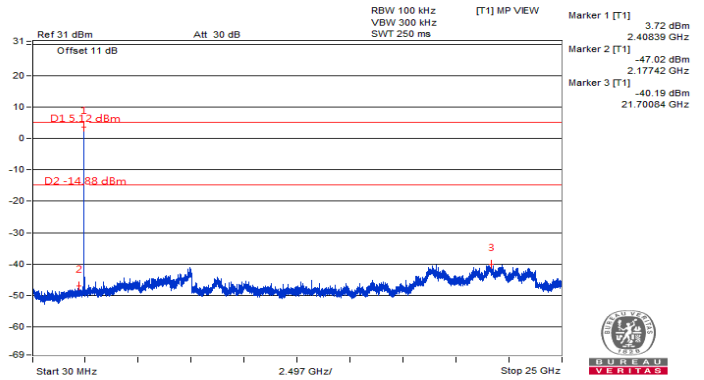
CH 13 Band edge

Chain 1

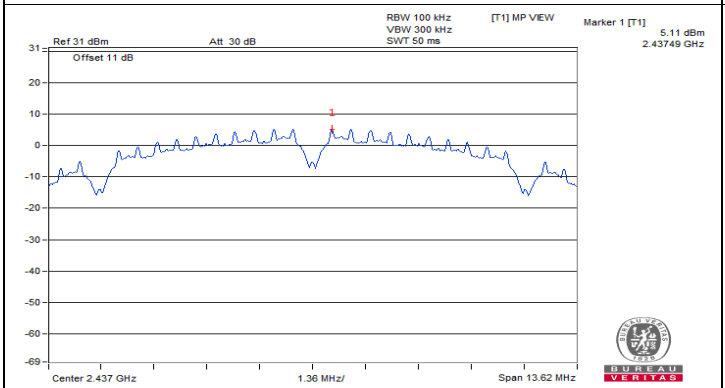
802.11b



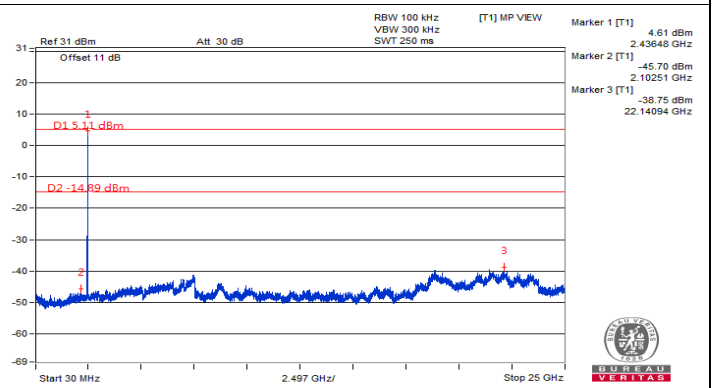
CH 1



CH 1



CH 6



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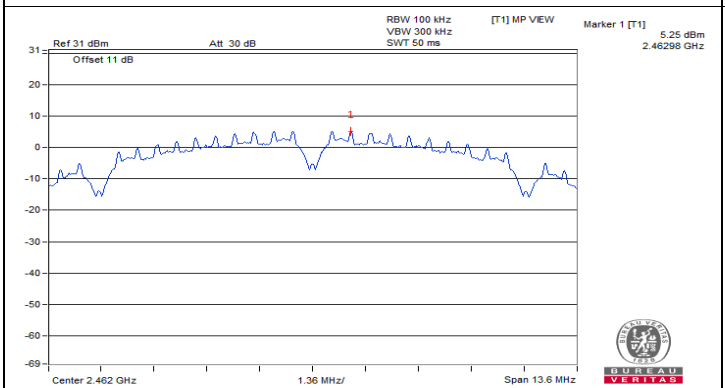

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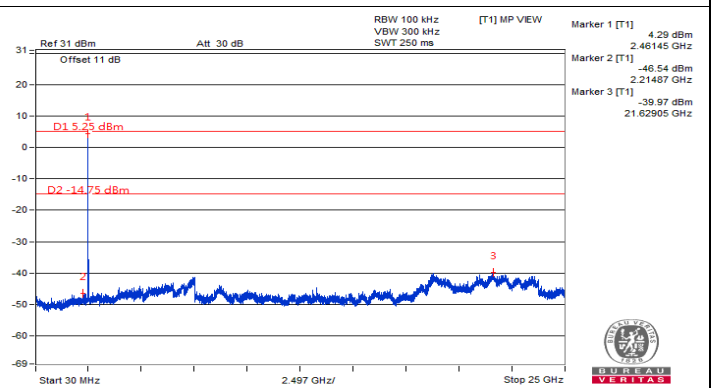

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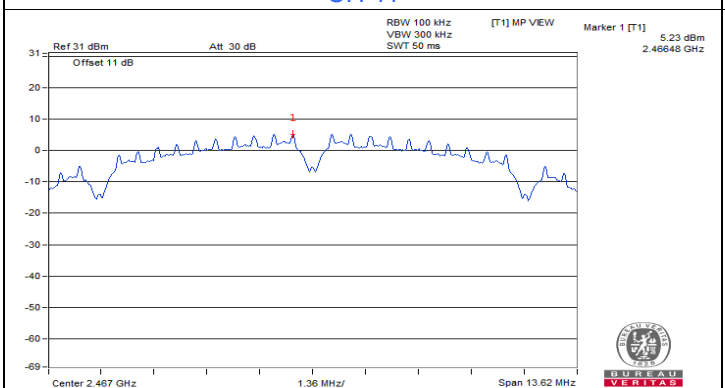

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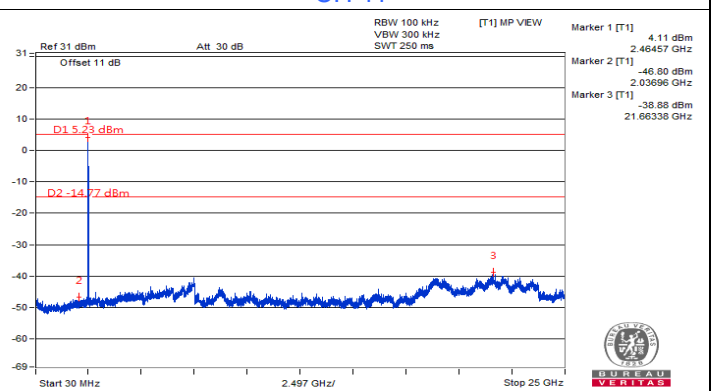

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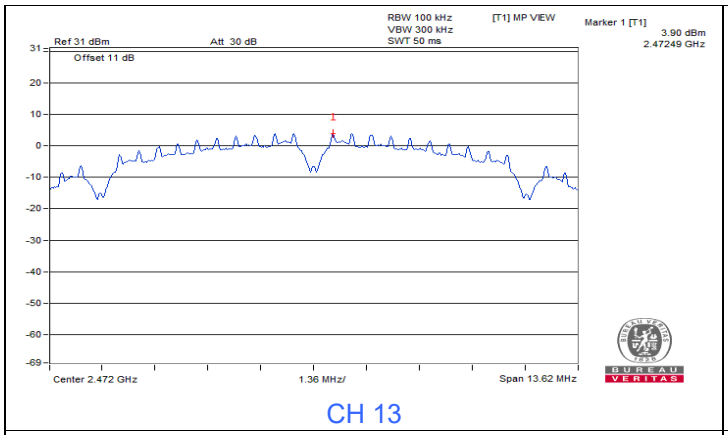

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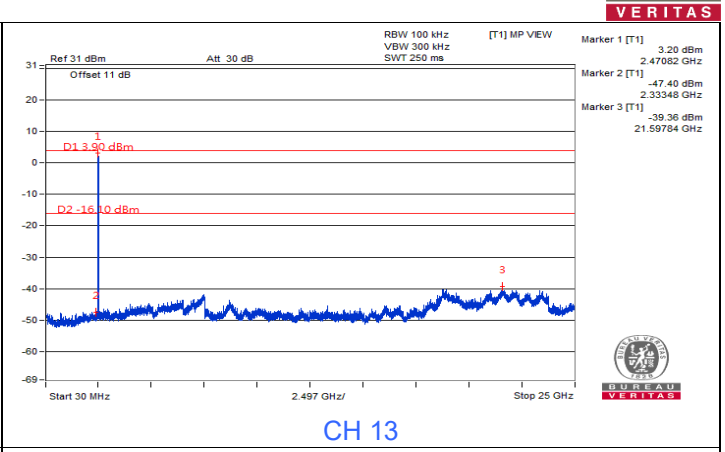
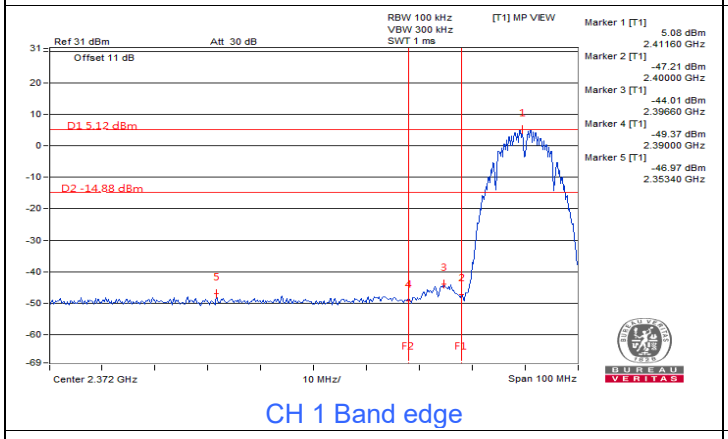
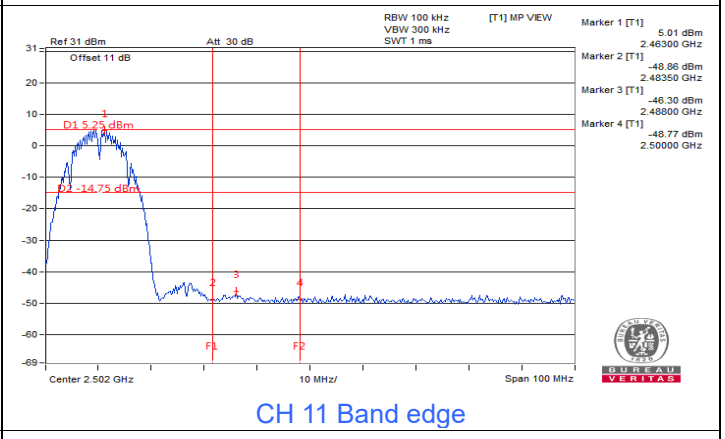


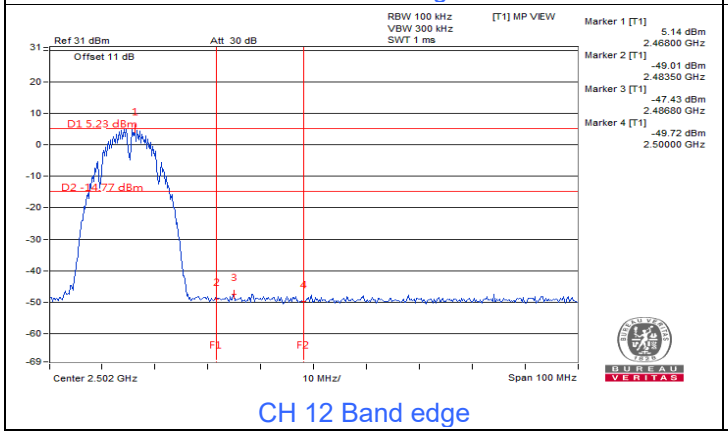
CH 13



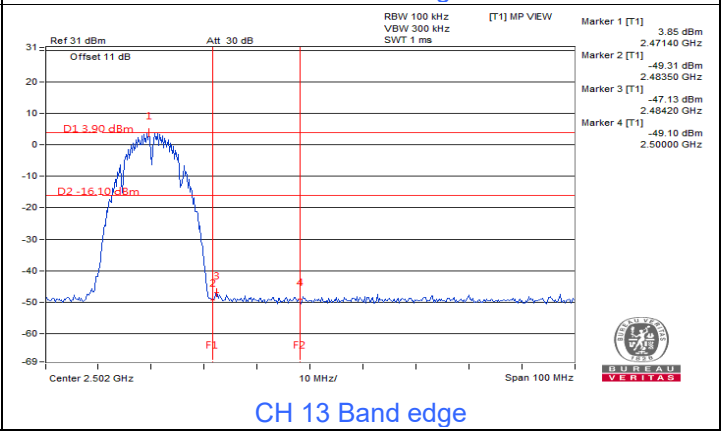
CH 1 Band edge



CH 11 Band edge

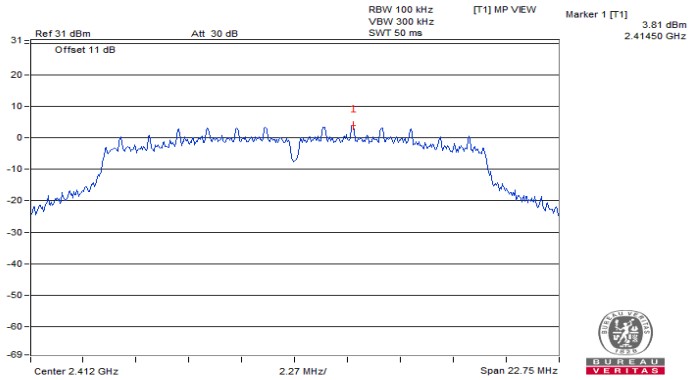


CH 12 Band edge

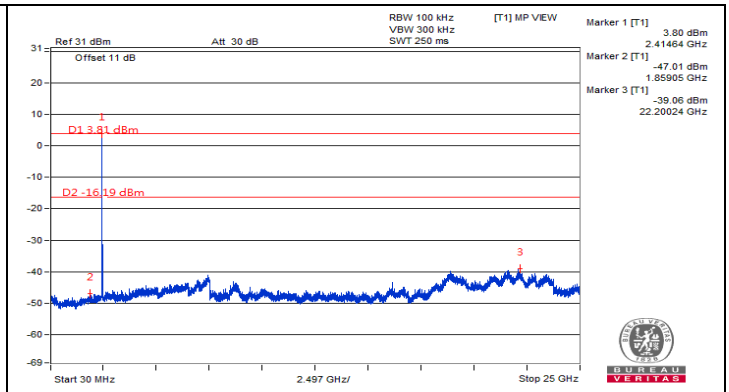


CH 13 Band edge

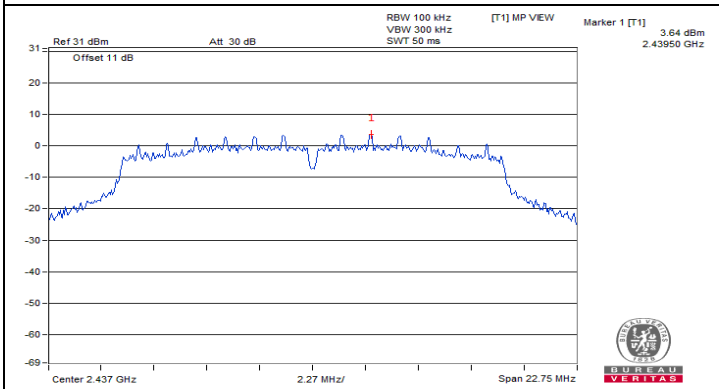
802.11g



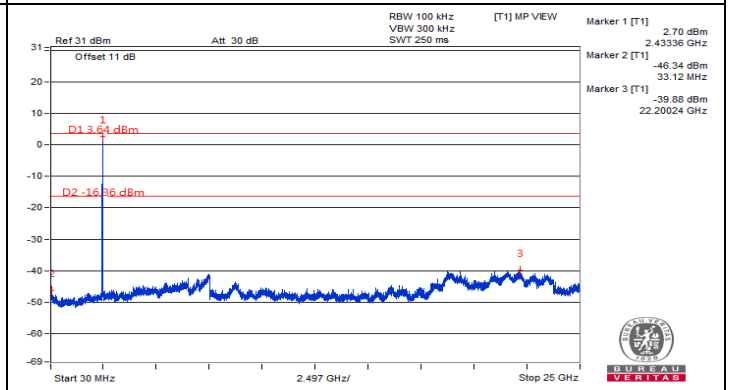
CH 1



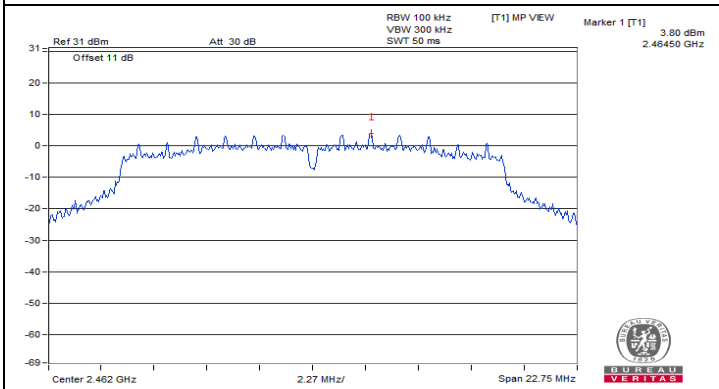
CH 1



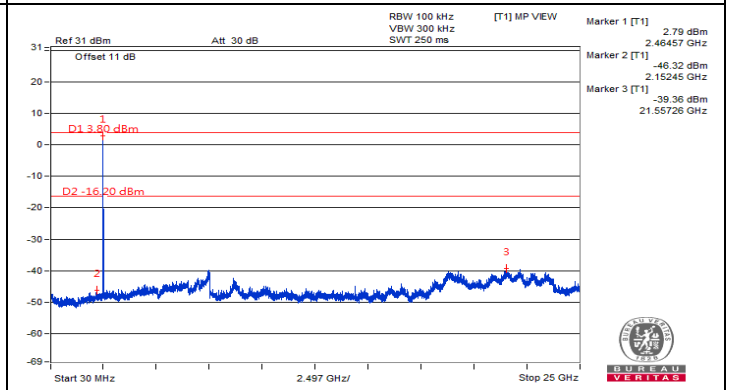
CH 6



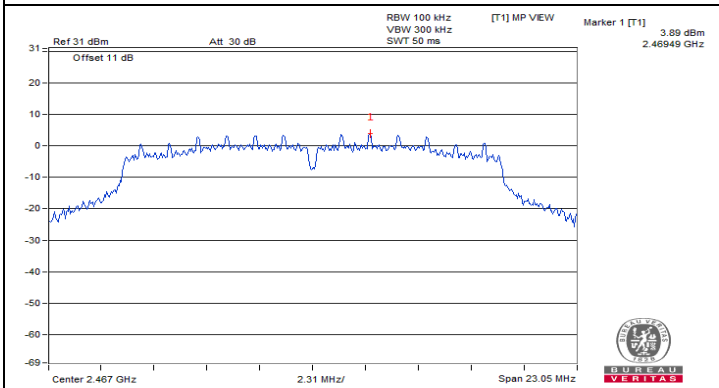
CH 6



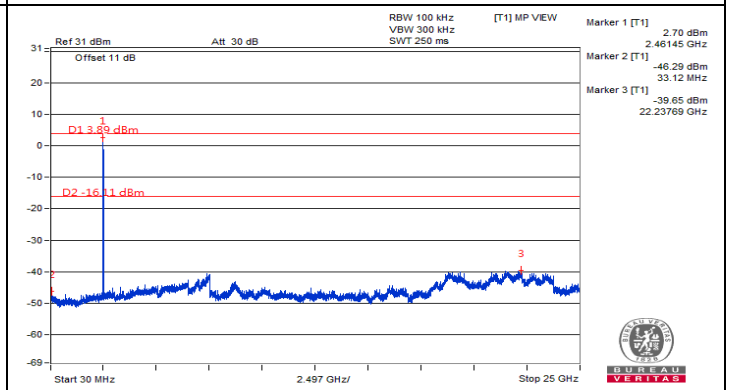
CH 11



CH 11



CH 12



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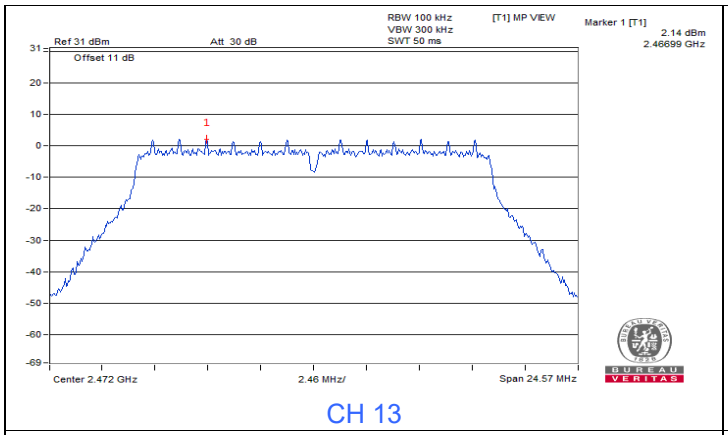
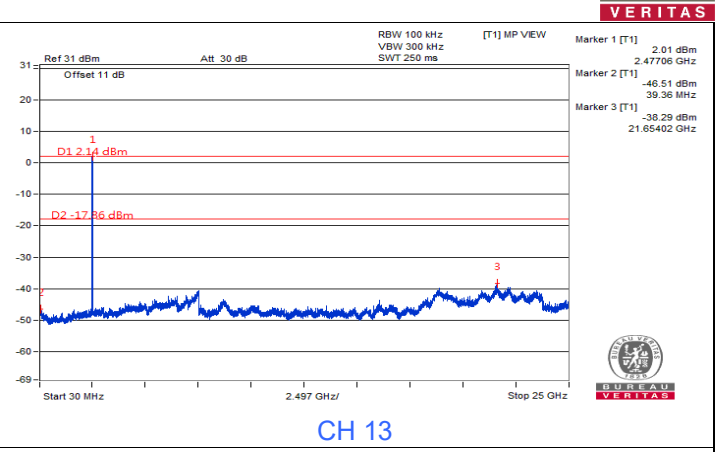
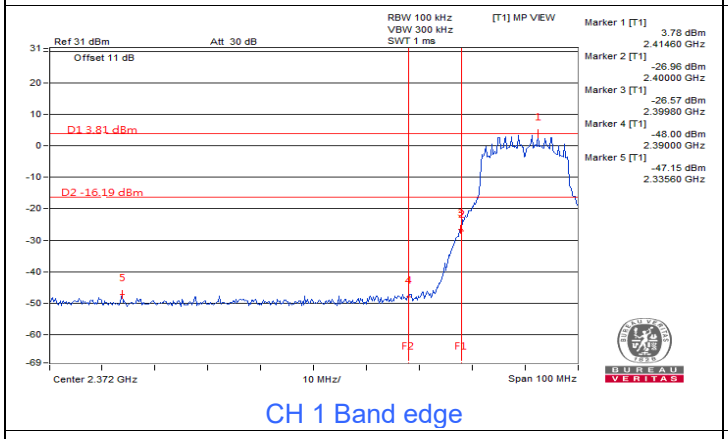


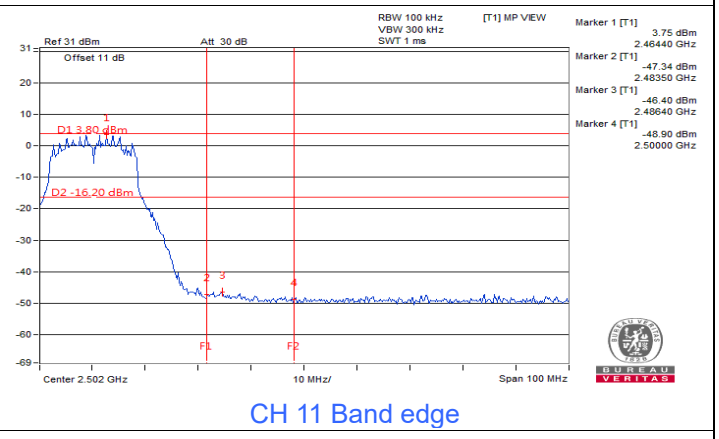
CH 13



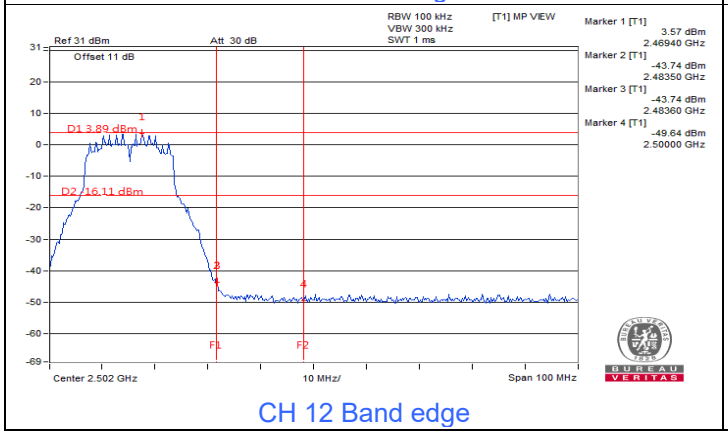
CH 13



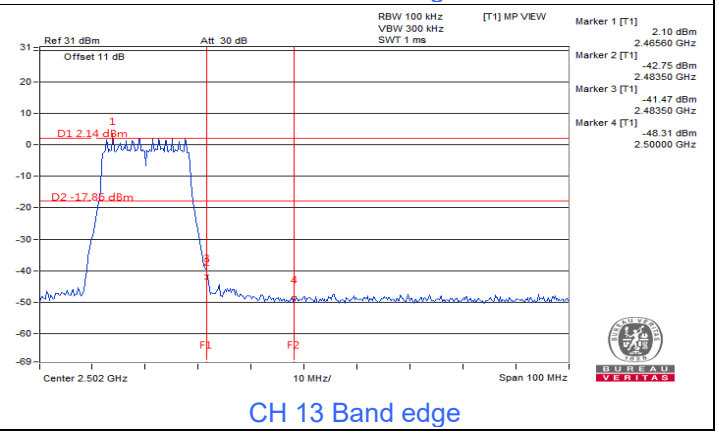
CH 1 Band edge



CH 11 Band edge



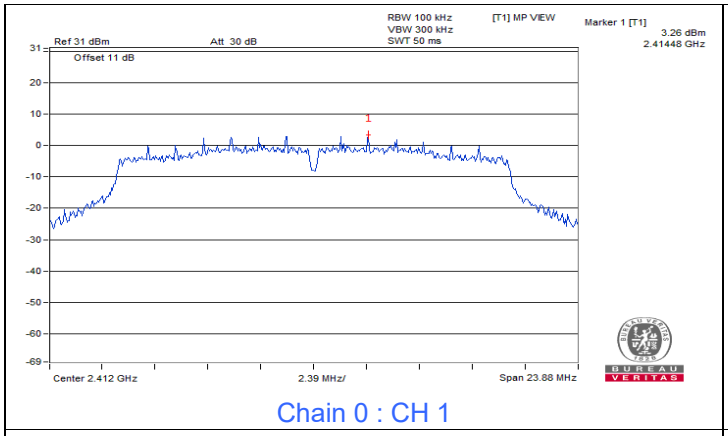
CH 12 Band edge



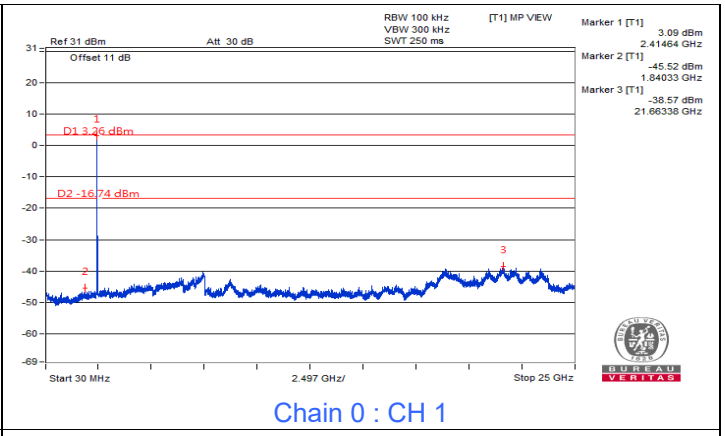
CH 13 Band edge

MIMO

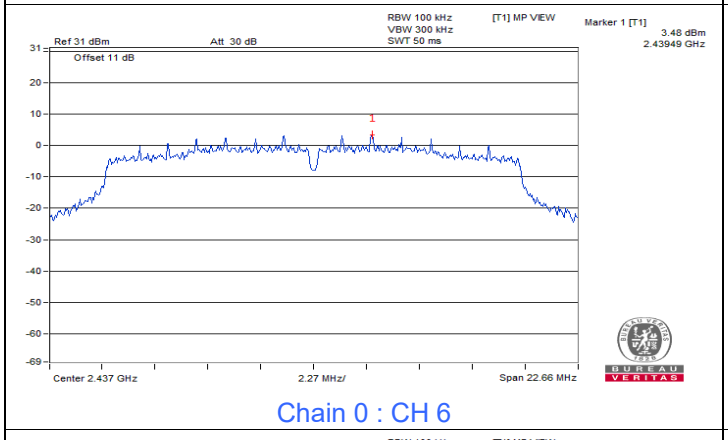
802.11n (HT20)



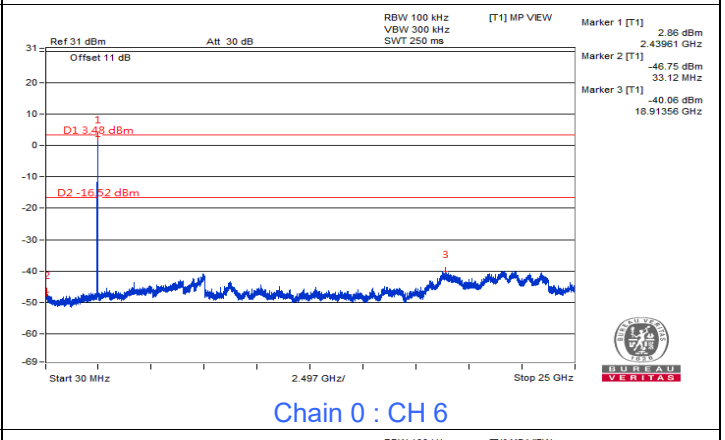
Chain 0 : CH 1



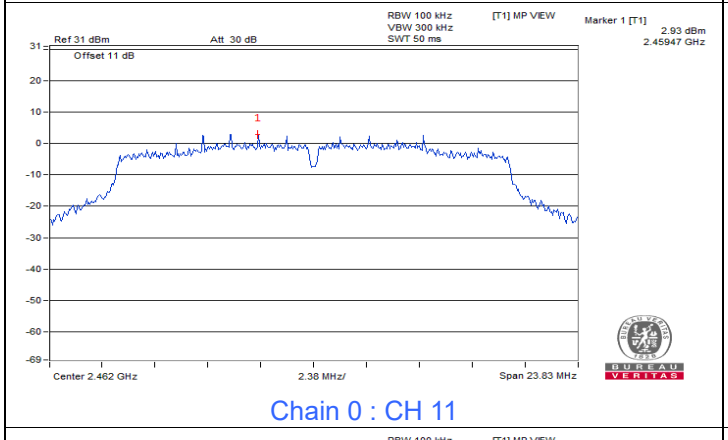
Chain 0 : CH 1



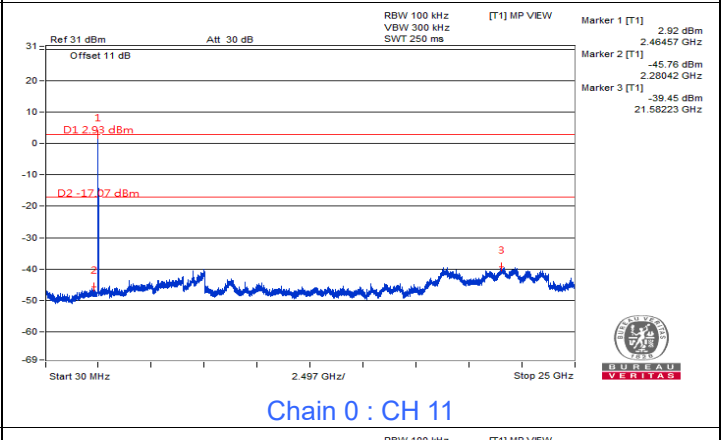
Chain 0 : CH 6



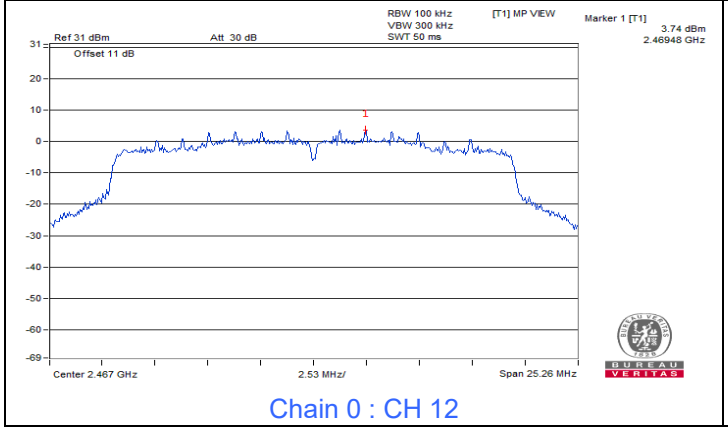
Chain 0 : CH 6



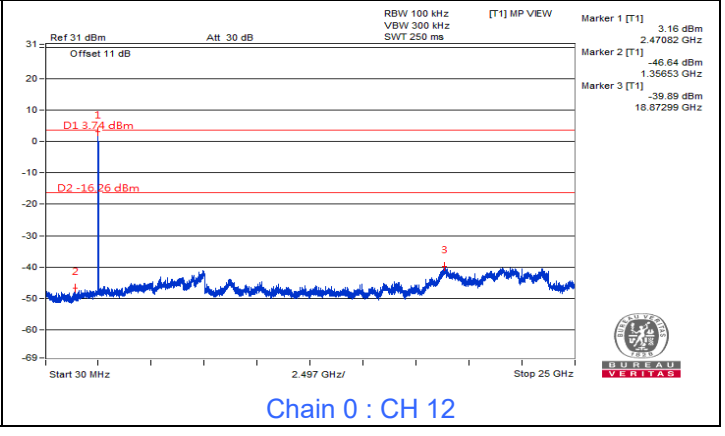
Chain 0 : CH 11



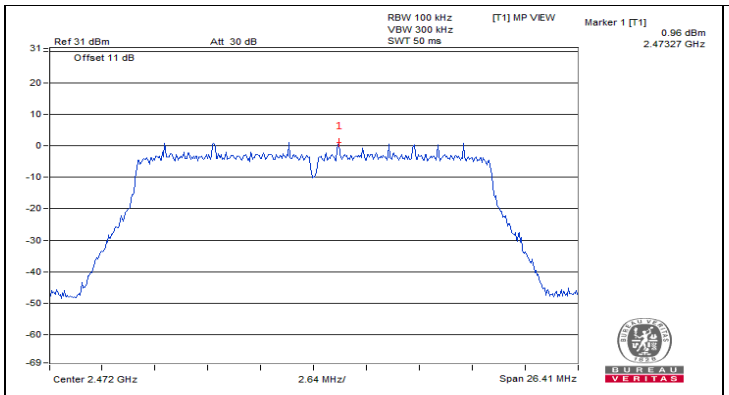
Chain 0 : CH 11



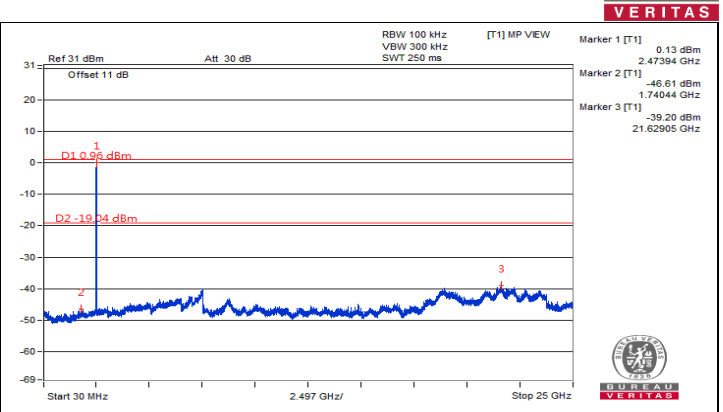
Chain 0 : CH 12



Chain 0 : CH 12



Chain 0 : CH 13



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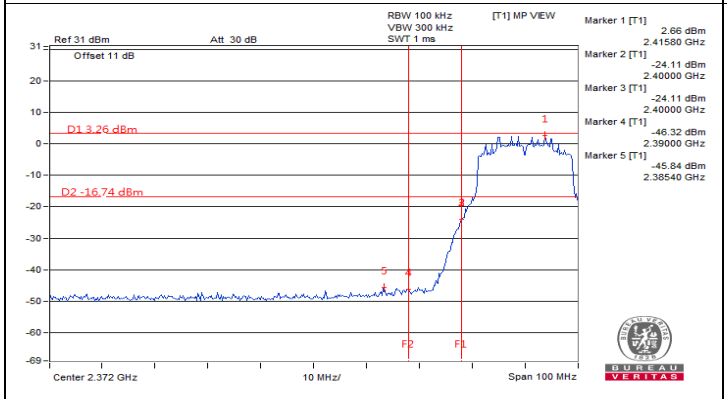
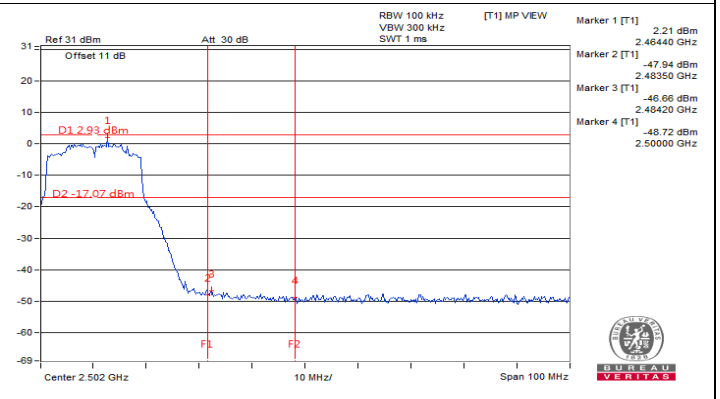
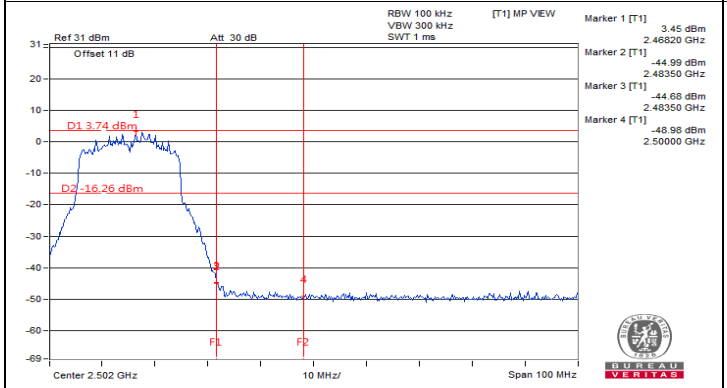


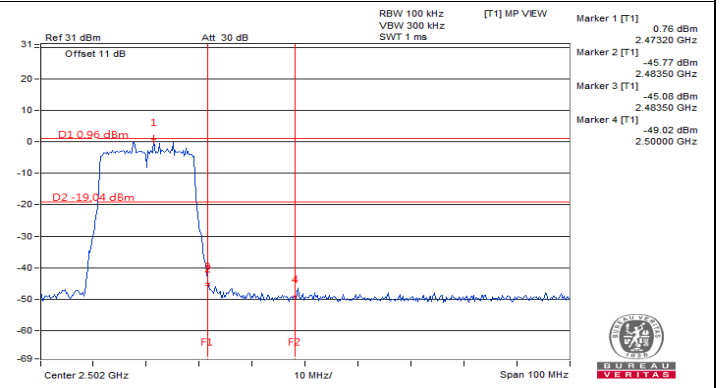
Chain 0 : CH 1 Band edge



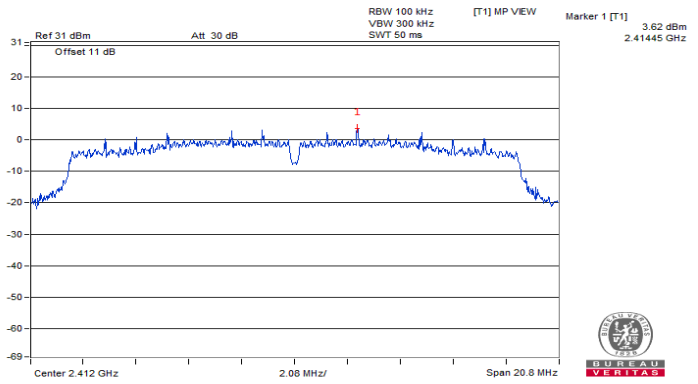
Chain 0 : CH 11 Band edge



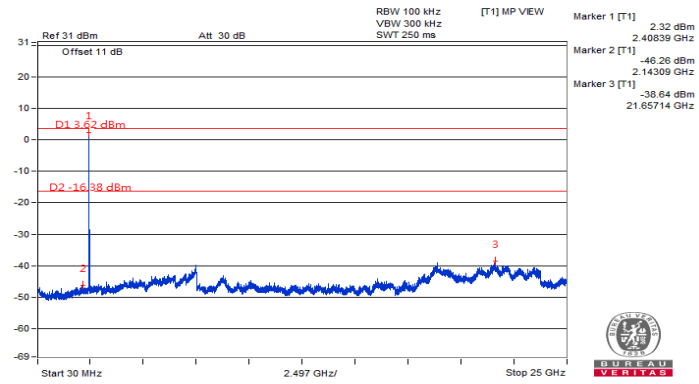
Chain 0 : CH 12 Band edge



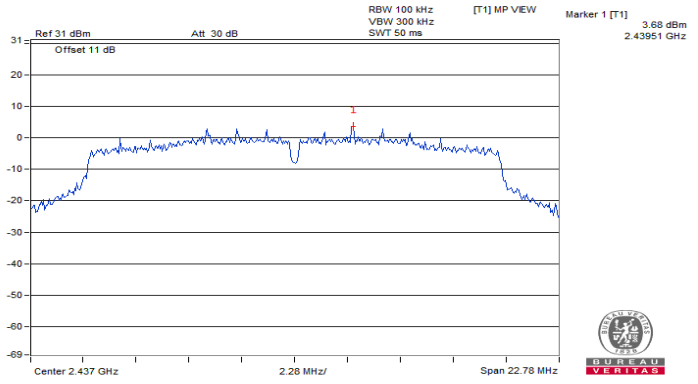
Chain 0 : CH 13 Band edge



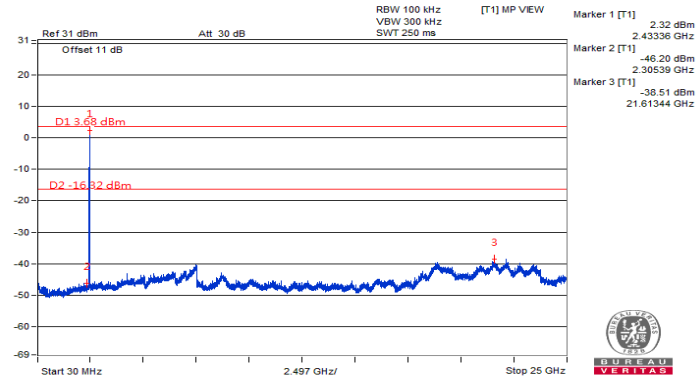
Chain 1 : CH 1



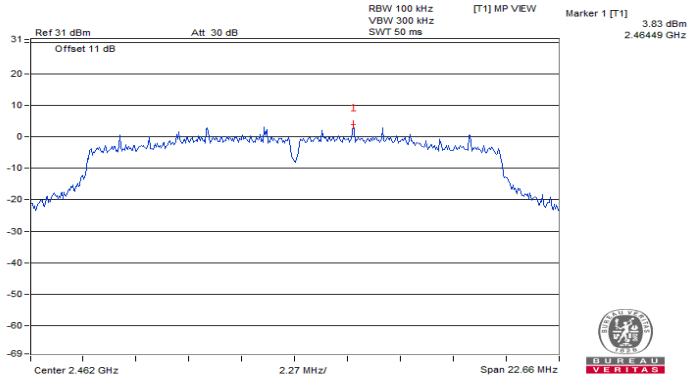
Chain 1 : CH 1



Chain 1 : CH 6

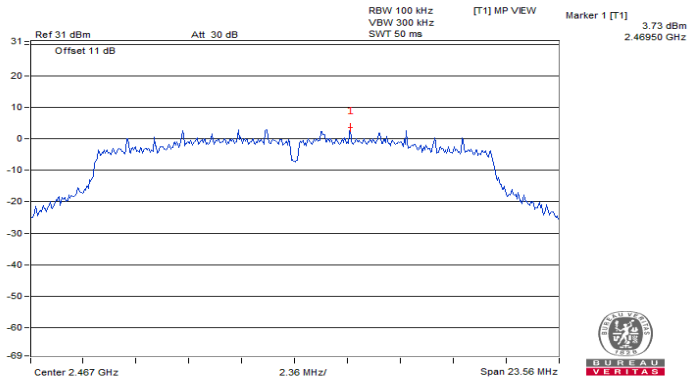


Chain 1 : CH 6

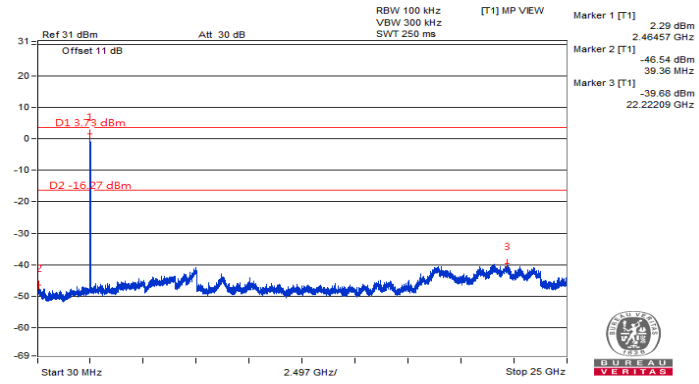


Chain 1 : CH 11

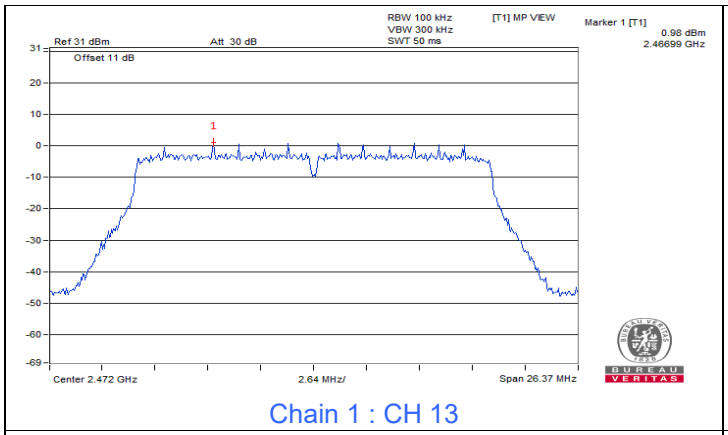
Chain 1 : CH 11



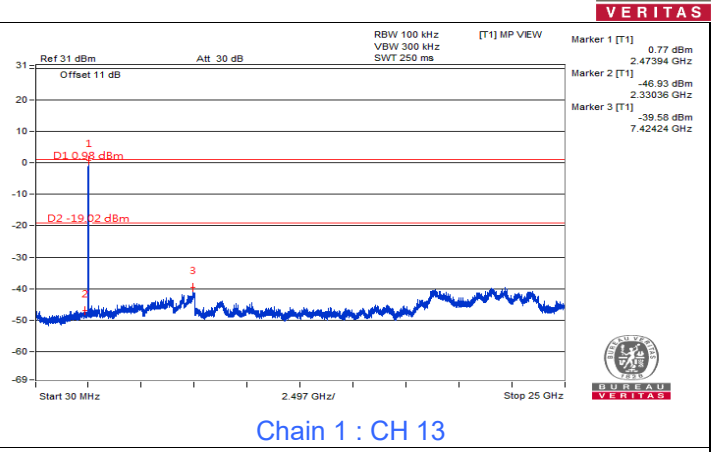
Chain 1 : CH 12



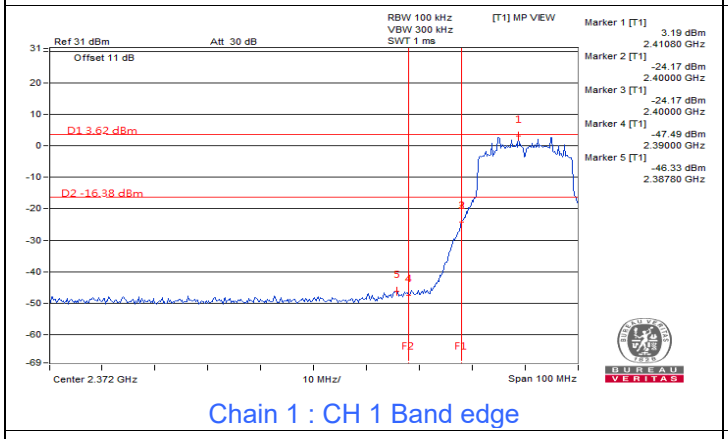
Chain 1 : CH 12



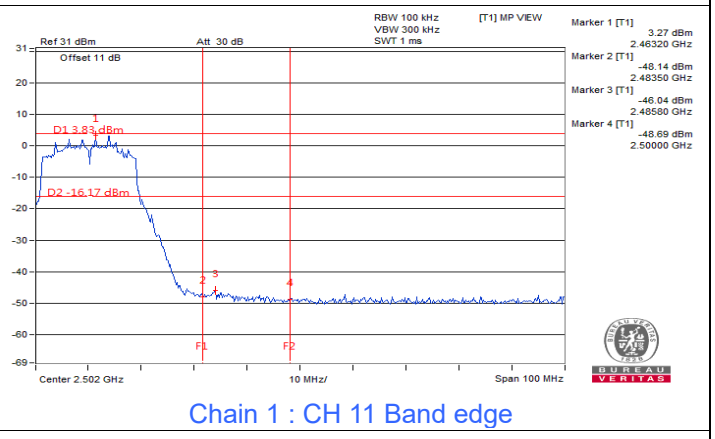
Chain 1 : CH 13



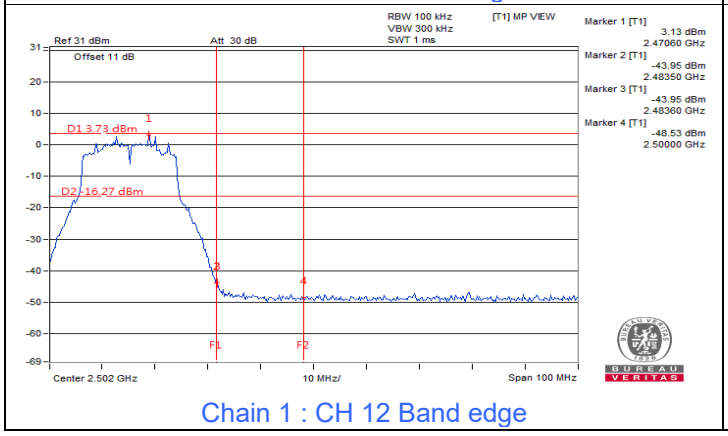
Chain 1 : CH 13



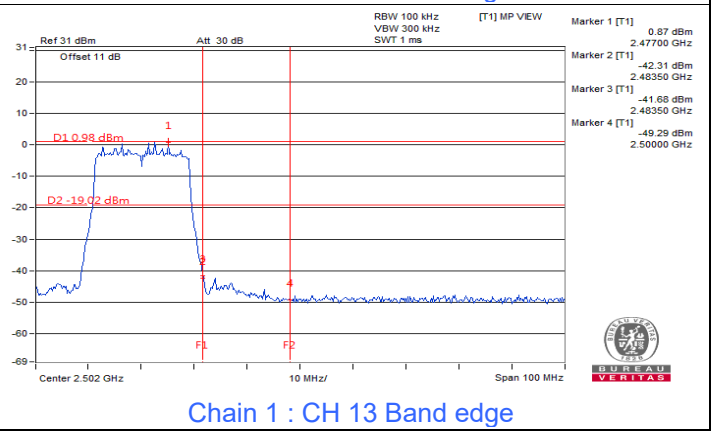
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge

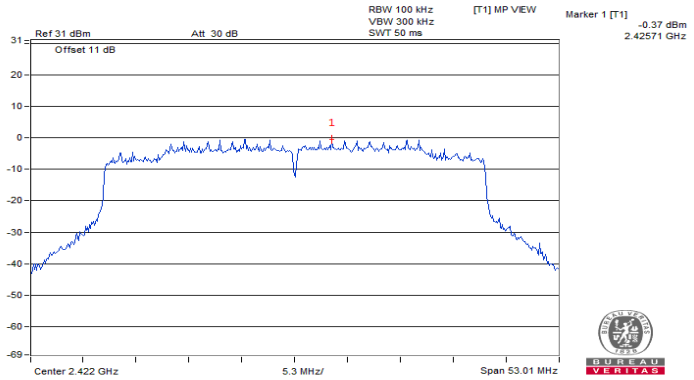


Chain 1 : CH 12 Band edge

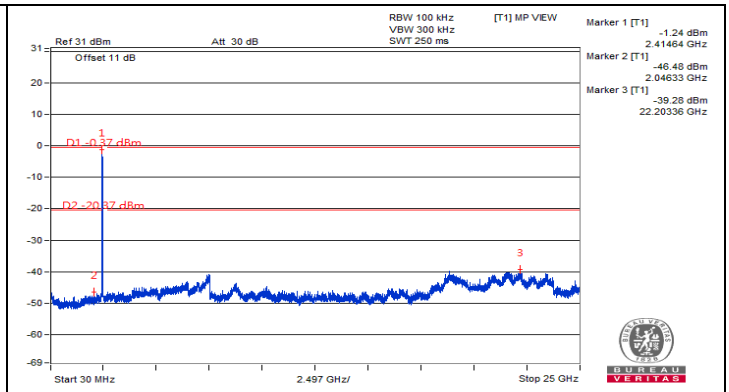


Chain 1 : CH 13 Band edge

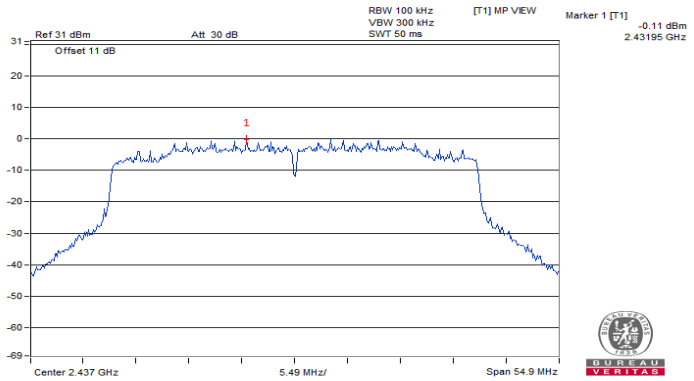
802.11n (HT40)



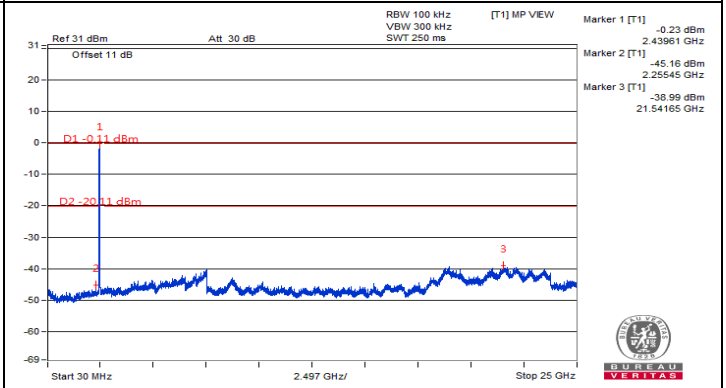
Chain 0 : CH 3



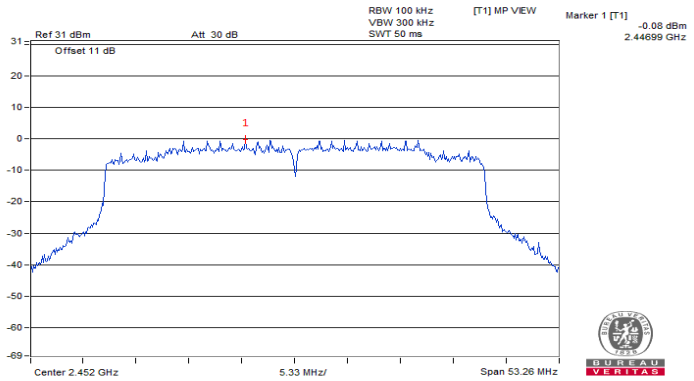
Chain 0 : CH 3



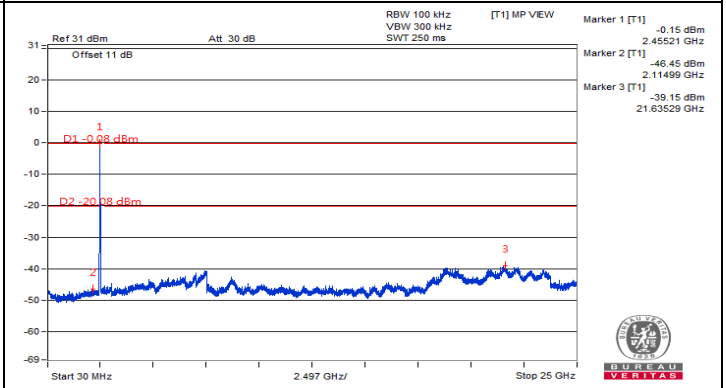
Chain 0 : CH 6



Chain 0 : CH 6



Chain 0 : CH 9



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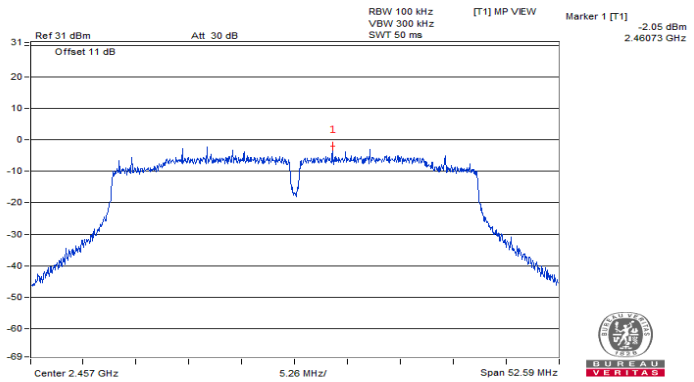
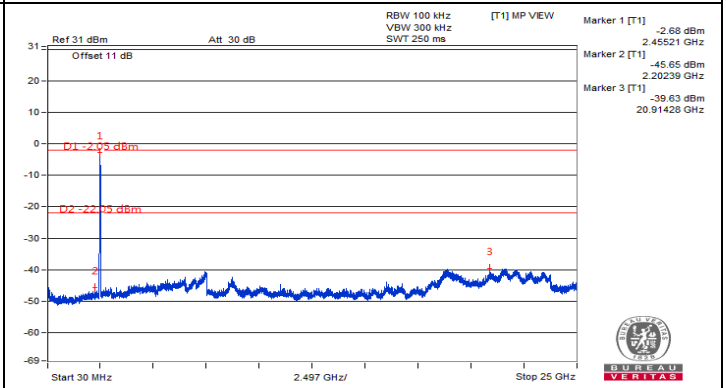
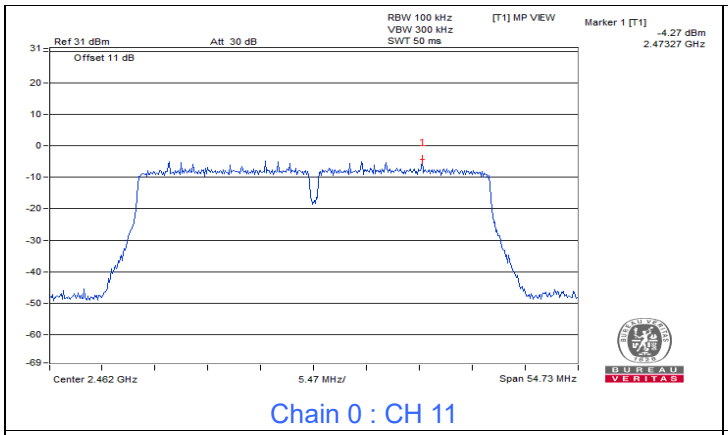


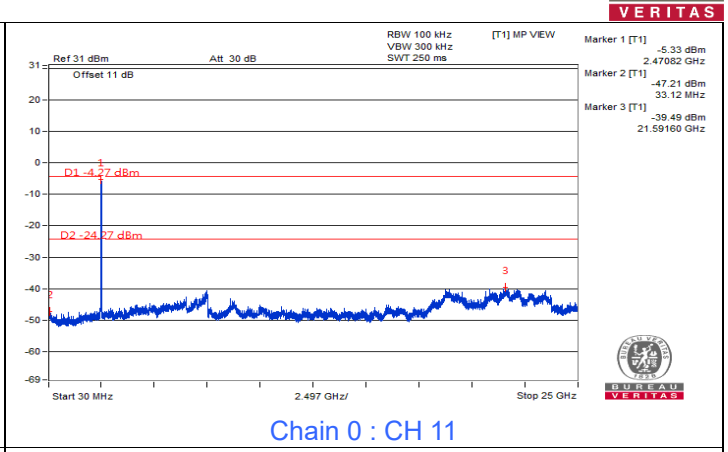
Chain 0 : CH 10



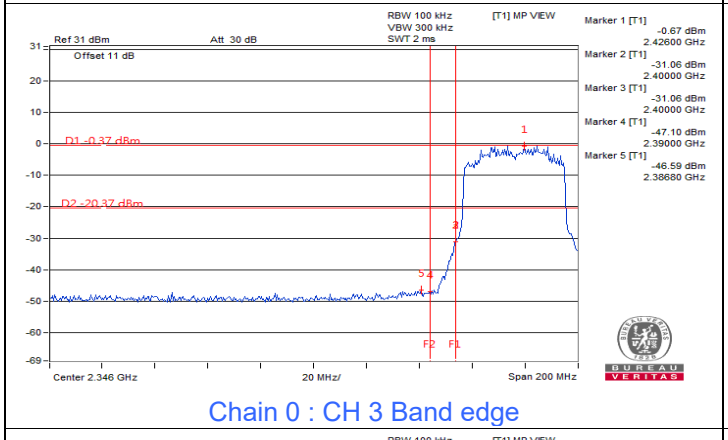
Chain 0 : CH 10



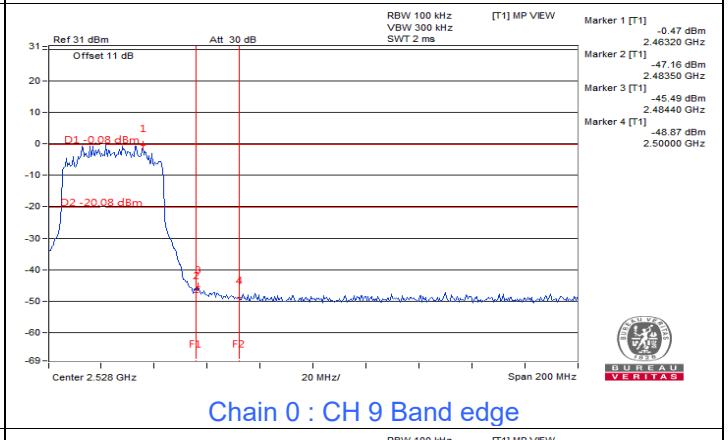
Chain 0 : CH 11



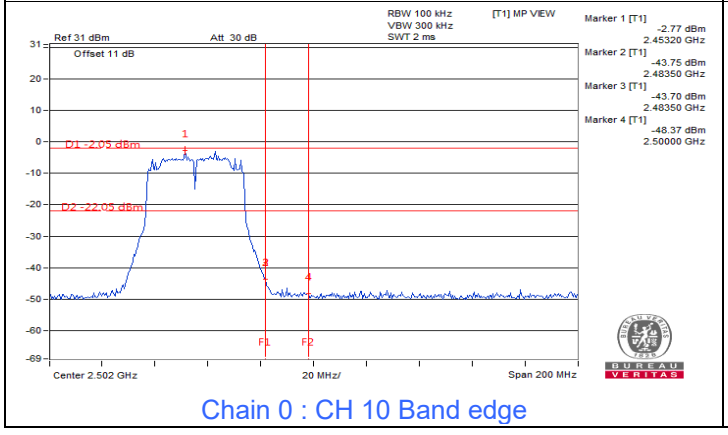
Chain 0 : CH 11



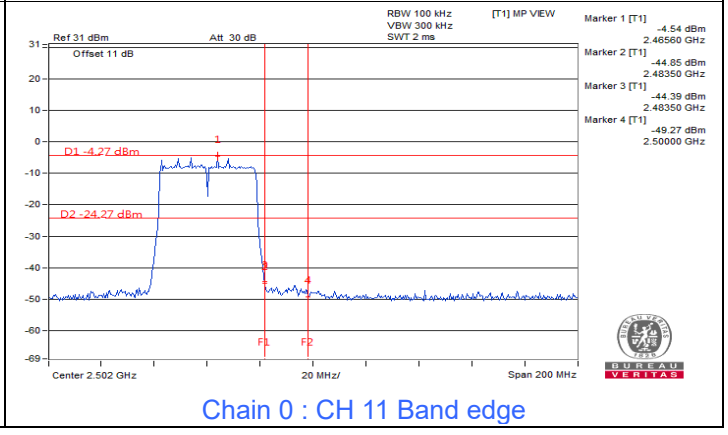
Chain 0 : CH 3 Band edge



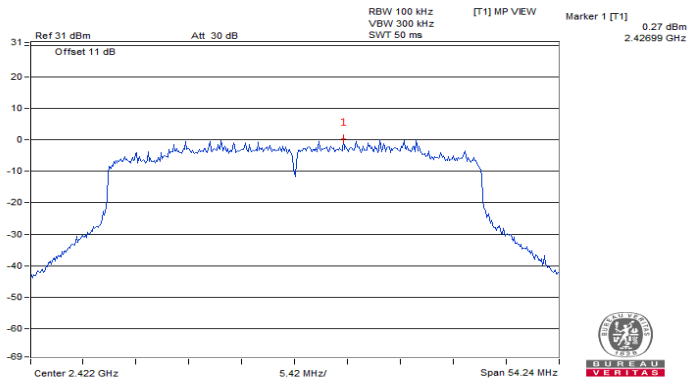
Chain 0 : CH 9 Band edge



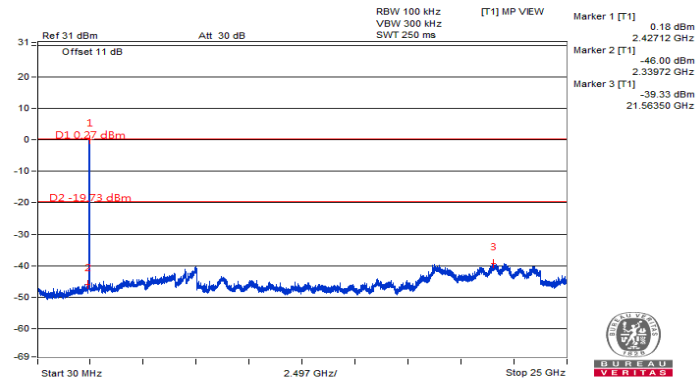
Chain 0 : CH 10 Band edge



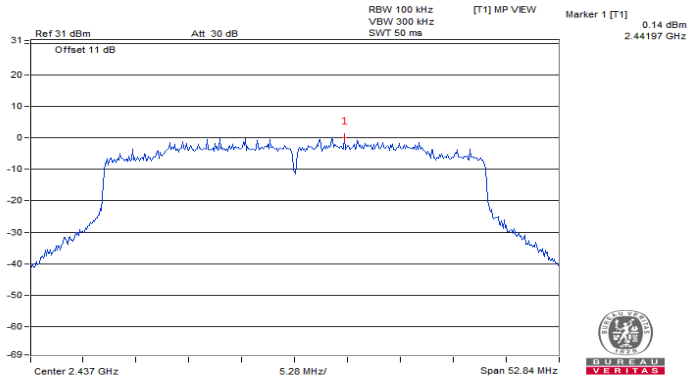
Chain 0 : CH 11 Band edge



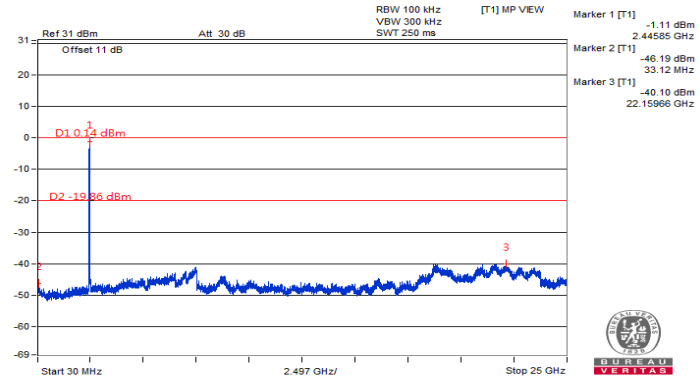
Chain 1 : CH 3



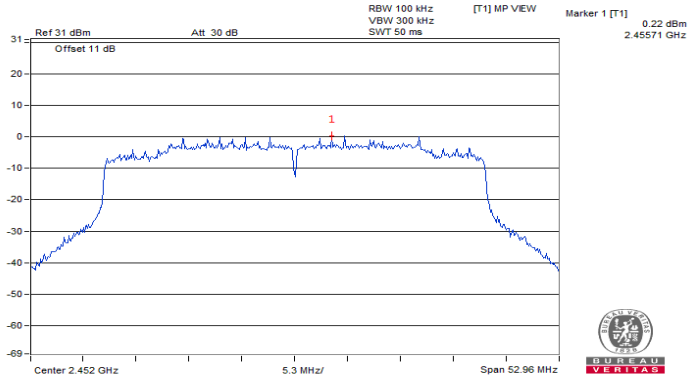
Chain 1 : CH 3



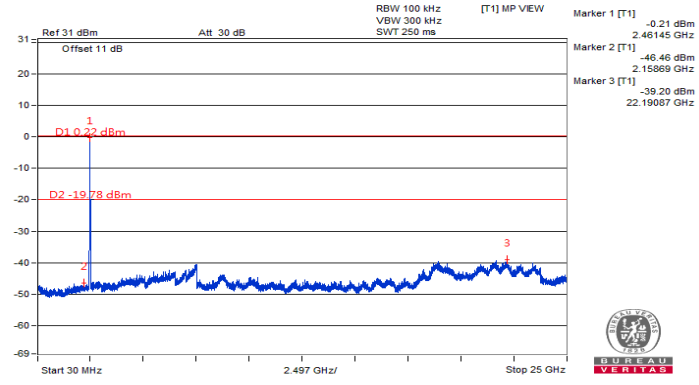
Chain 1 : CH 6



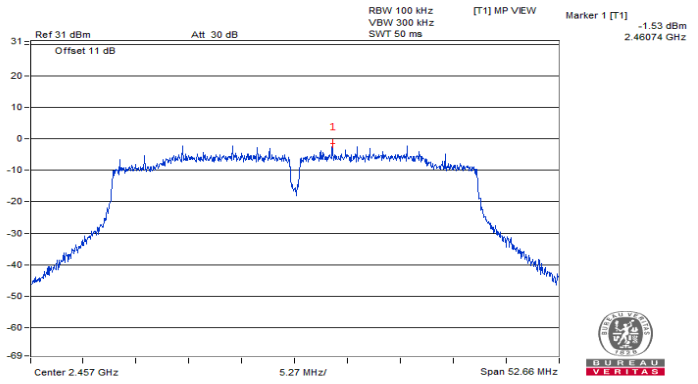
Chain 1 : CH 6



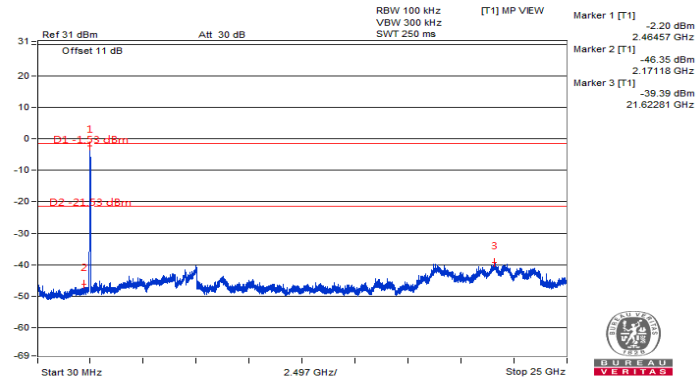
Chain 1 : CH 9



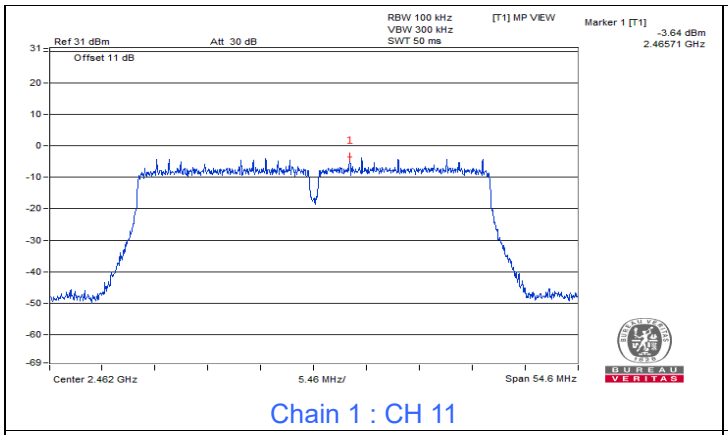
Chain 1 : CH 9



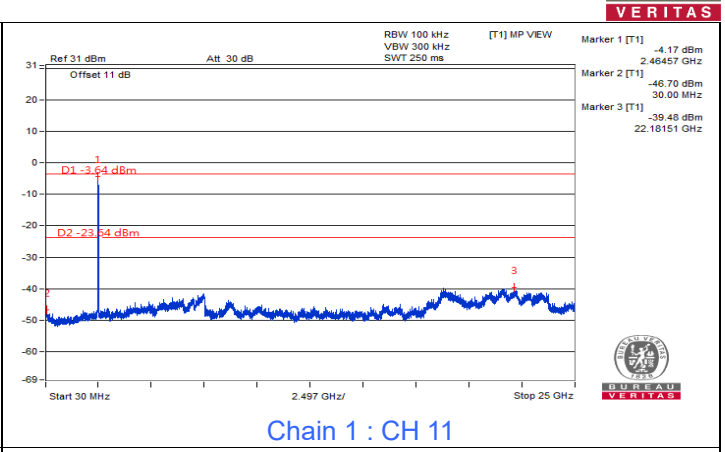
Chain 1 : CH 10



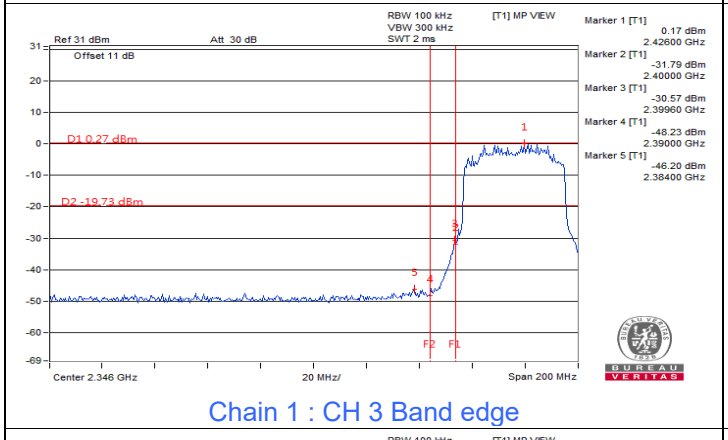
Chain 1 : CH 10



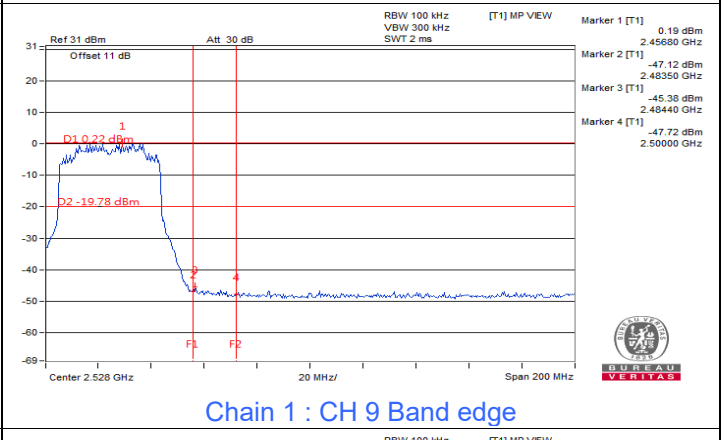
Chain 1 : CH 11



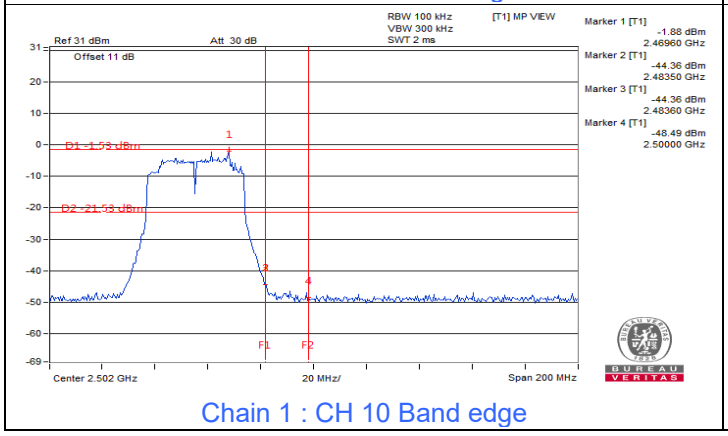
Chain 1 : CH 11



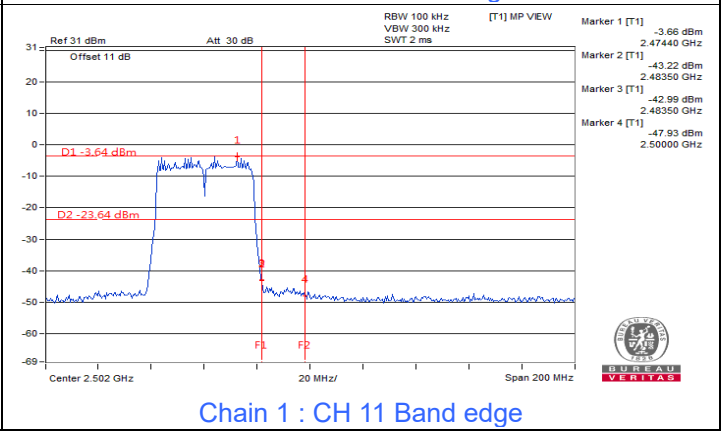
Chain 1 : CH 3 Band edge



Chain 1 : CH 9 Band edge

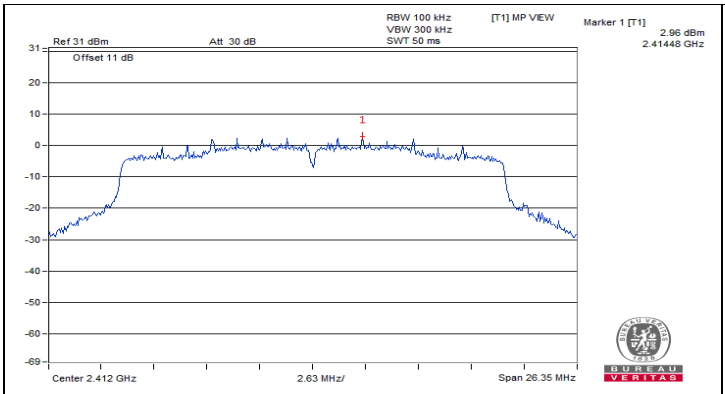


Chain 1 : CH 10 Band edge

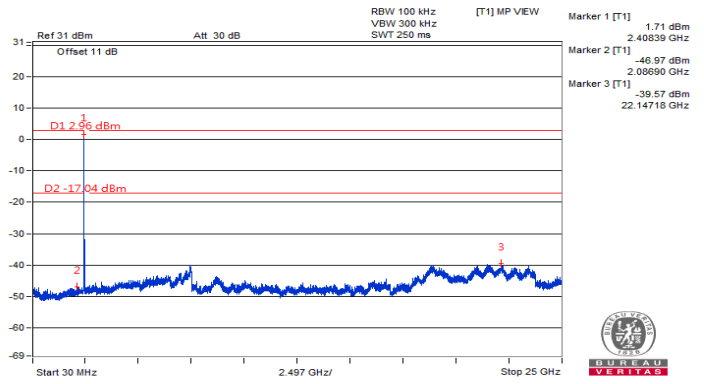


Chain 1 : CH 11 Band edge

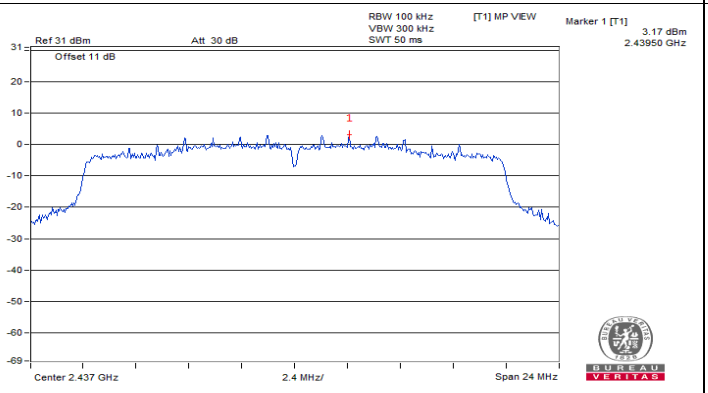
802.11ax (HE20) Full RU



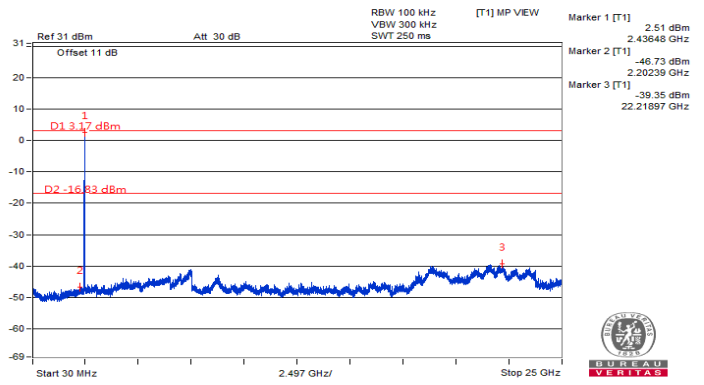
Chain 0 : CH 1



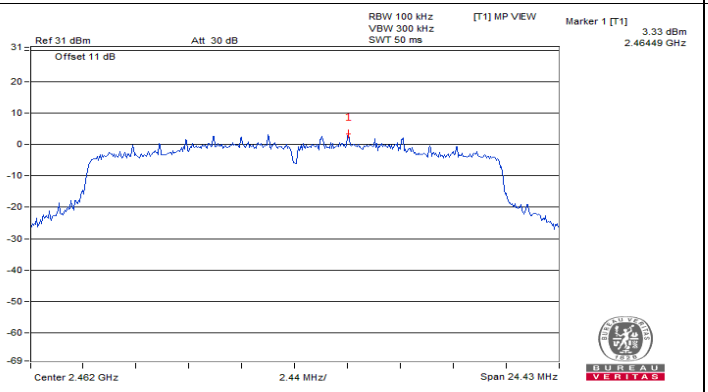
Chain 0 : CH 1



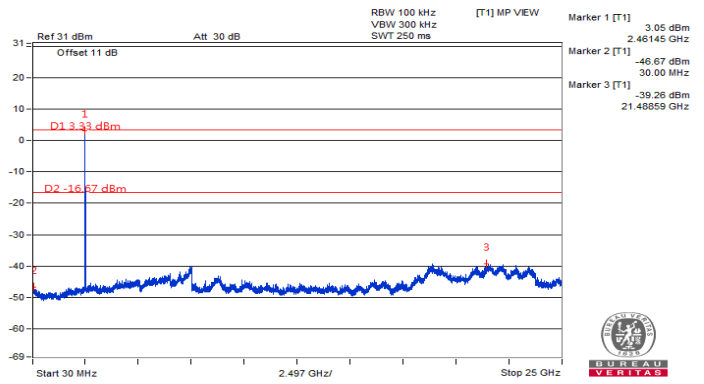
Chain 0 : CH 6



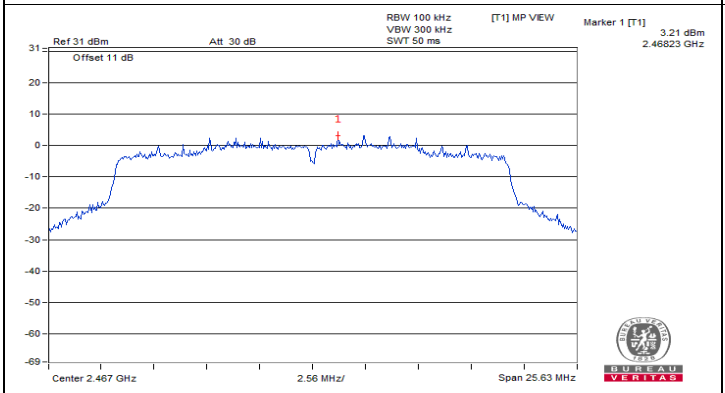
Chain 0 : CH 6



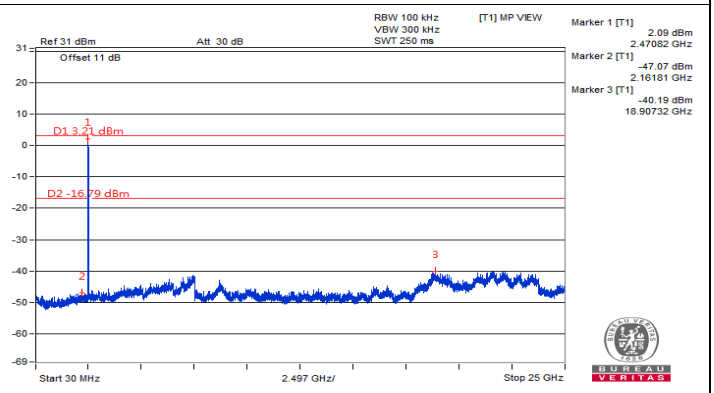
Chain 0 : CH 11



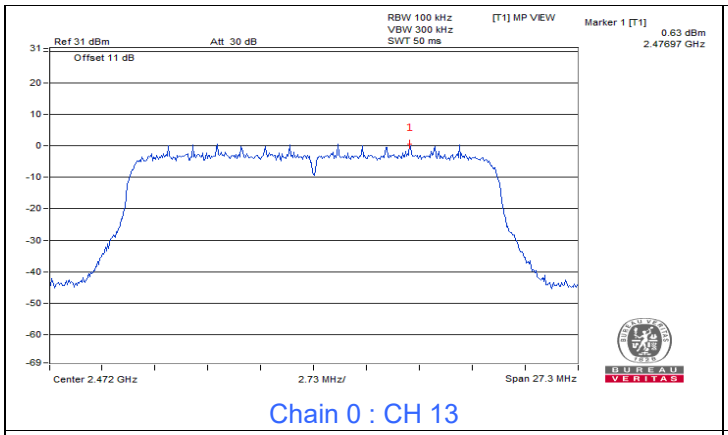
Chain 0 : CH 11



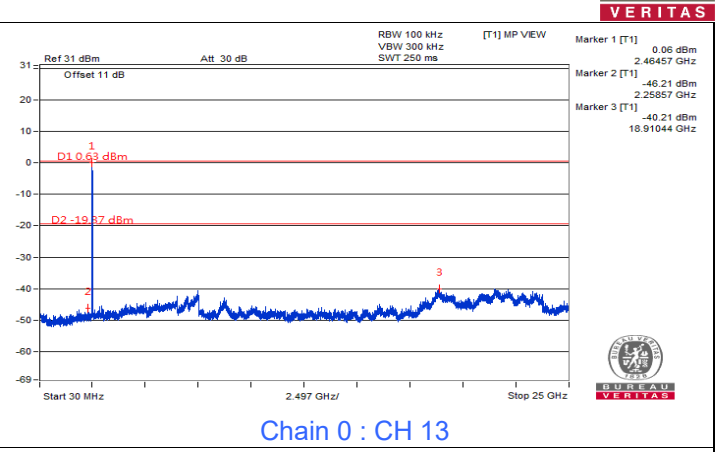
Chain 0 : CH 12



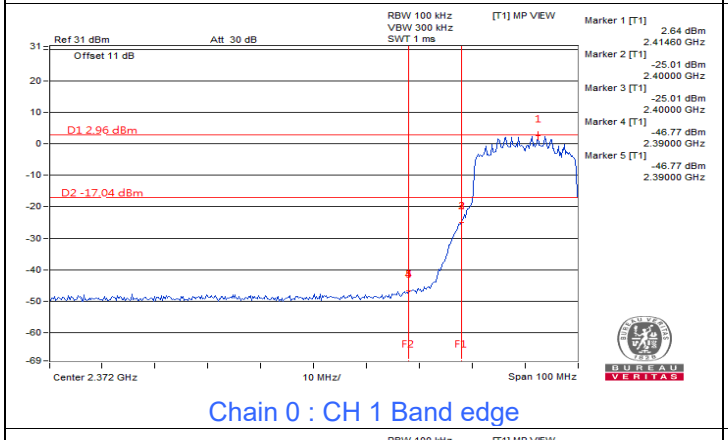
Chain 0 : CH 12



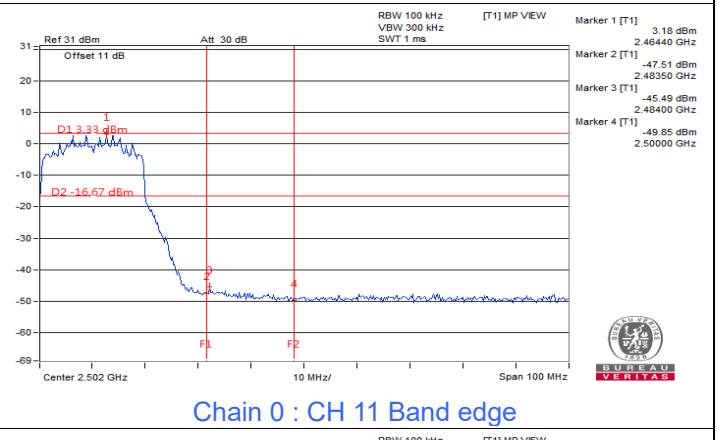
Chain 0 : CH 13



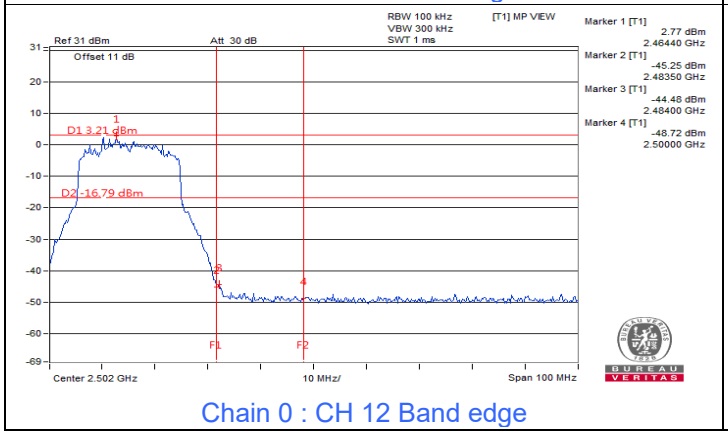
Chain 0 : CH 13



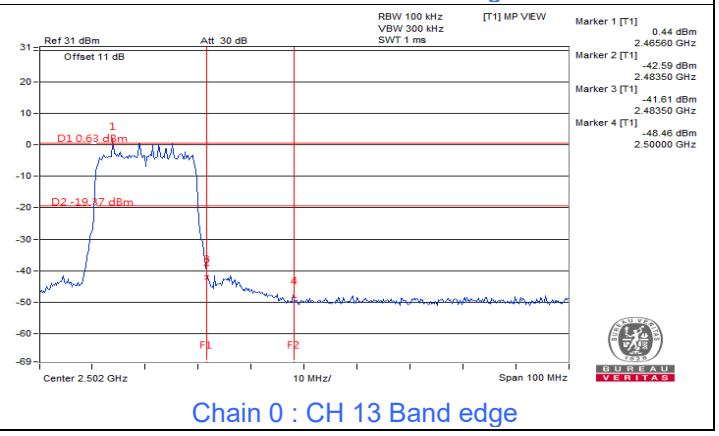
Chain 0 : CH 1 Band edge



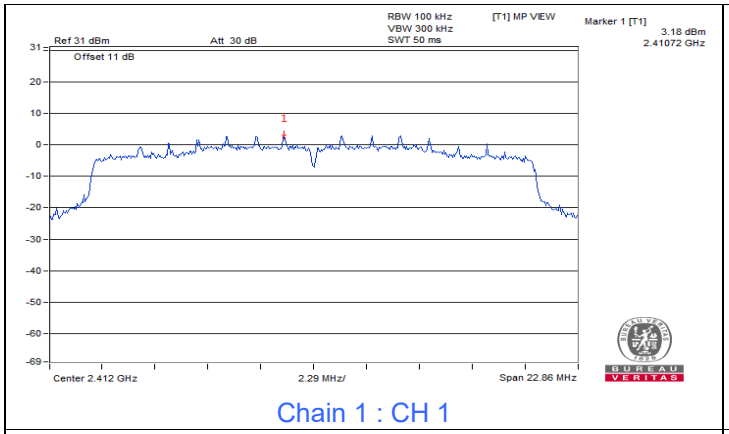
Chain 0 : CH 11 Band edge



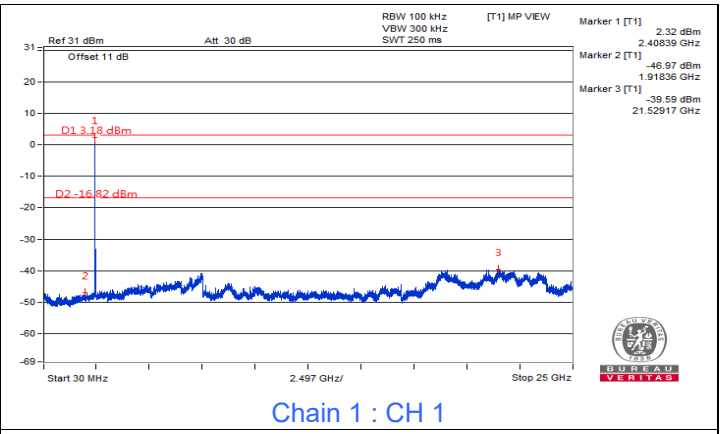
Chain 0 : CH 12 Band edge



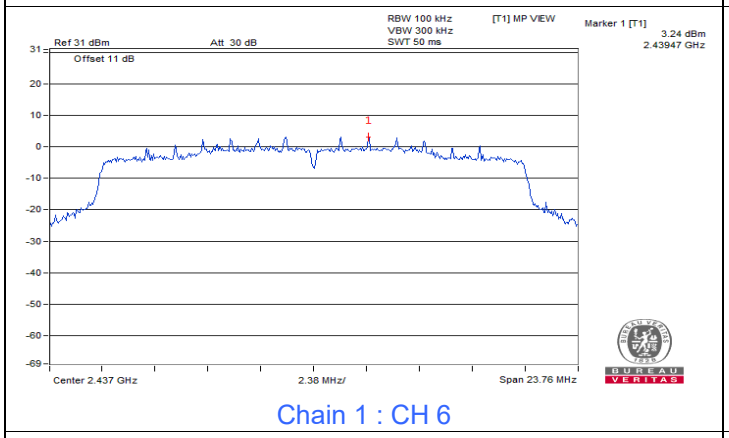
Chain 0 : CH 13 Band edge



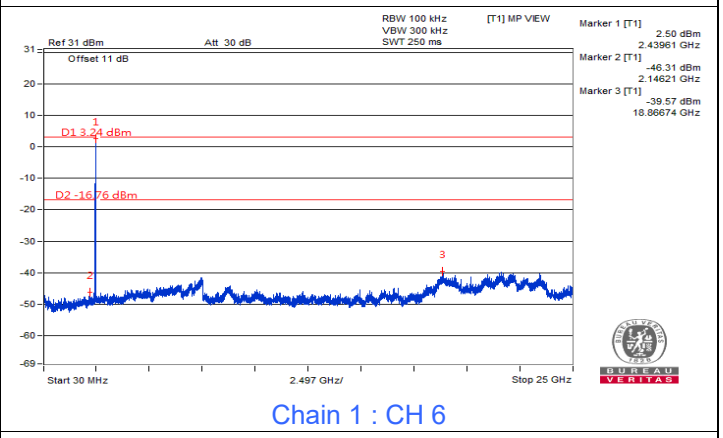
Chain 1 : CH 1



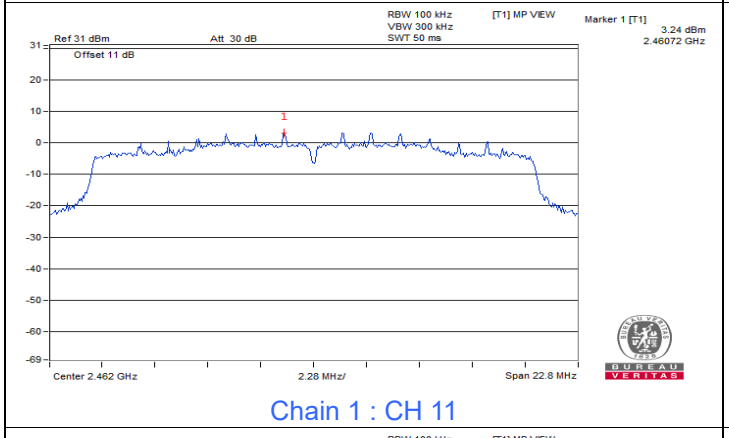
Chain 1 : CH 1



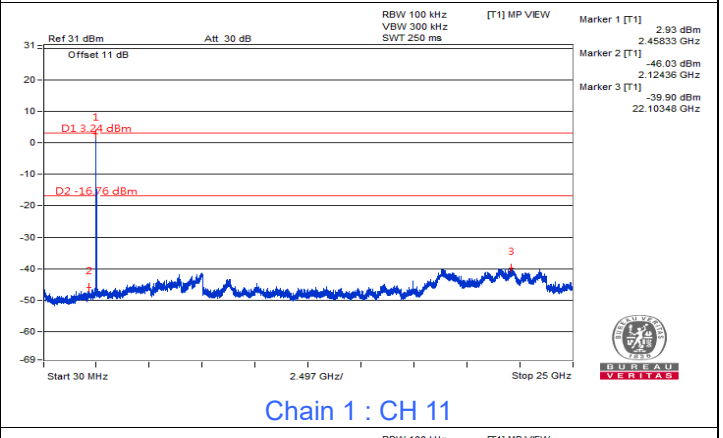
Chain 1 : CH 6



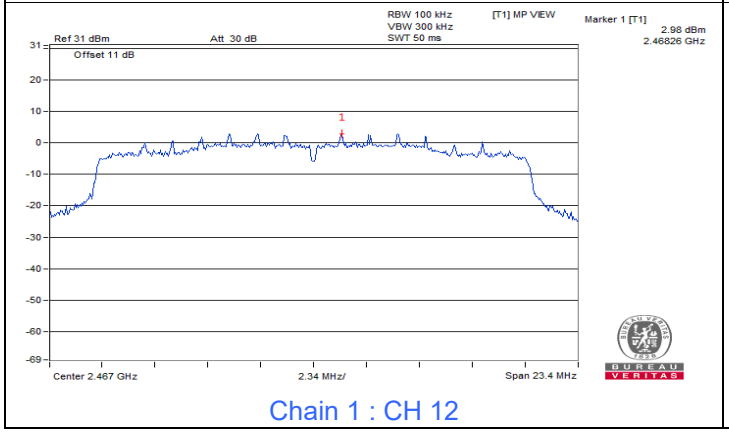
Chain 1 : CH 6



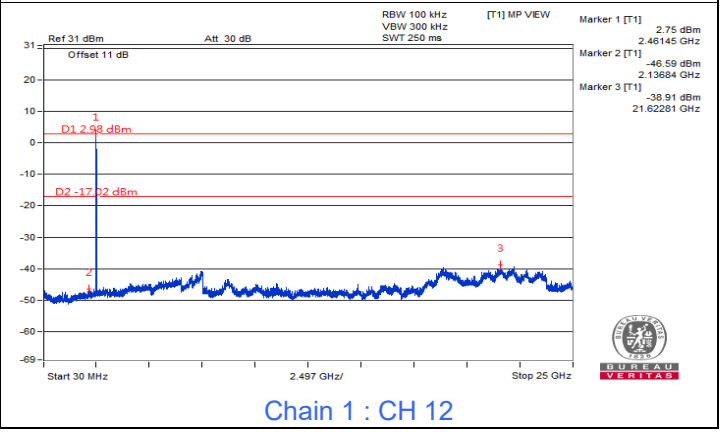
Chain 1 : CH 11



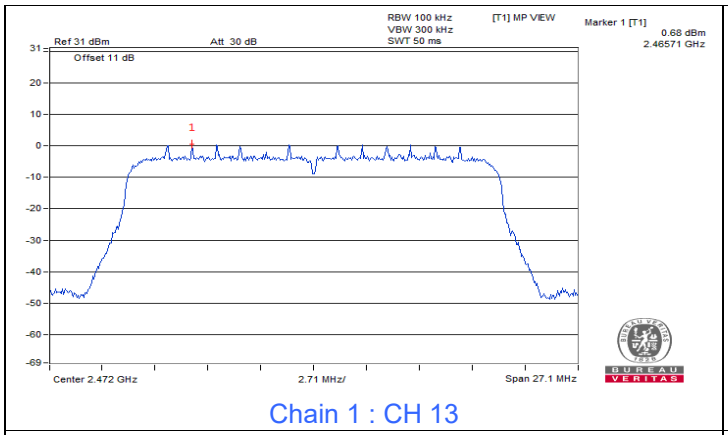
Chain 1 : CH 11



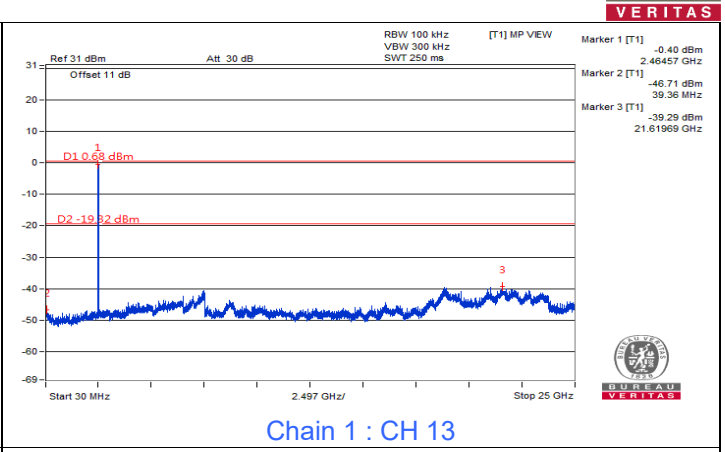
Chain 1 : CH 12



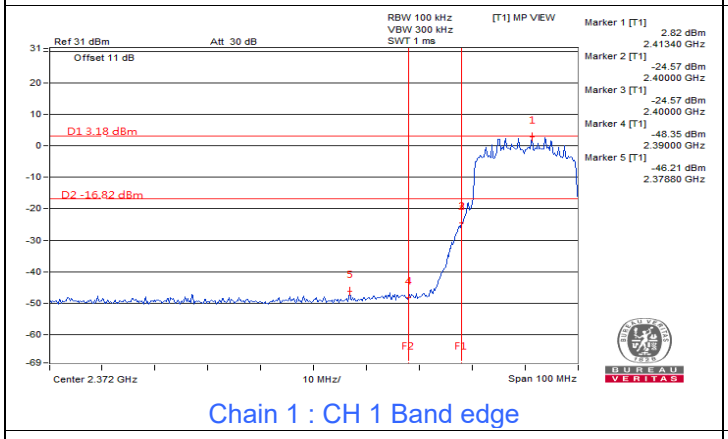
Chain 1 : CH 12



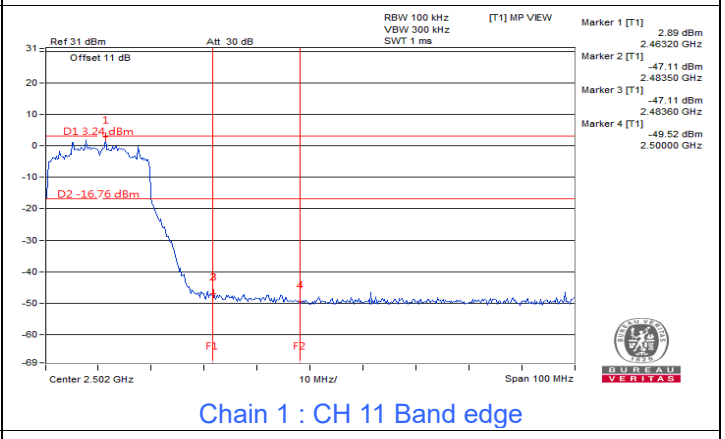
Chain 1 : CH 13



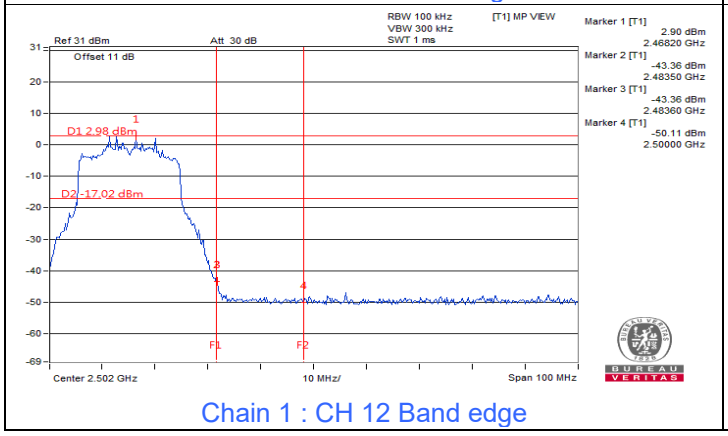
Chain 1 : CH 13



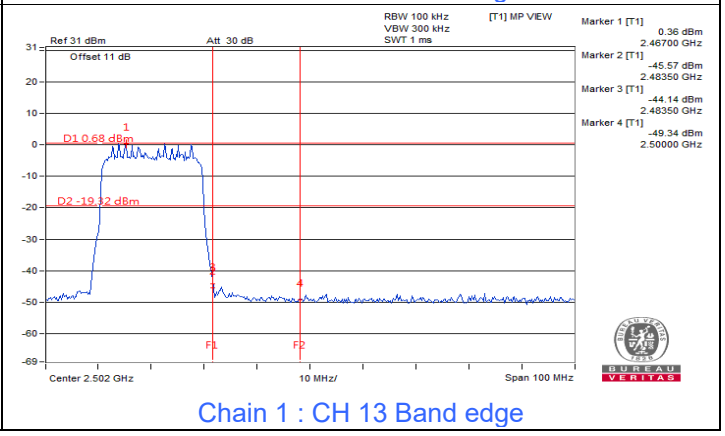
Chain 1 : CH 1 Band edge



Chain 1 : CH 11 Band edge

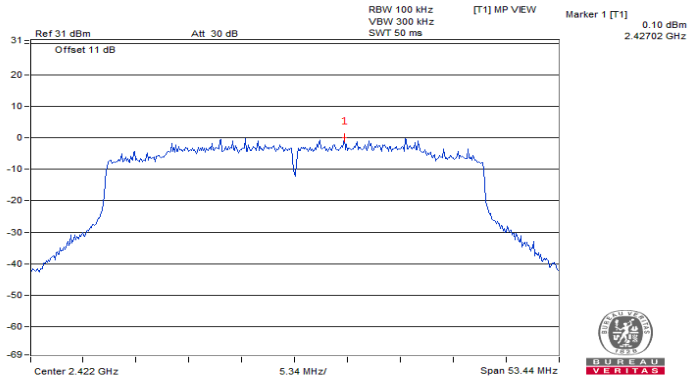


Chain 1 : CH 12 Band edge

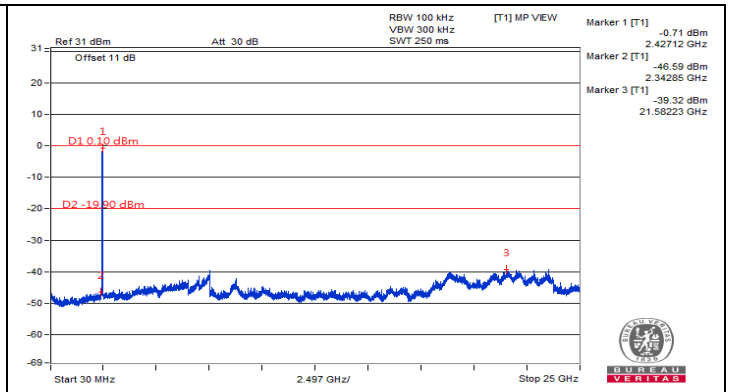


Chain 1 : CH 13 Band edge

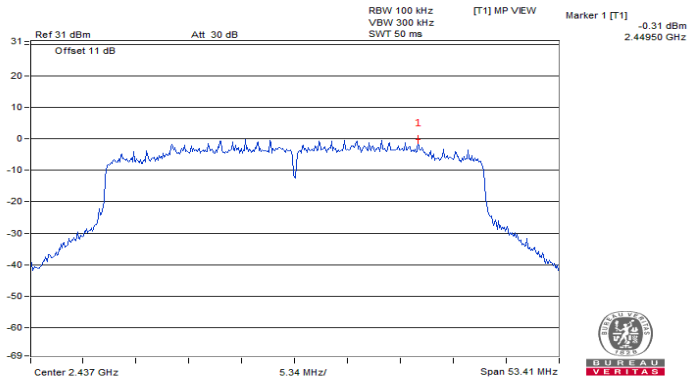
802.11ax (HE40) Full RU



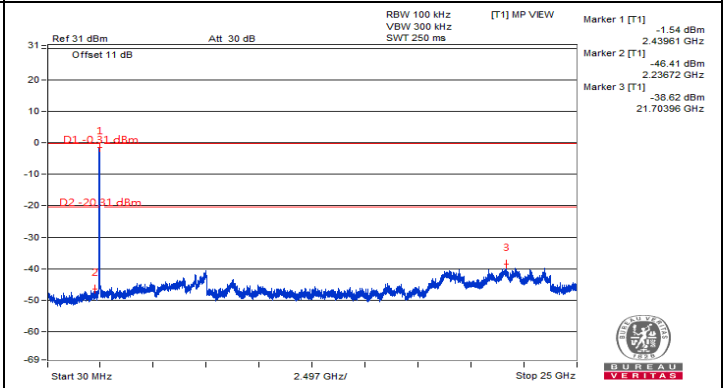
Chain 0 : CH 3



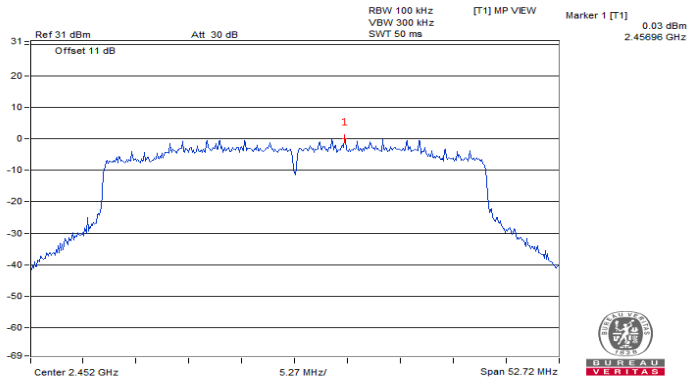
Chain 0 : CH 3



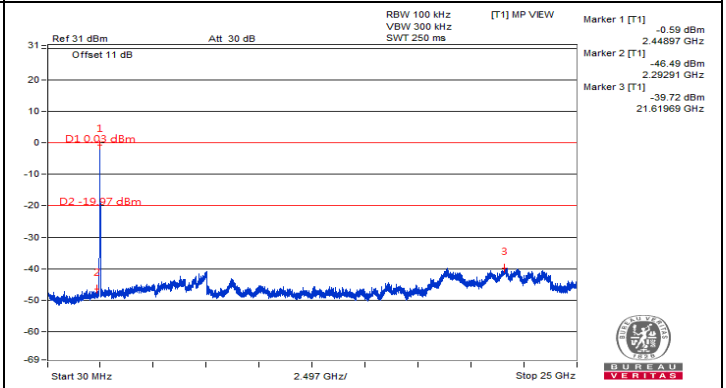
Chain 0 : CH 6



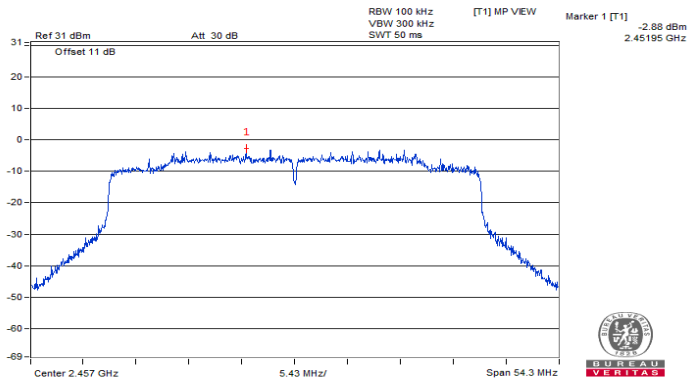
Chain 0 : CH 6



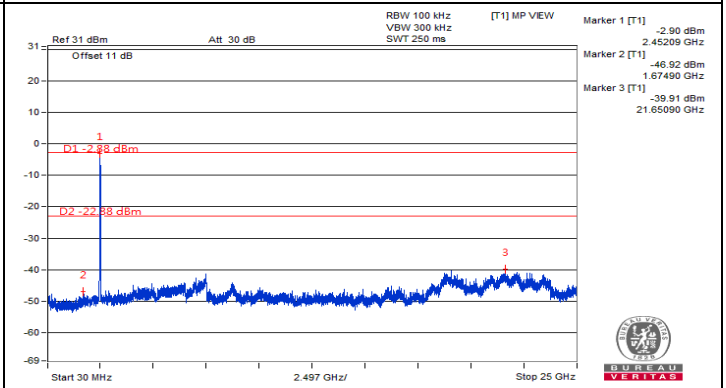
Chain 0 : CH 9



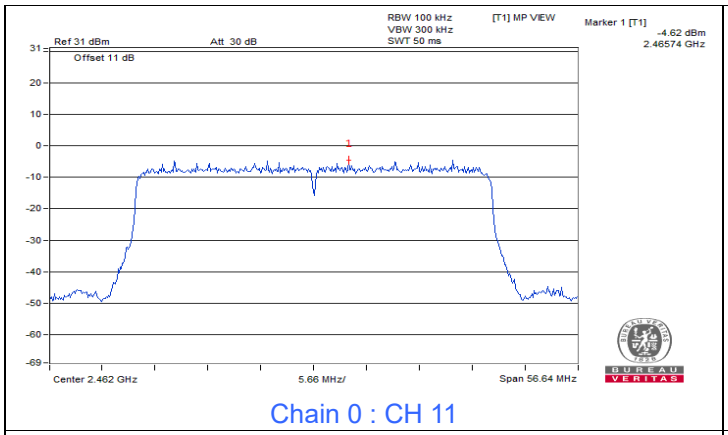
Chain 0 : CH 9



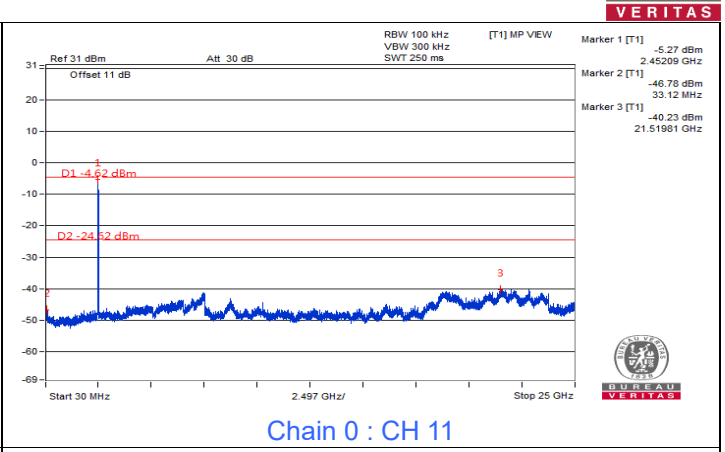
Chain 0 : CH 10



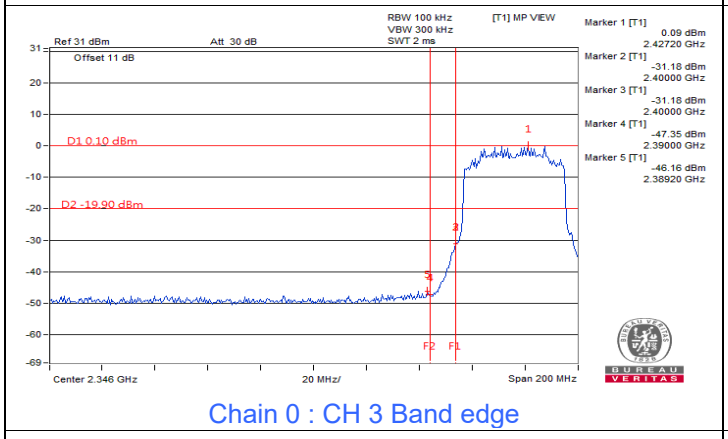
Chain 0 : CH 10



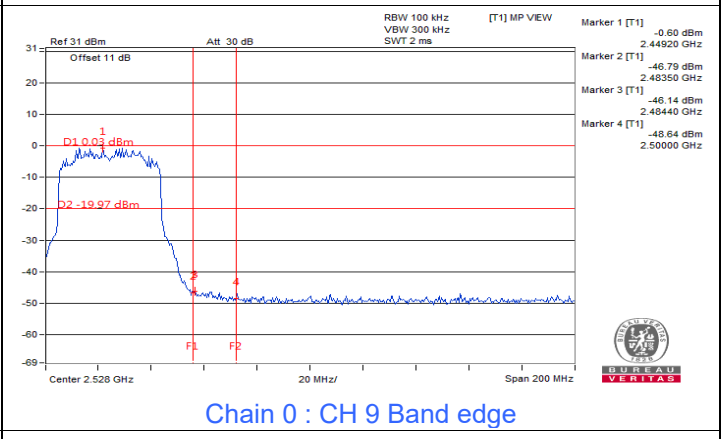
Chain 0 : CH 11



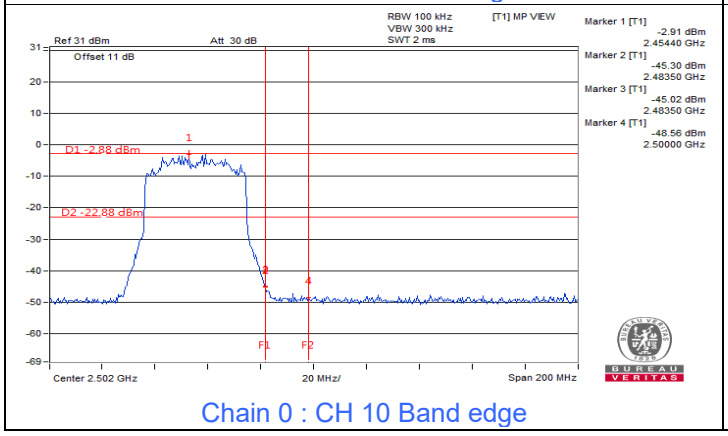
Chain 0 : CH 11



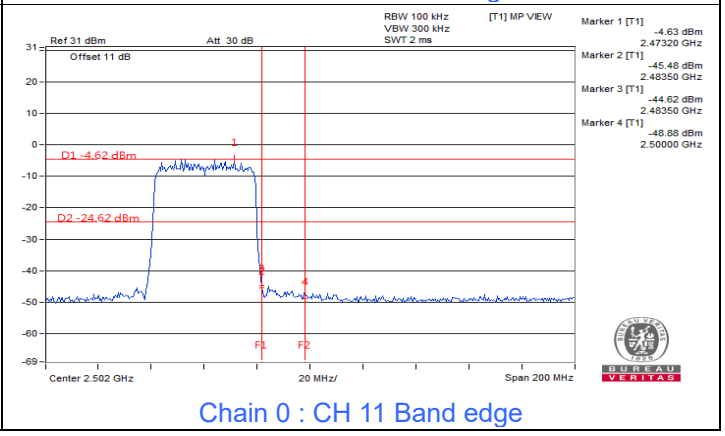
Chain 0 : CH 3 Band edge



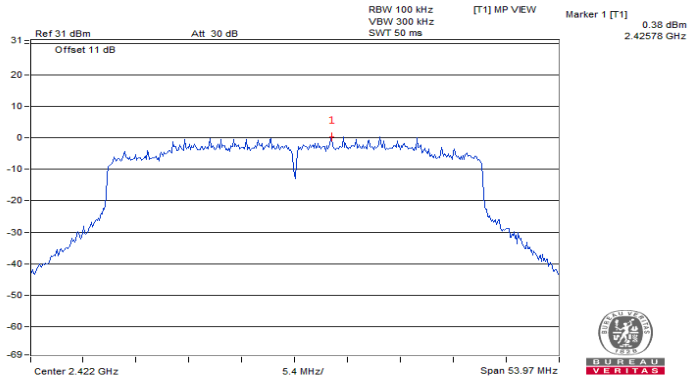
Chain 0 : CH 9 Band edge



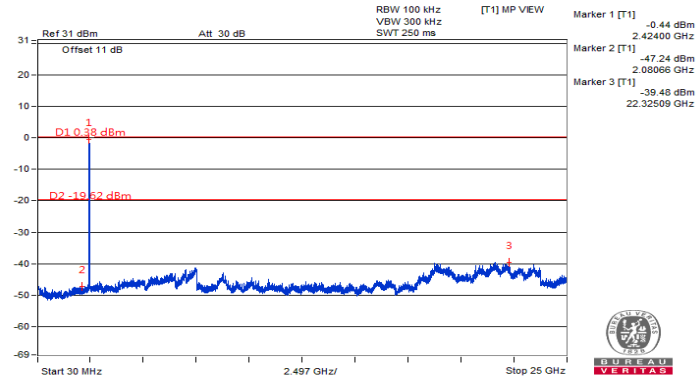
Chain 0 : CH 10 Band edge



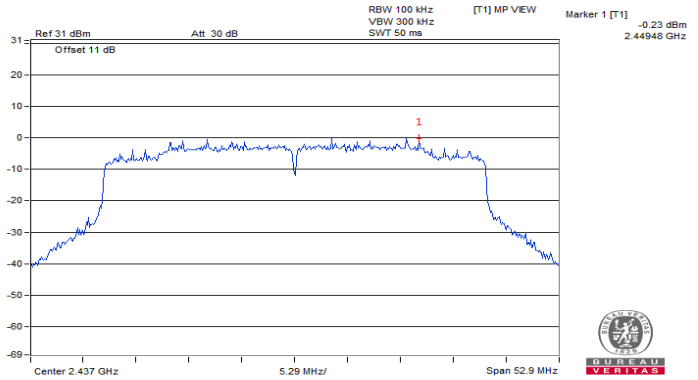
Chain 0 : CH 11 Band edge



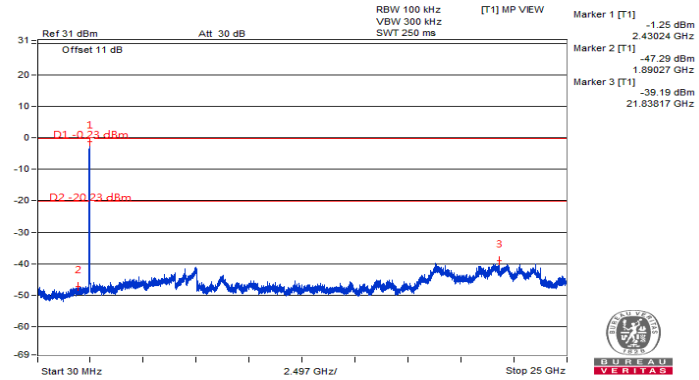
Chain 1 : CH 3



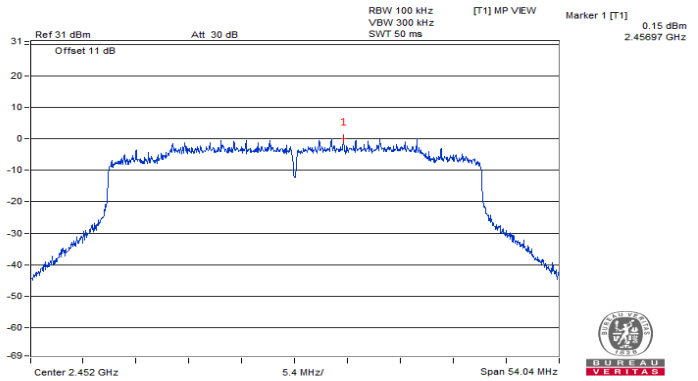
Chain 1 : CH 3



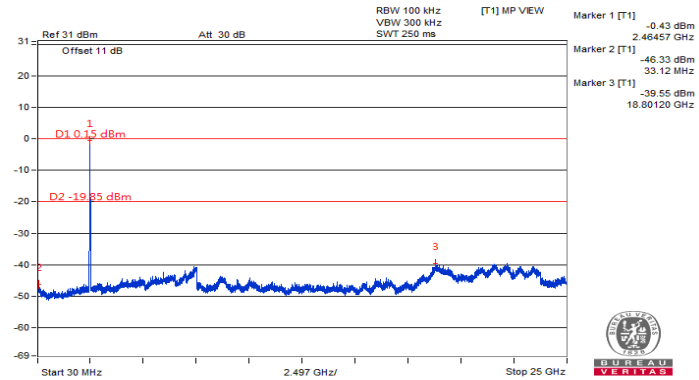
Chain 1 : CH 6



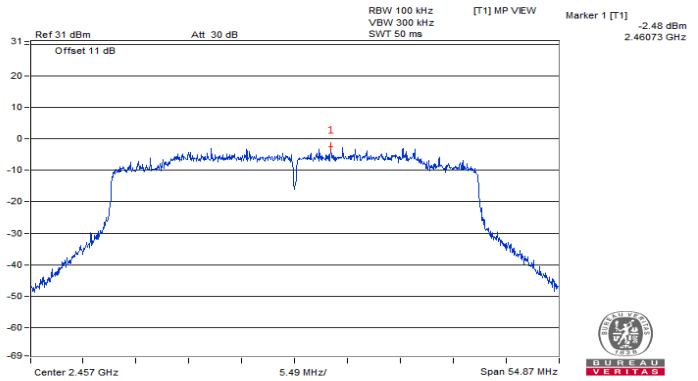
Chain 1 : CH 6



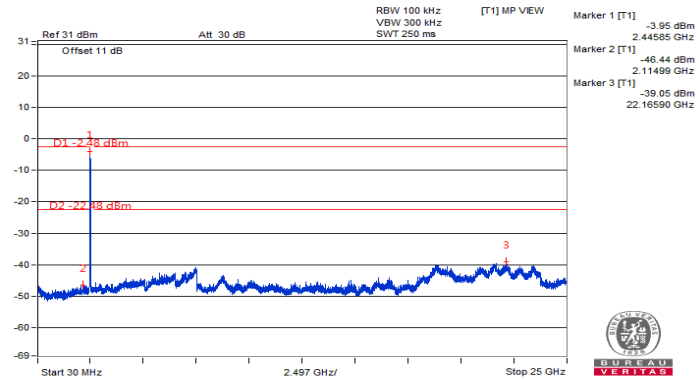
Chain 1 : CH 9



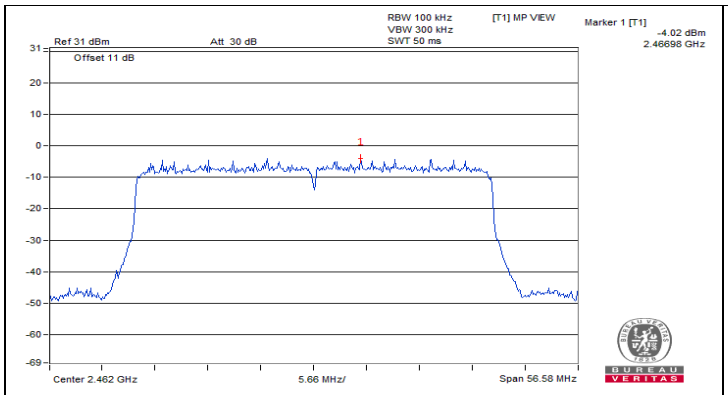
Chain 1 : CH 9



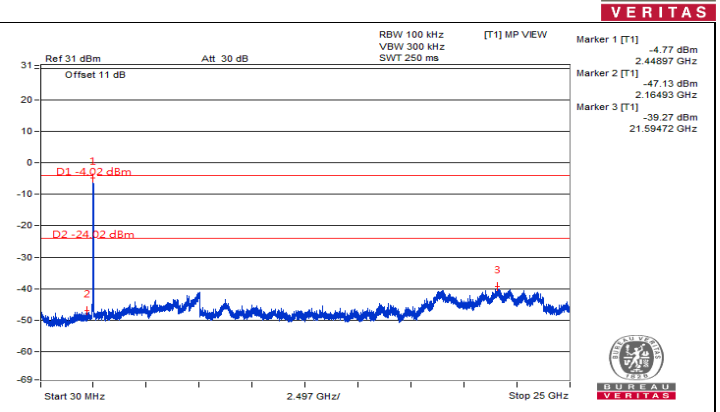
Chain 1 : CH 10



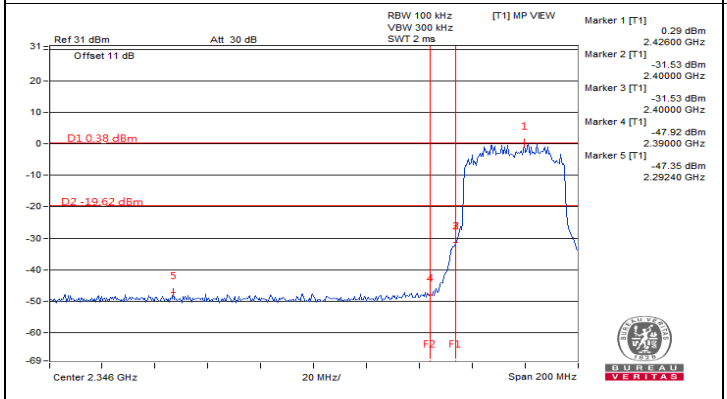
Chain 1 : CH 10



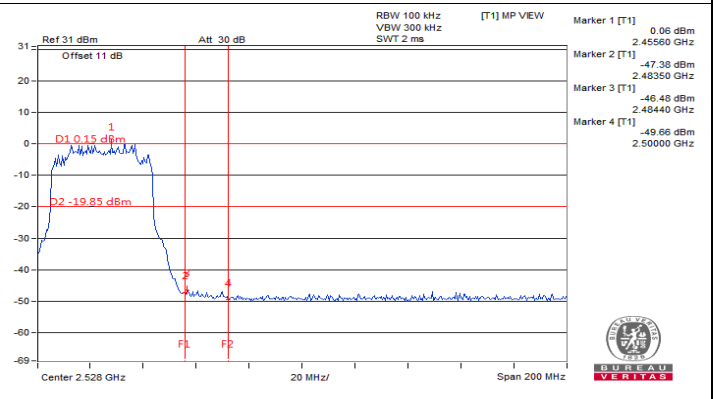
Chain 1 : CH 11



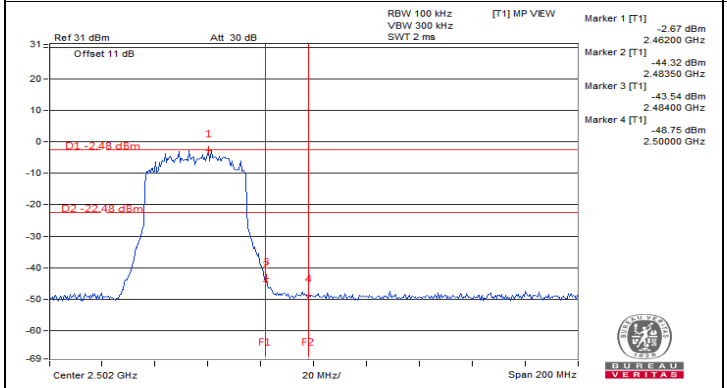
Chain 1 : CH 11



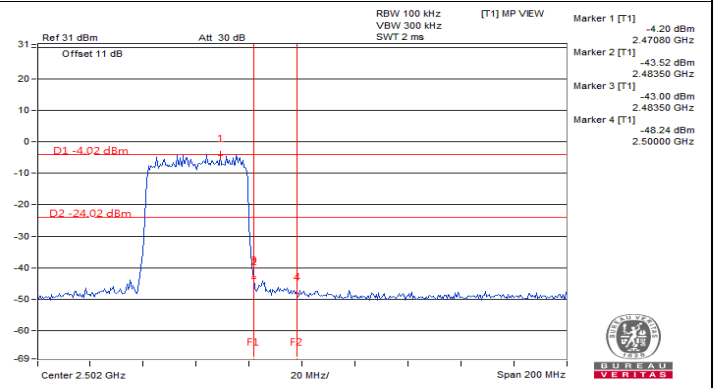
Chain 1 : CH 3 Band edge



Chain 1 : CH 9 Band edge



Chain 1 : CH 10 Band edge



Chain 1 : CH 11 Band edge

7.5 AC Power Conducted Emissions

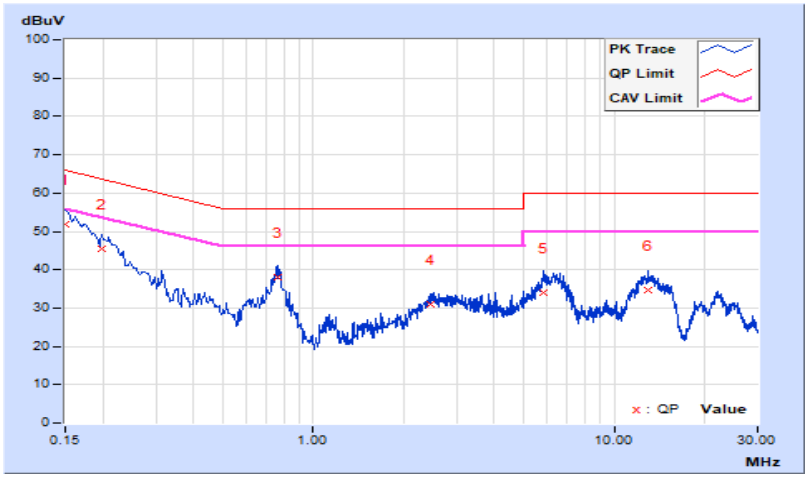
MIMO

RF Mode	802.11ax (HE40) Full RU	Channel	CH 9：2452 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Vincent Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.37	41.33	28.37	51.70	38.74	66.00	56.00	-14.30	-17.26
2	0.19800	10.40	34.97	23.32	45.37	33.72	63.69	53.69	-18.32	-19.97
3	0.75800	10.52	27.55	20.58	38.07	31.10	56.00	46.00	-17.93	-14.90
4	2.46400	10.58	20.27	14.03	30.85	24.61	56.00	46.00	-25.15	-21.39
5	5.86000	10.68	23.21	17.96	33.89	28.64	60.00	50.00	-26.11	-21.36
6	13.05200	10.80	23.78	18.16	34.58	28.96	60.00	50.00	-25.42	-21.04

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

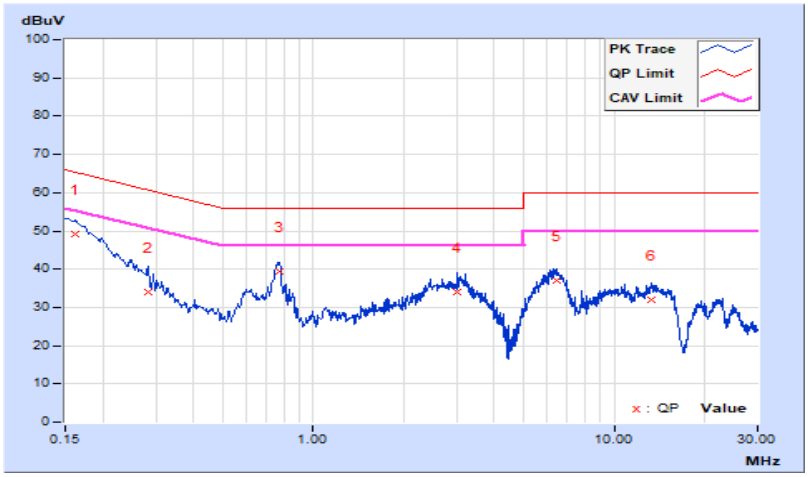


RF Mode	802.11ax (HE40) Full RU	Channel	CH 9：2452 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 72% RH
Tested By	Vincent Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16190	10.41	38.77	24.39	49.18	34.80	65.37	55.37	-16.19	-20.57
2	0.28200	10.48	23.65	11.86	34.13	22.34	60.76	50.76	-26.63	-28.42
3	**0.77400**	**10.55**	**28.97**	**23.33**	**39.52**	**33.88**	**56.00**	**46.00**	**-16.48**	**-12.12**
4	3.02400	10.66	23.30	17.89	33.96	28.55	56.00	46.00	-22.04	-17.45
5	6.41600	10.78	26.10	20.72	36.88	31.50	60.00	50.00	-23.12	-18.50
6	13.31600	10.95	21.18	15.29	32.13	26.24	60.00	50.00	-27.87	-23.76

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.6 Unwanted Emissions below 1 GHz

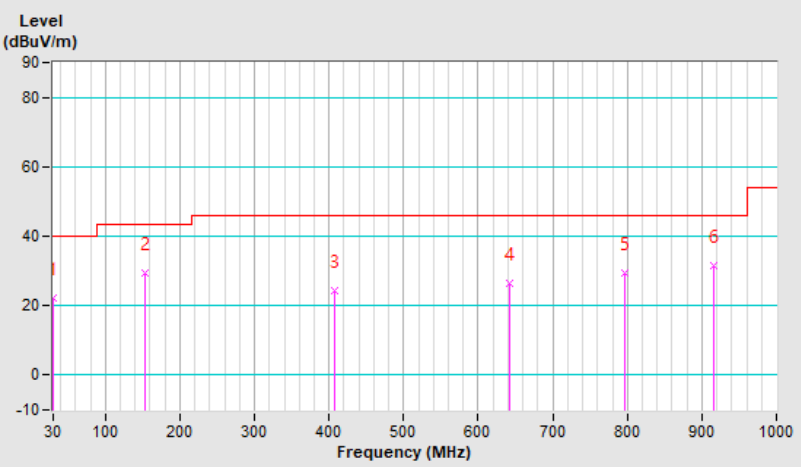
MIMO

RF Mode	802.11ax (HE40) Full RU	Channel	CH 9：2452 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	22.4 QP	40.0	-17.6	2.00 H	231	35.6	-13.2
2	153.19	29.5 QP	43.5	-14.0	2.00 H	18	42.3	-12.8
3	407.33	24.3 QP	46.0	-21.7	2.00 H	11	33.9	-9.6
4	642.07	26.5 QP	46.0	-19.5	1.50 H	157	30.9	-4.4
5	797.27	29.5 QP	46.0	-16.5	1.00 H	1	31.0	-1.5
6	915.61	31.4 QP	46.0	-14.6	2.50 H	259	32.1	-0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

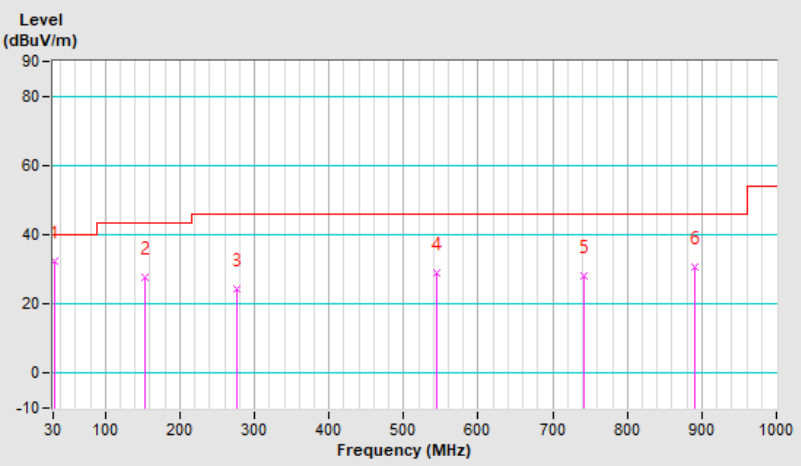


RF Mode	802.11ax (HE40) Full RU	Channel	CH 9：2452 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	**31.94**	**32.4 QP**	**40.0**	**-7.6**	**1.50 V**	**129**	**45.5**	**-13.1**
2	153.19	27.9 QP	43.5	-15.6	1.00 V	2	40.7	-12.8
3	277.35	24.4 QP	46.0	-21.6	2.00 V	359	37.1	-12.7
4	544.10	28.8 QP	46.0	-17.2	1.50 V	17	35.3	-6.5
5	741.01	28.3 QP	46.0	-17.7	1.50 V	318	30.8	-2.5
6	890.39	30.6 QP	46.0	-15.4	2.50 V	4	31.7	-1.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



7.7 Unwanted Emissions above 1 GHz

Chain 0

RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.7 PK	74.0	-14.3	2.38 H	50	27.4	32.3
2	2390.00	47.7 AV	54.0	-6.3	2.38 H	50	15.4	32.3
3	*2412.00	103.9 PK			2.38 H	50	71.6	32.3
4	*2412.00	101.4 AV			2.38 H	50	69.1	32.3
5	4824.00	50.0 PK	74.0	-24.0	1.04 H	274	46.4	3.6
6	4824.00	39.1 AV	54.0	-14.9	1.04 H	274	35.5	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.7 PK	74.0	-13.3	3.05 V	9	28.4	32.3
2	2390.00	52.9 AV	54.0	-1.1	3.05 V	9	20.6	32.3
3	*2412.00	111.9 PK			3.05 V	9	79.6	32.3
4	*2412.00	109.4 AV			3.05 V	9	77.1	32.3
5	4824.00	51.0 PK	74.0	-23.0	2.30 V	41	47.4	3.6
6	4824.00	40.7 AV	54.0	-13.3	2.30 V	41	37.1	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	104.6 PK			2.37 H	55	72.3	32.3
2	*2437.00	102.1 AV			2.37 H	55	69.8	32.3
3	4874.00	50.7 PK	74.0	-23.3	1.12 H	281	47.2	3.5
4	4874.00	40.1 AV	54.0	-13.9	1.12 H	281	36.6	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	113.9 PK			3.08 V	13	81.6	32.3
2	*2437.00	111.4 AV			3.08 V	13	79.1	32.3
3	4874.00	51.8 PK	74.0	-22.2	2.27 V	39	48.3	3.5
4	4874.00	41.9 AV	54.0	-12.1	2.27 V	39	38.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	102.5 PK			2.34 H	49	70.2	32.3
2	*2462.00	100.0 AV			2.34 H	49	67.7	32.3
3	2483.50	59.3 PK	74.0	-14.7	2.34 H	49	26.9	32.4
4	2483.50	49.5 AV	54.0	-4.5	2.34 H	49	17.1	32.4
5	4924.00	50.1 PK	74.0	-23.9	1.07 H	283	46.3	3.8
6	4924.00	39.1 AV	54.0	-14.9	1.07 H	283	35.3	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.2 PK			2.96 V	1	77.9	32.3
2	*2462.00	107.7 AV			2.96 V	1	75.4	32.3
3	2483.50	61.4 PK	74.0	-12.6	2.96 V	1	29.0	32.4
4	2483.50	53.2 AV	54.0	-0.8	2.96 V	1	20.8	32.4
5	4924.00	51.0 PK	74.0	-23.0	2.36 V	47	47.2	3.8
6	4924.00	40.6 AV	54.0	-13.4	2.36 V	47	36.8	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	100.9 PK			2.31 H	52	68.6	32.3
2	*2467.00	98.4 AV			2.31 H	52	66.1	32.3
3	2483.50	60.7 PK	74.0	-13.3	2.31 H	52	28.3	32.4
4	2483.50	51.9 AV	54.0	-2.1	2.31 H	52	19.5	32.4
5	4934.00	49.7 PK	74.0	-24.3	1.13 H	276	45.9	3.8
6	4934.00	38.6 AV	54.0	-15.4	1.13 H	276	34.8	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	108.0 PK			3.03 V	17	75.7	32.3
2	*2467.00	105.5 AV			3.03 V	17	73.2	32.3
3	2483.50	61.1 PK	74.0	-12.9	3.03 V	17	28.7	32.4
4	2483.50	53.0 AV	54.0	-1.0	3.03 V	17	20.6	32.4
5	4934.00	50.7 PK	74.0	-23.3	2.43 V	52	46.9	3.8
6	4934.00	40.3 AV	54.0	-13.7	2.43 V	52	36.5	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	96.7 PK			2.31 H	46	64.4	32.3
2	*2472.00	94.2 AV			2.31 H	46	61.9	32.3
3	2483.50	60.0 PK	74.0	-14.0	2.31 H	46	27.6	32.4
4	2483.50	51.2 AV	54.0	-2.8	2.31 H	46	18.8	32.4
5	4944.00	49.8 PK	74.0	-24.2	1.04 H	278	45.9	3.9
6	4944.00	39.0 AV	54.0	-15.0	1.04 H	278	35.1	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	103.6 PK			3.03 V	9	71.3	32.3
2	*2472.00	101.1 AV			3.03 V	9	68.8	32.3
3	2483.50	61.1 PK	74.0	-12.9	3.03 V	9	28.7	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.03 V	9	20.7	32.4
5	4944.00	50.9 PK	74.0	-23.1	2.43 V	56	47.0	3.9
6	4944.00	40.5 AV	54.0	-13.5	2.43 V	56	36.6	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	2.38 H	48	33.6	32.3
2	2390.00	48.8 AV	54.0	-5.2	2.38 H	48	16.5	32.3
3	*2412.00	106.9 PK			2.38 H	48	74.6	32.3
4	*2412.00	96.7 AV			2.38 H	48	64.4	32.3
5	4824.00	49.8 PK	74.0	-24.2	1.13 H	283	46.2	3.6
6	4824.00	37.2 AV	54.0	-16.8	1.13 H	283	33.6	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	70.7 PK	74.0	-3.3	3.05 V	16	38.4	32.3
2	2390.00	53.1 AV	54.0	-0.9	3.05 V	16	20.8	32.3
3	*2412.00	113.6 PK			3.05 V	16	81.3	32.3
4	*2412.00	103.4 AV			3.05 V	16	71.1	32.3
5	4824.00	51.1 PK	74.0	-22.9	2.36 V	47	47.5	3.6
6	4824.00	38.0 AV	54.0	-16.0	2.36 V	47	34.4	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	109.6 PK			2.33 H	54	77.3	32.3
2	*2437.00	99.5 AV			2.33 H	54	67.2	32.3
3	4874.00	50.2 PK	74.0	-23.8	1.04 H	267	46.7	3.5
4	4874.00	37.3 AV	54.0	-16.7	1.04 H	267	33.8	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	116.7 PK			3.05 V	19	84.4	32.3
2	*2437.00	106.6 AV			3.05 V	19	74.3	32.3
3	4874.00	50.9 PK	74.0	-23.1	2.36 V	45	47.4	3.5
4	4874.00	37.7 AV	54.0	-16.3	2.36 V	45	34.2	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.8 PK			2.35 H	50	74.5	32.3
2	*2462.00	96.6 AV			2.35 H	50	64.3	32.3
3	2483.50	65.5 PK	74.0	-8.5	2.35 H	50	33.1	32.4
4	2483.50	52.0 AV	54.0	-2.0	2.35 H	50	19.6	32.4
5	4924.00	50.3 PK	74.0	-23.7	2.38 H	113	46.5	3.8
6	4924.00	37.4 AV	54.0	-16.6	2.38 H	113	33.6	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	114.4 PK			2.96 V	18	82.1	32.3
2	*2462.00	104.2 AV			2.96 V	18	71.9	32.3
3	2483.50	70.7 PK	74.0	-3.3	2.96 V	18	38.3	32.4
4	2483.50	53.1 AV	54.0	-0.9	2.96 V	18	20.7	32.4
5	4924.00	50.6 PK	74.0	-23.4	2.27 V	49	46.8	3.8
6	4924.00	38.0 AV	54.0	-16.0	2.27 V	49	34.2	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	104.6 PK			2.37 H	54	72.3	32.3
2	*2467.00	94.5 AV			2.37 H	54	62.2	32.3
3	2483.50	64.7 PK	74.0	-9.3	2.37 H	54	32.3	32.4
4	2483.50	51.1 AV	54.0	-2.9	2.37 H	54	18.7	32.4
5	4934.00	50.1 PK	74.0	-23.9	1.17 H	269	46.3	3.8
6	4934.00	37.2 AV	54.0	-16.8	1.17 H	269	33.4	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	111.8 PK			2.98 V	18	79.5	32.3
2	*2467.00	101.6 AV			2.98 V	18	69.3	32.3
3	2483.50	69.5 PK	74.0	-4.5	2.98 V	18	37.1	32.4
4	2483.50	53.0 AV	54.0	-1.0	2.98 V	18	20.6	32.4
5	4934.00	50.4 PK	74.0	-23.6	2.38 V	47	46.6	3.8
6	4934.00	37.9 AV	54.0	-16.1	2.38 V	47	34.1	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	98.0 PK			2.45 H	47	65.7	32.3
2	*2472.00	87.8 AV			2.45 H	47	55.5	32.3
3	2483.50	65.9 PK	74.0	-8.1	2.45 H	47	33.5	32.4
4	2483.50	52.3 AV	54.0	-1.7	2.45 H	47	19.9	32.4
5	4944.00	50.2 PK	74.0	-23.8	1.16 H	279	46.3	3.9
6	4944.00	37.3 AV	54.0	-16.7	1.16 H	279	33.4	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	104.8 PK			2.98 V	20	72.5	32.3
2	*2472.00	94.7 AV			2.98 V	20	62.4	32.3
3	2483.50	70.1 PK	74.0	-3.9	2.98 V	20	37.7	32.4
4	2483.50	53.0 AV	54.0	-1.0	2.98 V	20	20.6	32.4
5	4944.00	50.5 PK	74.0	-23.5	2.31 V	45	46.6	3.9
6	4944.00	37.9 AV	54.0	-16.1	2.31 V	45	34.0	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Chain 1

RF Mode	802.11b	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.2 PK	74.0	-13.8	1.12 H	64	27.9	32.3
2	2390.00	53.0 AV	54.0	-1.0	1.12 H	64	20.7	32.3
3	*2412.00	107.4 PK			1.12 H	64	75.1	32.3
4	*2412.00	104.9 AV			1.12 H	64	72.6	32.3
5	4824.00	53.7 PK	74.0	-20.3	2.48 H	114	50.1	3.6
6	4824.00	48.2 AV	54.0	-5.8	2.48 H	114	44.6	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.5 PK	74.0	-12.5	3.08 V	348	29.2	32.3
2	2390.00	53.5 AV	54.0	-0.5	3.08 V	348	21.2	32.3
3	*2412.00	113.0 PK			3.08 V	348	80.7	32.3
4	*2412.00	110.5 AV			3.08 V	348	78.2	32.3
5	4824.00	55.3 PK	74.0	-18.7	2.51 V	42	51.7	3.6
6	4824.00	50.3 AV	54.0	-3.7	2.51 V	42	46.7	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.0 PK	74.0	-15.0	1.04 H	63	26.7	32.3
2	2390.00	48.6 AV	54.0	-5.4	1.04 H	63	16.3	32.3
3	*2437.00	107.1 PK			1.04 H	63	74.8	32.3
4	*2437.00	104.6 AV			1.04 H	63	72.3	32.3
5	4874.00	52.4 PK	74.0	-21.6	2.53 H	116	48.9	3.5
6	4874.00	46.9 AV	54.0	-7.1	2.53 H	116	43.4	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.4 PK	74.0	-12.6	3.03 V	350	29.1	32.3
2	2390.00	53.1 AV	54.0	-0.9	3.03 V	350	20.8	32.3
3	*2437.00	115.0 PK			3.03 V	350	82.7	32.3
4	*2437.00	112.5 AV			3.03 V	350	80.2	32.3
5	4874.00	54.6 PK	74.0	-19.4	2.36 V	39	51.1	3.5
6	4874.00	49.1 AV	54.0	-4.9	2.36 V	39	45.6	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.2 PK			1.01 H	63	71.9	32.3
2	*2462.00	101.7 AV			1.01 H	63	69.4	32.3
3	2483.50	59.8 PK	74.0	-14.2	1.01 H	63	27.4	32.4
4	2483.50	50.1 AV	54.0	-3.9	1.01 H	63	17.7	32.4
5	4924.00	50.2 PK	74.0	-23.8	2.53 H	117	46.4	3.8
6	4924.00	44.0 AV	54.0	-10.0	2.53 H	117	40.2	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.3 PK			3.00 V	359	79.0	32.3
2	*2462.00	108.8 AV			3.00 V	359	76.5	32.3
3	2483.50	60.7 PK	74.0	-13.3	3.00 V	359	28.3	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.00 V	359	20.7	32.4
5	4924.00	52.0 PK	74.0	-22.0	2.38 V	42	48.2	3.8
6	4924.00	46.1 AV	54.0	-7.9	2.38 V	42	42.3	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	100.7 PK			1.15 H	62	68.4	32.3
2	*2467.00	98.2 AV			1.15 H	62	65.9	32.3
3	2483.50	61.2 PK	74.0	-12.8	1.15 H	62	28.8	32.4
4	2483.50	53.2 AV	54.0	-0.8	1.15 H	62	20.8	32.4
5	4934.00	50.1 PK	74.0	-23.9	2.43 H	113	46.3	3.8
6	4934.00	42.1 AV	54.0	-11.9	2.43 H	113	38.3	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	108.5 PK			2.93 V	355	76.2	32.3
2	*2467.00	105.9 AV			2.93 V	355	73.6	32.3
3	2483.50	61.3 PK	74.0	-12.7	2.93 V	355	28.9	32.4
4	2483.50	53.6 AV	54.0	-0.4	2.93 V	355	21.2	32.4
5	4934.00	50.5 PK	74.0	-23.5	2.43 V	47	46.7	3.8
6	4934.00	44.4 AV	54.0	-9.6	2.43 V	47	40.6	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	97.0 PK			1.16 H	62	64.7	32.3
2	*2472.00	94.4 AV			1.16 H	62	62.1	32.3
3	2483.50	59.8 PK	74.0	-14.2	1.16 H	62	27.4	32.4
4	2483.50	50.3 AV	54.0	-3.7	1.16 H	62	17.9	32.4
5	4944.00	48.7 PK	74.0	-25.3	2.53 H	124	44.8	3.9
6	4944.00	40.1 AV	54.0	-13.9	2.53 H	124	36.2	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	104.0 PK			2.94 V	356	71.7	32.3
2	*2472.00	101.5 AV			2.94 V	356	69.2	32.3
3	2483.50	62.3 PK	74.0	-11.7	2.94 V	356	29.9	32.4
4	2483.50	53.2 AV	54.0	-0.8	2.94 V	356	20.8	32.4
5	4944.00	49.2 PK	74.0	-24.8	2.46 V	53	45.3	3.9
6	4944.00	42.3 AV	54.0	-11.7	2.46 V	53	38.4	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.2 PK	74.0	-7.8	1.21 H	64	33.9	32.3
2	2390.00	51.9 AV	54.0	-2.1	1.21 H	64	19.6	32.3
3	*2412.00	108.5 PK			1.21 H	64	76.2	32.3
4	*2412.00	98.3 AV			1.21 H	64	66.0	32.3
5	4824.00	50.0 PK	74.0	-24.0	2.56 H	108	46.4	3.6
6	4824.00	37.3 AV	54.0	-16.7	2.56 H	108	33.7	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	2.78 V	347	35.3	32.3
2	2390.00	53.0 AV	54.0	-1.0	2.78 V	347	20.7	32.3
3	*2412.00	115.6 PK			2.78 V	347	83.3	32.3
4	*2412.00	105.0 AV			2.78 V	347	72.7	32.3
5	4824.00	51.2 PK	74.0	-22.8	2.67 V	46	47.6	3.6
6	4824.00	37.9 AV	54.0	-16.1	2.67 V	46	34.3	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.0 PK			1.21 H	63	77.7	32.3
2	*2437.00	99.8 AV			1.21 H	63	67.5	32.3
3	2483.50	63.7 PK	74.0	-10.3	1.21 H	63	31.3	32.4
4	2483.50	48.1 AV	54.0	-5.9	1.21 H	63	15.7	32.4
5	4874.00	50.7 PK	74.0	-23.3	2.56 H	119	47.2	3.5
6	4874.00	37.6 AV	54.0	-16.4	2.56 H	119	34.1	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	117.2 PK			2.78 V	352	84.9	32.3
2	*2437.00	107.1 AV			2.78 V	352	74.8	32.3
3	2483.50	71.1 PK	74.0	-2.9	2.78 V	352	38.7	32.4
4	2483.50	52.8 AV	54.0	-1.2	2.78 V	352	20.4	32.4
5	4874.00	51.3 PK	74.0	-22.7	2.73 V	51	47.8	3.5
6	4874.00	37.9 AV	54.0	-16.1	2.73 V	51	34.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.9 PK			1.25 H	62	75.6	32.3
2	*2462.00	97.5 AV			1.25 H	62	65.2	32.3
3	2483.50	66.9 PK	74.0	-7.1	1.25 H	62	34.5	32.4
4	2483.50	50.0 AV	54.0	-4.0	1.25 H	62	17.6	32.4
5	4924.00	50.5 PK	74.0	-23.5	2.43 H	107	46.7	3.8
6	4924.00	37.6 AV	54.0	-16.4	2.43 H	107	33.8	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	115.2 PK			2.94 V	352	82.9	32.3
2	*2462.00	104.9 AV			2.94 V	352	72.6	32.3
3	2483.50	68.2 PK	74.0	-5.8	2.94 V	352	35.8	32.4
4	2483.50	53.0 AV	54.0	-1.0	2.94 V	352	20.6	32.4
5	4924.00	50.9 PK	74.0	-23.1	2.69 V	53	47.1	3.8
6	4924.00	38.1 AV	54.0	-15.9	2.69 V	53	34.3	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	103.9 PK			1.21 H	63	71.6	32.3
2	*2467.00	93.7 AV			1.21 H	63	61.4	32.3
3	2483.50	67.5 PK	74.0	-6.5	1.21 H	63	35.1	32.4
4	2483.50	52.2 AV	54.0	-1.8	1.21 H	63	19.8	32.4
5	4934.00	50.3 PK	74.0	-23.7	2.53 H	112	46.5	3.8
6	4934.00	37.4 AV	54.0	-16.6	2.53 H	112	33.6	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	112.5 PK			2.98 V	353	80.2	32.3
2	*2467.00	101.8 AV			2.98 V	353	69.5	32.3
3	2483.50	67.0 PK	74.0	-7.0	2.98 V	353	34.6	32.4
4	2483.50	53.1 AV	54.0	-0.9	2.98 V	353	20.7	32.4
5	4934.00	50.7 PK	74.0	-23.3	2.57 V	53	46.9	3.8
6	4934.00	38.0 AV	54.0	-16.0	2.57 V	53	34.2	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	97.0 PK			1.17 H	64	64.7	32.3
2	*2472.00	86.6 AV			1.17 H	64	54.3	32.3
3	2483.50	64.1 PK	74.0	-9.9	1.17 H	64	31.7	32.4
4	2483.50	52.0 AV	54.0	-2.0	1.17 H	64	19.6	32.4
5	4944.00	50.3 PK	74.0	-23.7	2.51 H	108	46.4	3.9
6	4944.00	37.4 AV	54.0	-16.6	2.51 H	108	33.5	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	103.6 PK			2.94 V	359	71.3	32.3
2	*2472.00	93.5 AV			2.94 V	359	61.2	32.3
3	2483.50	68.3 PK	74.0	-5.7	2.94 V	359	35.9	32.4
4	2483.50	53.2 AV	54.0	-0.8	2.94 V	359	20.8	32.4
5	4944.00	50.7 PK	74.0	-23.3	2.61 V	51	46.8	3.9
6	4944.00	38.1 AV	54.0	-15.9	2.61 V	51	34.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

MIMO

RF Mode	802.11n (HT20)	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	62.1 PK	74.0	-11.9	3.09 H	61	29.8	32.3
2	2390.00	49.0 AV	54.0	-5.0	3.09 H	61	16.7	32.3
3	*2412.00	109.9 PK			3.09 H	61	77.6	32.3
4	*2412.00	98.4 AV			3.09 H	61	66.1	32.3
5	4824.00	49.2 PK	74.0	-24.8	2.29 H	145	45.6	3.6
6	4824.00	36.1 AV	54.0	-17.9	2.29 H	145	32.5	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.7 PK	74.0	-8.3	3.46 V	350	33.4	32.3
2	2390.00	50.6 AV	54.0	-3.4	3.46 V	350	18.3	32.3
3	*2412.00	115.4 PK			3.46 V	350	83.1	32.3
4	*2412.00	104.2 AV			3.46 V	350	71.9	32.3
5	4824.00	50.4 PK	74.0	-23.6	2.93 V	84	46.8	3.6
6	4824.00	37.3 AV	54.0	-16.7	2.93 V	84	33.7	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT20)	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	114.1 PK			3.02 H	66	81.8	32.3
2	*2437.00	102.9 AV			3.02 H	66	70.6	32.3
3	4874.00	49.9 PK	74.0	-24.1	2.16 H	128	46.4	3.5
4	4874.00	36.9 AV	54.0	-17.1	2.16 H	128	33.4	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	119.7 PK			3.38 V	351	87.4	32.3
2	*2437.00	108.4 AV			3.38 V	351	76.1	32.3
3	4874.00	50.7 PK	74.0	-23.3	2.73 V	71	47.2	3.5
4	4874.00	37.8 AV	54.0	-16.2	2.73 V	71	34.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT20)	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	108.9 PK			3.04 H	65	76.6	32.3
2	*2462.00	97.4 AV			3.04 H	65	65.1	32.3
3	2483.50	62.2 PK	74.0	-11.8	3.04 H	65	29.8	32.4
4	2483.50	49.3 AV	54.0	-4.7	3.04 H	65	16.9	32.4
5	4924.00	49.5 PK	74.0	-24.5	2.23 H	137	45.7	3.8
6	4924.00	36.5 AV	54.0	-17.5	2.23 H	137	32.7	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	114.2 PK			3.36 V	352	81.9	32.3
2	*2462.00	103.0 AV			3.36 V	352	70.7	32.3
3	2483.50	70.0 PK	74.0	-4.0	3.36 V	352	37.6	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.36 V	352	20.7	32.4
5	4924.00	50.5 PK	74.0	-23.5	2.93 V	87	46.7	3.8
6	4924.00	37.4 AV	54.0	-16.6	2.93 V	87	33.6	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT20)	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	105.8 PK			3.01 H	66	73.5	32.3
2	*2467.00	94.4 AV			3.01 H	66	62.1	32.3
3	2483.50	60.8 PK	74.0	-13.2	3.01 H	66	28.4	32.4
4	2483.50	49.3 AV	54.0	-4.7	3.01 H	66	16.9	32.4
5	4934.00	49.4 PK	74.0	-24.6	2.28 H	141	45.6	3.8
6	4934.00	36.3 AV	54.0	-17.7	2.28 H	141	32.5	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	111.5 PK			3.30 V	350	79.2	32.3
2	*2467.00	99.9 AV			3.30 V	350	67.6	32.3
3	2483.50	66.7 PK	74.0	-7.3	3.30 V	350	34.3	32.4
4	2483.50	52.9 AV	54.0	-1.1	3.30 V	350	20.5	32.4
5	4934.00	50.3 PK	74.0	-23.7	2.92 V	87	46.5	3.8
6	4934.00	37.1 AV	54.0	-16.9	2.92 V	87	33.3	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT20)	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	102.0 PK			2.98 H	59	69.7	32.3
2	*2472.00	90.6 AV			2.98 H	59	58.3	32.3
3	2483.50	61.0 PK	74.0	-13.0	2.98 H	59	28.6	32.4
4	2483.50	49.0 AV	54.0	-5.0	2.98 H	59	16.6	32.4
5	4944.00	49.4 PK	74.0	-24.6	2.17 H	136	45.5	3.9
6	4944.00	36.2 AV	54.0	-17.8	2.17 H	136	32.3	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	107.5 PK			3.30 V	354	75.2	32.3
2	*2472.00	96.0 AV			3.30 V	354	63.7	32.3
3	2483.50	66.1 PK	74.0	-7.9	3.30 V	354	33.7	32.4
4	2483.50	53.2 AV	54.0	-0.8	3.30 V	354	20.8	32.4
5	4944.00	50.2 PK	74.0	-23.8	2.83 V	79	46.3	3.9
6	4944.00	37.1 AV	54.0	-16.9	2.83 V	79	33.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT40)	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.0 PK	74.0	-8.0	2.97 H	65	33.7	32.3
2	2390.00	50.2 AV	54.0	-3.8	2.97 H	65	17.9	32.3
3	*2422.00	103.9 PK			2.97 H	65	71.5	32.4
4	*2422.00	92.5 AV			2.97 H	65	60.1	32.4
5	4844.00	49.1 PK	74.0	-24.9	2.31 H	142	45.5	3.6
6	4844.00	36.0 AV	54.0	-18.0	2.31 H	142	32.4	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	3.04 V	351	34.6	32.3
2	2390.00	52.8 AV	54.0	-1.2	3.04 V	351	20.5	32.3
3	*2422.00	110.2 PK			3.04 V	351	77.8	32.4
4	*2422.00	98.8 AV			3.04 V	351	66.4	32.4
5	4844.00	50.2 PK	74.0	-23.8	2.93 V	87	46.6	3.6
6	4844.00	37.2 AV	54.0	-16.8	2.93 V	87	33.6	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT40)	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.2 PK			2.93 H	71	73.9	32.3
2	*2437.00	94.6 AV			2.93 H	71	62.3	32.3
3	2483.50	65.8 PK	74.0	-8.2	2.93 H	71	33.4	32.4
4	2483.50	49.5 AV	54.0	-4.5	2.93 H	71	17.1	32.4
5	4874.00	49.0 PK	74.0	-25.0	2.26 H	137	45.5	3.5
6	4874.00	36.0 AV	54.0	-18.0	2.26 H	137	32.5	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	112.9 PK			3.02 V	351	80.6	32.3
2	*2437.00	101.5 AV			3.02 V	351	69.2	32.3
3	2483.50	69.1 PK	74.0	-4.9	3.02 V	351	36.7	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.02 V	351	20.7	32.4
5	4874.00	50.2 PK	74.0	-23.8	2.83 V	86	46.7	3.5
6	4874.00	36.9 AV	54.0	-17.1	2.83 V	86	33.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT40)	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	104.0 PK			2.96 H	57	71.7	32.3
2	*2452.00	92.5 AV			2.96 H	57	60.2	32.3
3	2483.50	63.0 PK	74.0	-11.0	2.96 H	57	30.6	32.4
4	2483.50	49.6 AV	54.0	-4.4	2.96 H	57	17.2	32.4
5	4904.00	49.0 PK	74.0	-25.0	2.26 H	138	45.4	3.6
6	4904.00	36.1 AV	54.0	-17.9	2.26 H	138	32.5	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	109.6 PK			1.00 V	353	77.3	32.3
2	*2452.00	98.0 AV			1.00 V	353	65.7	32.3
3	2483.50	68.7 PK	74.0	-5.3	3.04 V	353	36.3	32.4
4	2483.50	53.3 AV	54.0	-0.7	3.04 V	353	20.9	32.4
5	4904.00	50.0 PK	74.0	-24.0	2.87 V	78	46.4	3.6
6	4904.00	36.9 AV	54.0	-17.1	2.87 V	78	33.3	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT40)	Channel	CH 10：2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	101.0 PK			2.94 H	69	68.7	32.3
2	*2457.00	89.4 AV			2.94 H	69	57.1	32.3
3	2483.50	62.1 PK	74.0	-11.9	2.94 H	69	29.7	32.4
4	2483.50	49.6 AV	54.0	-4.4	2.94 H	69	17.2	32.4
5	4914.00	49.2 PK	74.0	-24.8	2.16 H	133	45.5	3.7
6	4914.00	36.0 AV	54.0	-18.0	2.16 H	133	32.3	3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	106.6 PK			3.00 V	353	74.3	32.3
2	*2457.00	95.0 AV			3.00 V	353	62.7	32.3
3	2483.50	67.8 PK	74.0	-6.2	3.00 V	353	35.4	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.00 V	353	20.7	32.4
5	4914.00	50.0 PK	74.0	-24.0	2.89 V	80	46.3	3.7
6	4914.00	36.9 AV	54.0	-17.1	2.89 V	80	33.2	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11n (HT40)	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	98.1 PK			2.94 H	61	65.8	32.3
2	*2462.00	86.5 AV			2.94 H	61	54.2	32.3
3	2483.50	61.7 PK	74.0	-12.3	2.94 H	61	29.3	32.4
4	2483.50	49.8 AV	54.0	-4.2	2.94 H	61	17.4	32.4
5	4924.00	49.2 PK	74.0	-24.8	2.29 H	147	45.4	3.8
6	4924.00	36.1 AV	54.0	-17.9	2.29 H	147	32.3	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.6 PK			3.01 V	351	71.3	32.3
2	*2462.00	92.0 AV			3.01 V	351	59.7	32.3
3	2483.50	65.7 PK	74.0	-8.3	3.01 V	351	33.3	32.4
4	2483.50	53.0 AV	54.0	-1.0	3.01 V	351	20.6	32.4
5	4924.00	50.1 PK	74.0	-23.9	2.95 V	69	46.3	3.8
6	4924.00	36.9 AV	54.0	-17.1	2.95 V	69	33.1	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.7 PK	74.0	-13.3	2.97 H	62	28.4	32.3
2	2390.00	44.7 AV	54.0	-9.3	2.97 H	62	12.4	32.3
3	*2412.00	116.4 PK			2.97 H	62	84.1	32.3
4	*2412.00	106.0 AV			2.97 H	62	73.7	32.3
5	4824.00	50.0 PK	74.0	-24.0	2.19 H	143	46.4	3.6
6	4824.00	37.0 AV	54.0	-17.0	2.19 H	143	33.4	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.7 PK	74.0	-7.3	3.47 V	346	34.4	32.3
2	2390.00	45.5 AV	54.0	-8.5	3.47 V	346	13.2	32.3
3	*2412.00	122.2 PK			3.47 V	346	89.9	32.3
4	*2412.00	112.1 AV			3.47 V	346	79.8	32.3
5	4824.00	50.8 PK	74.0	-23.2	2.87 V	76	47.2	3.6
6	4824.00	37.7 AV	54.0	-16.3	2.87 V	76	34.1	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	120.7 PK			3.02 H	66	88.4	32.3
2	*2437.00	110.6 AV			3.02 H	66	78.3	32.3
3	4874.00	50.1 PK	74.0	-23.9	2.17 H	123	46.6	3.5
4	4874.00	37.3 AV	54.0	-16.7	2.17 H	123	33.8	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	126.1 PK			3.33 V	350	93.8	32.3
2	*2437.00	116.1 AV			3.33 V	350	83.8	32.3
3	4874.00	51.0 PK	74.0	-23.0	2.86 V	77	47.5	3.5
4	4874.00	37.9 AV	54.0	-16.1	2.86 V	77	34.4	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	115.4 PK			2.97 H	62	83.1	32.3
2	*2462.00	105.2 AV			2.97 H	62	72.9	32.3
3	2483.50	64.2 PK	74.0	-9.8	2.97 H	62	31.8	32.4
4	2483.50	46.5 AV	54.0	-7.5	2.97 H	62	14.1	32.4
5	4924.00	50.2 PK	74.0	-23.8	2.26 H	125	46.4	3.8
6	4924.00	37.3 AV	54.0	-16.7	2.26 H	125	33.5	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	121.0 PK			3.02 V	348	88.7	32.3
2	*2462.00	110.8 AV			3.02 V	348	78.5	32.3
3	2483.50	68.7 PK	74.0	-5.3	3.02 V	348	36.3	32.4
4	2483.50	47.6 AV	54.0	-6.4	3.02 V	348	15.2	32.4
5	4924.00	51.0 PK	74.0	-23.0	2.86 V	84	47.2	3.8
6	4924.00	38.0 AV	54.0	-16.0	2.86 V	84	34.2	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	113.1 PK			2.94 H	68	80.8	32.3
2	*2467.00	101.0 AV			2.94 H	68	68.7	32.3
3	2483.50	67.9 PK	74.0	-6.1	2.94 H	68	35.5	32.4
4	2483.50	46.0 AV	54.0	-8.0	2.94 H	68	13.6	32.4
5	4934.00	50.2 PK	74.0	-23.8	2.24 H	122	46.4	3.8
6	4934.00	37.3 AV	54.0	-16.7	2.24 H	122	33.5	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	119.1 PK			3.03 V	351	86.8	32.3
2	*2467.00	106.7 AV			3.03 V	351	74.4	32.3
3	2483.50	73.5 PK	74.0	-0.5	3.03 V	351	41.1	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.03 V	351	14.5	32.4
5	4934.00	51.1 PK	74.0	-22.9	2.92 V	76	47.3	3.8
6	4934.00	38.2 AV	54.0	-15.8	2.92 V	76	34.4	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	108.0 PK			3.03 H	64	75.7	32.3
2	*2472.00	96.1 AV			3.03 H	64	63.8	32.3
3	2483.50	67.2 PK	74.0	-6.8	3.03 H	64	34.8	32.4
4	2483.50	46.8 AV	54.0	-7.2	3.03 H	64	14.4	32.4
5	4944.00	50.2 PK	74.0	-23.8	2.13 H	128	46.3	3.9
6	4944.00	37.5 AV	54.0	-16.5	2.13 H	128	33.6	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	113.9 PK			3.21 V	349	81.6	32.3
2	*2472.00	101.7 AV			3.21 V	349	69.4	32.3
3	2483.50	73.1 PK	74.0	-0.9	3.21 V	349	40.7	32.4
4	2483.50	48.6 AV	54.0	-5.4	3.21 V	349	16.2	32.4
5	4944.00	50.7 PK	74.0	-23.3	2.86 V	67	46.8	3.9
6	4944.00	37.8 AV	54.0	-16.2	2.86 V	67	33.9	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.9 PK	74.0	-13.1	3.02 H	66	28.6	32.3
2	2390.00	44.9 AV	54.0	-9.1	3.02 H	66	12.6	32.3
3	*2412.00	113.6 PK			3.02 H	66	81.3	32.3
4	*2412.00	103.4 AV			3.02 H	66	71.1	32.3
5	4824.00	49.8 PK	74.0	-24.2	2.31 H	146	46.2	3.6
6	4824.00	36.8 AV	54.0	-17.2	2.31 H	146	33.2	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.1 PK	74.0	-6.9	3.52 V	345	34.8	32.3
2	2390.00	45.9 AV	54.0	-8.1	3.52 V	345	13.6	32.3
3	*2412.00	119.4 PK			3.52 V	345	87.1	32.3
4	*2412.00	109.2 AV			3.52 V	345	76.9	32.3
5	4824.00	50.4 PK	74.0	-23.6	2.93 V	84	46.8	3.6
6	4824.00	37.3 AV	54.0	-16.7	2.93 V	84	33.7	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	118.5 PK			3.04 H	68	86.2	32.3
2	*2437.00	108.4 AV			3.04 H	68	76.1	32.3
3	4874.00	50.0 PK	74.0	-24.0	2.26 H	142	46.5	3.5
4	4874.00	37.2 AV	54.0	-16.8	2.26 H	142	33.7	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	123.9 PK			3.34 V	351	91.6	32.3
2	*2437.00	114.0 AV			3.34 V	351	81.7	32.3
3	4874.00	50.8 PK	74.0	-23.2	2.92 V	79	47.3	3.5
4	4874.00	37.8 AV	54.0	-16.2	2.92 V	79	34.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	112.6 PK			2.96 H	59	80.3	32.3
2	*2462.00	102.5 AV			2.96 H	59	70.2	32.3
3	2483.50	64.1 PK	74.0	-9.9	2.96 H	59	31.7	32.4
4	2483.50	46.8 AV	54.0	-7.2	2.96 H	59	14.4	32.4
5	4924.00	50.0 PK	74.0	-24.0	2.27 H	131	46.2	3.8
6	4924.00	37.0 AV	54.0	-17.0	2.27 H	131	33.2	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	118.3 PK			3.01 V	350	86.0	32.3
2	*2462.00	108.2 AV			3.01 V	350	75.9	32.3
3	2483.50	68.5 PK	74.0	-5.5	3.01 V	350	36.1	32.4
4	2483.50	47.4 AV	54.0	-6.6	3.01 V	350	15.0	32.4
5	4924.00	50.7 PK	74.0	-23.3	2.87 V	73	46.9	3.8
6	4924.00	37.6 AV	54.0	-16.4	2.87 V	73	33.8	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	110.1 PK			2.92 H	71	77.8	32.3
2	*2467.00	98.8 AV			2.92 H	71	66.5	32.3
3	2483.50	58.9 PK	74.0	-15.1	2.92 H	71	26.5	32.4
4	2483.50	46.1 AV	54.0	-7.9	2.92 H	71	13.7	32.4
5	4934.00	49.7 PK	74.0	-24.3	2.21 H	136	45.9	3.8
6	4934.00	37.6 AV	54.0	-16.4	2.21 H	136	33.8	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	115.9 PK			3.01 V	353	83.6	32.3
2	*2467.00	104.4 AV			3.01 V	353	72.1	32.3
3	2483.50	62.1 PK	74.0	-11.9	3.01 V	353	29.7	32.4
4	2483.50	46.7 AV	54.0	-7.3	3.01 V	353	14.3	32.4
5	4934.00	50.6 PK	74.0	-23.4	2.87 V	82	46.8	3.8
6	4934.00	37.7 AV	54.0	-16.3	2.87 V	82	33.9	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	106.1 PK			3.01 H	62	73.8	32.3
2	*2472.00	93.9 AV			3.01 H	62	61.6	32.3
3	2483.50	68.3 PK	74.0	-5.7	3.01 H	62	35.9	32.4
4	2483.50	47.1 AV	54.0	-6.9	3.01 H	62	14.7	32.4
5	4944.00	50.0 PK	74.0	-24.0	2.29 H	70	46.1	3.9
6	4944.00	37.1 AV	54.0	-16.9	2.29 H	70	33.2	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	111.9 PK			2.94 V	351	79.6	32.3
2	*2472.00	99.6 AV			2.94 V	351	67.3	32.3
3	2483.50	73.2 PK	74.0	-0.8	2.94 V	351	40.8	32.4
4	2483.50	49.3 AV	54.0	-4.7	2.94 V	351	16.9	32.4
5	4944.00	50.5 PK	74.0	-23.5	2.83 V	72	46.6	3.9
6	4944.00	37.4 AV	54.0	-16.6	2.83 V	72	33.5	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.8 PK	74.0	-12.2	3.08 H	62	29.5	32.3
2	2390.00	49.2 AV	54.0	-4.8	3.08 H	62	16.9	32.3
3	*2412.00	111.7 PK			3.08 H	62	79.4	32.3
4	*2412.00	100.6 AV			3.08 H	62	68.3	32.3
5	4824.00	49.5 PK	74.0	-24.5	2.29 H	151	45.9	3.6
6	4824.00	36.6 AV	54.0	-17.4	2.29 H	151	33.0	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	64.1 PK	74.0	-9.9	3.53 V	353	31.8	32.3
2	2390.00	52.7 AV	54.0	-1.3	3.53 V	353	20.4	32.3
3	*2412.00	116.5 PK			3.53 V	353	84.2	32.3
4	*2412.00	106.2 AV			3.53 V	353	73.9	32.3
5	4824.00	50.3 PK	74.0	-23.7	2.97 V	85	46.7	3.6
6	4824.00	37.2 AV	54.0	-16.8	2.97 V	85	33.6	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	116.2 PK			3.01 H	74	83.9	32.3
2	*2437.00	105.1 AV			3.01 H	74	72.8	32.3
3	4874.00	49.8 PK	74.0	-24.2	2.29 H	144	46.3	3.5
4	4874.00	37.0 AV	54.0	-17.0	2.29 H	144	33.5	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	121.7 PK			3.45 V	314	89.4	32.3
2	*2437.00	110.6 AV			3.45 V	314	78.3	32.3
3	4874.00	50.7 PK	74.0	-23.3	2.96 V	83	47.2	3.5
4	4874.00	37.6 AV	54.0	-16.4	2.96 V	83	34.1	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.2 PK			3.01 H	69	77.9	32.3
2	*2462.00	99.9 AV			3.01 H	69	67.6	32.3
3	2483.50	63.2 PK	74.0	-10.8	3.01 H	69	30.8	32.4
4	2483.50	49.5 AV	54.0	-4.5	3.01 H	69	17.1	32.4
5	4924.00	49.9 PK	74.0	-24.1	2.32 H	138	46.1	3.8
6	4924.00	36.8 AV	54.0	-17.2	2.32 H	138	33.0	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	115.9 PK			3.40 V	315	83.6	32.3
2	*2462.00	105.6 AV			3.40 V	315	73.3	32.3
3	2483.50	69.7 PK	74.0	-4.3	3.40 V	315	37.3	32.4
4	2483.50	52.0 AV	54.0	-2.0	3.40 V	315	19.6	32.4
5	4924.00	50.5 PK	74.0	-23.5	2.93 V	84	46.7	3.8
6	4924.00	37.5 AV	54.0	-16.5	2.93 V	84	33.7	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	107.2 PK			3.01 H	79	74.9	32.3
2	*2467.00	96.1 AV			3.01 H	79	63.8	32.3
3	2483.50	60.6 PK	74.0	-13.4	3.01 H	79	28.2	32.4
4	2483.50	49.3 AV	54.0	-4.7	3.01 H	79	16.9	32.4
5	4934.00	49.6 PK	74.0	-24.4	2.23 H	141	45.8	3.8
6	4934.00	37.5 AV	54.0	-16.5	2.23 H	141	33.7	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	112.7 PK			3.34 V	346	80.4	32.3
2	*2467.00	101.6 AV			3.34 V	346	69.3	32.3
3	2483.50	65.8 PK	74.0	-8.2	3.34 V	346	33.4	32.4
4	2483.50	52.3 AV	54.0	-1.7	3.34 V	346	19.9	32.4
5	4934.00	50.5 PK	74.0	-23.5	2.91 V	86	46.7	3.8
6	4934.00	37.5 AV	54.0	-16.5	2.91 V	86	33.7	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	102.8 PK			3.04 H	72	70.5	32.3
2	*2472.00	90.7 AV			3.04 H	72	58.4	32.3
3	2483.50	66.5 PK	74.0	-7.5	3.04 H	72	34.1	32.4
4	2483.50	49.5 AV	54.0	-4.5	3.04 H	72	17.1	32.4
5	4944.00	49.8 PK	74.0	-24.2	2.32 H	79	45.9	3.9
6	4944.00	37.0 AV	54.0	-17.0	2.32 H	79	33.1	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	108.7 PK			3.38 V	352	76.4	32.3
2	*2472.00	96.9 AV			3.38 V	352	64.6	32.3
3	**2483.50**	**73.8 PK**	**74.0**	**-0.2**	**3.38 V**	**352**	**41.4**	**32.4**
4	**2483.50**	**53.8 AV**	**54.0**	**-0.2**	**3.38 V**	**352**	**21.4**	**32.4**
5	4944.00	50.3 PK	74.0	-23.7	2.87 V	78	46.4	3.9
6	4944.00	37.3 AV	54.0	-16.7	2.87 V	78	33.4	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 1：2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.9 PK	74.0	-10.1	3.00 H	63	31.6	32.3
2	2390.00	49.6 AV	54.0	-4.4	3.00 H	63	17.3	32.3
3	*2412.00	110.7 PK			3.00 H	63	78.4	32.3
4	*2412.00	98.6 AV			3.00 H	63	66.3	32.3
5	4824.00	49.4 PK	74.0	-24.6	2.23 H	134	45.8	3.6
6	4824.00	36.4 AV	54.0	-17.6	2.23 H	134	32.8	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	3.44 V	353	36.2	32.3
2	2390.00	52.7 AV	54.0	-1.3	3.44 V	353	20.4	32.3
3	*2412.00	116.2 PK			3.44 V	353	83.9	32.3
4	*2412.00	104.1 AV			3.44 V	353	71.8	32.3
5	4824.00	50.3 PK	74.0	-23.7	2.83 V	74	46.7	3.6
6	4824.00	37.2 AV	54.0	-16.8	2.83 V	74	33.6	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.9 PK	74.0	-7.1	2.99 H	65	34.6	32.3
2	2390.00	52.1 AV	54.0	-1.9	2.99 H	65	19.8	32.3
3	*2437.00	114.0 PK			2.99 H	65	81.7	32.3
4	*2437.00	102.1 AV			2.99 H	65	69.8	32.3
5	2483.50	66.6 PK	74.0	-7.4	2.99 H	65	34.2	32.4
6	2483.50	51.7 AV	54.0	-2.3	2.99 H	65	19.3	32.4
7	4874.00	50.1 PK	74.0	-23.9	2.28 H	126	46.6	3.5
8	4874.00	37.0 AV	54.0	-17.0	2.28 H	126	33.5	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.9 PK	74.0	-5.1	3.03 V	350	36.6	32.3
2	2390.00	52.9 AV	54.0	-1.1	3.03 V	350	20.6	32.3
3	*2437.00	119.5 PK			3.03 V	350	87.2	32.3
4	*2437.00	107.8 AV			3.03 V	350	75.5	32.3
5	2483.50	68.6 PK	74.0	-5.4	3.03 V	350	36.2	32.4
6	2483.50	52.7 AV	54.0	-1.3	3.03 V	350	20.3	32.4
7	4874.00	50.8 PK	74.0	-23.2	2.76 V	79	47.3	3.5
8	4874.00	37.8 AV	54.0	-16.2	2.76 V	79	34.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	108.8 PK			2.97 H	64	76.5	32.3
2	*2462.00	96.7 AV			2.97 H	64	64.4	32.3
3	2483.50	63.2 PK	74.0	-10.8	2.97 H	64	30.8	32.4
4	2483.50	50.2 AV	54.0	-3.8	2.97 H	64	17.8	32.4
5	4924.00	49.7 PK	74.0	-24.3	2.17 H	124	45.9	3.8
6	4924.00	36.6 AV	54.0	-17.4	2.17 H	124	32.8	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	114.6 PK			3.33 V	353	82.3	32.3
2	*2462.00	102.3 AV			3.33 V	353	70.0	32.3
3	2483.50	70.7 PK	74.0	-3.3	3.33 V	353	38.3	32.4
4	2483.50	53.5 AV	54.0	-0.5	3.33 V	353	21.1	32.4
5	4924.00	50.7 PK	74.0	-23.3	2.83 V	77	46.9	3.8
6	4924.00	37.6 AV	54.0	-16.4	2.83 V	77	33.8	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 12：2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	106.0 PK			3.07 H	68	73.7	32.3
2	*2467.00	93.8 AV			3.07 H	68	61.5	32.3
3	2483.50	61.3 PK	74.0	-12.7	3.07 H	68	28.9	32.4
4	2483.50	49.2 AV	54.0	-4.8	3.07 H	68	16.8	32.4
5	4934.00	49.5 PK	74.0	-24.5	2.19 H	142	45.7	3.8
6	4934.00	36.3 AV	54.0	-17.7	2.19 H	142	32.5	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	111.9 PK			3.33 V	352	79.6	32.3
2	*2467.00	99.4 AV			3.33 V	352	67.1	32.3
3	2483.50	65.7 PK	74.0	-8.3	3.33 V	352	33.3	32.4
4	2483.50	52.7 AV	54.0	-1.3	3.33 V	352	20.3	32.4
5	4934.00	50.4 PK	74.0	-23.6	2.86 V	75	46.6	3.8
6	4934.00	37.2 AV	54.0	-16.8	2.86 V	75	33.4	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 13：2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	102.2 PK			3.05 H	64	69.9	32.3
2	*2472.00	89.9 AV			3.05 H	64	57.6	32.3
3	2483.50	61.1 PK	74.0	-12.9	3.05 H	64	28.7	32.4
4	2483.50	48.7 AV	54.0	-5.3	3.05 H	64	16.3	32.4
5	4944.00	49.5 PK	74.0	-24.5	2.23 H	138	45.6	3.9
6	4944.00	36.3 AV	54.0	-17.7	2.23 H	138	32.4	3.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	107.9 PK			3.31 V	350	75.6	32.3
2	*2472.00	95.6 AV			3.31 V	350	63.3	32.3
3	2483.50	66.3 PK	74.0	-7.7	3.31 V	350	33.9	32.4
4	2483.50	53.2 AV	54.0	-0.8	3.31 V	350	20.8	32.4
5	4944.00	50.2 PK	74.0	-23.8	2.74 V	67	46.3	3.9
6	4944.00	37.2 AV	54.0	-16.8	2.74 V	67	33.3	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.9 PK	74.0	-10.1	2.97 H	65	31.6	32.3
2	2390.00	49.4 AV	54.0	-4.6	2.97 H	65	17.1	32.3
3	*2422.00	110.0 PK			2.97 H	65	77.6	32.4
4	*2422.00	98.5 AV			2.97 H	65	66.1	32.4
5	4844.00	50.0 PK	74.0	-24.0	2.31 H	128	46.4	3.6
6	4844.00	36.9 AV	54.0	-17.1	2.31 H	128	33.3	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.1 PK	74.0	-5.9	3.02 V	350	35.8	32.3
2	2390.00	52.4 AV	54.0	-1.6	3.02 V	350	20.1	32.3
3	*2422.00	114.7 PK			3.02 V	350	82.3	32.4
4	*2422.00	104.2 AV			3.02 V	350	71.8	32.4
5	4844.00	50.5 PK	74.0	-23.5	2.81 V	82	46.9	3.6
6	4844.00	37.6 AV	54.0	-16.4	2.81 V	82	34.0	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	108.4 PK			2.99 H	64	76.1	32.3
2	*2437.00	98.1 AV			2.99 H	64	65.8	32.3
3	4874.00	49.7 PK	74.0	-24.3	2.21 H	128	46.2	3.5
4	4874.00	36.8 AV	54.0	-17.2	2.21 H	128	33.3	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	114.4 PK			3.03 V	351	82.1	32.3
2	*2437.00	103.8 AV			3.03 V	351	71.5	32.3
3	4874.00	50.8 PK	74.0	-23.2	2.86 V	77	47.3	3.5
4	4874.00	37.8 AV	54.0	-16.2	2.86 V	77	34.3	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	107.1 PK			2.95 H	61	74.8	32.3
2	*2452.00	95.9 AV			2.95 H	61	63.6	32.3
3	2483.50	63.2 PK	74.0	-10.8	2.95 H	61	30.8	32.4
4	2483.50	49.9 AV	54.0	-4.1	2.95 H	61	17.5	32.4
5	4904.00	49.5 PK	74.0	-24.5	2.21 H	143	45.9	3.6
6	4904.00	36.7 AV	54.0	-17.3	2.21 H	143	33.1	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	113.0 PK			3.02 V	350	80.7	32.3
2	*2452.00	101.8 AV			3.02 V	350	69.5	32.3
3	2483.50	66.2 PK	74.0	-7.8	3.02 V	350	33.8	32.4
4	2483.50	53.3 AV	54.0	-0.7	3.02 V	350	20.9	32.4
5	4904.00	50.6 PK	74.0	-23.4	2.89 V	78	47.0	3.6
6	4904.00	37.5 AV	54.0	-16.5	2.89 V	78	33.9	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 10：2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	103.9 PK			2.93 H	69	71.6	32.3
2	*2457.00	92.6 AV			2.93 H	69	60.3	32.3
3	2483.50	61.5 PK	74.0	-12.5	2.93 H	69	29.1	32.4
4	2483.50	49.0 AV	54.0	-5.0	2.93 H	69	16.6	32.4
5	4914.00	50.0 PK	74.0	-24.0	2.14 H	126	46.3	3.7
6	4914.00	37.1 AV	54.0	-16.9	2.14 H	126	33.4	3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	109.6 PK			3.03 V	352	77.3	32.3
2	*2457.00	98.1 AV			3.03 V	352	65.8	32.3
3	2483.50	65.6 PK	74.0	-8.4	3.03 V	352	33.2	32.4
4	2483.50	53.2 AV	54.0	-0.8	3.03 V	352	20.8	32.4
5	4914.00	50.5 PK	74.0	-23.5	2.76 V	68	46.8	3.7
6	4914.00	37.4 AV	54.0	-16.6	2.76 V	68	33.7	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	96.1 PK			2.98 H	65	63.8	32.3
2	*2462.00	84.7 AV			2.98 H	65	52.4	32.3
3	2483.50	67.5 PK	74.0	-6.5	2.98 H	65	35.1	32.4
4	2483.50	46.9 AV	54.0	-7.1	2.98 H	65	14.5	32.4
5	4924.00	49.9 PK	74.0	-24.1	2.25 H	143	46.1	3.8
6	4924.00	37.0 AV	54.0	-17.0	2.25 H	143	33.2	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	101.5 PK			2.98 V	353	69.2	32.3
2	*2462.00	90.0 AV			2.98 V	353	57.7	32.3
3	2483.50	73.5 PK	74.0	-0.5	2.98 V	353	41.1	32.4
4	2483.50	49.4 AV	54.0	-4.6	2.98 V	353	17.0	32.4
5	4924.00	50.3 PK	74.0	-23.7	2.87 V	75	46.5	3.8
6	4924.00	37.4 AV	54.0	-16.6	2.87 V	75	33.6	3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 3：2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	3.01 H	69	33.6	32.3
2	2390.00	51.1 AV	54.0	-2.9	3.01 H	69	18.8	32.3
3	*2422.00	105.5 PK			3.01 H	69	73.1	32.4
4	*2422.00	93.1 AV			3.01 H	69	60.7	32.4
5	4844.00	49.3 PK	74.0	-24.7	2.27 H	135	45.7	3.6
6	4844.00	36.2 AV	54.0	-17.8	2.27 H	135	32.6	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	3.03 V	352	36.1	32.3
2	2390.00	53.2 AV	54.0	-0.8	3.03 V	352	20.9	32.3
3	*2422.00	111.2 PK			3.03 V	352	78.8	32.4
4	*2422.00	98.7 AV			3.03 V	352	66.3	32.4
5	4844.00	50.2 PK	74.0	-23.8	2.81 V	73	46.6	3.6
6	4844.00	37.3 AV	54.0	-16.7	2.81 V	73	33.7	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 6：2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	108.4 PK			2.96 H	58	76.1	32.3
2	*2437.00	96.0 AV			2.96 H	58	63.7	32.3
3	2483.50	66.0 PK	74.0	-8.0	2.96 H	58	33.6	32.4
4	2483.50	49.8 AV	54.0	-4.2	2.96 H	58	17.4	32.4
5	4874.00	49.1 PK	74.0	-24.9	2.21 H	129	45.6	3.5
6	4874.00	36.0 AV	54.0	-18.0	2.21 H	129	32.5	3.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	114.1 PK			3.05 V	354	81.8	32.3
2	*2437.00	101.6 AV			3.05 V	354	69.3	32.3
3	2483.50	68.6 PK	74.0	-5.4	3.05 V	354	36.2	32.4
4	2483.50	53.1 AV	54.0	-0.9	3.05 V	354	20.7	32.4
5	4874.00	50.2 PK	74.0	-23.8	2.73 V	82	46.7	3.5
6	4874.00	37.0 AV	54.0	-17.0	2.73 V	82	33.5	3.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 9：2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	104.5 PK			2.95 H	59	72.2	32.3
2	*2452.00	92.1 AV			2.95 H	59	59.8	32.3
3	2483.50	63.7 PK	74.0	-10.3	2.95 H	59	31.3	32.4
4	2483.50	50.6 AV	54.0	-3.4	2.95 H	59	18.2	32.4
5	4904.00	49.2 PK	74.0	-24.8	2.28 H	137	45.6	3.6
6	4904.00	36.1 AV	54.0	-17.9	2.28 H	137	32.5	3.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	109.9 PK			2.99 V	351	77.6	32.3
2	*2452.00	97.5 AV			2.99 V	351	65.2	32.3
3	2483.50	69.1 PK	74.0	-4.9	2.99 V	351	36.7	32.4
4	2483.50	53.3 AV	54.0	-0.7	2.99 V	351	20.9	32.4
5	4904.00	50.0 PK	74.0	-24.0	2.76 V	78	46.4	3.6
6	4904.00	37.0 AV	54.0	-17.0	2.76 V	78	33.4	3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 10：2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	101.1 PK			2.93 H	74	68.8	32.3
2	*2457.00	88.8 AV			2.93 H	74	56.5	32.3
3	2483.50	63.2 PK	74.0	-10.8	2.93 H	74	30.8	32.4
4	2483.50	49.9 AV	54.0	-4.1	2.93 H	74	17.5	32.4
5	4914.00	49.2 PK	74.0	-24.8	2.28 H	121	45.5	3.7
6	4914.00	36.1 AV	54.0	-17.9	2.28 H	121	32.4	3.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2457.00	106.9 PK			3.00 V	350	74.6	32.3
2	*2457.00	94.4 AV			3.00 V	350	62.1	32.3
3	2483.50	68.7 PK	74.0	-5.3	3.00 V	350	36.3	32.4
4	2483.50	53.4 AV	54.0	-0.6	3.00 V	350	21.0	32.4
5	4914.00	50.0 PK	74.0	-24.0	2.84 V	71	46.3	3.7
6	4914.00	37.0 AV	54.0	-17.0	2.84 V	71	33.3	3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 11：2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	98.9 PK			2.97 H	60	66.6	32.3
2	*2462.00	86.4 AV			2.97 H	60	54.1	32.3
3	2483.50	62.1 PK	74.0	-11.9	2.97 H	60	29.7	32.4
4	2483.50	50.1 AV	54.0	-3.9	2.97 H	60	17.7	32.4
5	4924.00	49.2 PK	74.0	-24.8	2.16 H	143	45.4	3.8
6	4924.00	36.2 AV	54.0	-17.8	2.16 H	143	32.4	3.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.2 PK			3.01 V	351	71.9	32.3
2	*2462.00	91.8 AV			3.01 V	351	59.5	32.3
3	2483.50	66.7 PK	74.0	-7.3	3.01 V	351	34.3	32.4
4	2483.50	53.2 AV	54.0	-0.8	3.01 V	351	20.8	32.4
5	4924.00	50.0 PK	74.0	-24.0	2.83 V	81	46.2	3.8
6	4924.00	36.8 AV	54.0	-17.2	2.83 V	81	33.0	3.8

Remarks:

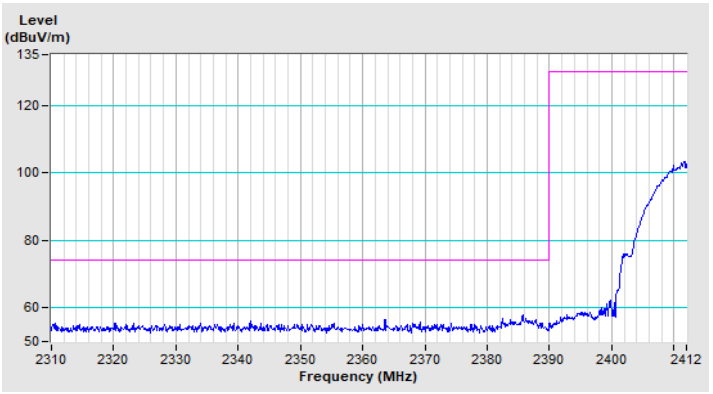
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Plot of Band Edge

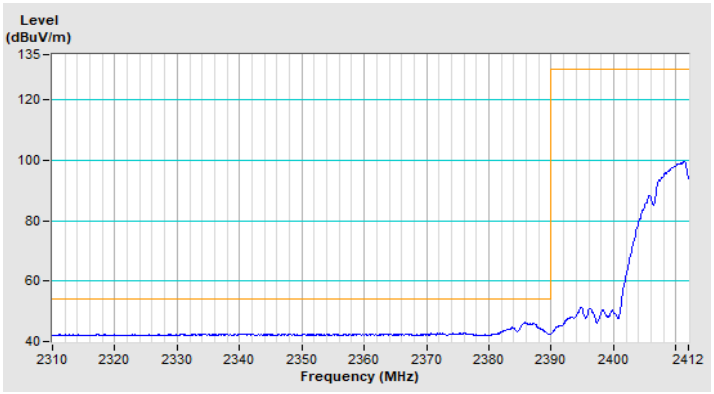
Chain 0

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

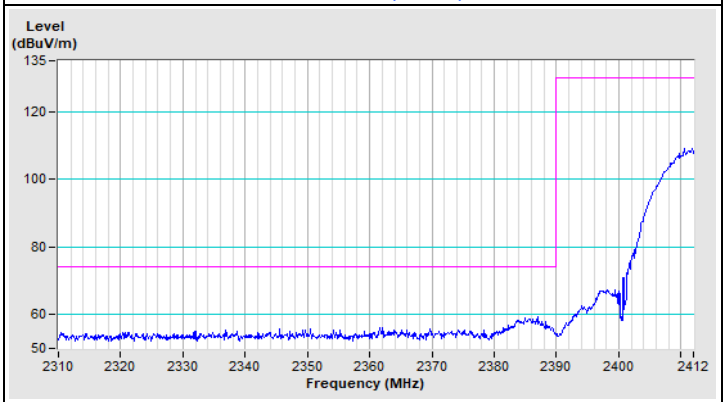
802.11b Channel 1



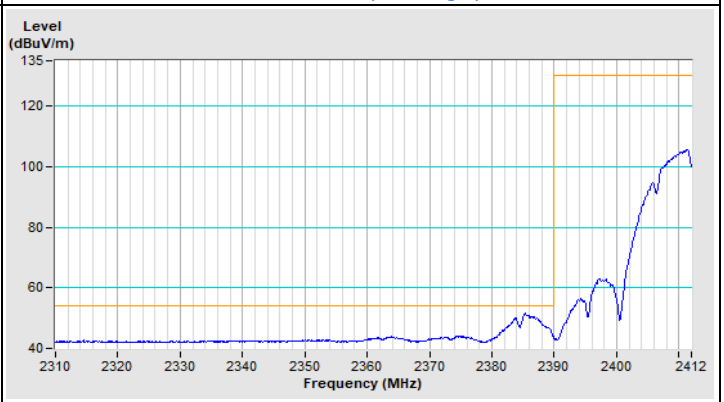
Horizontal (Peak)



Horizontal (Average)



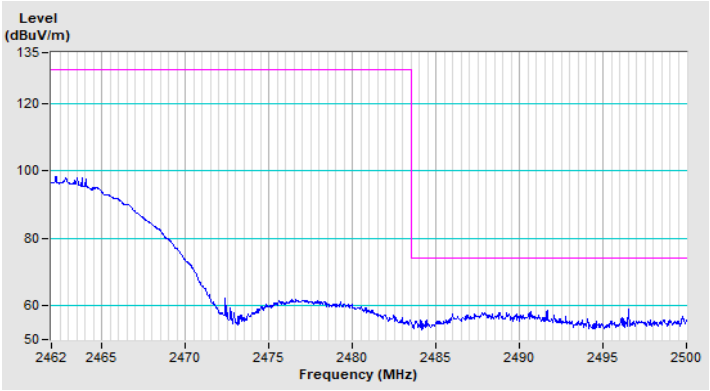
Vertical (Peak)



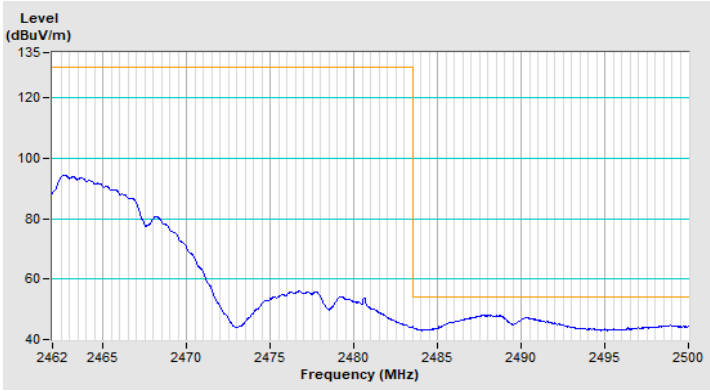
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

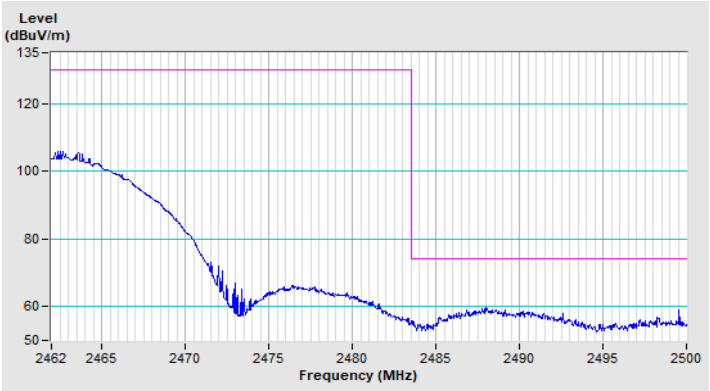
802.11b Channel 11



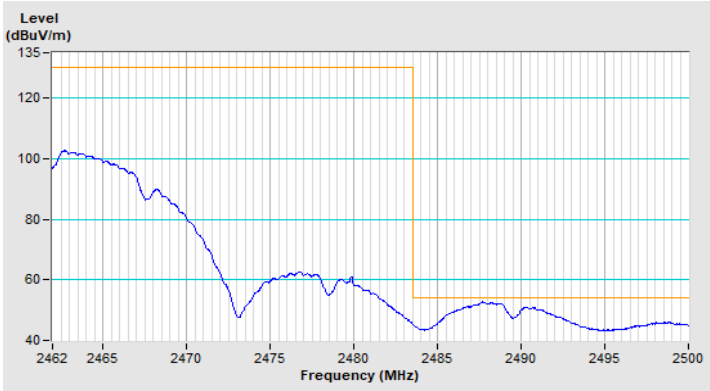
Horizontal (Peak)



Horizontal (Average)

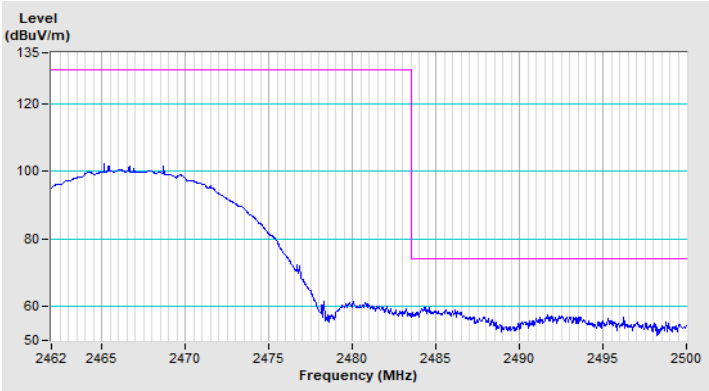


Vertical (Peak)

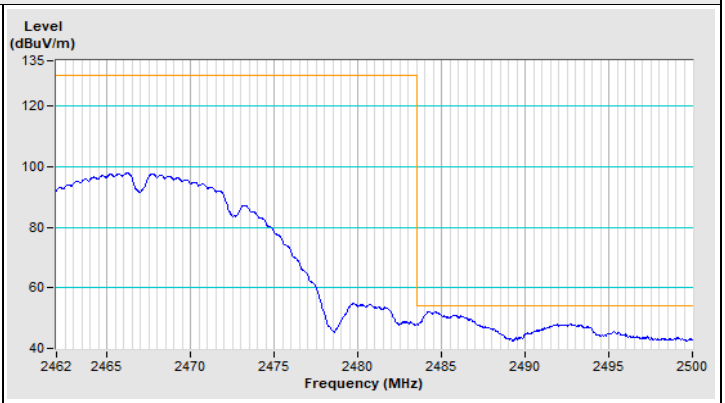


Vertical (Average)

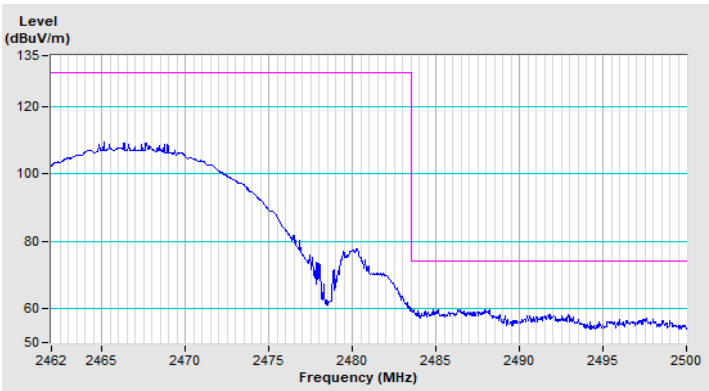
802.11b Channel 12



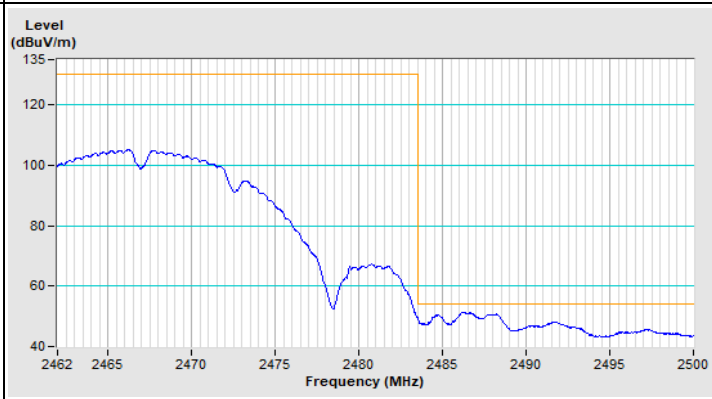
Horizontal (Peak)



Horizontal (Average)

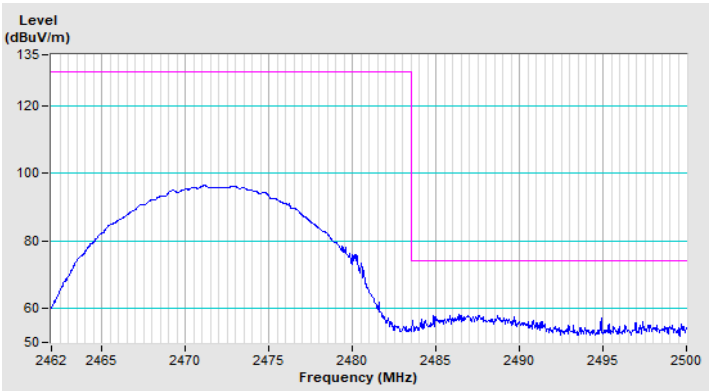


Vertical (Peak)

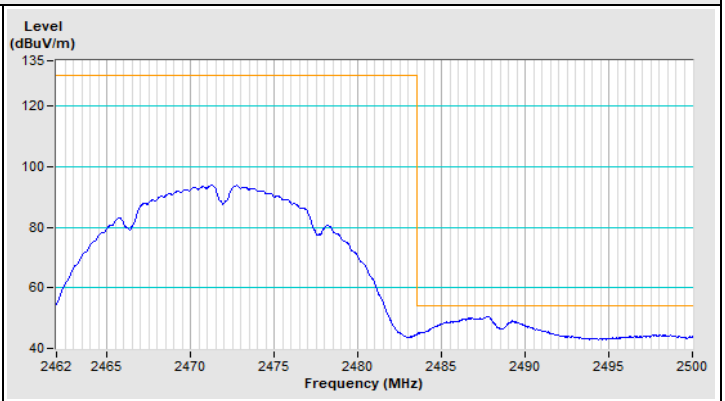


Vertical (Average)

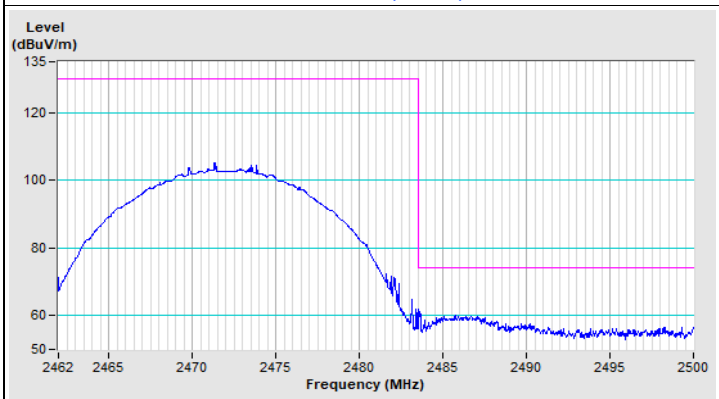
802.11b Channel 13



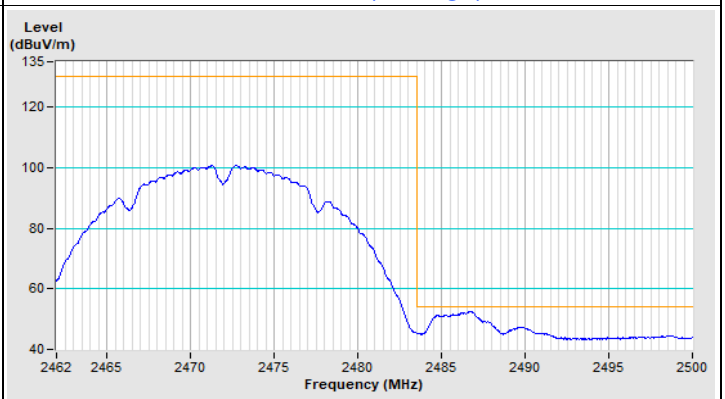
Horizontal (Peak)



Horizontal (Average)



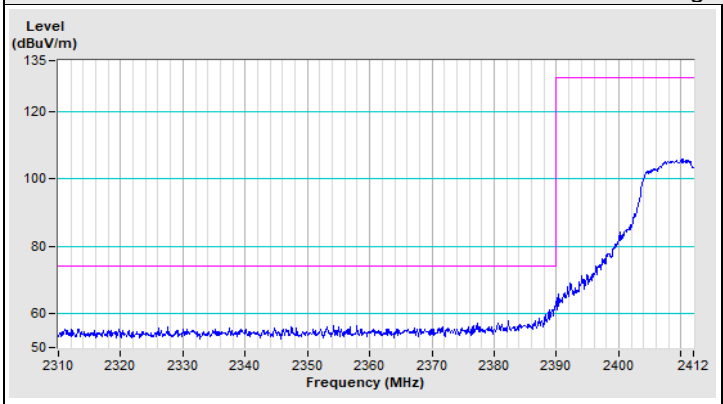
Vertical (Peak)



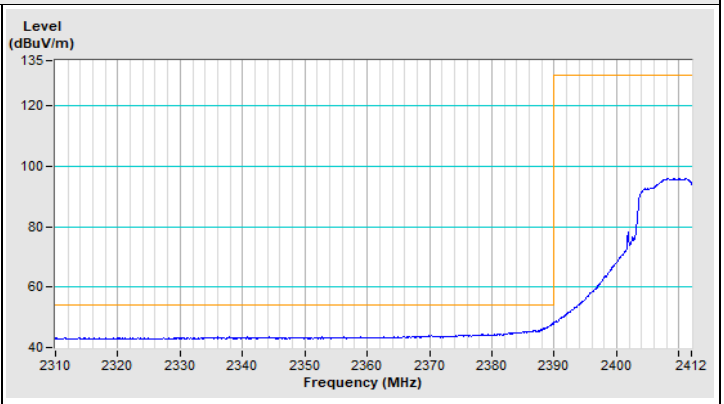
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

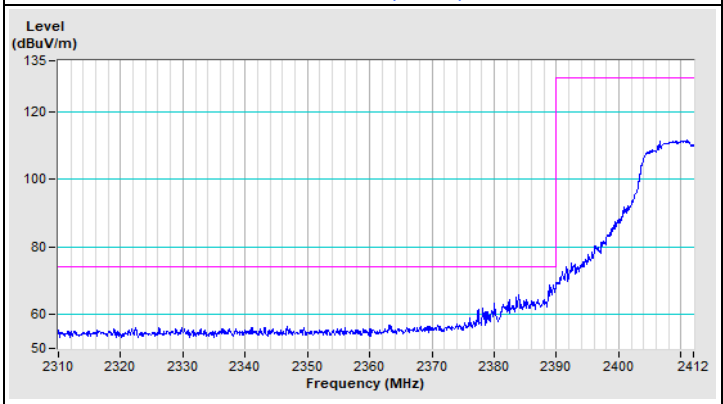
802.11g Channel 1



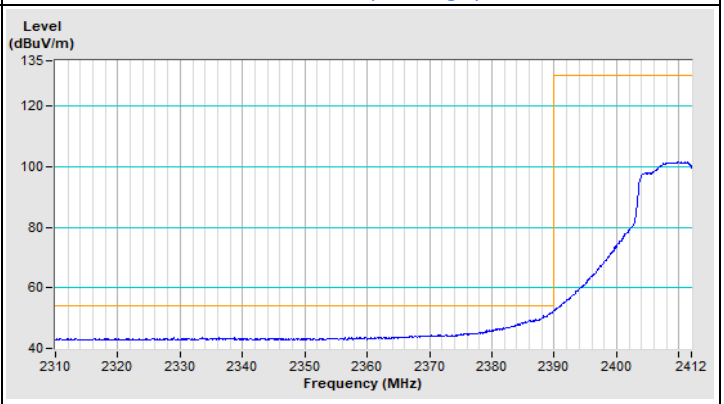
Horizontal (Peak)



Horizontal (Average)



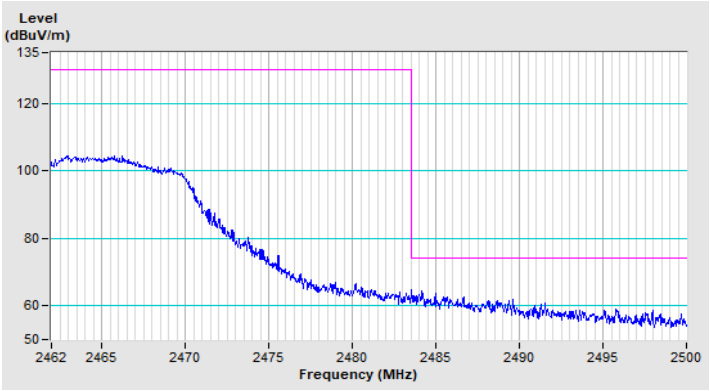
Vertical (Peak)



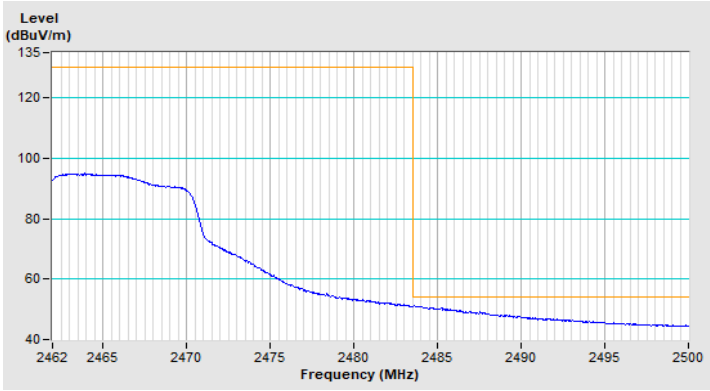
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

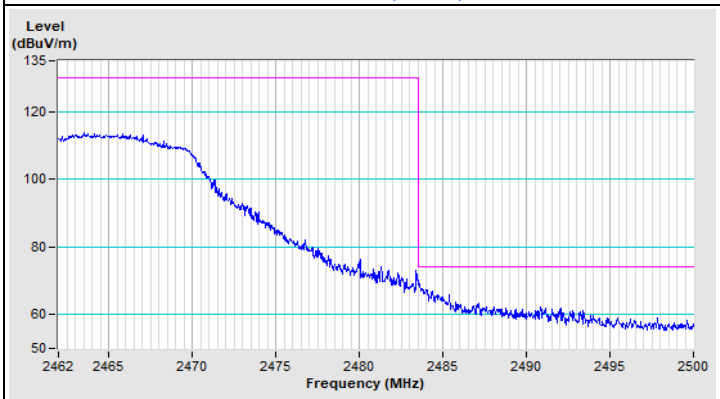
802.11g Channel 11



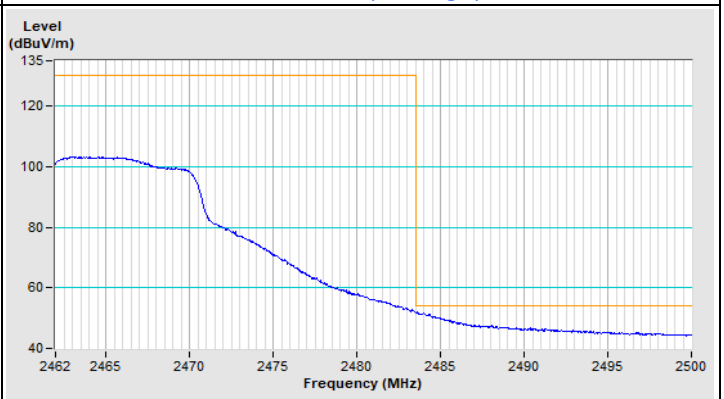
Horizontal (Peak)



Horizontal (Average)

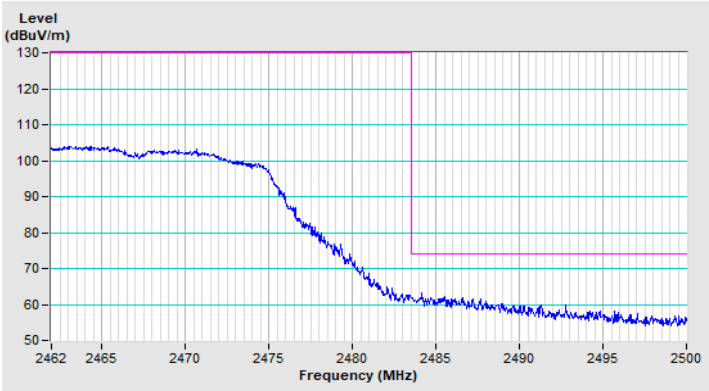


Vertical (Peak)

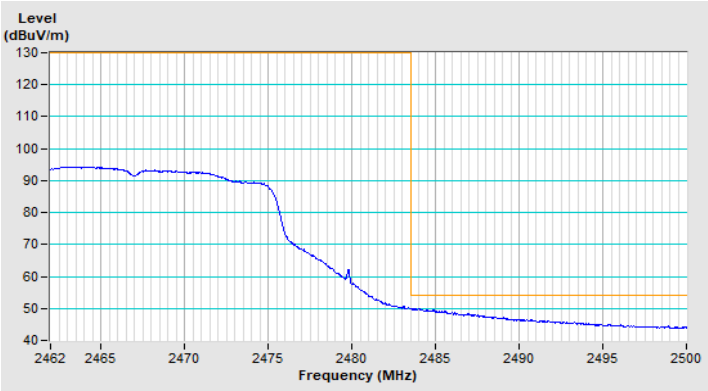


Vertical (Average)

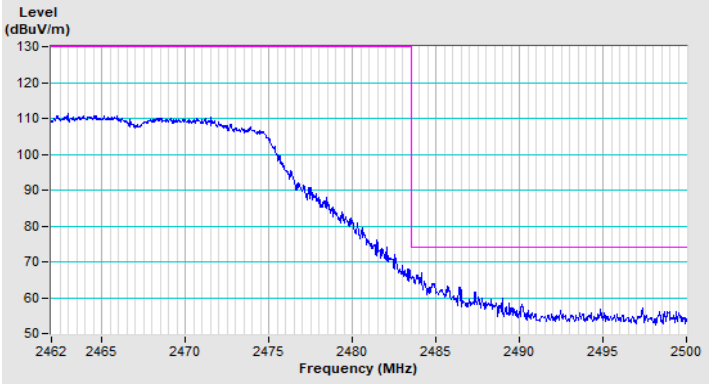
802.11g Channel 12



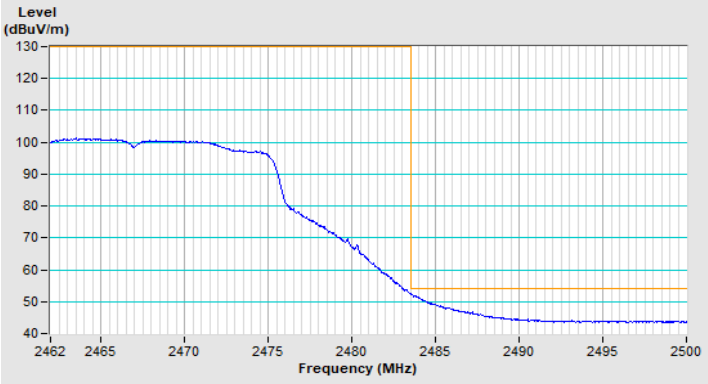
Horizontal (Peak)



Horizontal (Average)

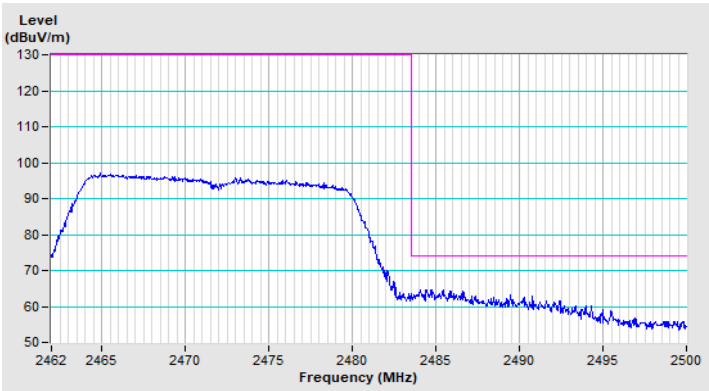


Vertical (Peak)

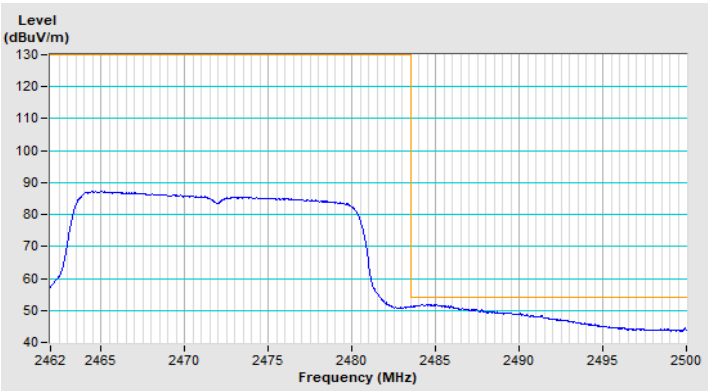


Vertical (Average)

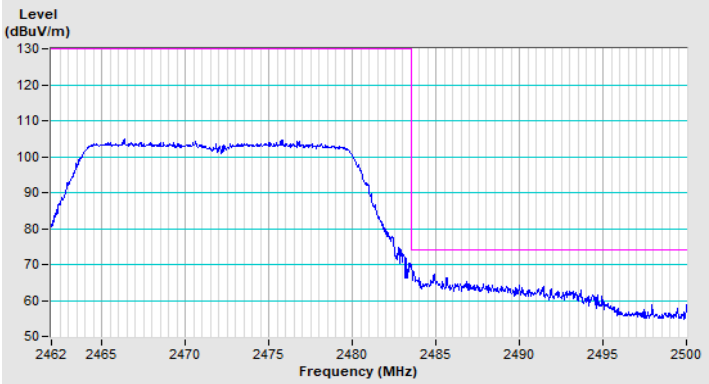
802.11g Channel 13



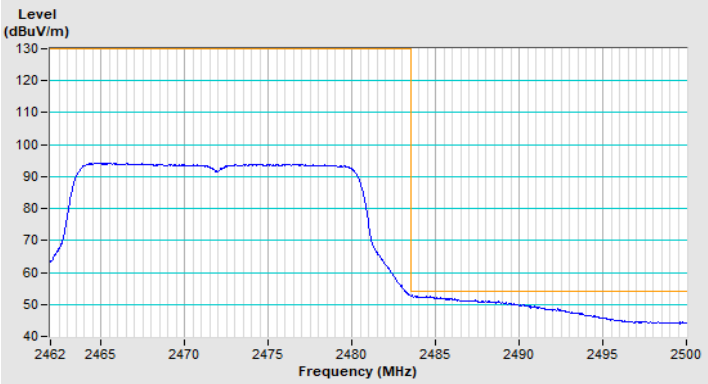
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

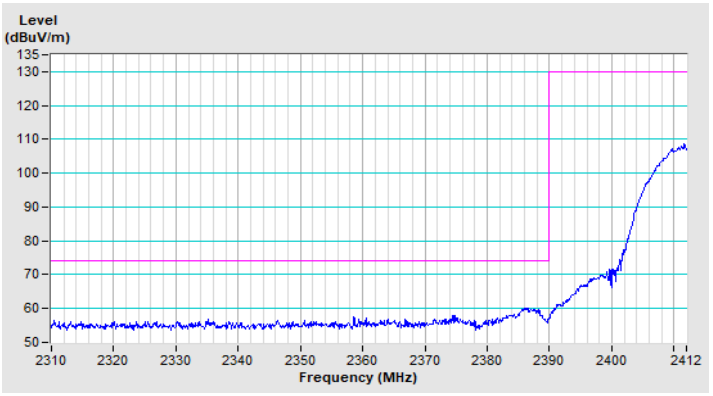


Vertical (Average)

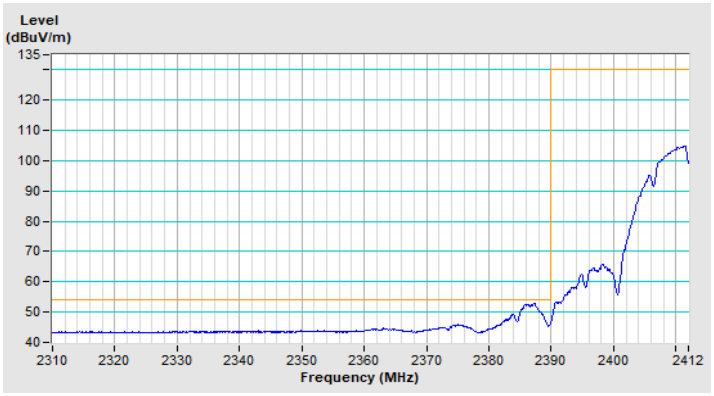
Chain 1

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

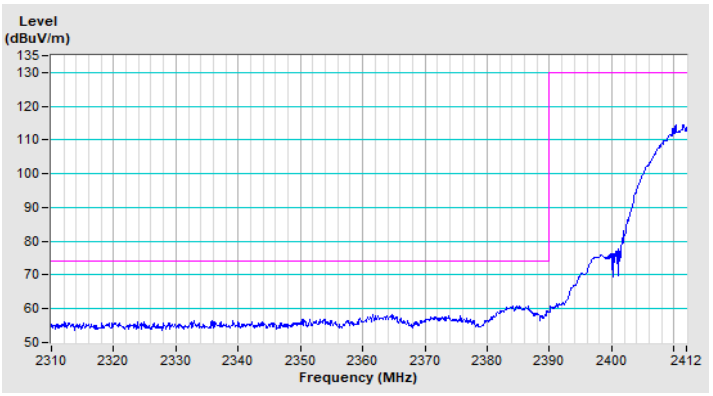
802.11b Channel 1



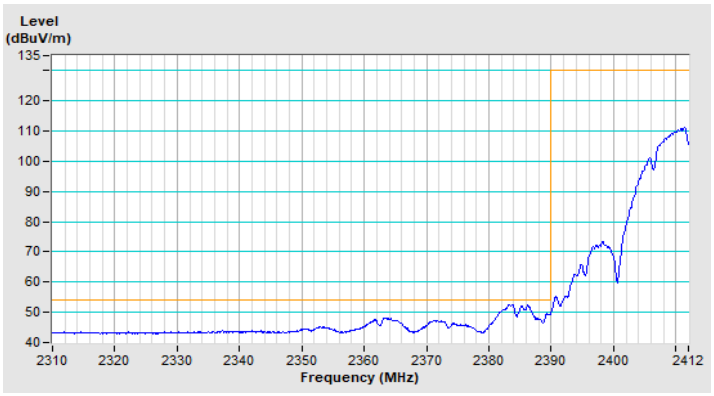
Horizontal (Peak)



Horizontal (Average)



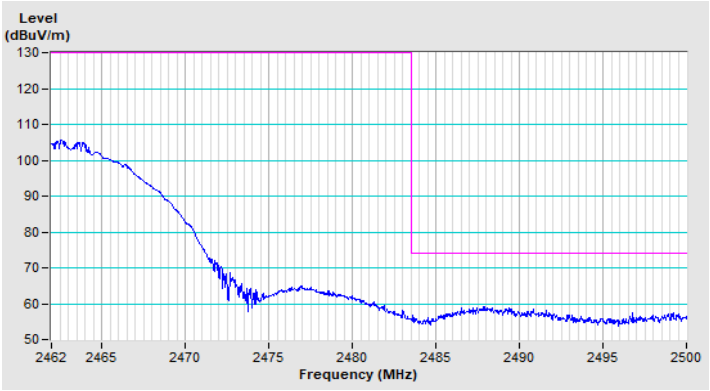
Vertical (Peak)



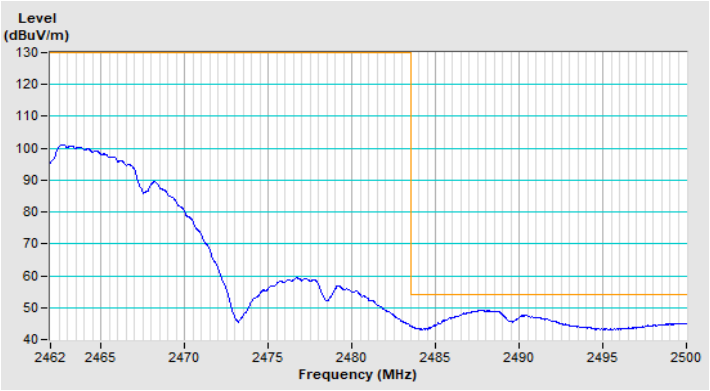
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

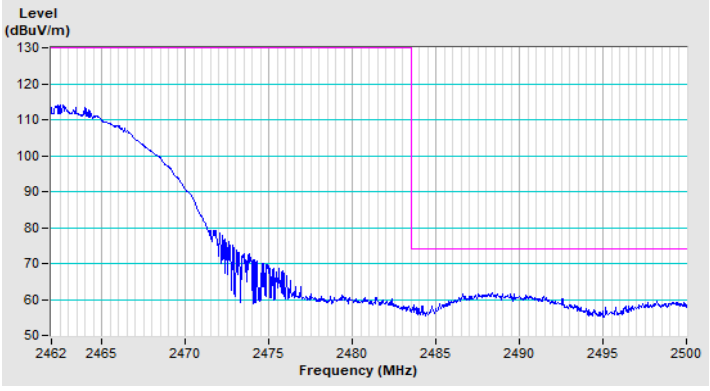
802.11b Channel 11



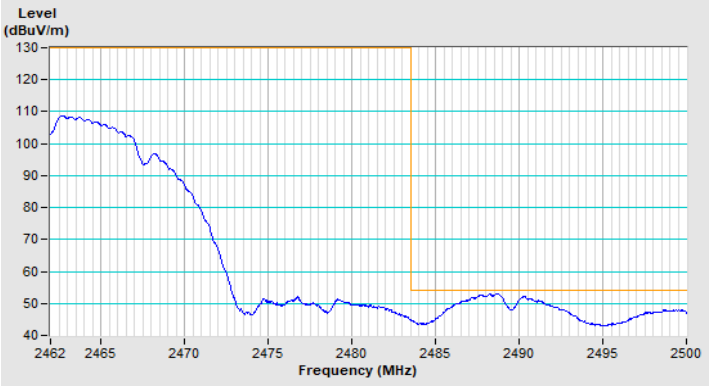
Horizontal (Peak)



Horizontal (Average)

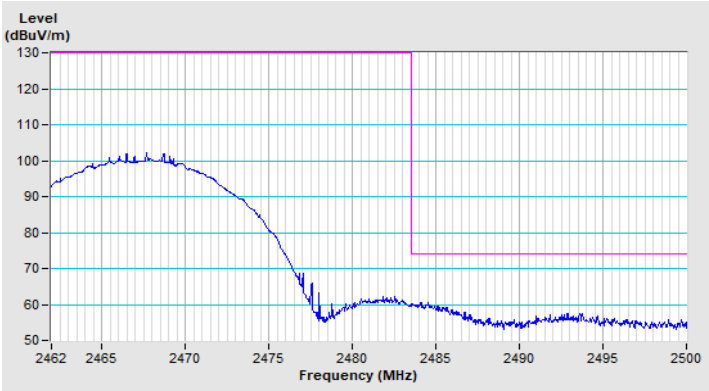


Vertical (Peak)

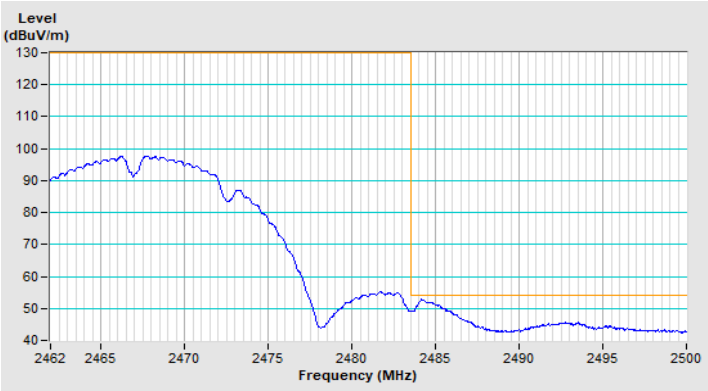


Vertical (Average)

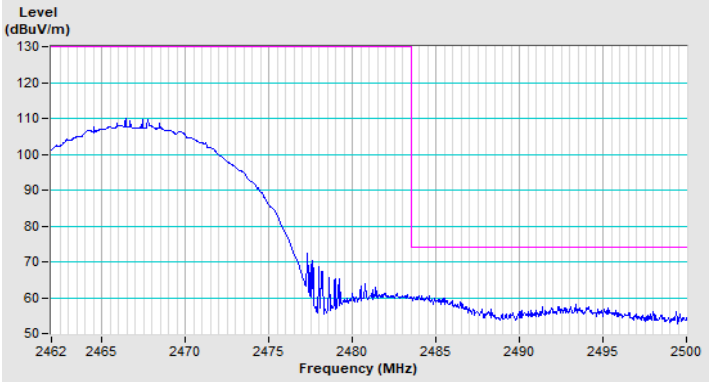
802.11b Channel 12



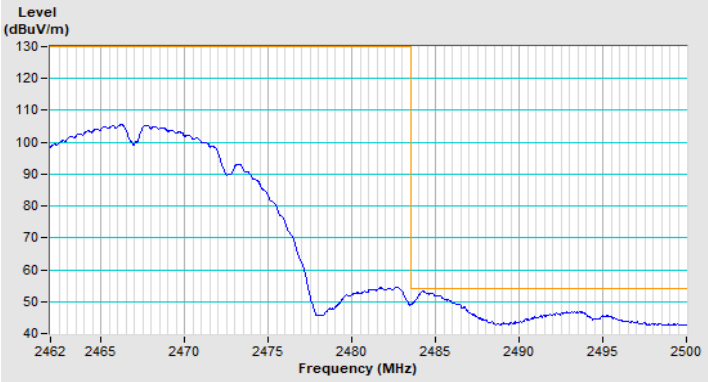
Horizontal (Peak)



Horizontal (Average)

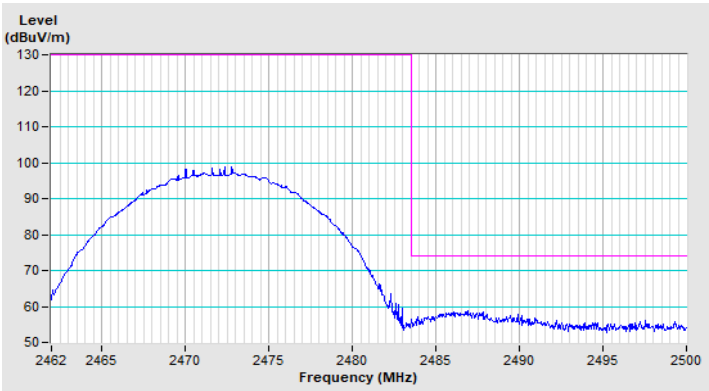


Vertical (Peak)

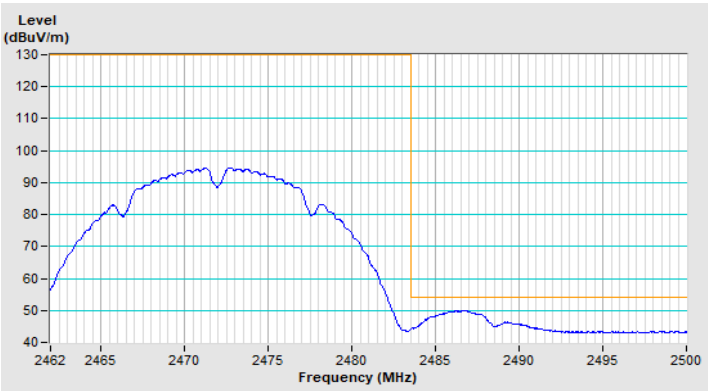


Vertical (Average)

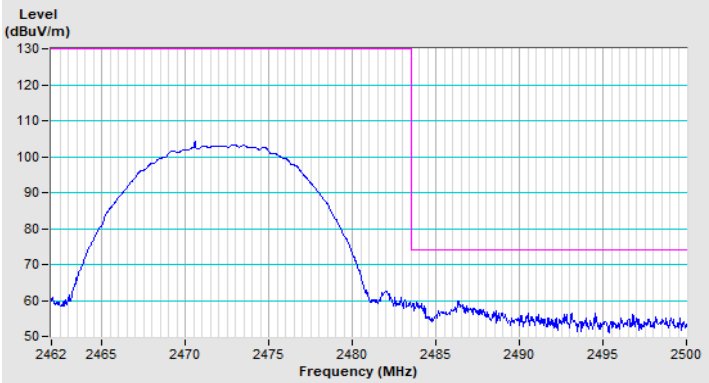
802.11b Channel 13



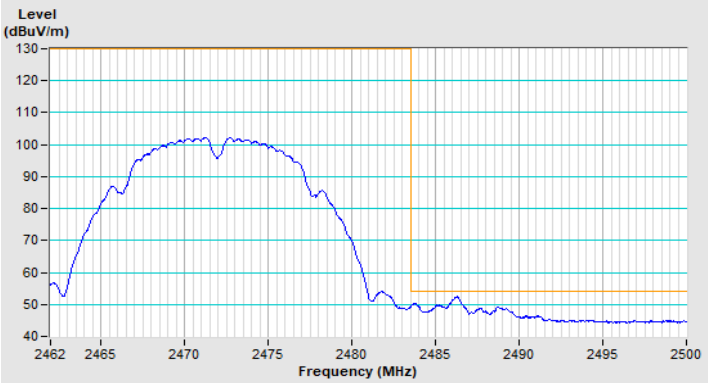
Horizontal (Peak)



Horizontal (Average)



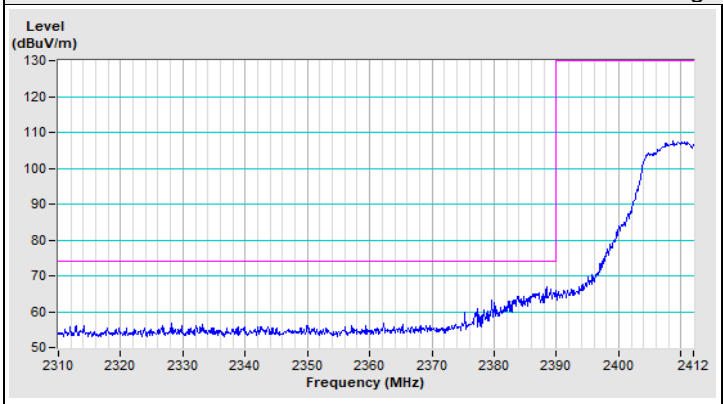
Vertical (Peak)



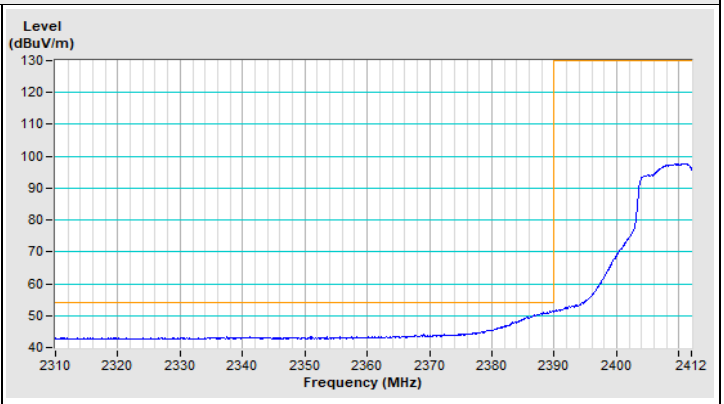
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

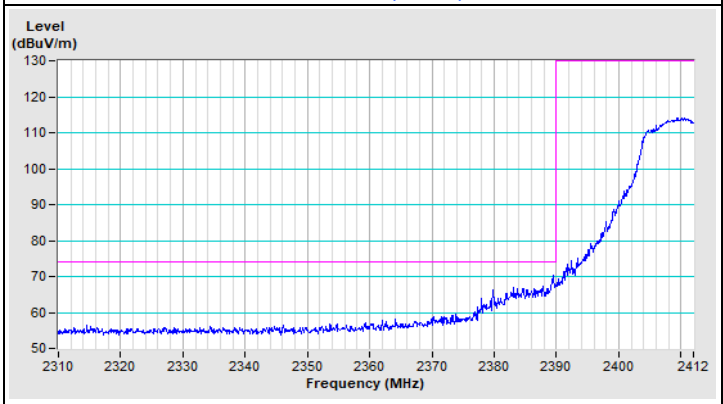
802.11g Channel 1



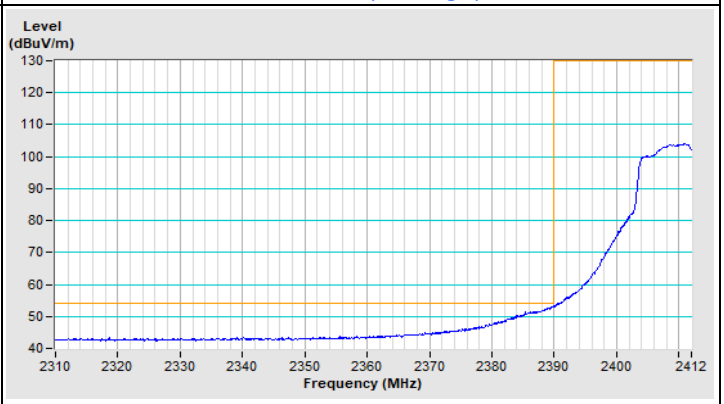
Horizontal (Peak)



Horizontal (Average)



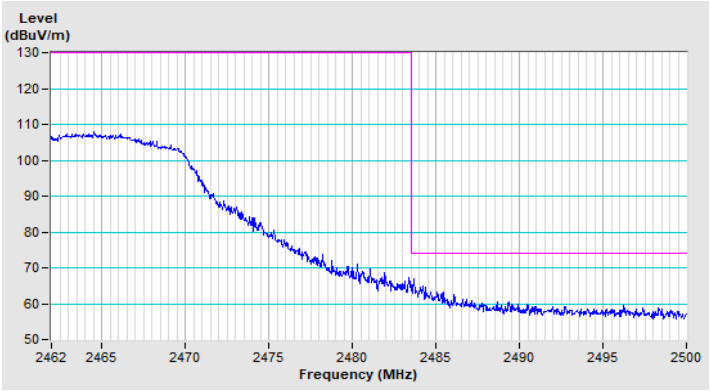
Vertical (Peak)



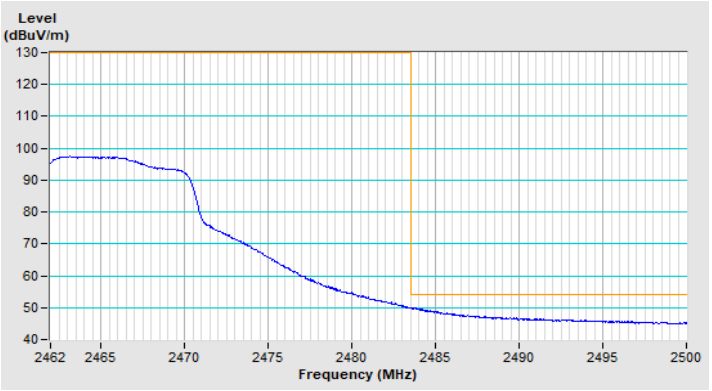
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

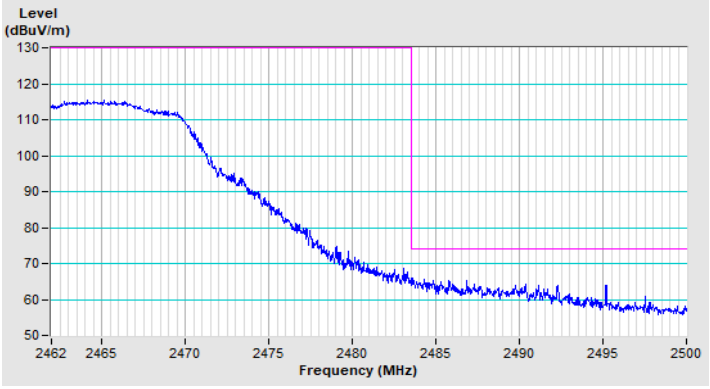
802.11g Channel 11



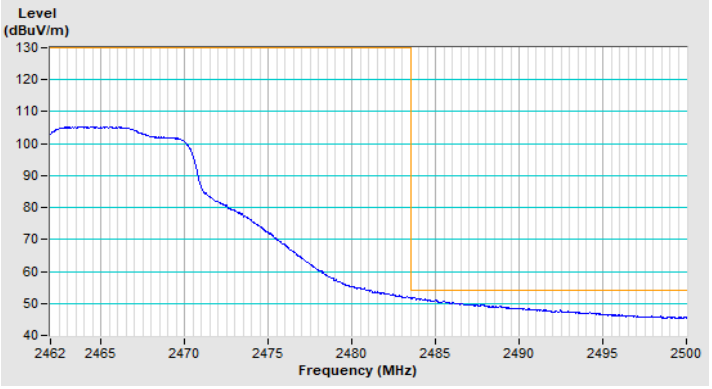
Horizontal (Peak)



Horizontal (Average)

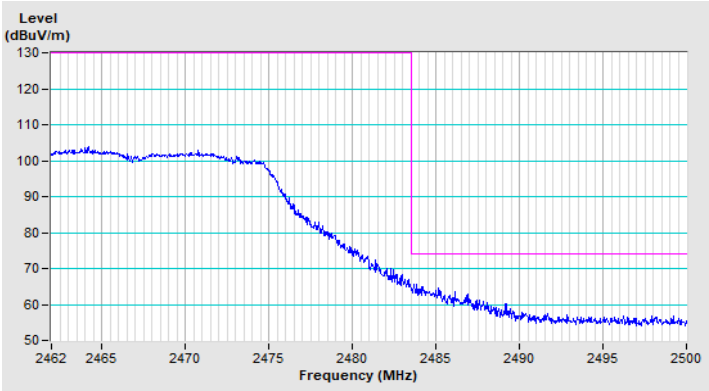


Vertical (Peak)

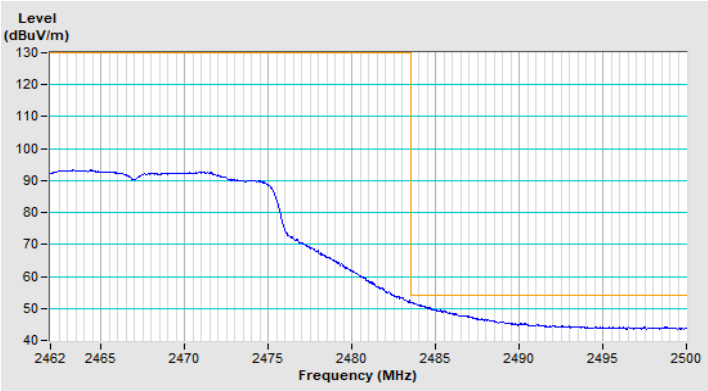


Vertical (Average)

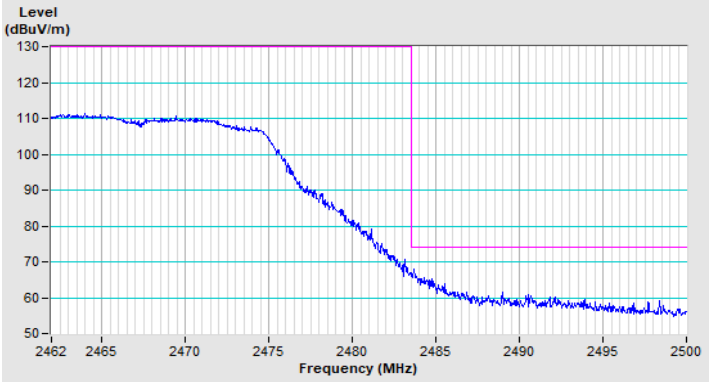
802.11g Channel 12



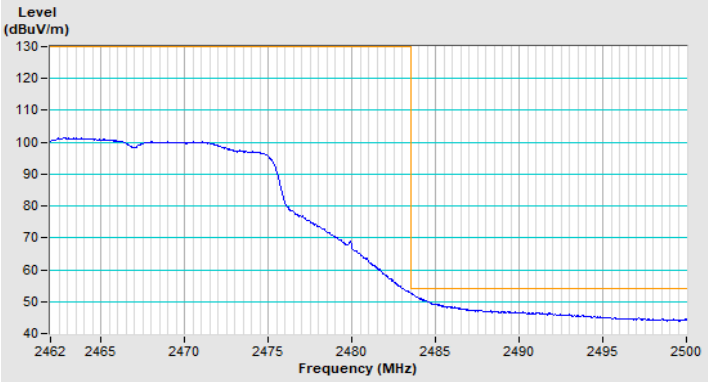
Horizontal (Peak)



Horizontal (Average)

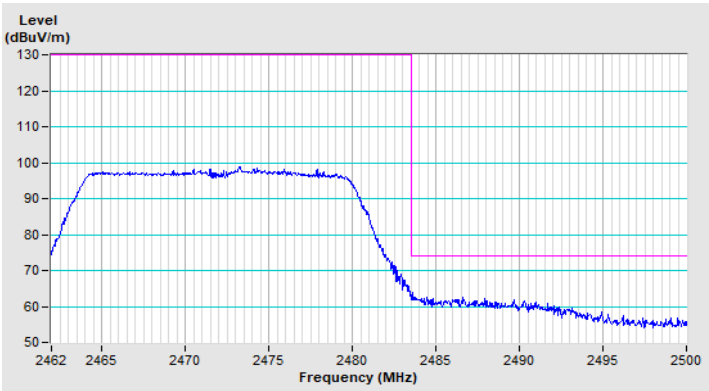


Vertical (Peak)

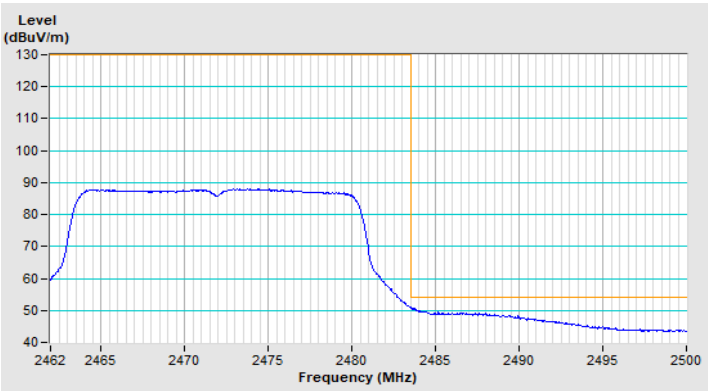


Vertical (Average)

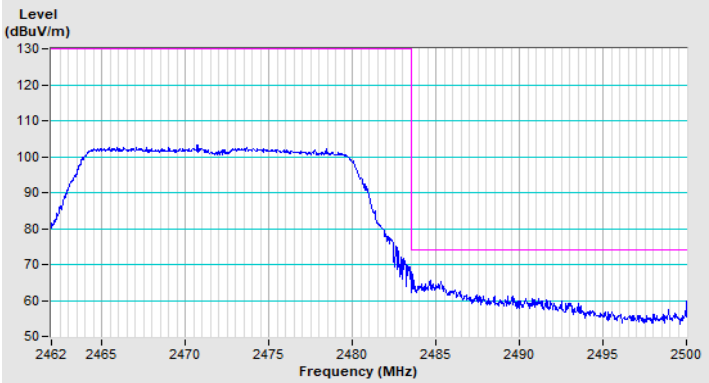
802.11g Channel 13



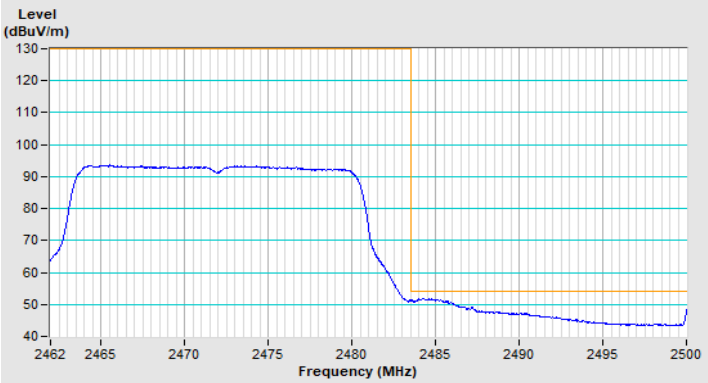
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

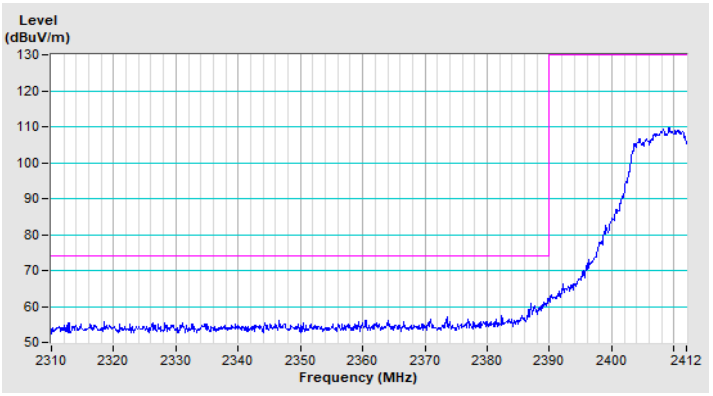


Vertical (Average)

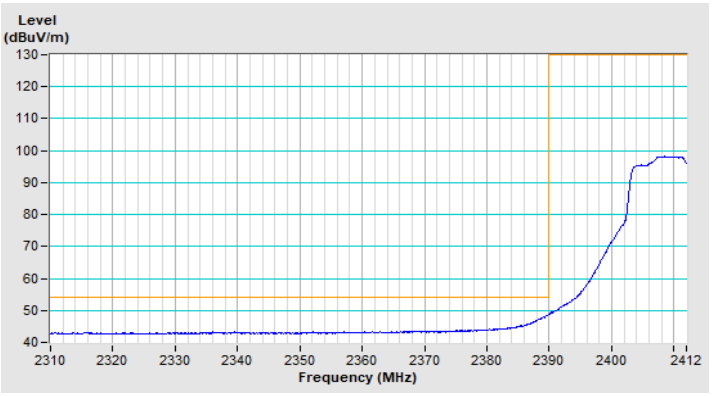
MIMO

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

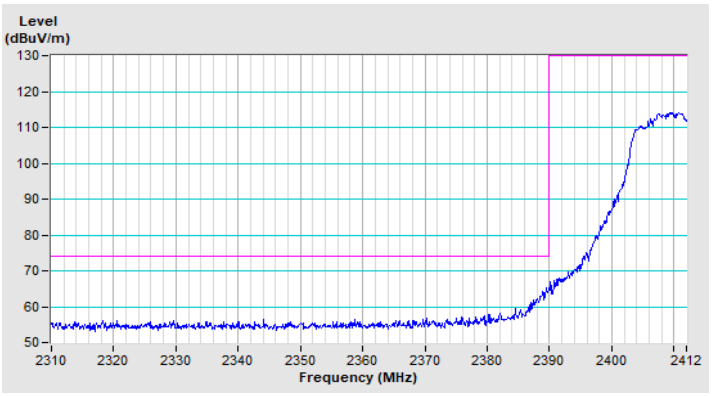
802.11n (HT20) Channel 1



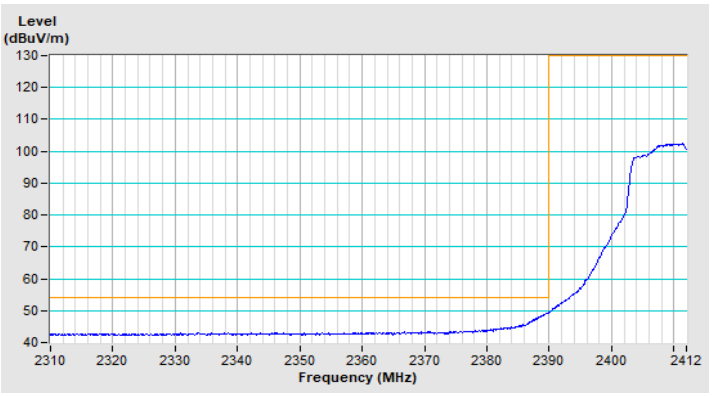
Horizontal (Peak)



Horizontal (Average)



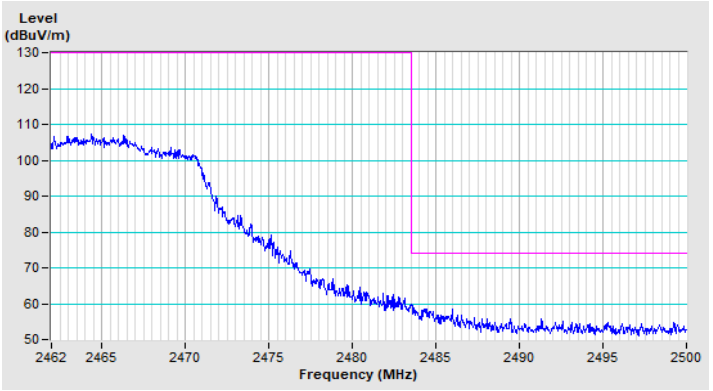
Vertical (Peak)



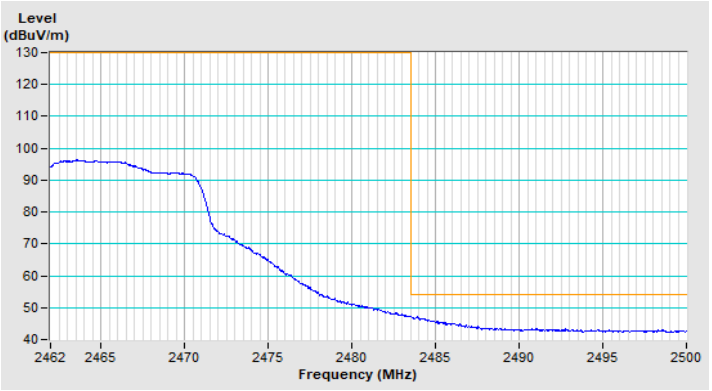
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

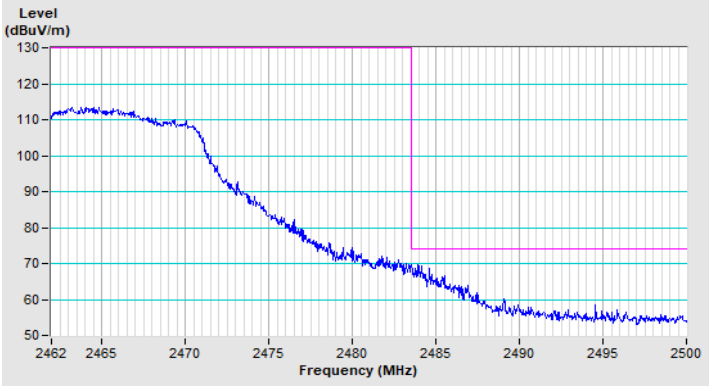
802.11n (HT20) Channel 11



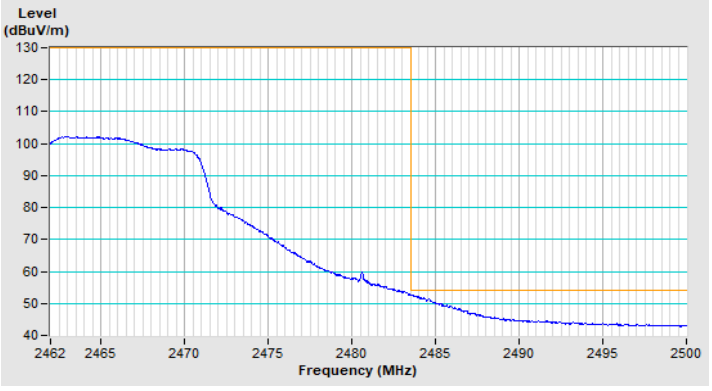
Horizontal (Peak)



Horizontal (Average)

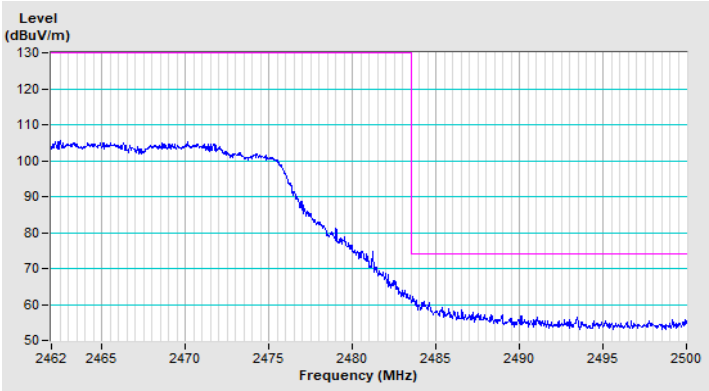


Vertical (Peak)

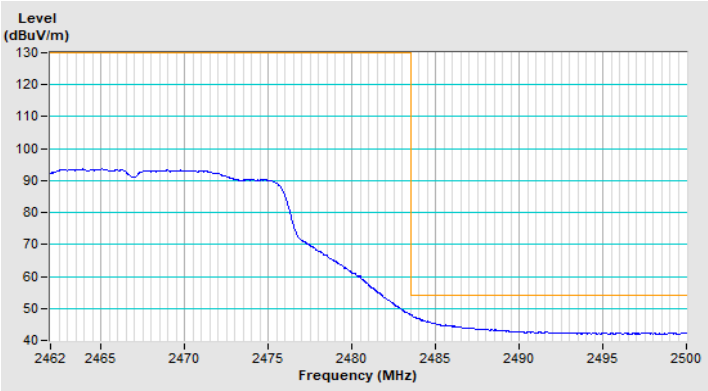


Vertical (Average)

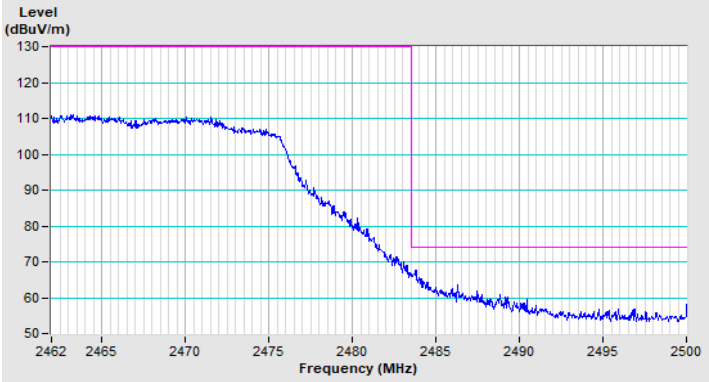
802.11n (HT20) Channel 12



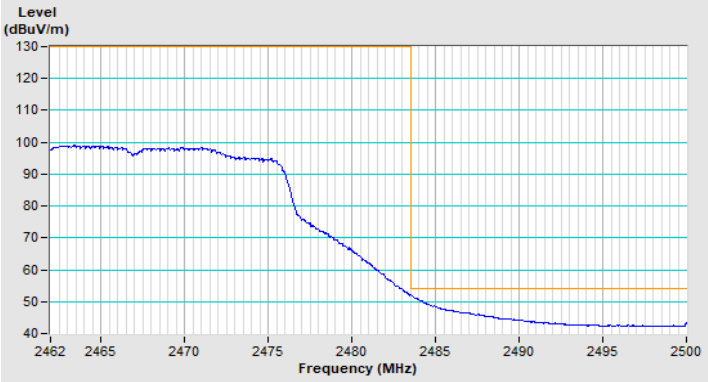
Horizontal (Peak)



Horizontal (Average)

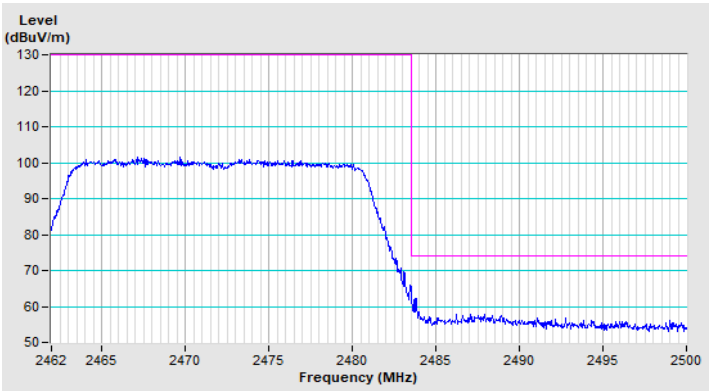


Vertical (Peak)

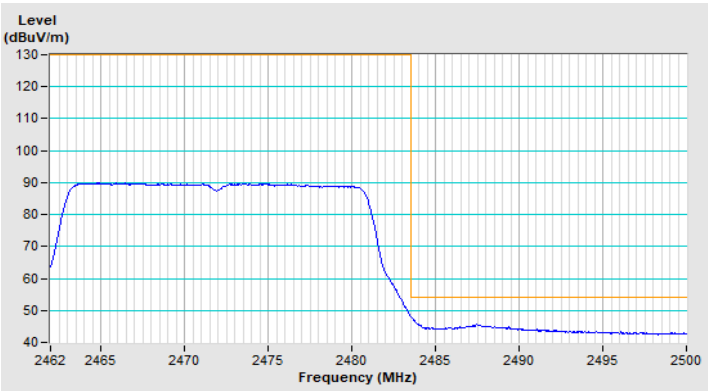


Vertical (Average)

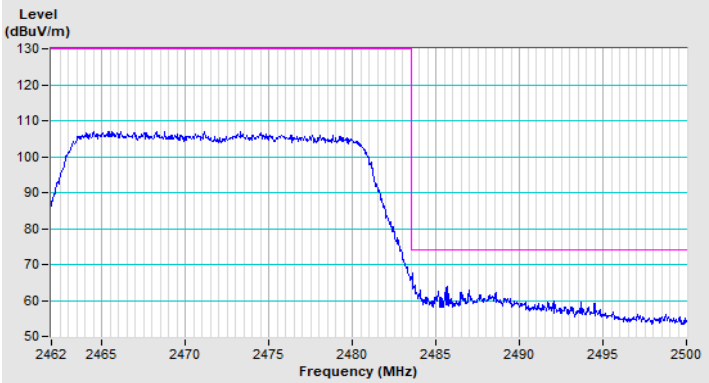
802.11n (HT20) Channel 13



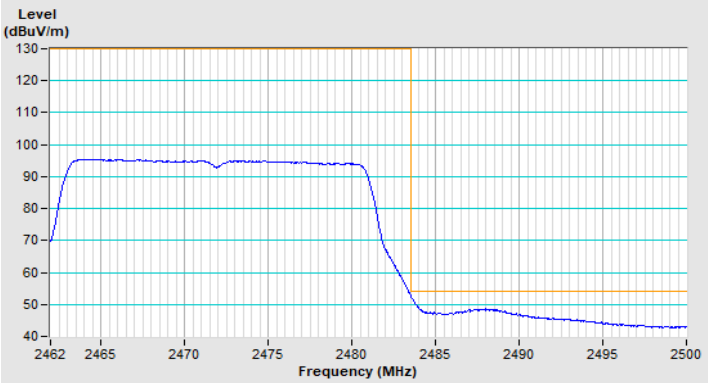
Horizontal (Peak)



Horizontal (Average)



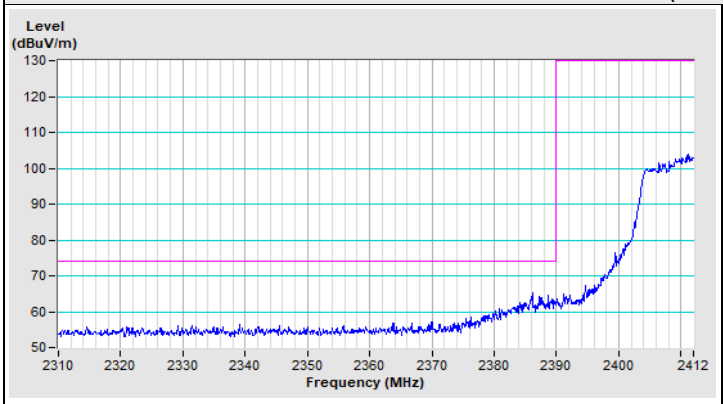
Vertical (Peak)



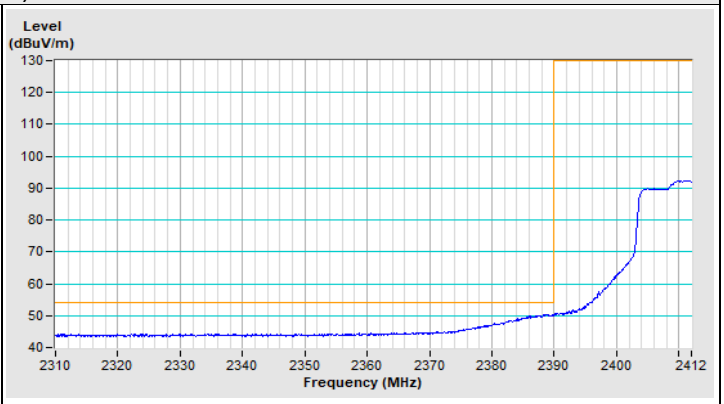
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

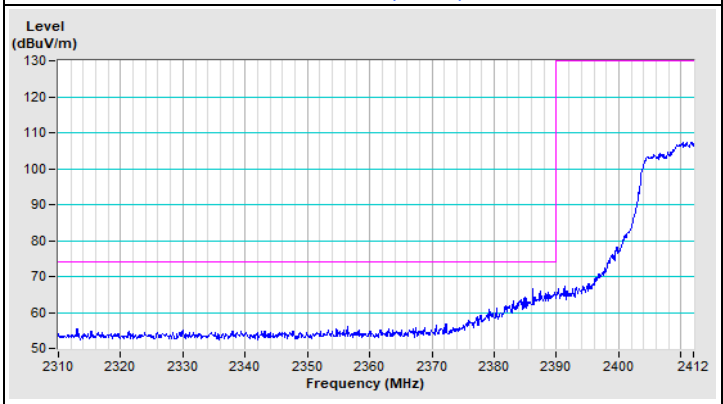
802.11n (HT40) Channel 3



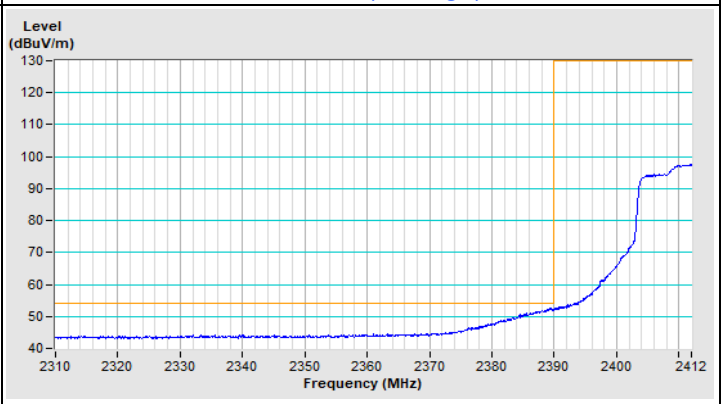
Horizontal (Peak)



Horizontal (Average)



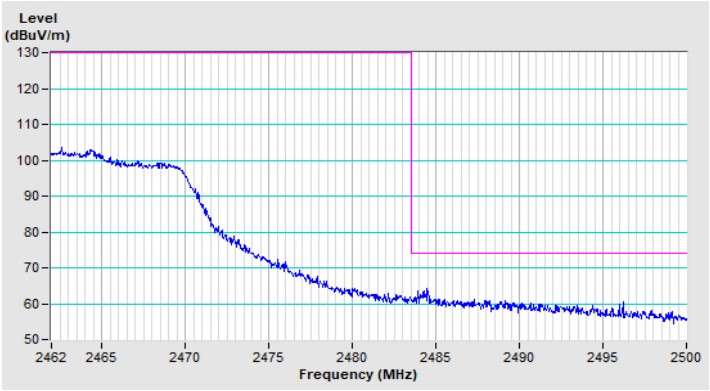
Vertical (Peak)



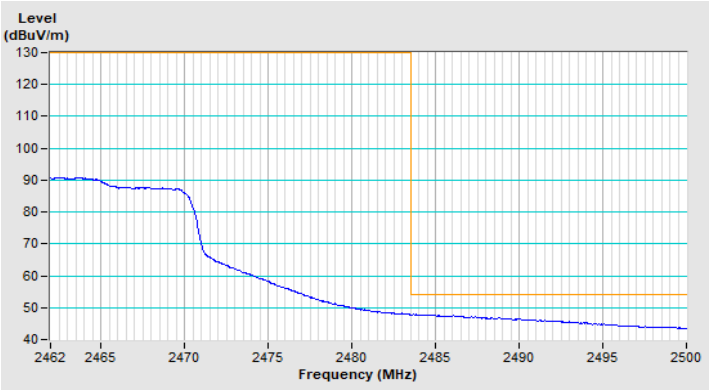
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

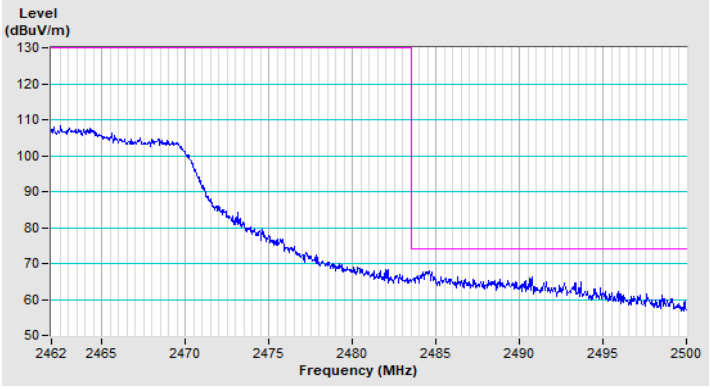
802.11n (HT40) Channel 9



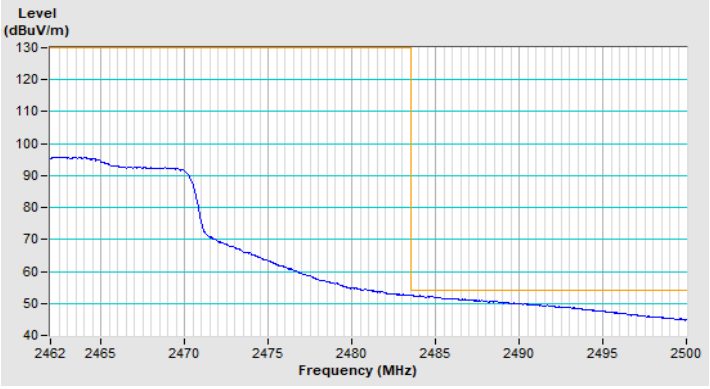
Horizontal (Peak)



Horizontal (Average)

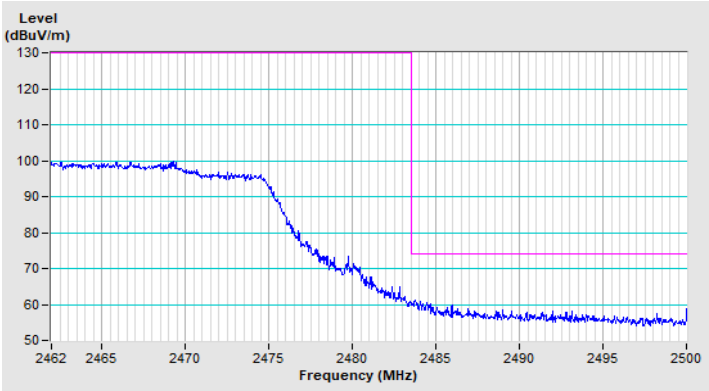


Vertical (Peak)

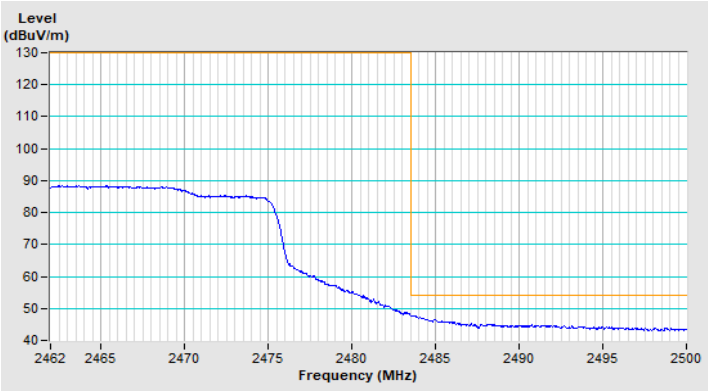


Vertical (Average)

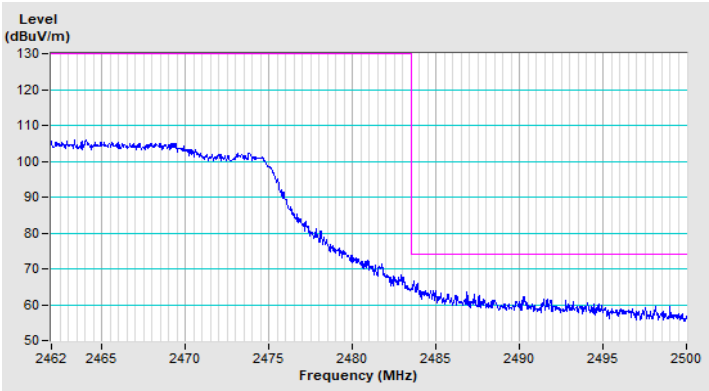
802.11n (HT40) Channel 10



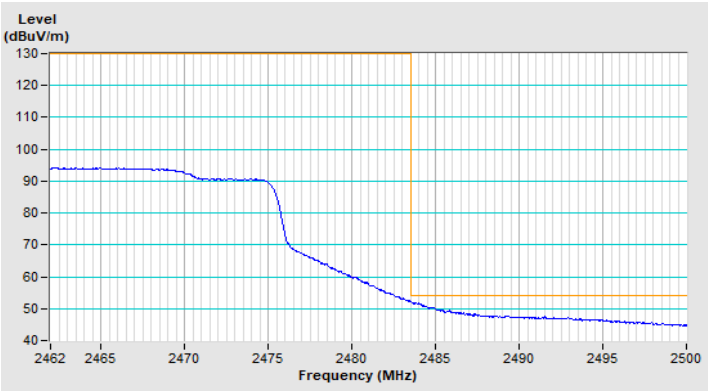
Horizontal (Peak)



Horizontal (Average)

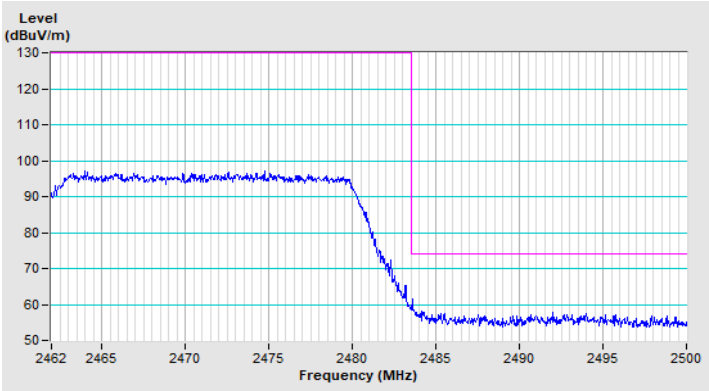


Vertical (Peak)

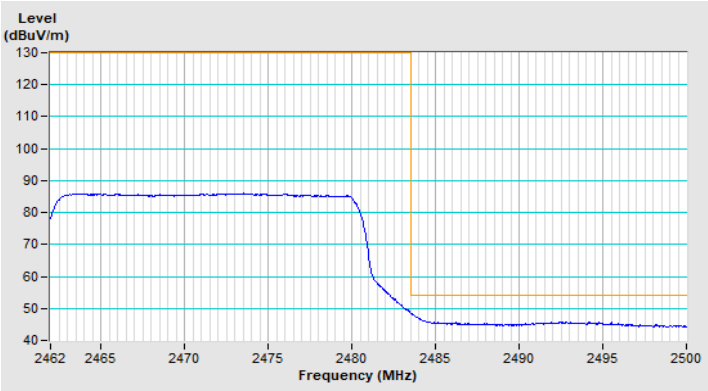


Vertical (Average)

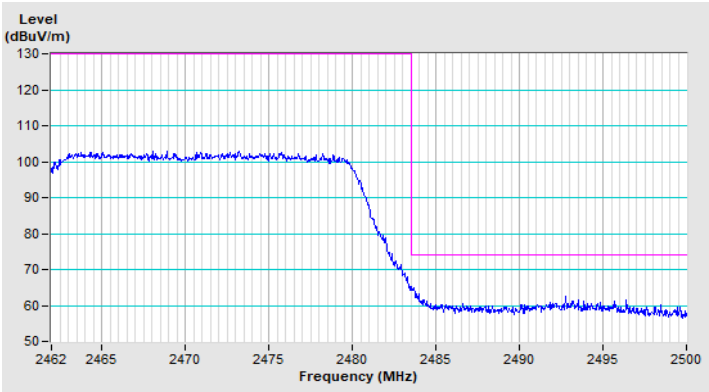
802.11n (HT40) Channel 11



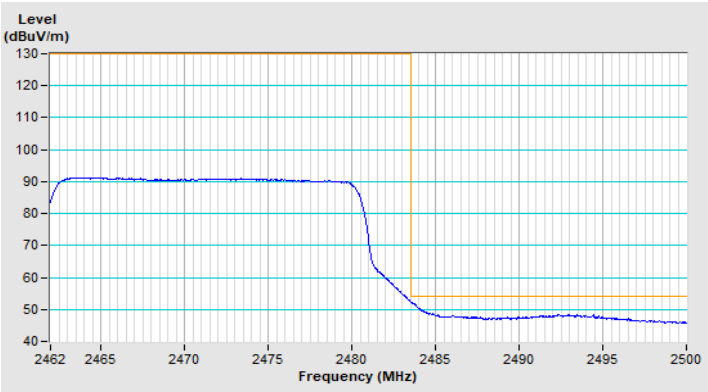
Horizontal (Peak)



Horizontal (Average)



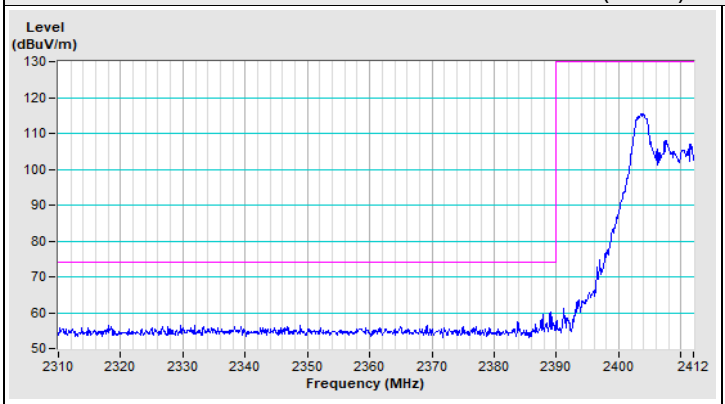
Vertical (Peak)



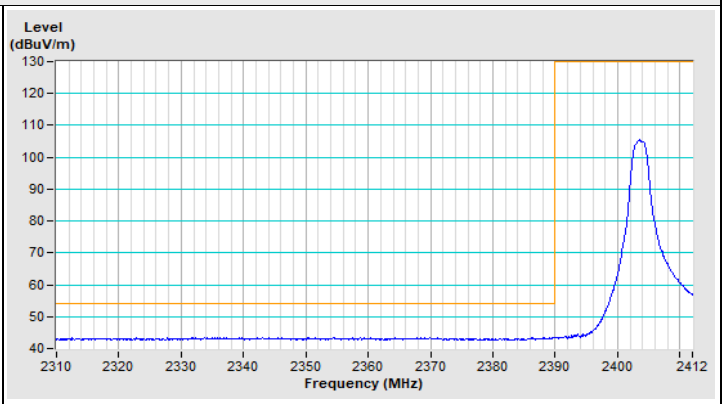
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

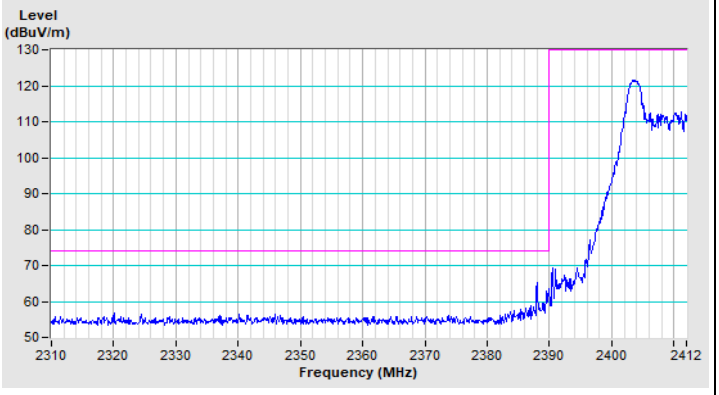
802.11ax (HE20) 26-tone RU Channel 1



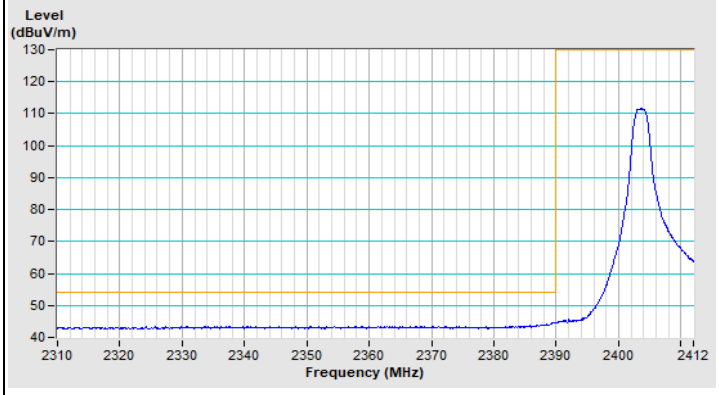
Horizontal (Peak)



Horizontal (Average)



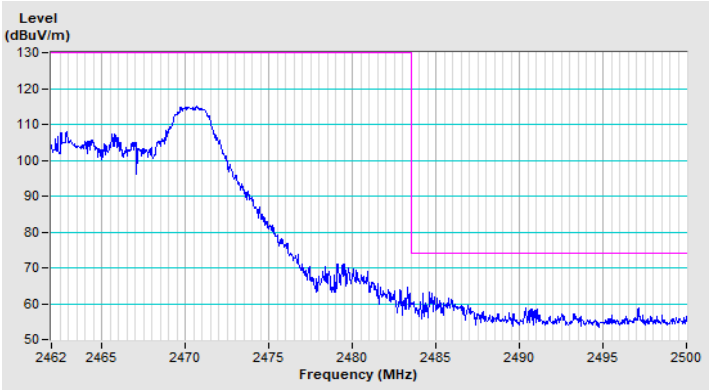
Vertical (Peak)



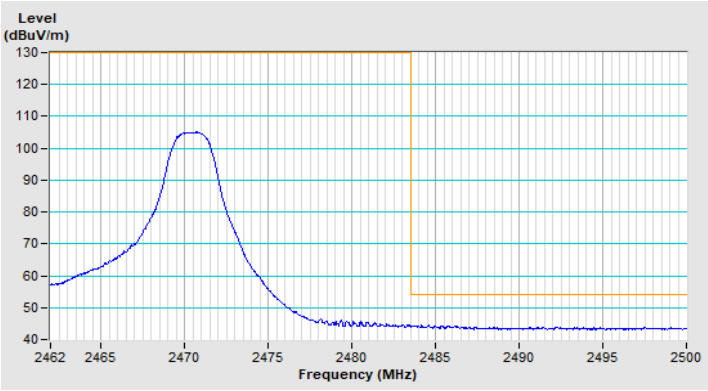
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

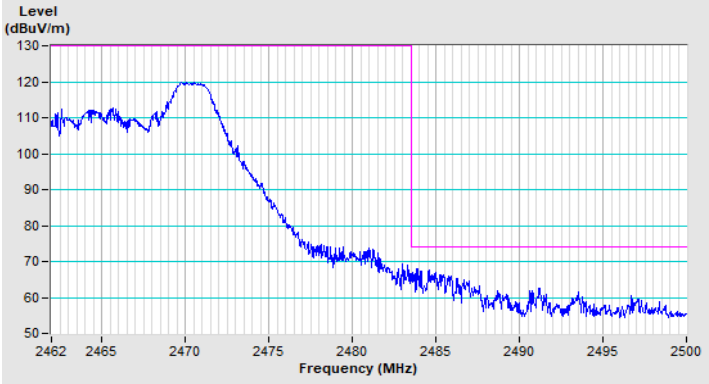
802.11ax (HE20) 26-tone RU Channel 11



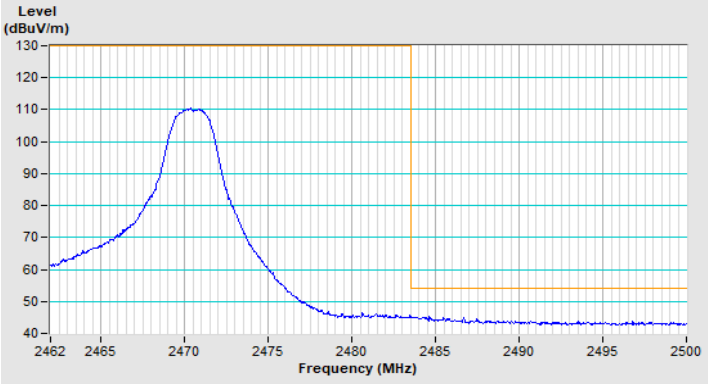
Horizontal (Peak)



Horizontal (Average)

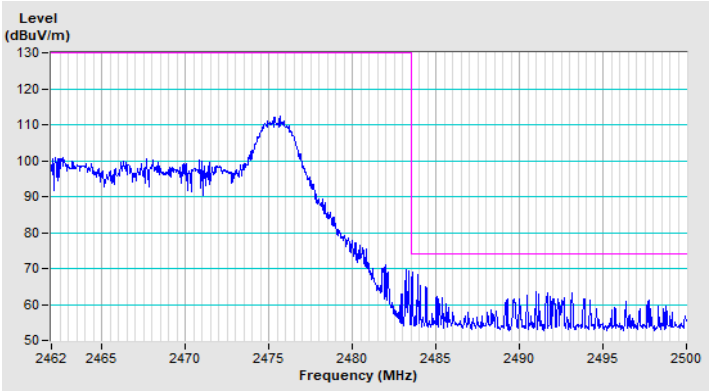


Vertical (Peak)

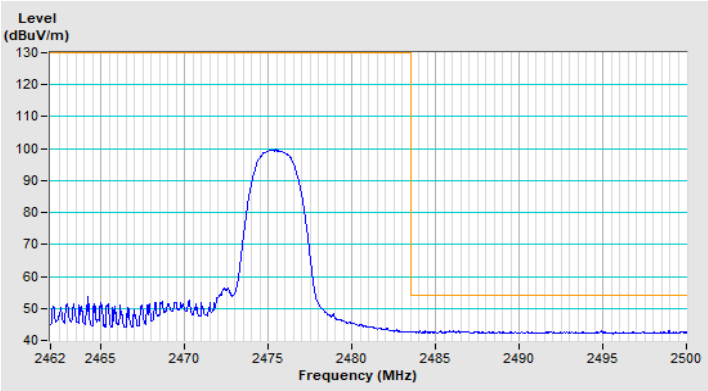


Vertical (Average)

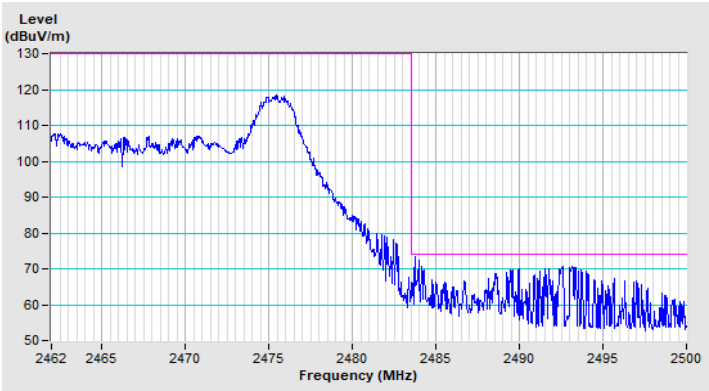
802.11ax (HE20) 26-tone RU Channel 12



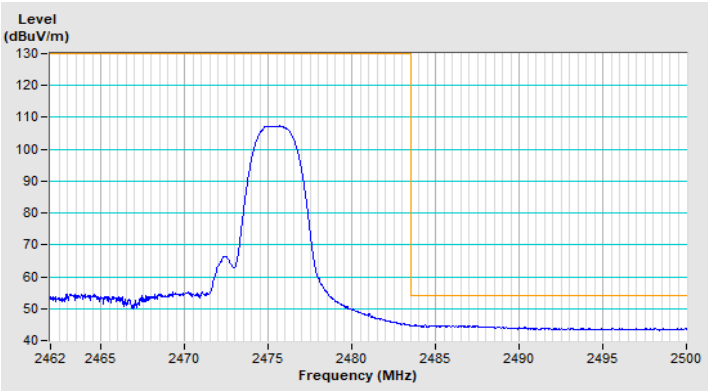
Horizontal (Peak)



Horizontal (Average)

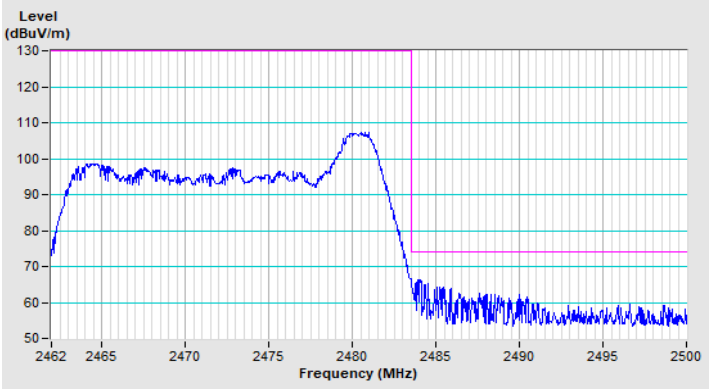


Vertical (Peak)

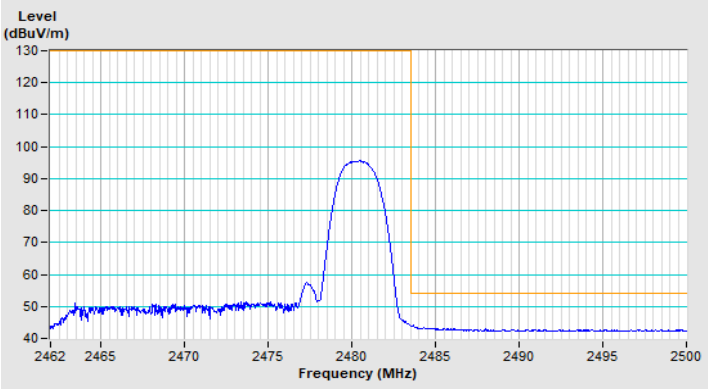


Vertical (Average)

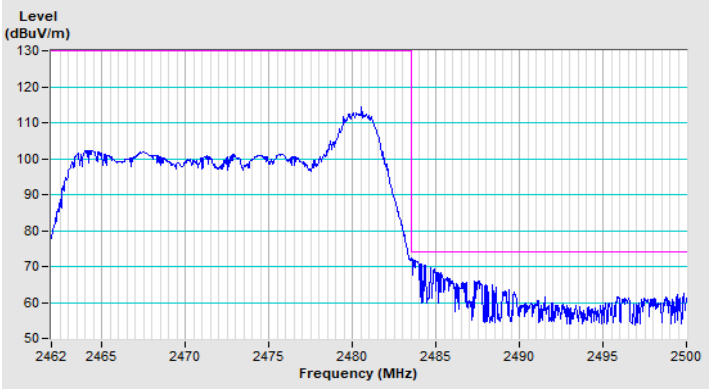
802.11ax (HE20) 26-tone RU Channel 13



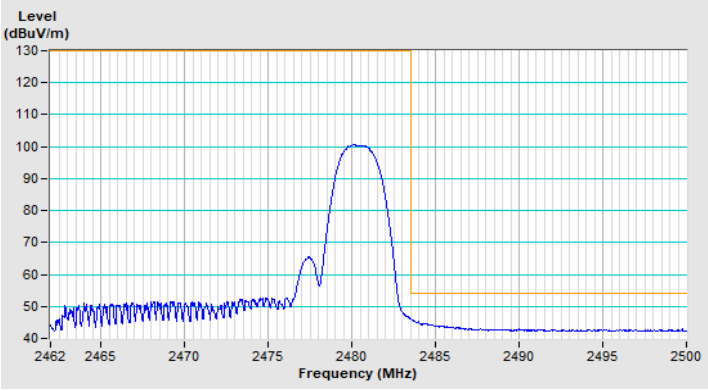
Horizontal (Peak)



Horizontal (Average)



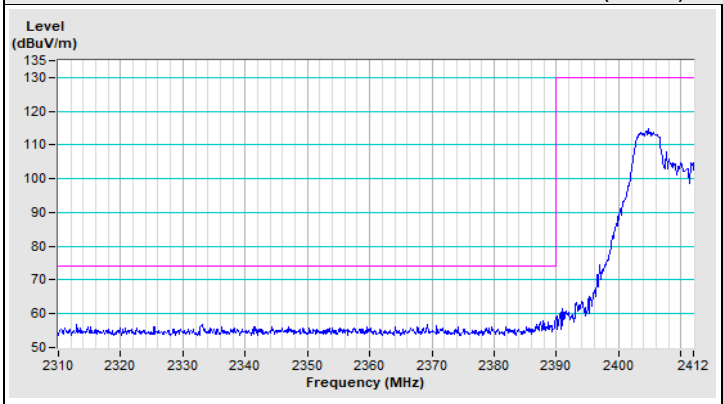
Vertical (Peak)



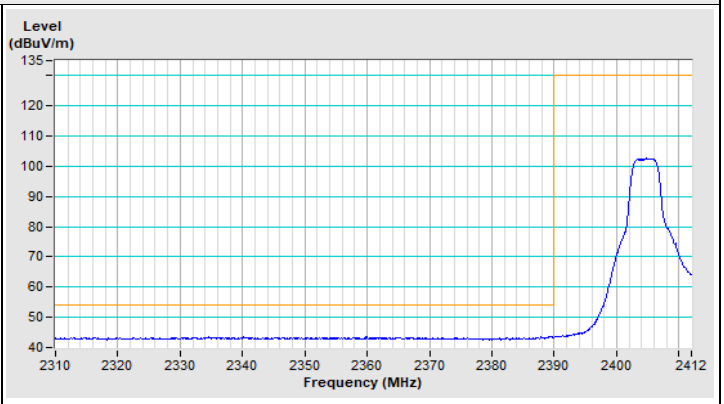
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

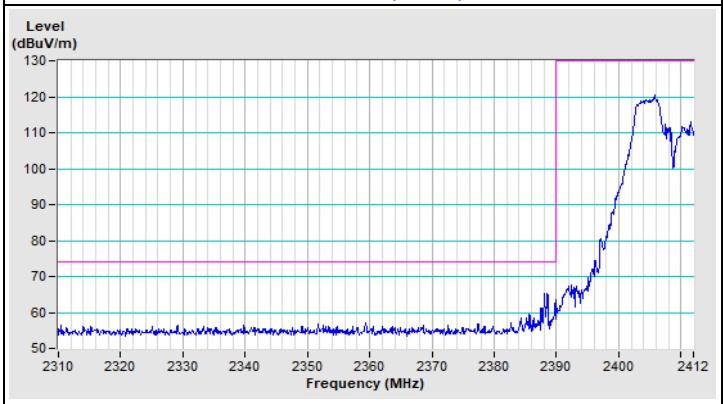
802.11ax (HE20) 52-tone RU Channel 1



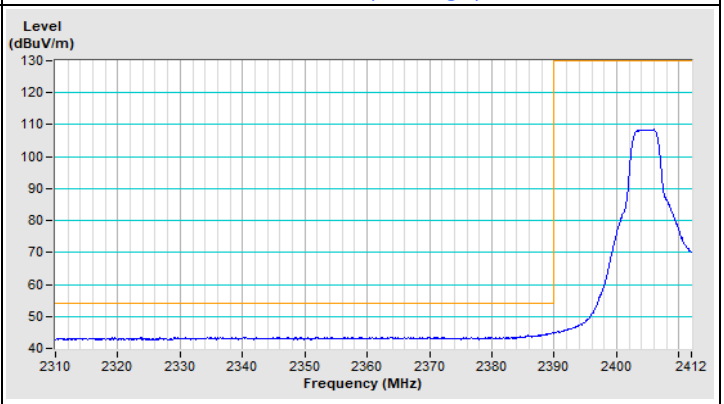
Horizontal (Peak)



Horizontal (Average)



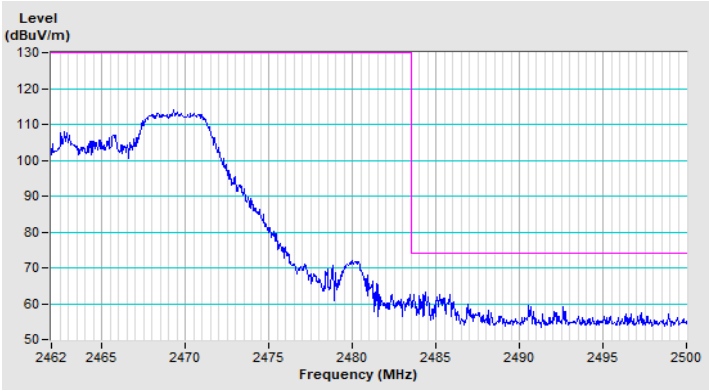
Vertical (Peak)



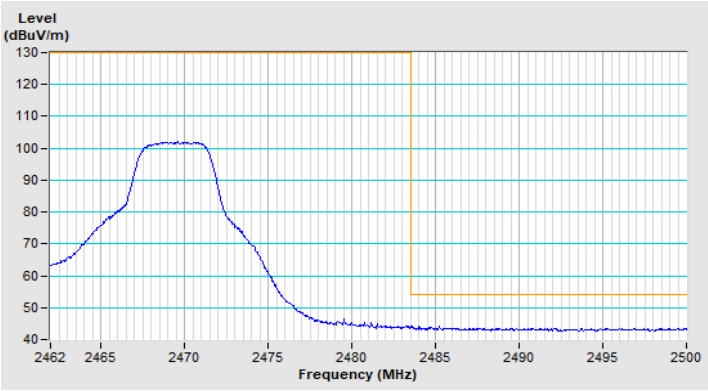
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

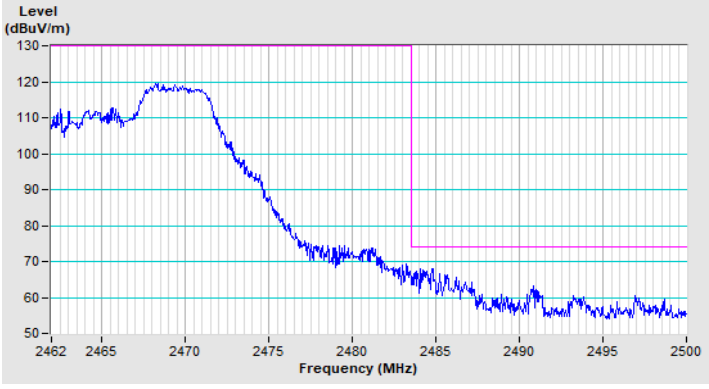
802.11ax (HE20) 52-tone RU Channel 11



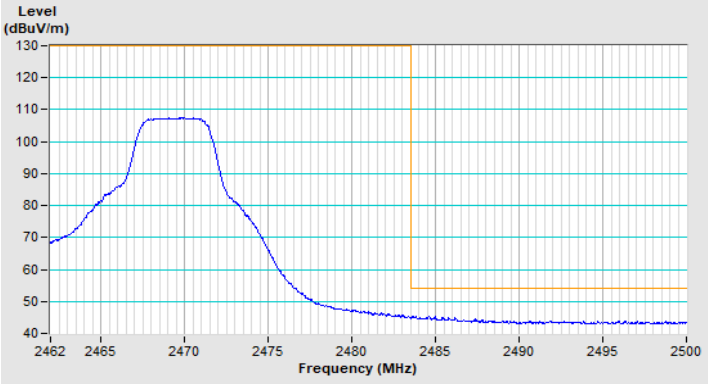
Horizontal (Peak)



Horizontal (Average)

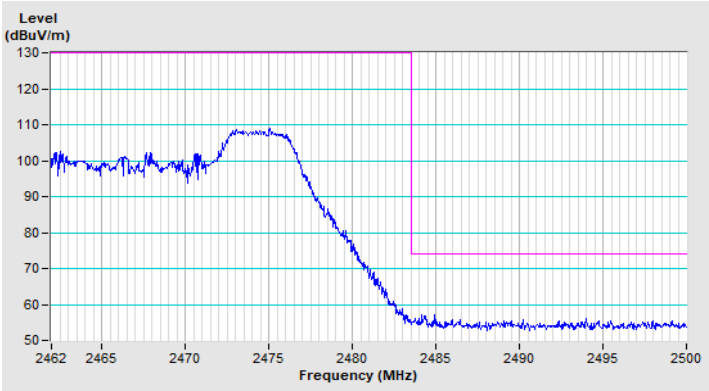


Vertical (Peak)

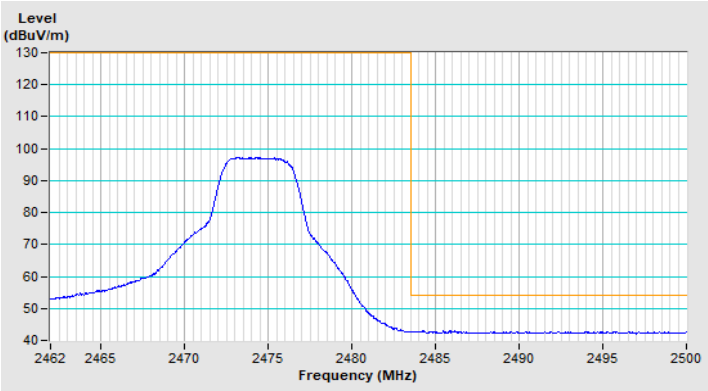


Vertical (Average)

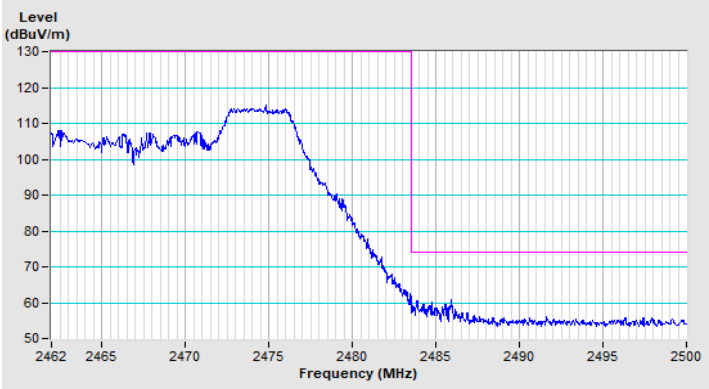
802.11ax (HE20) 52-tone RU Channel 12



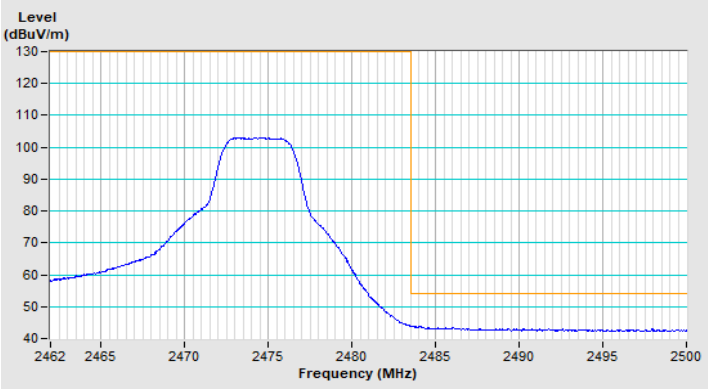
Horizontal (Peak)



Horizontal (Average)

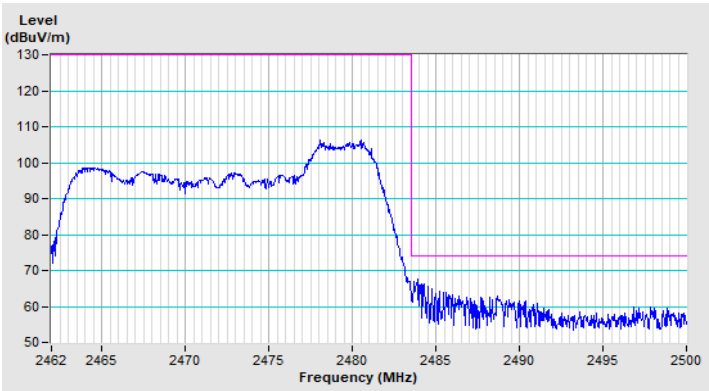


Vertical (Peak)

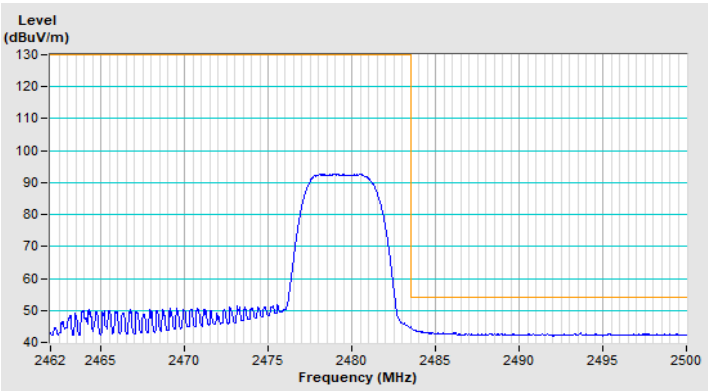


Vertical (Average)

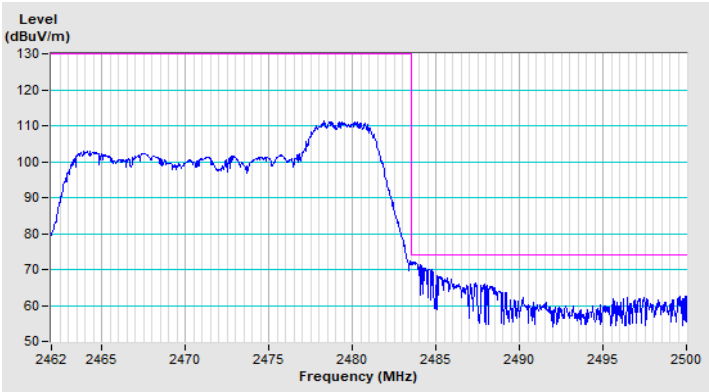
802.11ax (HE20) 52-tone RU Channel 13



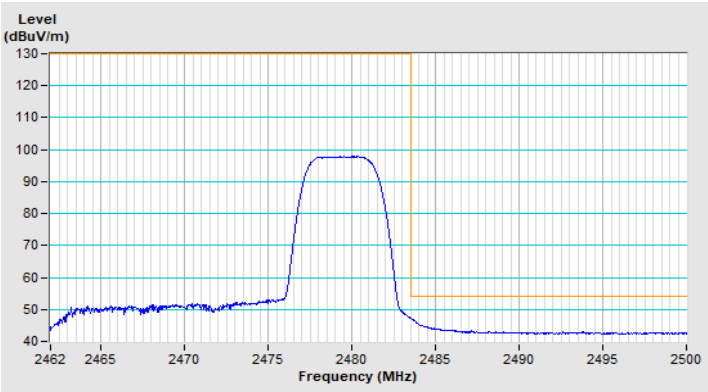
Horizontal (Peak)



Horizontal (Average)



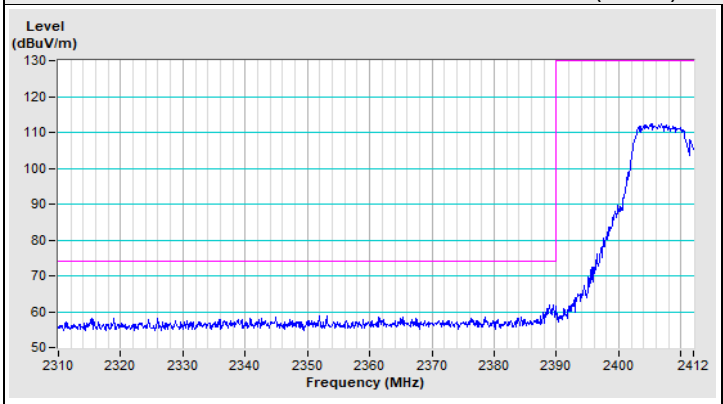
Vertical (Peak)



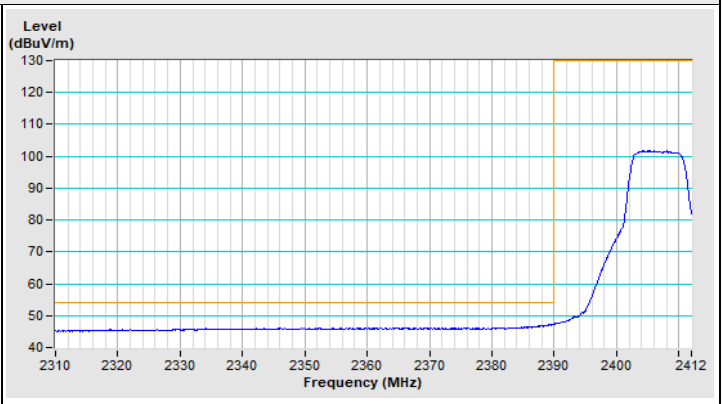
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

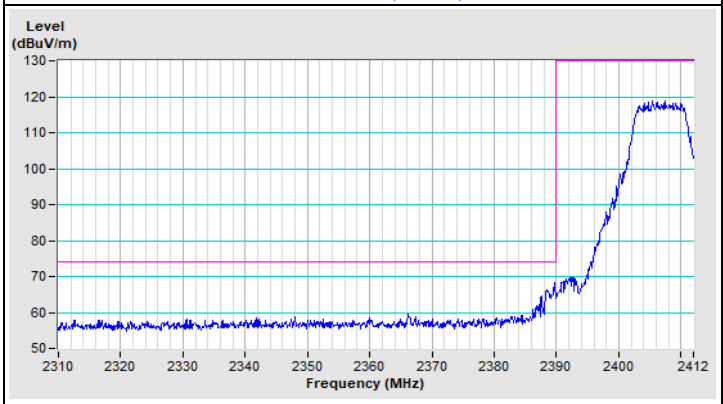
802.11ax (HE20) 106-tone RU Channel 1



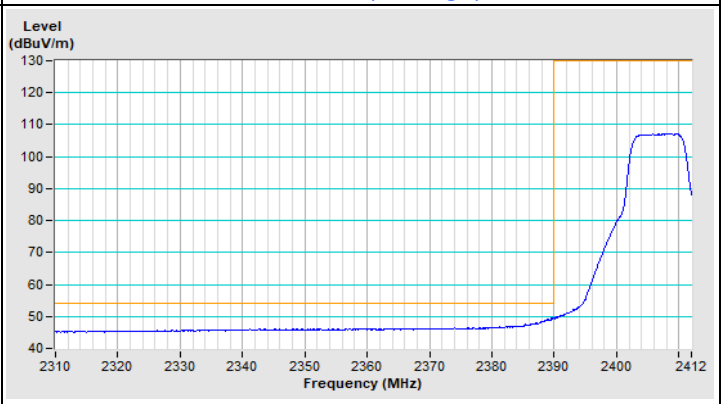
Horizontal (Peak)



Horizontal (Average)



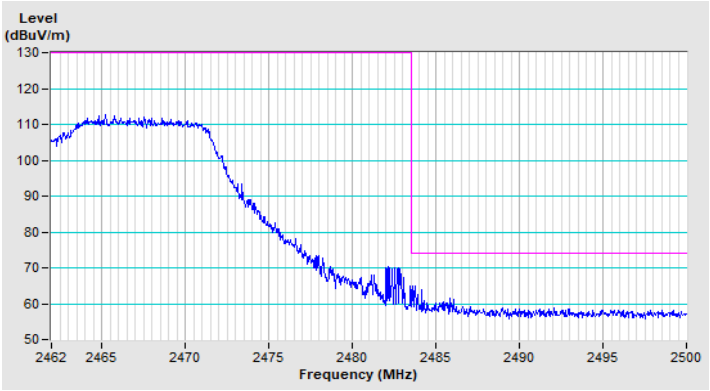
Vertical (Peak)



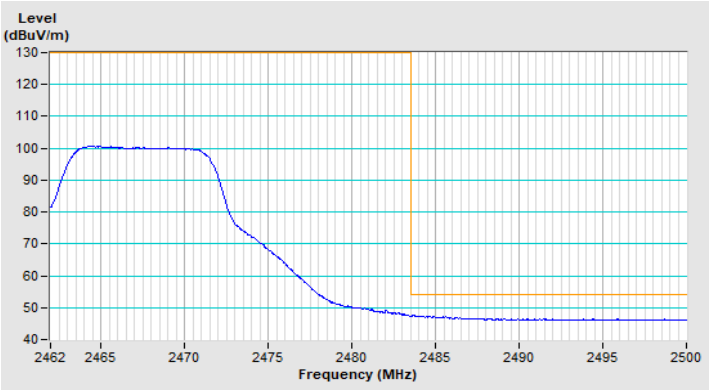
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

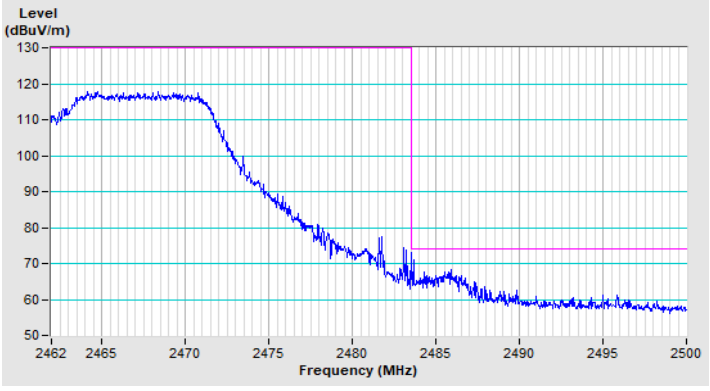
802.11ax (HE20) 106-tone RU Channel 11



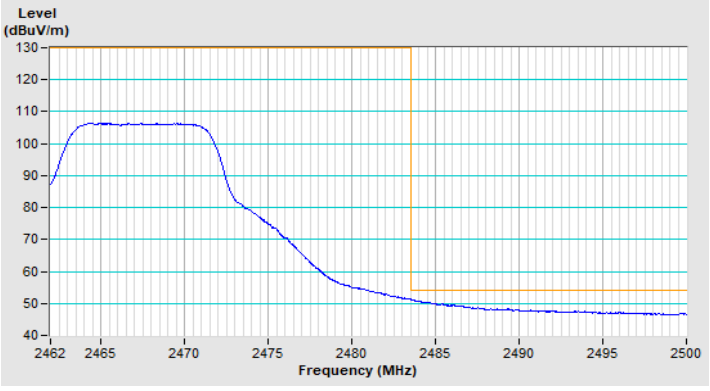
Horizontal (Peak)



Horizontal (Average)

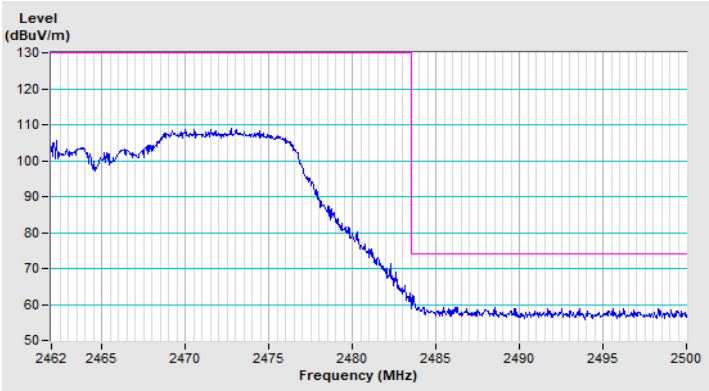


Vertical (Peak)

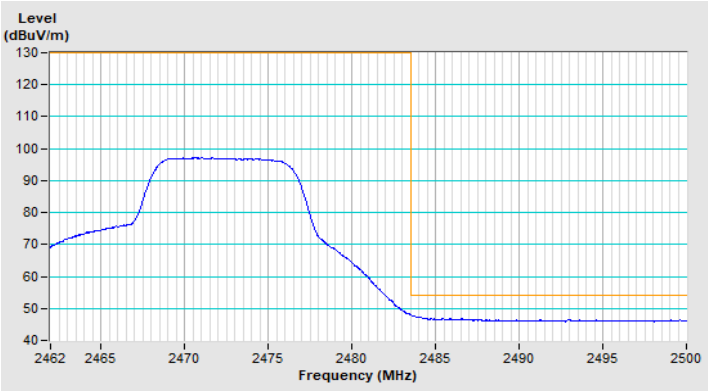


Vertical (Average)

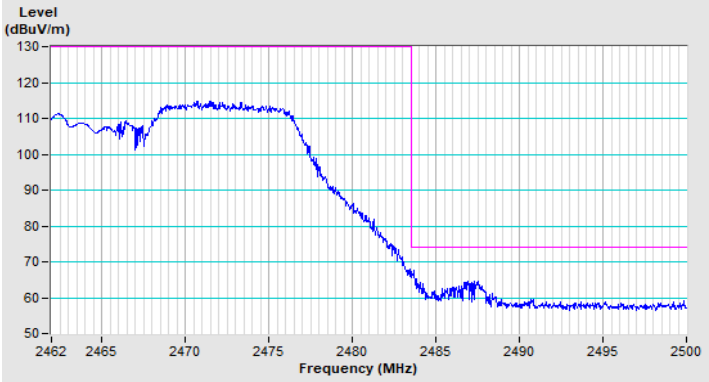
802.11ax (HE20) 106-tone RU Channel 12



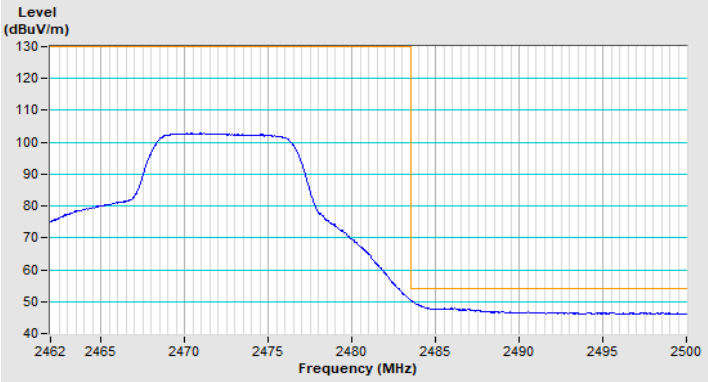
Horizontal (Peak)



Horizontal (Average)

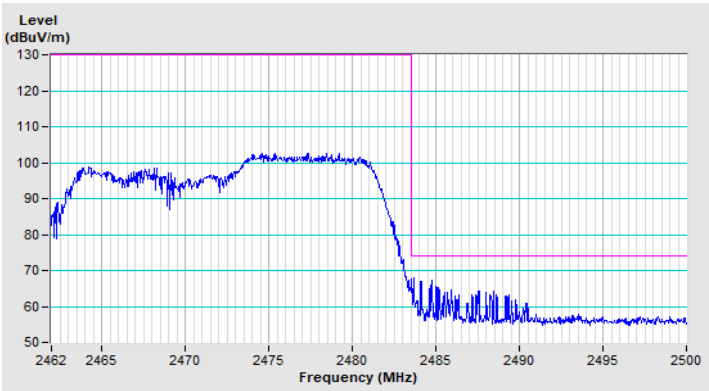


Vertical (Peak)

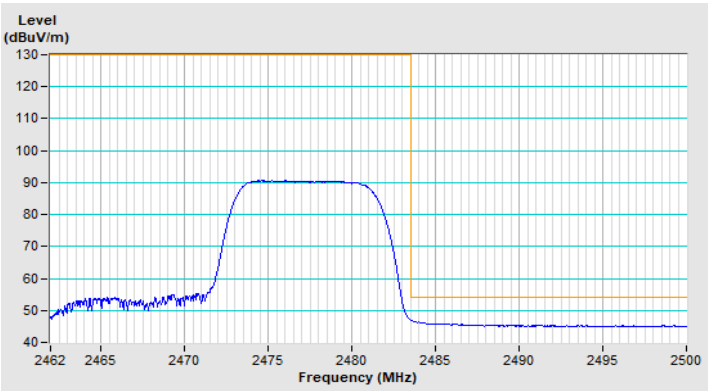


Vertical (Average)

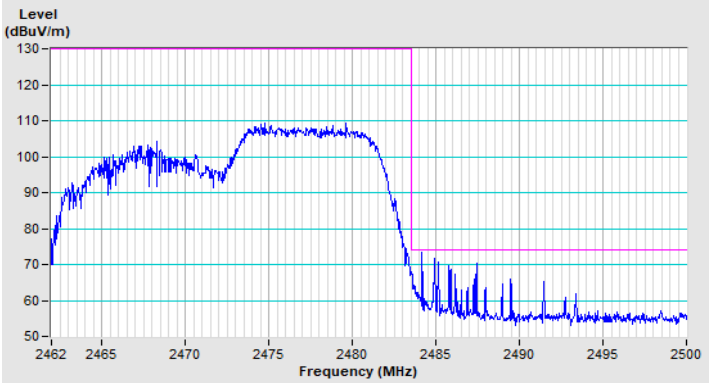
802.11ax (HE20) 106-tone RU Channel 13



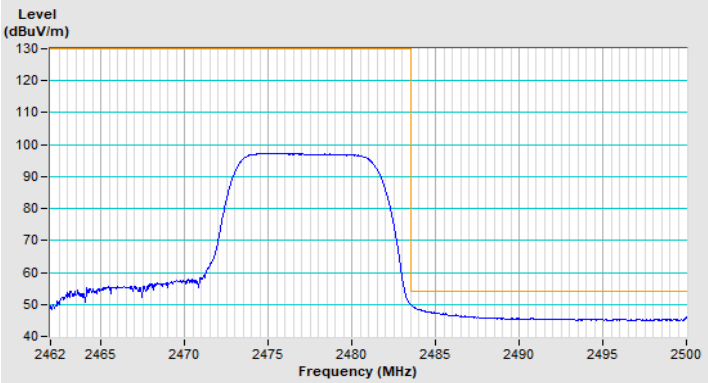
Horizontal (Peak)



Horizontal (Average)



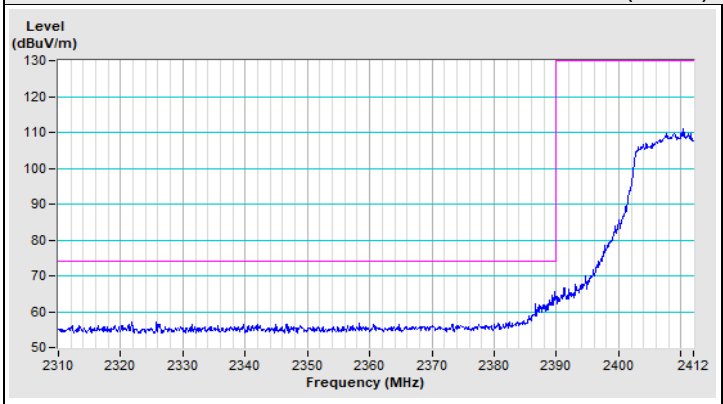
Vertical (Peak)



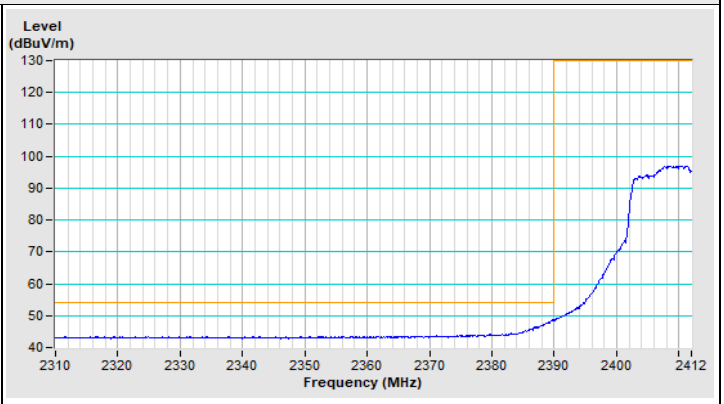
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

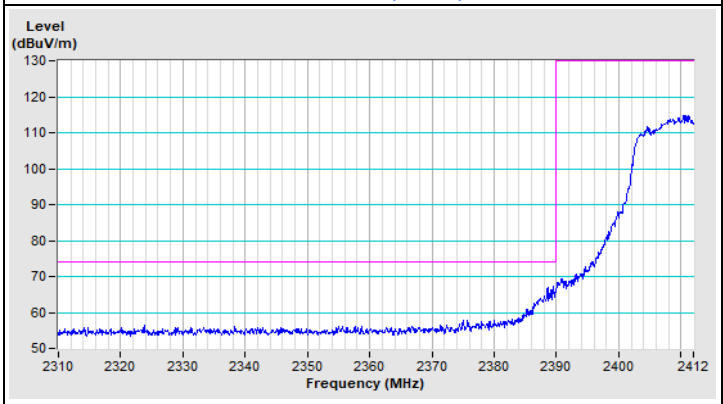
802.11ax (HE20) Full RU Channel 1



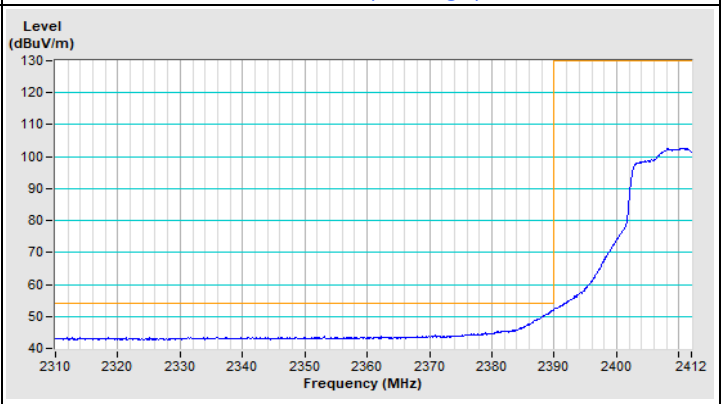
Horizontal (Peak)



Horizontal (Average)



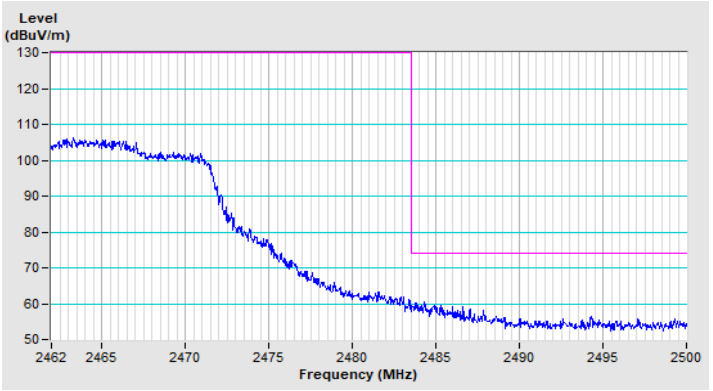
Vertical (Peak)



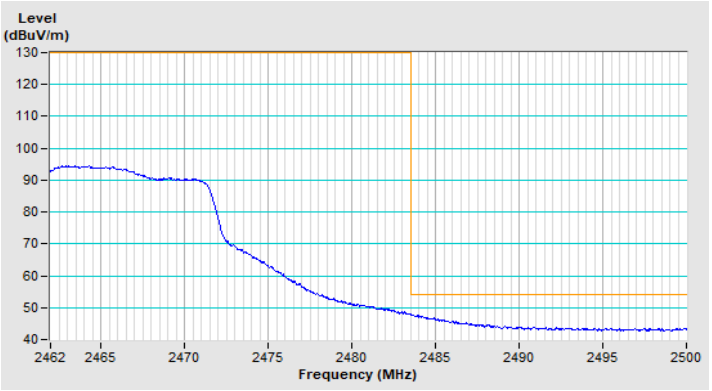
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

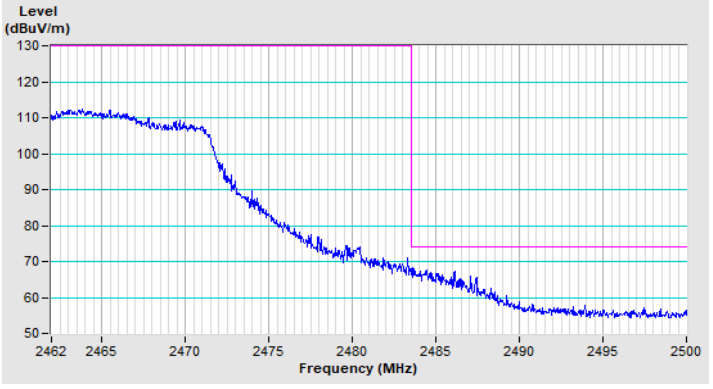
802.11ax (HE20) Full RU Channel 11



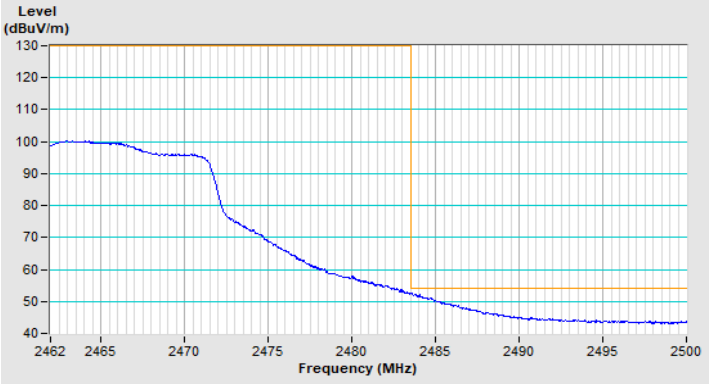
Horizontal (Peak)



Horizontal (Average)

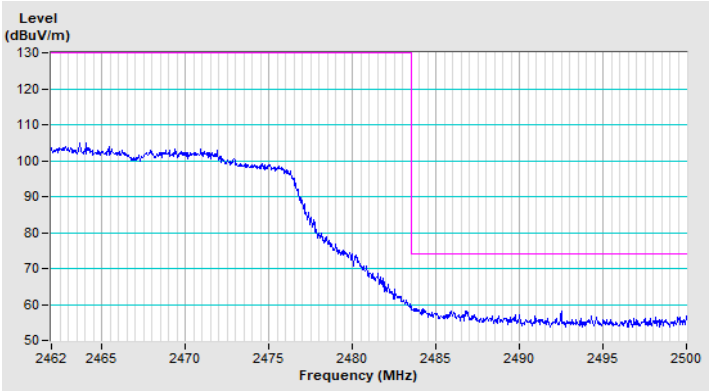


Vertical (Peak)

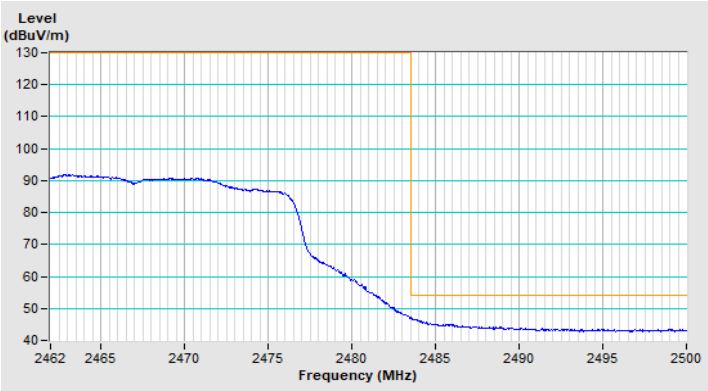


Vertical (Average)

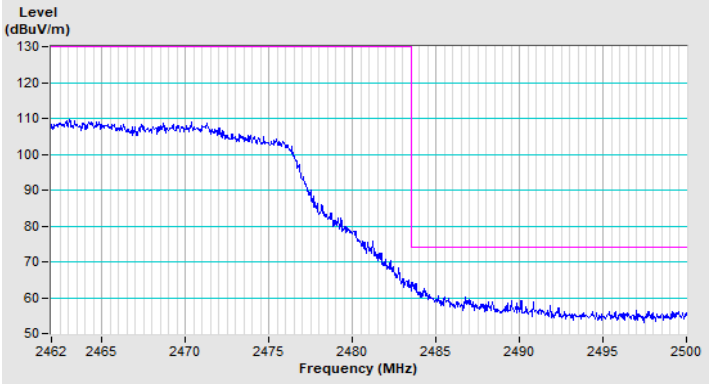
802.11ax (HE20) Full RU Channel 12



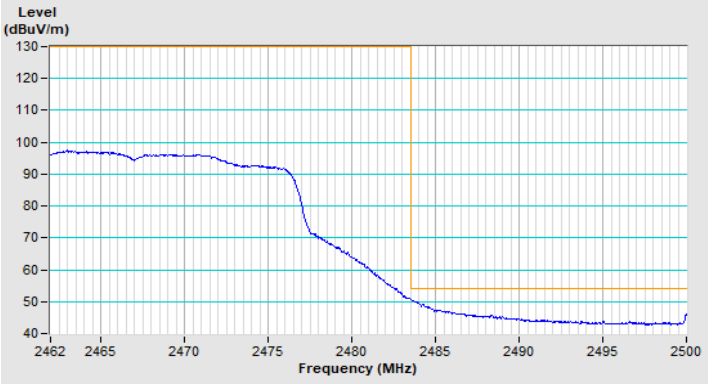
Horizontal (Peak)



Horizontal (Average)

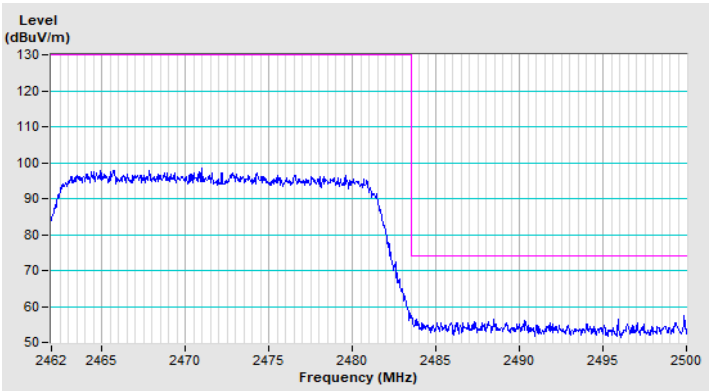


Vertical (Peak)

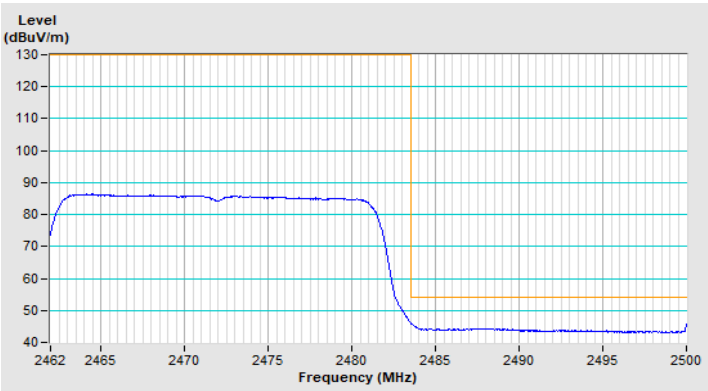


Vertical (Average)

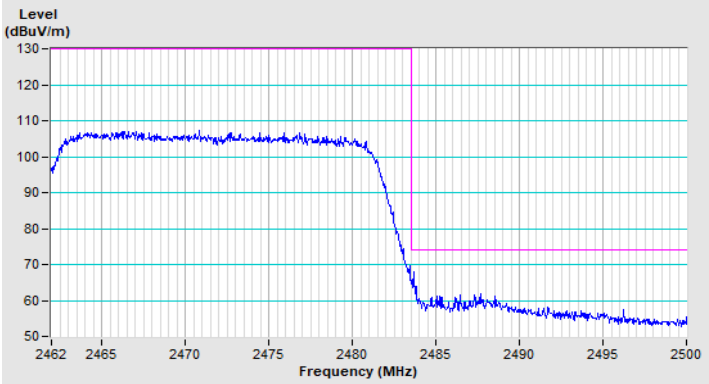
802.11ax (HE20) Full RU Channel 13



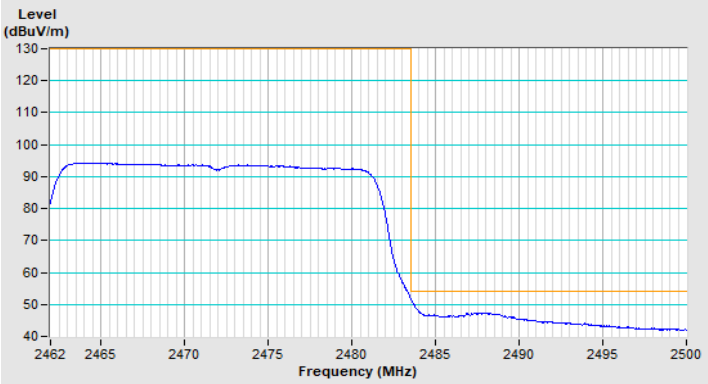
Horizontal (Peak)



Horizontal (Average)



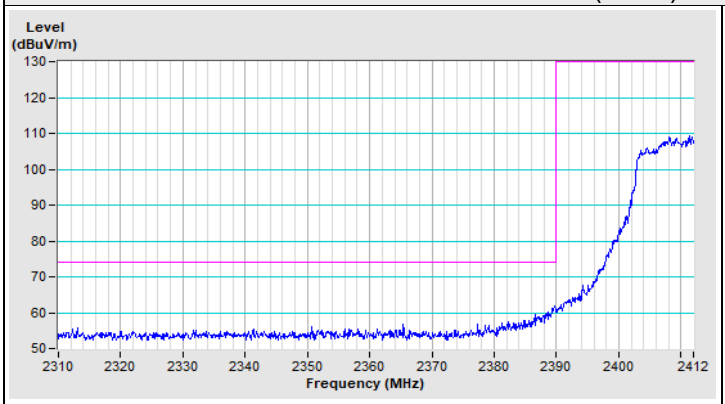
Vertical (Peak)



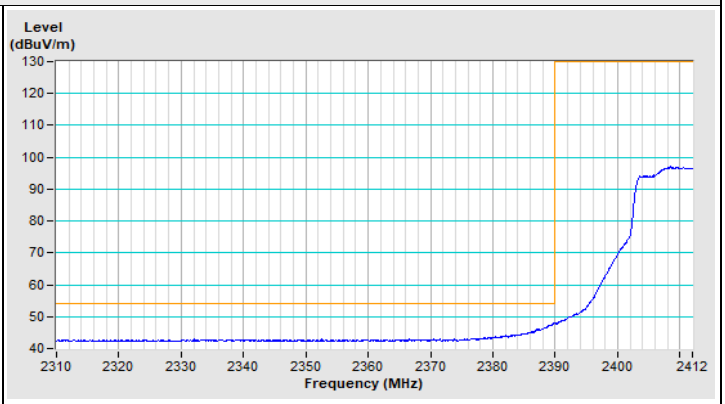
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

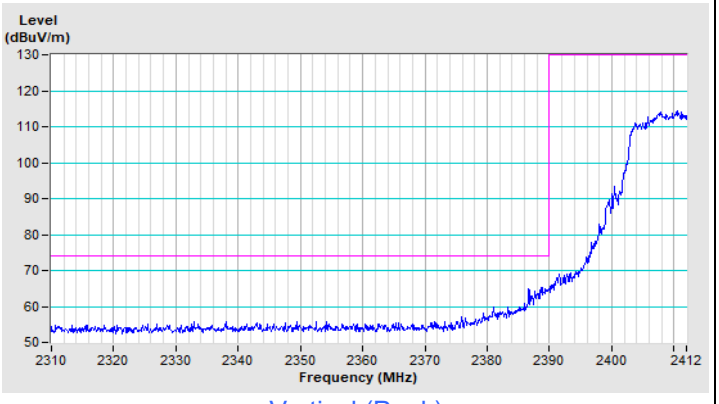
802.11ax (HE40) 242-tone RU Channel 3



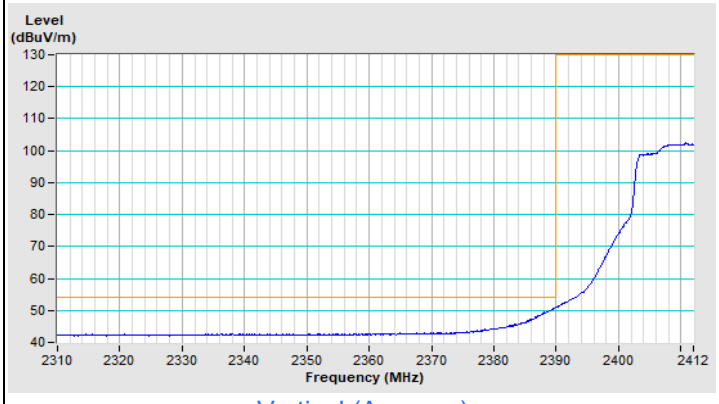
Horizontal (Peak)



Horizontal (Average)



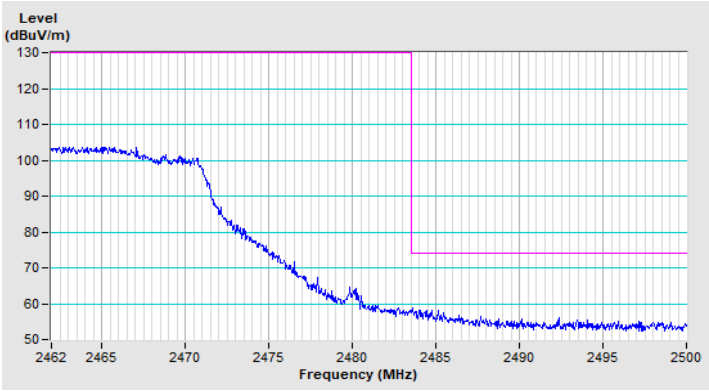
Vertical (Peak)



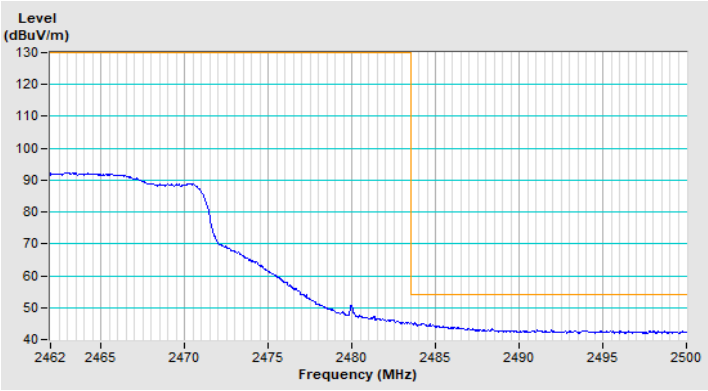
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

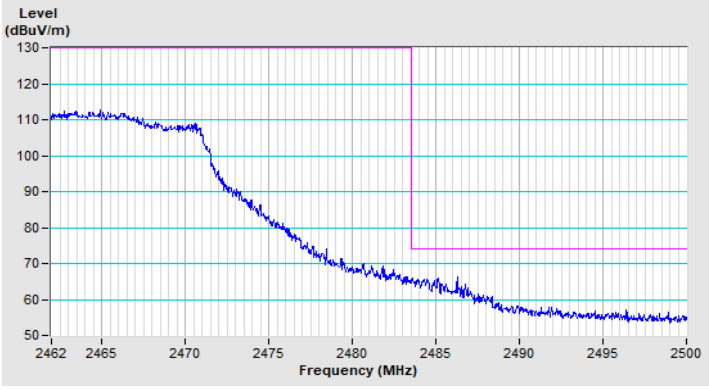
802.11ax (HE40) 242-tone RU Channel 9



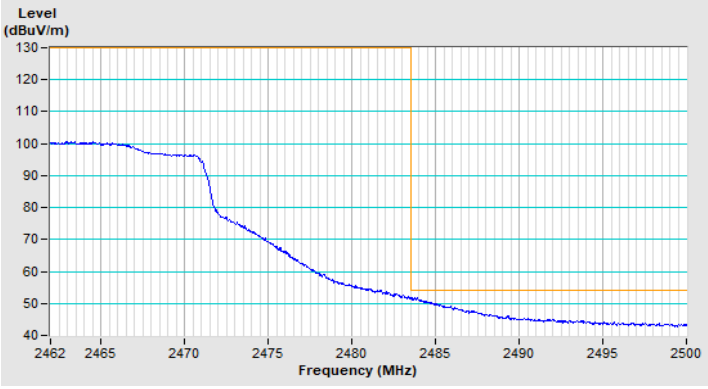
Horizontal (Peak)



Horizontal (Average)

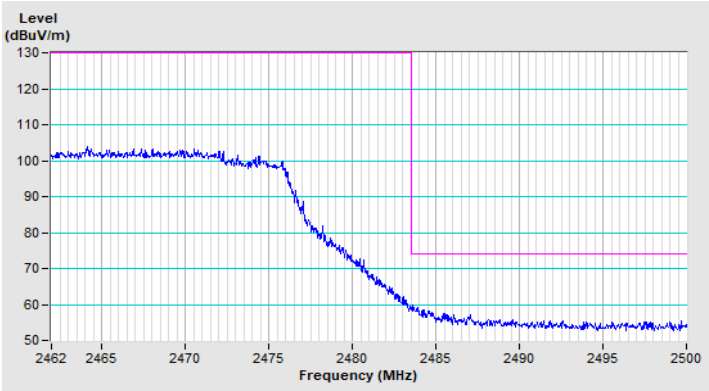


Vertical (Peak)

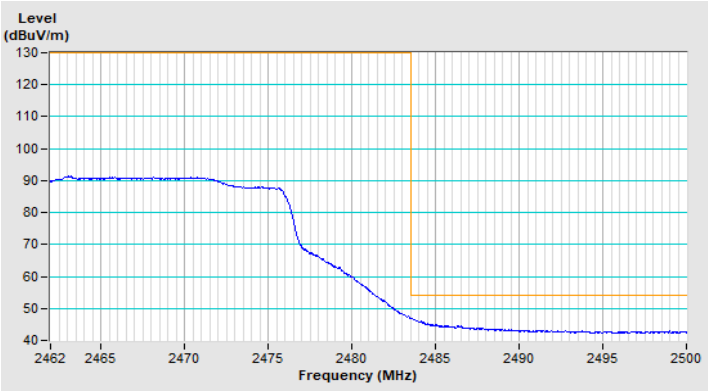


Vertical (Average)

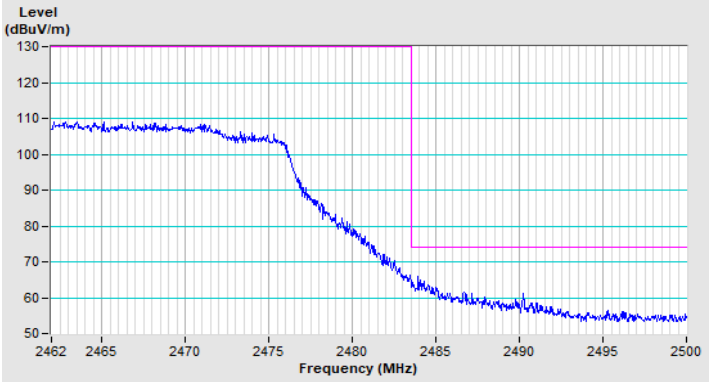
802.11ax (HE40) 242-tone RU Channel 10



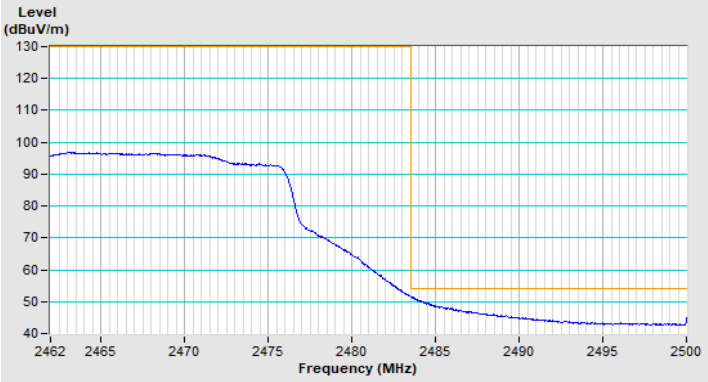
Horizontal (Peak)



Horizontal (Average)

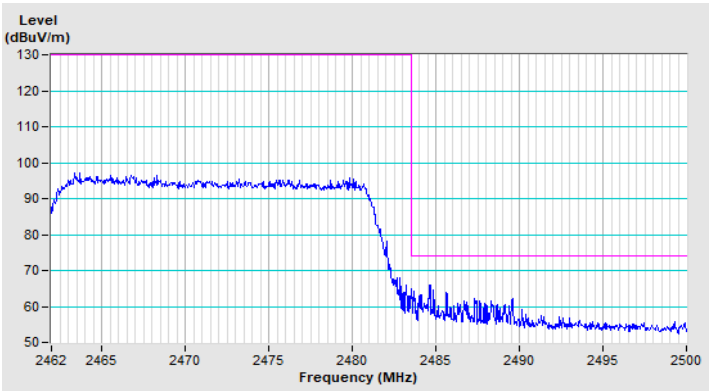


Vertical (Peak)

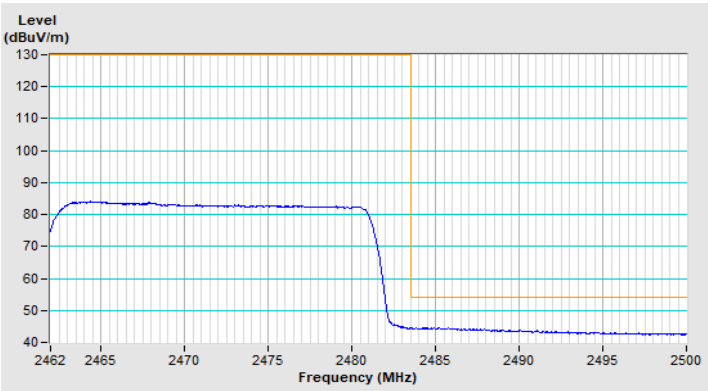


Vertical (Average)

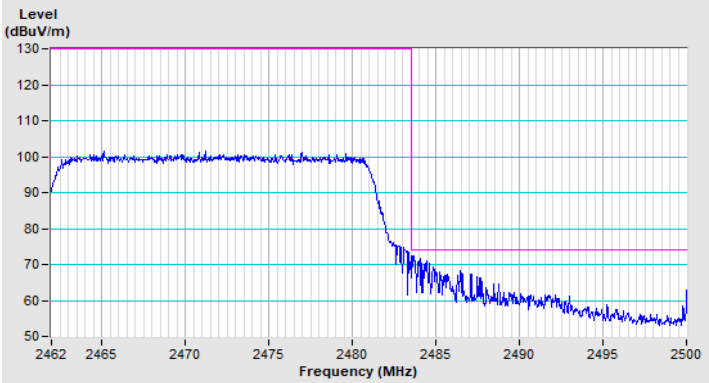
802.11ax (HE40) 242-tone RU Channel 11



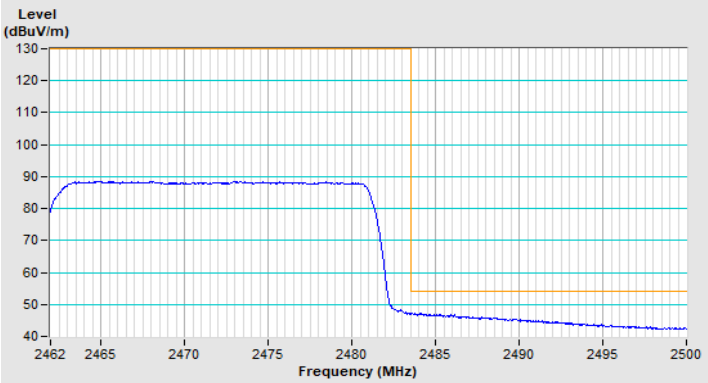
Horizontal (Peak)



Horizontal (Average)



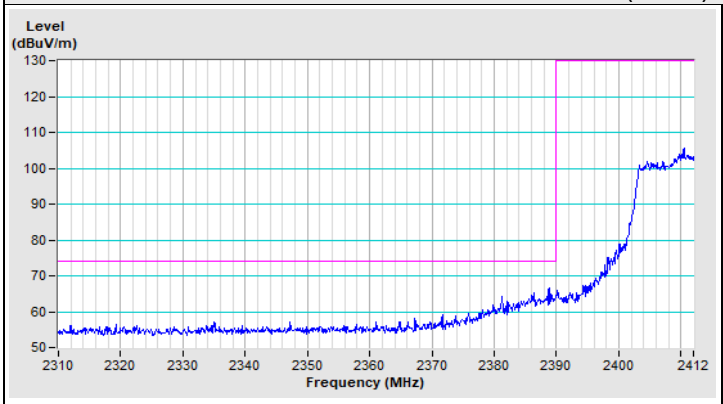
Vertical (Peak)



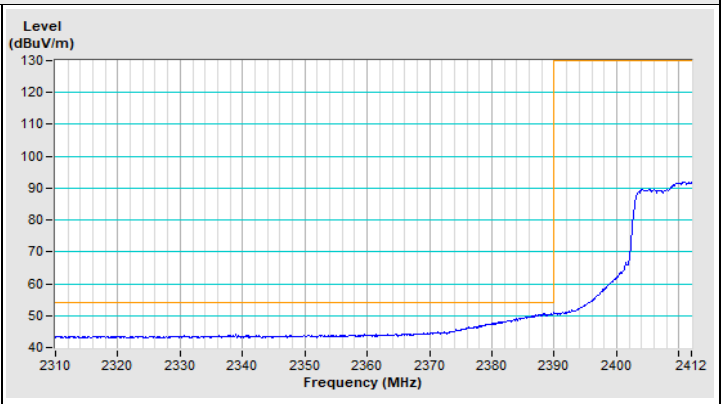
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.412 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

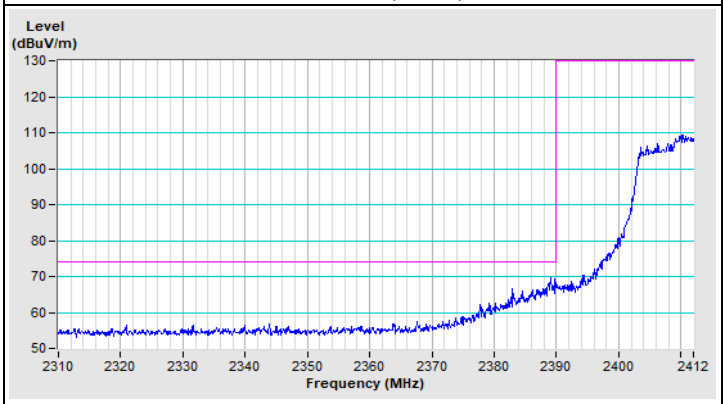
802.11ax (HE40) Full RU Channel 3



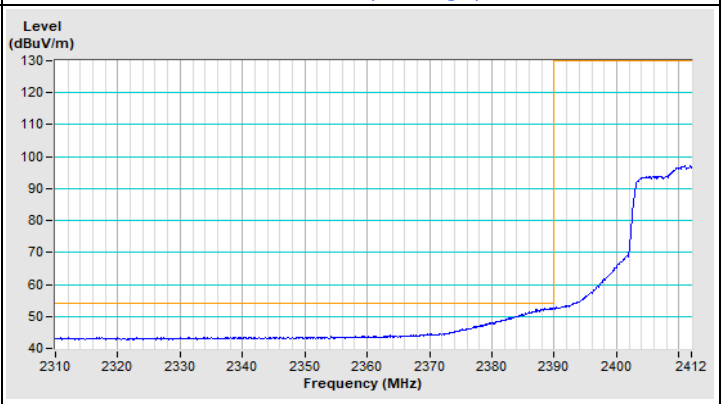
Horizontal (Peak)



Horizontal (Average)



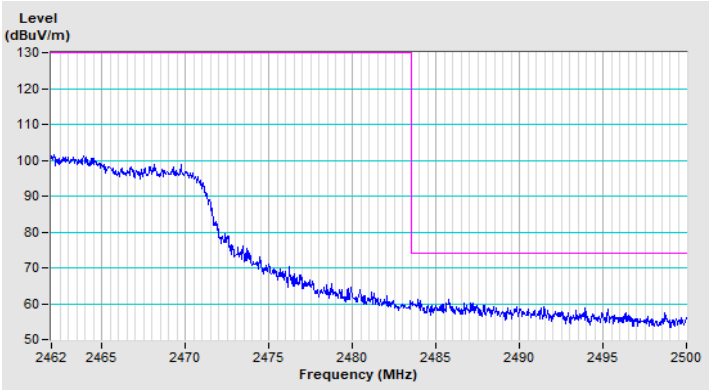
Vertical (Peak)



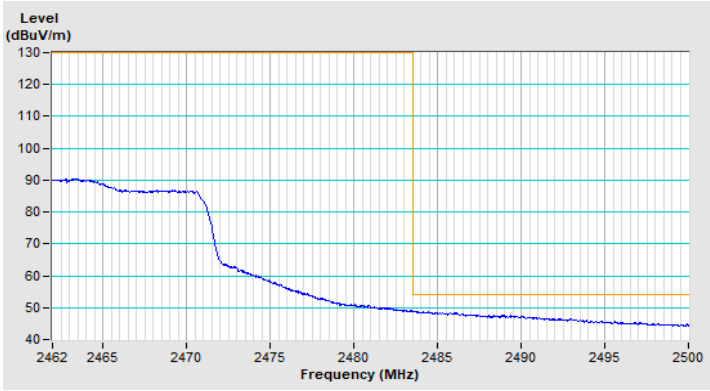
Vertical (Average)

Frequency Range	2.462 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak

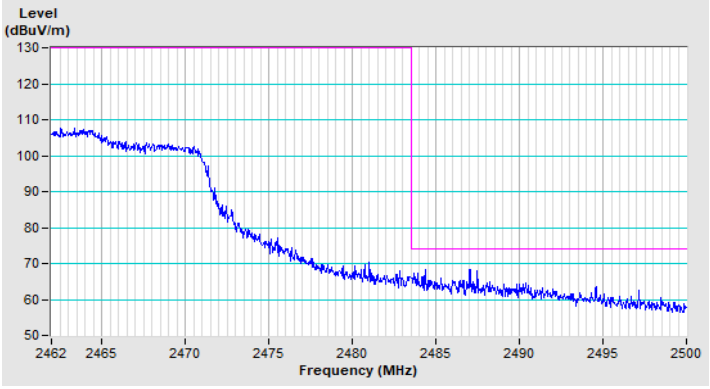
802.11ax (HE40) Full RU Channel 9



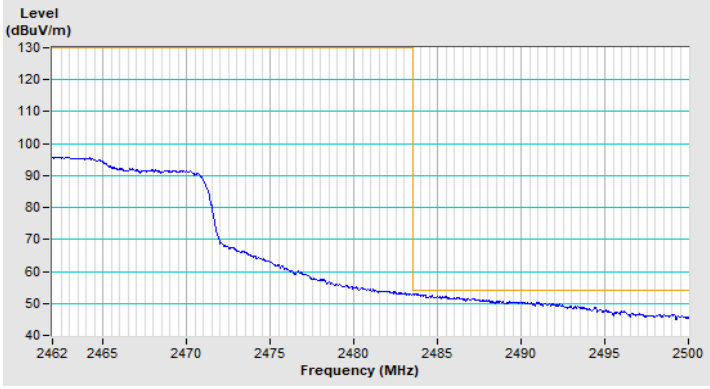
Horizontal (Peak)



Horizontal (Average)

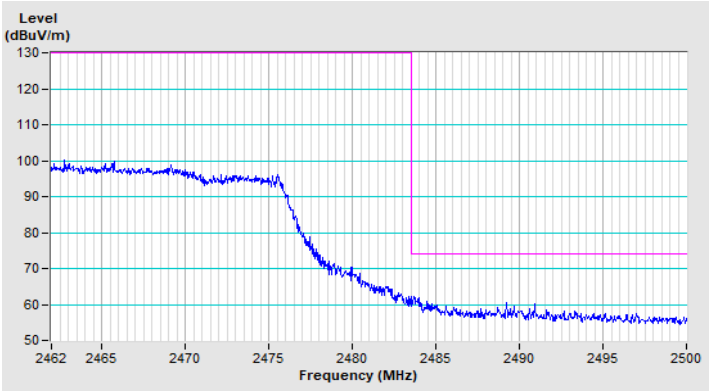


Vertical (Peak)

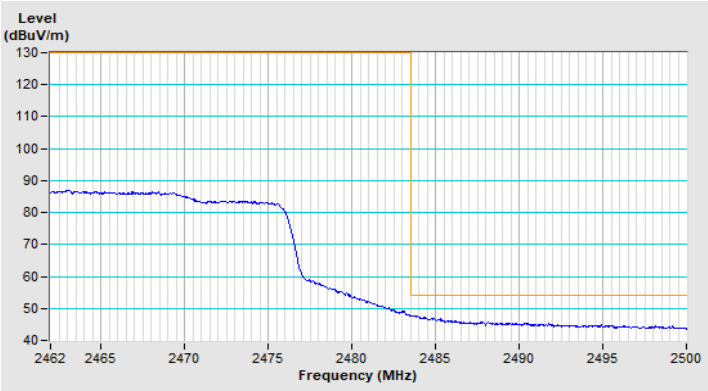


Vertical (Average)

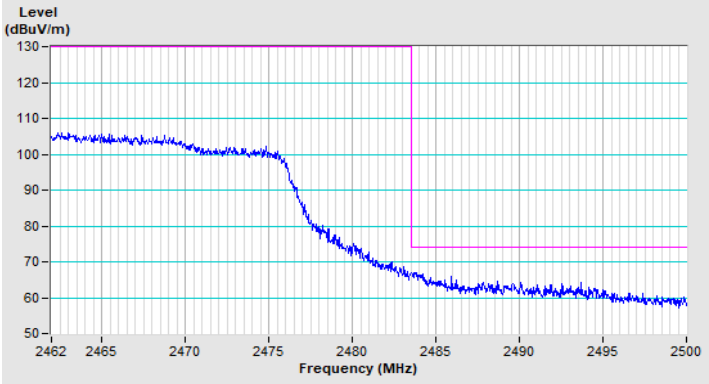
802.11ax (HE40) Full RU Channel 10



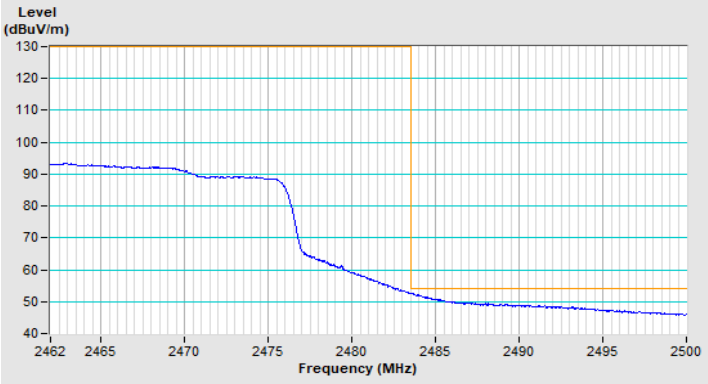
Horizontal (Peak)



Horizontal (Average)

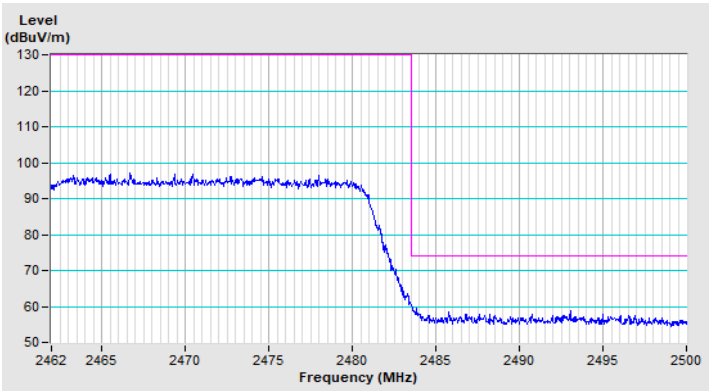


Vertical (Peak)

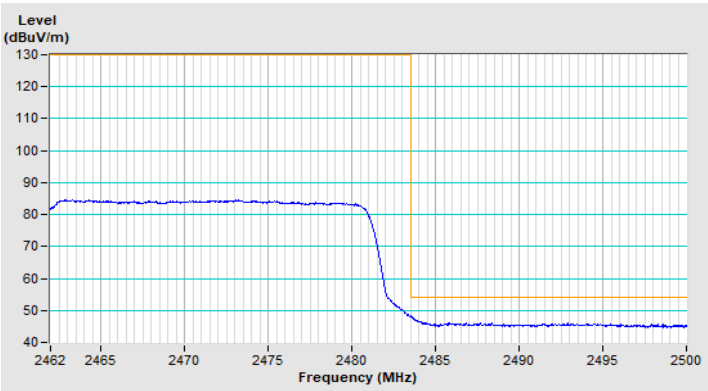


Vertical (Average)

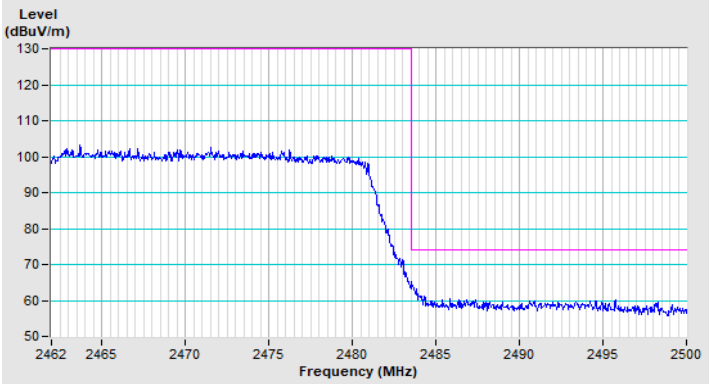
802.11ax (HE40) Full RU Channel 11



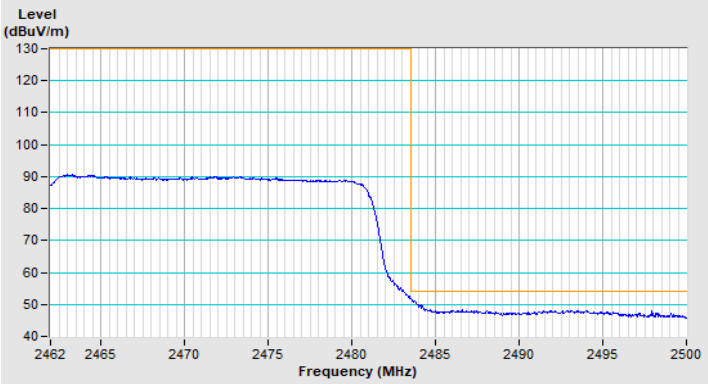
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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