FCC Test Report

Report No.: RF200206E05B-1 R1

FCC ID: C3K1884

Test Model: 1884

Received Date: June 05, 2020

Test Date: July 01, 2020

Issued Date: Dec. 17, 2020

Applicant: Microsoft Corporation

Address: One Microsoft Way,Redmond,Washington 98052-6399,United States

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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FCC Registration / Designation Number: 723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RF200206E05B-1	Original release.	Oct. 16, 2020
RF200206E05B-1 R1	1. Modify the note 1 description of section 3.1. 2. Add the description for below 1GHz data of Radiated Emission.	Dec. 17, 2020

1 Certificate of Conformity

Product: 802.11a/b/g/n/ac 2T2R dual-band wireless LAN radio

Brand: Microsoft

Test Model: 1884

Sample Status: ENGINEERING SAMPLE

Applicant: Microsoft Corporation

Test Date: July 01, 2020

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

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 EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Dec. 17, 2020
Phoenix Huang / Specialist

Approved by : _____ , **Date:** Dec. 17, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.88 dB at 5149.97 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.

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

2.1 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11a/b/g/n/ac 2T2R dual-band wireless LAN radio
Brand	Microsoft
Test Model	1884
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps
Operating Frequency	**2.4GHz:** 2.412 ~ 2.462GHz **5GHz:** 5.18 ~ 5.24 GHz, 5.26 ~ 5.32 GHz, 5.50 ~ 5.72 GHz, 5.745 ~ 5.825 GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	**2TX mode:** **2.4 GHz:** 450.068 mW **5.18 ~ 5.24 GHz:** 60.215 mW **5.26 ~ 5.32 GHz:** 64.795 mW **5.5 ~ 5.72 GHz:** 56.858 mW **5.745 ~ 5.825 GHz:** 60.211 mW **1TX mode:** **2.4 GHz:** 273.527 mW **5.18 ~ 5.24 GHz:** 42.462 mW **5.26 ~ 5.32 GHz:** 42.954 mW **5.5 ~ 5.72 GHz:** 43.853 mW **5.745 ~ 5.825 GHz:** 42.56 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II change. The difference compared with the Report No.: RF200206E05-1 as the following:
   - Add antennas as following table:

Freq. Range (GHz)	Original		Newly		Ant. Type	Connector Type
	Ant. No. 1 Gain (dBi)	Ant. No. 2. Gain (dBi)	Ant. No. 1 Gain (dBi)	Ant. No. 2. Gain (dBi)		
	Chian 0	Chain 1	Chian 0	Chain 1		
2.4~2.4835	2.88	3.62	2.77	5.26	PCB	None
5.15~5.25	3.43	3.41	3.06	3.78		
5.25~5.35	3.65	3.56	3.44	3.14		
5.47~5.725	3.22	3.74	3.83	2.79		
5.725~5.85	3.52	3.2	3.19	2.05		

2. According to above conditions, the below test item need to be performed. And all data was verified to meet the requirements.
   - For 2TX mode: Radiated Emissions and Band Edge (Conducted Measurement), Max Average Transmit Power, Occupied Bandwidth and Peak Power Spectral Density test items.
   - For 1TX mode: Radiated Emissions and Band Edge (Conducted Measurement) and Max Average Transmit Power test items.
3. 2.4GHz and 5GHz technology cannot transmit at same time.
4. The EUT incorporates a MIMO function.

2.4GHz Band			
MODULATION MODE	**DATA RATE (MCS)**	**TX & RX CONFIGURATION**	
802.11b	1 ~ 11Mbps	1TX (Fixed Chain 0)	2RX
802.11g	6 ~ 54Mbps	1TX (Fixed Chain 0)	2RX
802.11n (HT20)	MCS 0~7	1TX (Fixed Chain 0)	2RX
	MCS 8~15*	2TX	
802.11n (HT40)	MCS 0~7	1TX (Fixed Chain 0)	2RX
	MCS 8~15*	2TX	
5GHz Band			
MODULATION MODE	**DATA RATE (MCS)**	**TX & RX CONFIGURATION**	
802.11a	6 ~ 54Mbps	1TX (Fixed Chain 0)	2RX
802.11n (HT20)	MCS 0~7	1TX (Fixed Chain 0)	2RX
	MCS 8~15*	2TX	
802.11n (HT40)	MCS 0~7	1TX (Fixed Chain 0)	2RX
	MCS 8~15*	2TX	
802.11ac (VHT20)	MCS0~8 (256QAM) Nss=1	1TX (Fixed Chain 0)	2RX
	MCS0~8 (256QAM) Nss=2*	2TX	
802.11ac (VHT40)	MCS0~9 (256QAM) Nss=1	1TX (Fixed Chain 0)	2RX
	MCS0~9 (256QAM) Nss=2*	2TX	
802.11ac (VHT80)	MCS0~9 (256QAM) Nss=1	1TX (Fixed Chain 0)	2RX
	MCS0~9 (256QAM) Nss=2*	2TX	

Note: 1. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore the manufacturer will control the power for 802.11n mode is the same as the 802.11ac or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)

"*" means the device operate with two spatial stream (Nss = 2) with different data, and two signals are not correlated.

5. 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.
6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210 MHz

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290 MHz

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE≥1G	RE<1G	APCM	
1	√	√	√	2TX mode
2	√	√	√	1TX mode

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

2TX Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac (VHT20)	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	13
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	27
802.11ac (VHT80)		42	42	OFDM	BPSK	58.5
802.11ac (VHT20)	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	13
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	27
802.11ac (VHT80)		58	58	OFDM	BPSK	58.5
802.11ac (VHT20)	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	13
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	27
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	58.5
802.11ac (VHT20)	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	13
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	27
802.11ac (VHT80)		155	155	OFDM	BPSK	58.5
1TX Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

2TX Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate (Mbps)**
802.11ac (VHT20)	5180-5240, 5260-5320, 5500-5720, 5745-5825	36 to 48, 52 to 64, 100 to 144, 149 to 165	40, 60, 144, 149	OFDM	BPSK	13
1TX Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate (Mbps)**
802.11a	5180-5240, 5260-5320, 5500-5720, 5745-5825	36 to 48, 54 to 62, 100 to 144, 149 to 165	40, 64, 140, 149	OFDM	BPSK	6

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

Max Average Transmit Power test						
2TX Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate (Mbps)**
802.11ac (VHT20)	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	13
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	27
802.11ac (VHT80)		42	42	OFDM	BPSK	58.5
802.11ac (VHT20)	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	13
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	27
802.11ac (VHT80)		58	58	OFDM	BPSK	58.5
802.11ac (VHT20)	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	13
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	27
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	58.5
802.11ac (VHT20)	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	13
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	27
802.11ac (VHT80)		155	155	OFDM	BPSK	58.5

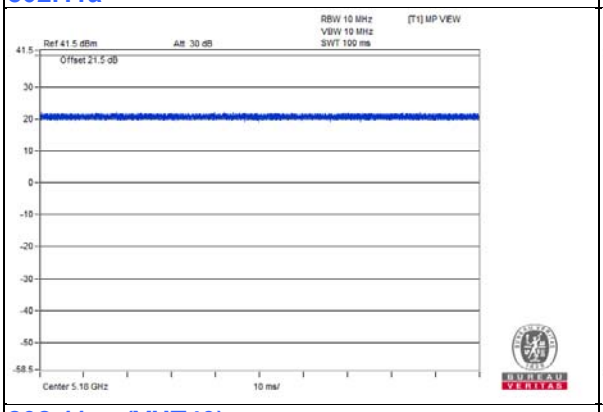
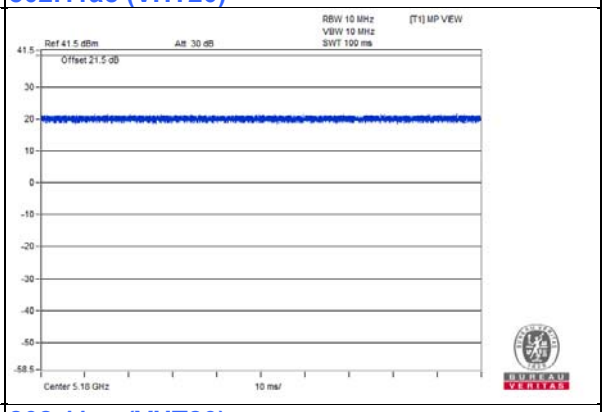
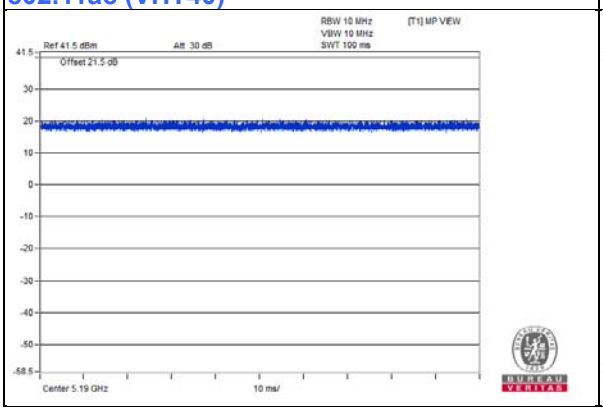
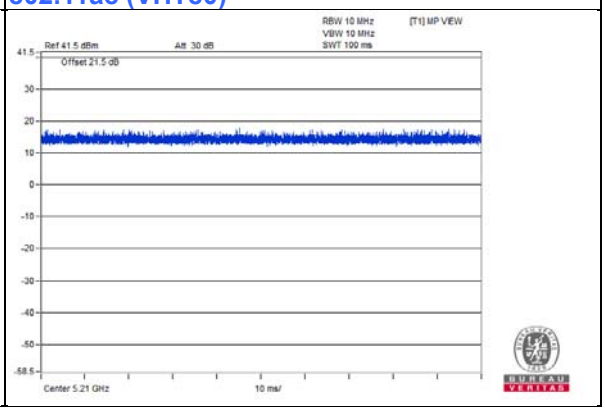
Max Average Transmit Power test						
1TX Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3
Other test items						
2TX Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11ac (VHT40)	5180-5240, 5260-5320, 5500-5720, 5745-5825	38 to 46, 54 to 62, 102 to 142, 151 to 159	102	OFDM	BPSK	27

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE≥1G	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen
RE<1G	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen
APCM	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %, duty factor is not required.

802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	**802.11ac (VHT80)**
	

3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

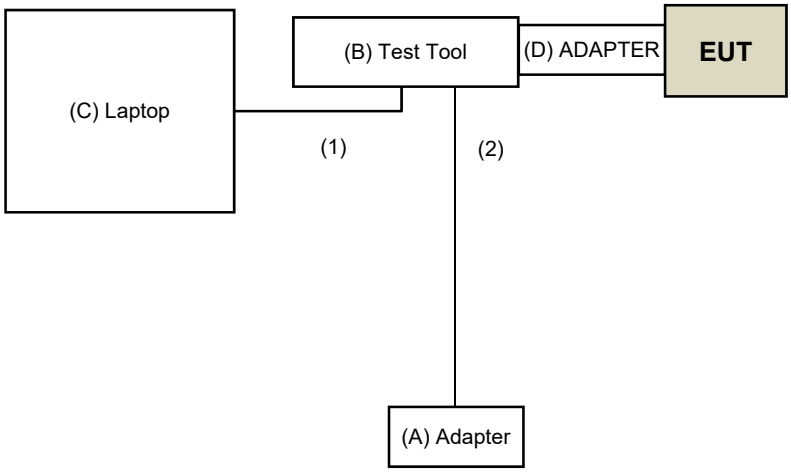
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Adapter	PHIHONG	PSC15A-050	NA	NA	Supplied by client
B.	Test Tool	MediaTek Inc.	NA	NA	NA	Supplied by client
C.	Laptop	DELL	E5430	GM1SKV1	FCC DoC	Supplied by Lab
D.	ADAPTER	MICROSOFT	M1096761-001	NA	NA	Supplied by client

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Type B Cable	1	1.8	Yes	0	Provided by Lab
2.	DC Cable	1	1.5	No	0	Supplied by client

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standard and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:
FCC Part 15, Subpart E (15.407)
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement (Conducted)

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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 1000MHz, 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 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\ \sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 26, 2019	July 25, 2020
Power sensor Anritsu	MA2411B	1339443	July 26, 2019	July 25, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

NOTE:
1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: July 01, 2020

4.1.3 Test Procedure

Following FCC KDB 789033 D02 General UNII Test Procedures:
Conducted Measurements.
The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.
The following steps was performed:

a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.

b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.

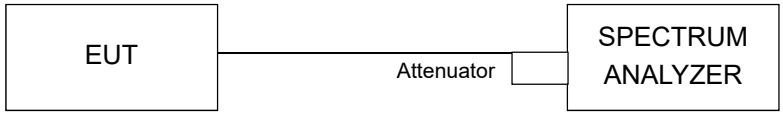
c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.

d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)

4.1.4 Deviation from Test Standard

No deviation.

4.1.5 Test Setup



4.1.6 EUT Operating Condition

a. Connected the EUT with the Laptop which is placed on the testing table.
b. Controlling software (MT7663 QA 0.0.2.6) has been activated to set the EUT under transmission condition continuously at specific channel frenquency.

4.1.7 Test Results (Conducted Measurement)

Radiated versus Conducted Measurement	
☒ Conducted measurement	☐ Radiated measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation)

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Note: In order to obtain results more easily, change max hold to view. It has no effect on the result.

Conducted Measurement Factor

a. The composite gain will be used
   i. For Mode 1
      Chain 0: Composite gain = 3.83 + 10 log[(2) = 6.84 dBi
      Chain 1: Composite gain = 5.26 + 10 log[(2) = 8.27 dBi
   ii. For Mode 2: Composite gain = 3.83 dBi

b. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.

c. For the band edge the gain for the specific band may have been used.

d. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:

   For f = 30 – 1000 MHz, add 4.7 dB.

Note: The conducted emission test was considered some factor to compute test result.

4.1.7.1 Test Results (Mode 1)

Above 1GHz Data
802.11ac (VHT20) - Channel 36

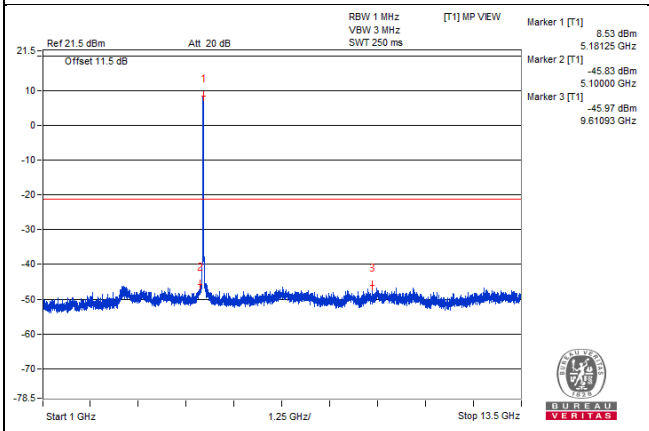
Conducted spurious emission table

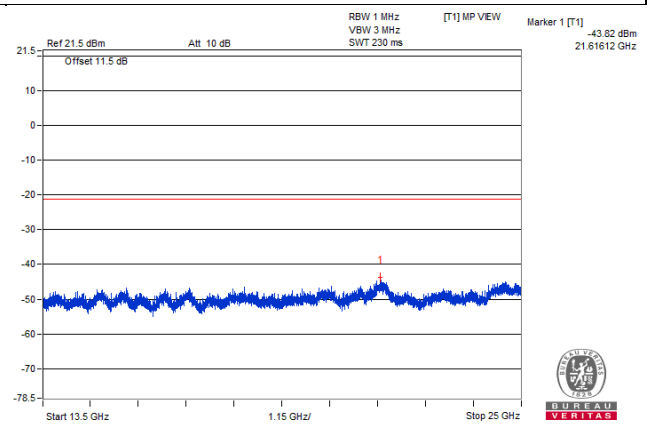
Chain 0

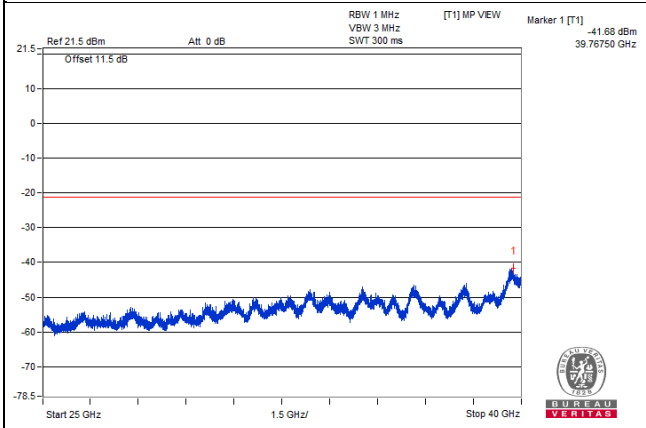
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5181.25 PK	110.63	*		8.53	6.84	15.37
2	5100 PK	56.27	74	-17.73	-45.83	6.84	-38.99
3	9610.93 PK	56.13	68.2	-12.07	-45.97	6.84	-39.13
4	21616.12 PK	58.28	68.2	-9.92	-43.82	6.84	-36.98
5	39767.5 PK	60.42	74	-13.58	-41.68	6.84	-34.84
6	5178.12 AV	101.81	*		-0.29	6.84	6.55
7	5098.43 AV	42.62	54	-11.38	-59.48	6.84	-52.64
8	7245.31 AV	34.01	#		-68.09	6.84	-61.25
9	21642 AV	46.15	#		-55.95	6.84	-49.11
10	39700 AV	48.6	54	-5.4	-53.5	6.84	-46.66

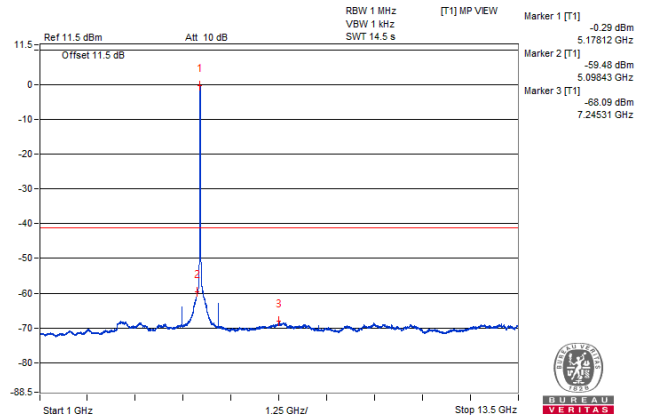
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

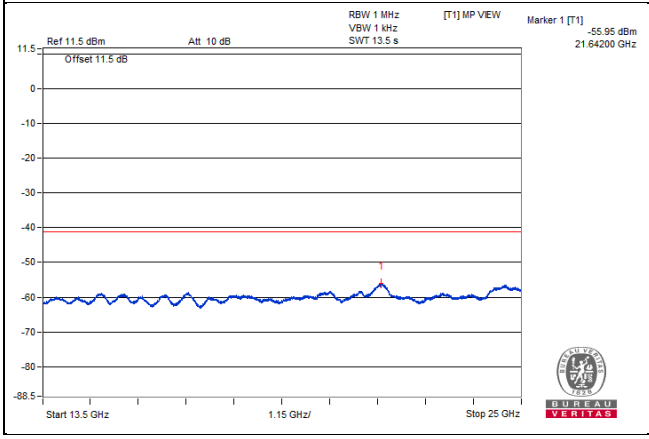
Chain 0

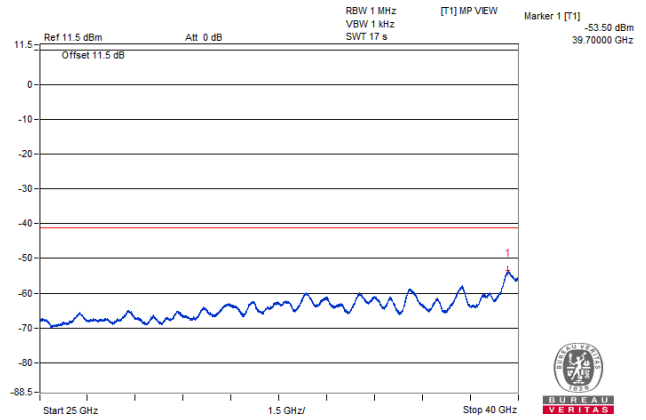

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.53 dBm
5.18125 GHz
Marker 2 [T1]
-45.83 dBm
5.10000 GHz
Marker 3 [T1]
-45.97 dBm
9.61093 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.82 dBm
21.61612 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.68 dBm
39.76750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.29 dBm
5.17812 GHz
Marker 2 [T1]
-59.48 dBm
5.09843 GHz
Marker 3 [T1]
-68.09 dBm
7.24531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.95 dBm
21.64200 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

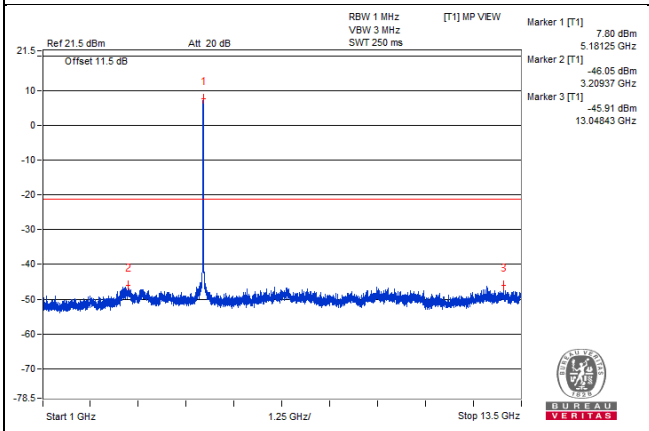

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.50 dBm
39.70000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

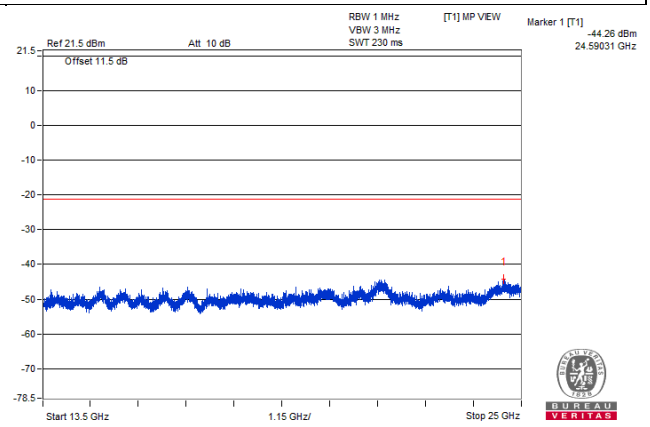
Chain 1

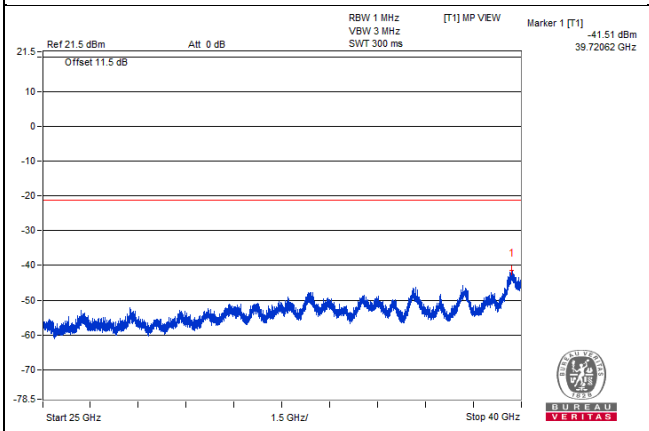
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5181.25 PK	111.33	*		7.8	8.27	16.07
2	3209.37 PK	57.48	68.2	-10.72	-46.05	8.27	-37.78
3	13048.43 PK	57.62	68.2	-10.58	-45.91	8.27	-37.64
4	24590.31 PK	59.27	68.2	-8.93	-44.26	8.27	-35.99
5	39720.62 PK	62.02	74	-11.98	-41.51	8.27	-33.24
6	5178.12 AV	102.61	*		-0.92	8.27	7.35
7	5098.43 AV	44.13	54	-9.87	-59.4	8.27	-51.13
8	10360.93 AV	35.45	#		-68.08	8.27	-59.81
9	21643.43 AV	47.67	#		-55.86	8.27	-47.59
10	39701.87 AV	49.93	54	-4.07	-53.6	8.27	-45.33

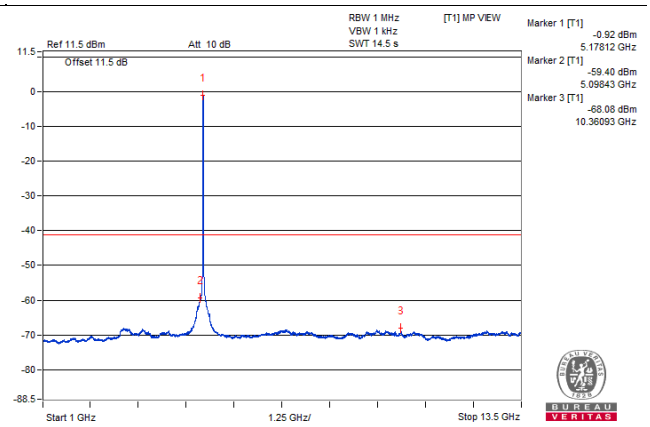
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

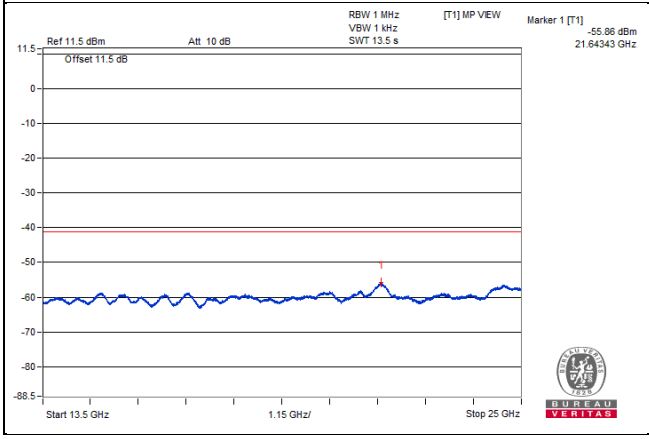
Chain 1

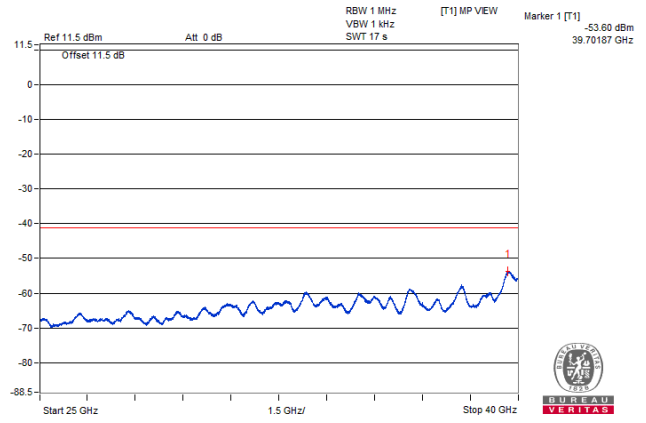

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.80 dBm
5.18125 GHz
Marker 2 [T1]
-46.05 dBm
3.20937 GHz
Marker 3 [T1]
-45.91 dBm
13.04843 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.26 dBm
24.59031 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.51 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.92 dBm
5.17812 GHz
Marker 2 [T1]
-59.40 dBm
5.09843 GHz
Marker 3 [T1]
-68.08 dBm
10.36093 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.86 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.60 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

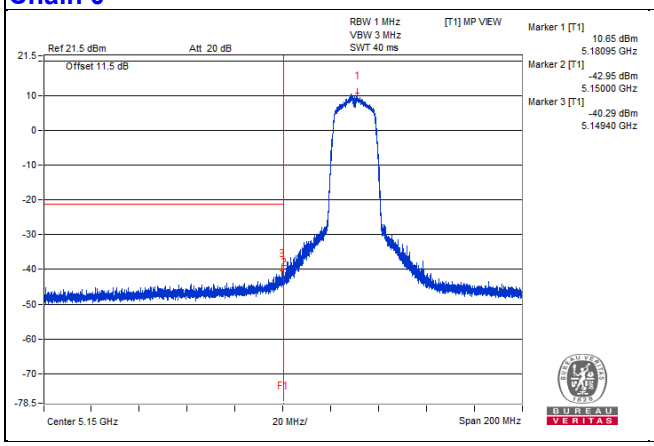
Bandedge table

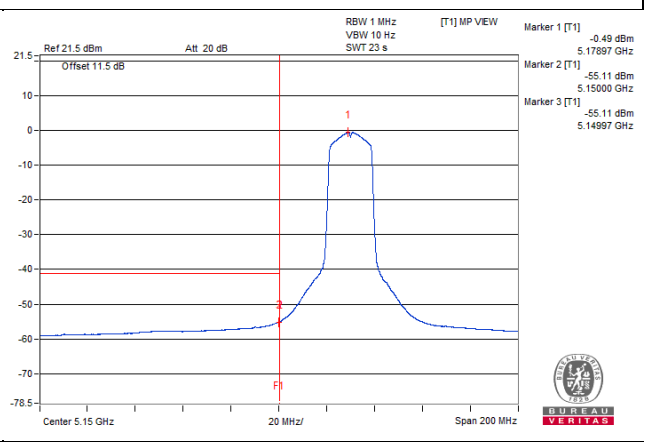
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5180.95 PK	111.98	*		10.65	6.07	16.72
2	5150 PK	58.38	74	-15.62	-42.95	6.07	-36.88
3	5149.4 PK	61.04	74	-12.96	-40.29	6.07	-34.22
4	5178.97 AV	100.84	*		-0.49	6.07	5.58
5	5150 AV	46.22	54	-7.78	-55.11	6.07	-49.04
6	5149.97 AV	46.22	54	-7.78	-55.11	6.07	-49.04

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0





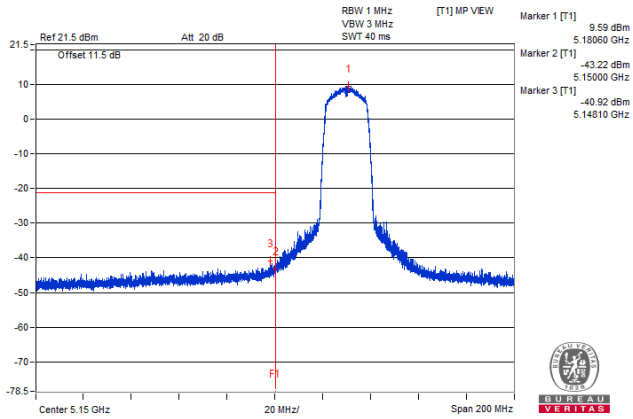
Chain 1

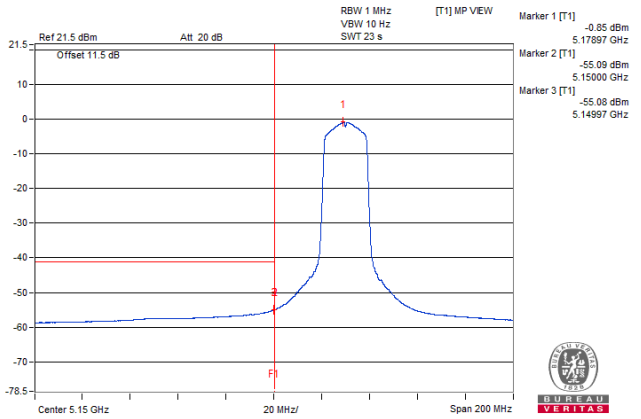
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5180.6 PK	111.64	*		9.59	6.79	16.38
2	5150 PK	58.83	74	-15.17	-43.22	6.79	-36.43
3	5148.1 PK	61.13	74	-12.87	-40.92	6.79	-34.13
4	5178.97 AV	101.2	*		-0.85	6.79	5.94
5	5150 AV	46.96	54	-7.04	-55.09	6.79	-48.3
6	5149.97 AV	46.97	54	-7.03	-55.08	6.79	-48.29

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 40

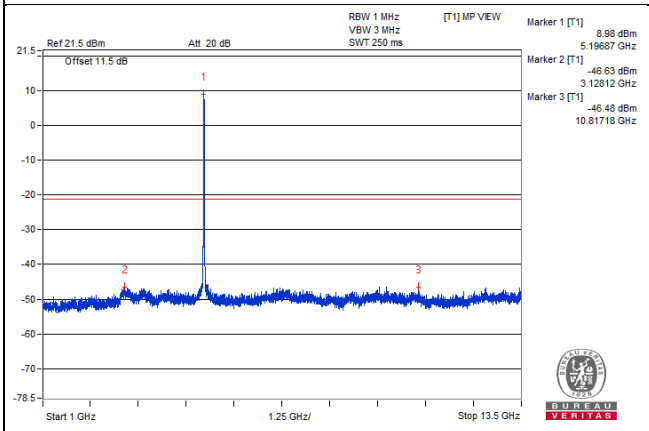
Conducted spurious emission table

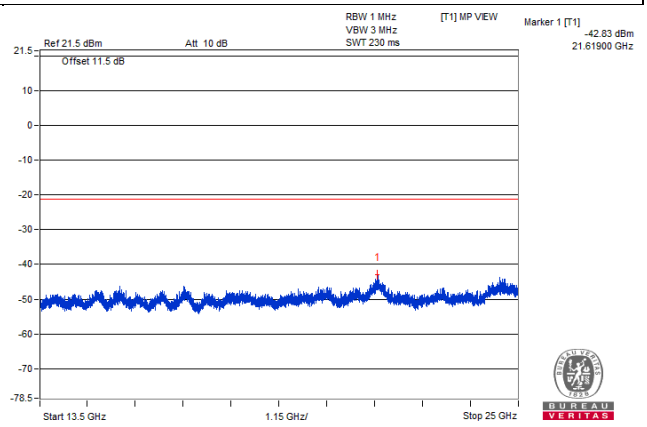
Chain 0

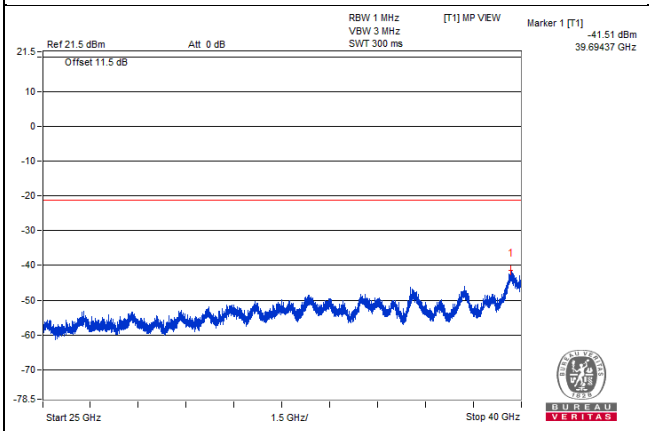
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5196.87 PK	111.08	*		8.98	6.84	15.82
2	3128.12 PK	55.47	68.2	-12.73	-46.63	6.84	-39.79
3	10817.18 PK	55.62	74	-18.38	-46.48	6.84	-39.64
4	21619 PK	59.27	68.2	-8.93	-42.83	6.84	-35.99
5	39694.37 PK	60.59	74	-13.41	-41.51	6.84	-34.67
6	5200 AV	102.02	*		-0.08	6.84	6.76
7	5100 AV	40.59	54	-13.41	-61.51	6.84	-54.67
8	7281.25 AV	34.1	54	-19.9	-68	6.84	-61.16
9	21623.31 AV	46.22	#		-55.88	6.84	-49.04
10	39688.75 AV	48.52	54	-5.48	-53.58	6.84	-46.74

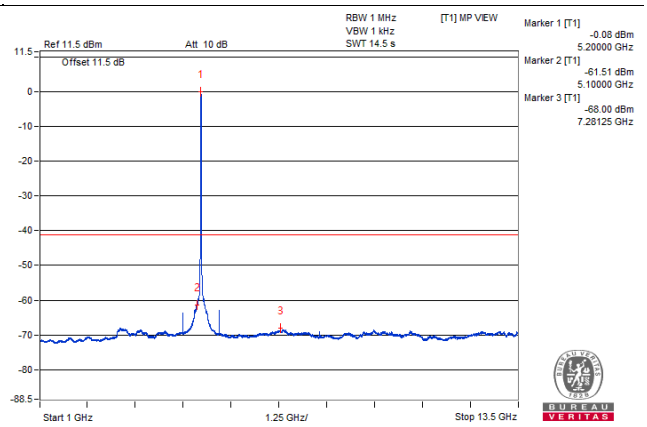
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

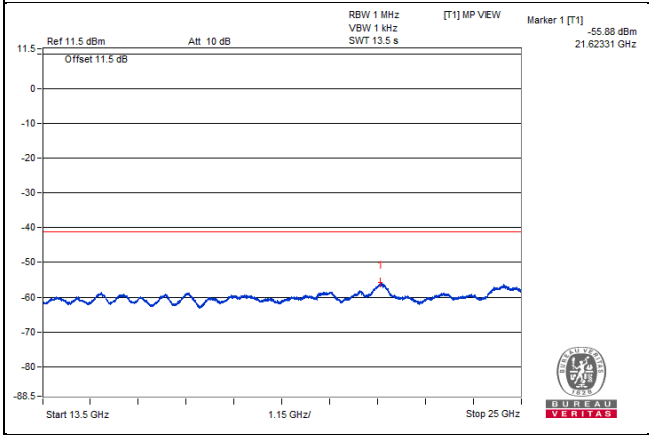
Chain 0

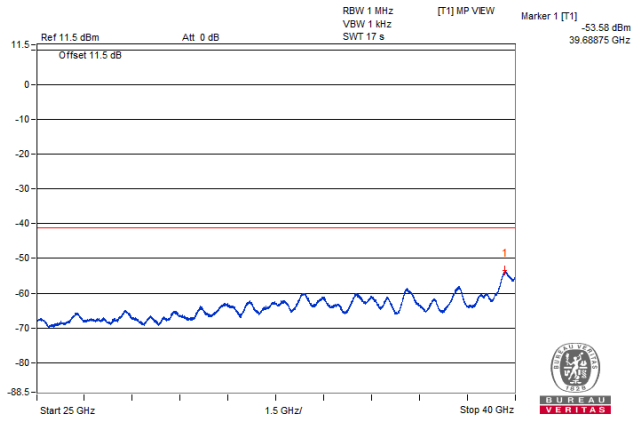

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.98 dBm
5.19687 GHz
Marker 2 [T1]
-46.63 dBm
3.12812 GHz
Marker 3 [T1]
-46.48 dBm
10.81718 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-42.83 dBm
21.61900 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.51 dBm
39.69437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.08 dBm
5.20000 GHz
Marker 2 [T1]
-61.51 dBm
5.10000 GHz
Marker 3 [T1]
-68.00 dBm
7.28125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.88 dBm
21.62331 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

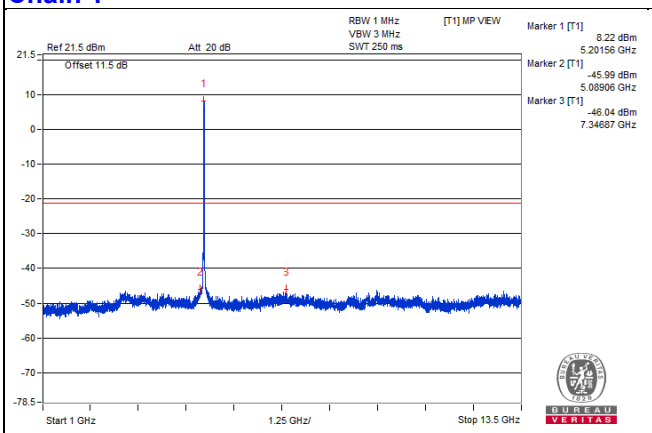

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.58 dBm
39.68875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

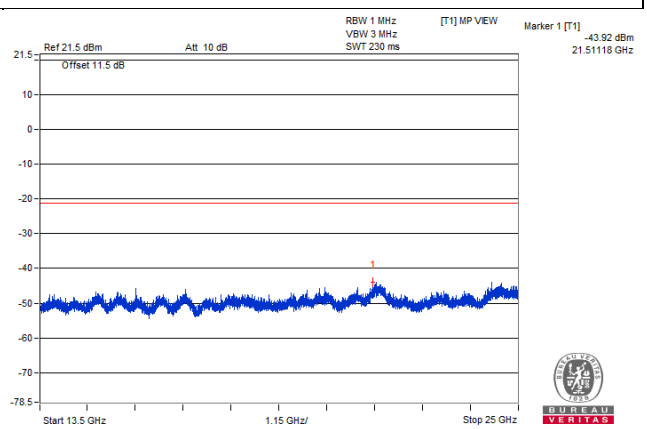
Chain 1

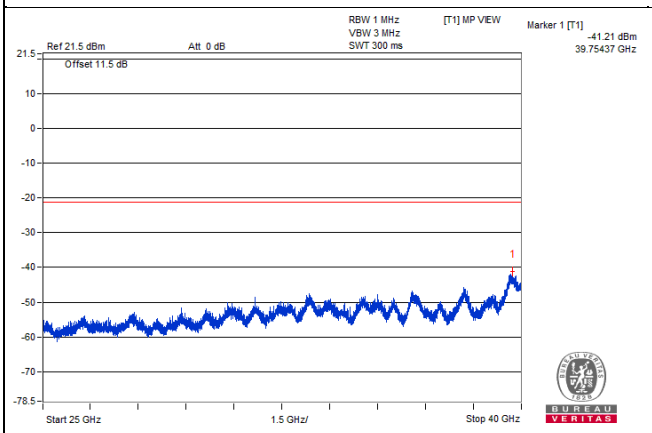
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5201.56 PK	111.75	*		8.22	8.27	16.49
2	5089.06 PK	57.54	74	-16.46	-45.99	8.27	-37.72
3	7346.87 PK	57.49	74	-16.51	-46.04	8.27	-37.77
4	21511.18 PK	59.61	68.2	-8.59	-43.92	8.27	-35.65
5	39754.37 PK	62.32	74	-11.68	-41.21	8.27	-32.94
6	5200 AV	103.48	*		-0.05	8.27	8.22
7	5098.43 AV	43.58	54	-10.42	-59.95	8.27	-51.68
8	10401.56 AV	35.61	#		-67.92	8.27	-59.65
9	21649.18 AV	47.5	#		-56.03	8.27	-47.76
10	39720.62 AV	50.02	54	-3.98	-53.51	8.27	-45.24

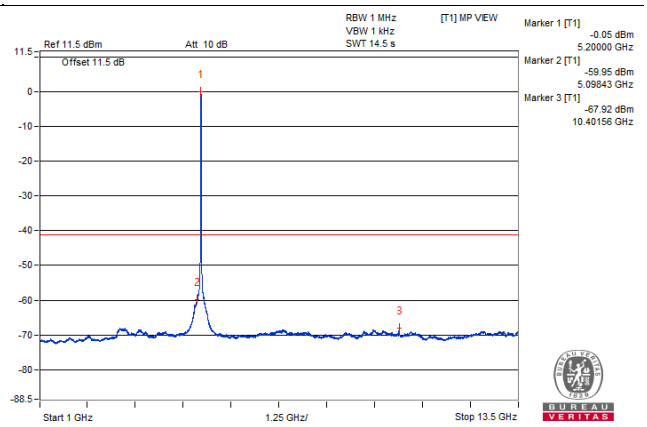
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

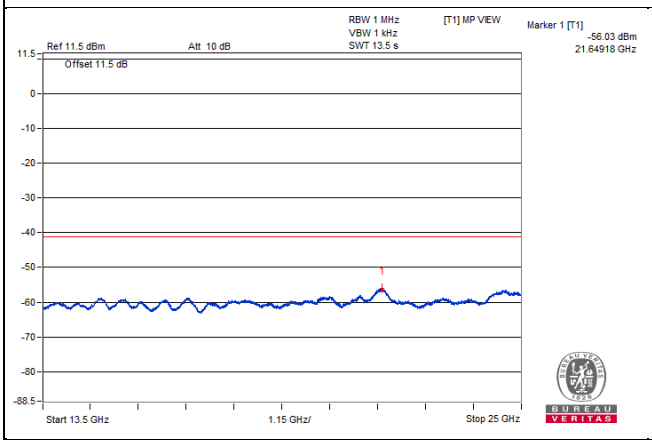
Chain 1

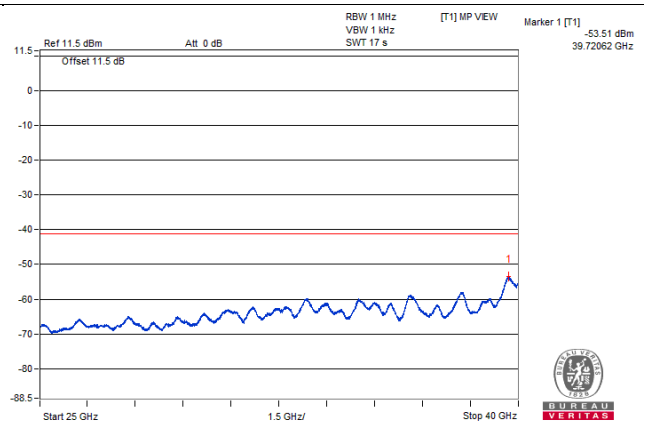

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.22 dBm
5.20156 GHz
Marker 2 [T1]
-45.99 dBm
5.08906 GHz
Marker 3 [T1]
-46.04 dBm
7.34687 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.92 dBm
21.51118 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.21 dBm
39.75437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.05 dBm
5.20000 GHz
Marker 2 [T1]
-59.95 dBm
5.09843 GHz
Marker 3 [T1]
-67.92 dBm
10.40156 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.03 dBm
21.64918 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.51 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

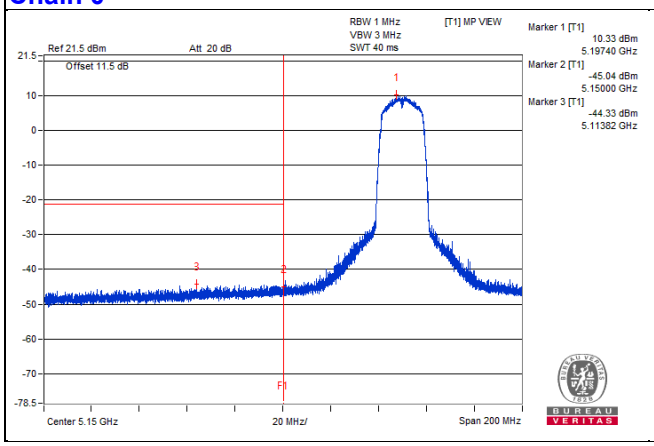
Bandedge table

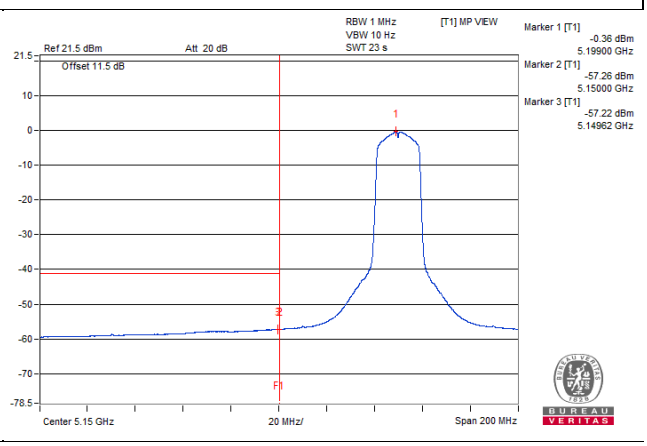
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5197.4 PK	111.66	*		10.33	6.07	16.4
2	5150 PK	56.29	74	-17.71	-45.04	6.07	-38.97
3	5113.82 PK	57	74	-17	-44.33	6.07	-38.26
4	5199 AV	100.97	*		-0.36	6.07	5.71
5	5150 AV	44.07	54	-9.93	-57.26	6.07	-51.19
6	5149.62 AV	44.11	54	-9.89	-57.22	6.07	-51.15

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0





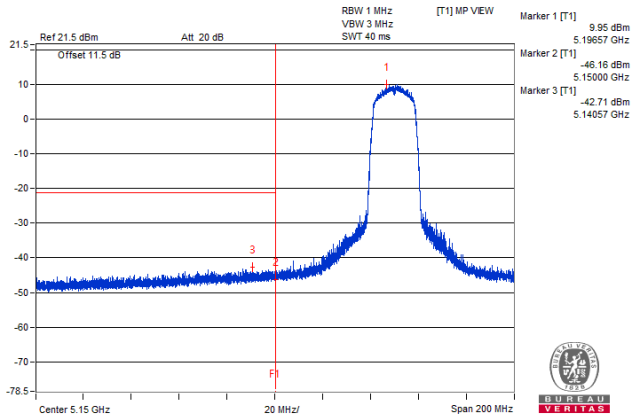
Chain 1

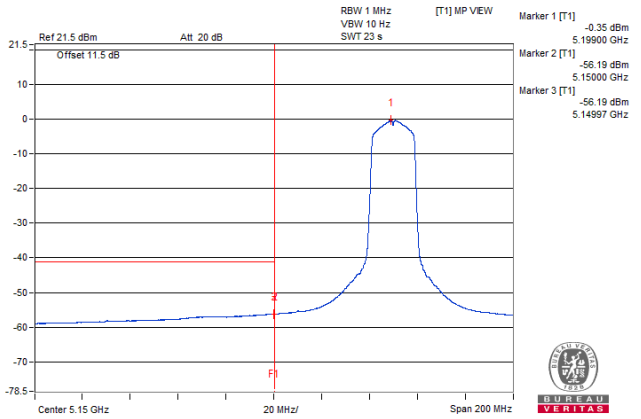
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5196.57 PK	112	*		9.95	6.79	16.74
2	5150 PK	55.89	74	-18.11	-46.16	6.79	-39.37
3	5140.57 PK	59.34	74	-14.66	-42.71	6.79	-35.92
4	5199 AV	101.7	*		-0.35	6.79	6.44
5	5150 AV	45.86	54	-8.14	-56.19	6.79	-49.4
6	5149.97 AV	45.86	54	-8.14	-56.19	6.79	-49.4

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 48

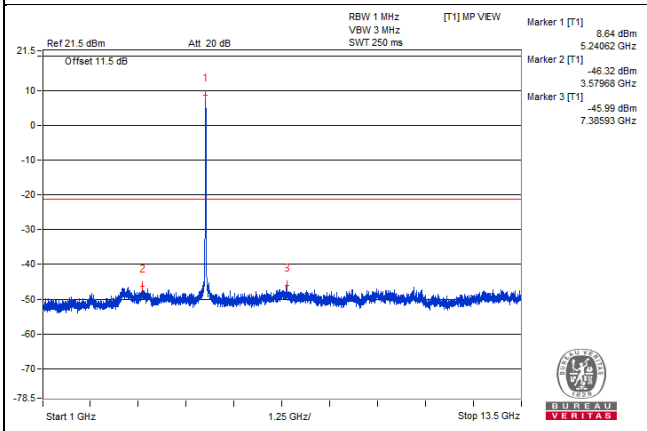
Conducted spurious emission table

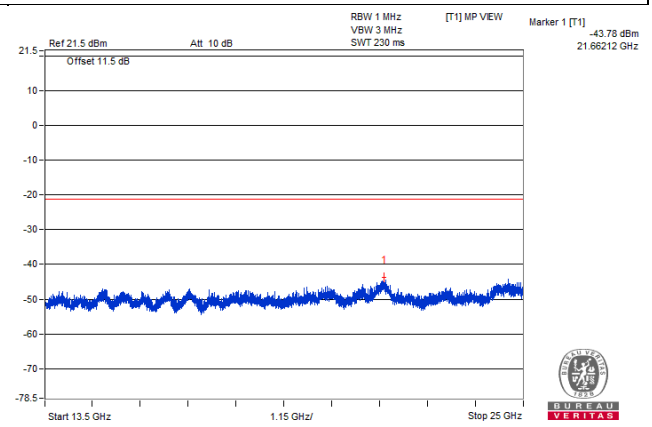
Chain 0

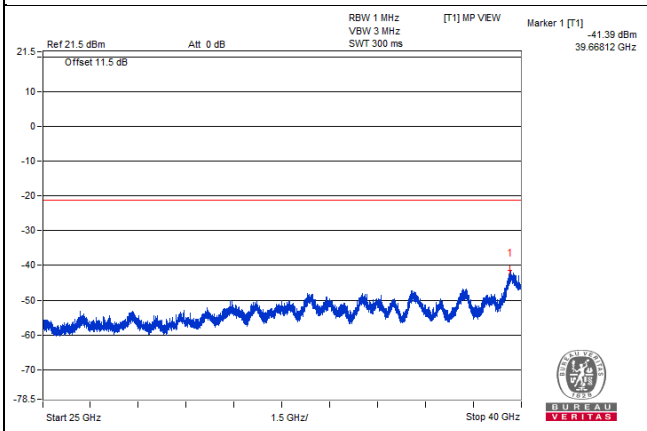
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5240.62 PK	110.74	*		8.64	6.84	15.48
2	3579.68 PK	55.78	74	-18.22	-46.32	6.84	-39.48
3	7385.93 PK	56.11	74	-17.89	-45.99	6.84	-39.15
4	21662.12 PK	58.32	68.2	-9.88	-43.78	6.84	-36.94
5	39668.12 PK	60.71	74	-13.29	-41.39	6.84	-34.55
6	5240.62 AV	102.29	*		0.19	6.84	7.03
7	5078.12 AV	39.28	54	-14.72	-62.82	6.84	-55.98
8	7334.37 AV	33.85	54	-20.15	-68.25	6.84	-61.41
9	21665 AV	46.14	#		-55.96	6.84	-49.12
10	39709.37 AV	48.62	54	-5.38	-53.48	6.84	-46.64

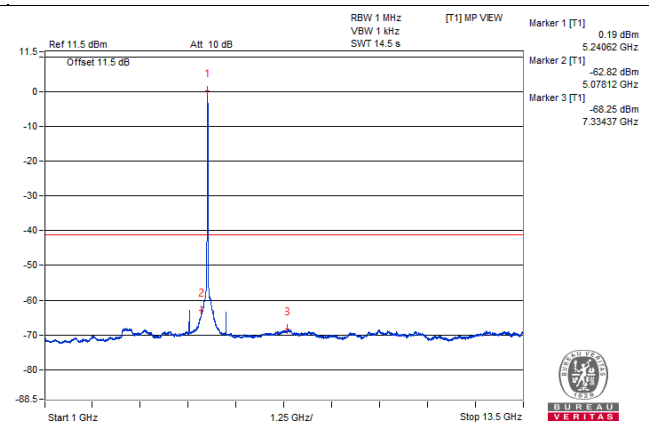
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

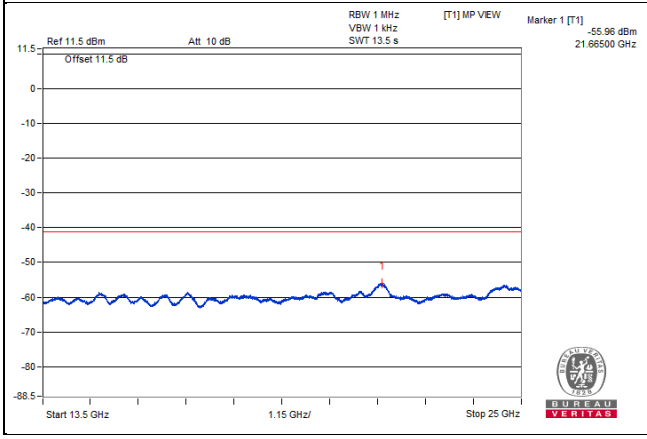
Chain 0

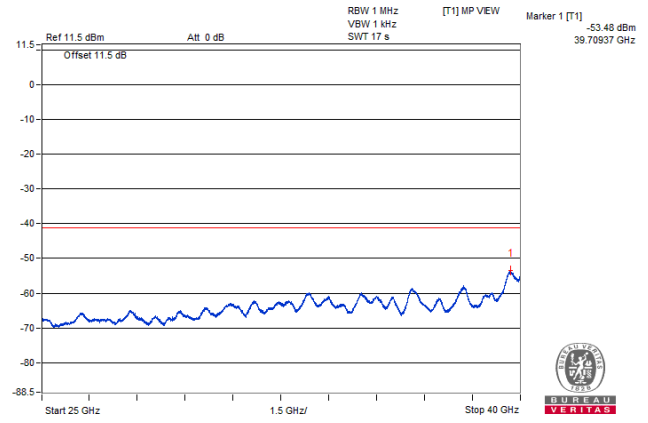

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.64 dBm
5.24062 GHz
Marker 2 [T1]
-46.32 dBm
3.57968 GHz
Marker 3 [T1]
-45.99 dBm
7.38593 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.78 dBm
21.66212 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.39 dBm
39.66812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.19 dBm
5.24062 GHz
Marker 2 [T1]
-62.82 dBm
5.07812 GHz
Marker 3 [T1]
-68.25 dBm
7.33437 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.96 dBm
21.66500 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

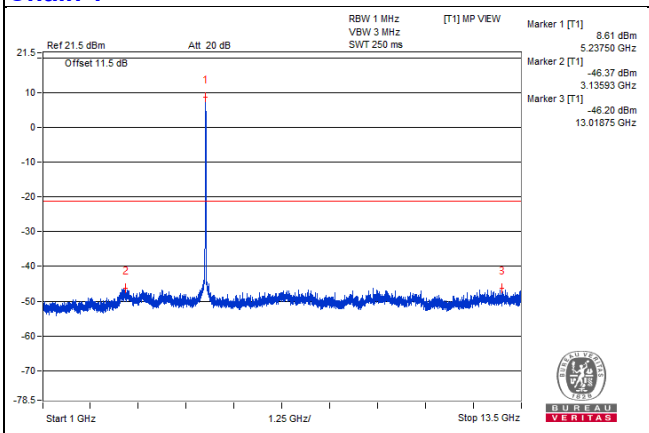

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.48 dBm
39.70937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

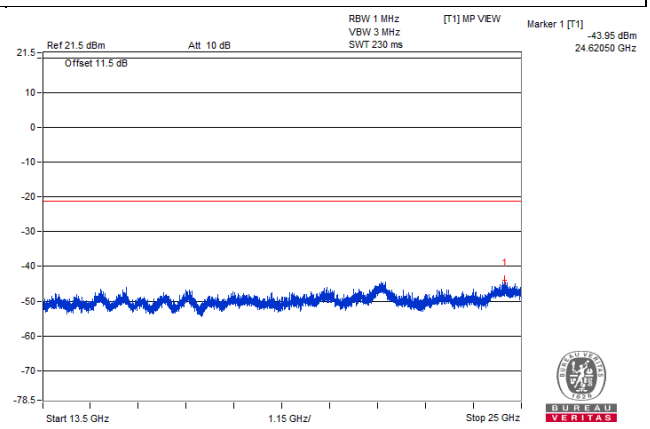
Chain 1

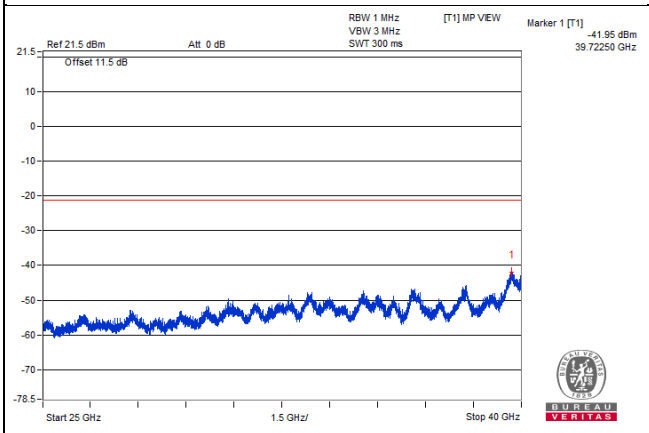
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5237.5 PK	112.14	*		8.61	8.27	16.88
2	3135.93 PK	57.16	68.2	-11.04	-46.37	8.27	-38.1
3	13018.75 PK	57.33	68.2	-10.87	-46.2	8.27	-37.93
4	24620.5 PK	59.58	68.2	-8.62	-43.95	8.27	-35.68
5	39722.5 PK	61.58	74	-12.42	-41.95	8.27	-33.68
6	5240.62 AV	103.35	*		-0.18	8.27	8.09
7	5081.25 AV	42.04	54	-11.96	-61.49	8.27	-53.22
8	10484.37 AV	35.28	#		-68.25	8.27	-59.98
9	21636.25 AV	47.56	#		-55.97	8.27	-47.7
10	39707.5 AV	49.89	54	-4.11	-53.64	8.27	-45.37

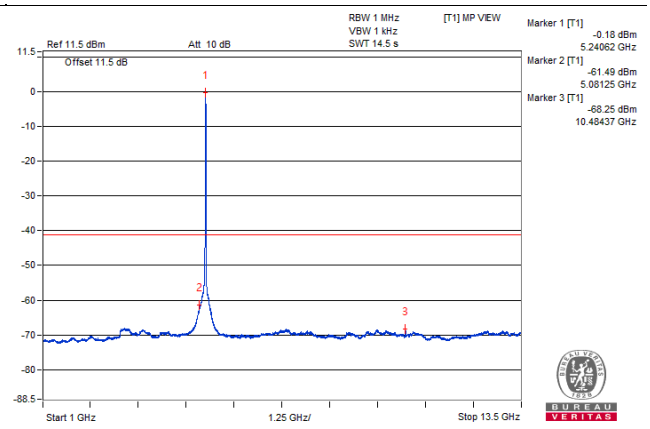
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

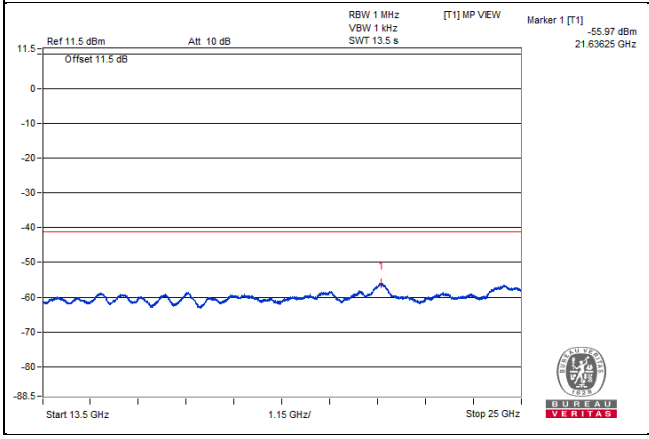
Chain 1

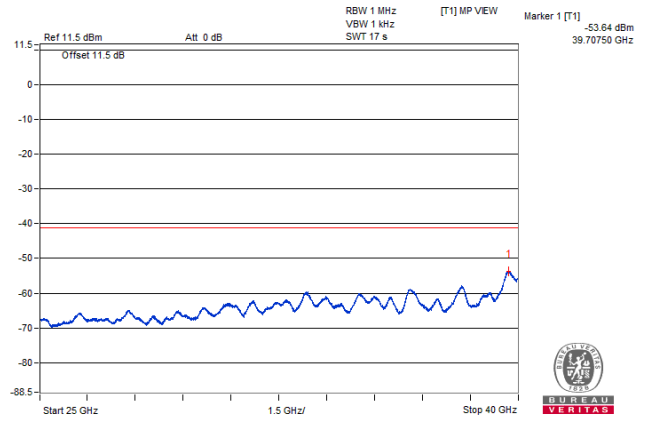

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.61 dBm
5.23750 GHz
Marker 2 [T1]
-46.37 dBm
3.13593 GHz
Marker 3 [T1]
-46.20 dBm
13.01875 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.95 dBm
24.62050 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.95 dBm
39.72250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.18 dBm
5.24062 GHz
Marker 2 [T1]
-61.49 dBm
5.08125 GHz
Marker 3 [T1]
-68.25 dBm
10.48437 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.97 dBm
21.63625 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.64 dBm
39.70750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

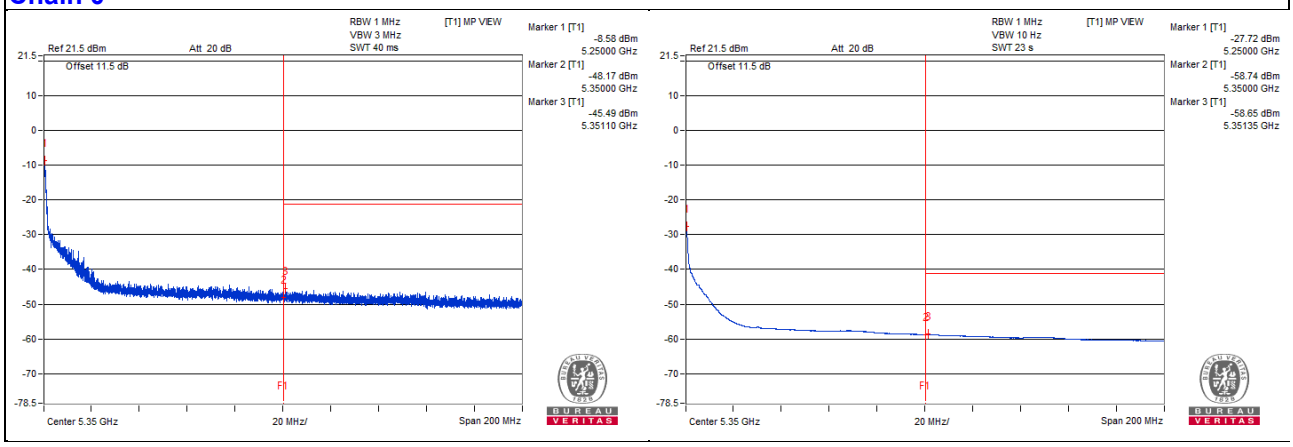
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5237.65 PK	111.28	*		9.95	6.07	16.02
2	5150 PK	53.33	74	-20.67	-48	6.07	-41.93
3	5081.97 PK	56	74	-18	-45.33	6.07	-39.26
4	5238.95 AV	101.25	*		-0.08	6.07	5.99
5	5150 AV	42.8	54	-11.2	-58.53	6.07	-52.46
6	5150 AV	42.8	54	-11.2	-58.53	6.07	-52.46

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



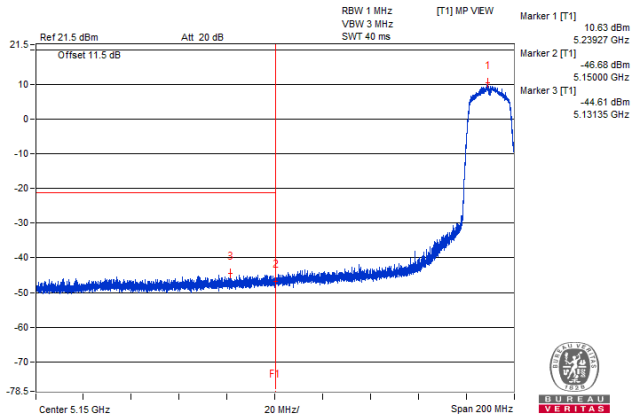
Chain 1

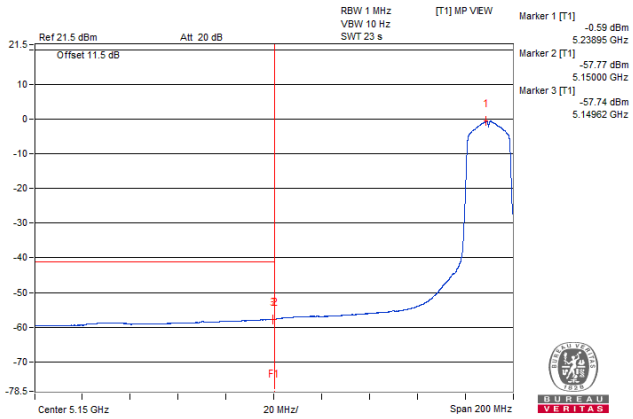
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5239.27 PK	112.68	*		10.63	6.79	17.42
2	5150 PK	55.37	74	-18.63	-46.68	6.79	-39.89
3	5131.35 PK	57.44	74	-16.56	-44.61	6.79	-37.82
4	5238.95 AV	101.46	*		-0.59	6.79	6.2
5	5150 AV	44.28	54	-9.72	-57.77	6.79	-50.98
6	5149.62 AV	44.31	54	-9.69	-57.74	6.79	-50.95

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 52

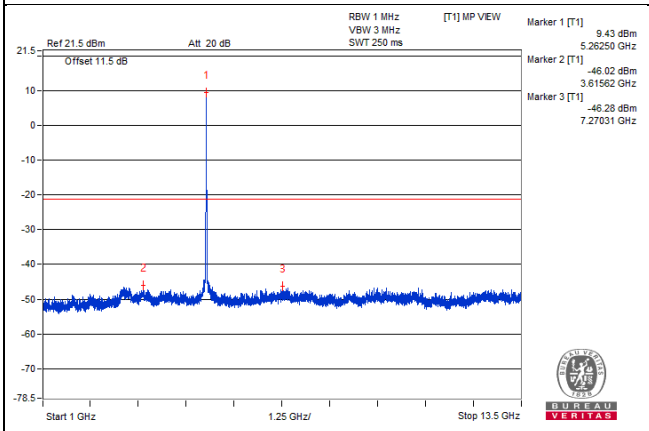
Conducted spurious emission table

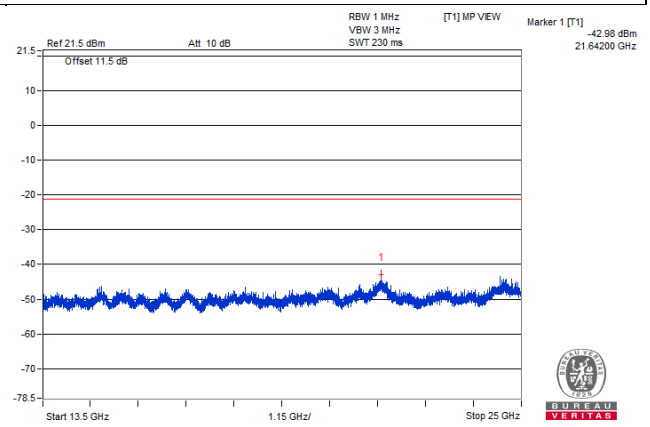
Chain 0

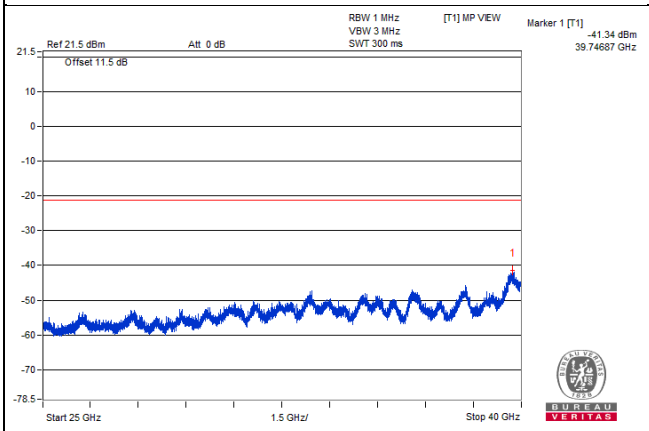
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5262.5 PK	111.53	*		9.43	6.84	16.27
2	3615.62 PK	56.08	74	-17.92	-46.02	6.84	-39.18
3	7270.31 PK	55.82	74	-18.18	-46.28	6.84	-39.44
4	21642 PK	59.12	68.2	-9.08	-42.98	6.84	-36.14
5	39746.87 PK	60.76	74	-13.24	-41.34	6.84	-34.5
6	5260.93 AV	102.62	*		0.52	6.84	7.36
7	5098.43 AV	39	54	-15	-63.1	6.84	-56.26
8	7371.87 AV	33.98	54	-20.02	-68.12	6.84	-61.28
9	21660.68 AV	46.32	#		-55.78	6.84	-48.94
10	39701.87 AV	48.5	54	-5.5	-53.6	6.84	-46.76

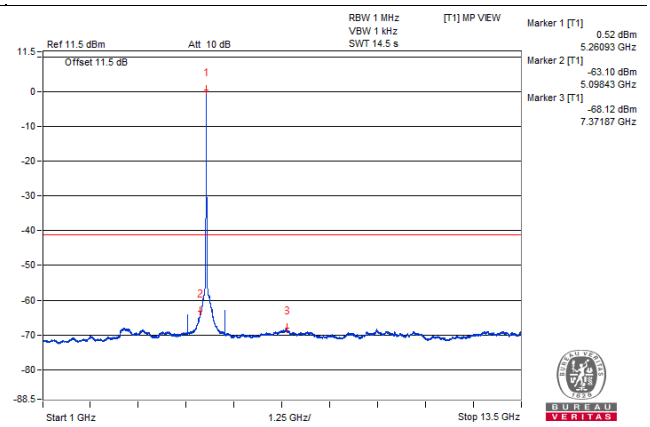
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

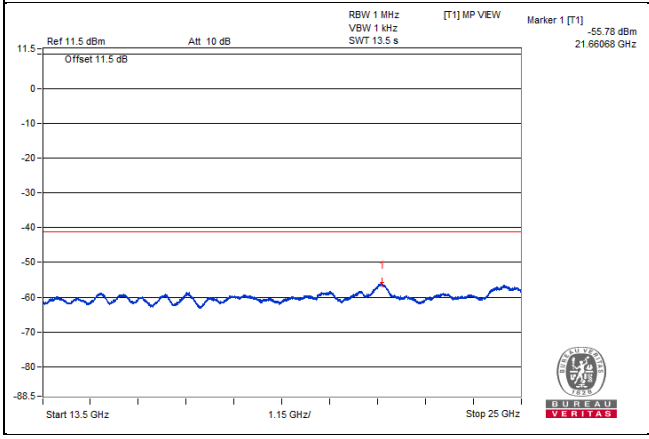
Chain 0

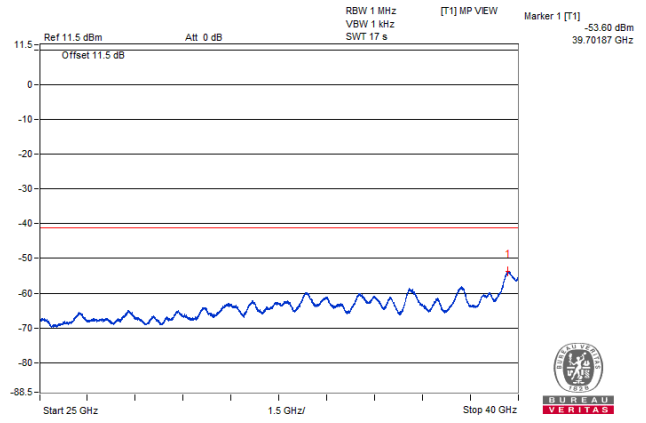

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.43 dBm
5.26250 GHz
Marker 2 [T1]
-46.02 dBm
3.61562 GHz
Marker 3 [T1]
-46.28 dBm
7.27031 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-42.98 dBm
21.64200 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.34 dBm
39.74687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.52 dBm
5.26093 GHz
Marker 2 [T1]
-63.10 dBm
5.09843 GHz
Marker 3 [T1]
-68.12 dBm
7.37187 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.78 dBm
21.66068 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

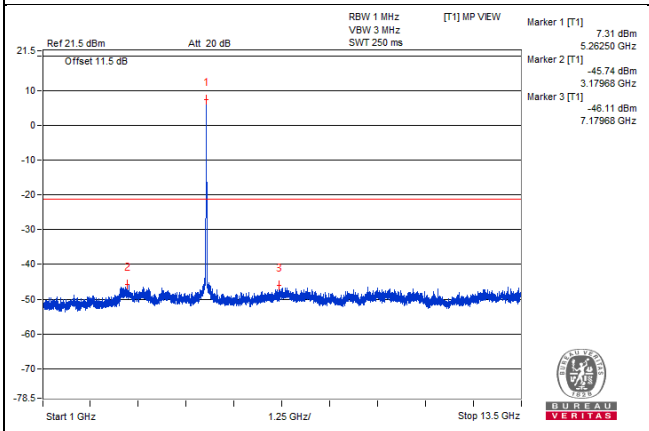

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.60 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

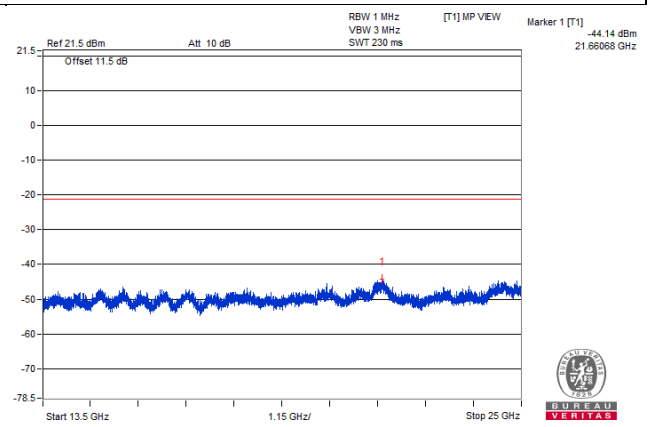
Chain 1

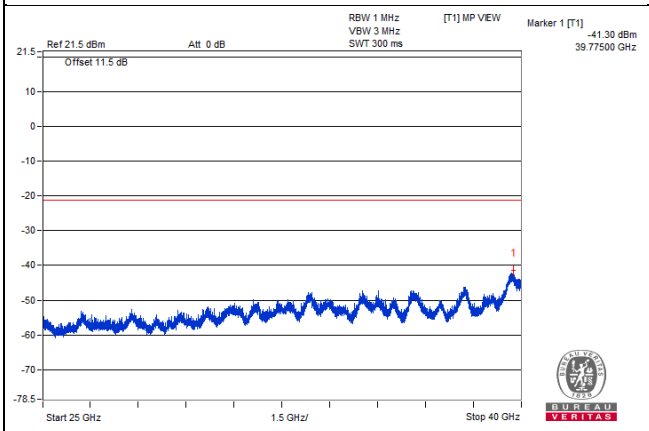
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5262.5 PK	110.84	*		7.31	8.27	15.58
2	3179.68 PK	57.79	68.2	-10.41	-45.74	8.27	-37.47
3	7179.68 PK	57.42	68.2	-10.78	-46.11	8.27	-37.84
4	21660.68 PK	59.39	68.2	-8.81	-44.14	8.27	-35.87
5	39775 PK	62.23	74	-11.77	-41.3	8.27	-33.03
6	5260.93 AV	102.4	*		-1.13	8.27	7.14
7	5100 AV	40.93	54	-13.07	-62.6	8.27	-54.33
8	10521.87 AV	35.37	#		-68.16	8.27	-59.89
9	21623.31 AV	47.55	#		-55.98	8.27	-47.71
10	39685 AV	50.07	54	-3.93	-53.46	8.27	-45.19

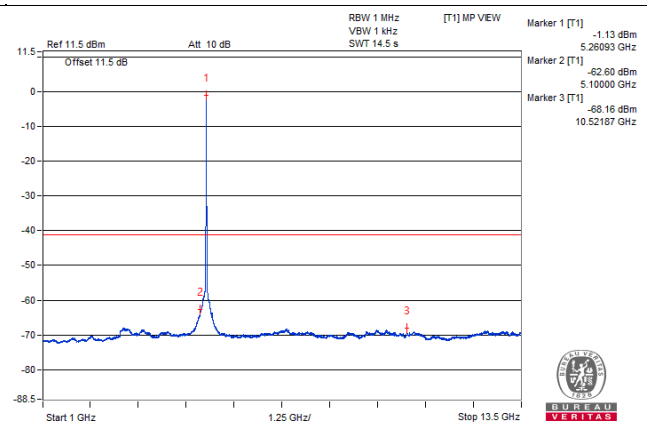
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

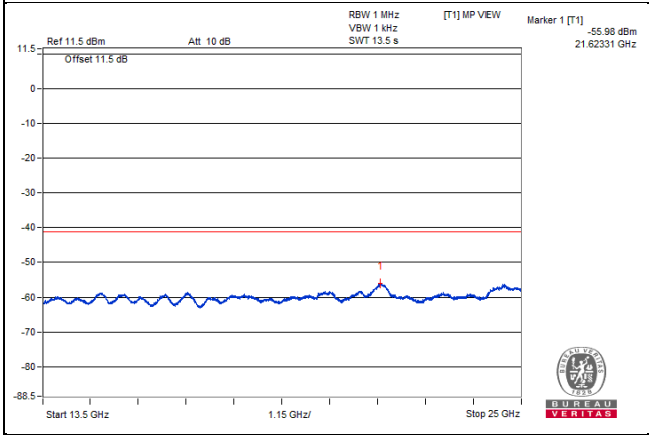
Chain 1

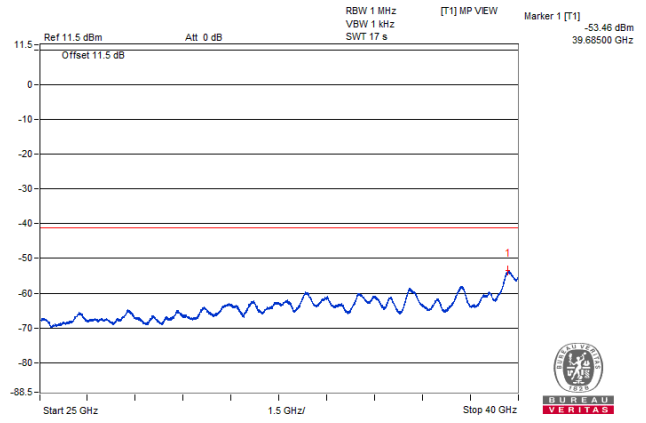

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.31 dBm
5.26250 GHz
Marker 2 [T1]
-45.74 dBm
3.17968 GHz
Marker 3 [T1]
-46.11 dBm
7.17968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.14 dBm
21.66068 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.30 dBm
39.77500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.13 dBm
5.26093 GHz
Marker 2 [T1]
-62.60 dBm
5.10000 GHz
Marker 3 [T1]
-68.16 dBm
10.52187 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.98 dBm
21.62331 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.46 dBm
39.68500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

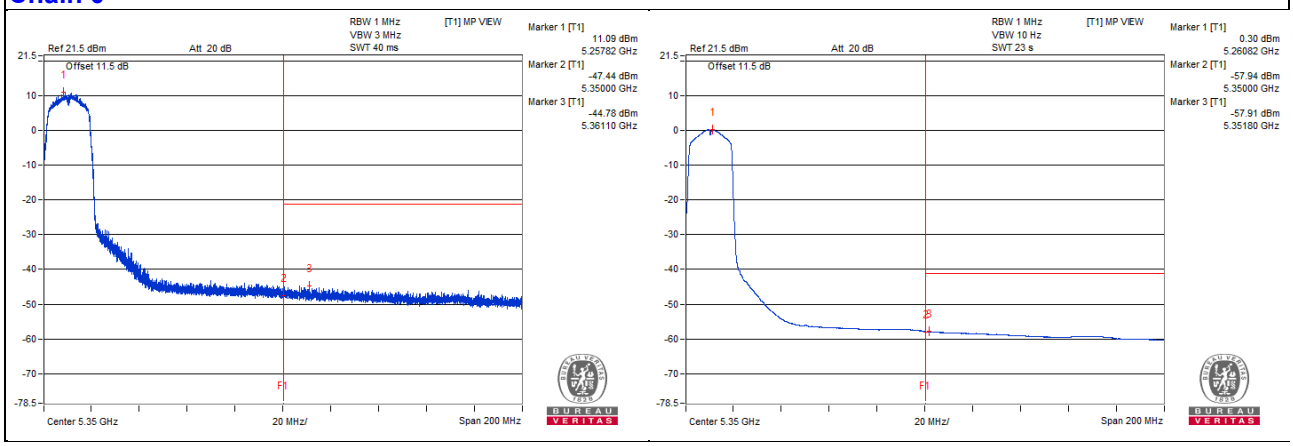
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5257.82 PK	112.8	*		11.09	6.45	17.54
2	5350 PK	54.27	74	-19.73	-47.44	6.45	-40.99
3	5361.1 PK	56.93	74	-17.07	-44.78	6.45	-38.33
4	5260.82 AV	102.01	*		0.3	6.45	6.75
5	5350 AV	43.77	54	-10.23	-57.94	6.45	-51.49
6	5351.8 AV	43.8	54	-10.2	-57.91	6.45	-51.46

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



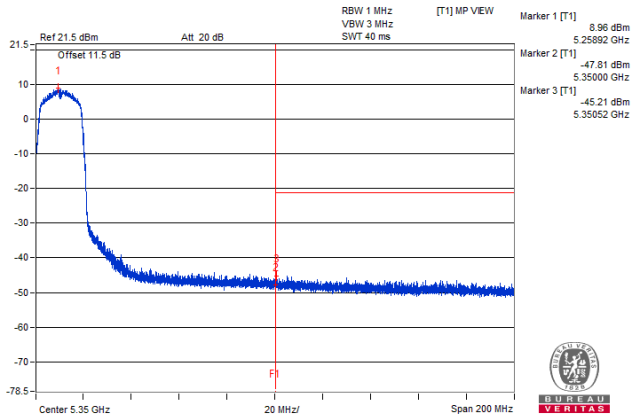
Chain 1

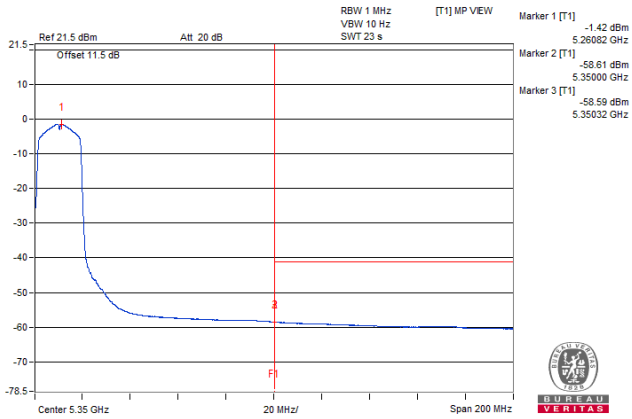
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5258.92 PK	110.37	*		8.96	6.15	15.11
2	5350 PK	53.6	74	-20.4	-47.81	6.15	-41.66
3	5350.52 PK	56.2	74	-17.8	-45.21	6.15	-39.06
4	5260.82 AV	99.99	*		-1.42	6.15	4.73
5	5350 AV	42.8	54	-11.2	-58.61	6.15	-52.46
6	5350.32 AV	42.82	54	-11.18	-58.59	6.15	-52.44

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 60

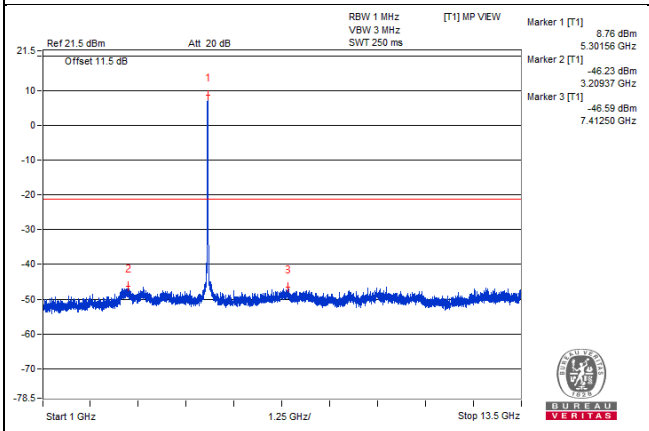
Conducted spurious emission table

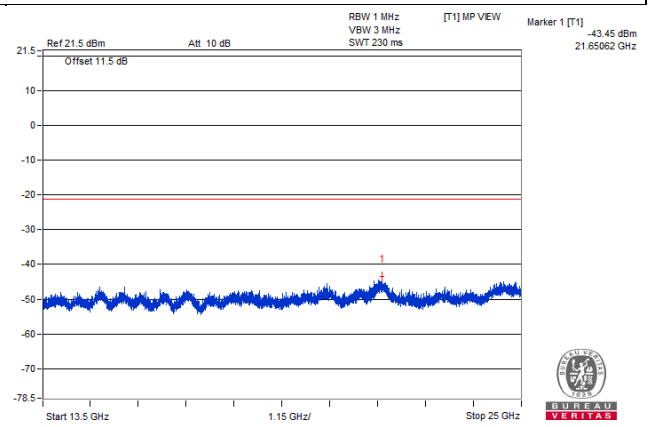
Chain 0

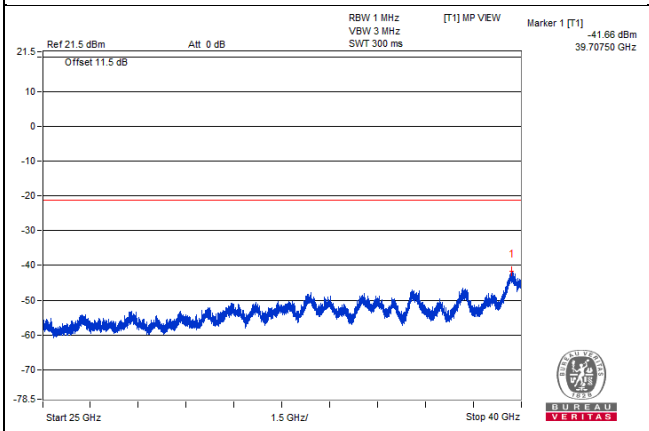
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5301.56 PK	110.86	*		8.76	6.84	15.6
2	3209.37 PK	55.87	68.2	-12.33	-46.23	6.84	-39.39
3	7412.5 PK	55.51	74	-18.49	-46.59	6.84	-39.75
4	21650.62 PK	58.65	68.2	-9.55	-43.45	6.84	-36.61
5	39707.5 PK	60.44	74	-13.56	-41.66	6.84	-34.82
6	5298.43 AV	102.79	*		0.69	6.84	7.53
7	4820.31 AV	38.34	54	-15.66	-63.76	6.84	-56.92
8	5779.68 AV	39.39	#		-62.71	6.84	-55.87
9	21683.68 AV	46.07	#		-56.03	6.84	-49.19
10	39694.37 AV	48.35	54	-5.65	-53.75	6.84	-46.91

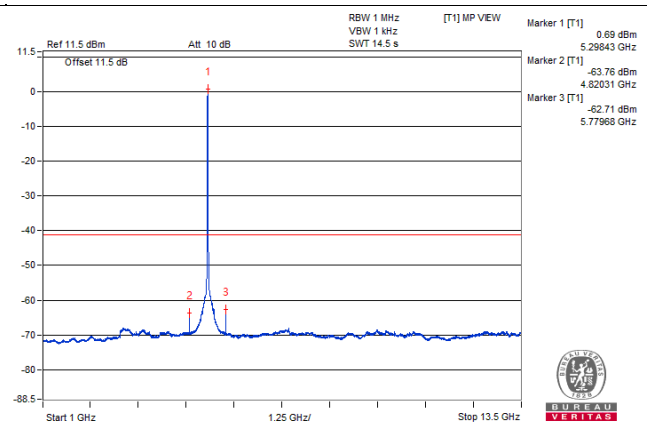
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

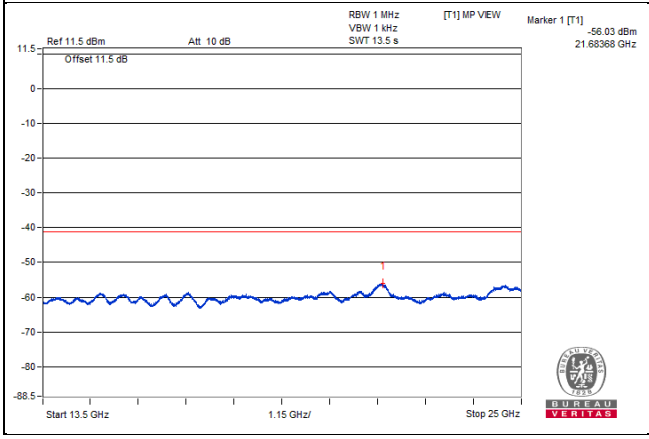
Chain 0

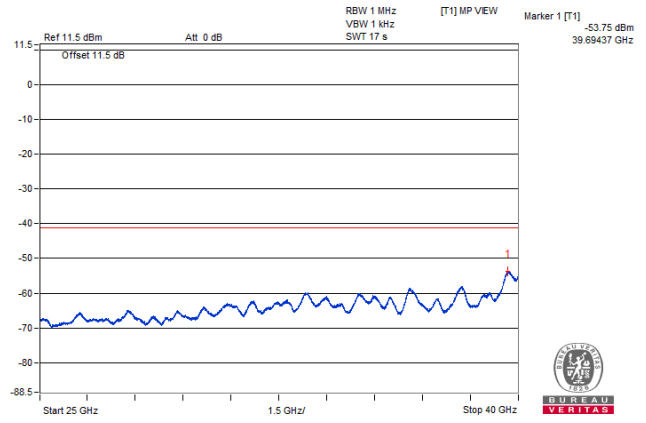

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.76 dBm
5.30156 GHz
Marker 2 [T1]
-46.23 dBm
3.20937 GHz
Marker 3 [T1]
-46.59 dBm
7.41250 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.45 dBm
21.65062 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.66 dBm
39.70750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.69 dBm
5.29843 GHz
Marker 2 [T1]
-63.76 dBm
4.82031 GHz
Marker 3 [T1]
-62.71 dBm
5.77968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.03 dBm
21.68368 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

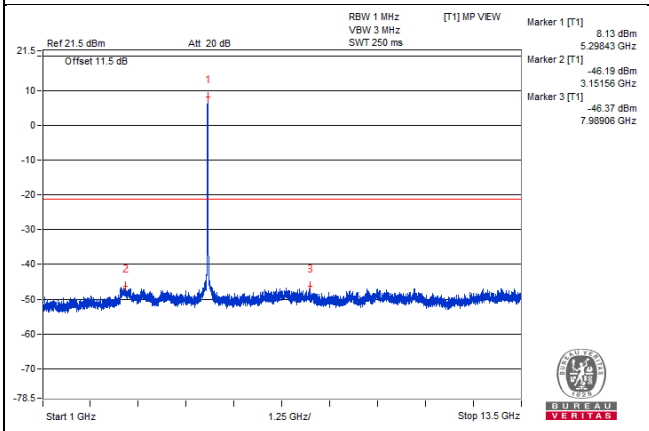

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.75 dBm
39.69437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

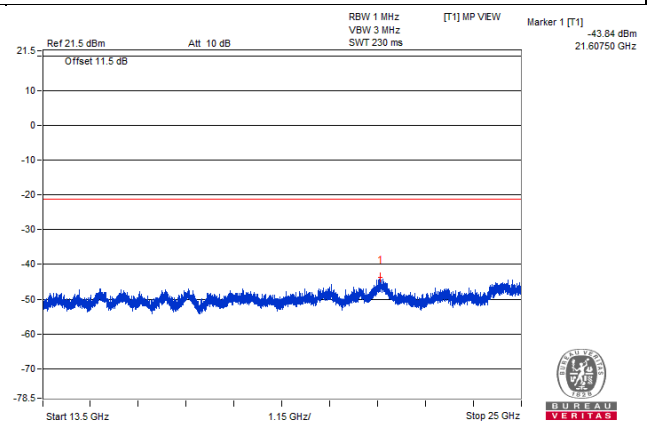
Chain 1

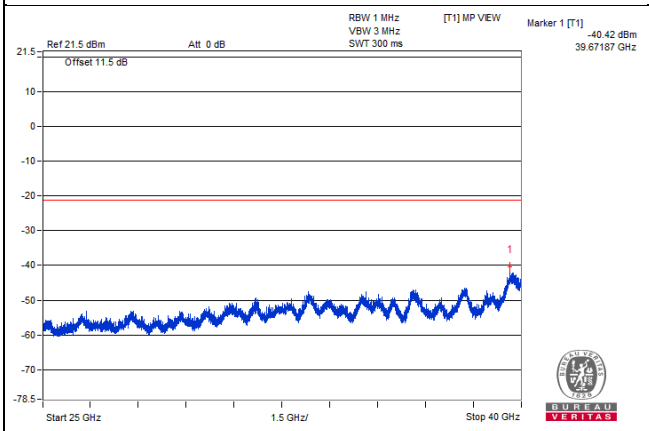
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5298.43 PK	111.66	*		8.13	8.27	16.4
2	3151.56 PK	57.34	68.2	-10.86	-46.19	8.27	-37.92
3	7989.06 PK	57.16	68.2	-11.04	-46.37	8.27	-38.1
4	21607.5 PK	59.69	68.2	-8.51	-43.84	8.27	-35.57
5	39671.87 PK	63.11	74	-10.89	-40.42	8.27	-32.15
6	5298.43 AV	103.01	*		-0.52	8.27	7.75
7	5100 AV	39.32	54	-14.68	-64.21	8.27	-55.94
8	10595.31 AV	35.39	#		-68.14	8.27	-59.87
9	21643.43 AV	47.45	#		-56.08	8.27	-47.81
10	39716.87 AV	50.06	54	-3.94	-53.47	8.27	-45.2

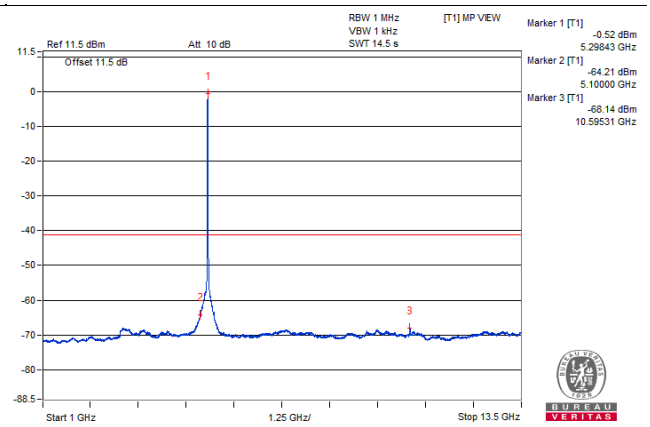
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

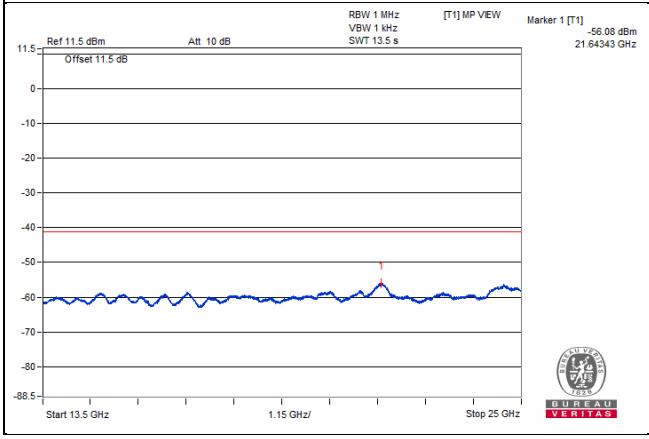
Chain 1

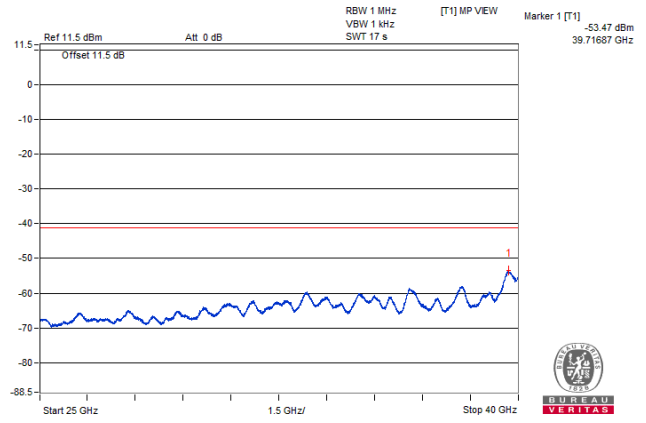

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.13 dBm
5.29843 GHz
Marker 2 [T1]
-46.19 dBm
3.15156 GHz
Marker 3 [T1]
-46.37 dBm
7.98906 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.84 dBm
21.60750 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.42 dBm
39.67187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.52 dBm
5.29843 GHz
Marker 2 [T1]
-64.21 dBm
5.10000 GHz
Marker 3 [T1]
-68.14 dBm
10.59531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.08 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.47 dBm
39.71687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

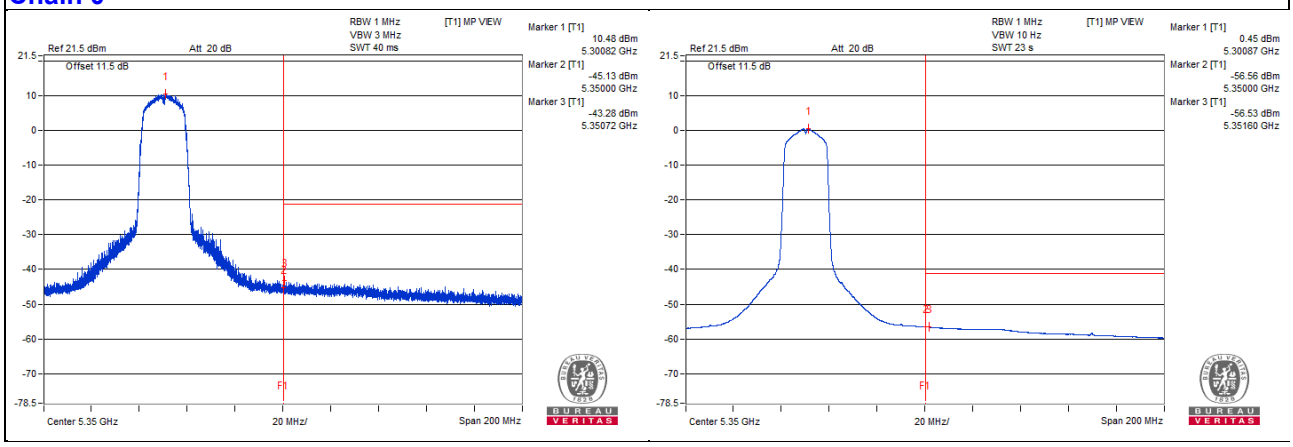
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5300.82 PK	112.19	*		10.48	6.45	16.93
2	5350 PK	56.58	74	-17.42	-45.13	6.45	-38.68
3	5350.72 PK	58.43	74	-15.57	-43.28	6.45	-36.83
4	5300.87 AV	102.16	*		0.45	6.45	6.9
5	5350 AV	45.15	54	-8.85	-56.56	6.45	-50.11
6	5351.6 AV	45.18	54	-8.82	-56.53	6.45	-50.08

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



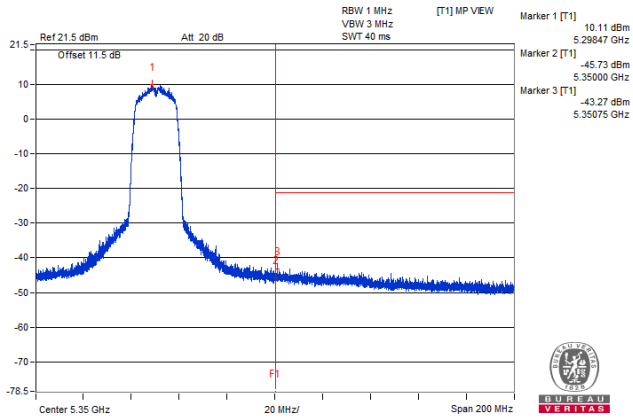
Chain 1

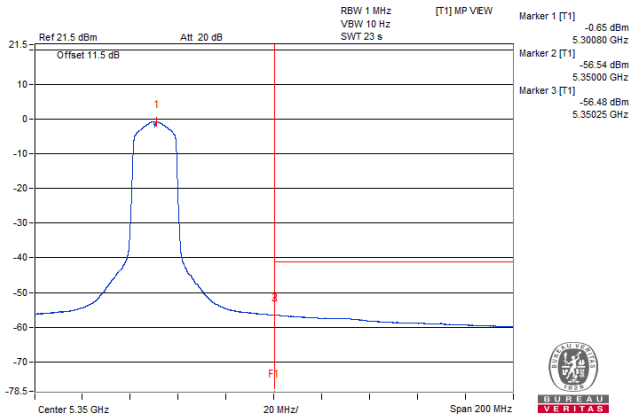
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5298.47 PK	111.52	*		10.11	6.15	16.26
2	5350 PK	55.68	74	-18.32	-45.73	6.15	-39.58
3	5350.75 PK	58.14	74	-15.86	-43.27	6.15	-37.12
4	5300.8 AV	100.76	*		-0.65	6.15	5.5
5	5350 AV	44.87	54	-9.13	-56.54	6.15	-50.39
6	5350.25 AV	44.93	54	-9.07	-56.48	6.15	-50.33

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 64

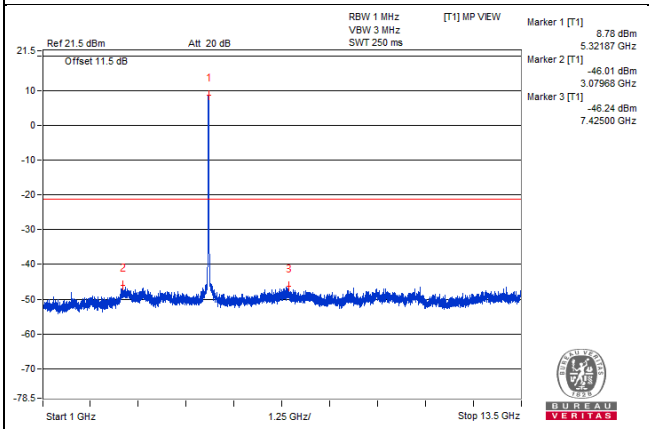
Conducted spurious emission table

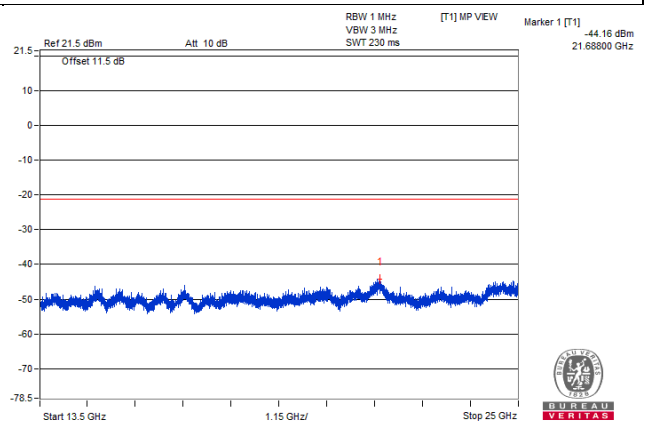
Chain 0

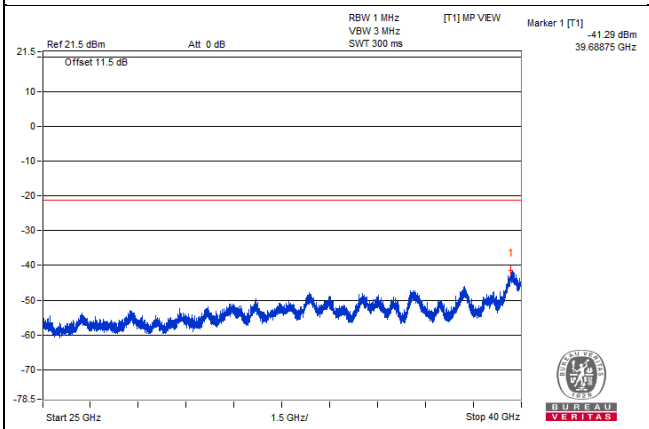
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321.87 PK	110.88	*		8.78	6.84	15.62
2	3079.68 PK	56.09	68.2	-12.11	-46.01	6.84	-39.17
3	7425 PK	55.86	74	-18.14	-46.24	6.84	-39.4
4	21688 PK	57.94	68.2	-10.26	-44.16	6.84	-37.32
5	39688.75 PK	60.81	74	-13.19	-41.29	6.84	-34.45
6	5320.31 AV	102.38	*		0.28	6.84	7.12
7	4839.06 AV	38.89	54	-15.11	-63.21	6.84	-56.37
8	5800 AV	39.49	#		-62.61	6.84	-55.77
9	21640.56 AV	46.05	#		-56.05	6.84	-49.21
10	39741.25 AV	48.45	54	-5.55	-53.65	6.84	-46.81

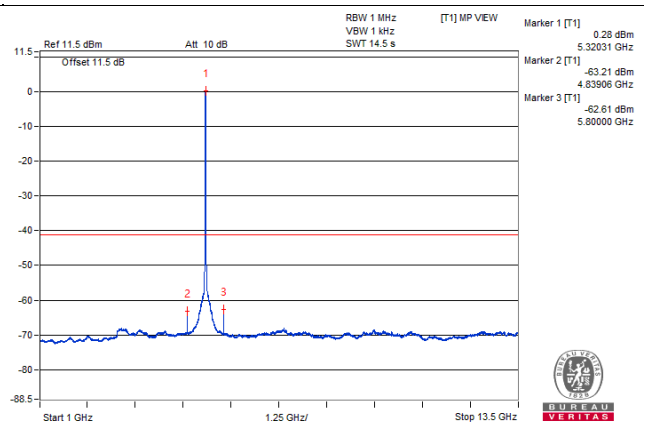
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

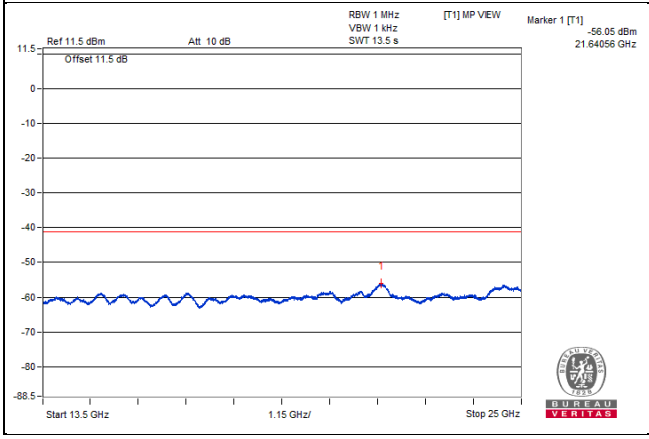
Chain 0

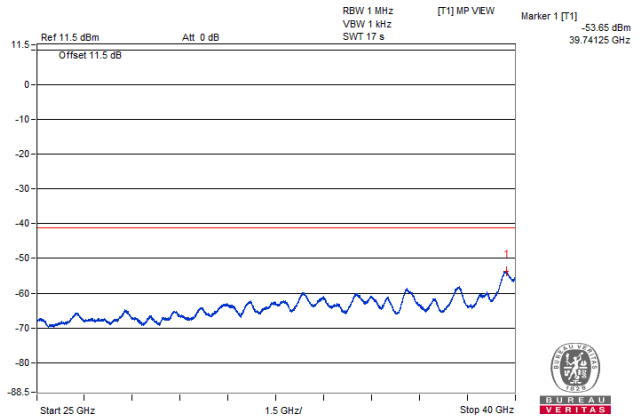

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.78 dBm
5.32187 GHz
Marker 2 [T1]
-46.01 dBm
3.07968 GHz
Marker 3 [T1]
-46.24 dBm
7.42500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.16 dBm
21.68800 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.29 dBm
39.68875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.28 dBm
5.32031 GHz
Marker 2 [T1]
-63.21 dBm
4.83906 GHz
Marker 3 [T1]
-62.61 dBm
5.80000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.05 dBm
21.64056 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

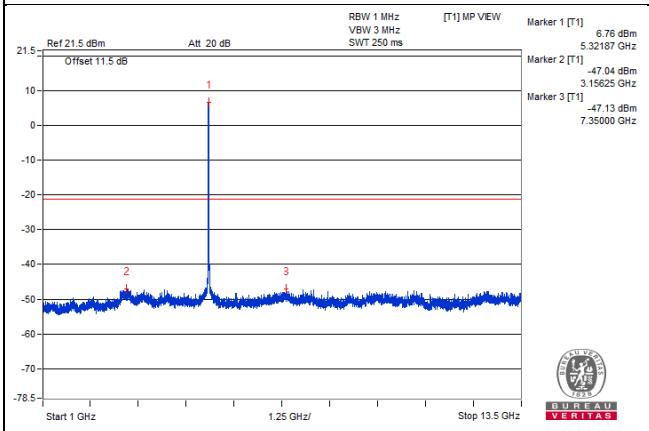

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.65 dBm
39.74125 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

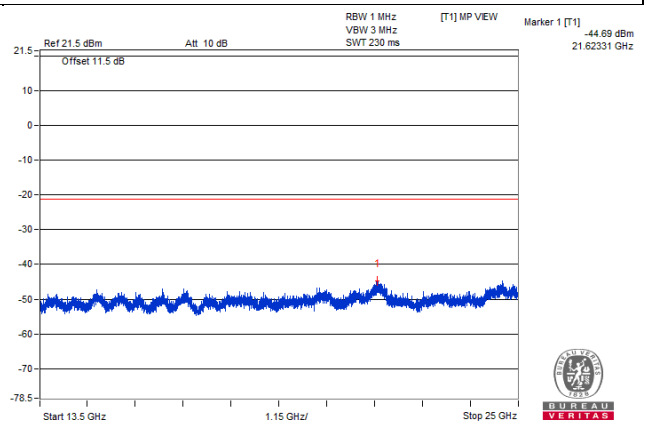
Chain 1

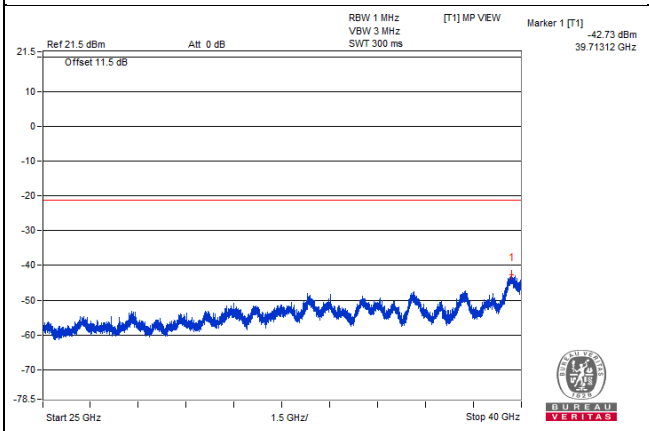
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321.87 PK	110.29	*		6.76	8.27	15.03
2	3156.25 PK	56.49	68.2	-11.71	-47.04	8.27	-38.77
3	7350 PK	56.4	74	-17.6	-47.13	8.27	-38.86
4	21623.31 PK	58.84	68.2	-9.36	-44.69	8.27	-36.42
5	39713.12 PK	60.8	74	-13.2	-42.73	8.27	-34.46
6	5318.75 AV	101.78	*		-1.75	8.27	6.52
7	5096.87 AV	37.04	54	-16.96	-66.49	8.27	-58.22
8	7342.18 AV	34.5	54	-19.5	-69.03	8.27	-60.76
9	21647.75 AV	47.01	#		-56.52	8.27	-48.25
10	39726.25 AV	49.38	54	-4.62	-54.15	8.27	-45.88

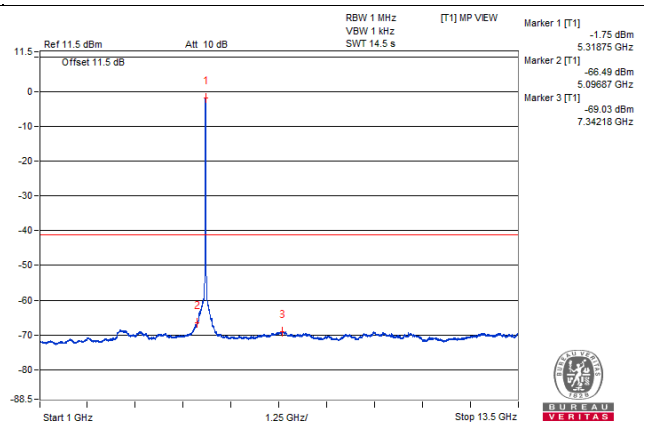
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

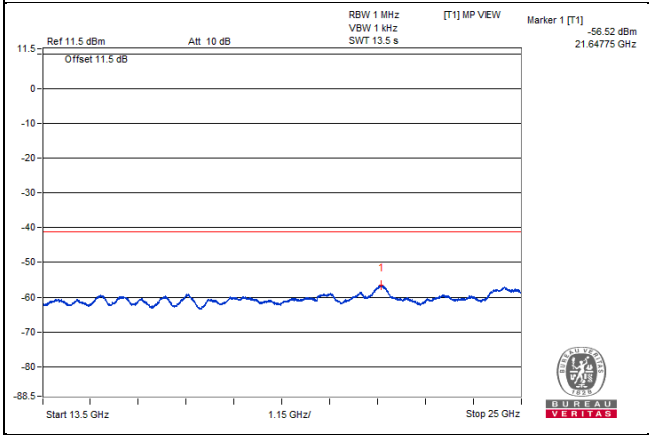
Chain 1

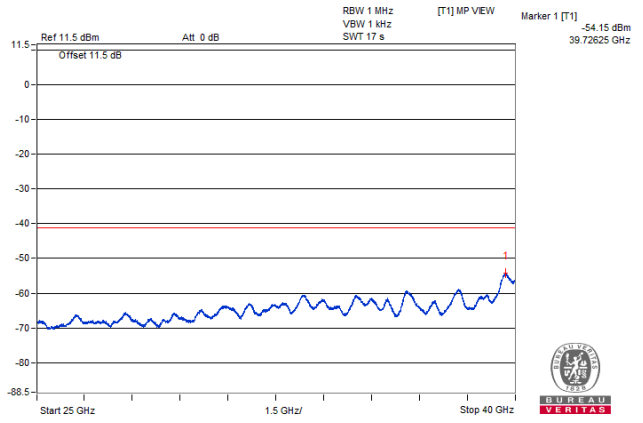

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.76 dBm
5.32187 GHz
Marker 2 [T1]
-47.04 dBm
3.15625 GHz
Marker 3 [T1]
-47.13 dBm
7.35000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.69 dBm
21.62331 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.73 dBm
39.71312 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.75 dBm
5.31875 GHz
Marker 2 [T1]
-66.49 dBm
5.09687 GHz
Marker 3 [T1]
-69.03 dBm
7.34218 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.52 dBm
21.64775 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.15 dBm
39.72625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

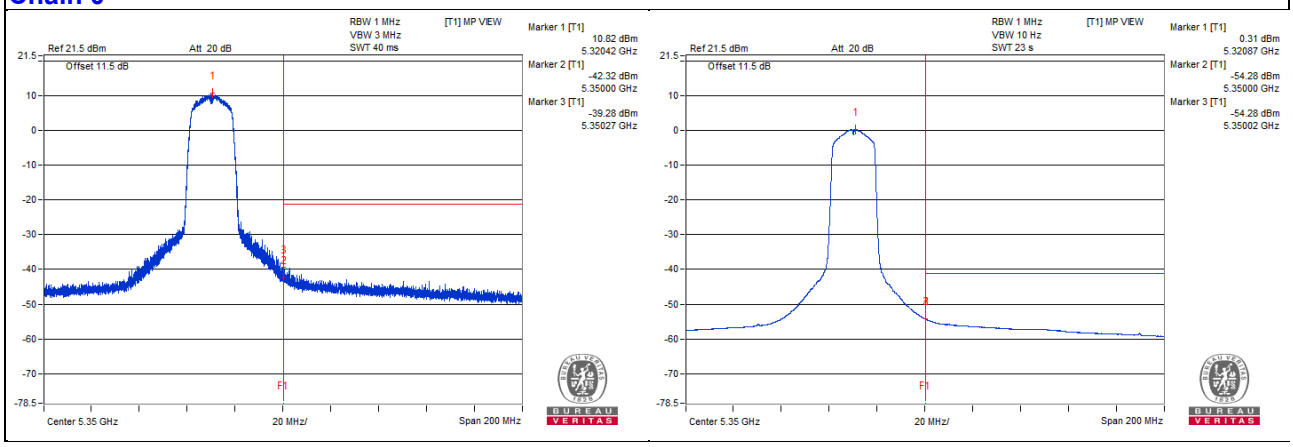
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5320.42 PK	112.53	*		10.82	6.45	17.27
2	5350 PK	59.39	74	-14.61	-42.32	6.45	-35.87
3	5350.27 PK	62.43	74	-11.57	-39.28	6.45	-32.83
4	5320.87 AV	102.02	*		0.31	6.45	6.76
5	5350 AV	47.43	54	-6.57	-54.28	6.45	-47.83
6	5350.02 AV	47.43	54	-6.57	-54.28	6.45	-47.83

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



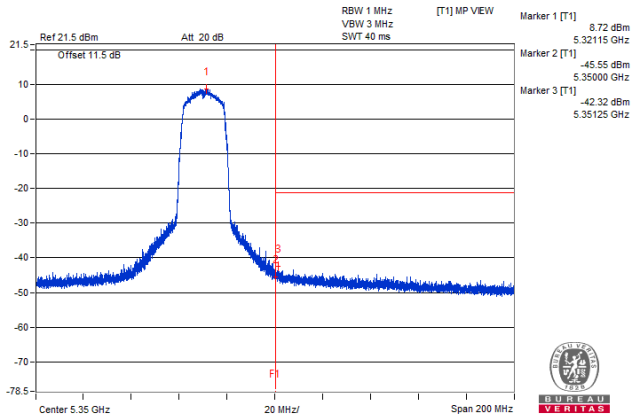
Chain 1

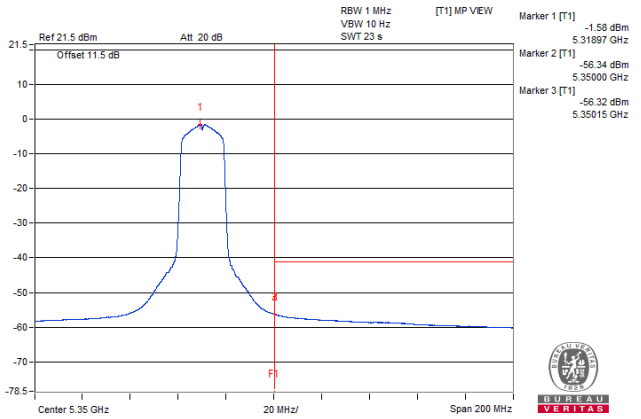
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321.15 PK	110.13	*		8.72	6.15	14.87
2	5350 PK	55.86	74	-18.14	-45.55	6.15	-39.4
3	5351.25 PK	59.09	74	-14.91	-42.32	6.15	-36.17
4	5318.97 AV	99.83	*		-1.58	6.15	4.57
5	5350 AV	45.07	54	-8.93	-56.34	6.15	-50.19
6	5350.15 AV	45.09	54	-8.91	-56.32	6.15	-50.17

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT20) - Channel 100

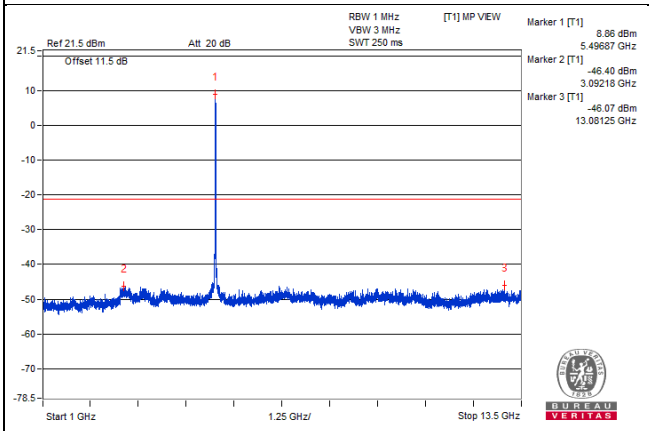
Conducted spurious emission table

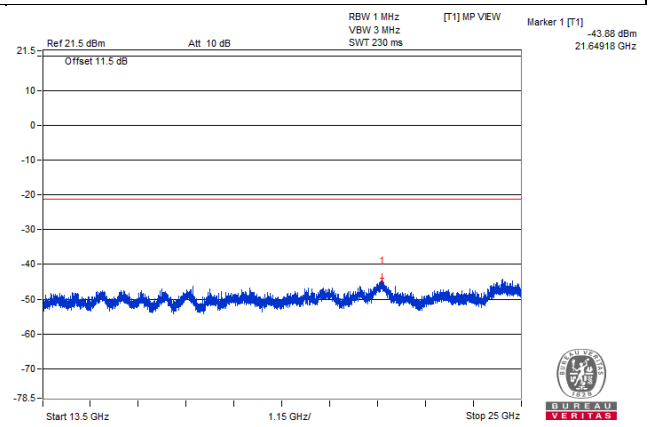
Chain 0

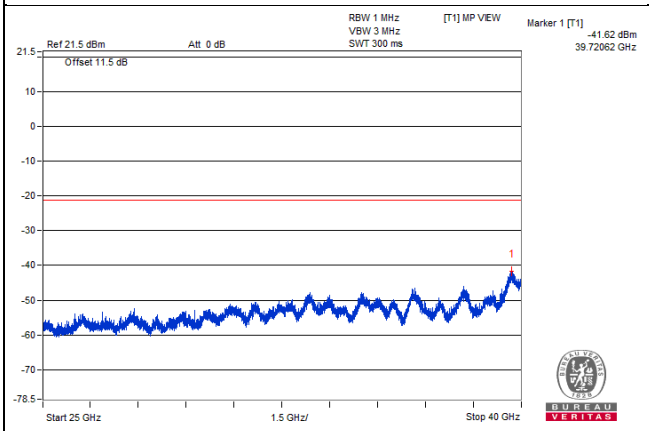
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5496.87 PK	110.96	*		8.86	6.84	15.7
2	3092.18 PK	55.7	68.2	-12.5	-46.4	6.84	-39.56
3	13081.25 PK	56.03	68.2	-12.17	-46.07	6.84	-39.23
4	21649.18 PK	58.22	68.2	-9.98	-43.88	6.84	-37.04
5	39720.62 PK	60.48	74	-13.52	-41.62	6.84	-34.78
6	5501.56 AV	101.7	*		-0.4	6.84	6.44
7	5020.31 AV	38.67	54	-15.33	-63.43	6.84	-56.59
8	5979.68 AV	38.85	#		-63.25	6.84	-56.41
9	21613.25 AV	46.08	#		-56.02	6.84	-49.18
10	39722.5 AV	48.46	54	-5.54	-53.64	6.84	-46.8

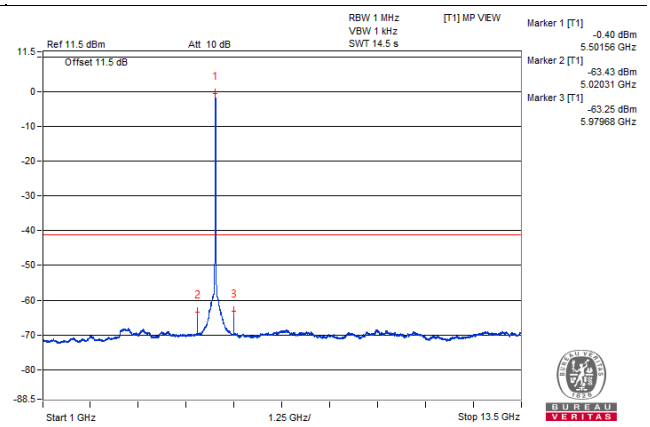
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

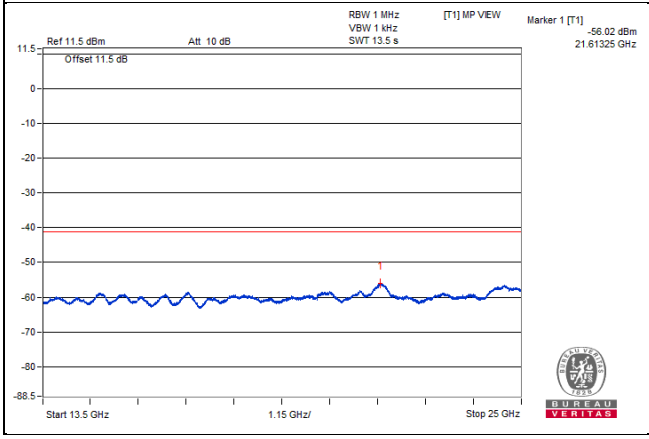
Chain 0

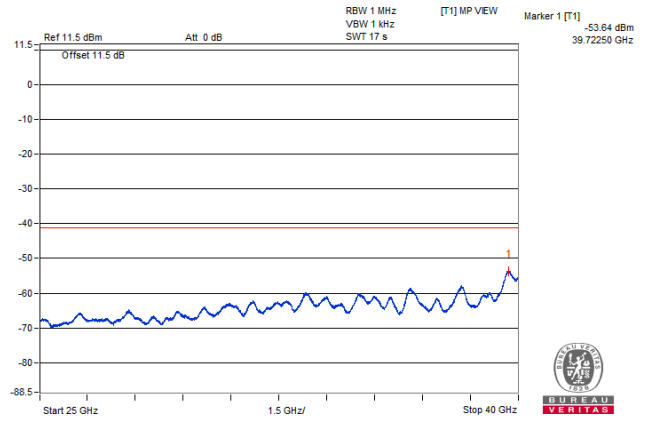

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.86 dBm
5.49687 GHz
Marker 2 [T1]
-46.40 dBm
3.09218 GHz
Marker 3 [T1]
-46.07 dBm
13.08125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.88 dBm
21.64918 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.62 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.40 dBm
5.50156 GHz
Marker 2 [T1]
-63.43 dBm
5.02031 GHz
Marker 3 [T1]
-63.25 dBm
5.97968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.02 dBm
21.61325 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.64 dBm
39.72250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

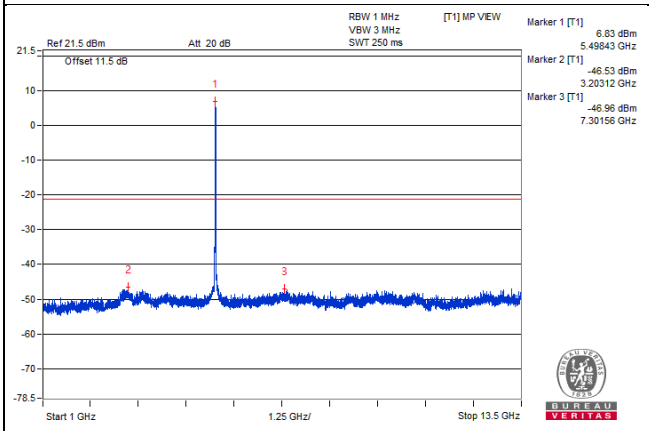
Chain 1

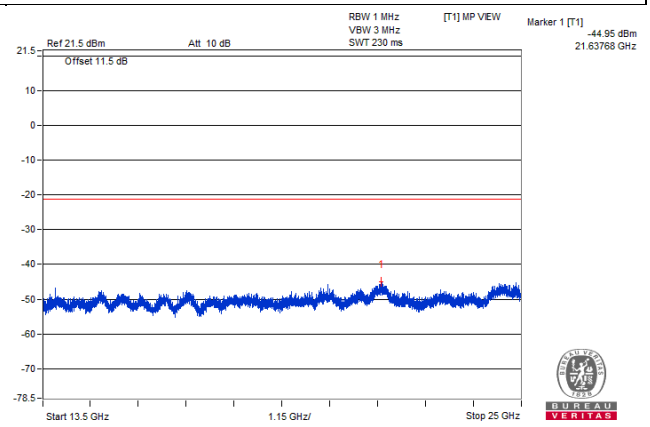
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5498.43 PK	110.36	*		6.83	8.27	15.1
2	3203.12 PK	57	68.2	-11.2	-46.53	8.27	-38.26
3	7301.56 PK	56.57	74	-17.43	-46.96	8.27	-38.69
4	21637.68 PK	58.58	68.2	-9.62	-44.95	8.27	-36.68
5	39876.25 PK	61.03	74	-12.97	-42.5	8.27	-34.23
6	5501.56 AV	101.45	*		-2.08	8.27	6.19
7	3073.43 AV	35.2	#		-68.33	8.27	-60.06
8	7351.56 AV	34.56	54	-19.44	-68.97	8.27	-60.7
9	21673.62 AV	46.88	#		-56.65	8.27	-48.38
10	39718.75 AV	49.36	54	-4.64	-54.17	8.27	-45.9

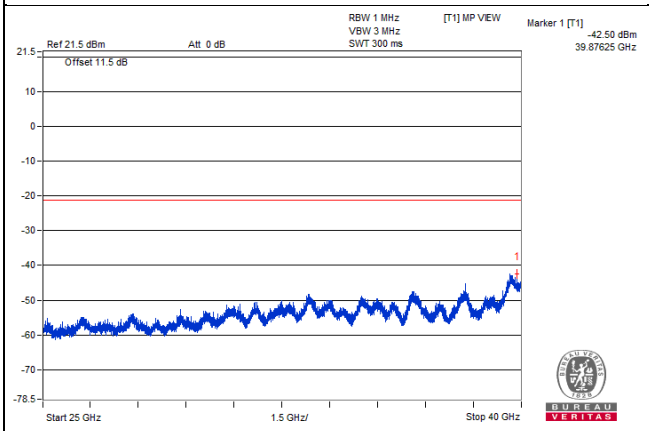
Note :

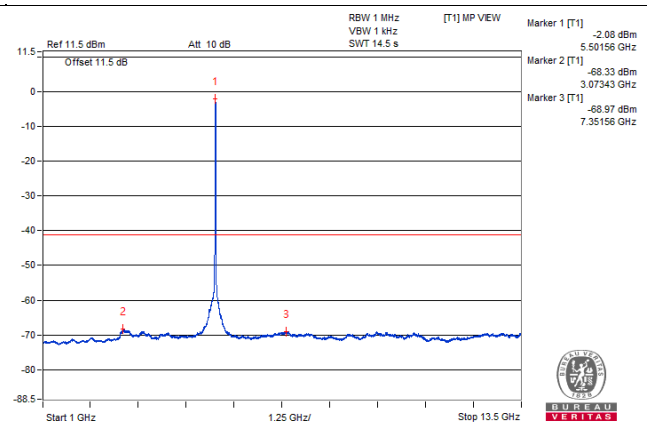
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

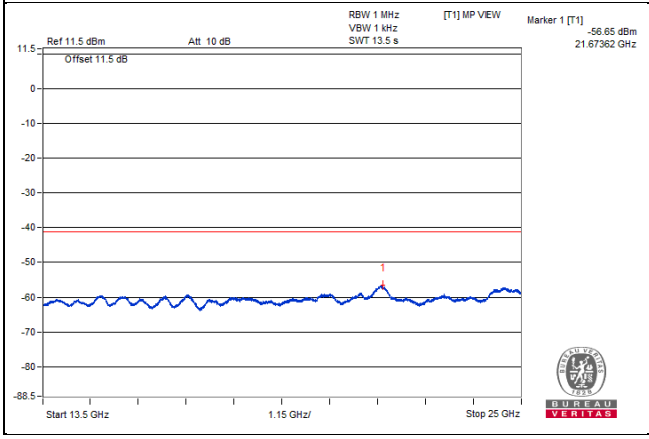
Chain 1

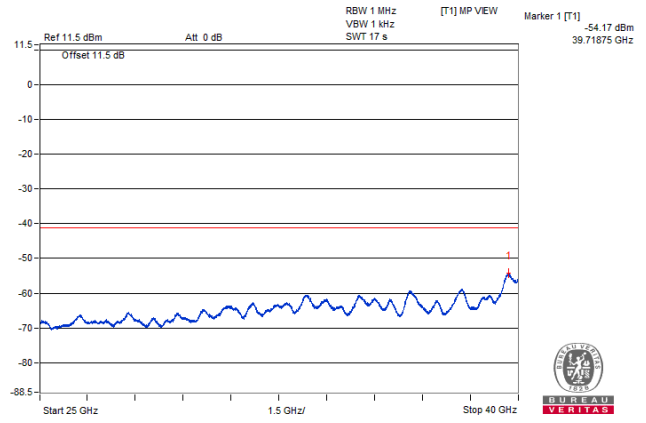

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.83 dBm
5.49843 GHz
Marker 2 [T1]
-46.53 dBm
3.20312 GHz
Marker 3 [T1]
-46.96 dBm
7.30156 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.95 dBm
21.63768 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.50 dBm
39.87625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-2.08 dBm
5.50156 GHz
Marker 2 [T1]
-68.33 dBm
3.07343 GHz
Marker 3 [T1]
-68.97 dBm
7.35156 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.65 dBm
21.67362 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.17 dBm
39.71875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

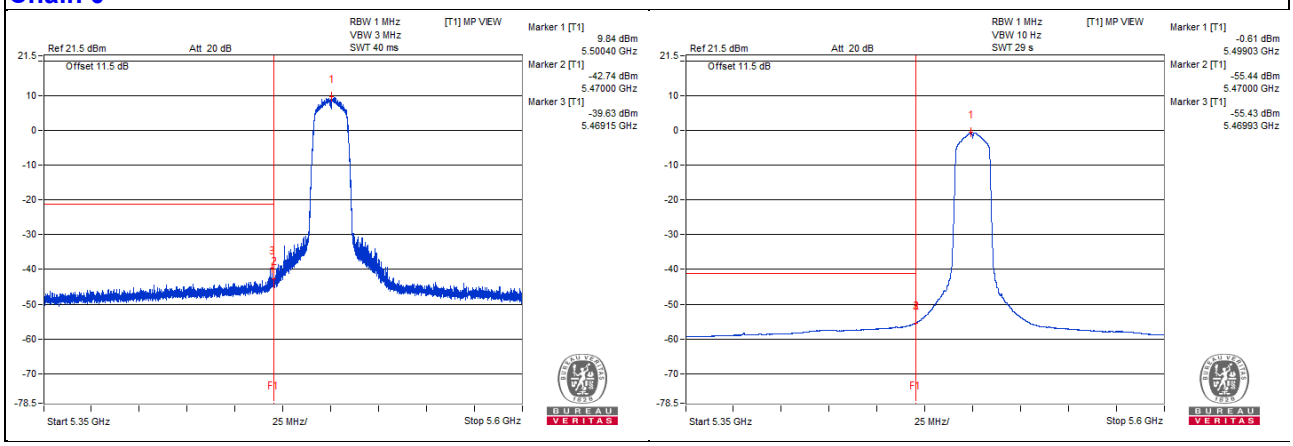
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5500.4 PK	111.94	*		9.84	6.84	16.68
2	5470 PK	59.36	68.2	-8.84	-42.74	6.84	-35.9
3	5469.15 PK	62.47	68.2	-5.73	-39.63	6.84	-32.79
4	5499.03 AV	101.49	*		-0.61	6.84	6.23
5	5470 AV	46.66	#		-55.44	6.84	-48.6
6	5469.93 AV	46.67	#		-55.43	6.84	-48.59

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



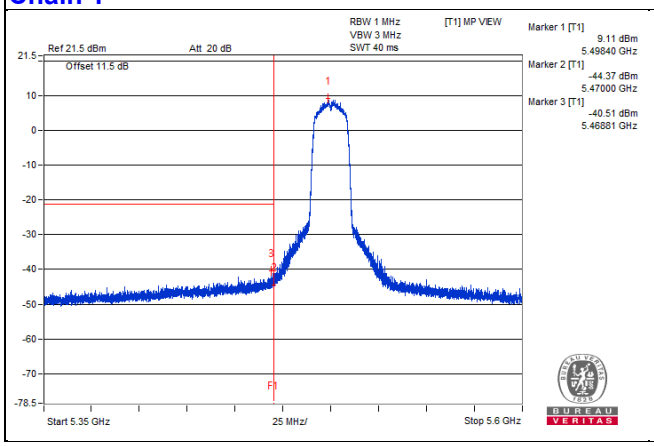
Chain 1

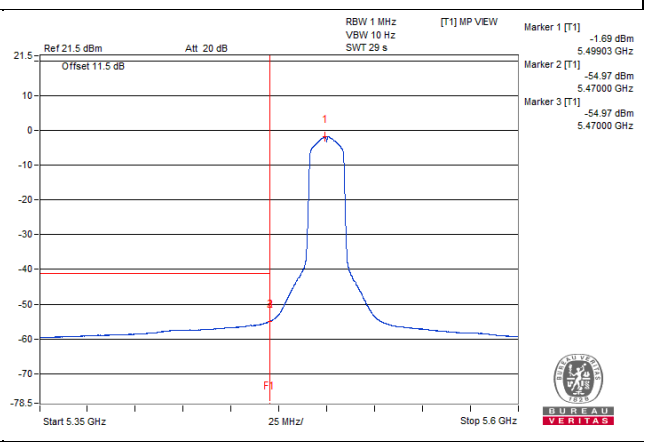
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5498.4 PK	110.17	*		9.11	5.8	14.91
2	5470 PK	56.69	68.2	-11.51	-44.37	5.8	-38.57
3	5468.81 PK	60.55	68.2	-7.65	-40.51	5.8	-34.71
4	5499.03 AV	99.37	*		-1.69	5.8	4.11
5	5470 AV	46.09	#		-54.97	5.8	-49.17
6	5470 AV	46.09	#		-54.97	5.8	-49.17

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT20) - Channel 116

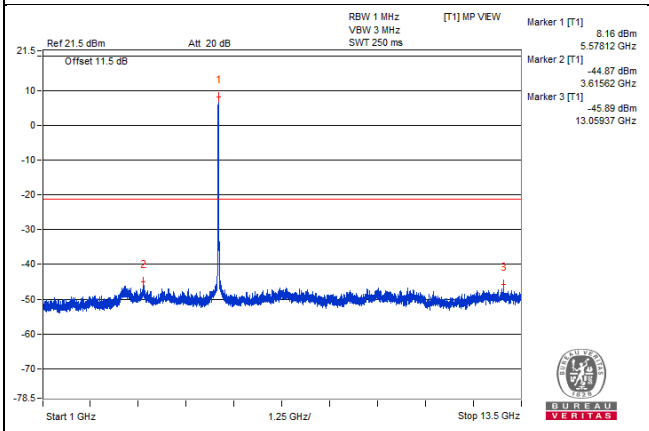
Conducted spurious emission table

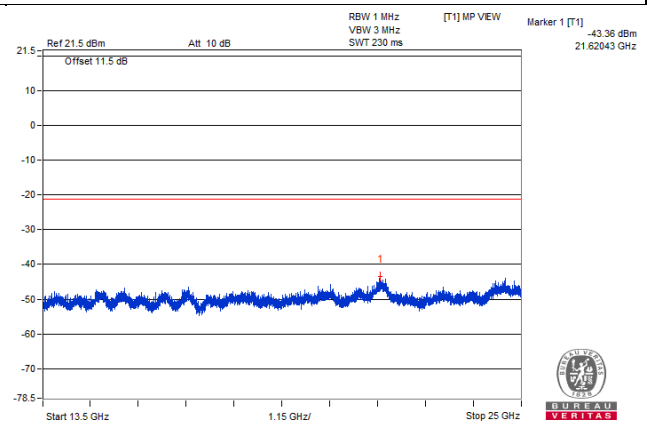
Chain 0

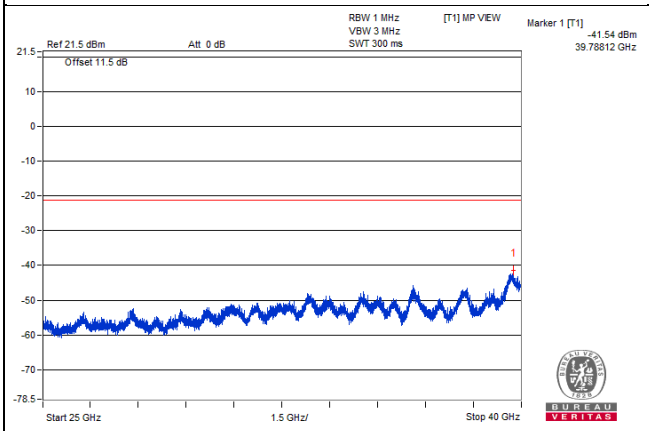
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5578.12 PK	110.26	*		8.16	6.84	15
2	3615.62 PK	57.23	74	-16.77	-44.87	6.84	-38.03
3	13059.37 PK	56.21	68.2	-11.99	-45.89	6.84	-39.05
4	21620.43 PK	58.74	68.2	-9.46	-43.36	6.84	-36.52
5	39788.12 PK	60.56	74	-13.44	-41.54	6.84	-34.7
6	5581.25 AV	101.76	*		-0.34	6.84	6.5
7	5100 AV	38.44	54	-15.56	-63.66	6.84	-56.82
8	6059.37 AV	39.29	#		-62.81	6.84	-55.97
9	21659.25 AV	46.04	#		-56.06	6.84	-49.22
10	39722.5 AV	48.58	54	-5.42	-53.52	6.84	-46.68

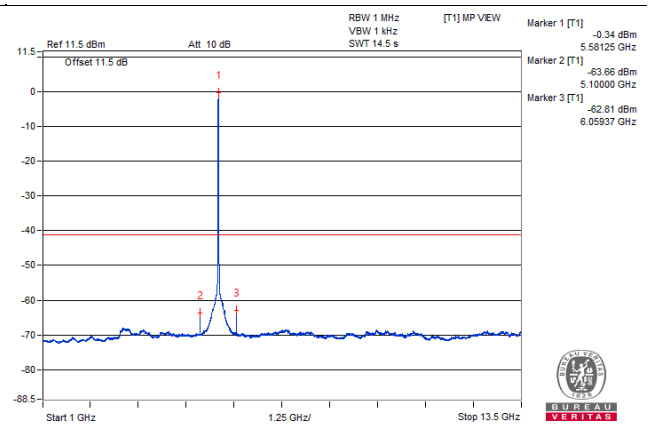
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

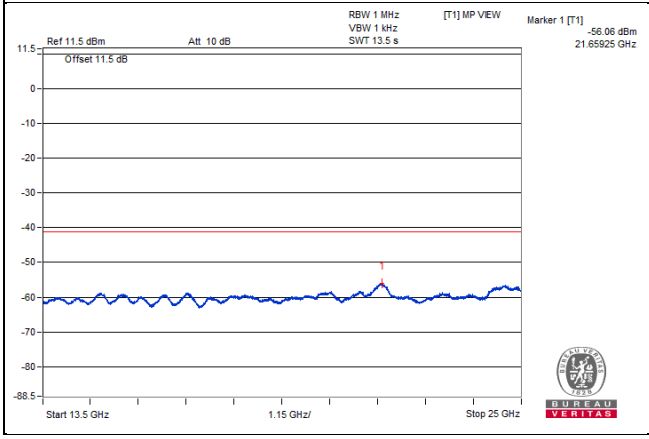
Chain 0

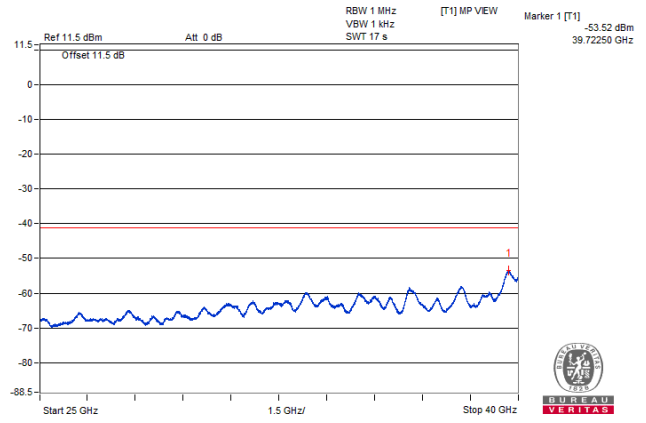

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.16 dBm
5.57812 GHz
Marker 2 [T1]
-44.87 dBm
3.61562 GHz
Marker 3 [T1]
-45.89 dBm
13.05937 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.36 dBm
21.62043 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.54 dBm
39.78812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.34 dBm
5.58125 GHz
Marker 2 [T1]
-63.66 dBm
5.10000 GHz
Marker 3 [T1]
-62.81 dBm
6.05937 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.06 dBm
21.65925 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

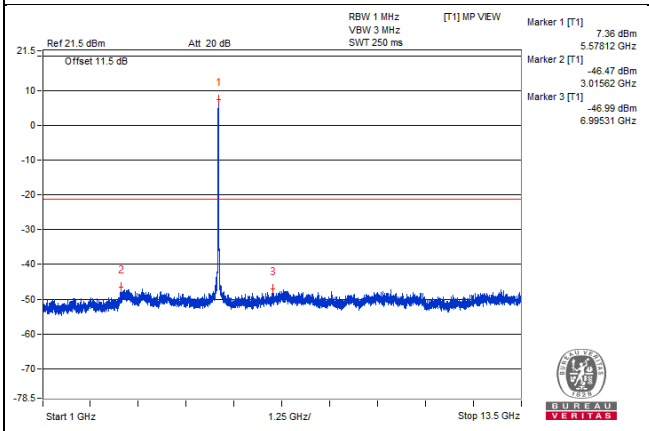

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.52 dBm
39.72250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

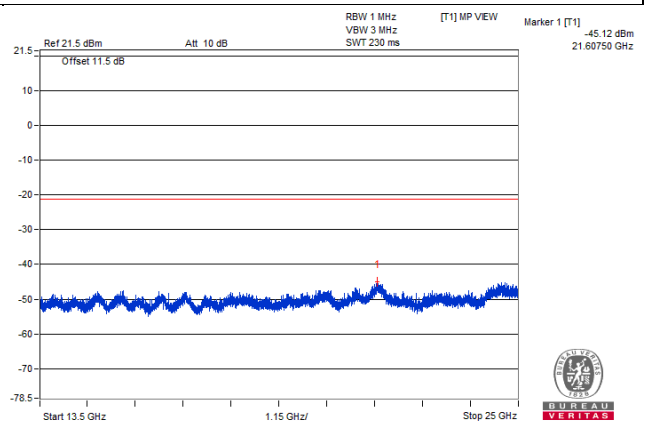
Chain 1

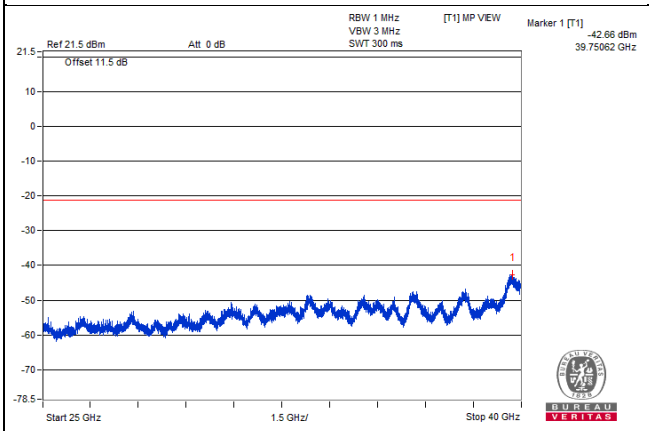
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5578.12 PK	110.89	*		7.36	8.27	15.63
2	3015.62 PK	57.06	68.2	-11.14	-46.47	8.27	-38.2
3	6995.31 PK	56.54	68.2	-11.66	-46.99	8.27	-38.72
4	21607.5 PK	58.41	68.2	-9.79	-45.12	8.27	-36.85
5	39750.62 PK	60.87	74	-13.13	-42.66	8.27	-34.39
6	5581.25 AV	102.24	*		-1.29	8.27	6.98
7	3223.43 AV	34.86	#		-68.67	8.27	-60.4
8	5779.68 AV	36.66	#		-66.87	8.27	-58.6
9	21631.93 AV	46.76	#		-56.77	8.27	-48.5
10	39690.62 AV	49.33	54	-4.67	-54.2	8.27	-45.93

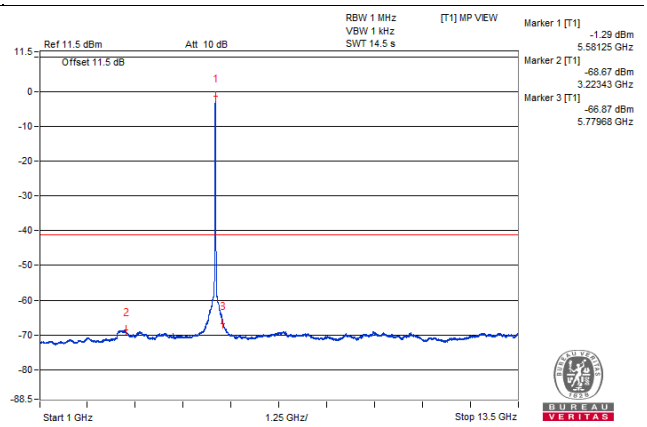
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

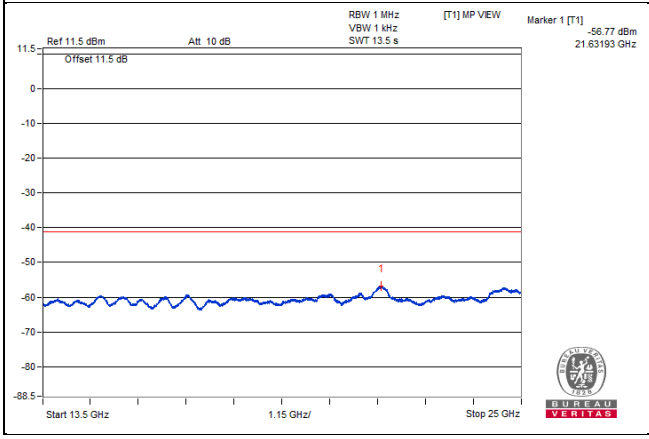
Chain 1

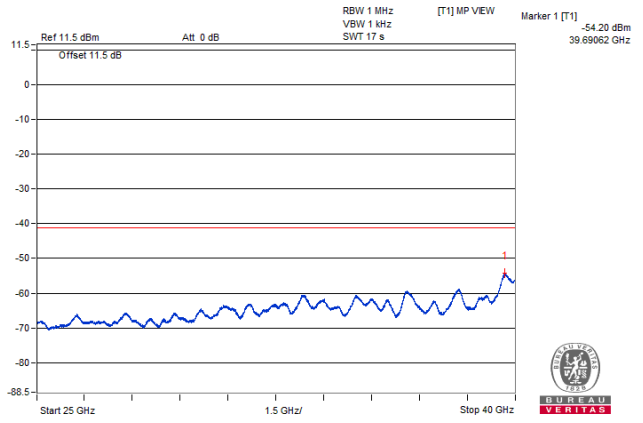

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.36 dBm
5.57812 GHz
Marker 2 [T1]
-46.47 dBm
3.01562 GHz
Marker 3 [T1]
-46.99 dBm
6.99531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.12 dBm
21.60750 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.66 dBm
39.75062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.29 dBm
5.58125 GHz
Marker 2 [T1]
-68.67 dBm
3.22343 GHz
Marker 3 [T1]
-66.87 dBm
5.77968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.77 dBm
21.63193 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.20 dBm
39.69062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

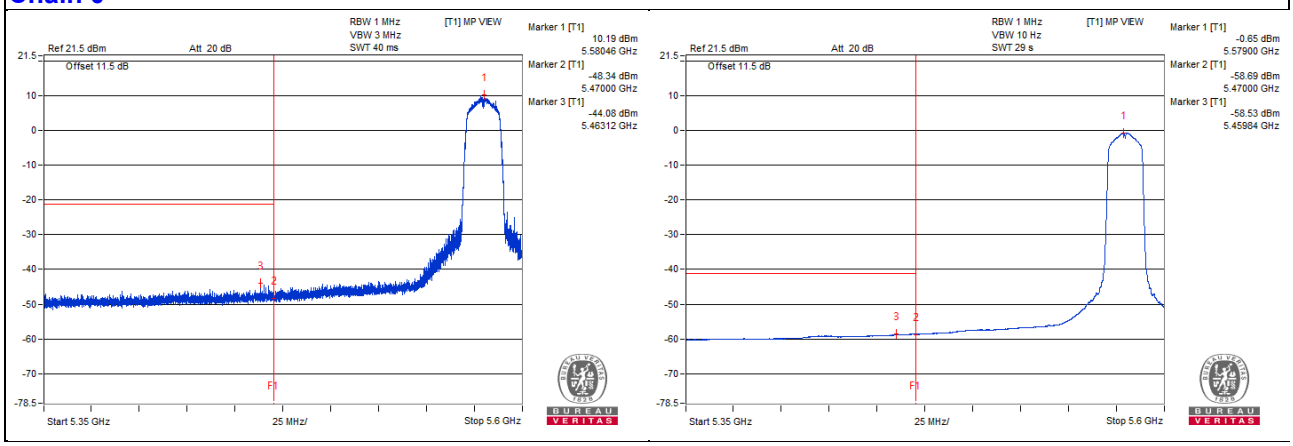
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5580.46 PK	112.29	*		10.19	6.84	17.03
2	5470 PK	53.76	68.2	-14.44	-48.34	6.84	-41.5
3	5463.12 PK	58.02	68.2	-10.18	-44.08	6.84	-37.24
4	5579 AV	101.45	*		-0.65	6.84	6.19
5	5470 AV	43.41	#		-58.69	6.84	-51.85
6	5459.84 AV	43.57	54	-10.43	-58.53	6.84	-51.69

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



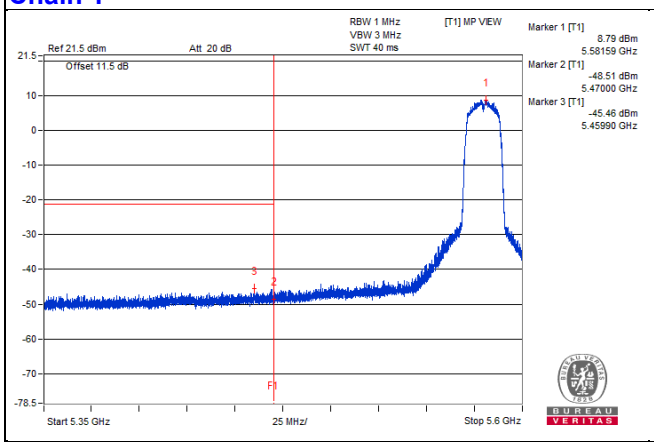
Chain 1

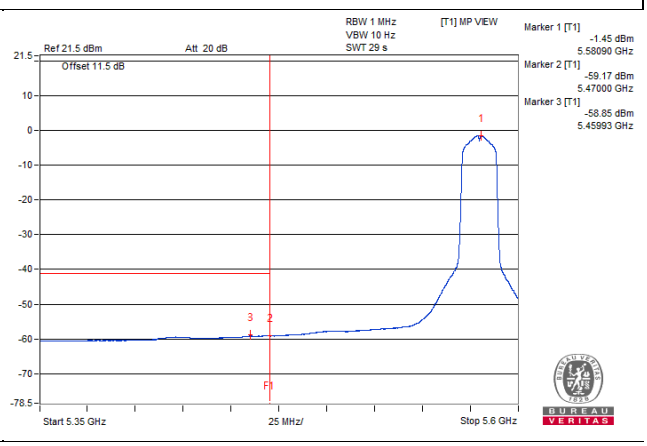
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5581.59 PK	109.85	*		8.79	5.8	14.59
2	5470 PK	52.55	68.2	-15.65	-48.51	5.8	-42.71
3	5459.9 PK	55.6	74	-18.4	-45.46	5.8	-39.66
4	5580.9 AV	99.61	*		-1.45	5.8	4.35
5	5470 AV	41.89	#		-59.17	5.8	-53.37
6	5459.93 AV	42.21	54	-11.79	-58.85	5.8	-53.05

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT20) - Channel 140

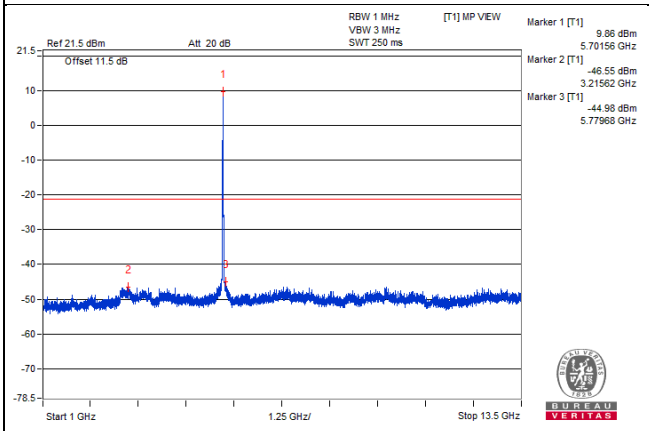
Conducted spurious emission table

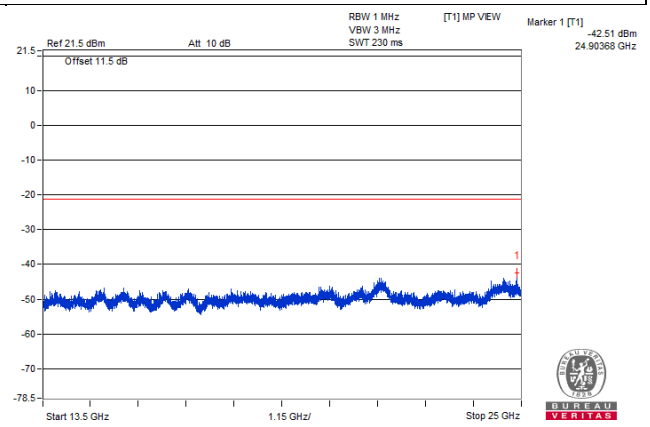
Chain 0

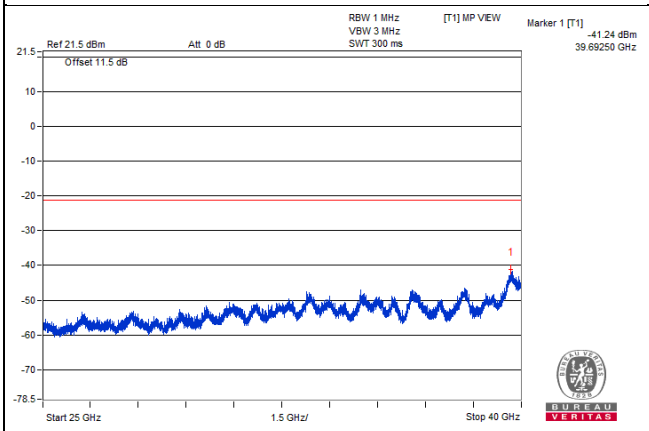
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5701.56 PK	111.96	*		9.86	6.84	16.7
2	3215.62 PK	55.55	68.2	-12.65	-46.55	6.84	-39.71
3	5779.68 PK	57.12	68.2	-11.08	-44.98	6.84	-38.14
4	24903.68 PK	59.59	68.2	-8.61	-42.51	6.84	-35.67
5	39692.5 PK	60.86	74	-13.14	-41.24	6.84	-34.4
6	5701.56 AV	102.6	*		0.5	6.84	7.34
7	3106.25 AV	33.97	#		-68.13	6.84	-61.29
8	5775 AV	42.74	#		-59.36	6.84	-52.52
9	21689.43 AV	46.12	#		-55.98	6.84	-49.14
10	39735.62 AV	48.58	54	-5.42	-53.52	6.84	-46.68

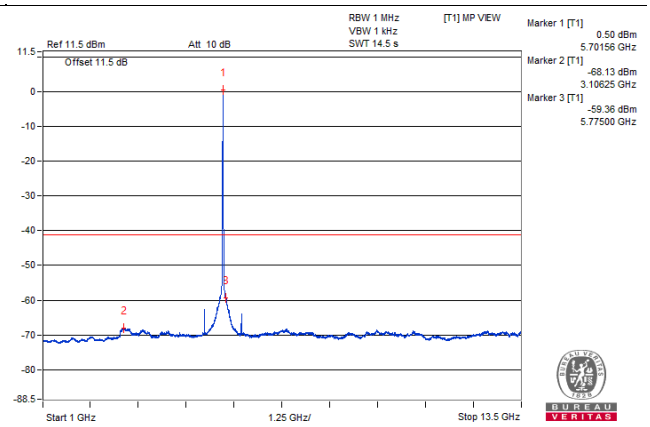
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

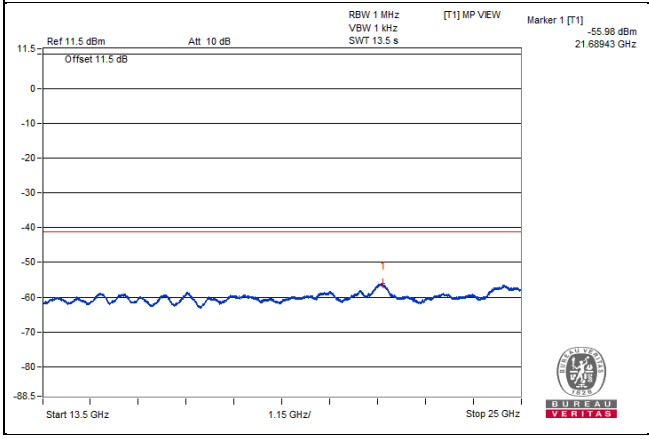
Chain 0

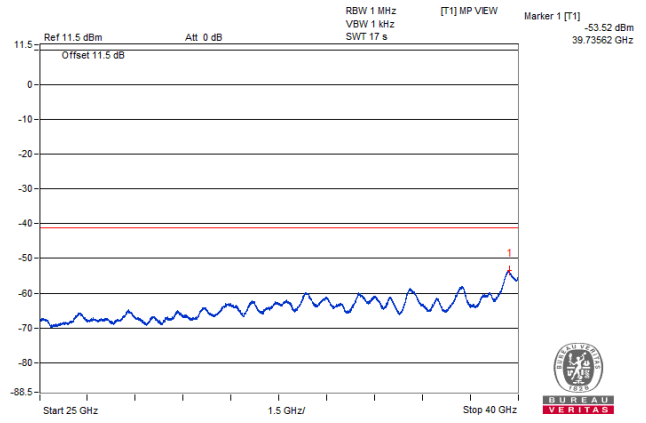

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.86 dBm
5.70156 GHz
Marker 2 [T1]
-46.55 dBm
3.21562 GHz
Marker 3 [T1]
-44.98 dBm
5.77968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-42.51 dBm
24.90368 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.24 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.50 dBm
5.70156 GHz
Marker 2 [T1]
-68.13 dBm
3.10625 GHz
Marker 3 [T1]
-59.36 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.98 dBm
21.68943 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

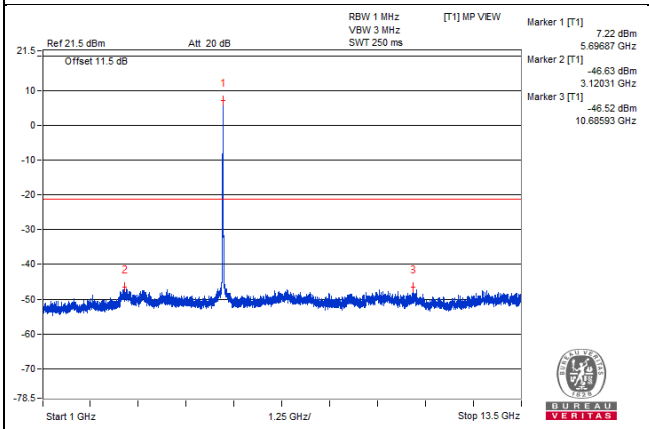

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.52 dBm
39.73562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

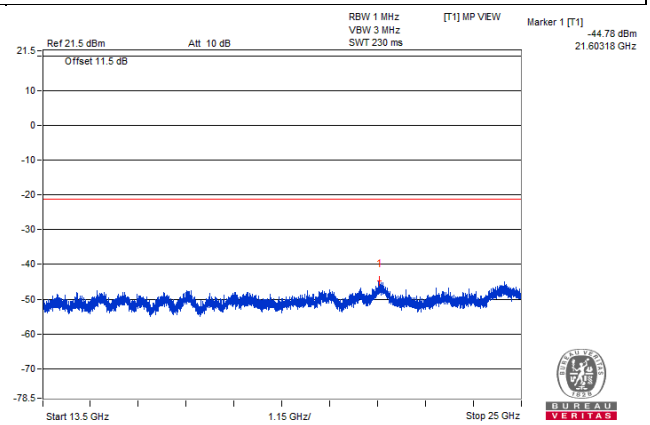
Chain 1

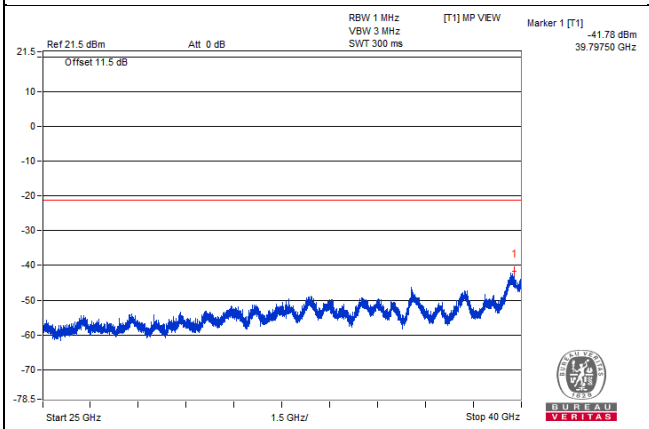
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5696.87 PK	110.75	*		7.22	8.27	15.49
2	3120.31 PK	56.9	68.2	-11.3	-46.63	8.27	-38.36
3	10685.93 PK	57.01	74	-16.99	-46.52	8.27	-38.25
4	21603.18 PK	58.75	68.2	-9.45	-44.78	8.27	-36.51
5	39797.5 PK	61.75	74	-12.25	-41.78	8.27	-33.51
6	5700 AV	102.2	*		-1.33	8.27	6.94
7	4559.37 AV	39.76	54	-14.24	-63.77	8.27	-55.5
8	5778.12 AV	43.16	#		-60.37	8.27	-52.1
9	21649.18 AV	46.89	#		-56.64	8.27	-48.37
10	39726.25 AV	49.21	54	-4.79	-54.32	8.27	-46.05

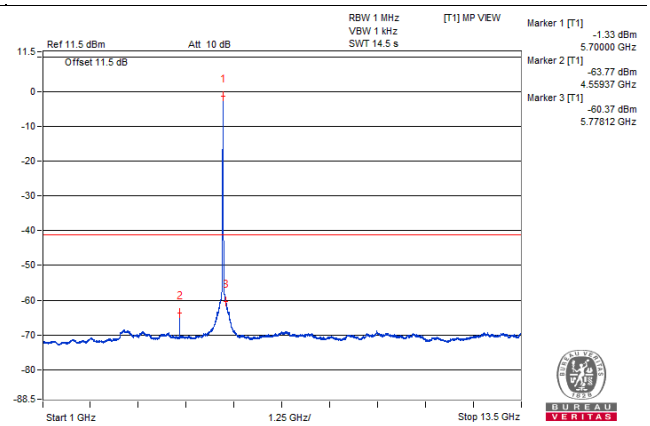
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

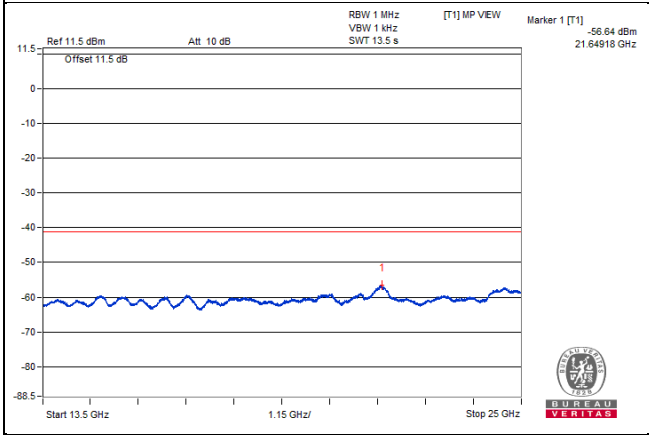
Chain 1

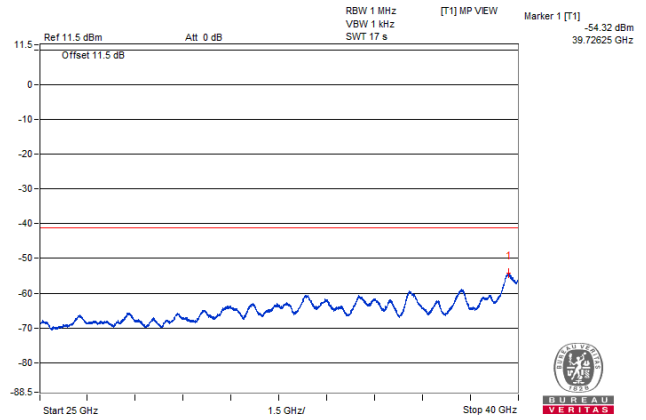

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.22 dBm
5.69687 GHz
Marker 2 [T1]
-46.63 dBm
3.12031 GHz
Marker 3 [T1]
-46.52 dBm
10.68593 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.78 dBm
21.60318 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.78 dBm
39.79750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.33 dBm
5.70000 GHz
Marker 2 [T1]
-63.77 dBm
4.55937 GHz
Marker 3 [T1]
-60.37 dBm
5.77812 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.64 dBm
21.64918 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.32 dBm
39.72625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

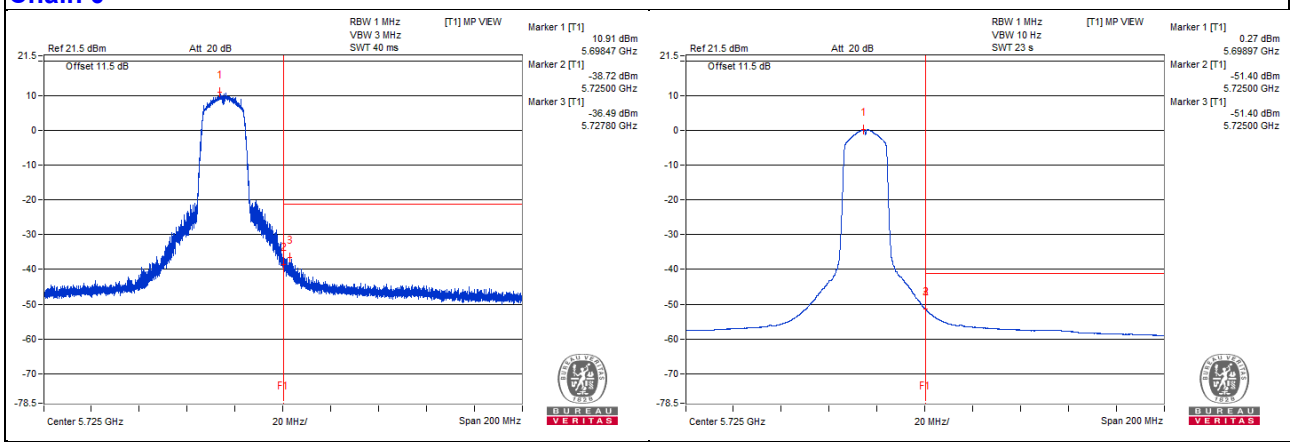
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5698.47 PK	113.01	*		10.91	6.84	17.75
2	5725 PK	63.38	68.2	-4.82	-38.72	6.84	-31.88
3	5727.8 PK	65.61	68.2	-2.59	-36.49	6.84	-29.65
4	5698.97 AV	102.37	*		0.27	6.84	7.11
5	5725 AV	50.7	#		-51.4	6.84	-44.56
6	5725 AV	50.7	#		-51.4	6.84	-44.56

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



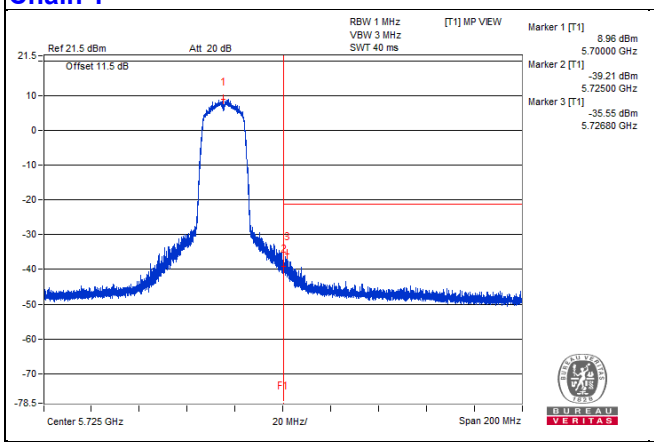
Chain 1

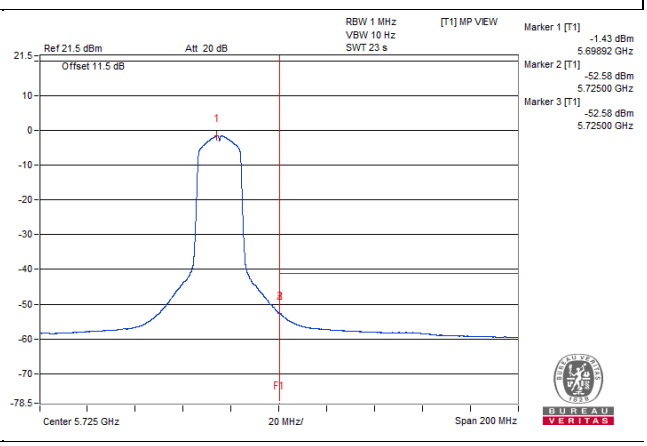
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5700 PK	110.02	*		8.96	5.8	14.76
2	5725 PK	61.85	68.2	-6.35	-39.21	5.8	-33.41
3	5726.8 PK	65.51	68.2	-2.69	-35.55	5.8	-29.75
4	5698.92 AV	99.63	*		-1.43	5.8	4.37
5	5725 AV	48.48	#		-52.58	5.8	-46.78
6	5725 AV	48.48	#		-52.58	5.8	-46.78

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT20) - Channel 144

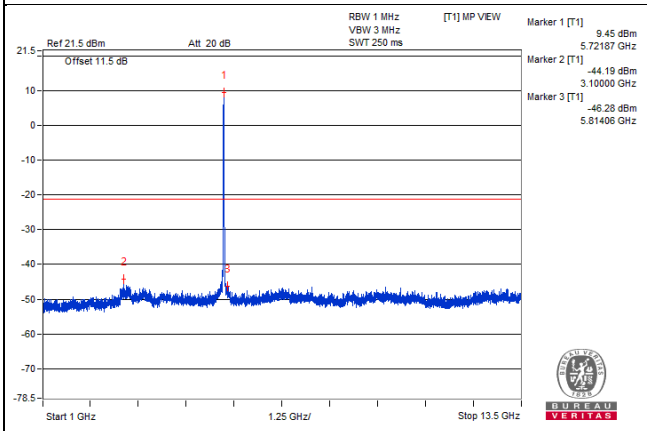
Conducted spurious emission table

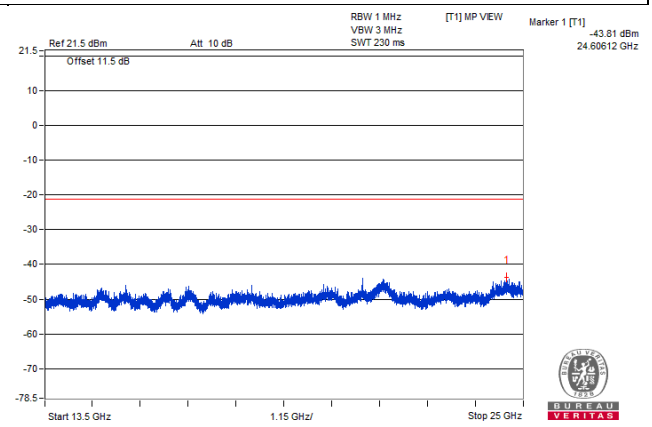
Chain 0

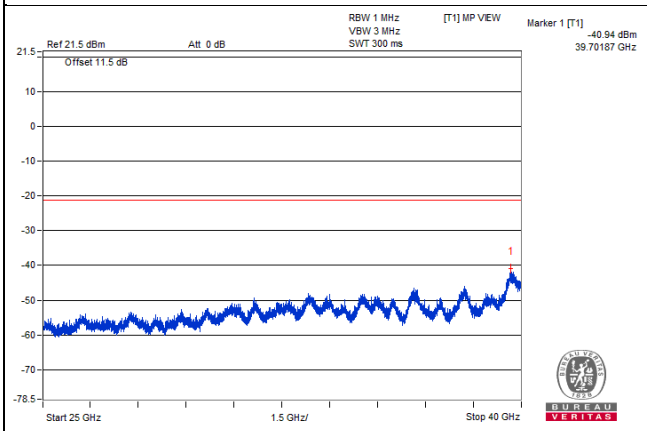
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5721.87 PK	111.55	*		9.45	6.84	16.29
2	3100 PK	57.91	68.2	-10.29	-44.19	6.84	-37.35
3	5814.06 PK	55.82	68.2	-12.38	-46.28	6.84	-39.44
4	24606.12 PK	58.29	68.2	-9.91	-43.81	6.84	-36.97
5	39701.87 PK	61.16	74	-12.84	-40.94	6.84	-34.1
6	5720.31 AV	102.35	*		0.25	6.84	7.09
7	3104.68 AV	34.32	#		-67.78	6.84	-60.94
8	5775 AV	43.27	#		-58.83	6.84	-51.99
9	21643.43 AV	46.03	#		-56.07	6.84	-49.23
10	39703.75 AV	48.52	54	-5.48	-53.58	6.84	-46.74

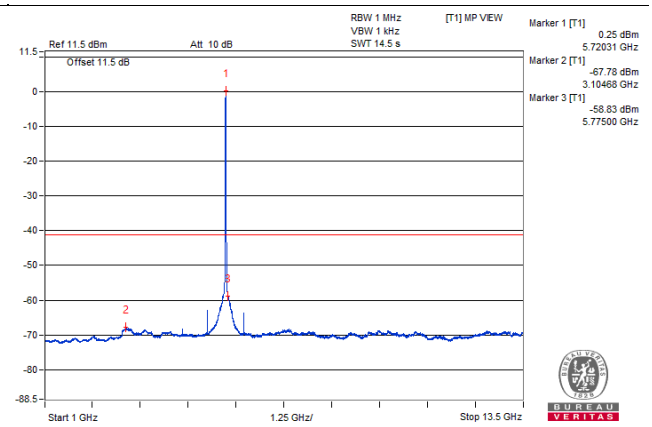
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

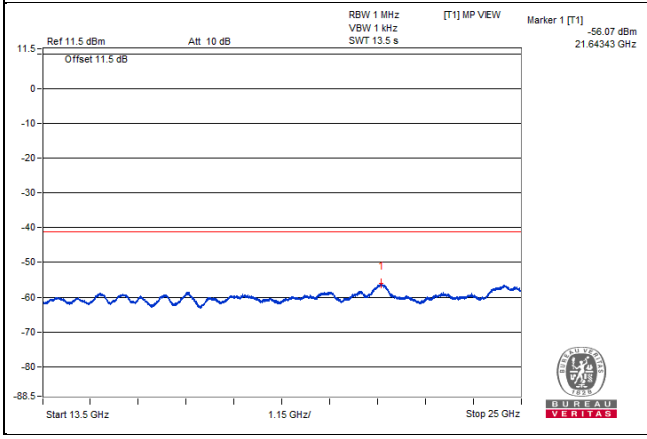
Chain 0

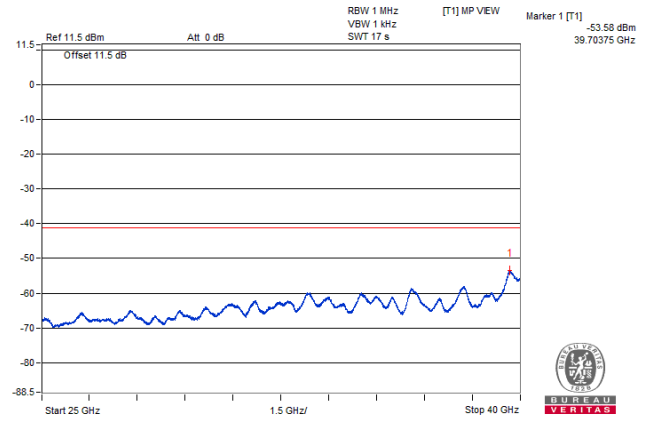

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.45 dBm
5.72187 GHz
Marker 2 [T1]
-44.19 dBm
3.10000 GHz
Marker 3 [T1]
-46.28 dBm
5.81406 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.81 dBm
24.60612 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.94 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.25 dBm
5.72031 GHz
Marker 2 [T1]
-67.78 dBm
3.10468 GHz
Marker 3 [T1]
-58.83 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.07 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

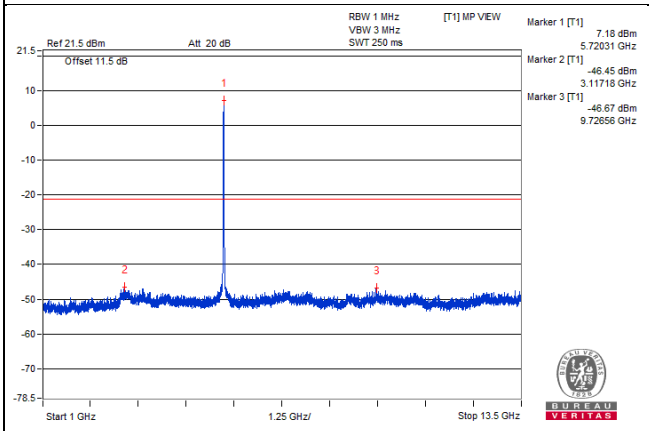

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.58 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

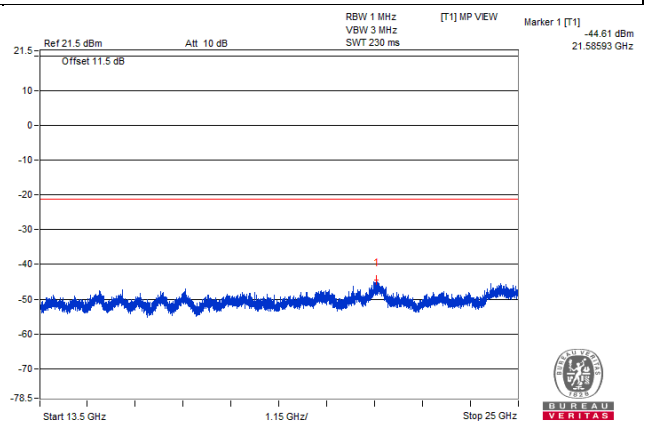
Chain 1

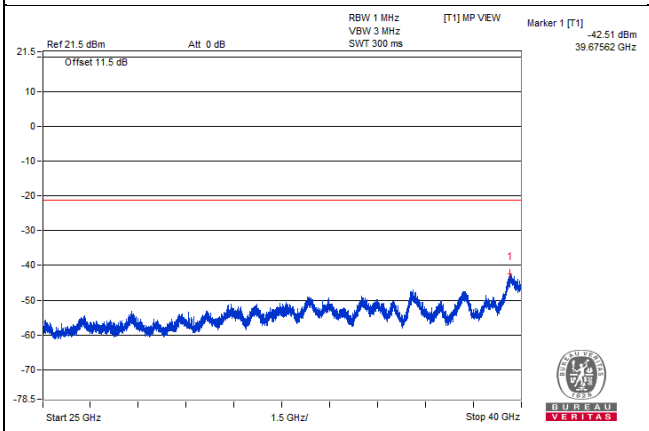
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5720.31 PK	110.71	*		7.18	8.27	15.45
2	3117.18 PK	57.08	68.2	-11.12	-46.45	8.27	-38.18
3	9726.56 PK	56.86	68.2	-11.34	-46.67	8.27	-38.4
4	21585.93 PK	58.92	68.2	-9.28	-44.61	8.27	-36.34
5	39675.62 PK	61.02	74	-12.98	-42.51	8.27	-34.24
6	5720.31 AV	102.55	*		-0.98	8.27	7.29
7	4575 AV	40.33	54	-13.67	-63.2	8.27	-54.93
8	5775 AV	43.8	#		-59.73	8.27	-51.46
9	21630.5 AV	46.71	#		-56.82	8.27	-48.55
10	39705.62 AV	49.21	54	-4.79	-54.32	8.27	-46.05

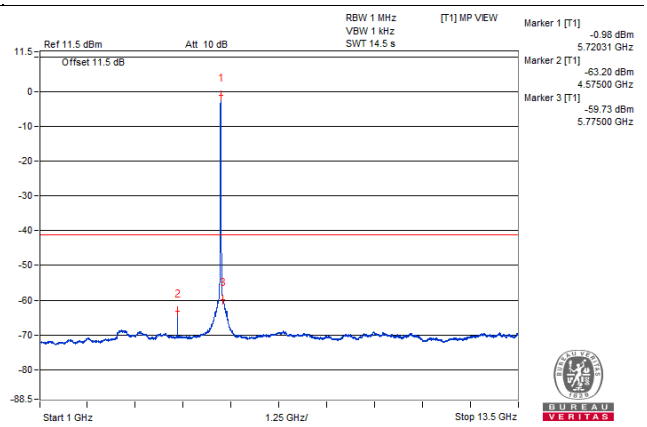
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

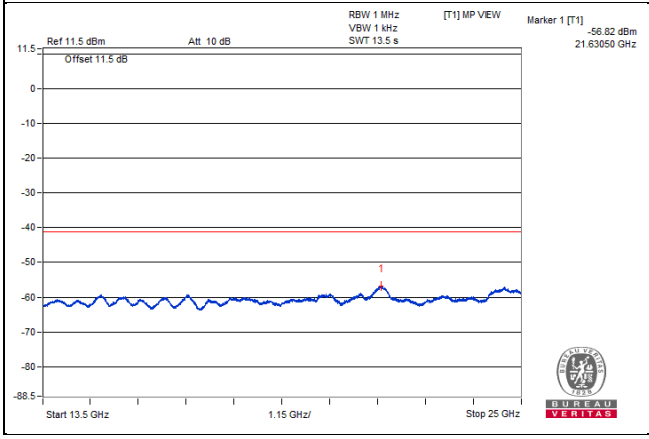
Chain 1

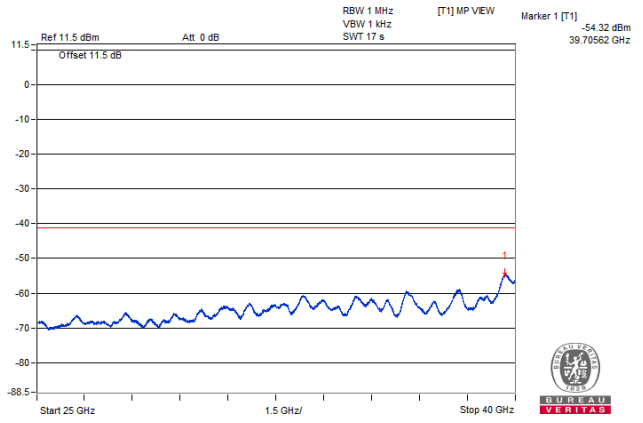

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.18 dBm
5.72031 GHz
Marker 2 [T1]
-46.45 dBm
3.11718 GHz
Marker 3 [T1]
-46.67 dBm
9.72656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.61 dBm
21.58593 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.51 dBm
39.67562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-0.98 dBm
5.72031 GHz
Marker 2 [T1]
-63.20 dBm
4.57500 GHz
Marker 3 [T1]
-59.73 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.82 dBm
21.63050 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.32 dBm
39.70562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

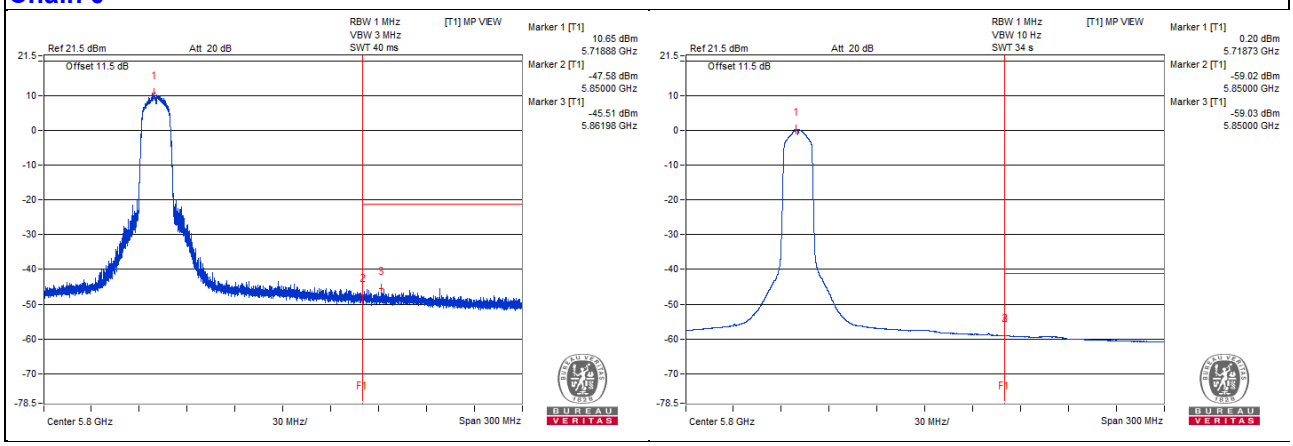
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5718.88 PK	112.75	*		10.65	6.84	17.49
2	5850 PK	54.52	68.2	-13.68	-47.58	6.84	-40.74
3	5861.98 PK	56.59	68.2	-11.61	-45.51	6.84	-38.67
4	5718.73 AV	102.3	*		0.2	6.84	7.04
5	5850 AV	43.08	#		-59.02	6.84	-52.18
6	5850 AV	43.07	#		-59.03	6.84	-52.19

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

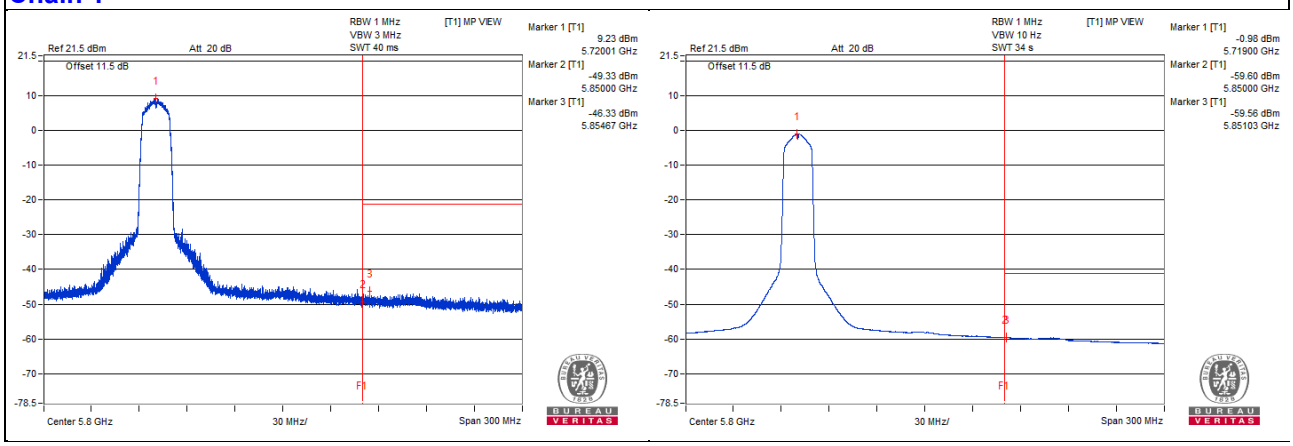


Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5720.01 PK	110.29	*		9.23	5.8	15.03
2	5850 PK	51.73	68.2	-16.47	-49.33	5.8	-43.53
3	5854.67 PK	54.73	68.2	-13.47	-46.33	5.8	-40.53
4	5719 AV	100.08	*		-0.98	5.8	4.82
5	5850 AV	41.46	#		-59.6	5.8	-53.8
6	5851.03 AV	41.5	#		-59.56	5.8	-53.76

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1



802.11ac (VHT20) – Channel 149

Conducted spurious emission table

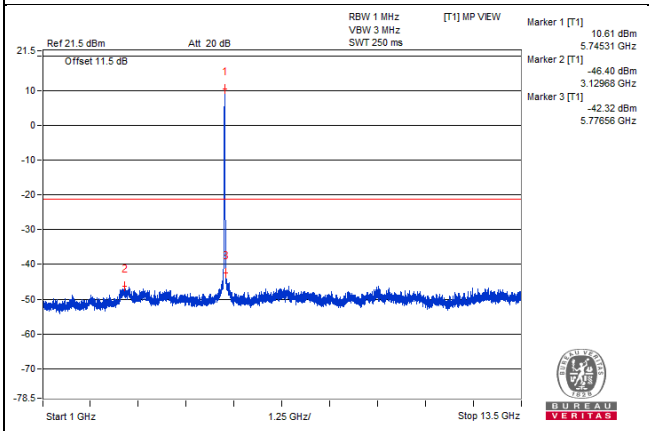
Chain 0

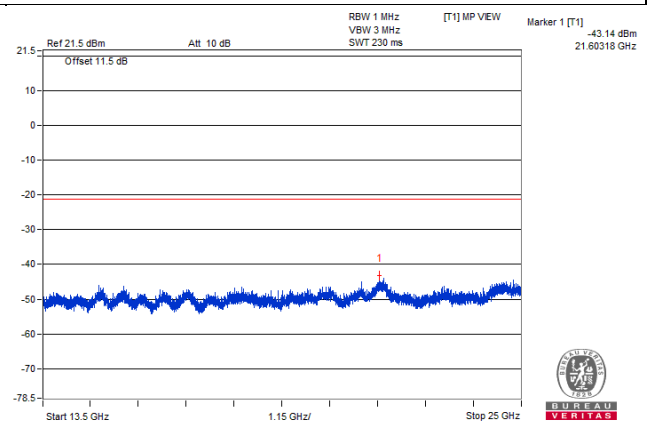
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5745.31 PK	112.71	*		10.61	6.84	17.45
2	3129.68 PK	55.7	68.2	-12.5	-46.4	6.84	-39.56
3	5776.56 PK	59.78	68.2	-8.42	-42.32	6.84	-35.48
4	21603.18 PK	58.96	68.2	-9.24	-43.14	6.84	-36.3
5	39728.12 PK	60.24	74	-13.76	-41.86	6.84	-35.02
6	5745.31 AV	102.79	*		0.69	6.84	7.53
7	3092.18 AV	34.05	#		-68.05	6.84	-61.21
8	5775 AV	48.06	#		-54.04	6.84	-47.2
9	21611.81 AV	46.16	#		-55.94	6.84	-49.1
10	39709.37 AV	48.6	54	-5.4	-53.5	6.84	-46.66

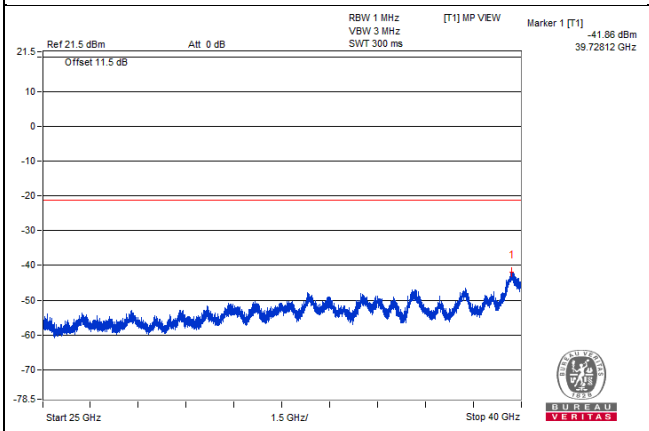
Note :

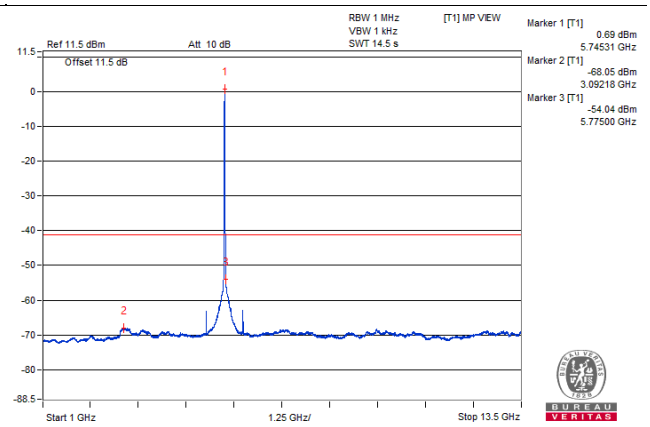
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

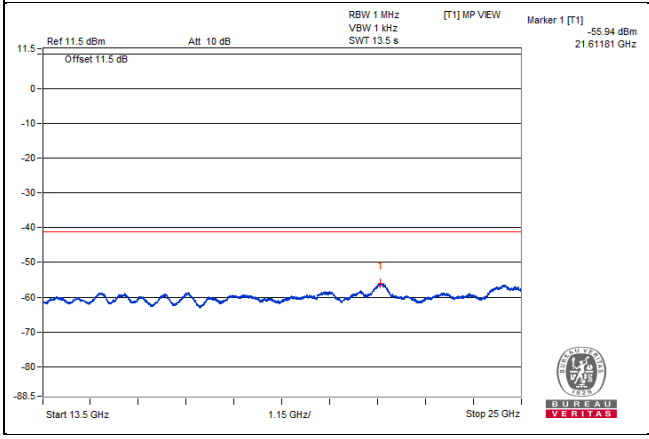
Chain 0

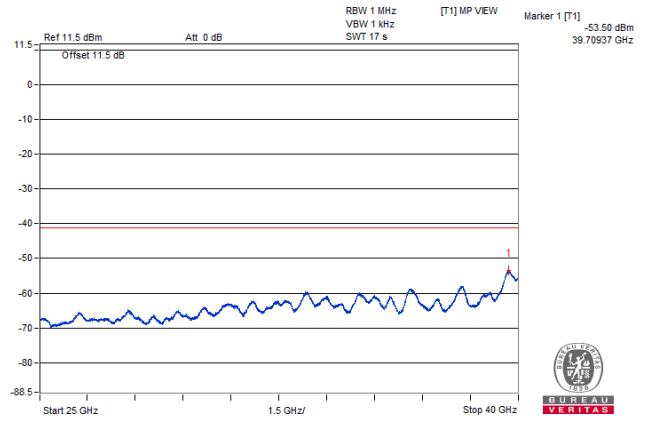

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
10.61 dBm
5.74531 GHz
Marker 2 [T1]
-46.40 dBm
3.12968 GHz
Marker 3 [T1]
-42.32 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.14 dBm
21.60318 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.86 dBm
39.72812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.69 dBm
5.74531 GHz
Marker 2 [T1]
-68.05 dBm
3.09218 GHz
Marker 3 [T1]
-54.04 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.94 dBm
21.61181 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.50 dBm
39.70937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

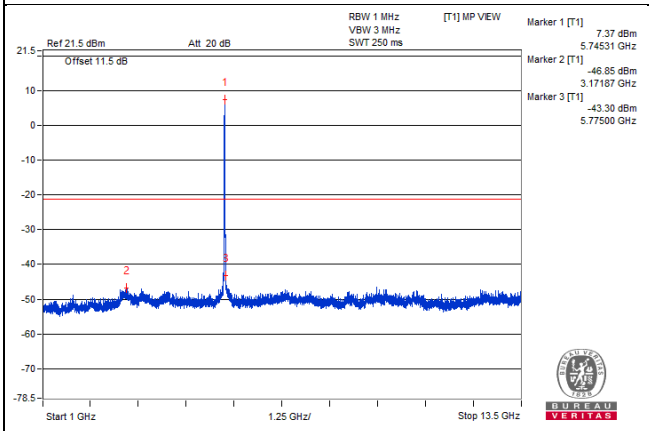
Chain 1

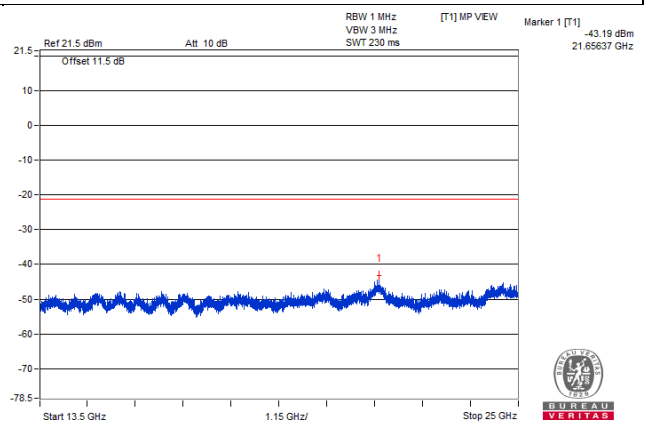
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5745.31 PK	110.9	*		7.37	8.27	15.64
2	3171.87 PK	56.68	68.2	-11.52	-46.85	8.27	-38.58
3	5775 PK	60.23	68.2	-7.97	-43.3	8.27	-35.03
4	21656.37 PK	60.34	68.2	-7.86	-43.19	8.27	-34.92
5	39715 PK	62.27	74	-11.73	-41.26	8.27	-32.99
6	5746.87 AV	101.84	*		-1.69	8.27	6.58
7	4595.31 AV	39.5	54	-14.5	-64.03	8.27	-55.76
8	5775 AV	47.49	#		-56.04	8.27	-47.77
9	21650.62 AV	46.73	#		-56.8	8.27	-48.53
10	39718.75 AV	49.23	54	-4.77	-54.3	8.27	-46.03

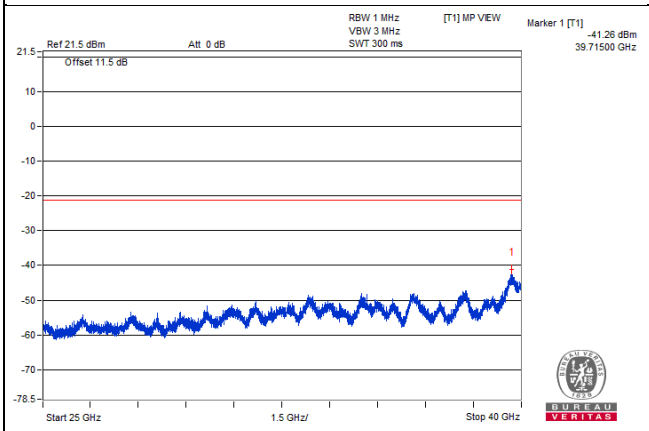
Note :

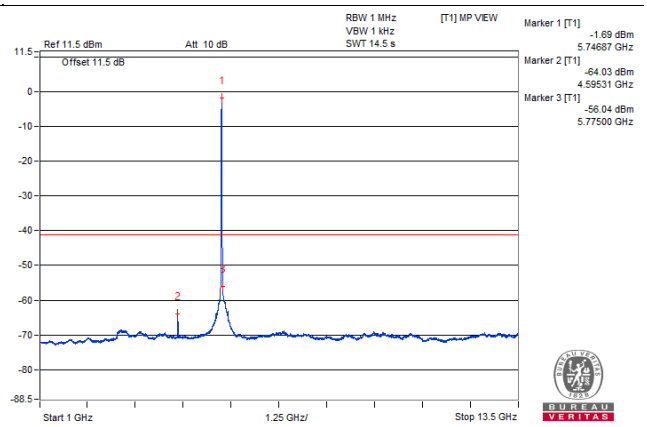
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

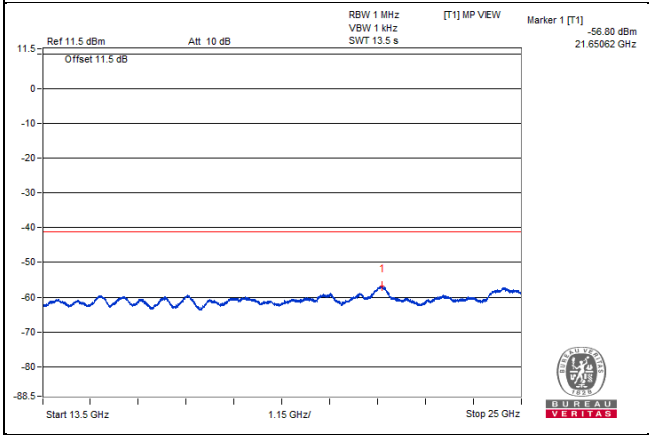
Chain 1

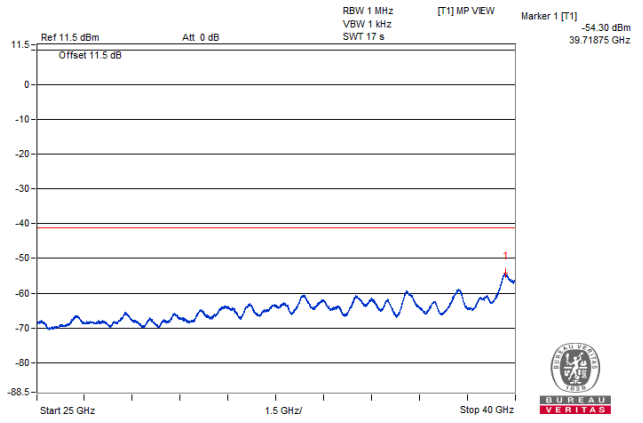

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.37 dBm
5.74531 GHz
Marker 2 [T1]
-46.85 dBm
3.17187 GHz
Marker 3 [T1]
-43.30 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.19 dBm
21.65637 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.26 dBm
39.71500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

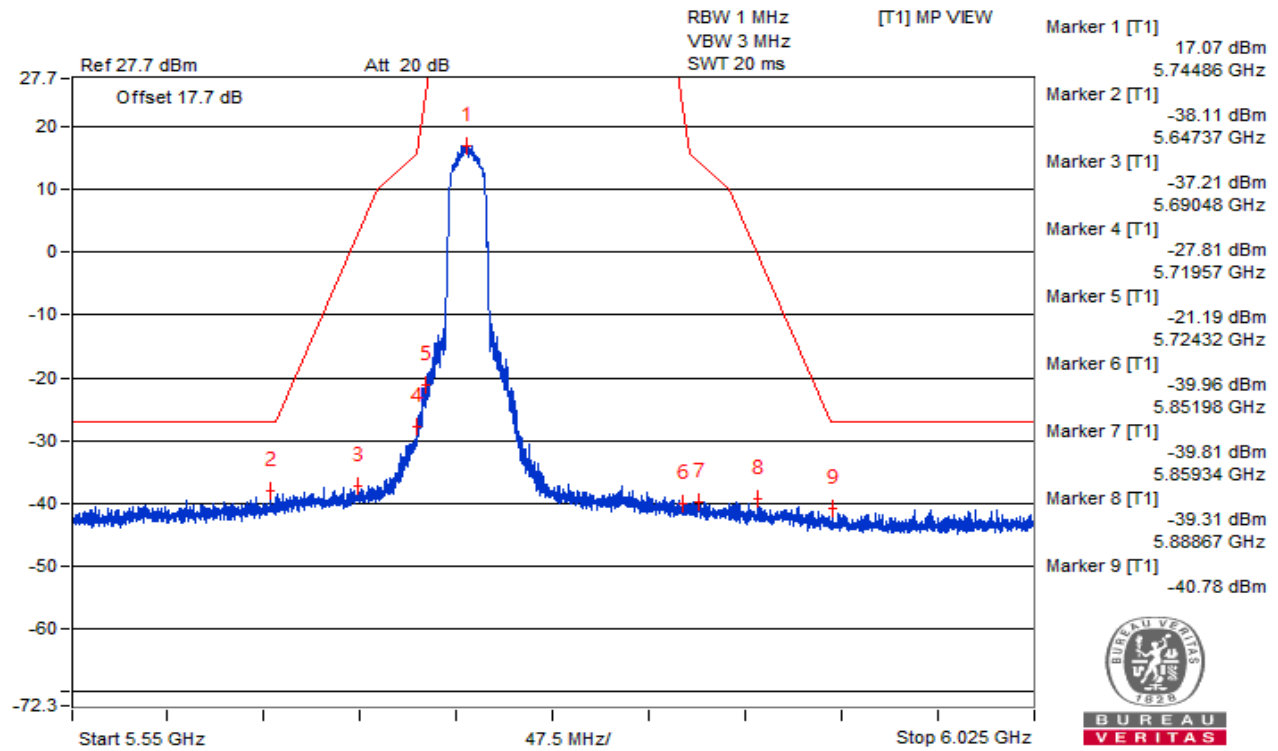

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.69 dBm
5.74687 GHz
Marker 2 [T1]
-64.03 dBm
4.59531 GHz
Marker 3 [T1]
-56.04 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.80 dBm
21.65062 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

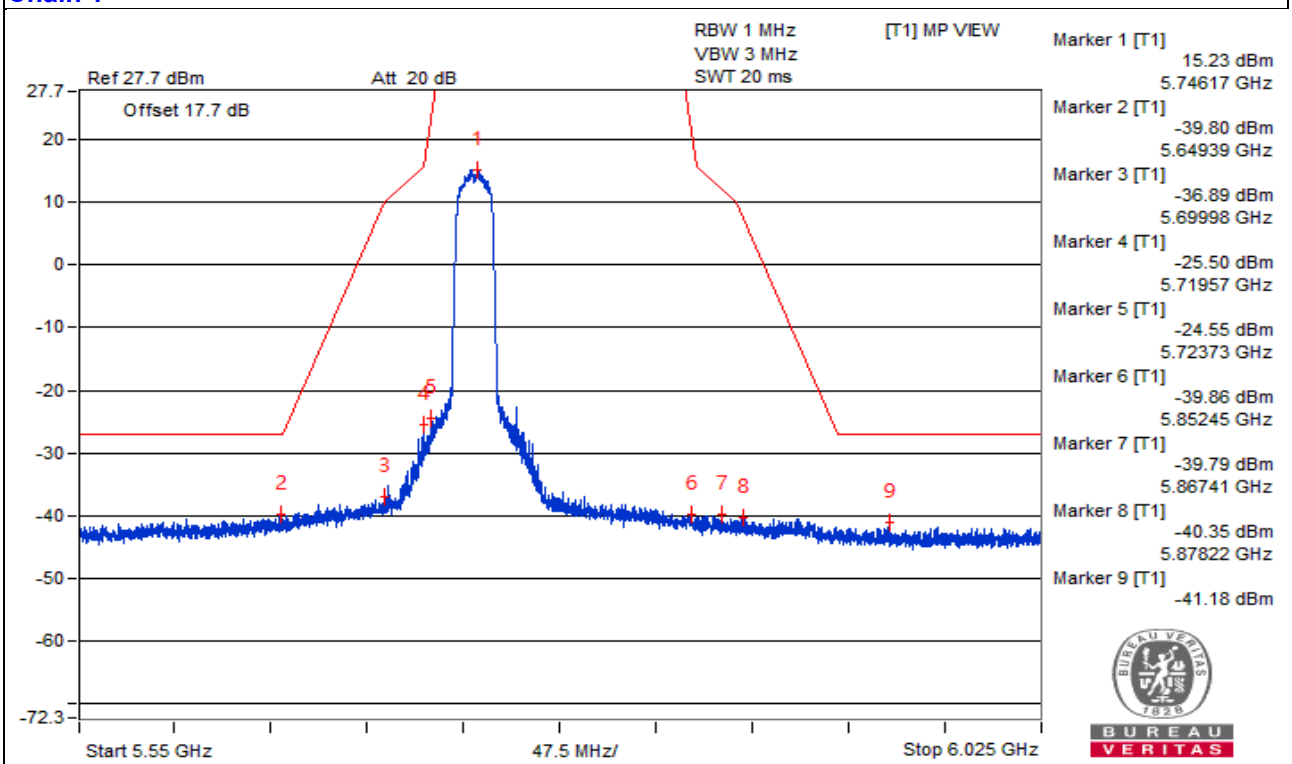

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.30 dBm
39.71875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

802.11ac (VHT20) – Channel 157

Conducted spurious emission table

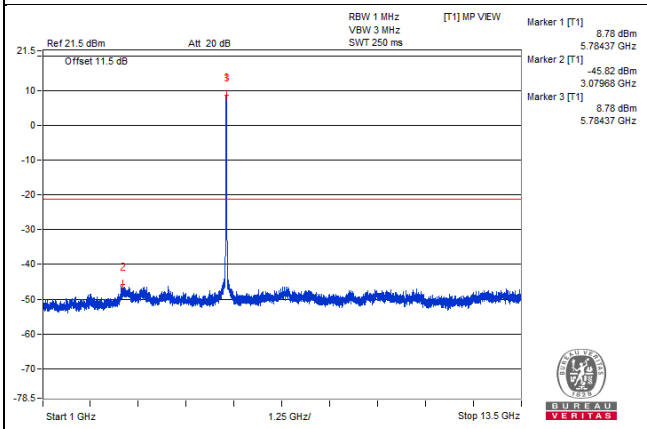
Chain 0

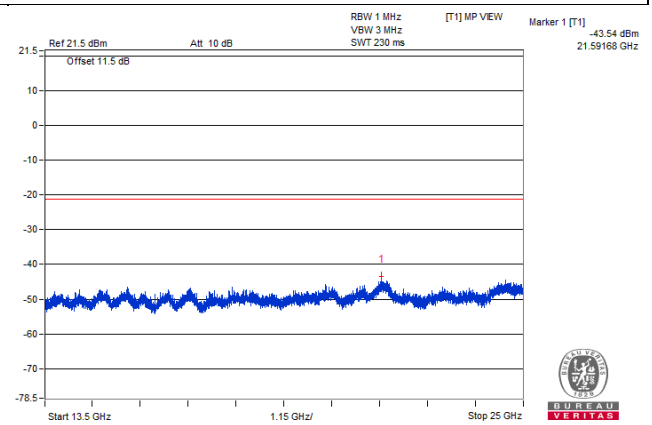
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5784.37 PK	110.88	*		8.78	6.84	15.62
2	3079.68 PK	56.28	68.2	-11.92	-45.82	6.84	-38.98
3	5784.37 PK	110.88	*		8.78	6.84	15.62
4	21591.68 PK	58.56	68.2	-9.64	-43.54	6.84	-36.7
5	39701.87 PK	60.97	74	-13.03	-41.13	6.84	-34.29
6	5785.93 AV	102.57	*		0.47	6.84	7.31
7	4628.12 AV	34.26	54	-19.74	-67.84	6.84	-61
8	5785.93 AV	102.57	*		0.47	6.84	7.31
9	21647.75 AV	46.2	#		-55.9	6.84	-49.06
10	39720.62 AV	48.63	54	-5.37	-53.47	6.84	-46.63

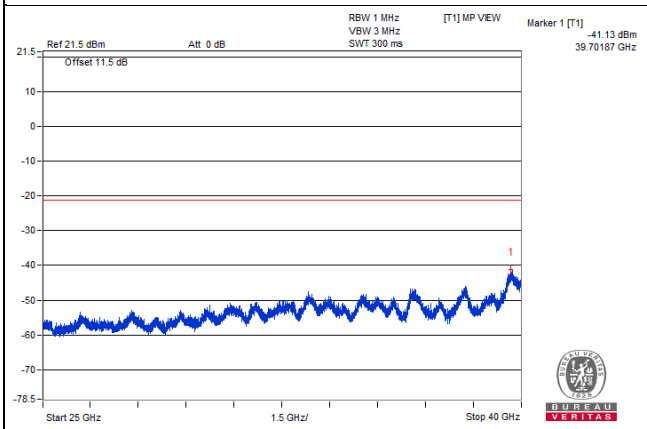
Note :

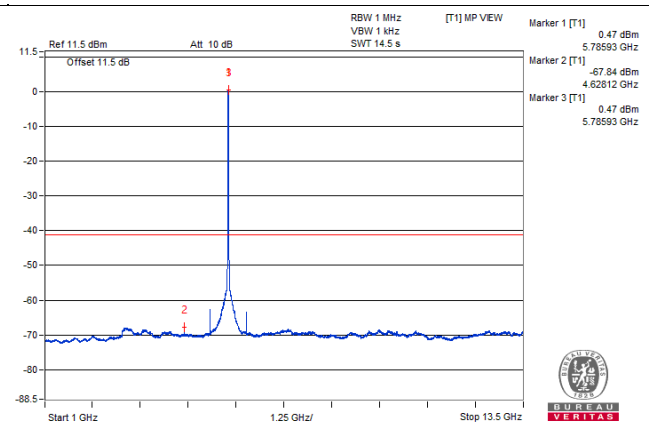
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

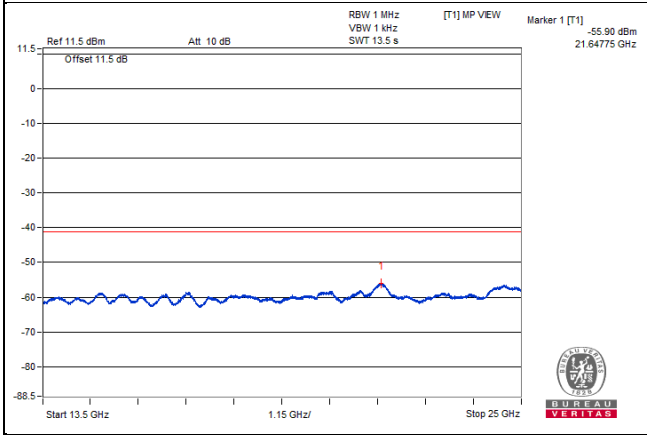
Chain 0

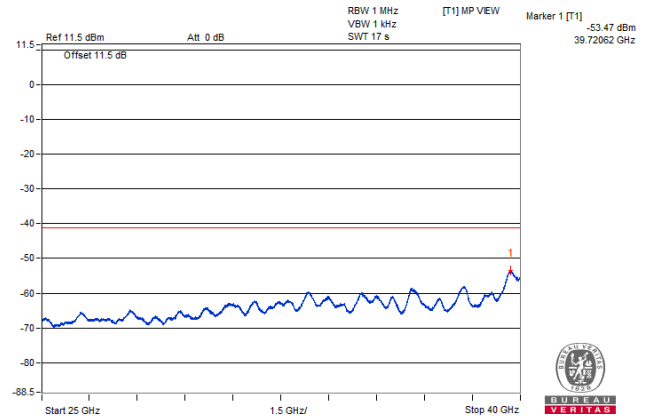

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
8.78 dBm
5.78437 GHz
Marker 2 [T1]
-45.82 dBm
3.07968 GHz
Marker 3 [T1]
8.78 dBm
5.78437 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.54 dBm
21.59168 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.13 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.47 dBm
5.78593 GHz
Marker 2 [T1]
-67.84 dBm
4.62812 GHz
Marker 3 [T1]
0.47 dBm
5.78593 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.90 dBm
21.64775 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

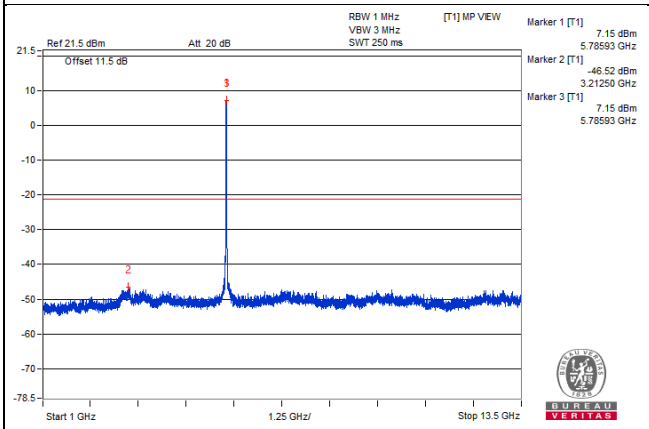

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.47 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

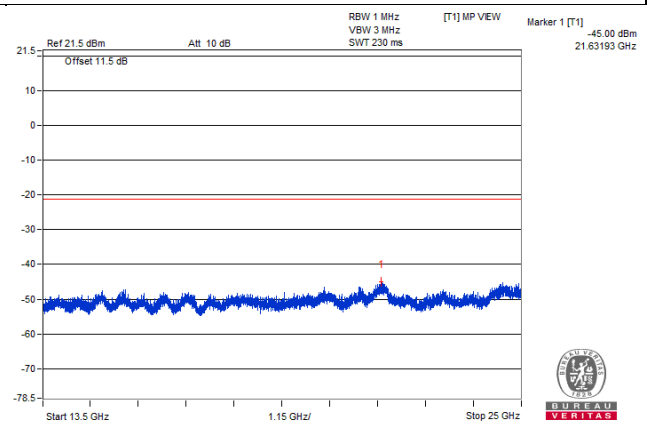
Chain 1

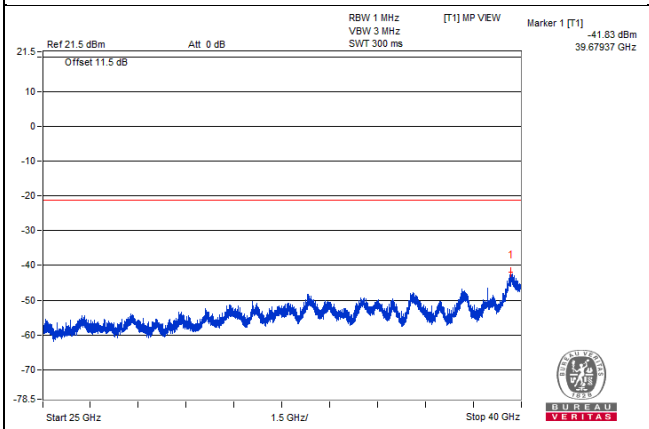
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5785.93 PK	110.68	*		7.15	8.27	15.42
2	3212.5 PK	57.01	68.2	-11.19	-46.52	8.27	-38.25
3	5785.93 PK	110.68	*		7.15	8.27	15.42
4	21631.93 PK	58.53	68.2	-9.67	-45	8.27	-36.73
5	39679.37 PK	61.7	74	-12.3	-41.83	8.27	-33.56
6	5785.93 AV	102.28	*		-1.25	8.27	7.02
7	4628.12 AV	41.04	54	-12.96	-62.49	8.27	-54.22
8	5785.93 AV	102.28	*		-1.25	8.27	7.02
9	21633.37 AV	46.98	#		-56.55	8.27	-48.28
10	39737.5 AV	49.08	54	-4.92	-54.45	8.27	-46.18

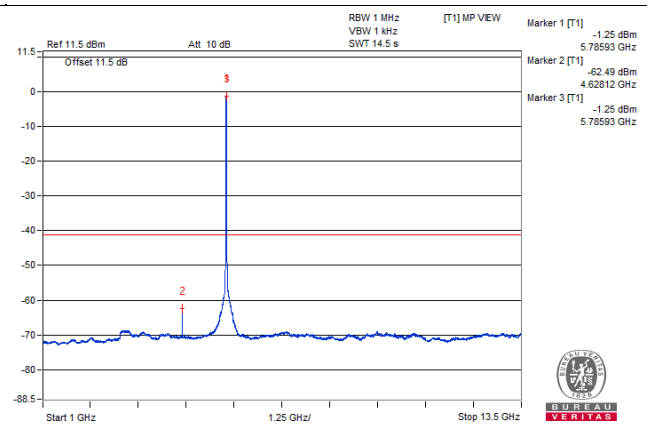
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

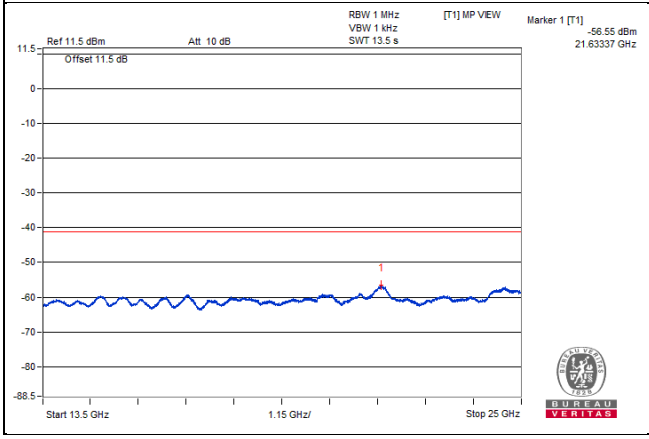
Chain 1

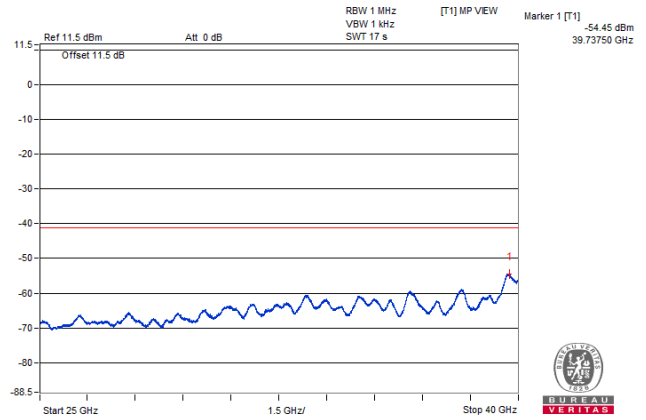

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.15 dBm
5.78593 GHz
Marker 2 [T1]
-46.52 dBm
3.21250 GHz
Marker 3 [T1]
7.15 dBm
5.78593 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.00 dBm
21.63193 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.83 dBm
39.67937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

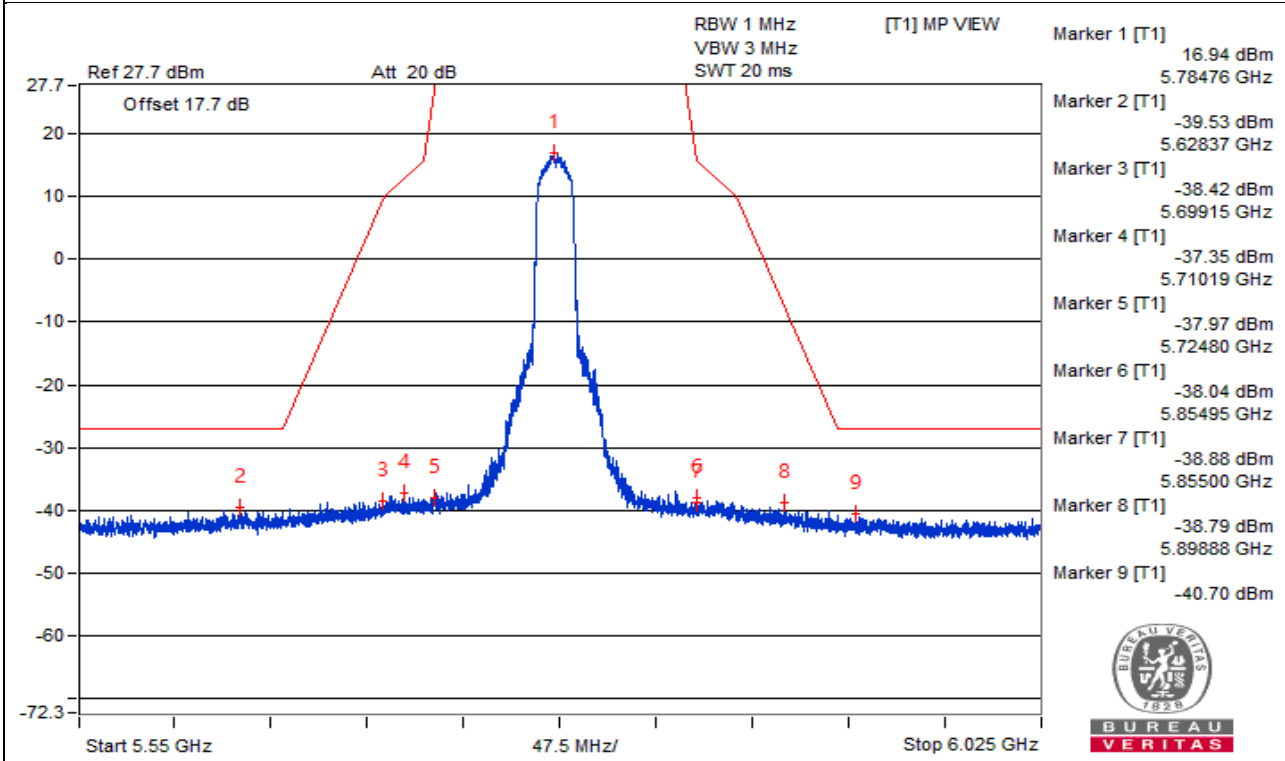

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.25 dBm
5.78593 GHz
Marker 2 [T1]
-62.49 dBm
4.62812 GHz
Marker 3 [T1]
-1.25 dBm
5.78593 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.55 dBm
21.63337 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

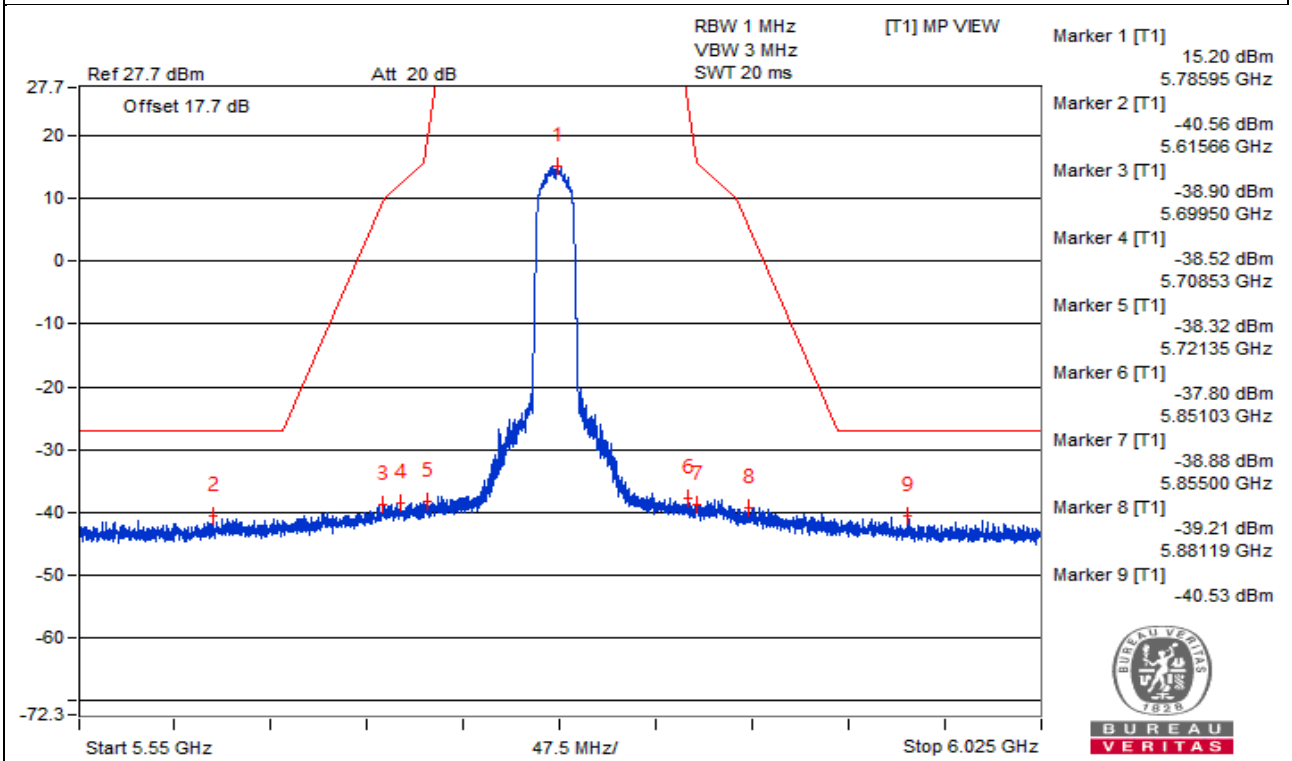

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.45 dBm
39.73750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

802.11ac (VHT20) – Channel 165

Conducted spurious emission table

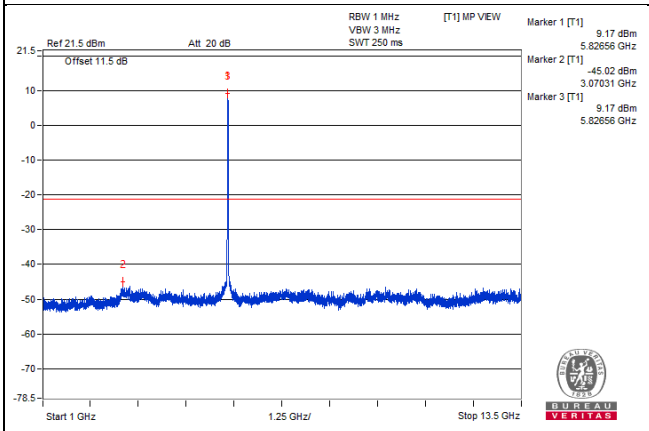
Chain 0

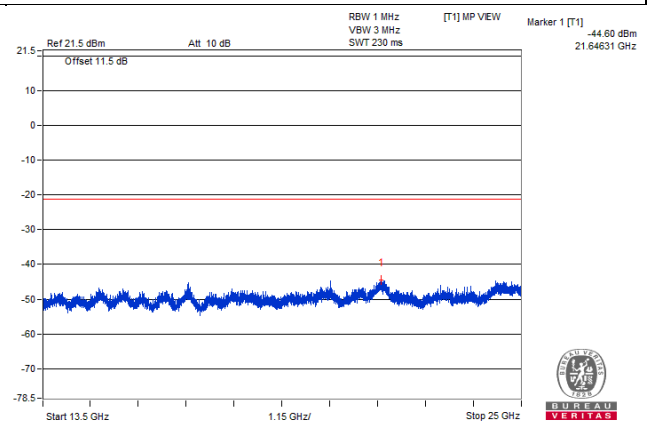
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5826.56 PK	111.27	*		9.17	6.84	16.01
2	3070.31 PK	57.08	68.2	-11.12	-45.02	6.84	-38.18
3	5826.56 PK	111.27	*		9.17	6.84	16.01
4	21646.31 PK	57.5	68.2	-10.7	-44.6	6.84	-37.76
5	39716.87 PK	60.32	74	-13.68	-41.78	6.84	-34.94
6	5823.43 AV	102.24	*		0.14	6.84	6.98
7	4659.37 AV	34.92	54	-19.08	-67.18	6.84	-60.34
8	5823.43 AV	102.24	*		0.14	6.84	6.98
9	21636.25 AV	46.23	#		-55.87	6.84	-49.03
10	39730 AV	48.67	54	-5.33	-53.43	6.84	-46.59

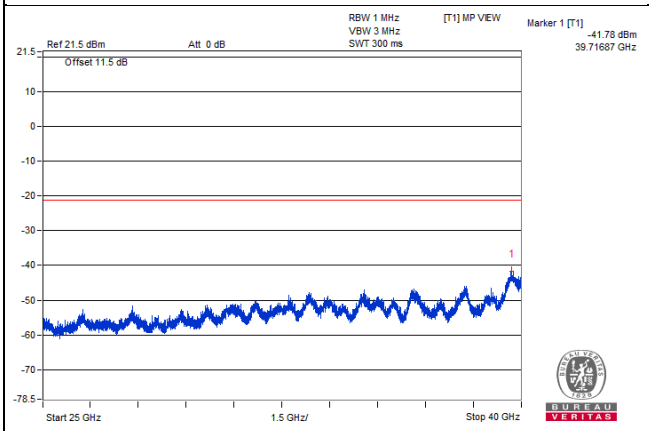
Note :

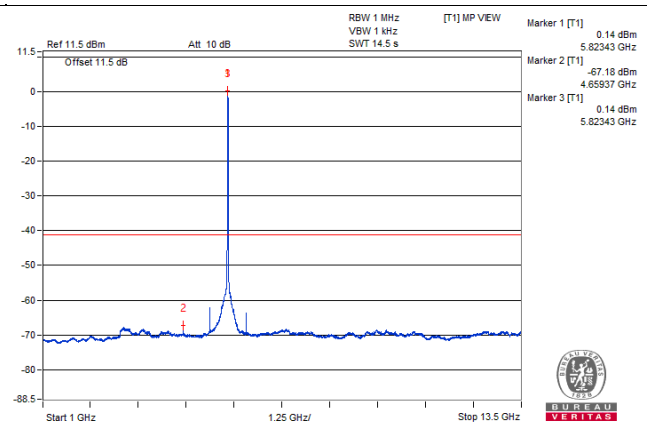
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

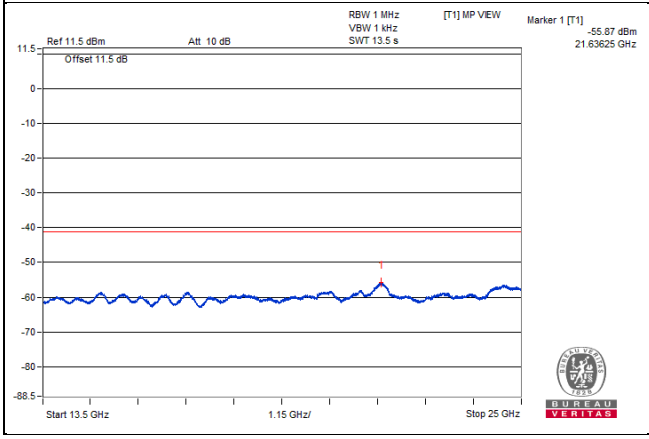
Chain 0

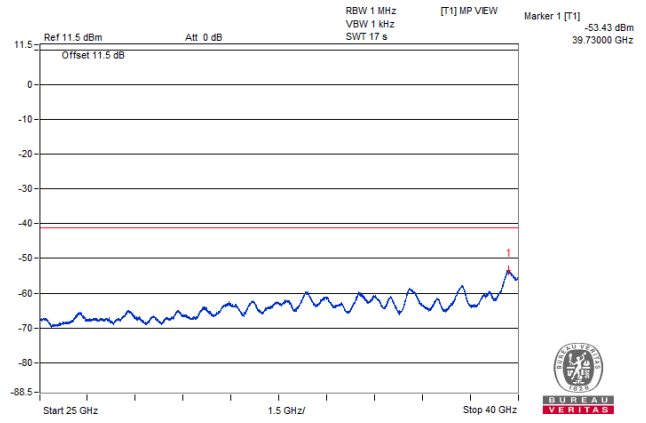

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.17 dBm
5.82656 GHz
Marker 2 [T1]
-45.02 dBm
3.07031 GHz
Marker 3 [T1]
9.17 dBm
5.82656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.60 dBm
21.64631 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.78 dBm
39.71687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
0.14 dBm
5.82343 GHz
Marker 2 [T1]
-67.18 dBm
4.65937 GHz
Marker 3 [T1]
0.14 dBm
5.82343 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.87 dBm
21.63625 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

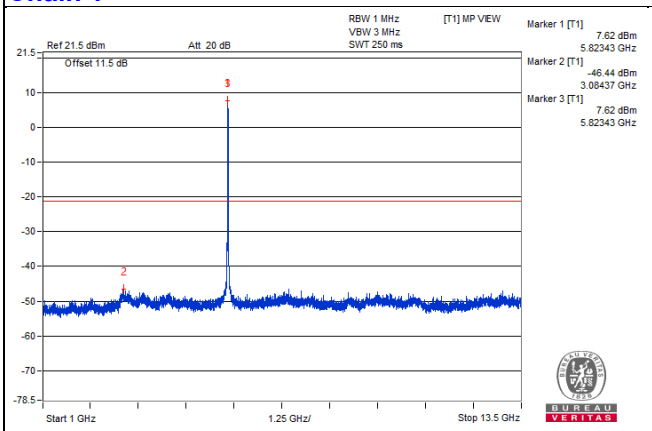

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.43 dBm
39.73000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

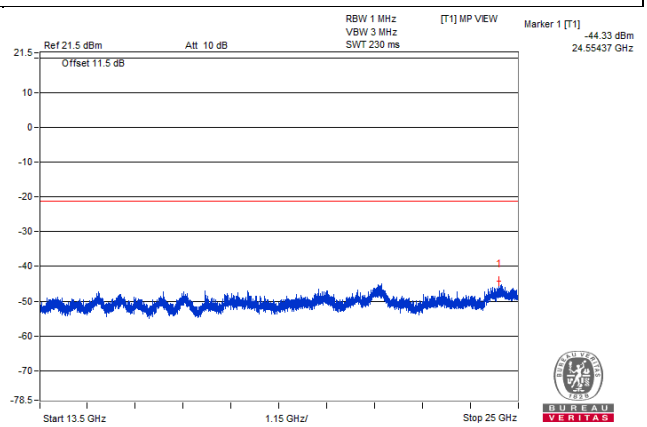
Chain 1

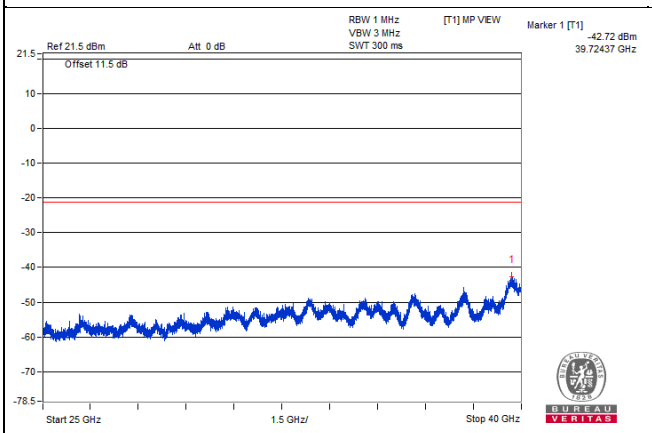
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5823.43 PK	111.15	*		7.62	8.27	15.89
2	3084.37 PK	57.09	68.2	-11.11	-46.44	8.27	-38.17
3	5823.43 PK	111.15	*		7.62	8.27	15.89
4	24554.37 PK	59.2	68.2	-9	-44.33	8.27	-36.06
5	39724.37 PK	60.81	74	-13.19	-42.72	8.27	-34.45
6	5825 AV	102.38	*		-1.15	8.27	7.12
7	4659.37 AV	41.73	54	-12.27	-61.8	8.27	-53.53
8	5825 AV	102.38	*		-1.15	8.27	7.12
9	21646.31 AV	46.77	#		-56.76	8.27	-48.49
10	39690.62 AV	49.6	54	-4.4	-53.93	8.27	-45.66

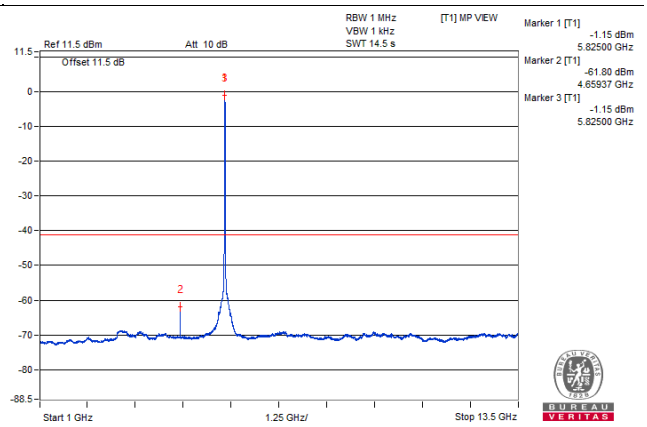
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

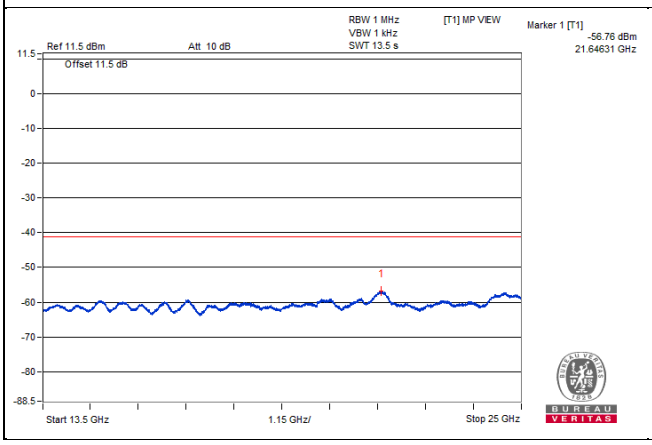
Chain 1

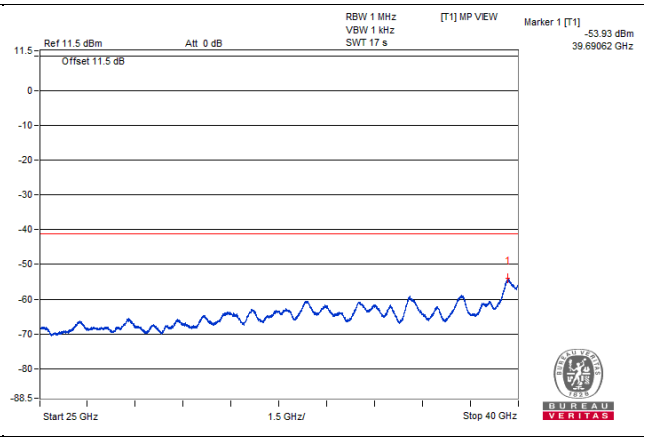

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
7.62 dBm
5.82343 GHz
Marker 2 [T1]
-46.44 dBm
3.08437 GHz
Marker 3 [T1]
7.62 dBm
5.82343 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.33 dBm
24.55437 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.72 dBm
39.72437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

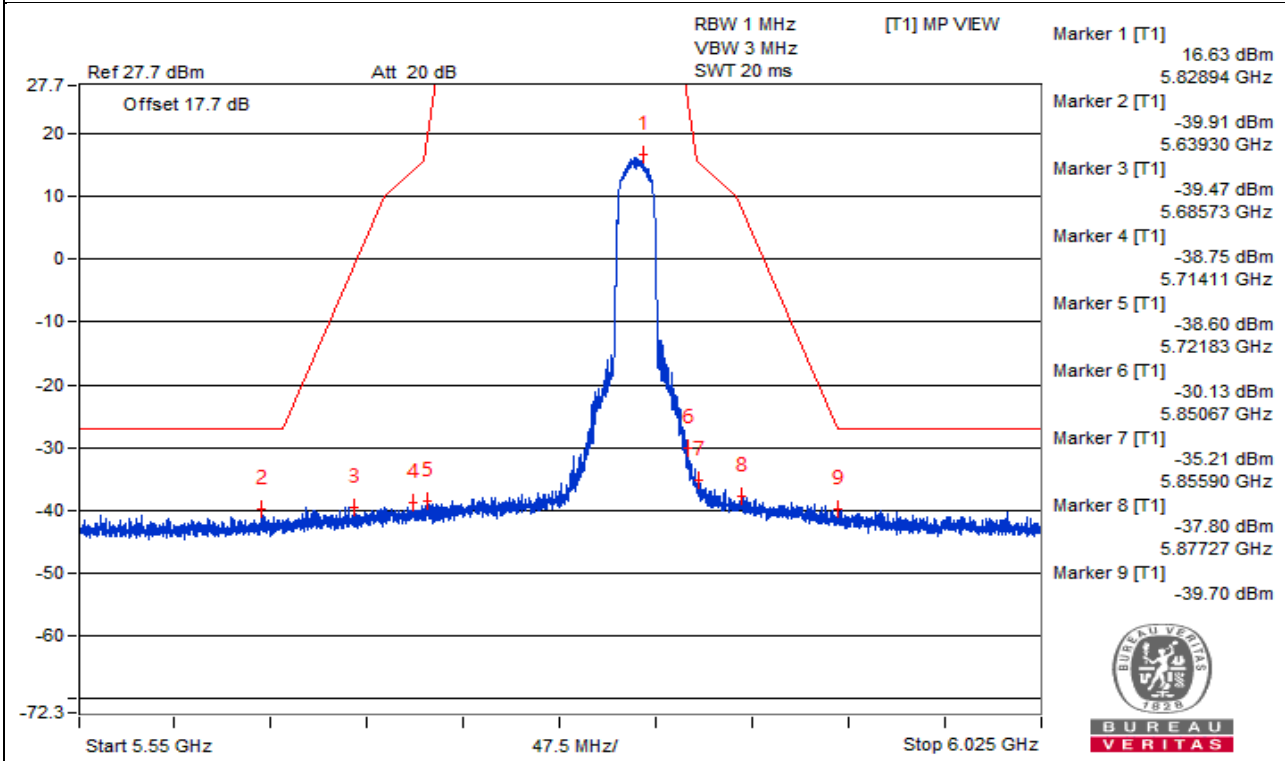

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-1.15 dBm
5.82500 GHz
Marker 2 [T1]
-61.80 dBm
4.65937 GHz
Marker 3 [T1]
-1.15 dBm
5.82500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.76 dBm
21.64631 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

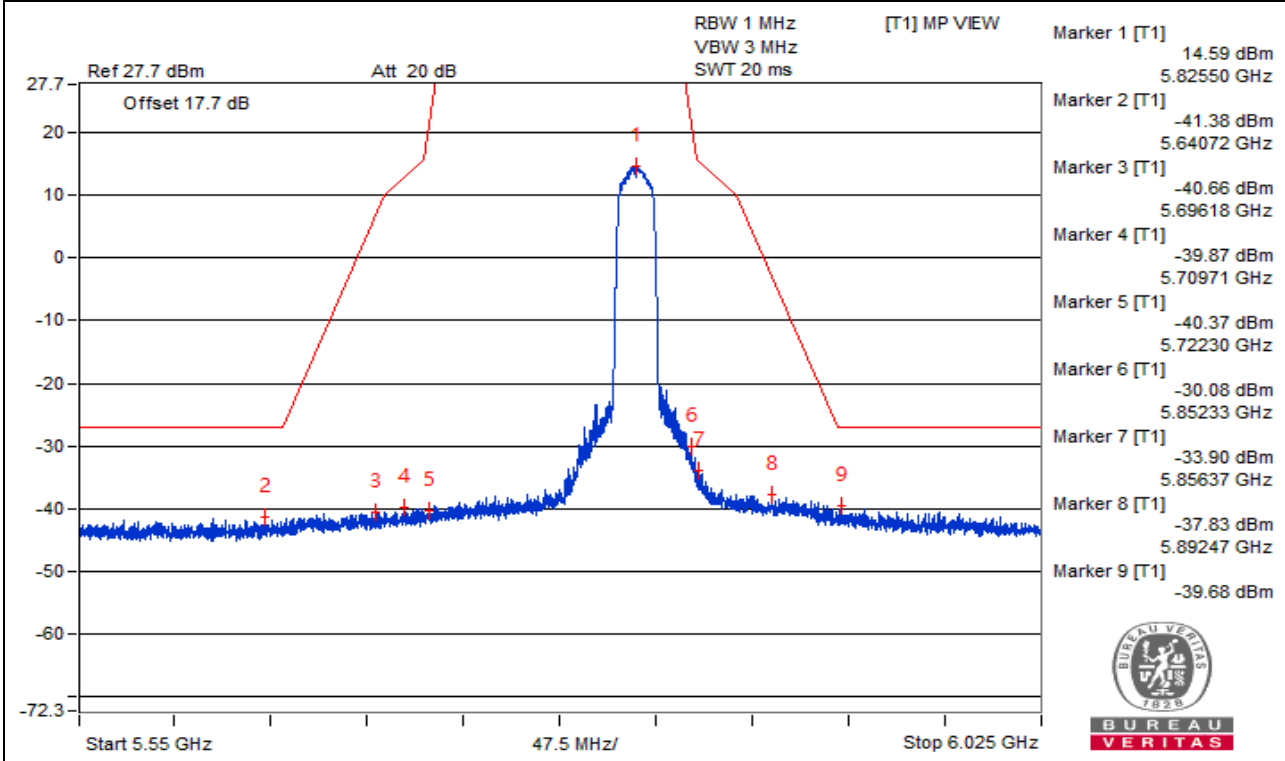

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.93 dBm
39.69062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

802.11ac (VHT40) - Channel 38

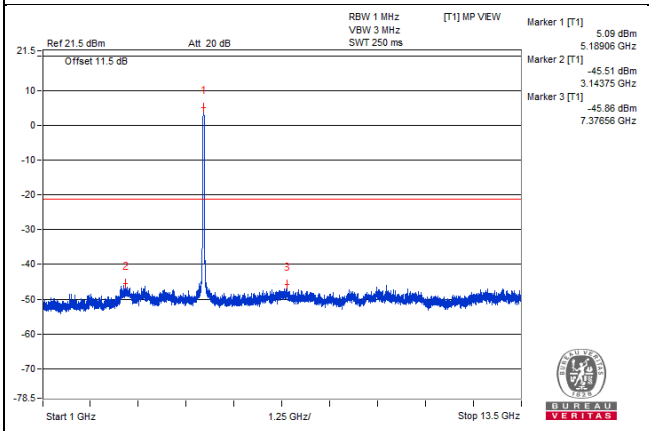
Conducted spurious emission table

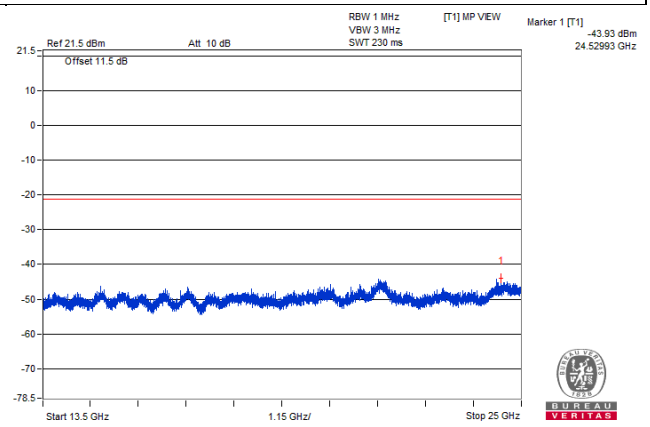
Chain 0

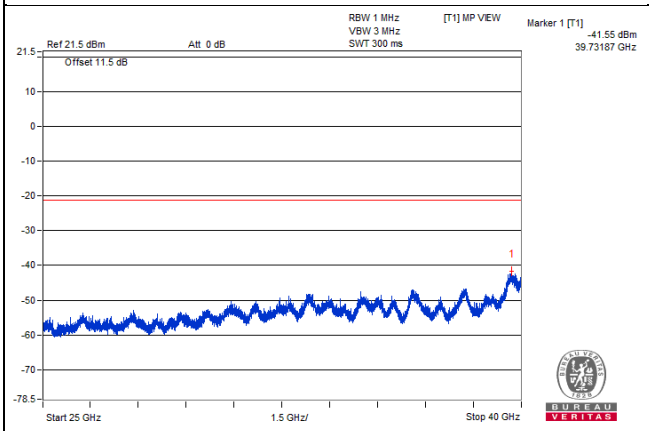
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5189.06 PK	107.19	*		5.09	6.84	11.93
2	3143.75 PK	56.59	68.2	-11.61	-45.51	6.84	-38.67
3	7376.56 PK	56.24	74	-17.76	-45.86	6.84	-39.02
4	24529.93 PK	58.17	68.2	-10.03	-43.93	6.84	-37.09
5	39731.87 PK	60.55	74	-13.45	-41.55	6.84	-34.71
6	5187.5 AV	98.78	*		-3.32	6.84	3.52
7	5098.43 AV	42	54	-12	-60.1	6.84	-53.26
8	7360.93 AV	33.94	54	-20.06	-68.16	6.84	-61.32
9	21613.25 AV	46.07	#		-56.03	6.84	-49.19
10	39713.12 AV	48.64	54	-5.36	-53.46	6.84	-46.62

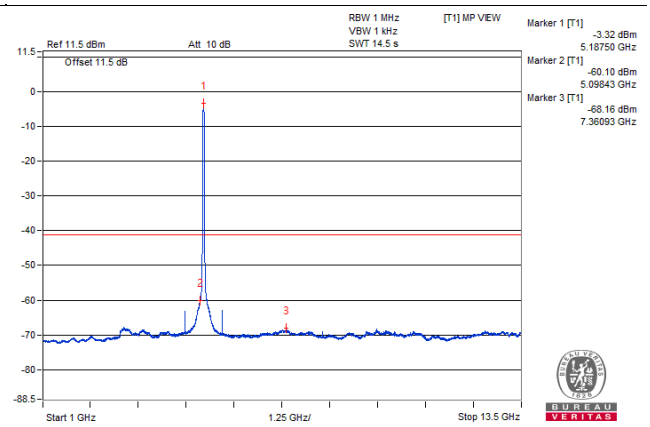
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

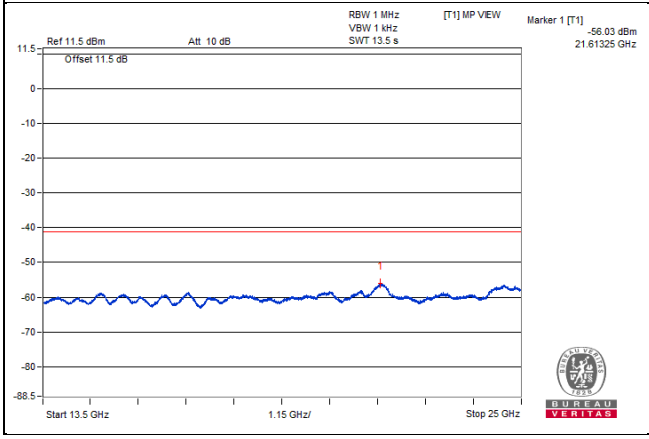
Chain 0

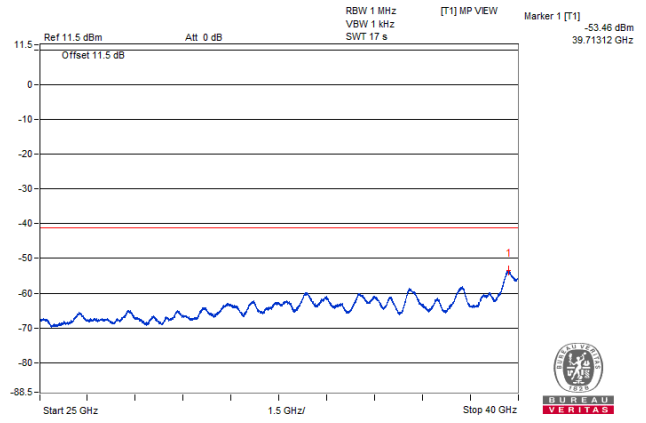

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.09 dBm
5.18906 GHz
Marker 2 [T1]
-45.51 dBm
3.14375 GHz
Marker 3 [T1]
-45.86 dBm
7.37656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.93 dBm
24.52993 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.55 dBm
39.73187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.32 dBm
5.18750 GHz
Marker 2 [T1]
-60.10 dBm
5.09843 GHz
Marker 3 [T1]
-68.16 dBm
7.36093 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.03 dBm
21.61325 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

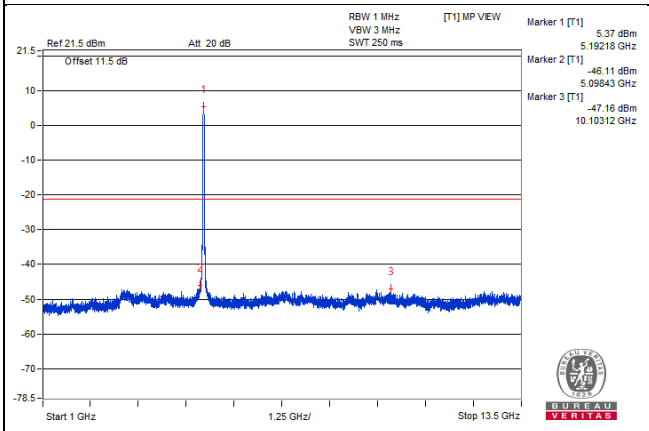

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.46 dBm
39.71312 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

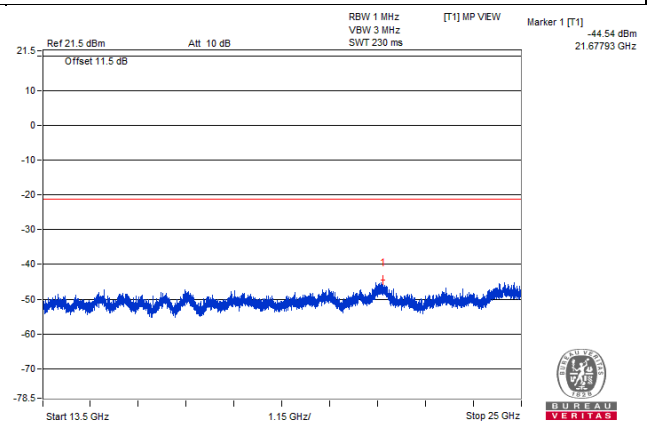
Chain 1

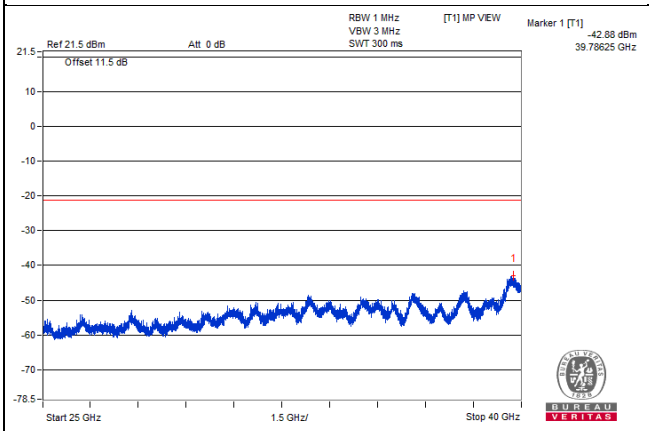
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5192.18 PK	108.9	*		5.37	8.27	13.64
2	5098.43 PK	57.42	74	-16.58	-46.11	8.27	-37.84
3	10103.12 PK	56.37	68.2	-11.83	-47.16	8.27	-38.89
4	21677.93 PK	58.99	68.2	-9.21	-44.54	8.27	-36.27
5	39786.25 PK	60.65	74	-13.35	-42.88	8.27	-34.61
6	5187.5 AV	100.28	*		-3.25	8.27	5.02
7	5095.31 AV	44.17	54	-9.83	-59.36	8.27	-51.09
8	9740.62 AV	34.49	#		-69.04	8.27	-60.77
9	21643.43 AV	46.76	#		-56.77	8.27	-48.5
10	39718.75 AV	49.01	54	-4.99	-54.52	8.27	-46.25

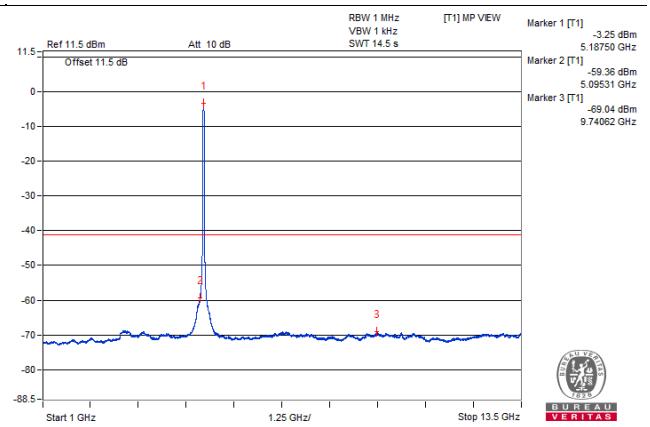
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

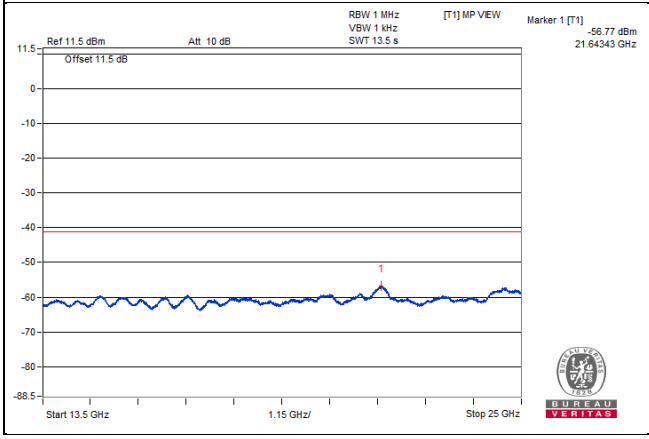
Chain 1

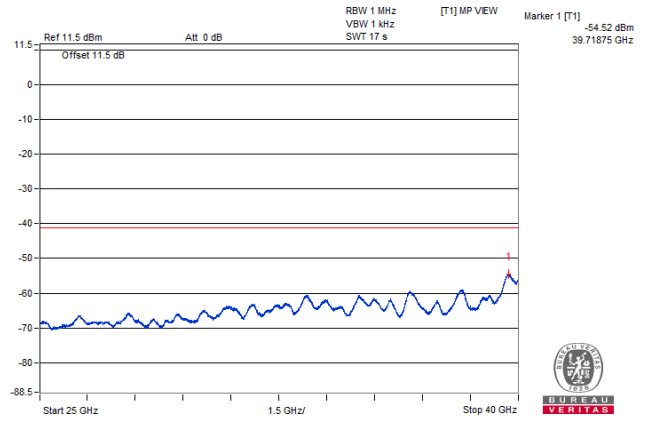

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.37 dBm
5.19218 GHz
Marker 2 [T1]
-46.11 dBm
5.09843 GHz
Marker 3 [T1]
-47.16 dBm
10.10312 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.54 dBm
21.67793 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.88 dBm
39.78625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.25 dBm
5.18750 GHz
Marker 2 [T1]
-59.36 dBm
5.09531 GHz
Marker 3 [T1]
-69.04 dBm
9.74062 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.77 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.52 dBm
39.71875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

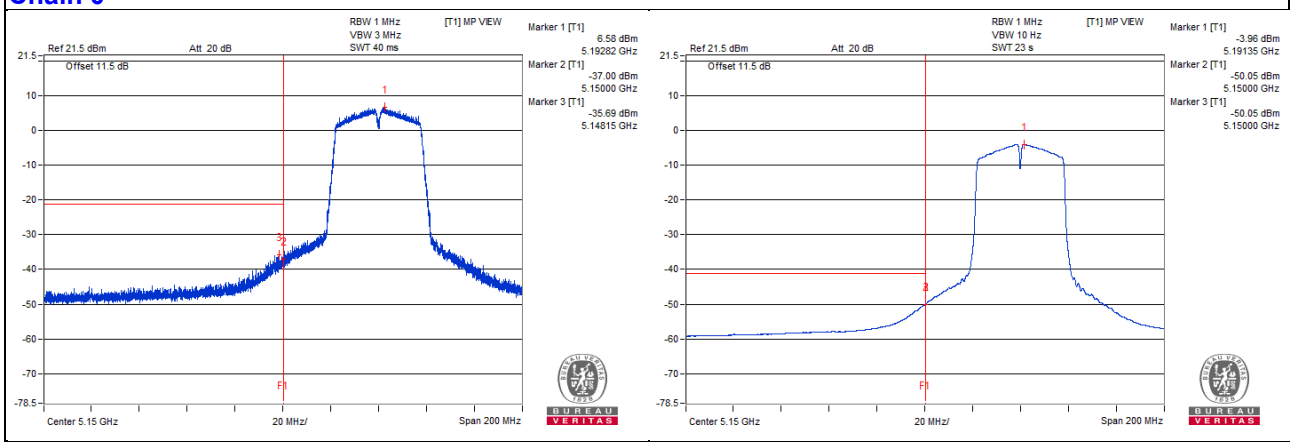
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5192.82 PK	107.91	*		6.58	6.07	12.65
2	5150 PK	64.33	74	-9.67	-37	6.07	-30.93
3	5148.15 PK	65.64	74	-8.36	-35.69	6.07	-29.62
4	5191.35 AV	97.37	*		-3.96	6.07	2.11
5	5150 AV	51.28	54	-2.72	-50.05	6.07	-43.98
6	5150 AV	51.28	54	-2.72	-50.05	6.07	-43.98

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



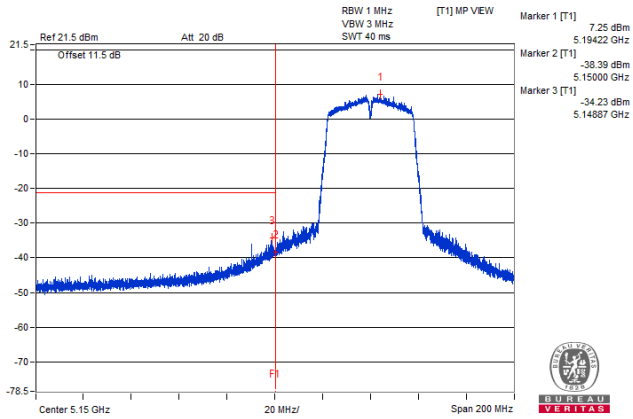
Chain 1

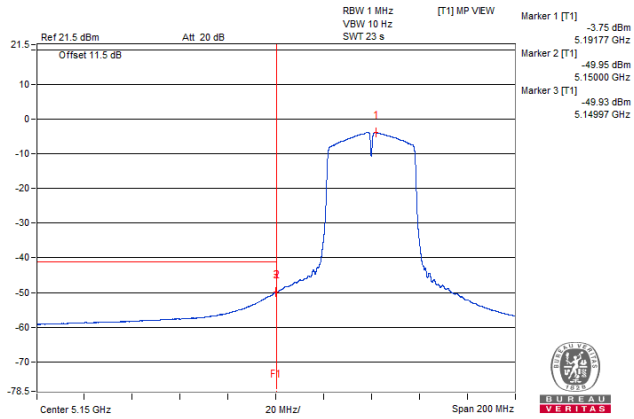
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5194.22 PK	109.3	*		7.25	6.79	14.04
2	5150 PK	63.66	74	-10.34	-38.39	6.79	-31.6
3	5148.87 PK	67.82	74	-6.18	-34.23	6.79	-27.44
4	5191.77 AV	98.3	*		-3.75	6.79	3.04
5	5150 AV	52.1	54	-1.9	-49.95	6.79	-43.16
6	**5149.97 AV**	**52.12**	**54**	**-1.88**	**-49.93**	**6.79**	**-43.14**

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT40) - Channel 46

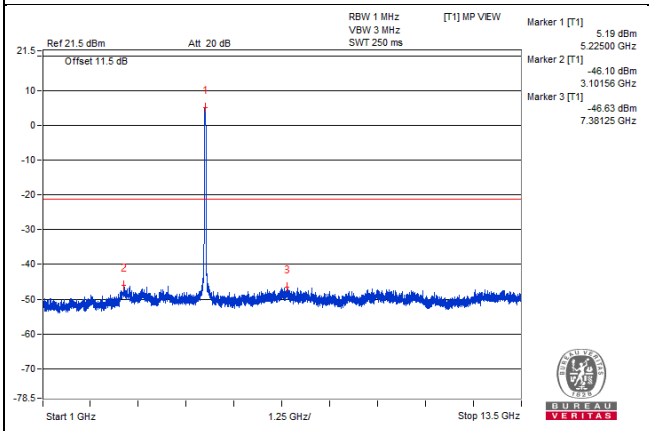
Conducted spurious emission table

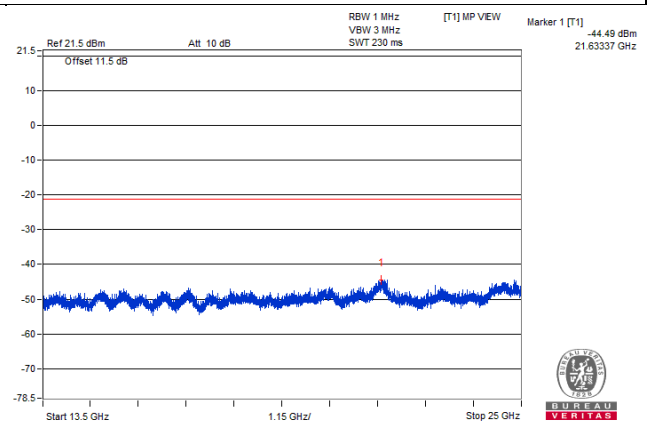
Chain 0

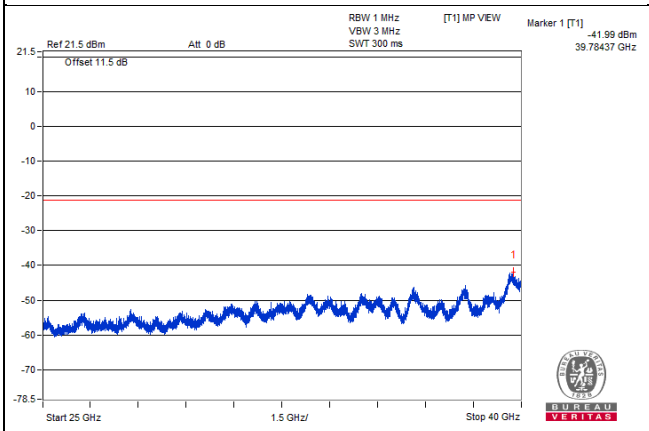
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5225 PK	107.29	*		5.19	6.84	12.03
2	3101.56 PK	56	68.2	-12.2	-46.1	6.84	-39.26
3	7381.25 PK	55.47	74	-18.53	-46.63	6.84	-39.79
4	21633.37 PK	57.61	68.2	-10.59	-44.49	6.84	-37.65
5	39784.37 PK	60.11	74	-13.89	-41.99	6.84	-35.15
6	5231.25 AV	98.58	*		-3.52	6.84	3.32
7	5095.31 AV	39.66	54	-14.34	-62.44	6.84	-55.6
8	7370.31 AV	33.76	54	-20.24	-68.34	6.84	-61.5
9	21633.37 AV	46.15	#		-55.95	6.84	-49.11
10	39685 AV	48.51	54	-5.49	-53.59	6.84	-46.75

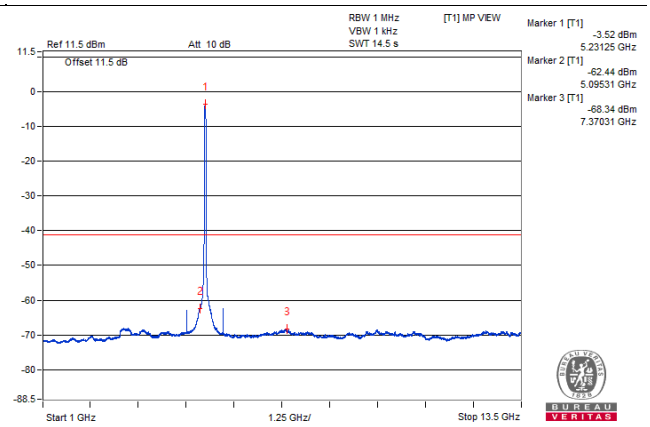
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

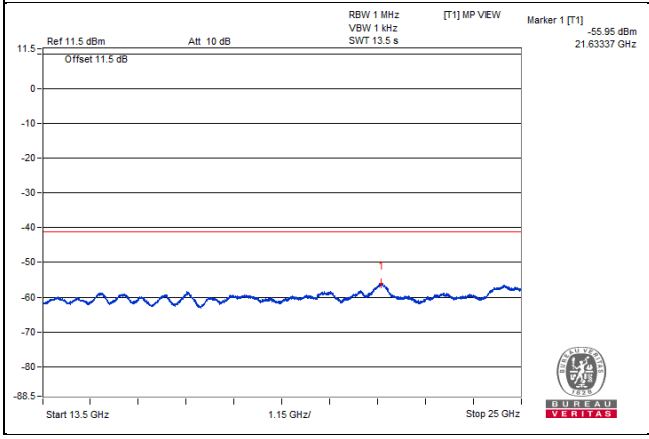
Chain 0

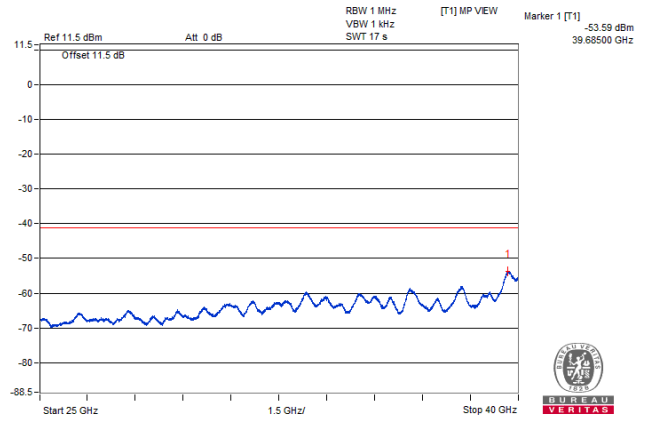

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.19 dBm
5.22500 GHz
Marker 2 [T1]
-46.10 dBm
3.10156 GHz
Marker 3 [T1]
-46.63 dBm
7.38125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.49 dBm
21.63337 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.99 dBm
39.78437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.52 dBm
5.23125 GHz
Marker 2 [T1]
-62.44 dBm
5.09531 GHz
Marker 3 [T1]
-68.34 dBm
7.37031 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.95 dBm
21.63337 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

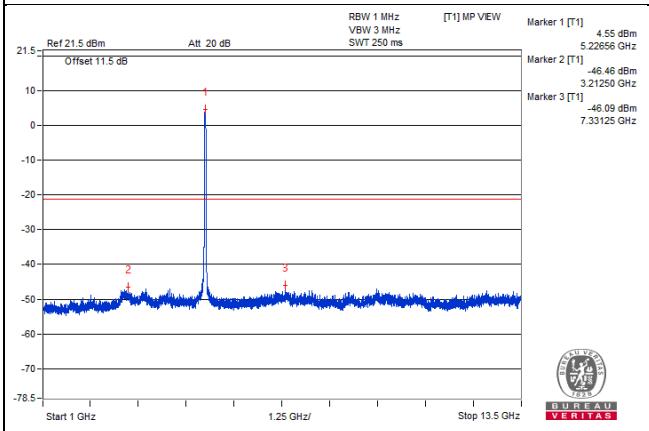

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.59 dBm
39.68500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

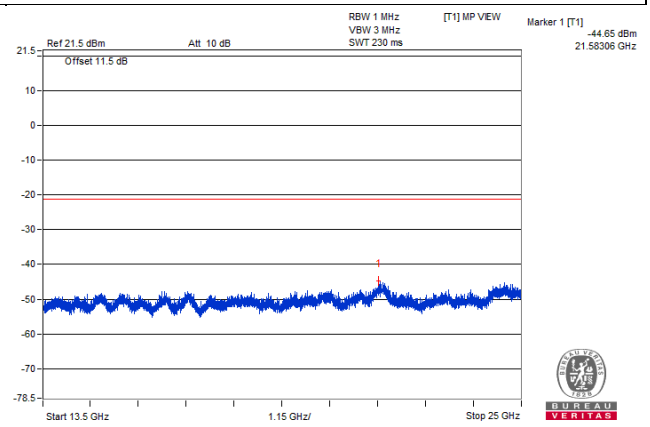
Chain 1

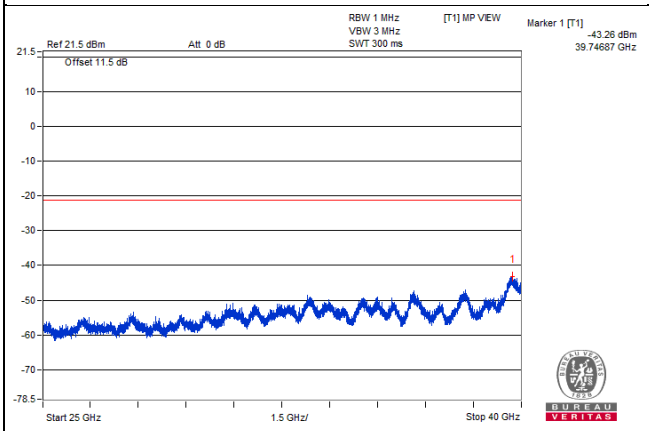
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5226.56 PK	108.08	*		4.55	8.27	12.82
2	3212.5 PK	57.07	68.2	-11.13	-46.46	8.27	-38.19
3	7331.25 PK	57.44	74	-16.56	-46.09	8.27	-37.82
4	21583.06 PK	58.88	68.2	-9.32	-44.65	8.27	-36.38
5	39746.87 PK	60.27	74	-13.73	-43.26	8.27	-34.99
6	5232.81 AV	99.51	*		-4.02	8.27	4.25
7	5100 AV	41.32	54	-12.68	-62.21	8.27	-53.94
8	9726.56 AV	34.51	#		-69.02	8.27	-60.75
9	21613.25 AV	46.67	#		-56.86	8.27	-48.59
10	39692.5 AV	49.31	54	-4.69	-54.22	8.27	-45.95

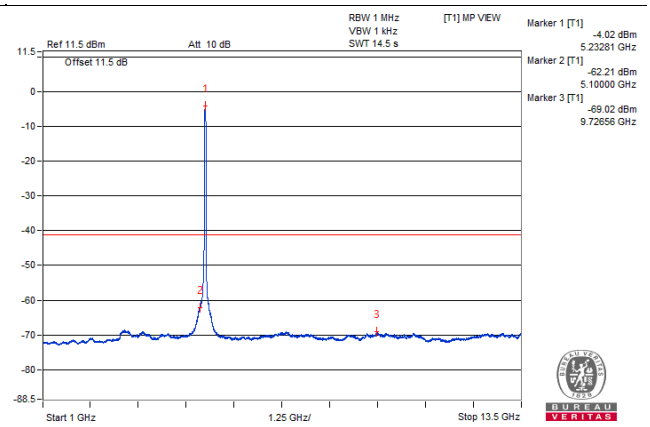
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

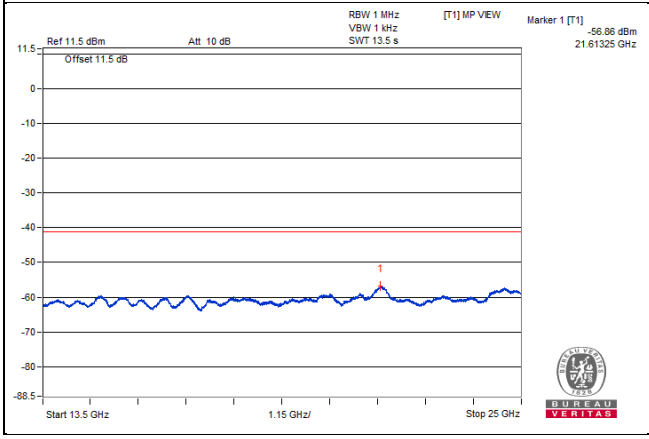
Chain 1

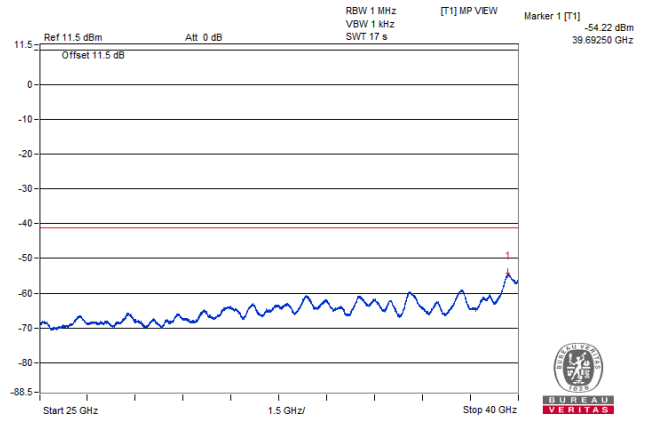

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.55 dBm
5.22656 GHz
Marker 2 [T1]
-46.46 dBm
3.21250 GHz
Marker 3 [T1]
-46.09 dBm
7.33125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.65 dBm
21.58306 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-43.26 dBm
39.74687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.02 dBm
5.23281 GHz
Marker 2 [T1]
-62.21 dBm
5.10000 GHz
Marker 3 [T1]
-69.02 dBm
9.72656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.86 dBm
21.61325 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.22 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

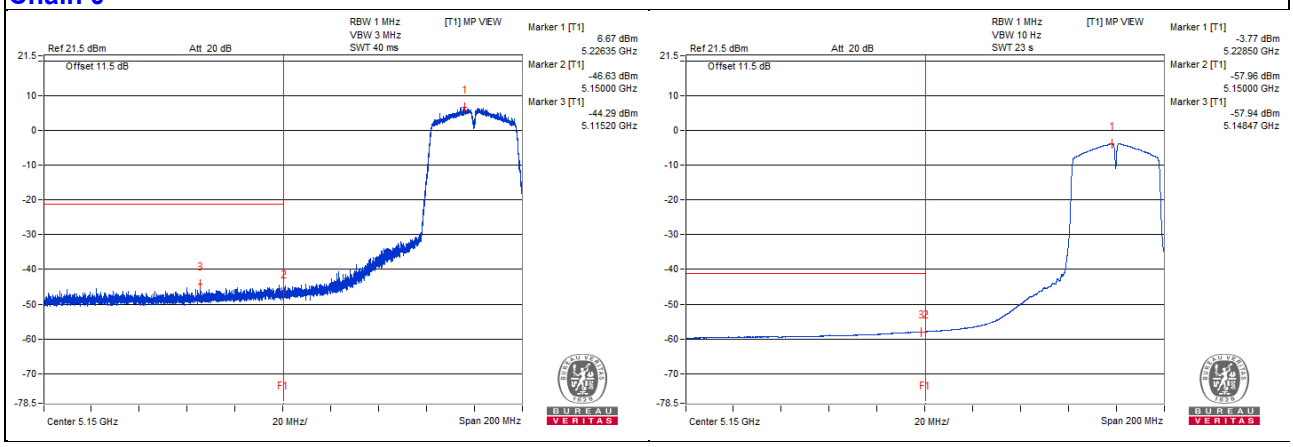
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5226.35 PK	108	*		6.67	6.07	12.74
2	5150 PK	54.7	74	-19.3	-46.63	6.07	-40.56
3	5115.2 PK	57.04	74	-16.96	-44.29	6.07	-38.22
4	5228.5 AV	97.56	*		-3.77	6.07	2.3
5	5150 AV	43.37	54	-10.63	-57.96	6.07	-51.89
6	5148.47 AV	43.39	54	-10.61	-57.94	6.07	-51.87

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



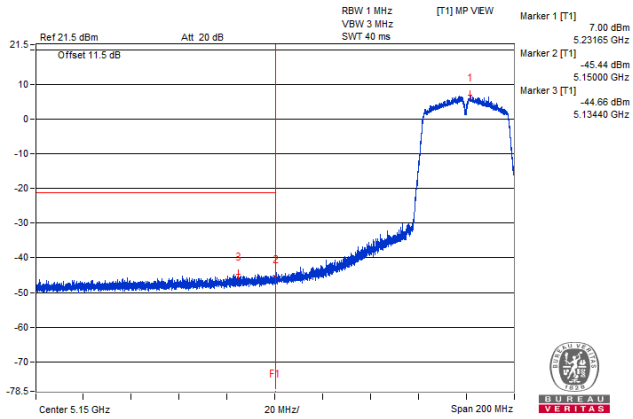
Chain 1

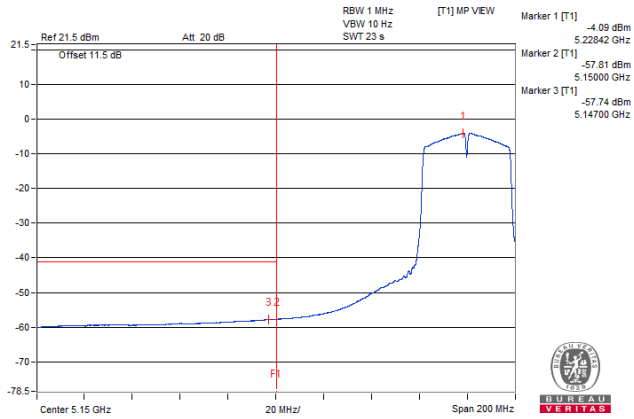
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5231.65 PK	109.05	*		7	6.79	13.79
2	5150 PK	56.61	74	-17.39	-45.44	6.79	-38.65
3	5134.4 PK	57.39	74	-16.61	-44.66	6.79	-37.87
4	5228.42 AV	97.96	*		-4.09	6.79	2.7
5	5150 AV	44.24	54	-9.76	-57.81	6.79	-51.02
6	5147 AV	44.31	54	-9.69	-57.74	6.79	-50.95

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT40) - Channel 54

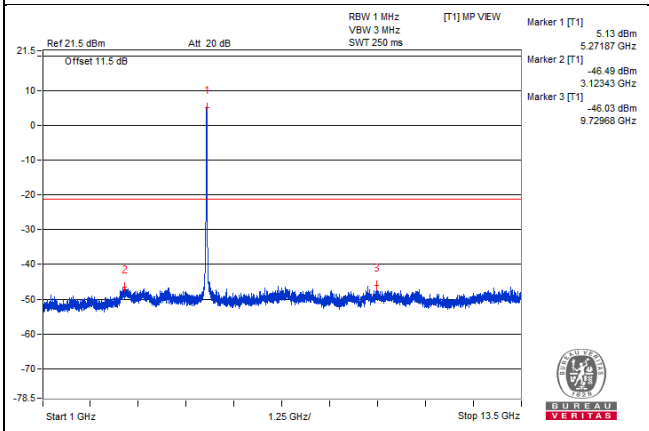
Conducted spurious emission table

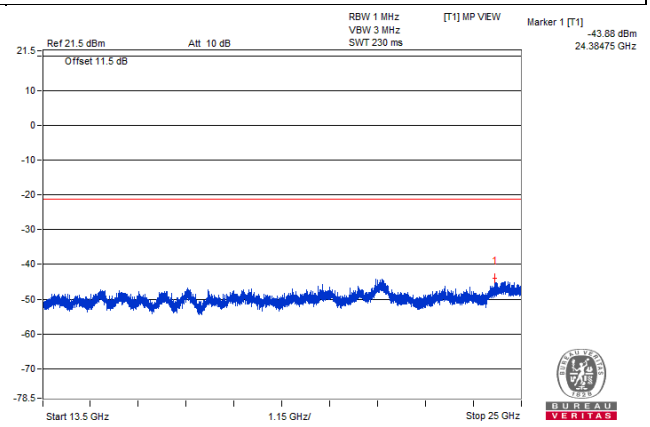
Chain 0

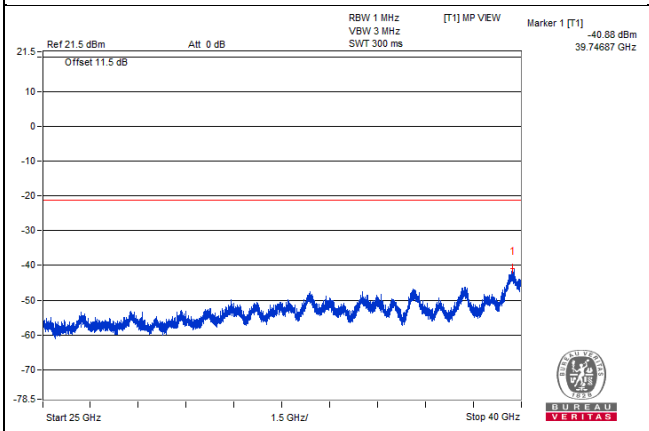
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5271.87 PK	107.23	*		5.13	6.84	11.97
2	3123.43 PK	55.61	68.2	-12.59	-46.49	6.84	-39.65
3	9729.68 PK	56.07	68.2	-12.13	-46.03	6.84	-39.19
4	24384.75 PK	58.22	68.2	-9.98	-43.88	6.84	-37.04
5	39746.87 PK	61.22	74	-12.78	-40.88	6.84	-34.04
6	5271.87 AV	98.42	*		-3.68	6.84	3.16
7	4789.06 AV	37.85	54	-16.15	-64.25	6.84	-57.41
8	7376.56 AV	33.79	54	-20.21	-68.31	6.84	-61.47
9	21669.31 AV	46.02	#		-56.08	6.84	-49.24
10	39711.25 AV	48.46	54	-5.54	-53.64	6.84	-46.8

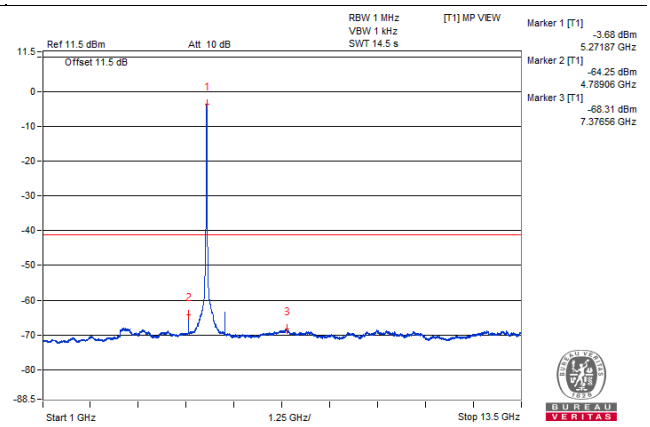
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

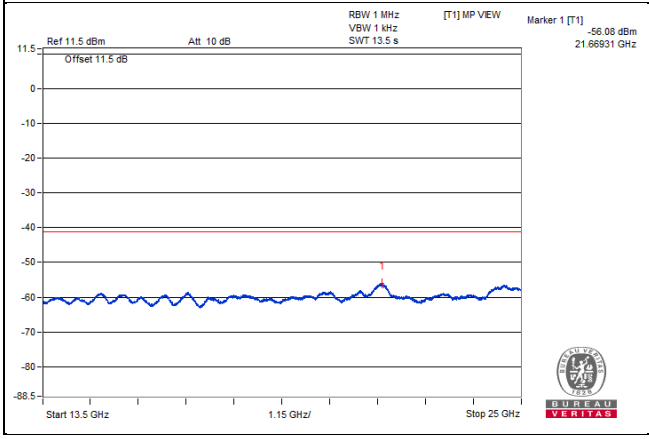
Chain 0

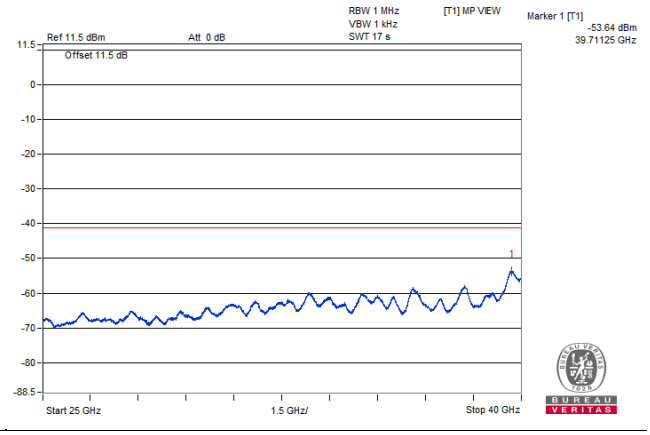

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.13 dBm
5.27187 GHz
Marker 2 [T1]
-46.49 dBm
3.12343 GHz
Marker 3 [T1]
-46.03 dBm
9.72968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.88 dBm
24.38475 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.88 dBm
39.74687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.68 dBm
5.27187 GHz
Marker 2 [T1]
-64.25 dBm
4.78906 GHz
Marker 3 [T1]
-68.31 dBm
7.37656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.08 dBm
21.66931 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

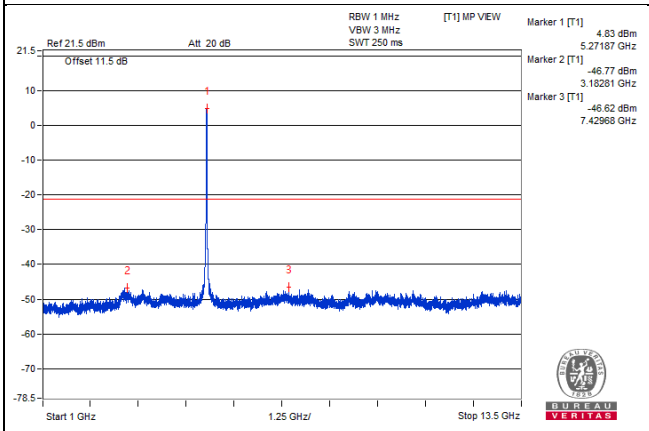

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.64 dBm
39.71125 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

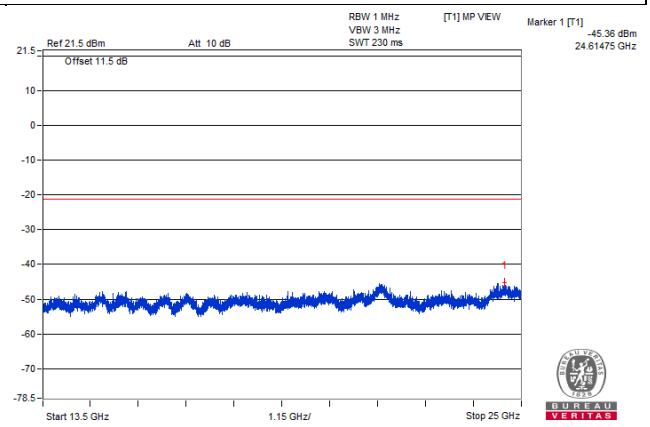
Chain 1

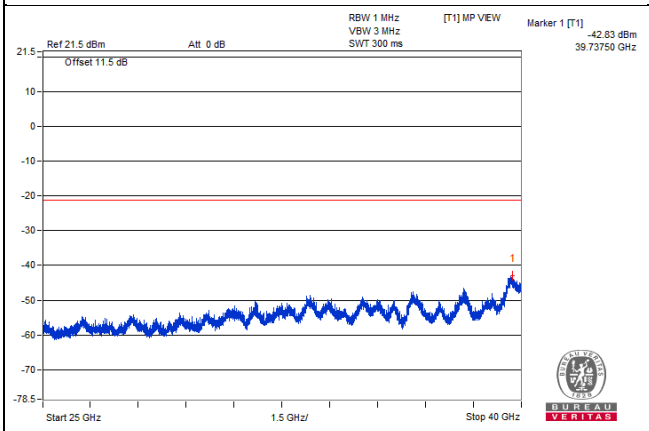
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5271.87 PK	108.36	*		4.83	8.27	13.1
2	3182.81 PK	56.76	68.2	-11.44	-46.77	8.27	-38.5
3	7429.68 PK	56.91	74	-17.09	-46.62	8.27	-38.35
4	24614.75 PK	58.17	68.2	-10.03	-45.36	8.27	-37.09
5	39737.5 PK	60.7	74	-13.3	-42.83	8.27	-34.56
6	5268.75 AV	99.89	*		-3.64	8.27	4.63
7	5100 AV	39.92	54	-14.08	-63.61	8.27	-55.34
8	10545.31 AV	34.52	#		-69.01	8.27	-60.74
9	21634.81 AV	46.76	#		-56.77	8.27	-48.5
10	39696.25 AV	49.05	54	-4.95	-54.48	8.27	-46.21

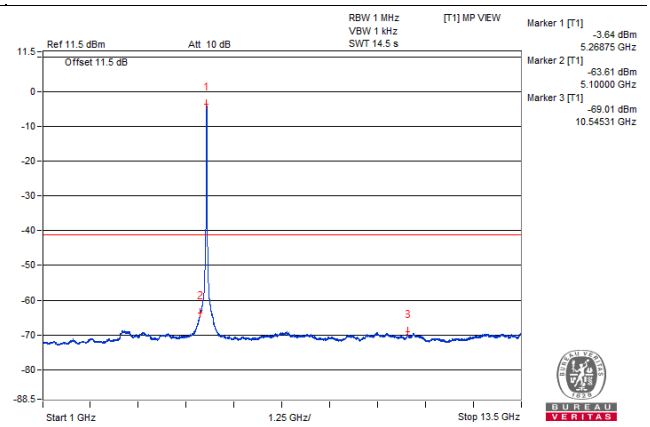
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

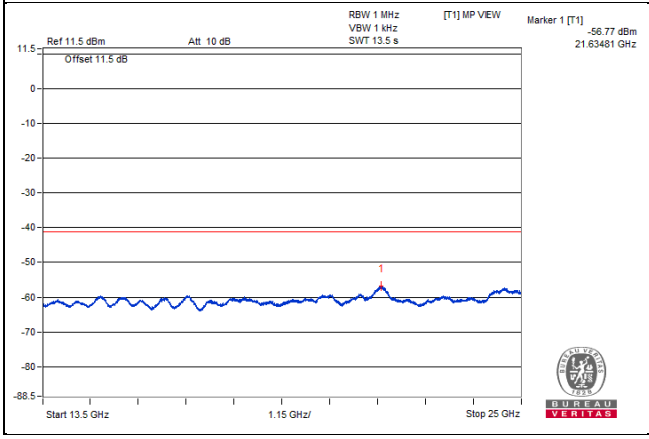
Chain 1

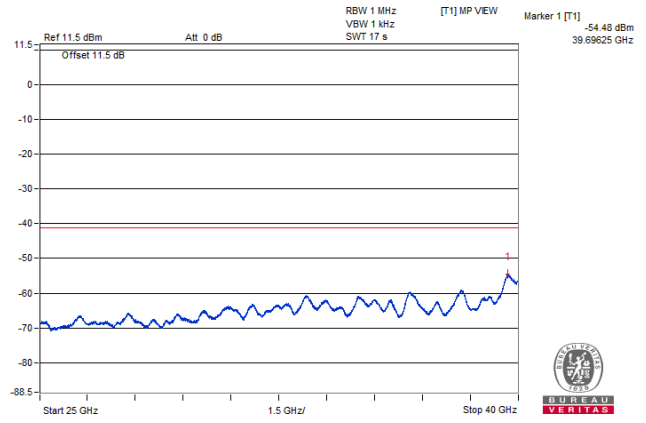

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.83 dBm
5.27187 GHz
Marker 2 [T1]
-46.77 dBm
3.18281 GHz
Marker 3 [T1]
-46.62 dBm
7.42968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.36 dBm
24.61475 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.83 dBm
39.73750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.64 dBm
5.26875 GHz
Marker 2 [T1]
-63.61 dBm
5.10000 GHz
Marker 3 [T1]
-69.01 dBm
10.54531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.77 dBm
21.63481 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.48 dBm
39.69625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

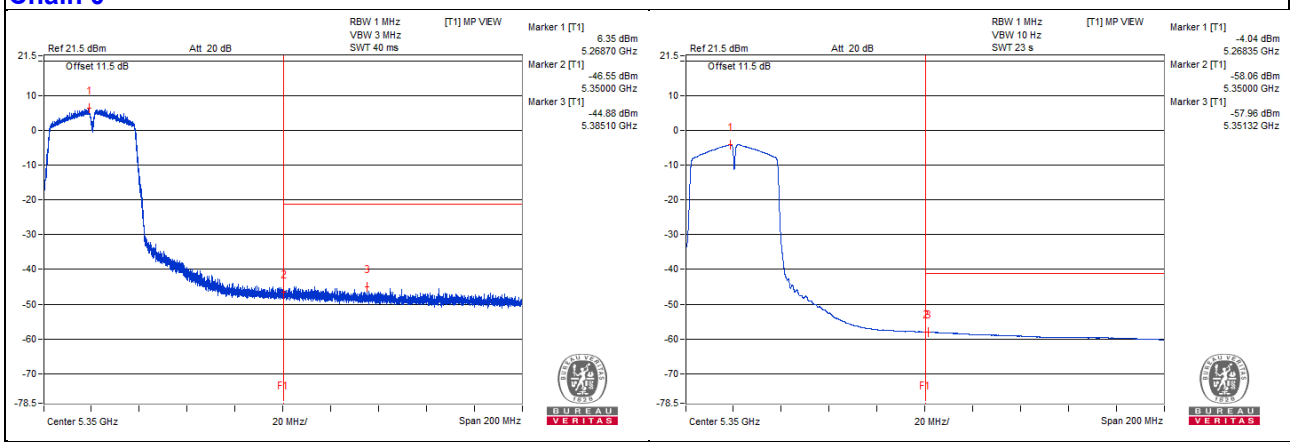
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5268.7 PK	108.06	*		6.35	6.45	12.8
2	5350 PK	55.16	74	-18.84	-46.55	6.45	-40.1
3	5385.1 PK	56.83	74	-17.17	-44.88	6.45	-38.43
4	5268.35 AV	97.67	*		-4.04	6.45	2.41
5	5350 AV	43.65	54	-10.35	-58.06	6.45	-51.61
6	5351.32 AV	43.75	54	-10.25	-57.96	6.45	-51.51

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



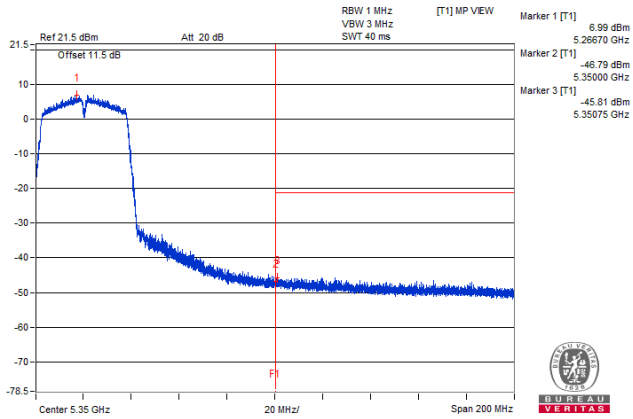
Chain 1

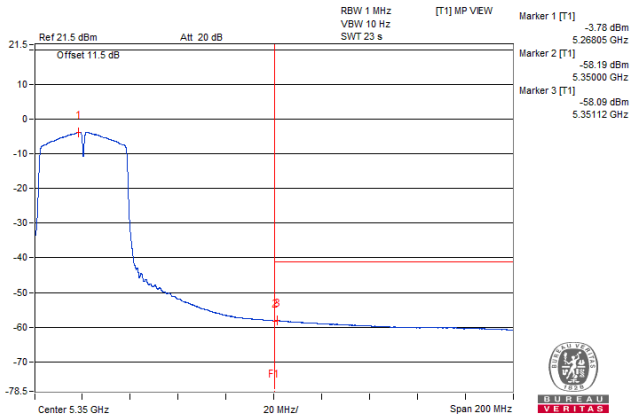
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5266.7 PK	108.4	*		6.99	6.15	13.14
2	5350 PK	54.62	74	-19.38	-46.79	6.15	-40.64
3	5350.75 PK	55.6	74	-18.4	-45.81	6.15	-39.66
4	5268.05 AV	97.63	*		-3.78	6.15	2.37
5	5350 AV	43.22	54	-10.78	-58.19	6.15	-52.04
6	5351.12 AV	43.32	54	-10.68	-58.09	6.15	-51.94

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT40) - Channel 62

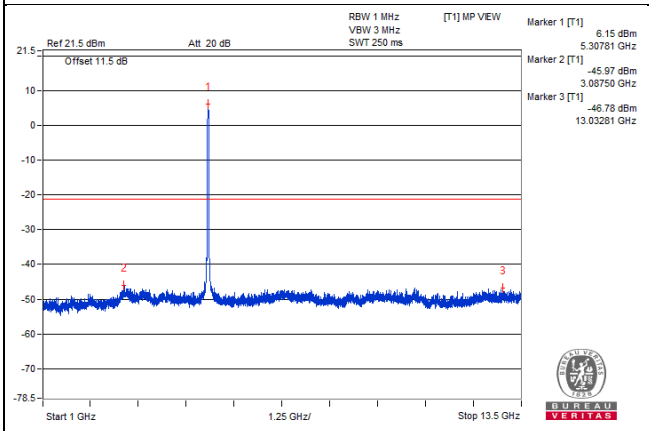
Conducted spurious emission table

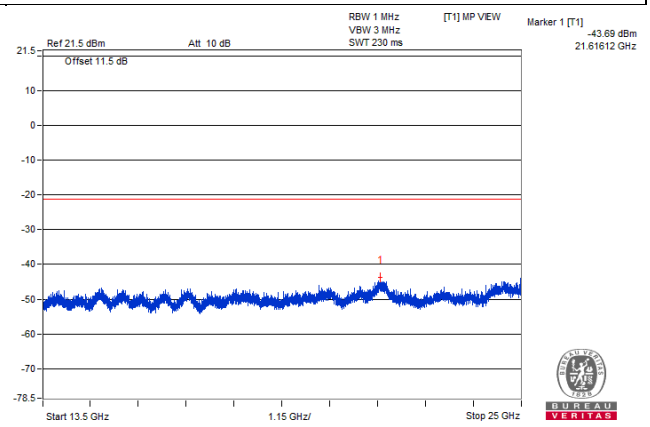
Chain 0

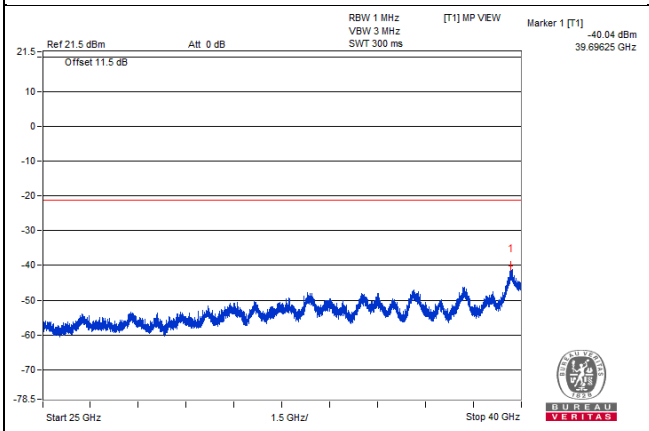
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5307.81 PK	108.25	*		6.15	6.84	12.99
2	3087.5 PK	56.13	68.2	-12.07	-45.97	6.84	-39.13
3	13032.81 PK	55.32	68.2	-12.88	-46.78	6.84	-39.94
4	21616.12 PK	58.41	68.2	-9.79	-43.69	6.84	-36.85
5	39696.25 PK	62.06	74	-11.94	-40.04	6.84	-33.2
6	5306.25 AV	99.06	*		-3.04	6.84	3.8
7	4829.68 AV	38.94	54	-15.06	-63.16	6.84	-56.32
8	5789.06 AV	39.43	#		-62.67	6.84	-55.83
9	21654.93 AV	46.07	#		-56.03	6.84	-49.19
10	39730 AV	48.45	54	-5.55	-53.65	6.84	-46.81

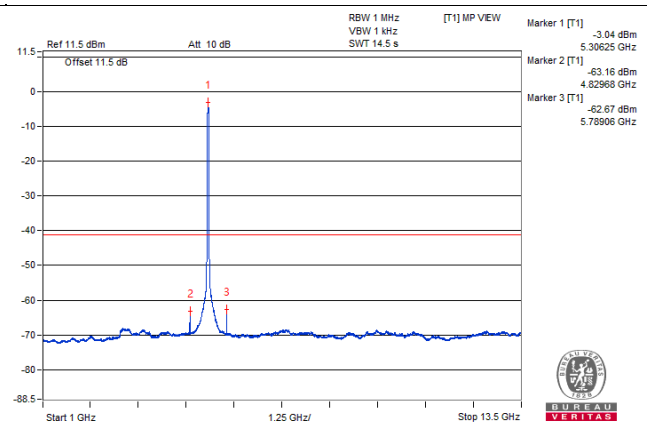
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

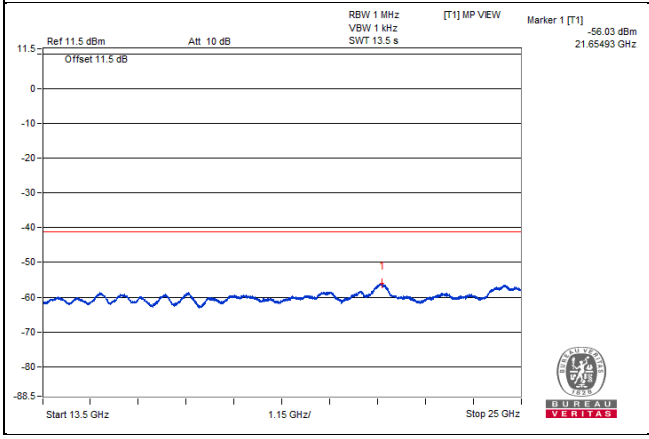
Chain 0

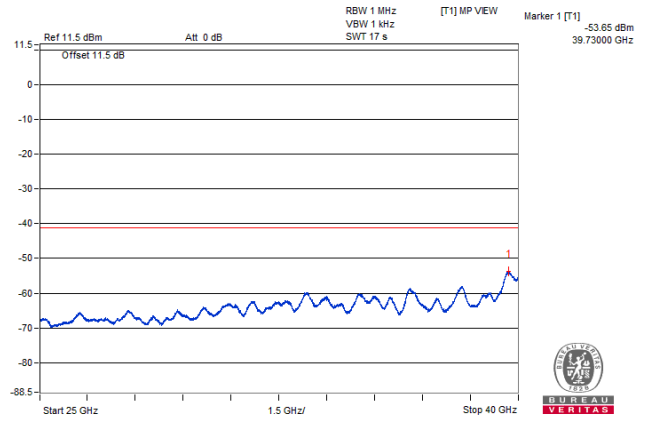

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.15 dBm
5.30781 GHz
Marker 2 [T1]
-45.97 dBm
3.08750 GHz
Marker 3 [T1]
-46.78 dBm
13.03281 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.69 dBm
21.61612 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.04 dBm
39.69625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.04 dBm
5.30625 GHz
Marker 2 [T1]
-63.16 dBm
4.82968 GHz
Marker 3 [T1]
-62.67 dBm
5.78906 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.03 dBm
21.65493 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

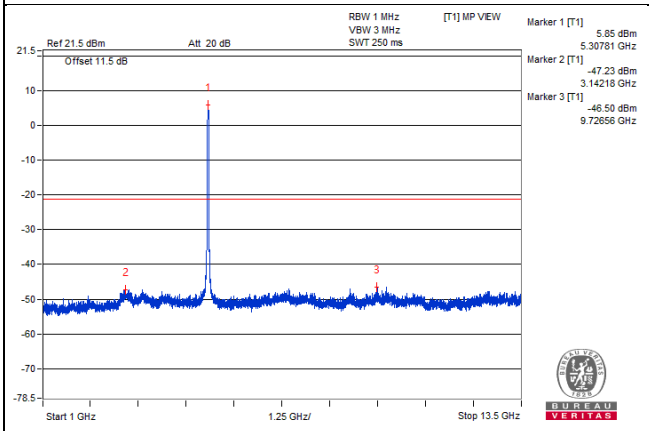

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.65 dBm
39.73000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

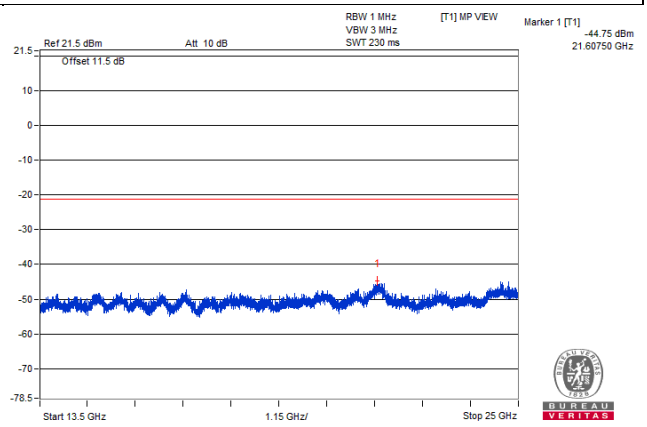
Chain 1

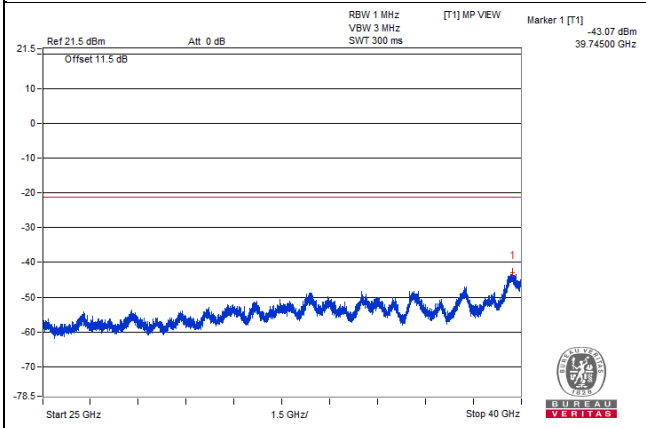
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5307.81 PK	109.38	*		5.85	8.27	14.12
2	3142.18 PK	56.3	68.2	-11.9	-47.23	8.27	-38.96
3	9726.56 PK	57.03	68.2	-11.17	-46.5	8.27	-38.23
4	21607.5 PK	58.78	68.2	-9.42	-44.75	8.27	-36.48
5	39745 PK	60.46	74	-13.54	-43.07	8.27	-34.8
6	5307.81 AV	100.53	*		-3	8.27	5.27
7	5098.43 AV	37.73	54	-16.27	-65.8	8.27	-57.53
8	9732.81 AV	34.45	#		-69.08	8.27	-60.81
9	21620.43 AV	46.78	#		-56.75	8.27	-48.48
10	39724.37 AV	48.92	54	-5.08	-54.61	8.27	-46.34

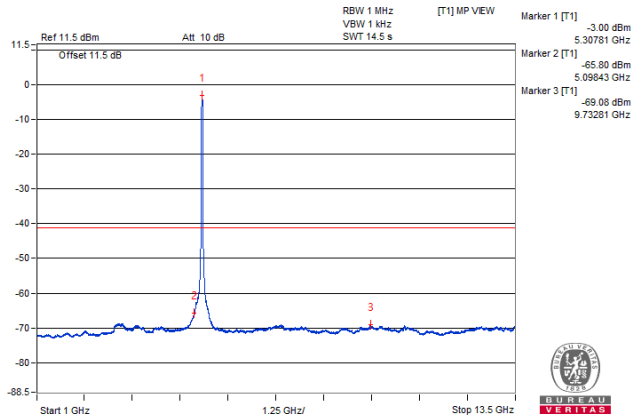
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

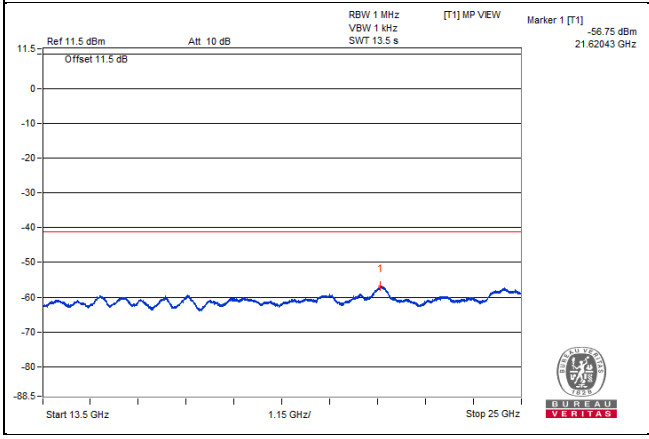
Chain 1

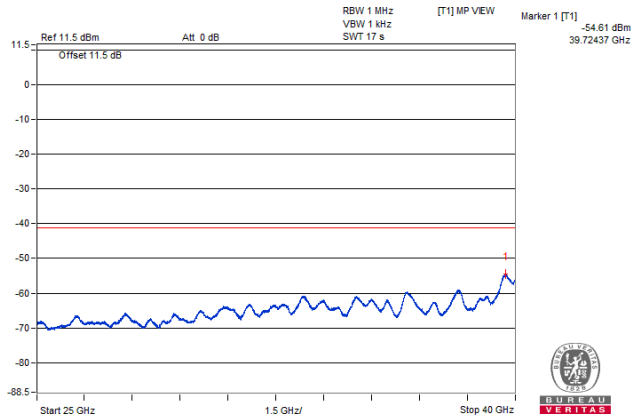

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.85 dBm
5.30781 GHz
Marker 2 [T1]
-47.23 dBm
3.14218 GHz
Marker 3 [T1]
-46.50 dBm
9.72656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.75 dBm
21.60750 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-43.07 dBm
39.74500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.00 dBm
5.30781 GHz
Marker 2 [T1]
-65.80 dBm
5.09843 GHz
Marker 3 [T1]
-69.08 dBm
9.73281 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.75 dBm
21.62043 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.61 dBm
39.72437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

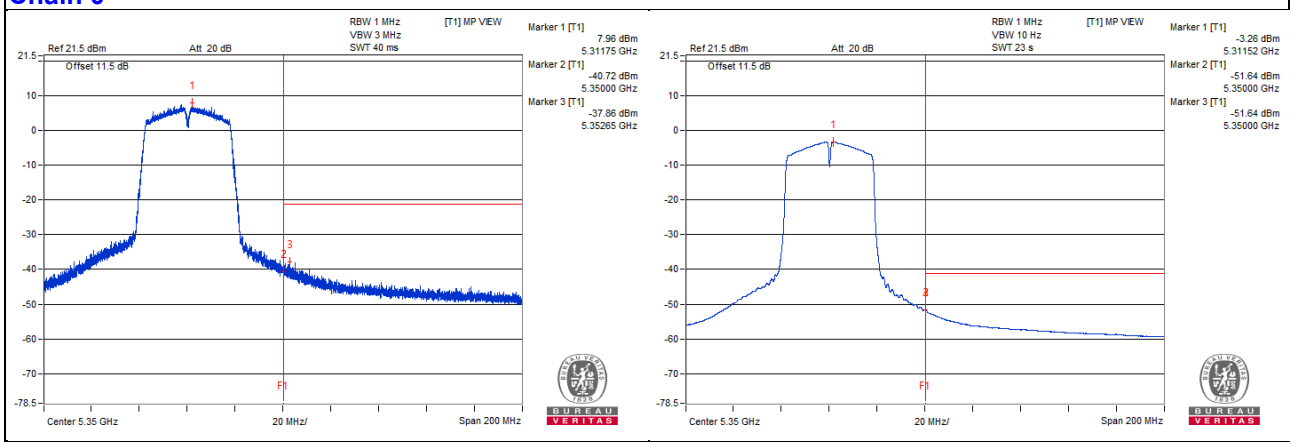
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5311.75 PK	109.67	*		7.96	6.45	14.41
2	5350 PK	60.99	74	-13.01	-40.72	6.45	-34.27
3	5352.65 PK	63.85	74	-10.15	-37.86	6.45	-31.41
4	5311.52 AV	98.45	*		-3.26	6.45	3.19
5	5350 AV	50.07	54	-3.93	-51.64	6.45	-45.19
6	5350 AV	50.07	54	-3.93	-51.64	6.45	-45.19

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



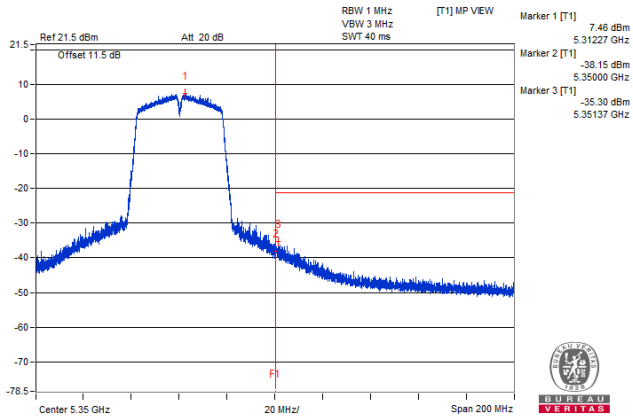
Chain 1

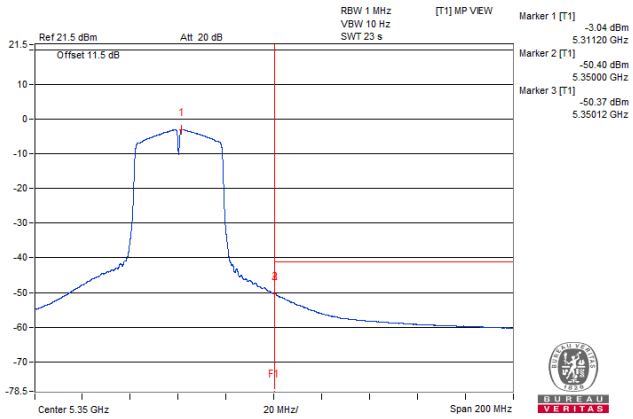
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5312.27 PK	108.87	*		7.46	6.15	13.61
2	5350 PK	63.26	74	-10.74	-38.15	6.15	-32
3	5351.37 PK	66.11	74	-7.89	-35.3	6.15	-29.15
4	5311.2 AV	98.37	*		-3.04	6.15	3.11
5	5350 AV	51.01	54	-2.99	-50.4	6.15	-44.25
6	5350.12 AV	51.04	54	-2.96	-50.37	6.15	-44.22

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT40) - Channel 102

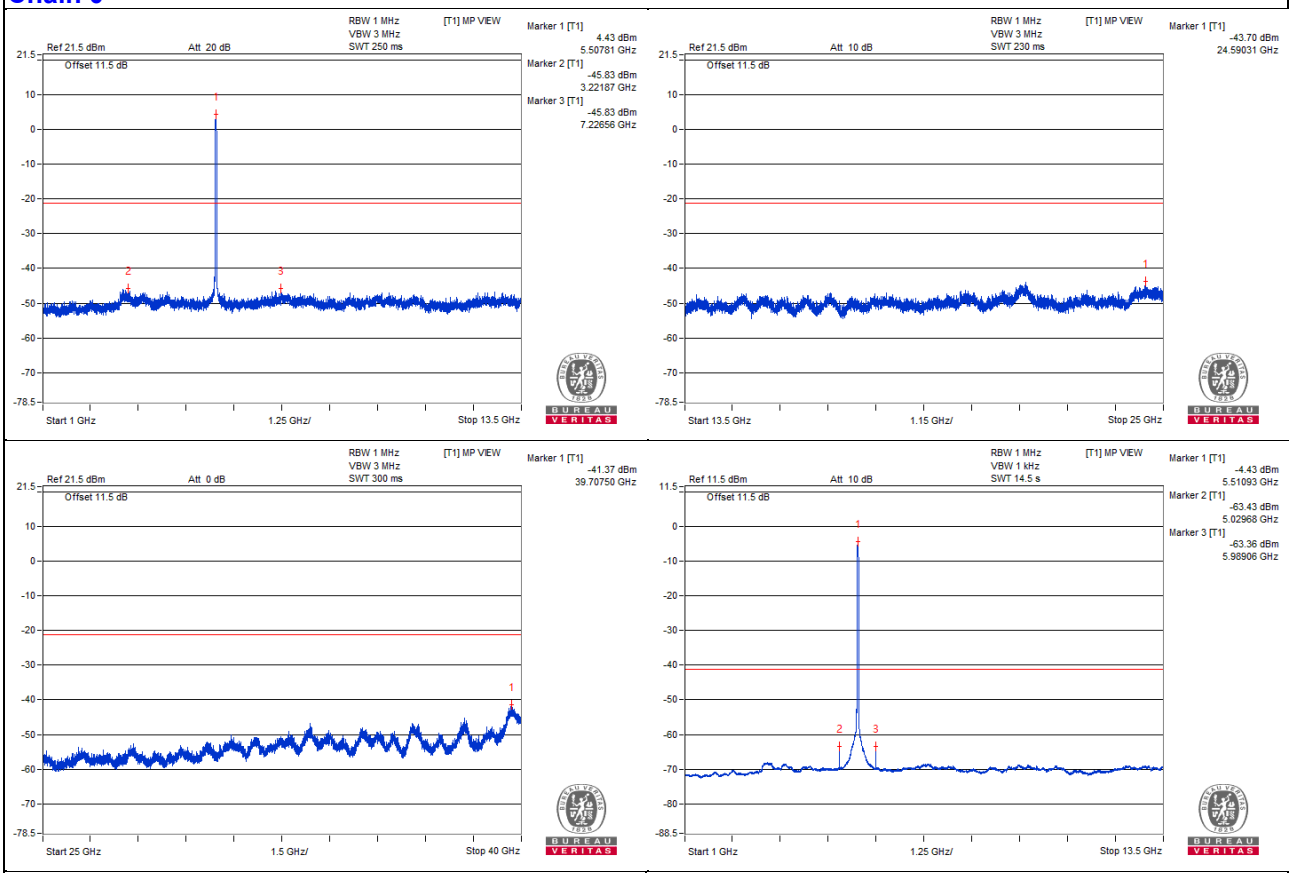
Conducted spurious emission table

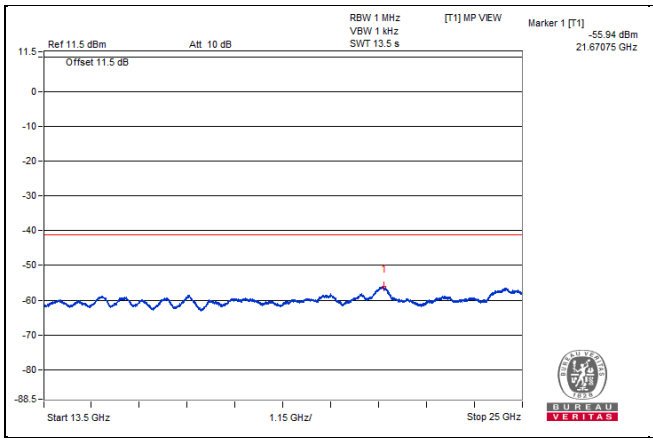
Chain 0

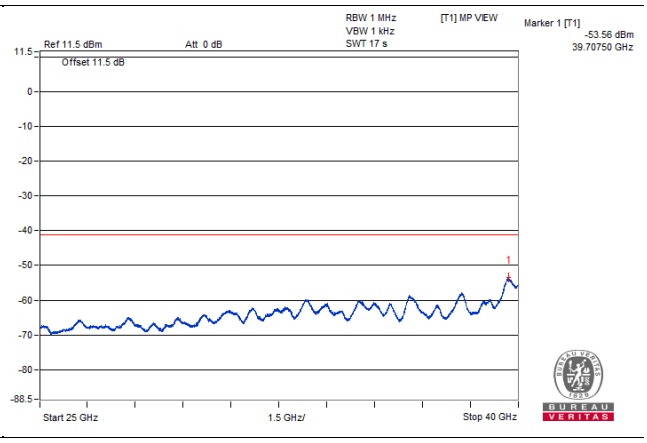
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5507.81 PK	106.53	*		4.43	6.84	11.27
2	3221.87 PK	56.27	68.2	-11.93	-45.83	6.84	-38.99
3	7226.56 PK	56.27	68.2	-11.93	-45.83	6.84	-38.99
4	24590.31 PK	58.4	68.2	-9.8	-43.7	6.84	-36.86
5	39707.5 PK	60.73	74	-13.27	-41.37	6.84	-34.53
6	5510.93 AV	97.67	*		-4.43	6.84	2.41
7	5029.68 AV	38.67	54	-15.33	-63.43	6.84	-56.59
8	5989.06 AV	38.74	#		-63.36	6.84	-56.52
9	21670.75 AV	46.16	#		-55.94	6.84	-49.1
10	39707.5 AV	48.54	54	-5.46	-53.56	6.84	-46.72

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0




RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-55.94 dBm
21.67075 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
11.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-88.5
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

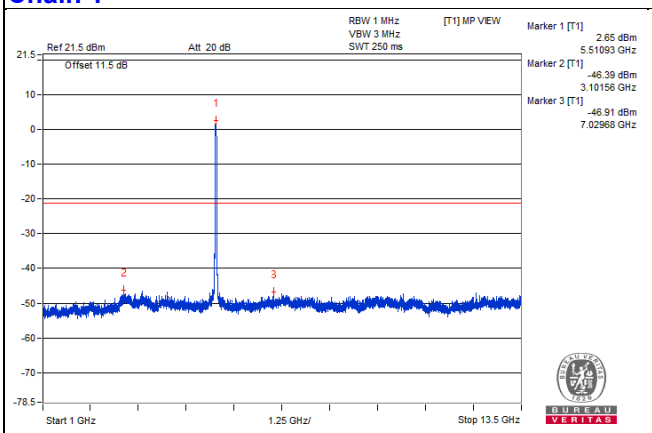

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.56 dBm
39.70750 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
11.5
0
-10
-20
-30
-40
-50
-60
-70
-80
-88.5
Start 25 GHz
1.5 GHz/
Stop 40 GHz

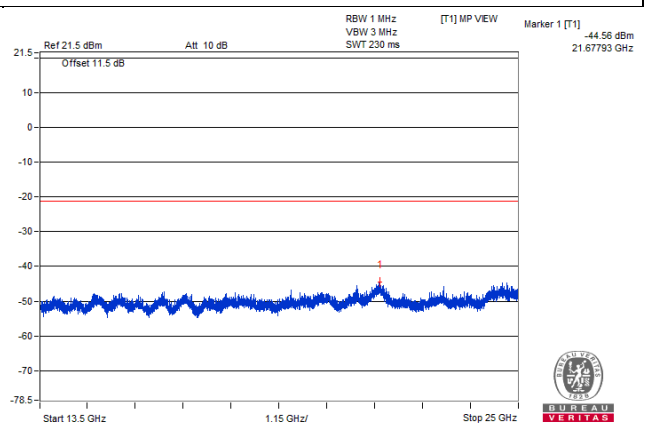
Chain 1

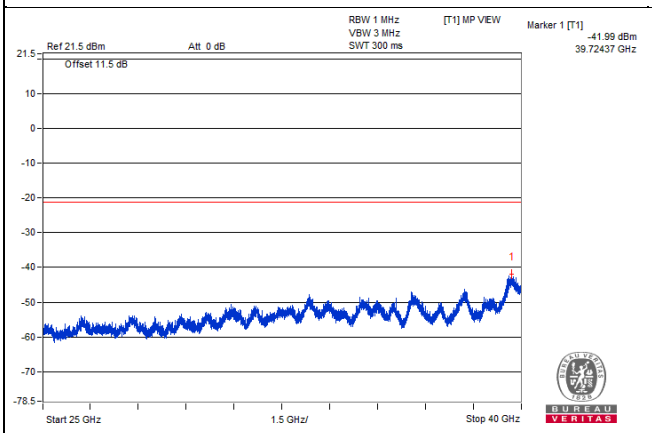
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5510.93 PK	106.18	*		2.65	8.27	10.92
2	3101.56 PK	57.14	68.2	-11.06	-46.39	8.27	-38.12
3	7029.68 PK	56.62	68.2	-11.58	-46.91	8.27	-38.64
4	21677.93 PK	58.97	68.2	-9.23	-44.56	8.27	-36.29
5	39724.37 PK	61.54	74	-12.46	-41.99	8.27	-33.72
6	5507.81 AV	97.27	*		-6.26	8.27	2.01
7	4407.81 AV	35.95	#		-67.58	8.27	-59.31
8	5781.25 AV	34.63	#		-68.9	8.27	-60.63
9	21676.5 AV	46.99	#		-56.54	8.27	-48.27
10	39705.62 AV	49.2	54	-4.8	-54.33	8.27	-46.06

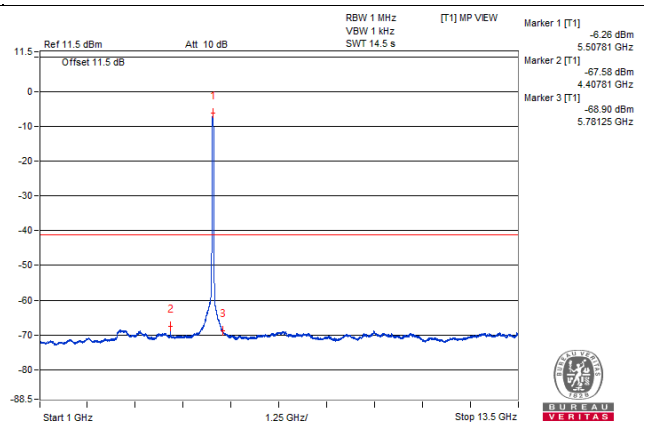
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

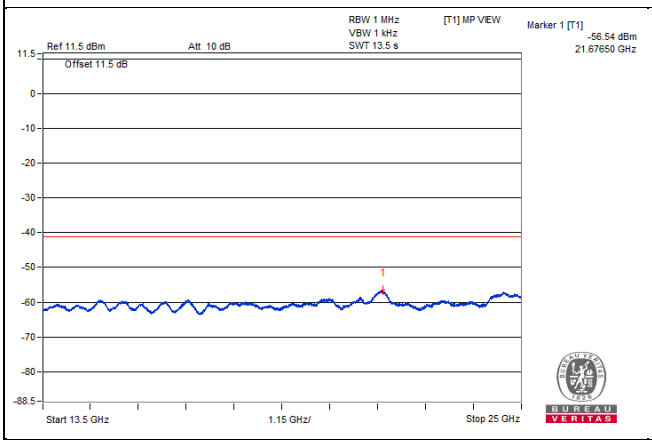
Chain 1

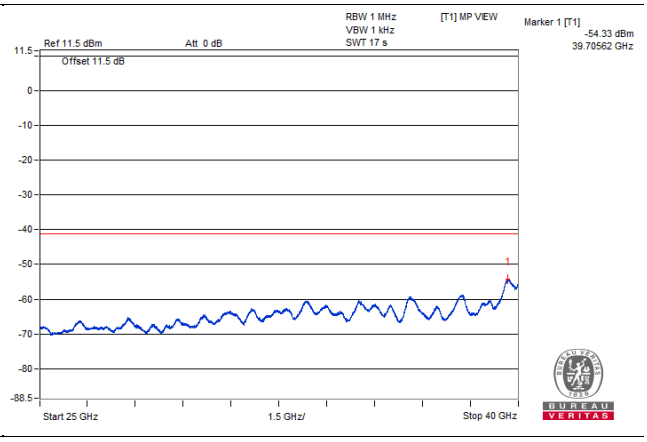

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
2.65 dBm
5.51093 GHz
Marker 2 [T1]
-46.39 dBm
3.10156 GHz
Marker 3 [T1]
-46.91 dBm
7.02968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.56 dBm
21.67793 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.99 dBm
39.72437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-6.26 dBm
5.50781 GHz
Marker 2 [T1]
-67.58 dBm
4.40781 GHz
Marker 3 [T1]
-68.90 dBm
5.78125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.54 dBm
21.67650 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.33 dBm
39.70562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

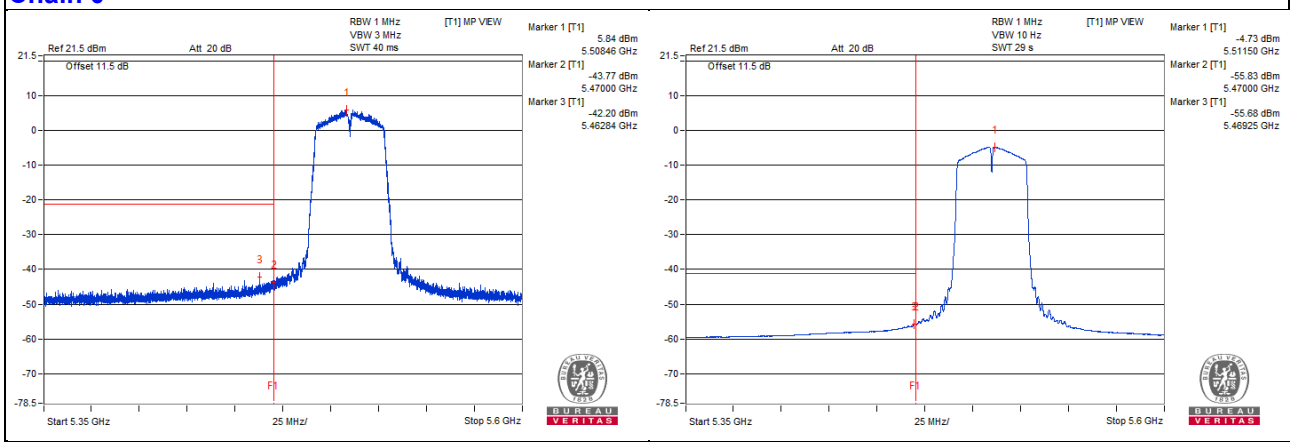
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5508.46 PK	107.94	*		5.84	6.84	12.68
2	5470 PK	58.33	68.2	-9.87	-43.77	6.84	-36.93
3	5462.84 PK	59.9	68.2	-8.3	-42.2	6.84	-35.36
4	5511.5 AV	97.37	*		-4.73	6.84	2.11
5	5470 AV	46.27	#		-55.83	6.84	-48.99
6	5469.25 AV	46.42	#		-55.68	6.84	-48.84

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



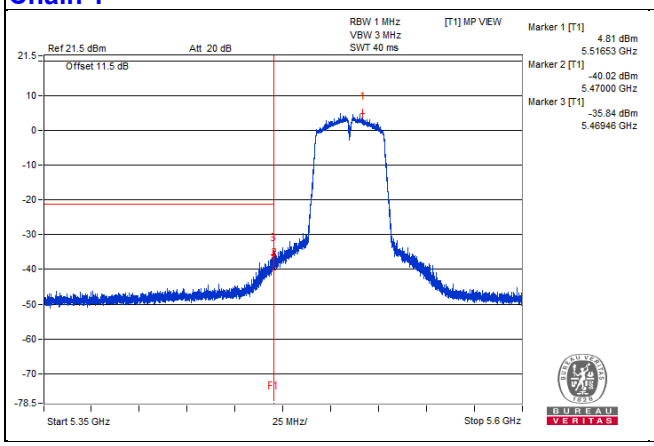
Chain 1

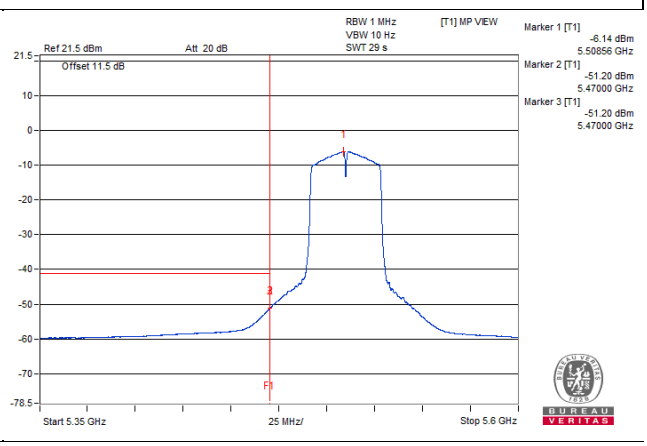
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5516.53 PK	105.87	*		4.81	5.8	10.61
2	5470 PK	61.04	68.2	-7.16	-40.02	5.8	-34.22
3	5469.46 PK	65.22	68.2	-2.98	-35.84	5.8	-30.04
4	5508.56 AV	94.92	*		-6.14	5.8	-0.34
5	5470 AV	49.86	#		-51.2	5.8	-45.4
6	5470 AV	49.86	#		-51.2	5.8	-45.4

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT40) - Channel 110

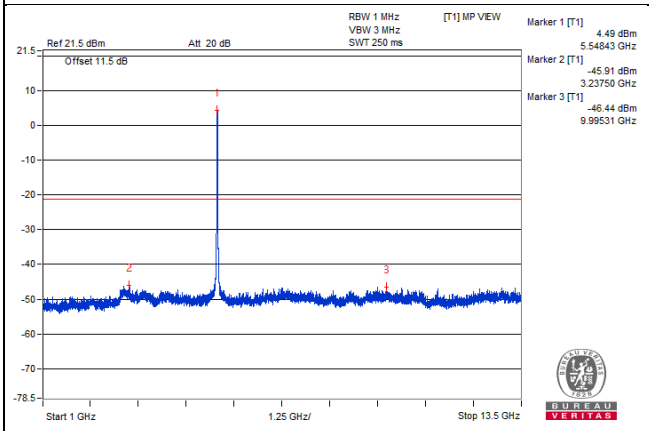
Conducted spurious emission table

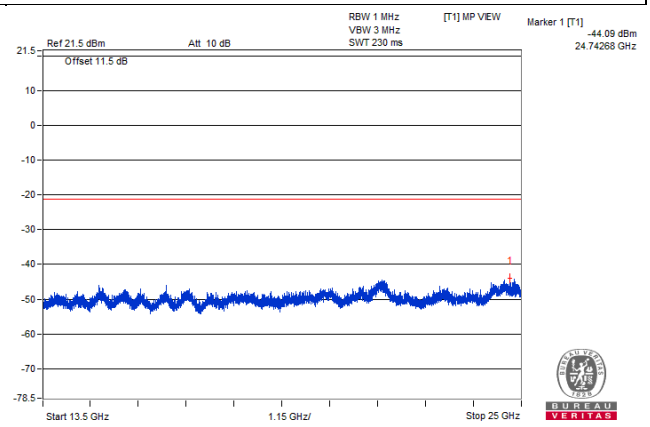
Chain 0

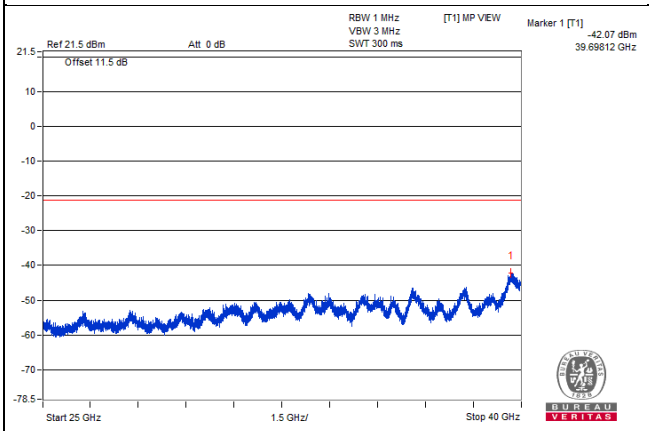
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5548.43 PK	106.59	*		4.49	6.84	11.33
2	3237.5 PK	56.19	68.2	-12.01	-45.91	6.84	-39.07
3	9995.31 PK	55.66	68.2	-12.54	-46.44	6.84	-39.6
4	24742.68 PK	58.01	68.2	-10.19	-44.09	6.84	-37.25
5	39698.12 PK	60.03	74	-13.97	-42.07	6.84	-35.23
6	5551.56 AV	98.22	*		-3.88	6.84	2.96
7	5070.31 AV	38.55	54	-15.45	-63.55	6.84	-56.71
8	6029.68 AV	38.86	#		-63.24	6.84	-56.4
9	21643.43 AV	46.14	#		-55.96	6.84	-49.12
10	39707.5 AV	48.84	54	-5.16	-53.26	6.84	-46.42

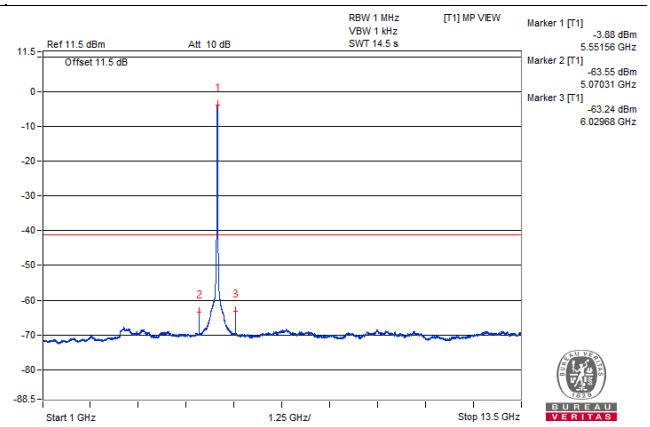
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

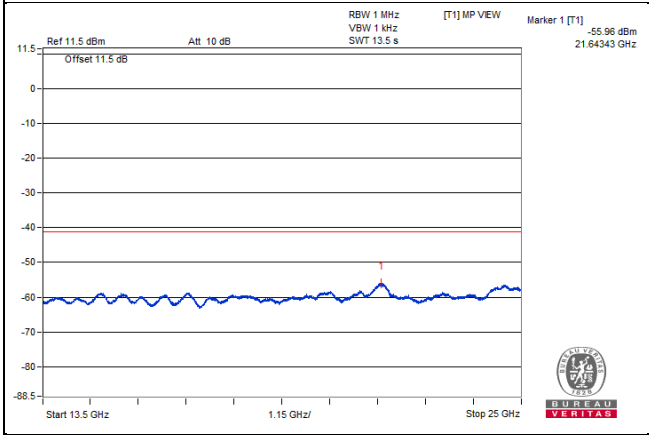
Chain 0

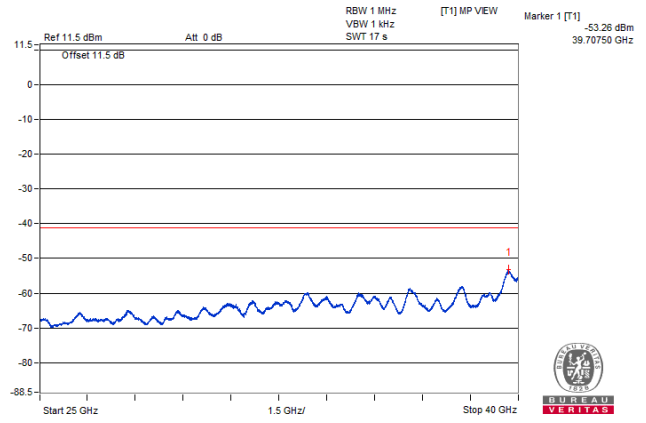

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.49 dBm
5.54843 GHz
Marker 2 [T1]
-45.91 dBm
3.23750 GHz
Marker 3 [T1]
-46.44 dBm
9.99531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.09 dBm
24.74268 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.07 dBm
39.69812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.88 dBm
5.55156 GHz
Marker 2 [T1]
-63.55 dBm
5.07031 GHz
Marker 3 [T1]
-63.24 dBm
6.02968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.96 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

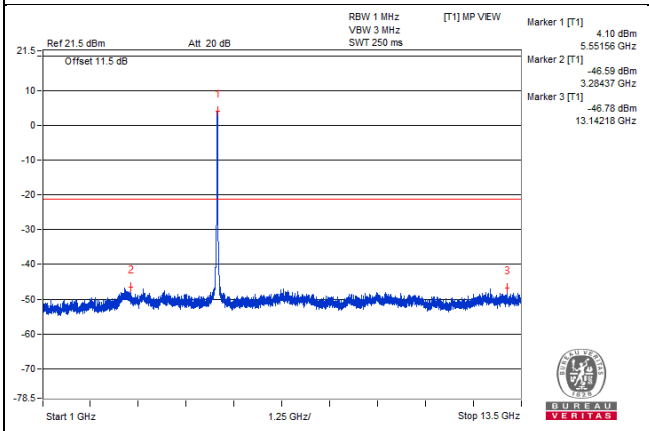

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.26 dBm
39.70750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

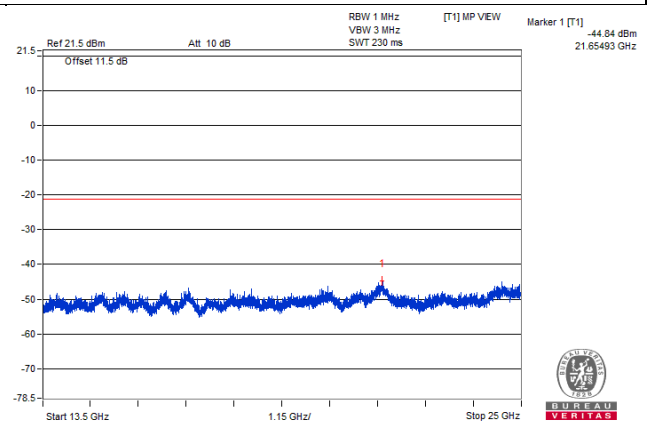
Chain 1

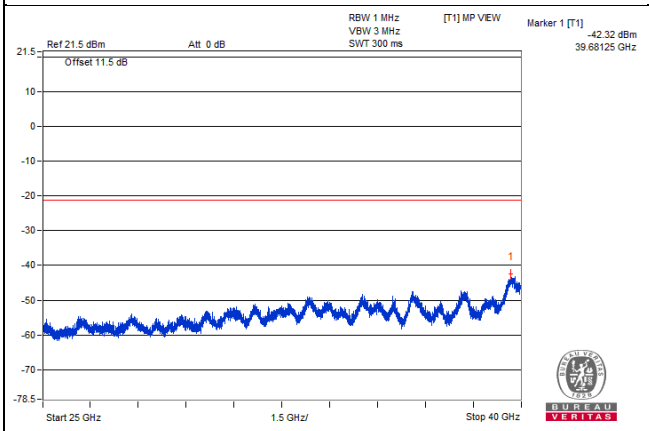
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5551.56 PK	107.63	*		4.1	8.27	12.37
2	3284.37 PK	56.94	68.2	-11.26	-46.59	8.27	-38.32
3	13142.18 PK	56.75	68.2	-11.45	-46.78	8.27	-38.51
4	21654.93 PK	58.69	68.2	-9.51	-44.84	8.27	-36.57
5	39681.25 PK	61.21	74	-12.79	-42.32	8.27	-34.05
6	5548.43 AV	99.24	*		-4.29	8.27	3.98
7	4439.06 AV	37.52	#		-66.01	8.27	-57.74
8	5776.56 AV	35.2	#		-68.33	8.27	-60.06
9	21629.06 AV	46.8	#		-56.73	8.27	-48.46
10	39707.5 AV	48.99	54	-5.01	-54.54	8.27	-46.27

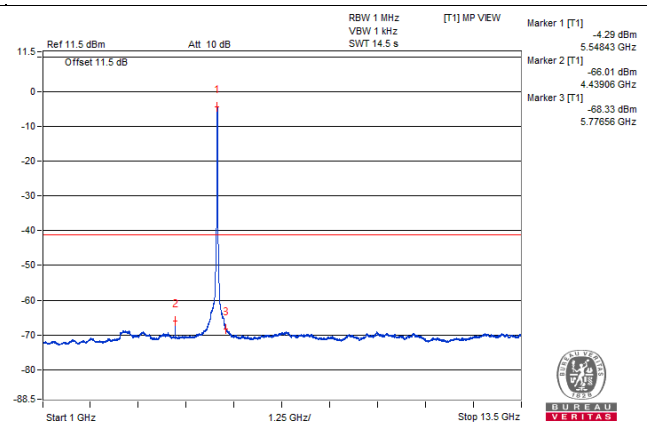
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

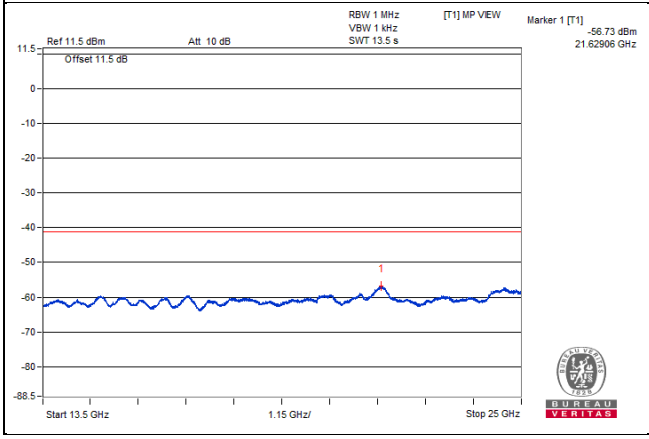
Chain 1

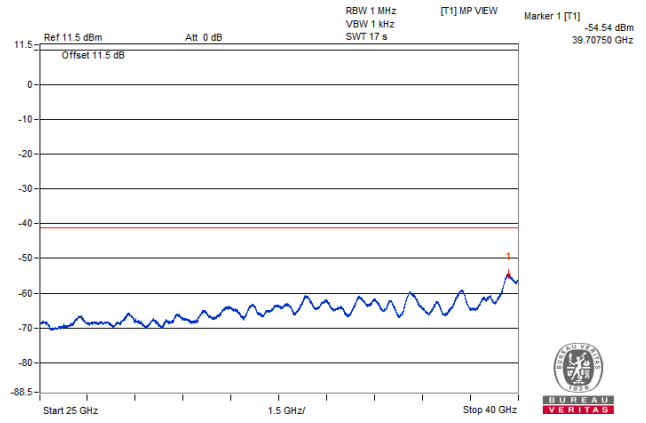

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.10 dBm
5.55156 GHz
Marker 2 [T1]
-46.59 dBm
3.28437 GHz
Marker 3 [T1]
-46.78 dBm
13.14218 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.84 dBm
21.65493 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.32 dBm
39.68125 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.29 dBm
5.54843 GHz
Marker 2 [T1]
-66.01 dBm
4.43906 GHz
Marker 3 [T1]
-68.33 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.73 dBm
21.62906 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.54 dBm
39.70750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

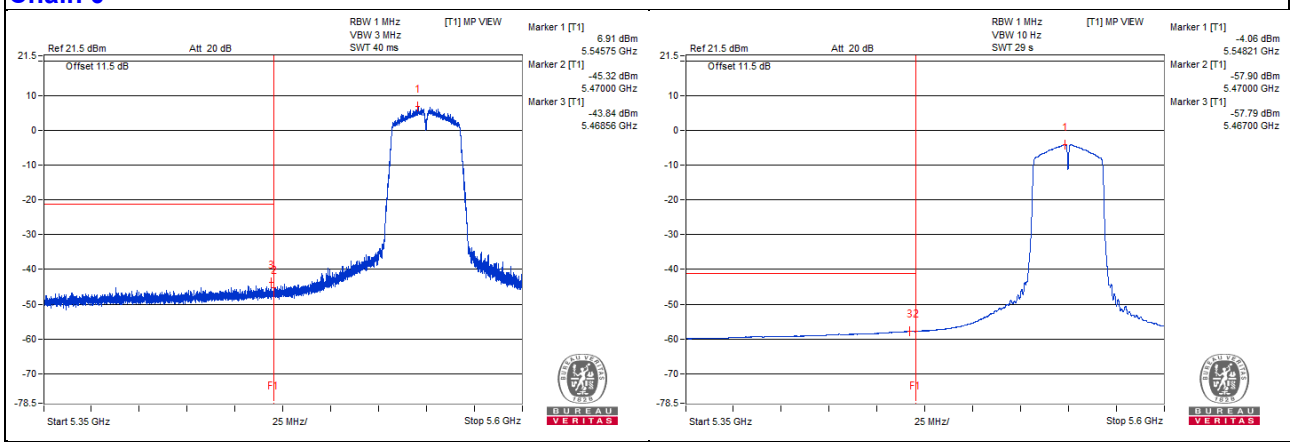
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5545.75 PK	109.01	*		6.91	6.84	13.75
2	5470 PK	56.78	68.2	-11.42	-45.32	6.84	-38.48
3	5468.56 PK	58.26	68.2	-9.94	-43.84	6.84	-37
4	5548.21 AV	98.04	*		-4.06	6.84	2.78
5	5470 AV	44.2	#		-57.9	6.84	-51.06
6	5467 AV	44.31	#		-57.79	6.84	-50.95

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

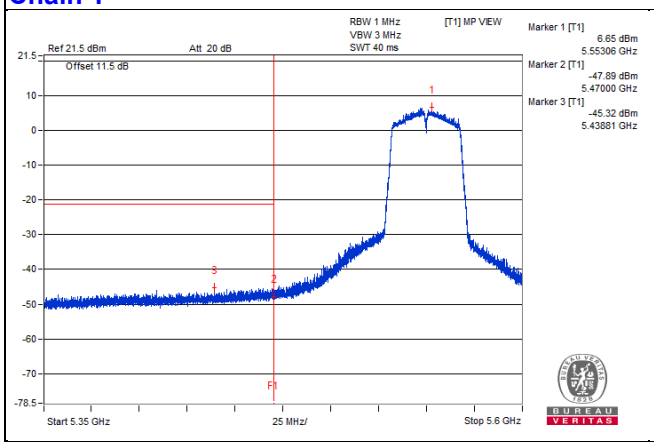


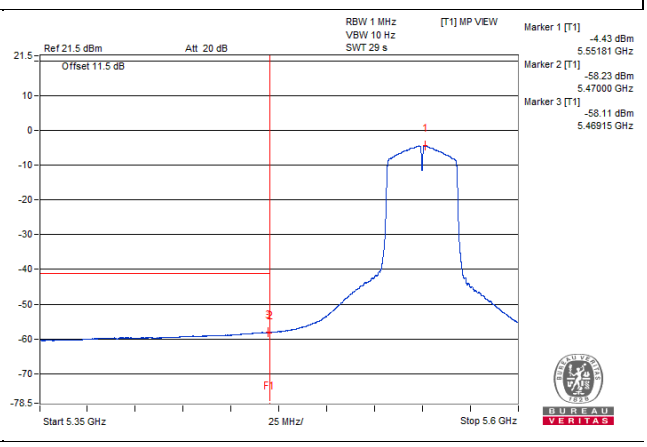
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5553.06 PK	107.71	*		6.65	5.8	12.45
2	5470 PK	53.17	68.2	-15.03	-47.89	5.8	-42.09
3	5438.81 PK	55.74	74	-18.26	-45.32	5.8	-39.52
4	5551.81 AV	96.63	*		-4.43	5.8	1.37
5	5470 AV	42.83	#		-58.23	5.8	-52.43
6	5469.15 AV	42.95	#		-58.11	5.8	-52.31

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT40) - Channel 134

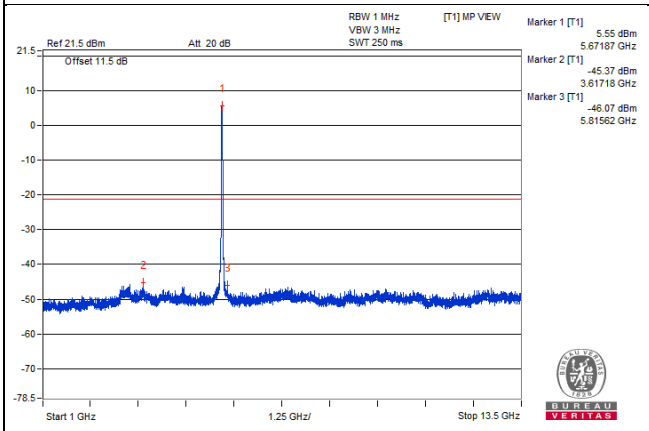
Conducted spurious emission table

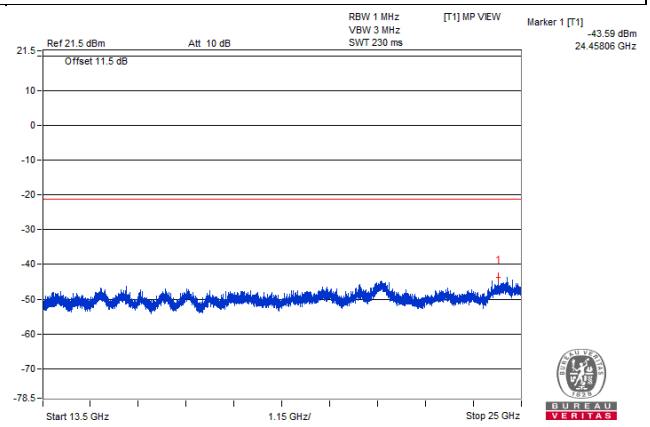
Chain 0

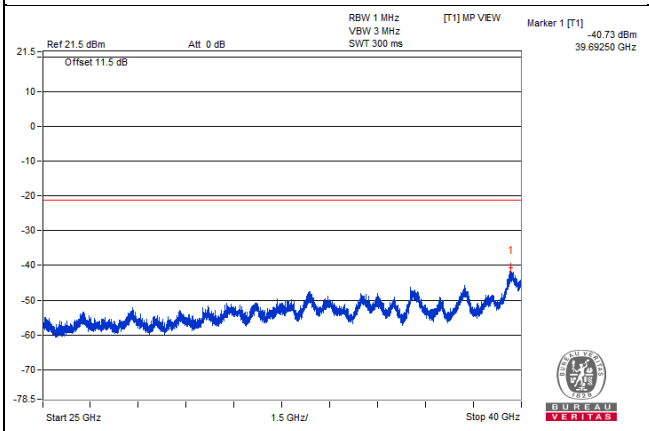
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5671.87 PK	107.65	*		5.55	6.84	12.39
2	3617.18 PK	56.73	74	-17.27	-45.37	6.84	-38.53
3	5815.62 PK	56.03	68.2	-12.17	-46.07	6.84	-39.23
4	24458.06 PK	58.51	68.2	-9.69	-43.59	6.84	-36.75
5	39692.5 PK	61.37	74	-12.63	-40.73	6.84	-33.89
6	5670.31 AV	98.95	*		-3.15	6.84	3.69
7	3106.25 AV	33.96	#		-68.14	6.84	-61.3
8	5779.68 AV	40.99	#		-61.11	6.84	-54.27
9	21631.93 AV	46.1	#		-56	6.84	-49.16
10	39692.5 AV	48.63	54	-5.37	-53.47	6.84	-46.63

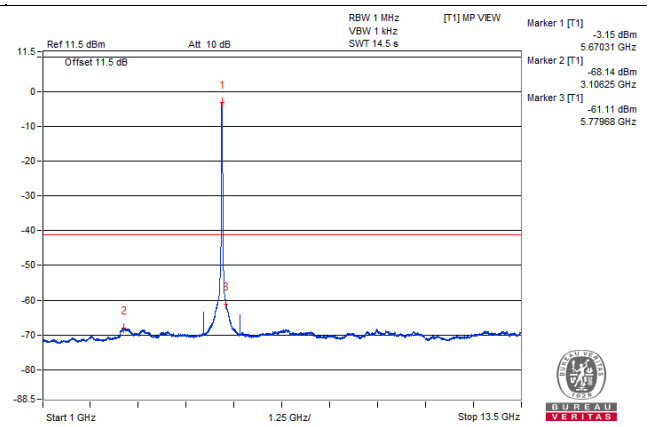
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

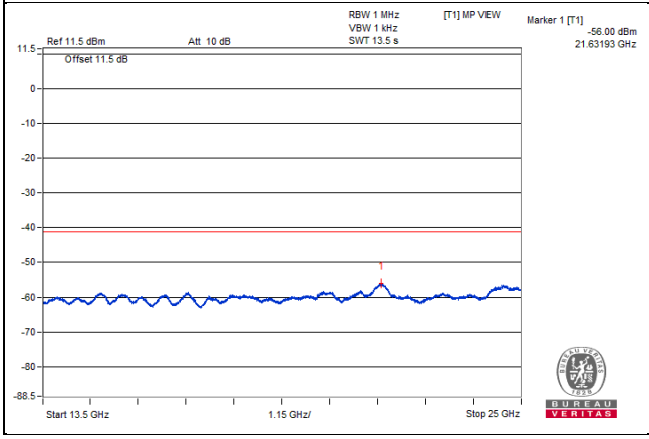
Chain 0

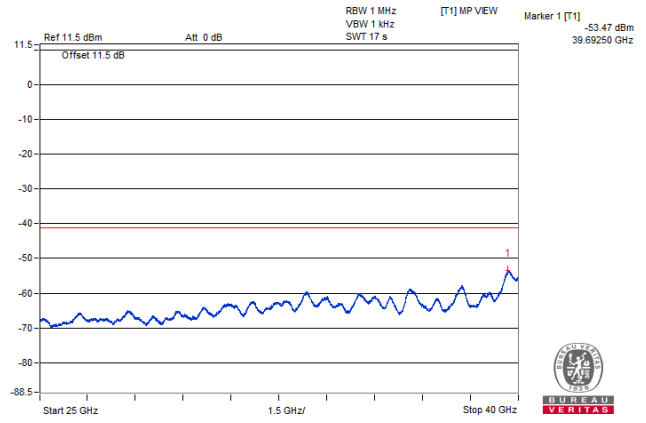

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
5.55 dBm
5.67187 GHz
Marker 2 [T1]
-45.37 dBm
3.61718 GHz
Marker 3 [T1]
-46.07 dBm
5.81562 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.59 dBm
24.45806 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.73 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-3.15 dBm
5.67031 GHz
Marker 2 [T1]
-68.14 dBm
3.10625 GHz
Marker 3 [T1]
-61.11 dBm
5.77968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.00 dBm
21.63193 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.47 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

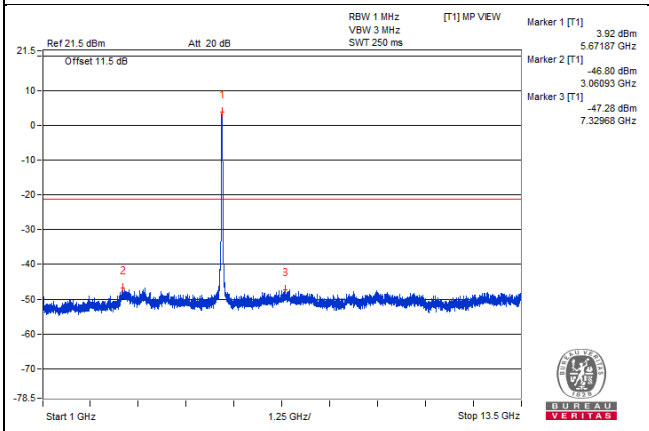
Chain 1

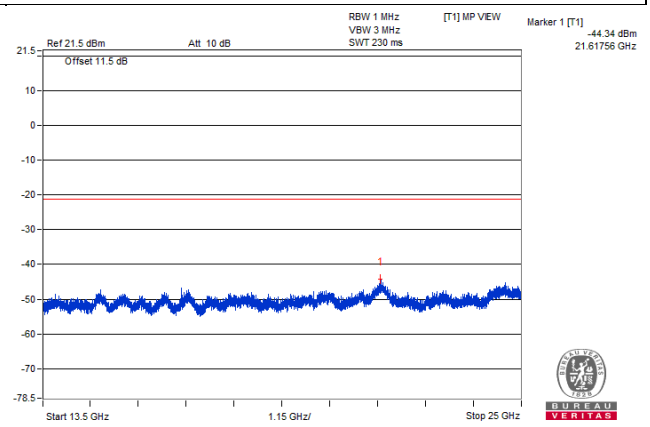
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5671.87 PK	107.45	*		3.92	8.27	12.19
2	3060.93 PK	56.73	68.2	-11.47	-46.8	8.27	-38.53
3	7329.68 PK	56.25	74	-17.75	-47.28	8.27	-39.01
4	21617.56 PK	59.19	68.2	-9.01	-44.34	8.27	-36.07
5	39694.37 PK	61.14	74	-12.86	-42.39	8.27	-34.12
6	5671.87 AV	99.25	*		-4.28	8.27	3.99
7	4535.93 AV	37.96	54	-16.04	-65.57	8.27	-57.3
8	5775 AV	41.19	#		-62.34	8.27	-54.07
9	21662.12 AV	46.85	#		-56.68	8.27	-48.41
10	39715 AV	49.14	54	-4.86	-54.39	8.27	-46.12

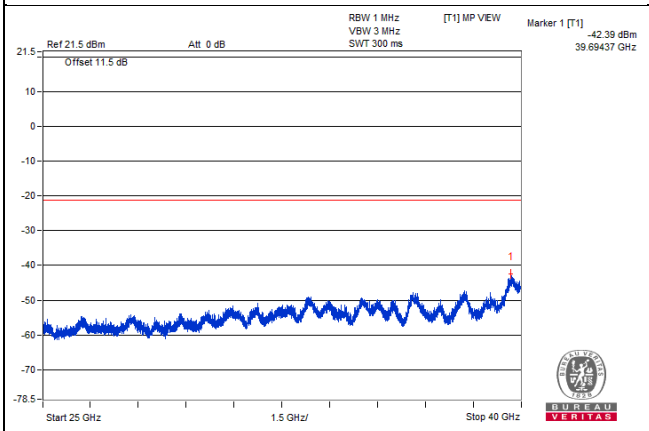
Note :

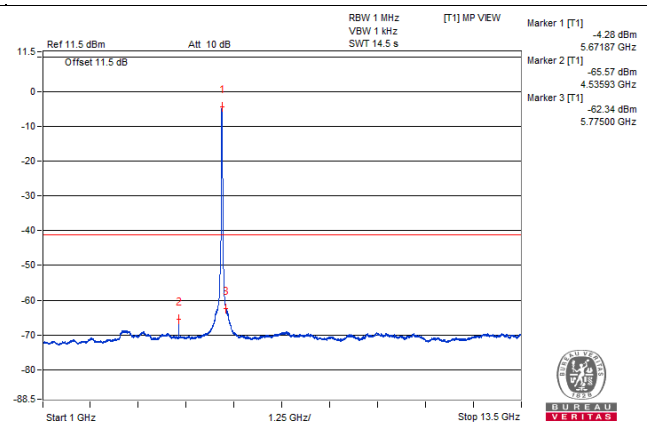
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

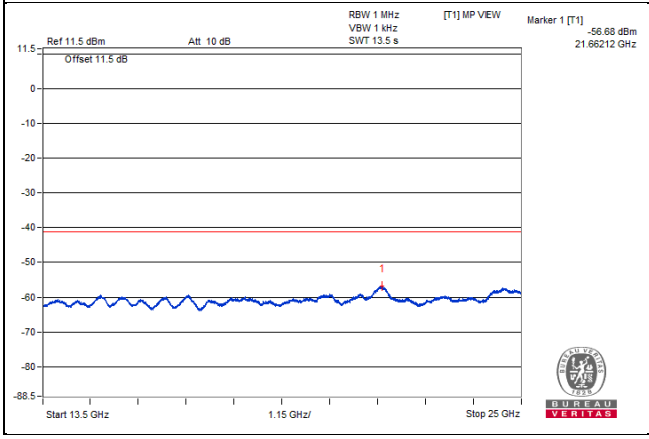
Chain 1

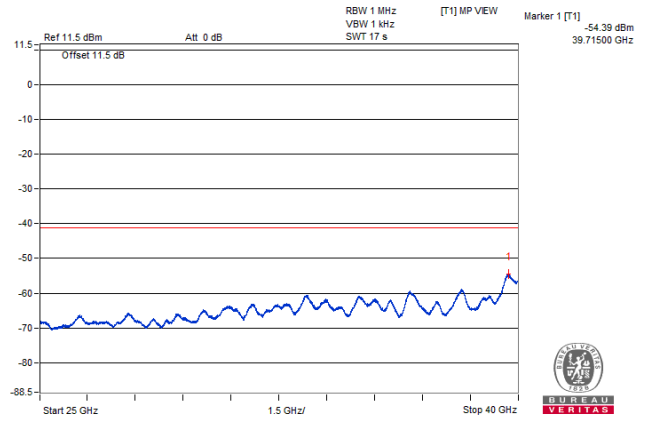

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.92 dBm
5.67187 GHz
Marker 2 [T1]
-46.80 dBm
3.06093 GHz
Marker 3 [T1]
-47.28 dBm
7.32968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.34 dBm
21.61756 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.39 dBm
39.69437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.28 dBm
5.67187 GHz
Marker 2 [T1]
-65.57 dBm
4.53593 GHz
Marker 3 [T1]
-62.34 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.68 dBm
21.66212 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.39 dBm
39.71500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

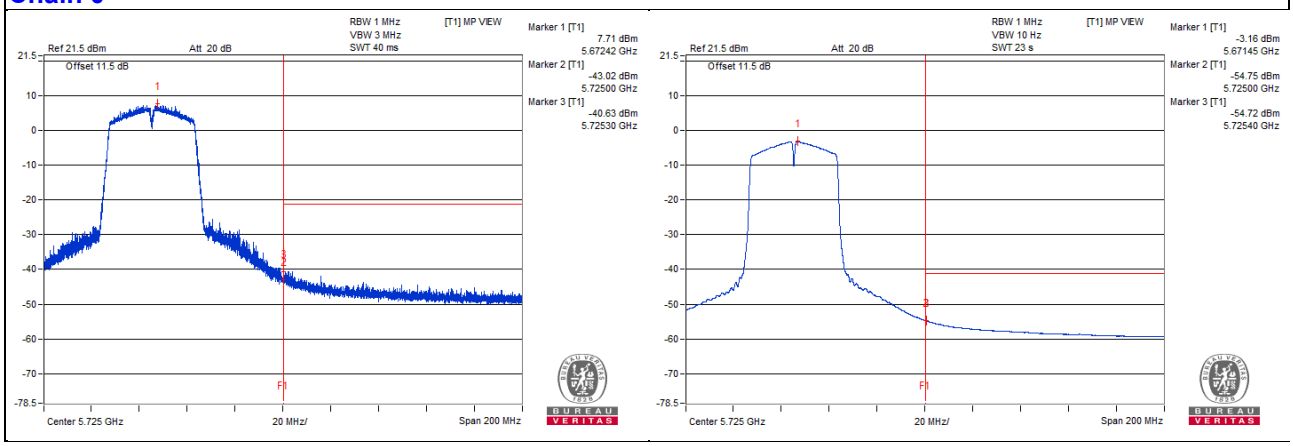
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5672.42 PK	109.81	*		7.71	6.84	14.55
2	5725 PK	59.08	68.2	-9.12	-43.02	6.84	-36.18
3	5725.3 PK	61.47	68.2	-6.73	-40.63	6.84	-33.79
4	5671.45 AV	98.94	*		-3.16	6.84	3.68
5	5725 AV	47.35	#		-54.75	6.84	-47.91
6	5725.4 AV	47.38	#		-54.72	6.84	-47.88

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



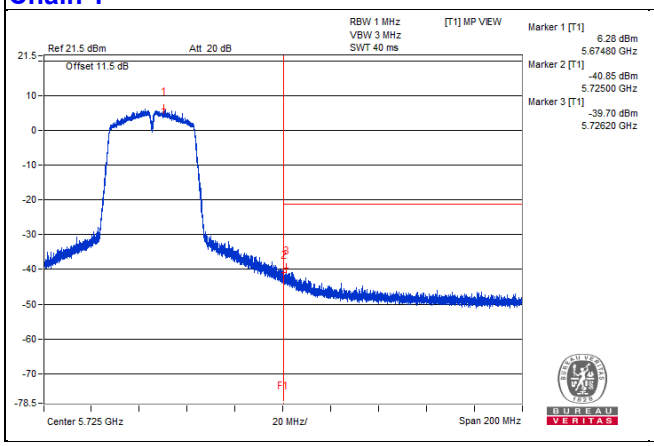
Chain 1

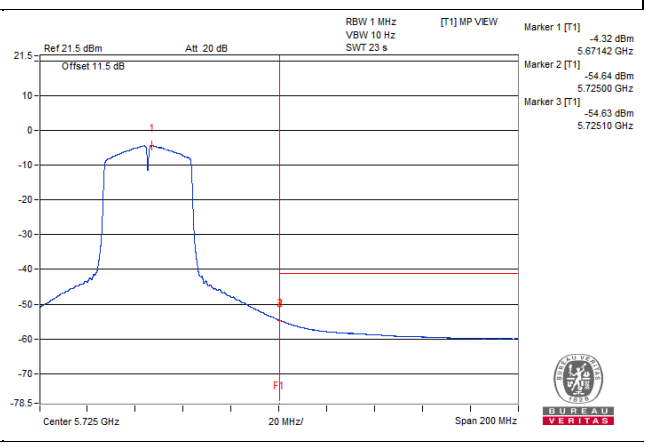
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5674.8 PK	107.34	*		6.28	5.8	12.08
2	5725 PK	60.21	68.2	-7.99	-40.85	5.8	-35.05
3	5726.2 PK	61.36	68.2	-6.84	-39.7	5.8	-33.9
4	5671.42 AV	96.74	*		-4.32	5.8	1.48
5	5725 AV	46.42	#		-54.64	5.8	-48.84
6	5725.1 AV	46.43	#		-54.63	5.8	-48.83

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT40) - Channel 142

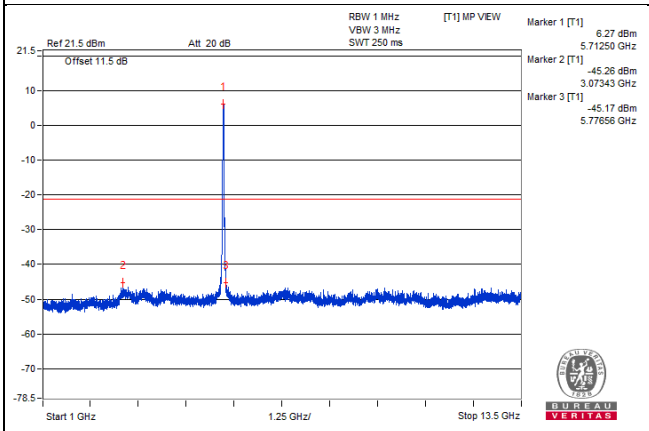
Conducted spurious emission table

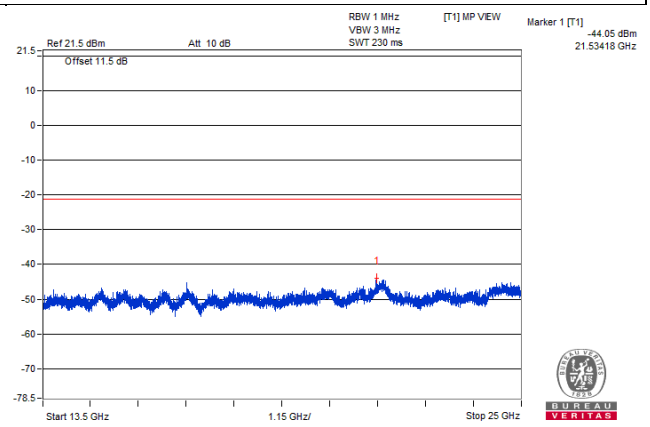
Chain 0

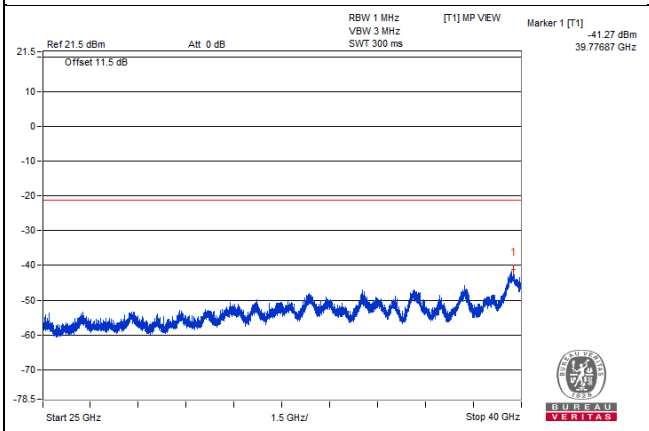
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5712.5 PK	108.37	*		6.27	6.84	13.11
2	3073.43 PK	56.84	68.2	-11.36	-45.26	6.84	-38.42
3	5776.56 PK	56.93	68.2	-11.27	-45.17	6.84	-38.33
4	21534.18 PK	58.05	68.2	-10.15	-44.05	6.84	-37.21
5	39776.87 PK	60.83	74	-13.17	-41.27	6.84	-34.43
6	5707.81 AV	99.92	*		-2.18	6.84	4.66
7	3121.87 AV	33.96	#		-68.14	6.84	-61.3
8	5775 AV	44.29	#		-57.81	6.84	-50.97
9	21660.68 AV	46.19	#		-55.91	6.84	-49.07
10	39718.75 AV	48.64	54	-5.36	-53.46	6.84	-46.62

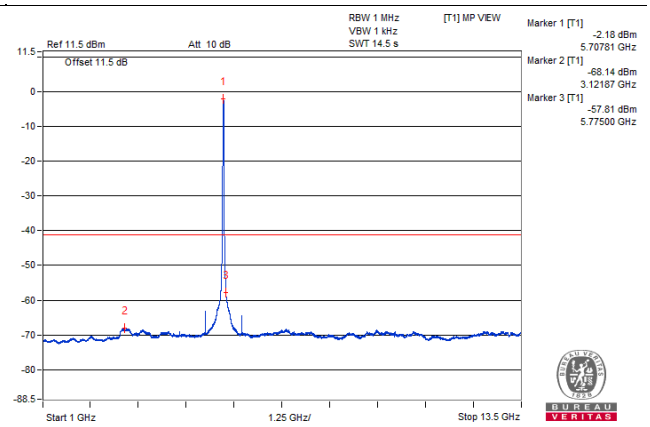
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

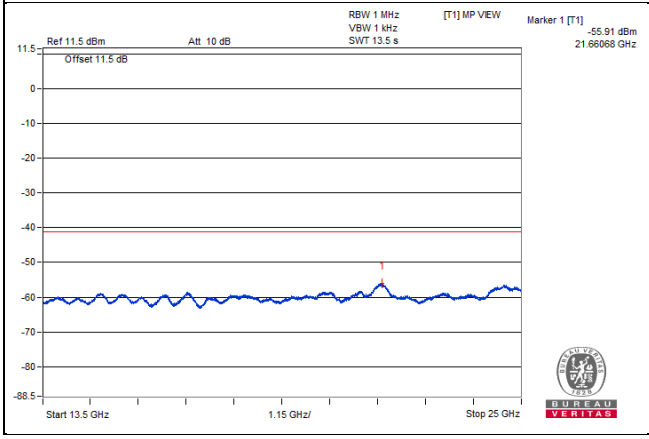
Chain 0

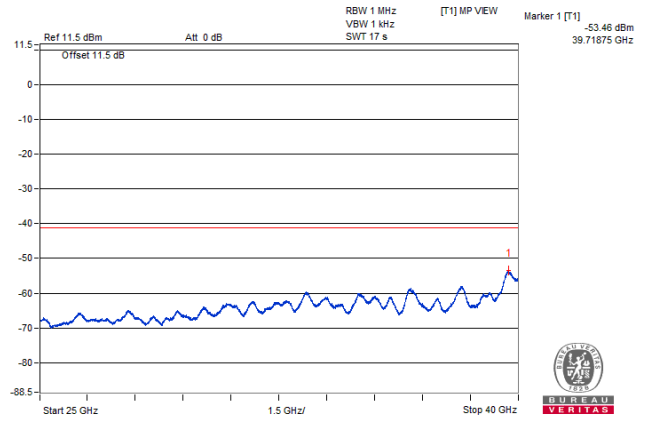

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.27 dBm
5.71250 GHz
Marker 2 [T1]
-45.26 dBm
3.07343 GHz
Marker 3 [T1]
-45.17 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.05 dBm
21.53418 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.27 dBm
39.77687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-2.18 dBm
5.70781 GHz
Marker 2 [T1]
-68.14 dBm
3.12187 GHz
Marker 3 [T1]
-57.81 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.91 dBm
21.66068 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

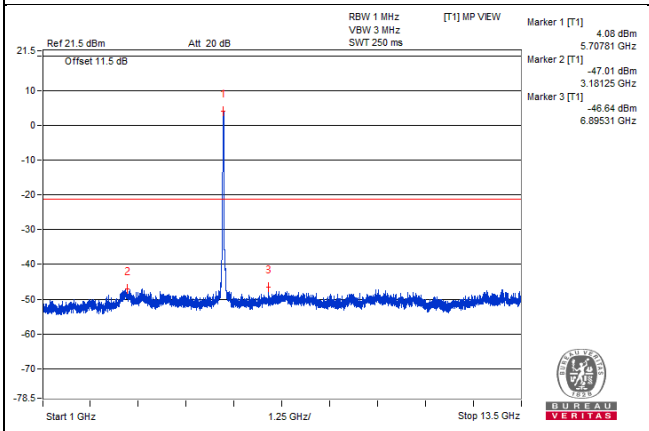

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.46 dBm
39.71875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

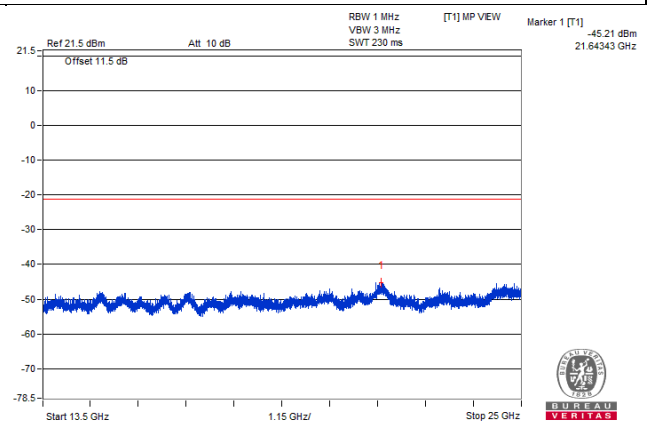
Chain 1

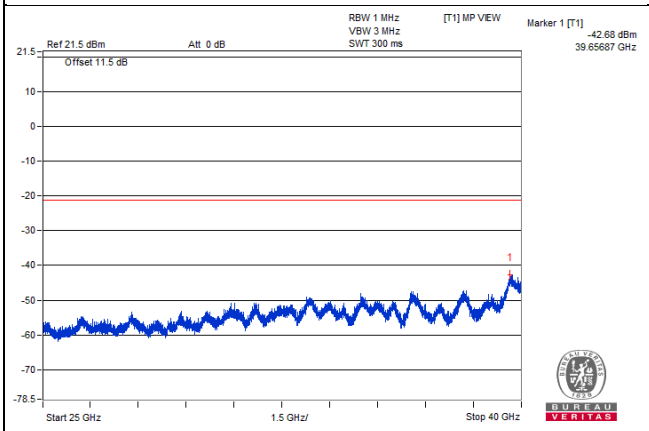
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5707.81 PK	107.61	*		4.08	8.27	12.35
2	3181.25 PK	56.52	68.2	-11.68	-47.01	8.27	-38.74
3	6895.31 PK	56.89	68.2	-11.31	-46.64	8.27	-38.37
4	21643.43 PK	58.32	68.2	-9.88	-45.21	8.27	-36.94
5	39656.87 PK	60.85	74	-13.15	-42.68	8.27	-34.41
6	5707.81 AV	99.38	*		-4.15	8.27	4.12
7	4567.18 AV	38.7	54	-15.3	-64.83	8.27	-56.56
8	5775 AV	44.97	#		-58.56	8.27	-50.29
9	21630.5 AV	46.81	#		-56.72	8.27	-48.45
10	39698.12 AV	48.96	54	-5.04	-54.57	8.27	-46.3

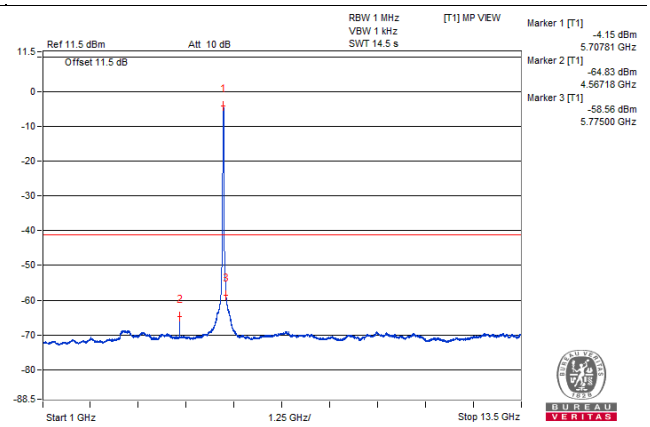
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

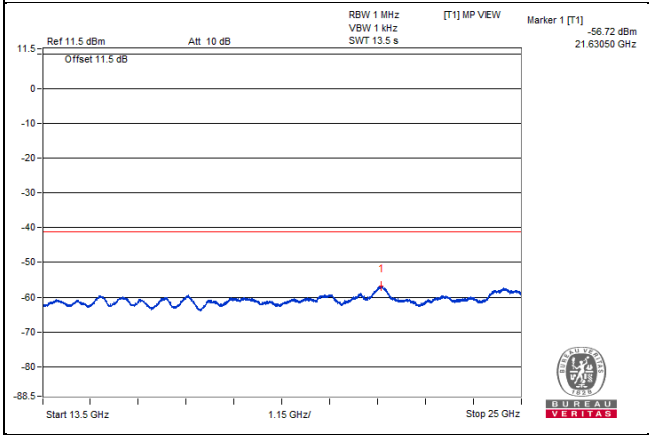
Chain 1

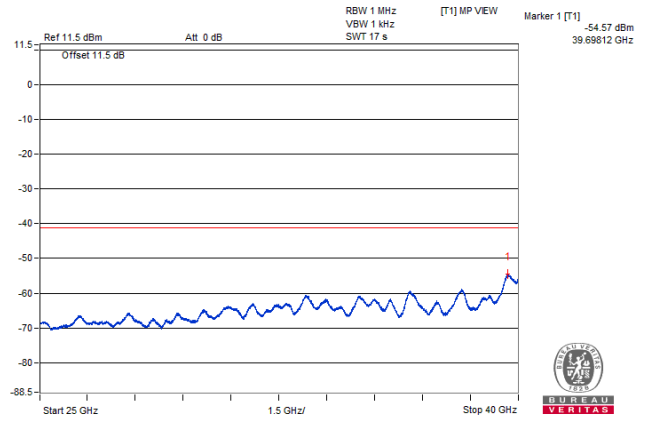

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.08 dBm
5.70781 GHz
Marker 2 [T1]
-47.01 dBm
3.18125 GHz
Marker 3 [T1]
-46.64 dBm
6.89531 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.21 dBm
21.64343 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.68 dBm
39.65687 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.15 dBm
5.70781 GHz
Marker 2 [T1]
-64.83 dBm
4.56718 GHz
Marker 3 [T1]
-58.56 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.72 dBm
21.63050 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.57 dBm
39.69812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

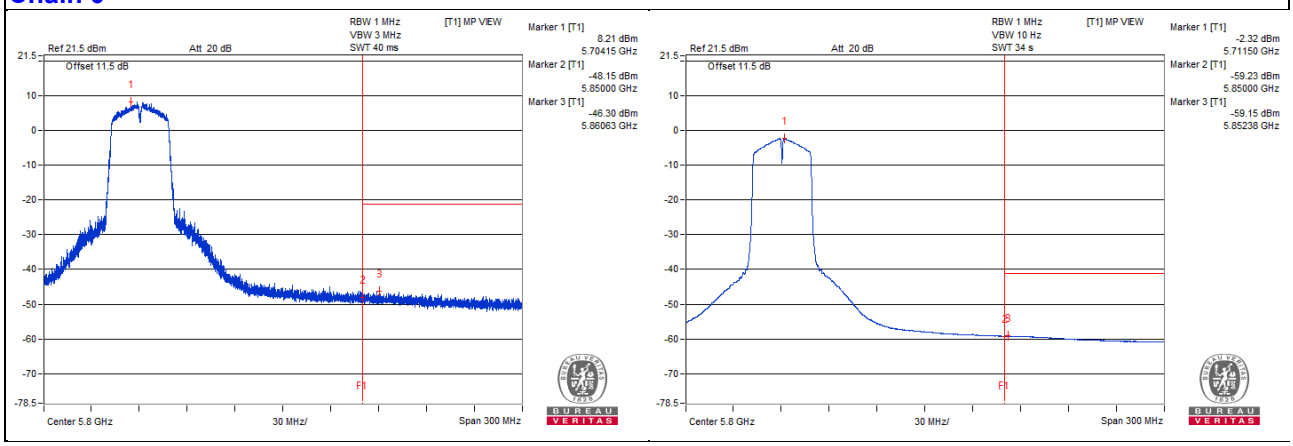
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5704.15 PK	110.31	*		8.21	6.84	15.05
2	5850 PK	53.95	68.2	-14.25	-48.15	6.84	-41.31
3	5860.63 PK	55.8	68.2	-12.4	-46.3	6.84	-39.46
4	5711.5 AV	99.78	*		-2.32	6.84	4.52
5	5850 AV	42.87	#		-59.23	6.84	-52.39
6	5852.38 AV	42.95	#		-59.15	6.84	-52.31

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

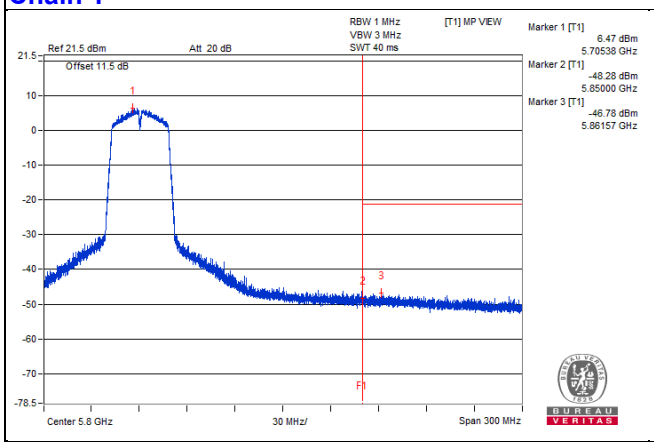


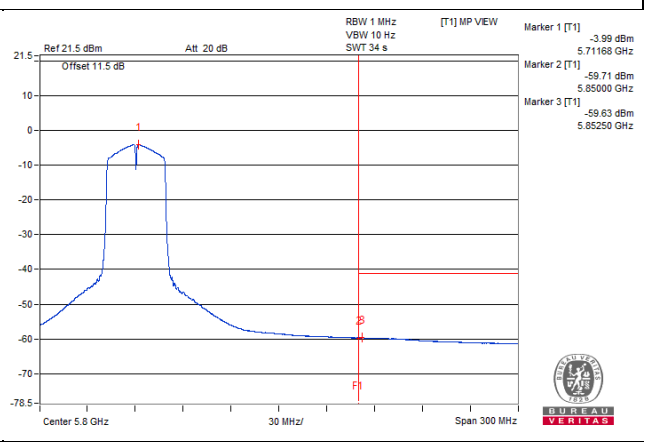
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5705.38 PK	107.53	*		6.47	5.8	12.27
2	5850 PK	52.78	68.2	-15.42	-48.28	5.8	-42.48
3	5861.57 PK	54.28	68.2	-13.92	-46.78	5.8	-40.98
4	5711.68 AV	97.07	*		-3.99	5.8	1.81
5	5850 AV	41.35	#		-59.71	5.8	-53.91
6	5852.5 AV	41.43	#		-59.63	5.8	-53.83

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





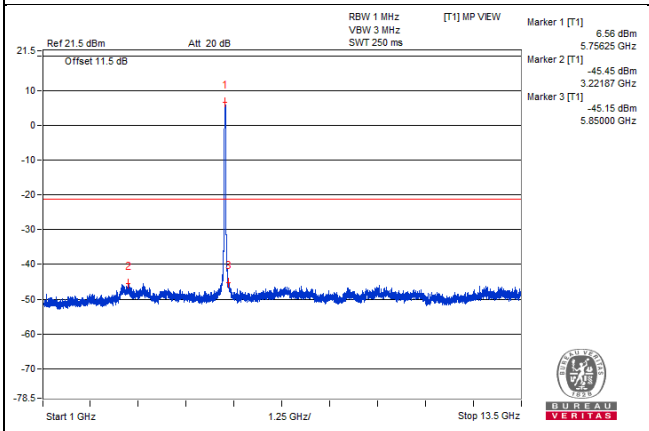
802.11ac (VHT40) – Channel 151
Conducted spurious emission table

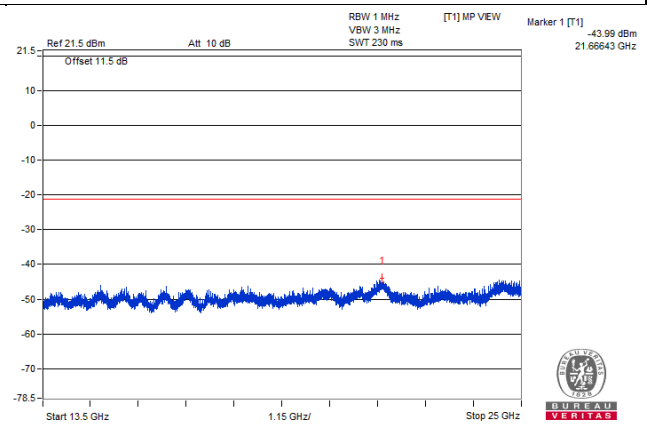
Chain 0

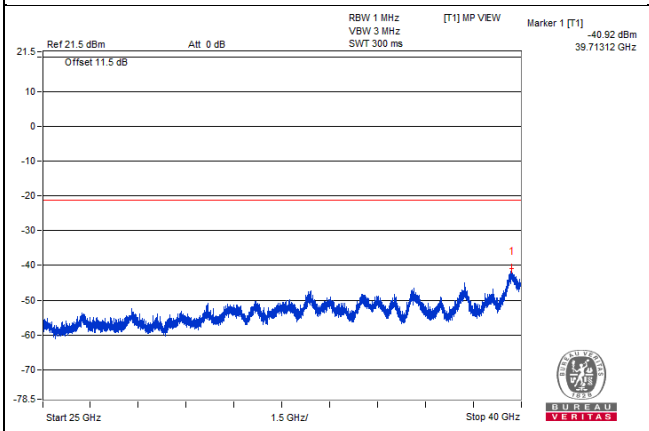
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5756.25 PK	108.66	*		6.56	6.84	13.4
2	3221.87 PK	56.65	68.2	-11.55	-45.45	6.84	-38.61
3	5850 PK	56.95	68.2	-11.25	-45.15	6.84	-38.31
4	21666.43 PK	58.11	68.2	-10.09	-43.99	6.84	-37.15
5	39713.12 PK	61.18	74	-12.82	-40.92	6.84	-34.08
6	5753.12 AV	99.24	*		-2.86	6.84	3.98
7	3084.37 AV	34.21	#		-67.89	6.84	-61.05
8	5850 AV	42.66	#		-59.44	6.84	-52.6
9	21652.06 AV	46.2	#		-55.9	6.84	-49.06
10	39700 AV	48.74	54	-5.26	-53.36	6.84	-46.52

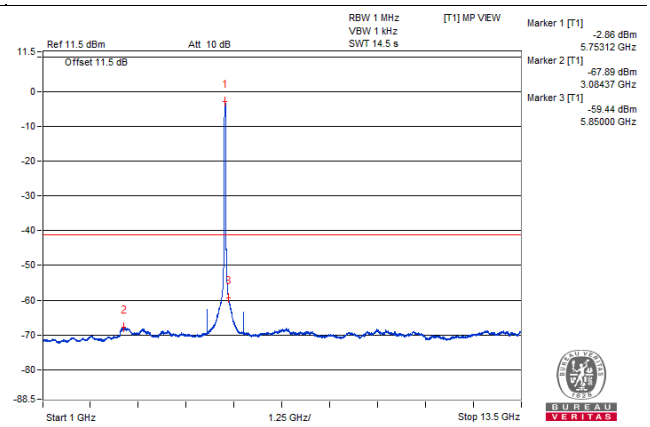
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

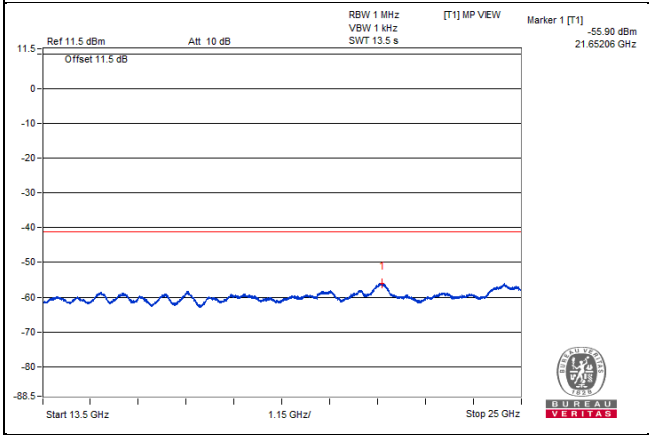
Chain 0

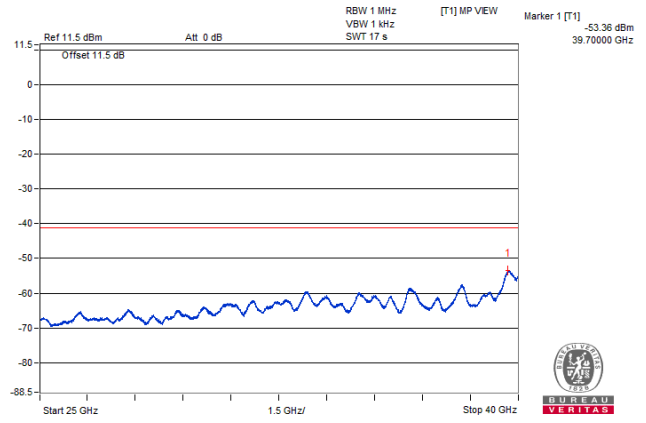

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.56 dBm
5.75625 GHz
Marker 2 [T1]
-45.45 dBm
3.22187 GHz
Marker 3 [T1]
-45.15 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.99 dBm
21.66643 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.92 dBm
39.71312 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-2.86 dBm
5.75312 GHz
Marker 2 [T1]
-67.89 dBm
3.08437 GHz
Marker 3 [T1]
-59.44 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.90 dBm
21.65206 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

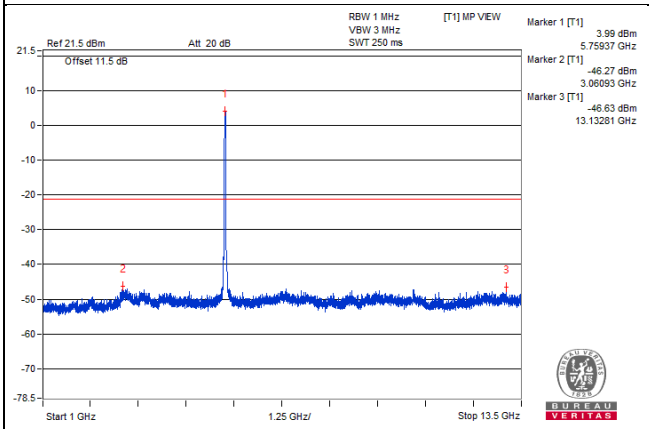

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.36 dBm
39.70000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

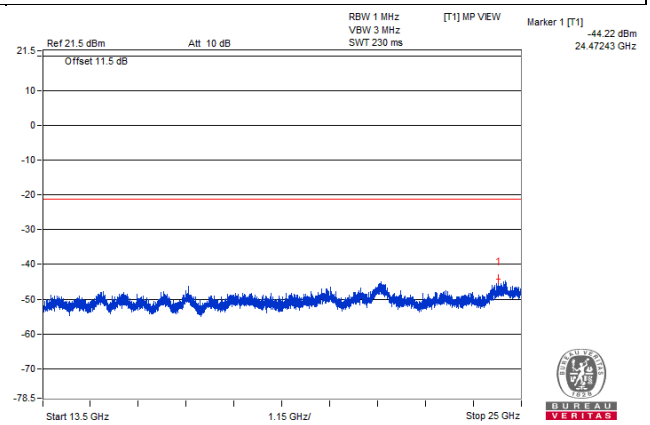
Chain 1

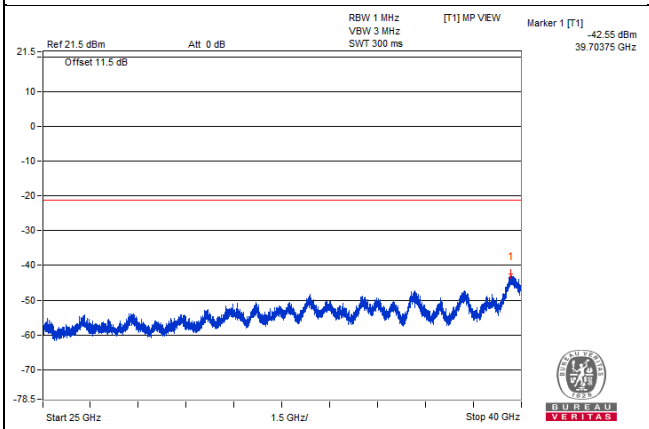
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5759.37 PK	107.52	*		3.99	8.27	12.26
2	3060.93 PK	57.26	68.2	-10.94	-46.27	8.27	-38
3	13132.81 PK	56.9	68.2	-11.3	-46.63	8.27	-38.36
4	24472.43 PK	59.31	68.2	-8.89	-44.22	8.27	-35.95
5	39703.75 PK	60.98	74	-13.02	-42.55	8.27	-34.28
6	5756.25 AV	98.94	*		-4.59	8.27	3.68
7	4603.12 AV	38.94	54	-15.06	-64.59	8.27	-56.32
8	5850 AV	42.38	#		-61.15	8.27	-52.88
9	21634.81 AV	46.69	#		-56.84	8.27	-48.57
10	39700 AV	49.08	54	-4.92	-54.45	8.27	-46.18

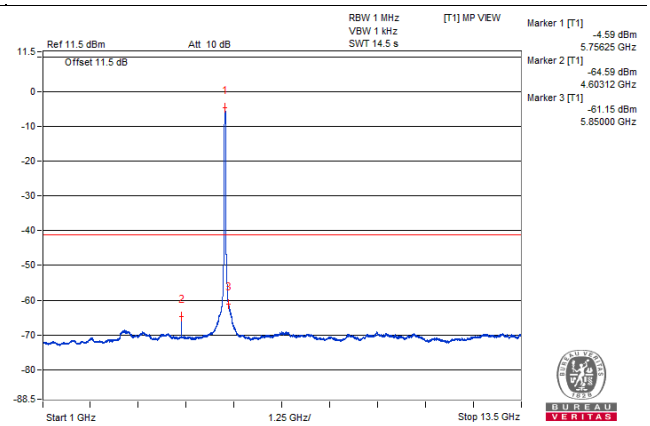
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

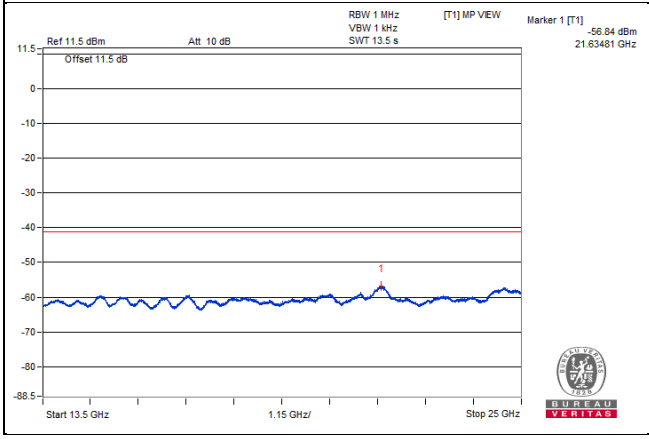
Chain 1

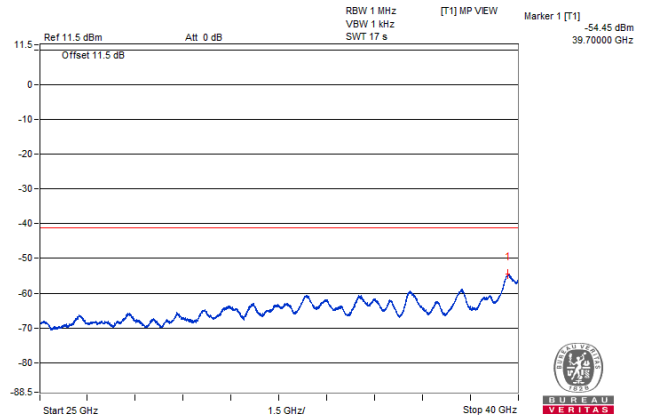

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.99 dBm
5.75937 GHz
Marker 2 [T1]
-46.27 dBm
3.06093 GHz
Marker 3 [T1]
-46.63 dBm
13.13281 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.22 dBm
24.47243 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.55 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

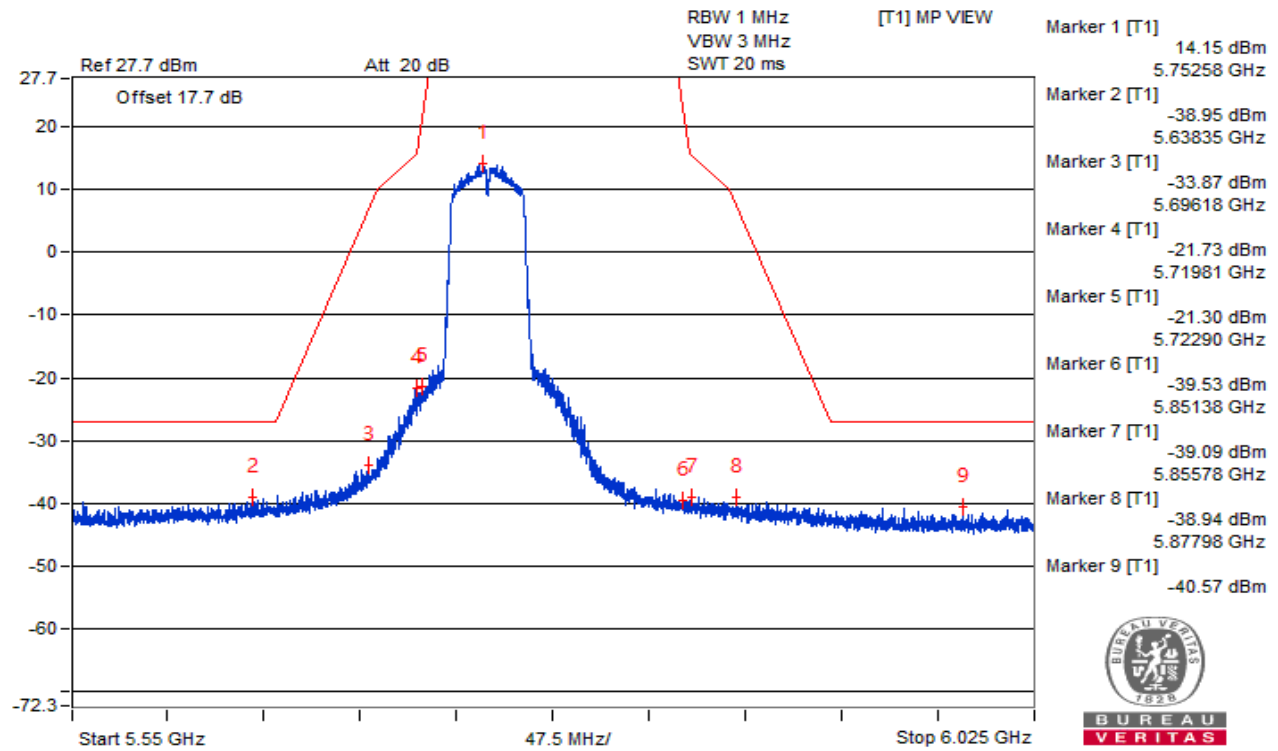

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.59 dBm
5.75625 GHz
Marker 2 [T1]
-64.59 dBm
4.60312 GHz
Marker 3 [T1]
-61.15 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.84 dBm
21.63481 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

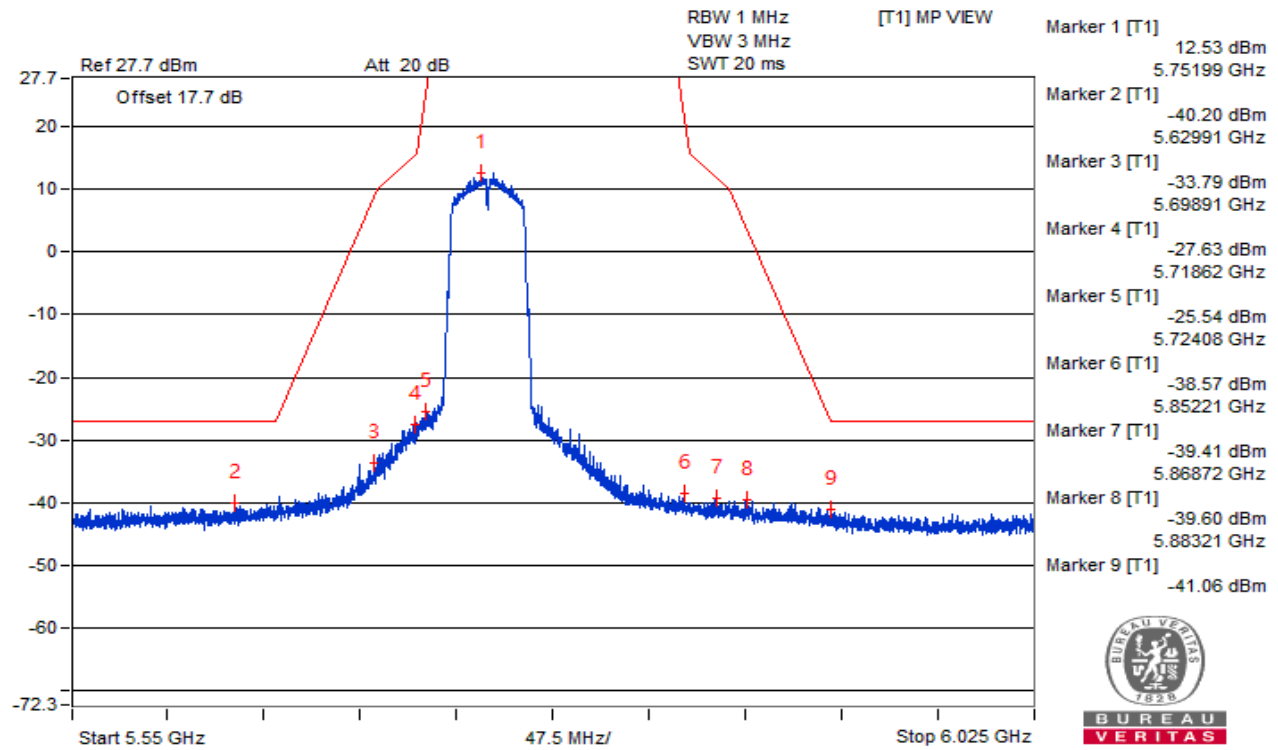

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.45 dBm
39.70000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

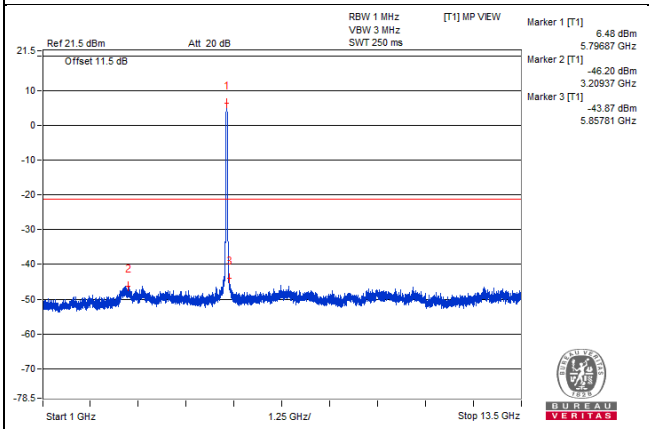
802.11ac (VHT40) – Channel 159
Conducted spurious emission table

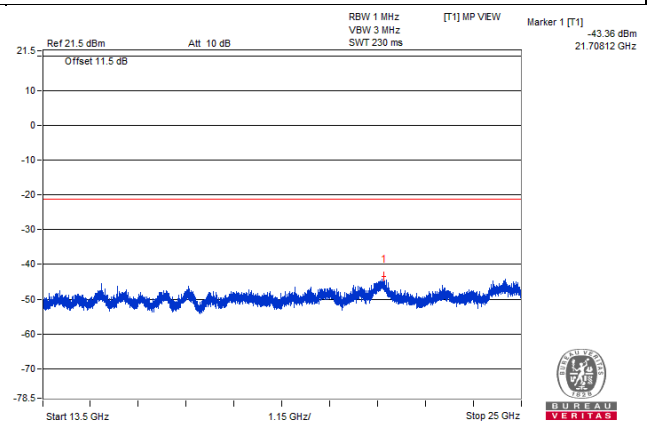
Chain 0

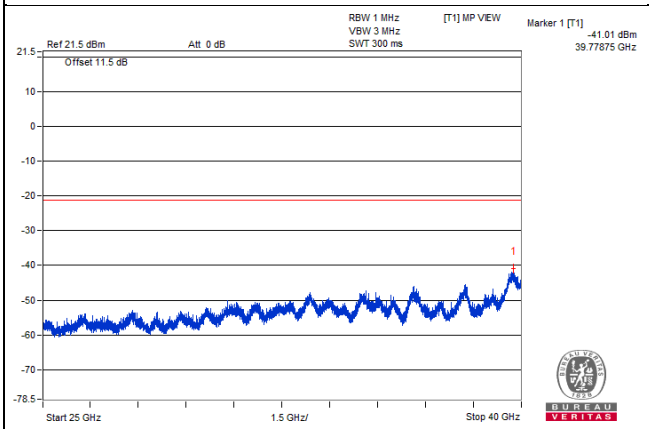
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5796.87 PK	108.58	*		6.48	6.84	13.32
2	3209.37 PK	55.9	68.2	-12.3	-46.2	6.84	-39.36
3	5857.81 PK	58.23	68.2	-9.97	-43.87	6.84	-37.03
4	21708.12 PK	58.74	68.2	-9.46	-43.36	6.84	-36.52
5	39778.75 PK	61.09	74	-12.91	-41.01	6.84	-34.17
6	5795.31 AV	99.64	*		-2.46	6.84	4.38
7	3067.18 AV	34.22	#		-67.88	6.84	-61.04
8	5850 AV	46.95	#		-55.15	6.84	-48.31
9	21634.81 AV	46.16	#		-55.94	6.84	-49.1
10	39731.87 AV	48.76	54	-5.24	-53.34	6.84	-46.5

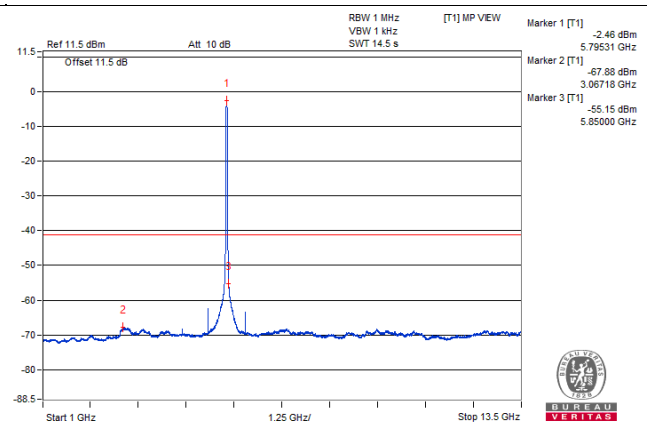
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

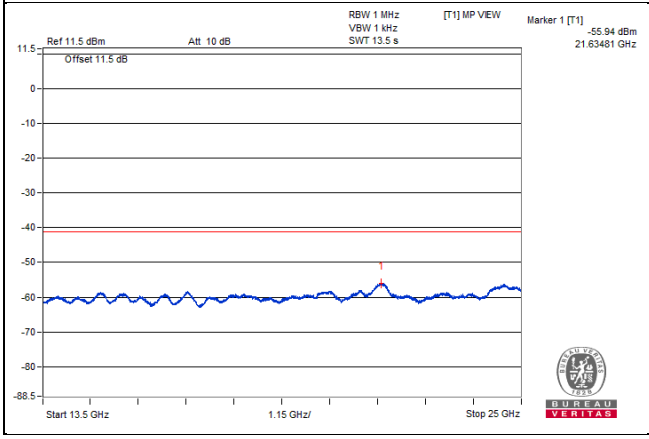
Chain 0

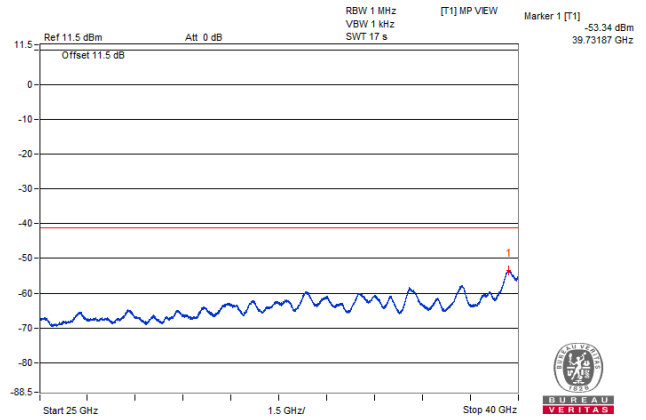

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
6.48 dBm
5.79687 GHz
Marker 2 [T1]
-46.20 dBm
3.20937 GHz
Marker 3 [T1]
-43.87 dBm
5.85781 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.36 dBm
21.70812 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.01 dBm
39.77875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-2.46 dBm
5.79531 GHz
Marker 2 [T1]
-67.88 dBm
3.06718 GHz
Marker 3 [T1]
-55.15 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.94 dBm
21.63481 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.34 dBm
39.73187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

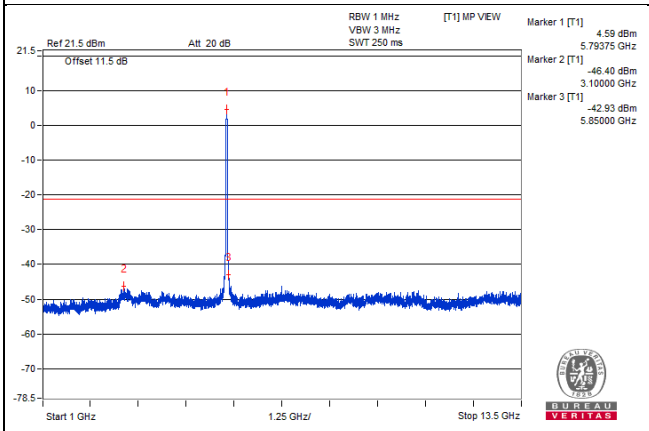
Chain 1

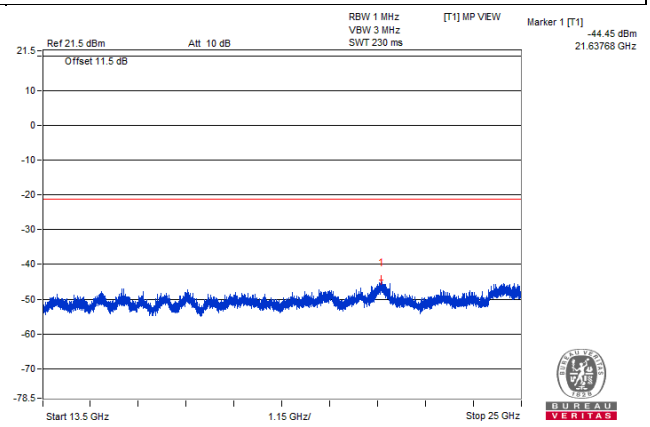
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5793.75 PK	108.12	*		4.59	8.27	12.86
2	3100 PK	57.13	68.2	-11.07	-46.4	8.27	-38.13
3	5850 PK	60.6	68.2	-7.6	-42.93	8.27	-34.66
4	21637.68 PK	59.08	68.2	-9.12	-44.45	8.27	-36.18
5	39780.62 PK	61.2	74	-12.8	-42.33	8.27	-34.06
6	5796.87 AV	99.17	*		-4.36	8.27	3.91
7	4635.93 AV	41.34	54	-12.66	-62.19	8.27	-53.92
8	5850 AV	48.8	#		-54.73	8.27	-46.46
9	21650.62 AV	46.74	#		-56.79	8.27	-48.52
10	39700 AV	49.2	54	-4.8	-54.33	8.27	-46.06

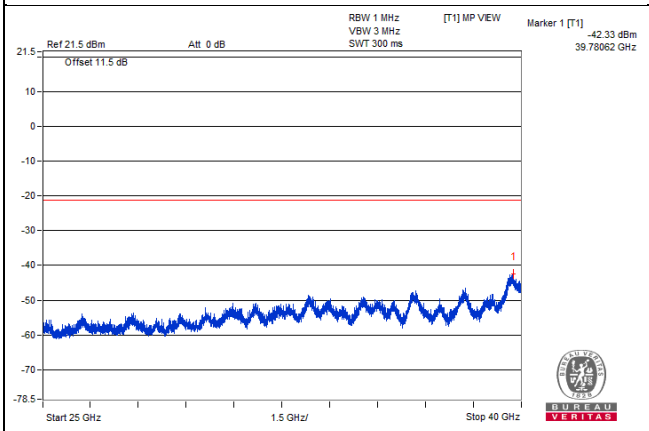
Note :

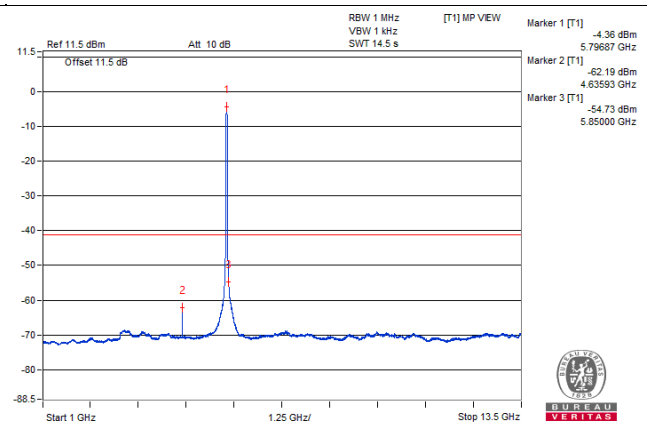
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

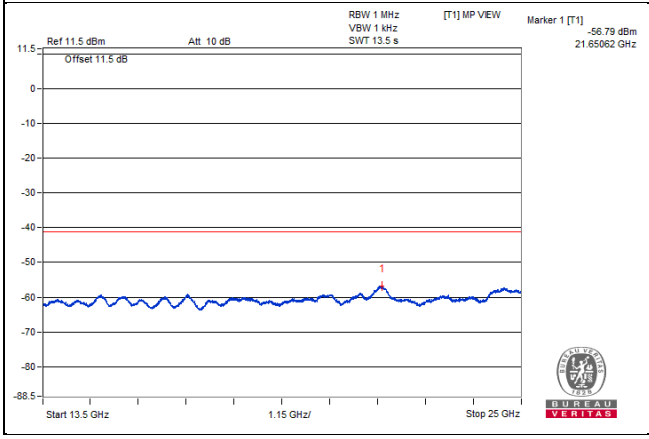
Chain 1

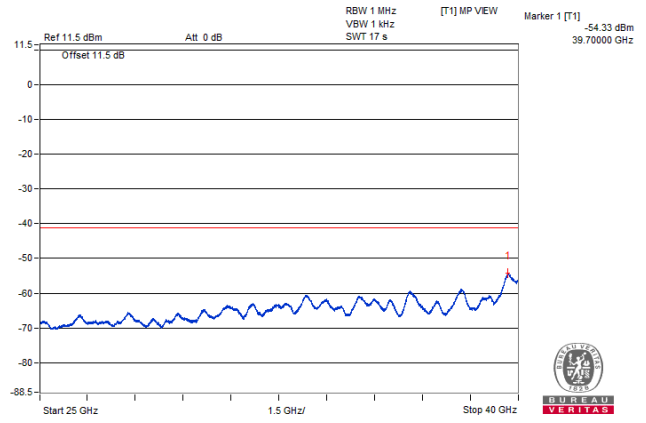

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
4.59 dBm
5.79375 GHz
Marker 2 [T1]
-46.40 dBm
3.10000 GHz
Marker 3 [T1]
-42.93 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.45 dBm
21.63768 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.33 dBm
39.78062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

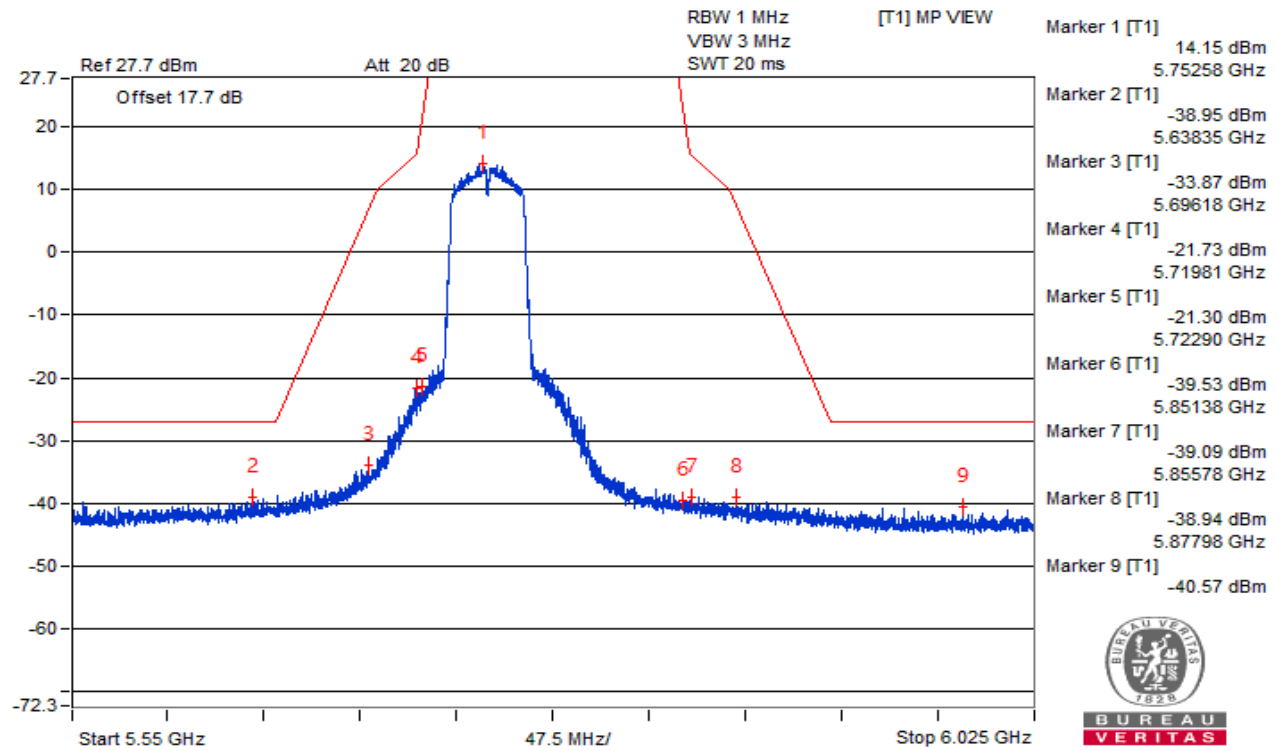

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-4.36 dBm
5.79687 GHz
Marker 2 [T1]
-62.19 dBm
4.63593 GHz
Marker 3 [T1]
-54.73 dBm
5.85000 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.79 dBm
21.65062 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

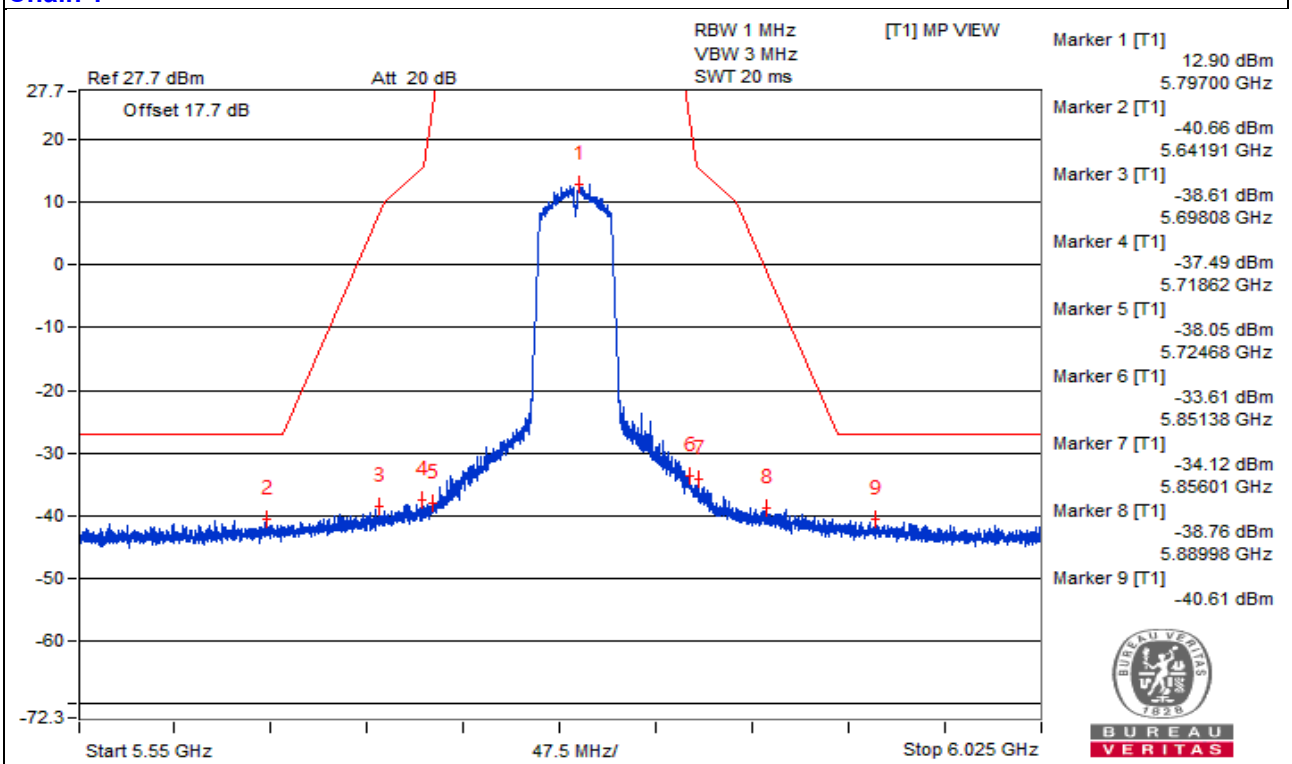

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.33 dBm
39.70000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

802.11ac (VHT80) - Channel 42

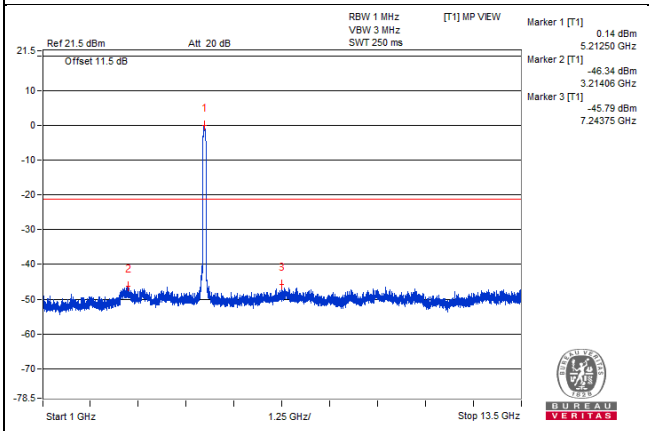
Conducted spurious emission table

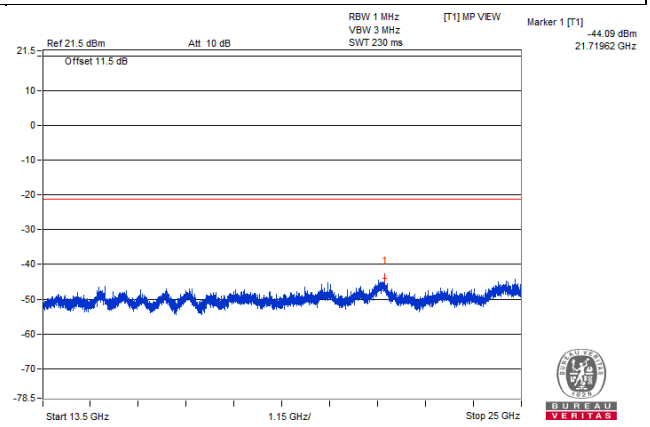
Chain 0

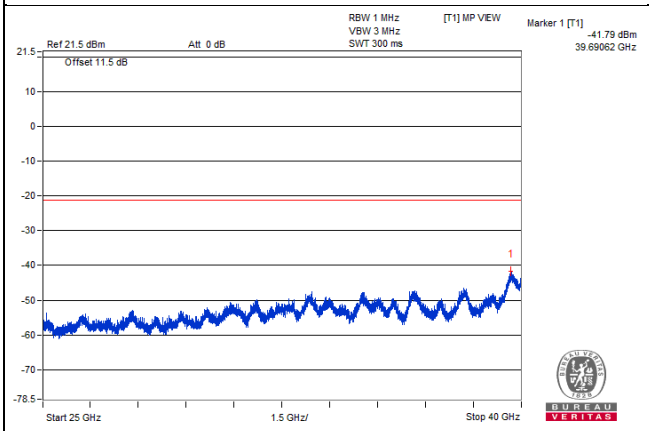
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5212.5 PK	102.24	*		0.14	6.84	6.98
2	3214.06 PK	55.76	68.2	-12.44	-46.34	6.84	-39.5
3	7243.75 PK	56.31	68.2	-11.89	-45.79	6.84	-38.95
4	21719.62 PK	58.01	68.2	-10.19	-44.09	6.84	-37.25
5	39690.62 PK	60.31	74	-13.69	-41.79	6.84	-34.95
6	5210.93 AV	94.06	*		-8.04	6.84	-1.2
7	5100 AV	40.59	54	-13.41	-61.51	6.84	-54.67
8	7360.93 AV	33.54	54	-20.46	-68.56	6.84	-61.72
9	21623.31 AV	46.03	#		-56.07	6.84	-49.23
10	39690.62 AV	48.51	54	-5.49	-53.59	6.84	-46.75

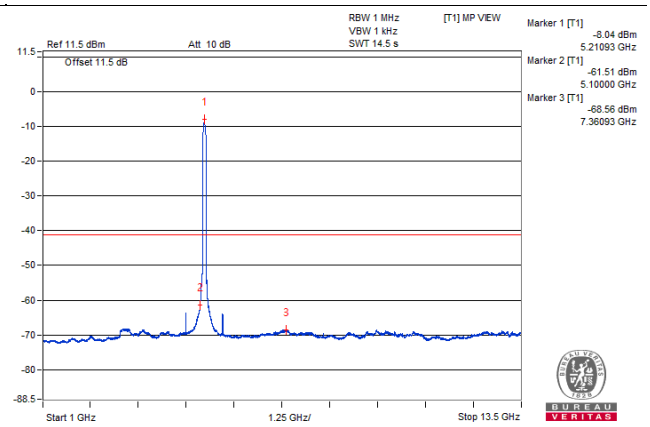
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

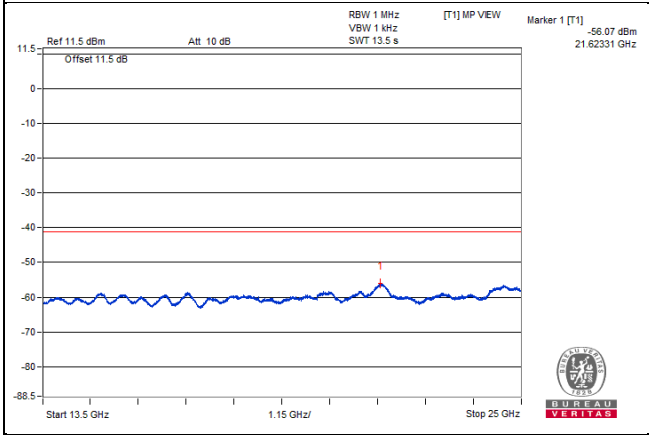
Chain 0

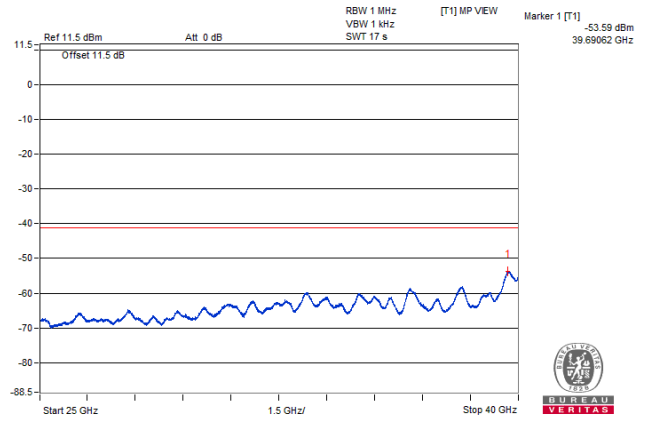

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
0.14 dBm
5.21250 GHz
Marker 2 [T1]
-46.34 dBm
3.21406 GHz
Marker 3 [T1]
-45.79 dBm
7.24375 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.09 dBm
21.71962 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.79 dBm
39.69062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-8.04 dBm
5.21093 GHz
Marker 2 [T1]
-61.51 dBm
5.10000 GHz
Marker 3 [T1]
-68.56 dBm
7.36093 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.07 dBm
21.62331 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

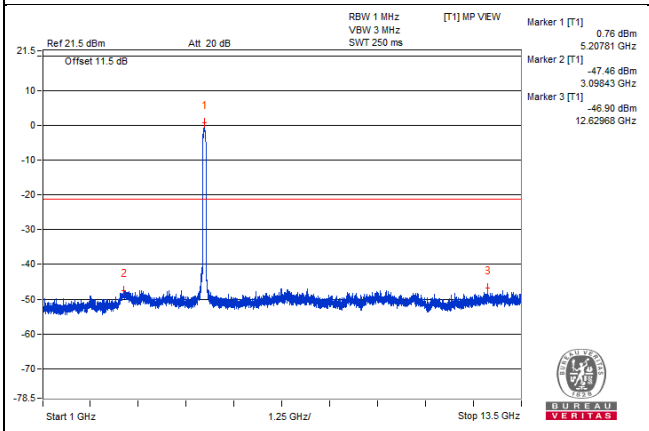

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.59 dBm
39.69062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

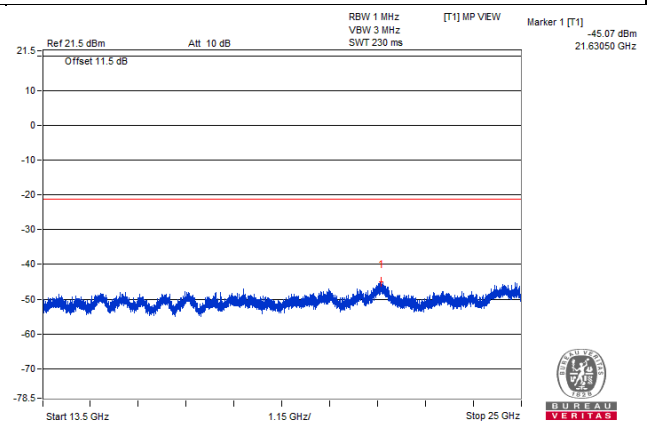
Chain 1

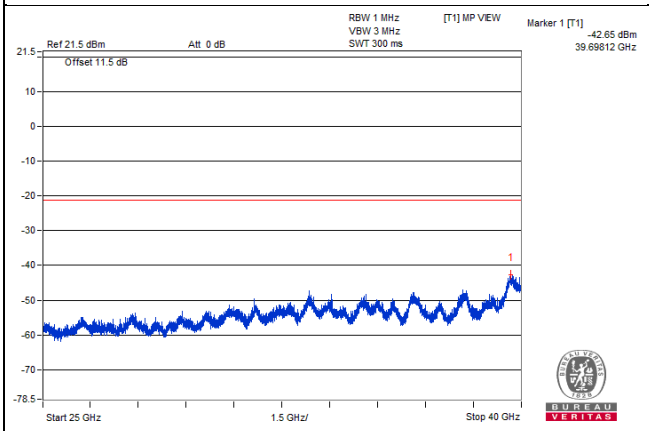
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5207.81 PK	104.29	*		0.76	8.27	9.03
2	3098.43 PK	56.07	68.2	-12.13	-47.46	8.27	-39.19
3	12629.68 PK	56.63	74	-17.37	-46.9	8.27	-38.63
4	21630.5 PK	58.46	68.2	-9.74	-45.07	8.27	-36.8
5	39698.12 PK	60.88	74	-13.12	-42.65	8.27	-34.38
6	5212.5 AV	94.98	*		-8.55	8.27	-0.28
7	5098.43 AV	42.95	54	-11.05	-60.58	8.27	-52.31
8	7373.43 AV	34.51	54	-19.49	-69.02	8.27	-60.75
9	21639.12 AV	46.91	#		-56.62	8.27	-48.35
10	39701.87 AV	49.21	54	-4.79	-54.32	8.27	-46.05

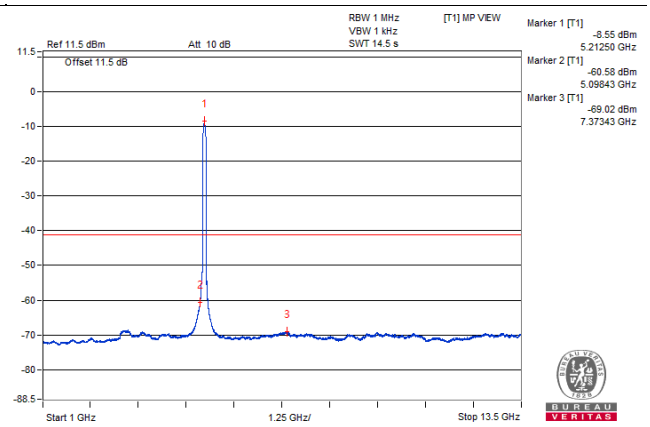
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

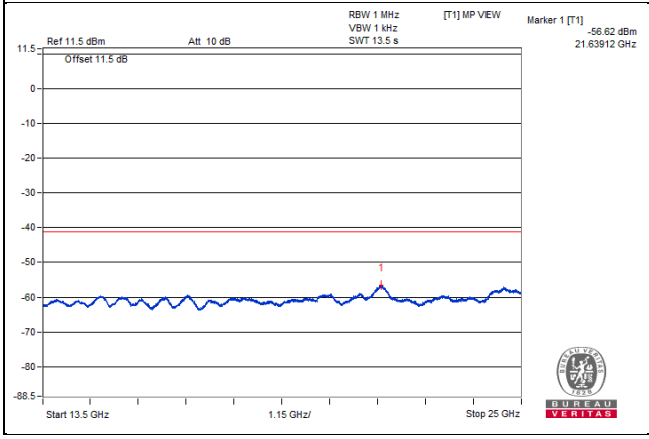
Chain 1

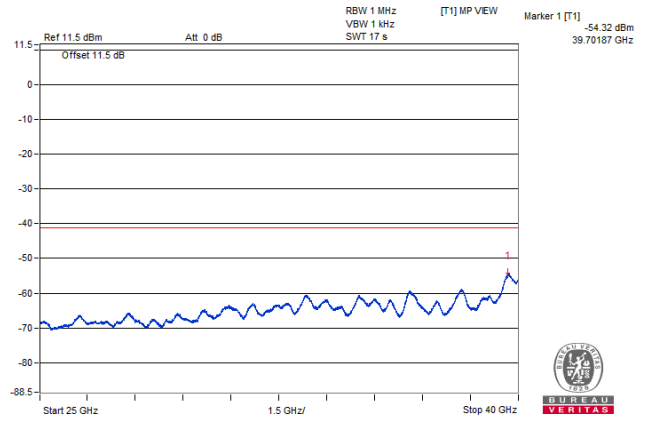

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
0.76 dBm
5.20781 GHz
Marker 2 [T1]
-47.46 dBm
3.09843 GHz
Marker 3 [T1]
-46.90 dBm
12.62968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.07 dBm
21.63050 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.65 dBm
39.69812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-8.55 dBm
5.21250 GHz
Marker 2 [T1]
-60.58 dBm
5.09843 GHz
Marker 3 [T1]
-69.02 dBm
7.37343 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.62 dBm
21.63912 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.32 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

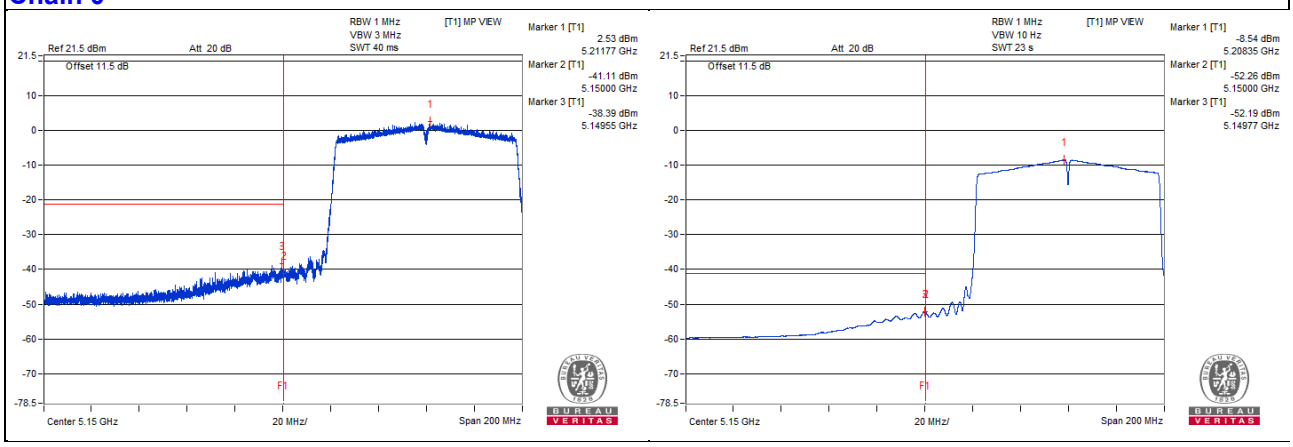
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5211.77 PK	103.86	*		2.53	6.07	8.6
2	5150 PK	60.22	74	-13.78	-41.11	6.07	-35.04
3	5149.55 PK	62.94	74	-11.06	-38.39	6.07	-32.32
4	5208.35 AV	92.79	*		-8.54	6.07	-2.47
5	5150 AV	49.07	54	-4.93	-52.26	6.07	-46.19
6	5149.77 AV	49.14	54	-4.86	-52.19	6.07	-46.12

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



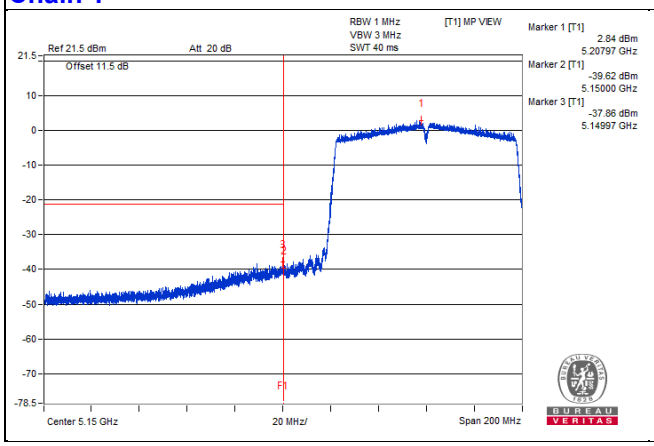
Chain 1

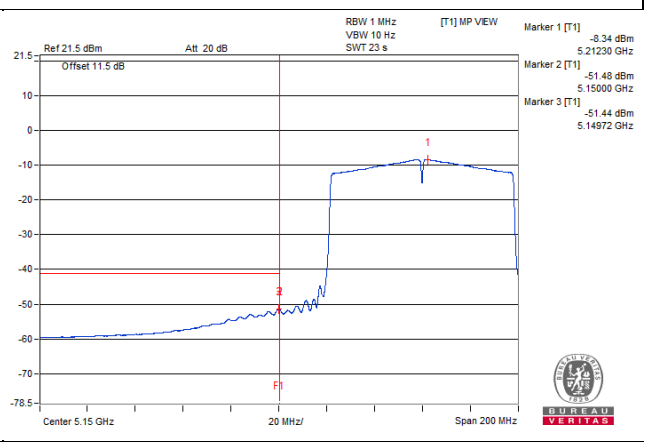
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5207.97 PK	104.89	*		2.84	6.79	9.63
2	5150 PK	62.43	74	-11.57	-39.62	6.79	-32.83
3	5149.97 PK	64.19	74	-9.81	-37.86	6.79	-31.07
4	5212.3 AV	93.71	*		-8.34	6.79	-1.55
5	5150 AV	50.57	54	-3.43	-51.48	6.79	-44.69
6	5149.72 AV	50.61	54	-3.39	-51.44	6.79	-44.65

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT80) - Channel 58

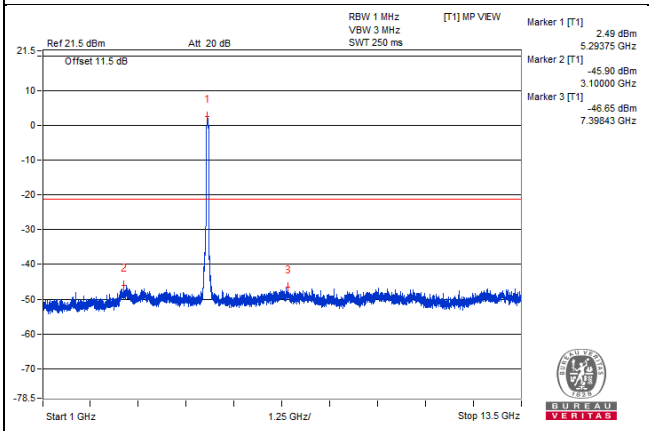
Conducted spurious emission table

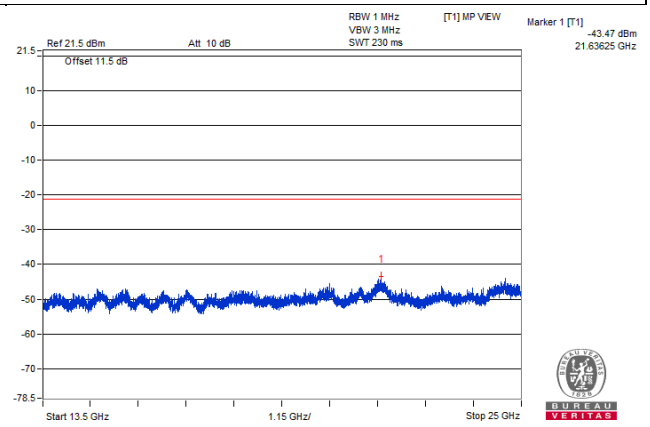
Chain 0

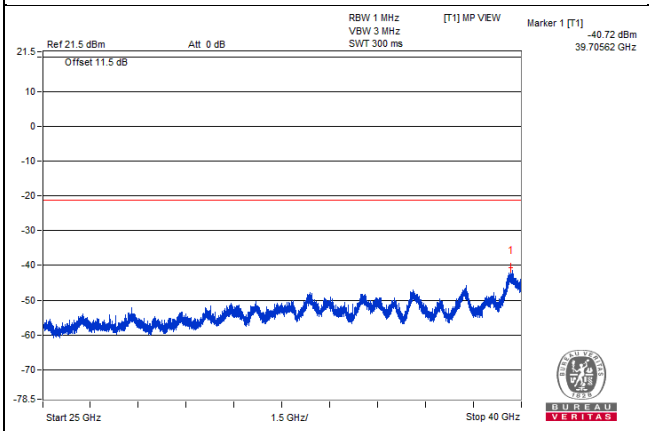
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5293.75 PK	104.59	*		2.49	6.84	9.33
2	3100 PK	56.2	68.2	-12	-45.9	6.84	-39.06
3	7398.43 PK	55.45	74	-18.55	-46.65	6.84	-39.81
4	21636.25 PK	58.63	68.2	-9.57	-43.47	6.84	-36.63
5	39705.62 PK	61.38	74	-12.62	-40.72	6.84	-33.88
6	5292.18 AV	95.62	*		-6.48	6.84	0.36
7	4809.37 AV	38.32	54	-15.68	-63.78	6.84	-56.94
8	7365.62 AV	33.64	54	-20.36	-68.46	6.84	-61.62
9	21652.06 AV	45.82	#		-56.28	6.84	-49.44
10	39703.75 AV	48.34	54	-5.66	-53.76	6.84	-46.92

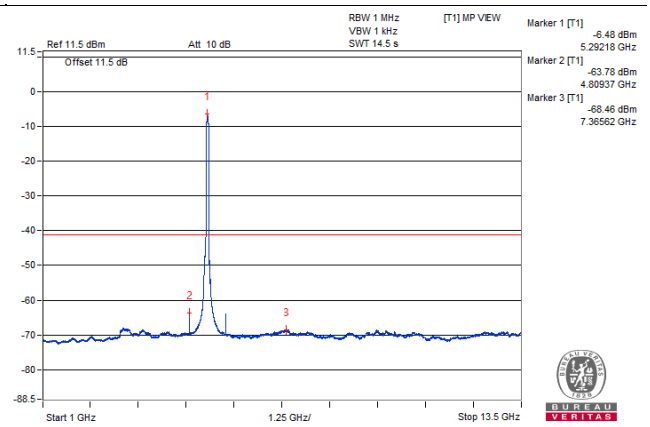
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

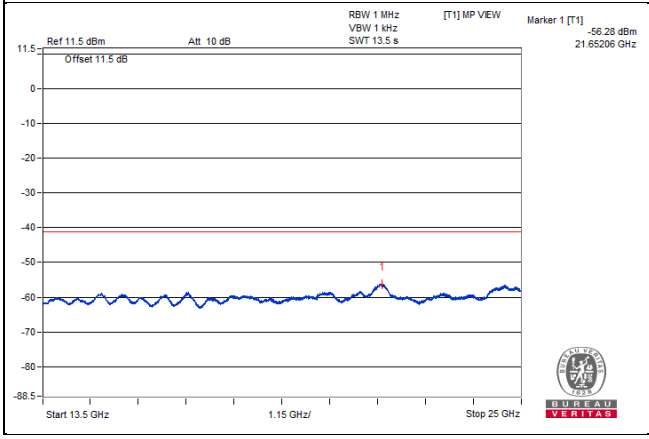
Chain 0

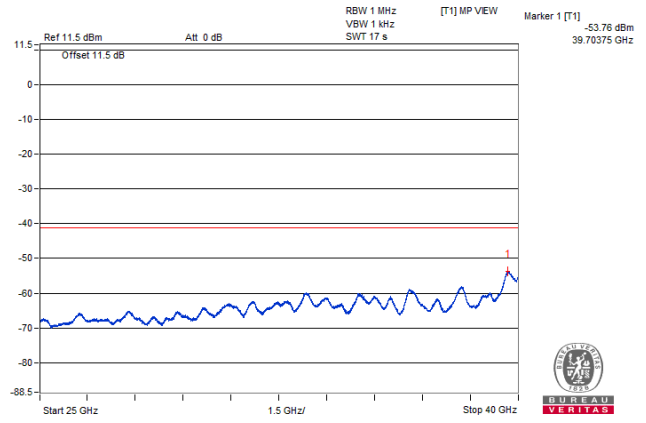

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
2.49 dBm
5.29375 GHz
Marker 2 [T1]
-45.90 dBm
3.10000 GHz
Marker 3 [T1]
-46.65 dBm
7.39843 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.47 dBm
21.63625 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.72 dBm
39.70562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-6.48 dBm
5.29218 GHz
Marker 2 [T1]
-63.78 dBm
4.80937 GHz
Marker 3 [T1]
-68.46 dBm
7.36562 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.28 dBm
21.65206 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

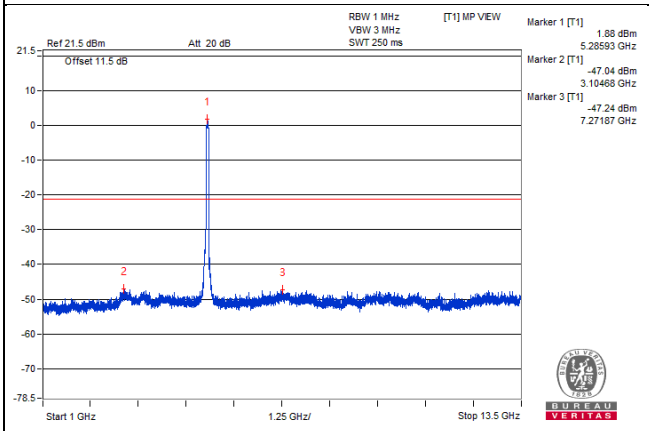

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.76 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

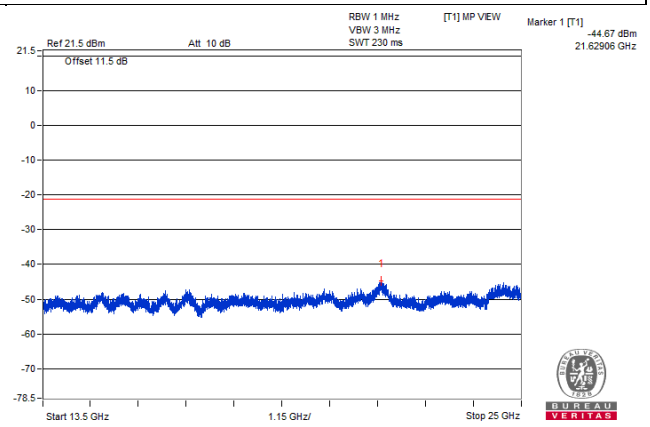
Chain 1

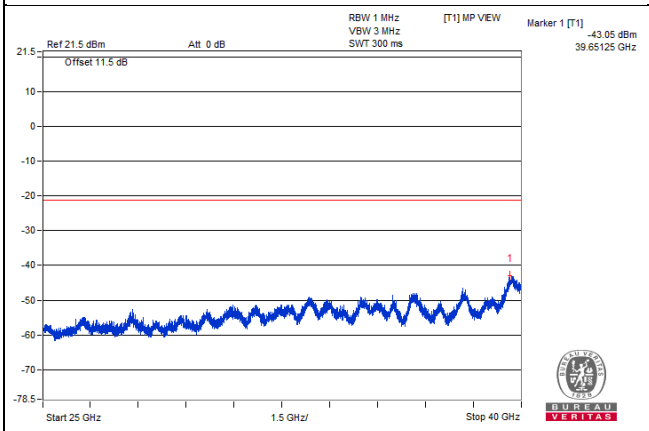
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5285.93 PK	105.41	*		1.88	8.27	10.15
2	3104.68 PK	56.49	68.2	-11.71	-47.04	8.27	-38.77
3	7271.87 PK	56.29	74	-17.71	-47.24	8.27	-38.97
4	21629.06 PK	58.86	68.2	-9.34	-44.67	8.27	-36.4
5	39651.25 PK	60.48	74	-13.52	-43.05	8.27	-34.78
6	5290.62 AV	97.11	*		-6.42	8.27	1.85
7	5098.43 AV	38.81	54	-15.19	-64.72	8.27	-56.45
8	7375 AV	34.51	54	-19.49	-69.02	8.27	-60.75
9	21637.68 AV	46.83	#		-56.7	8.27	-48.43
10	39679.37 AV	49.07	54	-4.93	-54.46	8.27	-46.19

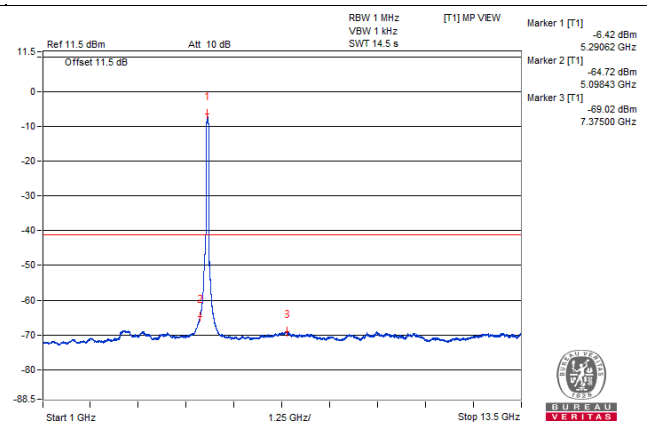
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

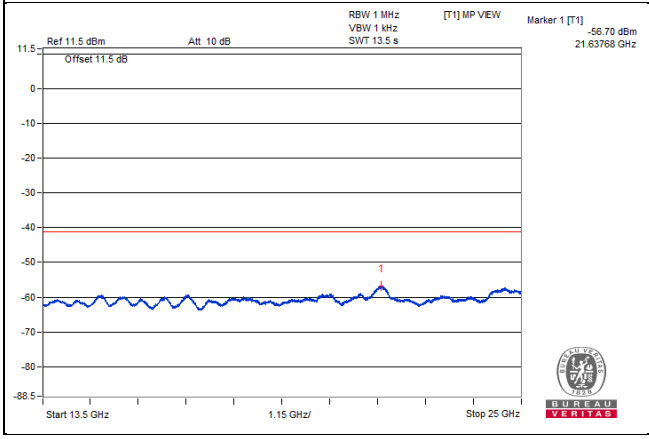
Chain 1

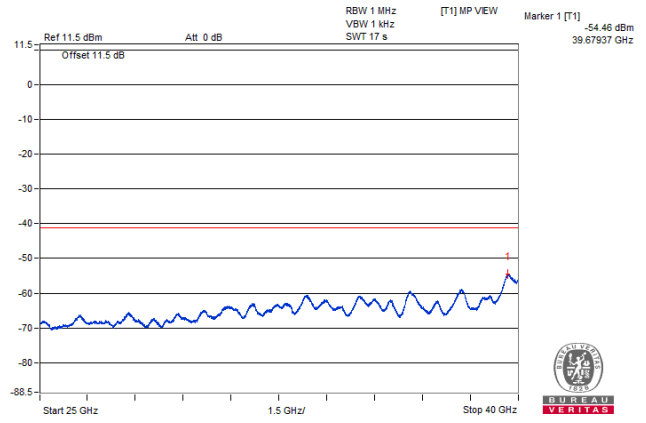

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
1.88 dBm
5.28593 GHz
Marker 2 [T1]
-47.04 dBm
3.10468 GHz
Marker 3 [T1]
-47.24 dBm
7.27187 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.67 dBm
21.62906 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-43.05 dBm
39.65125 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-6.42 dBm
5.29062 GHz
Marker 2 [T1]
-64.72 dBm
5.09843 GHz
Marker 3 [T1]
-69.02 dBm
7.37500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.70 dBm
21.63768 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.46 dBm
39.67937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

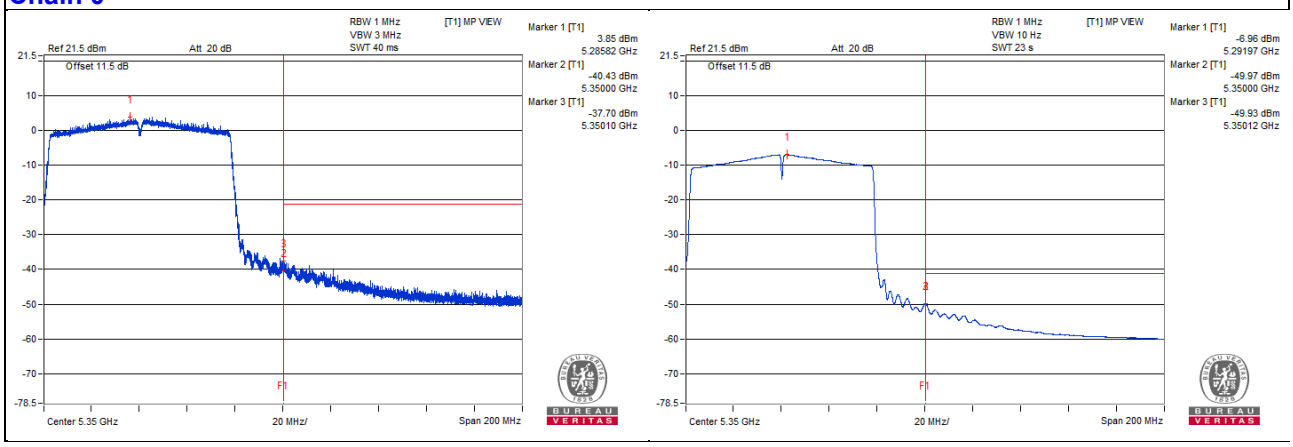
Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5285.82 PK	105.56	*		3.85	6.45	10.3
2	5350 PK	61.28	74	-12.72	-40.43	6.45	-33.98
3	5350.1 PK	64.01	74	-9.99	-37.7	6.45	-31.25
4	5291.97 AV	94.75	*		-6.96	6.45	-0.51
5	5350 AV	51.74	54	-2.26	-49.97	6.45	-43.52
6	5350.12 AV	51.78	54	-2.22	-49.93	6.45	-43.48

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



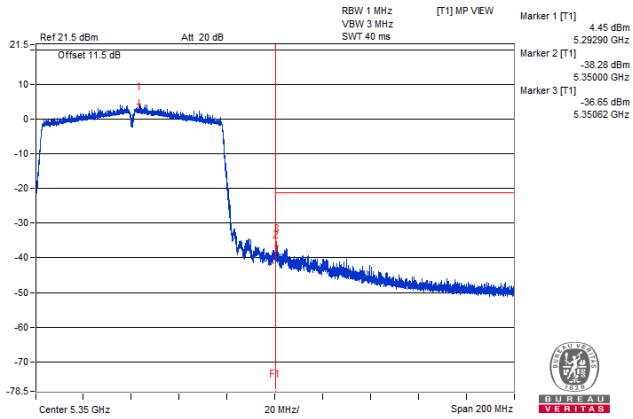
Chain 1

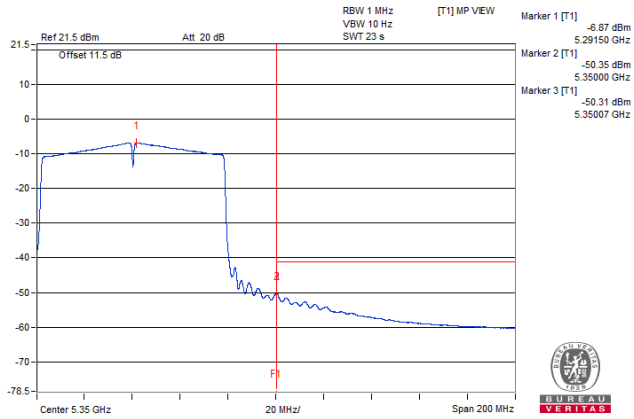
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5292.9 PK	105.86	*		4.45	6.15	10.6
2	5350 PK	63.13	74	-10.87	-38.28	6.15	-32.13
3	5350.62 PK	64.76	74	-9.24	-36.65	6.15	-30.5
4	5291.5 AV	94.54	*		-6.87	6.15	-0.72
5	5350 AV	51.06	54	-2.94	-50.35	6.15	-44.2
6	5350.07 AV	51.1	54	-2.9	-50.31	6.15	-44.16

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.

Chain 1





802.11ac (VHT80) - Channel 106

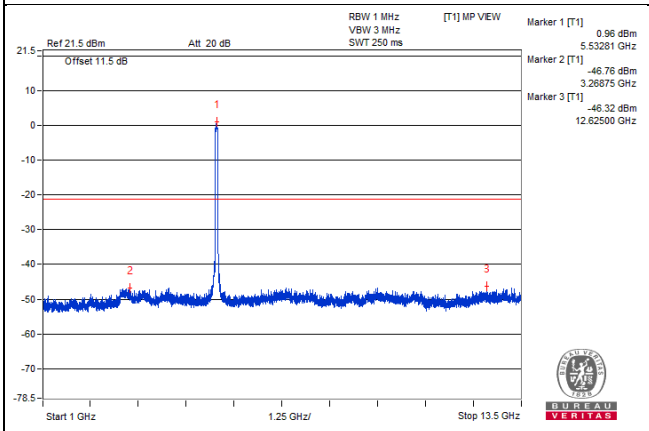
Conducted spurious emission table

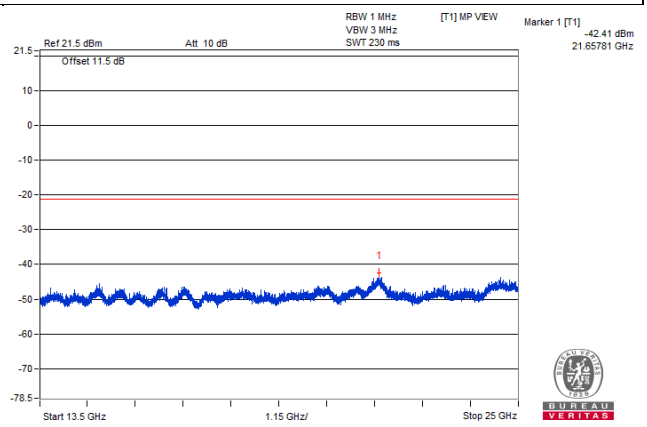
Chain 0

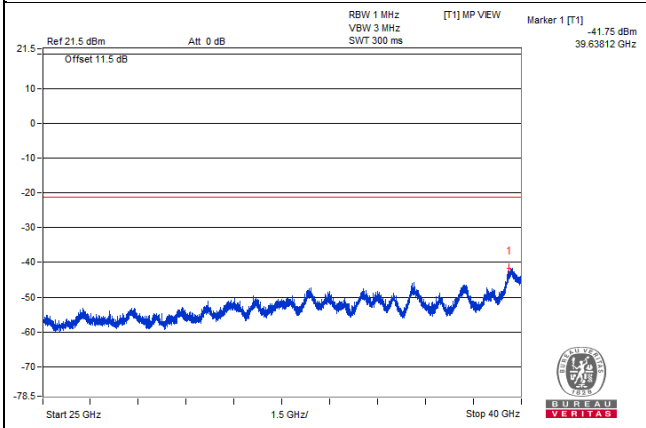
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5532.81 PK	103.06	*		0.96	6.84	7.8
2	3268.75 PK	55.34	68.2	-12.86	-46.76	6.84	-39.92
3	12625 PK	55.78	74	-18.22	-46.32	6.84	-39.48
4	21657.81 PK	59.69	68.2	-8.51	-42.41	6.84	-35.57
5	39638.12 PK	60.35	74	-13.65	-41.75	6.84	-34.91
6	5528.12 AV	94.61	*		-7.49	6.84	-0.65
7	5050 AV	38.92	54	-15.08	-63.18	6.84	-56.34
8	6009.37 AV	38.64	#		-63.46	6.84	-56.62
9	21611.81 AV	46.1	#		-56	6.84	-49.16
10	39688.75 AV	48.48	54	-5.52	-53.62	6.84	-46.78

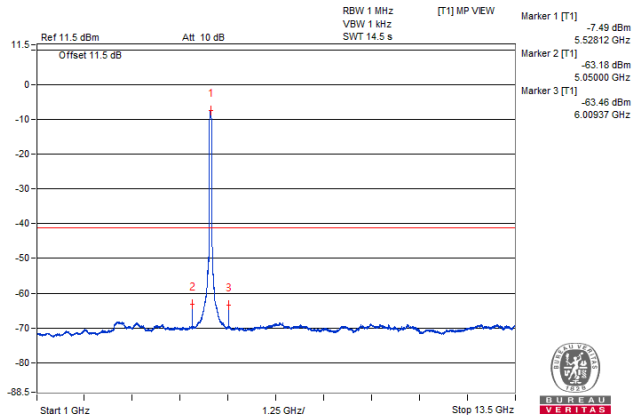
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

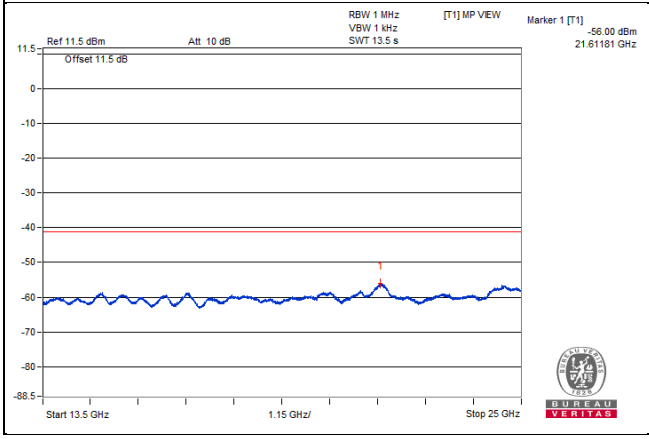
Chain 0

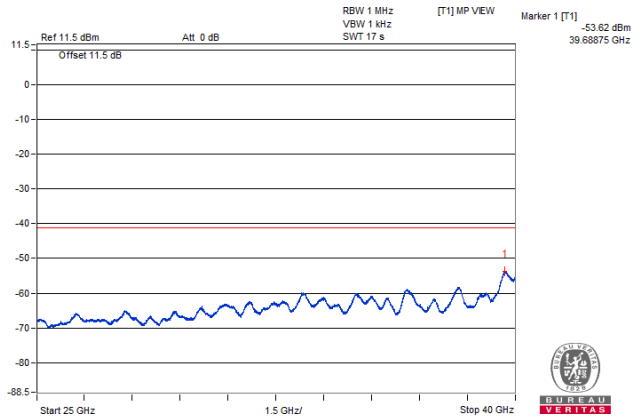

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
0.96 dBm
5.53281 GHz
Marker 2 [T1]
-46.76 dBm
3.26875 GHz
Marker 3 [T1]
-46.32 dBm
12.62500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-42.41 dBm
21.65781 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.75 dBm
39.63812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-7.49 dBm
5.52812 GHz
Marker 2 [T1]
-63.18 dBm
5.05000 GHz
Marker 3 [T1]
-63.46 dBm
6.00937 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.00 dBm
21.61181 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.62 dBm
39.68875 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

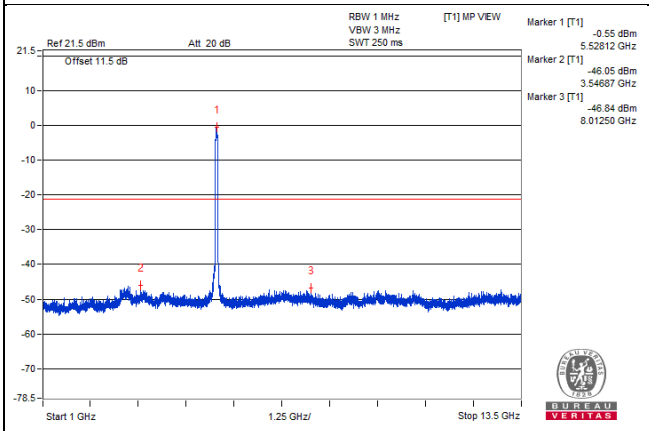
Chain 1

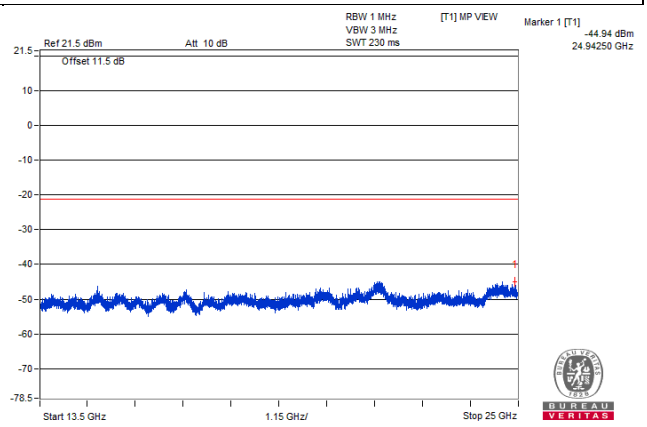
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5528.12 PK	102.98	*		-0.55	8.27	7.72
2	3546.87 PK	57.48	74	-16.52	-46.05	8.27	-37.78
3	8012.5 PK	56.69	68.2	-11.51	-46.84	8.27	-38.57
4	24942.5 PK	58.59	68.2	-9.61	-44.94	8.27	-36.67
5	39700 PK	61.6	74	-12.4	-41.93	8.27	-33.66
6	5528.12 AV	93.97	*		-9.56	8.27	-1.29
7	4423.43 AV	36.89	#		-66.64	8.27	-58.37
8	5775 AV	34.75	#		-68.78	8.27	-60.51
9	21633.37 AV	47.19	#		-56.34	8.27	-48.07
10	39722.5 AV	49.21	54	-4.79	-54.32	8.27	-46.05

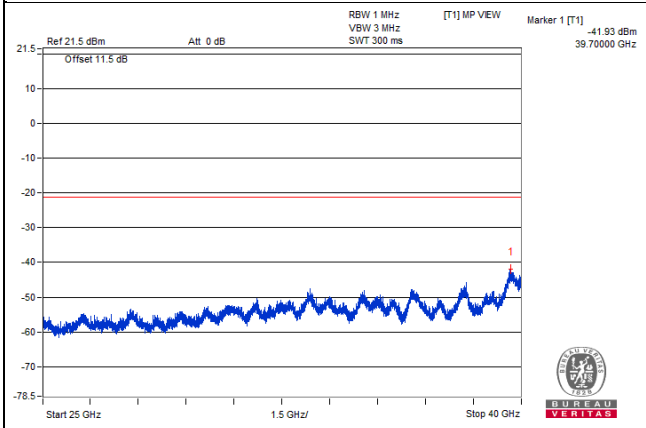
Note :

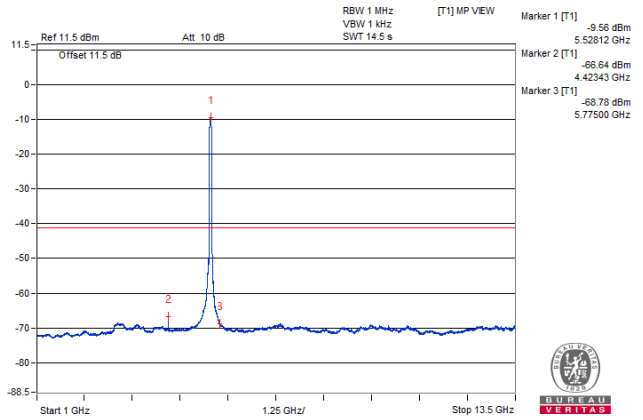
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

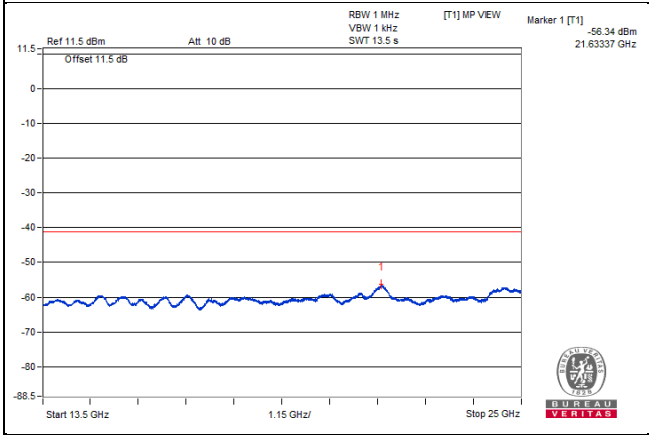
Chain 1

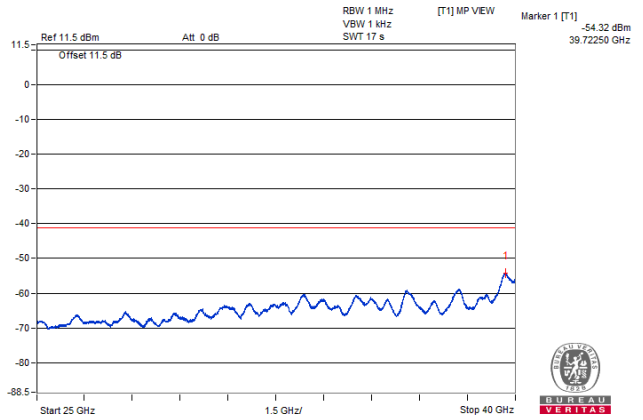

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
-0.55 dBm
5.52812 GHz
Marker 2 [T1]
-46.05 dBm
3.54687 GHz
Marker 3 [T1]
-46.84 dBm
8.01250 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.94 dBm
24.94250 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.93 dBm
39.70000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-9.56 dBm
5.52812 GHz
Marker 2 [T1]
-66.64 dBm
4.42343 GHz
Marker 3 [T1]
-68.78 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.34 dBm
21.63337 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.32 dBm
39.72250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

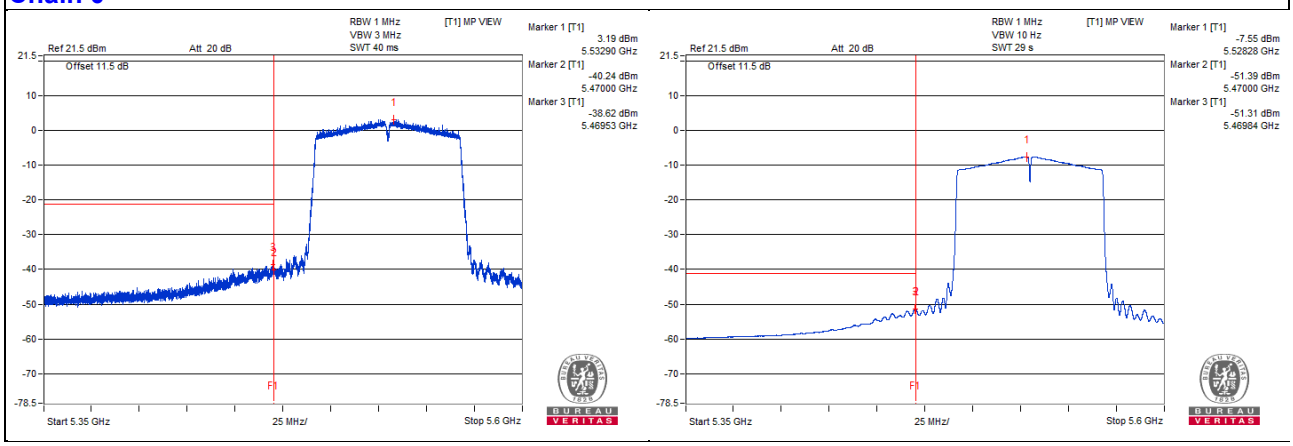
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5532.9 PK	105.29	*		3.19	6.84	10.03
2	5470 PK	61.86	68.2	-6.34	-40.24	6.84	-33.4
3	5469.53 PK	63.48	68.2	-4.72	-38.62	6.84	-31.78
4	5528.28 AV	94.55	*		-7.55	6.84	-0.71
5	5470 AV	50.71	#		-51.39	6.84	-44.55
6	5469.84 AV	50.79	#		-51.31	6.84	-44.47

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

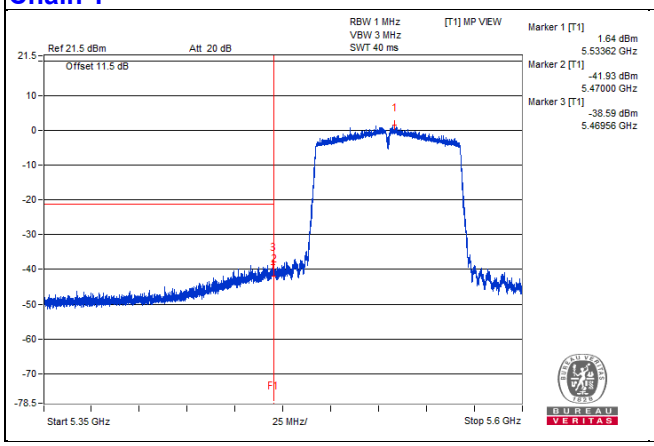


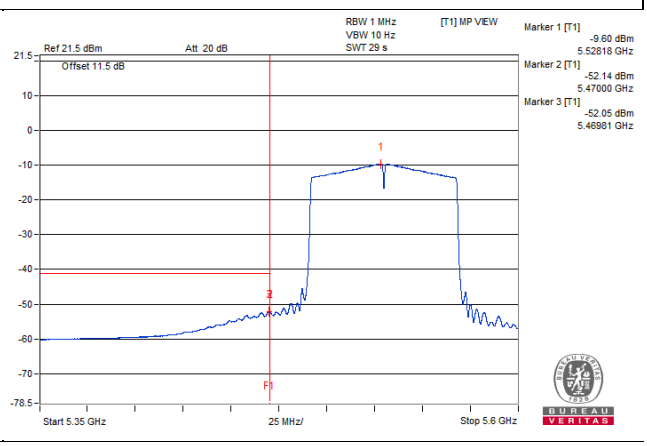
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5533.62 PK	102.7	*		1.64	5.8	7.44
2	5470 PK	59.13	68.2	-9.07	-41.93	5.8	-36.13
3	5469.56 PK	62.47	68.2	-5.73	-38.59	5.8	-32.79
4	5528.18 AV	91.46	*		-9.6	5.8	-3.8
5	5470 AV	48.92	#		-52.14	5.8	-46.34
6	5469.81 AV	49.01	#		-52.05	5.8	-46.25

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT80) - Channel 122

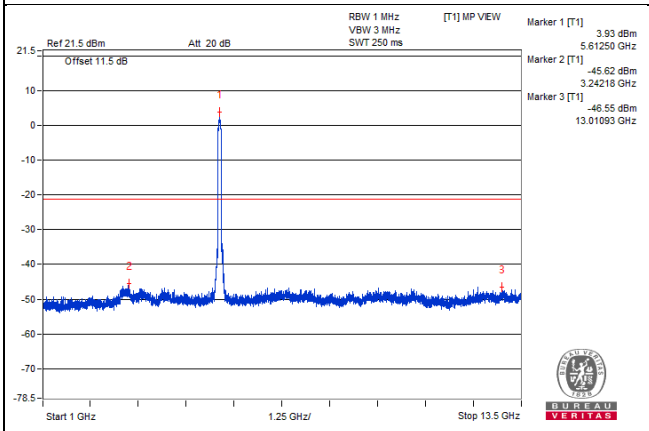
Conducted spurious emission table

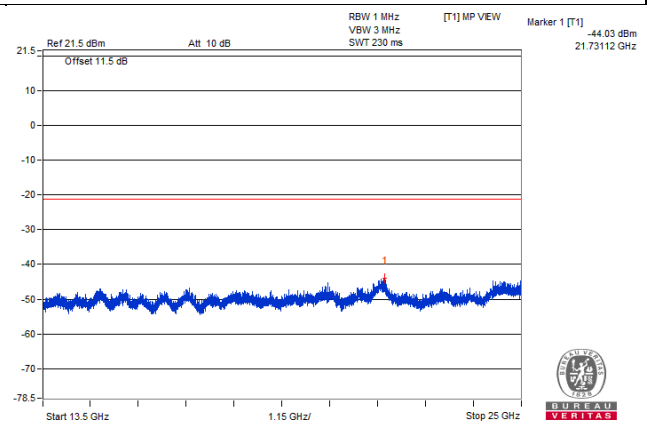
Chain 0

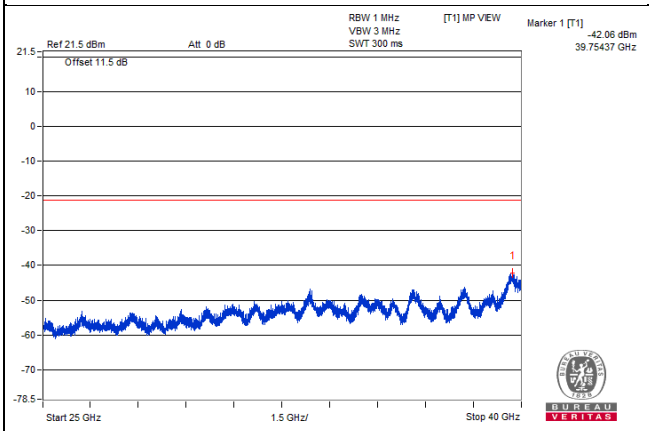
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5612.5 PK	106.03	*		3.93	6.84	10.77
2	3242.18 PK	56.48	68.2	-11.72	-45.62	6.84	-38.78
3	13010.93 PK	55.55	68.2	-12.65	-46.55	6.84	-39.71
4	21731.12 PK	58.07	68.2	-10.13	-44.03	6.84	-37.19
5	39754.37 PK	60.04	74	-13.96	-42.06	6.84	-35.22
6	5610.93 AV	96.06	*		-6.04	6.84	0.8
7	3101.56 AV	33.95	#		-68.15	6.84	-61.31
8	6089.06 AV	37.86	#		-64.24	6.84	-57.4
9	21637.68 AV	45.96	#		-56.14	6.84	-49.3
10	39720.62 AV	48.44	54	-5.56	-53.66	6.84	-46.82

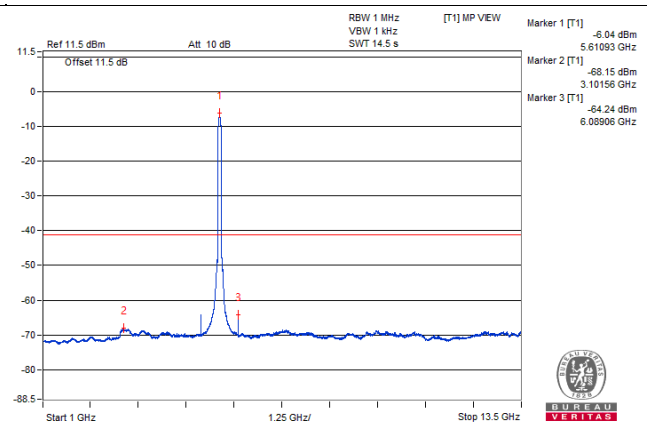
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

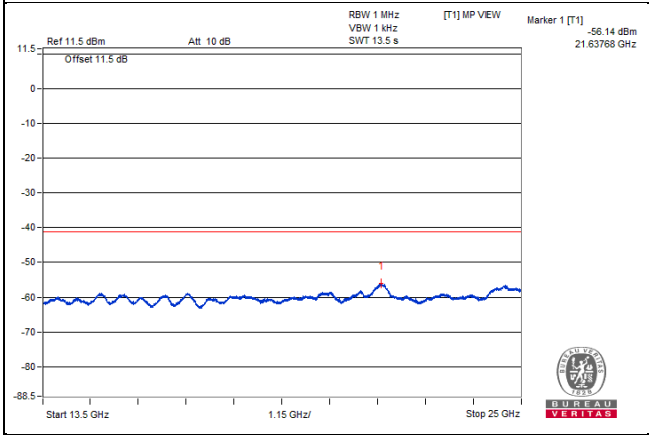
Chain 0

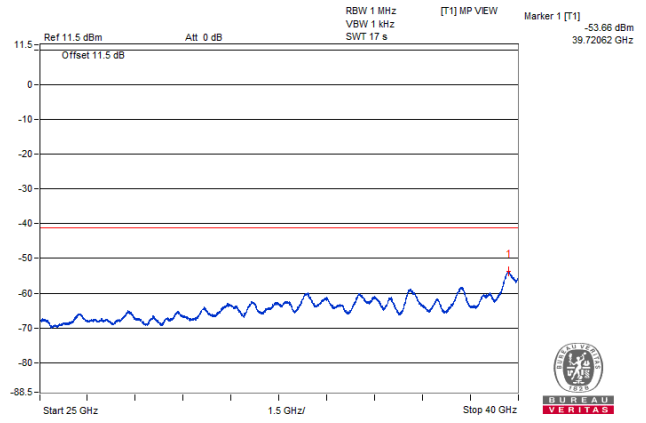

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.93 dBm
5.61250 GHz
Marker 2 [T1]
-45.62 dBm
3.24218 GHz
Marker 3 [T1]
-46.55 dBm
13.01093 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.03 dBm
21.73112 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.06 dBm
39.75437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-6.04 dBm
5.61093 GHz
Marker 2 [T1]
-68.15 dBm
3.10156 GHz
Marker 3 [T1]
-64.24 dBm
6.08908 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.14 dBm
21.63768 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

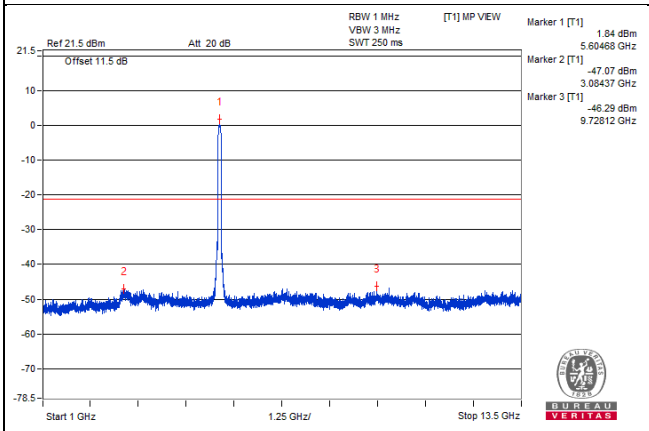

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.66 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

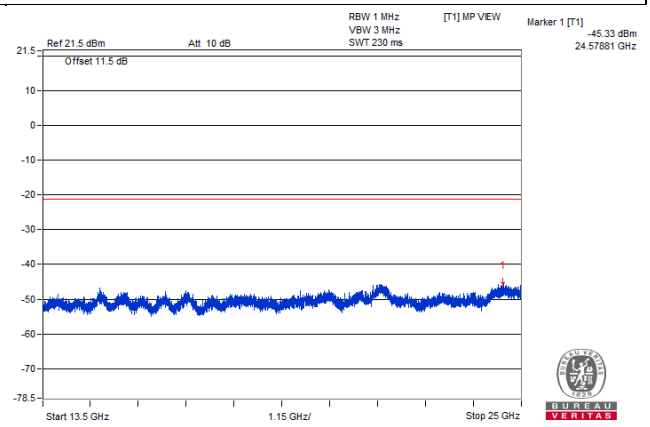
Chain 1

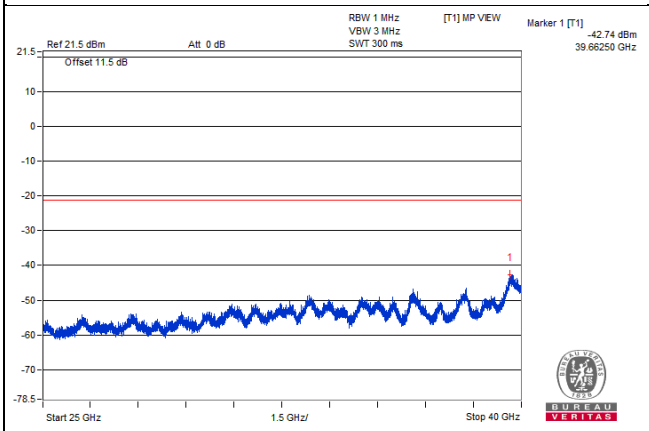
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5604.68 PK	105.37	*		1.84	8.27	10.11
2	3084.37 PK	56.46	68.2	-11.74	-47.07	8.27	-38.8
3	9728.12 PK	57.24	68.2	-10.96	-46.29	8.27	-38.02
4	24578.81 PK	58.2	68.2	-10	-45.33	8.27	-37.06
5	39662.5 PK	60.79	74	-13.21	-42.74	8.27	-34.47
6	5610.93 AV	96.24	*		-7.29	8.27	0.98
7	4487.5 AV	36.88	#		-66.65	8.27	-58.38
8	5776.56 AV	38.61	#		-64.92	8.27	-56.65
9	21642 AV	46.8	#		-56.73	8.27	-48.46
10	39701.87 AV	49.18	54	-4.82	-54.35	8.27	-46.08

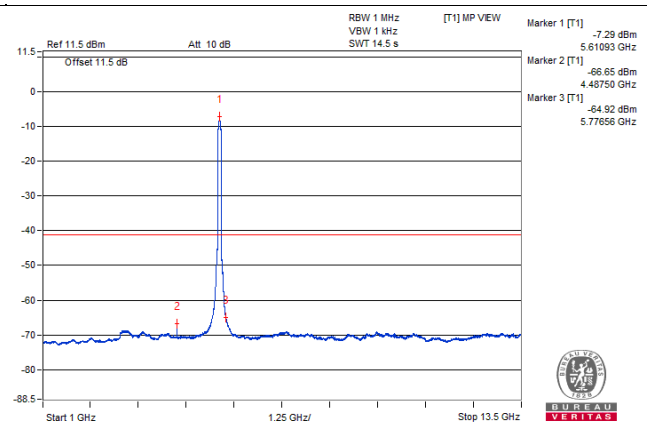
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

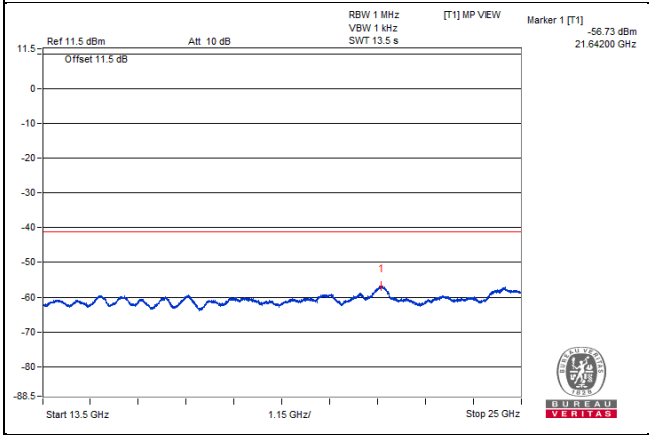
Chain 1

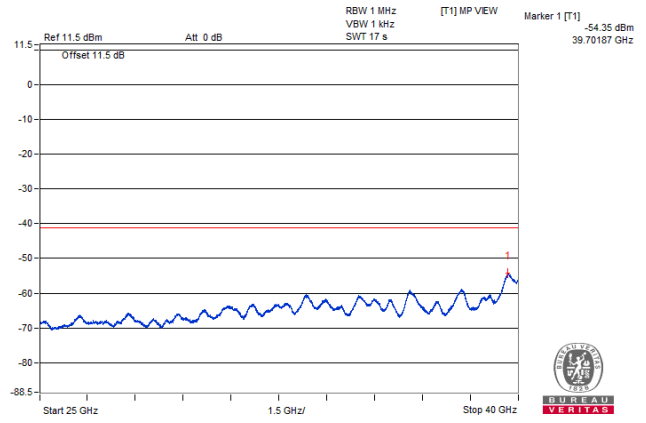

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
1.84 dBm
5.60468 GHz
Marker 2 [T1]
-47.07 dBm
3.08437 GHz
Marker 3 [T1]
-46.29 dBm
9.72812 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-45.33 dBm
24.57881 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.74 dBm
39.66250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-7.29 dBm
5.61093 GHz
Marker 2 [T1]
-66.65 dBm
4.48750 GHz
Marker 3 [T1]
-64.92 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.73 dBm
21.64200 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.35 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

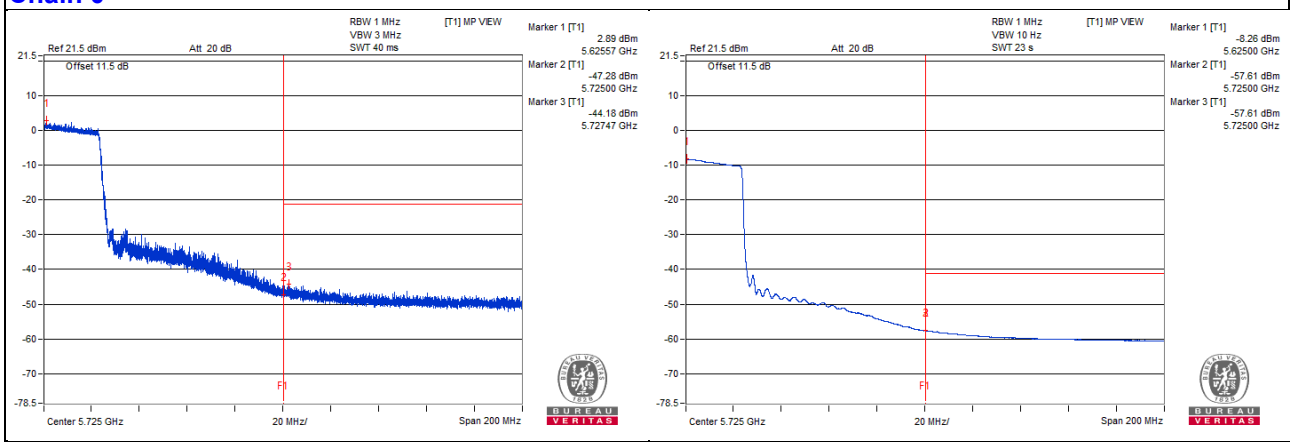
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5625.57 PK	104.99	*		2.89	6.84	9.73
2	5725 PK	54.82	68.2	-13.38	-47.28	6.84	-40.44
3	5727.47 PK	57.92	68.2	-10.28	-44.18	6.84	-37.34
4	5625 AV	93.84	*		-8.26	6.84	-1.42
5	5725 AV	44.49	#		-57.61	6.84	-50.77
6	5725 AV	44.49	#		-57.61	6.84	-50.77

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



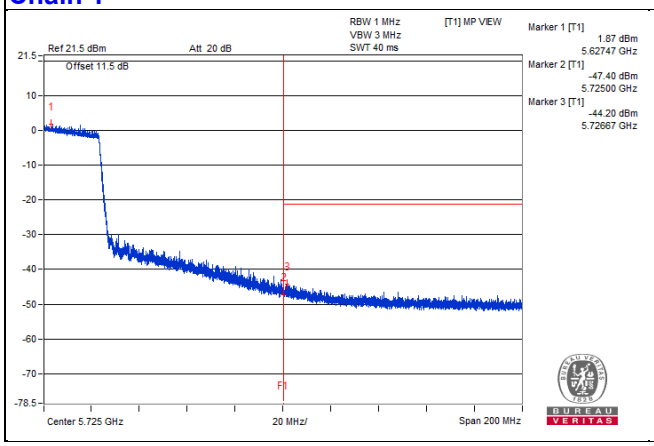
Chain 1

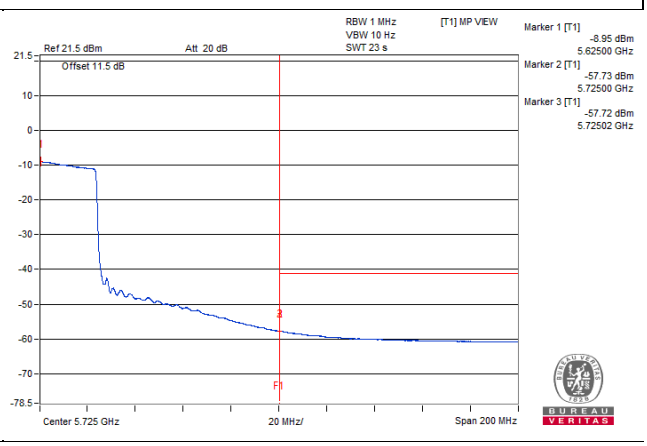
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5627.47 PK	102.93	*		1.87	5.8	7.67
2	5725 PK	53.66	68.2	-14.54	-47.4	5.8	-41.6
3	5726.67 PK	56.86	68.2	-11.34	-44.2	5.8	-38.4
4	5625 AV	92.11	*		-8.95	5.8	-3.15
5	5725 AV	43.33	#		-57.73	5.8	-51.93
6	5725.02 AV	43.34	#		-57.72	5.8	-51.92

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT80) - Channel 138

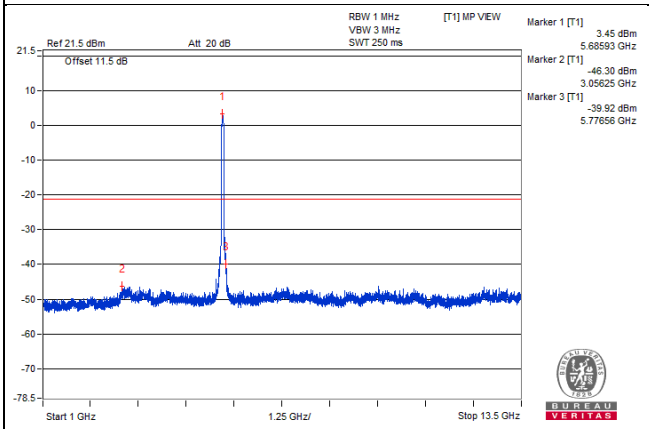
Conducted spurious emission table

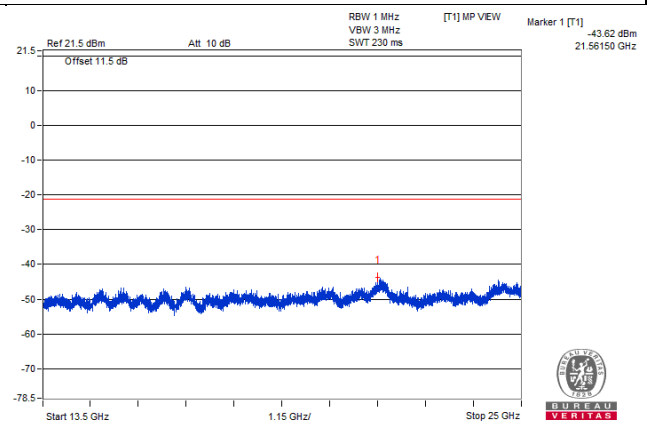
Chain 0

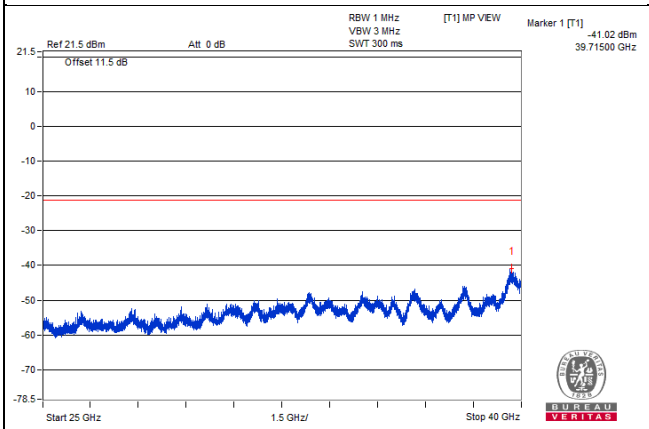
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5685.93 PK	105.55	*		3.45	6.84	10.29
2	3056.25 PK	55.8	68.2	-12.4	-46.3	6.84	-39.46
3	5776.56 PK	62.18	68.2	-6.02	-39.92	6.84	-33.08
4	21561.5 PK	58.48	68.2	-9.72	-43.62	6.84	-36.78
5	39715 PK	61.08	74	-12.92	-41.02	6.84	-34.18
6	5687.5 AV	96.1	*		-6	6.84	0.84
7	3159.37 AV	33.93	#		-68.17	6.84	-61.33
8	5775 AV	49.19	#		-52.91	6.84	-46.07
9	21626.18 AV	46.11	#		-55.99	6.84	-49.15
10	39703.75 AV	48.78	54	-5.22	-53.32	6.84	-46.48

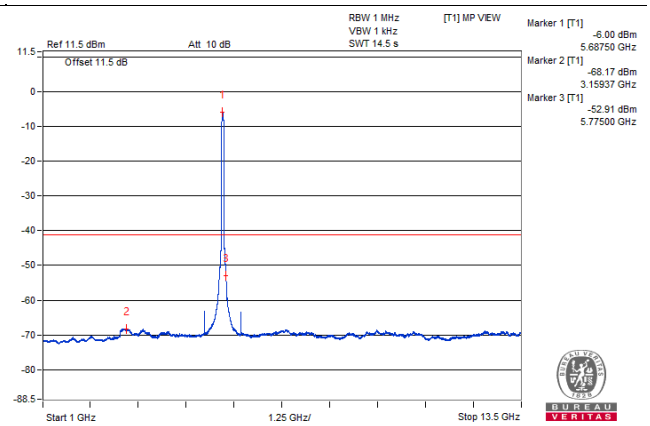
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

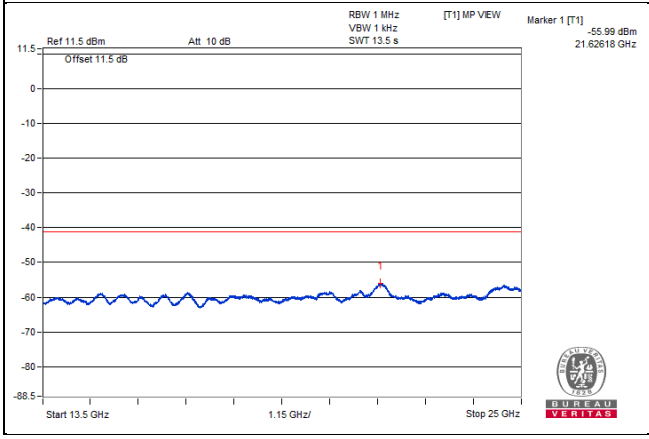
Chain 0

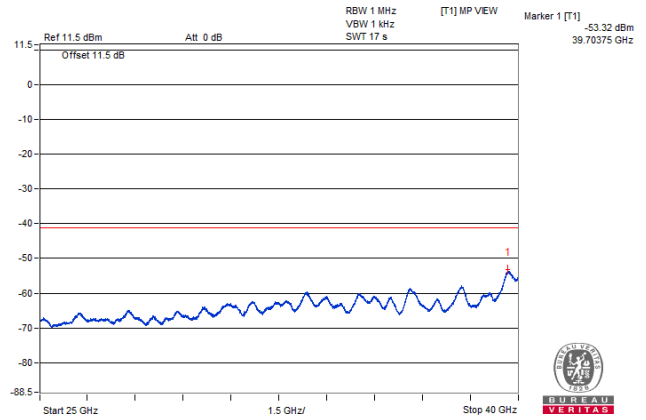

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.45 dBm
5.68593 GHz
Marker 2 [T1]
-46.30 dBm
3.05625 GHz
Marker 3 [T1]
-39.92 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.62 dBm
21.56150 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.02 dBm
39.71500 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-6.00 dBm
5.68750 GHz
Marker 2 [T1]
-68.17 dBm
3.15937 GHz
Marker 3 [T1]
-52.91 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.99 dBm
21.62618 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

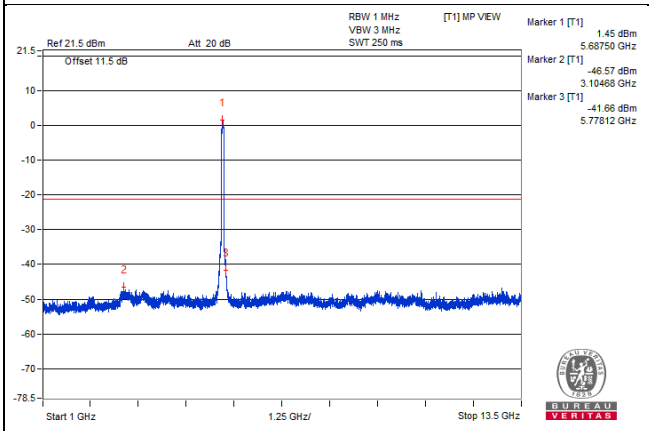

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.32 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

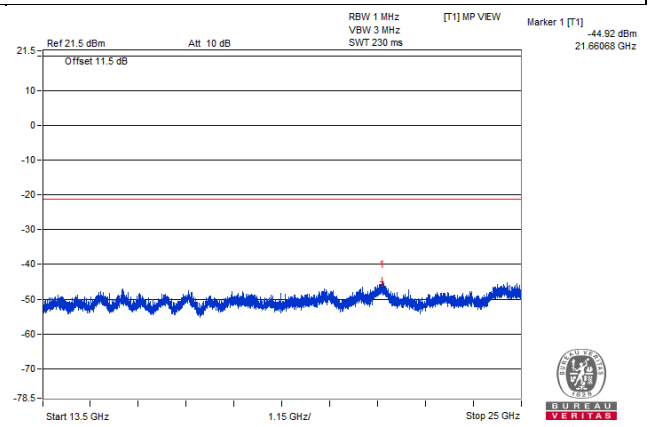
Chain 1

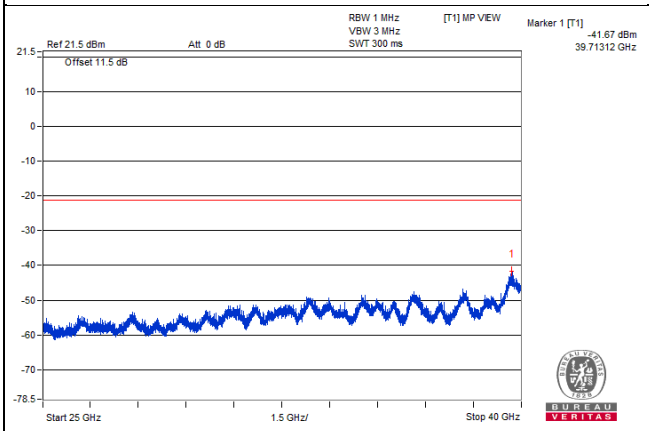
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5687.5 PK	104.98	*		1.45	8.27	9.72
2	3104.68 PK	56.96	68.2	-11.24	-46.57	8.27	-38.3
3	5778.12 PK	61.87	68.2	-6.33	-41.66	8.27	-33.39
4	21660.68 PK	58.61	68.2	-9.59	-44.92	8.27	-36.65
5	39713.12 PK	61.86	74	-12.14	-41.67	8.27	-33.4
6	5687.5 AV	96.2	*		-7.33	8.27	0.94
7	4551.56 AV	38.58	54	-15.42	-64.95	8.27	-56.68
8	5775 AV	49.96	#		-53.57	8.27	-45.3
9	21670.75 AV	46.87	#		-56.66	8.27	-48.39
10	39703.75 AV	49.23	54	-4.77	-54.3	8.27	-46.03

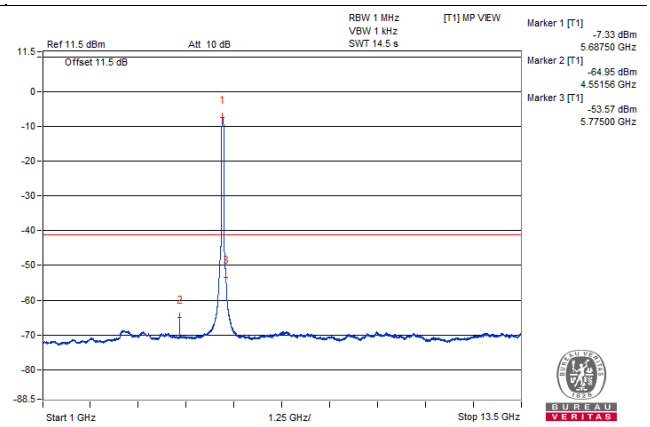
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

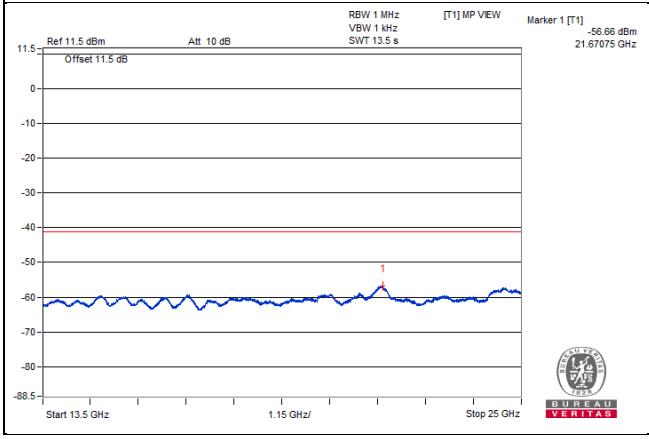
Chain 1

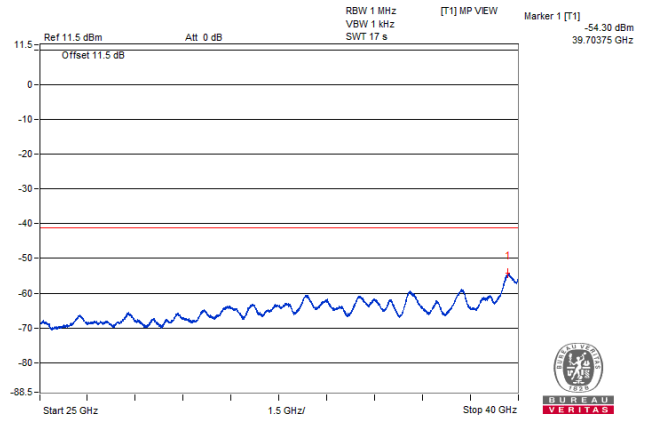

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
1.45 dBm
5.68750 GHz
Marker 2 [T1]
-46.57 dBm
3.10468 GHz
Marker 3 [T1]
-41.66 dBm
5.77812 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.92 dBm
21.66068 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.67 dBm
39.71312 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-7.33 dBm
5.68750 GHz
Marker 2 [T1]
-64.95 dBm
4.55156 GHz
Marker 3 [T1]
-53.57 dBm
5.77500 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.66 dBm
21.67075 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.30 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

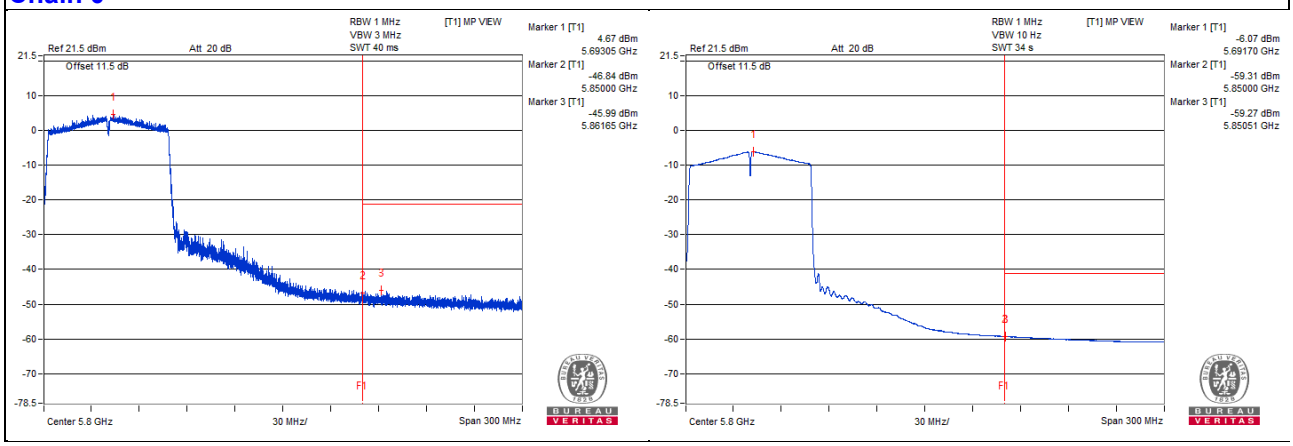
Bandedge table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5693.05 PK	106.77	*		4.67	6.84	11.51
2	5850 PK	55.26	68.2	-12.94	-46.84	6.84	-40
3	5861.65 PK	56.11	68.2	-12.09	-45.99	6.84	-39.15
4	5691.7 AV	96.03	*		-6.07	6.84	0.77
5	5850 AV	42.79	#		-59.31	6.84	-52.47
6	5850.51 AV	42.83	#		-59.27	6.84	-52.43

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

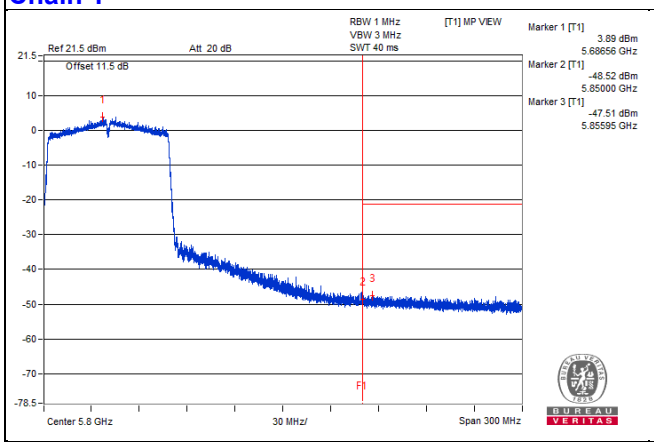


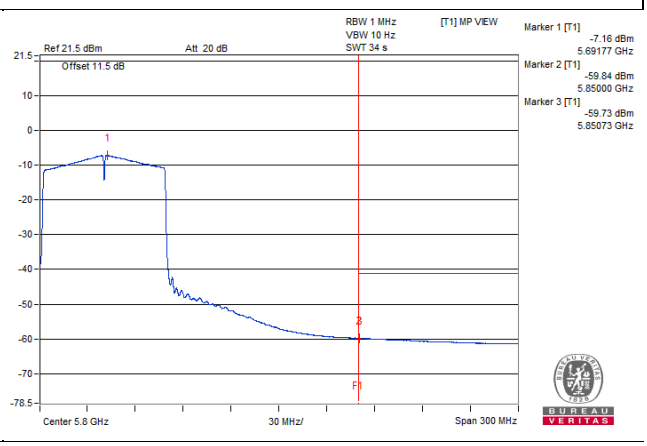
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5686.56 PK	104.95	*		3.89	5.8	9.69
2	5850 PK	52.54	68.2	-15.66	-48.52	5.8	-42.72
3	5855.95 PK	53.55	68.2	-14.65	-47.51	5.8	-41.71
4	5691.77 AV	93.9	*		-7.16	5.8	-1.36
5	5850 AV	41.22	#		-59.84	5.8	-54.04
6	5850.73 AV	41.33	#		-59.73	5.8	-53.93

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 1





802.11ac (VHT80) – Channel 155

Conducted spurious emission table

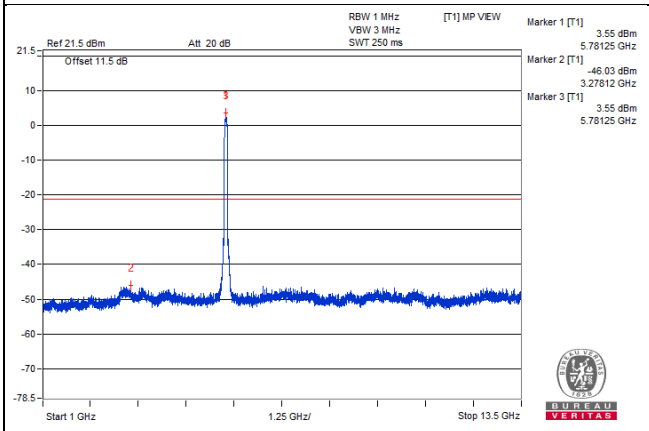
Chain 0

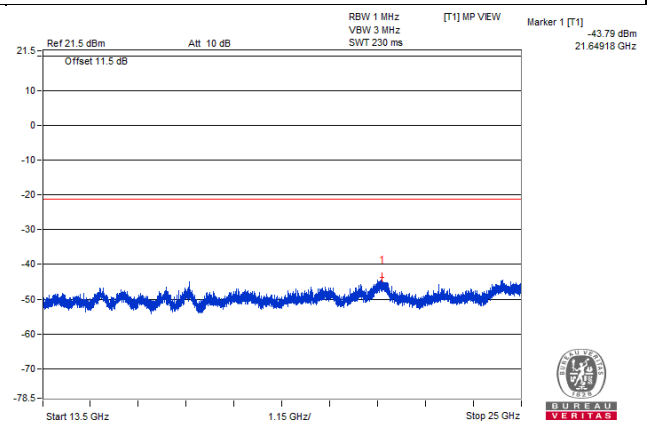
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5781.25 PK	105.65	*		3.55	6.84	10.39
2	3278.12 PK	56.07	68.2	-12.13	-46.03	6.84	-39.19
3	5781.25 PK	105.65	*		3.55	6.84	10.39
4	21649.18 PK	58.31	68.2	-9.89	-43.79	6.84	-36.95
5	39666.25 PK	60.69	74	-13.31	-41.41	6.84	-34.57
6	5776.56 AV	96.55	*		-5.55	6.84	1.29
7	3073.43 AV	34.21	#		-67.89	6.84	-61.05
8	5776.56 AV	96.55	*		-5.55	6.84	1.29
9	21624.75 AV	46.22	#		-55.88	6.84	-49.04
10	39722.5 AV	48.78	54	-5.22	-53.32	6.84	-46.48

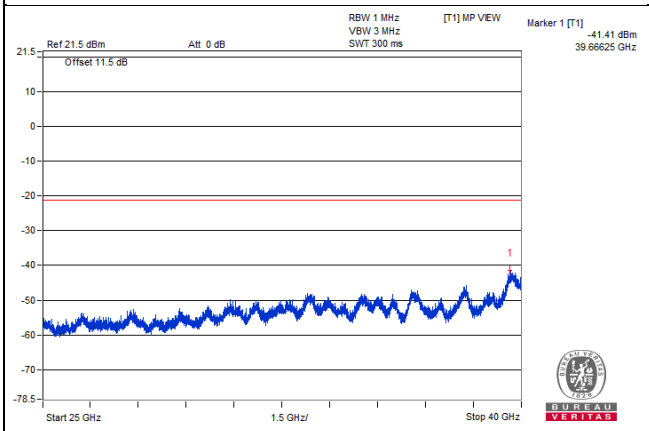
Note :

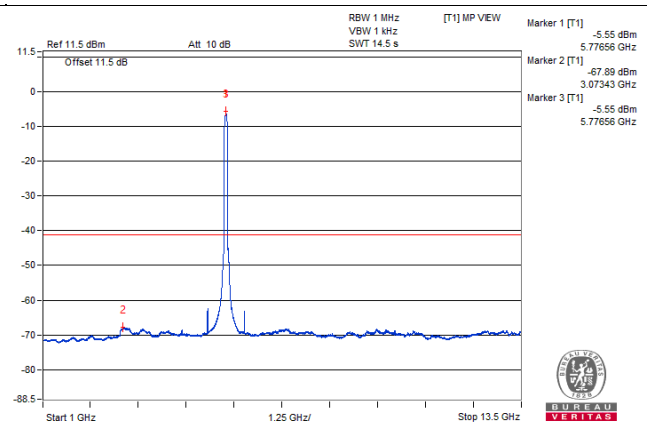
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

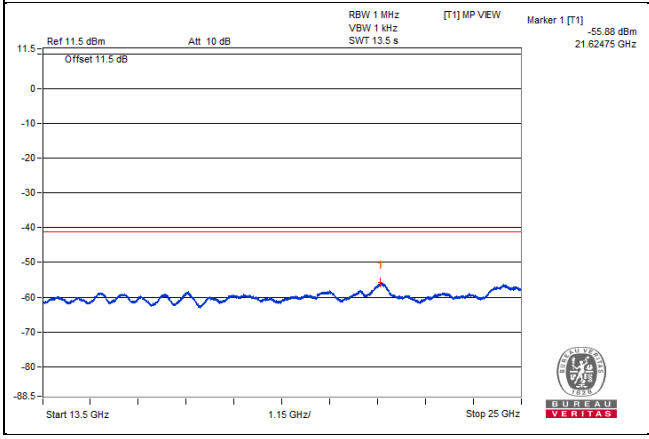
Chain 0

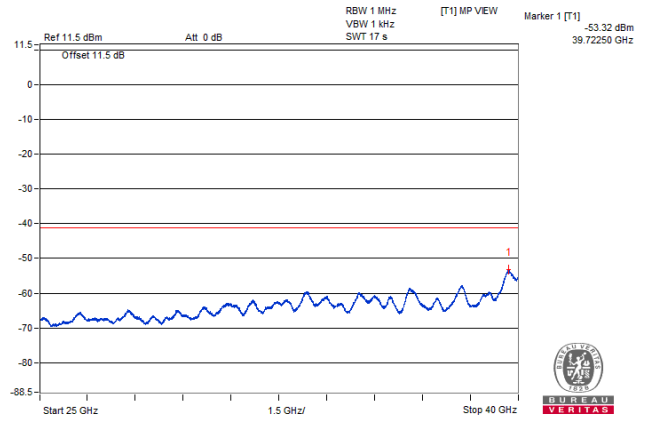

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.55 dBm
5.78125 GHz
Marker 2 [T1]
-46.03 dBm
3.27812 GHz
Marker 3 [T1]
3.55 dBm
5.78125 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.79 dBm
21.64918 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.41 dBm
39.66625 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-5.55 dBm
5.77656 GHz
Marker 2 [T1]
-67.89 dBm
3.07343 GHz
Marker 3 [T1]
-5.55 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-55.88 dBm
21.62475 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

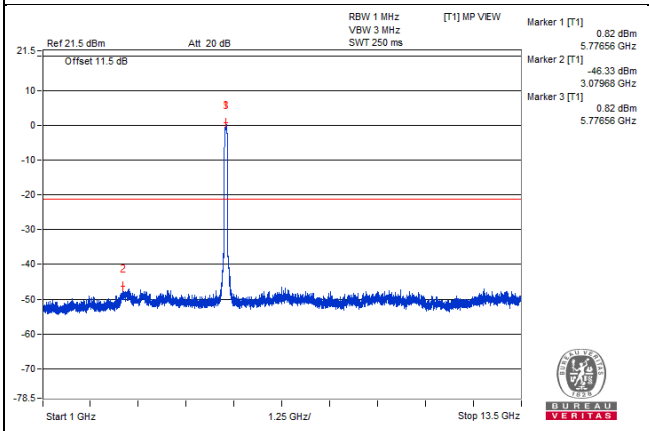

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.32 dBm
39.72250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

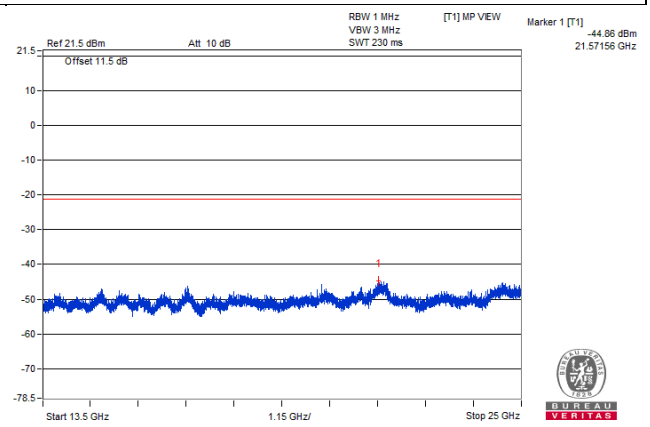
Chain 1

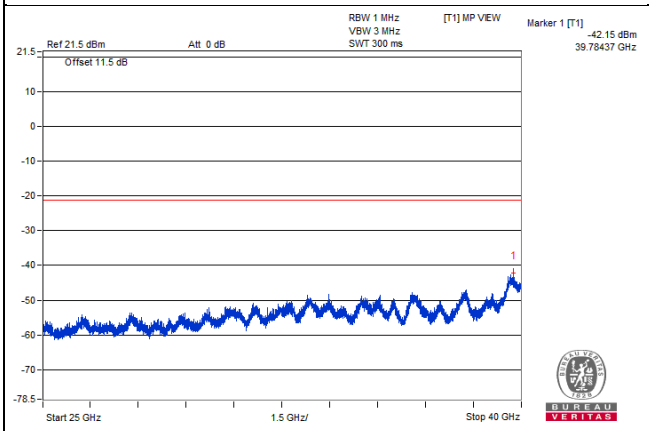
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5776.56 PK	104.35	*		0.82	8.27	9.09
2	3079.68 PK	57.2	68.2	-11	-46.33	8.27	-38.06
3	5776.56 PK	104.35	*		0.82	8.27	9.09
4	21571.56 PK	58.67	68.2	-9.53	-44.86	8.27	-36.59
5	39784.37 PK	61.38	74	-12.62	-42.15	8.27	-33.88
6	5773.43 AV	95.5	*		-8.03	8.27	0.24
7	4620.31 AV	39.73	54	-14.27	-63.8	8.27	-55.53
8	5776.56 AV	95.32	*		-8.21	8.27	0.06
9	21646.31 AV	46.87	#		-56.66	8.27	-48.39
10	39701.87 AV	49.3	54	-4.7	-54.23	8.27	-45.96

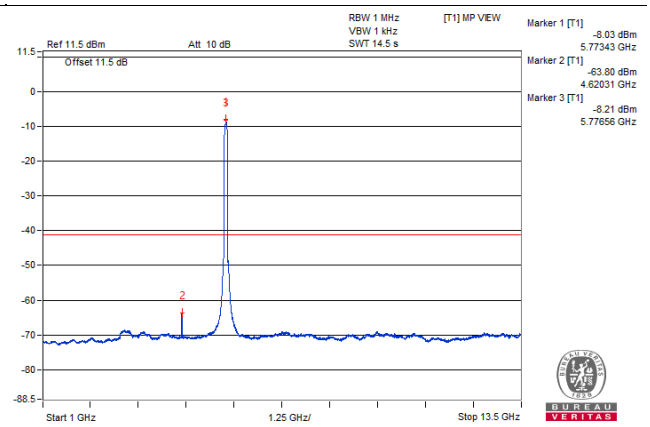
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

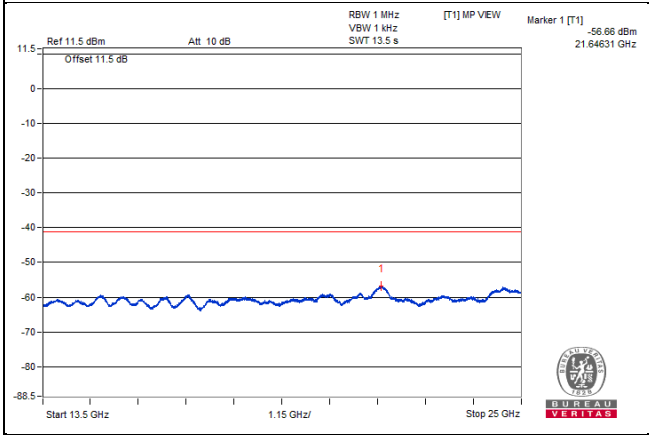
Chain 1

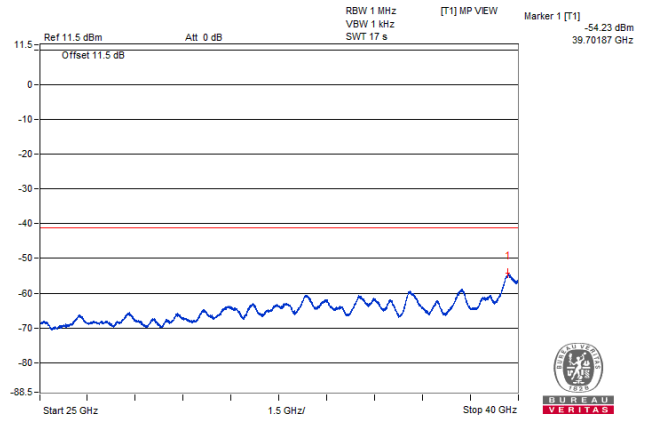

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
0.82 dBm
5.77656 GHz
Marker 2 [T1]
-46.33 dBm
3.07968 GHz
Marker 3 [T1]
0.82 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.86 dBm
21.57156 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.15 dBm
39.78437 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

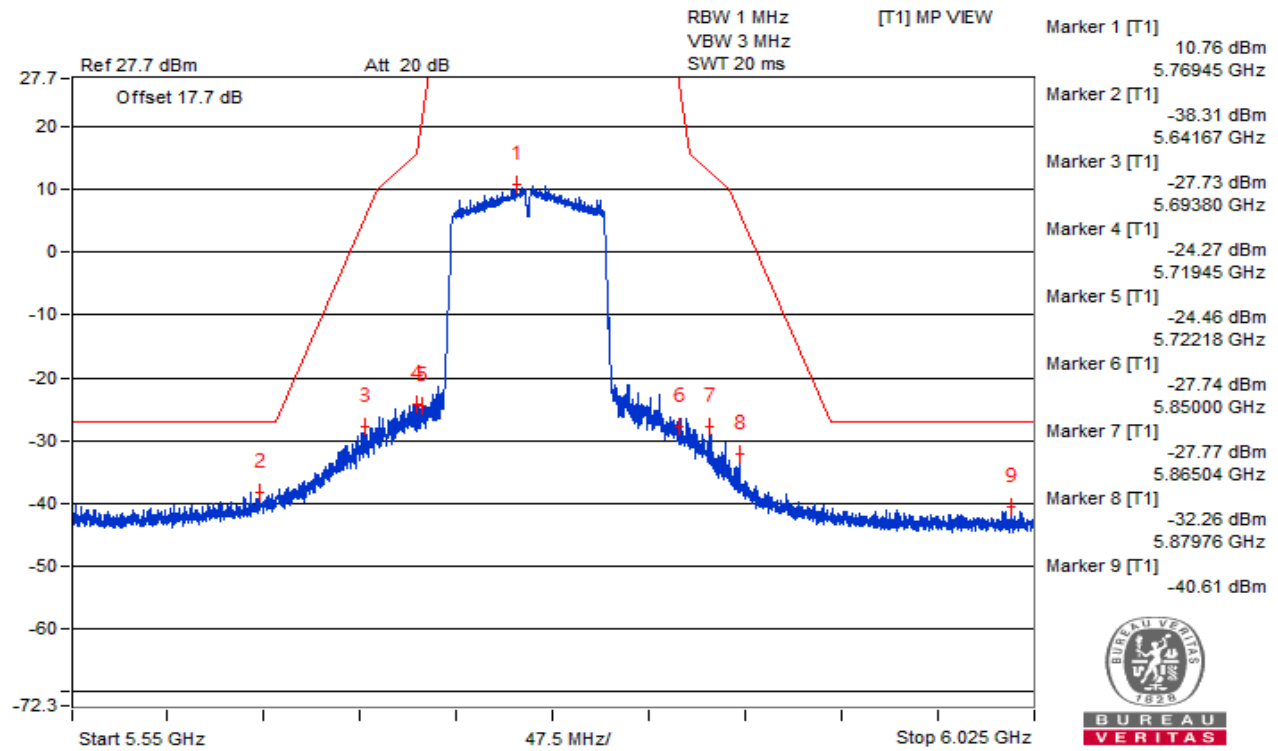

RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-8.03 dBm
5.77343 GHz
Marker 2 [T1]
-63.80 dBm
4.62031 GHz
Marker 3 [T1]
-8.21 dBm
5.77656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.66 dBm
21.64631 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

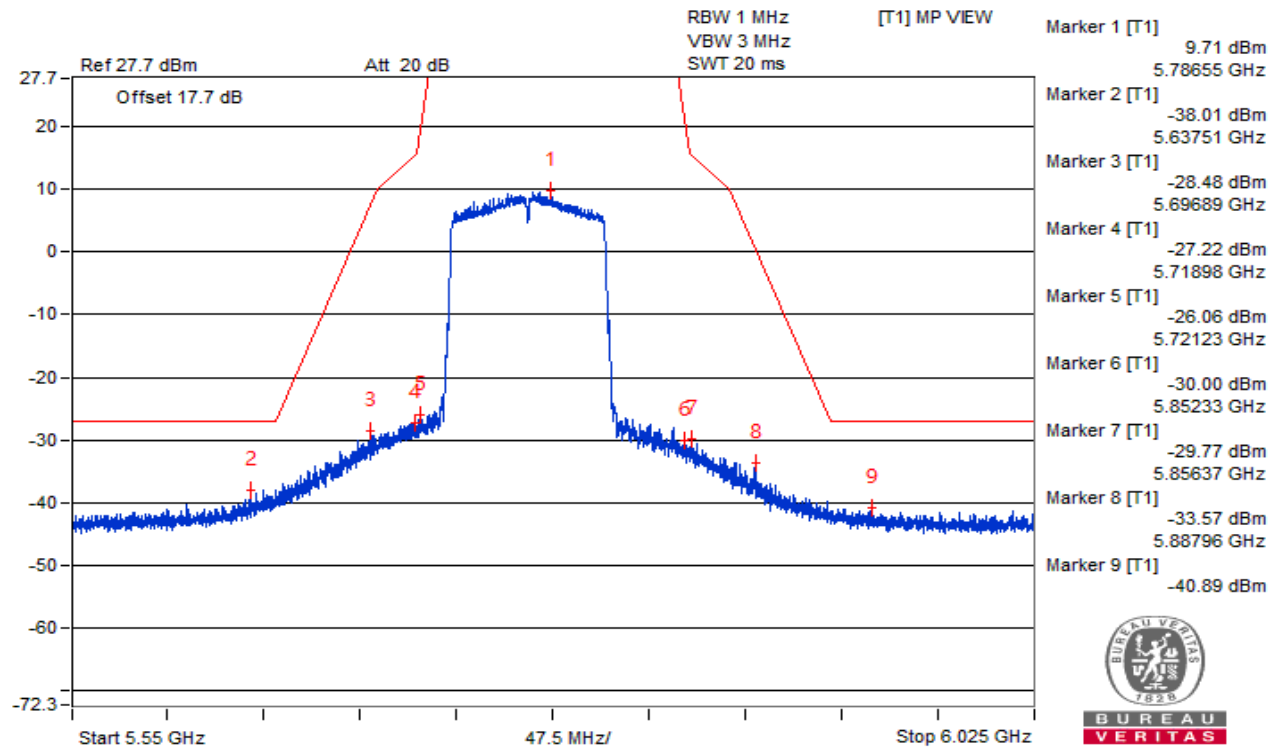

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-54.23 dBm
39.70187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (3.19 dBi) and 10log2 (3.01dB).
2. The test results were EIRP.

Below 1GHz Data
802.11ac (VHT20) – Channel 40
Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	86.74	38	#		-64.1	6.84	-57.26
2	193.93	38.91	#		-63.19	6.84	-56.35
3	751.07	39.36	#		-62.74	6.84	-55.9
4	981.81	39.17	54	-14.83	-62.93	6.84	-56.09

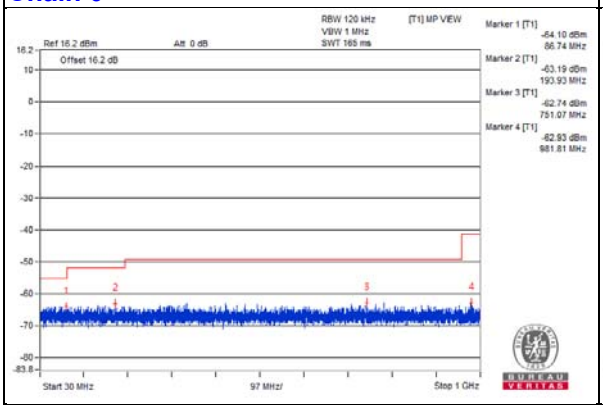
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 1

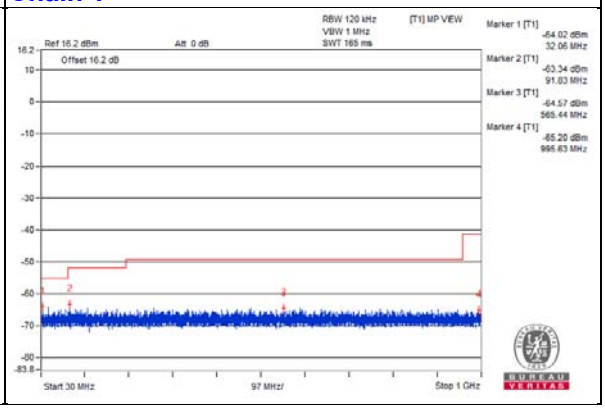
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	32.06	39.51	#		-64.02	8.27	-55.75
2	91.83	40.19	#		-63.34	8.27	-55.07
3	565.44	38.96	#		-64.57	8.27	-56.3
4	995.63	38.33	54	-15.67	-65.2	8.27	-56.93

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 0



Chain 1



802.11ac (VHT20) – Channel 60

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	71.22	34.03	#		-68.07	6.84	-61.23
2	91.95	34.12	#		-67.98	6.84	-61.14
3	601.08	33.96	#		-68.14	6.84	-61.3
4	986.66	33.55	54	-20.45	-68.55	6.84	-61.71

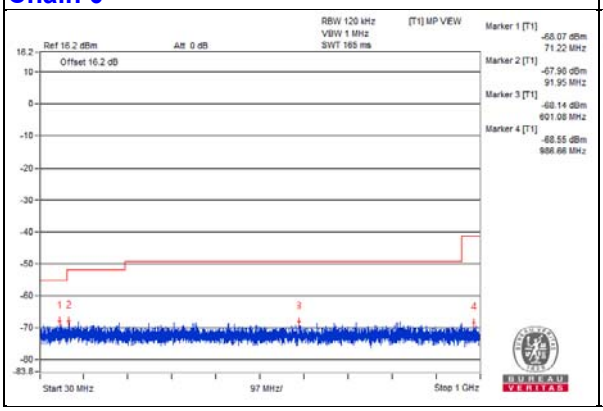
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 1

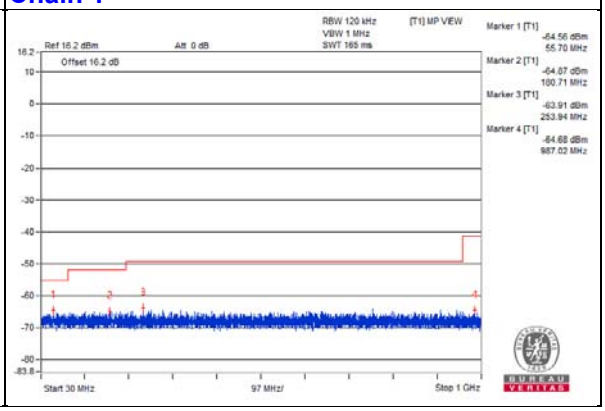
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	55.7	38.97	#		-64.56	8.27	-56.29
2	180.71	38.66	#		-64.87	8.27	-56.6
3	253.94	39.62	46	-6.38	-63.91	8.27	-55.64
4	987.02	38.85	54	-15.15	-64.68	8.27	-56.41

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 0



Chain 1



802.11ac (VHT20) – Channel 144

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	80.19	32.81	#		-69.29	6.84	-62.45
2	111.35	32.71	43.5	-10.79	-69.39	6.84	-62.55
3	657.83	34.05	#		-68.05	6.84	-61.21
4	994.05	32.49	54	-21.51	-69.61	6.84	-62.77

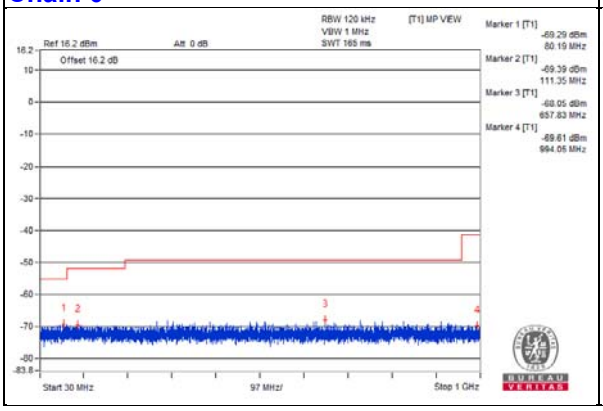
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 1

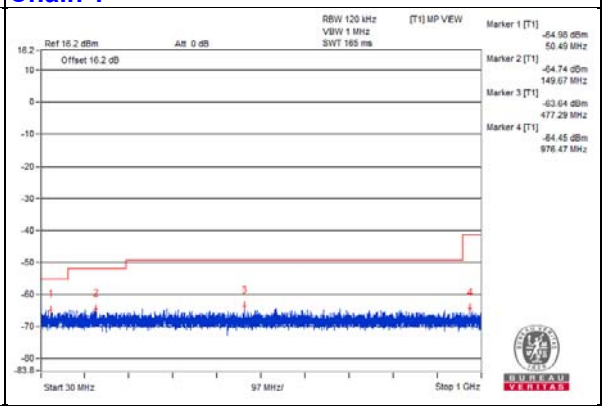
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	50.49	38.55	#		-64.98	8.27	-56.71
2	149.67	38.79	#		-64.74	8.27	-56.47
3	477.29	39.89	#		-63.64	8.27	-55.37
4	976.47	39.08	54	-14.92	-64.45	8.27	-56.18

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 0



Chain 1



802.11ac (VHT20) – Channel 149

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	68.19	32.95	#		-69.15	6.84	-62.31
2	157.31	33.57	#		-68.53	6.84	-61.69
3	940.58	34.87	46	-11.13	-67.23	6.84	-60.39
4	977.44	32.83	54	-21.17	-69.27	6.84	-62.43

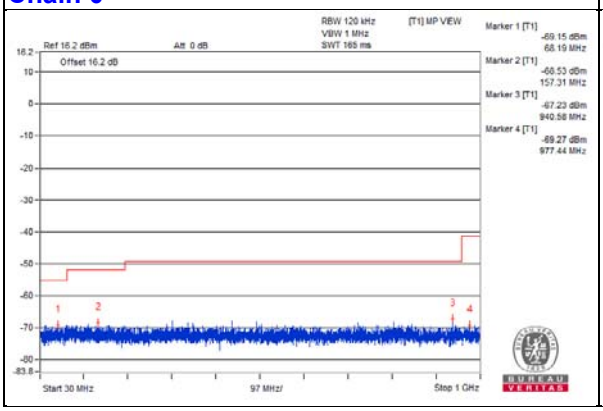
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 1

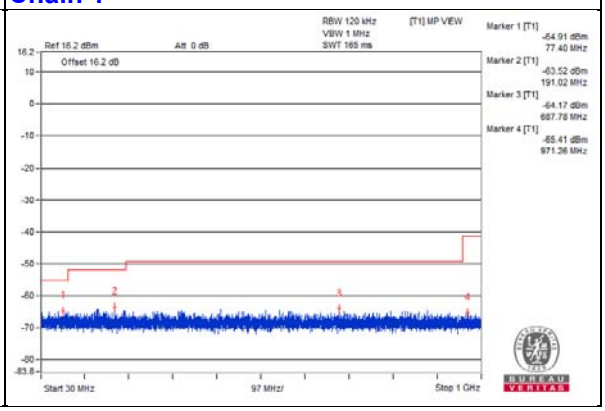
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	77.4	38.62	#		-64.91	8.27	-56.64
2	191.02	40.01	#		-63.52	8.27	-55.25
3	687.78	39.36	#		-64.17	8.27	-55.9
4	971.26	38.12	54	-15.88	-65.41	8.27	-57.14

Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.
4. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

Chain 0



Chain 1



4.1.7.2 Test Results (Mode 2)

Above 1GHz Data

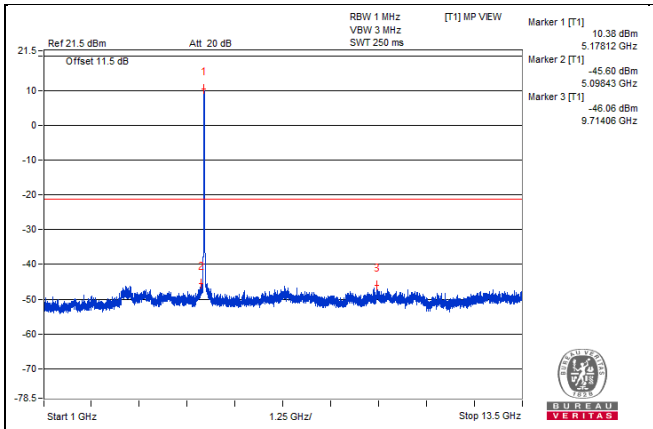
802.11a - Channel 36

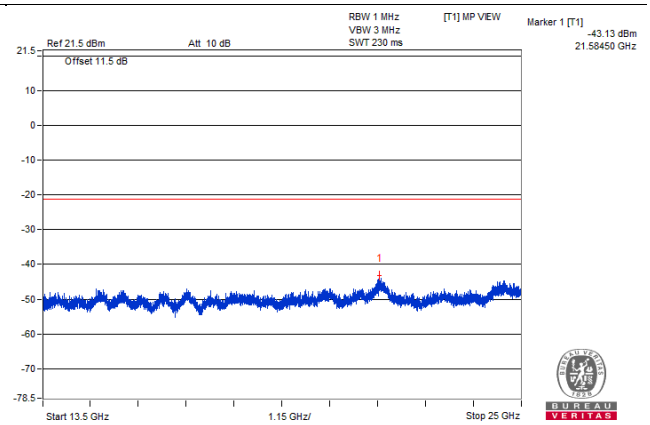
Conducted spurious emission table

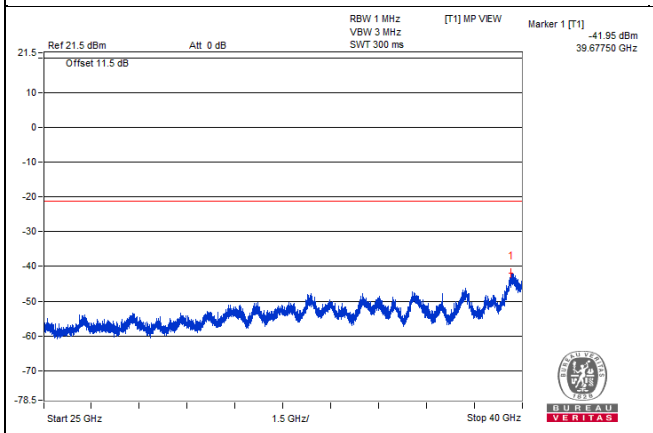
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5178.12 PK	109.47	*		10.38	3.83	14.21
2	5098.43 PK	53.49	74	-20.51	-45.6	3.83	-41.77
3	9714.06 PK	53.03	68.2	-15.17	-46.06	3.83	-42.23
4	21584.5 PK	55.96	68.2	-12.24	-43.13	3.83	-39.3
5	39677.5 PK	57.14	74	-16.86	-41.95	3.83	-38.12
5	5181.25 AV	100.32	*		1.23	3.83	5.06
5	5100 AV	39.82	54	-14.18	-59.27	3.83	-55.44
6	7248.43 AV	30.84	#		-68.25	3.83	-64.42
7	21666.43 AV	42.8	#		-56.29	3.83	-52.46
8	39720.62 AV	45.34	54	-8.66	-53.75	3.83	-49.92

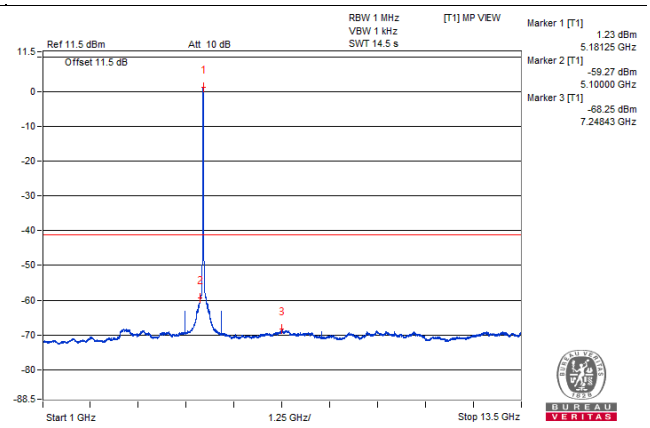
Note :

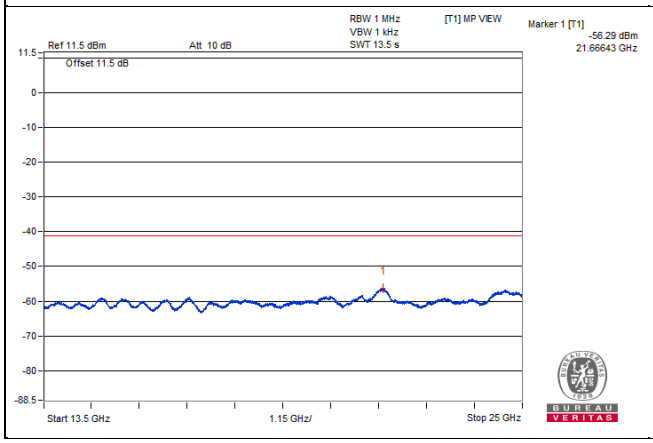
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

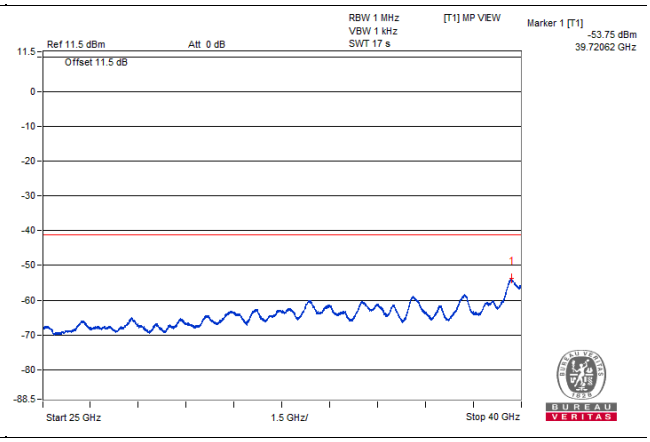

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
10.38 dBm
5.17812 GHz
Marker 2 [T1]
-45.60 dBm
5.09843 GHz
Marker 3 [T1]
-46.06 dBm
9.71406 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.13 dBm
21.58450 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.95 dBm
39.67750 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.23 dBm
5.18125 GHz
Marker 2 [T1]
-59.27 dBm
5.10000 GHz
Marker 3 [T1]
-68.25 dBm
7.24843 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz

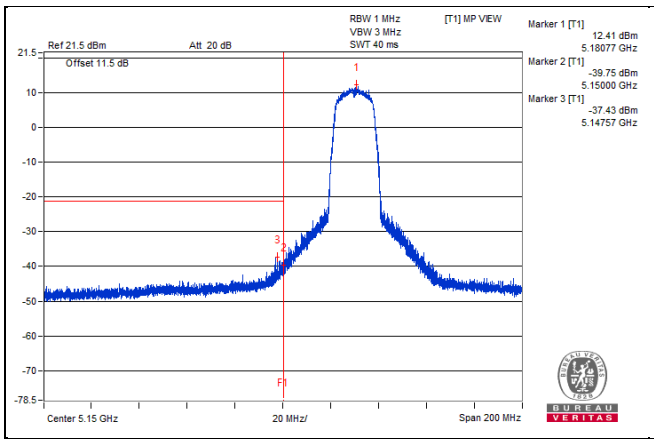

RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.29 dBm
21.66643 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

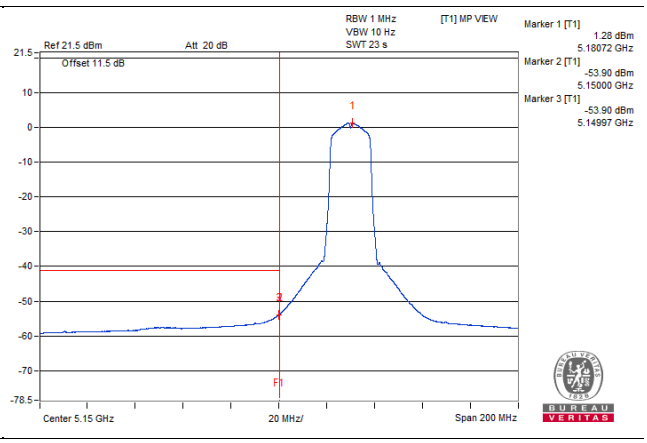

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.75 dBm
39.72062 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5147.57 PK	60.89	74	-13.11	-37.43	3.06	-34.37
2	5149.97 AV	44.42	54	-9.58	-53.9	3.06	-50.84

Note :
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



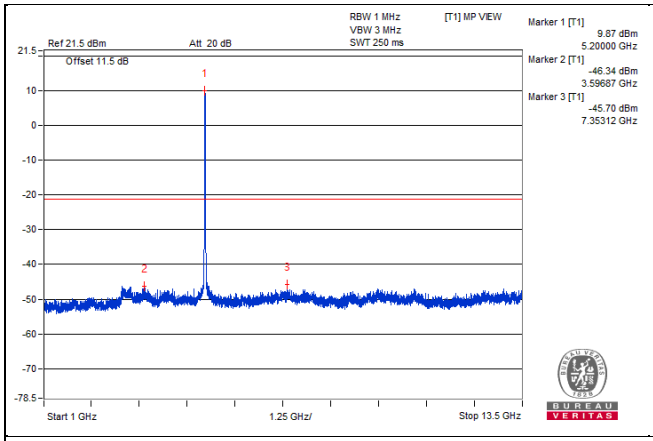


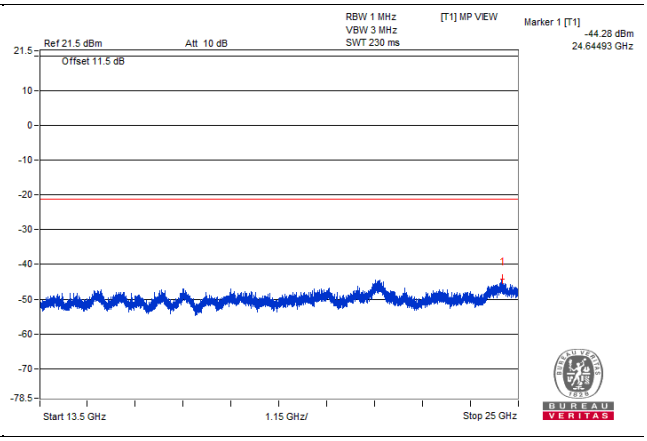
802.11a - Channel 40

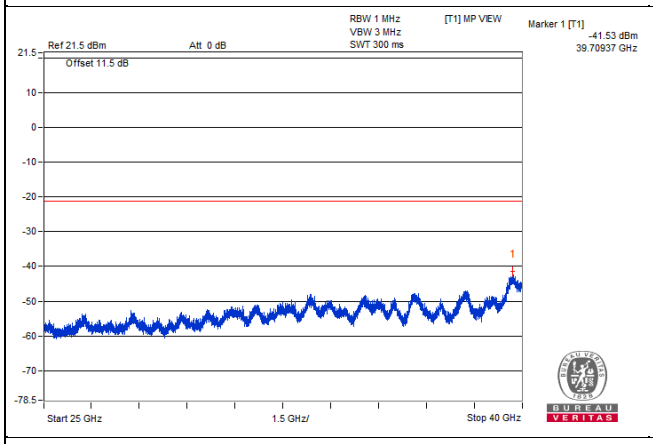
Conducted spurious emission table

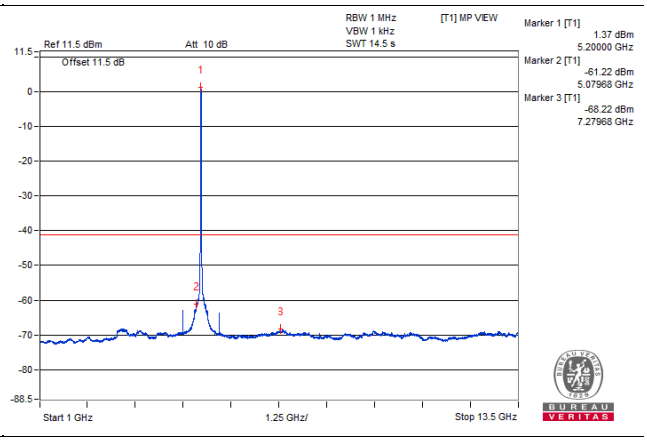
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5200 PK	108.96	*		9.87	3.83	13.7
2	3596.87 PK	52.75	74	-21.25	-46.34	3.83	-42.51
3	7353.12 PK	53.39	74	-20.61	-45.7	3.83	-41.87
4	24644.93 PK	54.81	68.2	-13.39	-44.28	3.83	-40.45
5	39709.37 PK	57.56	74	-16.44	-41.53	3.83	-37.7
6	5200 AV	100.46	*		1.37	3.83	5.2
7	5079.68 AV	37.87	54	-16.13	-61.22	3.83	-57.39
8	7279.68 AV	30.87	54	-23.13	-68.22	3.83	-64.39
9	21657.81 AV	43.01	#		-56.08	3.83	-52.25
10	39692.5 AV	45.14	54	-8.86	-53.95	3.83	-50.12

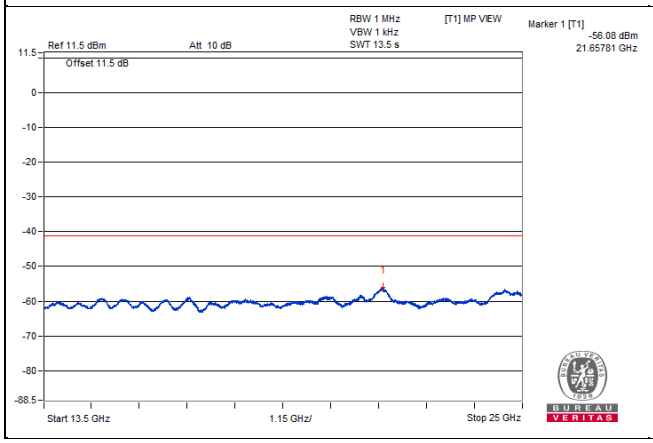
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

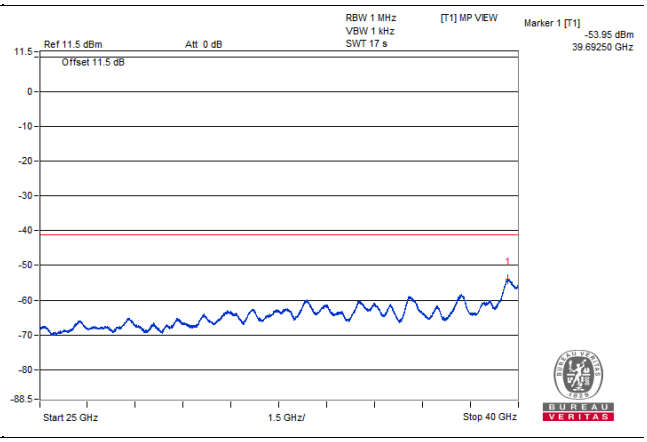

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.87 dBm
5.20000 GHz
Marker 2 [T1]
-46.34 dBm
3.59687 GHz
Marker 3 [T1]
-45.70 dBm
7.35312 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.28 dBm
24.64493 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.53 dBm
39.70937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.37 dBm
5.20000 GHz
Marker 2 [T1]
-61.22 dBm
5.07968 GHz
Marker 3 [T1]
-68.22 dBm
7.27968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz

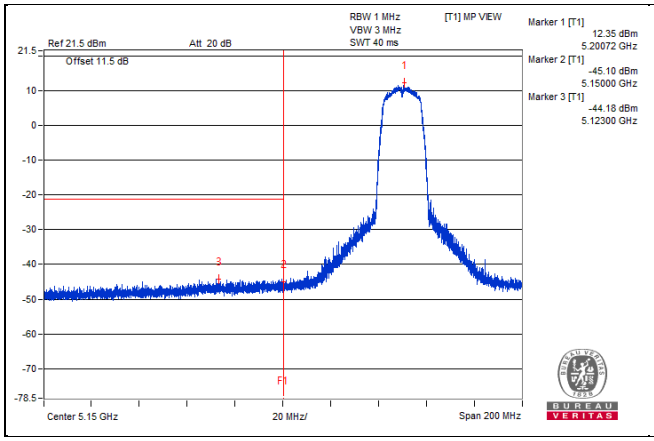

RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.08 dBm
21.65781 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

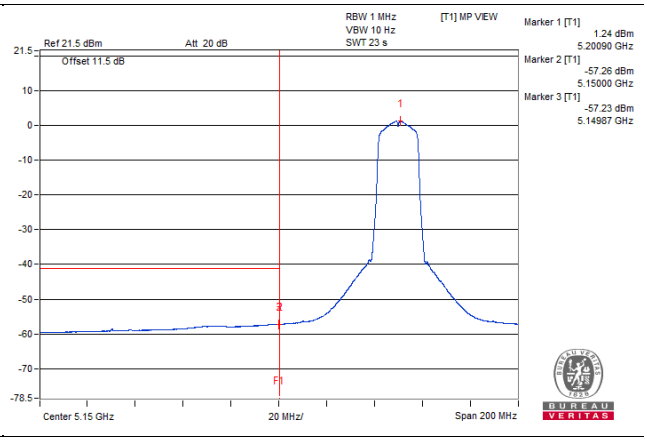

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.95 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5123 PK	54.14	74	-19.86	-44.18	3.06	-41.12
2	5149.87 AV	41.09	54	-12.91	-57.23	3.06	-54.17

Note :
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.





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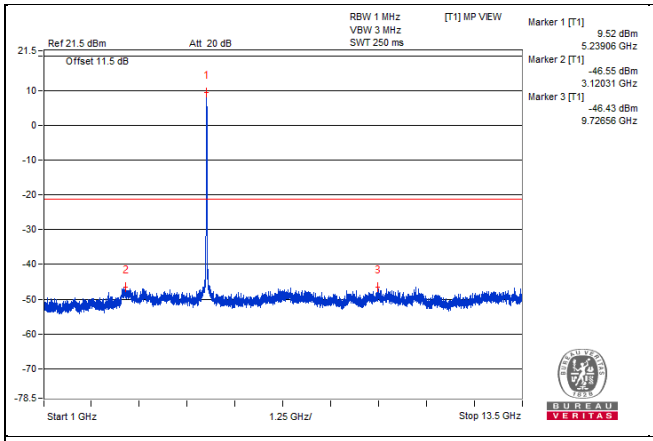
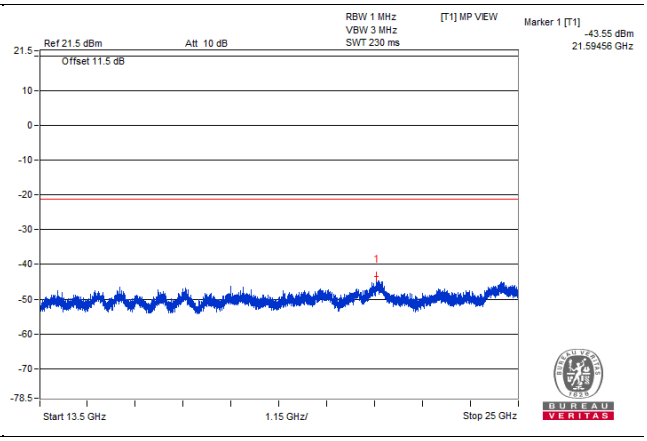
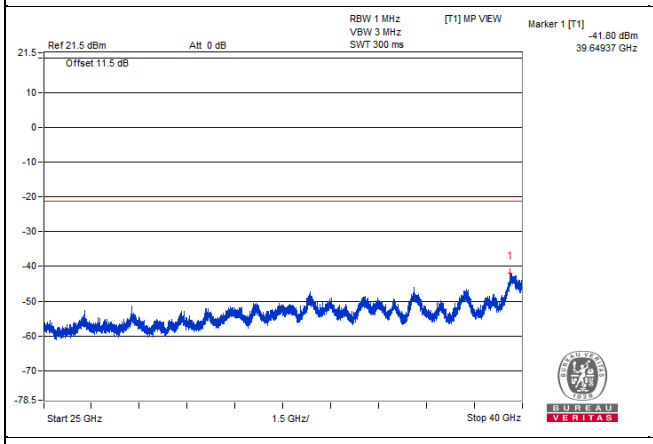
Conducted spurious emission table

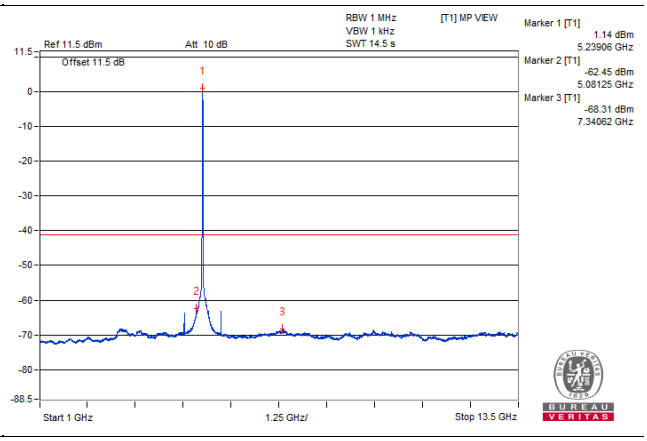
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5239.06 PK	108.61	*		9.52	3.83	13.35
2	3120.31 PK	52.54	68.2	-15.66	-46.55	3.83	-42.72
3	9726.56 PK	52.66	68.2	-15.54	-46.43	3.83	-42.6
4	21594.56 PK	55.54	68.2	-12.66	-43.55	3.83	-39.72
5	39649.37 PK	57.29	74	-16.71	-41.8	3.83	-37.97
6	5239.06 AV	100.23	*		1.14	3.83	4.97
7	5081.25 AV	36.64	54	-17.36	-62.45	3.83	-58.62
8	7340.62 AV	30.78	54	-23.22	-68.31	3.83	-64.48
9	21675.06 AV	42.92	#		-56.17	3.83	-52.34
10	39703.75 AV	45.22	54	-8.78	-53.87	3.83	-50.04

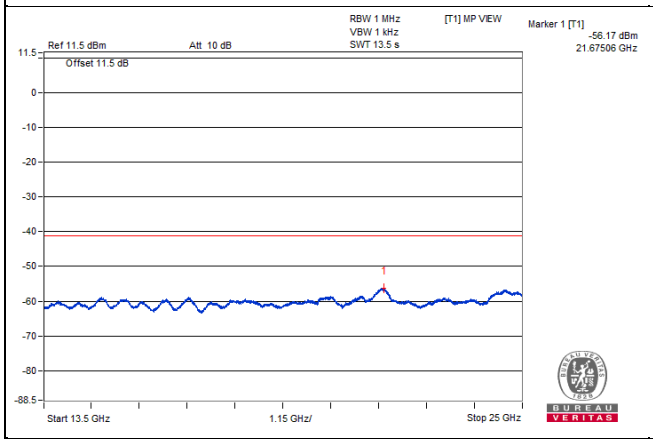
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

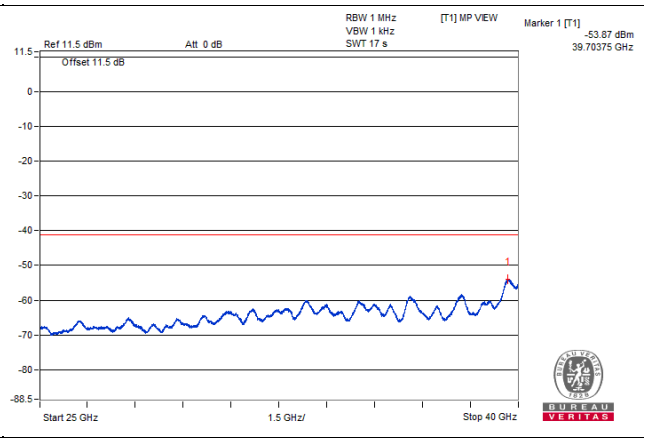

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
9.52 dBm
5.23906 GHz
Marker 2 [T1]
-46.55 dBm
3.12031 GHz
Marker 3 [T1]
-46.43 dBm
9.72656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.55 dBm
21.59456 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-41.80 dBm
39.64937 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.14 dBm
5.23906 GHz
Marker 2 [T1]
-62.45 dBm
5.08125 GHz
Marker 3 [T1]
-68.31 dBm
7.34062 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz

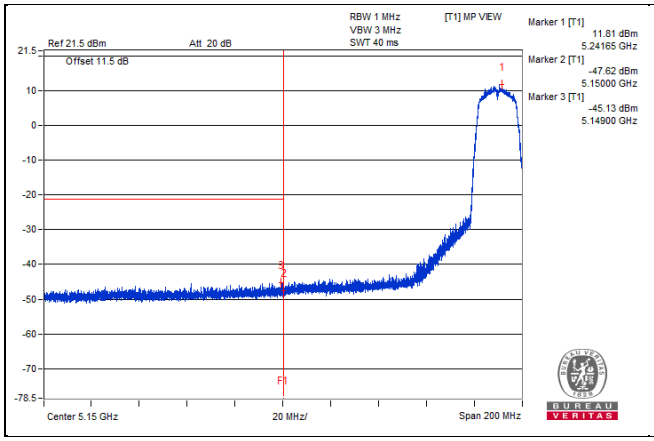

RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.17 dBm
21.67506 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

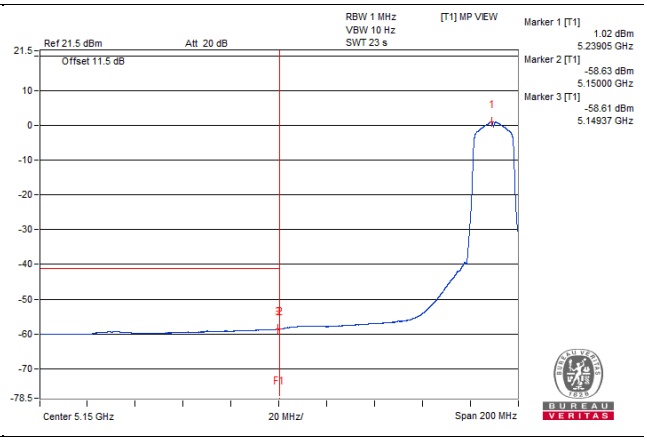

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.87 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149 PK	53.19	74	-20.81	-45.13	3.06	-42.07
2	5149.37 AV	39.71	54	-14.29	-58.61	3.06	-55.55

Note :
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



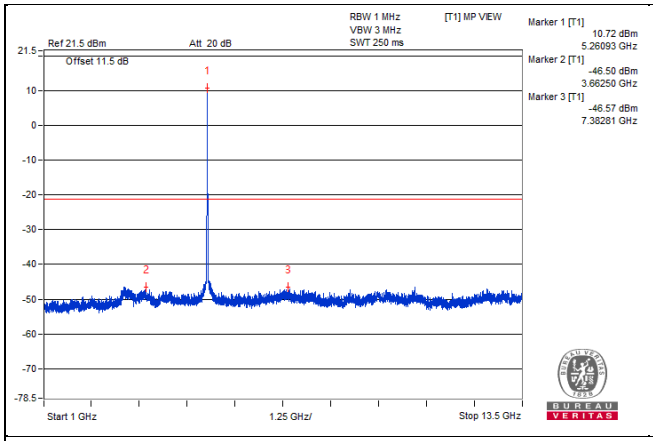


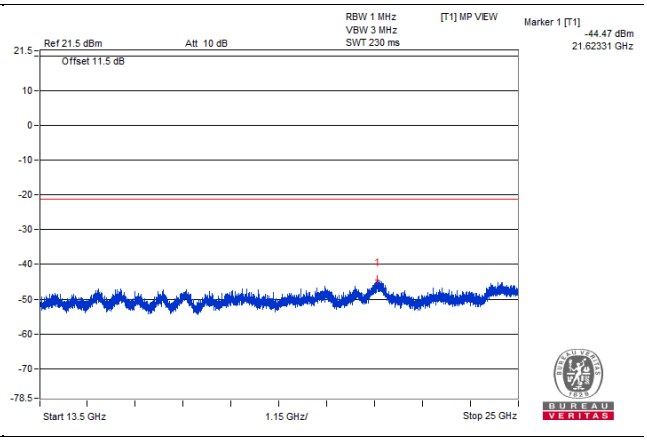
802.11a - Channel 52

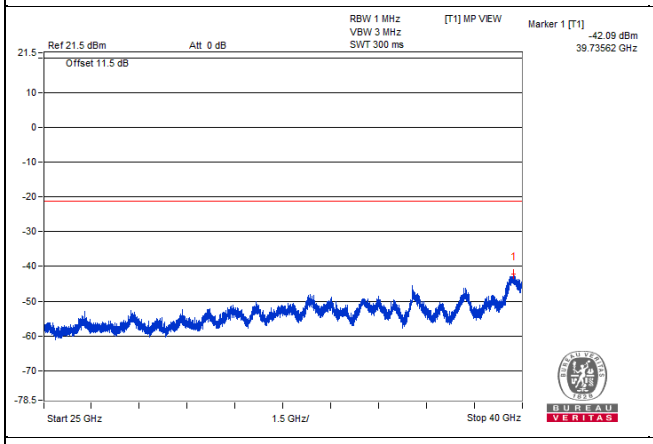
Conducted spurious emission table

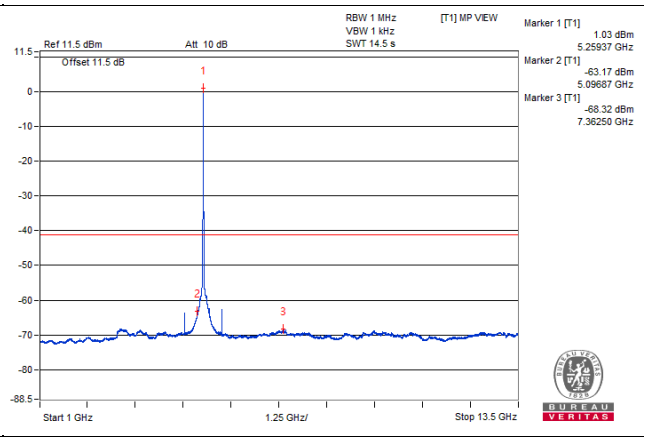
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5260.93 PK	109.81	*		10.72	3.83	14.55
2	3662.5 PK	52.59	74	-21.41	-46.5	3.83	-42.67
3	7382.81 PK	52.52	74	-21.48	-46.57	3.83	-42.74
4	21623.31 PK	54.62	68.2	-13.58	-44.47	3.83	-40.64
5	39735.62 PK	57	74	-17	-42.09	3.83	-38.26
6	5259.37 AV	100.12	*		1.03	3.83	4.86
7	5096.87 AV	35.92	54	-18.08	-63.17	3.83	-59.34
8	7362.5 AV	30.77	54	-23.23	-68.32	3.83	-64.49
9	21663.56 AV	42.85	#		-56.24	3.83	-52.41
10	39703.75 AV	45.23	54	-8.77	-53.86	3.83	-50.03

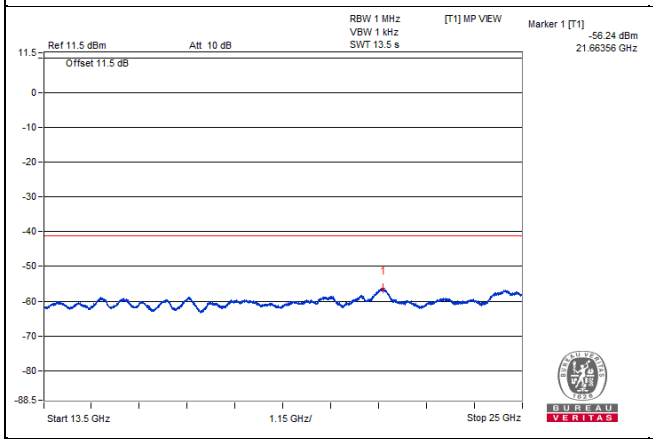
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

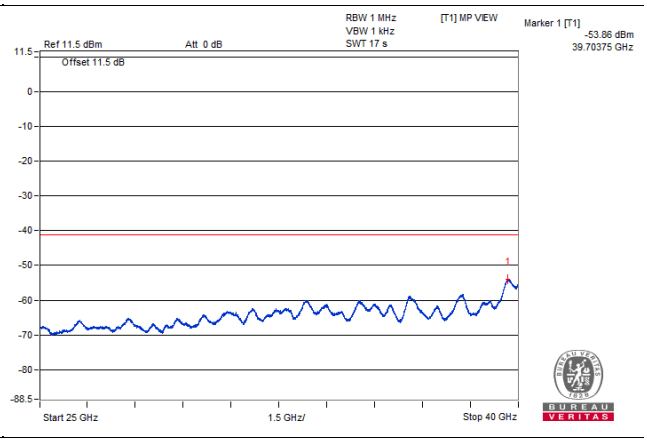

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
10.72 dBm
5.26093 GHz
Marker 2 [T1]
-46.50 dBm
3.66250 GHz
Marker 3 [T1]
-46.57 dBm
7.38281 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.47 dBm
21.62331 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.09 dBm
39.73562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.03 dBm
5.25937 GHz
Marker 2 [T1]
-63.17 dBm
5.09687 GHz
Marker 3 [T1]
-68.32 dBm
7.36250 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz

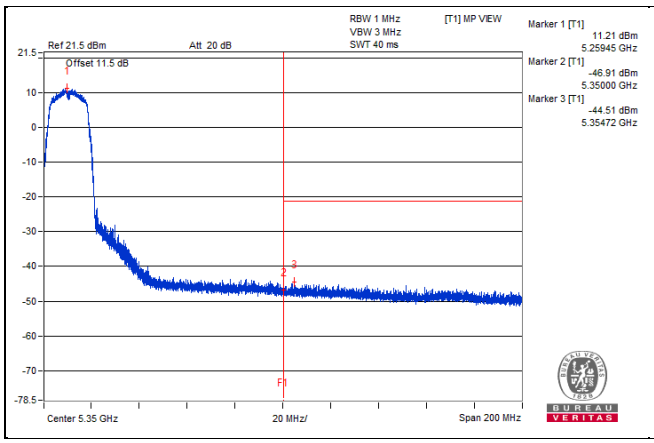

RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.24 dBm
21.66356 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

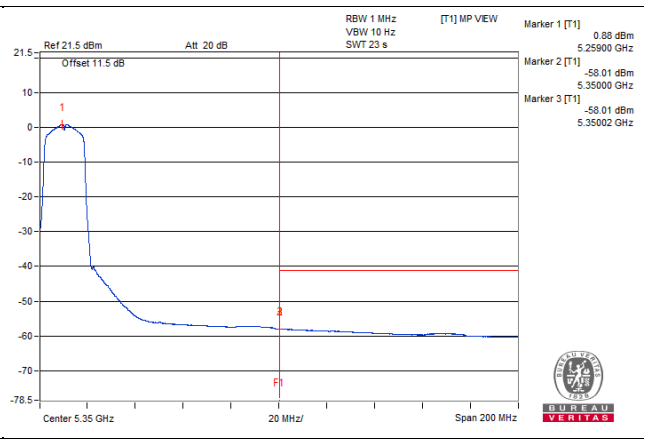

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.86 dBm
39.70375 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5354.72 PK	54.19	74	-19.81	-44.51	3.44	-41.07
2	5350.02 AV	40.69	54	-13.31	-58.01	3.44	-54.57

Note :
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



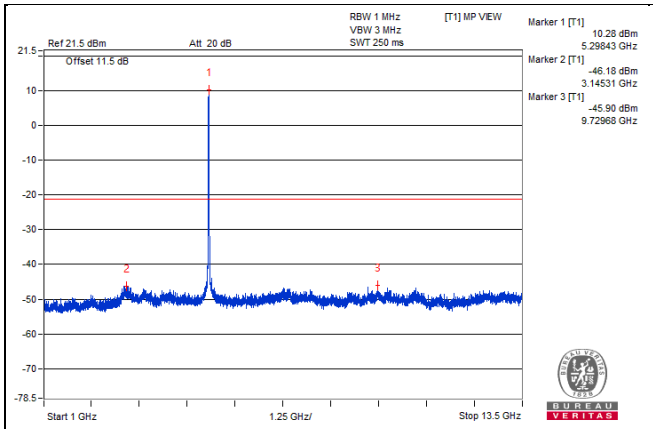


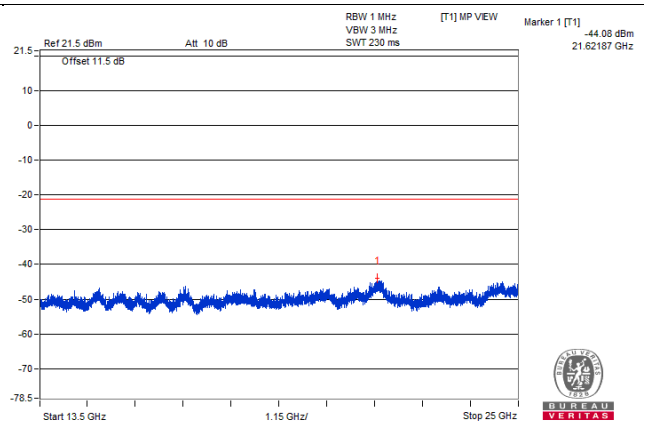
802.11a - Channel 60

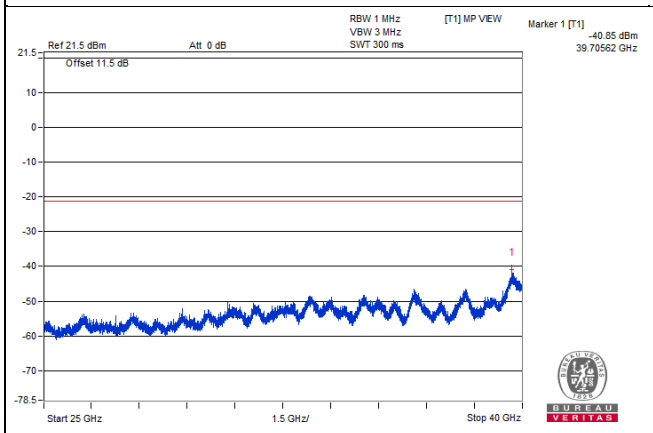
Conducted spurious emission table

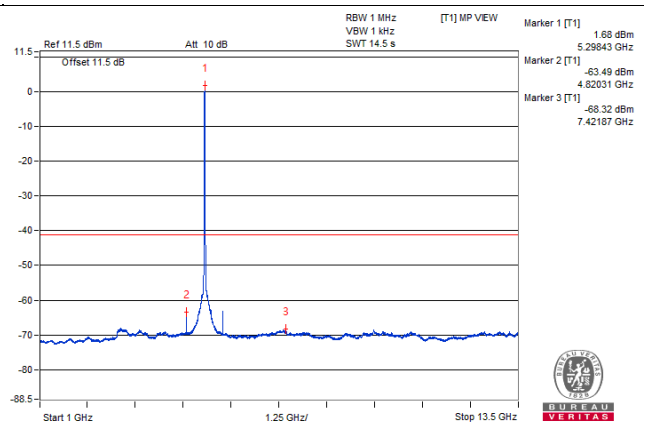
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5298.43 PK	109.37	*		10.28	3.83	14.11
2	3145.31 PK	52.91	68.2	-15.29	-46.18	3.83	-42.35
3	9729.68 PK	53.19	68.2	-15.01	-45.9	3.83	-42.07
4	21621.87 PK	55.01	68.2	-13.19	-44.08	3.83	-40.25
5	39705.62 PK	58.24	74	-15.76	-40.85	3.83	-37.02
6	5298.43 AV	100.77	*		1.68	3.83	5.51
7	4820.31 AV	35.6	54	-18.4	-63.49	3.83	-59.66
8	7421.87 AV	30.77	54	-23.23	-68.32	3.83	-64.49
9	21624.75 AV	42.98	#		-56.11	3.83	-52.28
10	39692.5 AV	45.23	54	-8.77	-53.86	3.83	-50.03

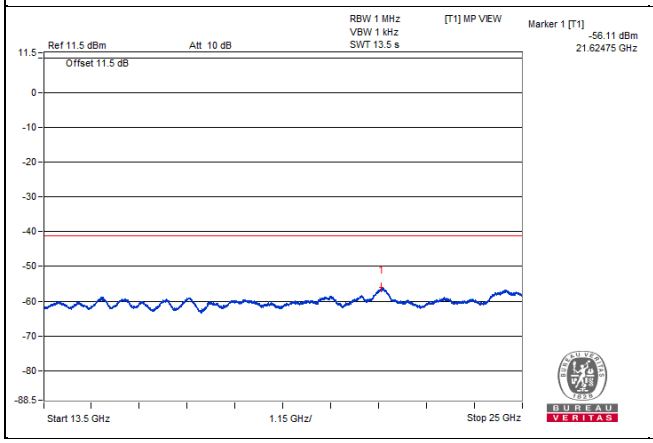
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

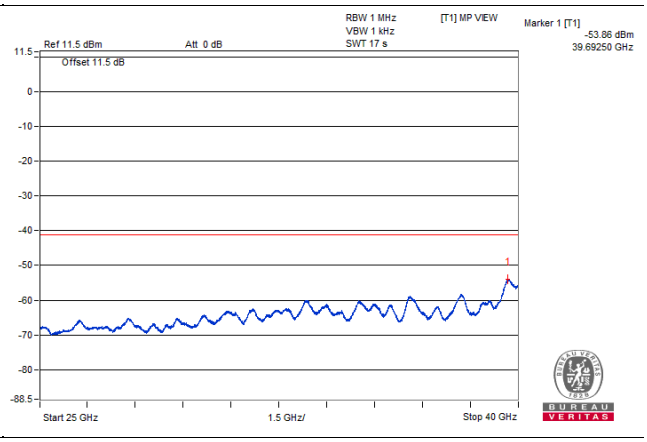

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
10.28 dBm
5.29843 GHz
Marker 2 [T1]
-46.18 dBm
3.14531 GHz
Marker 3 [T1]
-45.90 dBm
9.72968 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-44.08 dBm
21.62187 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-40.85 dBm
39.70562 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.68 dBm
5.29843 GHz
Marker 2 [T1]
-63.49 dBm
4.82031 GHz
Marker 3 [T1]
-68.32 dBm
7.42187 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz

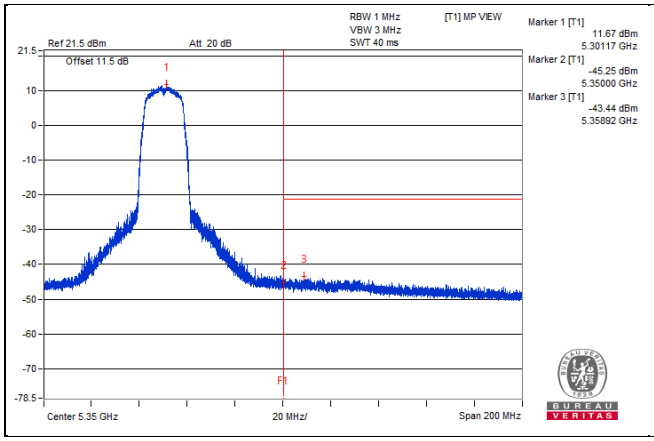

RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.11 dBm
21.62475 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz

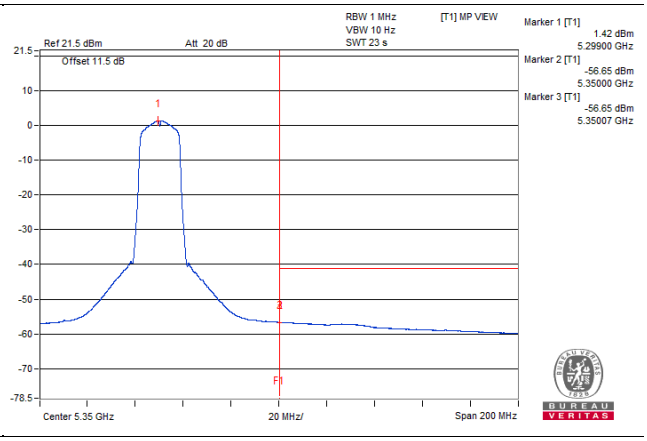

RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.86 dBm
39.69250 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5358.92 PK	55.26	74	-18.74	-43.44	3.44	-40
2	5350.07 AV	42.05	54	-11.95	-56.65	3.44	-53.21

Note :
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



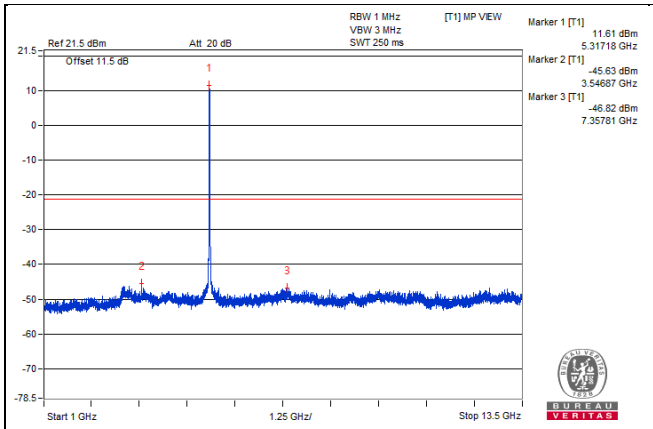


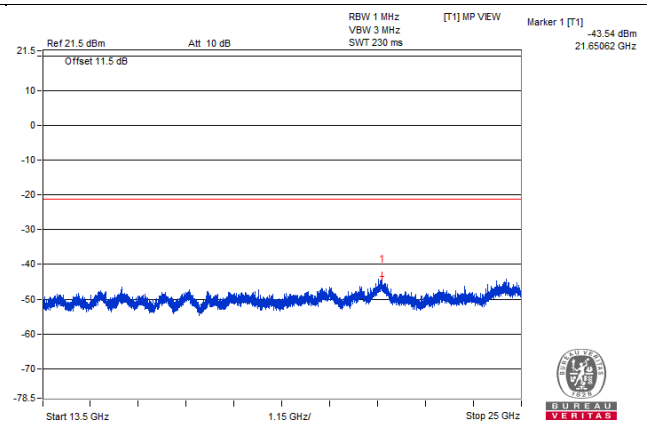
802.11a - Channel 64

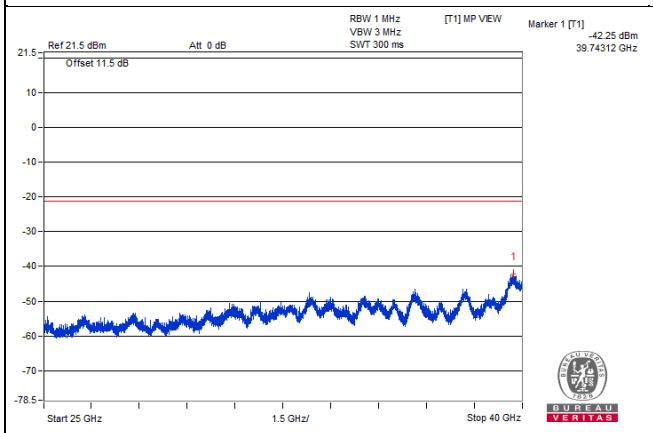
Conducted spurious emission table

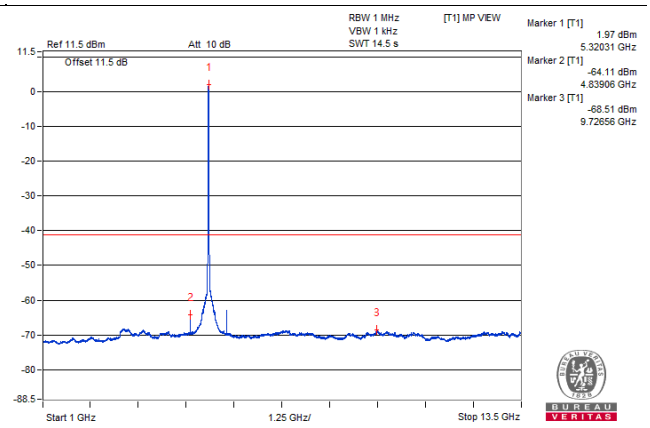
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5317.18 PK	110.7	*		11.61	3.83	15.44
2	3546.87 PK	53.46	74	-20.54	-45.63	3.83	-41.8
3	7357.81 PK	52.27	74	-21.73	-46.82	3.83	-42.99
4	21650.62 PK	55.55	68.2	-12.65	-43.54	3.83	-39.71
5	39743.12 PK	56.84	74	-17.16	-42.25	3.83	-38.42
6	5320.31 AV	101.06	*		1.97	3.83	5.8
7	4839.06 AV	34.98	54	-19.02	-64.11	3.83	-60.28
8	9726.56 AV	30.58	#		-68.51	3.83	-64.68
9	21626.18 AV	42.98	#		-56.11	3.83	-52.28
10	39698.12 AV	45.37	54	-8.63	-53.72	3.83	-49.89

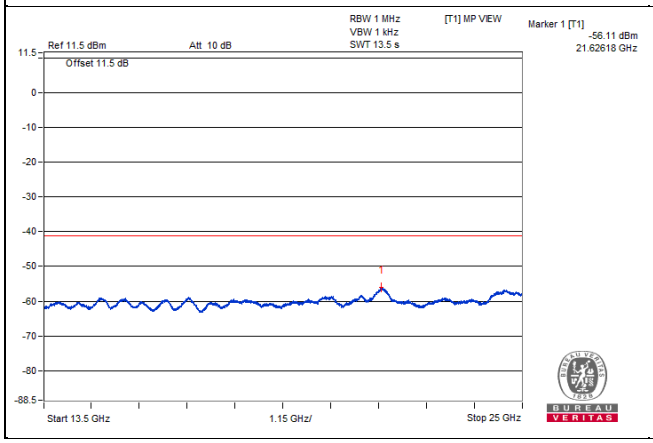
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

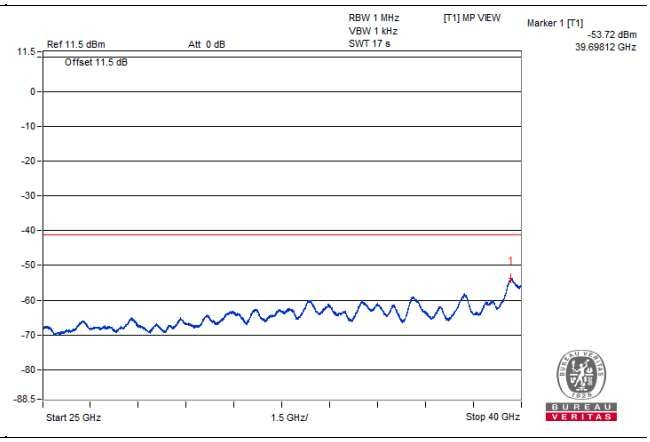

RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
11.61 dBm
5.31718 GHz
Marker 2 [T1]
-45.63 dBm
3.54687 GHz
Marker 3 [T1]
-46.82 dBm
7.35781 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.54 dBm
21.65062 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.25 dBm
39.74312 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz


RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
1.97 dBm
5.32031 GHz
Marker 2 [T1]
-64.11 dBm
4.83906 GHz
Marker 3 [T1]
-68.51 dBm
9.72656 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz


RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.11 dBm
21.62618 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz


RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.72 dBm
39.69812 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz