



TEST REPORT

REPORT NUMBER: I21W00049-WLAN_2.4G_Rev1

ON

Type of Equipment: BaseStation
Type of Designation: AIRE100A
Brand Name: PRIME
Manufacturer: Micron Electronics LLC.
FCC ID: ZKQ-BAS4GA

ACCORDING TO

FCC Part 15, Subpart C, 2020:

15.205 Restricted bands of operation,

15.209 Radiated emission limits; general requirements,

15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz

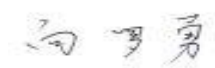
ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of
Unlicensed Wireless Devices

Chongqing Academy of Information and Communications Technology

Month date, year

Feb 14, 2022

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report.
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Report No.: I21W00049-WLAN_2.4G_Rev1

Revision Version

Report Number	Revision	Date	Memo
I21W00049-WLAN_2.4G	00	2022-01-10	Initial creation of test report
I21W00049-WLAN_2.4G_Rev1	01	2022-02-14	Second creation of test report

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
	No.19 East Road, Xiantao Big-data Valley, Yubei District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

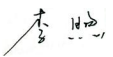
1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2021-12-14
Testing End Date:	2021-01-09

1.4. Signature

	2022-01-10
LiXu (Prepared this test report)	Date
	2022-01-10
ChenWen (Reviewed this test report)	Date
	2022-01-10
XiangLuoYong Director of the laboratory (Approved this test report)	Date

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2. Client Information

2.1. Applicant Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 888 538 3489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

2.2. Manufacturer Information

Company Name:	--
Address /Post:	--
City:	--
Country:	--
Telephone:	--
Fax:	--
Email:	--
Contact Person:	--

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Micron Electronics LLC.
Model name	AIRE100A
Brand name	PRIME
WLAN Frequency	2400MHz-2483.5MHz
Antenna description	Internal Antenna
Antenna Gain	2dBi
Extreme Temperature	-20/+55°C
Nominal Voltage	3.8
Extreme High Voltage	4.2
Extreme Low Voltage	3.5

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S1	860371050880503	A106_V3	LS100AV05.01B04.I01	2021-12-08
S2	865171050693608	A106_V3	LS100AV05.01B04.I01	2021-10-27

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

The BaseStation, referred to as “EUT” hereafter, is a multi-Band Wireless communication module operating on the Wi-Fi/BLUETOOTH networks. The table below shows the supported bands for the EUT.

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
WLAN	2.4G	2400-2483.5		--

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3.4. Internal Identification of AE used during the test

AE ID*	Description	*
AE1	RF cable	--
AE2	Antenna 1	2dBi

*AE ID: is used to identify the test sample in the lab internally.

*: is provided customer.

3.5. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203 , an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device .

Refer to statement below for compliance .

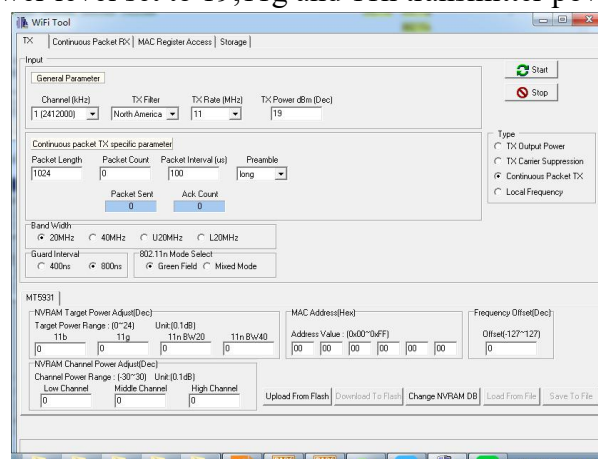
The manufacturer may design the unit so that the user can replace a broken antenna , but the use of a standard antenna jack or electrical connector is prohibited . Further , this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna. It conforms to the standard requirements. The directional gains of Internal Antenna used for transmitting is 2.0dBi.

3.6. EUT Test RF Confagle Configuration

EUT uses tool to control emission measurement,Change power level, channel, rate and HT .11b transmitter power level set to 19,11g and 11n transmitter power level set to 16



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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart C, 2020	Restricted bands of operation,	2020
FCC Part 15, Subpart C, 2020	Radiated emission limits; general requirements,	2020
FCC Part 15, Subpart C, 2020	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz	2020
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Date	Cal.Due Date
1	spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2021-05-12	2022-06-11
2	DC Power Supply	N6705B	MY50000919	--	--	Agilent	2021-05-12	2022-06-11

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Date	Cal.Due Date
1	Test Receiver	ESU 26	100367	01	4.43 SP3	R&S	2021-06-11	2022-06-11
2	Ultra-wideband Log Periodic Antenna	VULB 9163	01392	--	--	Schwarzbeck	2021-02-05	2023-03-04
3	Double Ridged Guide Antenna	HF907	100357	--	--	Schwarzbeck	2021-01-11	2023-02-10
4	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2021-05-12	2022-06-11
5	Horn Antenna	DATE 1152	LM7127	--	--	ETS	2020-07-15	2022-08-16
6	Test Receiver	ECSI	102477	00	4.42 SP2	R&S	2021-05-12	2022-06-11
7	Artificial Main Network	ENV 216	101128	--	--	R&S	2021-05-12	2022-06-11
8	Loop Antenna	6502	00143163	--	--	ETS	2020-07-16	2022-08-15

5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal. Date	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2021-05-12	2022-06-11
2	Fully anechoic chamber	FAC-5	--	TDK	2020-07-31	2024-08-30
3	Semi-anechoic chamber	FAC-10	--	TDK	2020-07-29	2024-08-28
4	Fully anechoic chamber	--	--	ETS	2020-05-25	2022-06-25

5.4. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
-----	------	------	----	-------------	--------------

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Anechoic chamber

Fully anechoic chamber by TDK.

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	EMC32	V10.20.10	--	R&S
3	EMC32	V 8.51.0	--	R&S

6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
FCC Part 15.247(b)	Maximum Peak Output Power	Pass
FCC CFR Part 15.247(e)	Peak Power Spectral Density	Pass
FCC 47 CFR Part 15.247(a)	6dB Occupied Bandwidth	Pass
FCC 47 CFR Part 15.209 & part 15.205	Band Edges Compliance	Pass
FCC 47 CFR Part 15.247 (d)	Transmitter Spurious Emission-Conducted	Pass
FCC 47 CFR Part 15.247, 15.205, 15.209	Transmitter Spurious Emission-Radiated	Pass
ANSI C63.10 voltage mains test	Power line Conducted Emissions	Pass
Note:--		

6.2. Maximum Peak Output Power

Specifications:	FCC Part 15.247(b)
DUT Serial Number:	865171050693608
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz: 1 watt.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Measurement Uncertainty:

Measurement Uncertainty	$\pm 1.0\text{dB}$
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Test Method1:

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set the RBW $\geq$ DTS bandwidth
4. Set VBW $\geq [3 \times \text{RBW}]$.
5. Set span $\geq [3 \times \text{RBW}]$.
6. Sweep time = auto couple.
7. Detector = peak.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.

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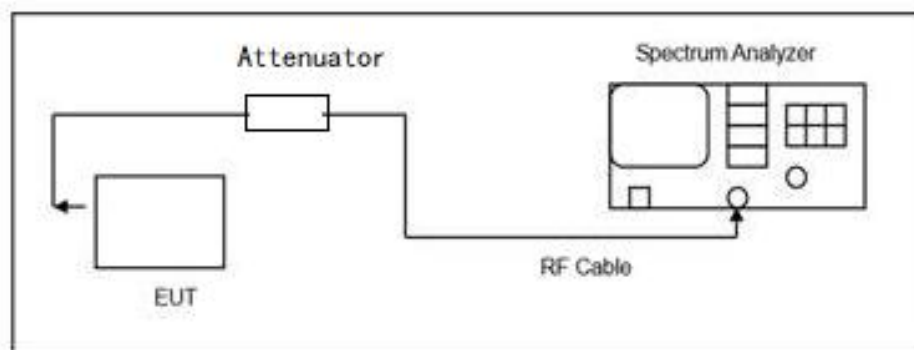
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10. Use peak marker function to determine the peak amplitude level.

Test Method2:

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set the RBW = 1 MHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Set the span $\geq [1.5 \times \text{DTS bandwidth}]$.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

Note: --

Test block diagram:**Chongqing Academy of Information and Communication Technology**

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Measurement Results:
802.11b/g mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11b	1	9.02	8.39	7.57	Pass
	2	8.79	8.31	7.58	Pass
	5.5	8.65	8.25	7.45	Pass
	11	8.85	8.22	7.71	Pass
802.11g	6	21.48	20.01	19.97	Pass
	9	20.84	19.72	19.64	Pass
	12	19.72	19.12	19.08	Pass
	18	19.55	19.12	19.15	Pass
	24	20.04	19.92	18.63	Pass
	36	20.30	19.72	18.89	Pass
	48	19.88	19.62	18.60	Pass
	54	20.33	19.42	19.05	Pass

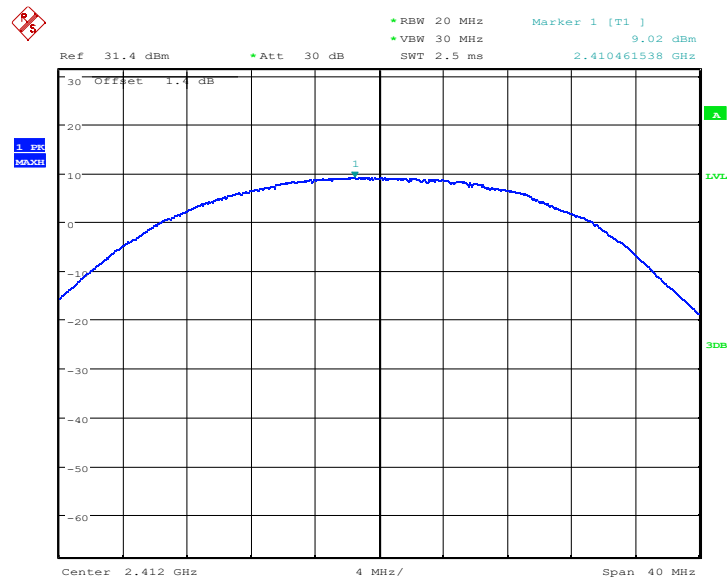
802.11n mode

Mode	Data Rate(Mbps)	Teat Result(dBm)			Conclusion
		Ch1	Ch6	Ch11	
802.11n (20MHz)	MCS0	21.36	20.37	20.43	Pass
	MCS1	19.53	18.75	18.82	Pass
	MCS2	19.50	19.08	18.84	Pass
	MCS3	19.91	18.98	18.76	Pass
	MCS4	18.94	19.69	19.10	Pass
	MCS5	19.25	18.81	18.34	Pass
	MCS6	19.68	18.93	18.38	Pass
	MCS7	19.90	19.02	19.33	Pass

Conclusion: PASS
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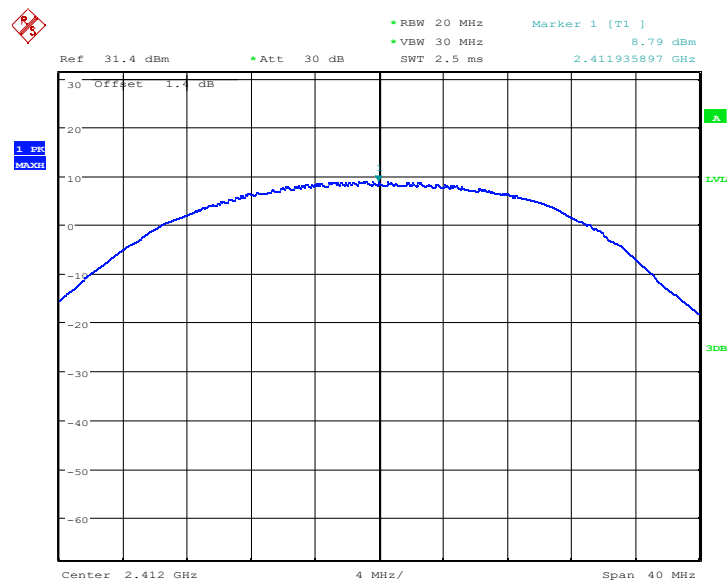
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Test figure as below:



Date: 14.DEC.2021 23:56:41

Fig.1 Peak Conducted Output Power CH1, 11b, Rate1

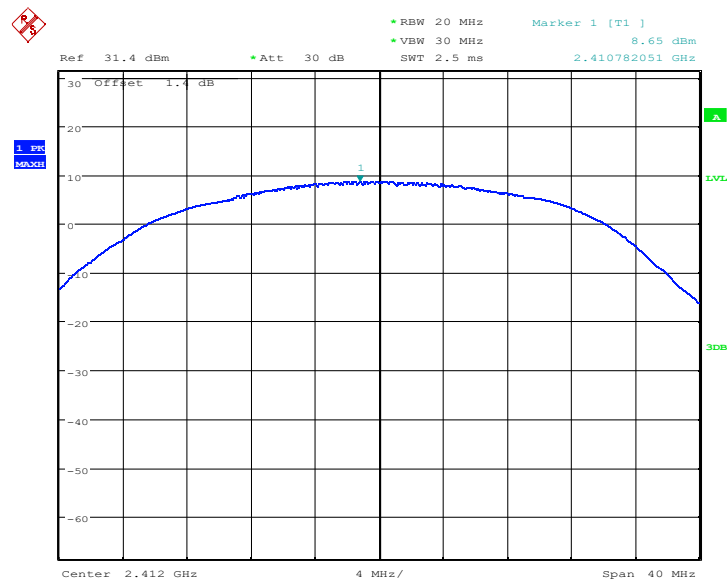


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Fig.2 Peak Conducted Output Power CH1, 11b, Rate2

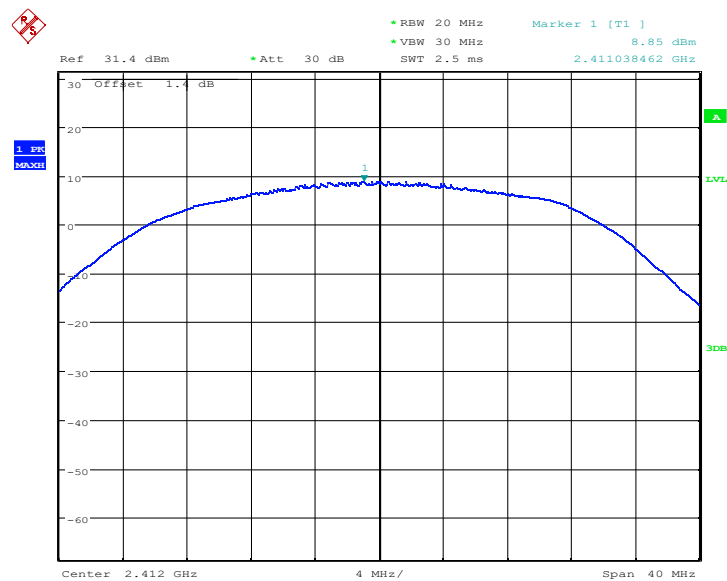
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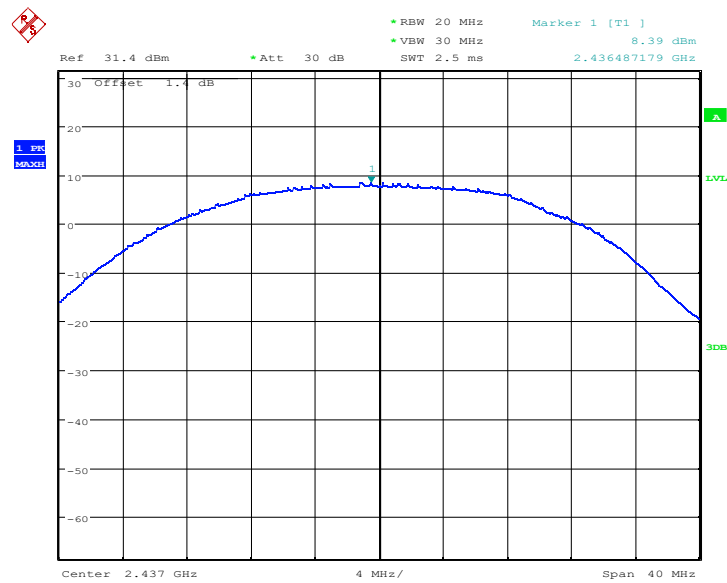
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Fig.3 Peak Conducted Output Power CH1, 11b, Rate5.5



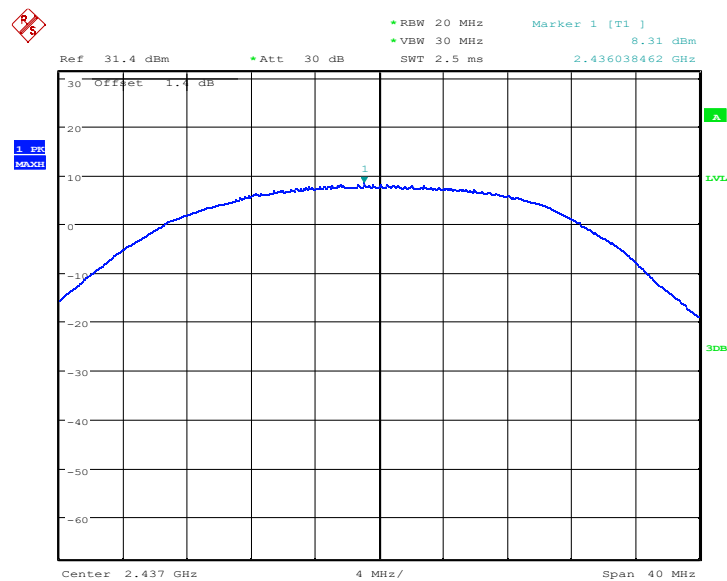
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Fig.4 Peak Conducted Output Power CH1, 11b, Rate11



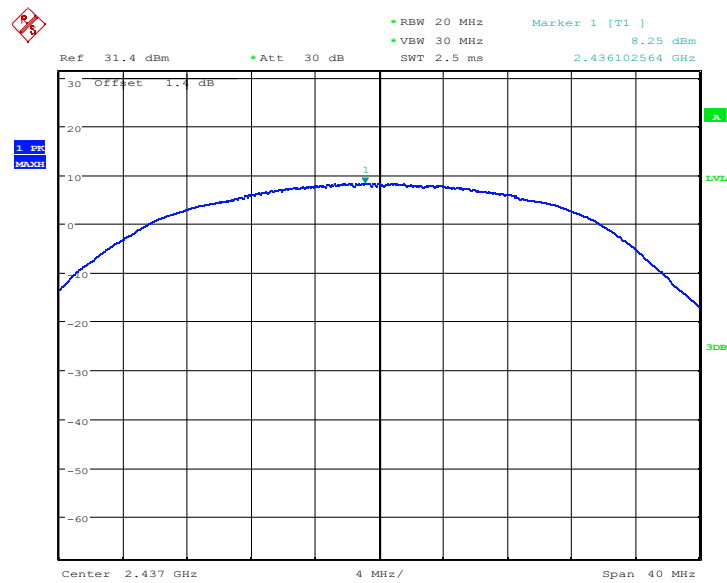
Date: 14.DEC.2021 23:58:56

Fig.5 Peak Conducted Output Power CH6, 11b, Rate1



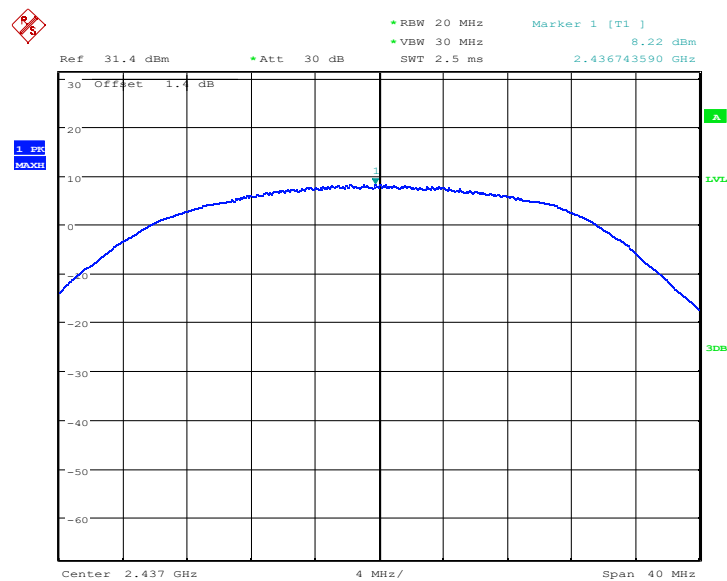
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Fig.6 Peak Conducted Output Power CH6, 11b, Rate2



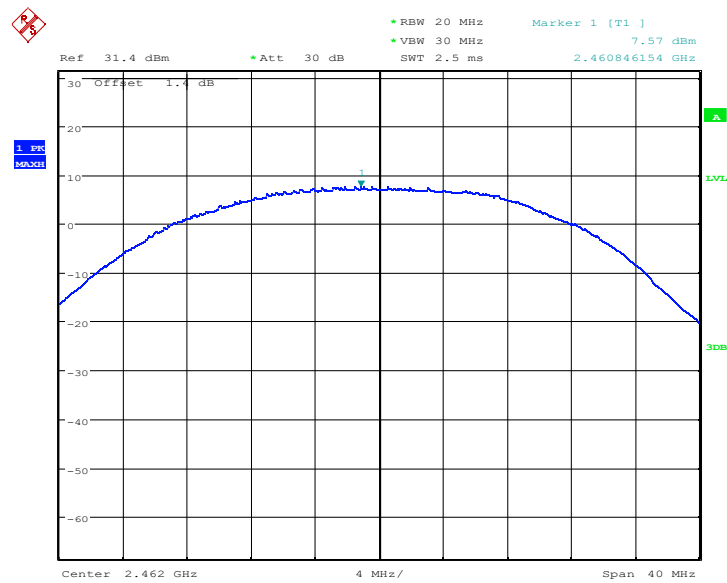
Date: 14.DEC.2021 23:58:18

Fig.7 Peak Conducted Output Power CH6, 11b, Rate5.5



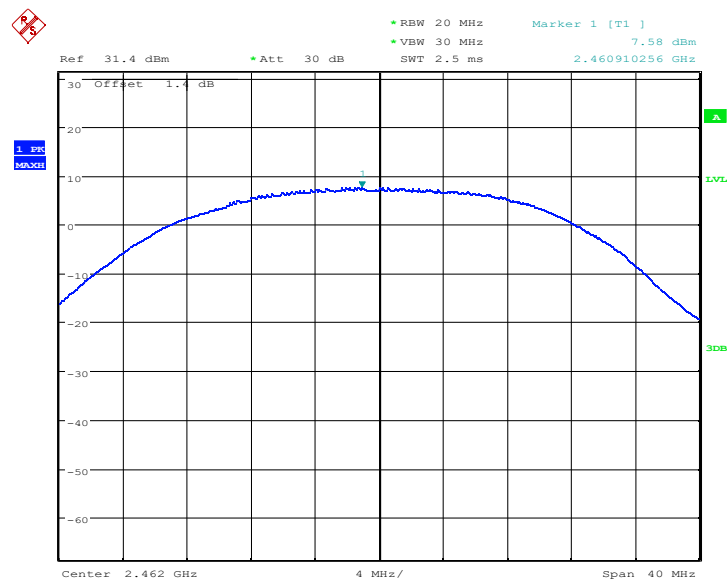
Date: 14.DEC.2021 23:58:32

Fig.8 Peak Conducted Output Power CH6, 11b, Rate11



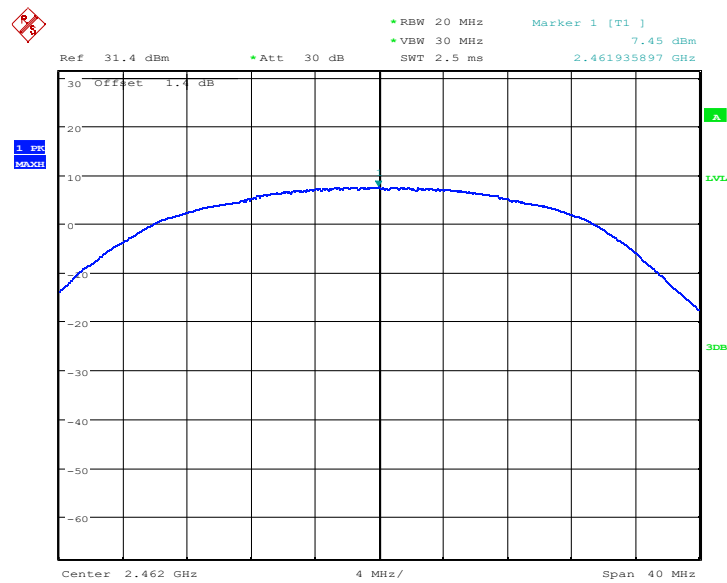
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Fig.9 Peak Conducted Output Power CH11, 11b, Rate1



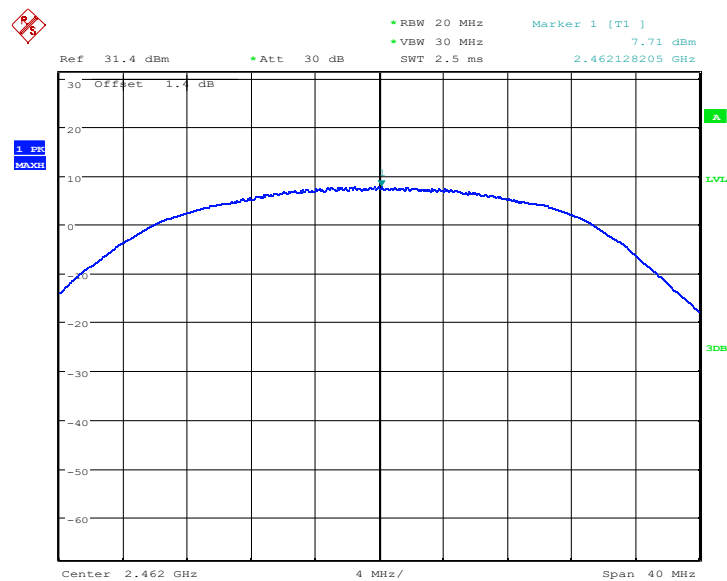
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Fig.10 Peak Conducted Output Power CH11, 11b, Rate2



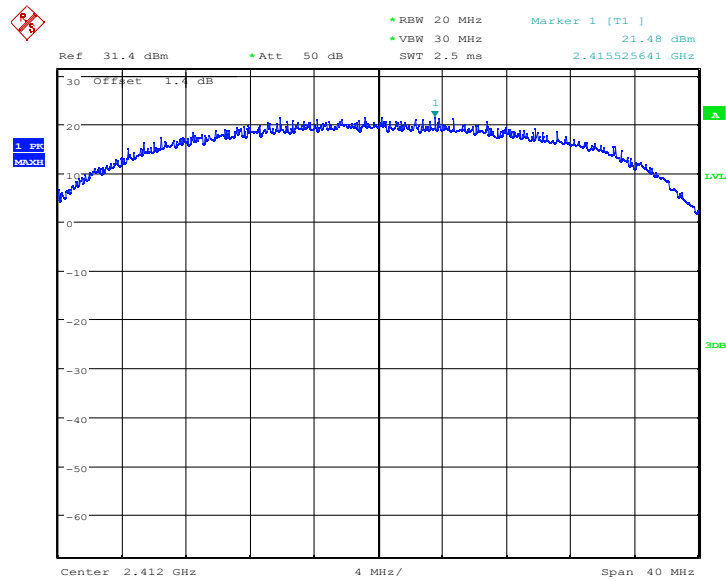
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Fig.11 Peak Conducted Output Power CH11, 11b, Rate5.5



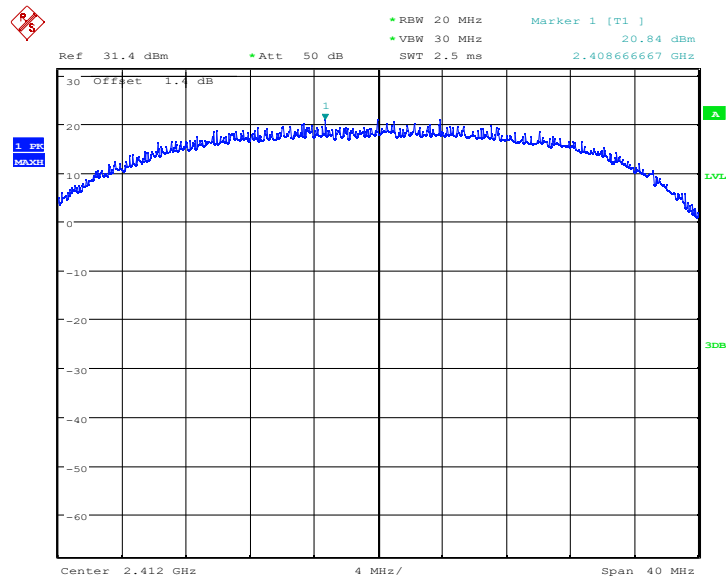
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Fig.12 Peak Conducted Output Power CH11, 11b, Rate11



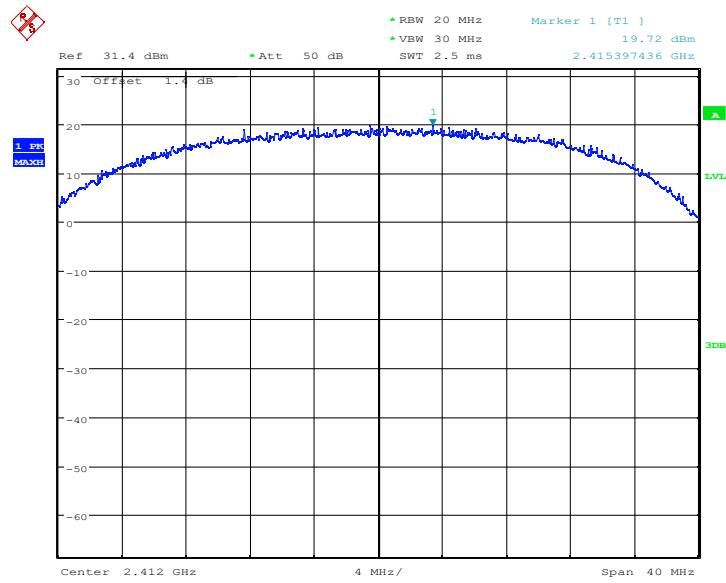
Date: 15.DEC.2021 00:01:30

Fig.13 Peak Conducted Output Power CH1, 11g, Rate6



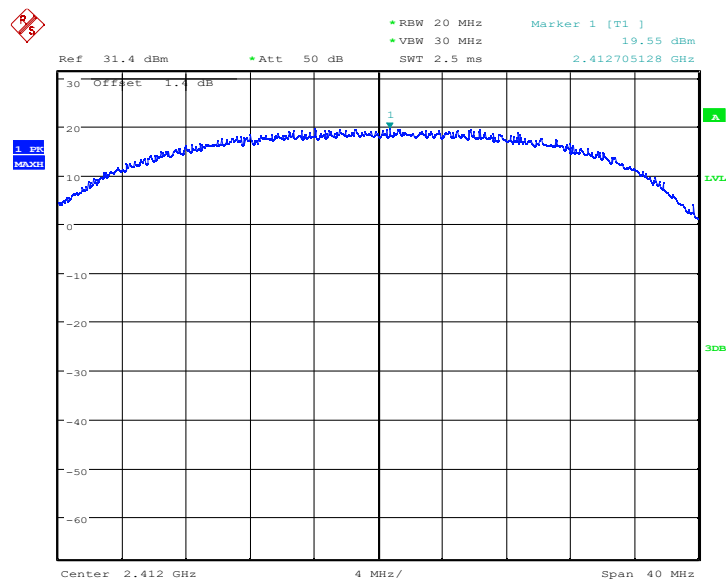
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Fig.14 Peak Conducted Output Power CH1, 11g, Rate9



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Fig.15 Peak Conducted Output Power CH1, 11g, Rate12

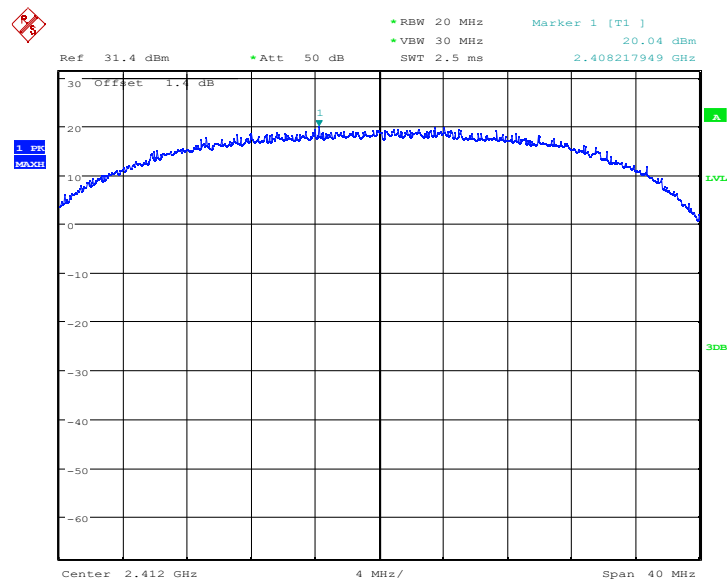


Date: 15.DEC.2021 00:02:10

Fig.16 Peak Conducted Output Power CH1, 11g, Rate18

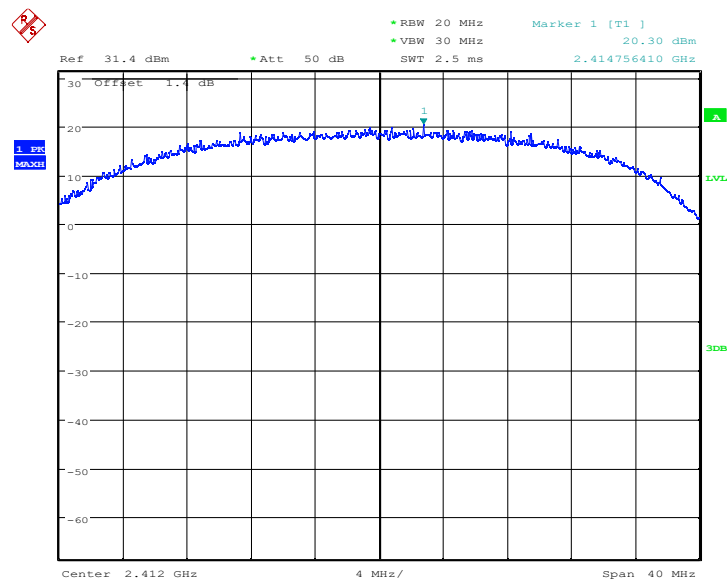
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Date: 15.DEC.2021 00:02:21

Fig.17 Peak Conducted Output Power CH1, 11g, Rate24

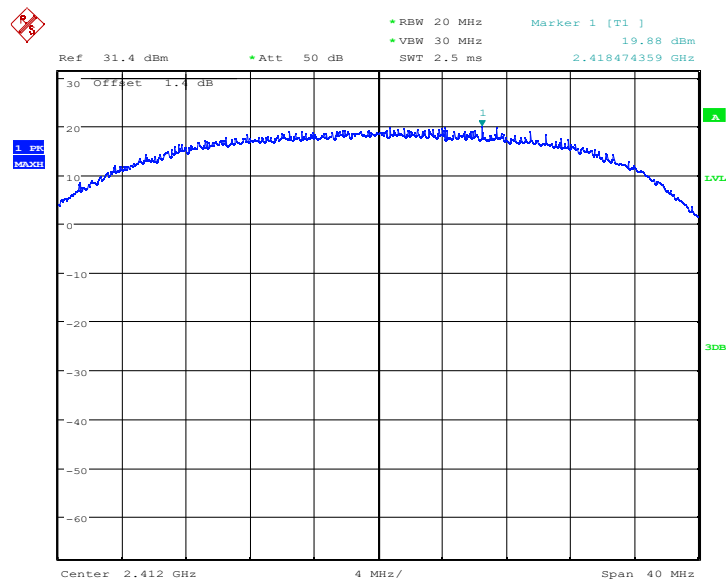


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Fig.18 Peak Conducted Output Power CH1, 11g, Rate36

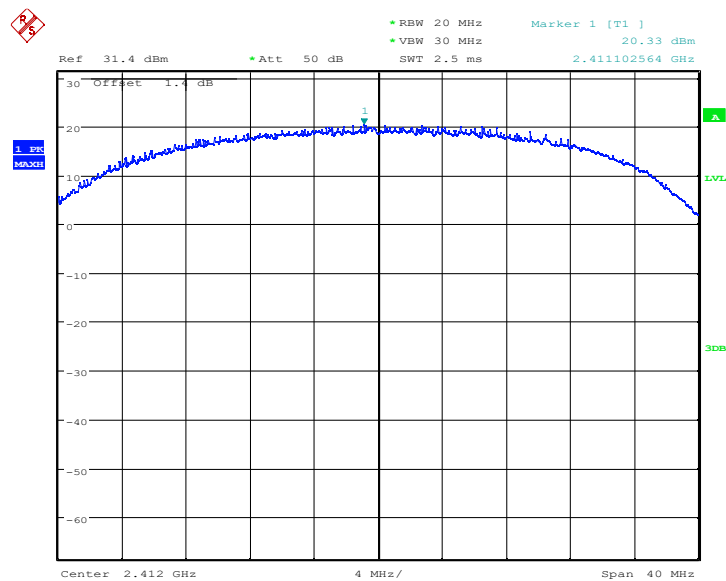
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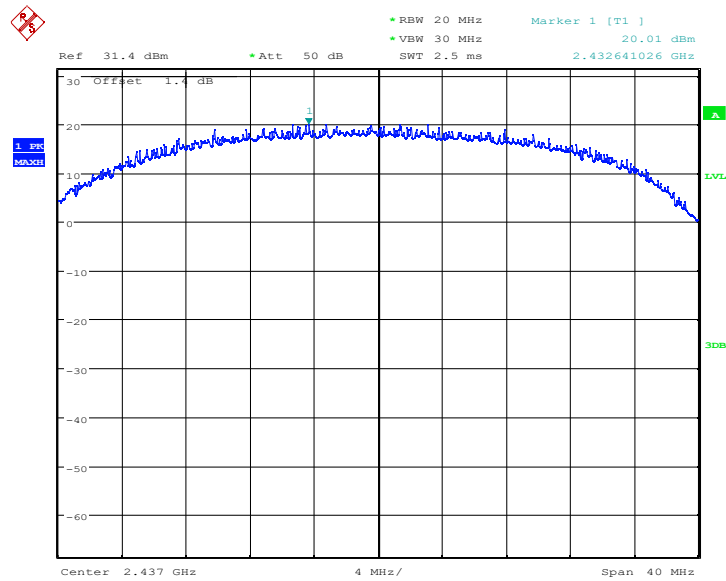
Date: 15.DEC.2021 00:02:55

Fig.19 Peak Conducted Output Power CH1, 11g, Rate48



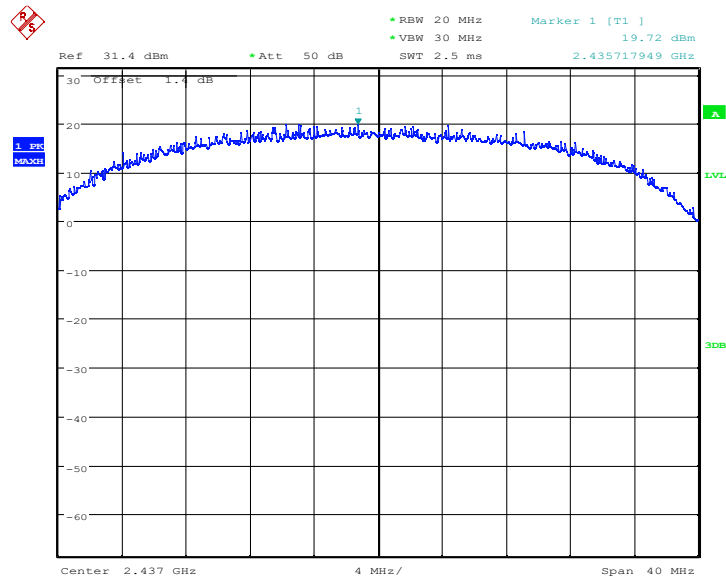
Date: 15.DEC.2021 00:03:36

Fig.20 Peak Conducted Output Power CH1, 11g, Rate54



Date: 15.DEC.2021 00:05:48

Fig.21 Peak Conducted Output Power CH6, 11g, Rate6

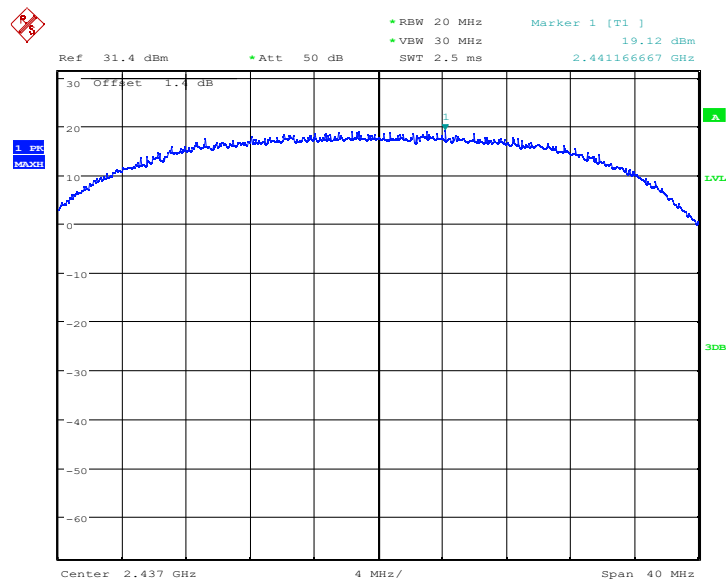


Date: 15.DEC.2021 00:05:34

Fig.22 Peak Conducted Output Power CH6, 11g, Rate9

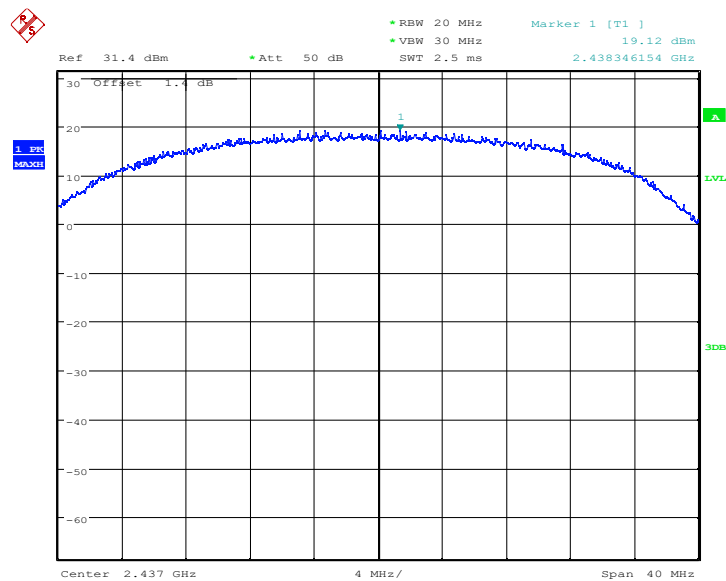
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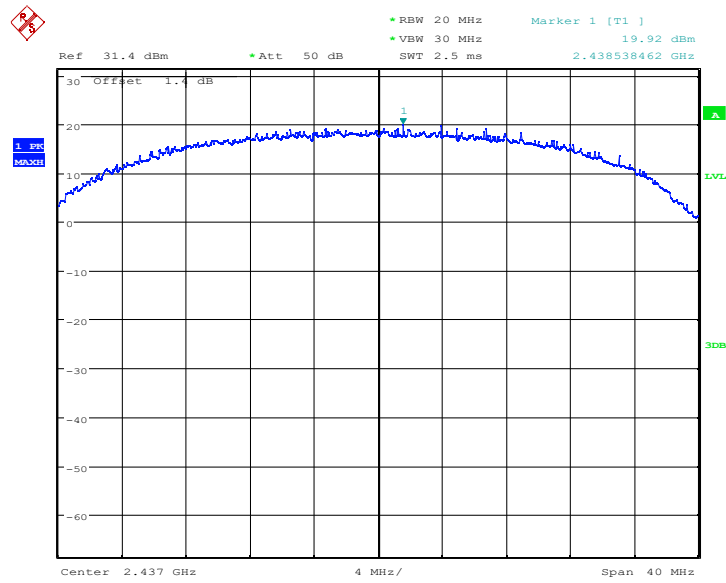
Date: 15.DEC.2021 00:05:19

Fig.23 Peak Conducted Output Power CH6, 11g, Rate12



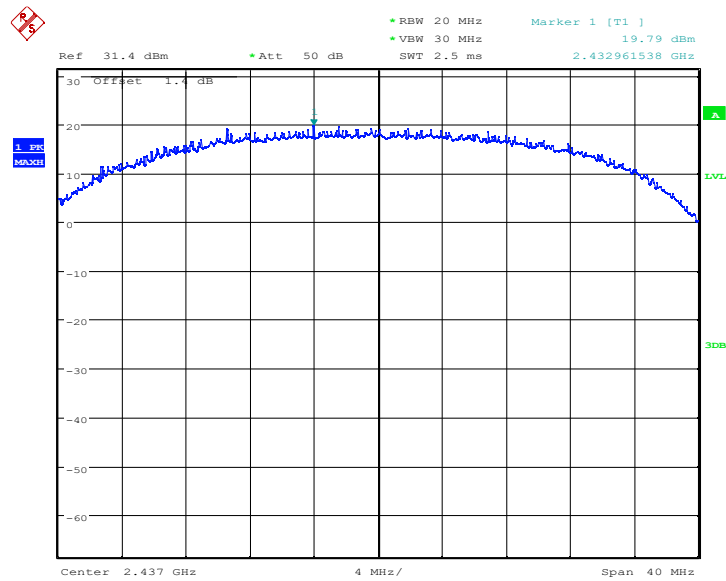
Date: 15.DEC.2021 00:05:05

Fig.24 Peak Conducted Output Power CH6, 11g, Rate18



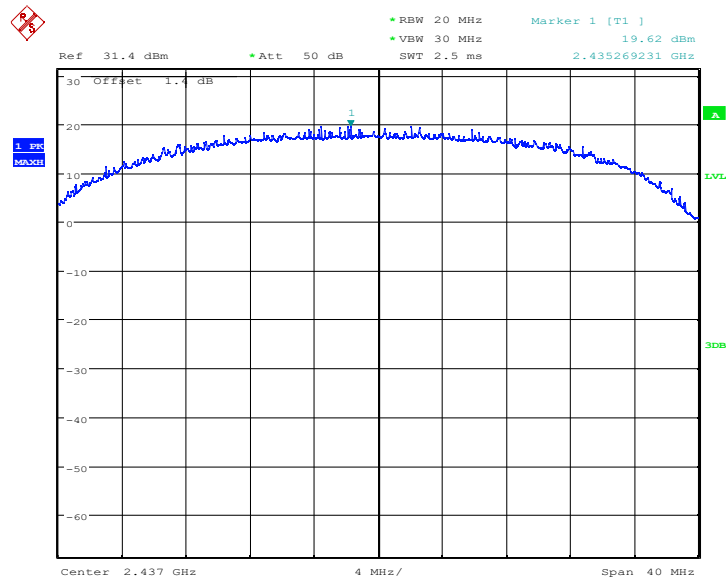
Date: 15.DEC.2021 00:04:46

Fig.25 Peak Conducted Output Power CH6, 11g, Rate24



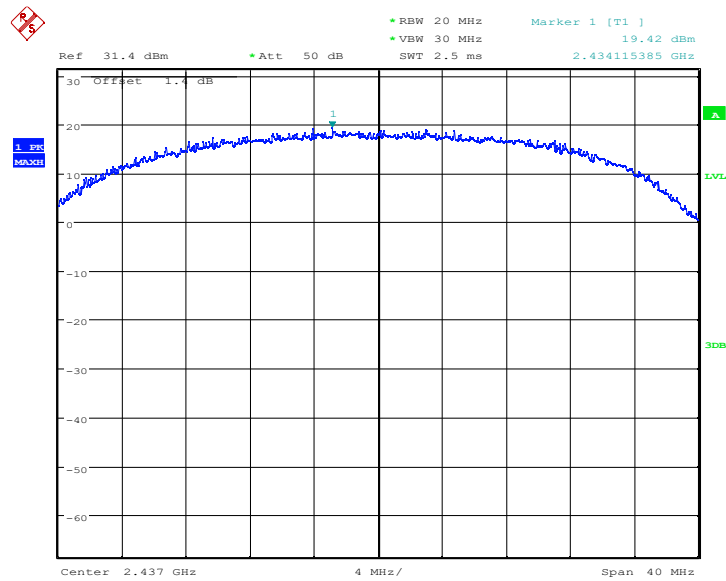
Date: 15.DEC.2021 00:04:30

Fig.26 Peak Conducted Output Power CH6, 11g, Rate36



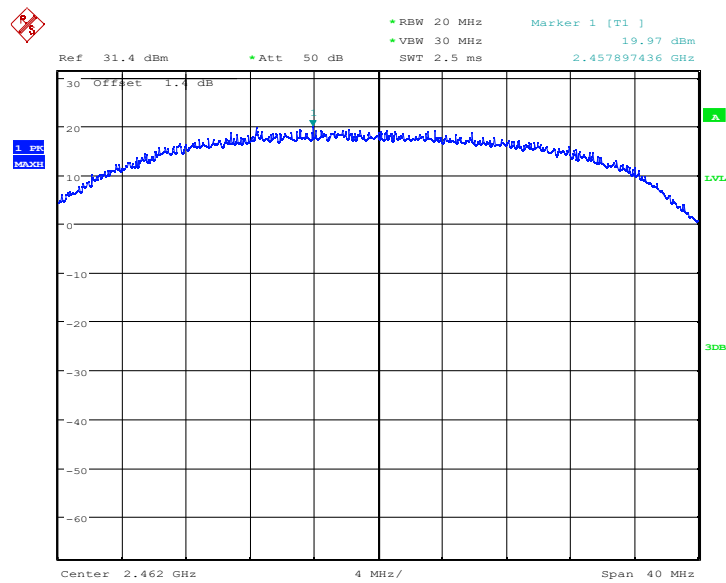
Date: 15.DEC.2021 00:04:16

Fig.27 Peak Conducted Output Power CH6, 11g, Rate48



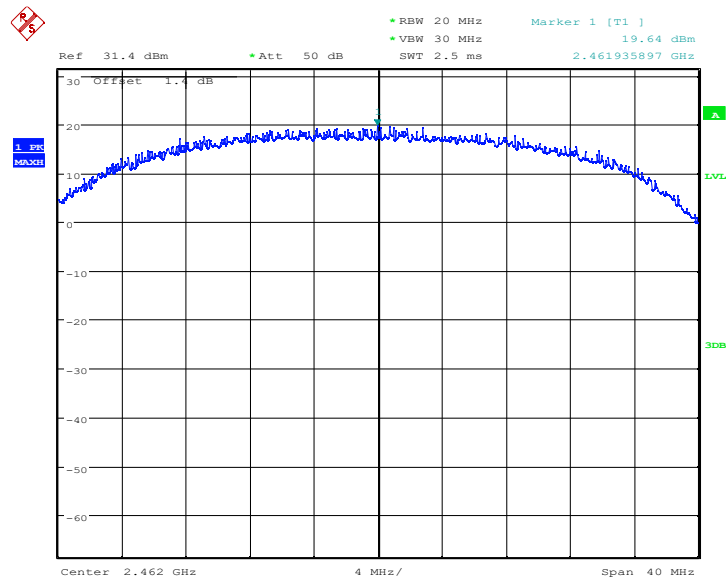
Date: 15.DEC.2021 00:04:03

Fig.28 Peak Conducted Output Power CH6, 11g, Rate54



Date: 15.DEC.2021 00:06:08

Fig.29 Peak Conducted Output Power CH11, 11g, Rate6

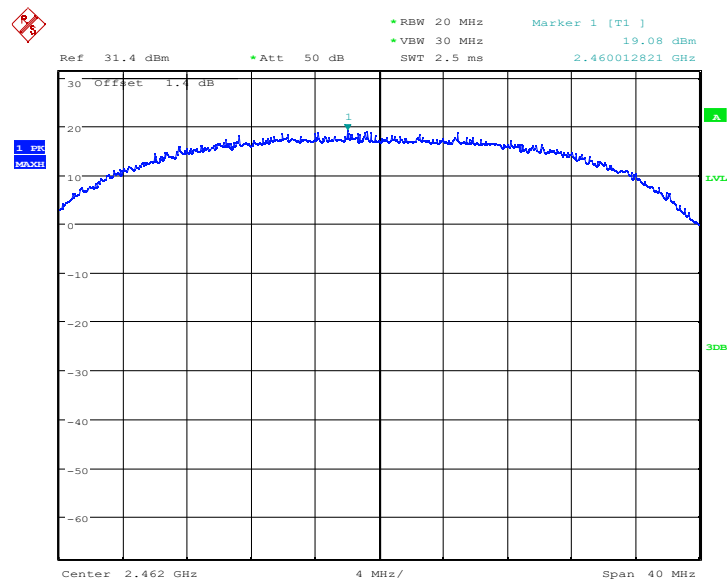


Date: 15.DEC.2021 00:06:21

Fig.30 Peak Conducted Output Power CH11, 11g, Rate9

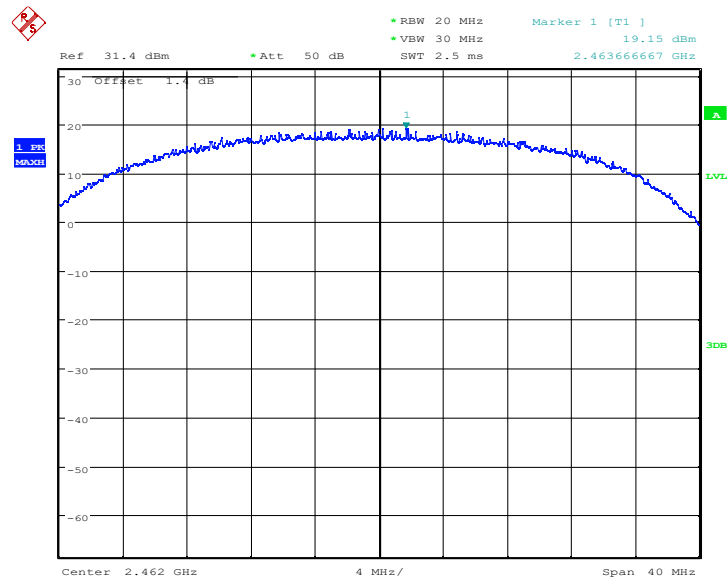
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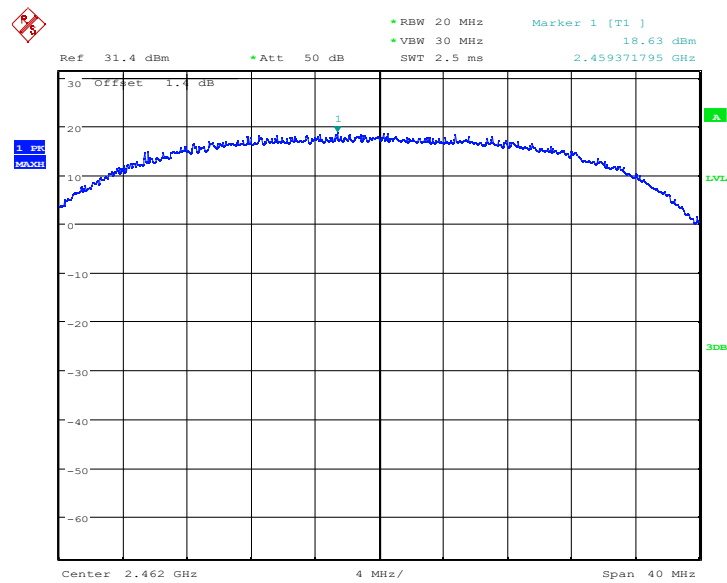
Date: 15.DEC.2021 00:06:39

Fig.31 Peak Conducted Output Power CH11, 11g, Rate12



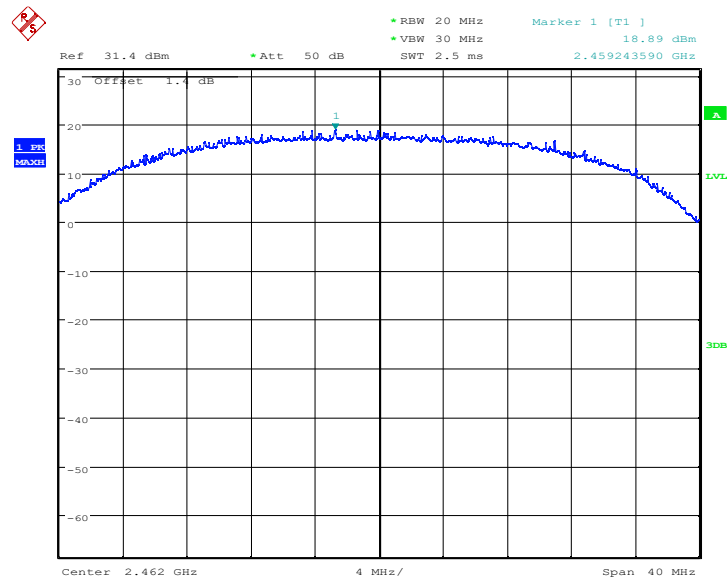
Date: 15.DEC.2021 00:06:55

Fig.32 Peak Conducted Output Power CH11, 11g, Rate18



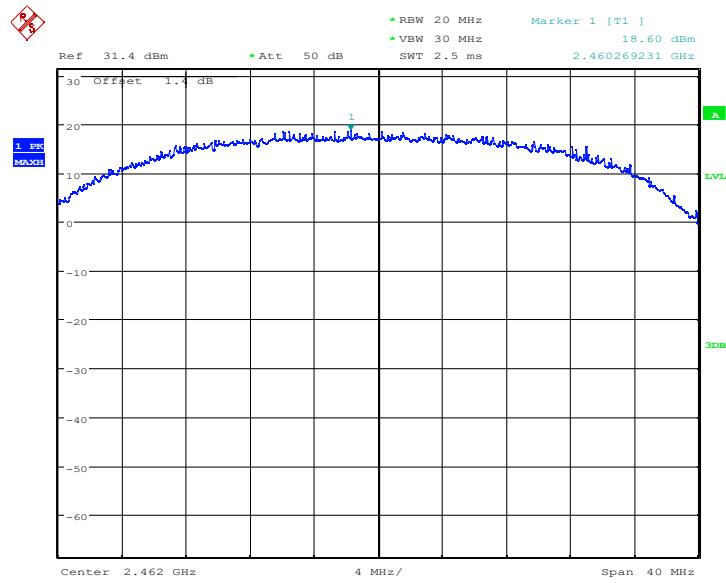
Date: 15.DEC.2021 00:07:11

Fig.33 Peak Conducted Output Power CH11, 11g, Rate24



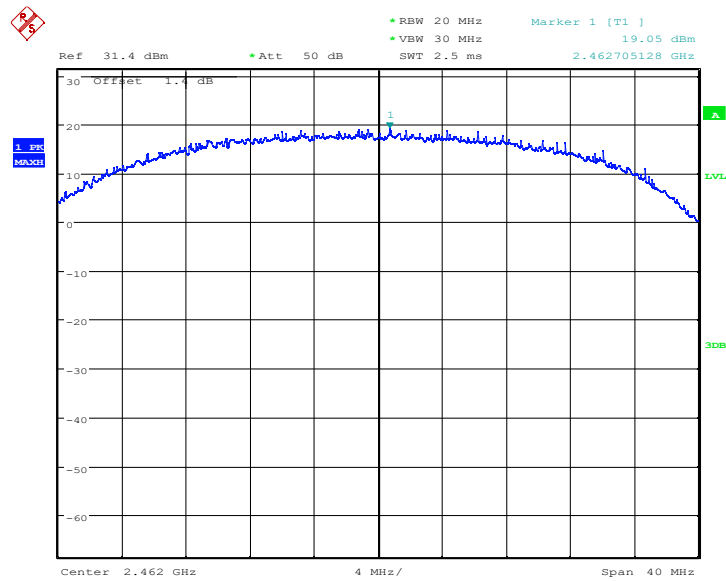
Date: 15.DEC.2021 00:07:25

Fig.34 Peak Conducted Output Power CH11, 11g, Rate36



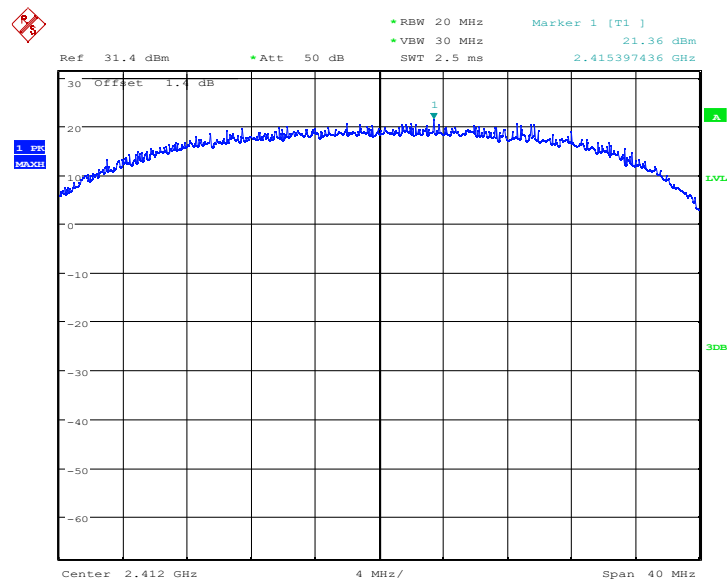
Date: 15.DEC.2021 00:07:38

Fig.35 Peak Conducted Output Power CH11, 11g, Rate48



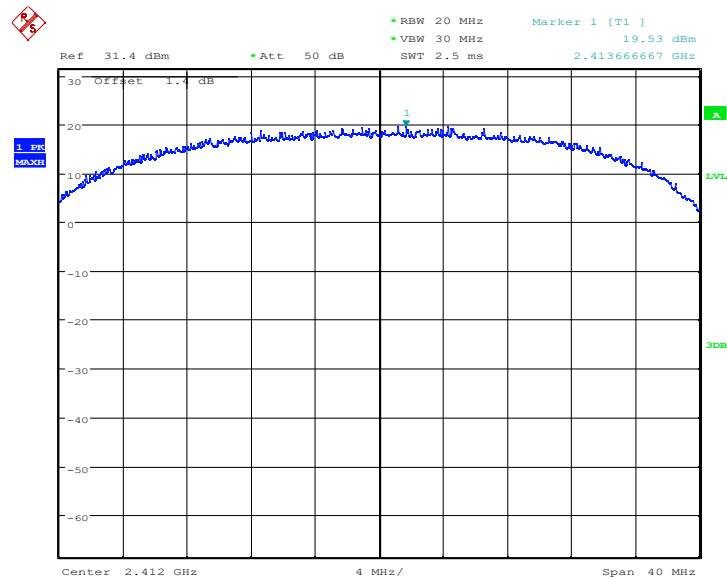
Date: 15.DEC.2021 00:07:54

Fig.36 Peak Conducted Output Power CH11, 11g, Rate54



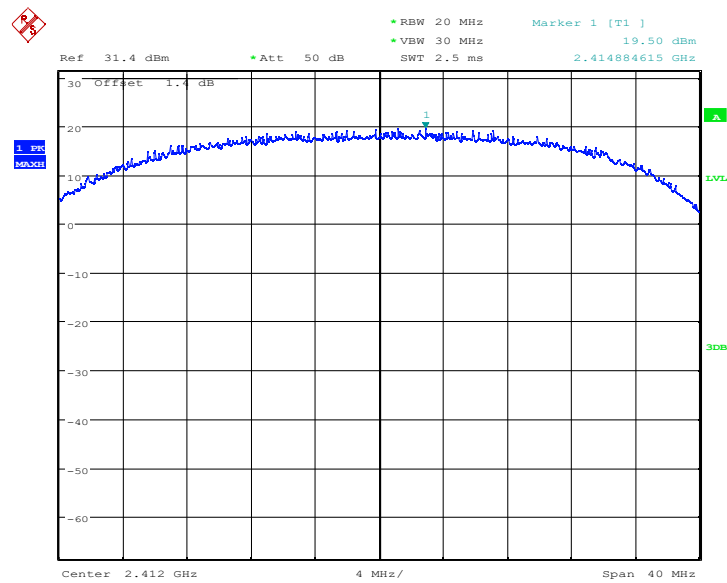
Date: 15.DEC.2021 00:18:59

Fig.37 Peak Conducted Output Power CH1, 11n, MCS0



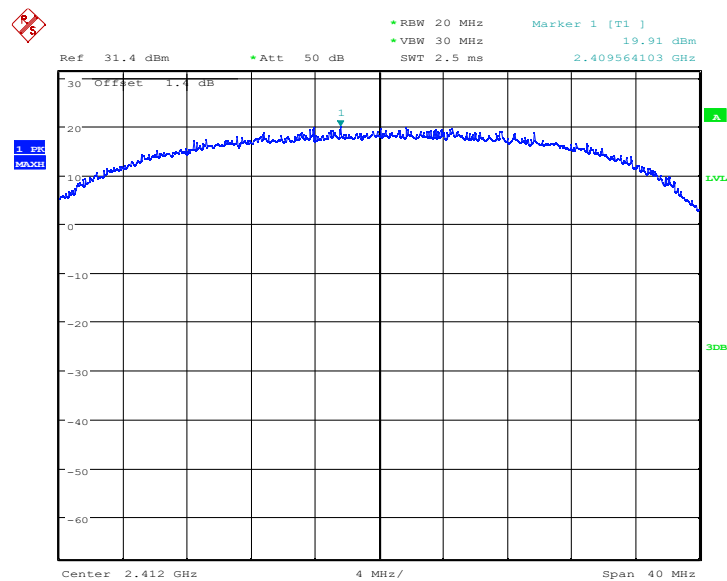
Date: 15.DEC.2021 00:19:11

Fig.38 Peak Conducted Output Power CH1, 11n, MCS1



Date: 15.DEC.2021 00:19:25

Fig.39 Peak Conducted Output Power CH1, 11n, MCS2

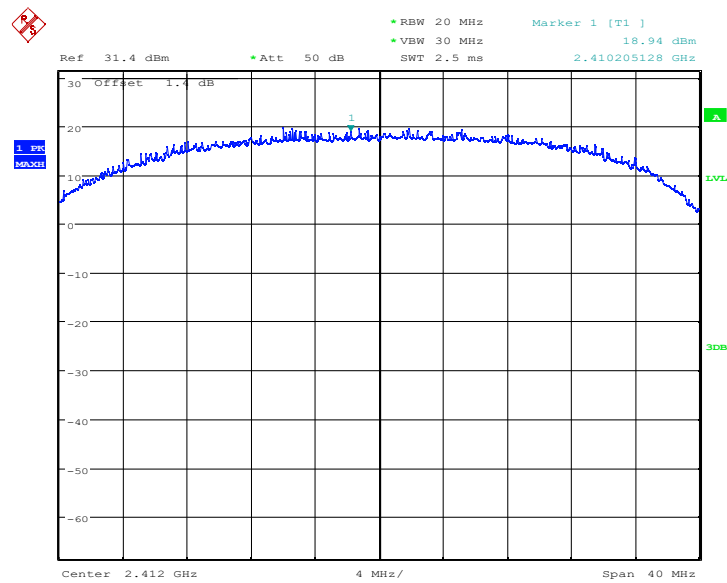


Date: 15.DEC.2021 00:19:36

Fig.40 Peak Conducted Output Power CH1, 11n, MCS3

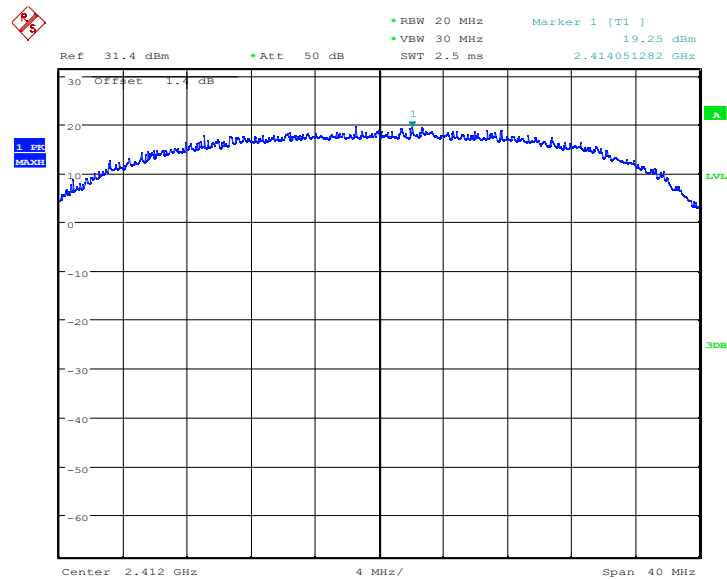
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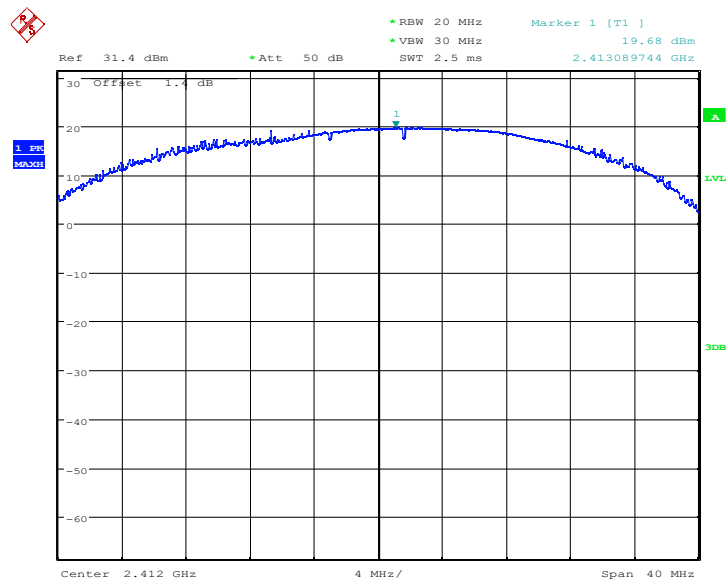
Date: 15.DEC.2021 00:20:08

Fig.41 Peak Conducted Output Power CH1, 11n, MCS4



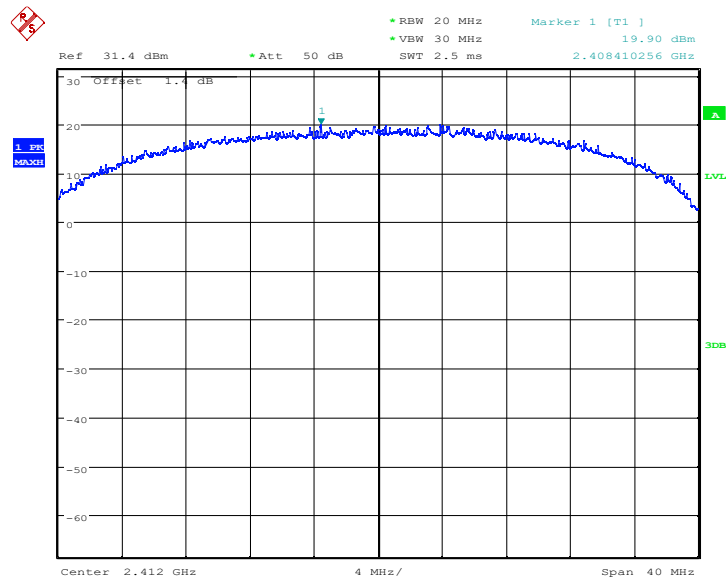
Date: 15.DEC.2021 00:20:22

Fig.42 Peak Conducted Output Power CH1, 11n, MCS5



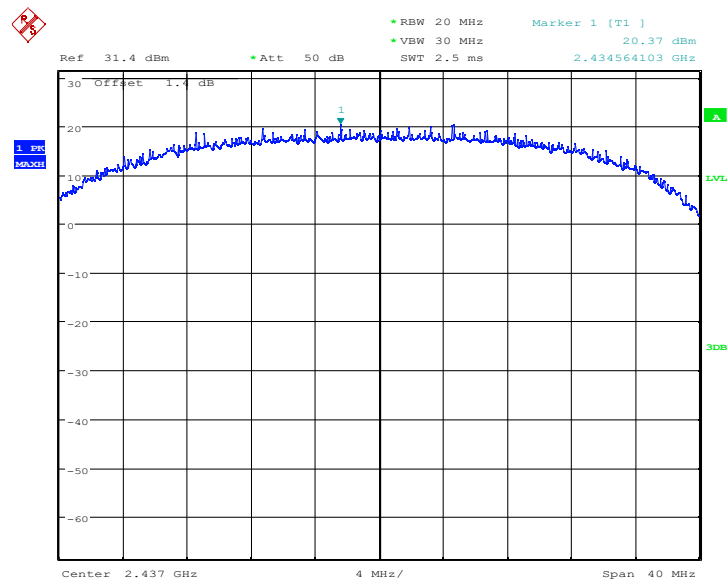
Date: 15.DEC.2021 00:20:34

Fig.43 Peak Conducted Output Power CH1, 11n, MCS6



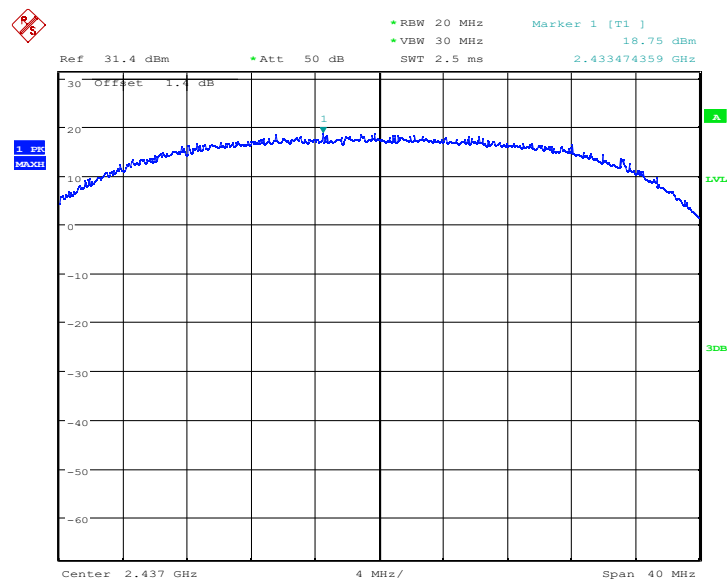
Date: 15.DEC.2021 00:19:52

Fig.44 Peak Conducted Output Power CH1, 11n, MCS7



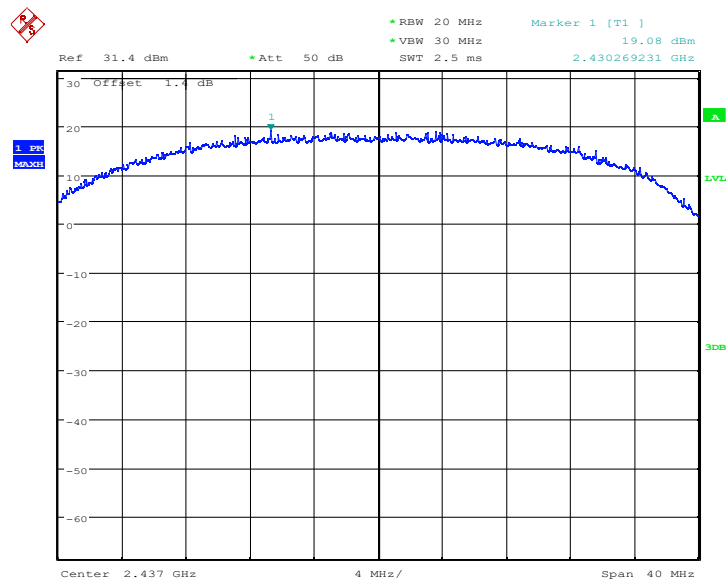
Date: 15.DEC.2021 00:18:33

Fig.45 Peak Conducted Output Power CH6, 11n, MCS0



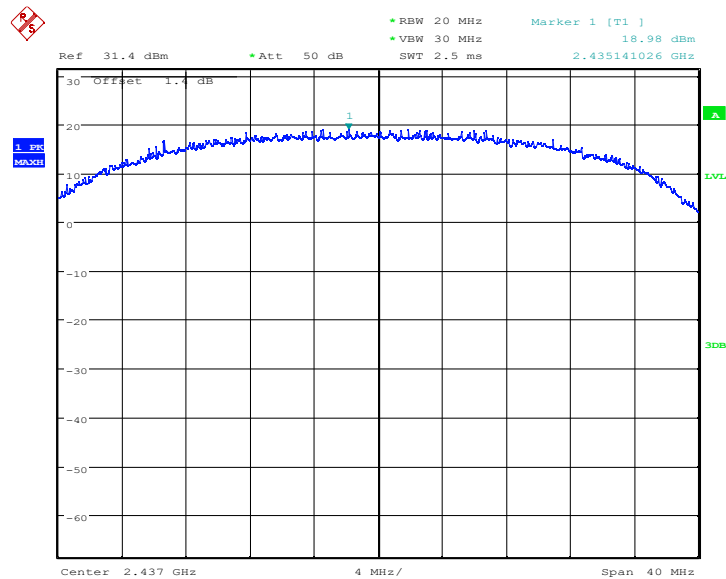
Date: 15.DEC.2021 00:18:19

Fig.46 Peak Conducted Output Power CH6, 11n, MCS1



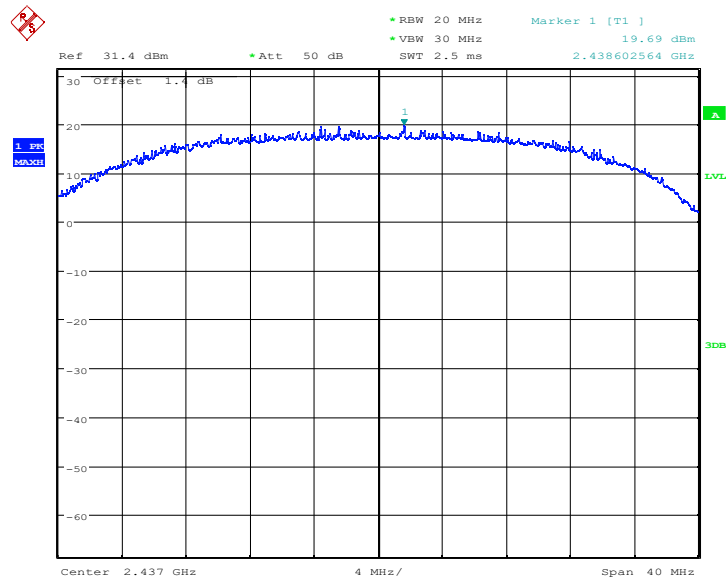
Date: 15.DEC.2021 00:18:08

Fig.47 Peak Conducted Output Power CH6, 11n, MCS2



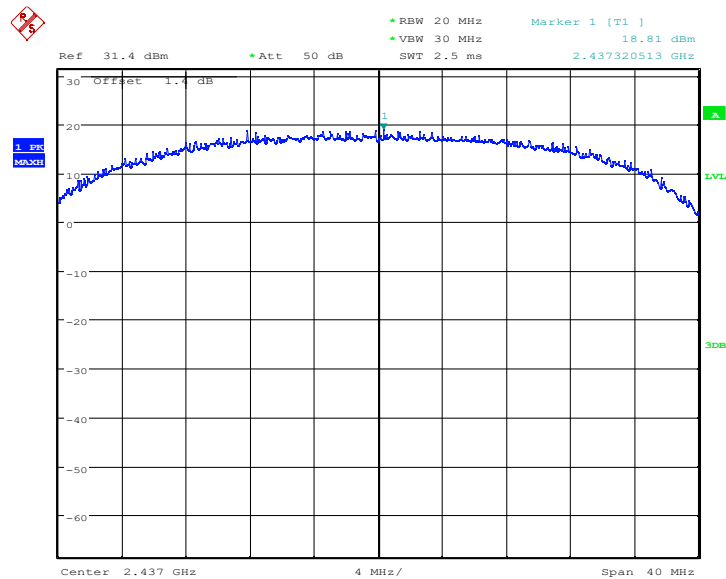
Date: 15.DEC.2021 00:17:57

Fig.48 Peak Conducted Output Power CH6, 11n, MCS3



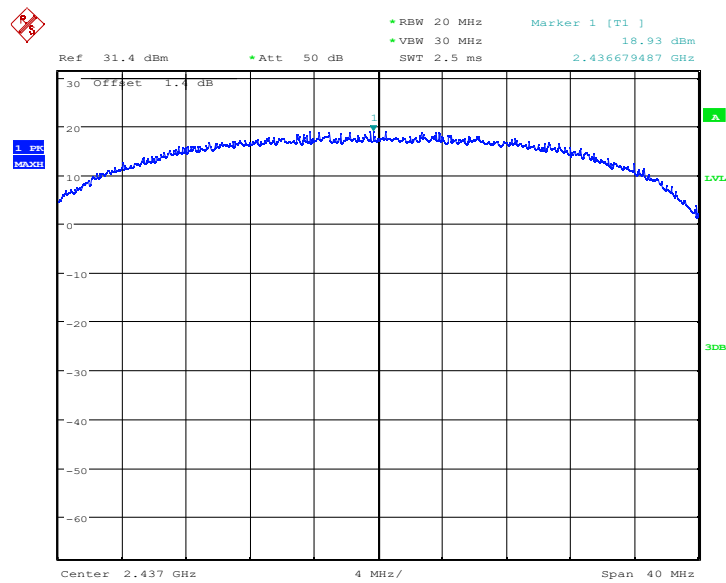
Date: 15.DEC.2021 00:17:45

Fig.49 Peak Conducted Output Power CH6, 11n, MCS4



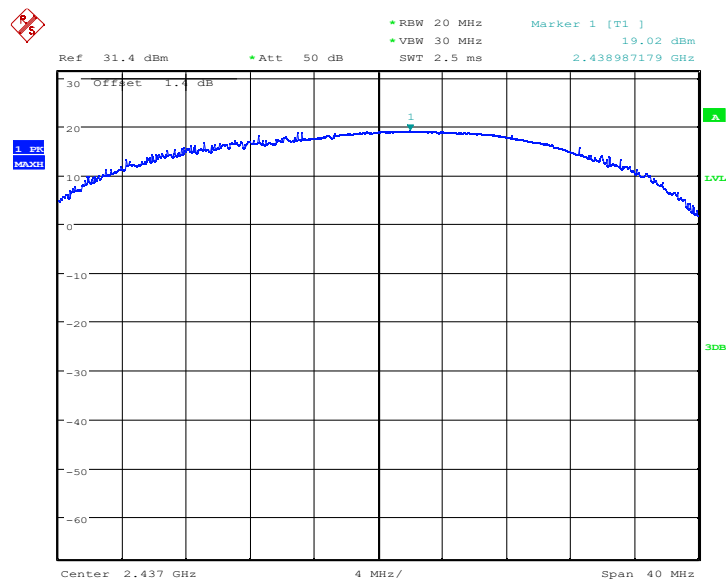
Date: 15.DEC.2021 00:17:32

Fig.50 Peak Conducted Output Power CH6, 11n, MCS5



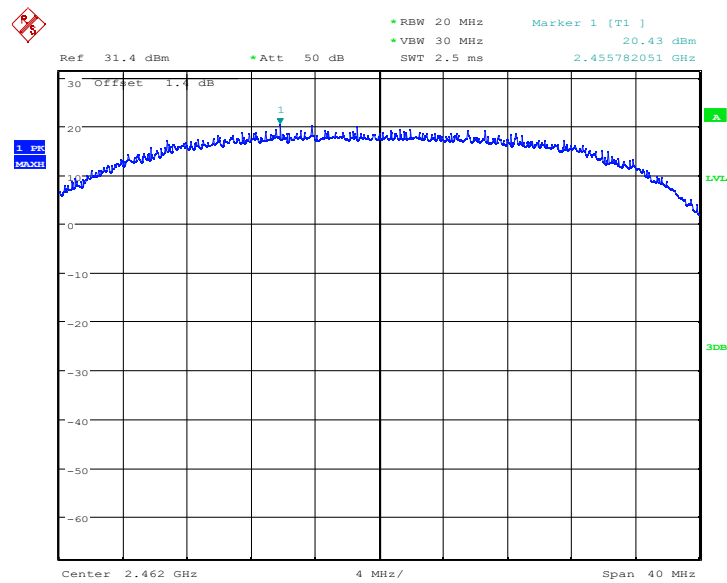
Date: 15.DEC.2021 00:17:19

Fig.51 Peak Conducted Output Power CH6, 11n, MCS6



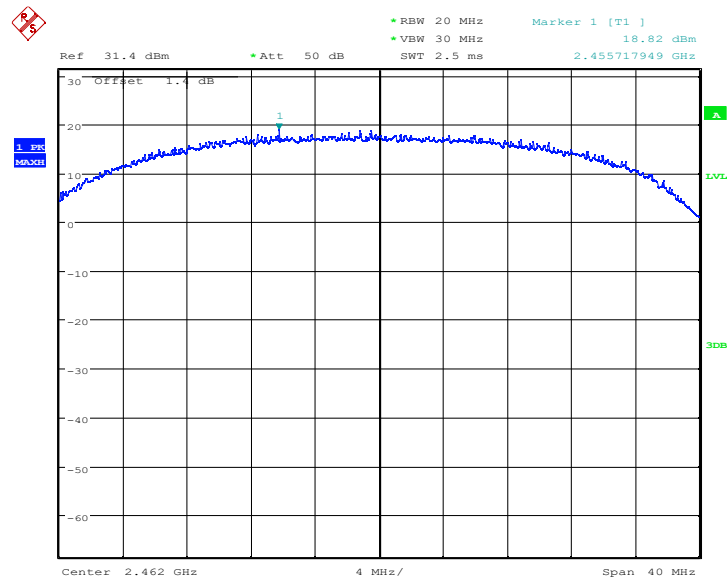
Date: 15.DEC.2021 00:17:05

Fig.52 Peak Conducted Output Power CH6, 11n, MCS7



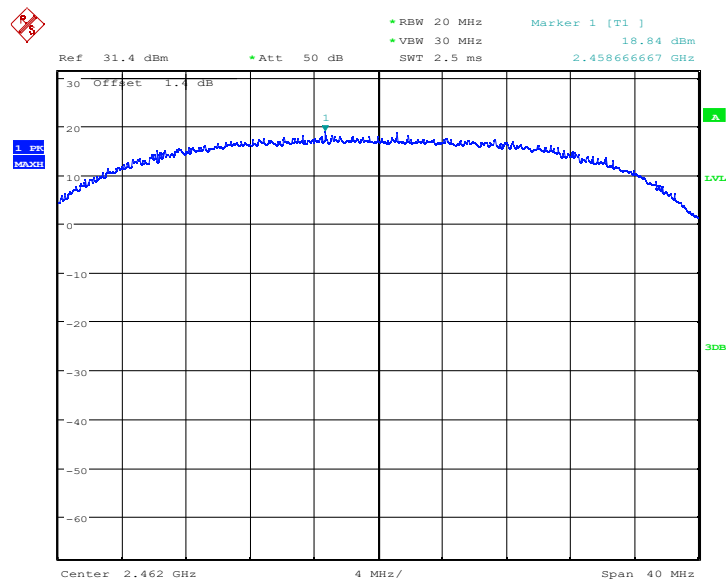
Date: 15.DEC.2021 00:15:19

Fig.53 Peak Conducted Output Power CH11, 11n, MCS0



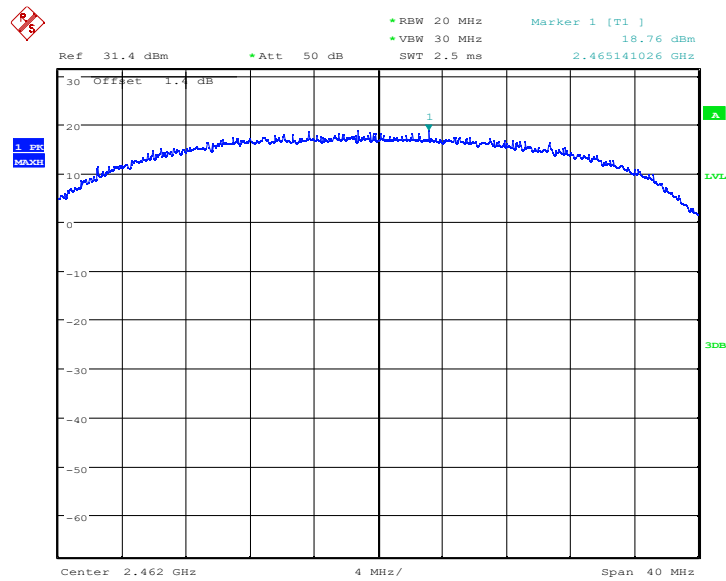
Date: 15.DEC.2021 00:15:34

Fig.54 Peak Conducted Output Power CH11, 11n, MCS1



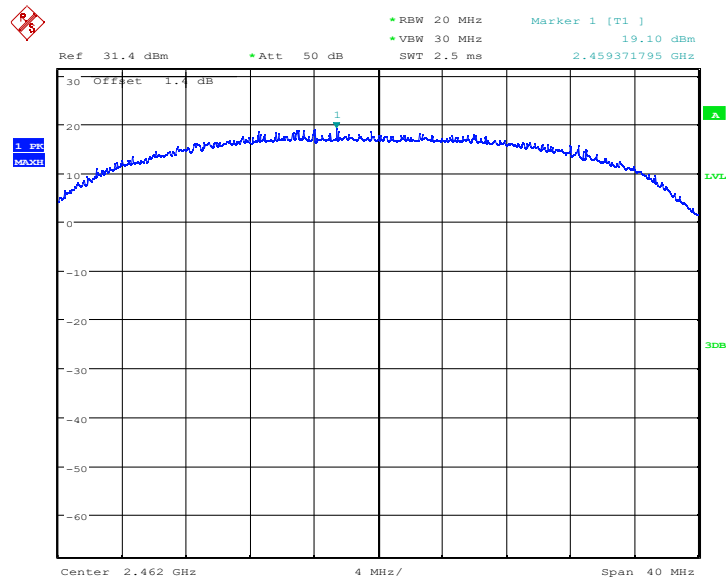
Date: 15.DEC.2021 00:15:45

Fig.55 Peak Conducted Output Power CH11, 11n, MCS2



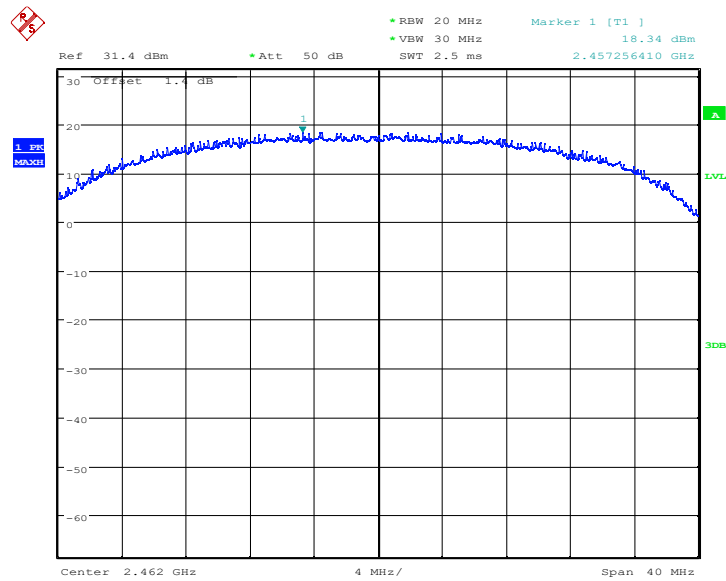
Date: 15.DEC.2021 00:15:57

Fig.56 Peak Conducted Output Power CH11, 11n, MCS3



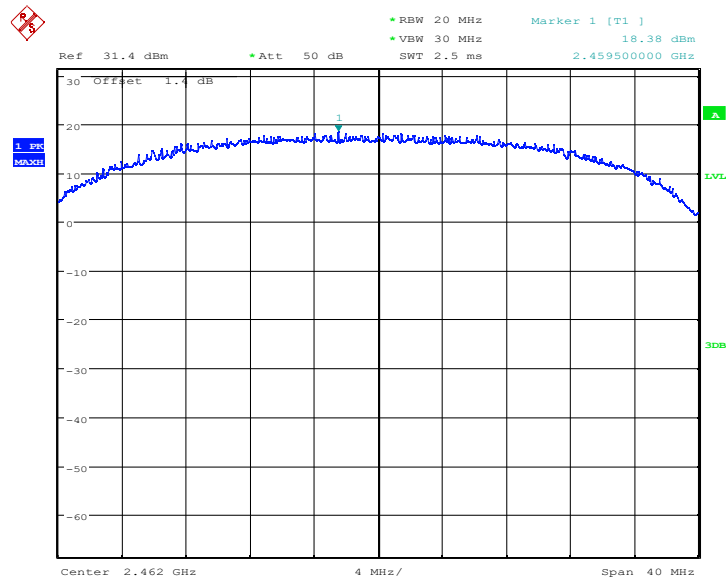
Date: 15.DEC.2021 00:16:09

Fig.57 Peak Conducted Output Power CH11, 11n, MCS4



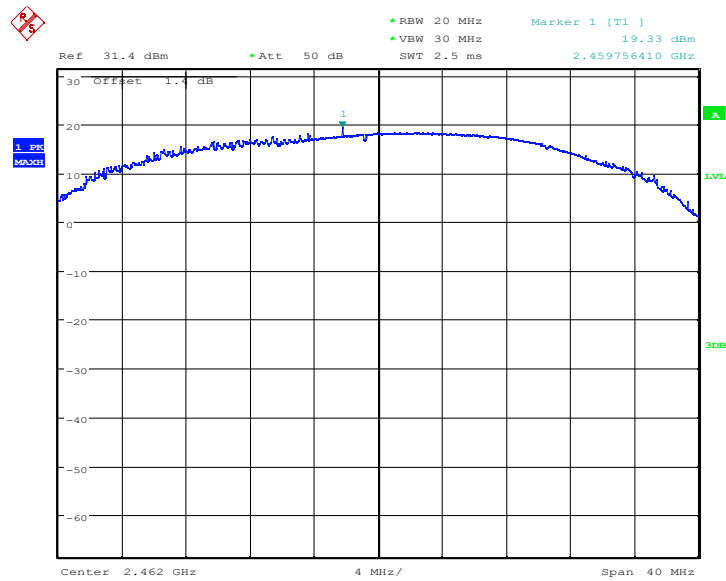
Date: 15.DEC.2021 00:16:21

Fig.58 Peak Conducted Output Power CH11, 11n, MCS5



Date: 15.DEC.2021 00:16:36

Fig.59 Peak Conducted Output Power CH11, 11n, MCS6



Date: 15.DEC.2021 00:16:48

Fig.60 Peak Conducted Output Power CH11, 11n, MCS7

6.3. Peak Power Spectral Density

Specifications:	FCC CFR Part 15.247(e)
DUT Serial Number:	865171050693608
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC CFR Part 15.247(e)	< 8dBm/3 KHz

Measurement Uncertainty:

Measurement Uncertainty	$\pm 0.82\text{dBm/KHz}$
-------------------------	--------------------------

Test procedure:

The measurement is according to ANSI C63.10 clause 11.10.

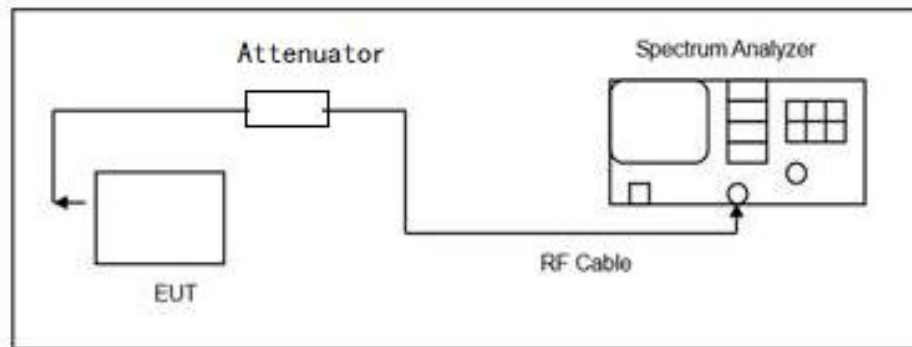
1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Note: --

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Test block diagram:



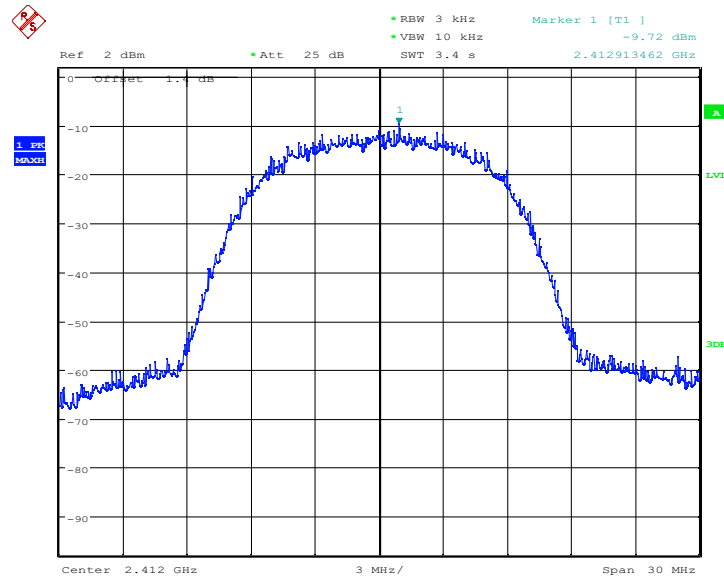
Test Results:

802.11b/g/n mode

Mode	Power Spectral Density(dBm/3kHz)			Conclusion
	Ch1	Ch6	Ch11	
802.11b	-9.72	-10.94	-11.03	Pass
802.11g	-16.74	-16.73	-17.06	Pass
802.11n(20MHz)	-16.72	-17.14	-17.21	Pass

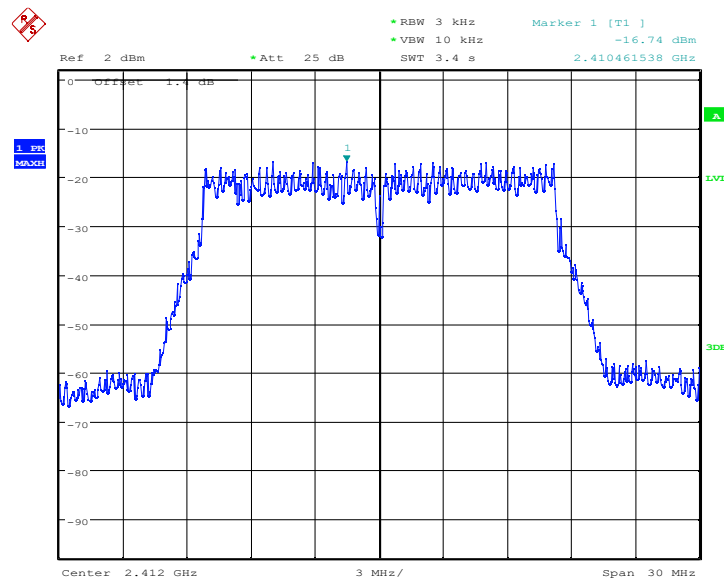
Conclusion: PASS

Test figure as below:



Date: 15.DEC.2021 03:12:36

Fig.61 Power spectral density: CH1,11b

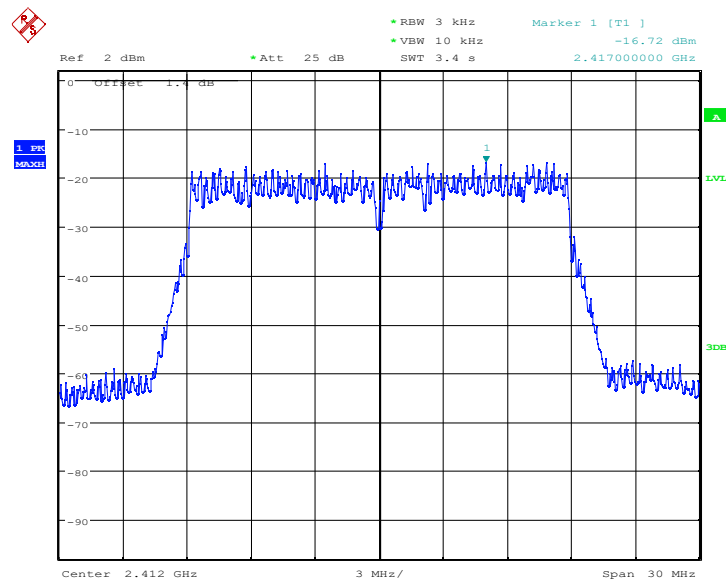


Date: 15.DEC.2021 03:15:32

Fig.62 Power spectral density: CH1,11g

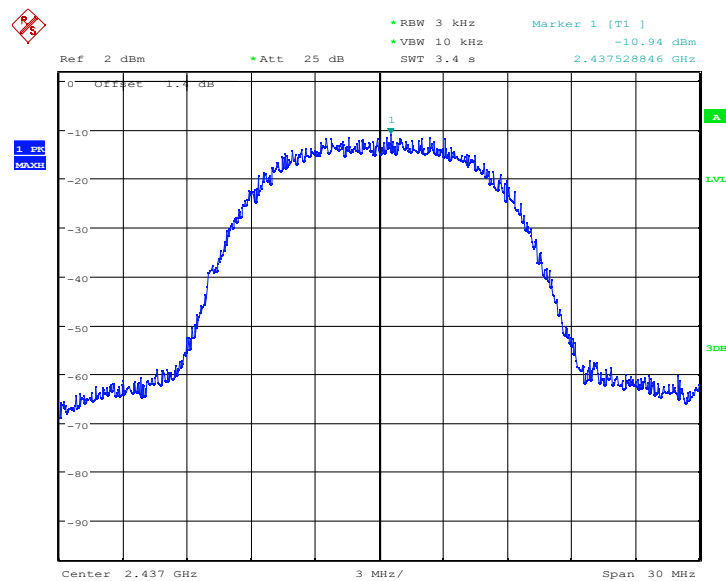
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Date: 15.DEC.2021 03:16:04

Fig.63 Power spectral density: CH1,11n



Date: 15.DEC.2021 03:13:17

Fig.64 Power spectral density: CH6,11b

Fig.65 Fig.66 Power spectral density: CH6,11g

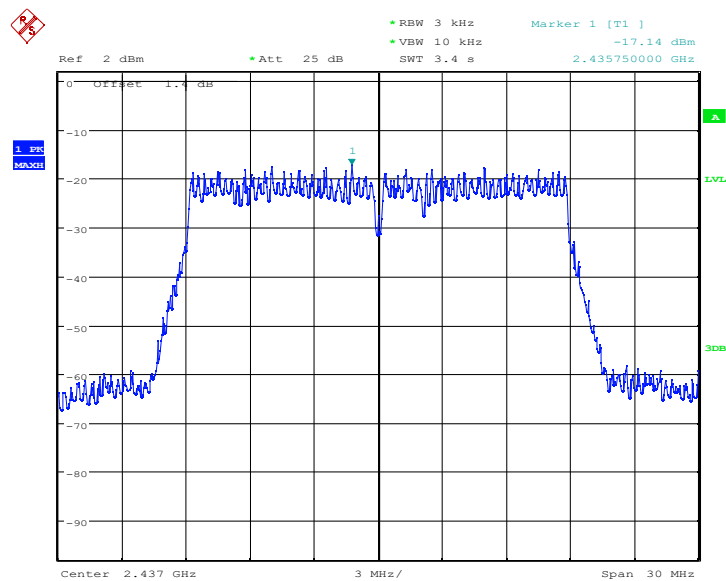
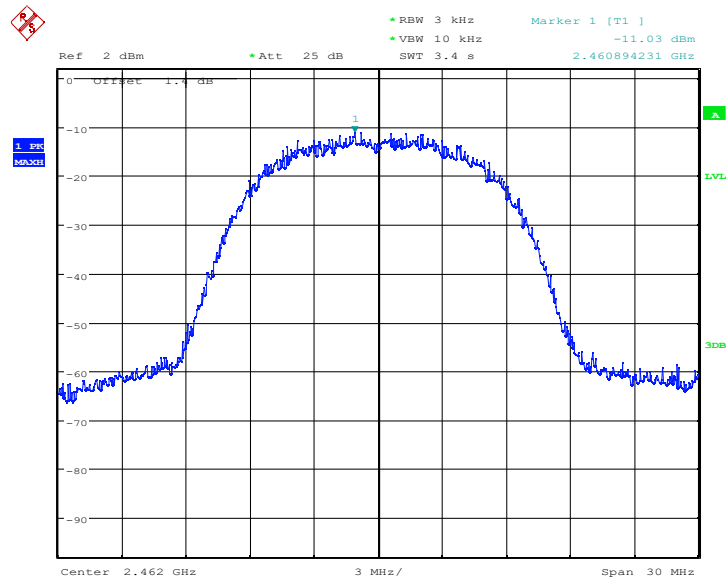
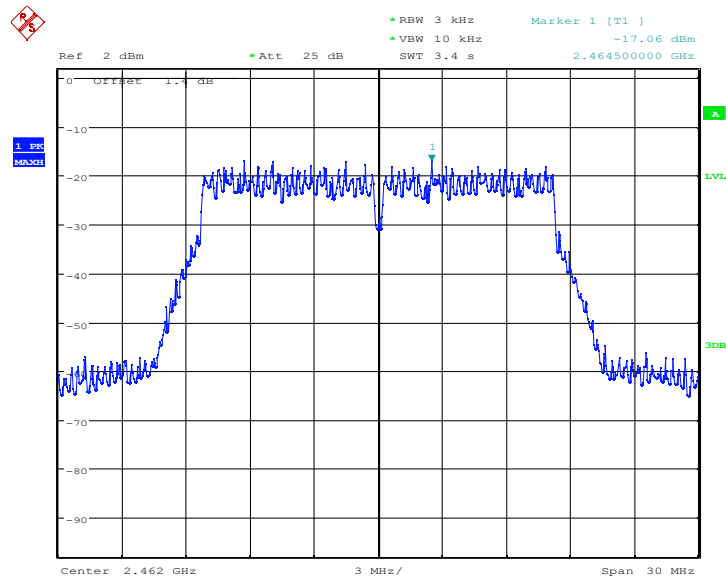


Fig.66 Power spectral density: CH6,11n



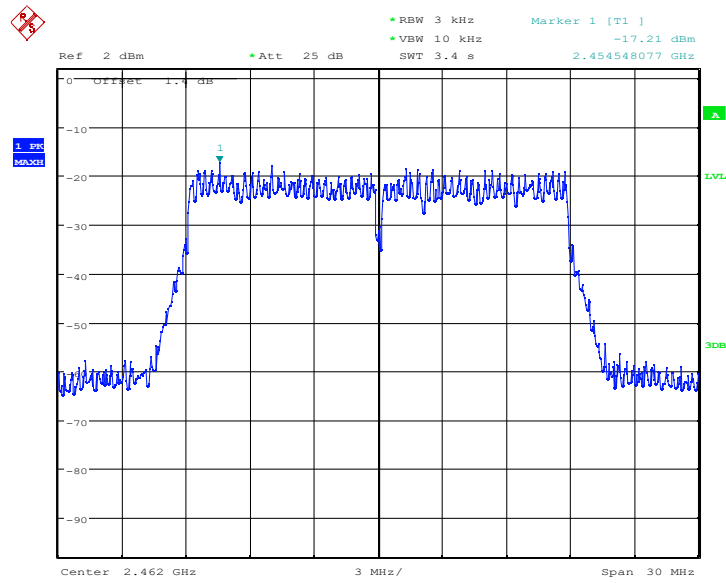
Date: 15.DEC.2021 03:14:06

Fig.67 Power spectral density: CH11,11b



Date: 15.DEC.2021 03:14:39

Fig.68 Power spectral density: CH11,11g



Date: 15.DEC.2021 03:22:49

Fig.69 Power spectral density: CH11,11n

6.4. 6dB Occupied Bandwidth

Specifications:	FCC 47 CFR Part 15.247(a)
DUT Serial Number:	865171050693608
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit(KHz)
FCC 47 CFR Part 15.247(a)	≥ 500

Measurement Uncertainty:

Measurement Uncertainty	$\pm 1.1\text{KHz}$
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Test Procedure

The measurement is according to ANSI C63.10 clause 11.8.

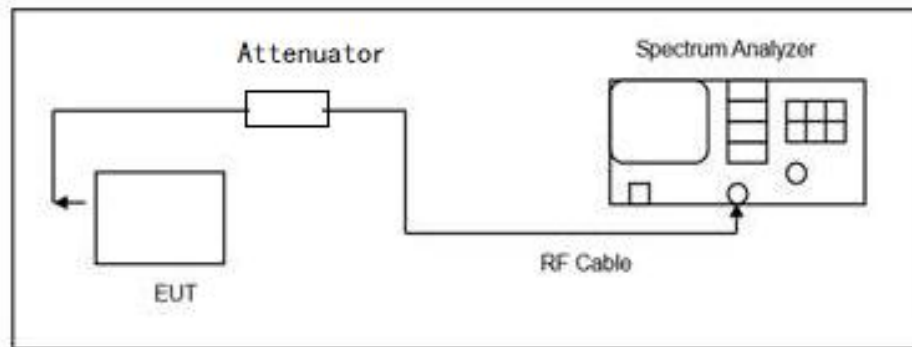
1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: --

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Test block diagram:



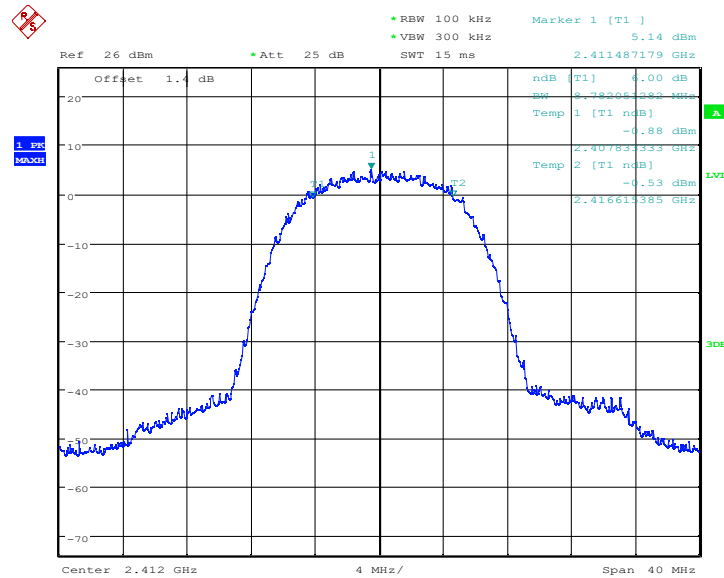
Test Result:

802.11b/g/n mode

Mode	Occupied 6dB Bandwidth(MHz)			Conclusion
	Ch1	Ch6	Ch11	
802.11b	8.78	8.71	8.78	Pass
802.11g	16.6	16.6	16.7	Pass
802.11n(20MHz)	17.8	17.9	17.9	Pass

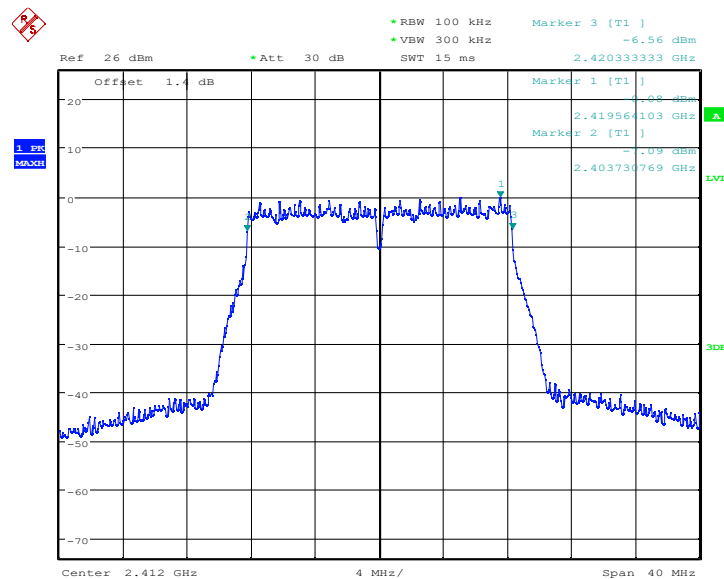
Conclusion: PASS

Test figure as below:



Date: 15.DEC.2021 03:26:30

Fig.70 6dB Bandwidth: Ch1,11b

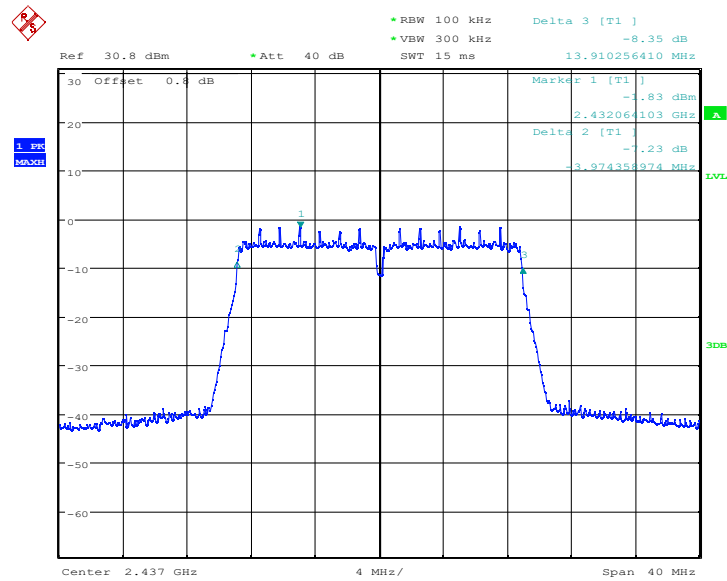


Date: 15.DEC.2021 02:48:17

Fig.71 6dB Bandwidth: Ch1,11g

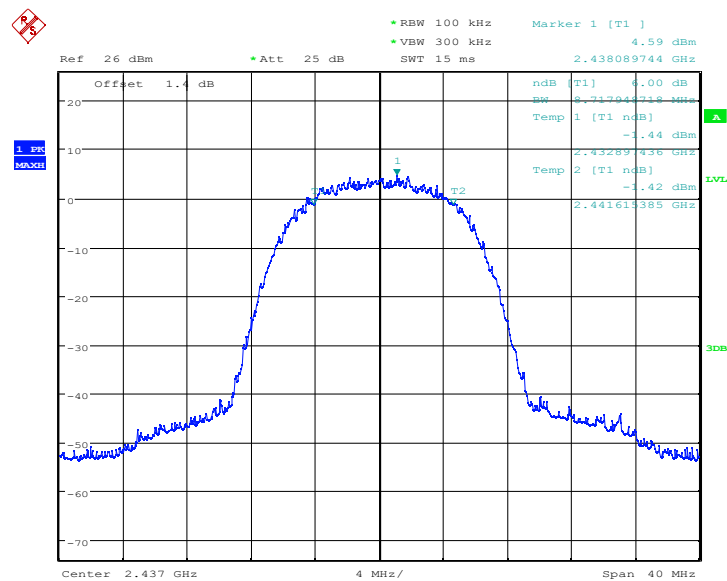
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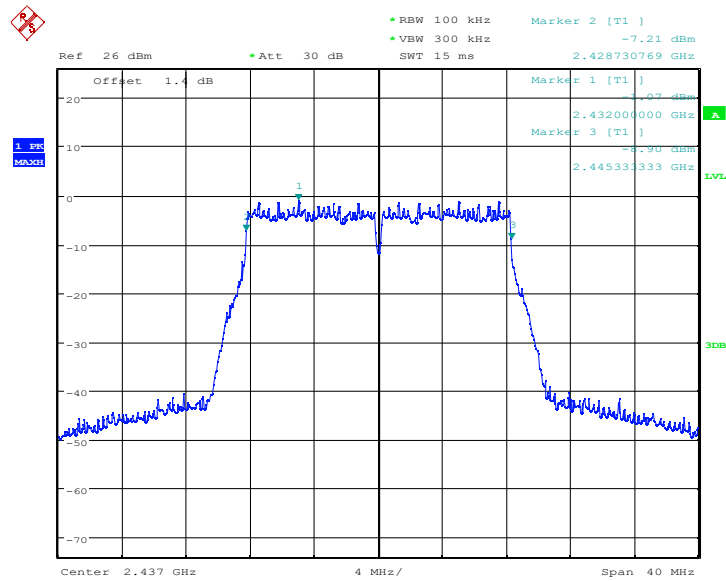
Date: 21.DEC.2021 14:51:12

Fig.72 6dB Bandwidth: Ch1,11n



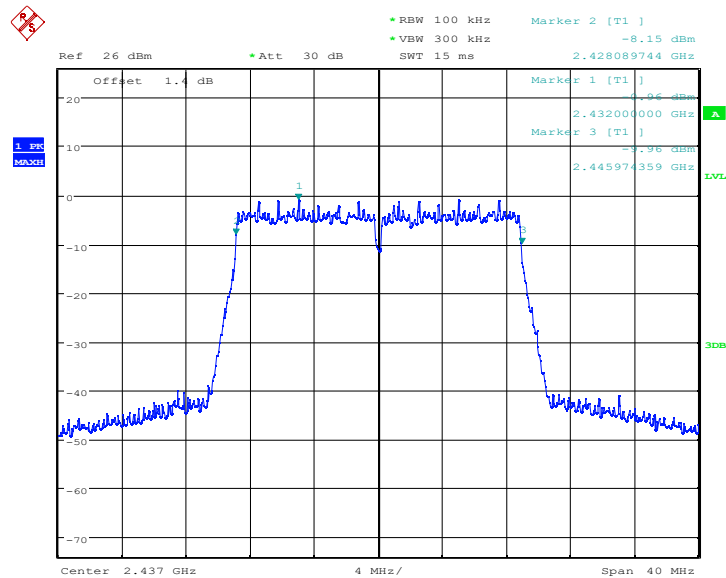
Date: 15.DEC.2021 03:26:59

Fig.73 6dB Bandwidth: Ch6,11b



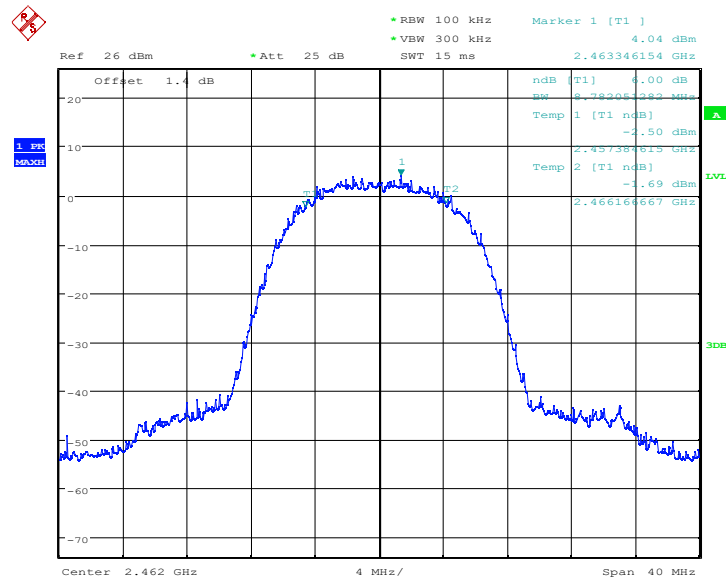
Date: 15.DEC.2021 03:31:12

Fig.74 6dB Bandwidth: Ch6,11g



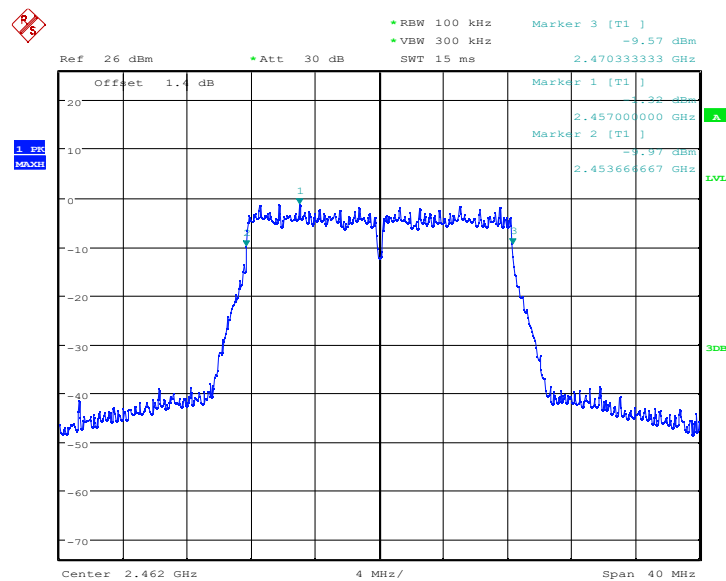
Date: 15.DEC.2021 02:49:24

Fig.75 6dB Bandwidth: Ch6,11n



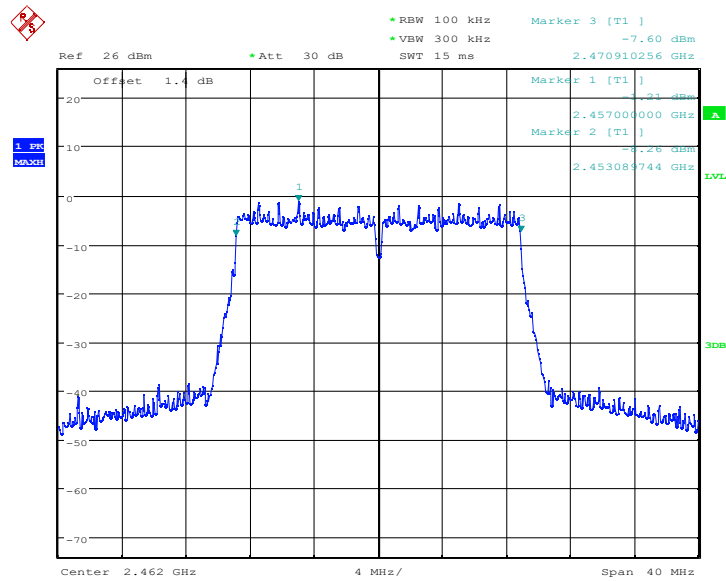
Date: 15.DEC.2021 03:27:17

Fig.76 6dB Bandwidth: Ch11,11b



Date: 15.DEC.2021 03:30:23

Fig.77 6dB Bandwidth: Ch11,11g



Date: 15.DEC.2021 02:49:52

Fig.78 6dB Bandwidth: Ch11,11n

6.5. Band Edges Compliance

Specifications:	FCC 47 CFR Part 15.247(d)
DUT Serial Number:	860371050880503
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limited(dBuV/m)	
FCC 47 CFR Part 15.247(d)	Peak	74
	Average	54

Measurement Uncertainty:

Frequency Range	Uncertainty
1 GHz to 6 GHz	4.84

Test Procedure

The measurement is according to ANSI C63.10 clause11.13.

- Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zero and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.
- Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2..
- Attenuation: Auto (at least 10 dB preferred).
- Sweep time: Coupled.
- Resolution bandwidth: Above 1 GHz: 1 MHz

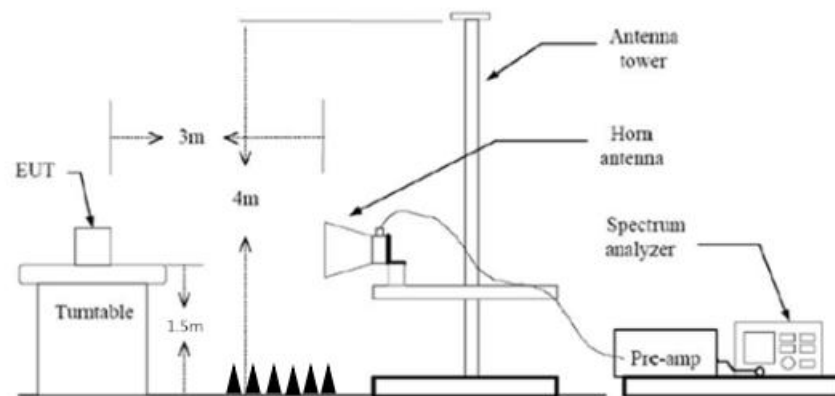
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7. Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: $3 \times \text{RBW}$
8. Detector (unless specified otherwise): Peak and average above 1 GHz
9. Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

Note: --

Test block diagram:



Test Result:

802.11b/g mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11b	1	Fig82	Pass
	11	Fig83	Pass
802.11g	1	Fig84	Pass
	11	Fig85	Pass

802.11n mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20MHz)	1	Fig86	Pass

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	11	Fig87	Pass
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Conclusion: PASS

Test figure as below:

BAND EDGERE 1GHz-3GHz 2.31-2.43G

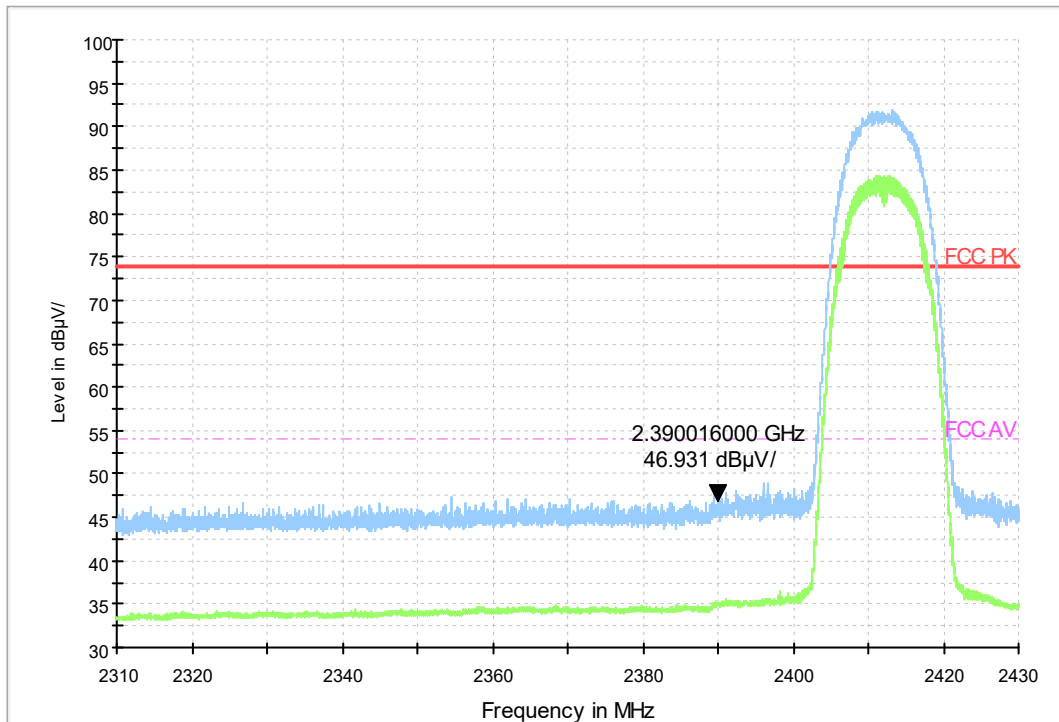


Fig.79 Frequency Band Edge: Ch1,11b

BAND EDGERE 1GHz-3GHz 2.45-2.5G

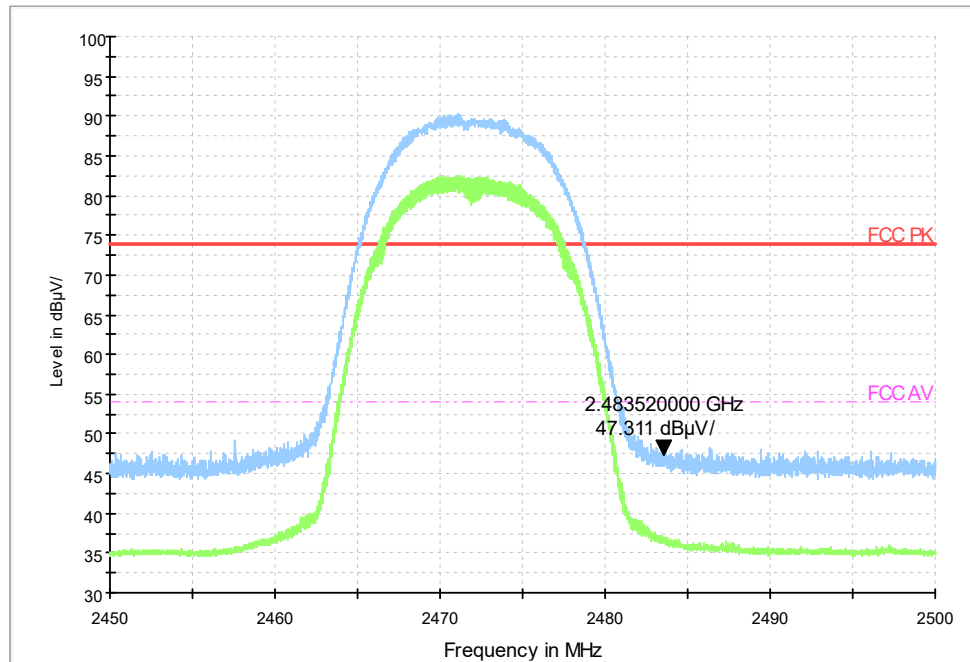


Fig.80 Frequency Band Edge: Ch11,11b

BAND EDGERE 1GHz-3GHz 2.31-2.43G

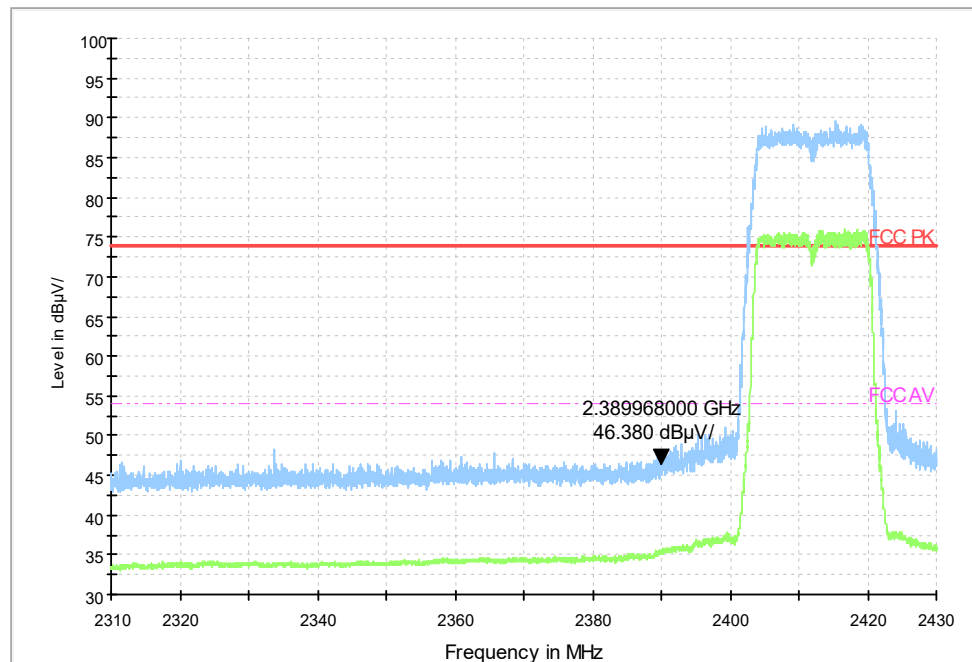


Fig.81 Frequency Band Edge: Ch1,11g

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BAND EDGERE 1GHz-3GHz 2.45-2.5G

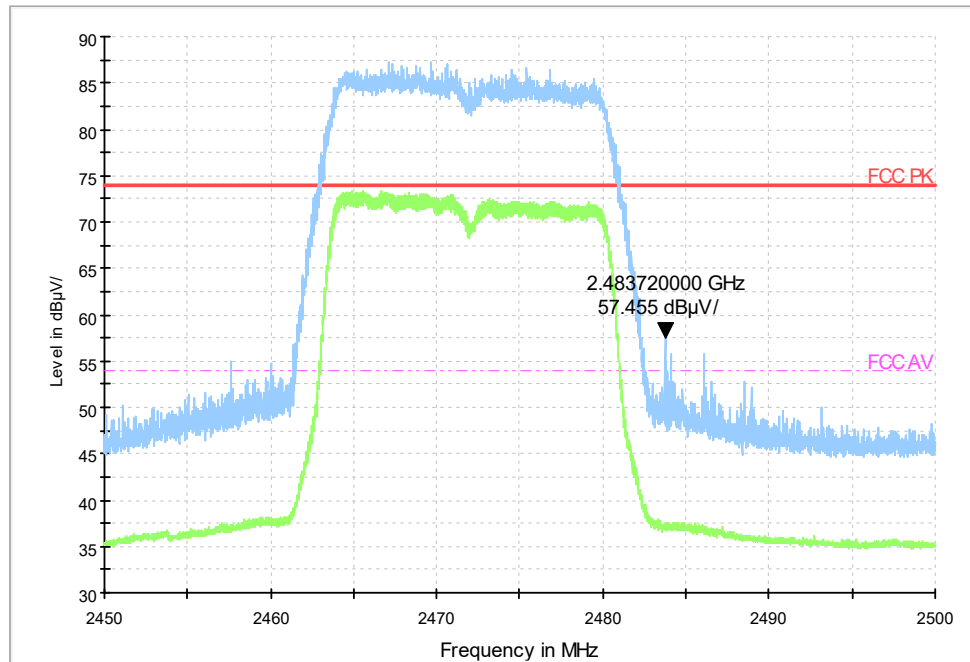


Fig.82 Frequency Band Edge: Ch11,11g

BAND EDGERE 1GHz-3GHz 2.31-2.43G

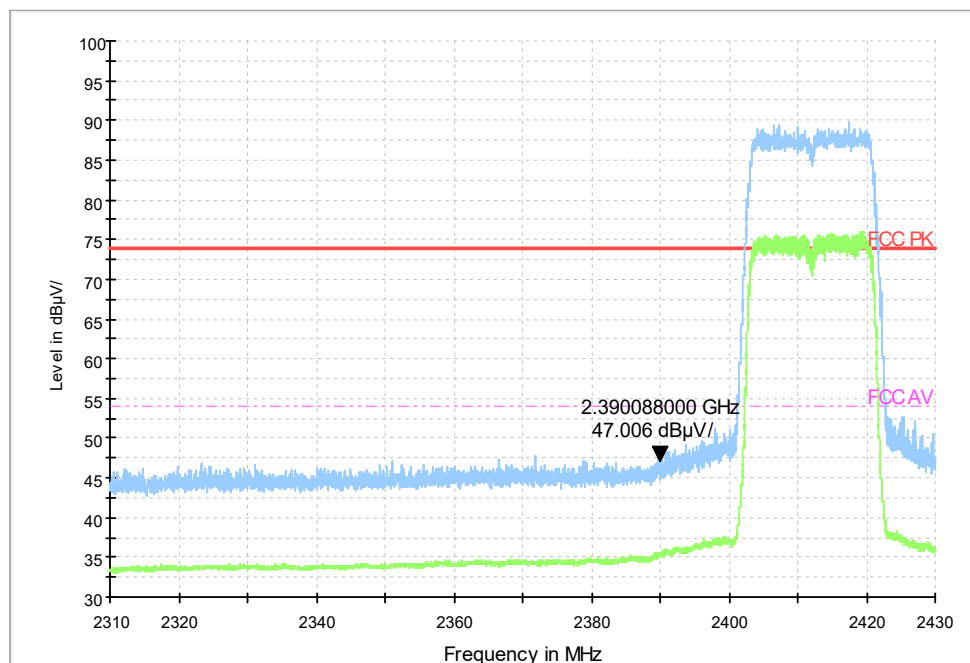


Fig.83 Frequency Band Edge: Ch1,11n(20M)

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BAND EDGERE 1GHz-3GHz 2.45-2.5G

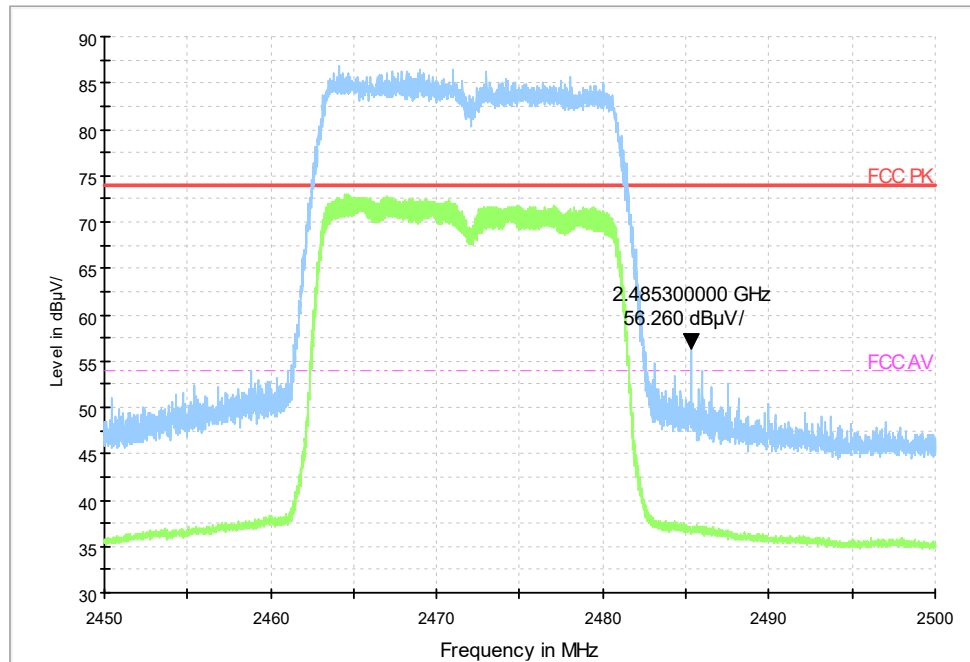


Fig.84 Frequency Band Edge: Ch11,11n(20M)

6.6. Transmitter Spurious Emission-Conducted

Specifications:	FCC 47 CFR Part15.247 (d)
DUT Serial Number:	865171050693608
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 26\text{GHz}$	± 2.7

Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.

2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.

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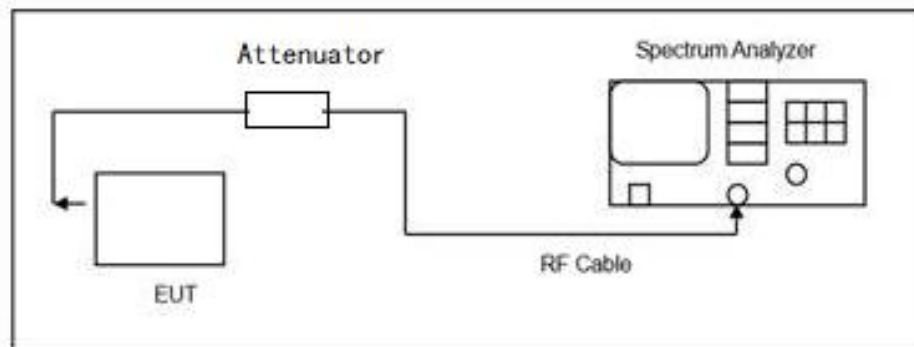
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11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW $\geq [3 \times \text{RBW}]$.
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

Test block diagram:



Test Result:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412GHz	Fig88	Pass
		30MHz~2.4GHz	Fig89	Pass
		2.4835GHz~26GHz	Fig90	Pass
	6	2.437GHz	Fig91	Pass
		30MHz~2.4GHz	Fig92	Pass
		2.4835GHz~26GHz	Fig93	Pass
	11	2.462GHz	Fig94	Pass
		30MHz~2.4GHz	Fig95	Pass
		2.4835GHz~26GHz	Fig96	Pass
802.11g	1	2.412GHz	Fig97	Pass
		30MHz~2.4GHz	Fig98	Pass
		2.4835GHz~26GHz	Fig99	Pass
	6	2.437GHz	Fig100	Pass
		30MHz~2.4GHz	Fig101	Pass
		2.4835GHz~26GHz	Fig102	Pass
	11	2.462GHz	Fig103	Pass
		30MHz~2.4GHz	Fig104	Pass
		2.4835GHz~26GHz	Fig105	Pass

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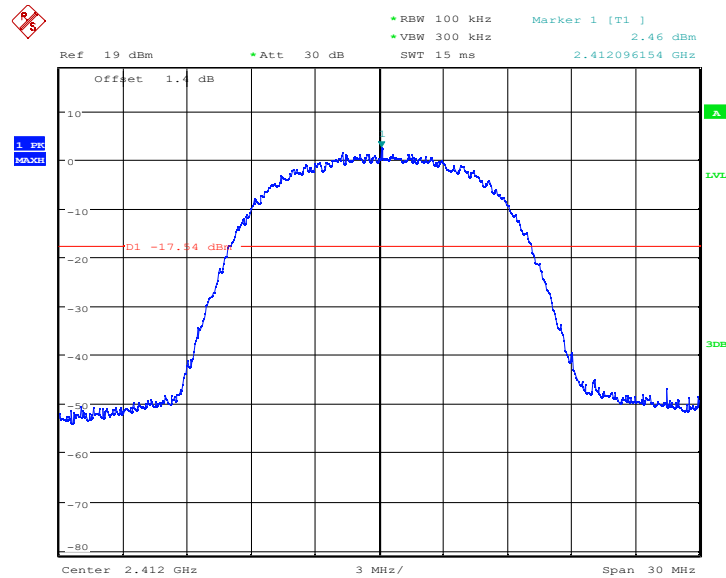
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802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412GHz	Fig106	Pass
		30MHz~2.4GHz	Fig107	Pass
		2.4835GHz~26GHz	Fig108	Pass
	6	2.437GHz	Fig109	Pass
		30MHz~2.4GHz	Fig110	Pass
		2.4835GHz~26GHz	Fig111	Pass
	11	2.462GHz	Fig112	Pass
		30MHz~2.4GHz	Fig113	Pass
		2.4835GHz~26GHz	Fig114	Pass

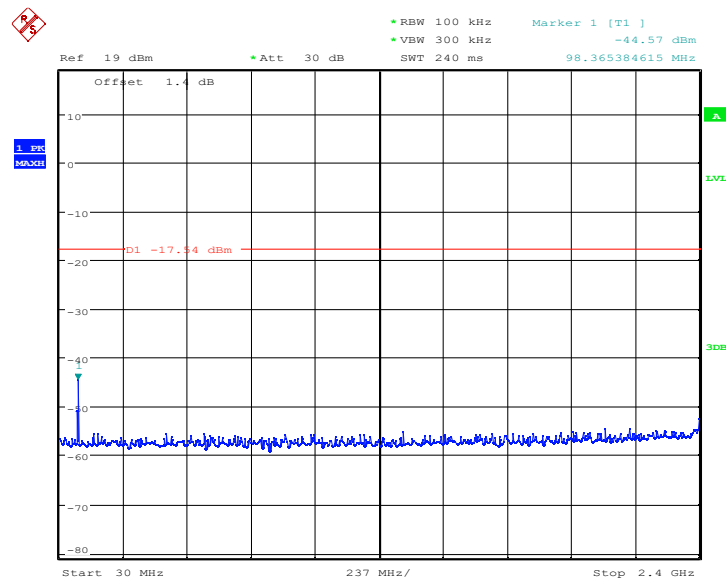
Conclusion: PASS

Test figure as below:



Date: 15.DEC.2021 02:54:46

Fig.85 Conducted spurious emission: Ch1,11b,2412MHz

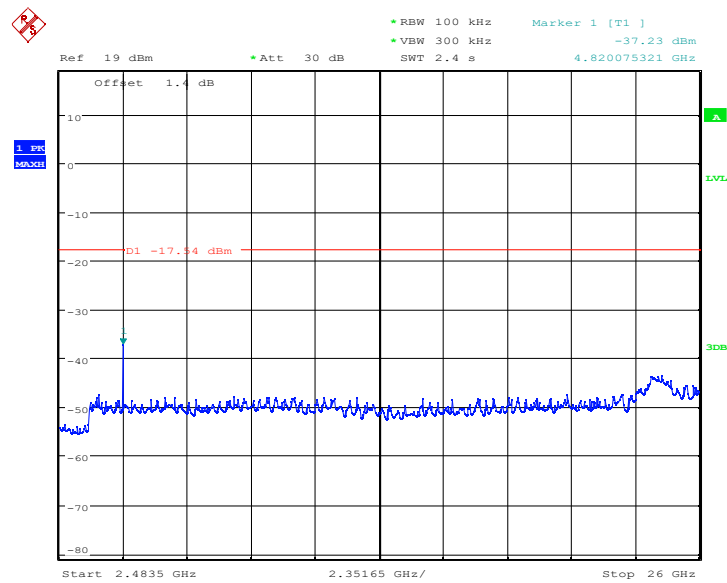


Date: 15.DEC.2021 02:55:26

Fig.86 Conducted spurious emission: Ch1,11b,30MHz~2.4GHz

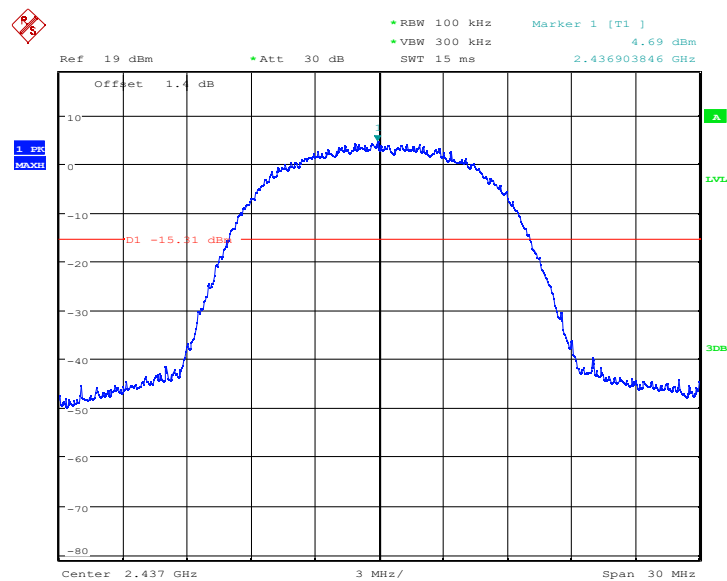
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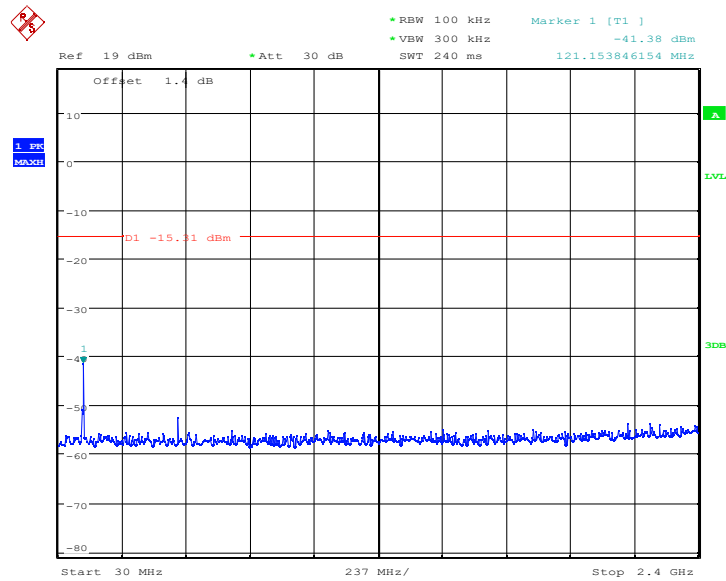
Date: 15.DEC.2021 02:55:58

Fig.87 Conducted spurious emission: Ch1,11b,2.4835GHz~26GHz



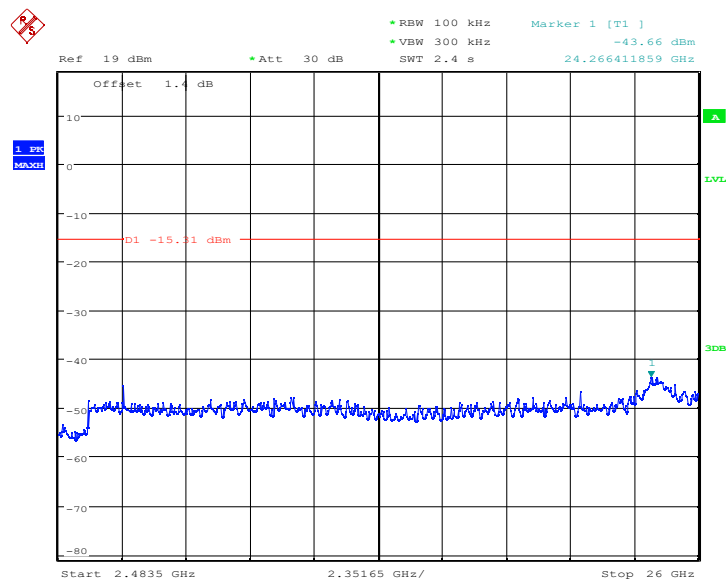
Date: 15.DEC.2021 02:57:24

Fig.88 Conducted spurious emission: Ch6,11b,2437MHz



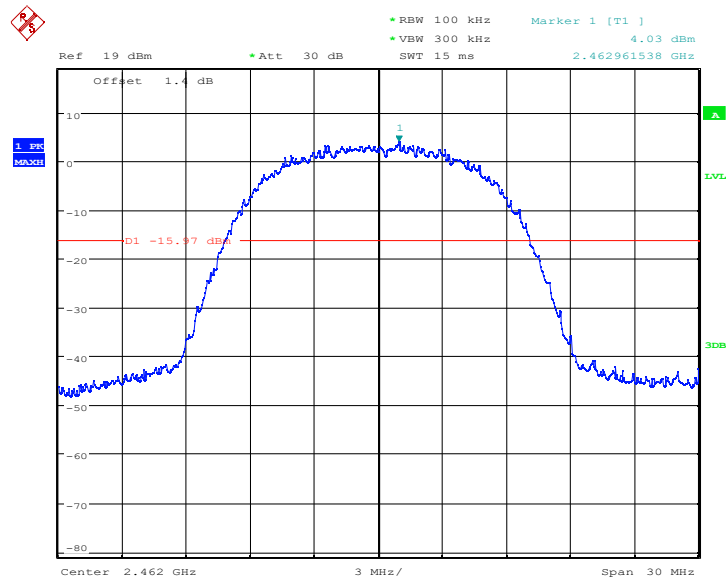
Date: 15.DEC.2021 02:57:37

Fig.89 Conducted spurious emission: Ch6,11b,30MHz~2.4GHz



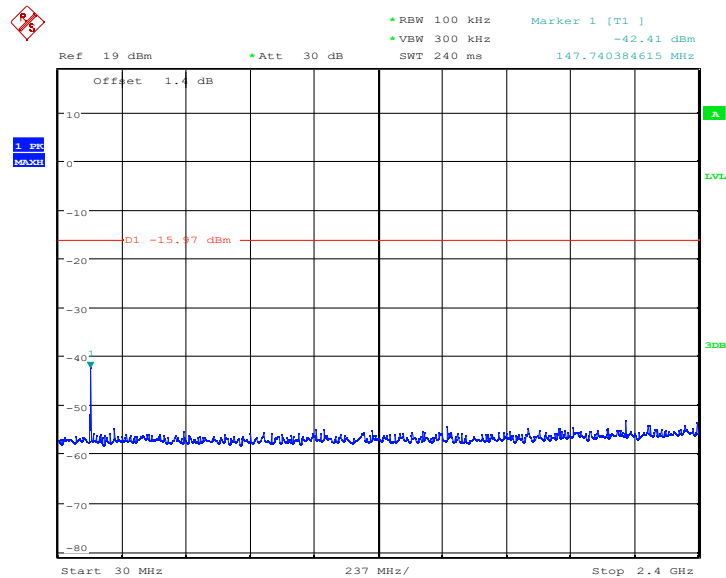
Date: 15.DEC.2021 02:57:53

Fig.90 Conducted spurious emission: Ch6,11b,2.4835GHz~26GHz



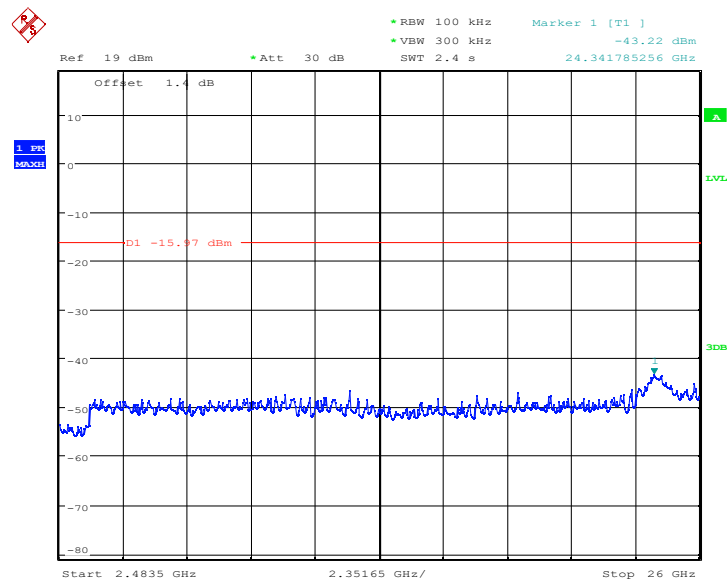
Date: 15.DEC.2021 02:58:34

Fig.91 Conducted spurious emission: Ch11,11b,2462MHz



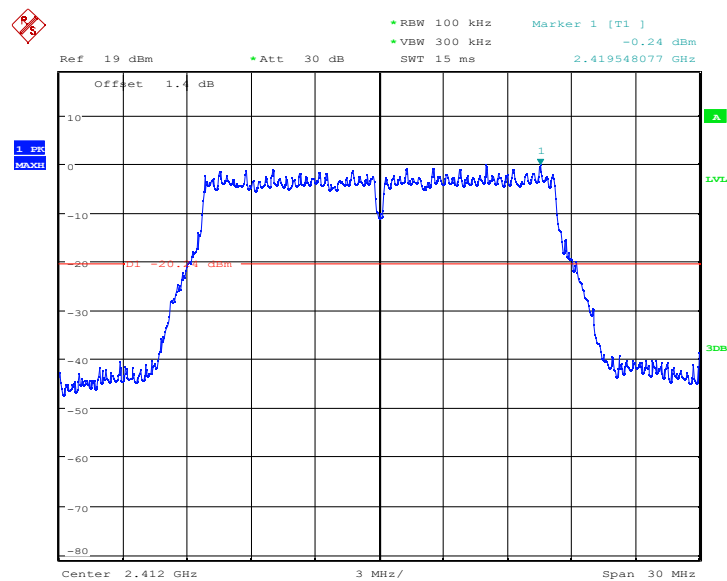
Date: 15.DEC.2021 02:58:55

Fig.92 Conducted spurious emission: Ch11,11b,30MHz~2.4GHz



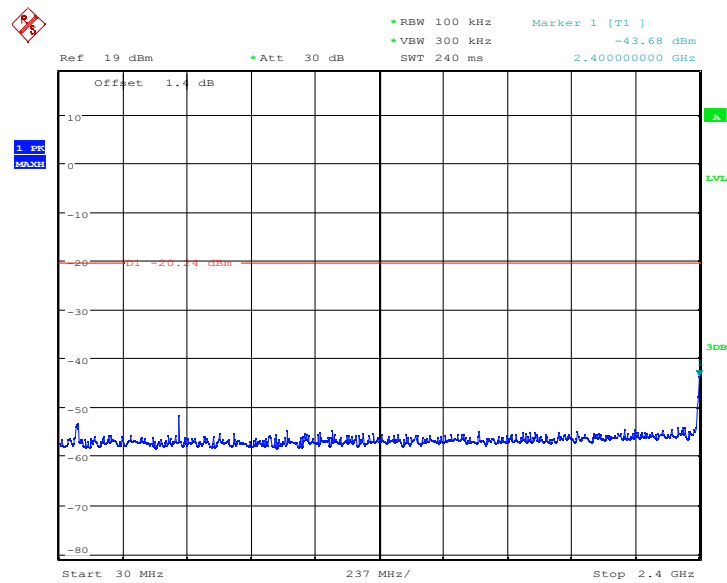
Date: 15.DEC.2021 02:59:28

Fig.93 Conducted spurious emission: Ch11,11b,2.4835GHz~26GHz



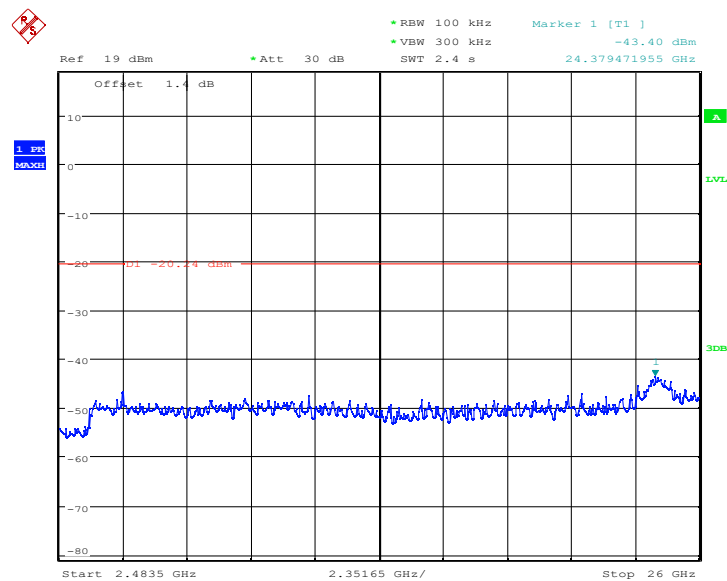
Date: 15.DEC.2021 03:01:01

Fig.94 Conducted spurious emission: Ch1,11g,2412MHz



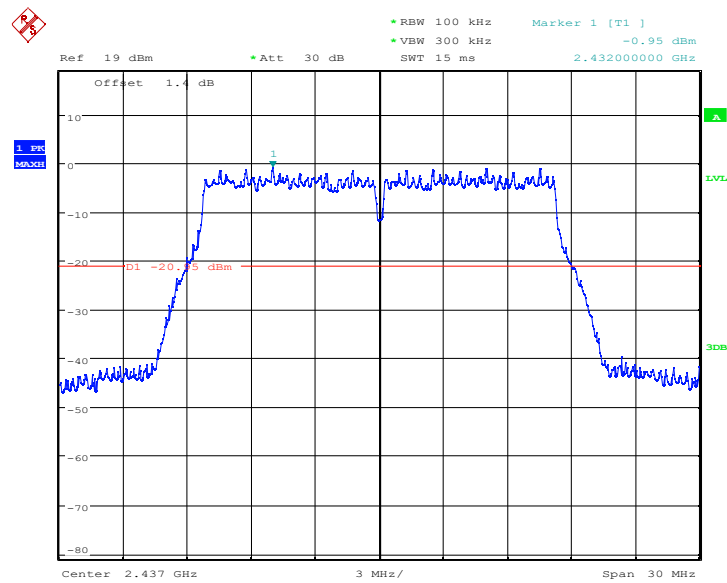
Date: 15.DEC.2021 03:01:21

Fig.95 Conducted spurious emission: Ch1,11g,30MHz~2.4GHz



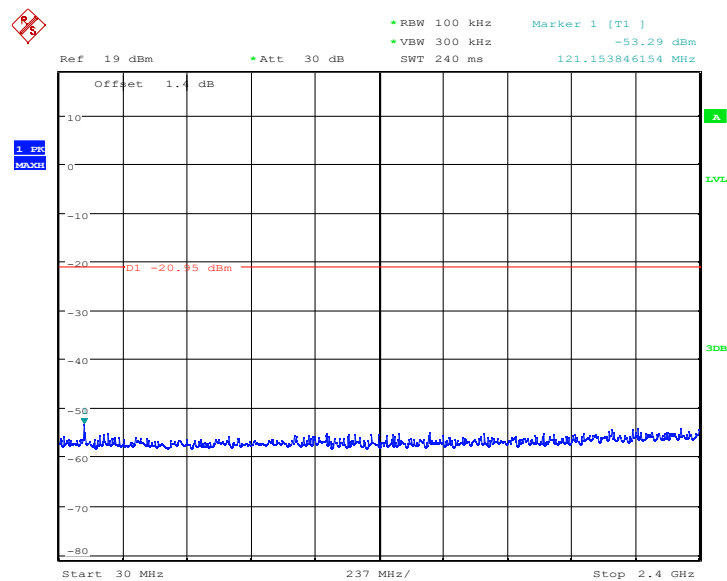
Date: 15.DEC.2021 03:01:36

Fig.96 Conducted spurious emission: Ch1,11g,2.4835GHz~26GHz



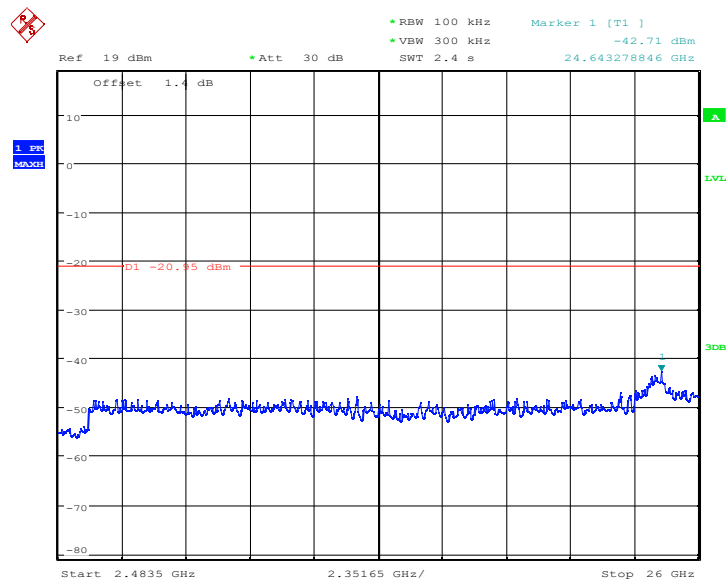
Date: 15.DEC.2021 03:02:18

Fig.97 Conducted spurious emission: Ch6,11g,2437MHz



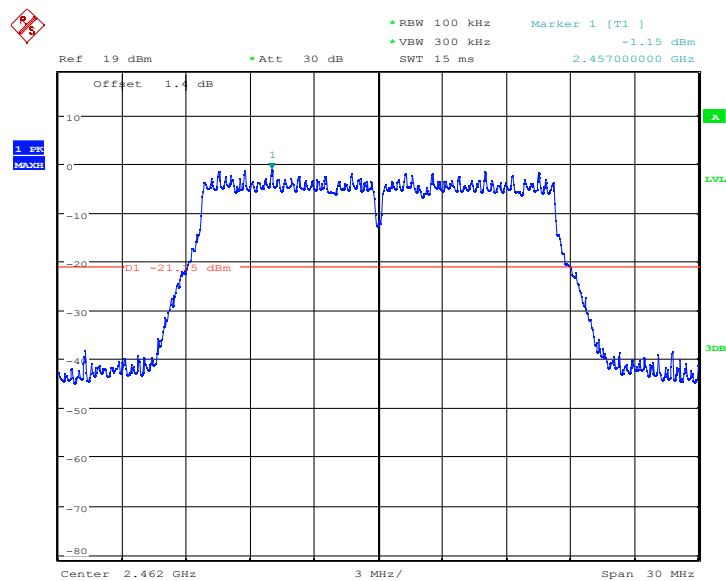
Date: 15.DEC.2021 03:02:31

Fig.98 Conducted spurious emission: Ch6,11g,30MHz~2.4GHz



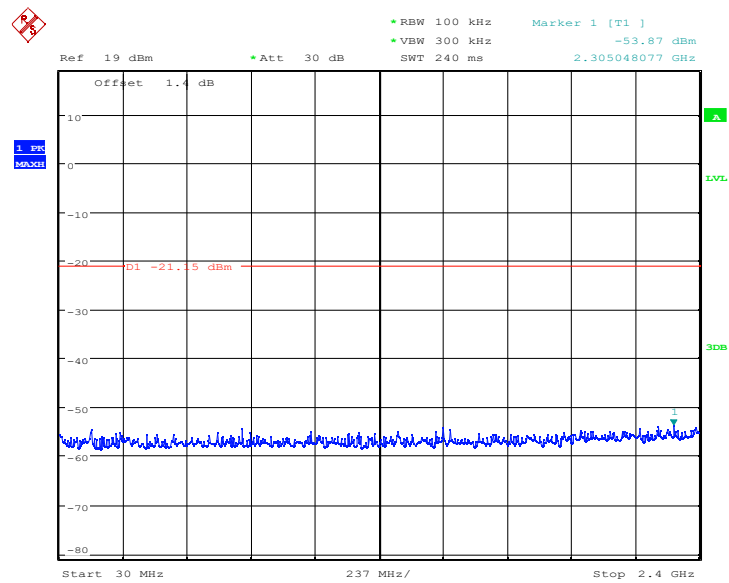
Date: 15.DEC.2021 03:02:48

Fig.99 Conducted spurious emission: Ch6,11g,2.4835GHz~26GHz



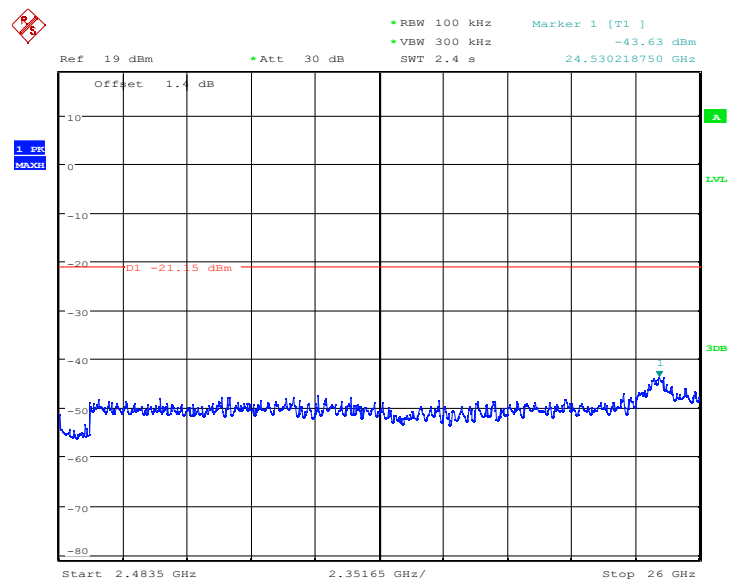
Date: 15.DEC.2021 03:03:19

Fig.100 Conducted spurious emission: Ch11,11g,2462MHz



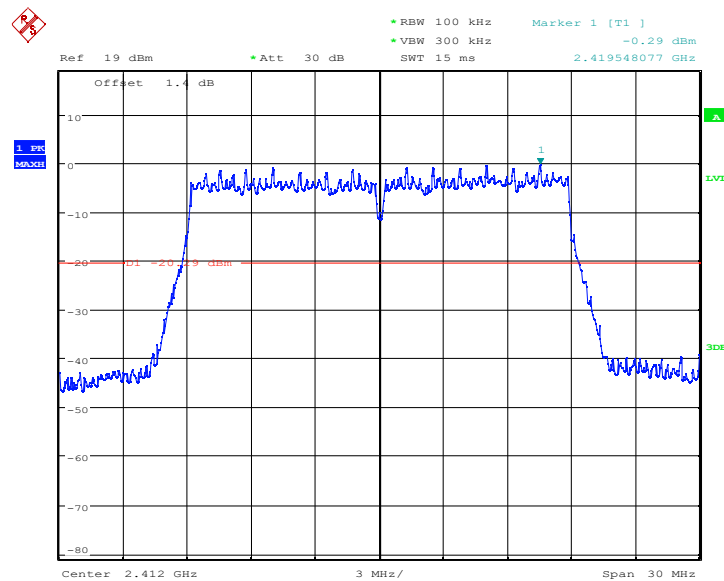
Date: 15.DEC.2021 03:03:31

Fig.101 Conducted spurious emission: Ch11,11g,30MHz~2.4GHz



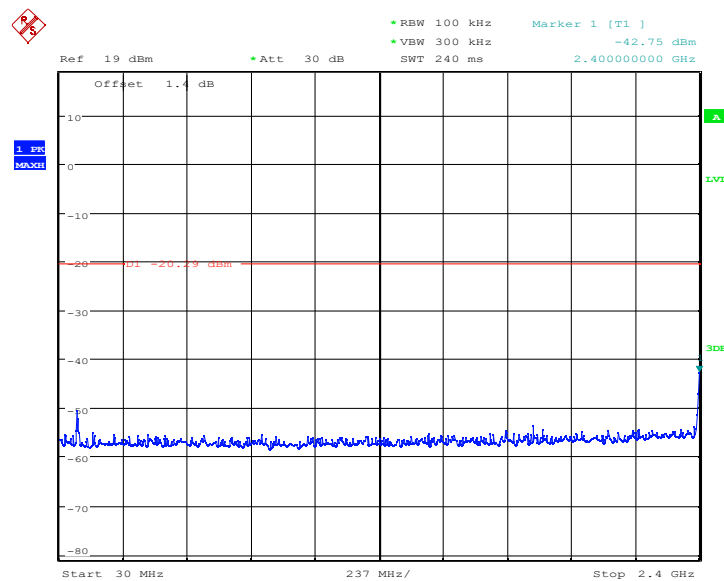
Date: 15.DEC.2021 03:03:45

Fig.102 Conducted spurious emission: Ch11,11g,2.4835GHz~26GHz



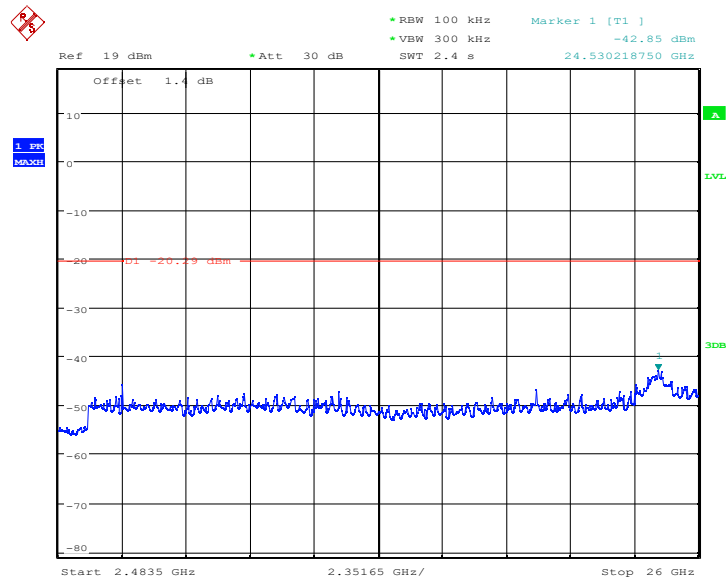
Date: 15.DEC.2021 03:06:02

Fig.103 Conducted spurious emission: Ch1,11n,2412MHz



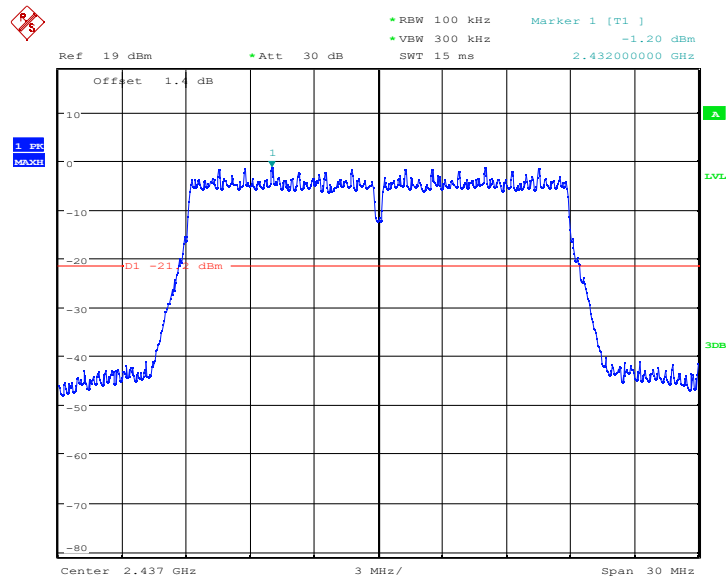
Date: 15.DEC.2021 03:06:18

Fig.104 Conducted spurious emission: Ch1,11n,30MHz~2.4GHz



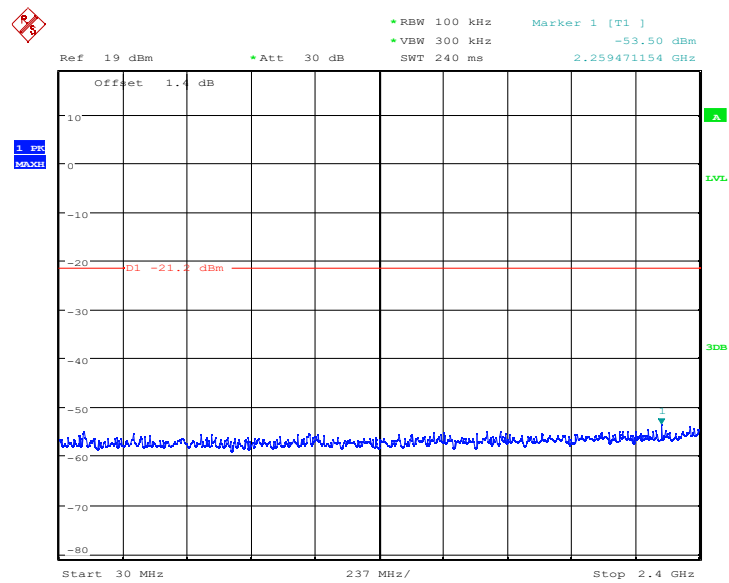
Date: 15.DEC.2021 03:06:34

Fig.105 Conducted spurious emission: Ch1,11n,2.4835GHz~26GHz



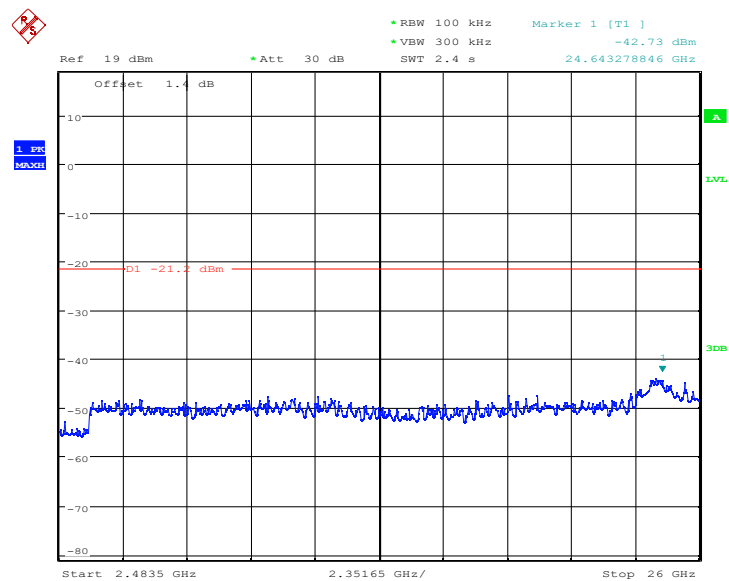
Date: 15.DEC.2021 03:05:12

Fig.106 Conducted spurious emission: Ch6,11n,2437MHz



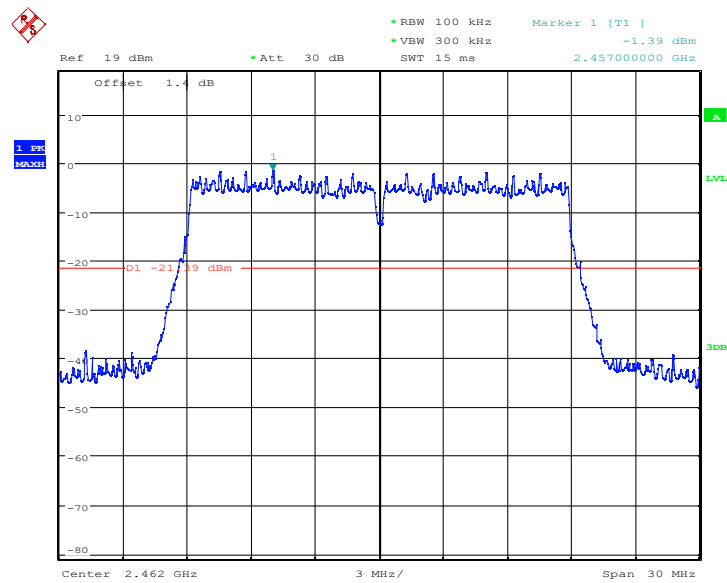
Date: 15.DEC.2021 03:05:24

Fig.107 Conducted spurious emission: Ch6,11n,30MHz~2.4GHz



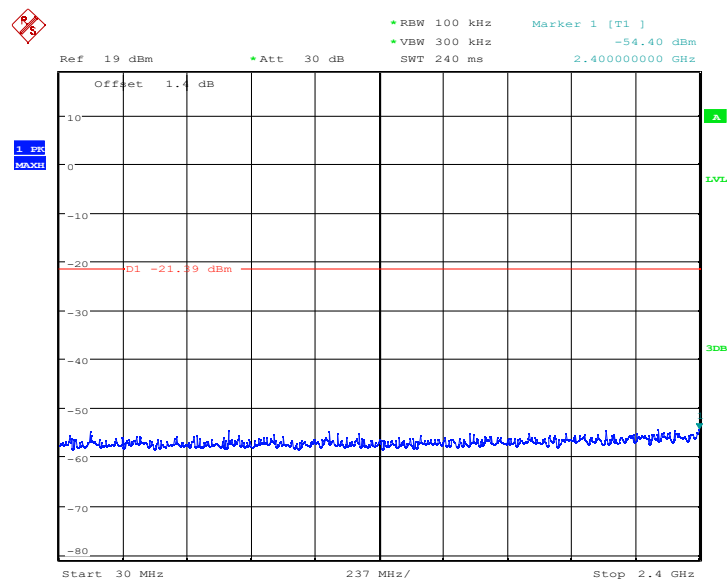
Date: 15.DEC.2021 03:05:39

Fig.108 Conducted spurious emission: Ch6,11n,2.4835GHz~26GHz



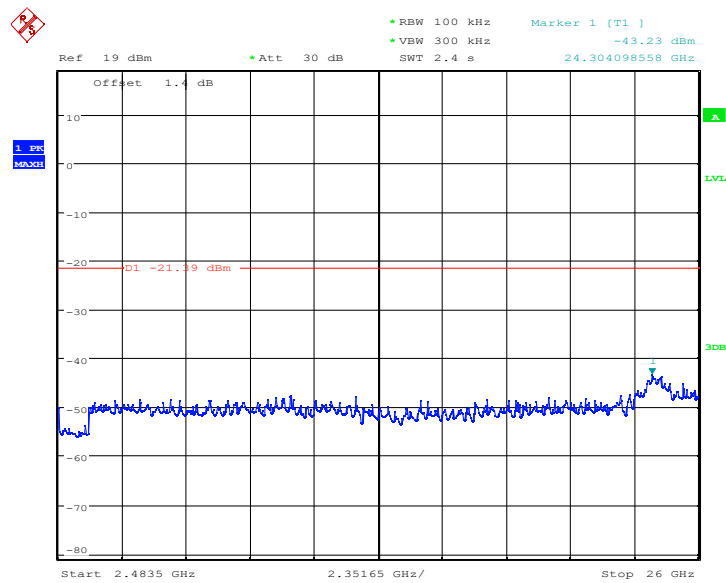
Date: 15.DEC.2021 03:04:20

Fig.109 Conducted spurious emission: Ch11,11n,2462MHz



Date: 15.DEC.2021 03:04:32

Fig.110 Conducted spurious emission: Ch11,11n,30MHz~2.4GHz



Date: 15.DEC.2021 03:04:45

Fig.111 Conducted spurious emission: Ch11,11n,2.4835GHz~26GHz

6.7. Transmitter Spurious Emission-Radiated

Specifications:	FCC 47 CFR Part 15.247, 15.205, 15.209
DUT Serial Number:	860371050880503
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Measurement Uncertainty:

Frequency Range	Uncertainty
$9\text{kHz} \leq f \leq 30\text{MHz}$	4.54dB
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.09dB
$1\text{GHz} \leq f \leq 6\text{GHz}$	4.84dB
$6\text{GHz} \leq f \leq 18\text{GHz}$	4.52dB
$18\text{GHz} \leq f \leq 26.5\text{GHz}$	6.19dB

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Measurement distance (meters)
0.009-0.49	2400/F(kHz)	300
0.49-1.705	24000/F(kHz)	30
1.705-30	30	30

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40

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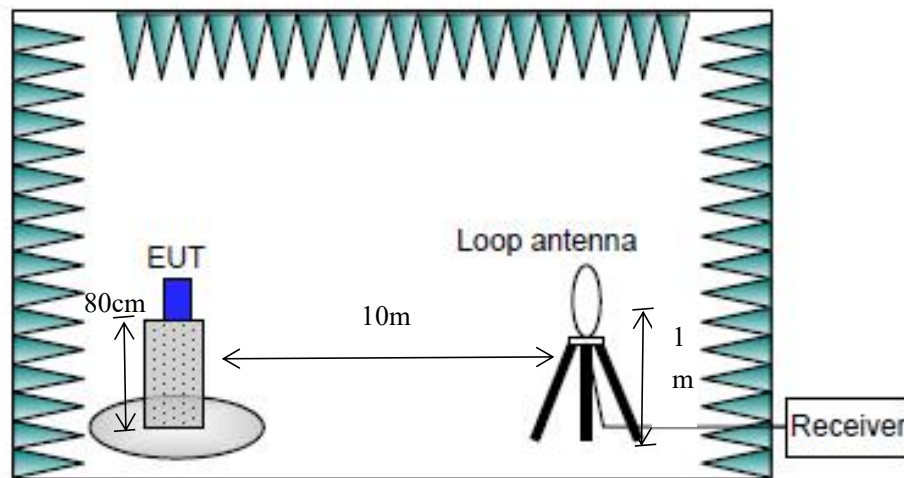
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88~216	150	43.5
216~960	200	46
Above 960	500	54

Test Setup

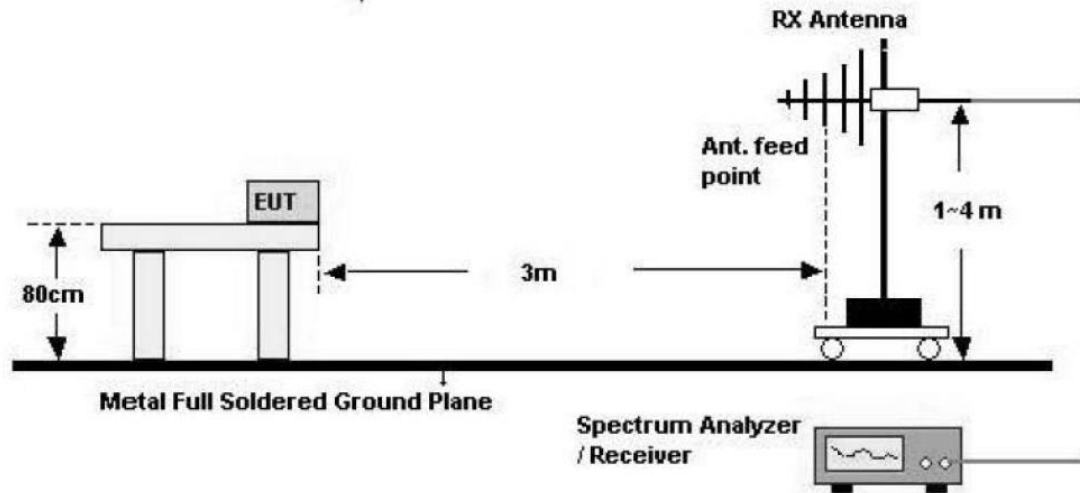
The EUT was placed in an anechoic chamber.. The transmitter output is connected to Spectrum analyzer through a loop antenna (for frequency below 30MHz) or a Bilog antenna (for frequency 30MHz-1GHz) or a horn antenna (for frequency above 1GHz).

Below 30MHz:

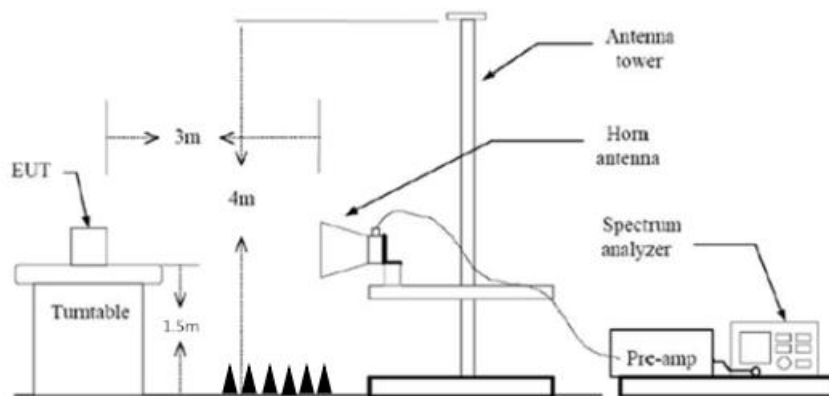

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30MHz-1GHz:



Above 1GHz:



Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3

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meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20

Test Result:

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR_{pi}= Cable loss + Antenna Gain-Preamplifier gain

Result=PM_{ea} + AR_{pi}

Channel	Frequency Range	Test Results	Conclusion
All channels	30MH-1GHz	Fig.151	Pass
11b Ch1	1GHz-3GHz	Fig.152	Pass
	3GHz-18GHz	Fig.153	Pass
11b Ch6	1GHz-3GHz	Fig.154	Pass
	3GHz-18GHz	Fig.155	Pass
11b Ch11	1GHz-3GHz	Fig.156	Pass
	3GHz-18GHz	Fig.157	Pass
11g Ch1	1GHz-3GHz	Fig.158	Pass
	3GHz-18GHz	Fig.159	Pass
11g Ch 6	1GHz-3GHz	Fig.160	Pass
	3GHz-18GHz	Fig.161	Pass

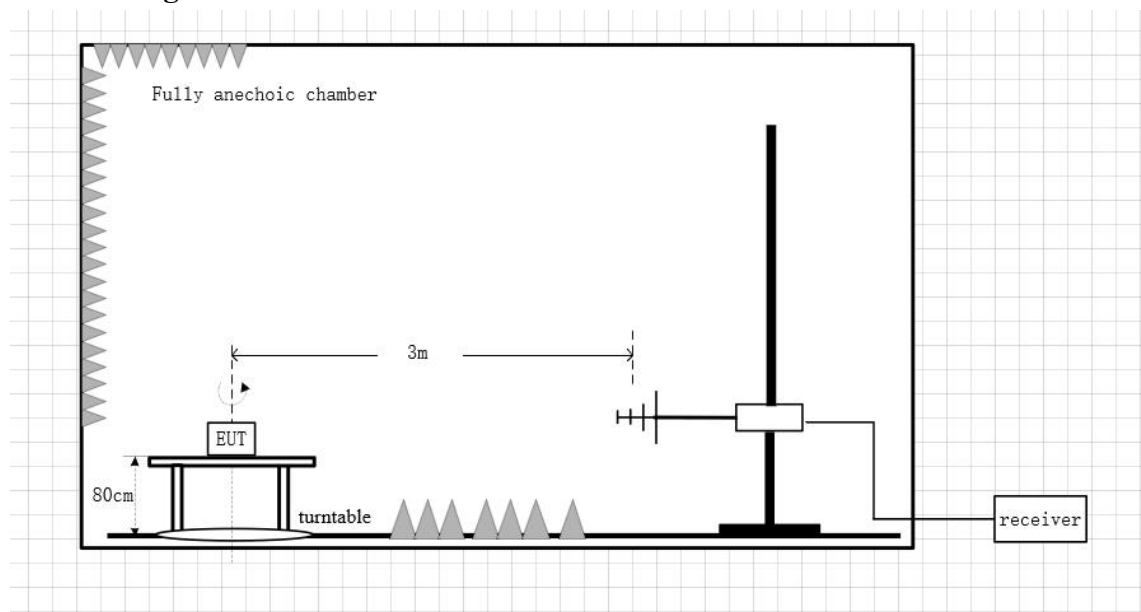
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11g Ch 11	1GHz-3GHz	Fig.162	Pass
	3GHz-18GHz	Fig.163	Pass
11n Ch1(20M)	1GHz-3GHz	Fig.164	Pass
	3GHz-18GHz	Fig.165	Pass
11n Ch 6(20M)	1GHz-3GHz	Fig.166	Pass
	3GHz-18GHz	Fig.167	Pass
11n Ch 11(20M)	1GHz-3GHz	Fig.168	Pass
	3GHz-18GHz	Fig.169	Pass
All channels	18GHz-26GHz	Fig.170	Pass

Note: all the test data shown was peak detected.

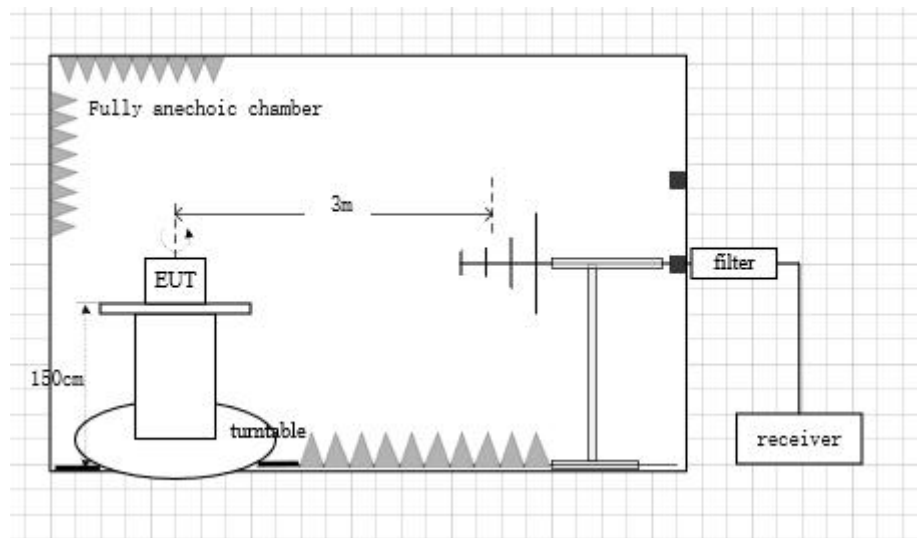
Test block diagram:



30MHz-1GHz

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Above 1GHz

Note: Transmitter Spurious Emission-Radiated H and V are tested together., The test is maximum hold. Therefore, the result is only one set of data

Conclusion: PASS

Test graphs as below:

RE 30MHz-1GHz

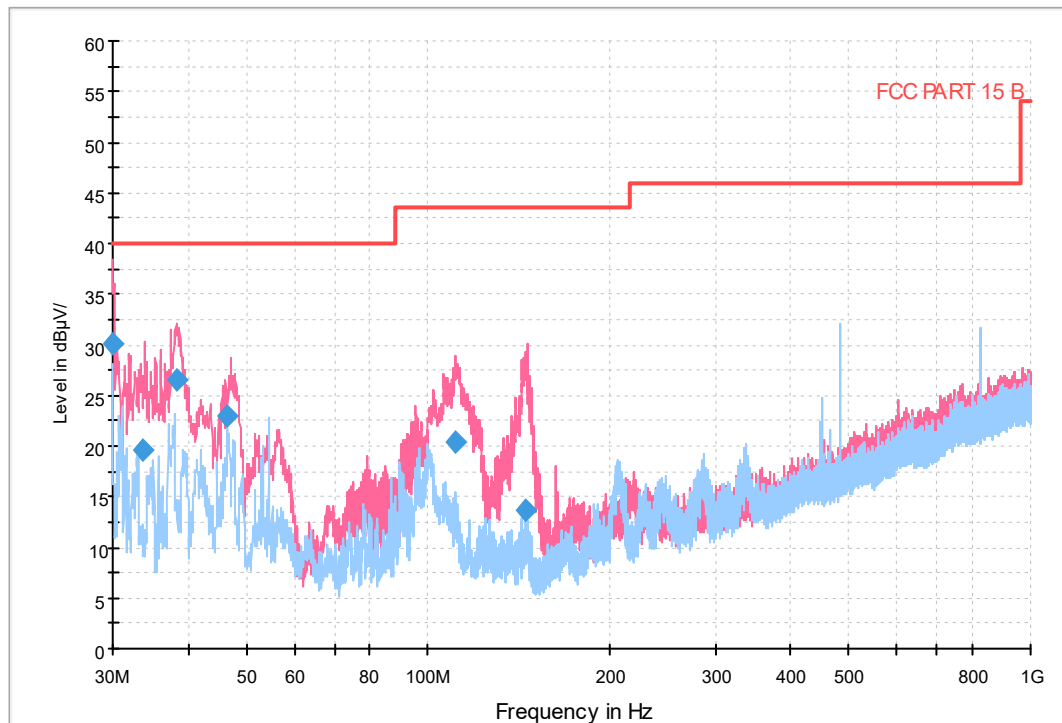


Fig.112 Radiated emission: 11n Ch6, 30MHz-1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.000000	30.2	40.0	9.8	1000.0	120.000	185.0	V	268.0
33.577000	19.6	40.0	20.4	1000.0	120.000	185.0	V	268.0
38.342000	26.6	40.0	13.4	1000.0	120.000	185.0	V	268.0
46.572000	23.1	40.0	16.9	1000.0	120.000	100.0	V	80.0
111.243500	20.4	43.5	23.1	1000.0	120.000	100.0	V	80.0
145.463500	13.7	43.5	29.8	1000.0	120.000	100.0	V	170.0

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RE 1GHz-3GHz

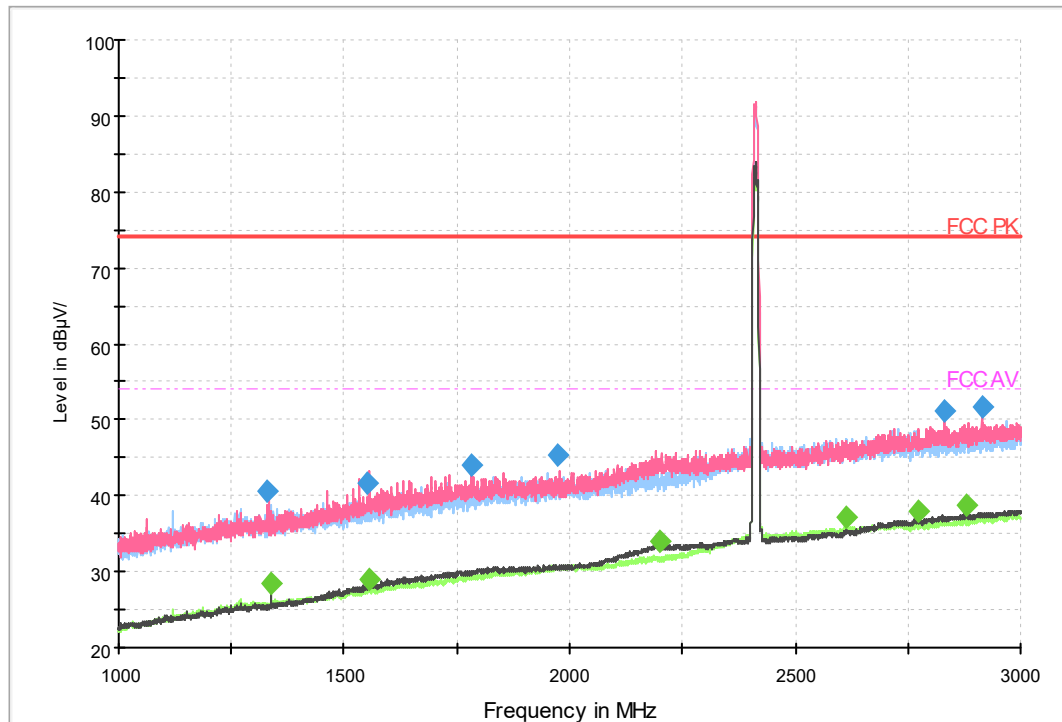


Fig.113 Radiated emission: 11b Ch1, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1329.200000	40.6	---	74.00	33.4	50.0	1000.000	100.0	V	15.0
1549.800000	41.7	---	74.00	32.3	50.0	1000.000	100.0	V	83.0
1781.000000	43.9	---	74.00	30.1	50.0	1000.000	100.0	V	255.0
1972.000000	45.5	---	74.00	28.5	50.0	1000.000	100.0	V	-15.0
2830.400000	51.2	---	74.00	22.8	50.0	1000.000	100.0	V	15.0
2914.600000	51.6	---	74.00	22.4	50.0	1000.000	100.0	V	105.0
1329.200000	---	28.5	54.00	25.5	50.0	1000.000	100.0	H	285.0
1549.800000	---	29.0	54.00	25.0	50.0	1000.000	100.0	V	83.0
1781.000000	---	34.1	54.00	19.9	50.0	1000.000	100.0	V	285.0
1972.000000	---	37.0	54.00	17.0	50.0	1000.000	100.0	H	255.0
2830.400000	---	38.0	54.00	16.0	50.0	1000.000	100.0	V	165.0
2914.600000	---	38.6	54.00	15.4	50.0	1000.000	100.0	V	285.0

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RE 3GHz-18GHz

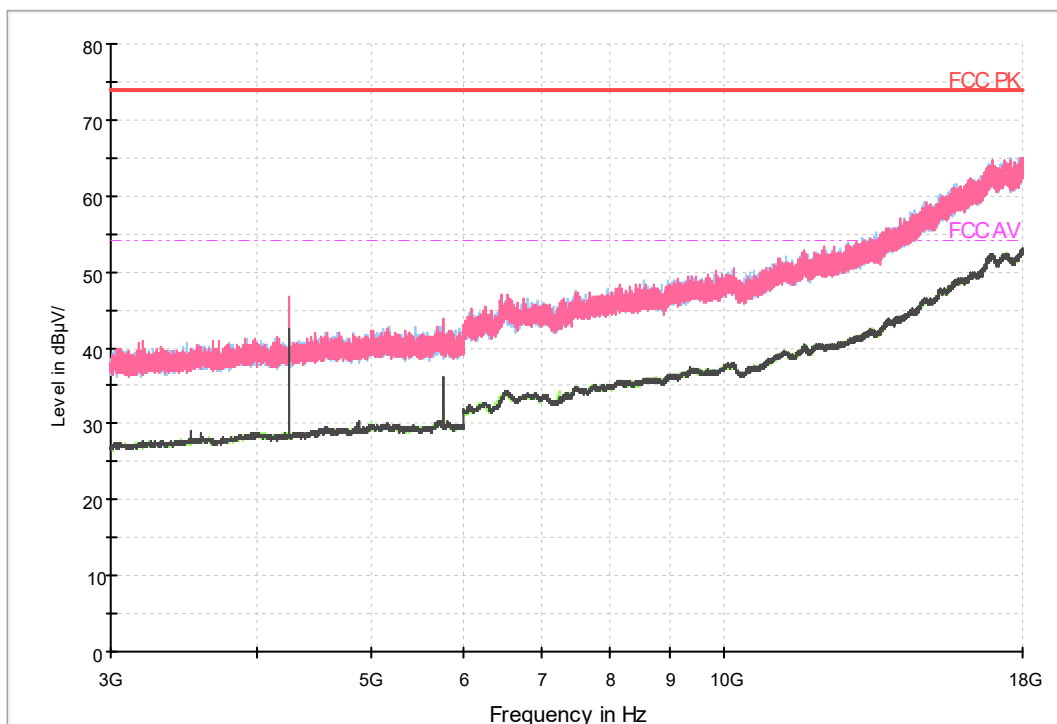


Fig.114 Radiated emission: 11b Ch1, 3GHz-18GHz

RE 1GHz-3GHz

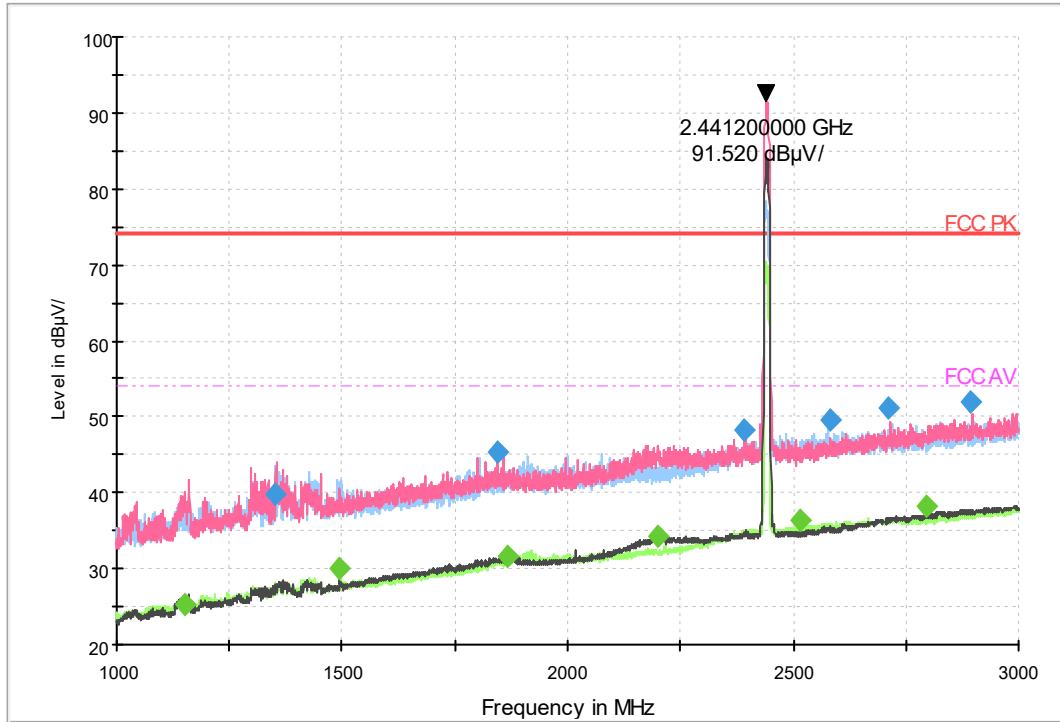


Fig.115 Radiated emission:11b Ch6,1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1351.600000	39.9	---	74.00	34.1	50.0	1000.000	100.0	V	195.0
1845.800000	45.4	---	74.00	28.6	50.0	1000.000	100.0	V	184.0
2393.000000	48.4	---	74.00	25.6	50.0	1000.000	100.0	H	270.0
2582.200000	49.6	---	74.00	24.4	50.0	1000.000	100.0	H	285.0
2712.200000	51.2	---	74.00	22.8	50.0	1000.000	100.0	V	255.0
2894.600000	51.8	---	74.00	22.2	50.0	1000.000	100.0	V	105.0
1152.200000	---	25.4	54.00	28.6	50.0	1000.000	100.0	V	195.0
1494.200000	---	30.2	54.00	23.8	50.0	1000.000	100.0	H	173.0
1866.400000	---	31.6	54.00	22.4	50.0	1000.000	100.0	H	270.0
2199.600000	---	34.3	54.00	19.7	50.0	1000.000	100.0	V	285.0
2514.800000	---	36.5	54.00	17.5	50.0	1000.000	100.0	H	195.0
2793.800000	---	38.1	54.00	15.9	50.0	1000.000	100.0	V	105.0

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RE 3GHz-18GHz

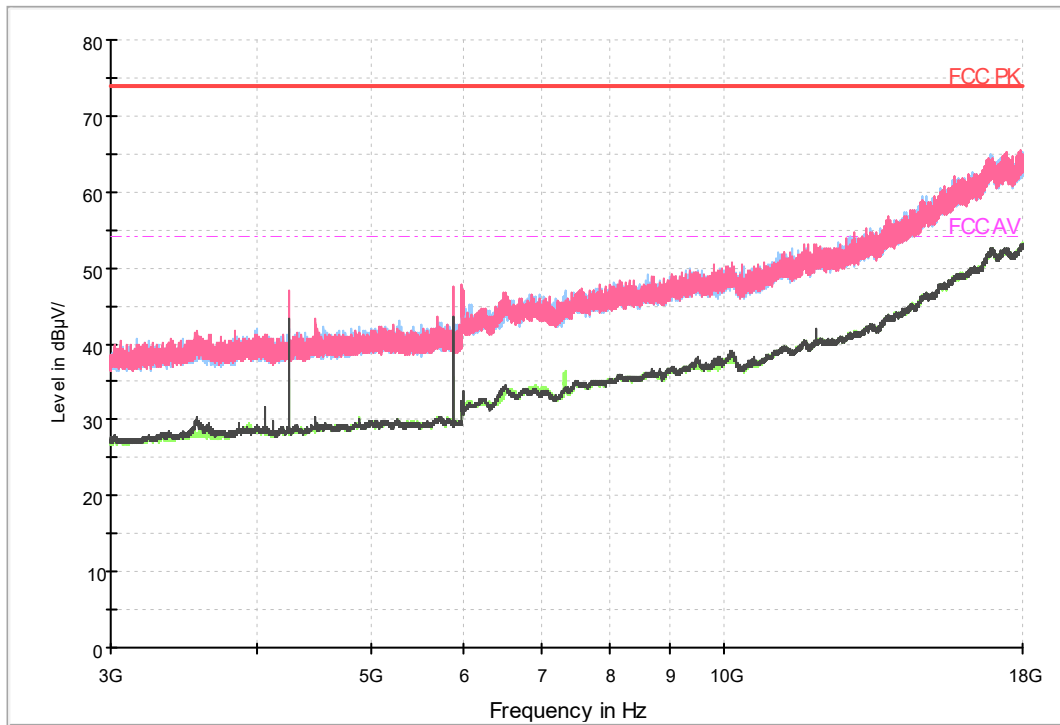


Fig.116 Radiated emission: 11b Ch6, 3GHz-18GHz

RE 1GHz-3GHz

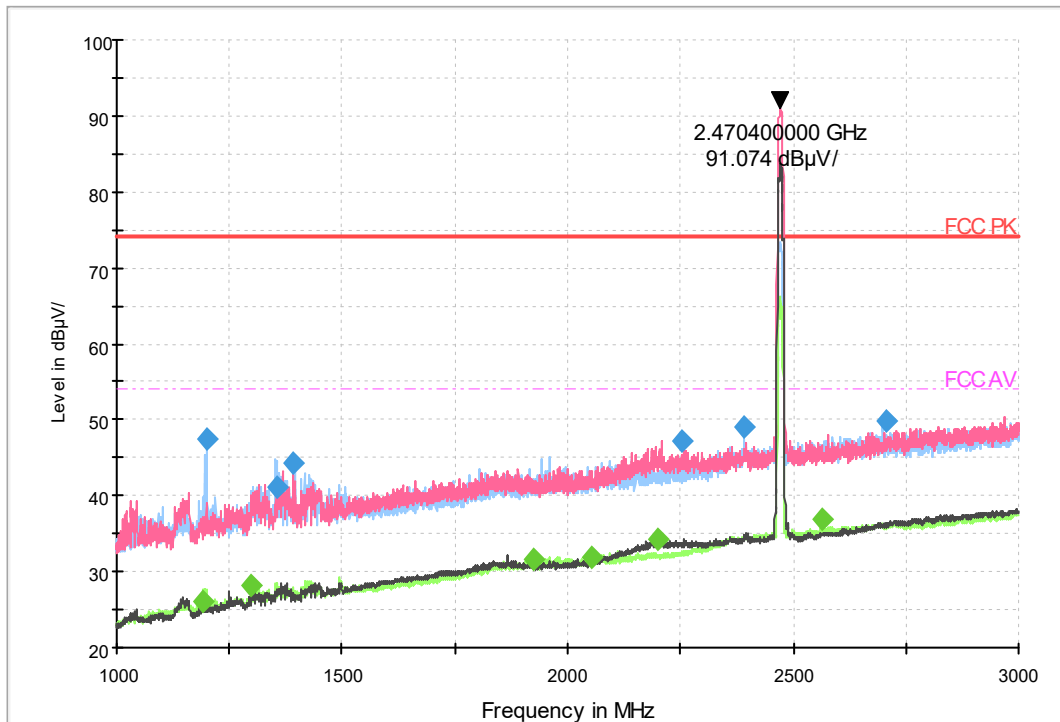


Fig.117 Radiated emission: 11b Ch11, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1198.200000	47.5	---	74.00	26.5	50.0	1000.000	100.0	H	75.0
1355.200000	41.2	---	74.00	32.8	50.0	1000.000	100.0	H	105.0
1391.000000	44.2	---	74.00	29.8	50.0	1000.000	100.0	H	263.0
2252.400000	47.3	---	74.00	26.7	50.0	1000.000	100.0	V	285.0
2389.800000	48.9	---	74.00	25.1	50.0	1000.000	100.0	H	84.0
2704.600000	49.9	---	74.00	24.1	50.0	1000.000	100.0	H	93.0
1990.800000	---	26.1	54.00	27.9	50.0	1000.000	100.0	H	105.0
1997.800000	---	28.1	54.00	25.9	50.0	1000.000	100.0	H	285.0
1380.800000	---	31.6	54.00	22.4	50.0	1000.000	100.0	H	270.0
1379.800000	---	31.9	54.00	22.1	50.0	1000.000	100.0	H	273.0
2589.400000	---	34.3	54.00	19.7	50.0	1000.000	100.0	V	285.0
2581.400000	---	36.8	54.00	17.2	50.0	1000.000	100.0	H	255.0

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RE 3GHz-18GHz

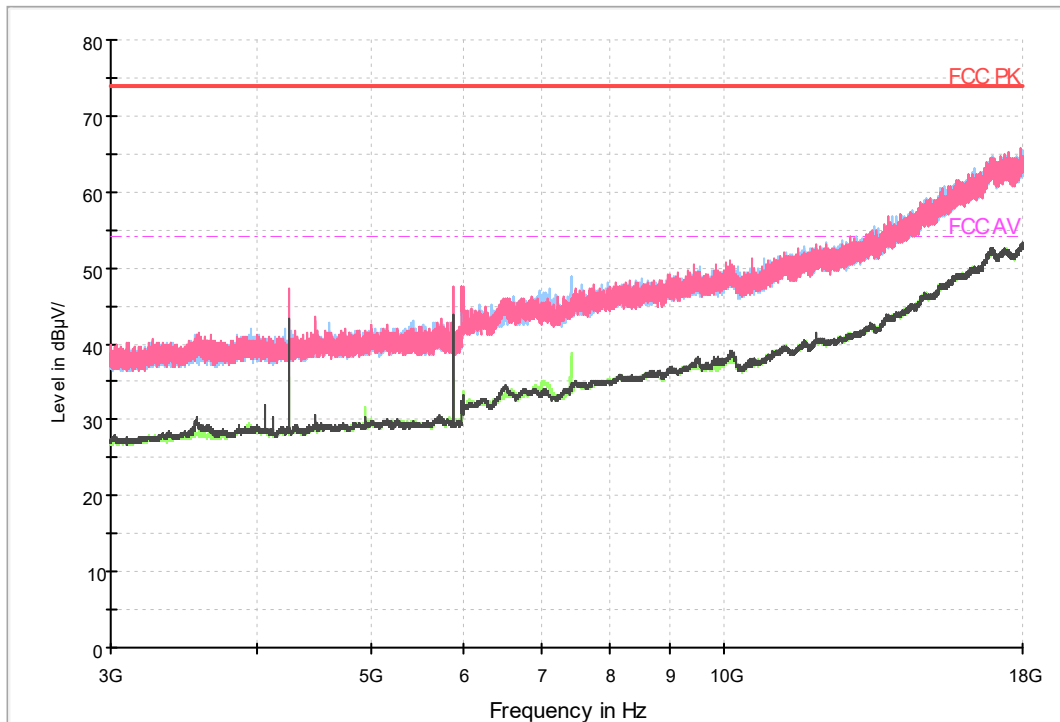


Fig.118 Radiated emission: 11b Ch11, 3GHz-18GHz

RE 1GHz-3GHz

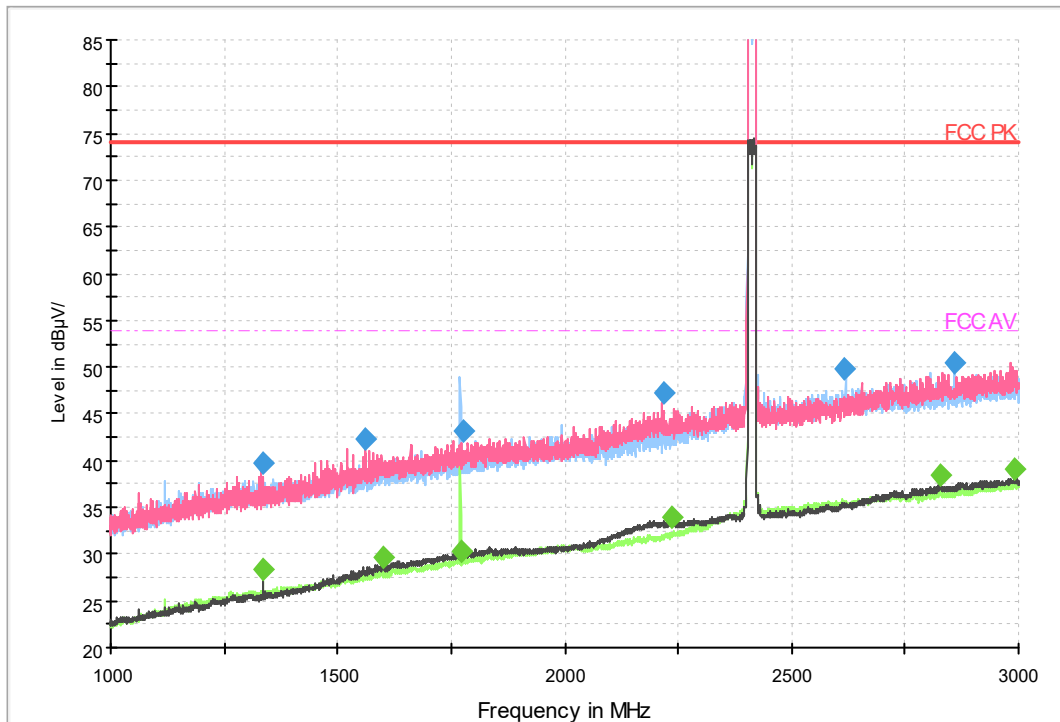


Fig.119 Radiated emission: 11g Ch1, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1335.800000	39.7	---	74.00	34.3	50.0	1000.000	100.0	V	4.0
1562.600000	42.4	---	74.00	31.6	50.0	1000.000	100.0	V	93.0
1775.000000	43.2	---	74.00	30.8	50.0	1000.000	100.0	H	285.0
2216.800000	47.2	---	74.00	26.8	50.0	1000.000	100.0	V	165.0
2614.400000	49.8	---	74.00	24.2	50.0	1000.000	100.0	H	255.0
2858.000000	50.4	---	74.00	23.6	50.0	1000.000	100.0	H	285.0
1335.800000	---	28.4	54.00	25.6	50.0	1000.000	100.0	V	4.0
1562.600000	---	29.6	54.00	24.4	50.0	1000.000	100.0	V	93.0
1775.000000	---	30.3	54.00	23.7	50.0	1000.000	100.0	H	285.0
2216.800000	---	34.0	54.00	20.0	50.0	1000.000	100.0	V	165.0
2614.400000	---	38.4	54.00	15.6	50.0	1000.000	100.0	H	255.0
2858.000000	---	39.2	54.00	14.8	50.0	1000.000	100.0	H	285.0

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RE 3GHz-18GHz

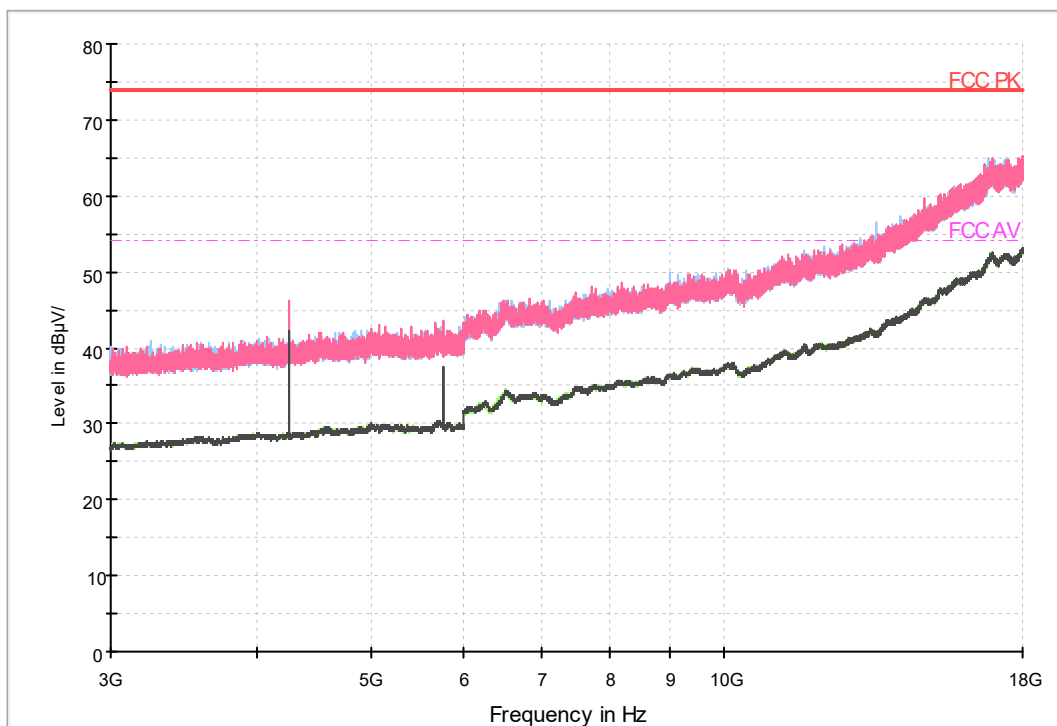


Fig.120 Radiated emission: 11g Ch1, 3GHz-18GHz

RE 1GHz-3GHz

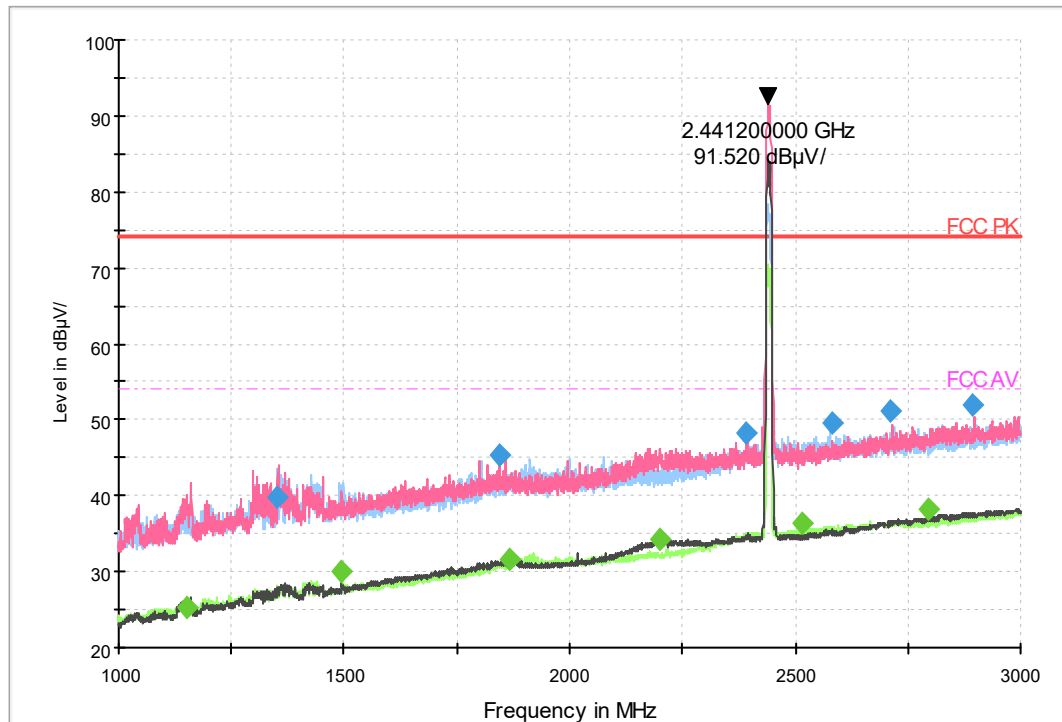


Fig.121 Radiated emission: 11g Ch6, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1351.600000	39.9	---	74.00	34.1	50.0	1000.000	100.0	V	195.0
1845.800000	45.4	---	74.00	28.6	50.0	1000.000	100.0	V	184.0
2393.000000	48.4	---	74.00	25.6	50.0	1000.000	100.0	H	270.0
2582.200000	49.6	---	74.00	24.4	50.0	1000.000	100.0	H	285.0
2712.200000	51.2	---	74.00	22.8	50.0	1000.000	100.0	V	255.0
2894.600000	51.8	---	74.00	22.2	50.0	1000.000	100.0	V	105.0
1152.200000	---	25.4	54.00	28.6	50.0	1000.000	100.0	V	195.0
1494.200000	---	30.2	54.00	23.8	50.0	1000.000	100.0	H	173.0
1866.400000	---	31.6	54.00	22.4	50.0	1000.000	100.0	H	270.0
2199.600000	---	34.3	54.00	19.7	50.0	1000.000	100.0	V	285.0
2514.800000	---	36.5	54.00	17.5	50.0	1000.000	100.0	H	195.0
2793.800000	---	38.1	54.00	15.9	50.0	1000.000	100.0	V	105.0

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RE 3GHz-18GHz

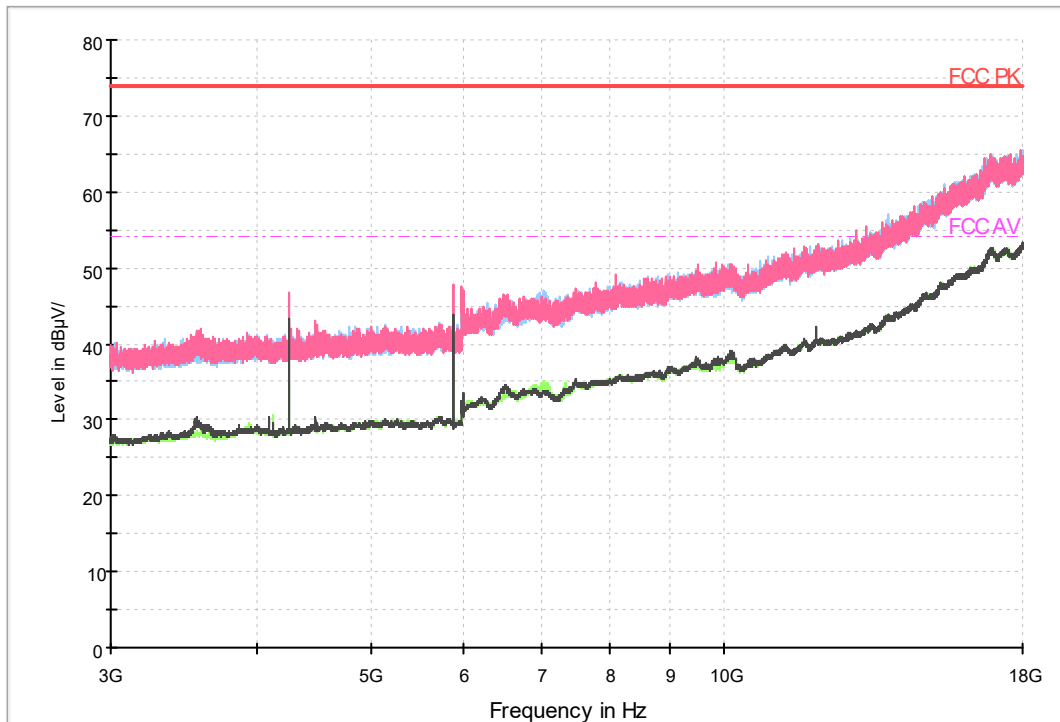


Fig.122 Radiated emission: 11g Ch6, 3GHz-18GHz

RE 1GHz-3GHz

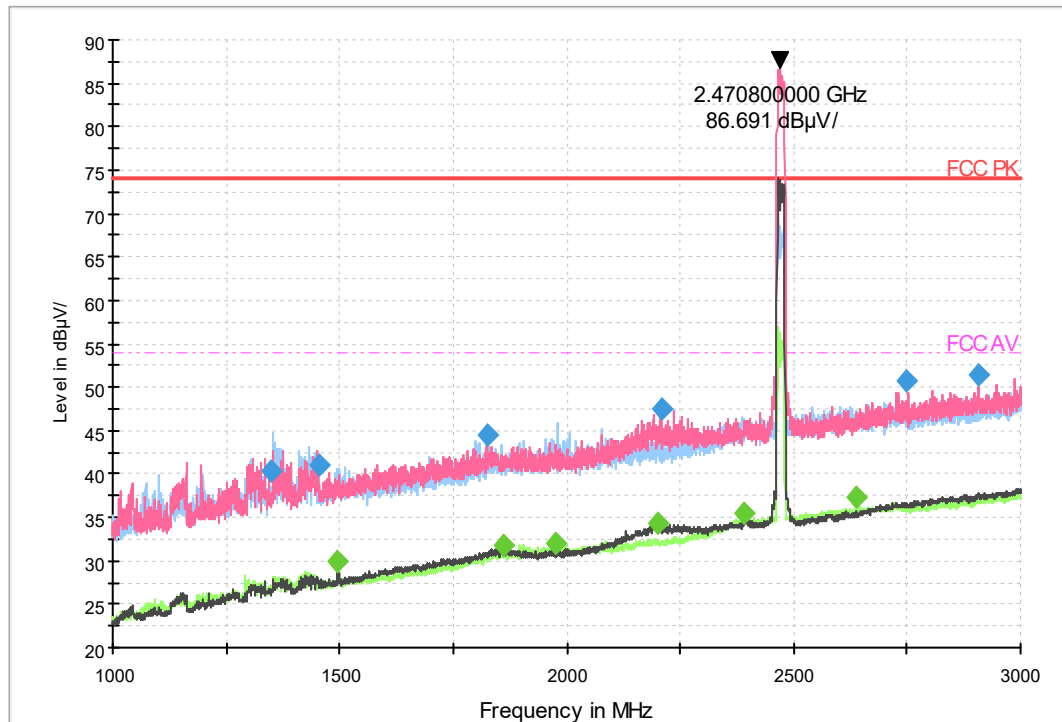


Fig.123 Radiated emission: 11g Ch11, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1348.600000	40.4	---	74.00	33.6	50.0	1000.000	100.0	H	83.0
1456.600000	40.9	---	74.00	33.1	50.0	1000.000	100.0	V	174.0
1825.600000	44.5	---	74.00	29.5	50.0	1000.000	100.0	V	285.0
2208.600000	47.5	---	74.00	26.5	50.0	1000.000	100.0	V	285.0
2750.200000	50.7	---	74.00	23.3	50.0	1000.000	100.0	V	285.0
2907.400000	51.4	---	74.00	22.6	50.0	1000.000	100.0	V	105.0
1494.200000	---	29.9	54.00	24.1	50.0	1000.000	100.0	H	174.0
1862.800000	---	31.8	54.00	22.2	50.0	1000.000	100.0	V	90.0
1975.600000	---	32.0	54.00	22.0	50.0	1000.000	100.0	H	274.0
2201.200000	---	34.3	54.00	19.7	50.0	1000.000	100.0	V	285.0
2391.200000	---	35.5	54.00	18.5	50.0	1000.000	100.0	V	105.0
2637.800000	---	37.3	54.00	16.7	50.0	1000.000	100.0	H	195.0

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RE 3GHz-18GHz

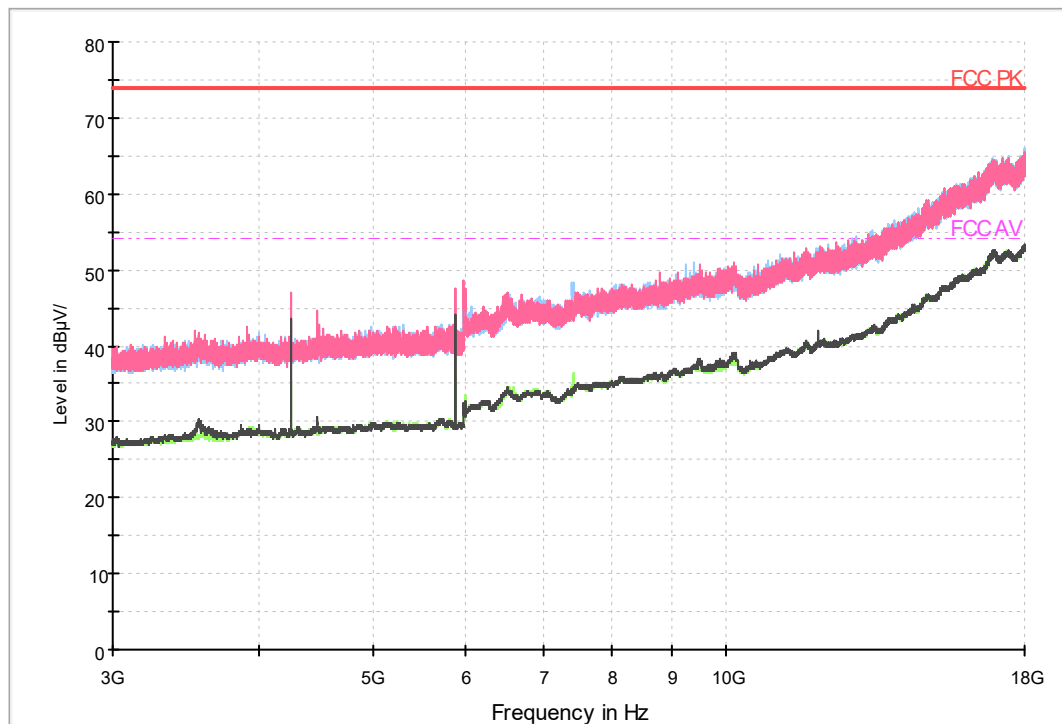


Fig.124 Radiated emission: 11g Ch11, 3GHz-18GHz

RE 1GHz-3GHz

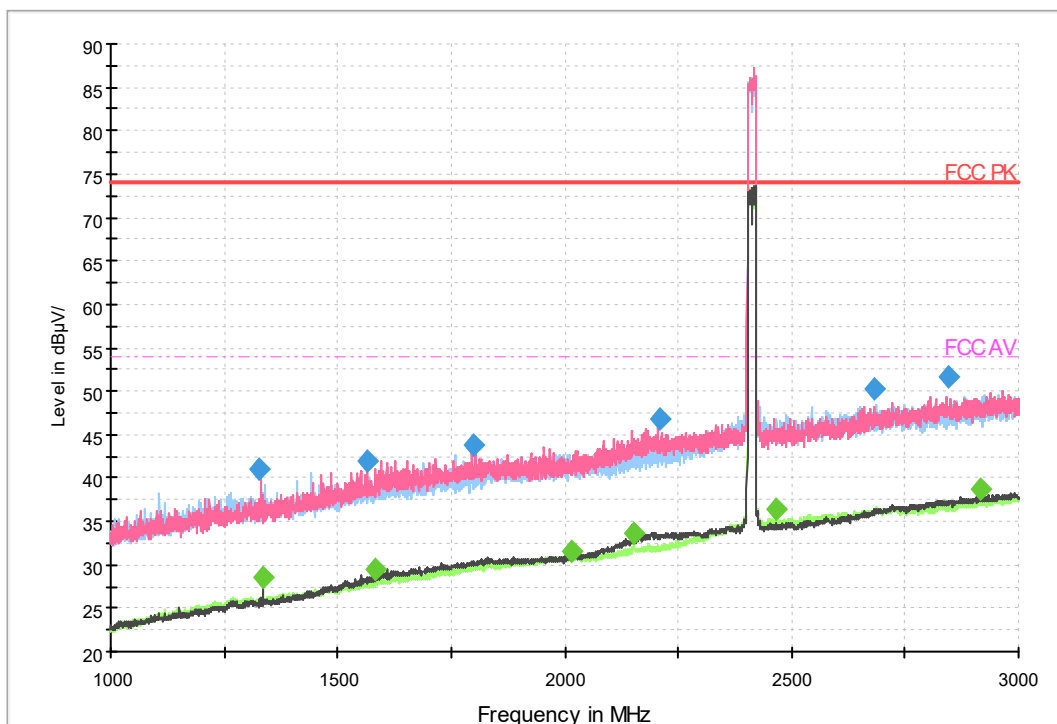


Fig.125 Radiated emission: 11n(20M) Ch1, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1327.600000	41.1	---	74.00	32.9	50.0	1000.000	100.0	V	15.0
1564.000000	42.0	---	74.00	32.0	50.0	1000.000	100.0	V	105.0
1799.800000	43.9	---	74.00	30.1	50.0	1000.000	100.0	V	75.0
2210.000000	46.8	---	74.00	27.2	50.0	1000.000	100.0	V	-15.0
2683.000000	50.2	---	74.00	23.8	50.0	1000.000	100.0	H	94.0
2846.800000	51.6	---	74.00	22.4	50.0	1000.000	100.0	V	273.0
1336.400000	---	28.7	54.00	25.3	50.0	1000.000	100.0	H	184.0
1583.800000	---	29.4	54.00	24.6	50.0	1000.000	100.0	V	84.0
2014.600000	---	31.7	54.00	22.3	50.0	1000.000	100.0	V	285.0
2151.800000	---	33.7	54.00	20.3	50.0	1000.000	100.0	V	83.0
2463.600000	---	36.3	54.00	17.7	50.0	1000.000	100.0	H	195.0
2917.600000	---	38.7	54.00	15.3	50.0	1000.000	100.0	V	83.0

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RE 3GHz-18GHz

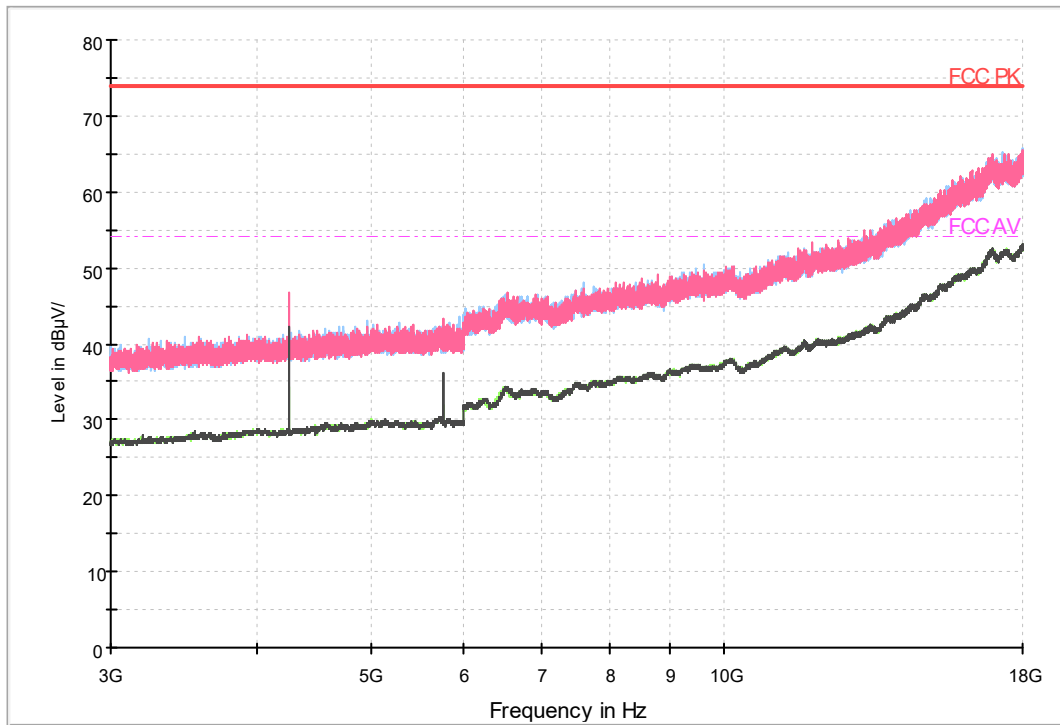


Fig.126 Radiated emission: 11n(20M) Ch1, 3GHz-18GHz

RE 1GHz-3GHz

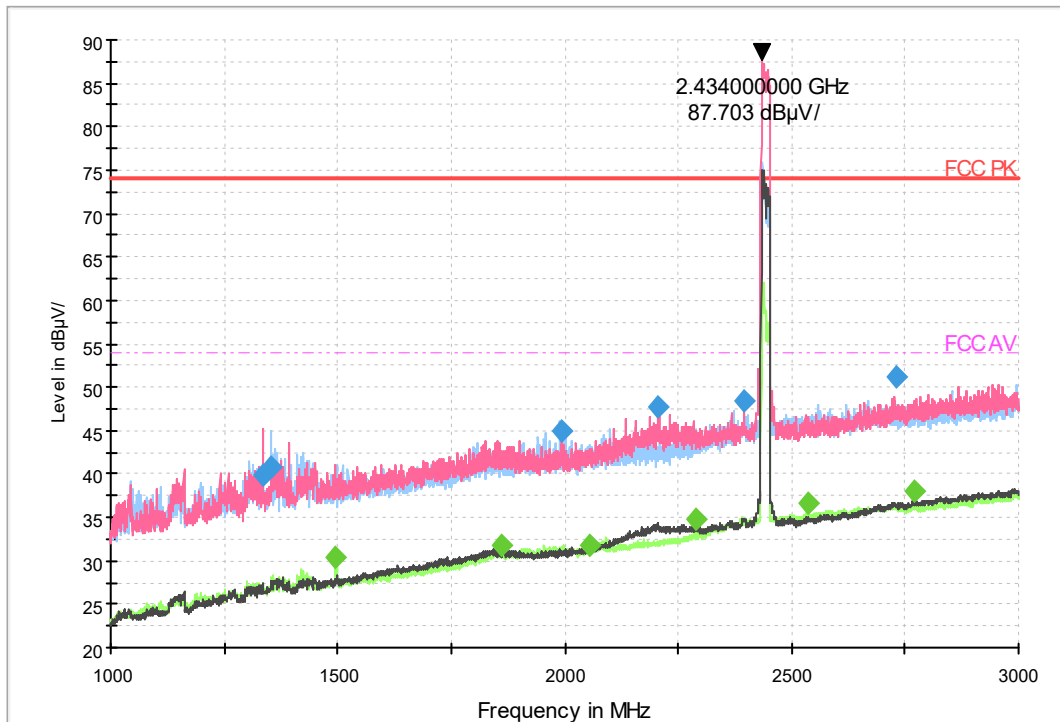


Fig.127 Radiated emission: 11n(20M) Ch6, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1336.600000	40.0	---	74.00	34.0	50.0	1000.000	100.0	V	173.0
1353.600000	40.9	---	74.00	33.1	50.0	1000.000	100.0	H	105.0
1994.800000	44.9	---	74.00	29.1	50.0	1000.000	100.0	H	285.0
2207.200000	47.6	---	74.00	26.4	50.0	1000.000	100.0	V	273.0
2393.800000	48.5	---	74.00	25.5	50.0	1000.000	100.0	V	90.0
2728.600000	51.2	---	74.00	22.8	50.0	1000.000	100.0	V	105.0
1494.000000	---	30.3	54.00	23.7	50.0	1000.000	100.0	H	173.0
1862.400000	---	31.8	54.00	22.2	50.0	1000.000	100.0	V	90.0
2055.000000	---	31.9	54.00	22.1	50.0	1000.000	100.0	H	273.0
2290.600000	---	34.7	54.00	19.3	50.0	1000.000	100.0	V	273.0
2537.200000	---	36.7	54.00	17.3	50.0	1000.000	100.0	H	273.0
2772.200000	---	38.1	54.00	15.9	50.0	1000.000	100.0	V	183.0

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RE 3GHz-18GHz

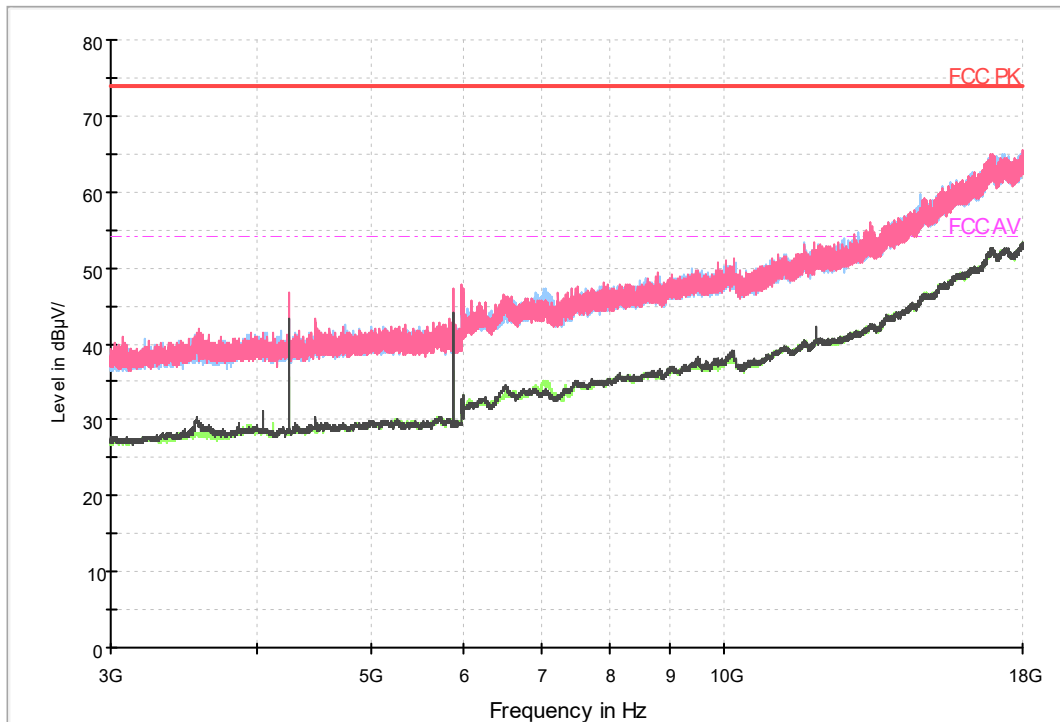


Fig.128 Radiated emission: 11n(20M) Ch6, 3GHz-18GHz

RE 1GHz-3GHz

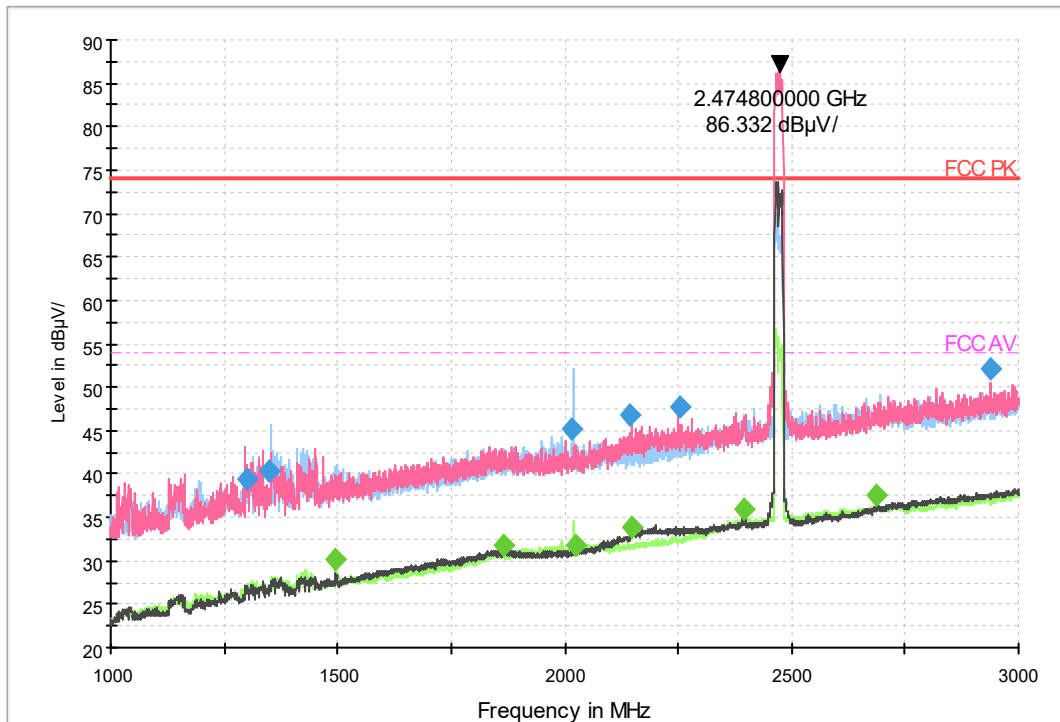


Fig.129 Radiated emission: 11n(20M) Ch11, 1GHz-3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1299.800000	39.4	---	74.00	34.6	50.0	1000.000	100.0	V	195.0
1349.600000	40.4	---	74.00	33.6	50.0	1000.000	100.0	H	105.0
2017.400000	45.2	---	74.00	28.8	50.0	1000.000	100.0	H	273.0
2145.400000	46.8	---	74.00	27.2	50.0	1000.000	100.0	V	183.0
2252.600000	47.6	---	74.00	26.4	50.0	1000.000	100.0	V	183.0
2938.600000	52.0	---	74.00	22.0	50.0	1000.000	100.0	V	183.0
1493.600000	---	30.1	54.00	23.9	50.0	1000.000	100.0	H	173.0
1864.800000	---	31.8	54.00	22.2	50.0	1000.000	100.0	V	105.0
2025.400000	---	31.9	54.00	22.1	50.0	1000.000	100.0	H	274.0
2147.400000	---	33.8	54.00	20.2	50.0	1000.000	100.0	V	195.0
2396.800000	---	35.9	54.00	18.1	50.0	1000.000	100.0	H	90.0
2688.200000	---	37.4	54.00	16.6	50.0	1000.000	100.0	H	174.0

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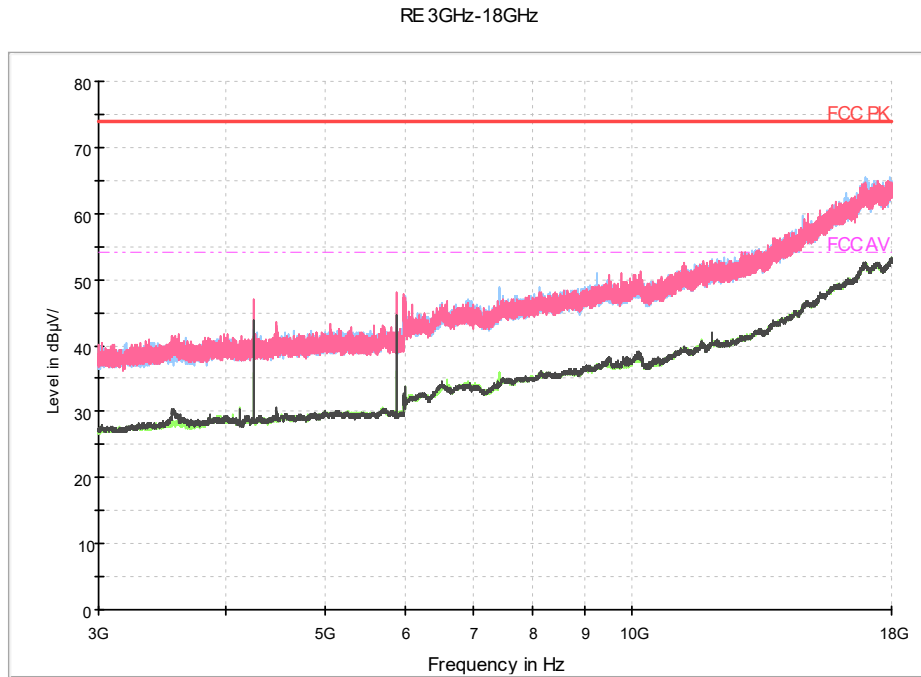


Fig.130 Radiated emission: 11n(20M) Ch11, 3GHz-18GHz

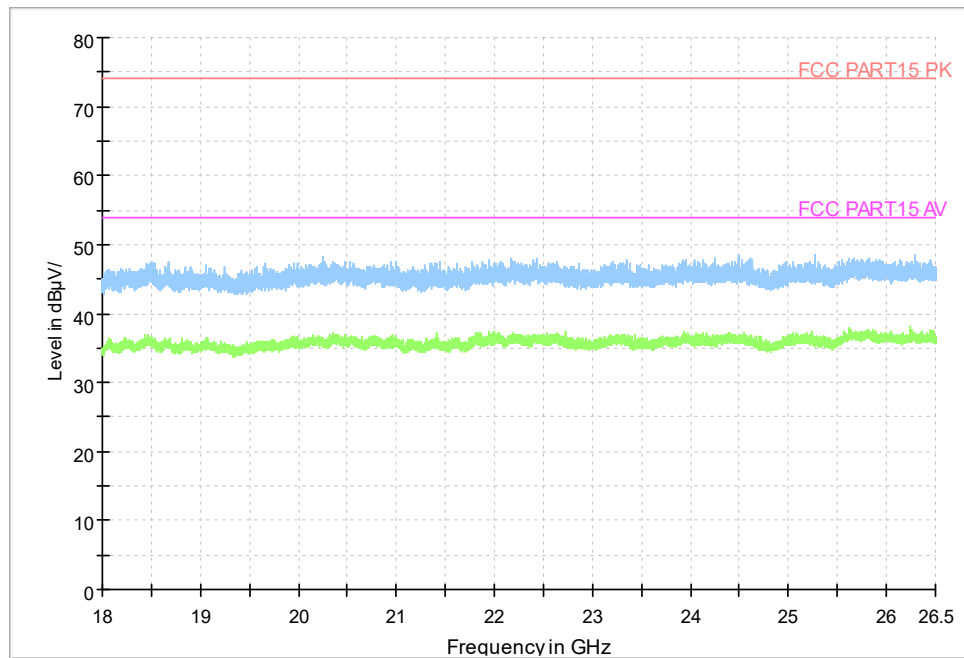


Fig.131 Radiated emission: 18 GHz - 26.5 GHz

6.8. Power line Conducted Emissions

Specifications:	ANSI C63.10 voltage mains test
DUT Serial Number:	860371050880503
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Measurement Uncertainty:

Frequency Range	Uncertainty
150 kHz to 30 MHz	1.83

Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dB μ V – 56 dB μ V	56 dB μ V – 46 dB μ V
>0.5 MHz to 5MHz	56 dB μ V	46 dB μ V
>5 MHz to 30 MHz	60 dB μ V	50 dB μ V
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

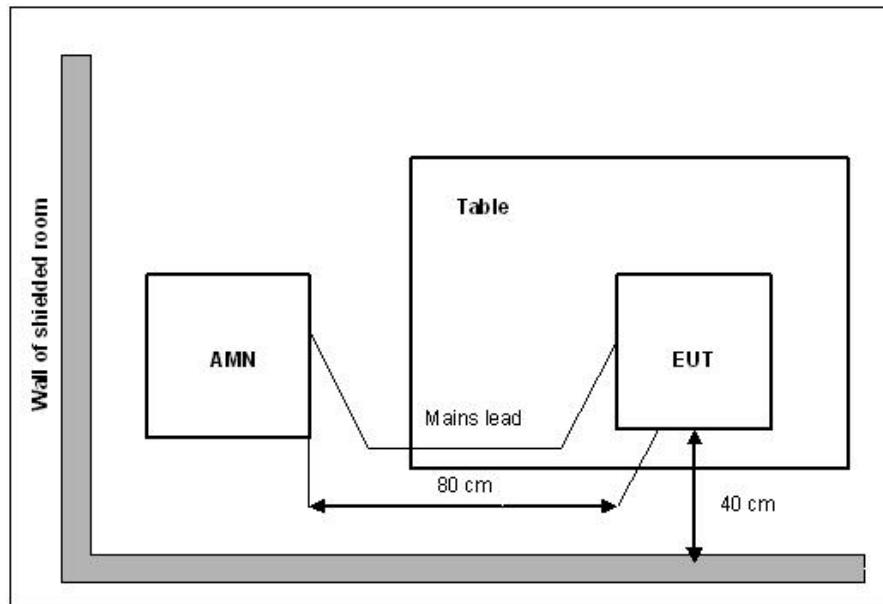
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Setup

The EUT was placed in a shielding room. The WLAN TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network).

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Test Procedure

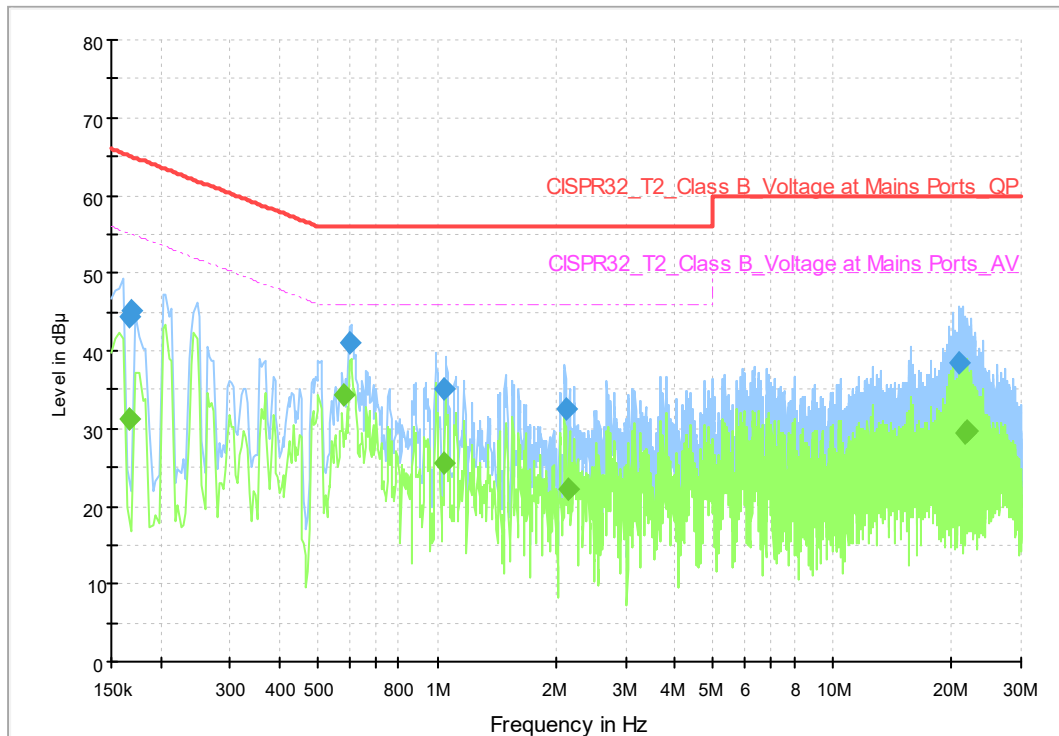
1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to ANSI C63.10-2013.

Conclusion: PASS

Test Result:

CISPR N&L1 Voltage 150k to 30MHz-Class B



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line
0.166000	44.3	---	65.2	55.2	100.0	9.000	N
0.169012	45.1	---	65.0	46.0	100.0	9.000	N
0.603212	40.9	---	56.0	46.0	100.0	9.000	L1
1.043262	35.1	---	56.0	46.0	100.0	9.000	L1
2.110906	32.6	---	56.0	50.0	100.0	9.000	L1
20.845750	38.6	---	60.0	50.0	100.0	9.000	L1
0.166000	---	31.3	55.2	31.3	100.0	9.000	N
0.583481	---	34.2	46.0	34.2	100.0	9.000	L1
1.043262	---	25.5	46.0	25.5	100.0	9.000	L1
2.139444	---	22.2	46.0	22.2	100.0	9.000	L1
21.562450	---	29.5	50.0	29.5	100.0	9.000	L1
21.873488	---	29.7	50.0	29.7	100.0	9.000	L1

Note: Both L line and N line are tested. The figure shows the maximum value of L line and N line synthesis.

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Test photo

See the document "Wifi_BT_Test Setup Photos".

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Annex A EUT Photos

See the document "B21W00049-External Photos".

See the document "B21W00049-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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