

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBEIU-WTW-P25100525-2
FCC ID: MDZ-6856P6EC3M
Product: AMT6856C3M Wi-Fi Tri-band 2X2 11ax + Bluetooth 5.3 Combo Module
Brand: AmTRAN
Model No.: AMT6856C3M
Received Date: 2025/8/27
Test Date: 2025/12/11 ~ 2026/1/7
Issued Date: 2026/2/3
Applicant: Amtran Technology Co., Ltd.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
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Test Location: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / 198487 / TW2021
Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2026/2/3

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Prepared by : Jessica Cheng / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEIU-WTW-P25100525-2	Original release.	2026/2/3

1 Certificate

Product: AMT6856C3M Wi-Fi Tri-band 2X2 11ax + Bluetooth 5.3 Combo Module

Brand: AMTRAN

Test Model: AMT6856C3M

Sample Status: Engineering sample

Applicant: Amtran Technology Co., Ltd.

Test Date: 2025/12/11 ~ 2026/1/7

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2020

procedure: 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 -14.36 dB at 0.45506 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -8.2 dB at 33.20 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -2.4 dB at 2390.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	960 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.7 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.55 dB
	30 MHz ~ 1 GHz	5.77 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.71 dB
	6 GHz ~ 18 GHz	5.3 dB
	18 GHz ~ 40 GHz	4.98 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	AMT6856C3M Wi-Fi Tri-band 2X2 11ax + Bluetooth 5.3 Combo Module
Brand	AMTRAN
Test Model	AMT6856C3M
Status of EUT	Engineering sample
Power Supply Rating	3.9 Vdc (system)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11 802.11n (HT40), VHT40, 802.11ax (HE40): 7
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone
Output Power	621.697 mW (27.94 dBm)

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 6 GHz) technologies used for the EUT.
2. Bluetooth, WLAN 2.4 GHz & WLAN 5 GHz & WLAN 6 GHz technologies cannot transmit at same time.
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 refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Frequency range (GHz)	Gain (dBi)	Antenna Type	Connector Type
2(WIFI)	0/1	2.4~2.4835	5.67	Dipole	ipex(MHF)

* 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	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (RU26/52/106/242/484)	2TX	2RX

Note:

The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz) and 802.11ax mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20):

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

7 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40):

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The antenna can be used in the following ways: X / Y / Z axis. Pre-scan in these ways and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.
Worst Case:	1. The antenna the worst case was found when positioned on (X / Y / Z axis): Y axis

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s	NA
	VHT20	CDD	1, 6, 11	BPSK	MCS0	NA
	VHT40	CDD	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	CDD	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	CDD	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	CDD	1, 6, 11	BPSK	MCS0	53, 53, 54
Power Spectral Density	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	CDD	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	CDD	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	CDD	1, 6, 11	BPSK	MCS0	53, 53, 54
6 dB Bandwidth / Conducted Out of Band Emissions	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	CDD	1, 6, 11	BPSK	MCS0	0, 0, 8

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
	802.11ax (HE20) 52-tone RU	CDD	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	CDD	1, 6, 11	BPSK	MCS0	53, 53, 54
AC Power Conducted Emissions	802.11ax (HE20)	CDD	11	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	802.11ax (HE20)	CDD	11	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	CDD	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	CDD	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	CDD	1, 6, 11	BPSK	MCS0	53, 53, 54

3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 1.425 ms / 1.436 ms x 100% = 99.2%

802.11g: Duty cycle = 2.098 ms / 2.112 ms x 100% = 99.3%

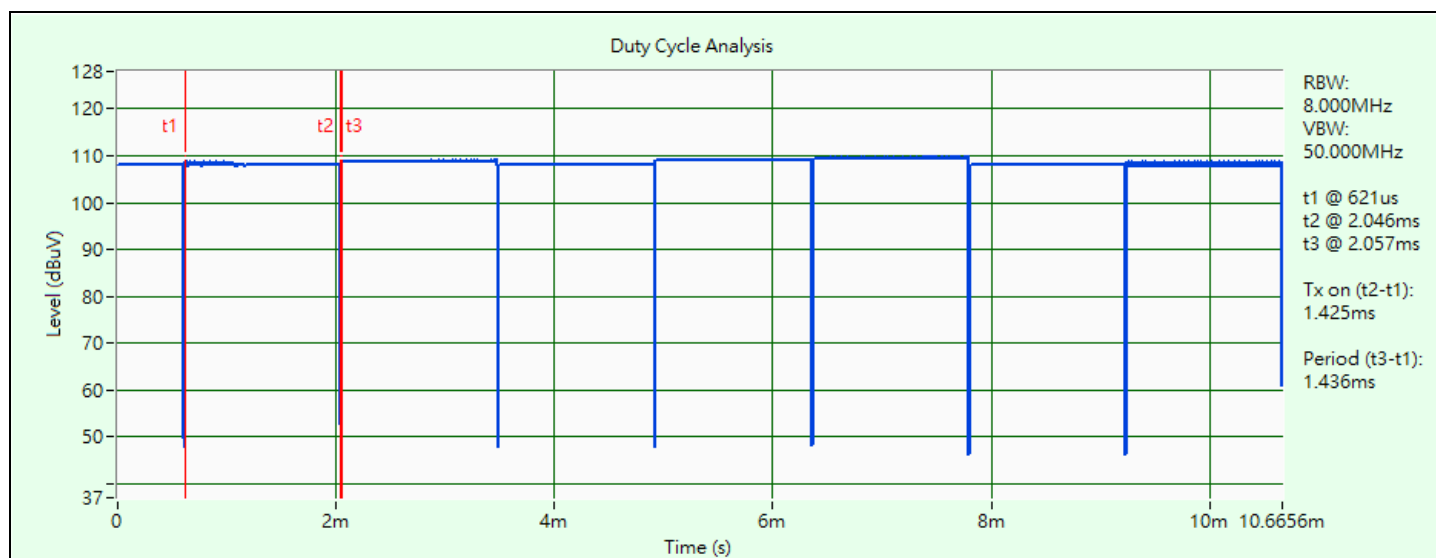
802.11ax (HE20): Duty cycle = 5.451 ms / 5.457ms x 100% = 99.9%

802.11ax (HE40): Duty cycle = 5.447 ms / 5.457 ms x 100% = 99.8%

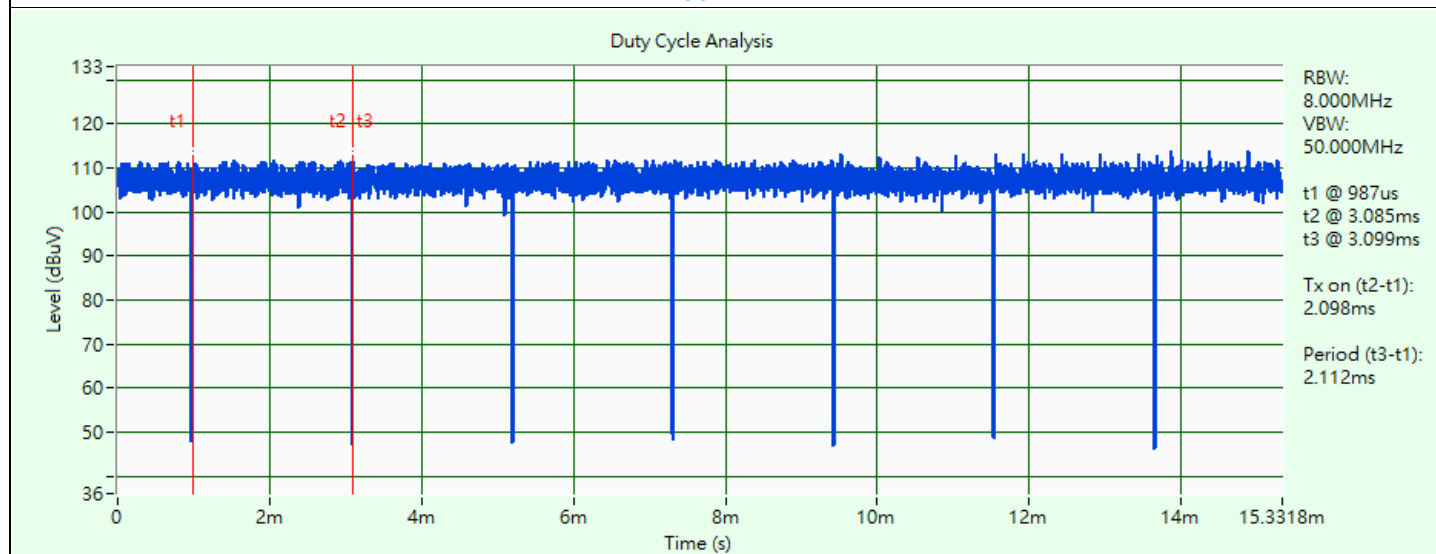
802.11ax (HE20) 26-tone RU: Duty cycle = 5.451 ms / 5.457ms x 100% = 99.9%

802.11ax (HE20) 52-tone RU: Duty cycle = 5.451 ms / 5.457ms x 100% = 99.9%

802.11ax (HE20) 106-tone RU: Duty cycle = 5.451 ms / 5.457ms x 100% = 99.9%

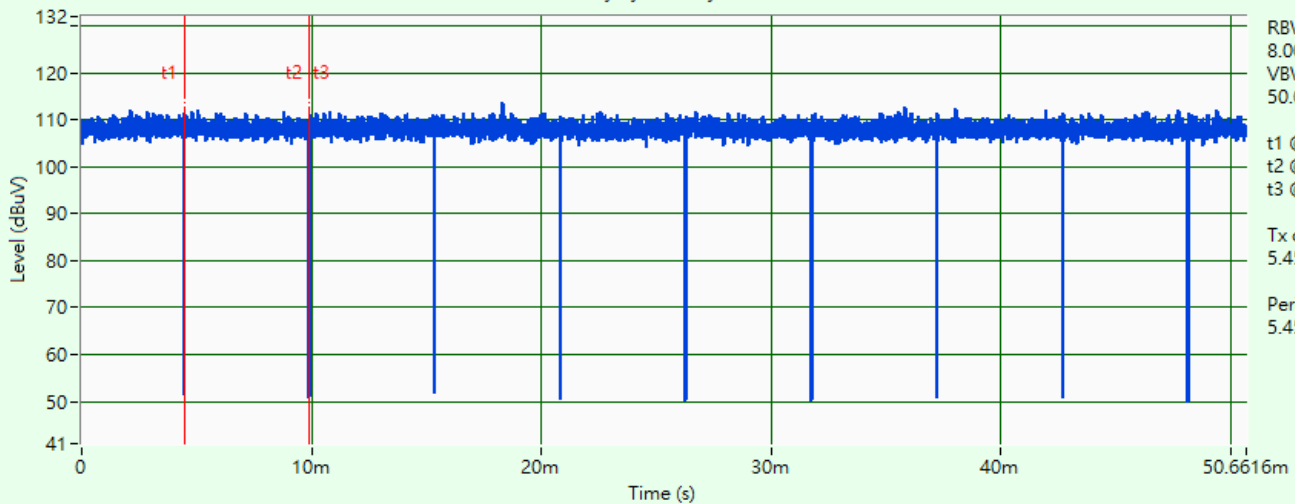


802.11b



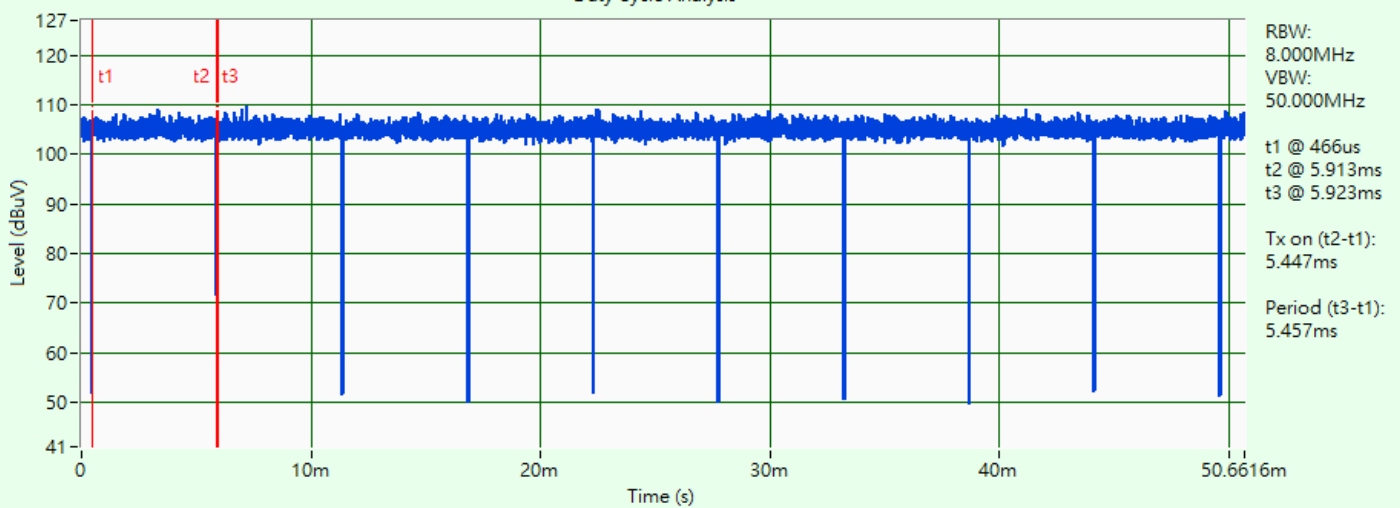
802.11g

Duty Cycle Analysis



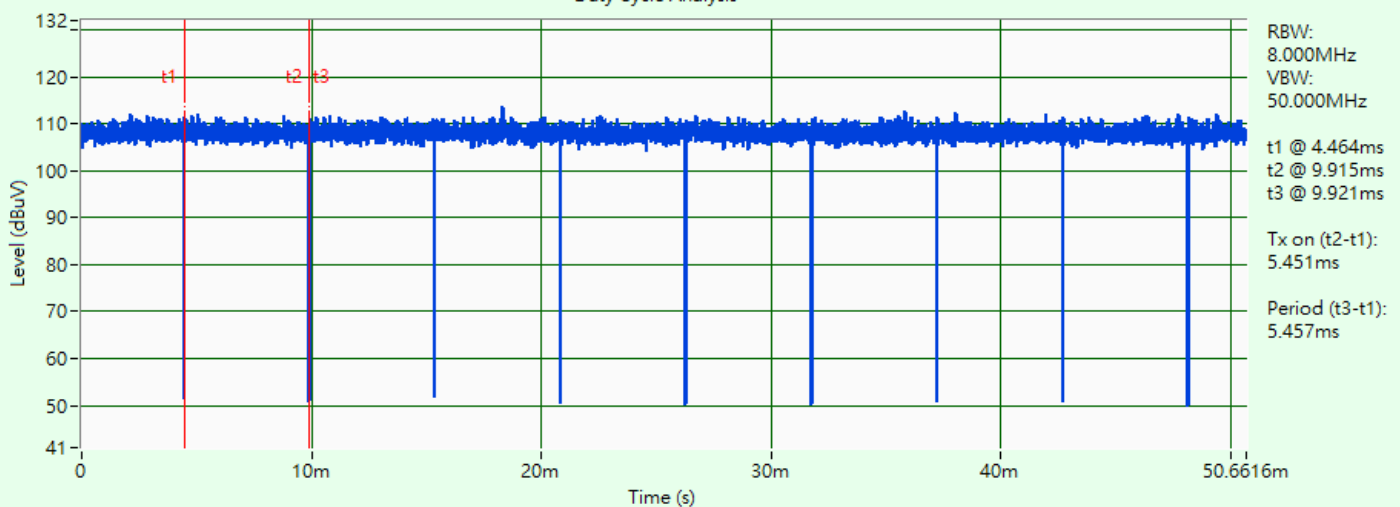
802.11ax (HE20)

Duty Cycle Analysis

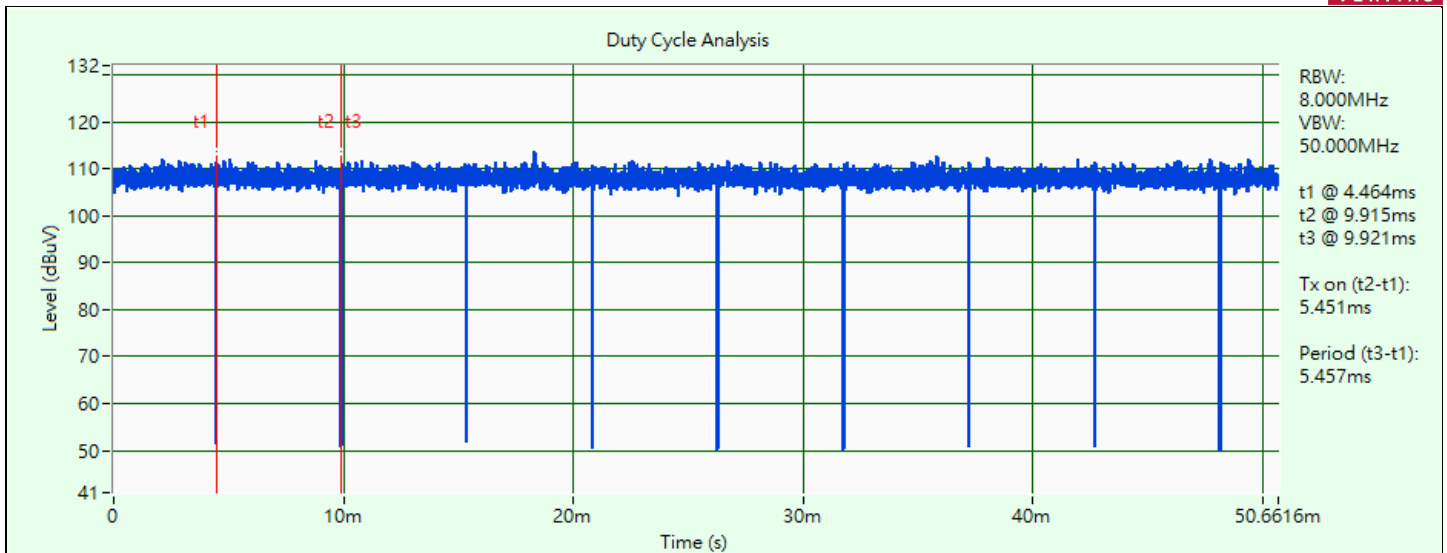


802.11ax (HE40)

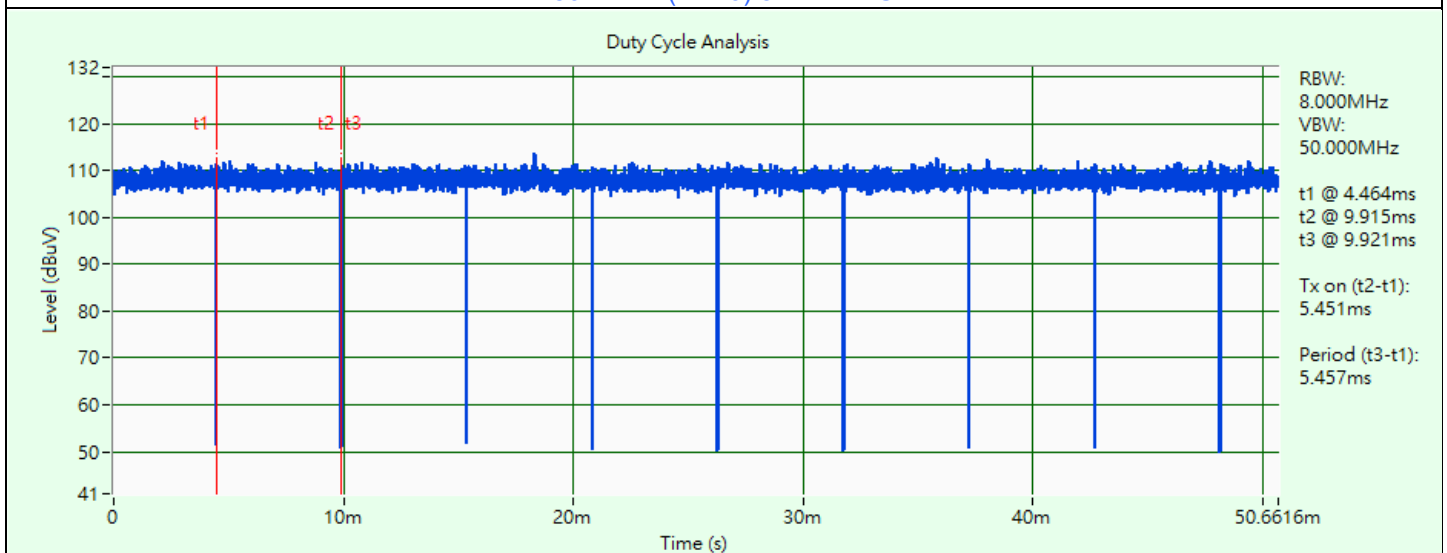
Duty Cycle Analysis



802.11ax (HE20) 26-tone RU



802.11ax (HE20) 52-tone RU

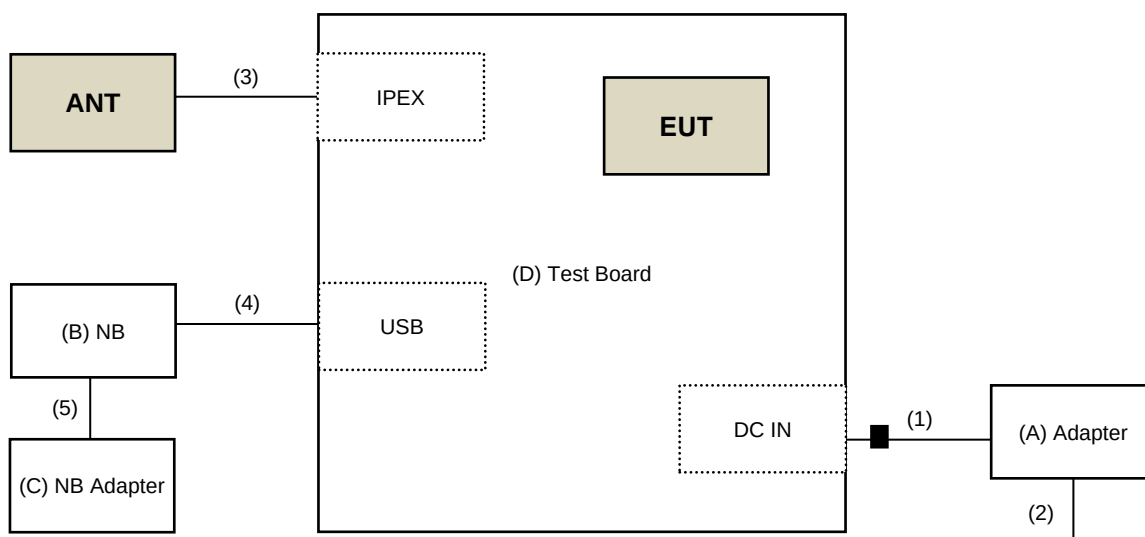


802.11ax (HE20) 106-tone RU

3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT V4.1) 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	Adapter	LITEON	PA-1041-91	N/A	N/A	Supplied by applicant
B	NB	Lenovo	IdeaPad 5 15ITL05	N/A	N/A	Provided by Lab
C	NB Adapter	Lenovo	ADLX65CLGC05	N/A	N/A	Provided by Lab
D	Test Board	N/A	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Adapter DC cable	1	1.5	N	1	Supplied by applicant
2	Adapter AC cable	1	0.8	N	0	Supplied by applicant
3	ANT cable	3	0.105	N	0	Supplied by applicant
4	type C cable	1	1	Y	0	Provided by Lab
5	NB Adapter DC cable	1	1.8	N	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
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1339443	2025/5/28	2026/5/27
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20

Notes:

1. The test was performed in Linkou - Oven
2. Tested Date: 2025/12/31

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY54490260	2025/7/24	2026/7/23
Signal Analyzer R&S	FSV40	101544	2025/7/1	2026/6/30
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou - Oven
2. Tested Date: 2025/12/31

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance LYNICS	0900510	E1-01-305	2025/2/20	2026/2/19
		E1-01-306	2025/4/16	2026/4/15
DC LISN R&S	ESH3-Z6	100219	2025/7/10	2026/7/9
		844950/018	2025/7/10	2026/7/9
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01631	2025/5/2	2026/5/1
EMI Test Receiver R&S	EPL 1000	101064	2025/4/17	2026/4/16
		101065	2025/4/22	2026/4/21
	ESR3	102412	2025/12/23	2026/12/22
High Pass Filter EMCI	150HPF-ME	114005	2025/5/2	2026/5/1
		114006	2025/5/2	2026/5/1
	150HPF-MF	113009	2025/5/2	2026/5/1
High Voltage Probe Schwarzbeck	TK9420	00982	2025/12/3	2026/12/2
LISN R&S	ENV216	101195	2025/7/18	2026/7/17
		101196	2025/5/19	2026/5/18
		101197	2025/7/4	2026/7/3
LISN Schwarzbeck	NNLK 8121	8121-731	2025/6/10	2026/6/9
		8121-00759	2025/8/12	2026/8/11
		8121-808	2025/4/23	2026/4/22
	NNLK 8129	00624	2025/10/9	2026/10/8
		8129229	2025/10/14	2026/10/13
	NSLK 8128	8128-244	2025/11/11	2026/11/10
Passive Voltage Probe R&S	ESH2-Z3	100073	2025/5/26	2026/5/25
RF Coaxial Cable PEWC	5D-FB	Cable-CO5-01	2025/1/17	2026/1/16
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 5.
2. Tested Date: 2025/12/30

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2025/9/17	2026/9/16
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
MXE EMI Receiver Agilent	N9038A	MY51210114	2025/2/10	2026/2/9
Preamplifier Agilent	8447D	2944A11064	2025/2/14	2026/2/13
Radiating Loop Antenna TESEQ	RLA 6120-20	80002	2025/7/29	2026/7/28
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2025/6/24	2026/6/23
Signal Analyzer R&S	FSV40	101544	2025/7/1	2026/6/30
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/12/29

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2025/5/22	2026/5/21
Horn Antenna EMCO	3115	00028257	2025/11/9	2026/11/8
Horn Antenna ETS-Lindgren	3117-PA	00215857	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	212	2025/10/28	2026/10/27
		BBHA9170190	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210114	2025/2/10	2026/2/9
Notch Filter Micro-Tronics	BRC50703-01	010	2025/5/22	2026/5/21
	BRM17690	005	2025/5/22	2026/5/21
Preamplifier EMCI	EMC0126545	980076	2025/2/14	2026/2/13
	EMC184045B	980175	2025/8/23	2026/8/22
		980235	2025/2/14	2026/2/13
Preamplifier HP	8449B	3008A01201	2025/2/14	2026/2/13
RF Coaxial Cable EMCI	EMC104	190801	2025/7/4	2026/7/3
		190804	2025/7/4	2026/7/3
RF Coaxial Cable EMEC	EM102-KMKM-100	02	2025/7/4	2026/7/3
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2025/7/4	2026/7/3
Signal Analyzer R&S	FSV40	101042	2025/9/19	2026/9/18
		101544	2025/7/1	2026/6/30
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/12/11 ~ 2026/1/7

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	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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

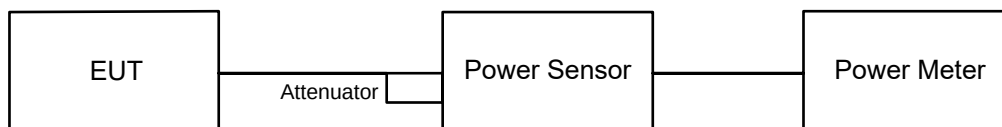
Notes:

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.

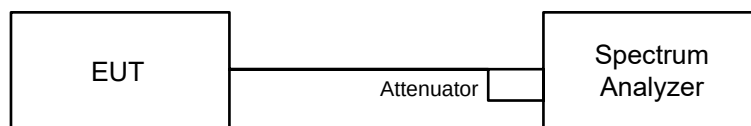
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

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

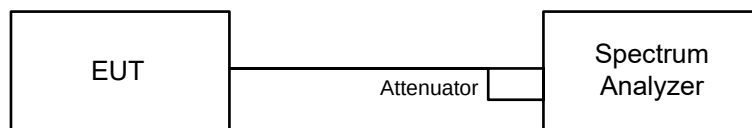


6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

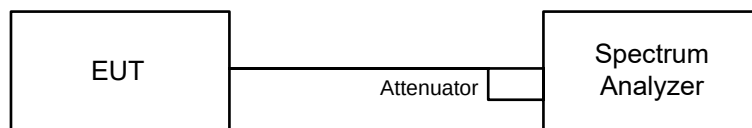


6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

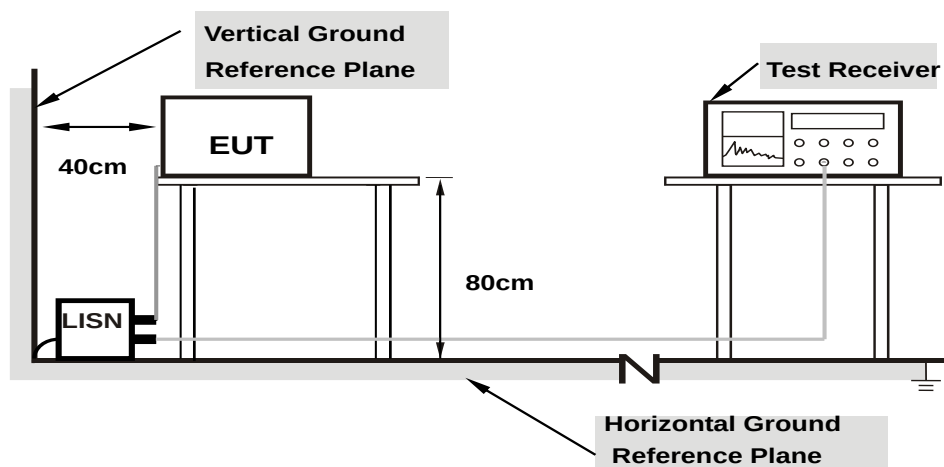
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOBE

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- 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

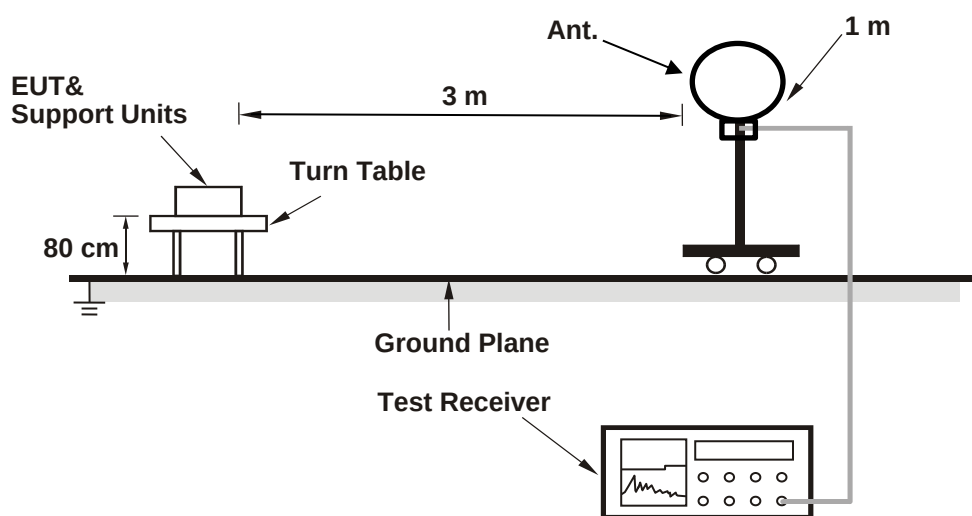
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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.

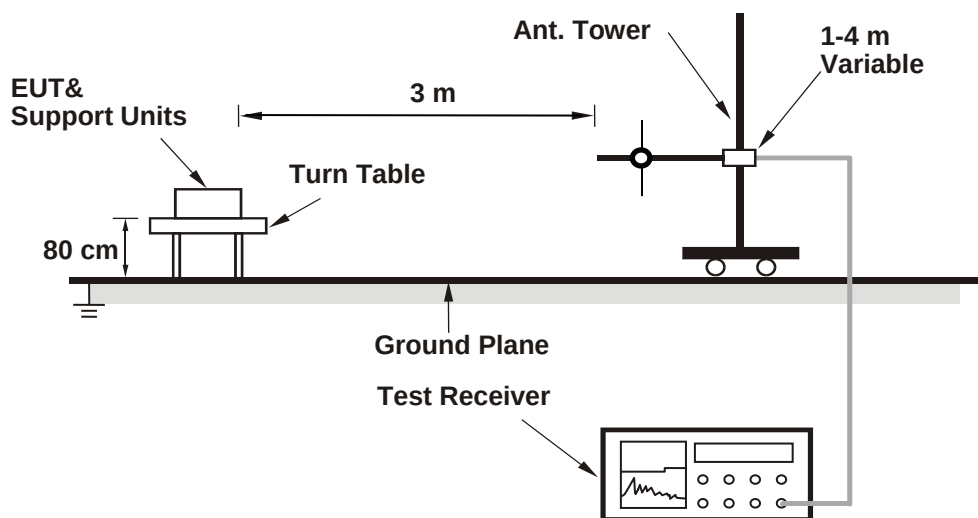
6.6 Unwanted Emissions below 1 GHz

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

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- 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.
- 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:

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

For Radiated emission above 30 MHz

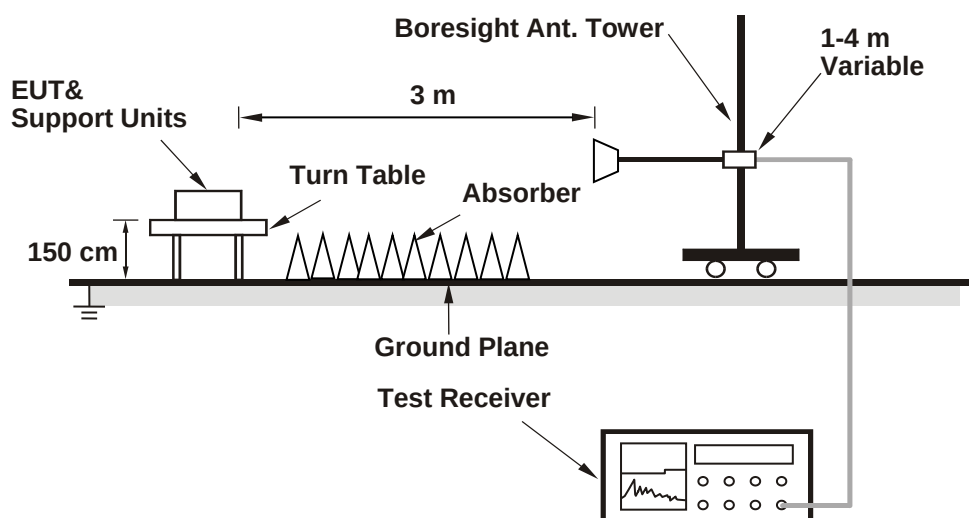
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 1 GHz.

Notes:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 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

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

- 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.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- 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 (System):	3.9 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.44	24.23	542.821	27.35	30	Pass
6	2437	24.47	24.25	545.971	27.37	30	Pass
11	2462	24.36	24.17	534.114	27.28	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.26	24.53	550.478	27.41	30	Pass
6	2437	24.23	24.62	554.584	27.44	30	Pass
11	2462	24.17	24.49	542.406	27.34	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.65	24.74	589.594	27.71	30	Pass
6	2437	24.70	24.73	592.288	27.73	30	Pass
11	2462	24.67	24.76	592.316	27.73	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	24.49	24.68	574.955	27.60	30	Pass
6	2437	24.45	24.64	569.684	27.56	30	Pass
9	2452	24.39	24.56	560.548	27.49	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	24.85	24.96	618.821	27.92	30	Pass
6	2437	24.88	24.94	619.499	27.92	30	Pass
11	2462	24.86	24.99	621.697	27.94	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	24.68	24.86	599.961	27.78	30	Pass
6	2437	24.64	24.82	594.461	27.74	30	Pass
9	2452	24.58	24.77	586.994	27.69	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 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	24.64	24.76	590.298	27.71	30	Pass
6	2437	24.68	24.71	589.566	27.71	30	Pass
11	2462	24.66	24.79	593.716	27.74	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 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	24.63	24.78	591.01	27.72	30	Pass
6	2437	24.69	24.72	590.925	27.72	30	Pass
11	2462	24.65	24.80	593.738	27.74	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 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	24.62	24.74	587.586	27.69	30	Pass
6	2437	24.65	24.72	588.226	27.70	30	Pass
11	2462	24.64	24.77	590.988	27.72	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.67 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	21.91	21.65	301.456	24.79
6	2437	21.96	21.67	303.929	24.83
11	2462	21.84	21.59	296.968	24.73

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.76	17.07	98.357	19.93
6	2437	16.70	17.11	98.178	19.92
11	2462	16.68	17.02	96.909	19.86

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.62	16.88	94.673	19.76
6	2437	16.66	16.82	94.429	19.75
11	2462	16.64	16.92	95.336	19.79

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	16.56	16.81	93.263	19.70
6	2437	16.54	16.80	92.945	19.68
9	2452	16.52	16.78	92.518	19.66

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	16.84	17.08	99.356	19.97
6	2437	16.86	17.05	99.228	19.97
11	2462	16.85	17.12	99.94	20.00

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	16.79	17.02	98.103	19.92
6	2437	16.75	16.99	97.319	19.88
9	2452	16.70	16.96	96.433	19.84

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	16.64	16.87	94.772	19.77
6	2437	16.66	16.84	94.651	19.76
11	2462	16.64	16.93	95.449	19.80

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	16.66	16.86	94.874	19.77
6	2437	16.63	16.86	94.555	19.76
11	2462	16.65	16.93	95.555	19.80

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	16.63	16.89	94.891	19.77
6	2437	16.66	16.84	94.651	19.76
11	2462	16.65	16.93	95.555	19.80

7.2 Power Spectral Density

Input Power (System):	3.9 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-2.43	-3.16	0.23	5.32	Pass
6	2437	-2.28	-2.33	0.71	5.32	Pass
11	2462	-2.22	-2.27	0.77	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.68 - 6) = 5.32$ dBm/3kHz.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-11.14	-10.30	-7.69	5.32	Pass
6	2437	-11.38	-9.32	-7.22	5.32	Pass
11	2462	-11.31	-11.16	-8.22	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.68 - 6) = 5.32$ dBm/3kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-11.24	-10.11	-7.63	5.32	Pass
6	2437	-11.48	-10.05	-7.70	5.32	Pass
11	2462	-11.40	-11.26	-8.32	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.68 - 6) = 5.32$ dBm/3kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-13.75	-12.03	-9.80	5.32	Pass
6	2437	-13.62	-12.60	-10.07	5.32	Pass
9	2452	-12.47	-13.72	-10.04	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8-(8.68-6) = 5.32$ dBm/3kHz.

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	-0.94	-1.34	1.87	5.32	Pass
6	2437	-1.71	-1.39	1.46	5.32	Pass
11	2462	-2.58	-1.12	1.22	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8-(8.68-6) = 5.32$ dBm/3kHz.

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	-3.72	-4.19	-0.94	5.32	Pass
6	2437	-4.00	-3.50	-0.73	5.32	Pass
11	2462	-3.25	-3.23	-0.23	5.32	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8-(8.68-6) = 5.32$ dBm/3kHz.

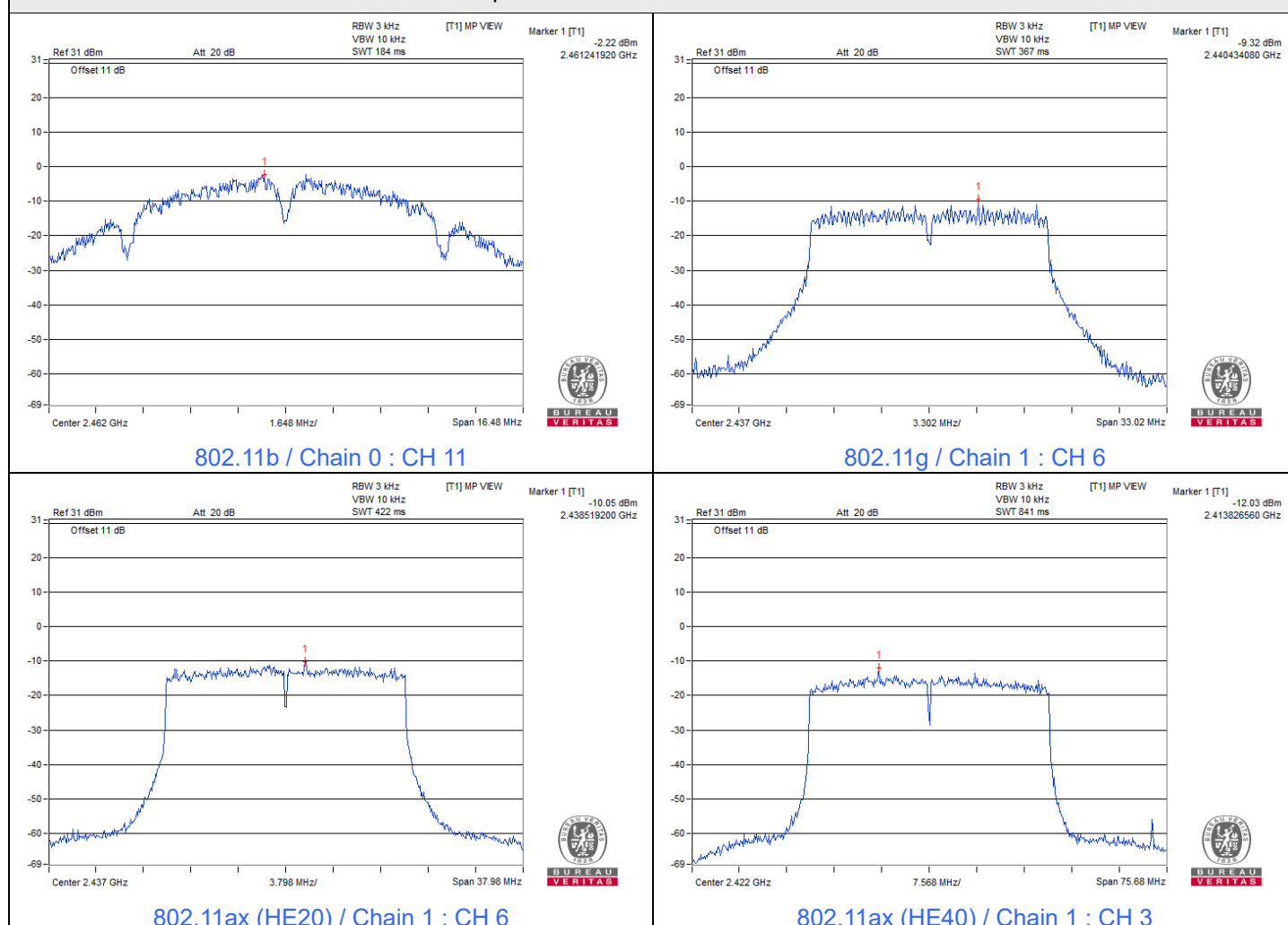
802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-5.92	-5.93	-2.91	5.32	Pass
6	2437	-6.36	-5.85	-3.09	5.32	Pass
11	2462	-6.81	-5.91	-3.33	5.32	Pass

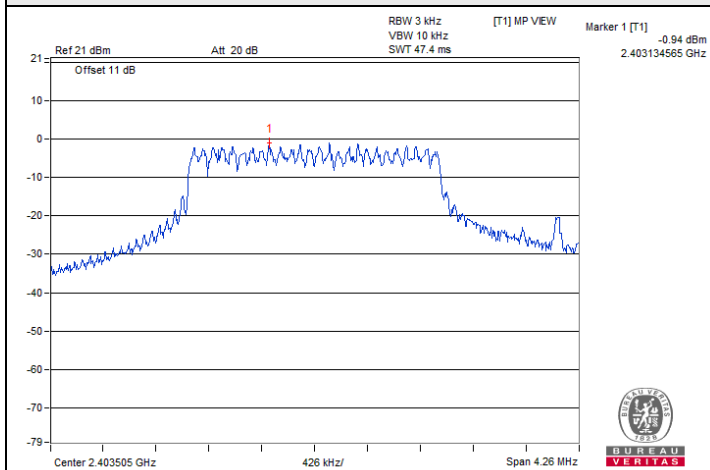
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 8.68 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (8.68 - 6) = 5.32$ dBm/3kHz.

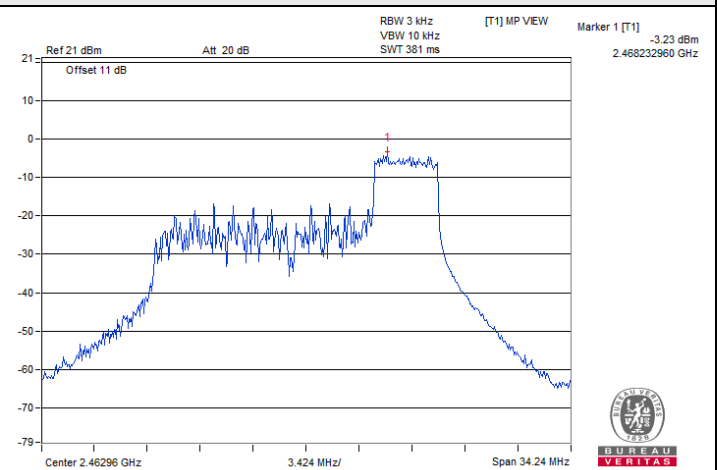
Spectrum Plot of Maximum Value



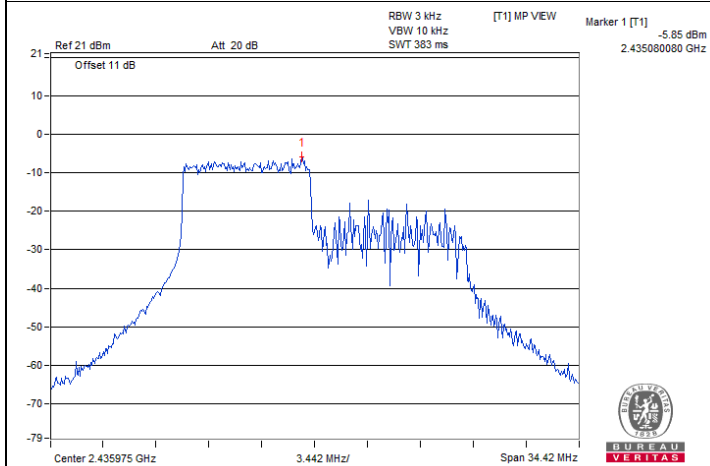
Spectrum Plot of Maximum Value



802.11ax (HE20) 26-tone RU / Chain 0: CH 1



802.11ax (HE20) 52-tone RU / Chain 1: CH 11



802.11ax (HE20) 106-tone RU / Chain 1: CH 6

7.3 6 dB Bandwidth

Input Power (System):	3.9 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.26	8.23	0.5	Pass
6	2437	8.27	8.25	0.5	Pass
11	2462	8.24	8.28	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.39	16.46	0.5	Pass
6	2437	16.42	16.51	0.5	Pass
11	2462	16.36	16.54	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	19.08	18.95	0.5	Pass
6	2437	19.09	18.99	0.5	Pass
11	2462	18.98	19.06	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	37.81	37.84	0.5	Pass
6	2437	37.81	37.72	0.5	Pass
9	2452	37.65	37.48	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	2.13	2.14	0.5	Pass
6	2437	2.13	2.14	0.5	Pass
11	2462	2.10	2.12	0.5	Pass

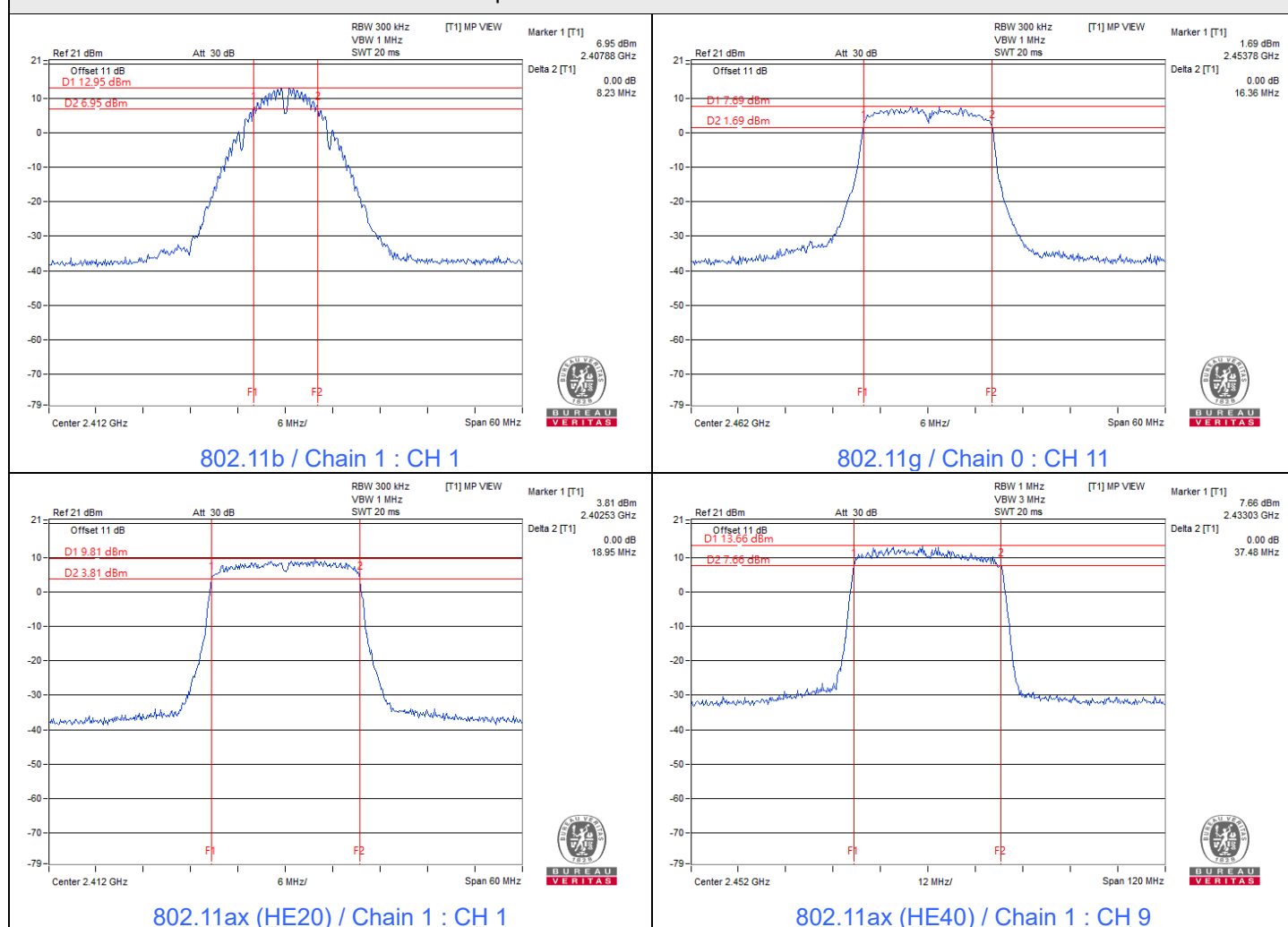
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	17.14	17.17	0.5	Pass
6	2437	17.15	17.14	0.5	Pass
11	2462	17.13	17.12	0.5	Pass

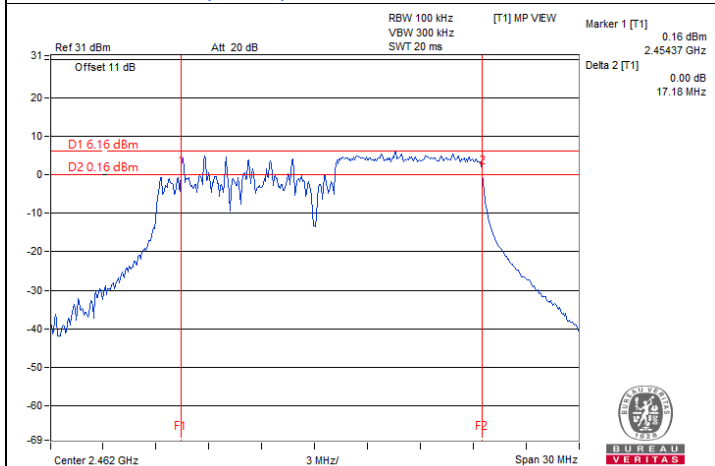
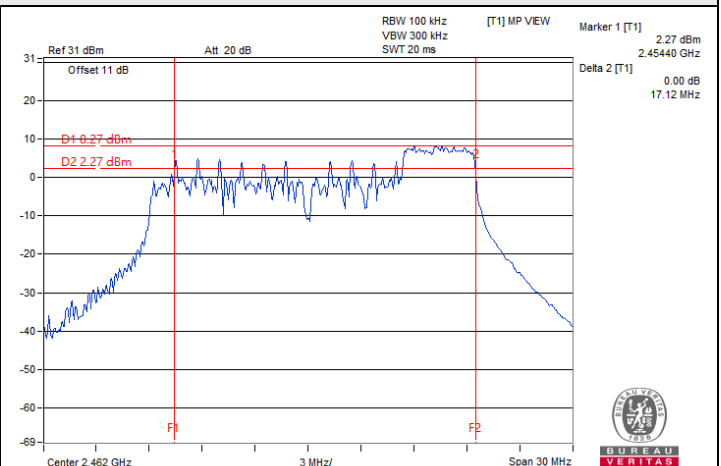
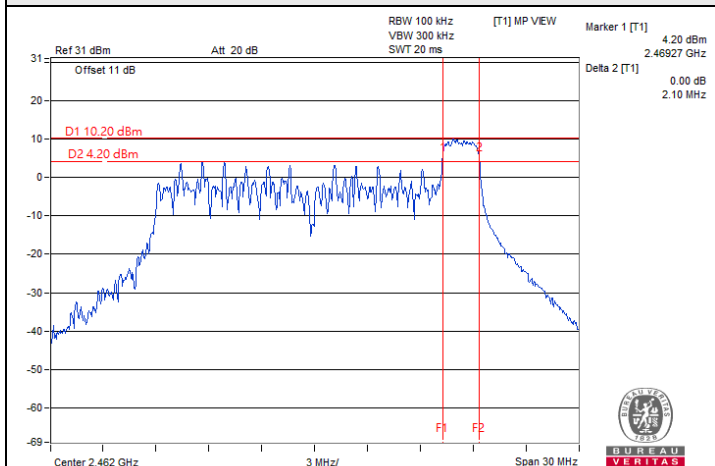
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.15	18.15	0.5	Pass
6	2437	18.18	17.21	0.5	Pass
11	2462	17.18	17.19	0.5	Pass

Spectrum Plot of Minimum Value



Spectrum Plot of Minimum Value

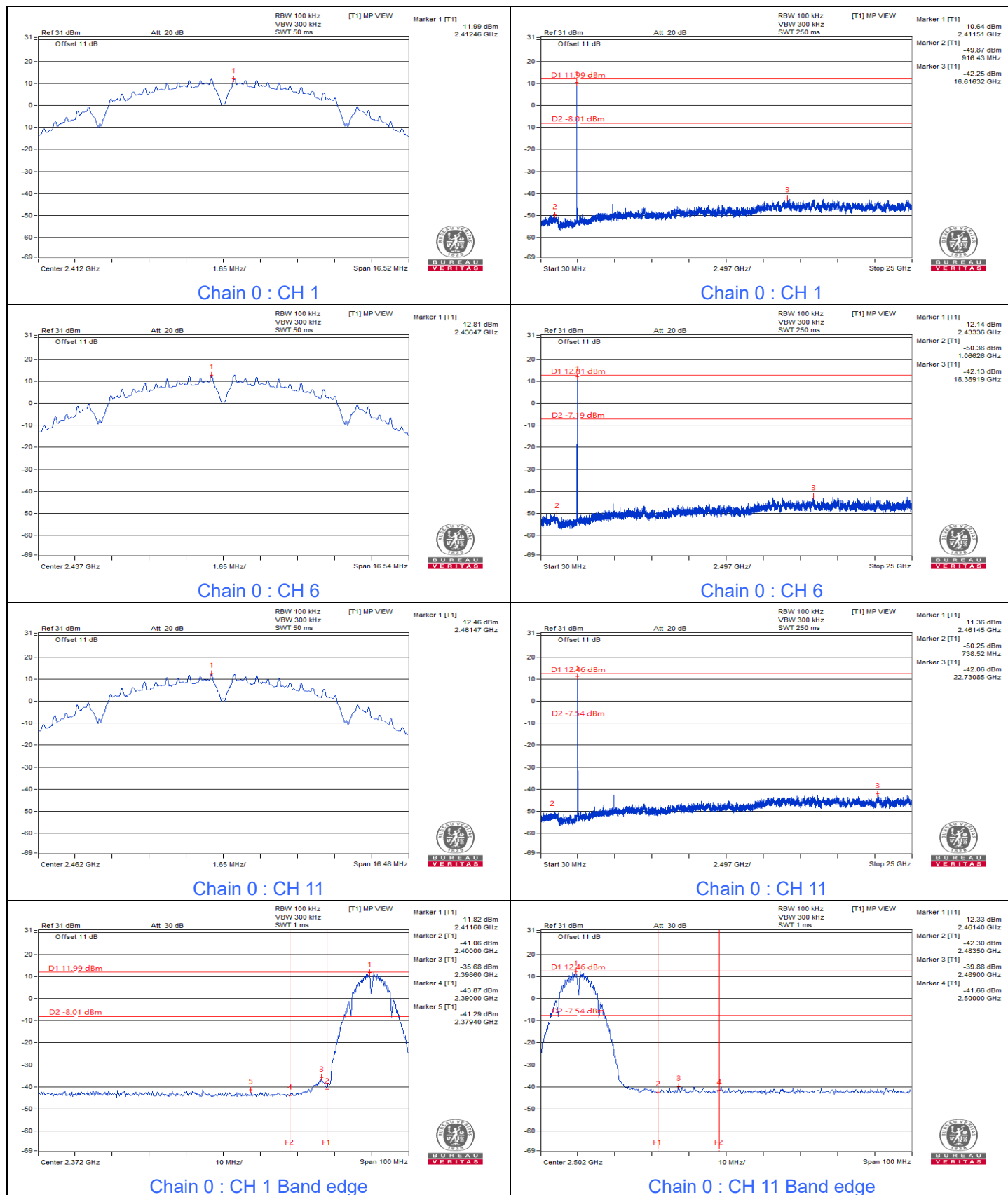


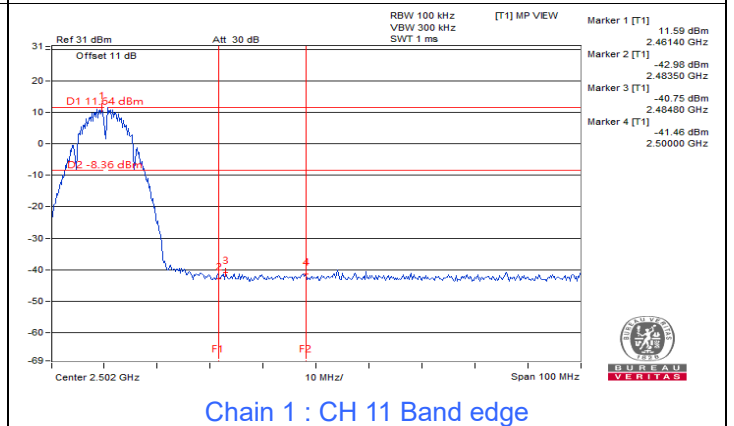
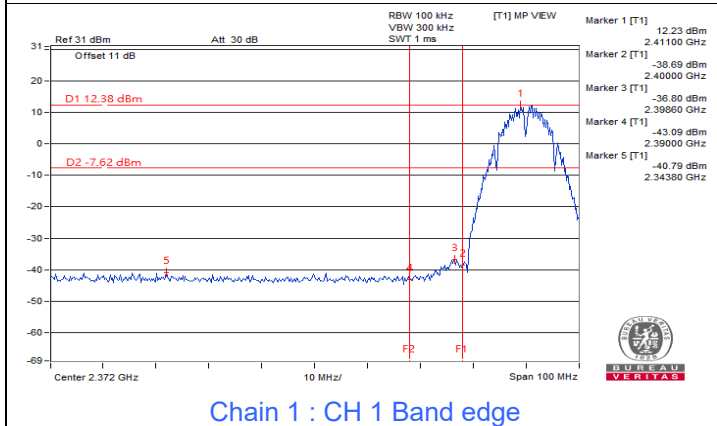
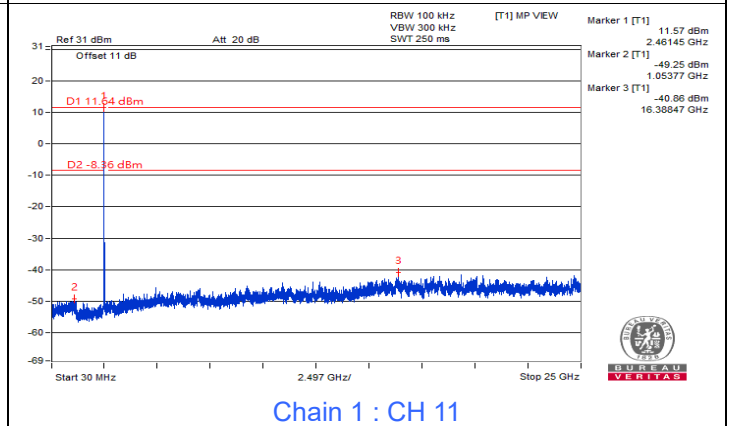
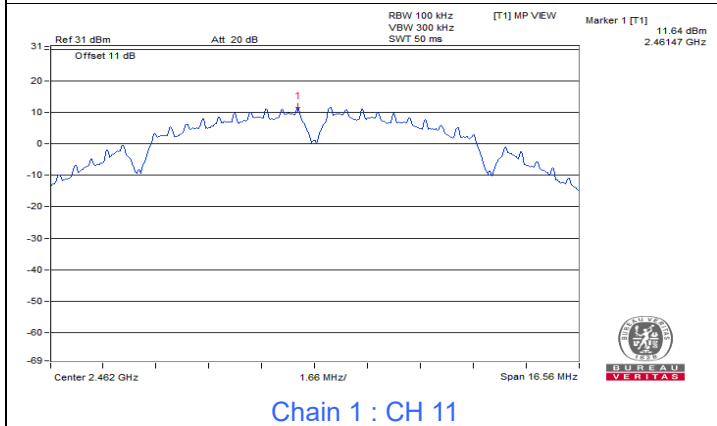
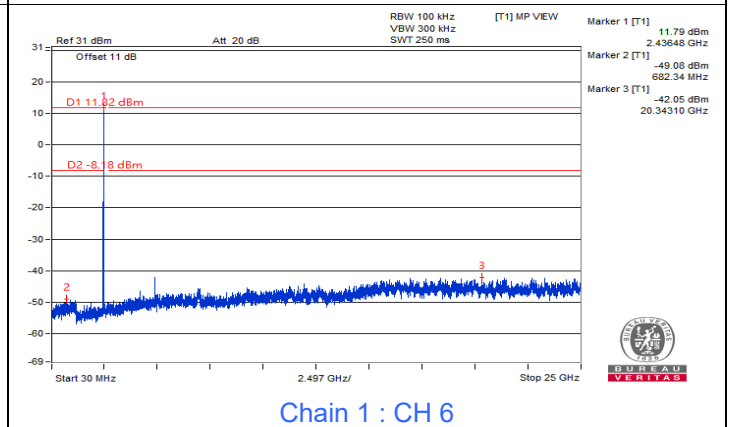
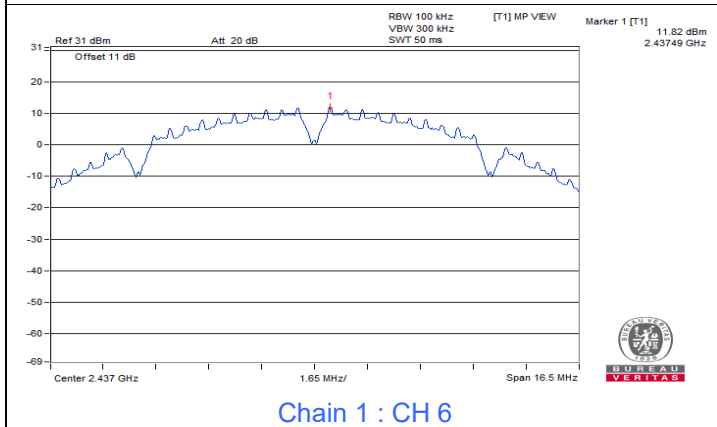
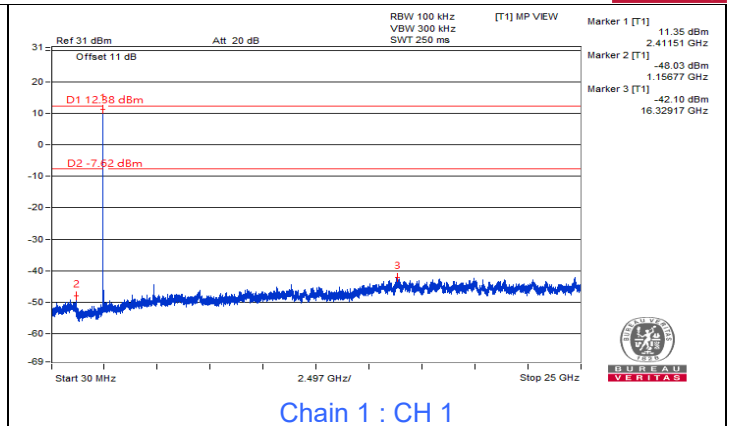
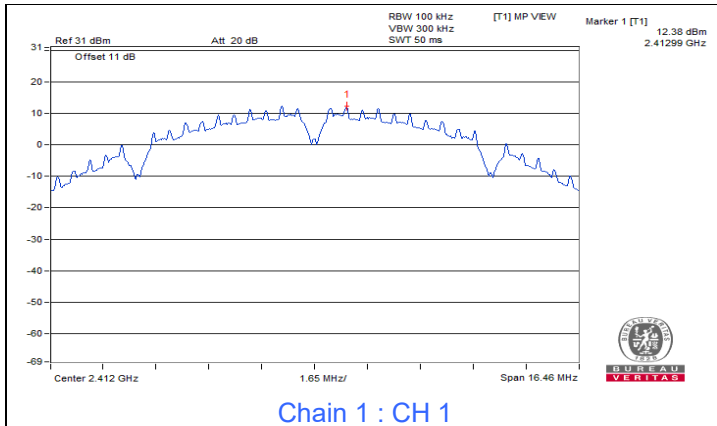
802.11ax (HE20) 106-tone RU / Chain 0 : CH 11

7.4 Conducted Out of Band Emissions

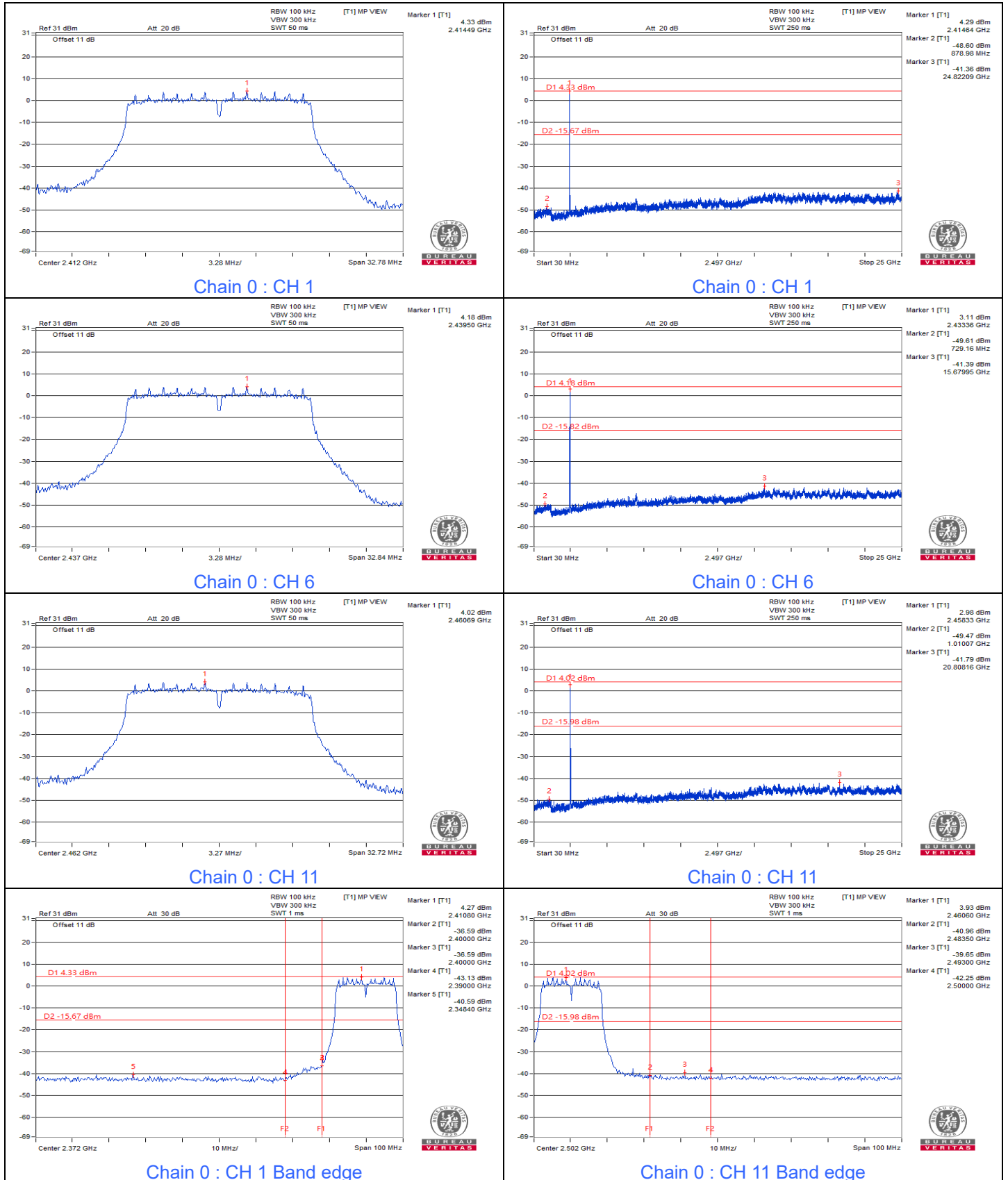
Input Power (System):	3.9 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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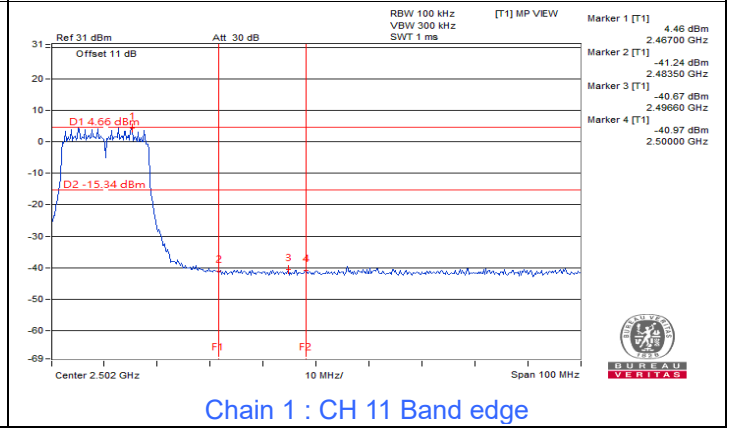
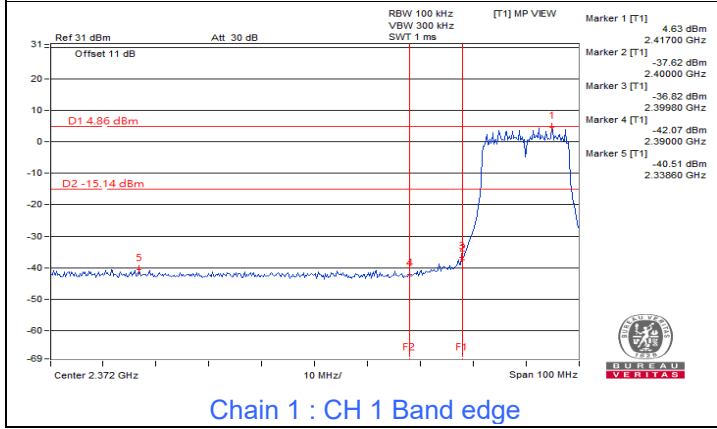
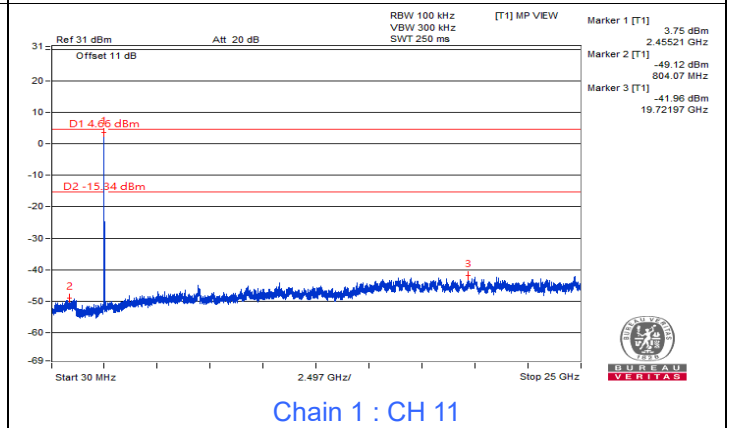
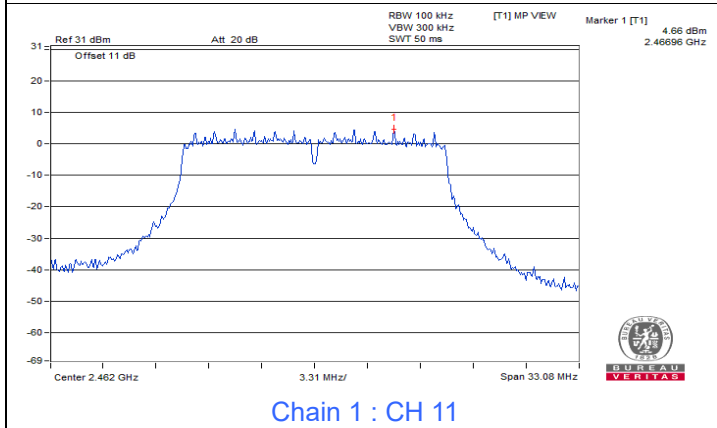
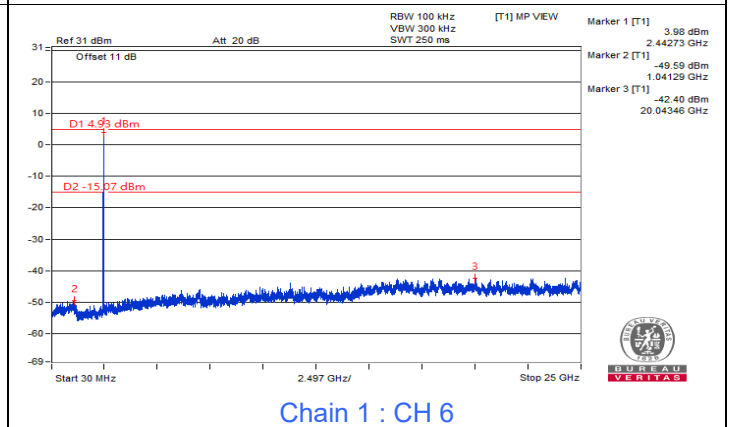
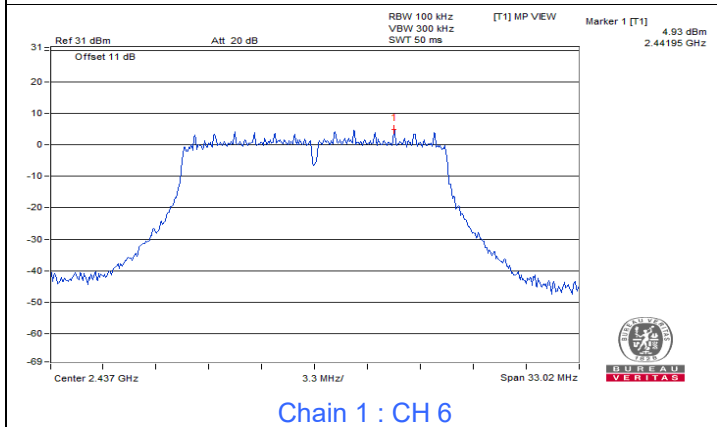
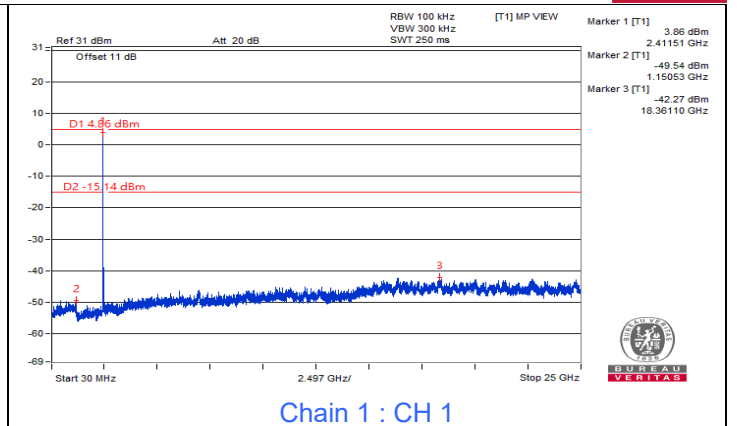
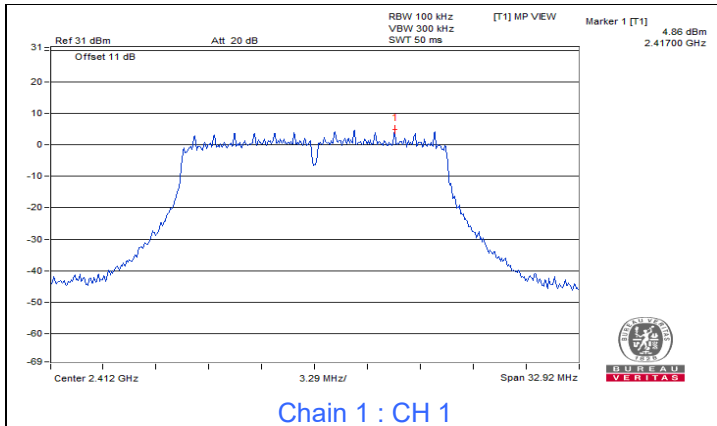
802.11b



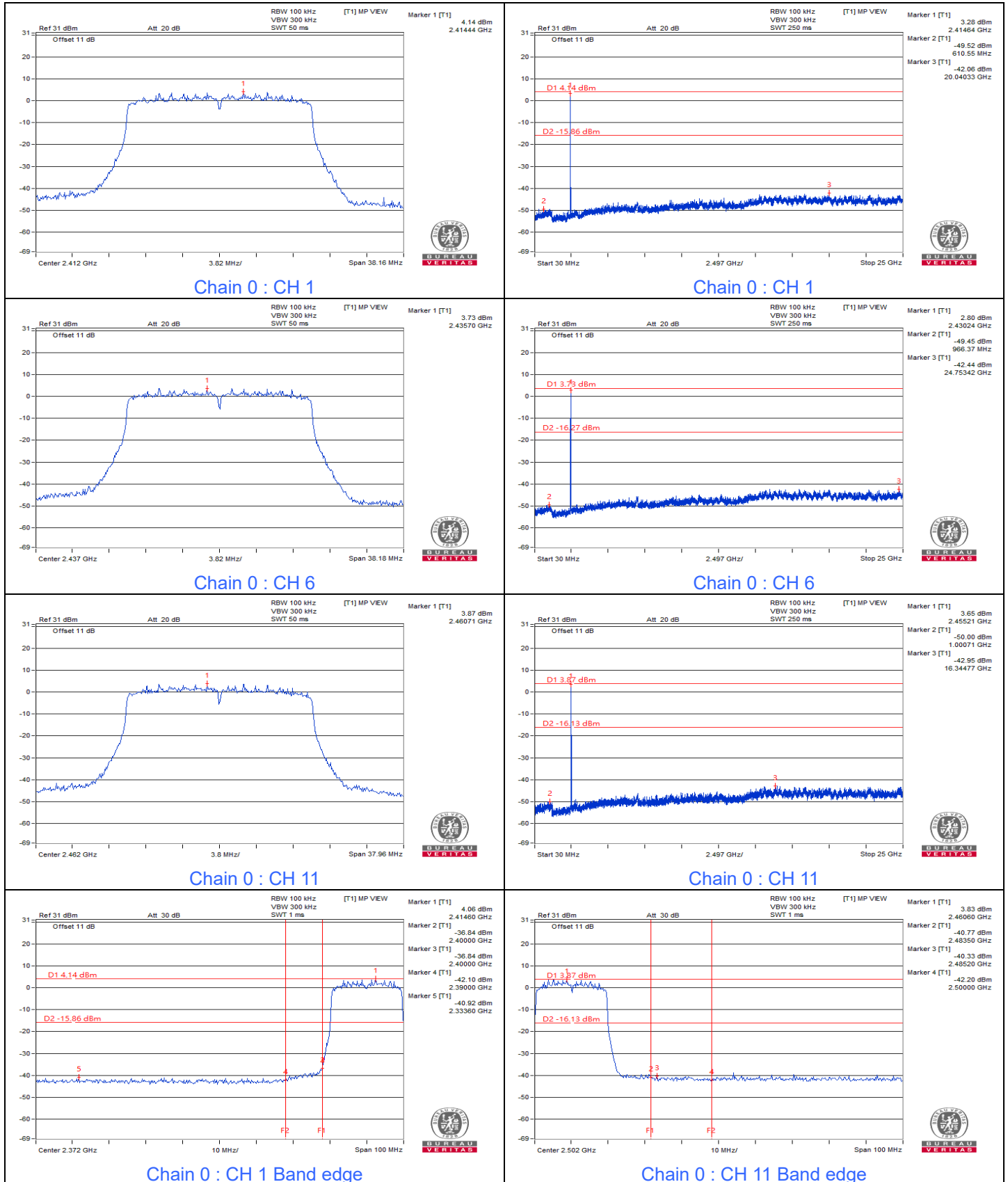


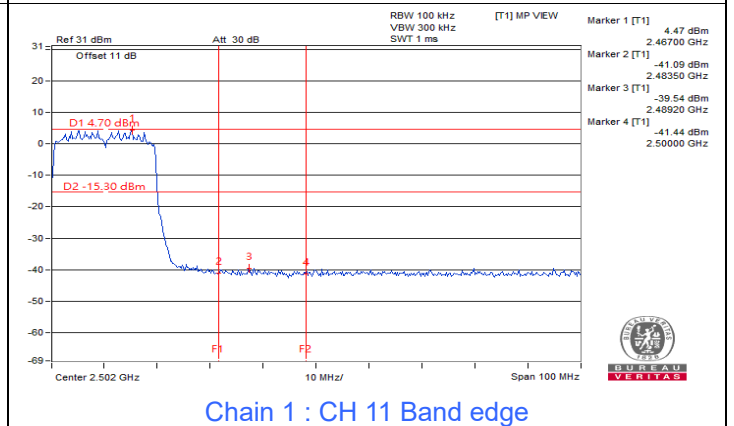
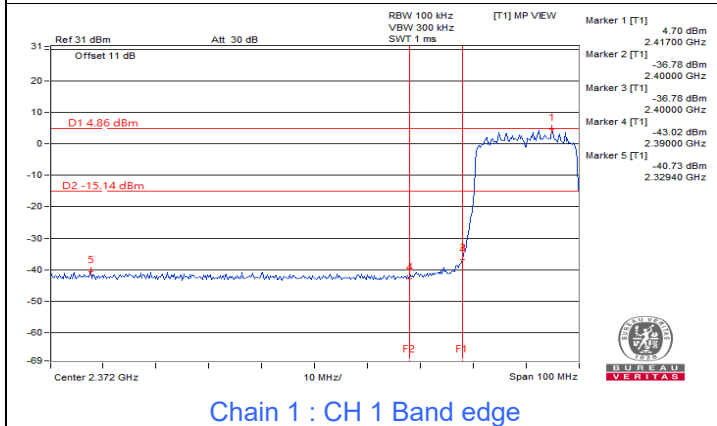
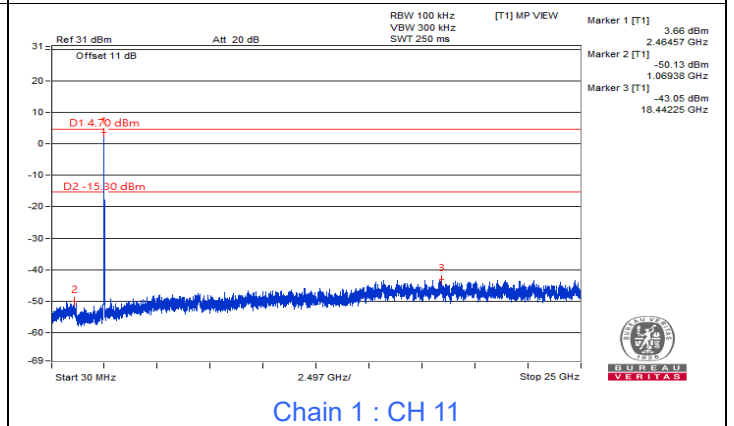
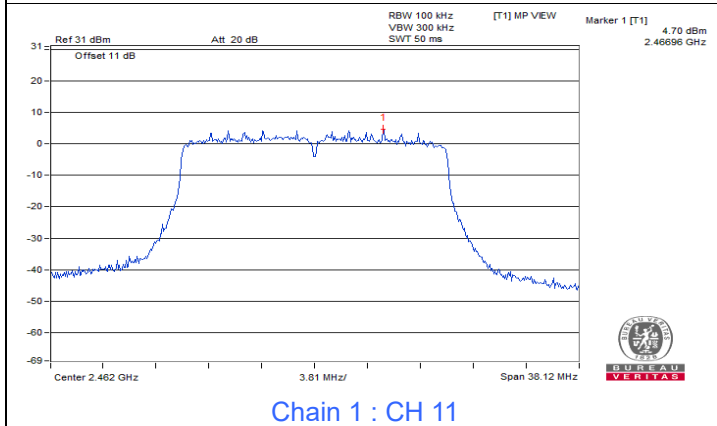
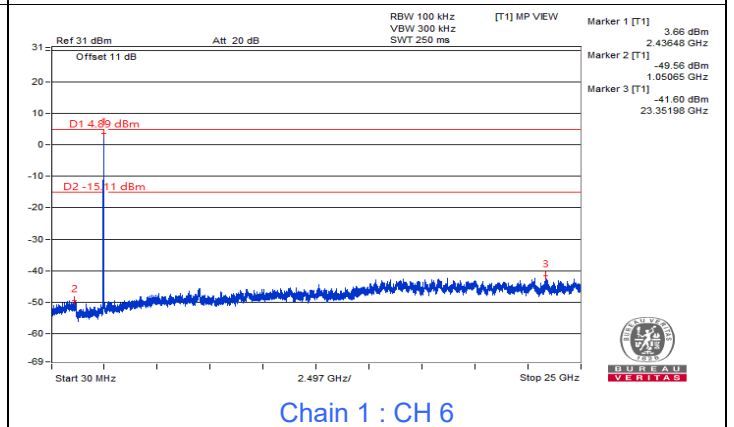
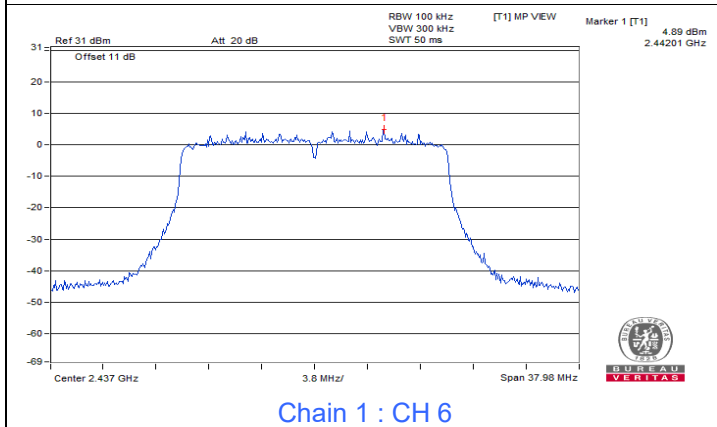
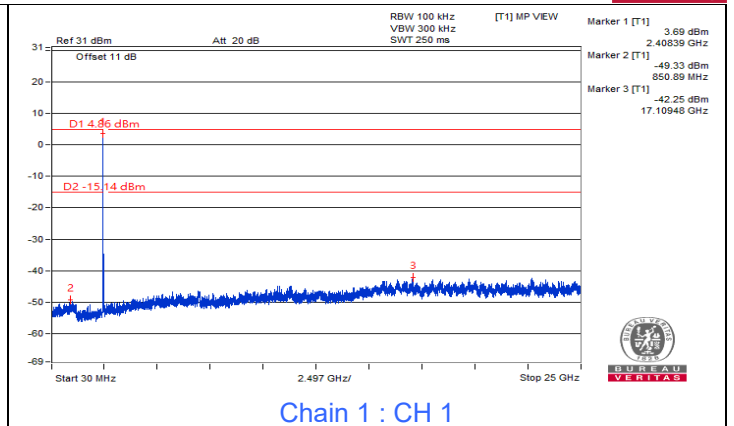
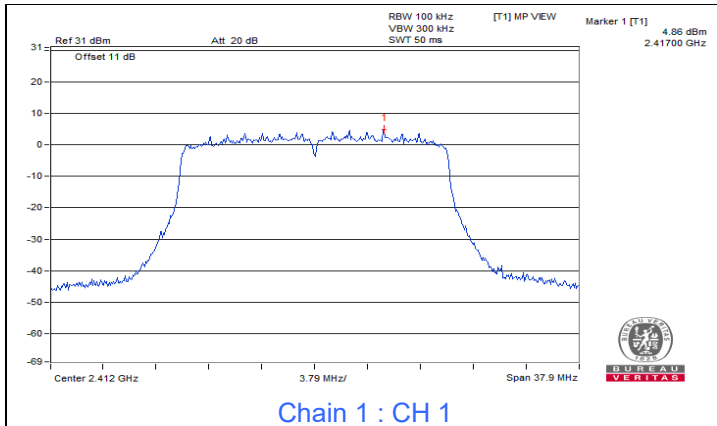
802.11g



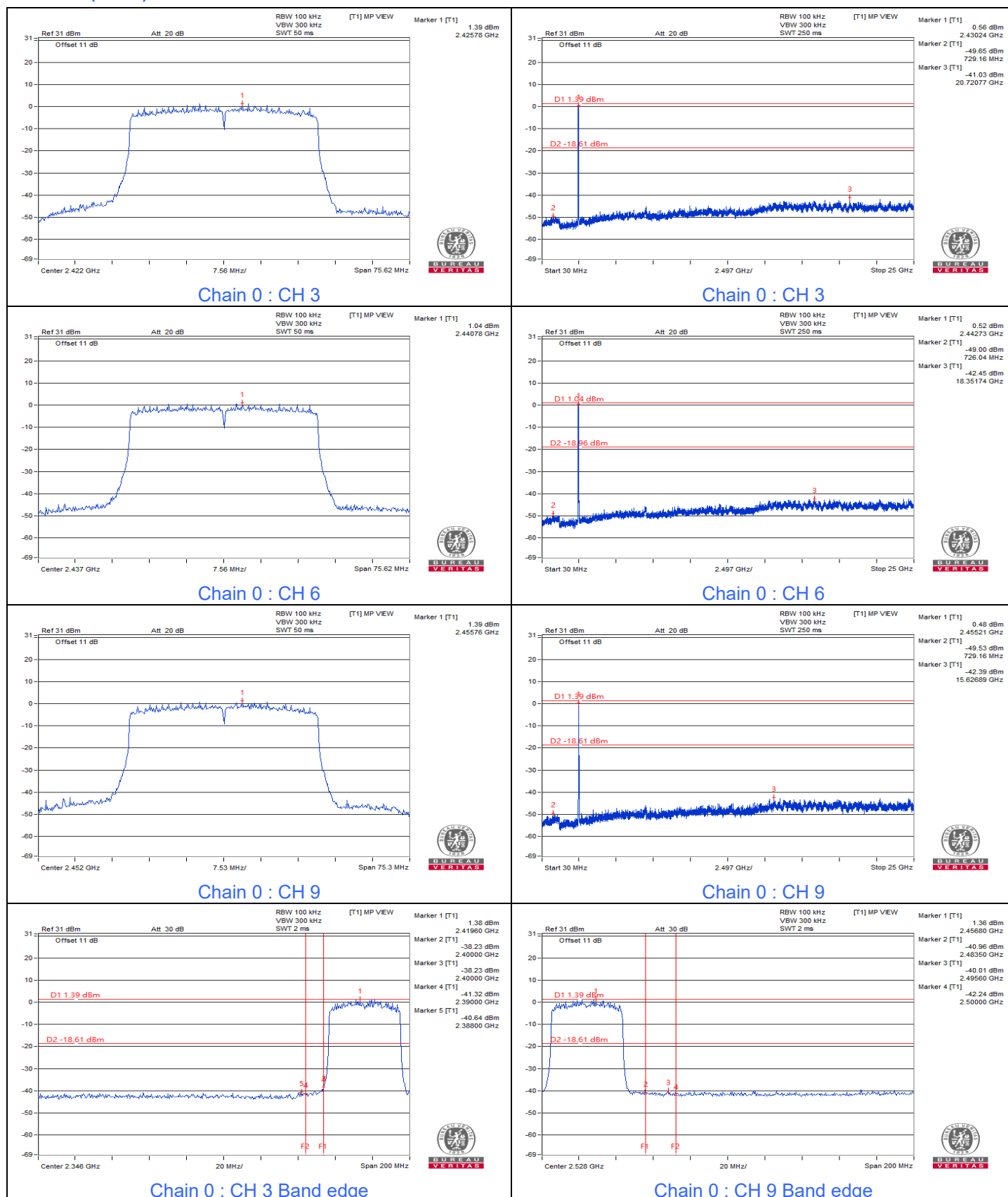


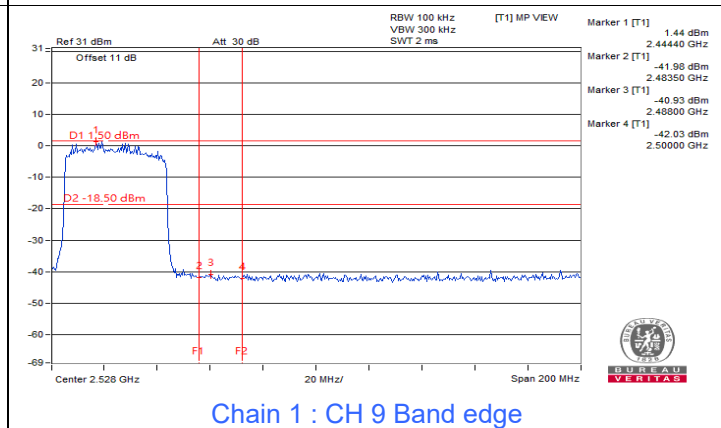
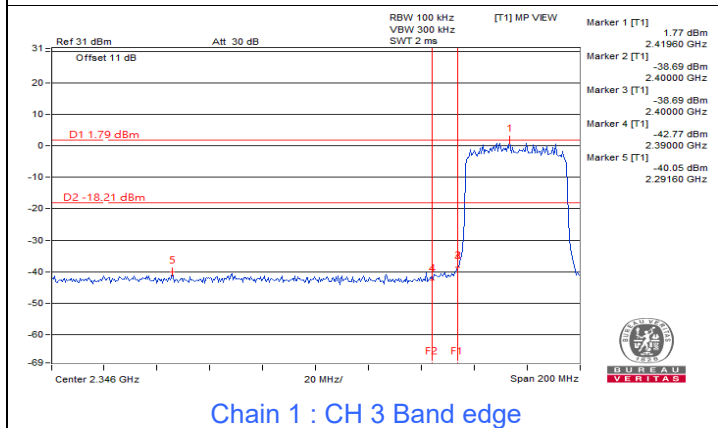
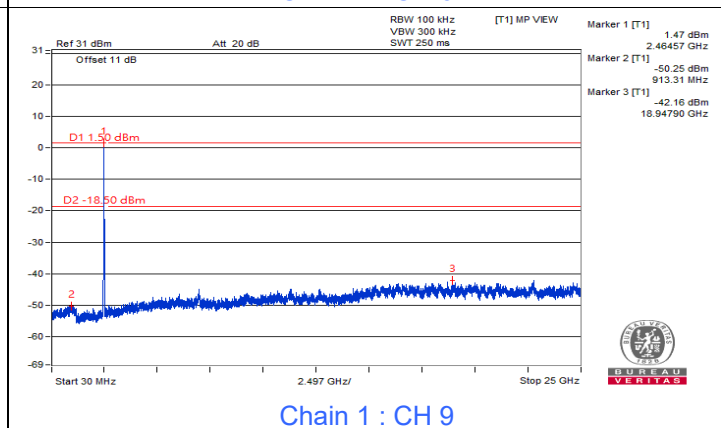
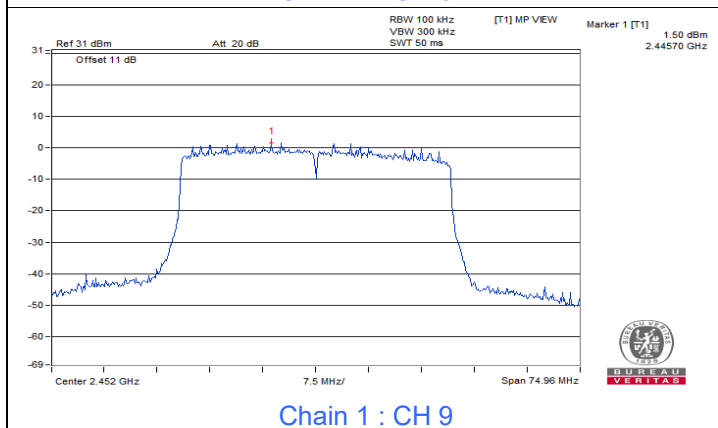
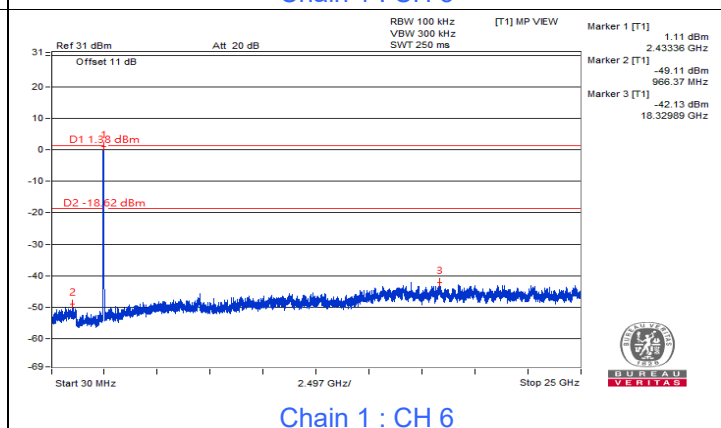
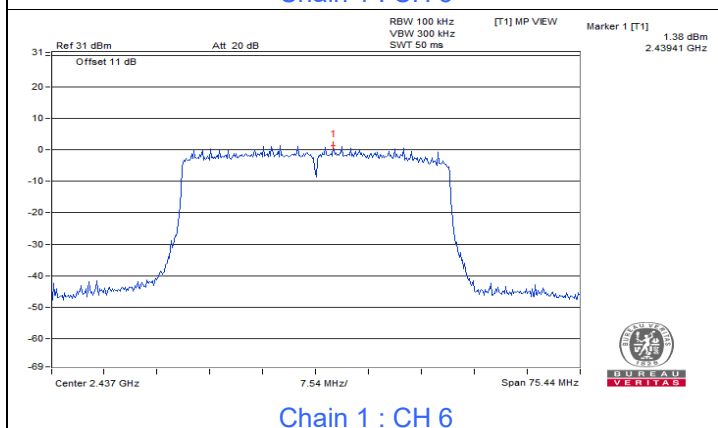
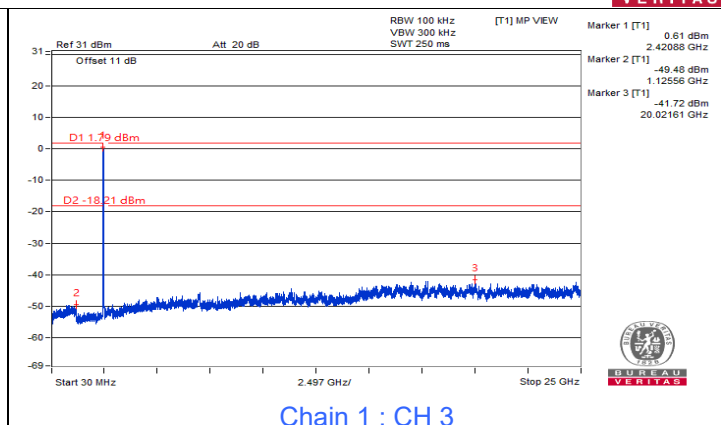
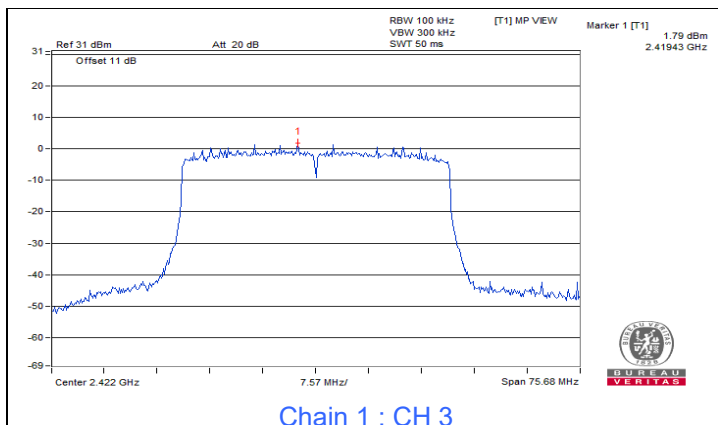
802.11ax (HE20)



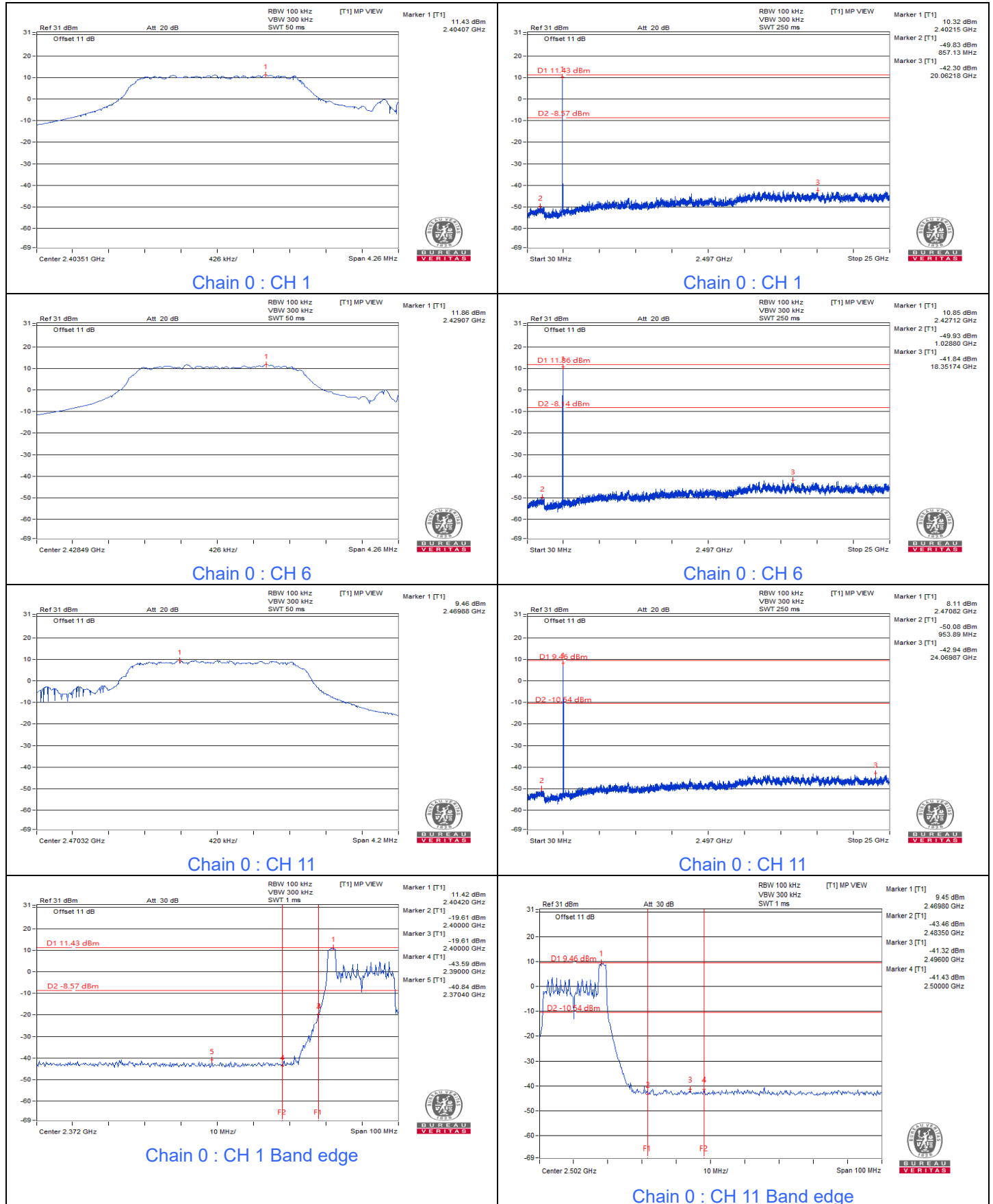


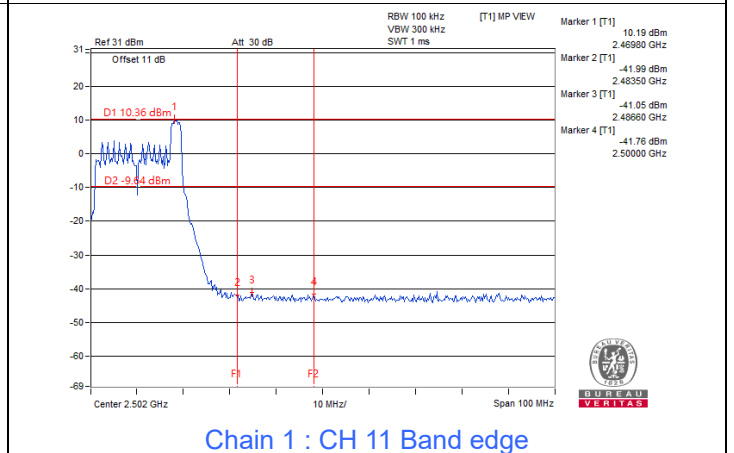
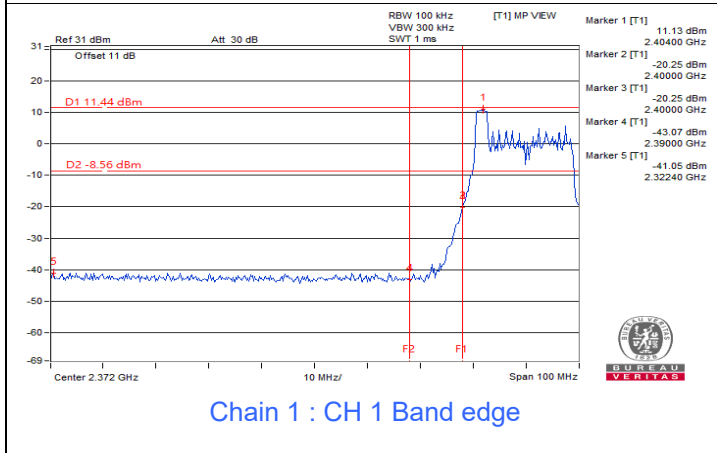
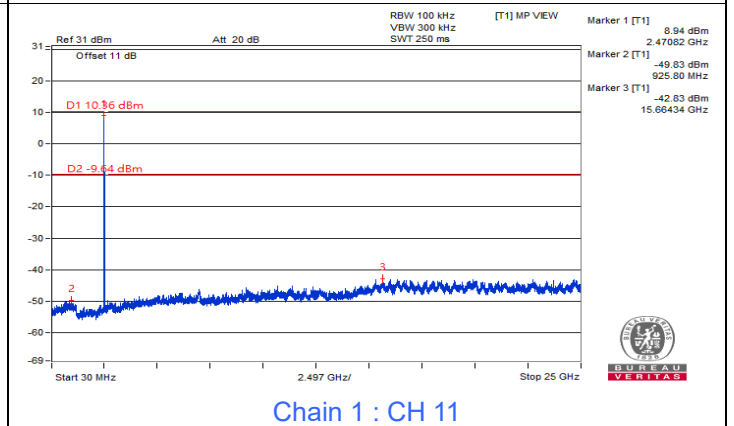
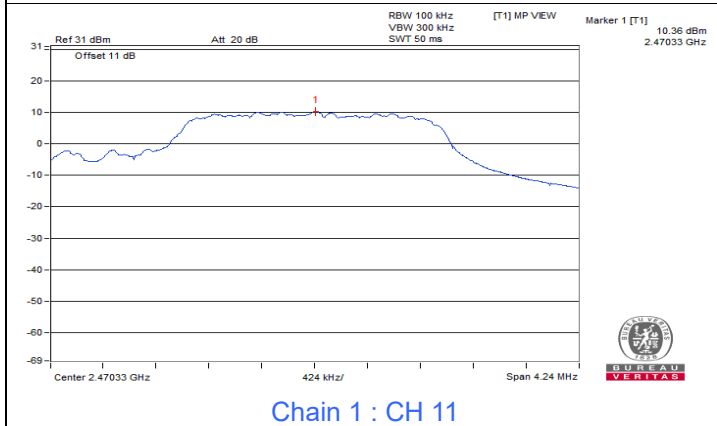
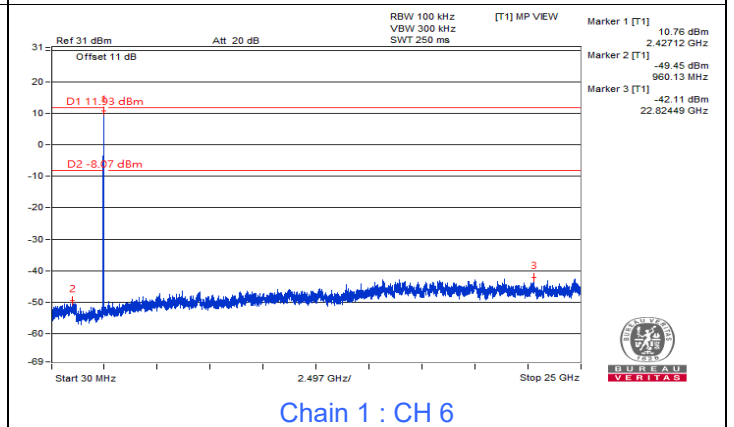
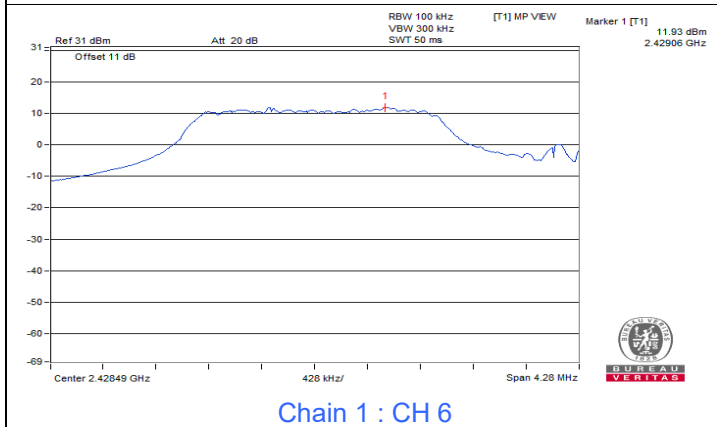
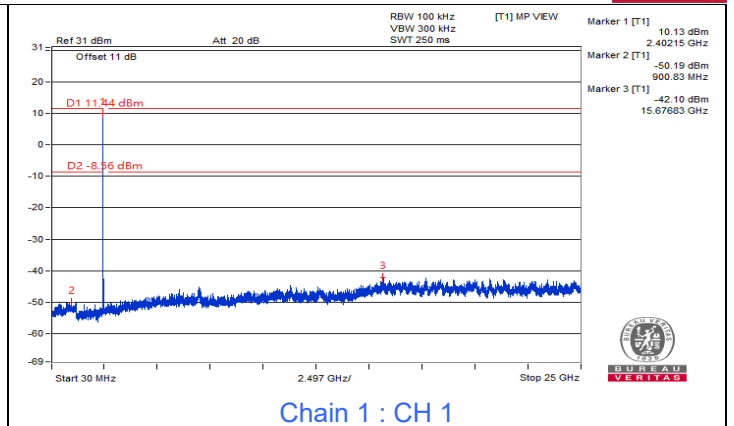
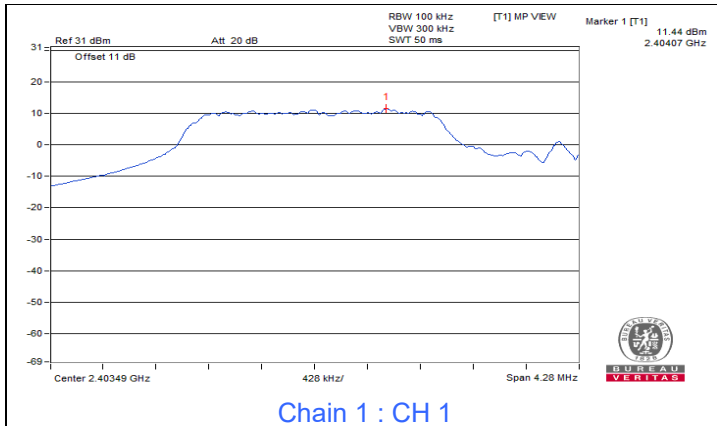
802.11ax (HE40)



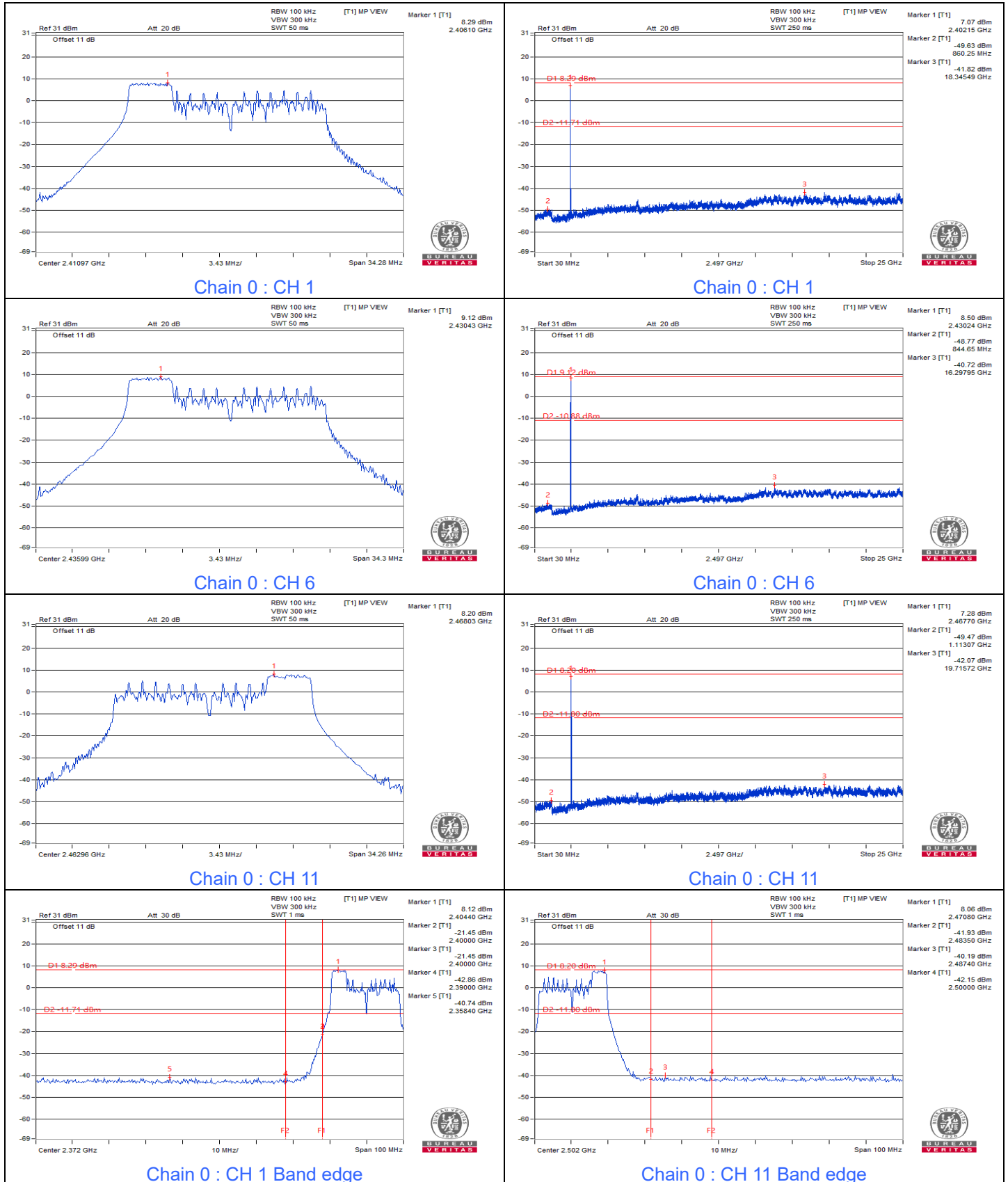


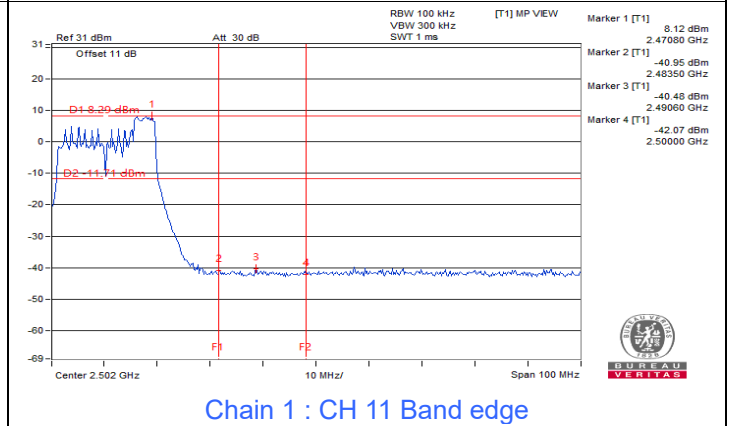
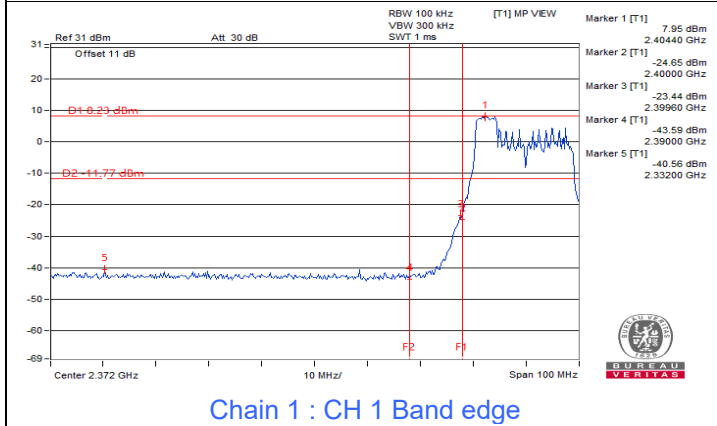
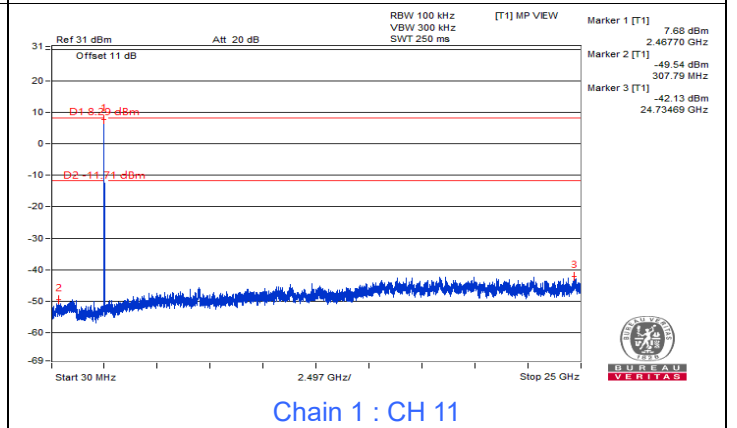
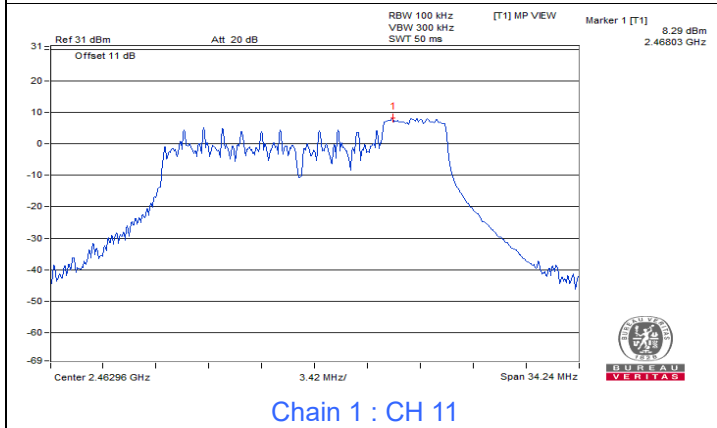
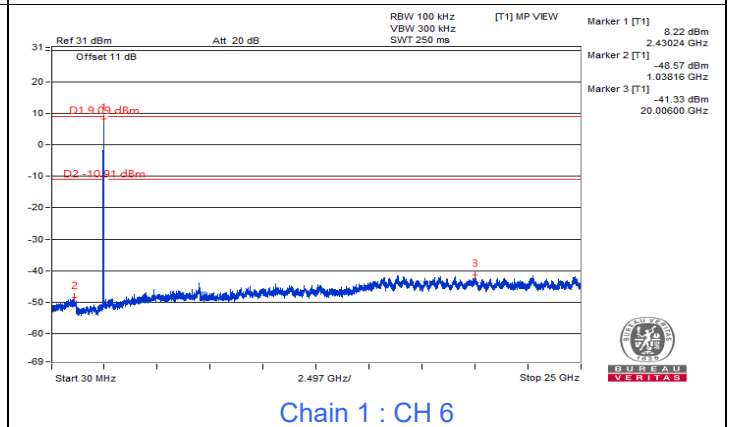
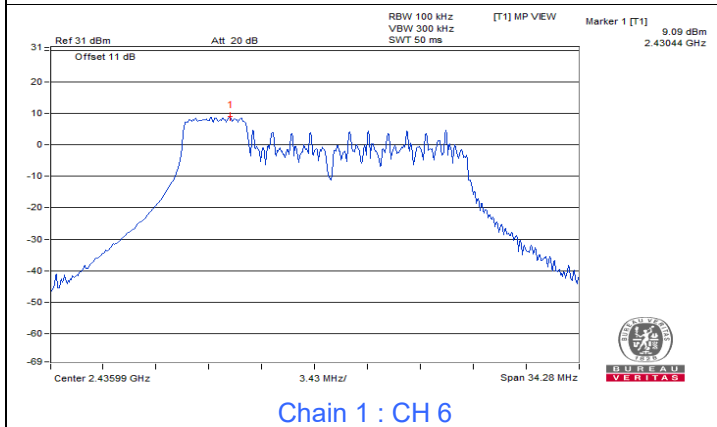
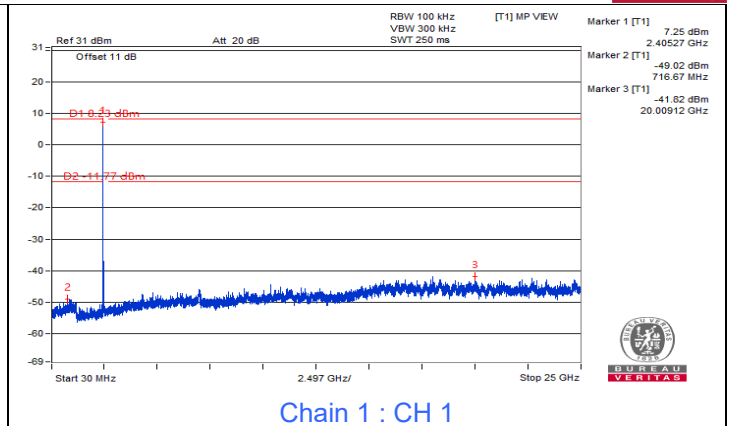
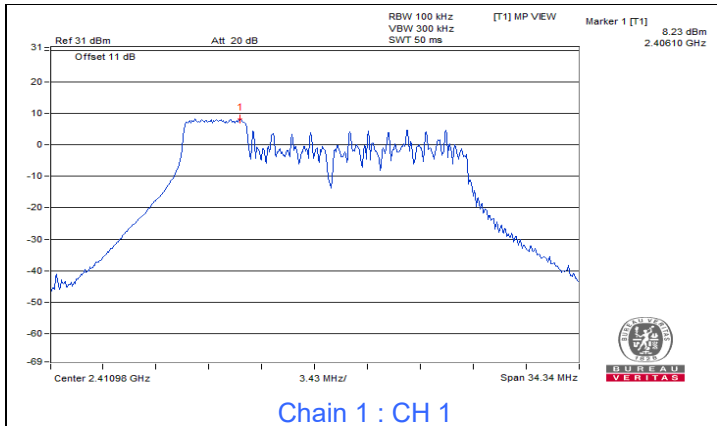
802.11ax (HE20) 26-tone RU



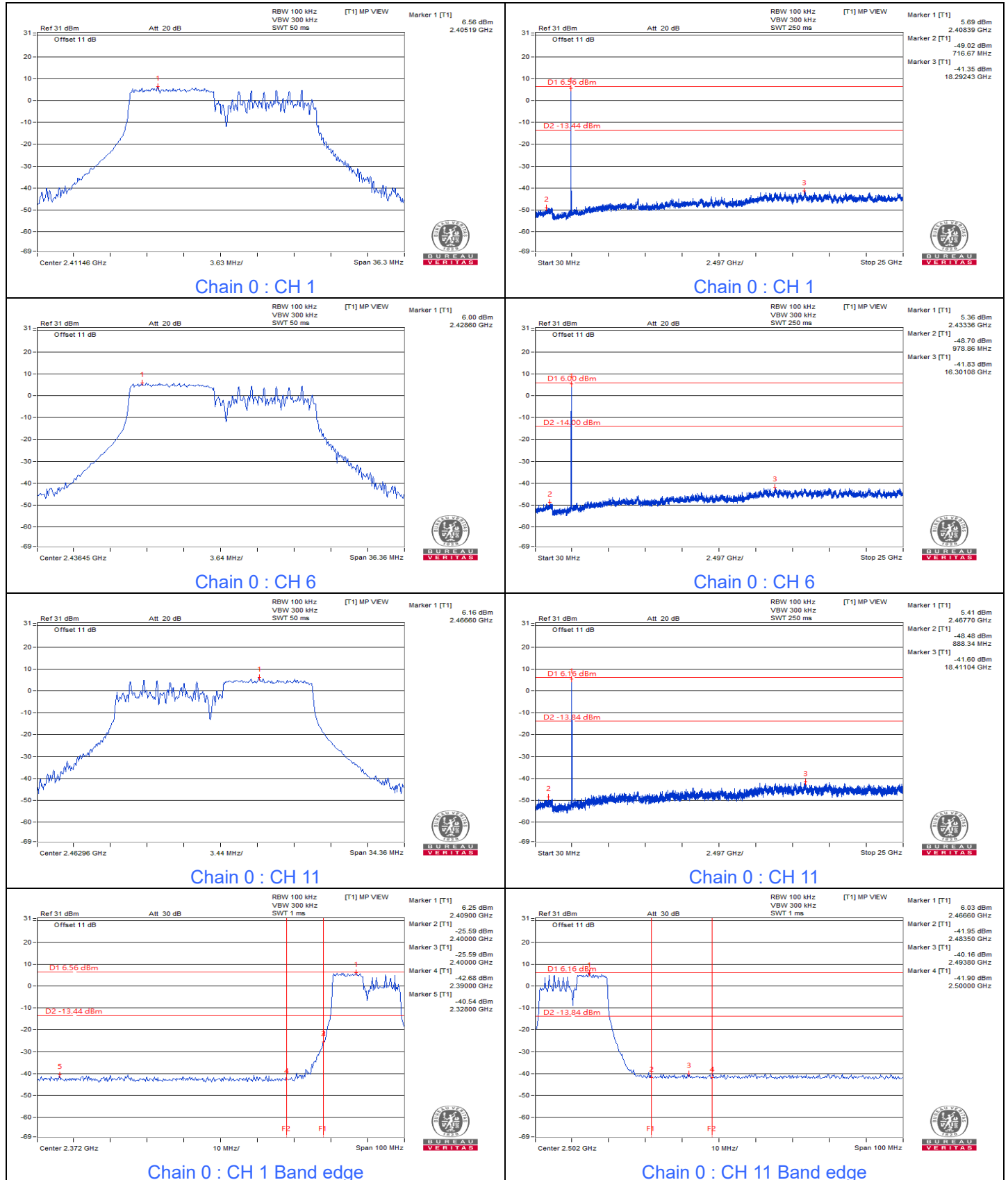


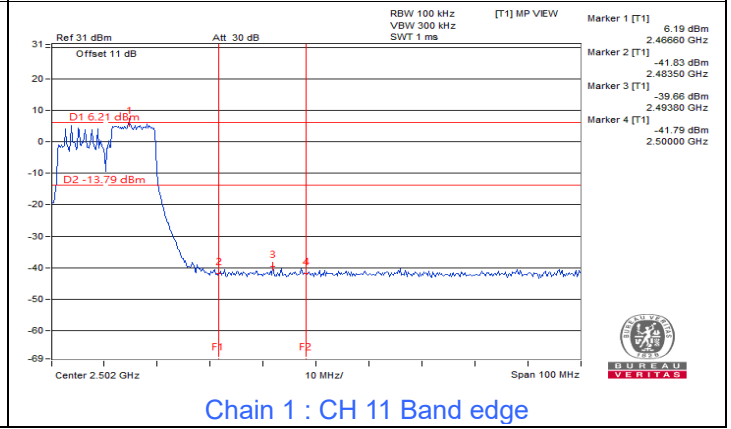
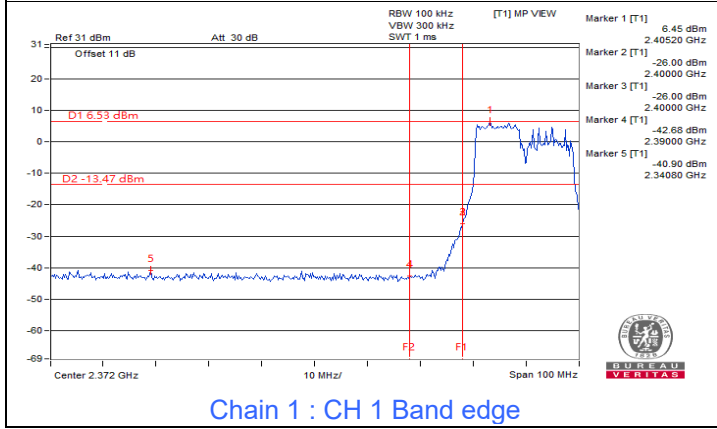
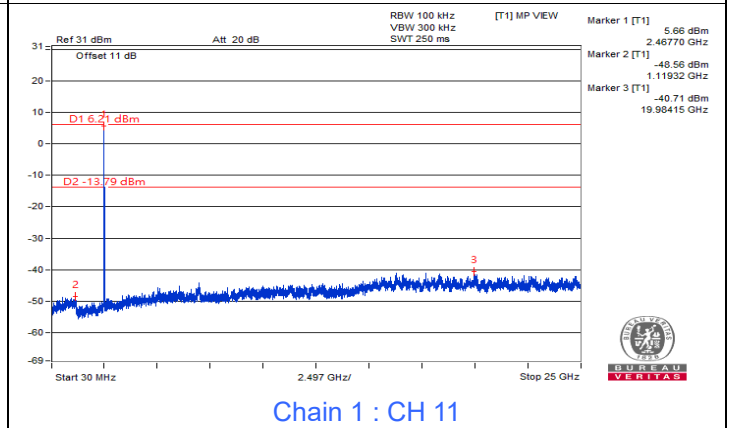
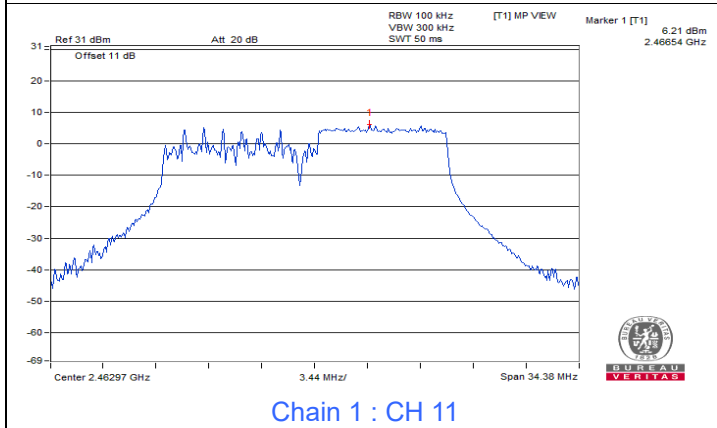
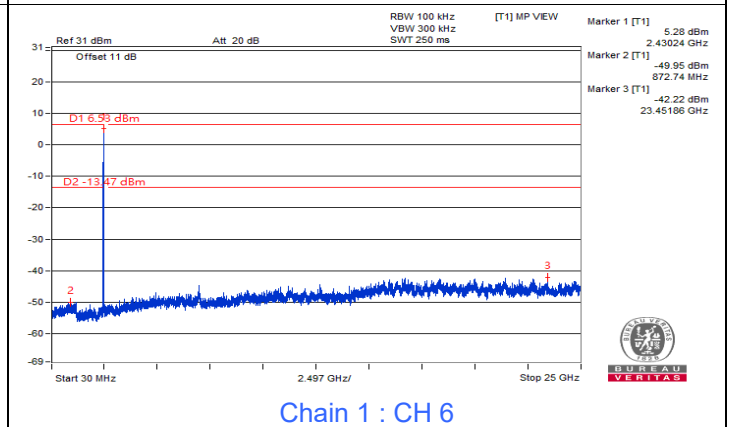
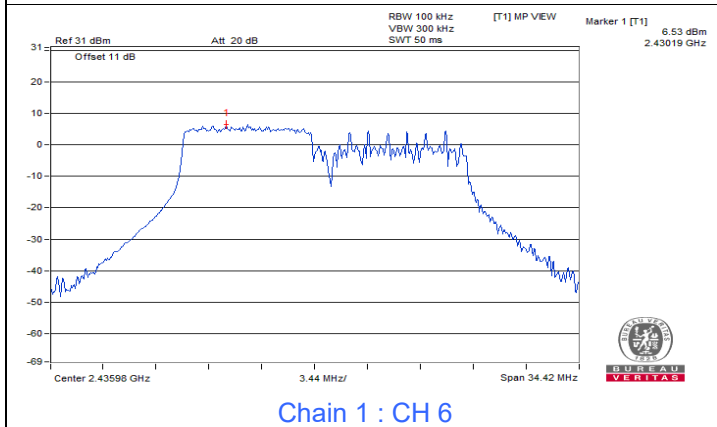
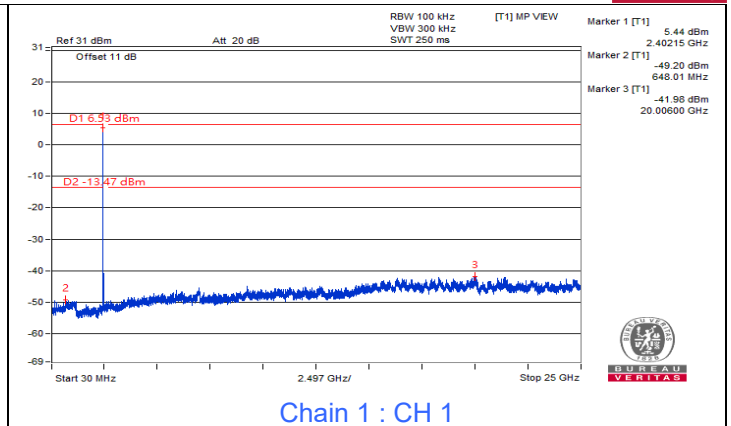
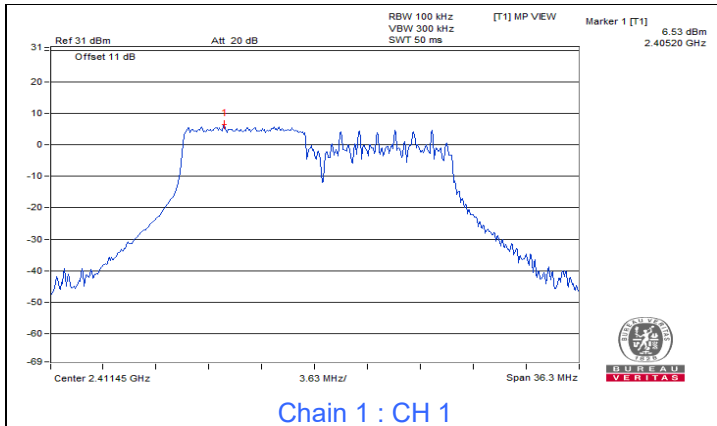
802.11ax (HE20) 52-tone RU





802.11ax (HE20) 106-tone RU





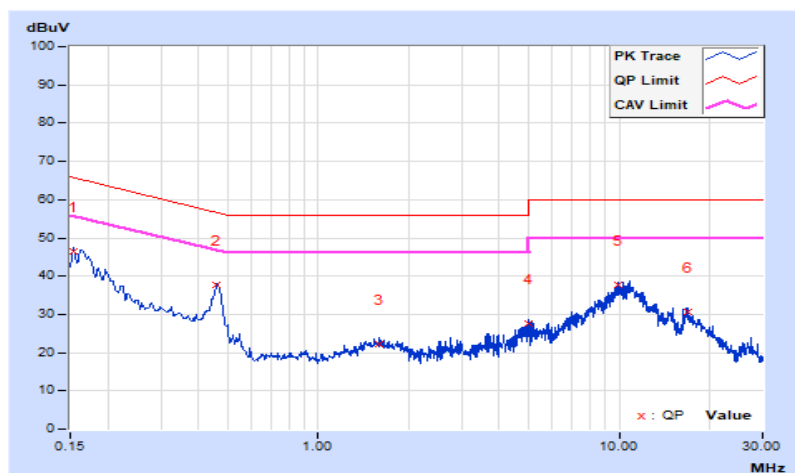
7.5 AC Power Conducted Emissions

RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	3.9 Vdc	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.15391	10.11	36.40	21.92	46.51	32.03	65.79	55.79	-19.28	-23.76
2	0.46059	10.24	27.61	19.04	37.85	29.28	56.68	46.68	-18.83	-17.40
3	1.59899	10.38	11.96	6.79	22.34	17.17	56.00	46.00	-33.66	-28.83
4	5.01956	10.54	17.19	9.79	27.73	20.33	60.00	50.00	-32.27	-29.67
5	9.94741	10.77	26.83	19.61	37.60	30.38	60.00	50.00	-22.40	-19.62
6	16.84251	10.89	19.63	13.86	30.52	24.75	60.00	50.00	-29.48	-25.25

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

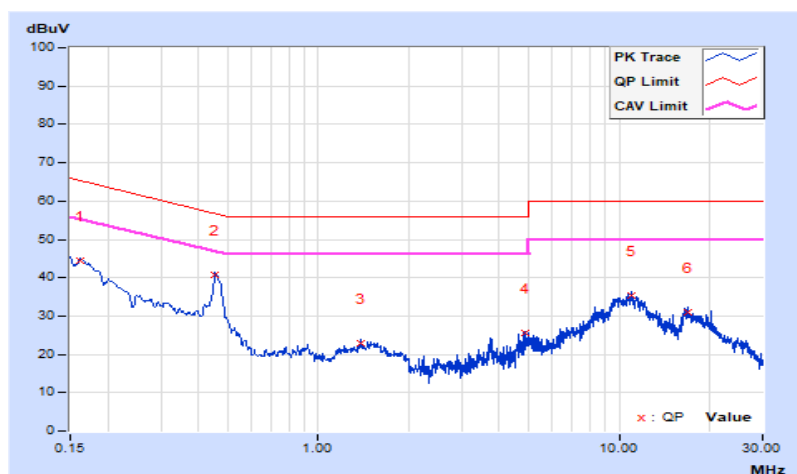


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	3.9 Vdc	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.16173	10.10	34.23	21.65	44.33	31.75	65.37	55.37	-21.04	-23.62
2	0.45506	10.17	30.57	22.25	40.74	32.42	56.78	46.78	-16.04	-14.36
3	1.37997	10.24	12.64	7.25	22.88	17.49	56.00	46.00	-33.12	-28.51
4	4.89023	10.42	15.03	7.89	25.45	18.31	56.00	46.00	-30.55	-27.69
5	11.03467	10.71	24.70	17.61	35.41	28.32	60.00	50.00	-24.59	-21.68
6	16.88553	10.81	20.11	13.41	30.92	24.22	60.00	50.00	-29.08	-25.78

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



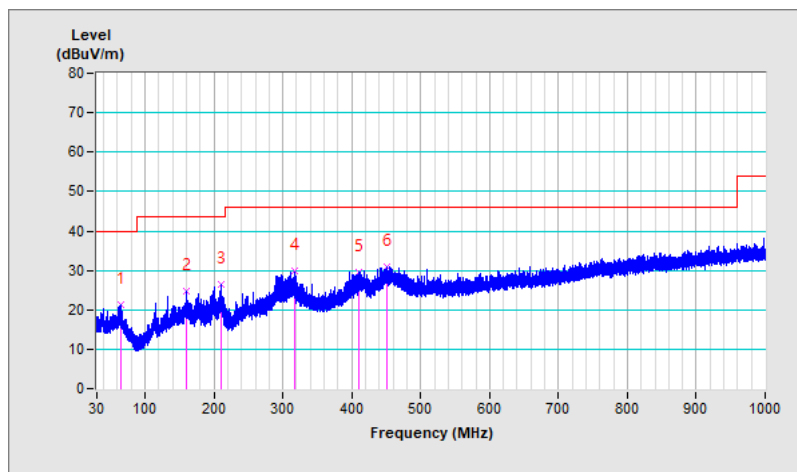
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	3.9 Vdc	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

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	64.29	21.2 QP	40.0	-18.8	1.86 H	199	30.9	-9.7
2	159.79	24.7 QP	43.5	-18.8	1.73 H	225	32.4	-7.7
3	210.42	26.3 QP	43.5	-17.2	1.98 H	97	36.5	-10.2
4	316.88	29.7 QP	46.0	-16.3	1.52 H	188	34.7	-5.0
5	411.21	29.6 QP	46.0	-16.4	1.34 H	188	32.9	-3.3
6	450.69	30.9 QP	46.0	-15.1	1.05 H	159	33.0	-2.1

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

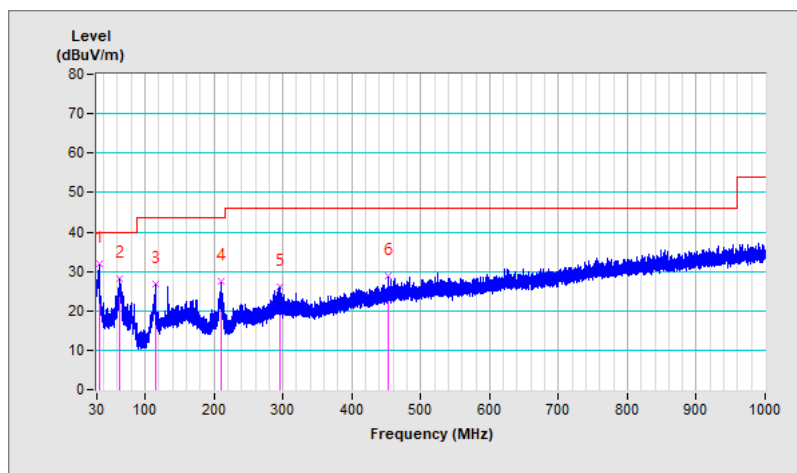


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	3.9 Vdc	Environmental Conditions	25.2 °C, 74.3% RH
Tested By	Jed Wu		

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	33.20	31.8 QP	40.0	-8.2	1.23 V	259	42.2	-10.4
2	62.16	28.0 QP	40.0	-12.0	1.08 V	286	37.5	-9.5
3	114.54	26.7 QP	43.5	-16.8	1.14 V	283	37.9	-11.2
4	209.84	27.3 QP	43.5	-16.2	1.62 V	223	37.5	-10.2
5	295.20	26.0 QP	46.0	-20.0	1.57 V	326	31.8	-5.8
6	452.19	28.7 QP	46.0	-17.3	1.49 V	107	30.8	-2.1

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	53.5 PK	74.0	-20.5	1.13 H	158	56.6	-3.1
2	2390.00	41.7 AV	54.0	-12.3	1.13 H	158	44.8	-3.1
3	*2412.00	109.5 PK			1.13 H	158	112.7	-3.2
4	*2412.00	106.3 AV			1.13 H	158	109.5	-3.2
5	4824.00	53.0 PK	74.0	-21.0	1.58 H	254	51.0	2.0
6	4824.00	49.0 AV	54.0	-5.0	1.58 H	254	47.0	2.0
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	52.1 PK	74.0	-21.9	1.74 V	146	55.2	-3.1
2	2390.00	42.0 AV	54.0	-12.0	1.74 V	146	45.1	-3.1
3	*2412.00	110.0 PK			1.74 V	146	113.2	-3.2
4	*2412.00	106.6 AV			1.74 V	146	109.8	-3.2
5	4824.00	55.6 PK	74.0	-18.4	3.51 V	241	53.6	2.0
6	4824.00	50.8 AV	54.0	-3.2	3.51 V	241	48.8	2.0

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	52.0 PK	74.0	-22.0	4.00 H	200	55.1	-3.1
2	2390.00	40.5 AV	54.0	-13.5	4.00 H	200	43.6	-3.1
3	*2437.00	109.0 PK			4.00 H	200	112.3	-3.3
4	*2437.00	106.0 AV			4.00 H	200	109.3	-3.3
5	2483.50	51.3 PK	74.0	-22.7	4.00 H	200	54.4	-3.1
6	2483.50	40.1 AV	54.0	-13.9	4.00 H	200	43.2	-3.1
7	4874.00	52.3 PK	74.0	-21.7	2.38 H	257	50.3	2.0
8	4874.00	48.5 AV	54.0	-5.5	2.38 H	257	46.5	2.0
9	7311.00	45.7 PK	74.0	-28.3	2.45 H	18	38.2	7.5
10	7311.00	40.8 AV	54.0	-13.2	2.45 H	18	33.3	7.5
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	52.5 PK	74.0	-21.5	2.70 V	196	55.6	-3.1
2	2390.00	40.8 AV	54.0	-13.2	2.70 V	196	43.9	-3.1
3	*2437.00	112.3 PK			2.70 V	196	115.6	-3.3
4	*2437.00	109.0 AV			2.70 V	196	112.3	-3.3
5	2483.50	52.1 PK	74.0	-21.9	2.70 V	196	55.2	-3.1
6	2483.50	40.6 AV	54.0	-13.4	2.70 V	196	43.7	-3.1
7	4874.00	55.8 PK	74.0	-18.2	3.80 V	272	53.8	2.0
8	4874.00	50.9 AV	54.0	-3.1	3.80 V	272	48.9	2.0
9	7311.00	48.1 PK	74.0	-25.9	2.58 V	222	40.6	7.5
10	7311.00	43.3 AV	54.0	-10.7	2.58 V	222	35.8	7.5

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	108.5 PK			4.00 H	218	111.6	-3.1
2	*2462.00	105.4 AV			4.00 H	218	108.5	-3.1
3	2483.50	53.0 PK	74.0	-21.0	4.00 H	218	56.1	-3.1
4	2483.50	41.3 AV	54.0	-12.7	4.00 H	218	44.4	-3.1
5	4924.00	52.2 PK	74.0	-21.8	2.36 H	257	50.1	2.1
6	4924.00	48.2 AV	54.0	-5.8	2.36 H	257	46.1	2.1
7	7386.00	45.7 PK	74.0	-28.3	2.50 H	17	38.2	7.5
8	7386.00	40.7 AV	54.0	-13.3	2.50 H	17	33.2	7.5
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	*2462.00	111.5 PK			2.10 V	169	114.6	-3.1
2	*2462.00	108.4 AV			2.10 V	169	111.5	-3.1
3	2483.50	54.5 PK	74.0	-19.5	2.10 V	169	57.6	-3.1
4	2483.50	41.9 AV	54.0	-12.1	2.10 V	169	45.0	-3.1
5	4924.00	55.4 PK	74.0	-18.6	3.84 V	268	53.3	2.1
6	4924.00	50.7 AV	54.0	-3.3	3.84 V	268	48.6	2.1
7	7386.00	47.6 PK	74.0	-26.4	2.59 V	221	40.1	7.5
8	7386.00	42.9 AV	54.0	-11.1	2.59 V	221	35.4	7.5

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 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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	55.3 PK	74.0	-18.7	1.19 H	160	58.4	-3.1
2	2390.00	42.3 AV	54.0	-11.7	1.19 H	160	45.4	-3.1
3	*2412.00	109.2 PK			1.19 H	160	112.4	-3.2
4	*2412.00	98.0 AV			1.19 H	160	101.2	-3.2
5	4824.00	45.2 PK	74.0	-28.8	1.13 H	152	43.2	2.0
6	4824.00	33.4 AV	54.0	-20.6	1.13 H	152	31.4	2.0
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	55.9 PK	74.0	-18.1	2.13 V	167	59.0	-3.1
2	2390.00	44.0 AV	54.0	-10.0	2.13 V	167	47.1	-3.1
3	*2412.00	110.5 PK			2.13 V	167	113.7	-3.2
4	*2412.00	99.5 AV			2.13 V	167	102.7	-3.2
5	4824.00	47.9 PK	74.0	-26.1	3.16 V	278	45.9	2.0
6	4824.00	35.8 AV	54.0	-18.2	3.16 V	278	33.8	2.0

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	53.0 PK	74.0	-21.0	1.22 H	160	56.1	-3.1
2	2390.00	43.0 AV	54.0	-11.0	1.22 H	160	46.1	-3.1
3	*2437.00	110.2 PK			1.22 H	160	113.5	-3.3
4	*2437.00	98.7 AV			1.22 H	160	102.0	-3.3
5	2483.50	52.4 PK	74.0	-21.6	1.22 H	160	55.5	-3.1
6	2483.50	43.1 AV	54.0	-10.9	1.22 H	160	46.2	-3.1
7	4874.00	44.8 PK	74.0	-29.2	1.11 H	150	42.8	2.0
8	4874.00	32.9 AV	54.0	-21.1	1.11 H	150	30.9	2.0
9	7311.00	43.3 PK	74.0	-30.7	1.47 H	255	35.8	7.5
10	7311.00	30.1 AV	54.0	-23.9	1.47 H	255	22.6	7.5
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	53.4 PK	74.0	-20.6	2.22 V	168	56.5	-3.1
2	2390.00	43.9 AV	54.0	-10.1	2.22 V	168	47.0	-3.1
3	*2437.00	111.7 PK			2.22 V	168	115.0	-3.3
4	*2437.00	99.8 AV			2.22 V	168	103.1	-3.3
5	2483.50	53.3 PK	74.0	-20.7	2.22 V	168	56.4	-3.1
6	2483.50	43.6 AV	54.0	-10.4	2.22 V	168	46.7	-3.1
7	4874.00	47.5 PK	74.0	-26.5	3.12 V	274	45.5	2.0
8	4874.00	35.5 AV	54.0	-18.5	3.12 V	274	33.5	2.0
9	7311.00	45.8 PK	74.0	-28.2	2.57 V	155	38.3	7.5
10	7311.00	32.5 AV	54.0	-21.5	2.57 V	155	25.0	7.5

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	108.0 PK			1.53 H	217	111.1	-3.1
2	*2462.00	97.0 AV			1.53 H	217	100.1	-3.1
3	2483.50	54.2 PK	74.0	-19.8	1.53 H	217	57.3	-3.1
4	2483.50	42.6 AV	54.0	-11.4	1.53 H	217	45.7	-3.1
5	4924.00	45.0 PK	74.0	-29.0	1.14 H	134	42.9	2.1
6	4924.00	33.0 AV	54.0	-21.0	1.14 H	134	30.9	2.1
7	7386.00	43.7 PK	74.0	-30.3	1.52 H	241	36.2	7.5
8	7386.00	30.4 AV	54.0	-23.6	1.52 H	241	22.9	7.5
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	*2462.00	111.4 PK			2.20 V	165	114.5	-3.1
2	*2462.00	99.4 AV			2.20 V	165	102.5	-3.1
3	2483.50	55.7 PK	74.0	-18.3	2.20 V	165	58.8	-3.1
4	2483.50	43.8 AV	54.0	-10.2	2.20 V	165	46.9	-3.1
5	4924.00	47.4 PK	74.0	-26.6	3.13 V	264	45.3	2.1
6	4924.00	35.3 AV	54.0	-18.7	3.13 V	264	33.2	2.1
7	7386.00	45.9 PK	74.0	-28.1	2.56 V	141	38.4	7.5
8	7386.00	32.4 AV	54.0	-21.6	2.56 V	141	24.9	7.5

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	56.8 PK	74.0	-17.2	1.32 H	161	59.9	-3.1
2	2390.00	43.4 AV	54.0	-10.6	1.32 H	161	46.5	-3.1
3	*2412.00	110.2 PK			1.32 H	161	113.4	-3.2
4	*2412.00	96.7 AV			1.32 H	161	99.9	-3.2
5	4824.00	44.5 PK	74.0	-29.5	1.05 H	140	42.5	2.0
6	4824.00	32.5 AV	54.0	-21.5	1.05 H	140	30.5	2.0
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	57.7 PK	74.0	-16.3	2.41 V	166	60.8	-3.1
2	2390.00	44.3 AV	54.0	-9.7	2.41 V	166	47.4	-3.1
3	*2412.00	110.5 PK			2.41 V	166	113.7	-3.2
4	*2412.00	99.3 AV			2.41 V	166	102.5	-3.2
5	4824.00	48.2 PK	74.0	-25.8	3.08 V	282	46.2	2.0
6	4824.00	35.9 AV	54.0	-18.1	3.08 V	282	33.9	2.0

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	52.8 PK	74.0	-21.2	2.20 H	170	55.9	-3.1
2	2390.00	40.7 AV	54.0	-13.3	2.20 H	170	43.8	-3.1
3	*2437.00	108.5 PK			2.20 H	170	111.8	-3.3
4	*2437.00	97.4 AV			2.20 H	170	100.7	-3.3
5	2483.50	52.6 PK	74.0	-21.4	2.20 H	170	55.7	-3.1
6	2483.50	40.3 AV	54.0	-13.7	2.20 H	170	43.4	-3.1
7	4874.00	44.7 PK	74.0	-29.3	1.04 H	131	42.7	2.0
8	4874.00	32.6 AV	54.0	-21.4	1.04 H	131	30.6	2.0
9	7311.00	42.7 PK	74.0	-31.3	1.47 H	233	35.2	7.5
10	7311.00	29.7 AV	54.0	-24.3	1.47 H	233	22.2	7.5
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	53.4 PK	74.0	-20.6	2.17 V	165	56.5	-3.1
2	2390.00	41.2 AV	54.0	-12.8	2.17 V	165	44.3	-3.1
3	*2437.00	110.8 PK			2.17 V	165	114.1	-3.3
4	*2437.00	99.6 AV			2.17 V	165	102.9	-3.3
5	2483.50	53.5 PK	74.0	-20.5	2.17 V	165	56.6	-3.1
6	2483.50	41.0 AV	54.0	-13.0	2.17 V	165	44.1	-3.1
7	4874.00	48.0 PK	74.0	-26.0	3.13 V	262	46.0	2.0
8	4874.00	35.7 AV	54.0	-18.3	3.13 V	262	33.7	2.0
9	7311.00	45.9 PK	74.0	-28.1	2.58 V	147	38.4	7.5
10	7311.00	32.6 AV	54.0	-21.4	2.58 V	147	25.1	7.5

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	110.4 PK			3.84 H	160	113.5	-3.1
2	*2462.00	96.7 AV			3.84 H	160	99.8	-3.1
3	2483.50	57.4 PK	74.0	-16.6	3.84 H	160	60.5	-3.1
4	2483.50	44.0 AV	54.0	-10.0	3.84 H	160	47.1	-3.1
5	4924.00	44.0 PK	74.0	-30.0	1.14 H	251	41.9	2.1
6	4924.00	32.0 AV	54.0	-22.0	1.14 H	251	29.9	2.1
7	7386.00	42.0 PK	74.0	-32.0	2.25 H	149	34.5	7.5
8	7386.00	29.0 AV	54.0	-25.0	2.25 H	149	21.5	7.5
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	*2462.00	112.4 PK			2.15 V	168	115.5	-3.1
2	*2462.00	99.0 AV			2.15 V	168	102.1	-3.1
3	2483.50	59.6 PK	74.0	-14.4	2.15 V	168	62.7	-3.1
4	2483.50	46.7 AV	54.0	-7.3	2.15 V	168	49.8	-3.1
5	4924.00	47.0 PK	74.0	-27.0	3.07 V	283	44.9	2.1
6	4924.00	35.0 AV	54.0	-19.0	3.07 V	283	32.9	2.1
7	7386.00	45.0 PK	74.0	-29.0	2.61 V	142	37.5	7.5
8	7386.00	31.9 AV	54.0	-22.1	2.61 V	142	24.4	7.5

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	58.9 PK	74.0	-15.1	1.29 H	161	62.0	-3.1
2	2390.00	47.0 AV	54.0	-7.0	1.29 H	161	50.1	-3.1
3	*2422.00	107.2 PK			1.29 H	161	110.4	-3.2
4	*2422.00	95.7 AV			1.29 H	161	98.9	-3.2
5	4844.00	44.0 PK	74.0	-30.0	1.08 H	146	42.0	2.0
6	4844.00	31.5 AV	54.0	-22.5	1.08 H	146	29.5	2.0
7	7266.00	43.0 PK	74.0	-31.0	1.46 H	256	35.3	7.7
8	7266.00	28.6 AV	54.0	-25.4	1.46 H	256	20.9	7.7
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	2390.00	60.4 PK	74.0	-13.6	2.38 V	166	63.5	-3.1
2	2390.00	48.0 AV	54.0	-6.0	2.38 V	166	51.1	-3.1
3	*2422.00	110.0 PK			2.38 V	166	113.2	-3.2
4	*2422.00	96.1 AV			2.38 V	166	99.3	-3.2
5	4844.00	47.0 PK	74.0	-27.0	3.10 V	255	45.0	2.0
6	4844.00	35.0 AV	54.0	-19.0	3.10 V	255	33.0	2.0
7	7266.00	45.8 PK	74.0	-28.2	2.31 V	190	38.1	7.7
8	7266.00	31.2 AV	54.0	-22.8	2.31 V	190	23.5	7.7

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	55.0 PK	74.0	-19.0	2.50 H	168	58.1	-3.1
2	2390.00	42.0 AV	54.0	-12.0	2.50 H	168	45.1	-3.1
3	*2437.00	107.9 PK			2.50 H	168	111.2	-3.3
4	*2437.00	94.8 AV			2.50 H	168	98.1	-3.3
5	2483.50	55.7 PK	74.0	-18.3	2.50 H	168	58.8	-3.1
6	2483.50	43.5 AV	54.0	-10.5	2.50 H	168	46.6	-3.1
7	4874.00	44.5 PK	74.0	-29.5	1.52 H	140	42.5	2.0
8	4874.00	32.5 AV	54.0	-21.5	1.52 H	140	30.5	2.0
9	7311.00	43.0 PK	74.0	-31.0	2.55 H	288	35.5	7.5
10	7311.00	29.9 AV	54.0	-24.1	2.55 H	288	22.4	7.5
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	55.8 PK	74.0	-18.2	2.25 V	166	58.9	-3.1
2	2390.00	42.9 AV	54.0	-11.1	2.25 V	166	46.0	-3.1
3	*2437.00	109.5 PK			2.25 V	166	112.8	-3.3
4	*2437.00	96.0 AV			2.25 V	166	99.3	-3.3
5	2483.50	56.1 PK	74.0	-17.9	2.25 V	166	59.2	-3.1
6	2483.50	44.1 AV	54.0	-9.9	2.25 V	166	47.2	-3.1
7	4874.00	46.1 PK	74.0	-27.9	3.08 V	285	44.1	2.0
8	4874.00	35.2 AV	54.0	-18.8	3.08 V	285	33.2	2.0
9	7311.00	45.0 PK	74.0	-29.0	2.55 V	158	37.5	7.5
10	7311.00	32.0 AV	54.0	-22.0	2.55 V	158	24.5	7.5

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)	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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	107.8 PK			1.21 H	160	110.9	-3.1
2	*2452.00	94.5 AV			1.21 H	160	97.6	-3.1
3	2483.50	59.7 PK	74.0	-14.3	1.21 H	160	62.8	-3.1
4	2483.50	48.3 AV	54.0	-5.7	1.21 H	160	51.4	-3.1
5	4904.00	45.0 PK	74.0	-29.0	1.12 H	158	42.9	2.1
6	4904.00	33.0 AV	54.0	-21.0	1.12 H	158	30.9	2.1
7	7356.00	43.2 PK	74.0	-30.8	1.49 H	263	35.7	7.5
8	7356.00	29.9 AV	54.0	-24.1	1.49 H	263	22.4	7.5
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	*2452.00	109.4 PK			2.18 V	165	112.5	-3.1
2	*2452.00	97.0 AV			2.18 V	165	100.1	-3.1
3	2483.50	61.3 PK	74.0	-12.7	2.18 V	165	64.4	-3.1
4	2483.50	49.5 AV	54.0	-4.5	2.18 V	165	52.6	-3.1
5	4904.00	47.7 PK	74.0	-26.3	3.12 V	281	45.6	2.1
6	4904.00	35.3 AV	54.0	-18.7	3.12 V	281	33.2	2.1
7	7356.00	45.1 PK	74.0	-28.9	2.53 V	147	37.6	7.5
8	7356.00	32.0 AV	54.0	-22.0	2.53 V	147	24.5	7.5

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 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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	64.8 PK	74.0	-9.2	1.00 H	356	67.9	-3.1
2	2390.00	43.0 AV	54.0	-11.0	1.00 H	356	46.1	-3.1
3	*2412.00	120.1 PK			1.00 H	356	123.3	-3.2
4	*2412.00	109.0 AV			1.00 H	356	112.2	-3.2
5	4824.00	53.4 PK	74.0	-20.6	2.55 H	336	51.4	2.0
6	4824.00	46.9 AV	54.0	-7.1	2.55 H	336	44.9	2.0
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	71.6 PK	74.0	-2.4	2.55 V	196	74.7	-3.1
2	2390.00	44.1 AV	54.0	-9.9	2.55 V	196	47.2	-3.1
3	*2412.00	122.7 PK			2.55 V	196	125.9	-3.2
4	*2412.00	112.5 AV			2.55 V	196	115.7	-3.2
5	4824.00	55.7 PK	74.0	-18.3	2.63 V	255	53.7	2.0
6	4824.00	48.7 AV	54.0	-5.3	2.63 V	255	46.7	2.0

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	52.9 PK	74.0	-21.1	2.50 H	360	56.0	-3.1
2	2390.00	42.1 AV	54.0	-11.9	2.50 H	360	45.2	-3.1
3	*2437.00	120.6 PK			2.50 H	360	123.9	-3.3
4	*2437.00	108.8 AV			2.50 H	360	112.1	-3.3
5	2483.50	53.7 PK	74.0	-20.3	2.50 H	360	56.8	-3.1
6	2483.50	40.3 AV	54.0	-13.7	2.50 H	360	43.4	-3.1
7	4874.00	54.2 PK	74.0	-19.8	2.58 H	334	52.2	2.0
8	4874.00	47.4 AV	54.0	-6.6	2.58 H	334	45.4	2.0
9	7311.00	52.9 PK	74.0	-21.1	3.20 H	145	45.4	7.5
10	7311.00	45.5 AV	54.0	-8.5	3.20 H	145	38.0	7.5
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	55.6 PK	74.0	-18.4	2.22 V	200	58.7	-3.1
2	2390.00	43.2 AV	54.0	-10.8	2.22 V	200	46.3	-3.1
3	*2437.00	122.2 PK			2.22 V	200	125.5	-3.3
4	*2437.00	112.1 AV			2.22 V	200	115.4	-3.3
5	2483.50	55.1 PK	74.0	-18.9	2.22 V	200	58.2	-3.1
6	2483.50	42.8 AV	54.0	-11.2	2.22 V	200	45.9	-3.1
7	4874.00	56.3 PK	74.0	-17.7	2.64 V	239	54.3	2.0
8	4874.00	49.2 AV	54.0	-4.8	2.64 V	239	47.2	2.0
9	7311.00	54.2 PK	74.0	-19.8	1.24 V	224	46.7	7.5
10	7311.00	47.5 AV	54.0	-6.5	1.24 V	224	40.0	7.5

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	119.5 PK			1.01 H	228	122.6	-3.1
2	*2462.00	107.9 AV			1.01 H	228	111.0	-3.1
3	2483.50	64.1 PK	74.0	-9.9	1.01 H	228	67.2	-3.1
4	2483.50	43.1 AV	54.0	-10.9	1.01 H	228	46.2	-3.1
5	4924.00	53.9 PK	74.0	-20.1	2.64 H	341	51.8	2.1
6	4924.00	47.3 AV	54.0	-6.7	2.64 H	341	45.2	2.1
7	7386.00	52.8 PK	74.0	-21.2	3.18 H	147	45.3	7.5
8	7386.00	45.2 AV	54.0	-8.8	3.18 H	147	37.7	7.5
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	*2462.00	122.9 PK			1.66 V	195	126.0	-3.1
2	*2462.00	111.5 AV			1.66 V	195	114.6	-3.1
3	2483.50	67.0 PK	74.0	-7.0	1.66 V	195	70.1	-3.1
4	2483.50	43.9 AV	54.0	-10.1	1.66 V	195	47.0	-3.1
5	4924.00	56.4 PK	74.0	-17.6	2.59 V	235	54.3	2.1
6	4924.00	49.0 AV	54.0	-5.0	2.59 V	235	46.9	2.1
7	7386.00	54.1 PK	74.0	-19.9	1.18 V	239	46.6	7.5
8	7386.00	47.4 AV	54.0	-6.6	1.18 V	239	39.9	7.5

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 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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	63.3 PK	74.0	-10.7	1.03 H	331	66.4	-3.1
2	2390.00	43.6 AV	54.0	-10.4	1.03 H	331	46.7	-3.1
3	*2412.00	120.5 PK			1.03 H	331	123.7	-3.2
4	*2412.00	108.5 AV			1.03 H	331	111.7	-3.2
5	4824.00	54.1 PK	74.0	-19.9	2.56 H	343	52.1	2.0
6	4824.00	47.0 AV	54.0	-7.0	2.56 H	343	45.0	2.0
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	65.8 PK	74.0	-8.2	1.50 V	159	68.9	-3.1
2	2390.00	43.8 AV	54.0	-10.2	1.50 V	159	46.9	-3.1
3	*2412.00	120.8 PK			1.50 V	159	124.0	-3.2
4	*2412.00	109.0 AV			1.50 V	159	112.2	-3.2
5	4824.00	56.5 PK	74.0	-17.5	2.65 V	254	54.5	2.0
6	4824.00	49.2 AV	54.0	-4.8	2.65 V	254	47.2	2.0

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	51.6 PK	74.0	-22.4	1.05 H	222	54.7	-3.1
2	2390.00	40.2 AV	54.0	-13.8	1.05 H	222	43.3	-3.1
3	*2437.00	107.8 PK			1.05 H	222	111.1	-3.3
4	*2437.00	104.8 AV			1.05 H	222	108.1	-3.3
5	2483.50	51.4 PK	74.0	-22.6	1.05 H	222	54.5	-3.1
6	2483.50	39.9 AV	54.0	-14.1	1.05 H	222	43.0	-3.1
7	4874.00	53.8 PK	74.0	-20.2	2.58 H	334	51.8	2.0
8	4874.00	47.1 AV	54.0	-6.9	2.58 H	334	45.1	2.0
9	7311.00	52.8 PK	74.0	-21.2	3.16 H	152	45.3	7.5
10	7311.00	45.1 AV	54.0	-8.9	3.16 H	152	37.6	7.5
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	55.9 PK	74.0	-18.1	1.55 V	160	59.0	-3.1
2	2390.00	43.7 AV	54.0	-10.3	1.55 V	160	46.8	-3.1
3	*2437.00	120.0 PK			1.55 V	160	123.3	-3.3
4	*2437.00	108.6 AV			1.55 V	160	111.9	-3.3
5	2483.50	55.4 PK	74.0	-18.6	1.55 V	160	58.5	-3.1
6	2483.50	42.3 AV	54.0	-11.7	1.55 V	160	45.4	-3.1
7	4874.00	56.4 PK	74.0	-17.6	2.65 V	254	54.4	2.0
8	4874.00	49.2 AV	54.0	-4.8	2.65 V	254	47.2	2.0
9	7311.00	54.6 PK	74.0	-19.4	1.26 V	238	47.1	7.5
10	7311.00	47.9 AV	54.0	-6.1	1.26 V	238	40.4	7.5

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	118.1 PK			1.01 H	230	121.2	-3.1
2	*2462.00	106.6 AV			1.01 H	230	109.7	-3.1
3	2483.50	65.7 PK	74.0	-8.3	1.01 H	230	68.8	-3.1
4	2483.50	42.9 AV	54.0	-11.1	1.01 H	230	46.0	-3.1
5	4924.00	54.1 PK	74.0	-19.9	2.54 H	348	52.0	2.1
6	4924.00	47.4 AV	54.0	-6.6	2.54 H	348	45.3	2.1
7	7386.00	52.7 PK	74.0	-21.3	3.25 H	156	45.2	7.5
8	7386.00	45.1 AV	54.0	-8.9	3.25 H	156	37.6	7.5
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	*2462.00	121.8 PK			2.57 V	182	124.9	-3.1
2	*2462.00	111.2 AV			2.57 V	182	114.3	-3.1
3	2483.50	69.2 PK	74.0	-4.8	2.57 V	182	72.3	-3.1
4	2483.50	44.6 AV	54.0	-9.4	2.57 V	182	47.7	-3.1
5	4924.00	56.4 PK	74.0	-17.6	2.66 V	246	54.3	2.1
6	4924.00	49.4 AV	54.0	-4.6	2.66 V	246	47.3	2.1
7	7386.00	54.8 PK	74.0	-19.2	1.26 V	236	47.3	7.5
8	7386.00	47.9 AV	54.0	-6.1	1.26 V	236	40.4	7.5

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 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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	64.3 PK	74.0	-9.7	1.04 H	332	67.4	-3.1
2	2390.00	43.1 AV	54.0	-10.9	1.04 H	332	46.2	-3.1
3	*2412.00	117.6 PK			1.04 H	332	120.8	-3.2
4	*2412.00	105.7 AV			1.04 H	332	108.9	-3.2
5	4824.00	53.9 PK	74.0	-20.1	2.61 H	335	51.9	2.0
6	4824.00	47.0 AV	54.0	-7.0	2.61 H	335	45.0	2.0
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	67.4 PK	74.0	-6.6	2.44 V	162	70.5	-3.1
2	2390.00	44.2 AV	54.0	-9.8	2.44 V	162	47.3	-3.1
3	*2412.00	119.7 PK			2.44 V	162	122.9	-3.2
4	*2412.00	107.5 AV			2.44 V	162	110.7	-3.2
5	4824.00	56.4 PK	74.0	-17.6	2.66 V	238	54.4	2.0
6	4824.00	49.6 AV	54.0	-4.4	2.66 V	238	47.6	2.0

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	54.3 PK	74.0	-19.7	1.25 H	222	57.4	-3.1
2	2390.00	41.5 AV	54.0	-12.5	1.25 H	222	44.6	-3.1
3	*2437.00	118.0 PK			1.25 H	222	121.3	-3.3
4	*2437.00	105.0 AV			1.25 H	222	108.3	-3.3
5	2483.50	53.9 PK	74.0	-20.1	1.25 H	222	57.0	-3.1
6	2483.50	40.3 AV	54.0	-13.7	1.25 H	222	43.4	-3.1
7	4874.00	53.7 PK	74.0	-20.3	2.55 H	332	51.7	2.0
8	4874.00	46.9 AV	54.0	-7.1	2.55 H	332	44.9	2.0
9	7311.00	53.1 PK	74.0	-20.9	3.19 H	151	45.6	7.5
10	7311.00	45.8 AV	54.0	-8.2	3.19 H	151	38.3	7.5
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	56.0 PK	74.0	-18.0	2.25 V	170	59.1	-3.1
2	2390.00	43.8 AV	54.0	-10.2	2.25 V	170	46.9	-3.1
3	*2437.00	119.4 PK			2.25 V	170	122.7	-3.3
4	*2437.00	107.1 AV			2.25 V	170	110.4	-3.3
5	2483.50	55.5 PK	74.0	-18.5	2.25 V	170	58.6	-3.1
6	2483.50	42.4 AV	54.0	-11.6	2.25 V	170	45.5	-3.1
7	4874.00	56.4 PK	74.0	-17.6	2.63 V	239	54.4	2.0
8	4874.00	49.4 AV	54.0	-4.6	2.63 V	239	47.4	2.0
9	7311.00	53.9 PK	74.0	-20.1	1.27 V	210	46.4	7.5
10	7311.00	47.5 AV	54.0	-6.5	1.27 V	210	40.0	7.5

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 (System)	3.9 Vdc	Environmental Conditions	22 °C, 68% RH
Tested By	Roy Mai		

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	118.6 PK			1.10 H	328	121.7	-3.1
2	*2462.00	105.5 AV			1.10 H	328	108.6	-3.1
3	2483.50	68.3 PK	74.0	-5.7	1.10 H	328	71.4	-3.1
4	2483.50	43.3 AV	54.0	-10.7	1.10 H	328	46.4	-3.1
5	4924.00	53.8 PK	74.0	-20.2	2.61 H	333	51.7	2.1
6	4924.00	47.3 AV	54.0	-6.7	2.61 H	333	45.2	2.1
7	7386.00	53.1 PK	74.0	-20.9	3.25 H	156	45.6	7.5
8	7386.00	45.9 AV	54.0	-8.1	3.25 H	156	38.4	7.5
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	*2462.00	119.5 PK			2.55 V	183	122.6	-3.1
2	*2462.00	107.9 AV			2.55 V	183	111.0	-3.1
3	2483.50	70.4 PK	74.0	-3.6	2.55 V	183	73.5	-3.1
4	2483.50	43.6 AV	54.0	-10.4	2.55 V	183	46.7	-3.1
5	4924.00	56.1 PK	74.0	-17.9	2.70 V	244	54.0	2.1
6	4924.00	48.8 AV	54.0	-5.2	2.70 V	244	46.7	2.1
7	7386.00	54.2 PK	74.0	-19.8	1.21 V	237	46.7	7.5
8	7386.00	47.6 AV	54.0	-6.4	1.21 V	237	40.1	7.5

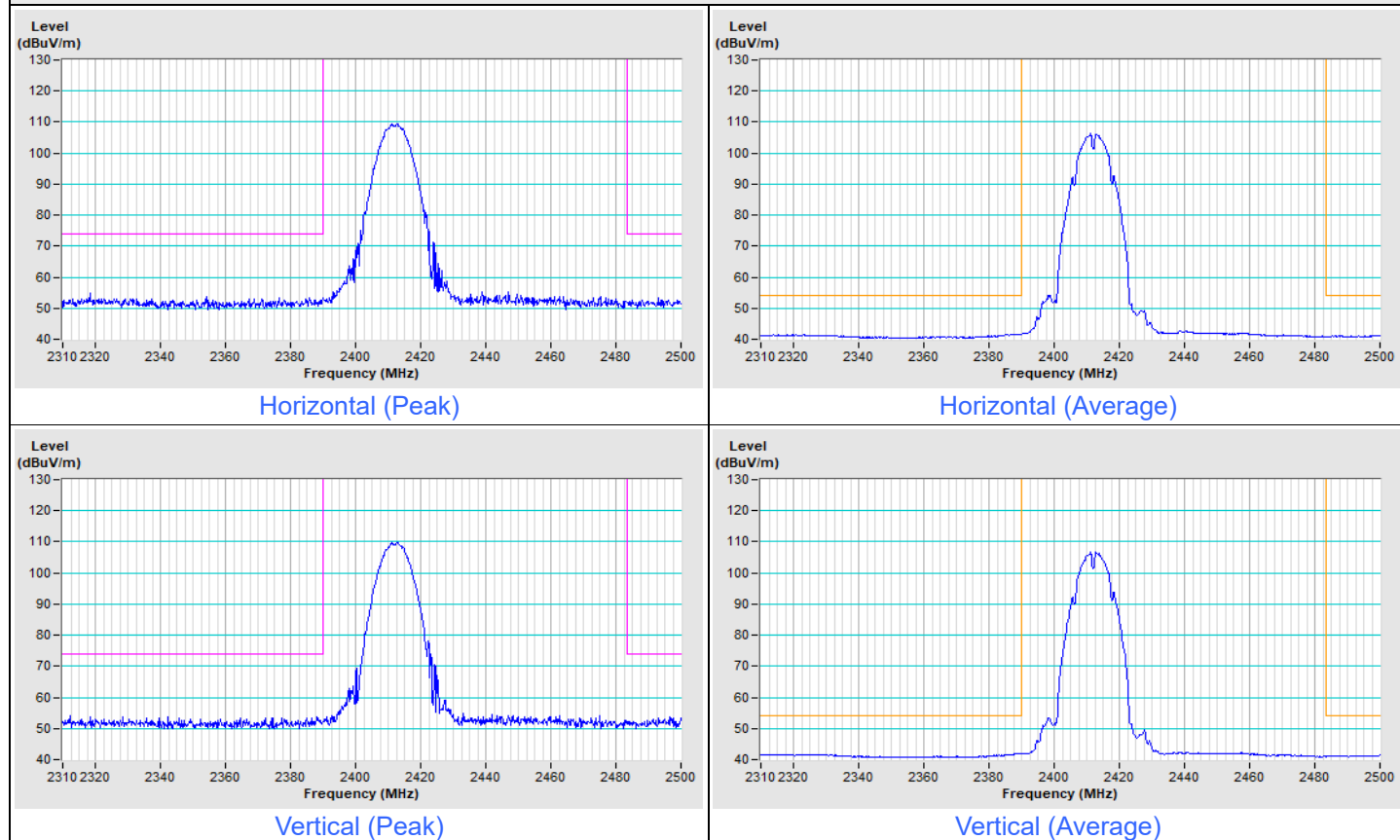
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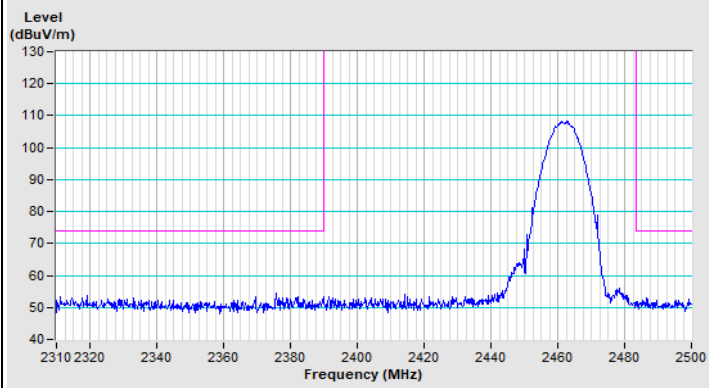
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

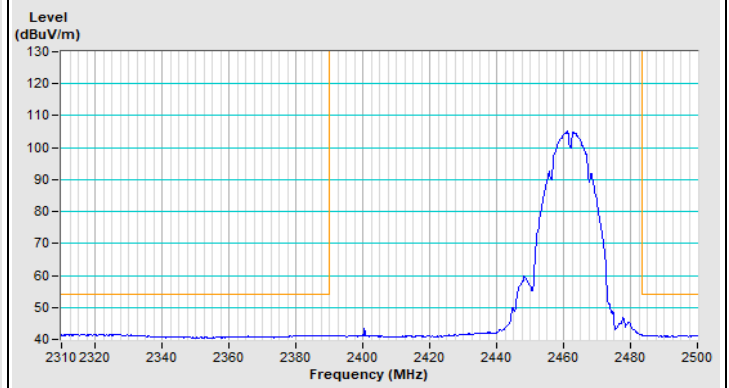
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11b Channel 1

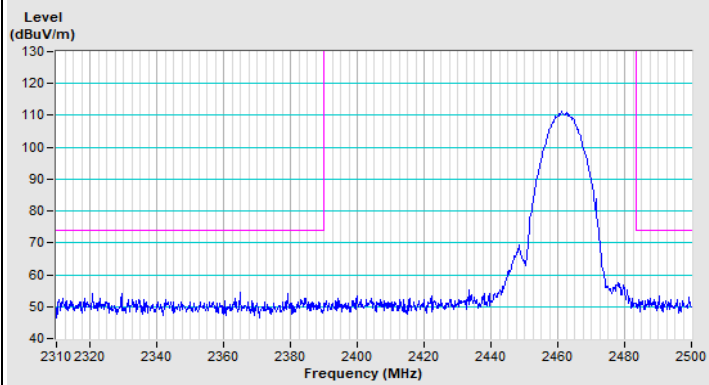


802.11b Channel 11

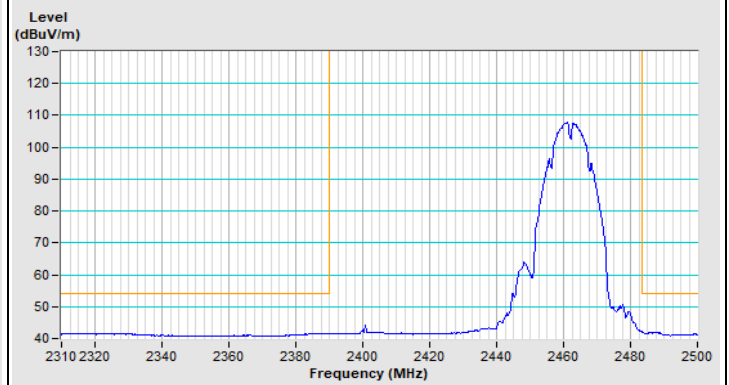
Horizontal (Peak)



Horizontal (Average)



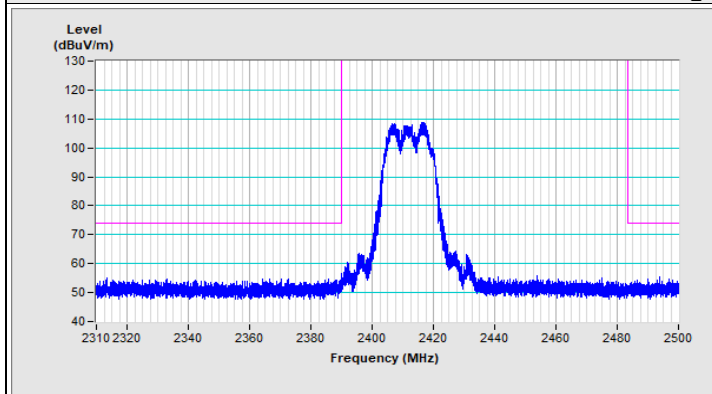
Vertical (Peak)



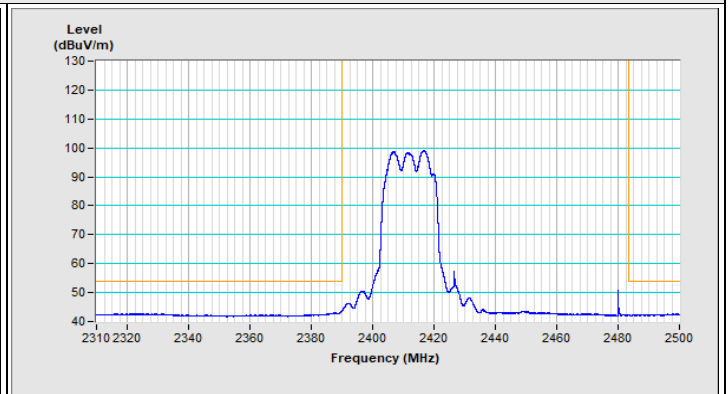
Vertical (Average)

Frequency Range	2.31 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
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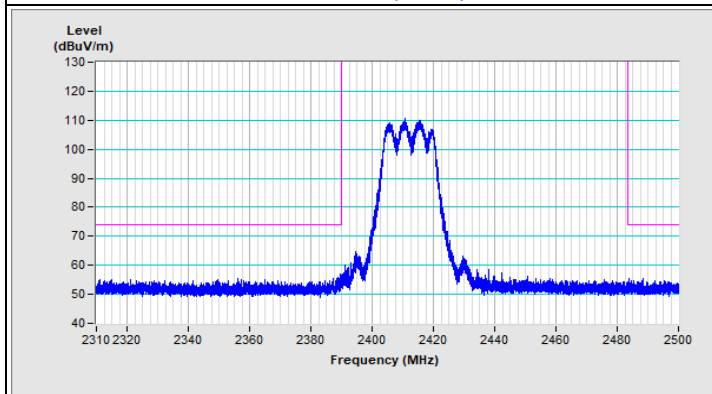
802.11g Channel 1



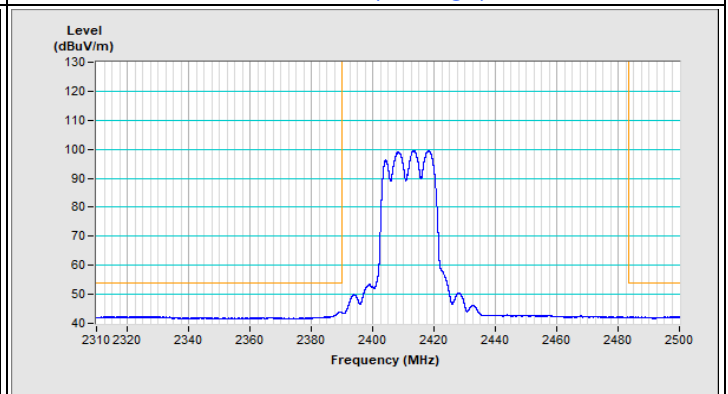
Horizontal (Peak)



Horizontal (Average)

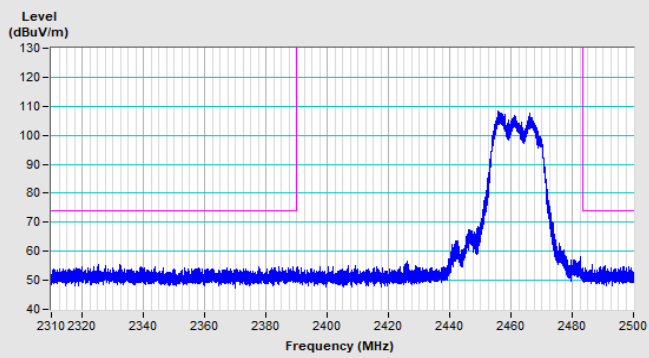


Vertical (Peak)

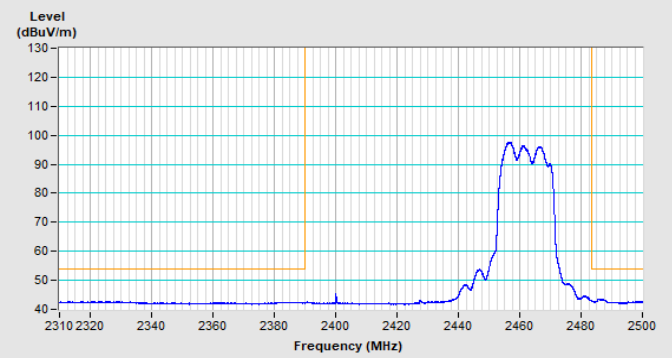


Vertical (Average)

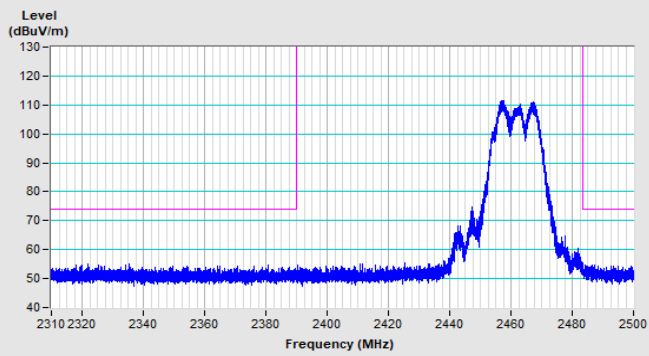
802.11g Channel 11



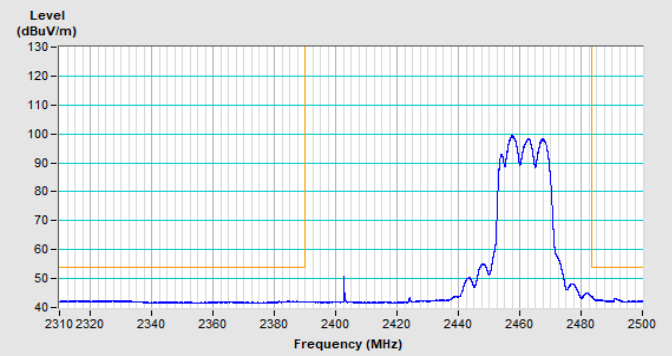
Horizontal (Peak)



Horizontal (Average)



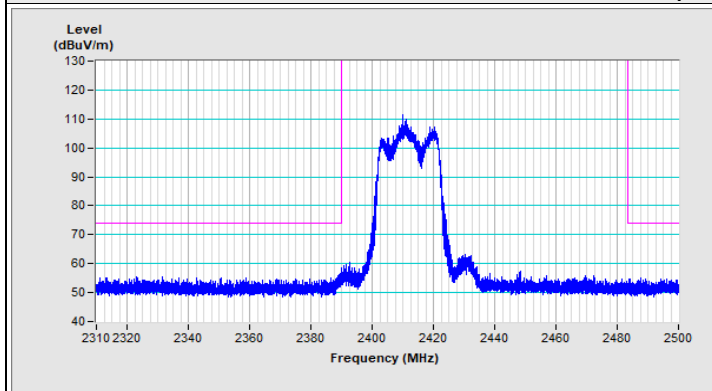
Vertical (Peak)



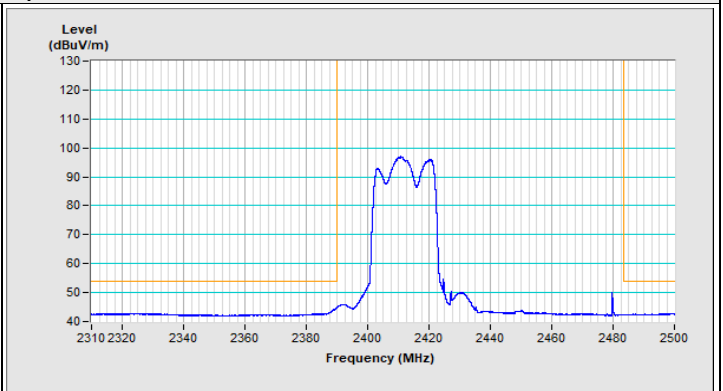
Vertical (Average)

Frequency Range	2.31 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
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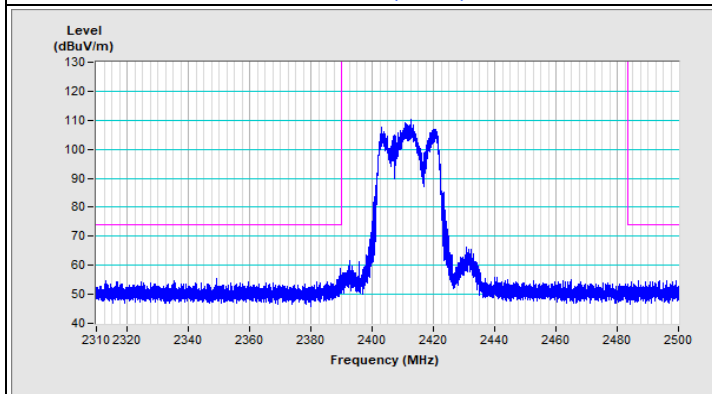
802.11ax (HE20) Channel 1



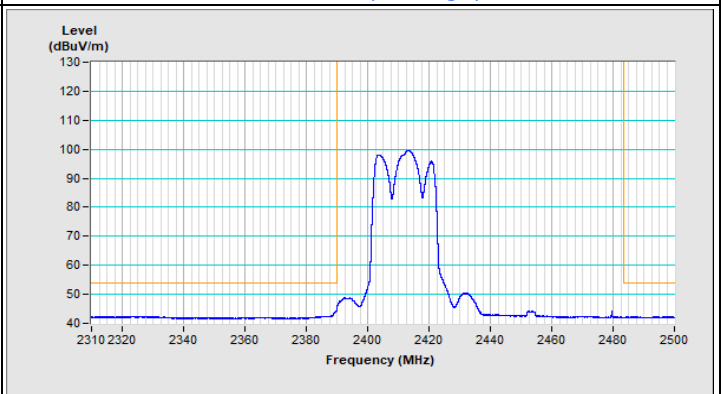
Horizontal (Peak)



Horizontal (Average)

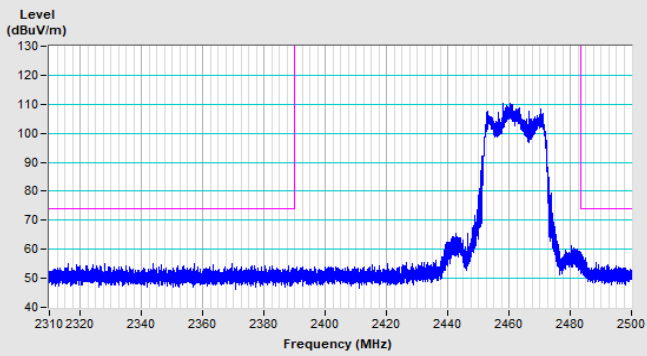


Vertical (Peak)

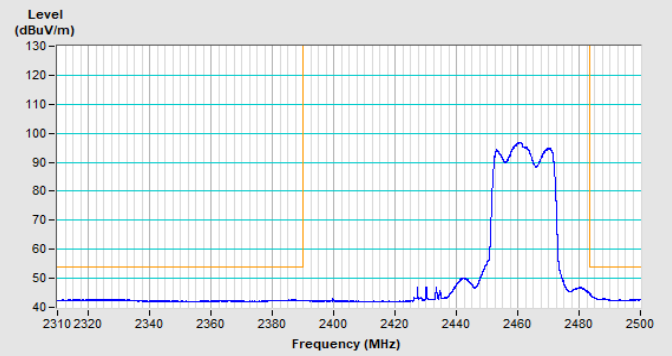


Vertical (Average)

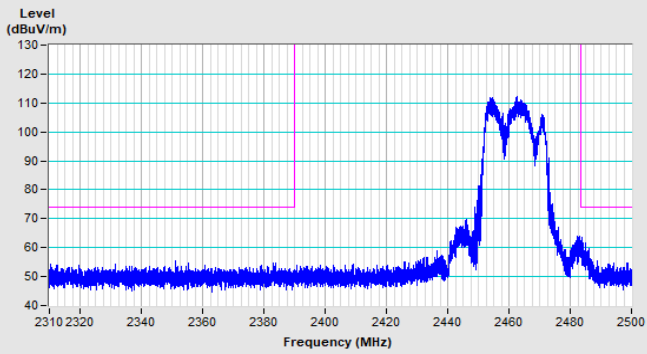
802.11ax (HE20) Channel 11



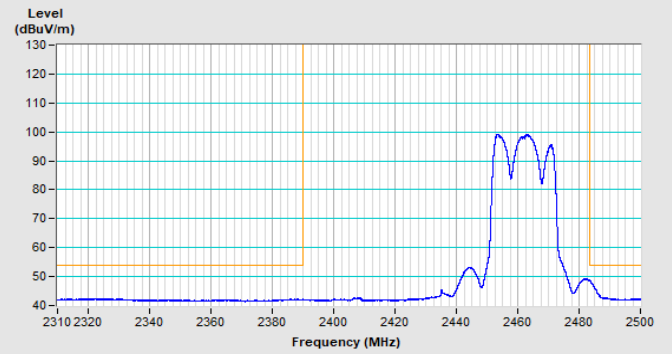
Horizontal (Peak)



Horizontal (Average)



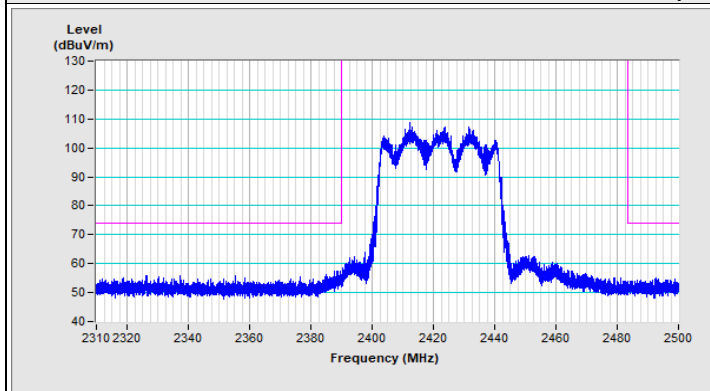
Vertical (Peak)



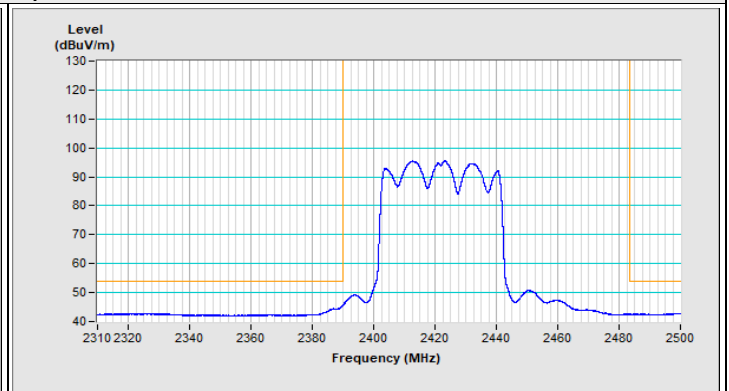
Vertical (Average)

Frequency Range	2.31 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
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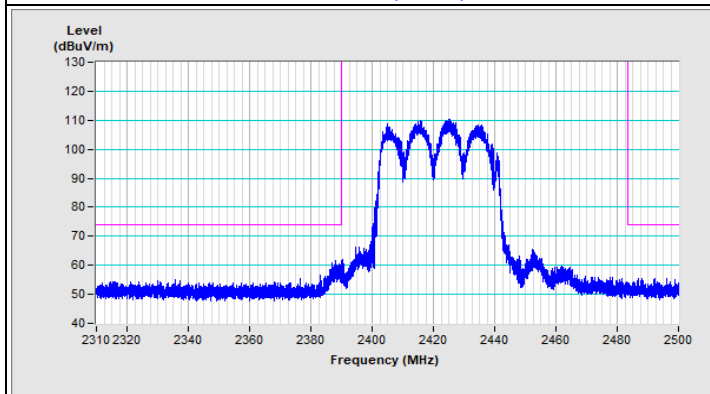
802.11ax (HE40) Channel 3



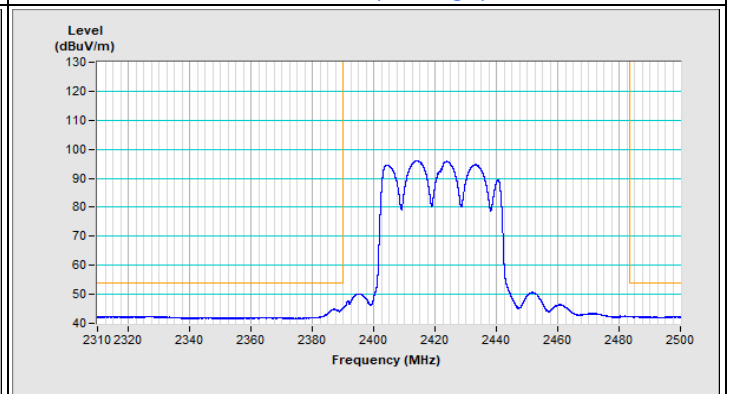
Horizontal (Peak)



Horizontal (Average)

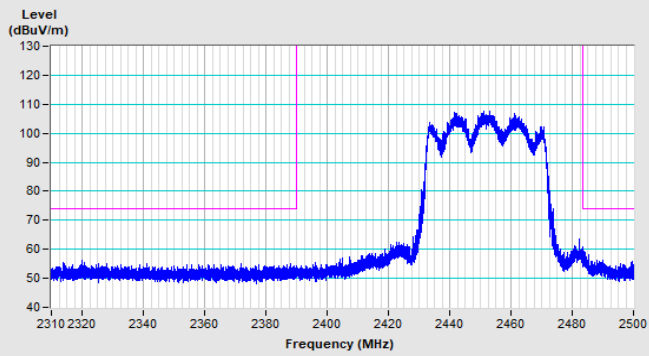


Vertical (Peak)

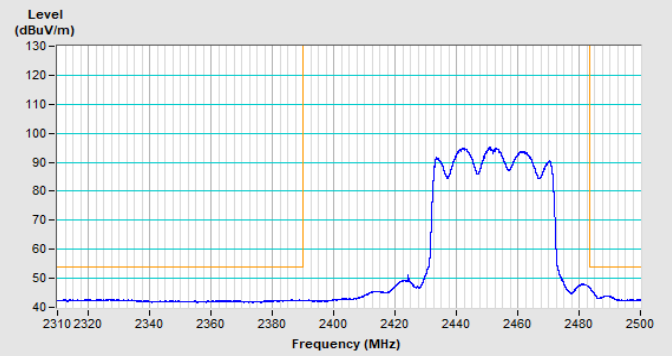


Vertical (Average)

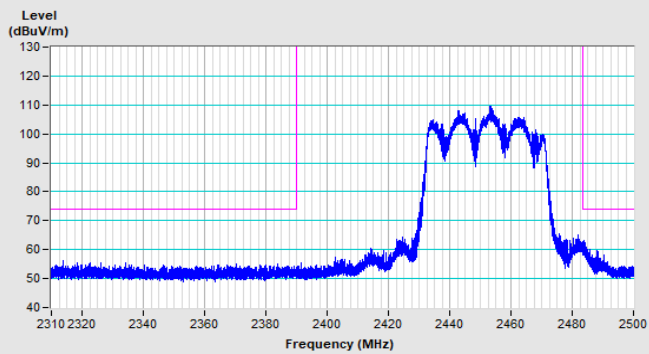
802.11ax (HE40) Channel 9



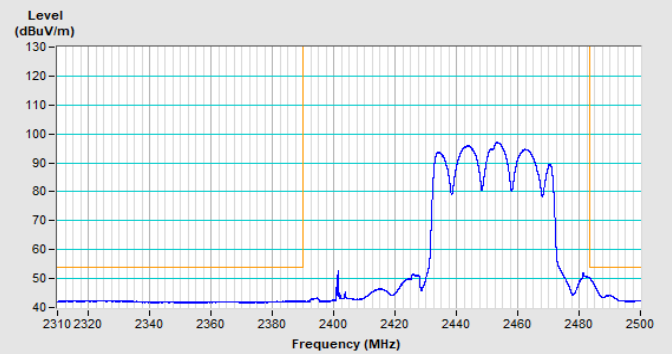
Horizontal (Peak)



Horizontal (Average)



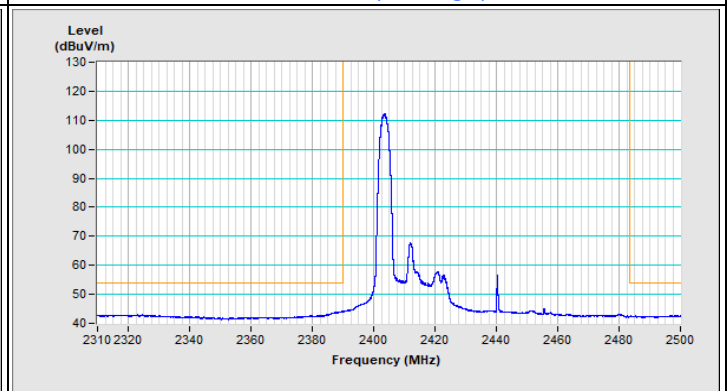
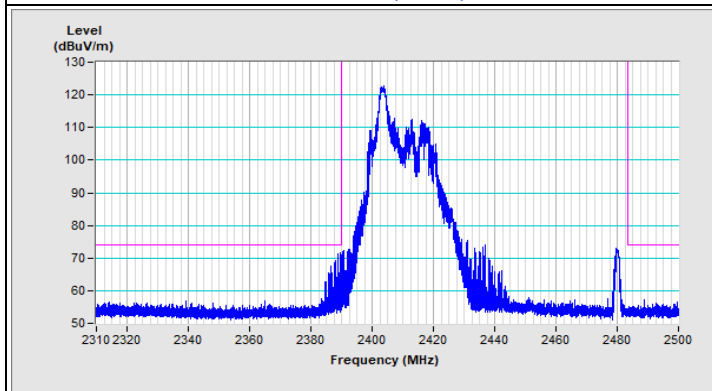
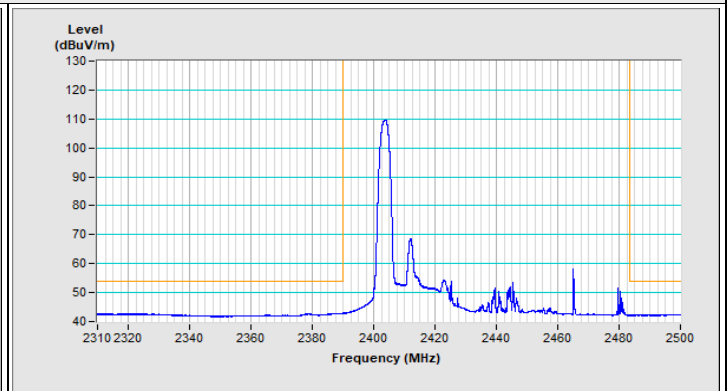
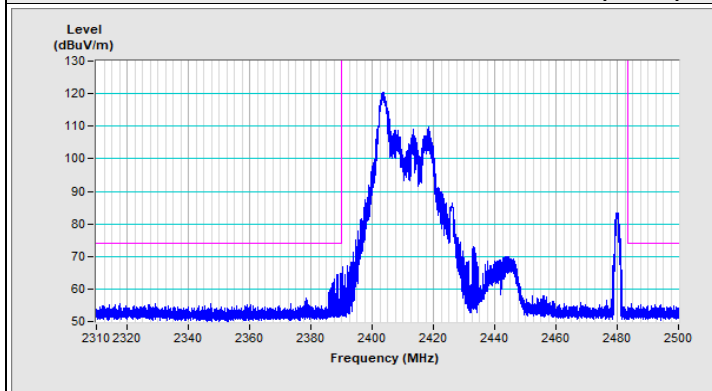
Vertical (Peak)



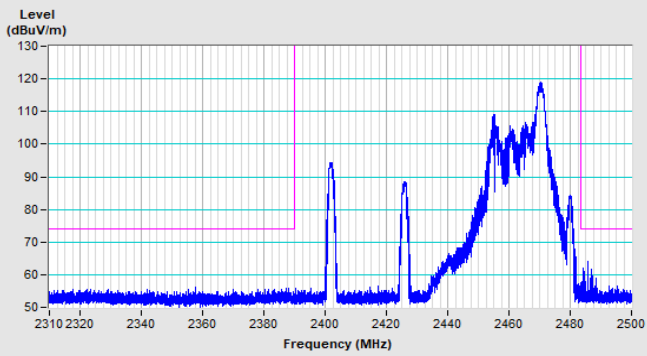
Vertical (Average)

Frequency Range	2.31 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
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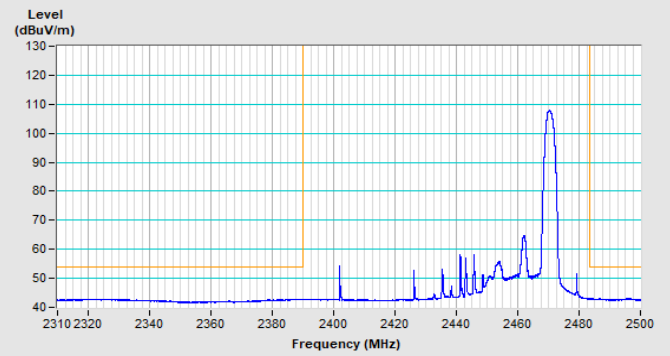
802.11ax (HE20) 26-tone RU Channel 1



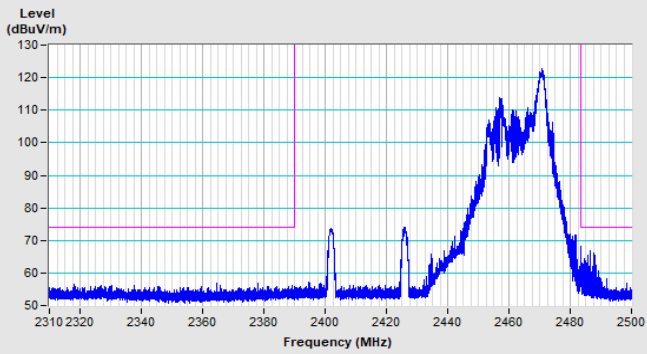
802.11ax (HE20) 26-tone RU Channel 11



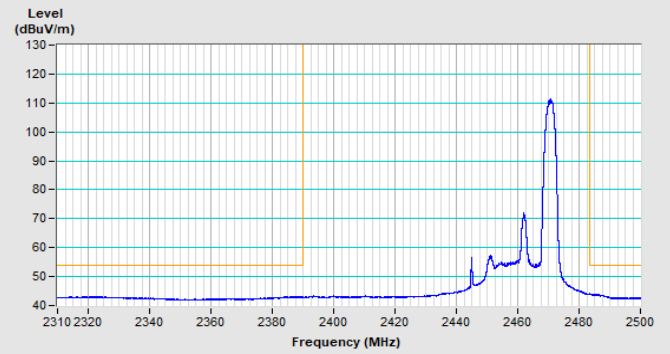
Horizontal (Peak)



Horizontal (Average)



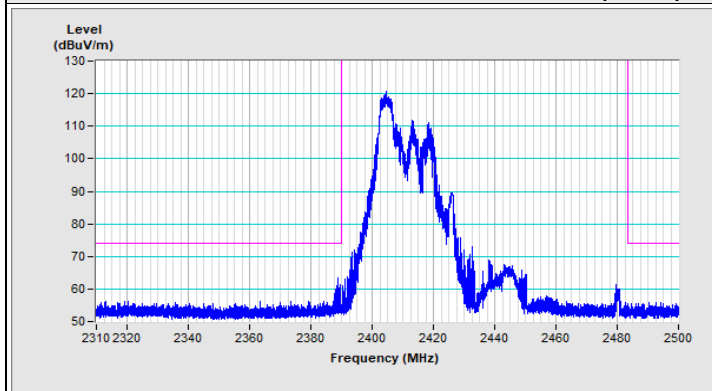
Vertical (Peak)



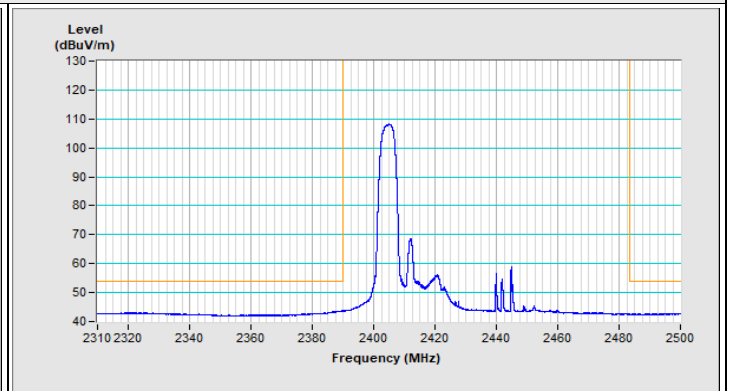
Vertical (Average)

Frequency Range	2.31 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
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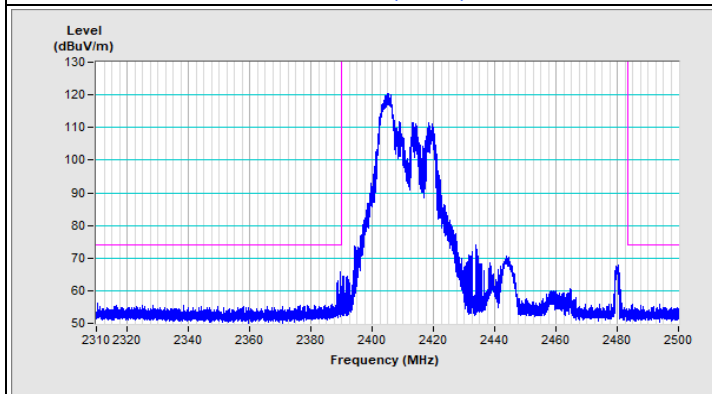
802.11ax (HE20) 52-tone RU Channel 1



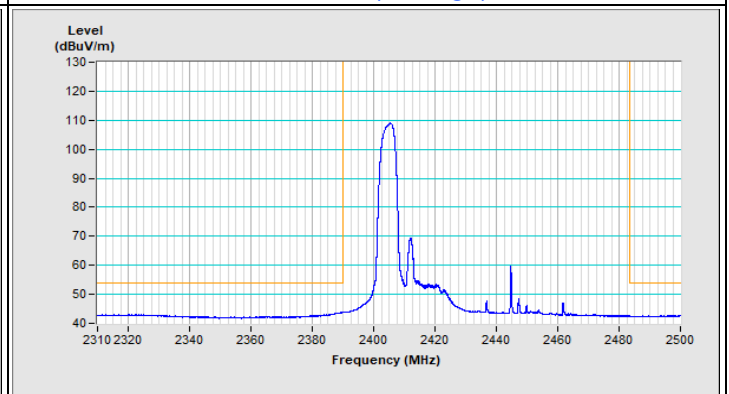
Horizontal (Peak)



Horizontal (Average)

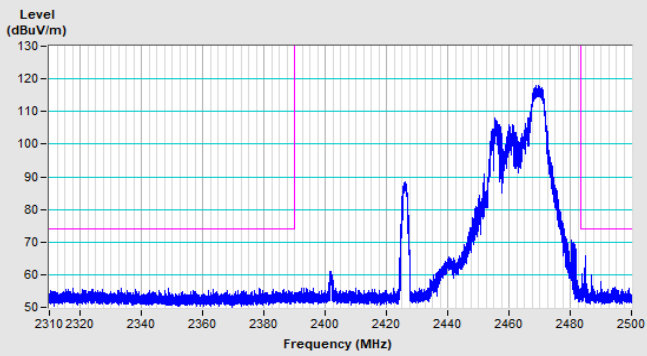


Vertical (Peak)

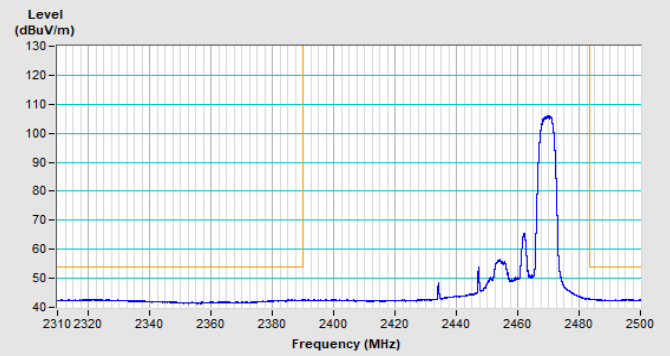


Vertical (Average)

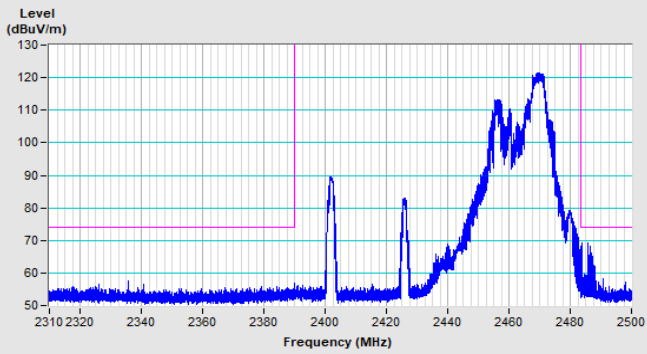
802.11ax (HE20) 52-tone RU Channel 11



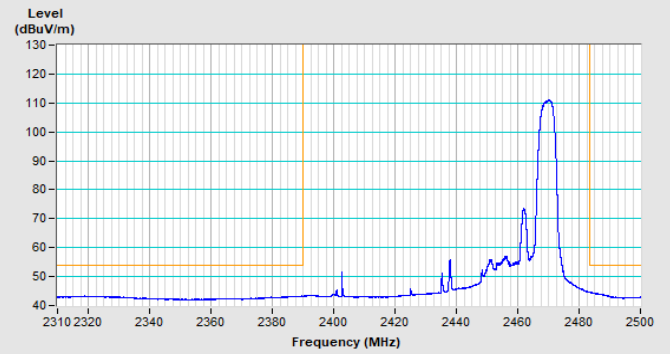
Horizontal (Peak)



Horizontal (Average)



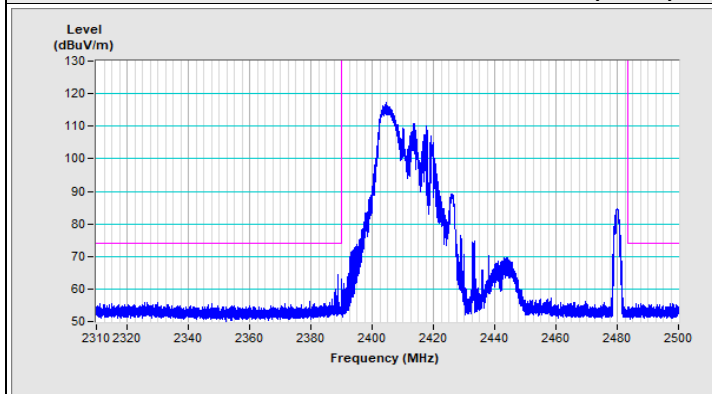
Vertical (Peak)



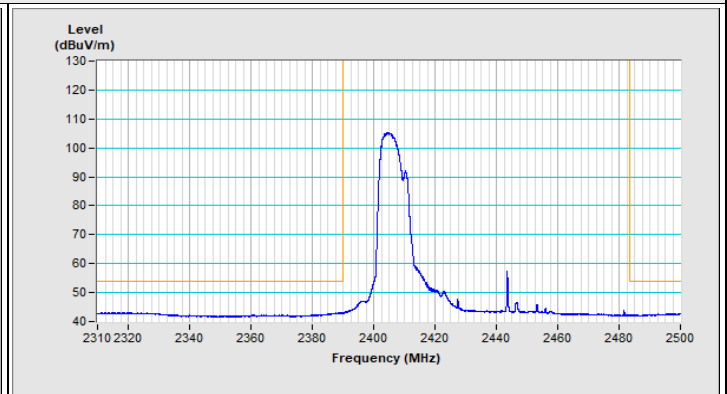
Vertical (Average)

Frequency Range	2.31 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
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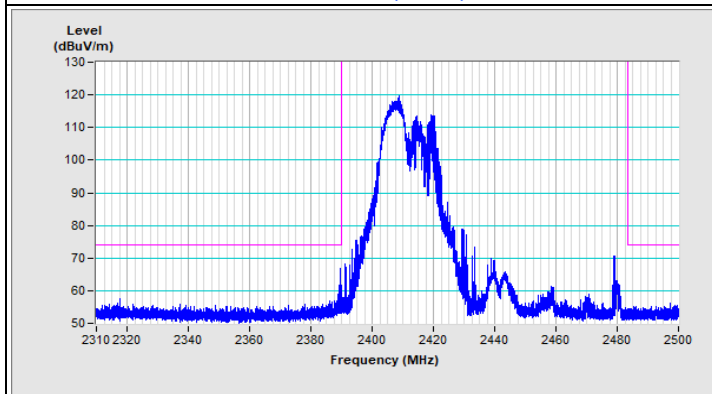
802.11ax (HE20) 106-tone RU Channel 1



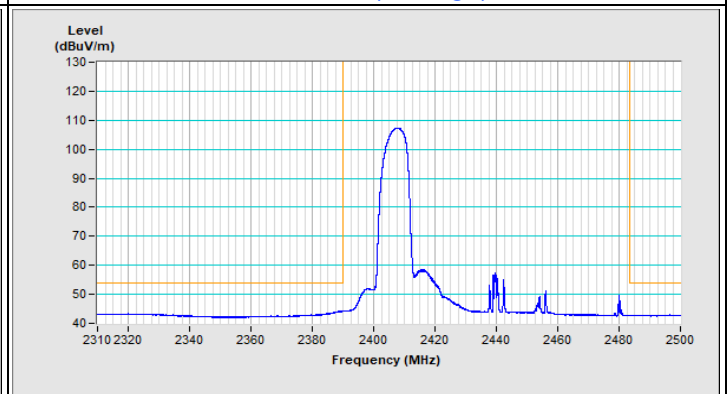
Horizontal (Peak)



Horizontal (Average)

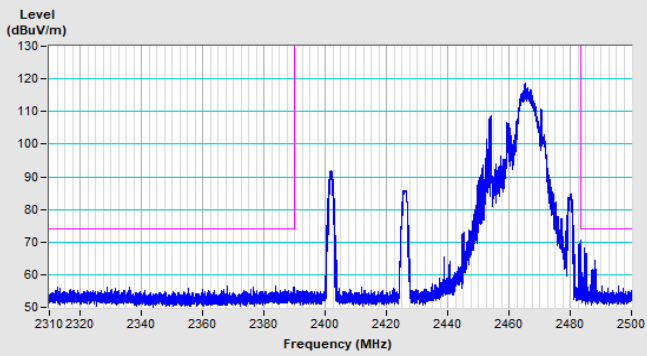


Vertical (Peak)

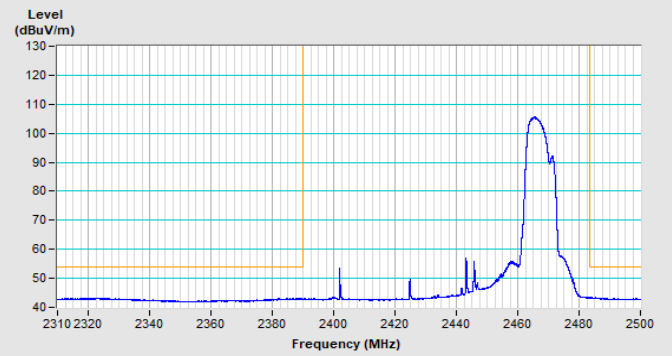


Vertical (Average)

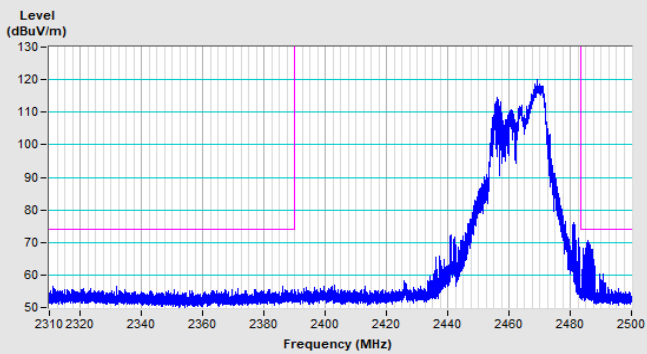
802.11ax (HE20) 106-tone RU Channel 11



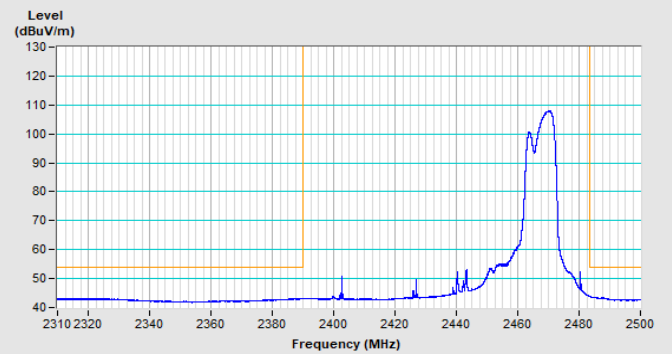
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

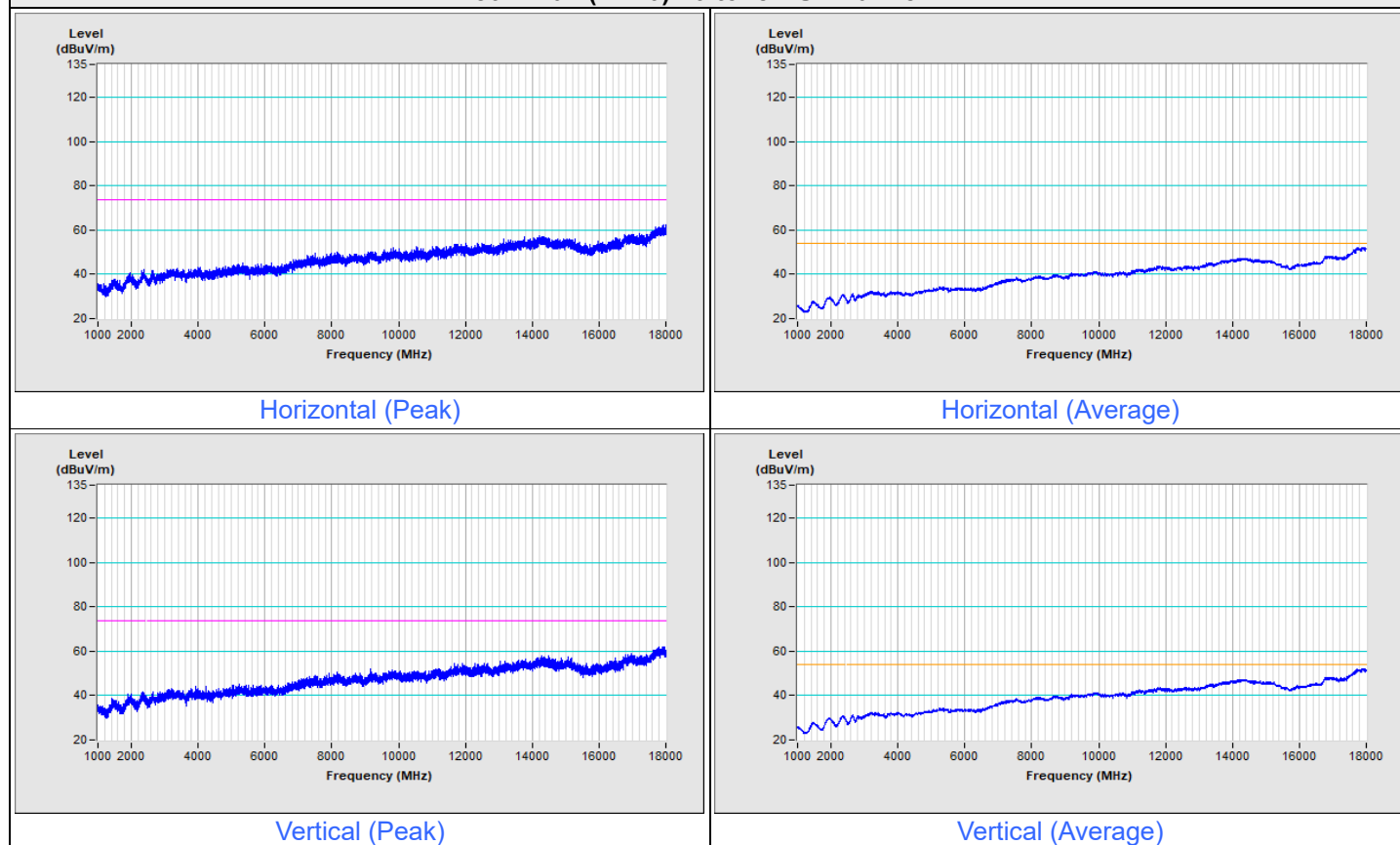


Vertical (Average)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) 26-tone RU Channel 1



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

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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Web Site: <http://ee.bureauveritas.com.tw>

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

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