



# TEST REPORT

Applicant Name : TECNO MOBILE LIMITED  
Address : FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35  
SHAN MEI STREET FOTAN NT Hong Kong  
Report Number : SZNS220126-03832E-RF-00B  
FCC ID: 2ADYY-CI6N

**Test Standard (s)**  
FCC PART 15.247

## Sample Description

Product Type: Mobile Phone  
Model No.: CI6n  
Multiple Model(s) No.: N/A  
Trade Mark: TECNO  
Date Received: 2022/01/26  
Date of Test: 2022/02/22~2022/03/29  
Report Date: 2022/03/29

Test Result:	Pass*
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\* In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:**

Black Ding  
EMC Engineer

**Approved By:**

Robert Li  
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "\*" .

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk "\*\*". Customer model name, addresses, names, trademarks etc. are not considered data.

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE: -0.97dBm Wi-Fi: 23.57dBm(802.11b), 16.70dBm(802.11g) 16.87dBm(802.11n20),17.93dBm(802.11n40),
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	1.2 dBi (provided by the applicant)
Voltage Range	DC 3.87V from battery or DC 5V or 7.5V from adapter
Sample serial number	SZNS220126-03832E-RF-S1 for RF Conducted Test SZNS220126-03832E-RF-S2 for Conducted and Radiated Emissions (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: U180TSA Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or DC7.5V,2.4A 18W Max

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Line Conducted emission		2.72dB
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz- 18GHz	4.98dB
	18GHz- 26.5GHz	5.06dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 13 channels are provided to testing:

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

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 6 and 13.

802.11n-HT40 mode was tested with Channel 3, 6 and 11.

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

## Equipment Modifications

No modification was made to the EUT tested.

## EUT Exercise Software

EUT testing in engineering mode.

The device was tested with the worst case was performed as below:

Mode	Data rate	Power Level		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	17.5	17.5	17.5
802.11g	6Mbps	12	12	12
802.11n-HT20	MCS0	12	12	12
802.11n-HT40	MCS0	13	13	13
BLE	1Mbps	Default	Default	Default
BLE	2Mbps	Default	Default	Default

Note: the power level was provided by applicant.

EUT have two antennas, the two antennas have same power level setting, and the two antennas cannot transmit at same time.

## Duty cycle

Test Result: Compliant. Please refer to the Appendix Wi-Fi and test data table and plots for BLE.

## Support Equipment List and Details

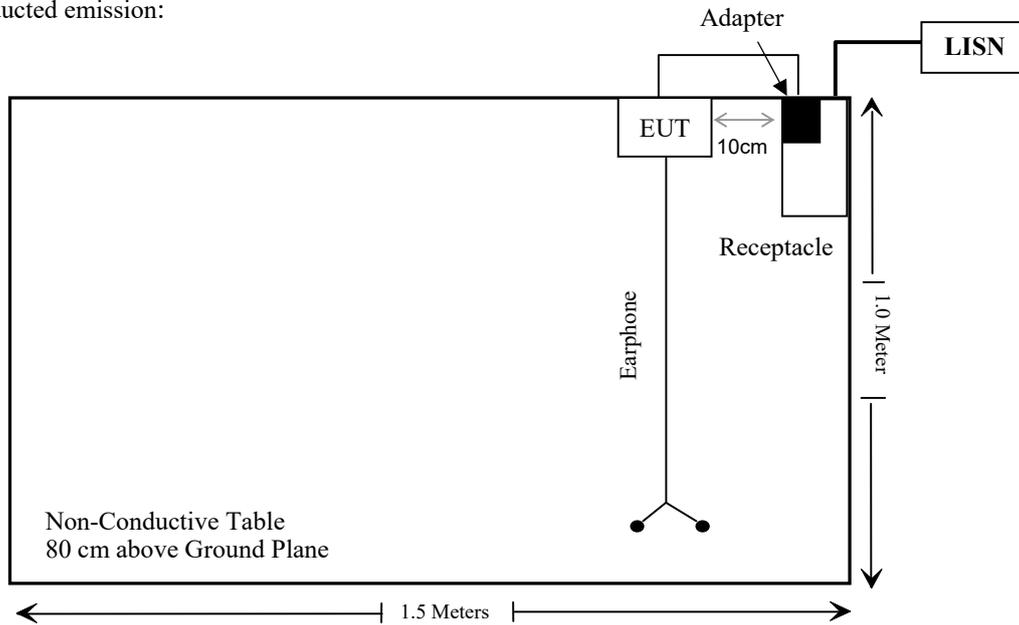
Manufacturer	Description	Model	Serial Number
/	/	/	/

## External I/O Cable

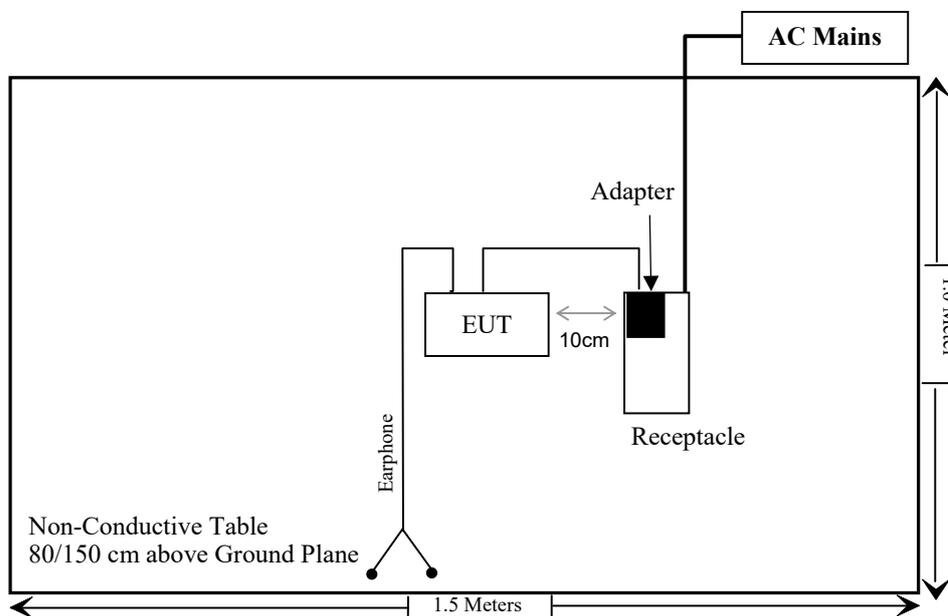
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

### Block Diagram of Test Setup

For conducted emission:



For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§15.247 (i), §1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Conducted emission test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
<b>Radiated emission test</b>					
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13
<b>RF conducted test</b>					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/07/06	2022/07/05
WEINSCHHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Cable	Unknown	Unknown	Each time	/

\* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

### Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

- a) According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

1.  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test Exclusion.

### Measurement Result

Worst case:

Mode	Frequency (MHz)	Max tune-up conducted power (dBm)	Max tune-up conducted power (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2402-2480	0	1.00	5	0.3	3.0	Yes

**Result:** Compliant.

For Wi-Fi mode, please refer to SZNS220126-03832E-SA.

## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- b. Antenna must be permanently attached to the unit.
- c. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has two internal antennas which was permanently attached, and the maximum antenna gain is 1.2dBi, fulfill the requirement of this section. Please refer to the EUT photos.

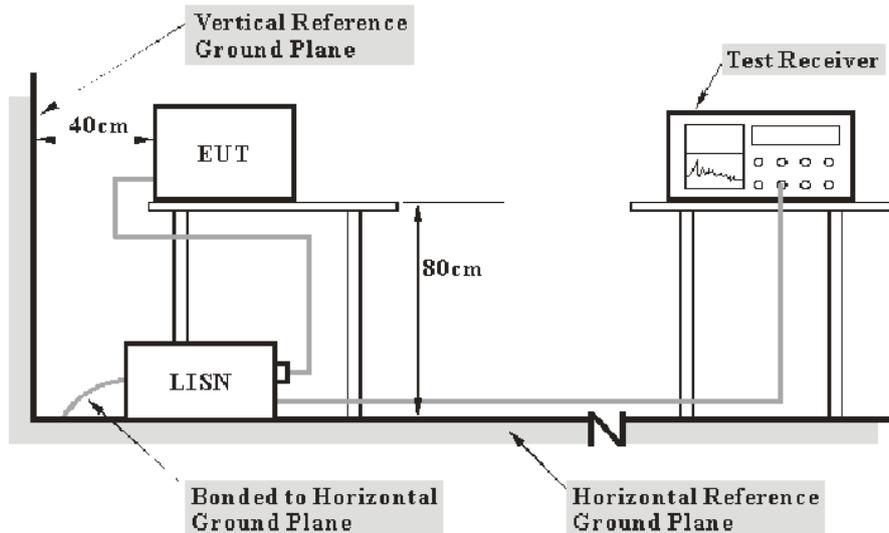
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and Ave.erage detection mode.

## Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

## Test Data

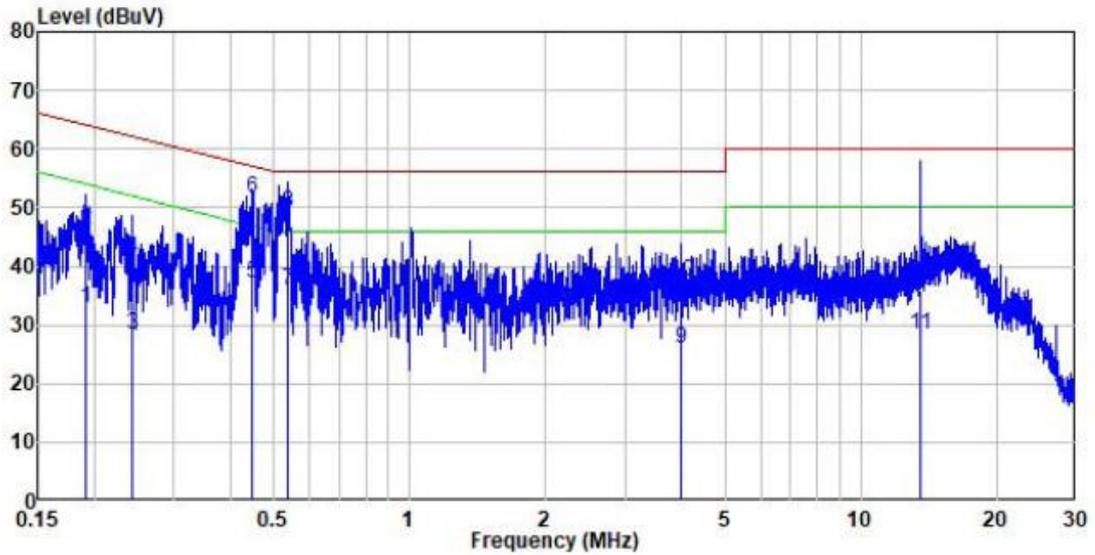
### Environmental Conditions

<b>Temperature:</b>	23 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Bin Duan on 2022-02-22.*

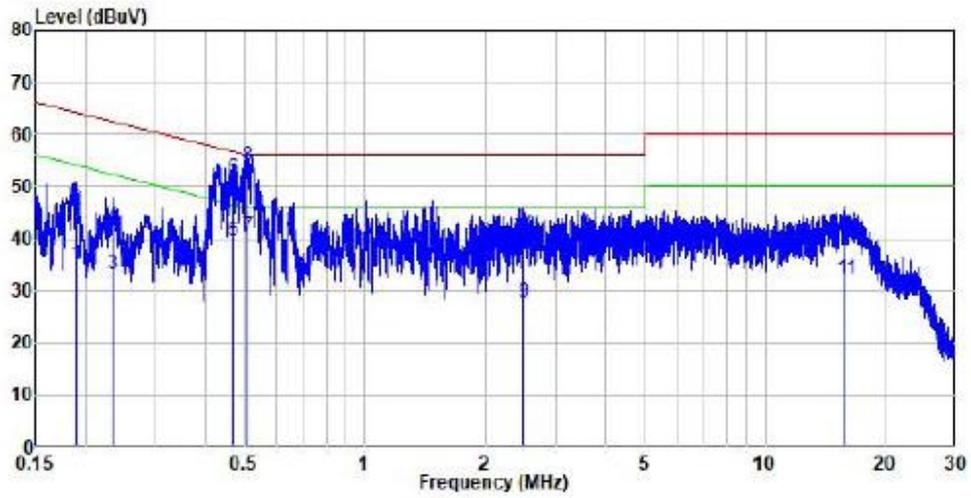
*EUT operation mode: Transmitting (Worst case is 802.11b, middle channel, ANT 2)*

AC 120V/60 Hz, Line



No.	Frequency	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.192	9.80	23.21	33.01	53.94	-20.93	Average
2	0.192	9.80	36.36	46.16	63.94	-17.78	QP
3	0.244	9.80	18.55	28.35	51.97	-23.62	Average
4	0.244	9.80	31.50	41.30	61.97	-20.67	QP
5	0.449	9.80	27.28	37.08	46.89	-9.81	Average
6	0.449	9.80	41.94	51.74	56.89	-5.15	QP
7	0.539	9.81	26.19	36.00	46.00	-10.00	Average
8	0.539	9.81	39.44	49.25	56.00	-6.75	QP
9	4.004	9.84	16.17	26.01	46.00	-19.99	Average
10	4.004	9.84	27.61	37.45	56.00	-18.55	QP
11	13.569	9.94	18.35	28.29	50.00	-21.71	Average
12	13.569	9.94	26.01	35.95	60.00	-24.05	QP

AC 120V/60 Hz, Neutral



No.	Frequency	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.189	9.80	25.24	35.04	54.06	-19.02	Average
2	0.189	9.80	35.73	45.53	64.06	-18.53	QP
3	0.235	9.80	23.35	33.15	52.26	-19.11	Average
4	0.235	9.80	32.71	42.51	62.26	-19.75	QP
5	0.470	9.80	29.72	39.52	46.51	-6.99	Average
6	0.470	9.80	41.68	51.48	56.51	-5.03	QP
7	0.507	9.80	30.70	40.50	46.00	-5.50	Average
8	0.507	9.80	44.36	54.16	56.00	-1.84	QP
9	2.493	9.82	17.93	27.75	46.00	-18.25	Average
10	2.493	9.82	31.06	40.88	56.00	-15.12	QP
11	15.917	10.06	22.31	32.37	50.00	-17.63	Average
12	15.917	10.06	29.47	39.53	60.00	-20.47	QP

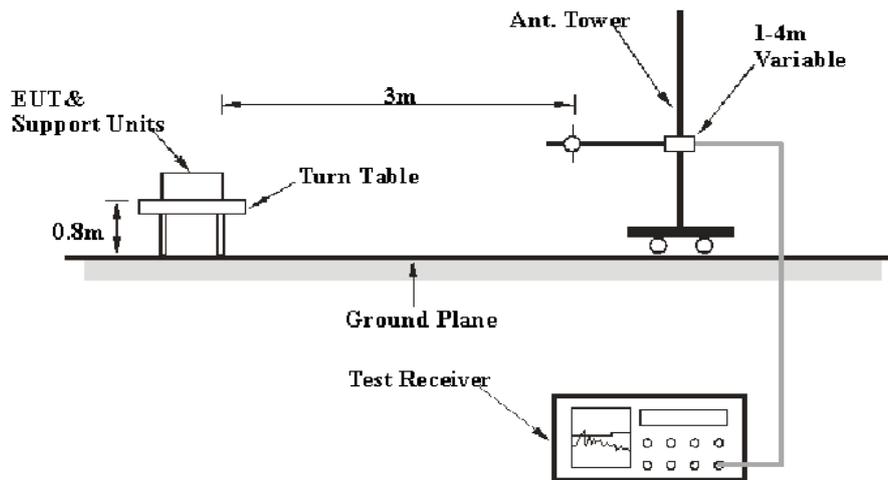
## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

### Applicable Standard

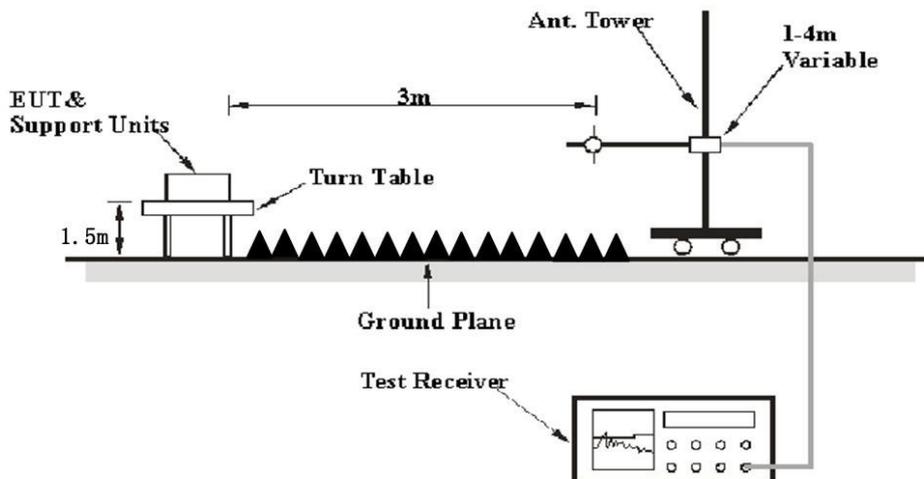
FCC §15.247 (d); §15.209; §15.205;

### EUT Setup

#### Below 1 GHz:



#### Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz <sup>Note 1</sup>	/	Ave.erage
	1MHz	> 1/T <sup>Note 2</sup>	/	Ave.erage

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Ave.erage detection modes for frequencies above 1 GHz.

## Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

## Test Data

### Environmental Conditions

<b>Temperature:</b>	19~20~25.5 °C
<b>Relative Humidity:</b>	56~58%
<b>ATM Pressure:</b>	101.0 kPa

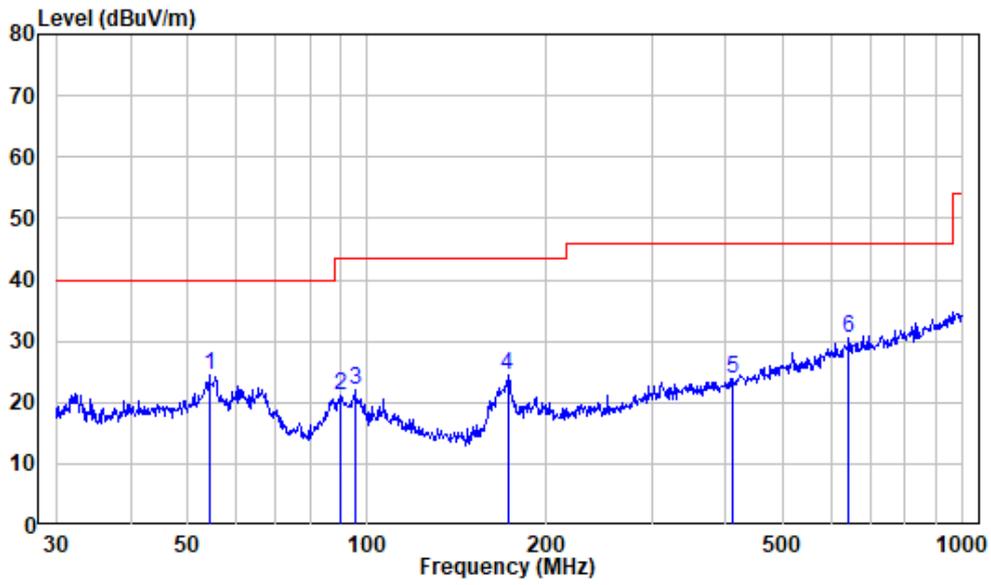
*The testing was performed by Chao Mo on 2022-02-23 for below 1GHz and on 2022-02-25 For above 1GHz.*

*EUT operation mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)*

**30MHz-1GHz:** (Worst case is 802.11b, middle channel, ANT 2)

Note: When the test result of peak was less than the limit of QP more than 6dB, just peak value were recorded.

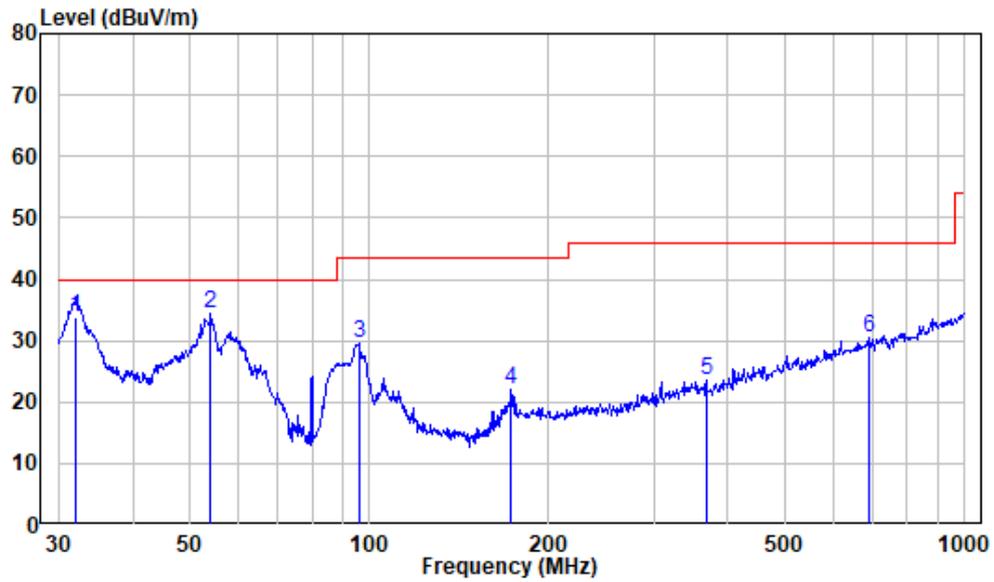
**Horizontal:**



Site : chamber  
 Condition: 3m HORIZONTAL  
 Model : CI6n  
 Test Mode: 2.4G WIFI

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.261	-10.33	34.75	24.42	40.00	-15.58	Peak
2	89.905	-14.04	35.17	21.13	43.50	-22.37	Peak
3	95.427	-12.40	34.44	22.04	43.50	-21.46	Peak
4	171.995	-13.38	37.77	24.39	43.50	-19.11	Peak
5	411.824	-6.29	30.19	23.90	46.00	-22.10	Peak
6	642.861	-1.90	32.46	30.56	46.00	-15.44	Peak

**Vertical**



Site : chamber  
 Condition: 3m VERTICAL  
 Model : CI6n  
 Test Mode: 2.4G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.067	-12.16	45.99	33.83	40.00	-6.17	OP
2	54.071	-10.35	44.65	34.30	40.00	-5.70	QP
3	96.099	-12.30	41.87	29.57	43.50	-13.93	Peak
4	172.599	-13.31	35.48	22.17	43.50	-21.33	Peak
5	368.112	-7.41	31.01	23.60	46.00	-22.40	Peak
6	689.565	-1.52	31.92	30.40	46.00	-15.60	Peak

**1-25 GHz:****Ant 1:****BLE 1MHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
BLE 1M, Low Channel									
2310	68.20	PK	219	1.7	H	-7.24	60.96	74	-13.04
2310	54.22	Ave.	219	1.7	H	-7.24	46.98	54	-7.02
2310	68.36	PK	238	1.4	V	-7.24	61.12	74	-12.88
2310	54.27	Ave.	238	1.4	V	-7.24	47.03	54	-6.97
2390	68.97	PK	245	2.1	H	-7.22	61.75	74	-12.25
2390	54.72	Ave.	245	2.1	H	-7.22	47.50	54	-6.50
2390	69.21	PK	295	1.4	V	-7.22	61.99	74	-12.01
2390	54.80	Ave.	295	1.4	V	-7.22	47.58	54	-6.42
4804	54.77	PK	107	1.4	H	-3.52	51.25	74	-22.75
4804	55.25	PK	110	2.0	V	-3.52	51.73	74	-22.27
BLE 1M, Middle Channel									
4880	54.42	PK	305	2.0	H	-3.37	51.05	74	-22.95
4880	54.57	PK	104	2.4	V	-3.37	51.20	74	-22.80
BLE 1M, High Channel									
2483.5	69.97	PK	9	1.3	H	-7.20	62.77	74	-11.23
2483.5	55.58	Ave.	9	1.3	H	-7.20	48.38	54	-5.62
2483.5	70.16	PK	8	1.4	V	-7.20	62.96	74	-11.04
2483.5	55.71	Ave.	8	1.4	V	-7.20	48.51	54	-5.49
2500	68.83	PK	55	1.6	H	-7.18	61.65	74	-12.35
2500	55.24	Ave.	55	1.6	H	-7.18	48.06	54	-5.94
2500	68.96	PK	207	1.8	V	-7.18	61.78	74	-12.22
2500	55.32	Ave.	207	1.8	V	-7.18	48.14	54	-5.86
4960	53.46	PK	168	2.4	H	-3.01	50.45	74	-23.55
4960	54.02	PK	215	1.2	V	-3.01	51.01	74	-22.99

**BLE 2MHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
BLE 2M, Low Channel									
2310	68.21	PK	253	2.5	H	-7.24	60.97	74	-13.03
2310	54.80	Ave.	253	2.5	H	-7.24	47.56	54	-6.44
2310	68.37	PK	24	1.1	V	-7.24	61.13	74	-12.87
2310	54.86	Ave.	24	1.1	V	-7.24	47.62	54	-6.38
2390	68.95	PK	13	2.0	H	-7.22	61.73	74	-12.27
2390	55.60	Ave.	13	2.0	H	-7.22	48.38	54	-5.62
2390	69.23	PK	61	1.5	V	-7.22	62.01	74	-11.99
2390	55.76	Ave.	61	1.5	V	-7.22	48.54	54	-5.46
4804	54.49	PK	305	1.8	H	-3.52	50.97	74	-23.03
4804	54.92	PK	134	2.2	V	-3.52	51.40	74	-22.60
BLE 2M, Middle Channel									
4880	54.52	PK	272	2.3	H	-3.37	51.15	74	-22.85
4880	55.00	PK	71	1.8	V	-3.37	51.63	74	-22.37
BLE 2M, High Channel									
2483.5	69.97	PK	110	1.7	H	-7.20	62.77	74	-11.23
2483.5	56.36	Ave.	110	1.7	H	-7.20	49.16	54	-4.84
2483.5	70.11	PK	266	1.5	V	-7.20	62.91	74	-11.09
2483.5	56.45	Ave.	266	1.5	V	-7.20	49.25	54	-4.75
2500	68.99	PK	72	2.4	H	-7.18	61.81	74	-12.19
2500	55.94	Ave.	72	2.4	H	-7.18	48.76	54	-5.24
2500	69.10	PK	316	2.3	V	-7.18	61.92	74	-12.08
2500	55.99	Ave.	316	2.3	V	-7.18	48.81	54	-5.19
4960	53.99	PK	151	1.9	H	-3.01	50.98	74	-23.02
4960	54.44	PK	77	1.5	V	-3.01	51.43	74	-22.57

**Wi-Fi:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11B, Low Channel									
2310	68.04	PK	144	2.2	H	-7.24	60.80	74	-13.20
2310	53.53	Ave.	144	2.2	H	-7.24	46.29	54	-7.71
2310	68.12	PK	48	2.0	V	-7.24	60.88	74	-13.12
2310	53.59	Ave.	48	2.0	V	-7.24	46.35	54	-7.65
2390	68.98	PK	132	2.2	H	-7.22	61.76	74	-12.24
2390	54.21	Ave.	132	2.2	H	-7.22	46.99	54	-7.01
2390	69.33	PK	280	1.0	V	-7.22	62.11	74	-11.89
2390	54.36	Ave.	280	1.0	V	-7.22	47.14	54	-6.86
4824	55.89	PK	214	2.5	H	-3.53	52.36	74	-21.64
4824	56.35	PK	297	1.5	V	-3.53	52.82	74	-21.18
802.11B, Middle Channel									
4874	56.63	PK	174	1.0	H	-3.42	53.21	74	-20.79
4874	56.76	PK	180	1.7	V	-3.42	53.34	74	-20.66
802.11B, High Channel									
2483.5	70.01	PK	272	2.4	H	-7.2	62.81	74	-11.19
2483.5	56.6	Ave.	272	2.4	H	-7.2	49.4	54	-4.6
2483.5	70.67	PK	337	1	V	-7.2	63.47	74	-10.53
2483.5	57.72	Ave.	337	1	V	-7.2	50.52	54	-3.48
2500	69.07	PK	136	1.3	H	-7.18	61.89	74	-12.11
2500	54.55	Ave.	136	1.3	H	-7.18	47.37	54	-6.63
2500	68.73	PK	192	2	V	-7.18	61.55	74	-12.45
2500	54.79	Ave.	192	2	V	-7.18	47.61	54	-6.39
4924	57.85	PK	51	2.1	H	-3.07	54.78	74	-19.22
4924	48.93	Ave.	51	2.1	H	-3.07	45.86	54	-8.14
4944	58	PK	20	2.2	V	-3.07	54.93	74	-19.07
4944	49.1	Ave.	20	2.2	V	-3.07	46.03	54	-7.97

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11G, Low Channel									
2310	68.13	PK	158	1.2	H	-7.24	60.89	74	-13.11
2310	54.24	AV	158	1.2	H	-7.24	47.00	54	-7.00
2310	68.36	PK	0	1.8	V	-7.24	61.12	74	-12.88
2310	54.31	AV	0	1.8	V	-7.24	47.07	54	-6.93
2390	69.03	PK	173	1.6	H	-7.22	61.81	74	-12.19
2390	55.41	AV	173	1.6	H	-7.22	48.19	54	-5.81
2390	69.72	PK	88	2.4	V	-7.22	62.50	74	-11.50
2390	55.66	AV	88	2.4	V	-7.22	48.44	54	-5.56
4824	54.54	PK	135	2.3	H	-3.53	51.01	74	-22.99
4824	55.06	PK	85	1.4	V	-3.53	51.53	74	-22.47
802.11G, Middle Channel									
4874	54.70	PK	14	1.7	H	-3.42	51.28	74	-22.72
4874	55.07	PK	244	1.6	V	-3.42	51.65	74	-22.35
802.11G, High Channel									
2483.5	70.53	PK	234	1.7	H	-7.2	63.33	74	-10.67
2483.5	57.05	Ave.	234	1.7	H	-7.2	49.85	54	-4.15
2483.5	73.13	PK	193	2.4	V	-7.2	65.93	74	-8.07
2483.5	57.46	Ave.	193	2.4	V	-7.2	50.26	54	-3.74
2500	69.02	PK	205	1.5	H	-7.18	61.84	74	-12.16
2500	55.49	Ave.	205	1.5	H	-7.18	48.31	54	-5.69
2500	68.73	PK	173	2.1	V	-7.18	61.55	74	-12.45
2500	55.52	Ave.	173	2.1	V	-7.18	48.34	54	-5.66
4944	54.01	PK	99	2.2	H	-3.07	50.94	74	-23.06
4944	54.11	PK	108	1.5	V	-3.07	51.04	74	-22.96

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11 N20, Low Channel									
2310	68.74	PK	277	1.7	H	-7.24	61.50	74	-12.50
2310	54.36	Ave.	277	1.7	H	-7.24	47.12	54	-6.88
2310	69.12	PK	16	1.5	V	-7.24	61.88	74	-12.12
2310	54.51	Ave.	16	1.5	V	-7.24	47.27	54	-6.73
2390	70.66	PK	337	2.2	H	-7.22	63.44	74	-10.56
2390	55.74	Ave.	337	2.2	H	-7.22	48.52	54	-5.48
2390	75.28	PK	112	1.1	V	-7.22	68.06	74	-5.94
2390	57.21	Ave.	112	1.1	V	-7.22	49.99	54	-4.01
4824	53.99	PK	248	2.3	H	-3.53	50.46	74	-23.54
4824	54.35	PK	156	2.2	V	-3.53	50.82	74	-23.18
802.11 N20, Middle Channel									
4874	54.14	PK	199	1.6	H	-3.42	50.72	74	-23.28
4874	54.55	PK	55	1.6	V	-3.42	51.13	74	-22.87
802.11 N20, High Channel									
2483.5	71.09	PK	259	1.1	H	-7.2	63.89	74	-10.11
2483.5	57.05	Ave.	259	1.1	H	-7.2	49.85	54	-4.15
2483.5	72.51	PK	82	2	V	-7.2	65.31	74	-8.69
2483.5	57.48	Ave.	82	2	V	-7.2	50.28	54	-3.72
2500	68.53	PK	145	1.7	H	-7.18	61.35	74	-12.65
2500	55.41	Ave.	145	1.7	H	-7.18	48.23	54	-5.77
2500	68.95	PK	289	1.9	V	-7.18	61.77	74	-12.23
2500	55.45	Ave.	289	1.9	V	-7.18	48.27	54	-5.73
4944	54.13	PK	281	2.2	H	-3.07	51.06	74	-22.94
4944	54.02	PK	215	1.6	V	-3.07	50.95	74	-23.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11 N40, Low Channel									
2310	69.33	PK	12	1.8	H	-7.24	62.09	74	-11.91
2310	54.67	Ave.	12	1.8	H	-7.24	47.43	54	-6.57
2310	69.60	PK	175	1.3	V	-7.24	62.36	74	-11.64
2310	54.76	Ave.	175	1.3	V	-7.24	47.52	54	-6.48
2390	73.06	PK	158	2.4	H	-7.22	65.84	74	-8.16
2390	57.17	Ave.	158	2.4	H	-7.22	49.95	54	-4.05
2390	78.14	PK	141	1.7	V	-7.22	70.92	74	-3.08
2390	58.22	Ave.	141	1.7	V	-7.22	51.00	54	-3.00
4844	53.34	PK	126	2.3	H	-3.54	49.80	74	-24.20
4844	53.99	PK	60	2.5	V	-3.54	50.45	74	-23.55
802.11 N40, Middle Channel									
4874	54.07	PK	146	2.2	H	-3.42	50.65	74	-23.35
4874	54.54	PK	98	2.0	V	-3.42	51.12	74	-22.88
802.11 N40, High Channel									
2483.5	73.72	PK	117	1.9	H	-7.2	66.52	74	-7.48
2483.5	57.52	Ave.	117	1.9	H	-7.2	50.32	54	-3.68
2483.5	77.71	PK	184	1.6	V	-7.2	70.51	74	-3.49
2483.5	58.04	Ave.	184	1.6	V	-7.2	50.84	54	-3.16
2500	68.88	PK	143	1.9	H	-7.18	61.7	74	-12.3
2500	55.96	Ave.	143	1.9	H	-7.18	48.78	54	-5.22
2500	68.86	PK	39	2.5	V	-7.18	61.68	74	-12.32
2500	56.02	Ave.	39	2.5	V	-7.18	48.84	54	-5.16
4924	54.03	PK	172	1.1	H	-3.16	50.87	74	-23.13
4924	54.16	PK	135	1.6	V	-3.16	51	74	-23

**Note:**

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

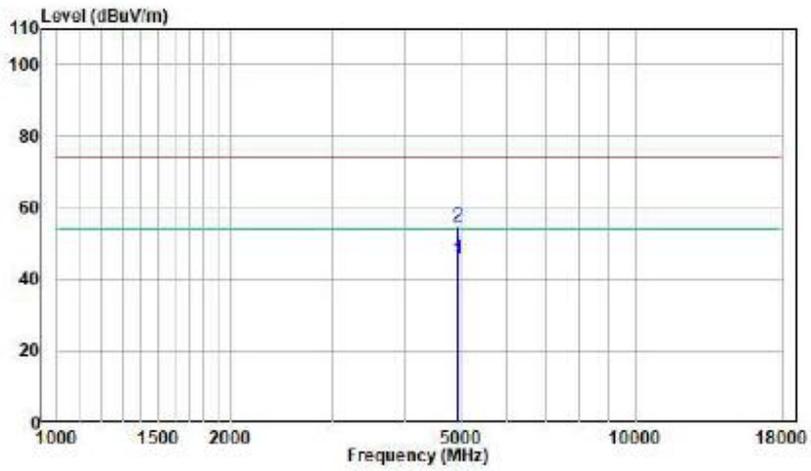
The other spurious emission which is in the noise floor level was not recorded.

When the test result of peak was less than the limit of average, just peak value were recorded.

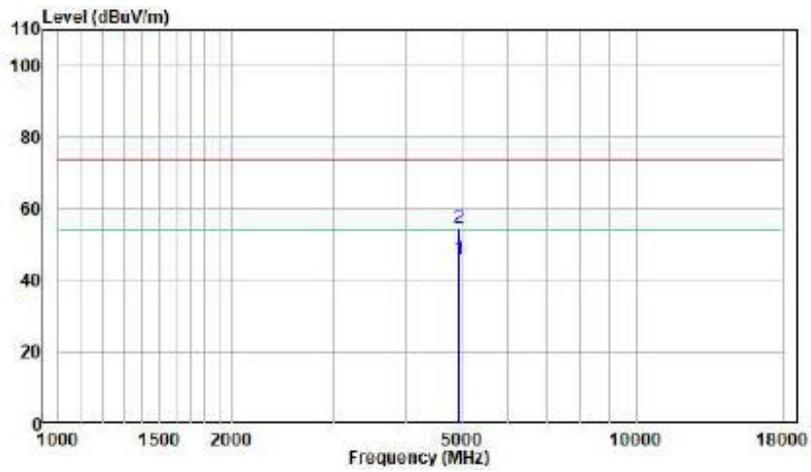
**1-18 GHz:**

**Pre-scan for 802.11b, High Channel**

**Horizontal**



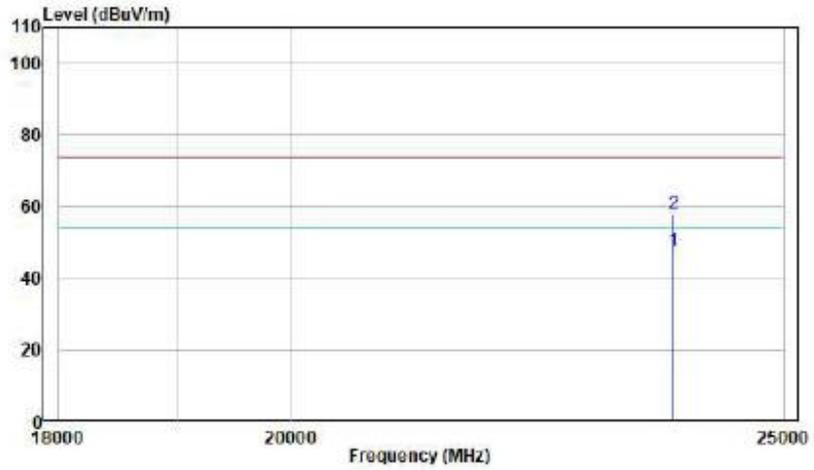
**Vertical**



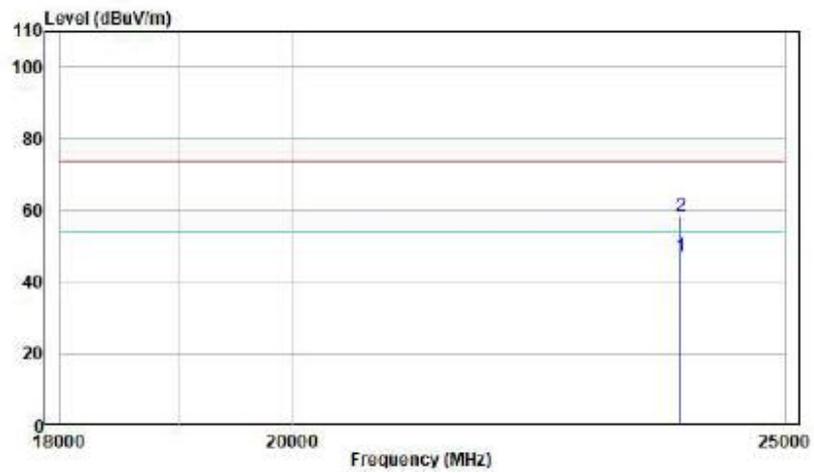
18 -25GHz:

Pre-scan for 802.11 b, High Channel

Horizontal



Vertical



**Ant 2:****BLE 1MHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
BLE 1M, Low Channel									
2310	68.04	PK	93	1.5	H	-7.24	60.8	74	-13.2
2310	53.53	AV	93	1.5	H	-7.24	46.29	54	-7.71
2310	68.04	PK	230	2	V	-7.24	60.8	74	-13.2
2310	53.53	AV	230	2	V	-7.24	46.29	54	-7.71
2390	69.15	PK	307	1.3	H	-7.22	61.93	74	-12.07
2390	54.88	AV	307	1.3	H	-7.22	47.66	54	-6.34
2390	69.57	PK	350	1.8	V	-7.22	62.35	74	-11.65
2390	54.62	AV	350	1.8	V	-7.22	47.4	54	-6.6
4804	55.88	PK	237	1.8	H	-3.52	52.36	74	-21.64
4804	56.34	PK	344	2.1	V	-3.52	52.82	74	-21.18
BLE 1M, Middle Channel									
4880	55.34	PK	286	2.4	H	-3.37	51.97	74	-22.03
4880	55.37	PK	207	2.1	V	-3.37	52	74	-22
BLE 1M, High Channel									
2483.5	69.76	PK	276	1.7	H	-7.2	62.56	74	-11.44
2483.5	55.08	AV	276	1.7	H	-7.2	47.88	54	-6.12
2483.5	70.21	PK	109	2.2	V	-7.2	63.01	74	-10.99
2483.5	55.15	AV	109	2.2	V	-7.2	47.95	54	-6.05
2500	69.21	PK	151	1.2	H	-7.18	62.03	74	-11.97
2500	55.39	AV	151	1.2	H	-7.18	48.21	54	-5.79
2500	68.76	PK	74	1.1	V	-7.18	61.58	74	-12.42
2500	55.47	AV	74	1.1	V	-7.18	48.29	54	-5.71
4960	55.09	PK	359	1.2	H	-3.01	52.08	74	-21.92
4960	54.85	PK	352	1.7	V	-3.01	51.84	74	-22.16

**BLE 2MHz:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
BLE 2M, Low Channel									
2310	68.04	PK	356	1.1	H	-7.24	60.8	74	-13.2
2310	53.53	AV	356	1.1	H	-7.24	46.29	54	-7.71
2310	68.04	PK	268	2.4	V	-7.24	60.8	74	-13.2
2310	53.53	AV	268	2.4	V	-7.24	46.29	54	-7.71
2390	69.56	PK	241	1.6	H	-7.22	62.34	74	-11.66
2390	54.72	AV	241	1.6	H	-7.22	47.5	54	-6.5
2390	69.9	PK	335	1.2	V	-7.22	62.68	74	-11.32
2390	54.81	AV	335	1.2	V	-7.22	47.59	54	-6.41
4804	55.88	PK	212	2.2	H	-3.52	52.36	74	-21.64
4804	56.34	PK	48	1.7	V	-3.52	52.82	74	-21.18
BLE 2M, Middle Channel									
4880	55.23	PK	154	1.2	H	-3.37	51.86	74	-22.14
4880	55.44	PK	206	1.5	V	-3.37	52.07	74	-21.93
BLE 2M, High Channel									
2483.5	70.01	PK	118	1.7	H	-7.2	62.81	74	-11.19
2483.5	55.14	AV	118	1.7	H	-7.2	47.94	54	-6.06
2483.5	70.28	PK	48	1.4	V	-7.2	63.08	74	-10.92
2483.5	55.3	AV	48	1.4	V	-7.2	48.1	54	-5.9
2500	68.38	PK	359	1.5	H	-7.18	61.2	74	-12.8
2500	55.41	AV	359	1.5	H	-7.18	48.23	54	-5.77
2500	69.3	PK	99	2.3	V	-7.18	62.12	74	-11.88
2500	55.61	AV	99	2.3	V	-7.18	48.43	54	-5.57
4960	55.28	PK	166	2.2	H	-3.01	52.27	74	-21.73
4960	55.03	PK	70	1.6	V	-3.01	52.02	74	-21.98

**Wi-Fi:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11B, Low Channel									
2310	68.46	PK	91	1.7	H	-7.24	61.22	74	-12.78
2310	53.81	AV	91	1.7	H	-7.24	46.57	54	-7.43
2310	68.16	PK	323	1.6	V	-7.24	60.92	74	-13.08
2310	53.82	AV	323	1.6	V	-7.24	46.58	54	-7.42
2390	69.92	PK	105	2.1	H	-7.22	62.7	74	-11.30
2390	54.27	AV	105	2.1	H	-7.22	47.05	54	-6.95
2390	69.84	PK	89	1.8	V	-7.22	62.62	74	-11.38
2390	54.34	AV	89	1.8	V	-7.22	47.12	54	-6.88
4824	56.16	PK	70	1.6	H	-3.53	52.63	74	-21.37
4824	57.07	PK	46	1.8	V	-3.53	53.54	74	-20.46
802.11B, Middle Channel									
4874	56.35	PK	260	1.9	H	-3.42	53.22	74	-20.78
4874	47.72	AV	260	1.9	H	-3.42	44.59	54	-9.41
4874	57.64	PK	171	1.7	V	-3.42	54.51	74	-19.49
4874	48.41	AV	171	1.7	V	-3.42	45.28	54	-8.72
802.11B, High Channel									
2483.5	69.72	PK	295	1.9	H	-7.2	62.52	74	-11.48
2483.5	54.98	AV	295	1.9	H	-7.2	47.78	54	-6.22
2483.5	70.45	PK	7	1.8	V	-7.2	63.25	74	-10.75
2483.5	58.08	AV	7	1.8	V	-7.2	50.88	54	-3.12
2500	69.04	PK	299	2.0	H	-7.18	61.86	74	-12.14
2500	55.08	AV	299	2.0	H	-7.18	47.9	54	-6.10
2500	68.40	PK	188	1.7	V	-7.18	61.22	74	-12.78
2500	54.93	AV	188	1.7	V	-7.18	47.75	54	-6.25
4944	56.71	PK	40	1.8	H	-3.07	53.64	74	-20.36
4944	48.57	AV	40	1.8	H	-3.07	45.5	54	-8.50
4944	59.46	PK	73	1.9	V	-3.07	56.39	74	-17.61
4944	50.02	AV	73	1.9	V	-3.07	46.95	54	-7.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11G, Low Channel									
2310	67.98	PK	166	1.5	H	-7.24	60.74	74	-13.26
2310	54.32	AV	166	1.5	H	-7.24	47.08	54	-6.92
2310	68.49	PK	90	2.0	V	-7.24	61.25	74	-12.75
2310	54.20	AV	90	2.0	V	-7.24	46.96	54	-7.04
2390	69.70	PK	310	2.0	H	-7.22	62.48	74	-11.52
2390	55.58	AV	310	2.0	H	-7.22	48.36	54	-5.64
2390	69.16	PK	145	1.7	V	-7.22	61.94	74	-12.06
2390	55.48	AV	145	1.7	V	-7.22	48.26	54	-5.74
4824	53.92	PK	263	1.6	H	-3.53	50.39	74	-23.61
4824	54.21	PK	55	1.8	V	-3.53	50.68	74	-23.32
802.11G, Middle Channel									
4874	54.29	PK	267	1.9	H	-3.42	51.16	74	-22.84
4874	54.41	PK	185	1.7	V	-3.42	51.28	74	-22.72
802.11G, High Channel									
2483.5	72.43	PK	61	1.6	H	-7.2	65.23	74	-8.77
2483.5	57.01	AV	61	1.6	H	-7.2	49.81	54	-4.19
2483.5	75.57	PK	9	2.0	V	-7.2	68.37	74	-5.63
2483.5	58.02	AV	9	2.0	V	-7.2	50.82	54	-3.18
2500	68.73	PK	44	1.6	H	-7.18	61.55	74	-12.45
2500	54.94	AV	44	1.6	H	-7.18	47.76	54	-6.24
2500	69.22	PK	106	2.1	V	-7.18	62.04	74	-11.96
2500	55.00	AV	106	2.1	V	-7.18	47.82	54	-6.18
4944	53.88	PK	1	2.0	H	-3.07	50.81	74	-23.19
4944	54.17	PK	320	1.7	V	-3.07	51.1	74	-22.90

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11 N20, Low Channel									
2310	68.29	PK	138	1.6	H	-7.24	61.05	74	-12.95
2310	54.14	AV	138	1.6	H	-7.24	46.9	54	-7.10
2310	68.23	PK	3	1.9	V	-7.24	60.99	74	-13.01
2310	54.38	AV	3	1.9	V	-7.24	47.14	54	-6.86
2390	69.57	PK	246	2.0	H	-7.22	62.35	74	-11.65
2390	55.60	AV	246	2.0	H	-7.22	48.38	54	-5.62
2390	69.25	PK	322	1.7	V	-7.22	62.03	74	-11.97
2390	55.42	AV	322	1.7	V	-7.22	48.2	54	-5.80
4824	54.22	PK	177	2.0	H	-3.53	50.69	74	-23.31
4824	54.28	PK	173	2.0	V	-3.53	50.75	74	-23.25
802.11 N20, Middle Channel									
4874	54.42	PK	133	1.9	H	-3.42	51.29	74	-22.71
4874	54.48	PK	173	1.9	V	-3.42	51.35	74	-22.65
802.11 N20, High Channel									
2483.5	71.09	PK	259	1.1	H	-7.2	63.89	74	-10.11
2483.5	57.05	Ave.	259	1.1	H	-7.2	49.85	54	-4.15
2483.5	72.51	PK	82	2	V	-7.2	65.31	74	-8.69
2483.5	57.48	Ave.	82	2	V	-7.2	50.28	54	-3.72
2500	68.53	PK	145	1.7	H	-7.18	61.35	74	-12.65
2500	55.41	Ave.	145	1.7	H	-7.18	48.23	54	-5.77
2500	68.95	PK	289	1.9	V	-7.18	61.77	74	-12.23
2500	55.45	Ave.	289	1.9	V	-7.18	48.27	54	-5.73
4944	54.13	PK	281	2.2	H	-3.07	51.06	74	-22.94
4944	54.02	PK	215	1.6	V	-3.07	50.95	74	-23.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11 N40, Low Channel									
2310	69.33	PK	12	1.8	H	-7.24	62.09	74	-11.91
2310	54.67	Ave.	12	1.8	H	-7.24	47.43	54	-6.57
2310	69.60	PK	175	1.3	V	-7.24	62.36	74	-11.64
2310	54.76	Ave.	175	1.3	V	-7.24	47.52	54	-6.48
2390	73.06	PK	158	2.4	H	-7.22	65.84	74	-8.16
2390	57.17	Ave.	158	2.4	H	-7.22	49.95	54	-4.05
2390	78.14	PK	141	1.7	V	-7.22	70.92	74	-3.08
2390	58.22	Ave.	141	1.7	V	-7.22	51.00	54	-3.00
4844	53.34	PK	126	2.3	H	-3.54	49.80	74	-24.20
4844	53.99	PK	60	2.5	V	-3.54	50.45	74	-23.55
802.11 N40, Middle Channel									
4874	53.91	PK	146	2.2	H	-3.42	51	74	-23
4874	54.38	PK	98	2.0	V	-3.42	51.47	74	-22.53
802.11 N40, High Channel									
2483.5	72.12	PK	305	2.0	H	-7.2	64.92	74	-9.08
2483.5	57.29	AV	305	2.0	H	-7.2	50.09	54	-3.91
2483.5	74.56	PK	338	1.7	V	-7.2	67.36	74	-6.64
2483.5	57.99	AV	338	1.7	V	-7.2	50.79	54	-3.21
2500	68.98	PK	167	2.1	H	-7.18	61.8	74	-12.20
2500	55.81	AV	167	2.1	H	-7.18	48.63	54	-5.37
2500	69.06	PK	110	1.8	V	-7.18	61.88	74	-12.12
2500	55.99	AV	110	1.8	V	-7.18	48.81	54	-5.19
4924	54.09	PK	324	2.1	H	-3.16	50.93	74	-23.07
4924	53.63	PK	251	2.1	V	-3.16	50.47	74	-23.53

**Note:**

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

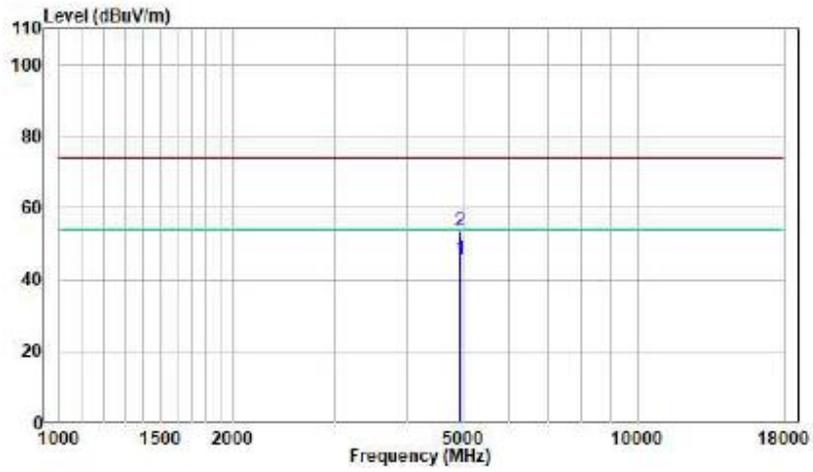
Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

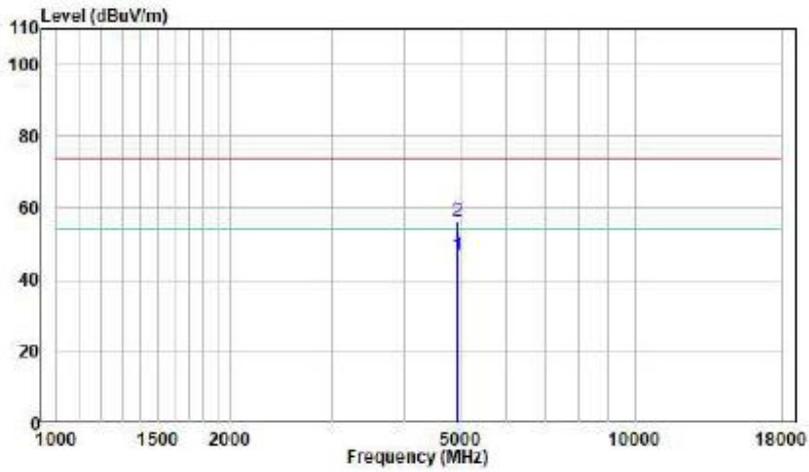
1-18 GHz:

Pre-scan for 802.11b, High Channel

Horizontal



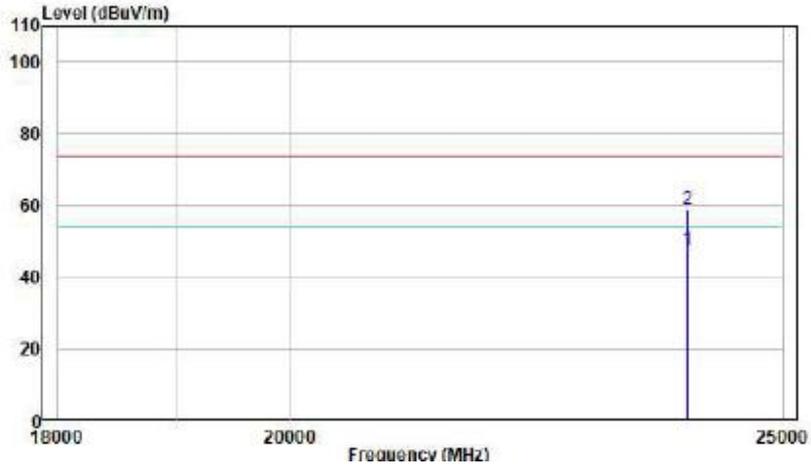
Vertical



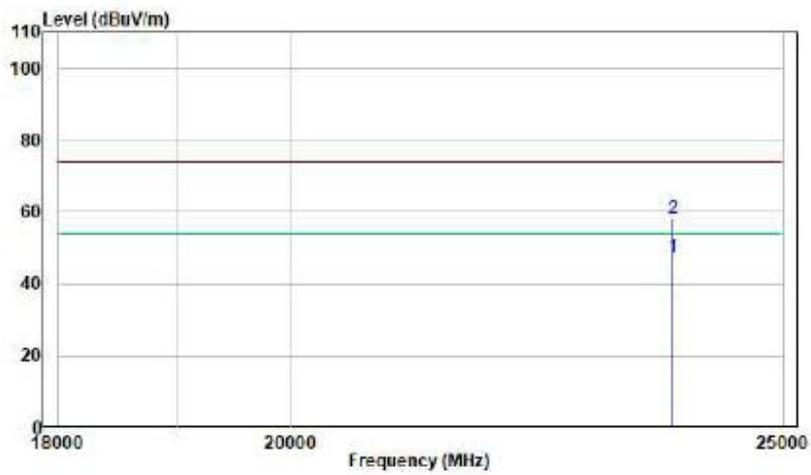
18 -25GHz:

Pre-scan for 802.11 b, High Channel

Horizontal



Vertical



## FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

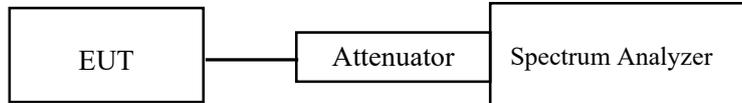
### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

For Wi-Fi mode:



For BLE mode:



### Test Data

#### Environmental Conditions

<b>Temperature:</b>	19~26℃
<b>Relative Humidity:</b>	48~57.3 %
<b>ATM Pressure:</b>	100~101.0 kPa

The testing was performed by Key Pei on 2022-03-03 and 2022-03-29 for wifi and Black Ding on 2022-03-21 for BLE.

*EUT operation mode: Transmitting*

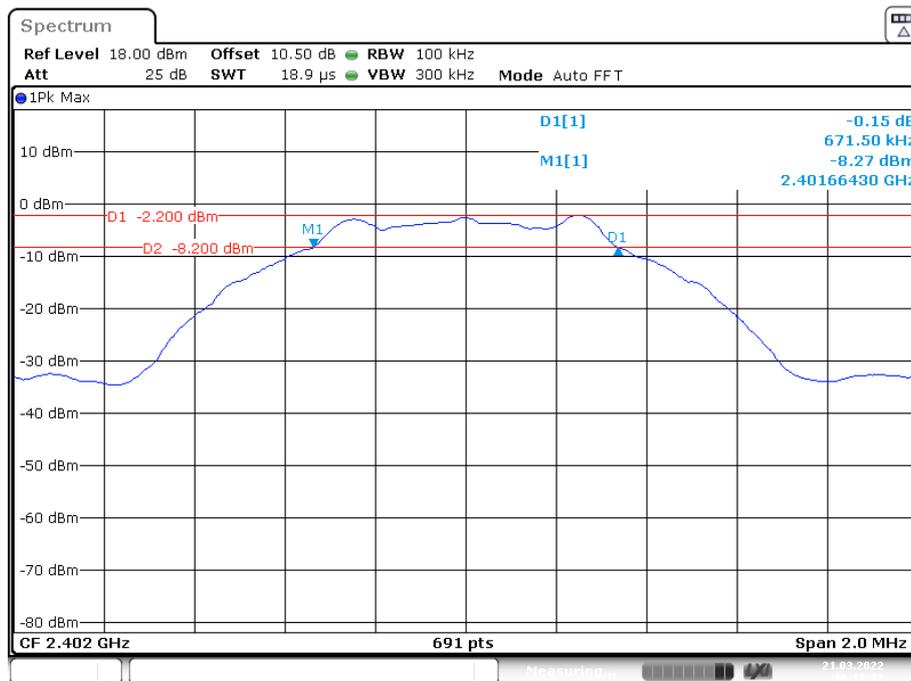
Test Result: Compliant.

Ant 1

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
BLE 1M			
Low	2402	0.672	≥500
Middle	2440	0.677	≥500
High	2480	0.680	≥500
BLE 2M			
Low	2402	1.169	≥500
Middle	2440	1.127	≥500
High	2480	1.221	≥500

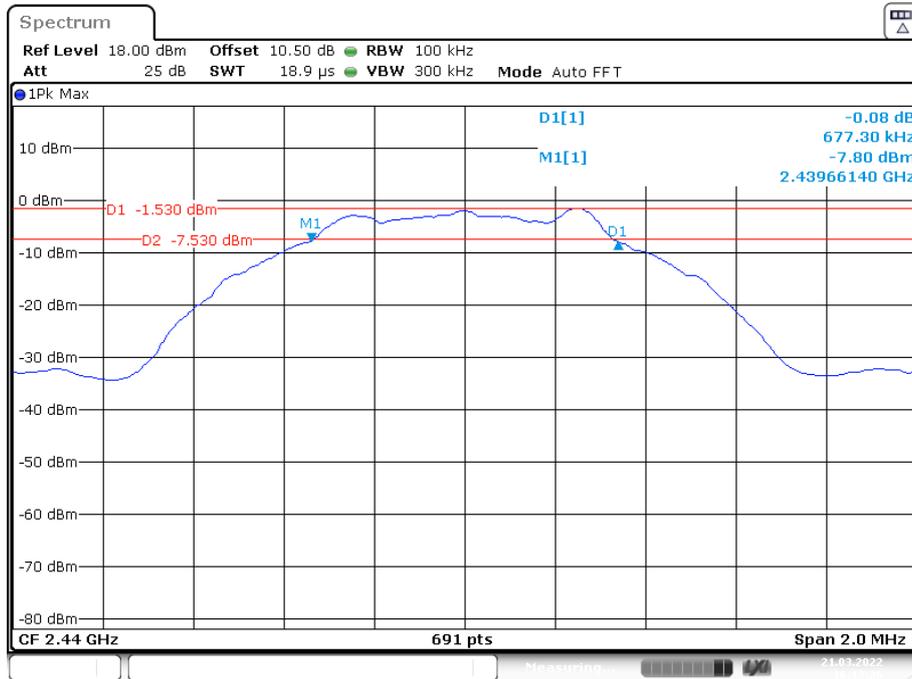
BLE 1M:

2402MHz

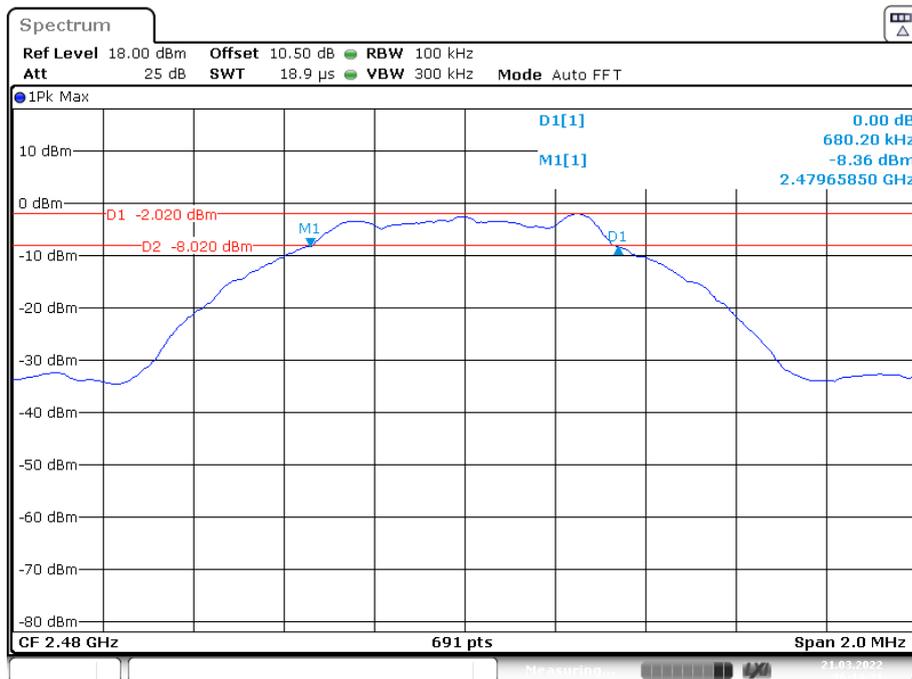


Date: 21.MAR.2022 16:12:33

2440MHz

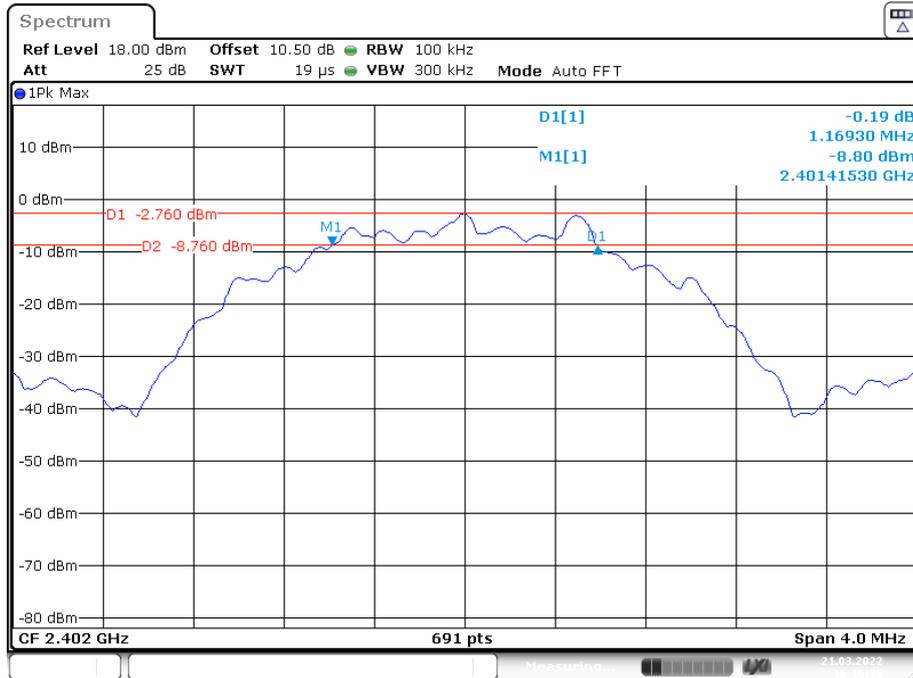


2480MHz



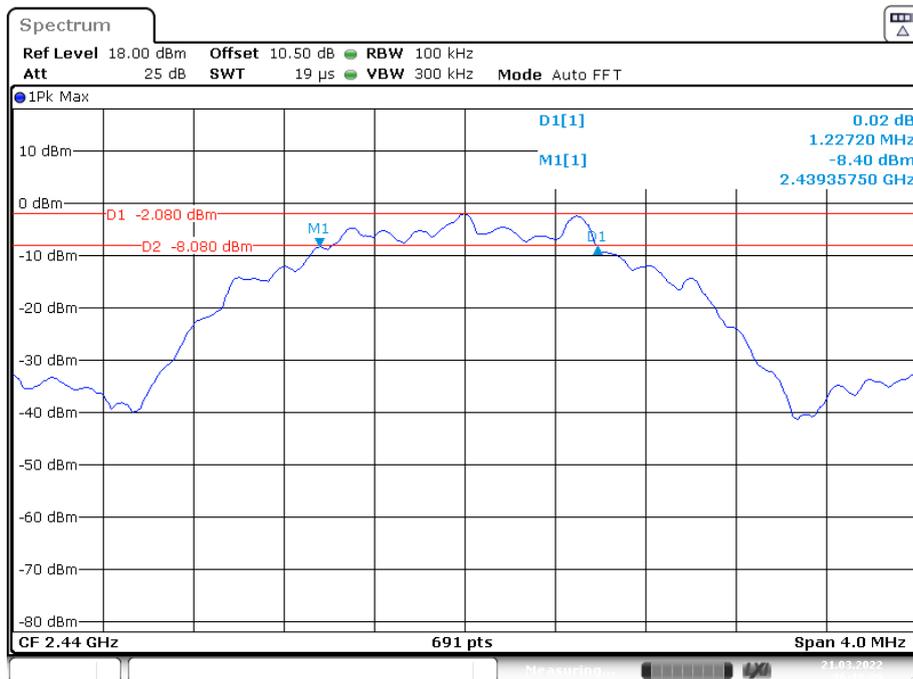
BLE 2M:

2402MHz

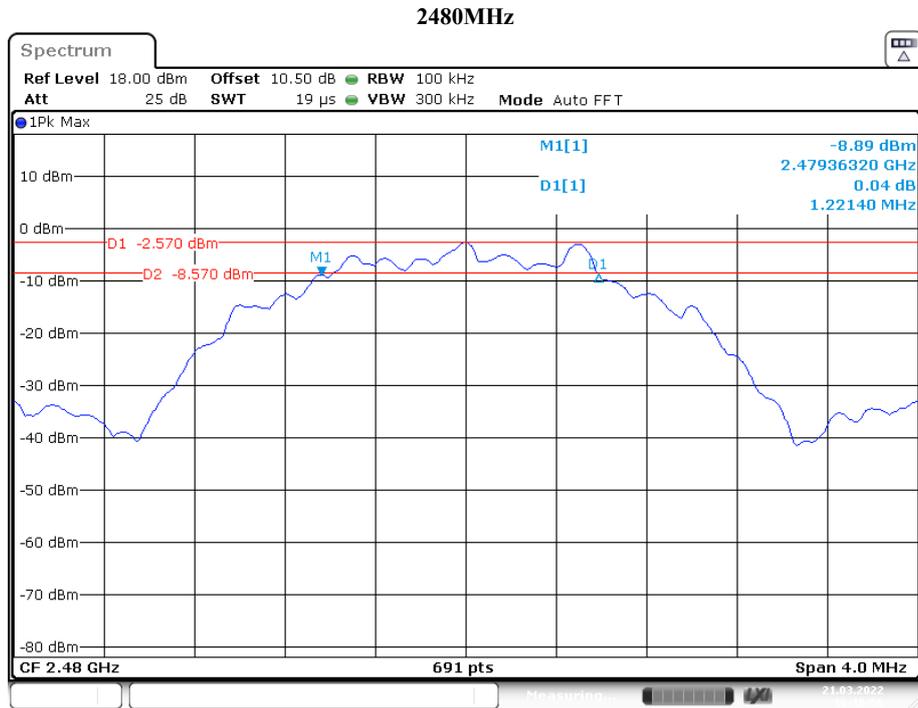


Date: 21.MAR.2022 16:19:35

2440MHz



Date: 21.MAR.2022 16:18:29



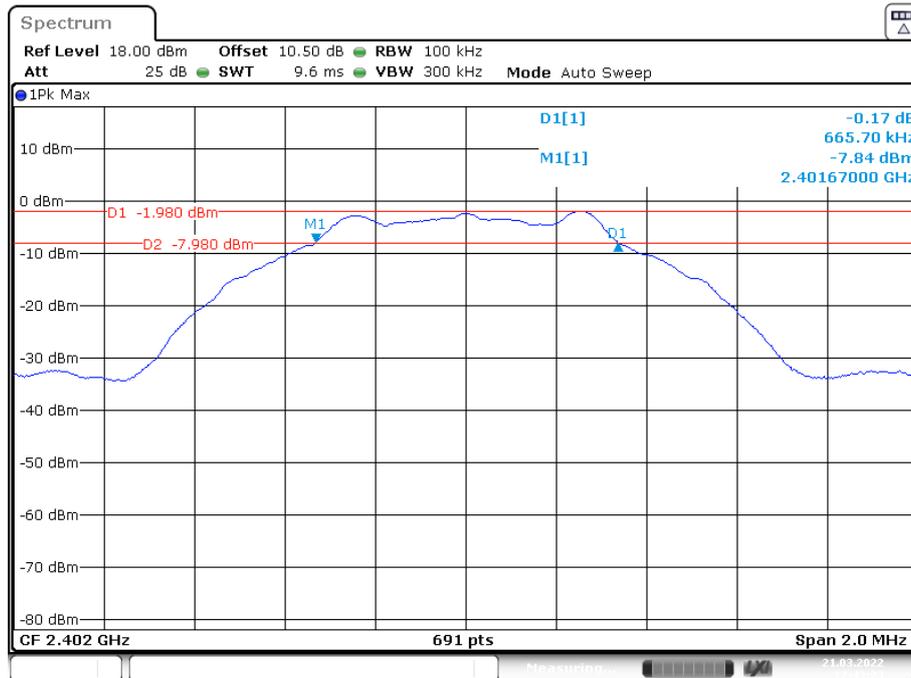
Date: 21.MAR.2022 16:16:56

Ant 2

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
BLE 1M			
Low	2402	0.666	≥500
Middle	2440	0.669	≥500
High	2480	0.669	≥500
BLE 2M			
Low	2402	1.175	≥500
Middle	2440	1.175	≥500
High	2480	1.227	≥500

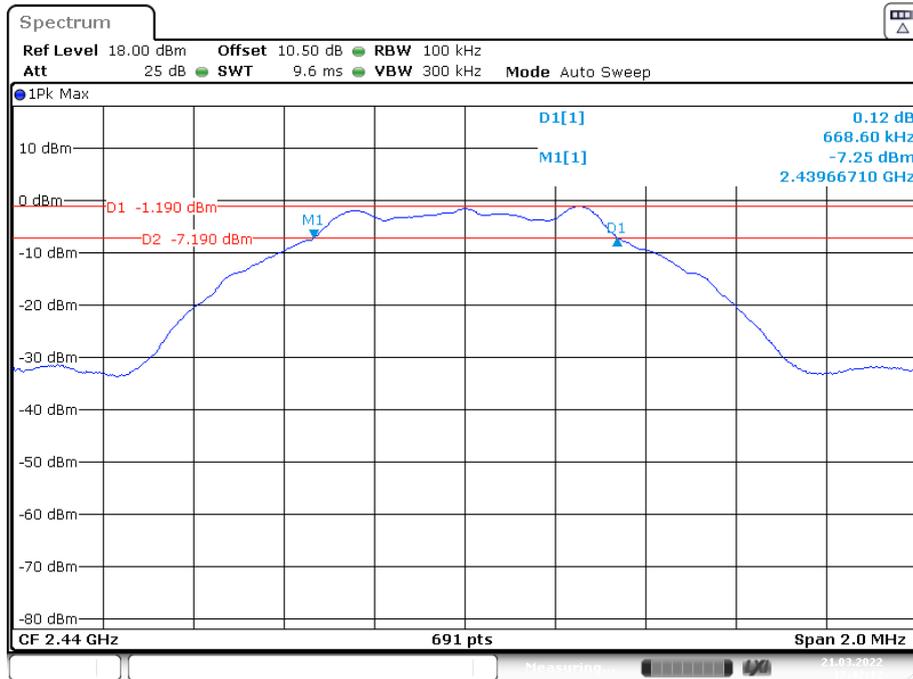
BLE 1M:

2402MHz

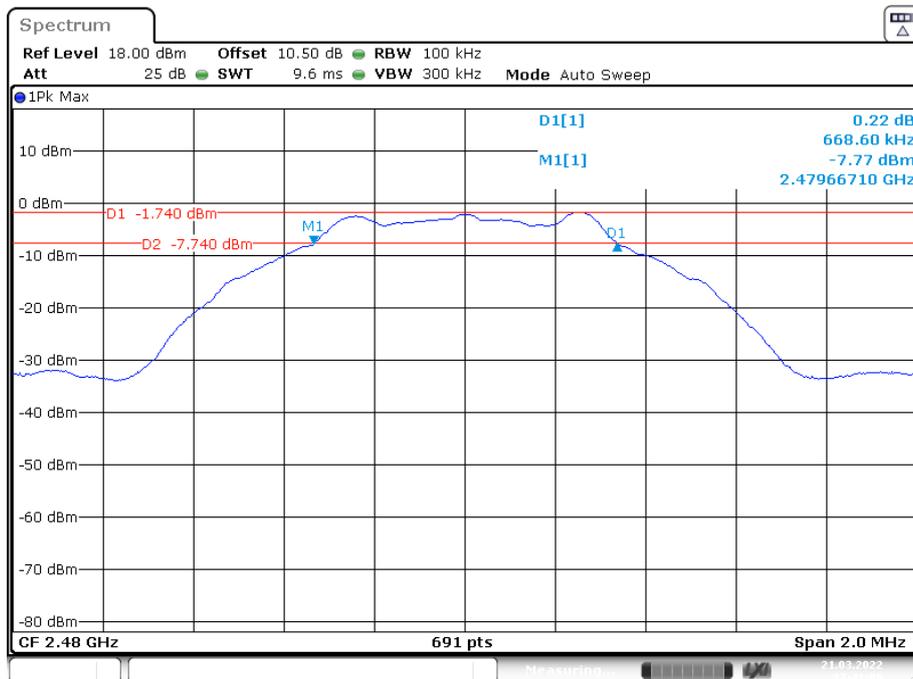


Date: 21.MAR.2022 17:43:24

2440MHz

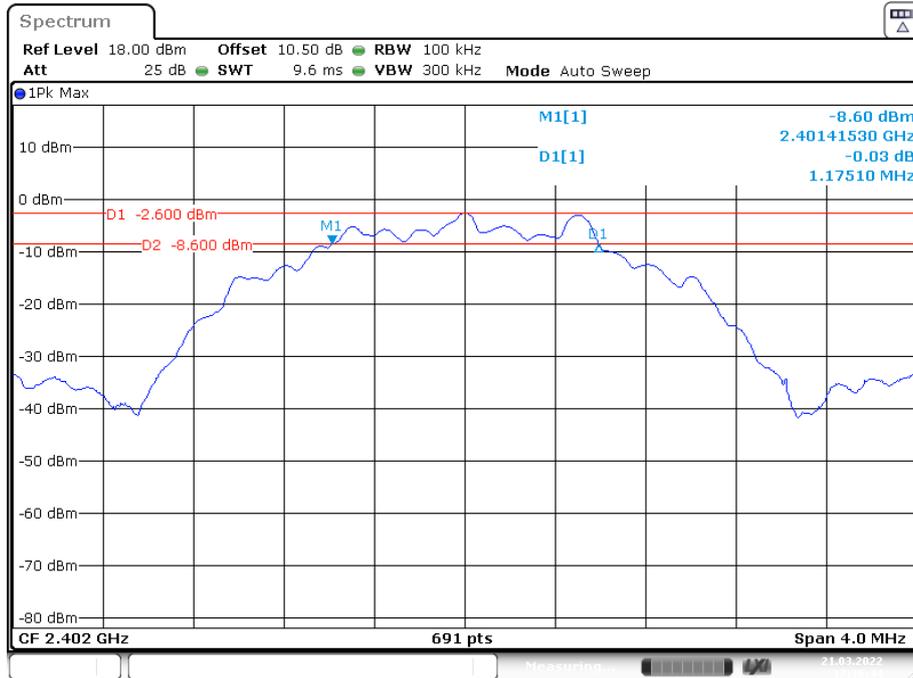


2480MHz



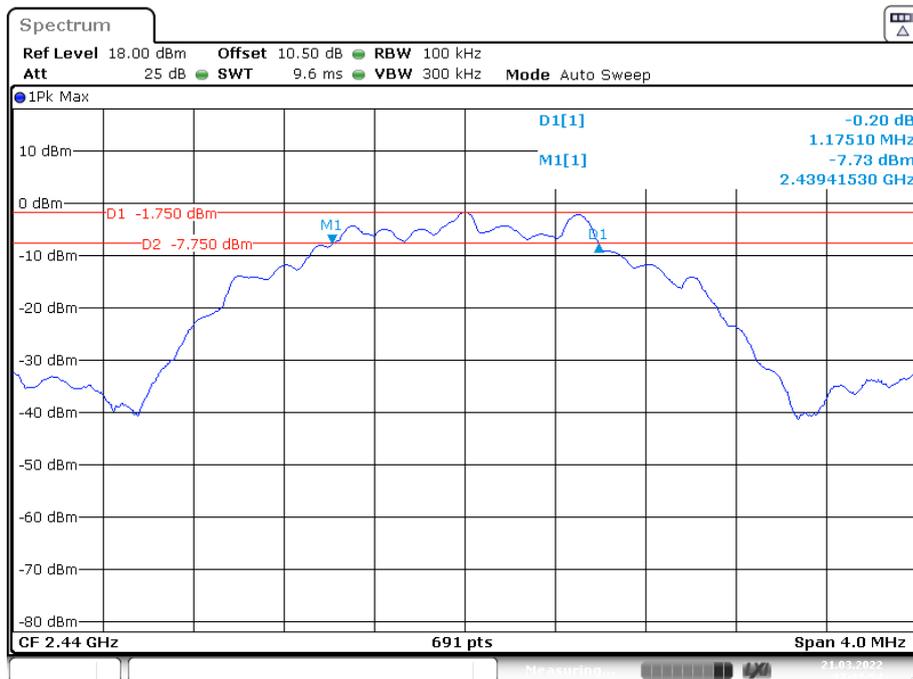
BLE 2M:

2402MHz



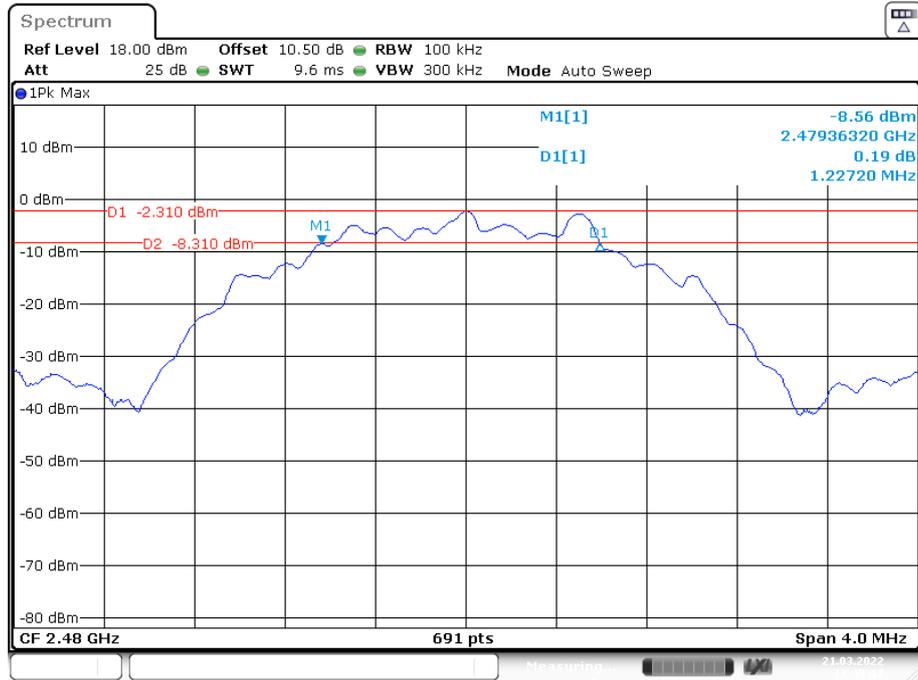
Date: 21.MAR.2022 17:36:44

2440MHz



Date: 21.MAR.2022 17:37:54

2480MHz



Date: 21.MAR.2022 17:40:17

For Wi-Fi mode, please refer to the Appendix Wi-Fi.

## FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

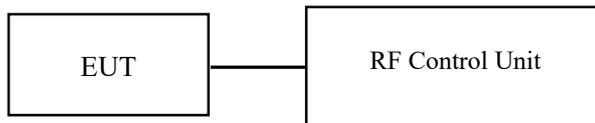
### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements Averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The Average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Procedure

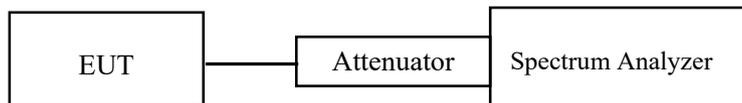
- d. Place the EUT on a bench and set it in transmitting mode.
- e. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- f. Add a correction factor to the display.

For Wi-Fi mode:



Note: the RF Control Unit has a built-in power sensor.

For BLE mode:



### Test Data

#### Environmental Conditions

<b>Temperature:</b>	19~26℃
<b>Relative Humidity:</b>	48~57.3 %
<b>ATM Pressure:</b>	100~101.0 kPa

The testing was performed by Key Pei on 2022-03-03 and 2022-03-29 for wifi and Black Ding on 2022-03-21 for BLE.

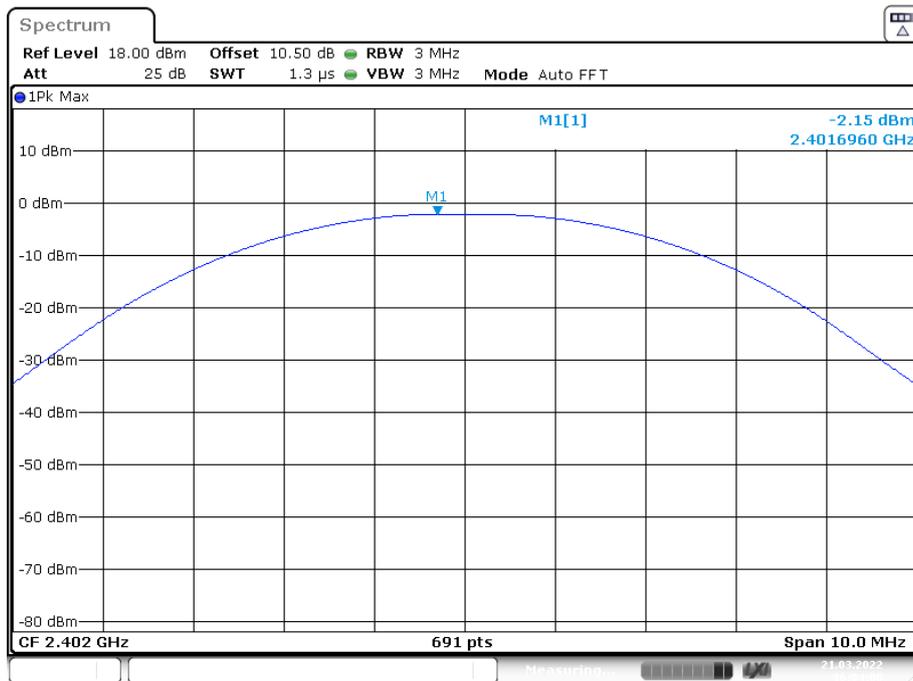
EUT operation mode: Transmitting

Test Result: Compliant.

Ant 1

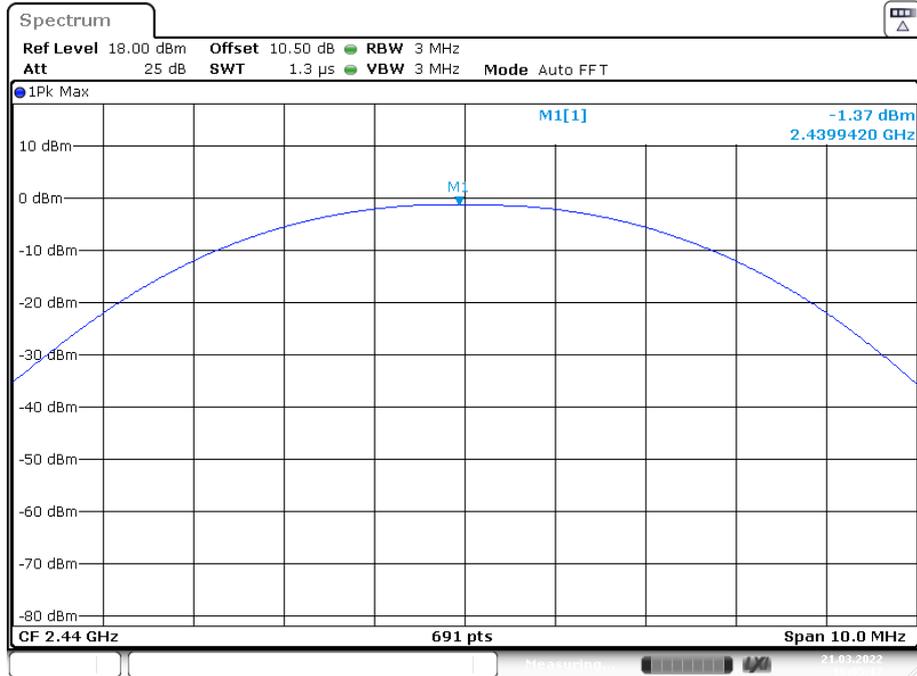
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)
BLE 1M			
Low	2402	-2.15	30
Middle	2440	-1.37	30
High	2480	-1.84	30
BLE 2M			
Low	2402	-2.16	30
Middle	2440	-1.33	30
High	2480	-1.79	30

BLE 1M\_2402



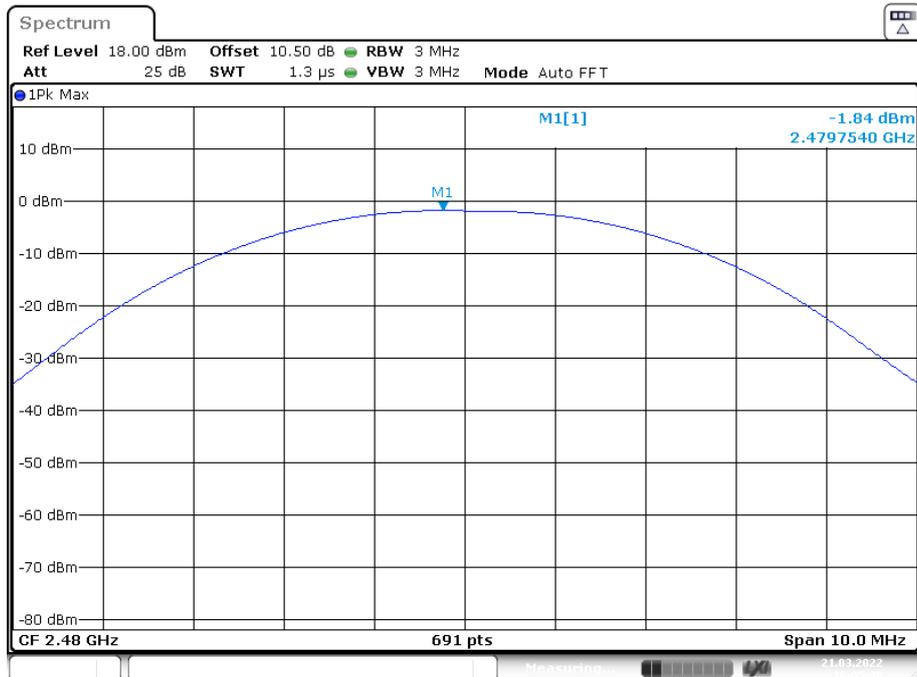
Date: 21.MAR.2022 16:04:08

BLE 1M\_2440



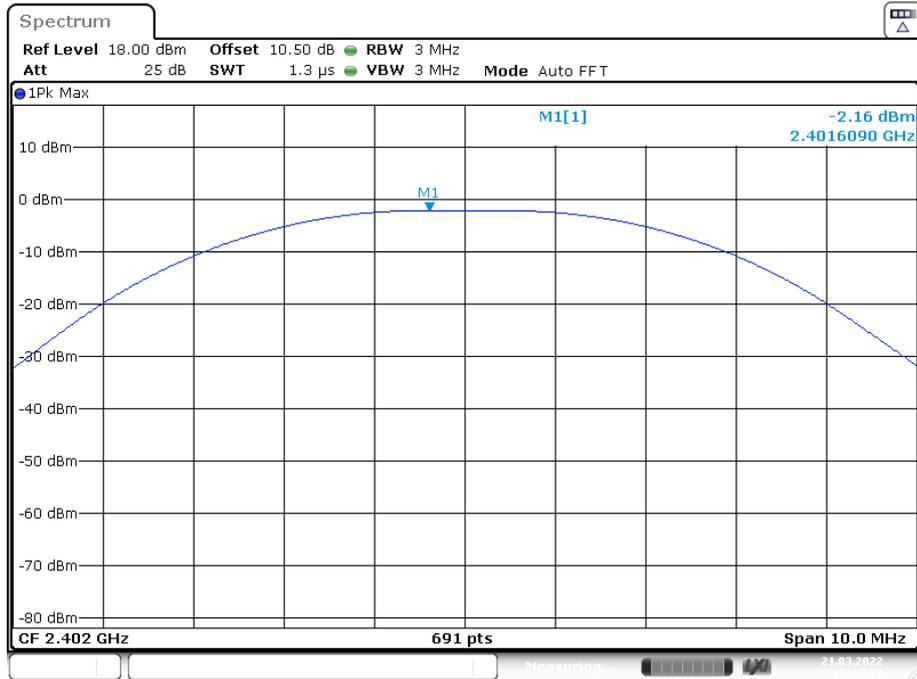
Date: 21.MAR.2022 16:05:18

BLE 1M\_2480



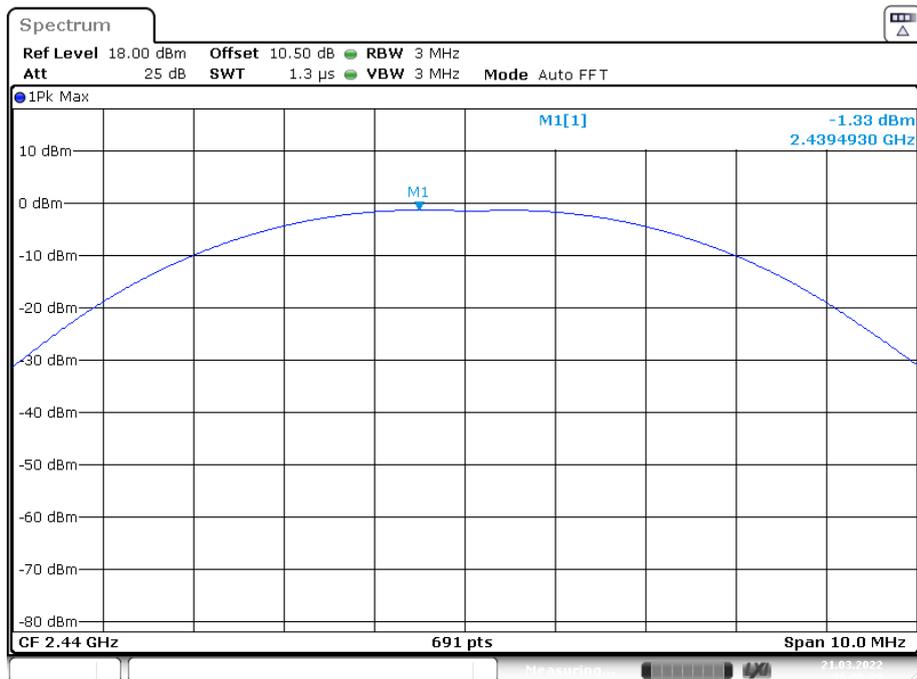
Date: 21.MAR.2022 16:05:38

BLE 2M\_2402



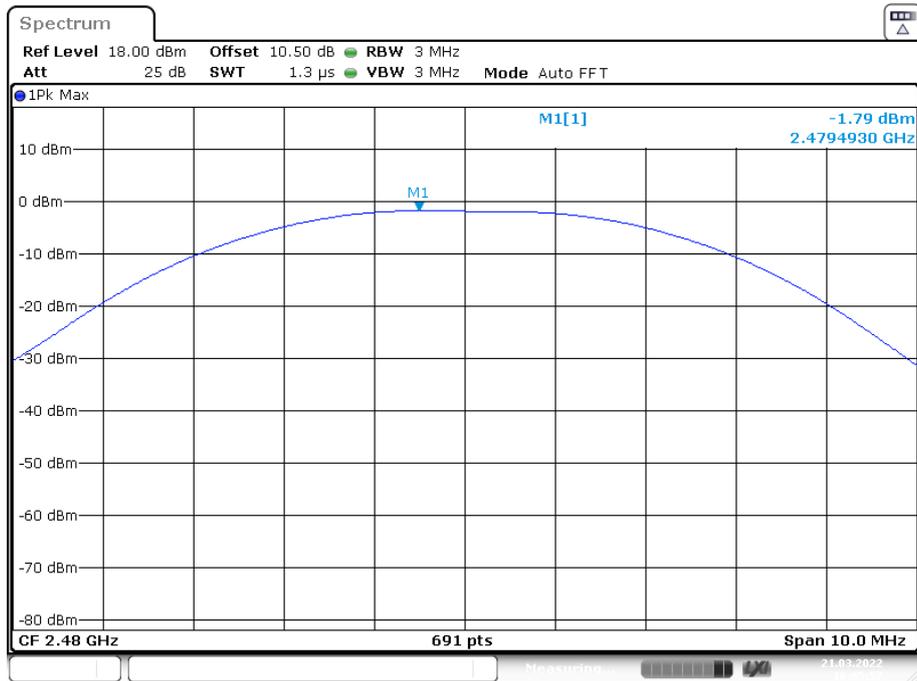
Date: 21.MAR.2022 16:06:53

BLE 2M\_2440



Date: 21.MAR.2022 16:06:30

BLE 2M\_2480

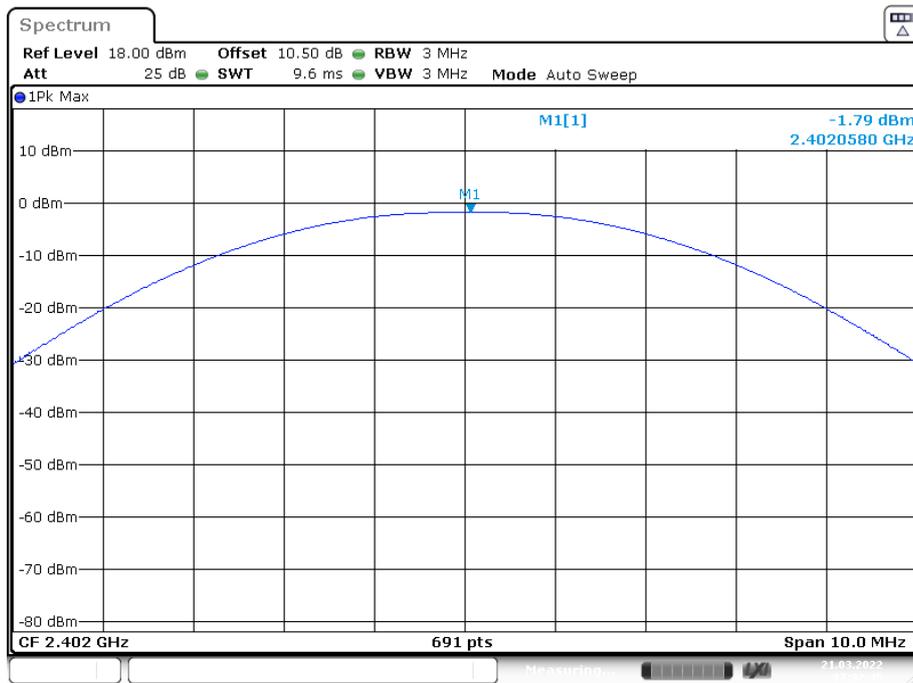


Date: 21.MAR.2022 16:05:57

Ant 2

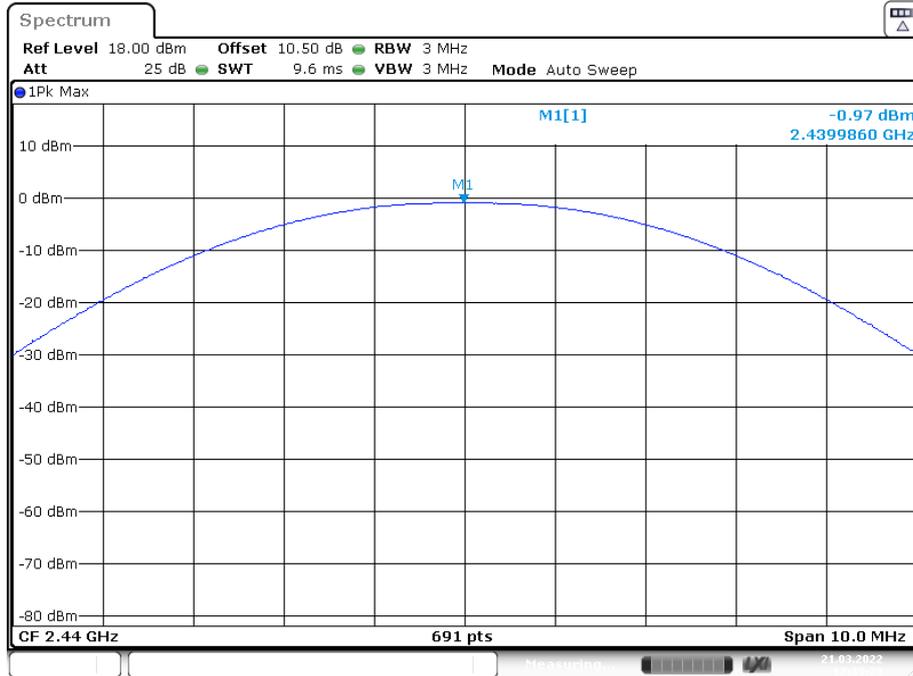
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)
BLE 1M			
Low	2402	-1.79	30
Middle	2440	-0.97	30
High	2480	-1.51	30
BLE 2M			
Low	2402	-1.81	30
Middle	2440	-1.02	30
High	2480	-1.50	30

BLE 1M\_2402



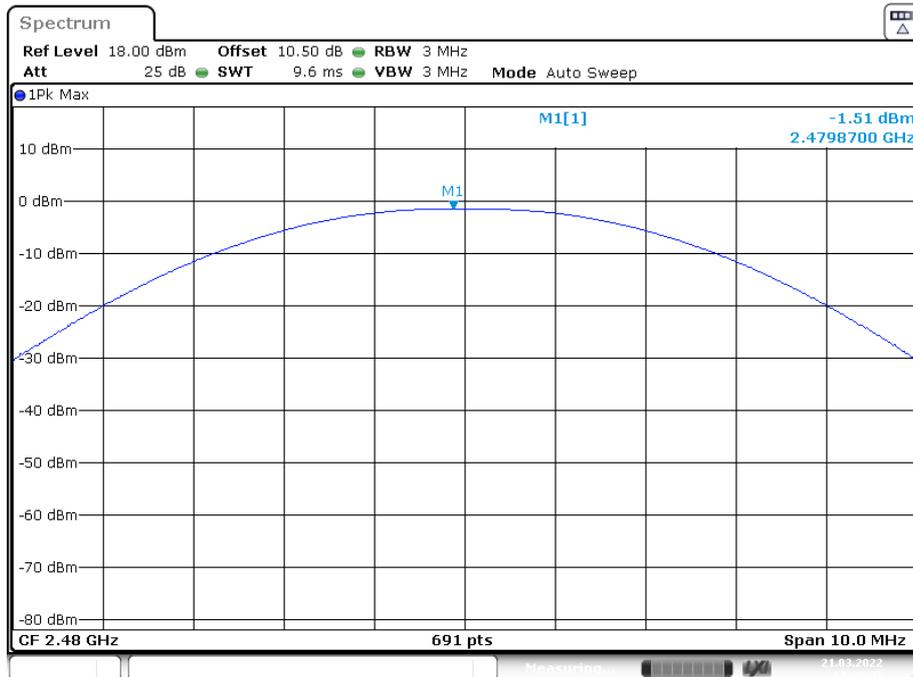
Date: 21.MAR.2022 17:32:45

### BLE 1M\_2440



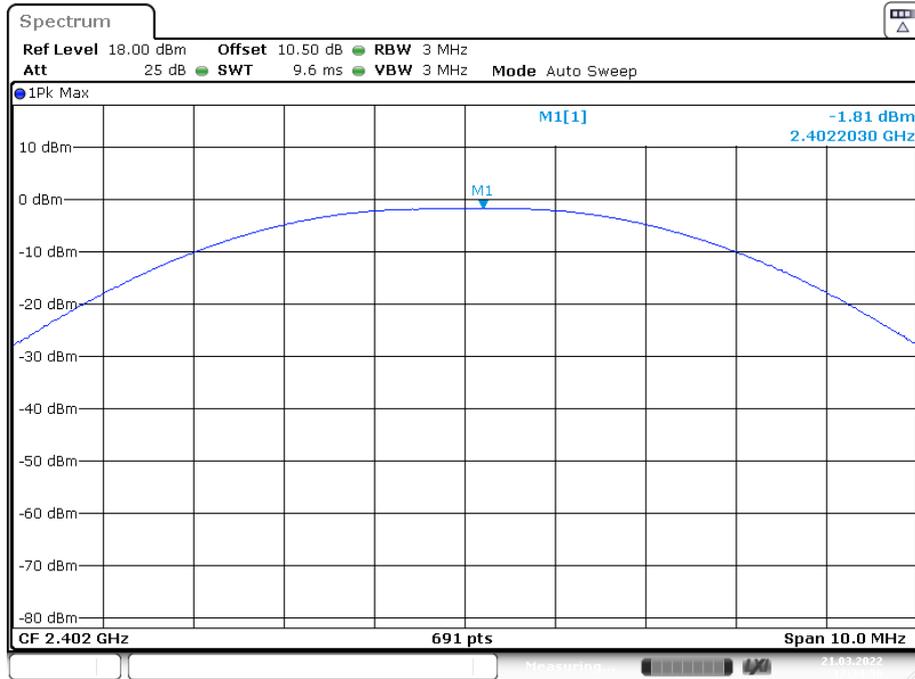
Date: 21.MAR.2022 17:33:23

### BLE 1M\_2480



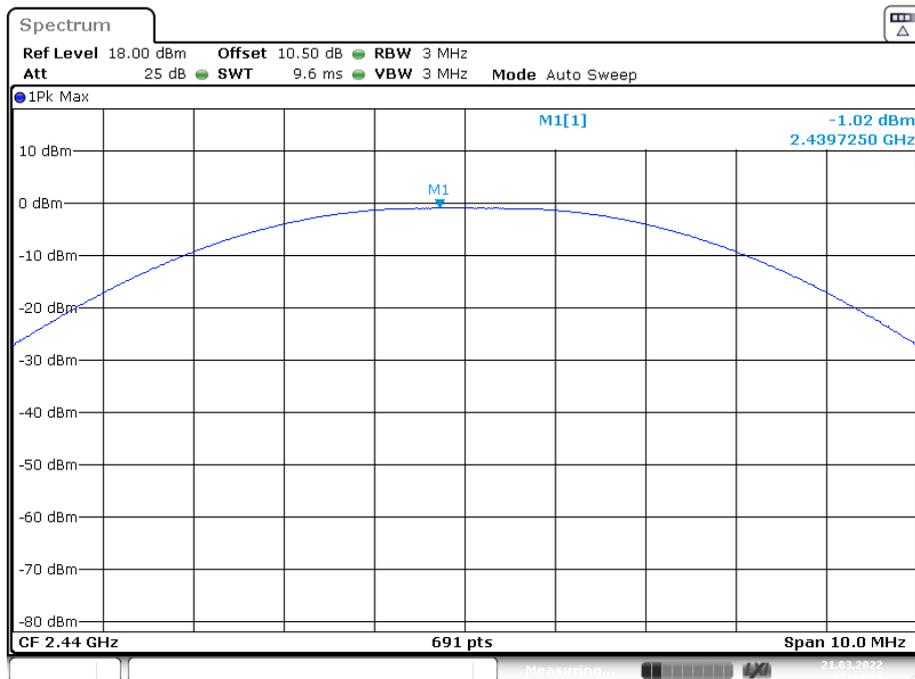
Date: 21.MAR.2022 17:33:41

BLE 2M\_2402



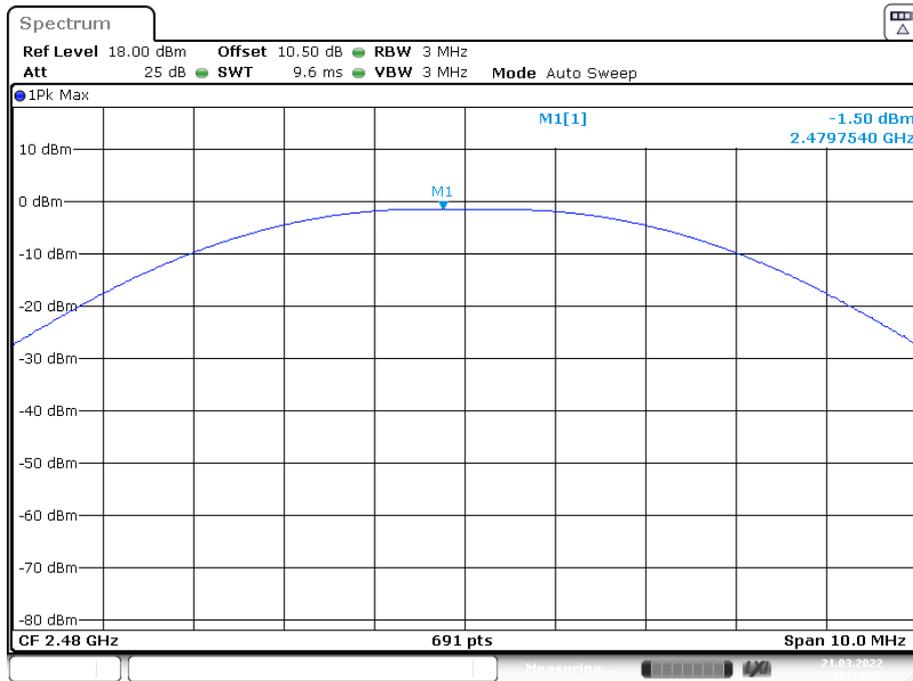
Date: 21.MAR.2022 17:34:56

BLE 2M\_2440



Date: 21.MAR.2022 17:34:19

BLE 2M\_2480



Date: 21.MAR.2022 17:33:57

For Wi-Fi mode, please refer to the Appendix Wi-Fi.

## **FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**

### **Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS Averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

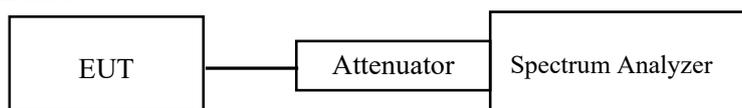
### **Test Procedure**

- g. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- h. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- i. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- j. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- k. Repeat above procedures until all measured frequencies were complete.

For Wi-Fi mode:



For BLE mode:



### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	19~26℃
<b>Relative Humidity:</b>	48~57.3 %
<b>ATM Pressure:</b>	100~101.0 kPa

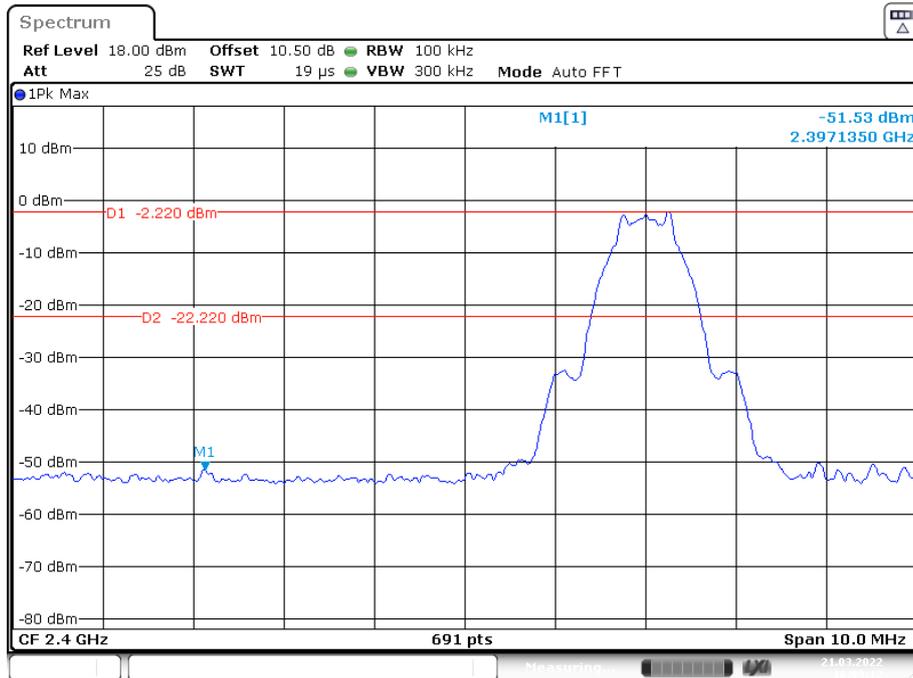
The testing was performed by Key Pei on 2022-03-03 and 2022-03-29 for wifi and Black Ding on 2022-03-21 for BLE.

EUT operation mode: Transmitting

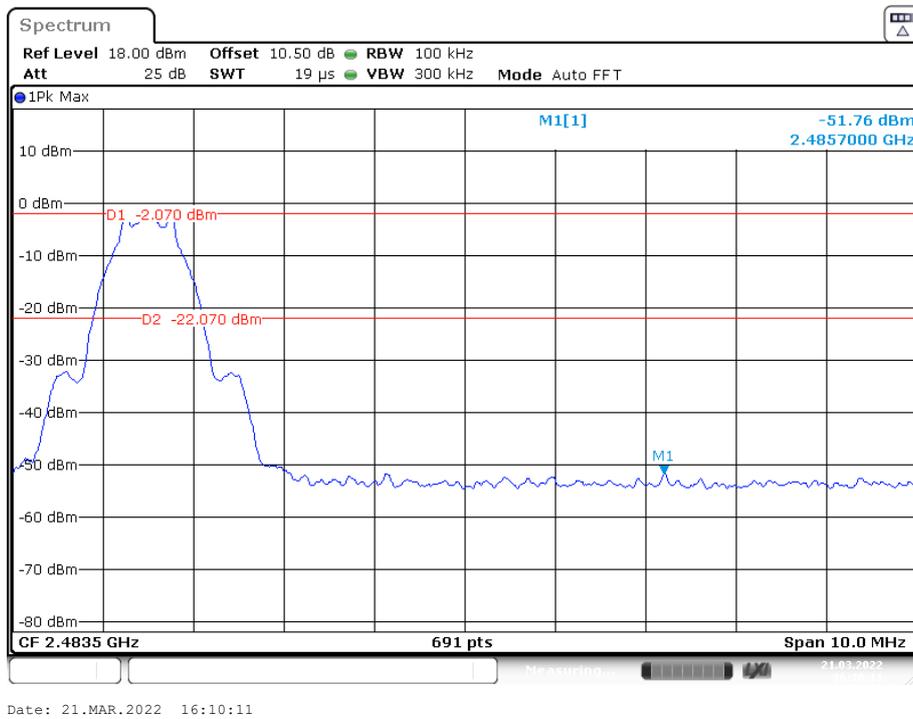
Test Result: Compliant.

Ant 1

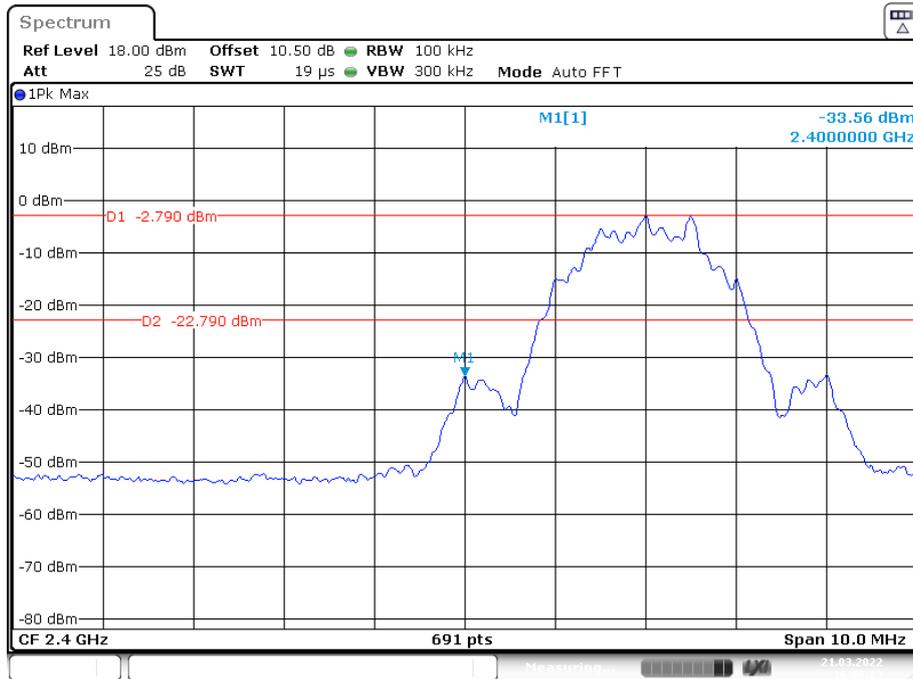
### BLE 1M\_Low\_2402MHz



### BLE 1M\_High\_2480MHz

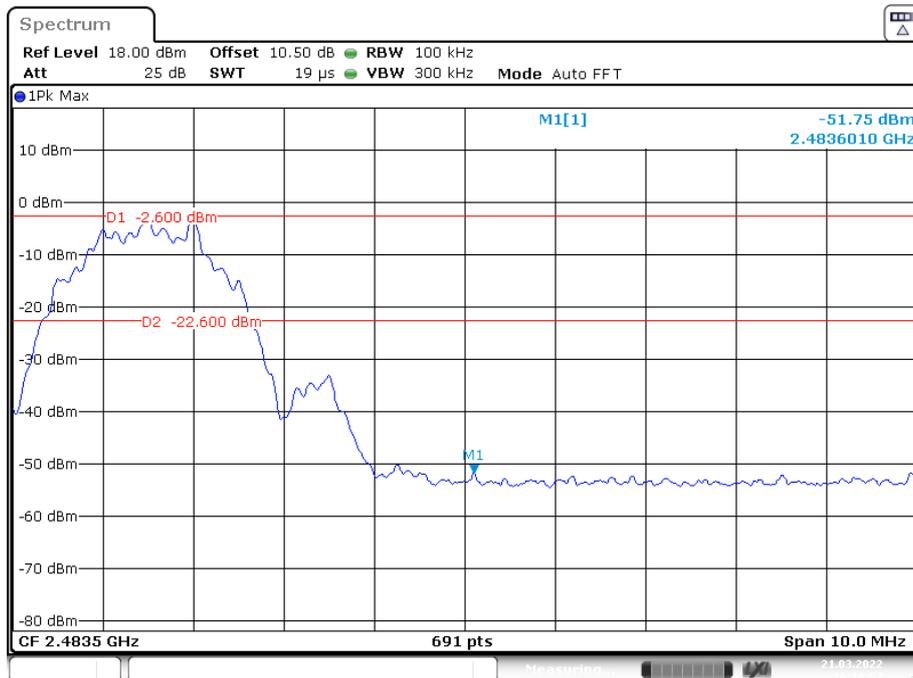


### BLE 2M\_Low\_2402MHz



Date: 21.MAR.2022 16:08:23

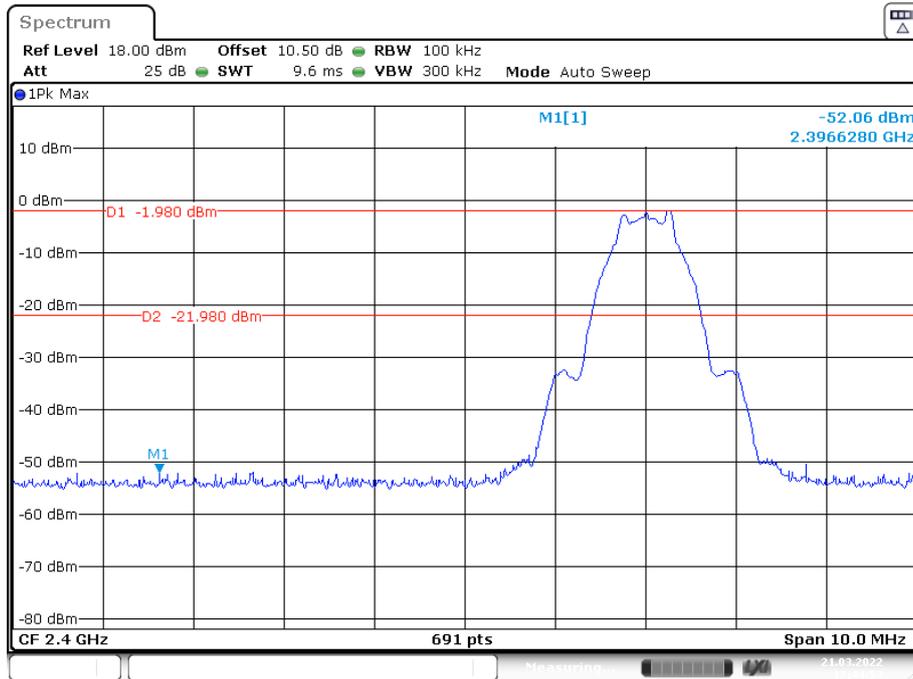
### BLE 2M\_High\_2480MHz



Date: 21.MAR.2022 16:10:52

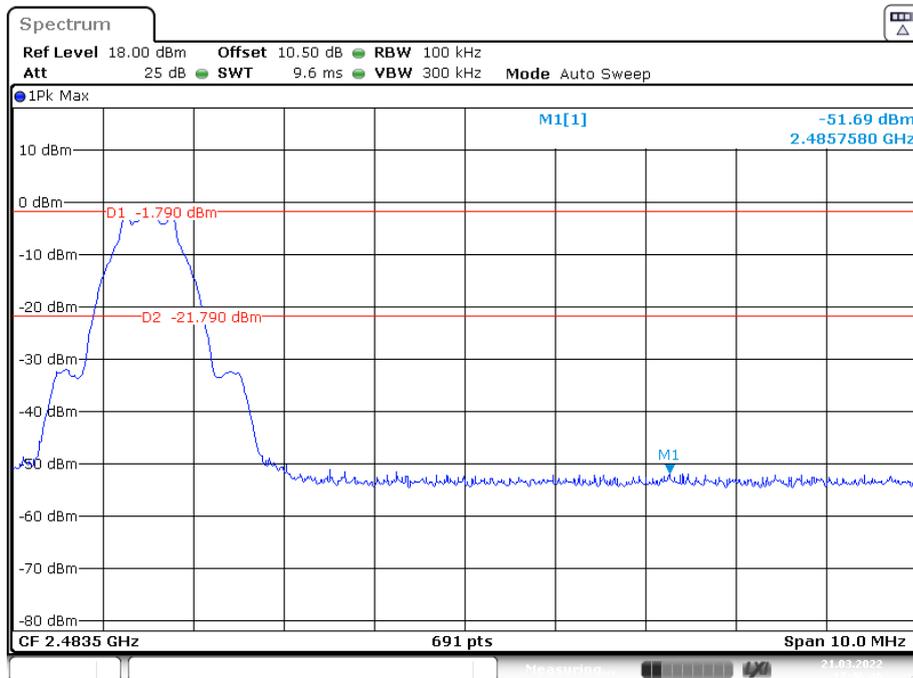
ANT 2:

BLE 1M\_Low\_2402MHz



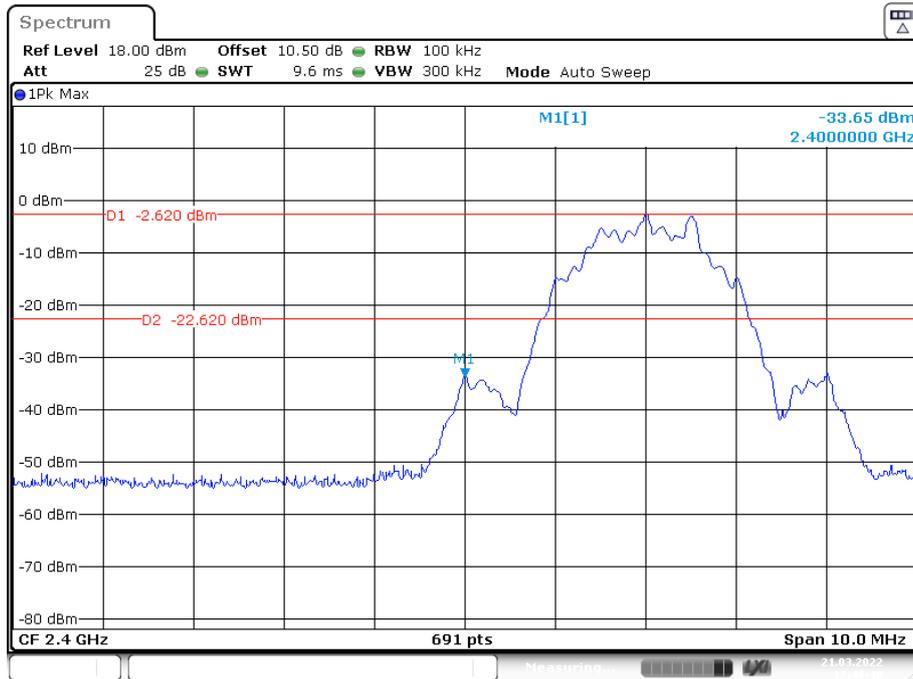
Date: 21.MAR.2022 17:44:53

BLE 1M\_High\_2480MHz



Date: 21.MAR.2022 17:46:46

### BLE 2M\_Low\_2402MHz



### BLE 2M\_High\_2480MHz



For Wi-Fi mode, please refer to the Appendix Wi-Fi.

## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

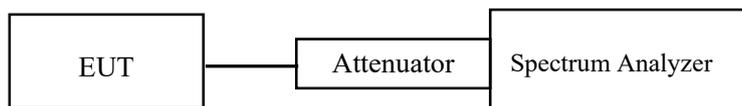
### Test Procedure

- l. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- m. Set the RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
- n. Set the VBW  $\geq 3 \times \text{RBW}$ .
- o. Set the span to 1.5 times the DTS bandwidth.
- p. Detector = peak.
- q. Sweep time = auto couple.
- r. Trace mode = max hold.
- s. Allow trace to fully stabilize.
- t. Use the peak marker function to determine the maximum amplitude level within the RBW.
- u. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

For Wi-Fi mode:



For BLE mode:



### Test Data

#### Environmental Conditions

<b>Temperature:</b>	19~26°C
<b>Relative Humidity:</b>	48~57.3 %
<b>ATM Pressure:</b>	100~101.0 kPa

The testing was performed by Key Pei on 2022-03-03 and 2022-03-29 for wifi and Black Ding on 2022-03-21 for BLE.

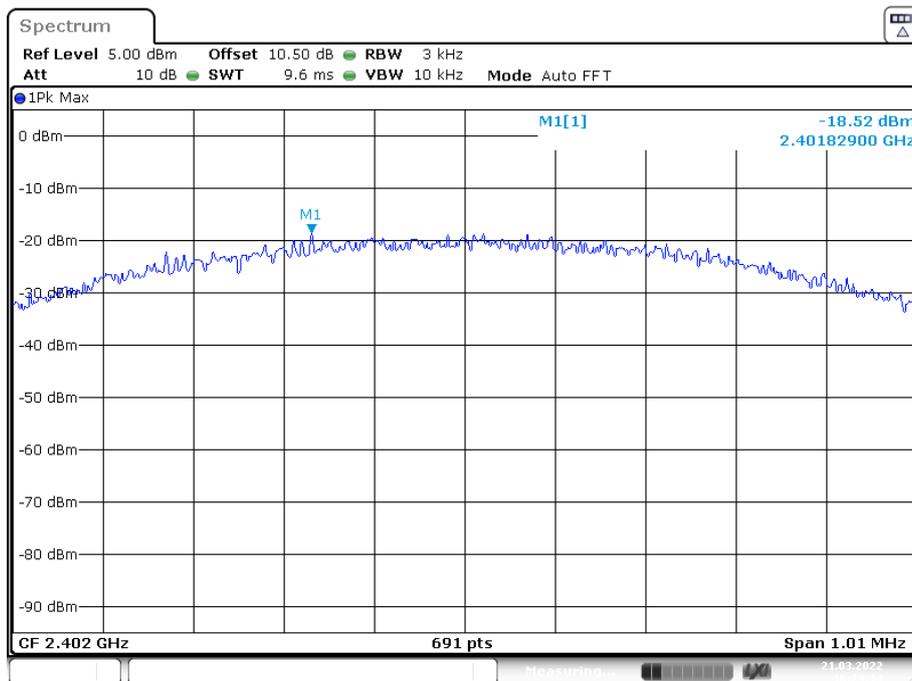
*EUT operation mode: Transmitting*

Test Result: Compliant.

Ant 1

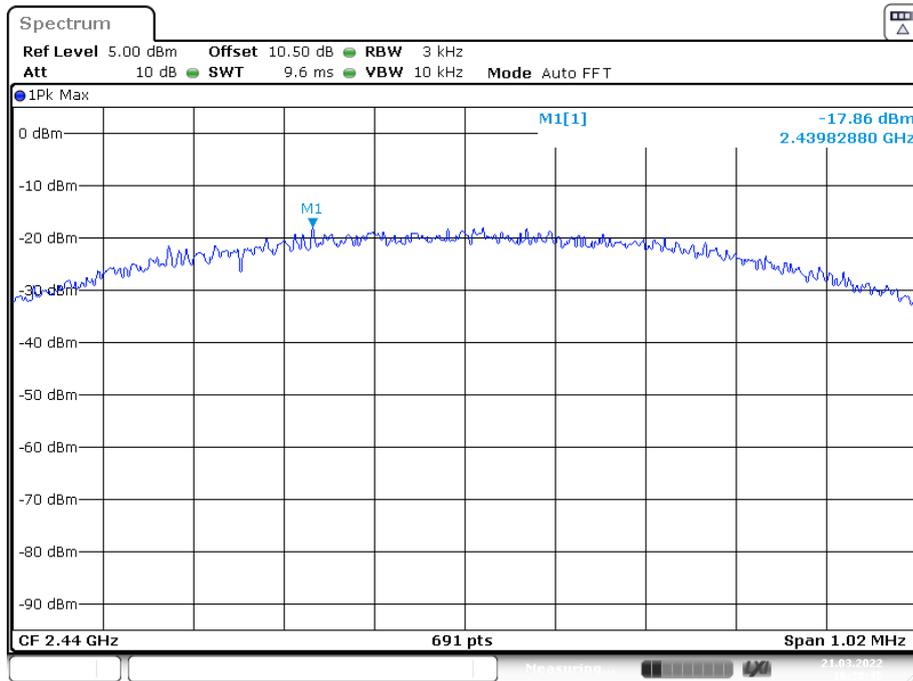
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1M			
Low	2402	-18.52	≤8
Middle	2440	-17.86	≤8
High	2480	-18.42	≤8
BLE 2M			
Low	2402	-20.52	≤8
Middle	2440	-19.96	≤8
High	2480	-20.58	≤8

BLE 1M\_2402



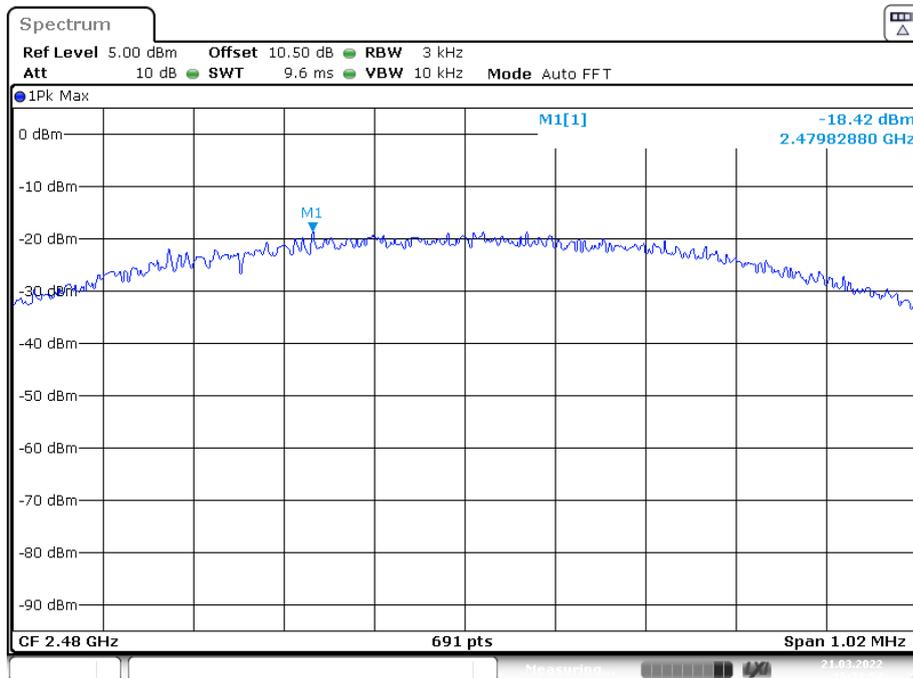
Date: 21.MAR.2022 16:29:14

BLE 1M\_2440



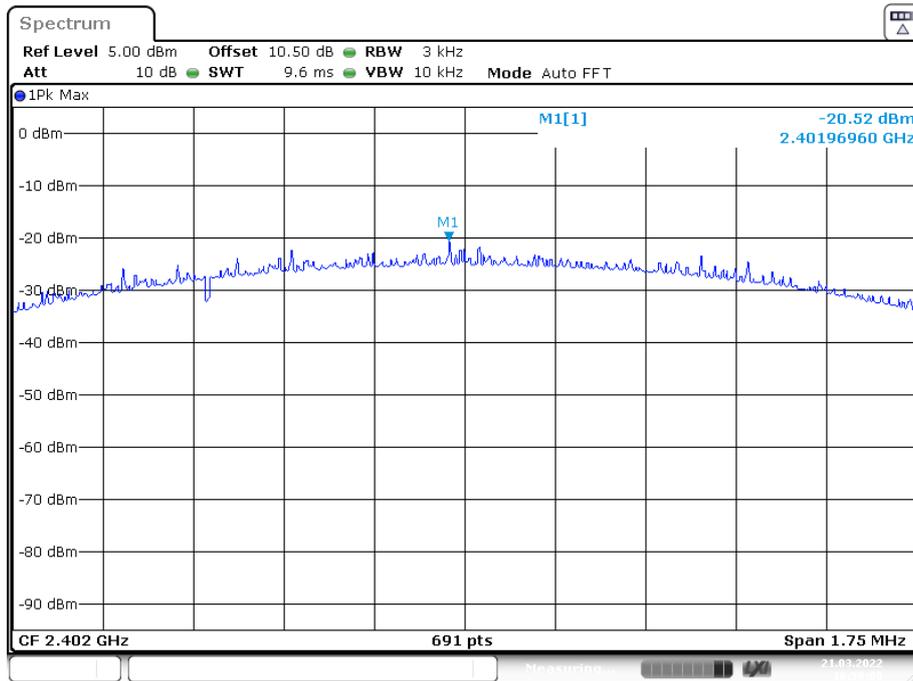
Date: 21.MAR.2022 16:28:35

BLE 1M\_2480



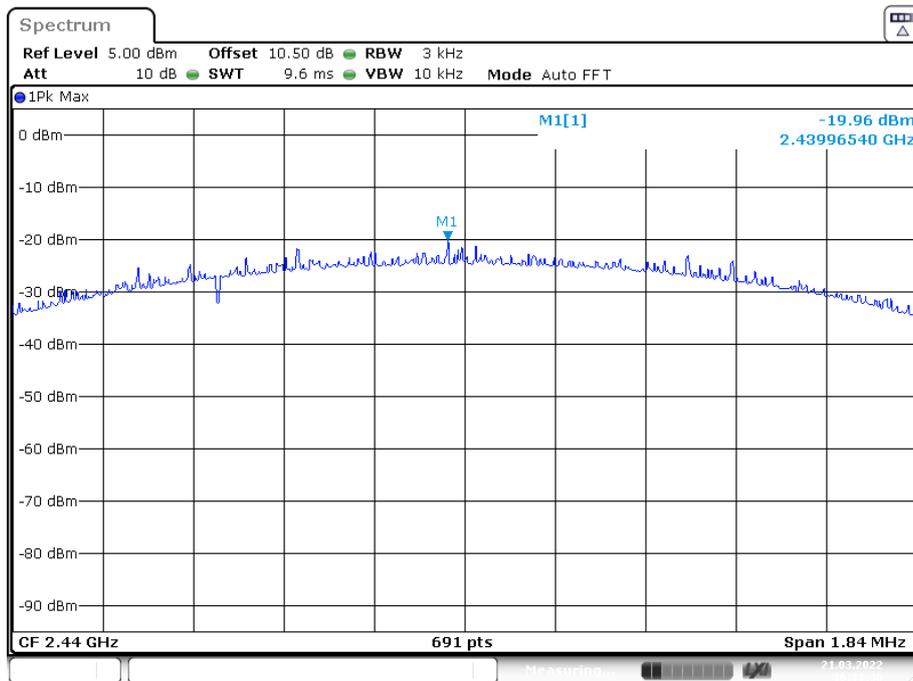
Date: 21.MAR.2022 16:27:54

BLE 2M\_2402



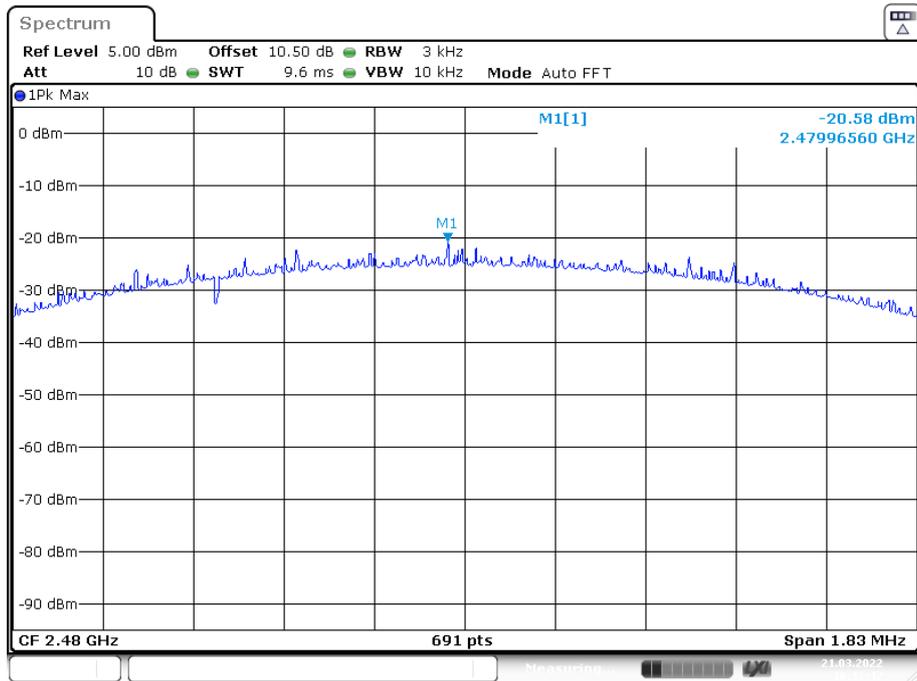
Date: 21.MAR.2022 16:58:09

BLE 2M\_2440



Date: 21.MAR.2022 16:31:36

BLE 2M\_2480

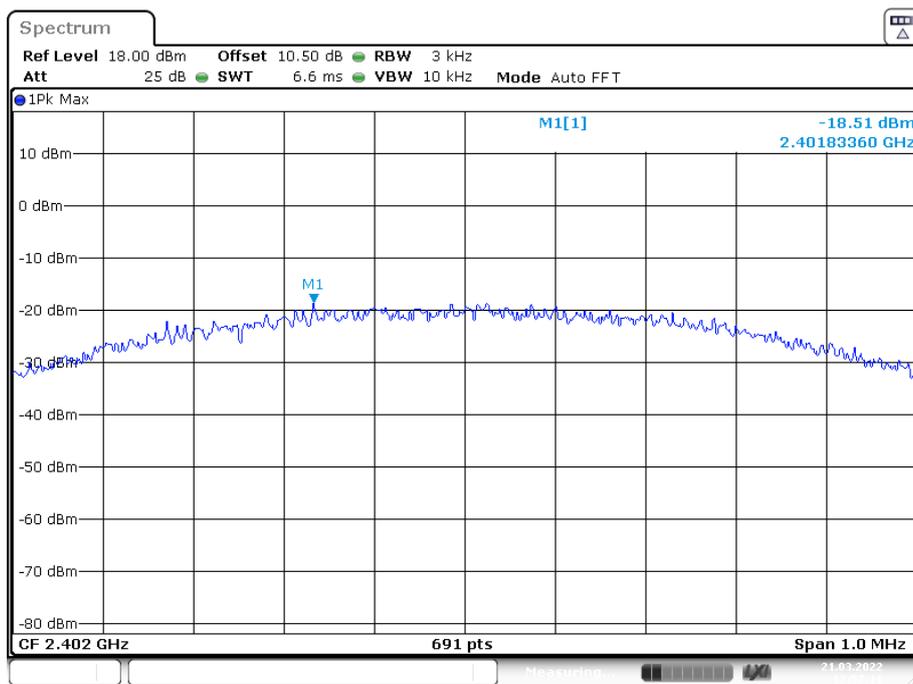


Date: 21.MAR.2022 16:32:42

Ant 2

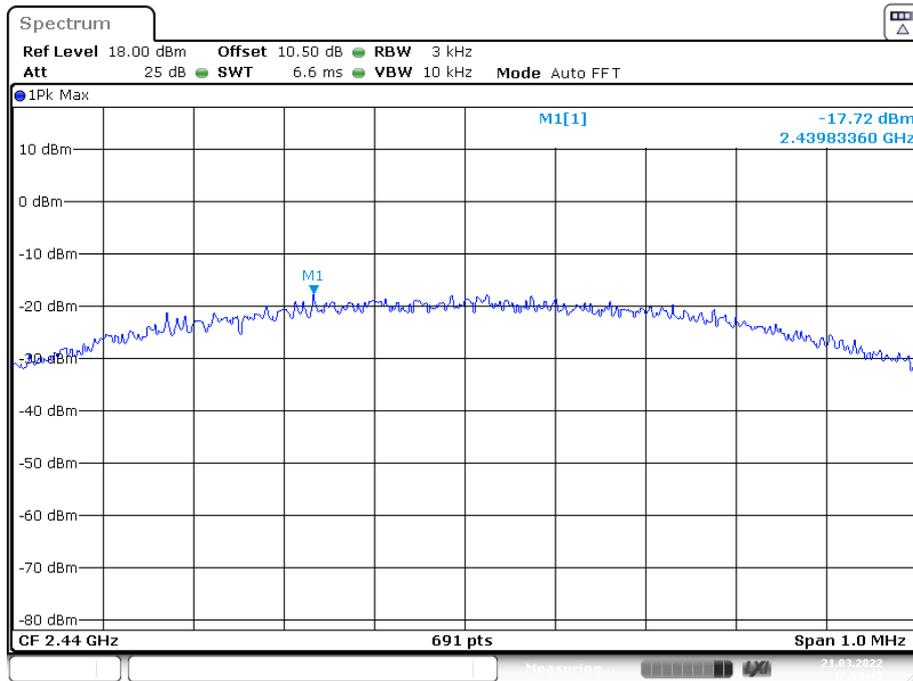
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1M			
Low	2402	-18.51	≤8
Middle	2440	-17.72	≤8
High	2480	-18.29	≤8
BLE 2M			
Low	2402	-20.71	≤8
Middle	2440	-19.89	≤8
High	2480	-20.39	≤8

BLE 1M\_2402



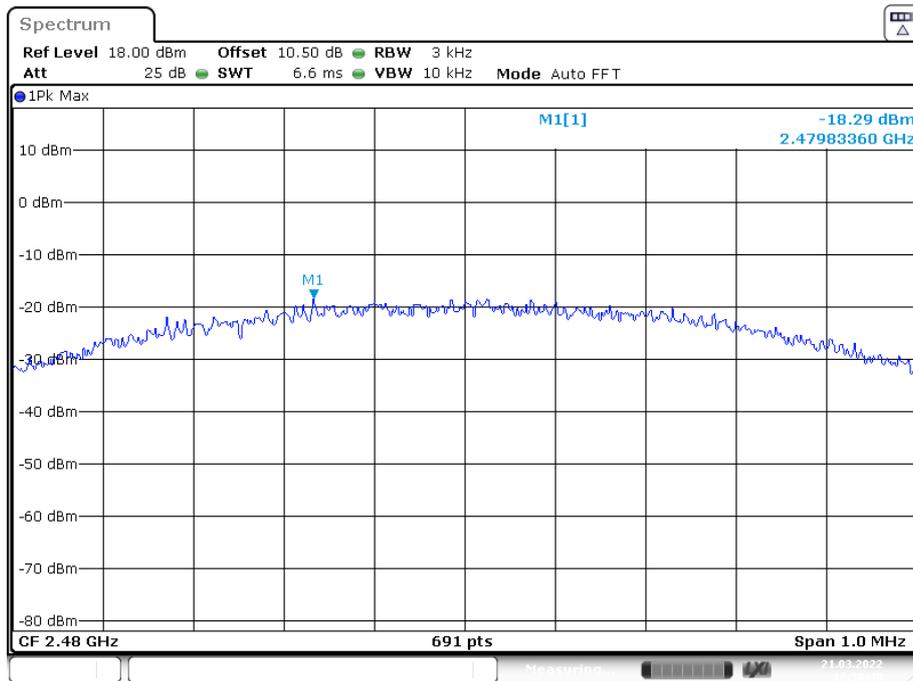
Date: 21.MAR.2022 17:57:11

BLE 1M\_2440



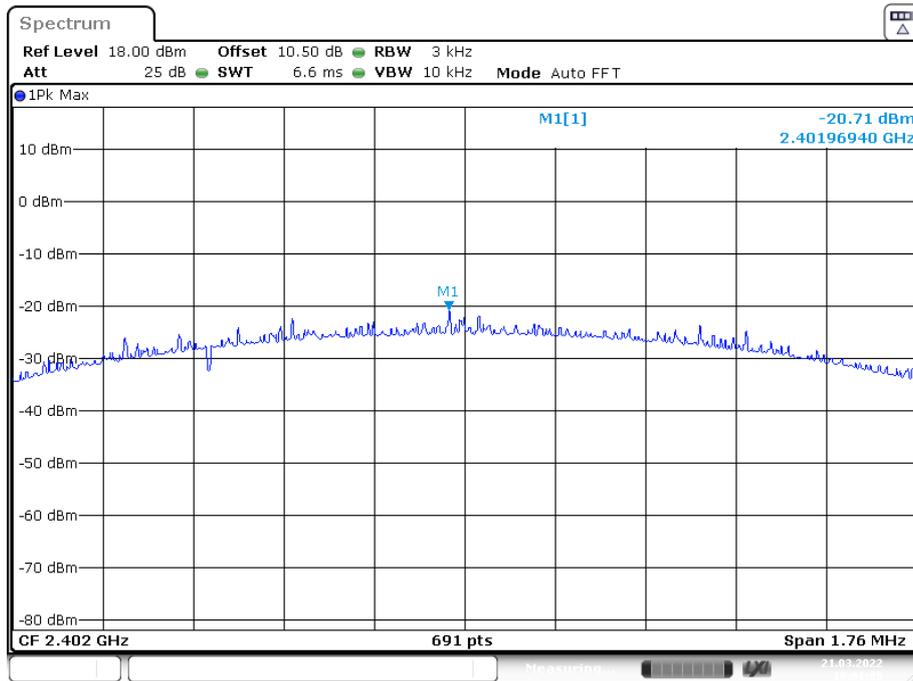
Date: 21.MAR.2022 17:58:16

BLE 1M\_2480



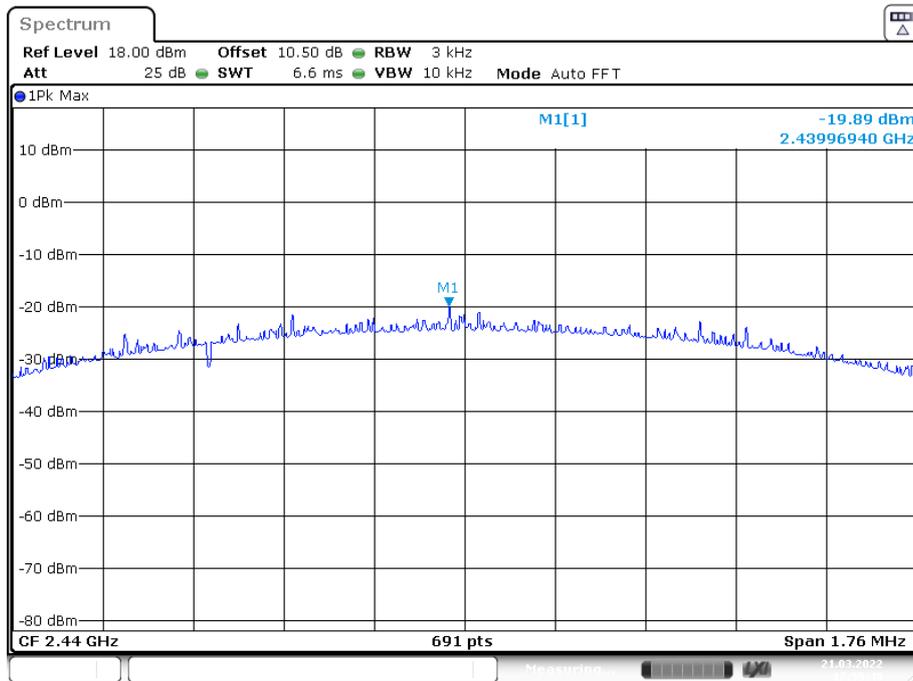
Date: 21.MAR.2022 17:58:40

BLE 2M\_2402



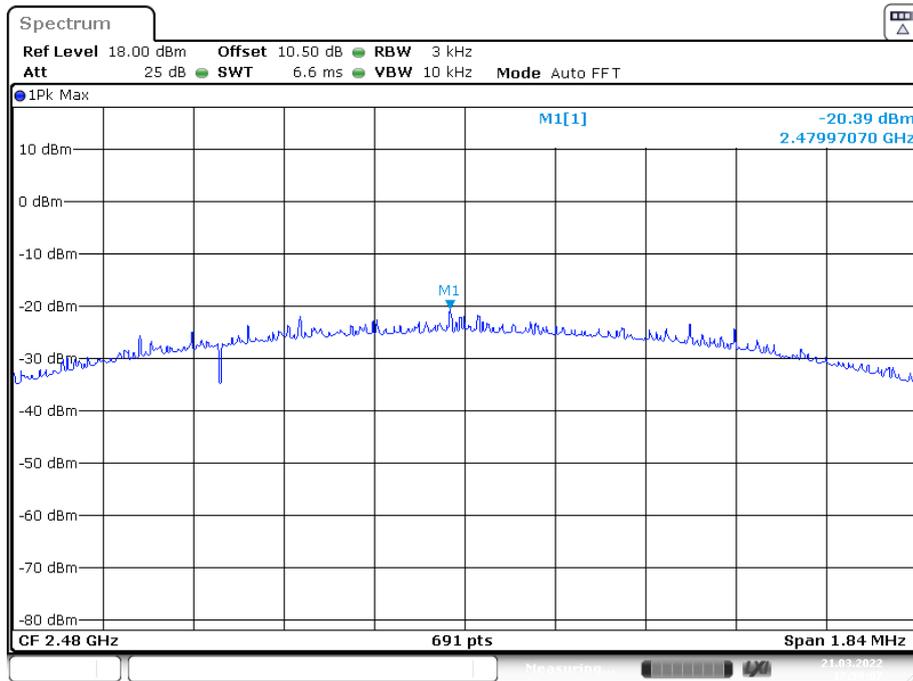
Date: 21.MAR.2022 18:01:29

BLE 2M\_2440



Date: 21.MAR.2022 17:59:50

BLE 2M\_2480



Date: 21.MAR.2022 17:59:07

For Wi-Fi mode, please refer to the Appendix Wi-Fi.

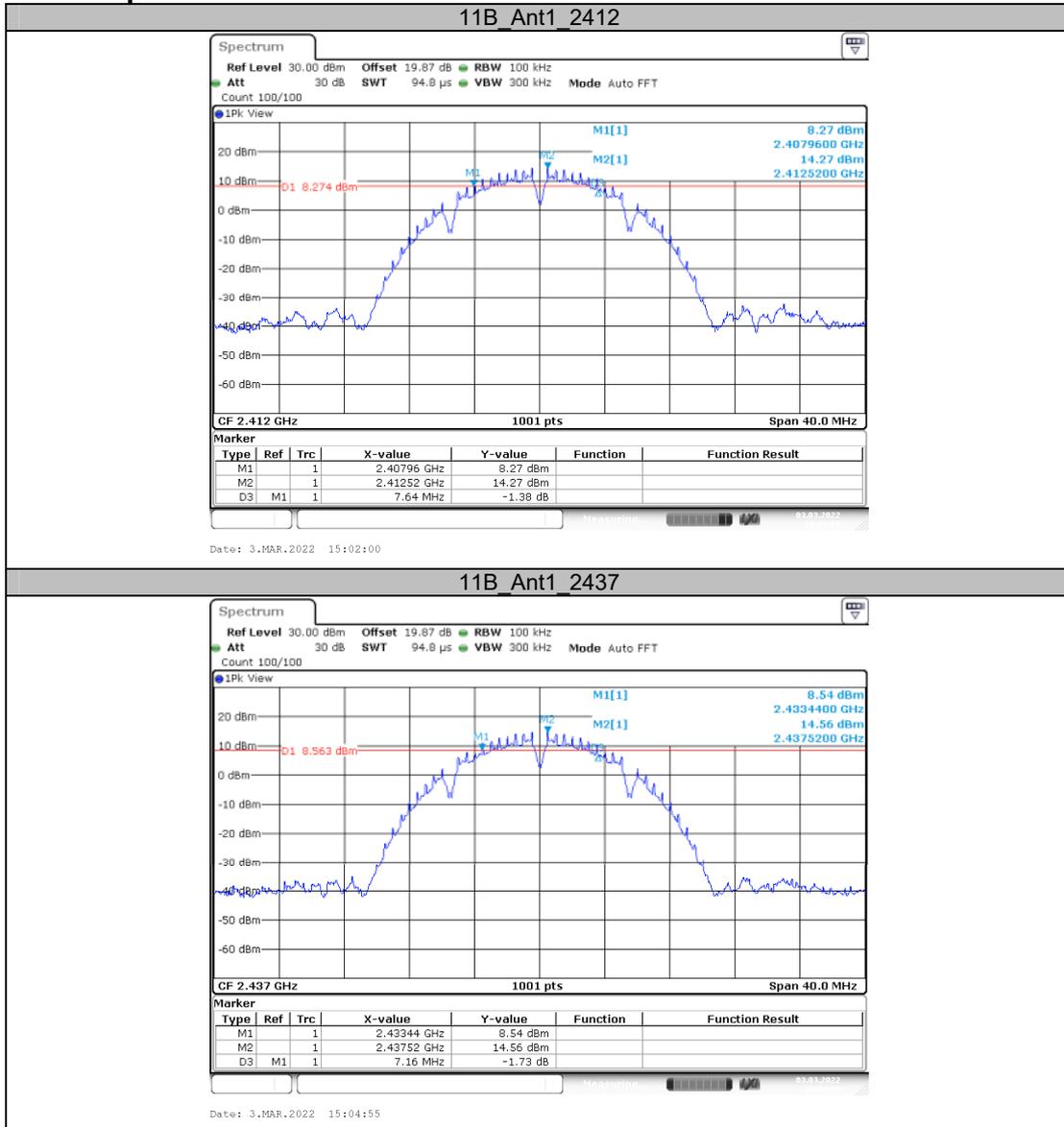
## APPENDIX Wi-Fi

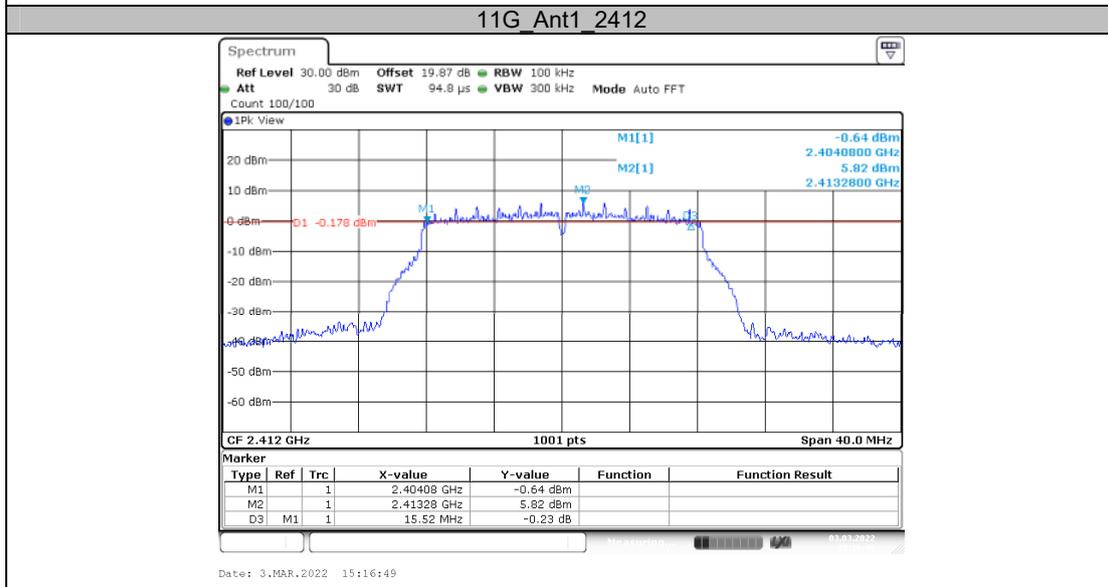
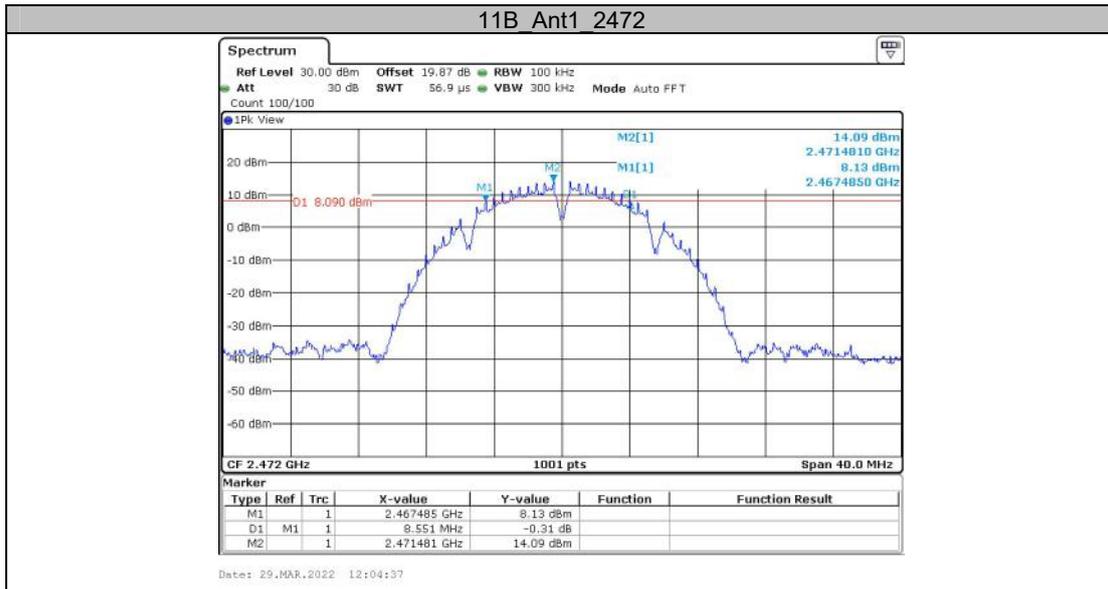
### Appendix A: DTS Bandwidth Test Result

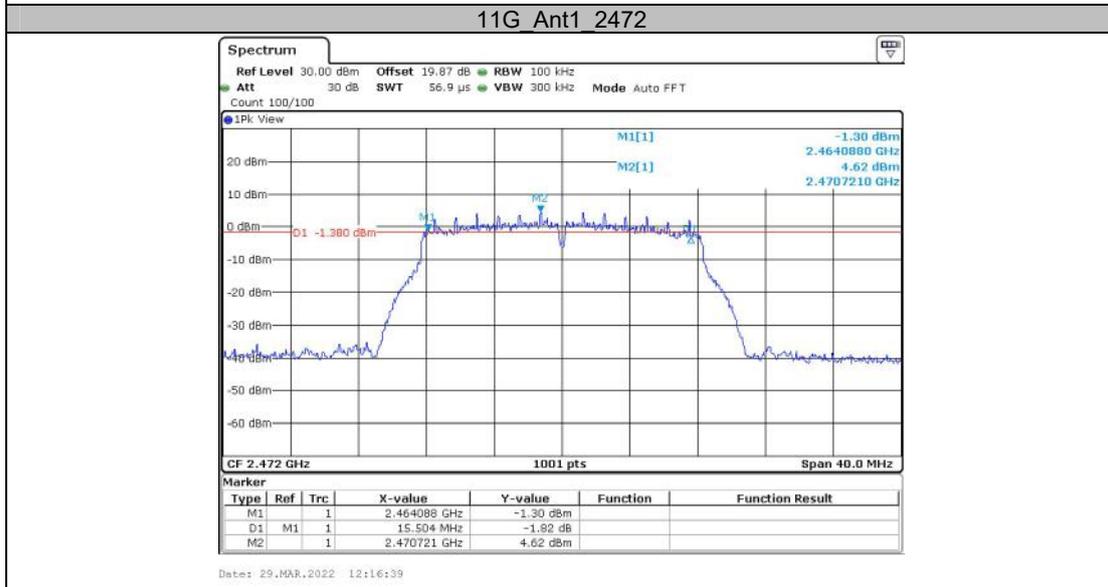
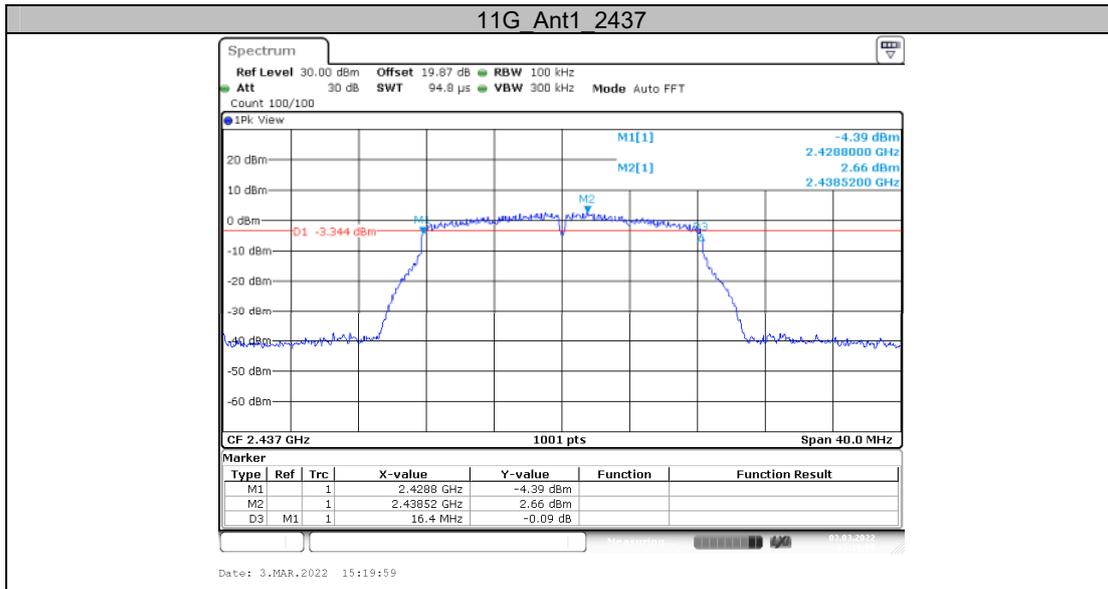
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.640	2407.960	2415.600	0.5	PASS
		2437	7.160	2433.440	2440.600	0.5	PASS
		2472	8.511	2467.485	2471.481	0.5	PASS
11G	Ant1	2412	15.520	2404.080	2419.600	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2472	15.504	2464.088	2479.592	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.160	2420.840	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2472	16.344	2463.249	2479.539	0.5	PASS
11N40SISO	Ant1	2422	36.240	2404.080	2440.320	0.5	PASS
		2437	34.000	2419.720	2453.720	0.5	PASS
		2462	35.085	2444.418	2479.503	0.5	PASS

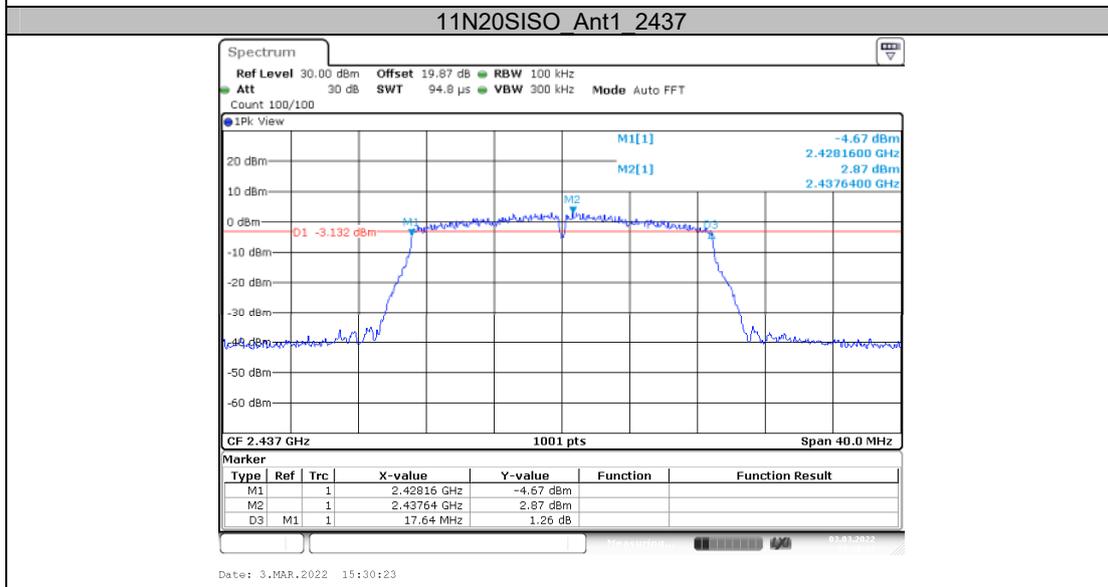
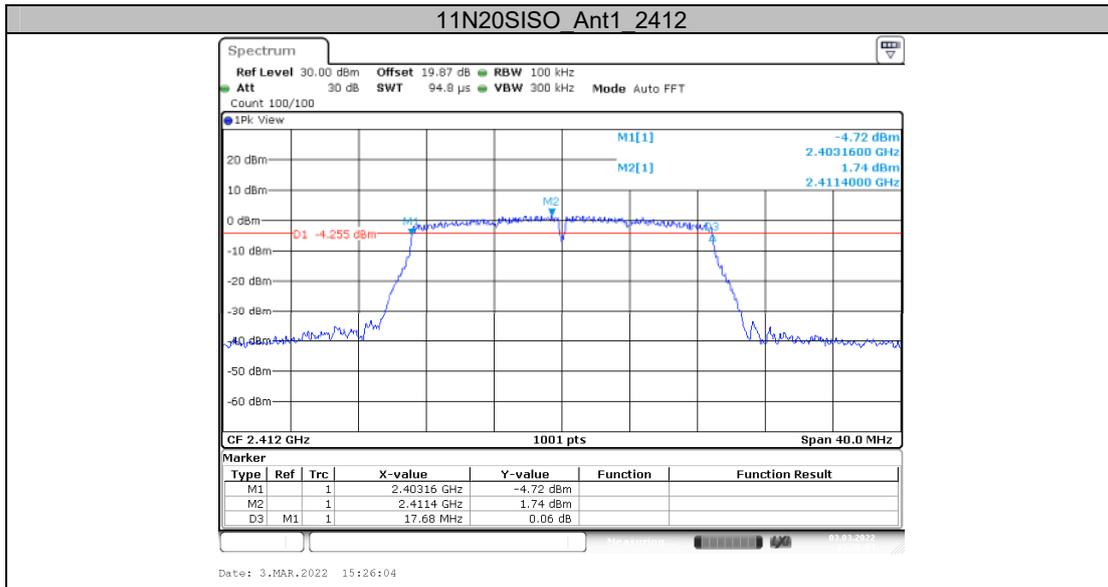
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	9.120	2407.440	2416.560	0.5	PASS
		2437	7.640	2432.960	2440.600	0.5	PASS
		2472	8.551	2467.485	2476.036	0.5	PASS
11G	Ant2	2412	16.600	2403.720	2420.320	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2472	15.704	2464.048	2479.752	0.5	PASS
11N20SISO	Ant2	2412	17.680	2403.160	2420.840	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2472	16.024	2463.568	2479.592	0.5	PASS
11N40SISO	Ant2	2422	36.320	2404.000	2440.320	0.5	PASS
		2437	34.000	2419.160	2453.160	0.5	PASS
		2462	35.165	2444.418	2479.583	0.5	PASS

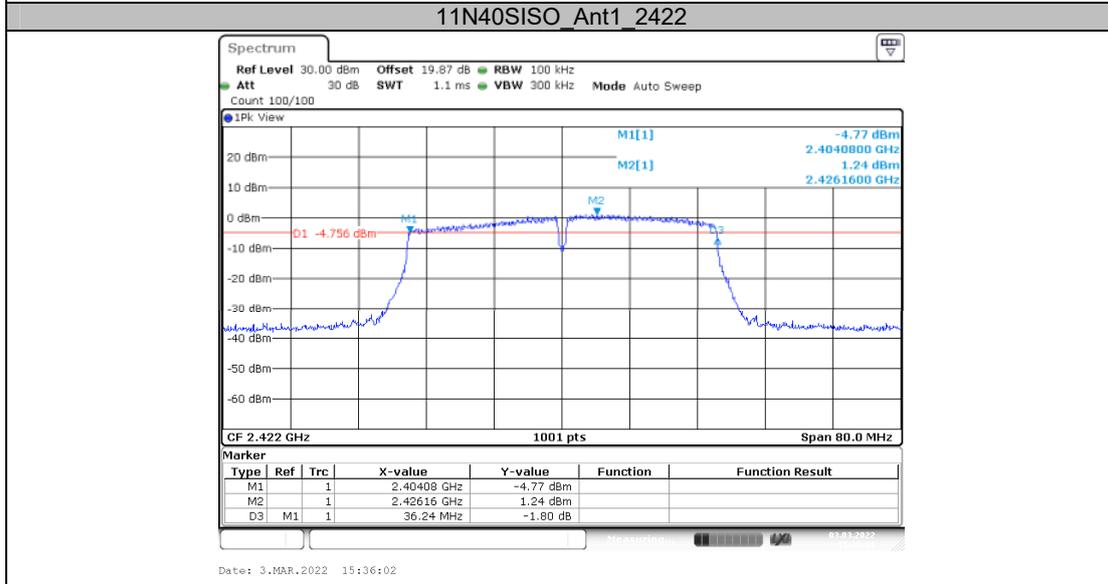
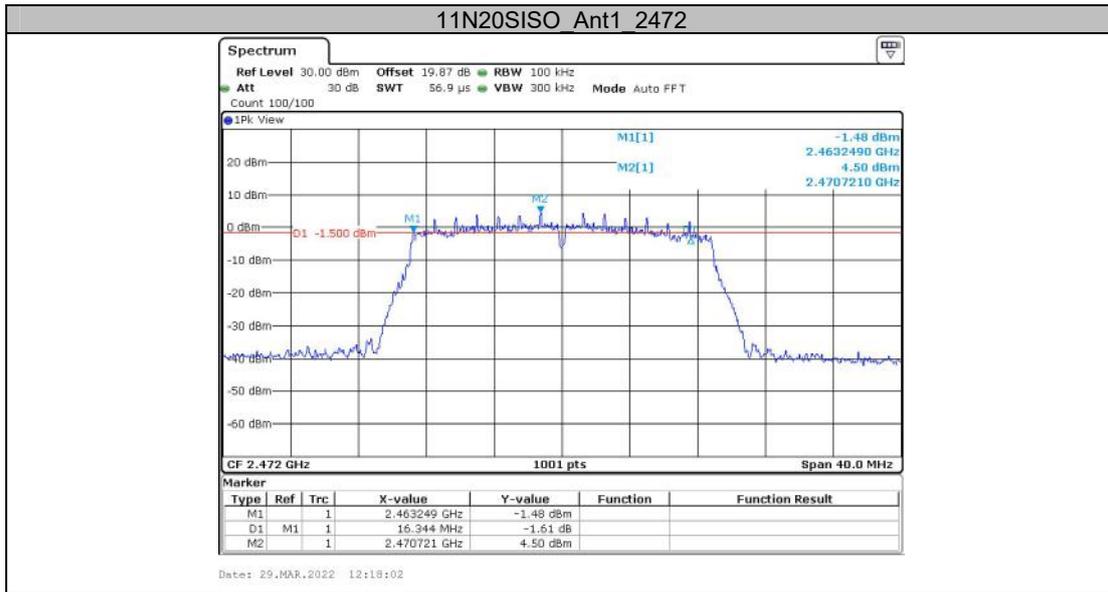
### Test Graphs

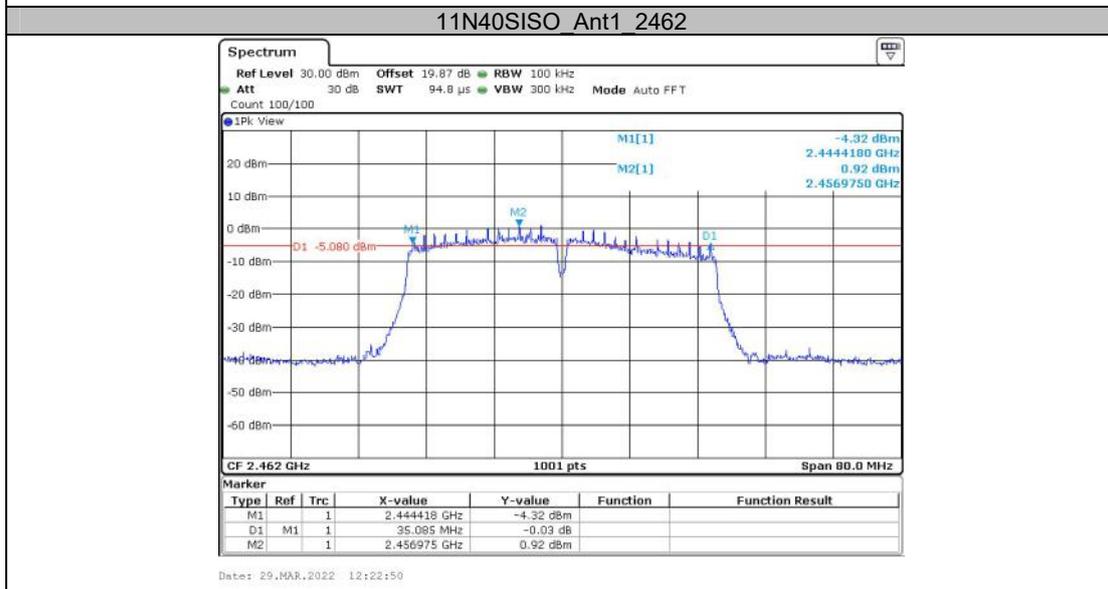
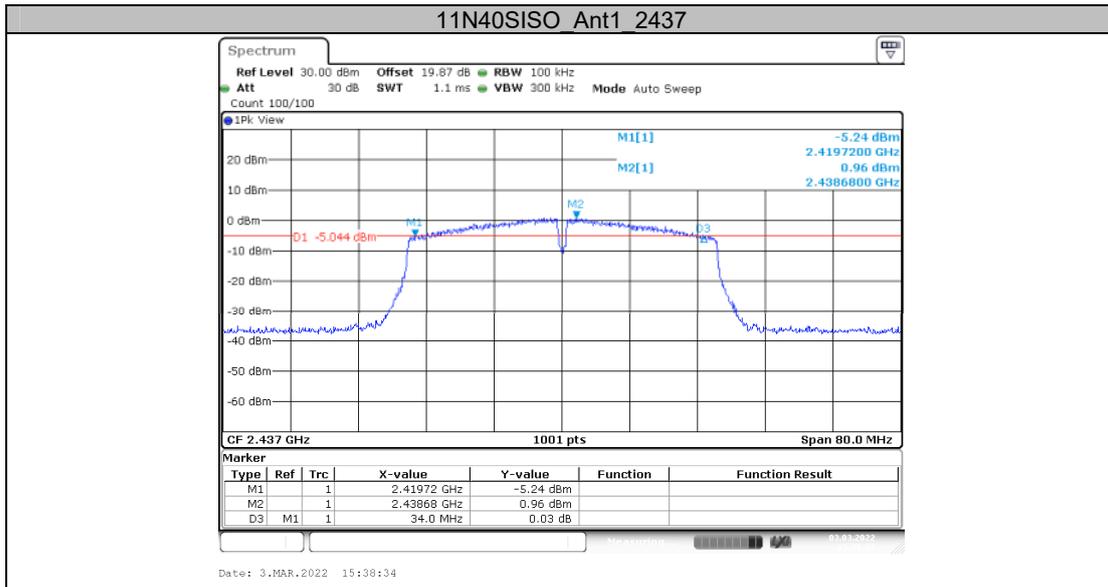


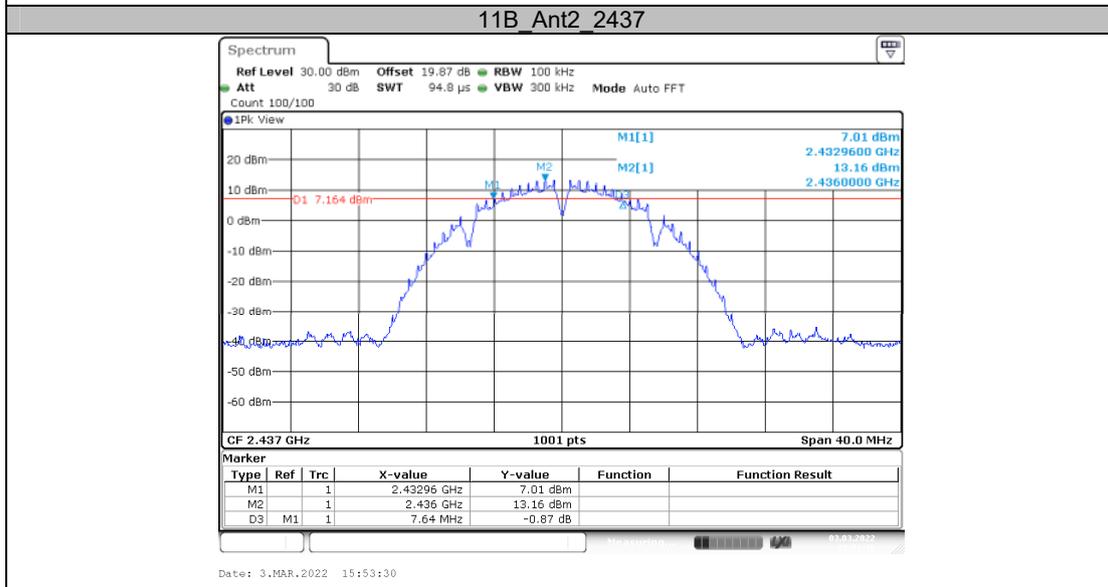
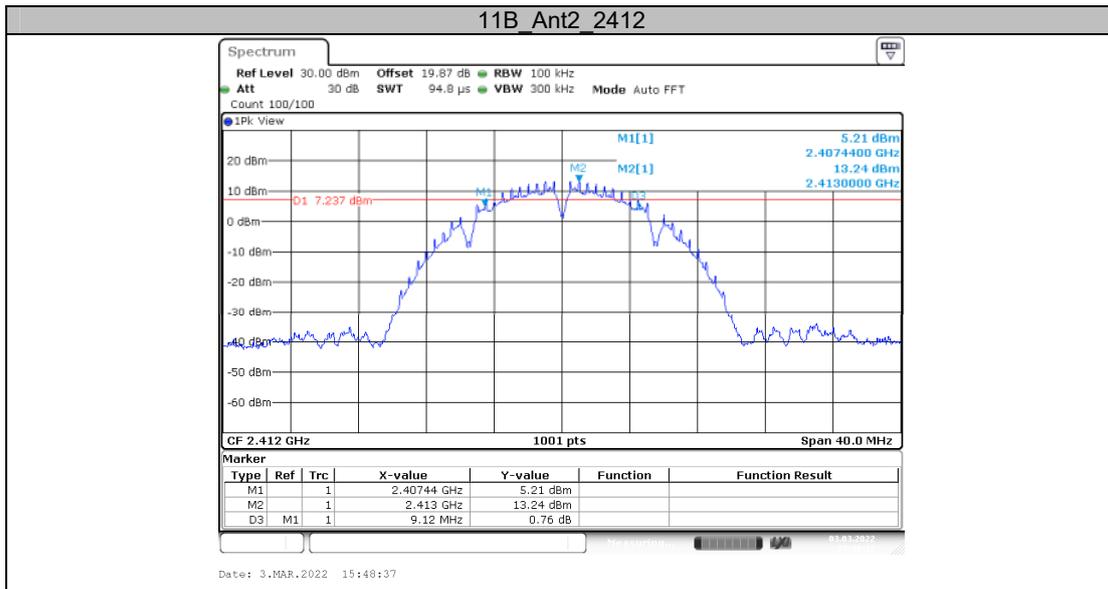


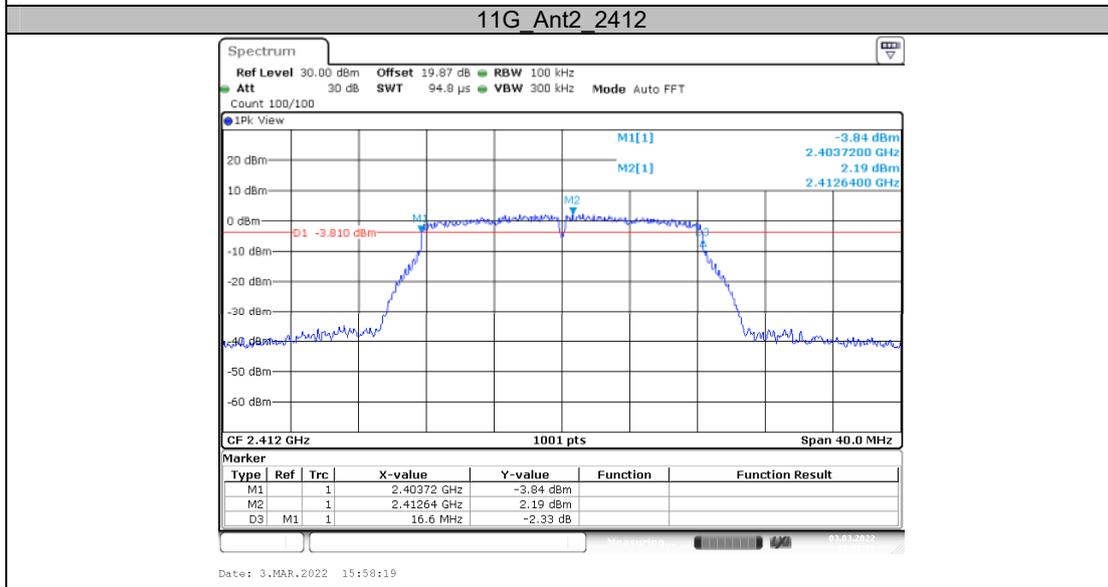
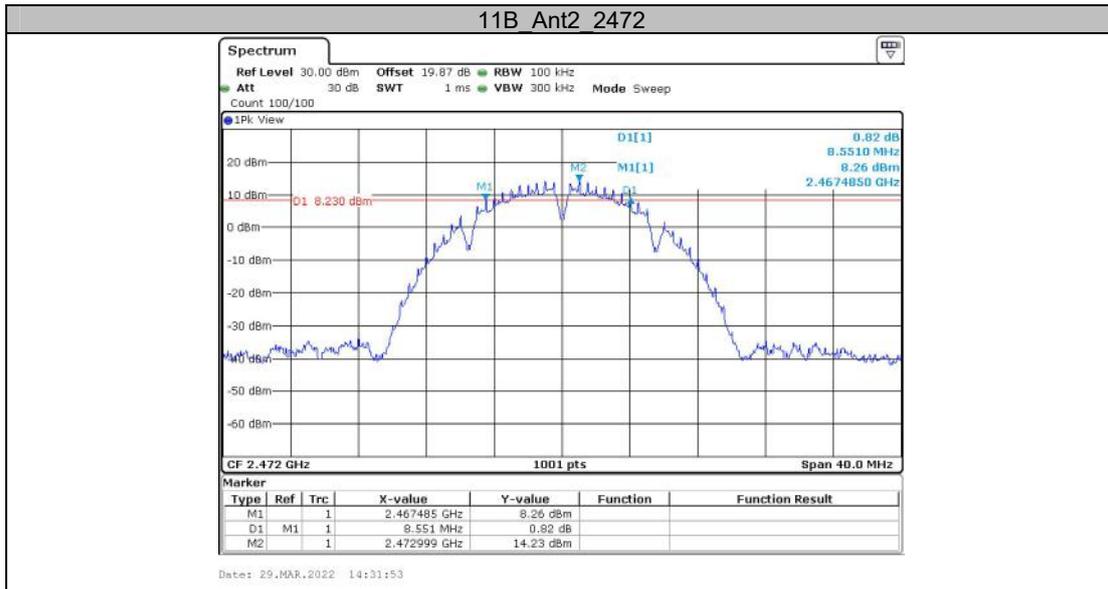


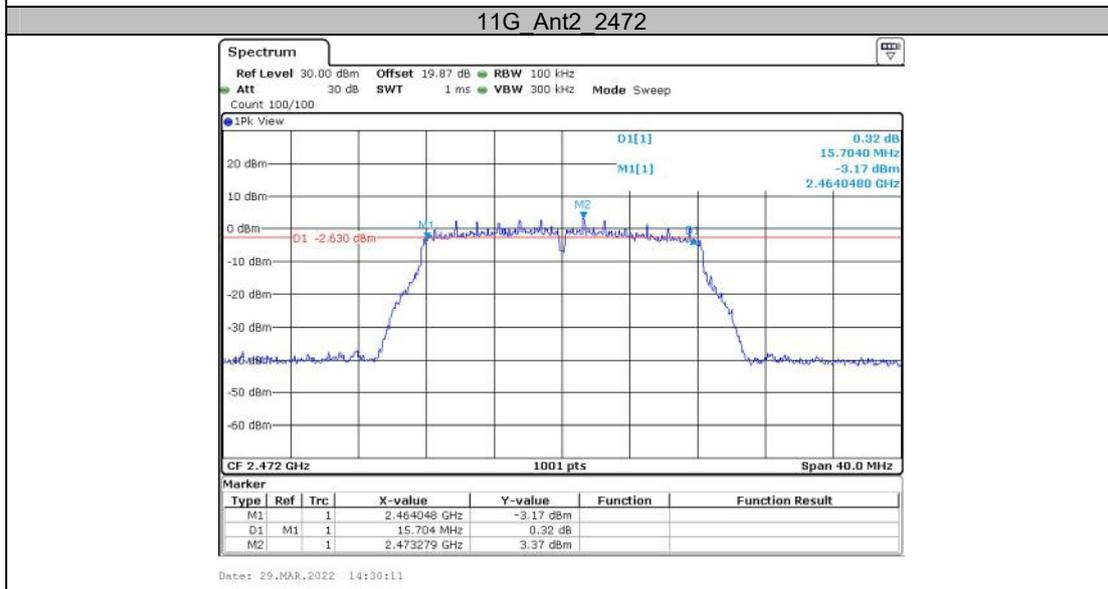
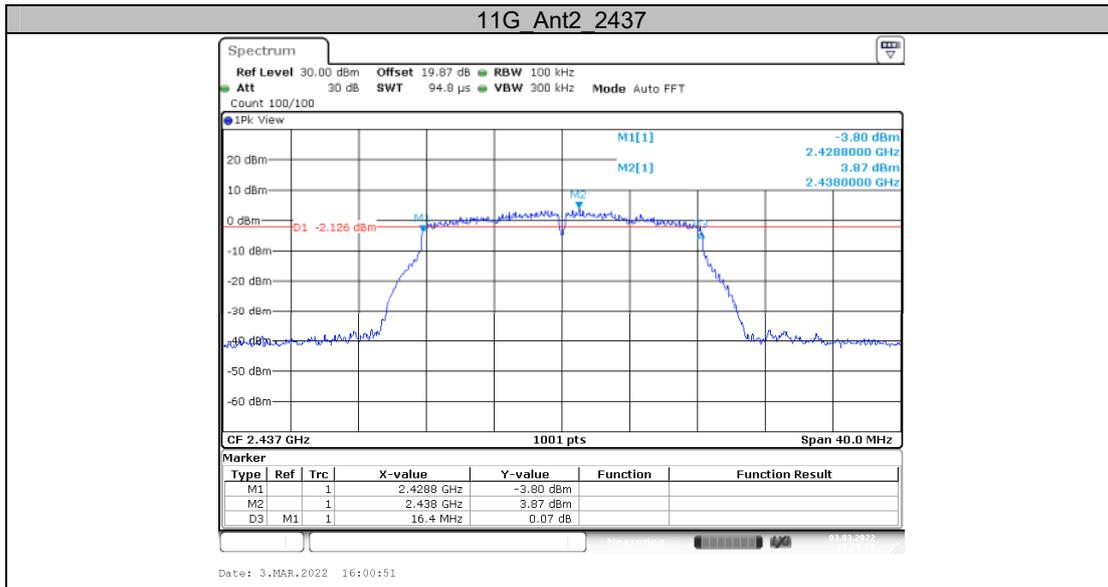




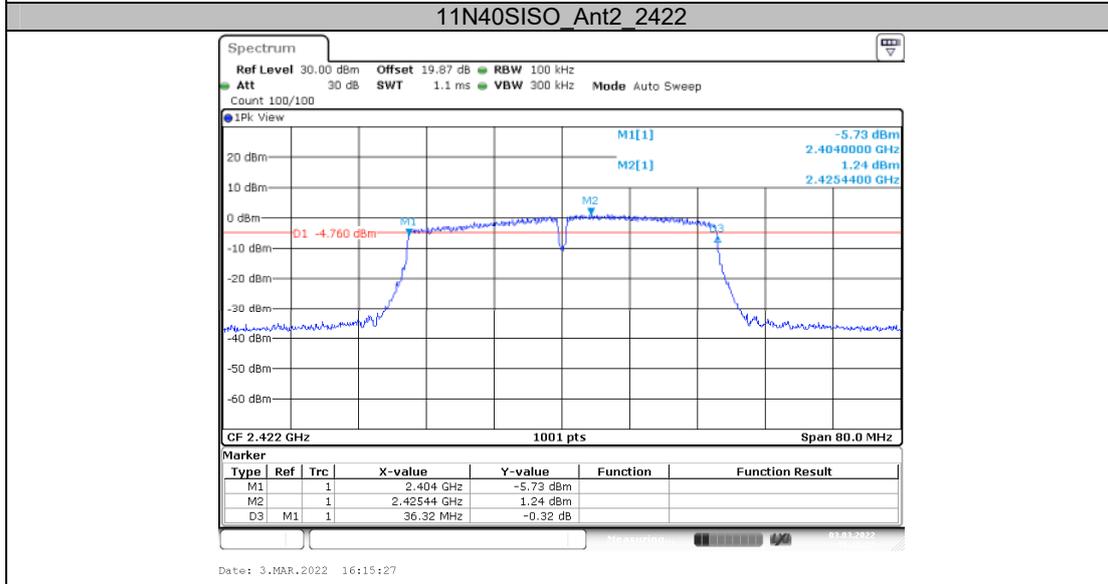
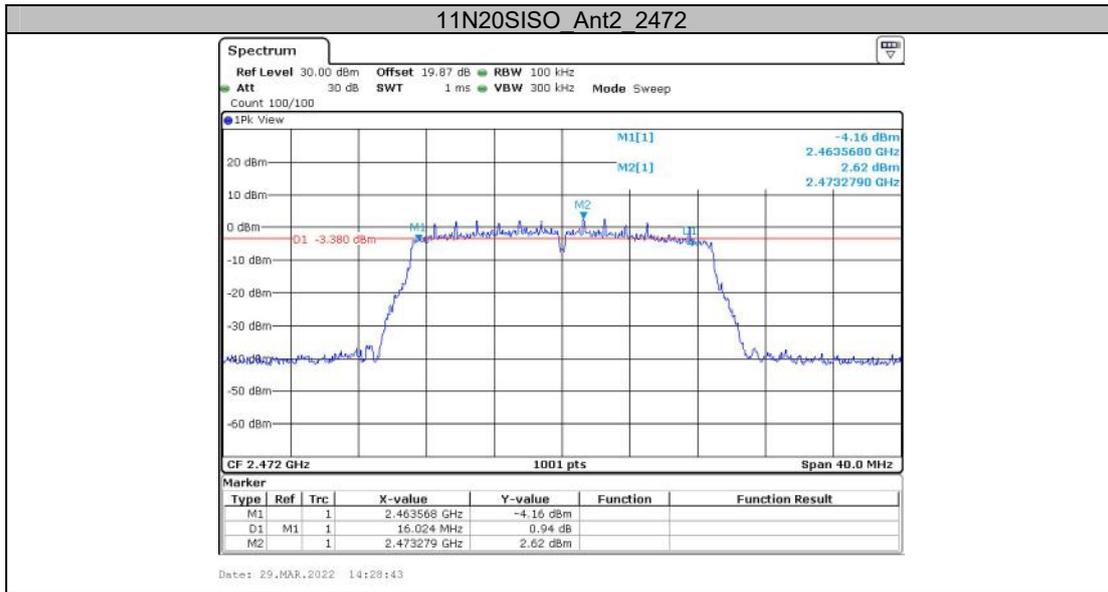


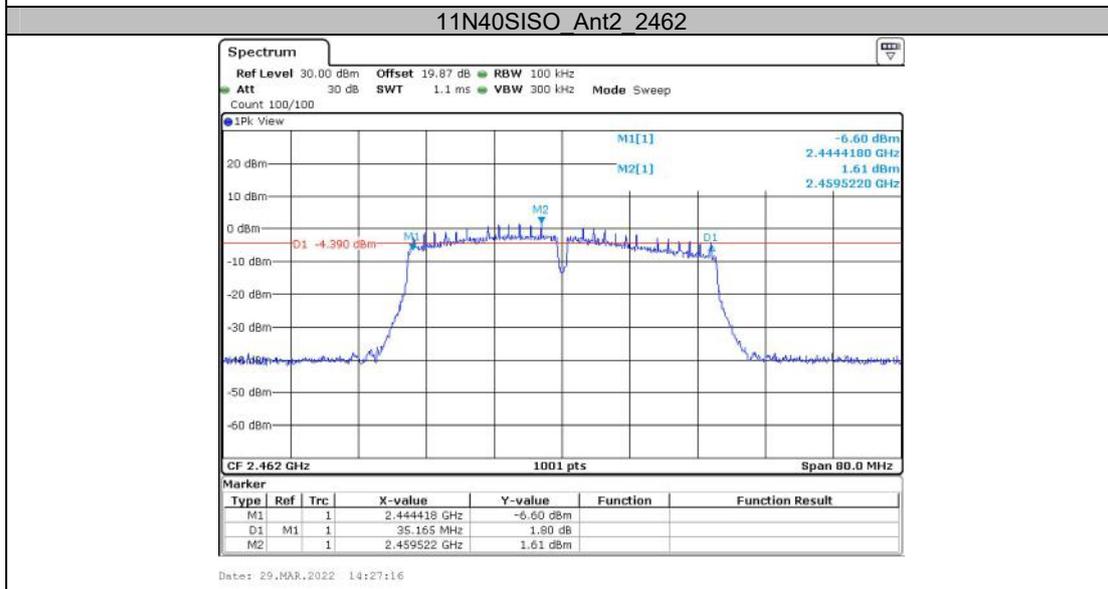
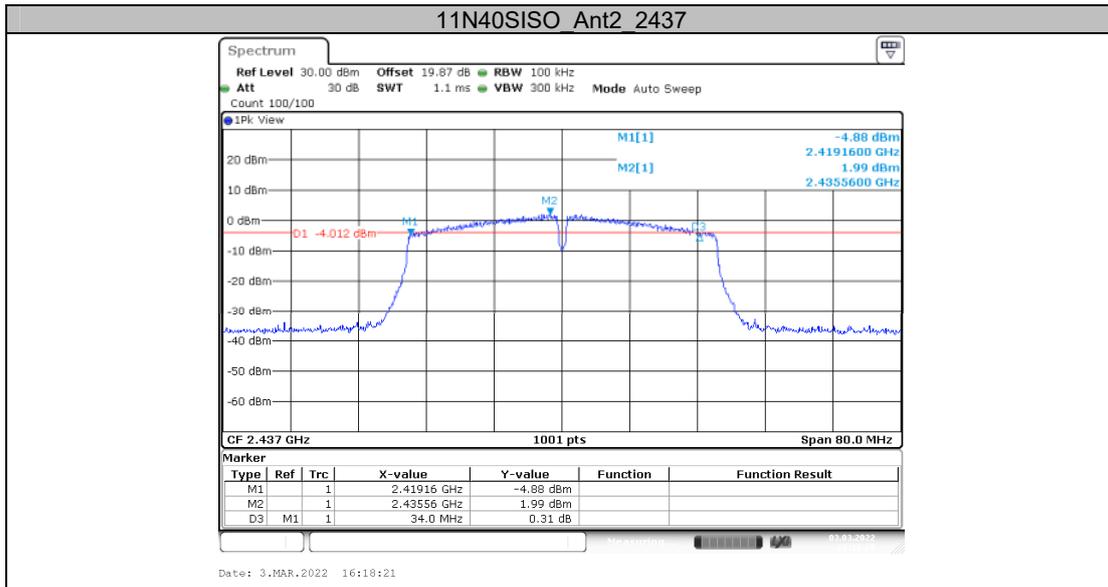










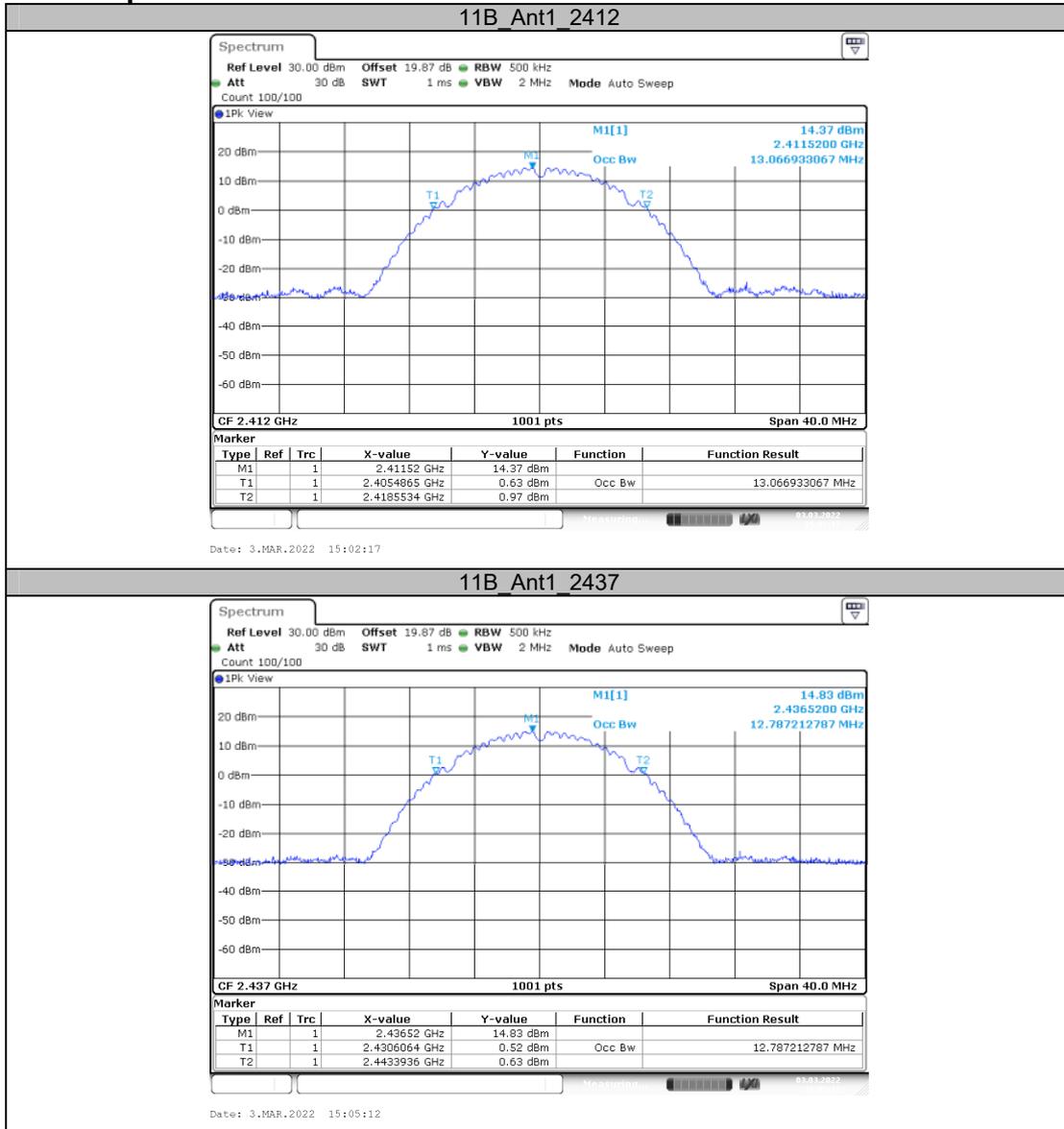


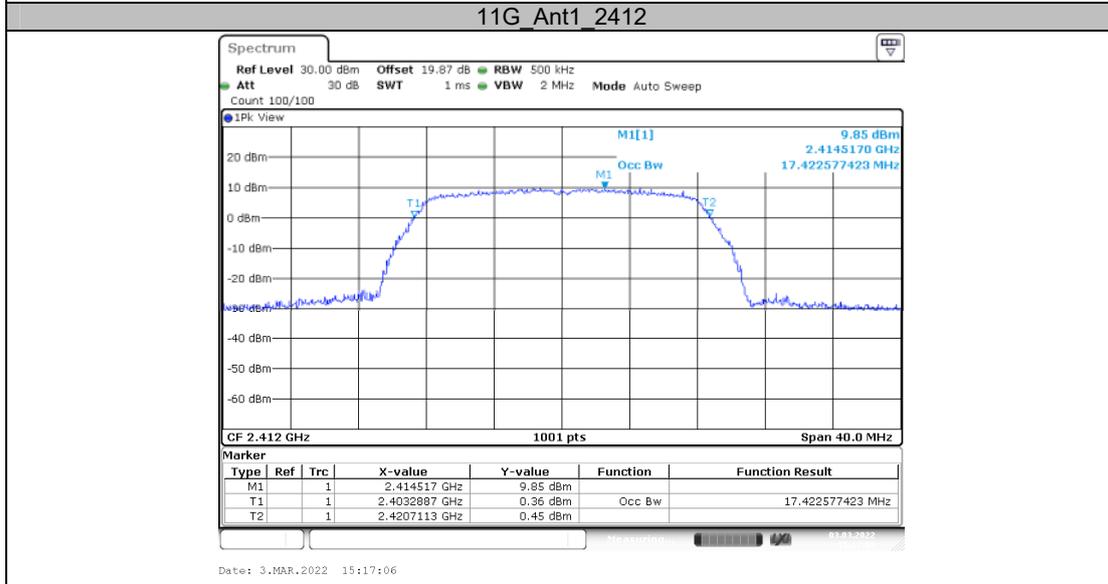
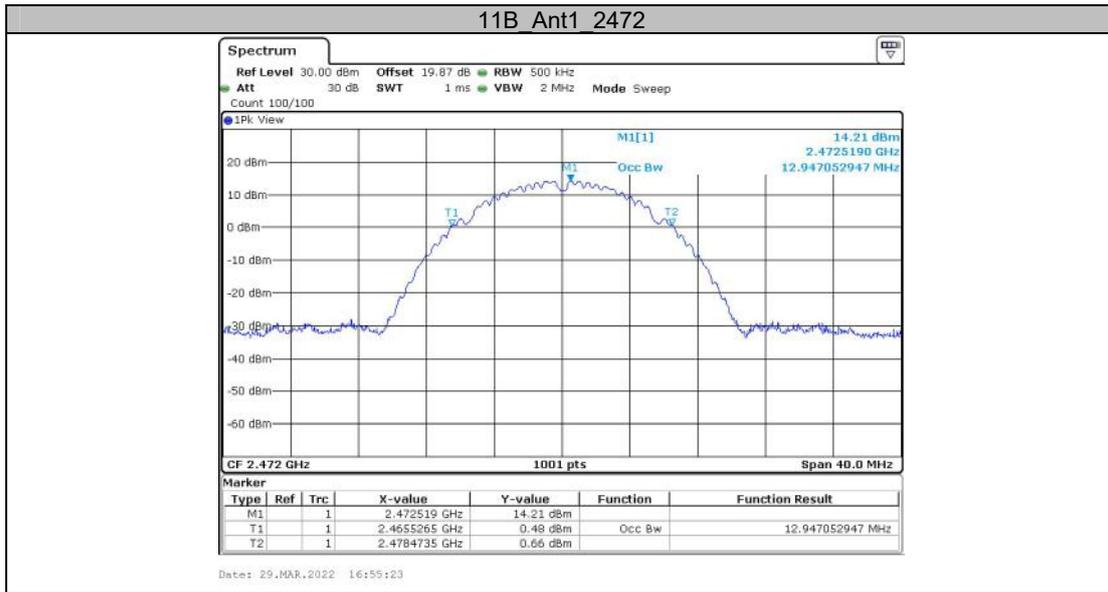
## Appendix B: Occupied Channel Bandwidth Test Result

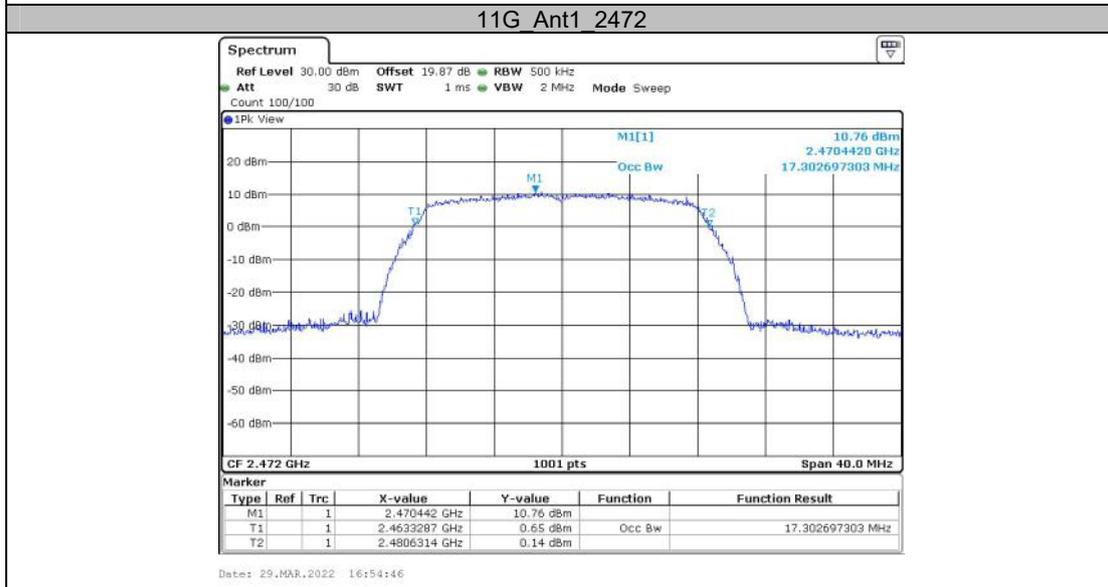
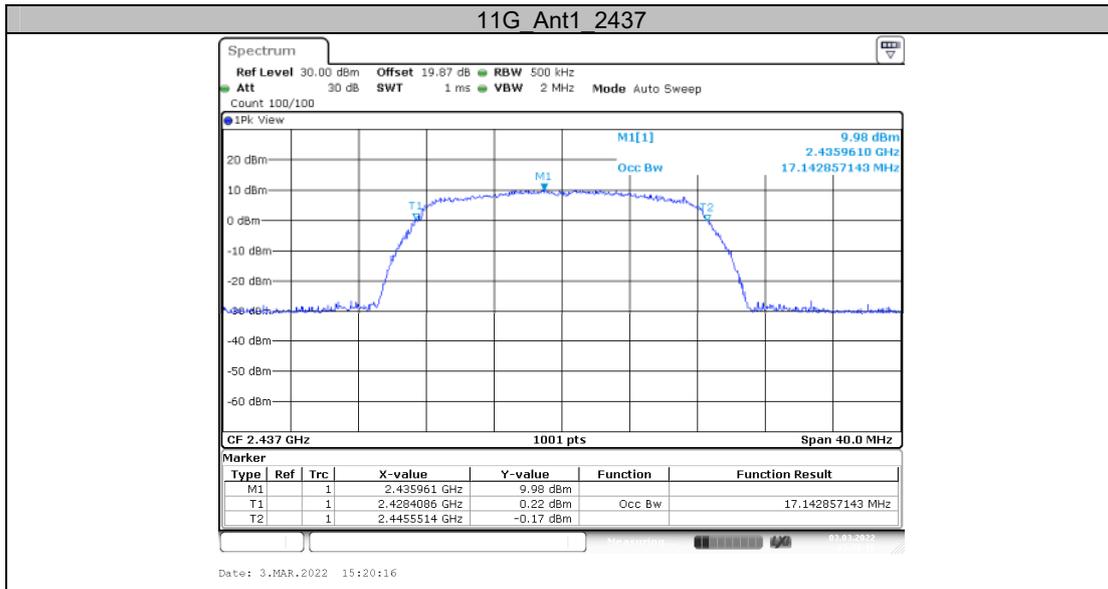
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.067	2405.487	2418.553	---	PASS
		2437	12.787	2430.606	2443.394	---	PASS
		2472	12.947	2465.527	2478.474	---	PASS
11G	Ant1	2412	17.423	2403.289	2420.711	---	PASS
		2437	17.143	2428.409	2445.551	---	PASS
		2472	17.303	2463.329	2480.631	---	PASS
11N20SISO	Ant1	2412	18.262	2402.889	2421.151	---	PASS
		2437	17.982	2428.009	2445.991	---	PASS
		2472	18.142	2462.929	2481.071	---	PASS
11N40SISO	Ant1	2422	36.603	2403.858	2440.462	---	PASS
		2437	36.044	2419.018	2455.062	---	PASS
		2462	36.523	2443.618	2480.142	---	PASS

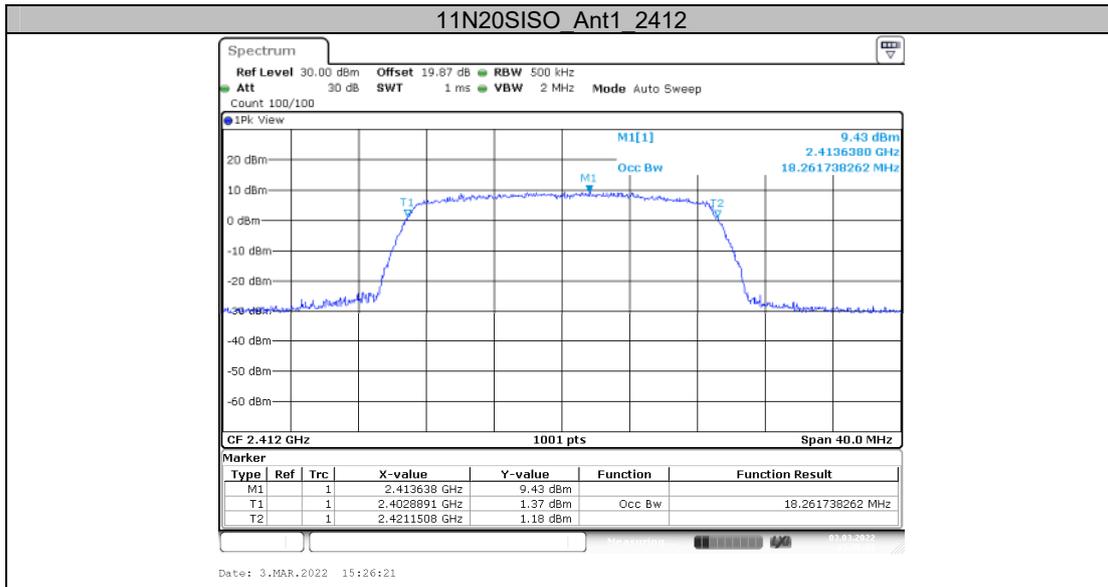
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.027	2405.526	2418.553	---	PASS
		2437	12.787	2430.606	2443.394	---	PASS
		2472	12.987	2465.527	2478.514	---	PASS
11G	Ant2	2412	17.383	2403.329	2420.711	---	PASS
		2437	17.103	2428.449	2445.551	---	PASS
		2472	17.343	2463.329	2480.671	---	PASS
11N20SISO	Ant2	2412	18.302	2402.889	2421.191	---	PASS
		2437	17.982	2428.009	2445.991	---	PASS
		2472	18.182	2462.889	2481.071	---	PASS
11N40SISO	Ant2	2422	36.683	2403.778	2440.462	---	PASS
		2437	36.124	2418.938	2455.062	---	PASS
		2462	36.444	2443.698	2480.142	---	PASS

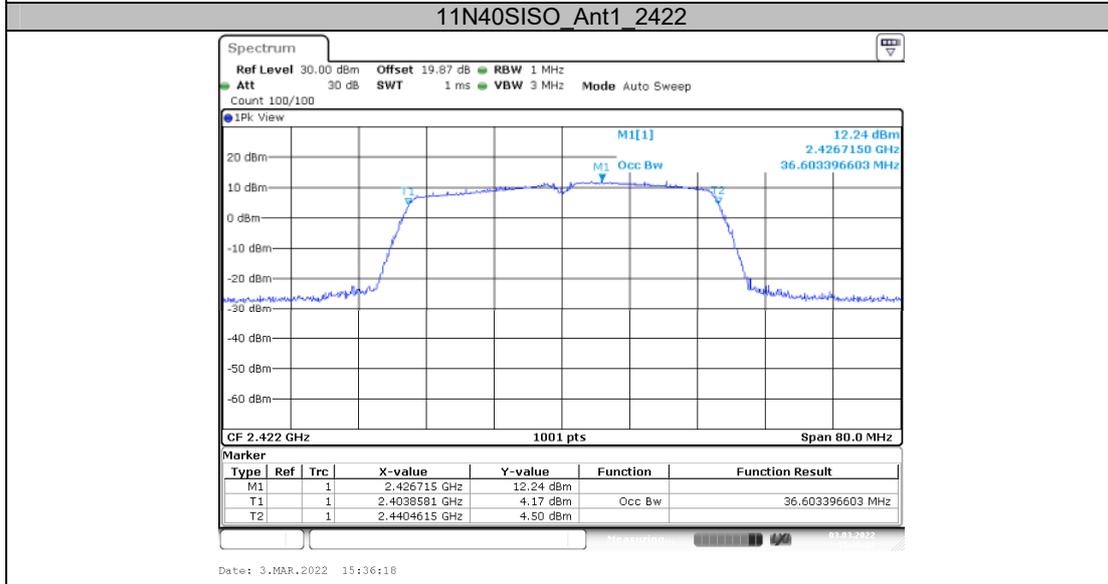
### Test Graphs



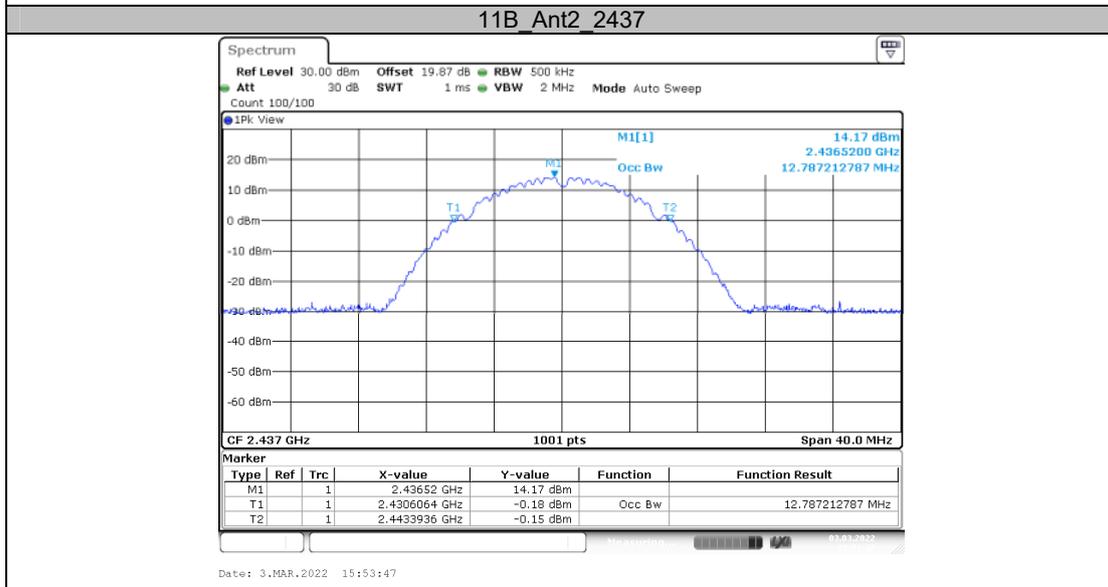
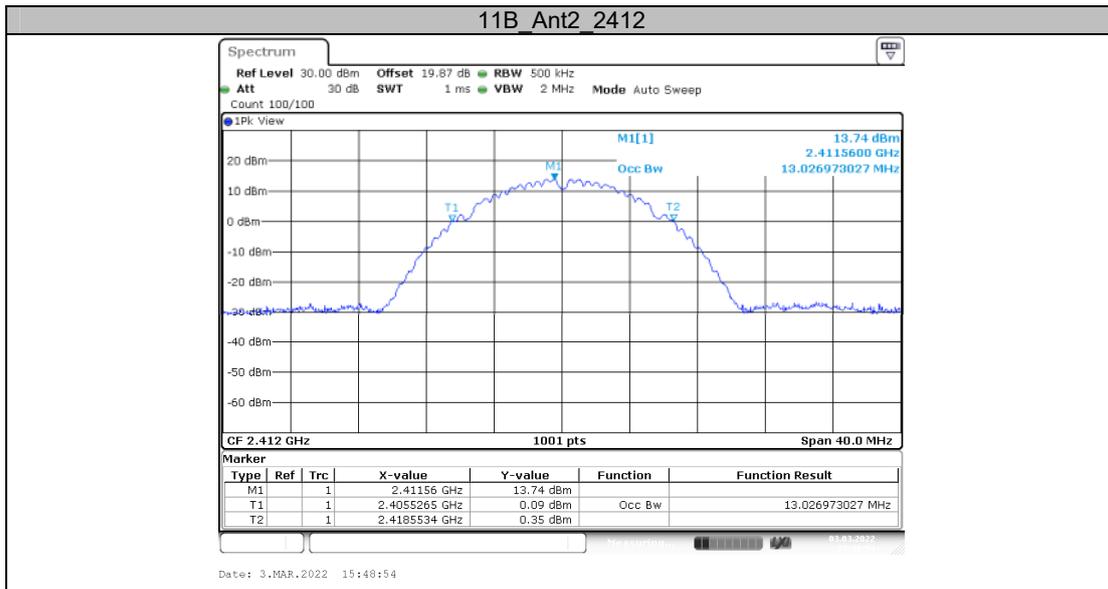


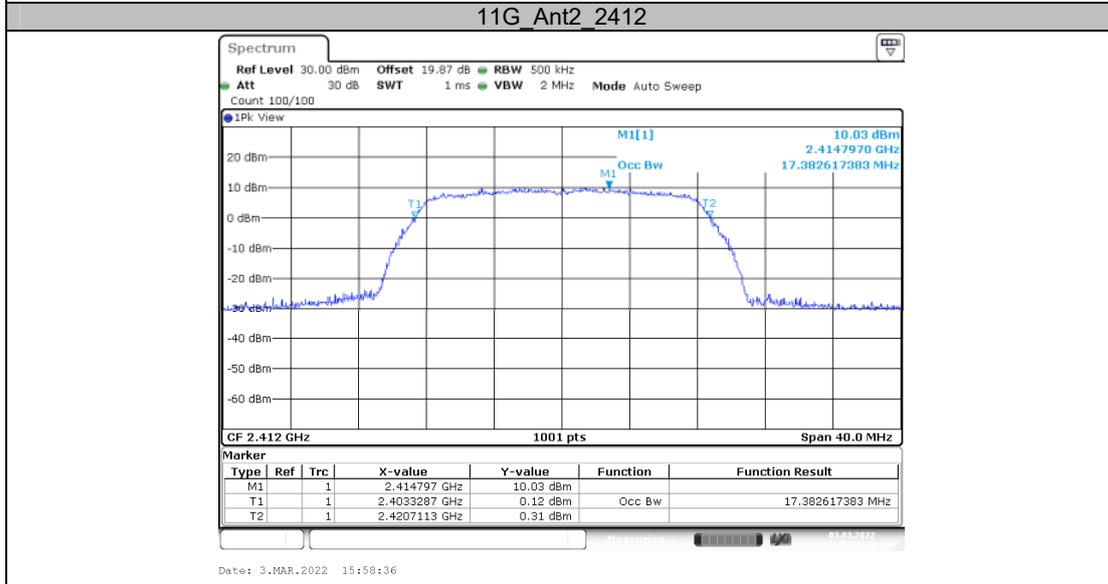
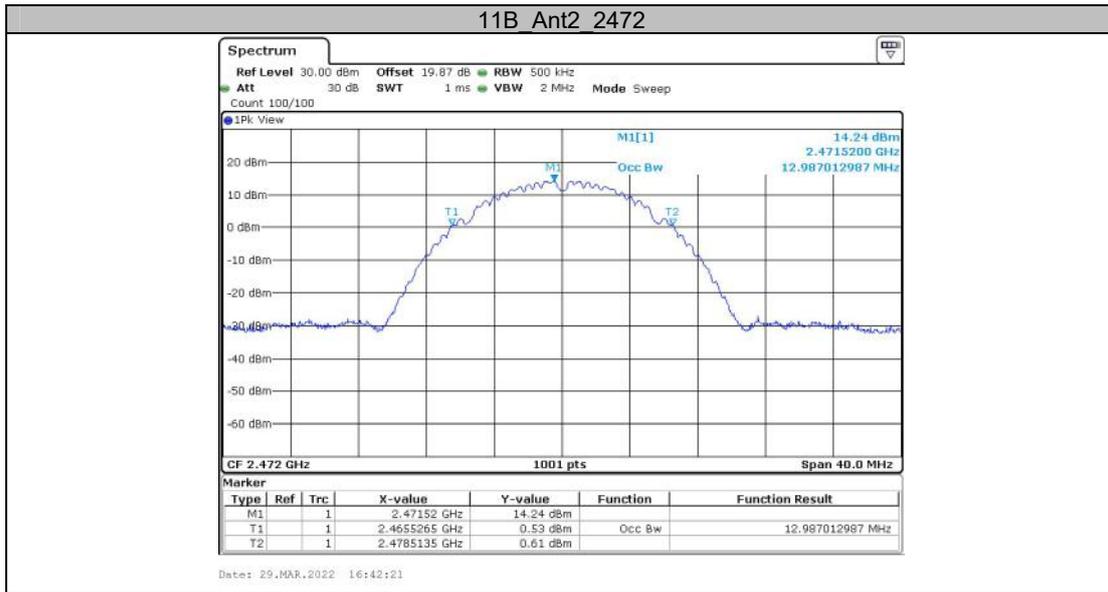


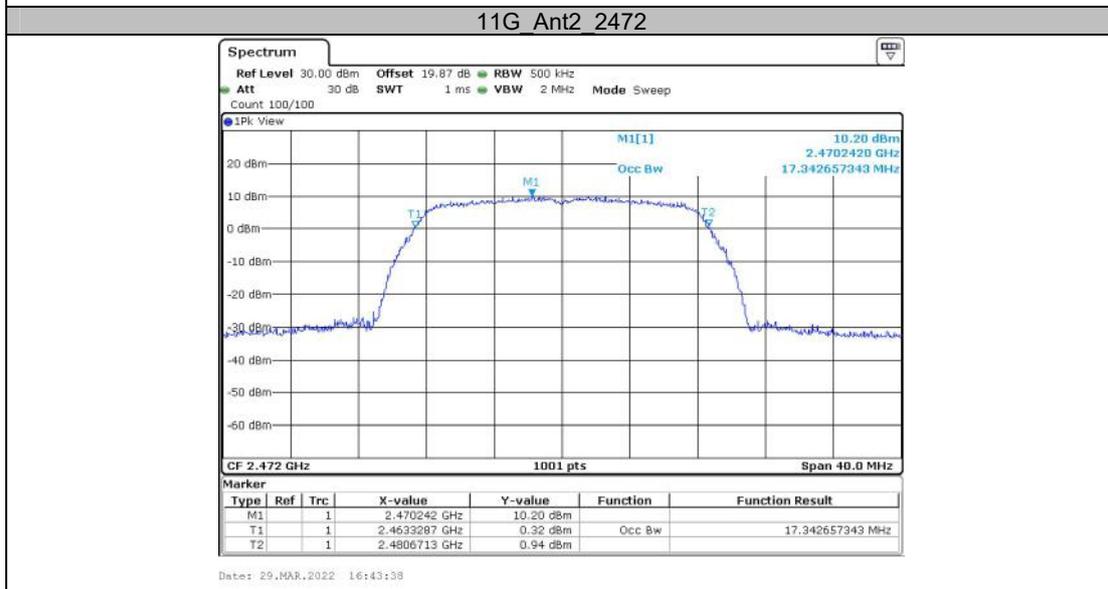
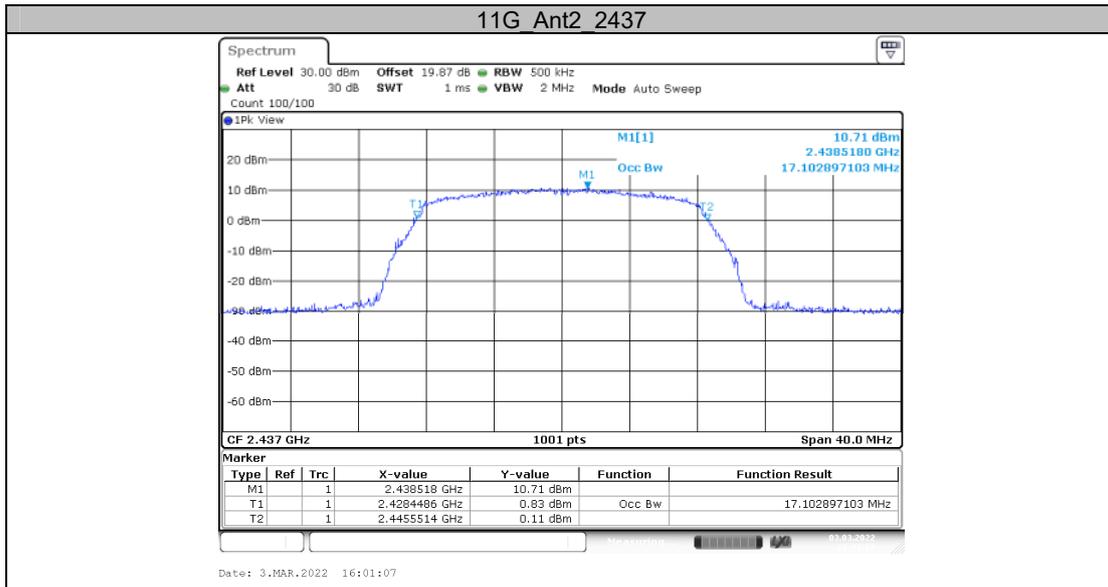




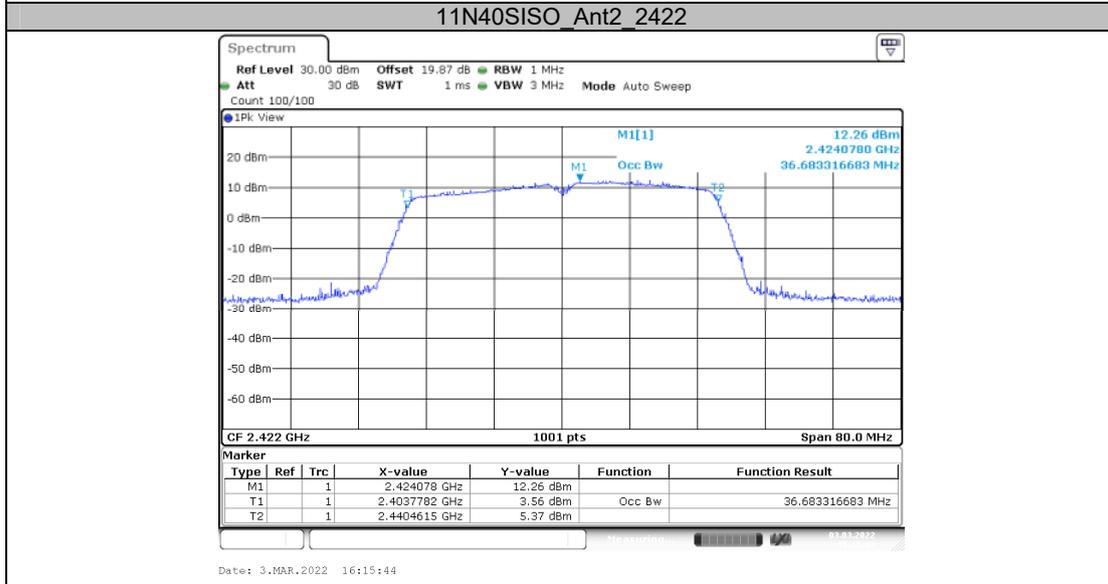


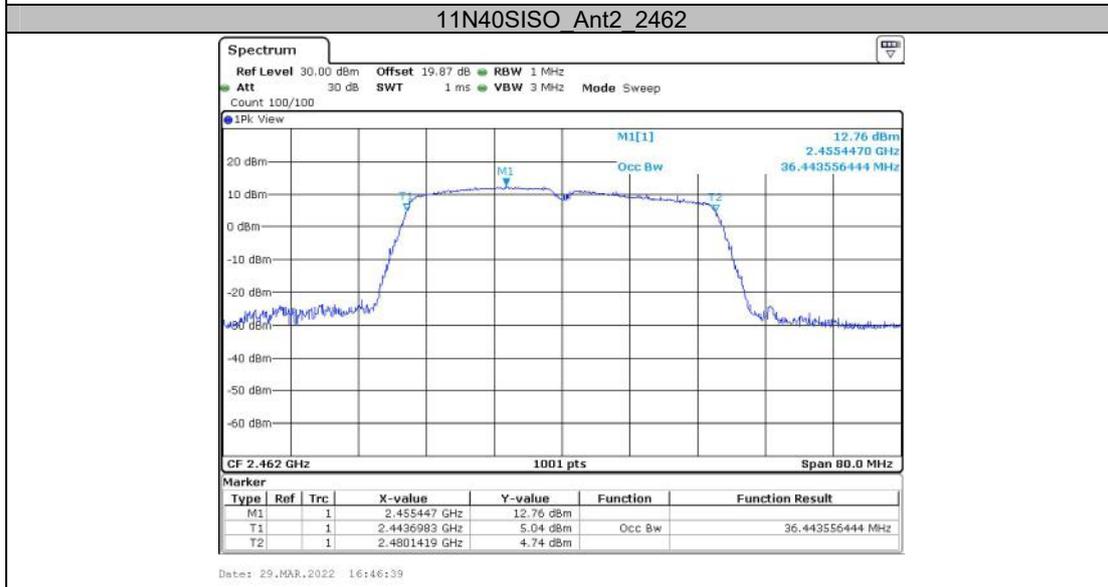












**Appendix C: Maximum conducted output power****Test Result (AV)**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	21.23	<=30	PASS
		2437	21.45	<=30	PASS
		2472	21.49	<=30	PASS
11G	Ant1	2412	14.39	<=30	PASS
		2437	14.10	<=30	PASS
		2472	14.57	<=30	PASS
11N20SISO	Ant1	2412	13.81	<=30	PASS
		2437	14.33	<=30	PASS
		2472	14.46	<=30	PASS
11N40SISO	Ant1	2422	15.53	<=30	PASS
		2437	14.73	<=30	PASS
		2462	14.76	<=30	PASS

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	2412	20.78	<=30	PASS
		2437	21.07	<=30	PASS
		2472	21.26	<=30	PASS
11G	Ant2	2412	14.15	<=30	PASS
		2437	14.59	<=30	PASS
		2472	14.60	<=30	PASS
11N20SISO	Ant2	2412	14.06	<=30	PASS
		2437	14.15	<=30	PASS
		2472	14.52	<=30	PASS
11N40SISO	Ant2	2422	15.63	<=30	PASS
		2437	15.73	<=30	PASS
		2462	15.71	<=30	PASS

**Test Result (PK)**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	23.27	<=30	PASS
		2437	23.44	<=30	PASS
		2472	23.44	<=30	PASS
11G	Ant1	2412	16.30	<=30	PASS
		2437	16.15	<=30	PASS
		2472	16.57	<=30	PASS
11N20SISO	Ant1	2412	16.87	<=30	PASS
		2437	16.33	<=30	PASS
		2472	16.44	<=30	PASS
11N40SISO	Ant1	2422	17.56	<=30	PASS
		2437	17.75	<=30	PASS
		2462	17.74	<=30	PASS

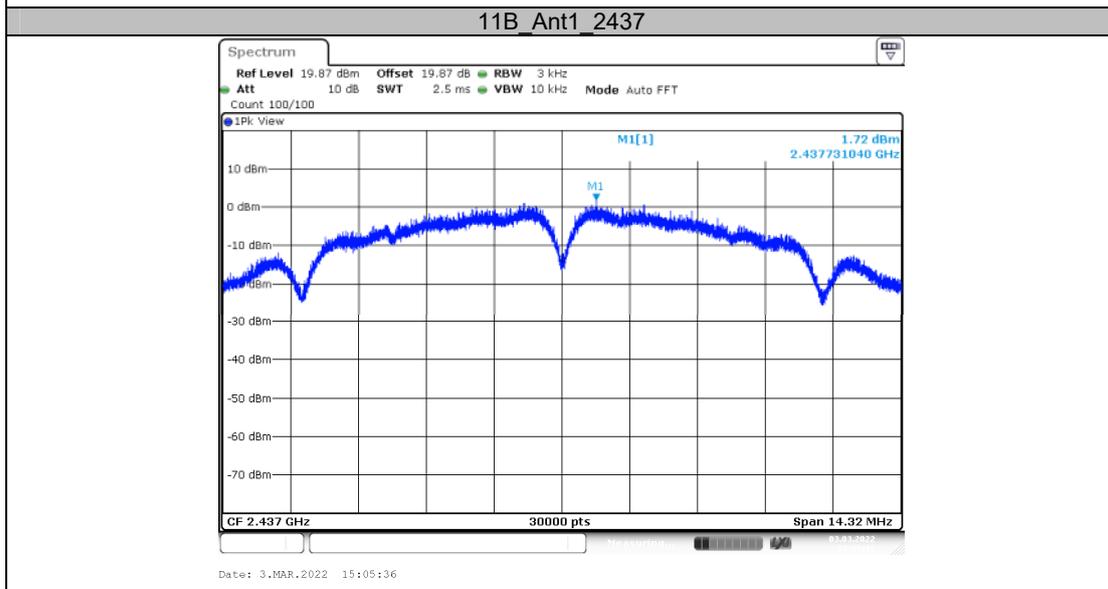
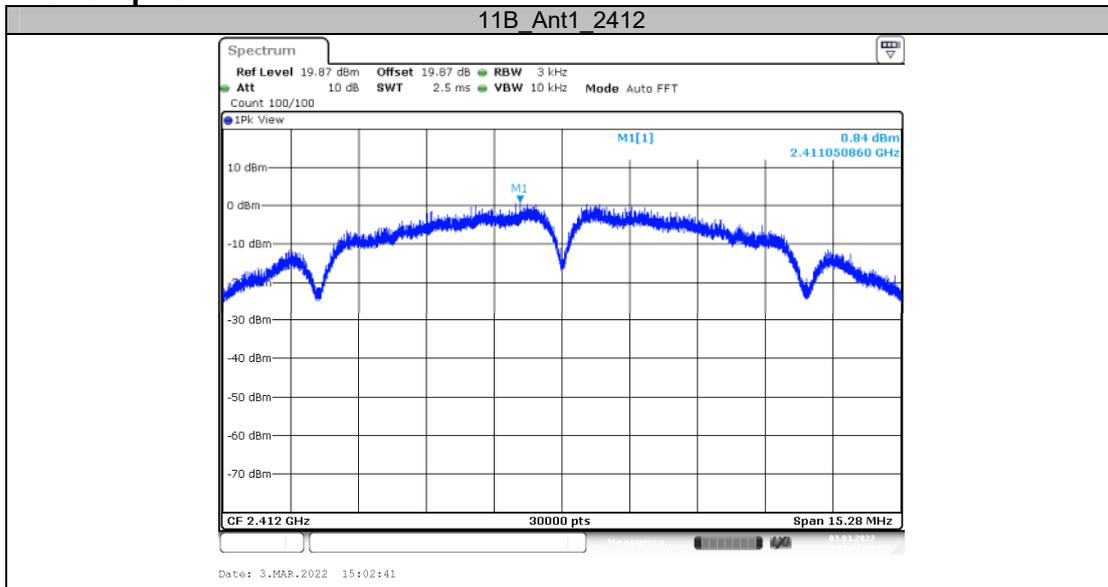
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	2412	22.58	<=30	PASS
		2437	23.57	<=30	PASS
		2472	23.56	<=30	PASS
11G	Ant2	2412	16.17	<=30	PASS
		2437	16.57	<=30	PASS
		2472	16.70	<=30	PASS
11N20SISO	Ant2	2412	16.56	<=30	PASS
		2437	16.55	<=30	PASS
		2472	16.82	<=30	PASS
11N40SISO	Ant2	2422	17.93	<=30	PASS
		2437	17.79	<=30	PASS
		2462	17.78	<=30	PASS

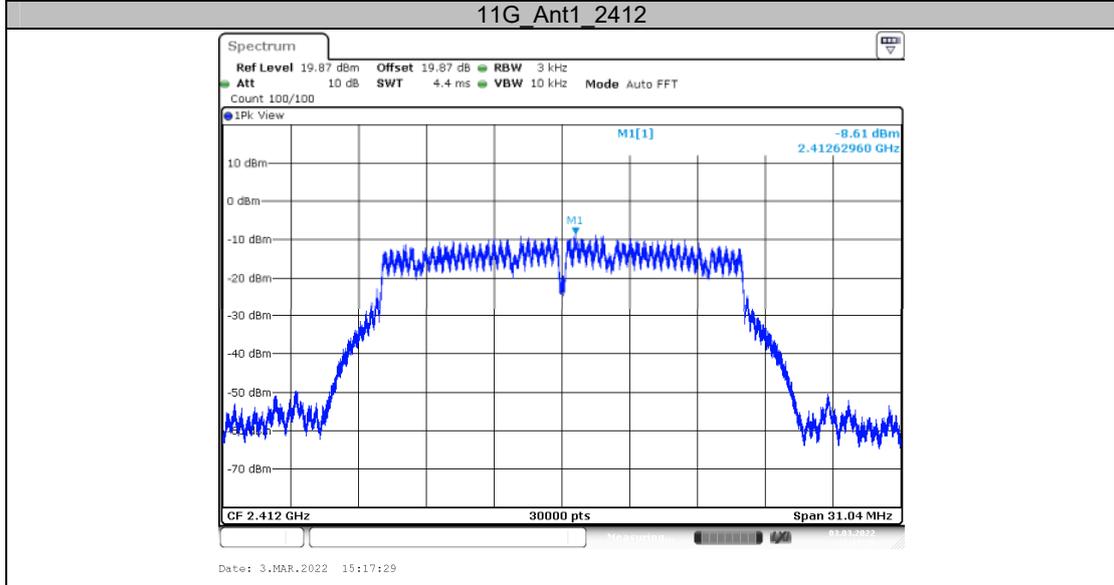
**Appendix D: Maximum power spectral density****Test Result**

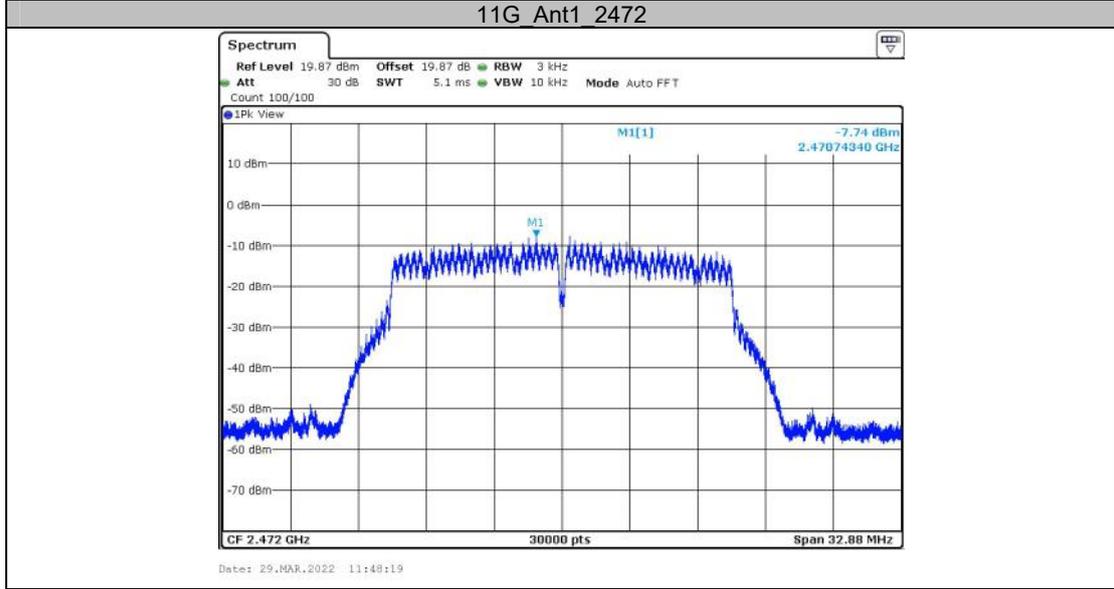
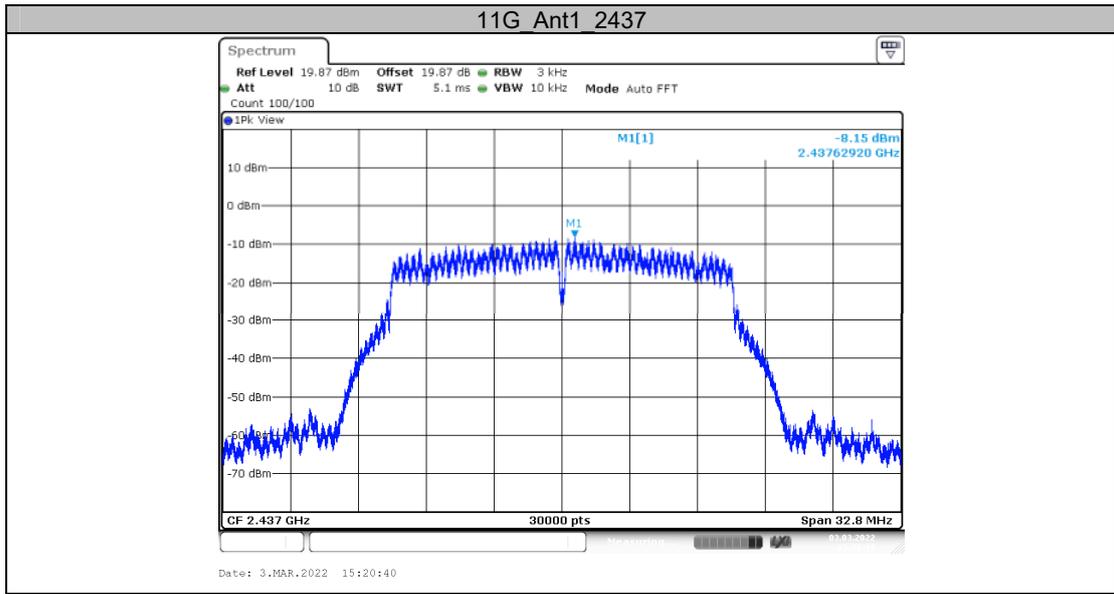
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	0.84	<=8	PASS
		2437	1.72	<=8	PASS
		2472	1.07	<=8	PASS
11G	Ant1	2412	-8.61	<=8	PASS
		2437	-8.15	<=8	PASS
		2472	-7.74	<=8	PASS
11N20SISO	Ant1	2412	-9.56	<=8	PASS
		2437	-8.2	<=8	PASS
		2472	-8.60	<=8	PASS
11N40SISO	Ant1	2422	-10.65	<=8	PASS
		2437	-10.58	<=8	PASS
		2462	-10.60	<=8	PASS

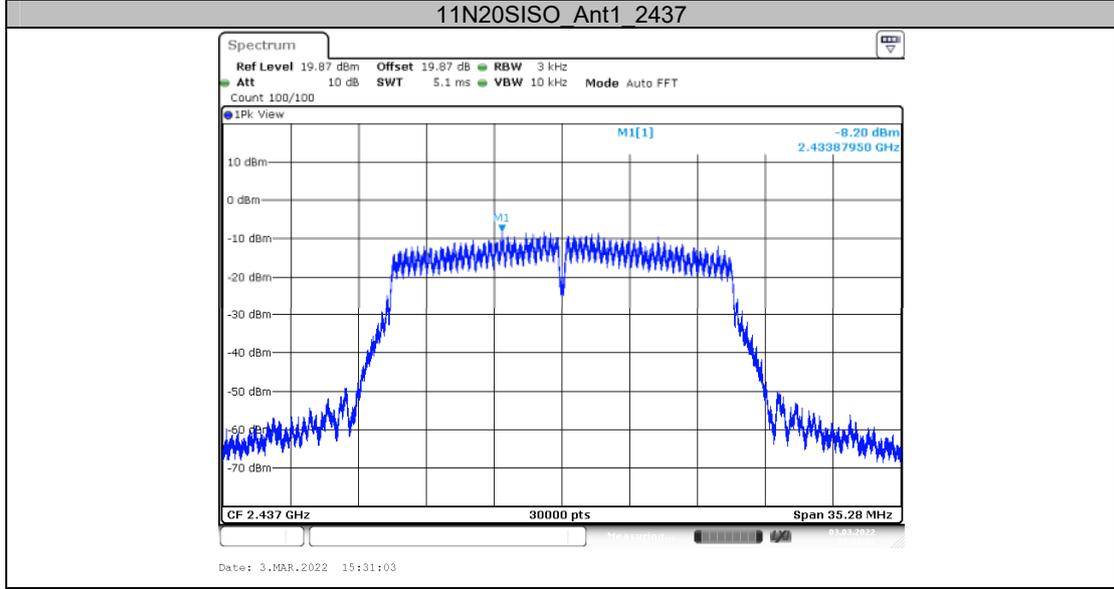
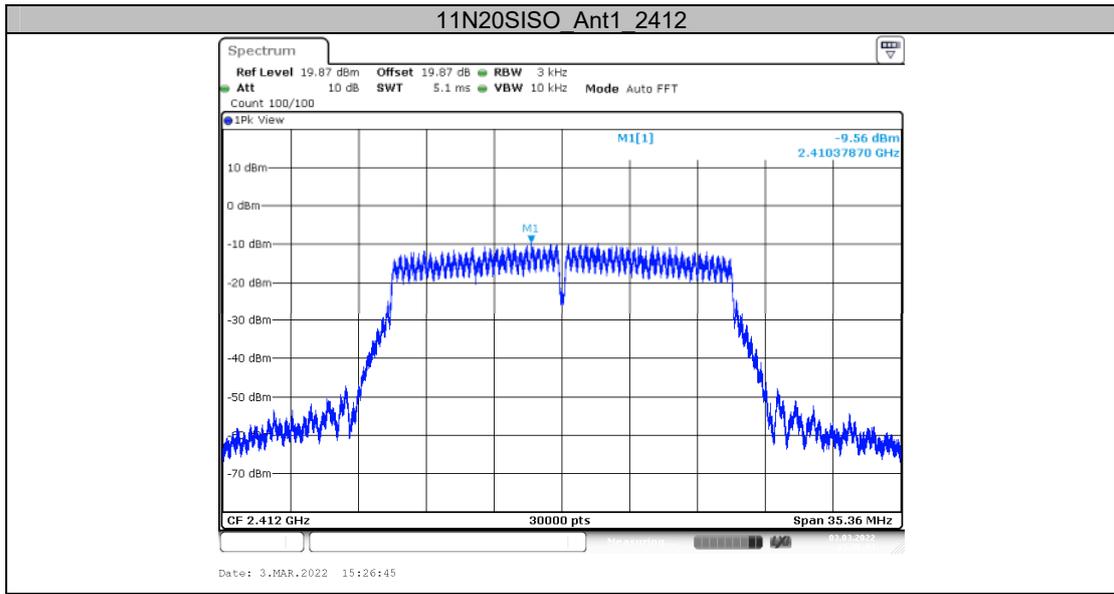
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	0.03	<=8	PASS
		2437	0.45	<=8	PASS
		2472	0.72	<=8	PASS
11G	Ant2	2412	-8.66	<=8	PASS
		2437	-8.14	<=8	PASS
		2472	-8.22	<=8	PASS
11N20SISO	Ant2	2412	-9.23	<=8	PASS
		2437	-8.59	<=8	PASS
		2472	-7.81	<=8	PASS
11N40SISO	Ant2	2422	-10.28	<=8	PASS
		2437	-8.6	<=8	PASS
		2462	-10.36	<=8	PASS

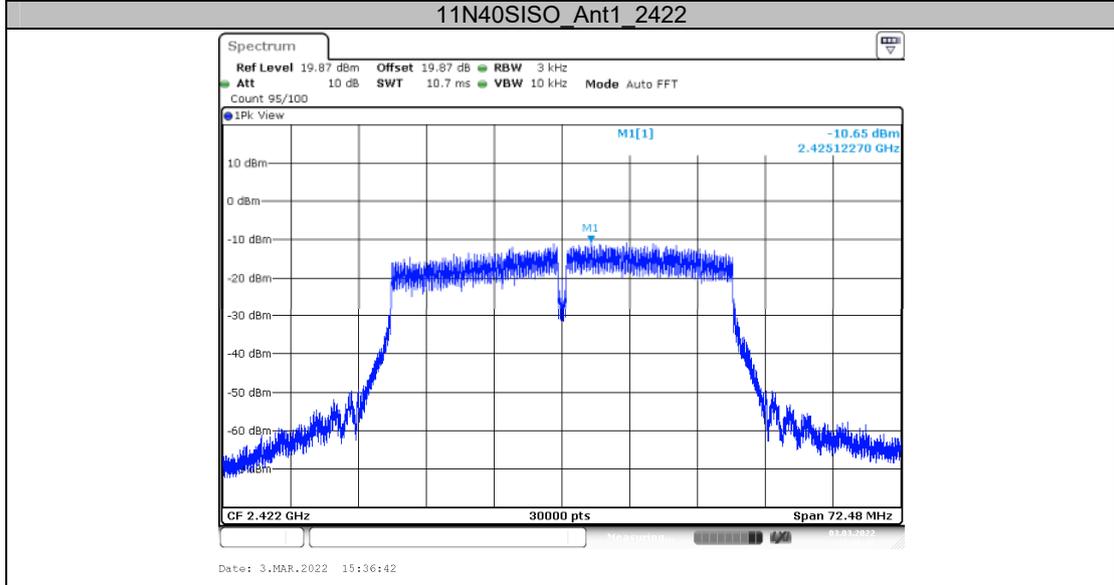
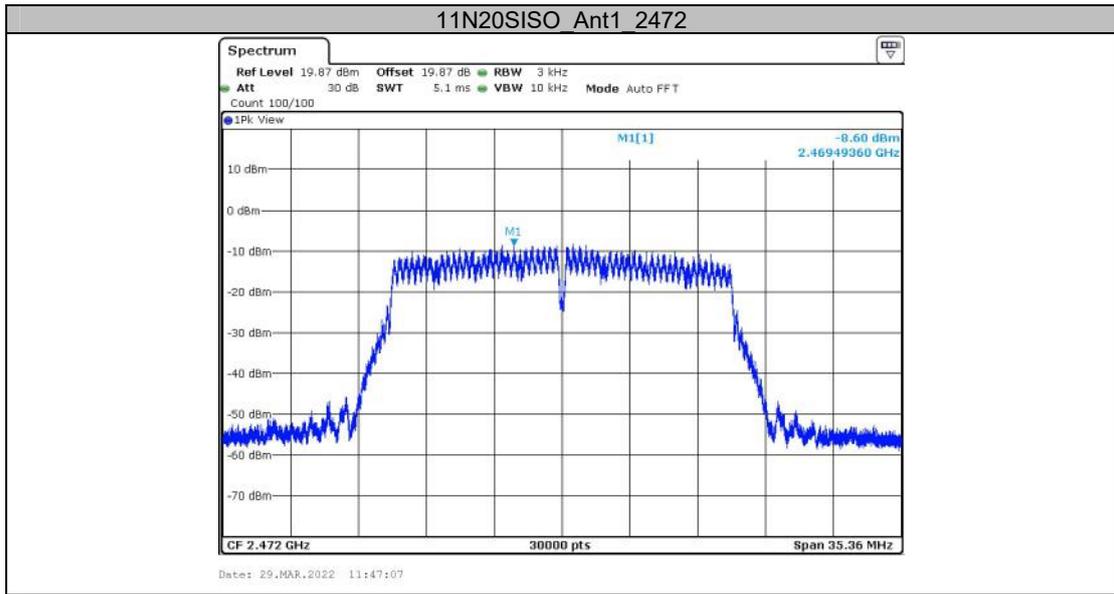
### Test Graphs

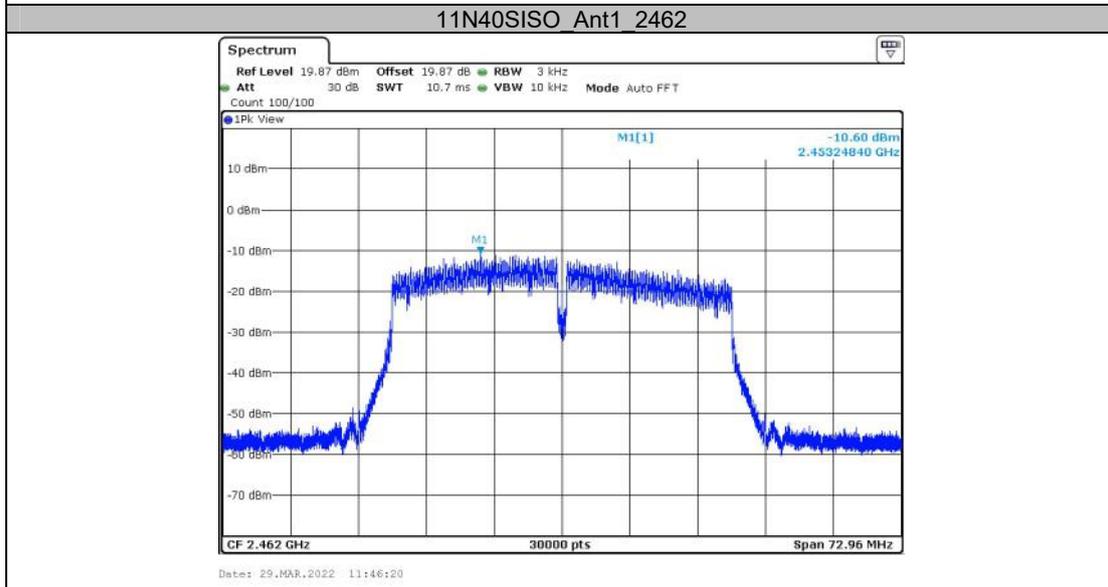
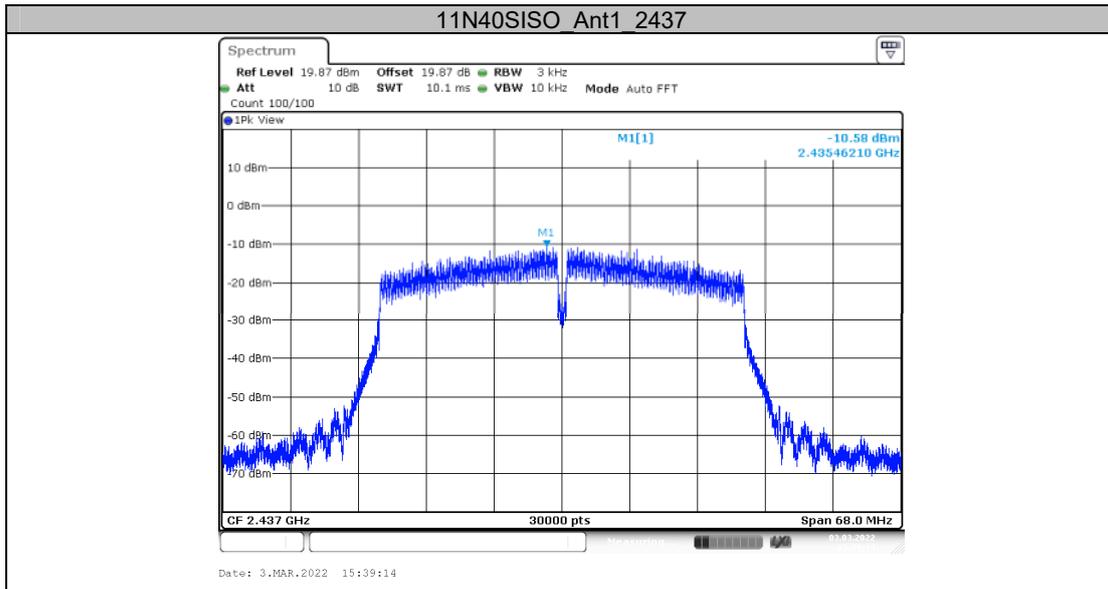


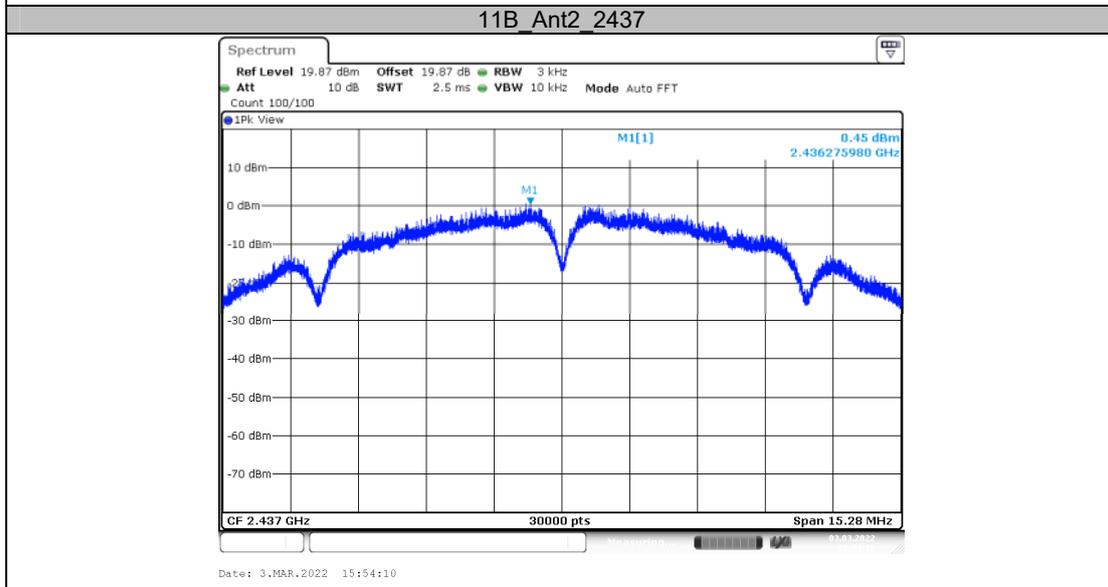
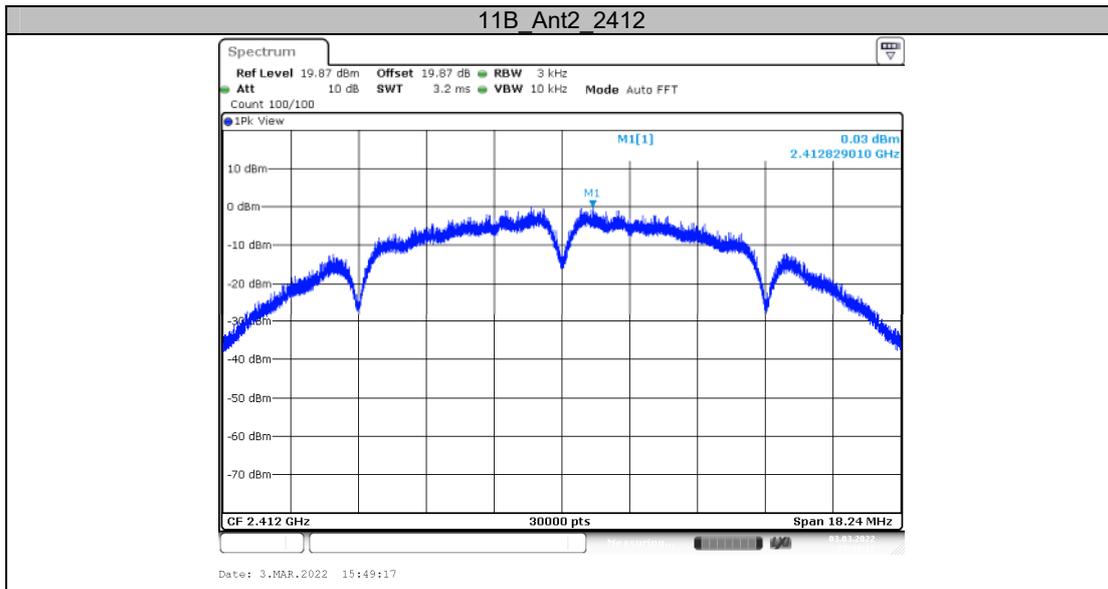


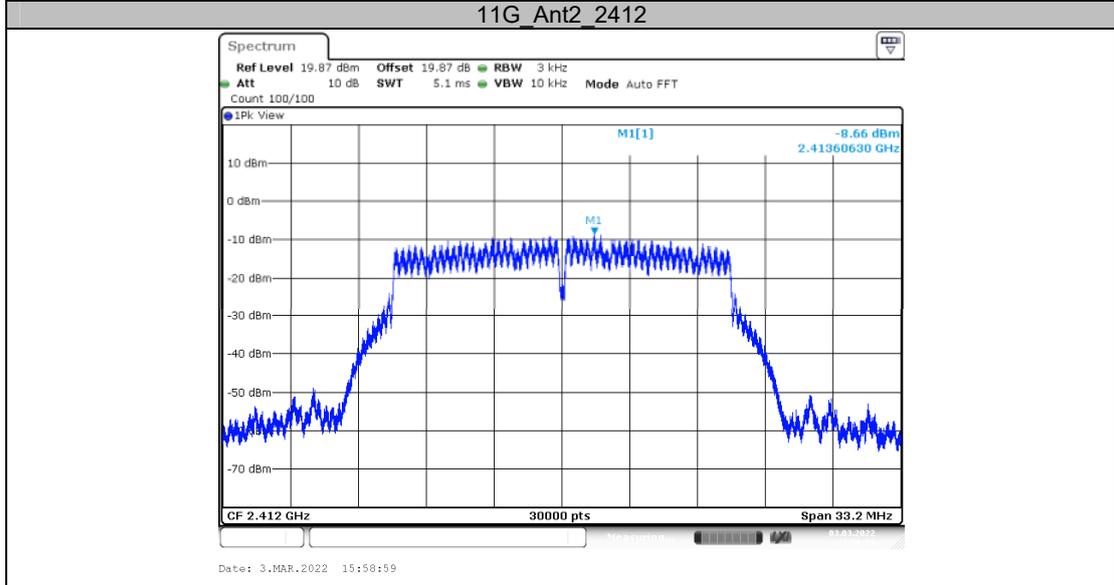
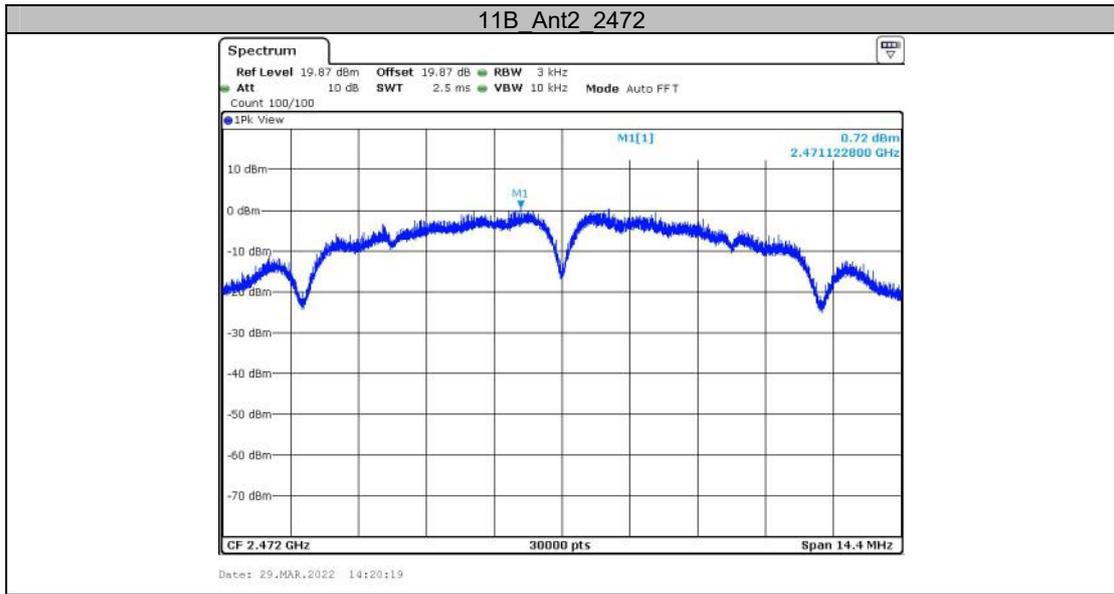


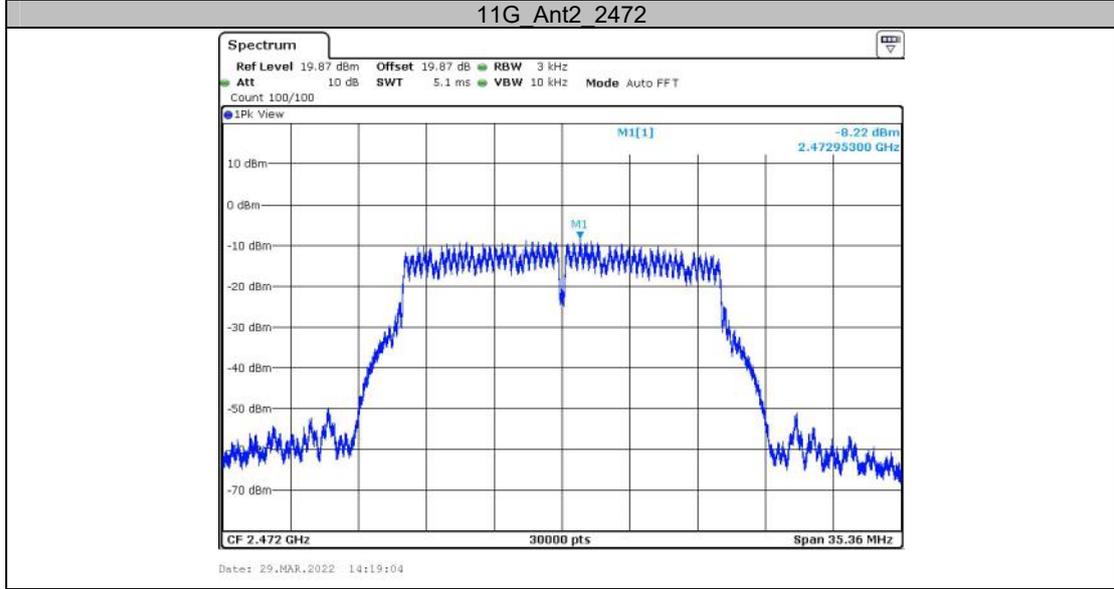
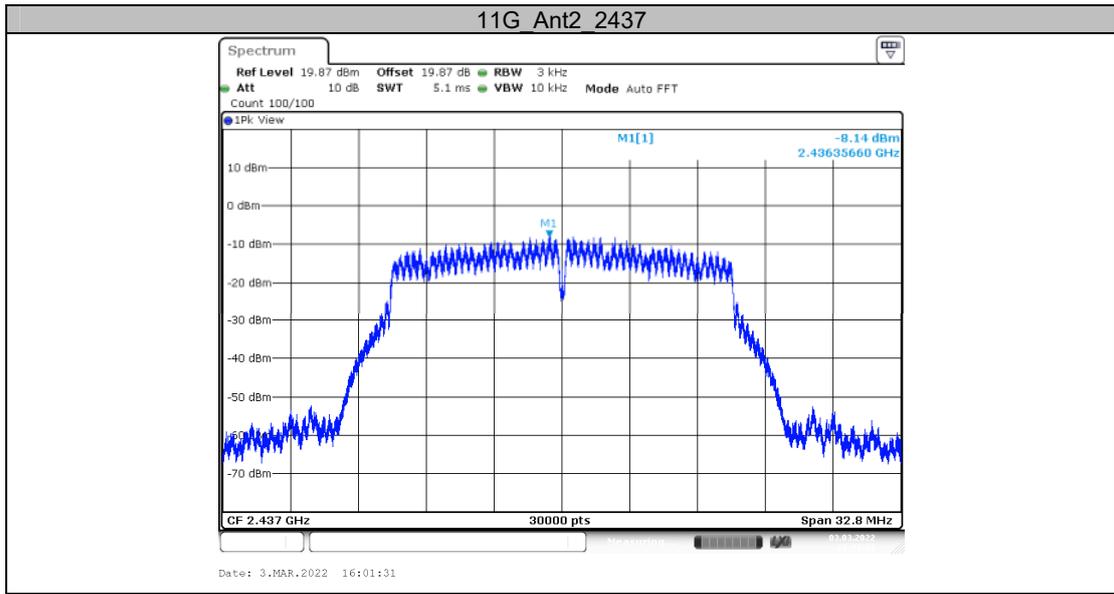


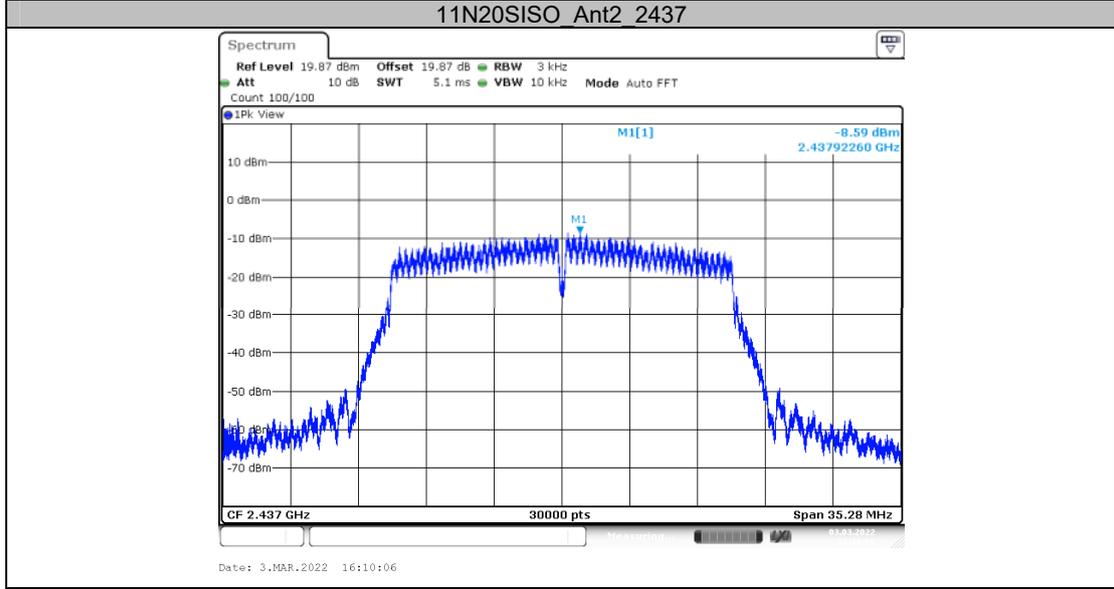
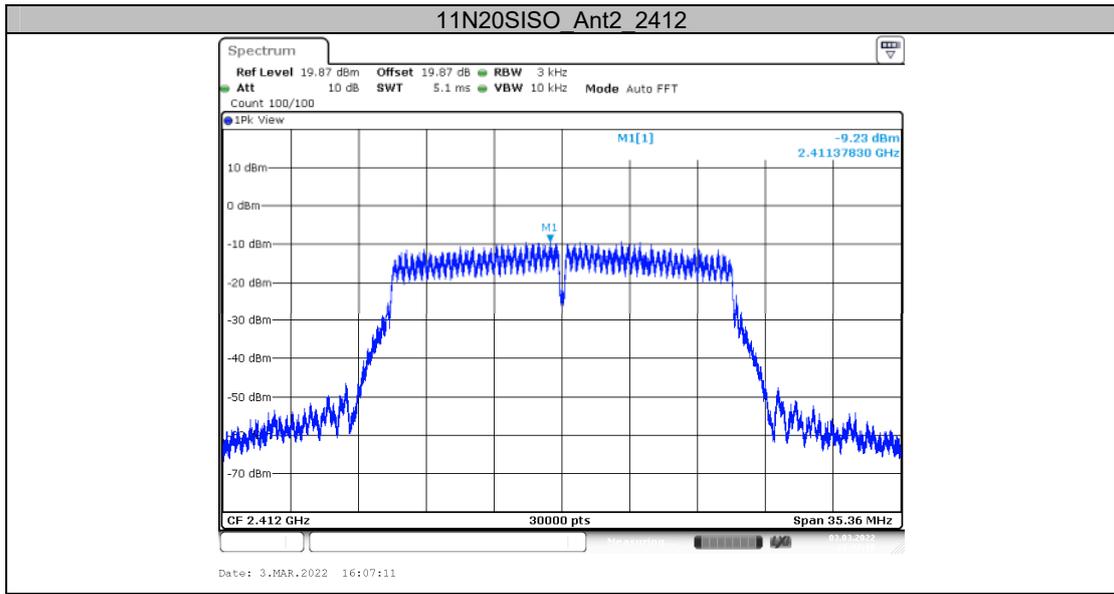


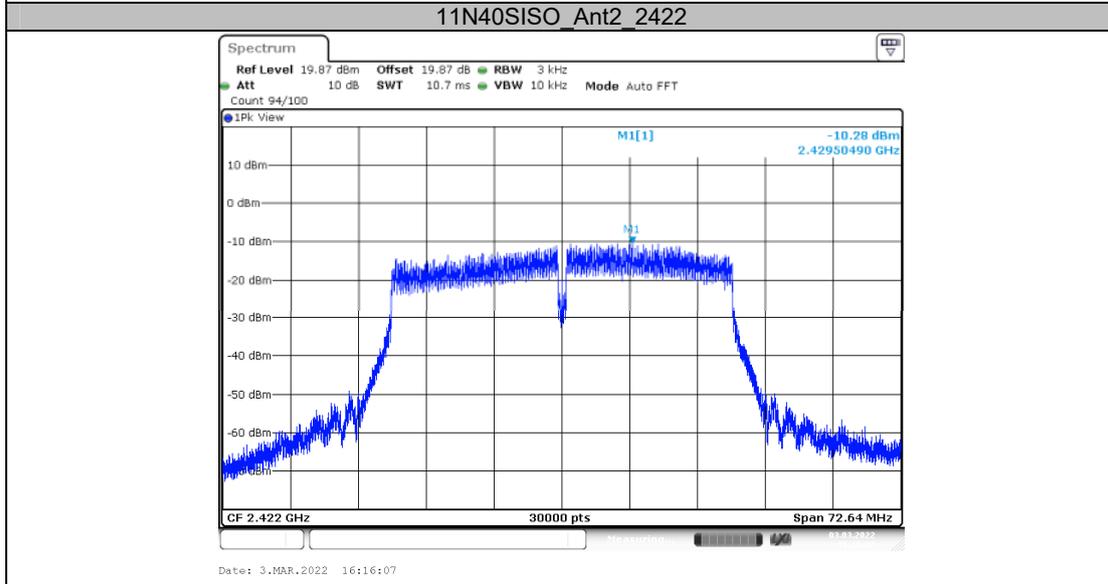
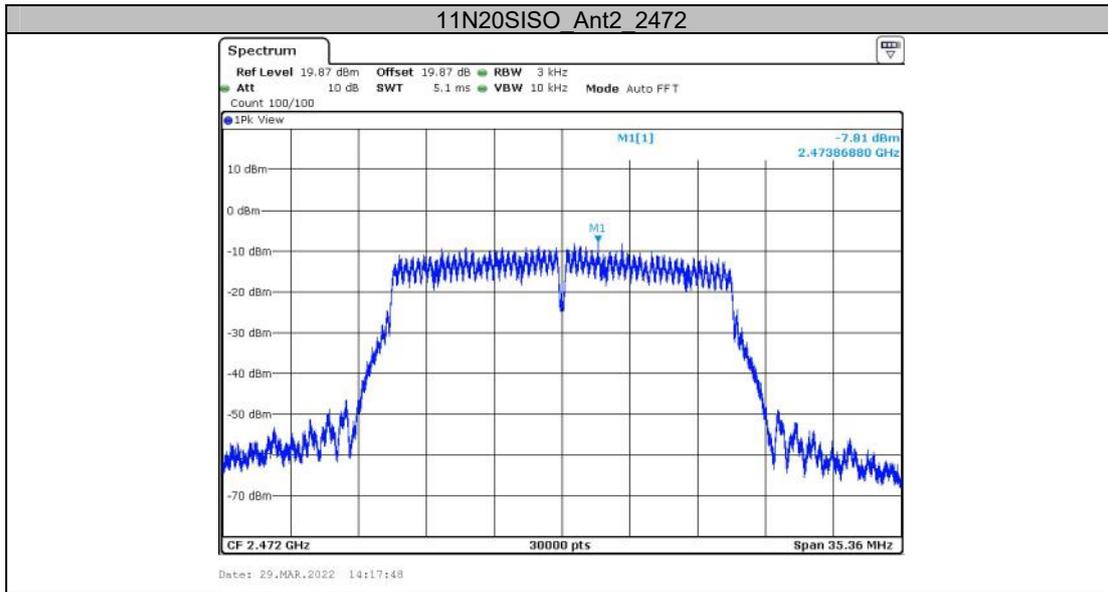


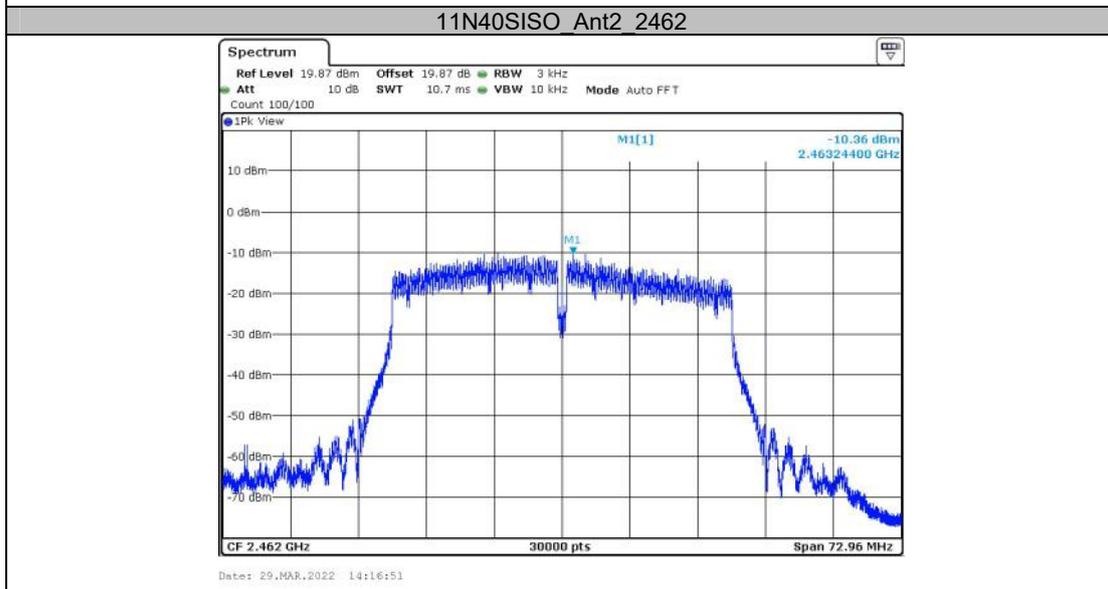
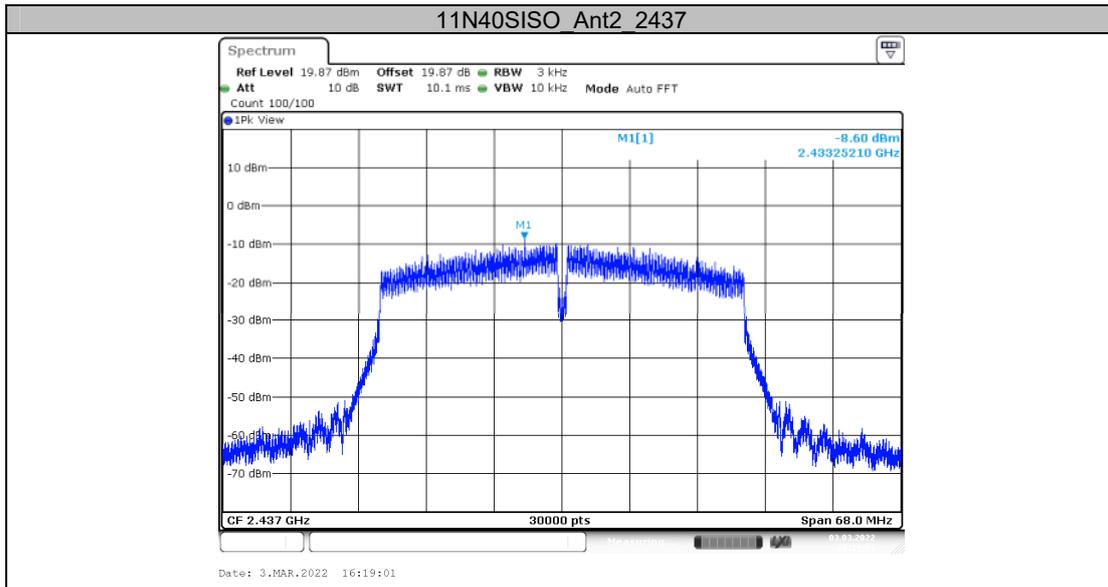






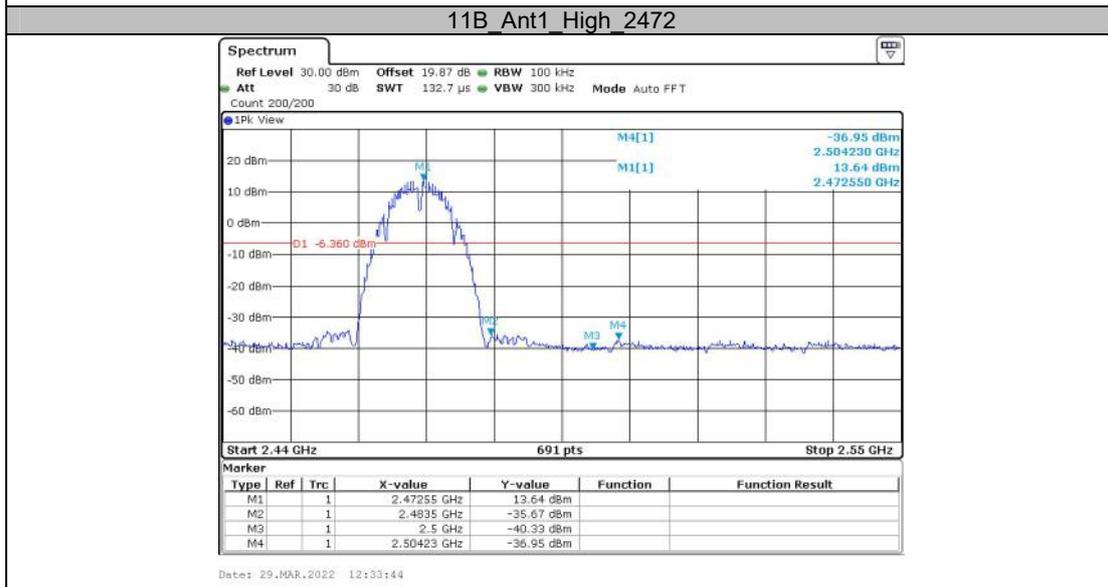
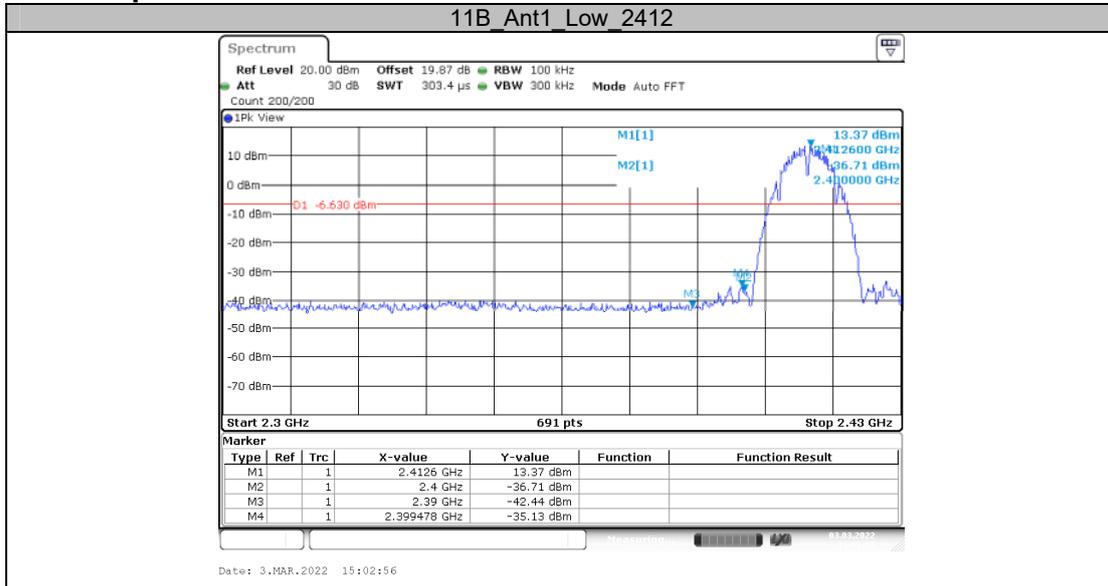


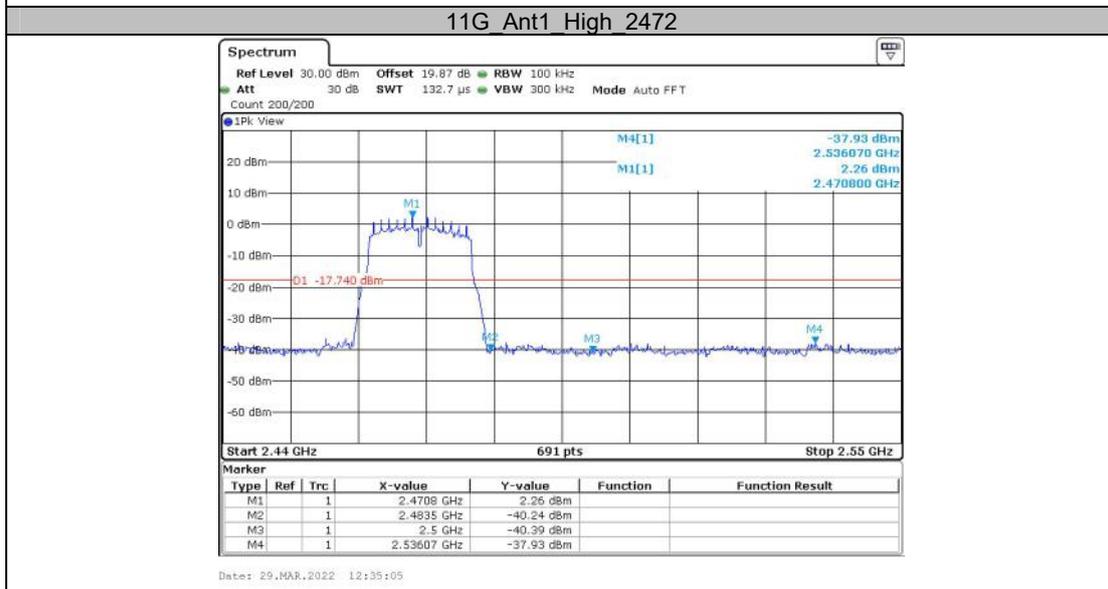
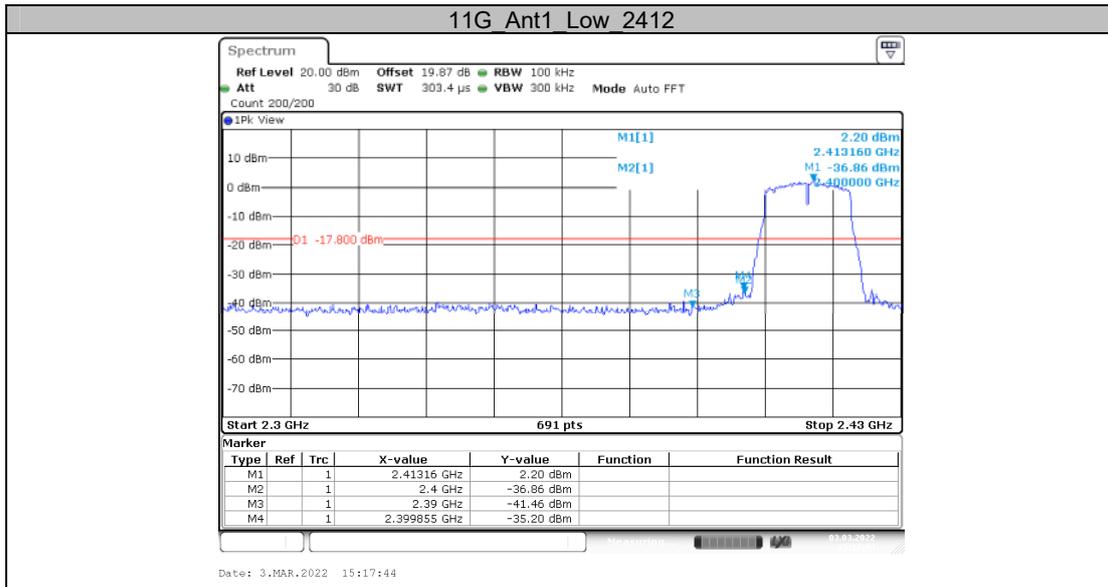


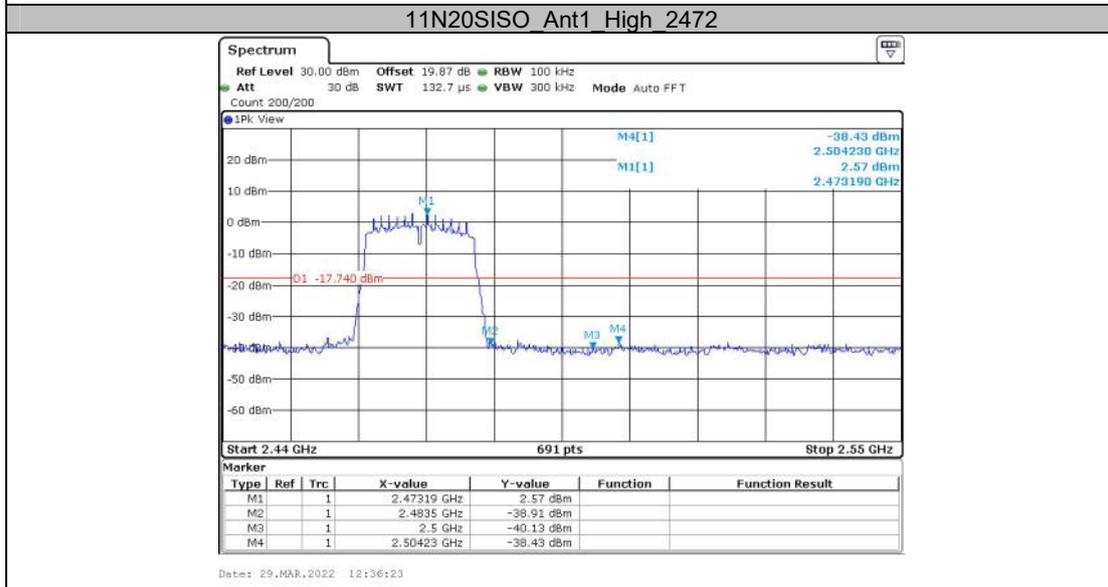
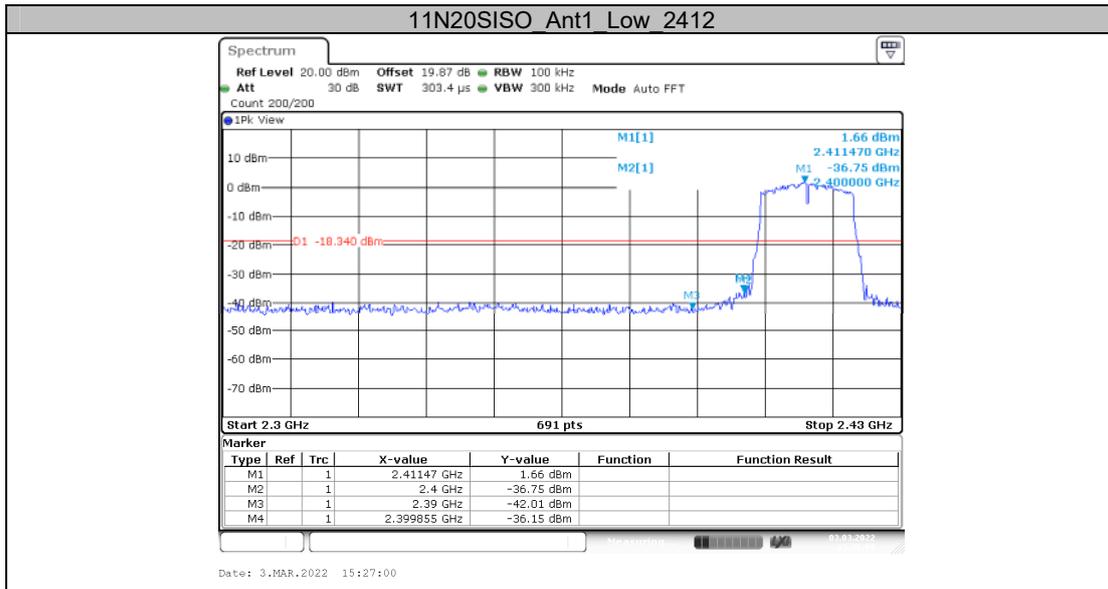


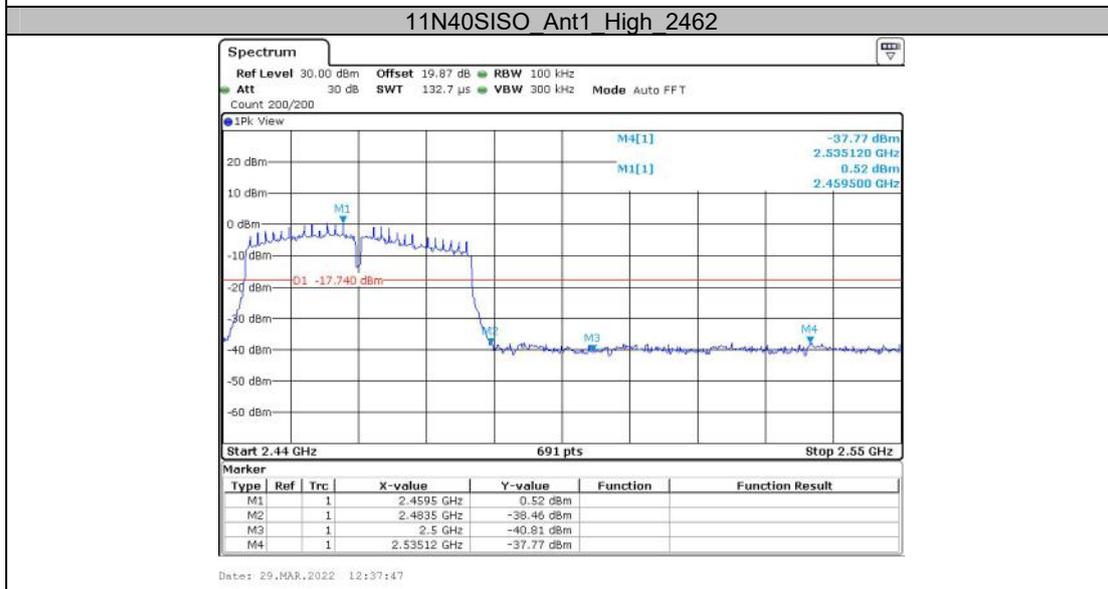
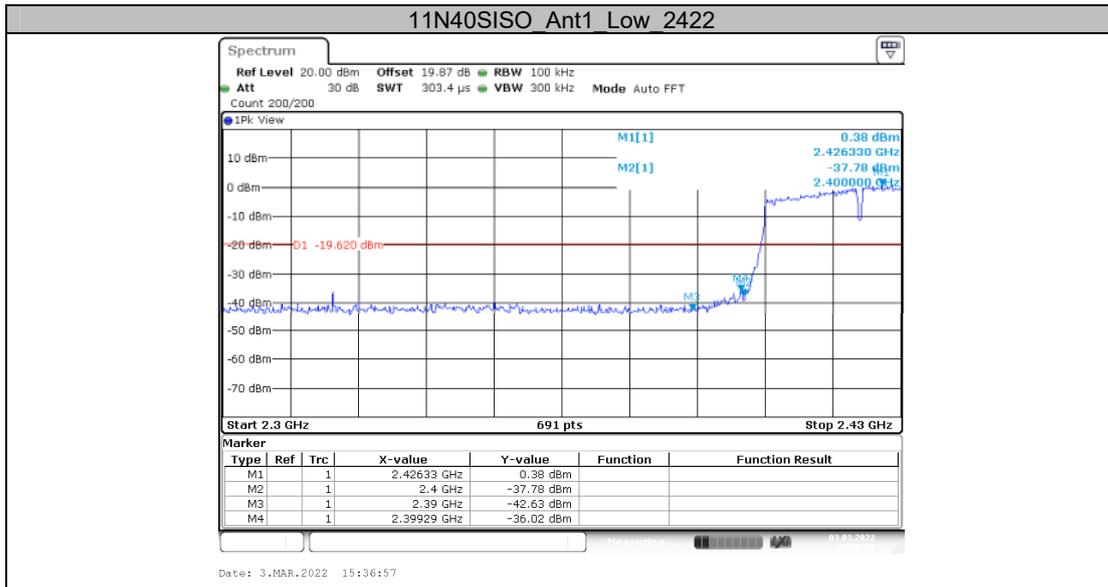
### Appendix E: Band edge measurements

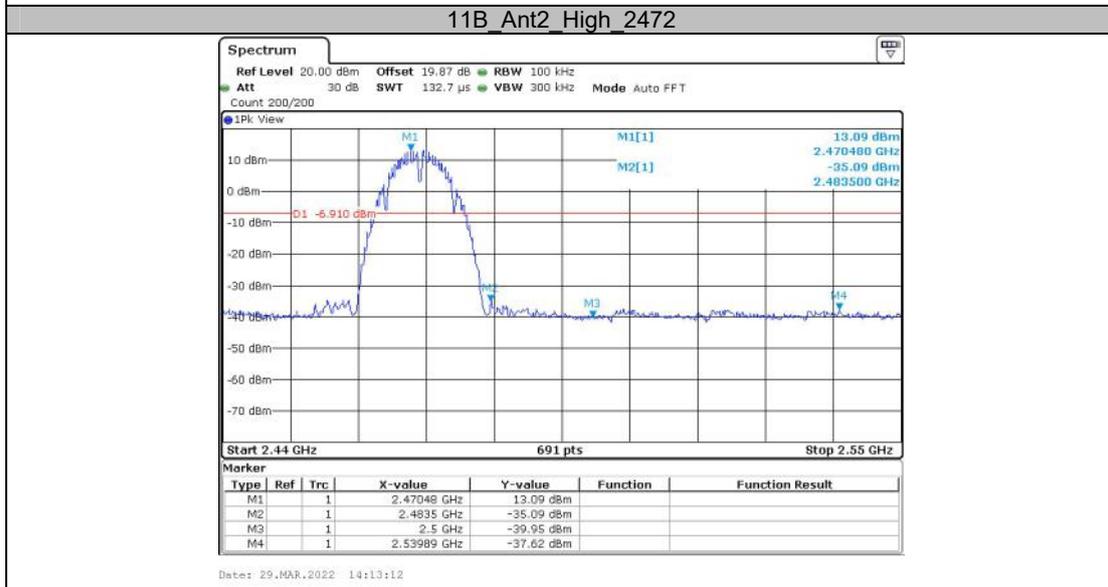
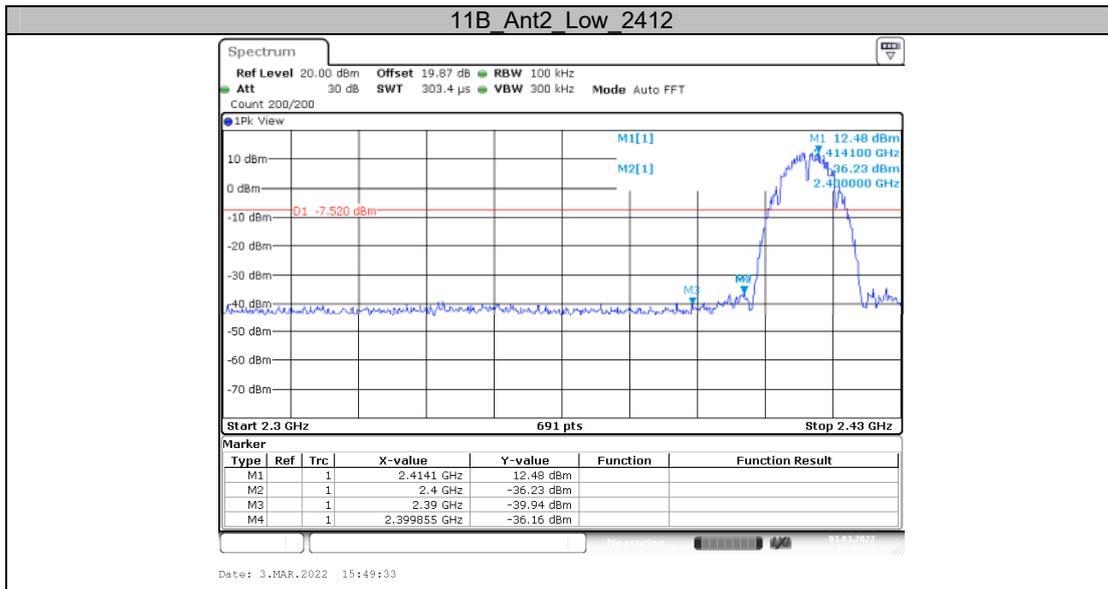
#### Test Graphs

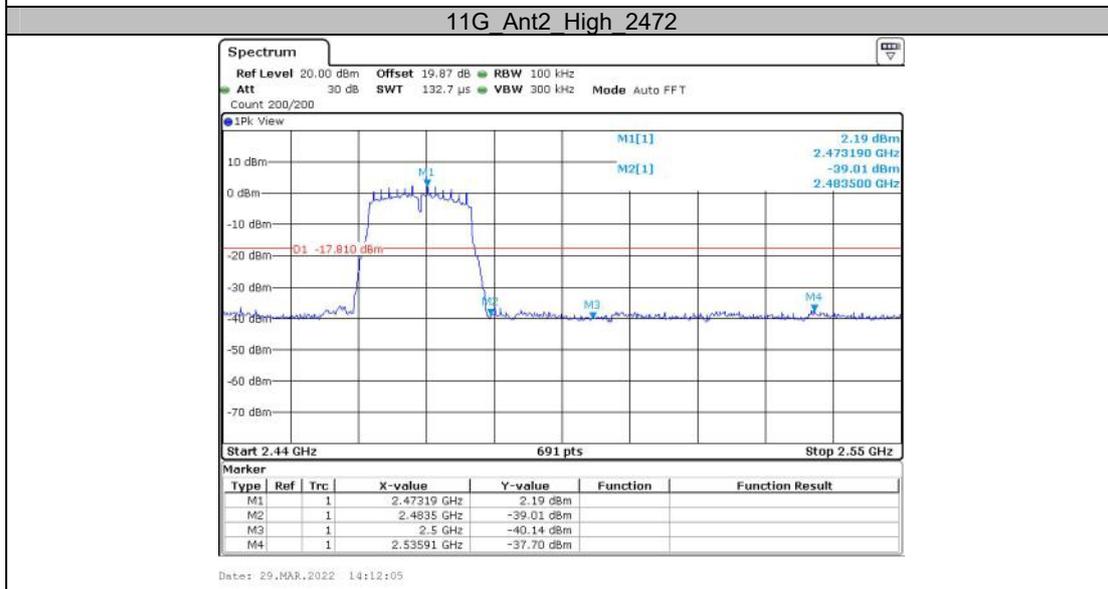
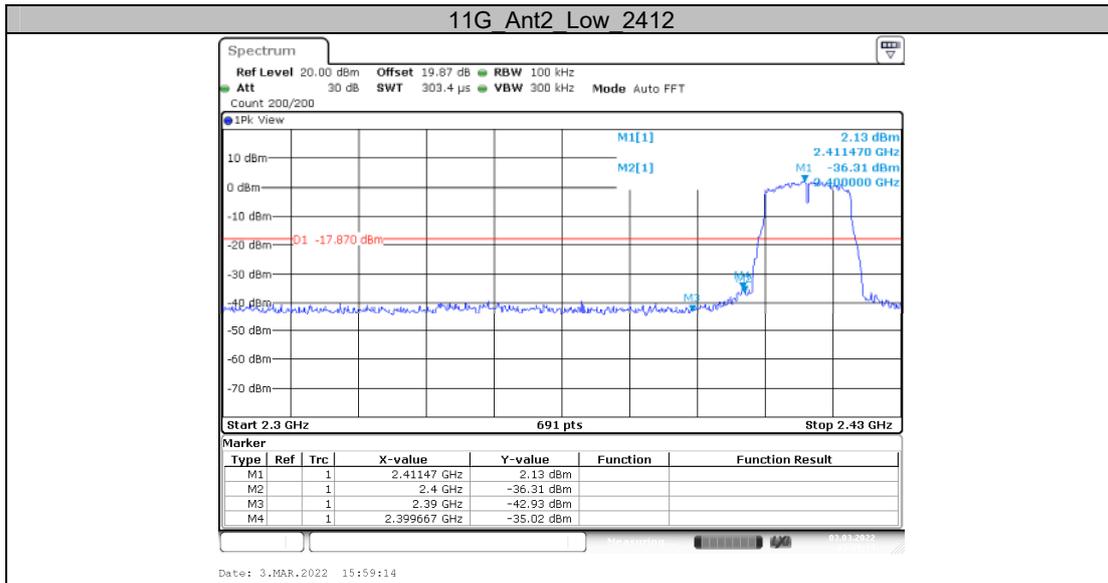


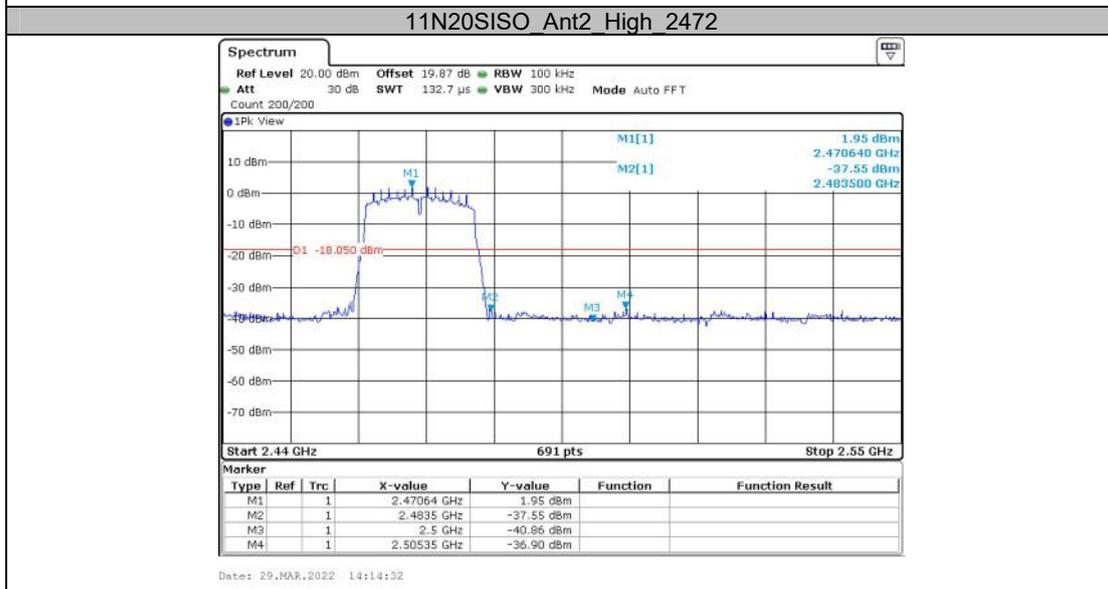
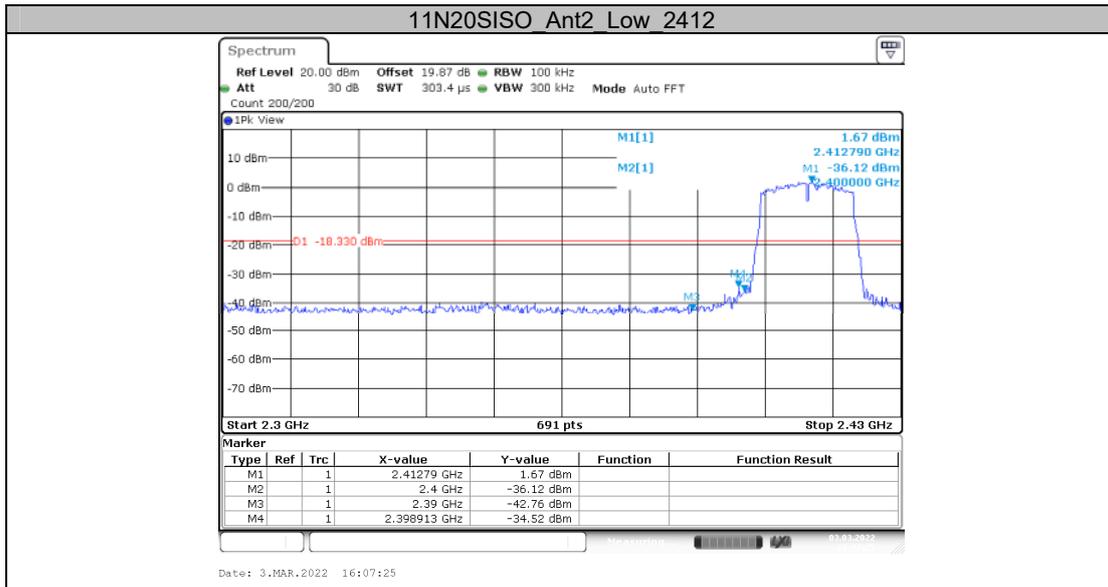


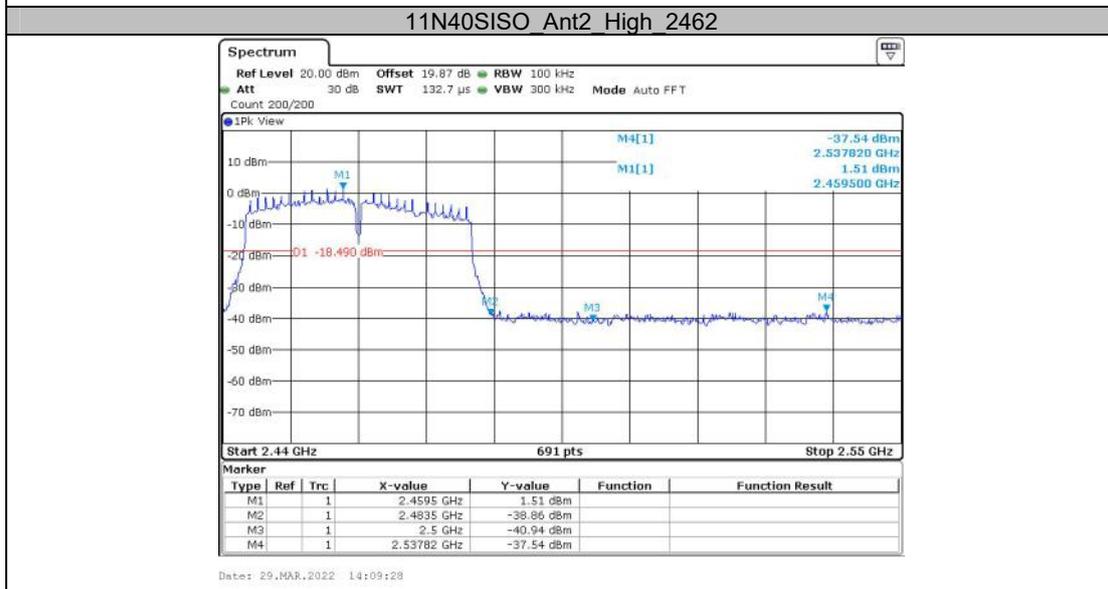
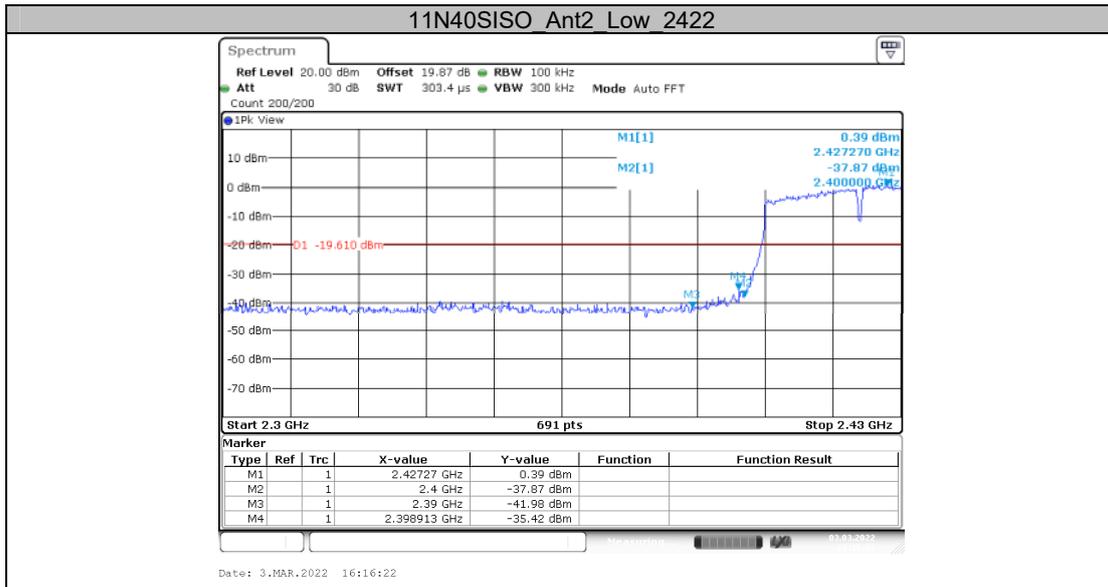










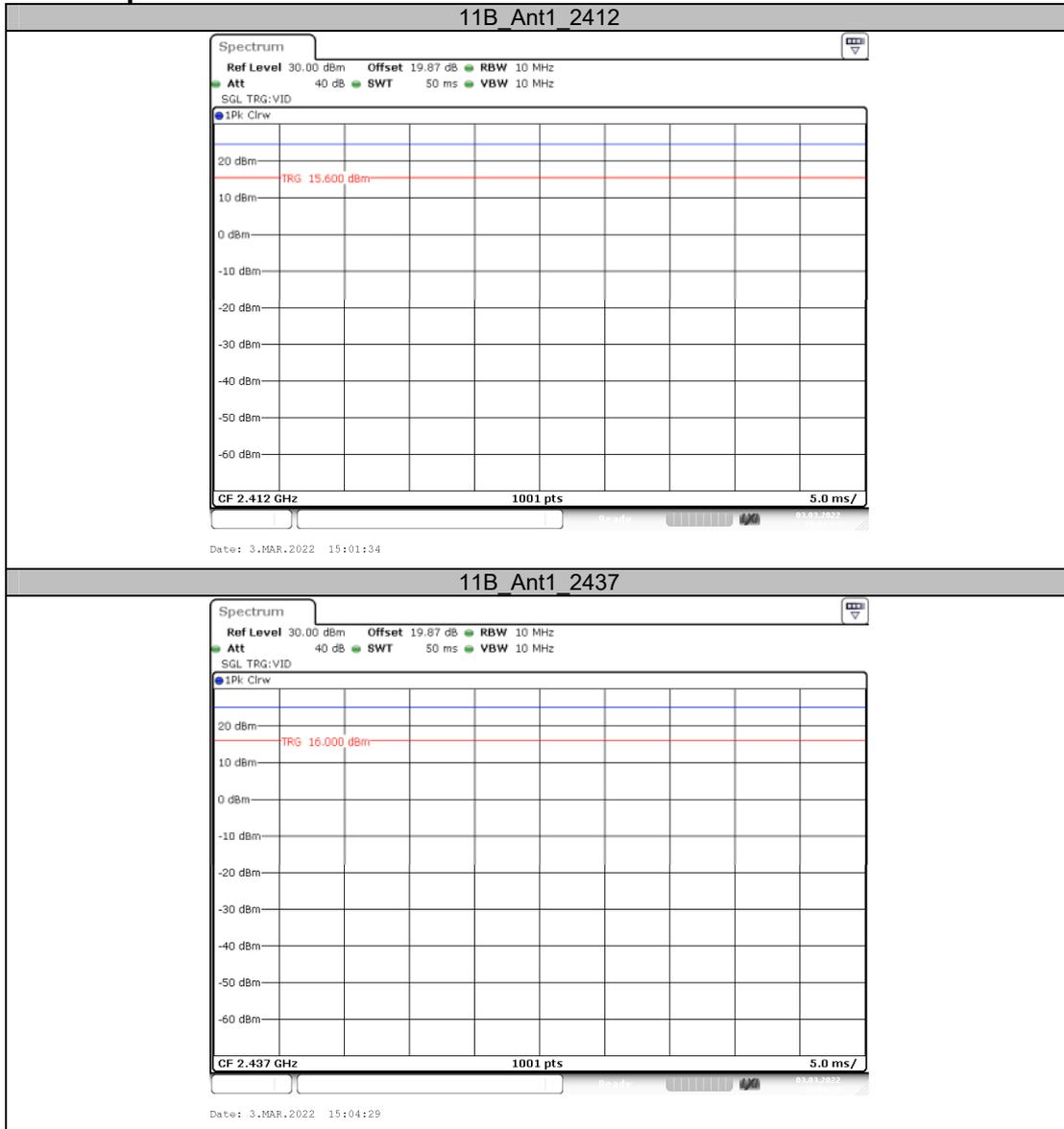


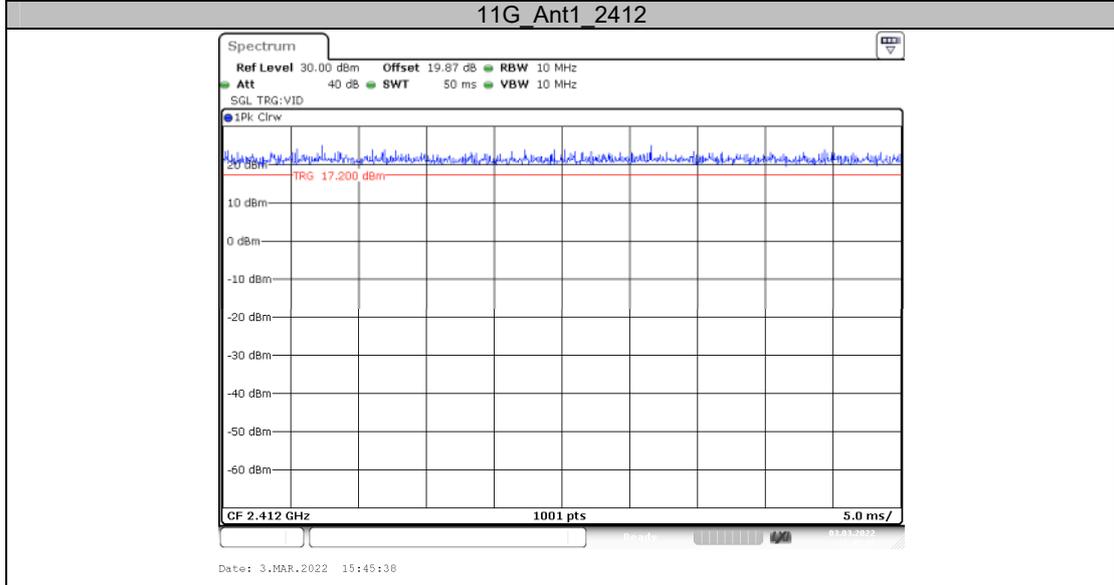
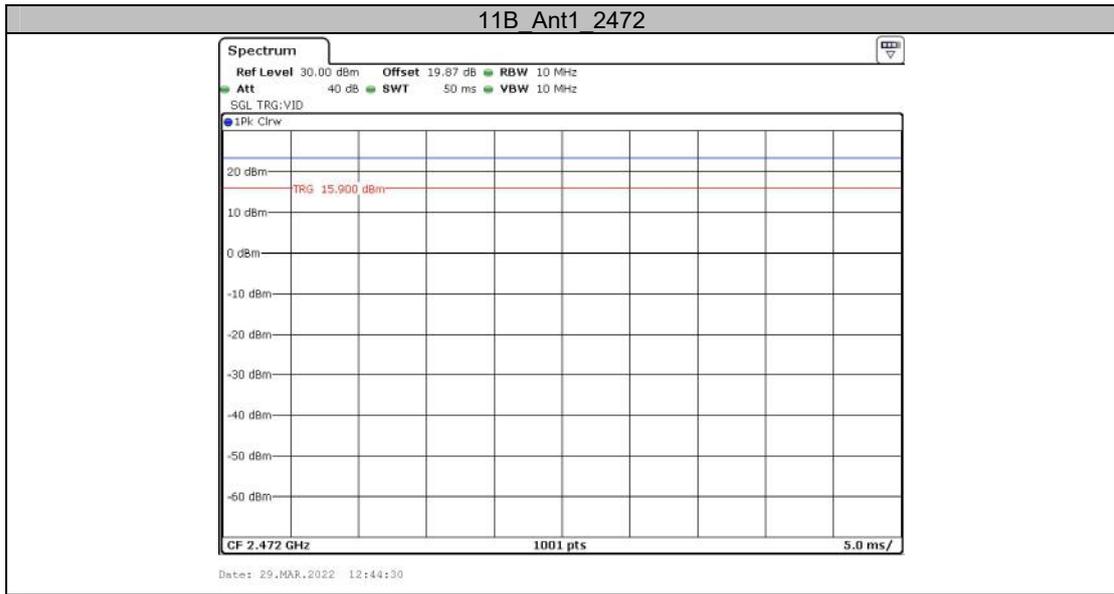
## Appendix F: Duty Cycle Test Result

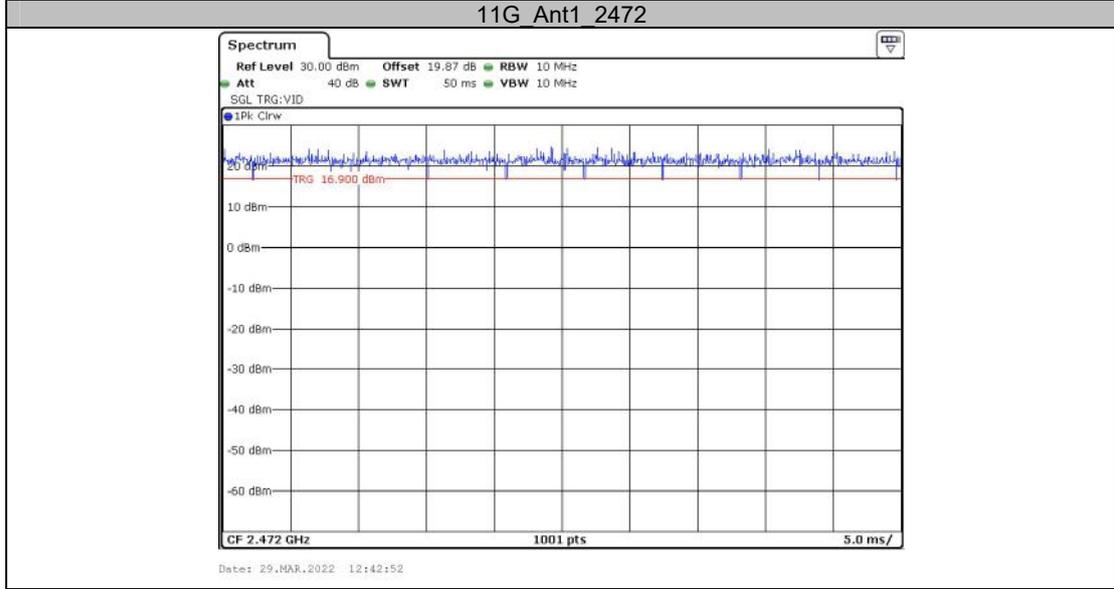
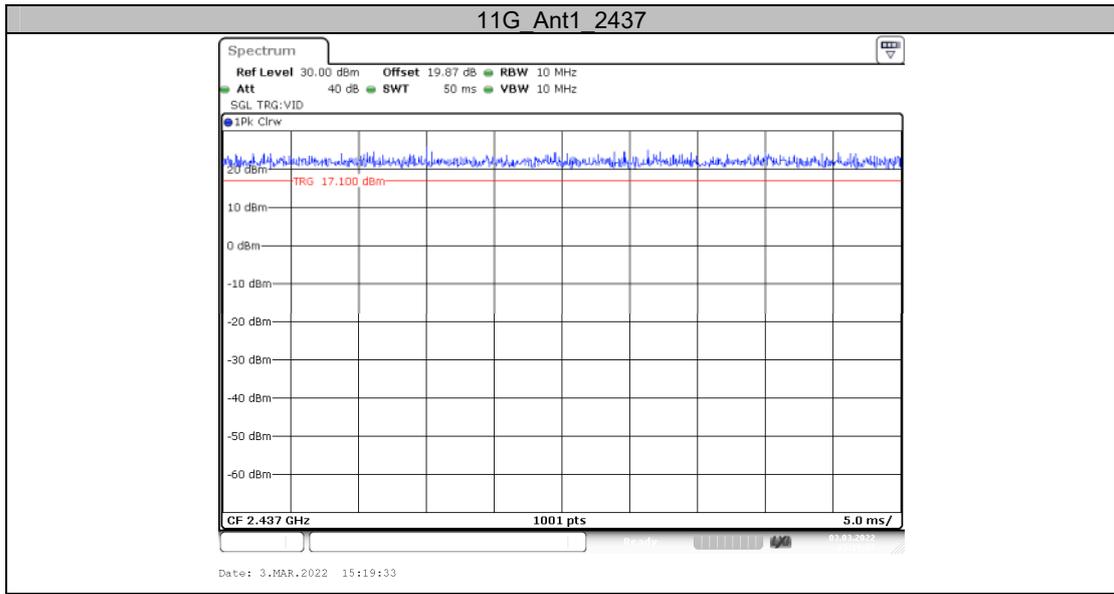
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11G	Ant1	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N20SISO	Ant1	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N40SISO	Ant1	2422	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2462	50.00	50.00	100.00

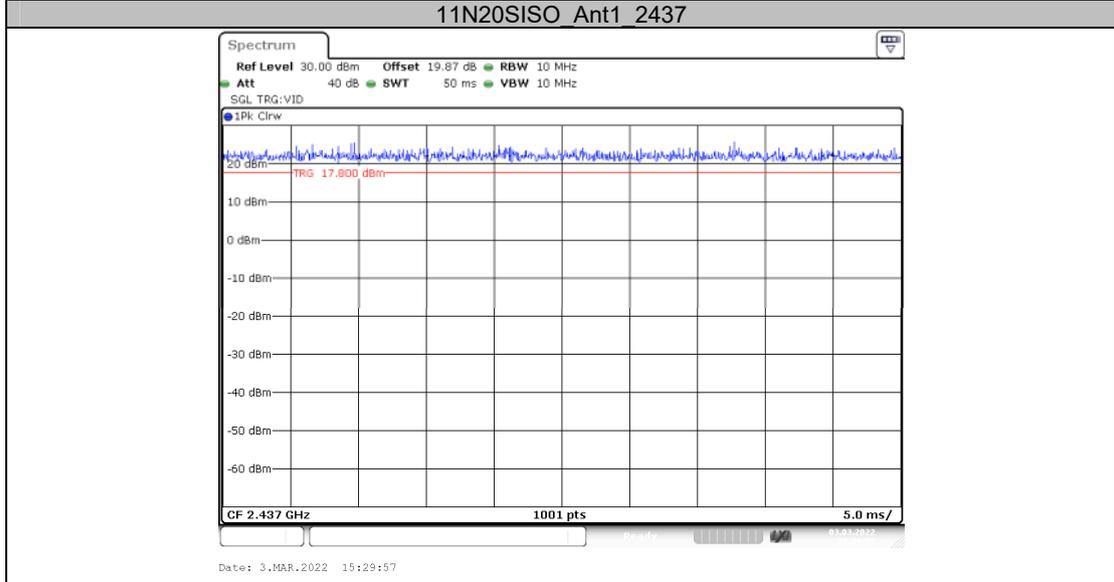
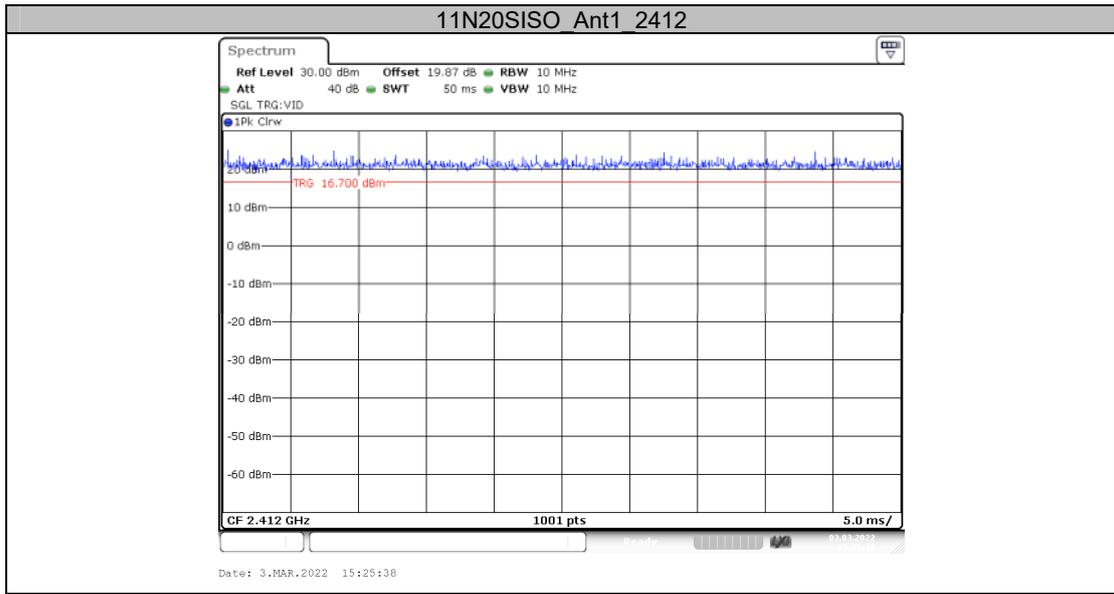
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant2	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11G	Ant2	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N20SISO	Ant2	2412	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N40SISO	Ant2	2422	50.00	50.00	100.00
		2437	50.00	50.00	100.00
		2462	50.00	50.00	100.00

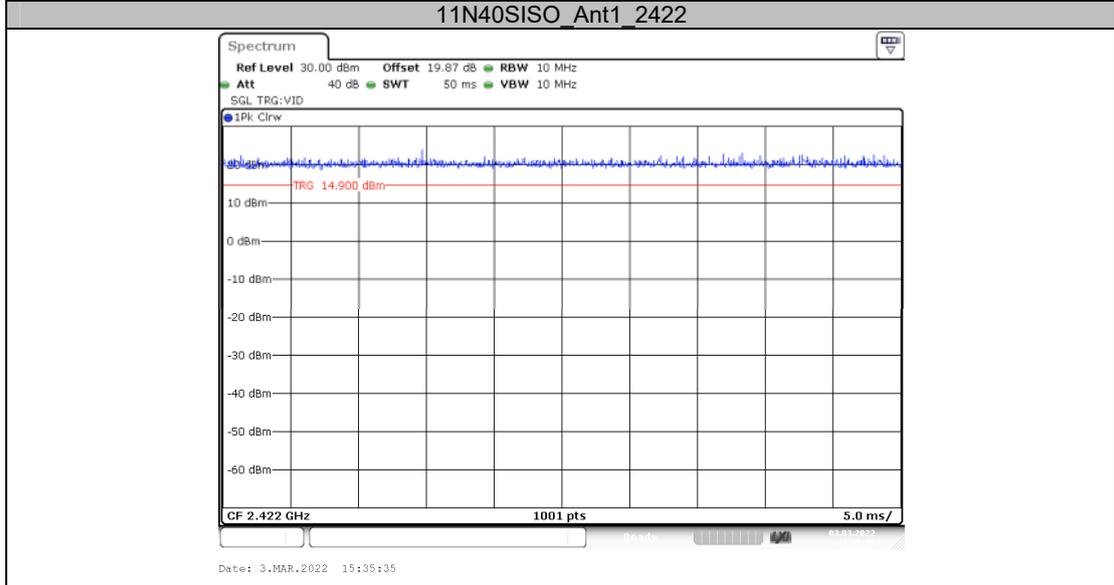
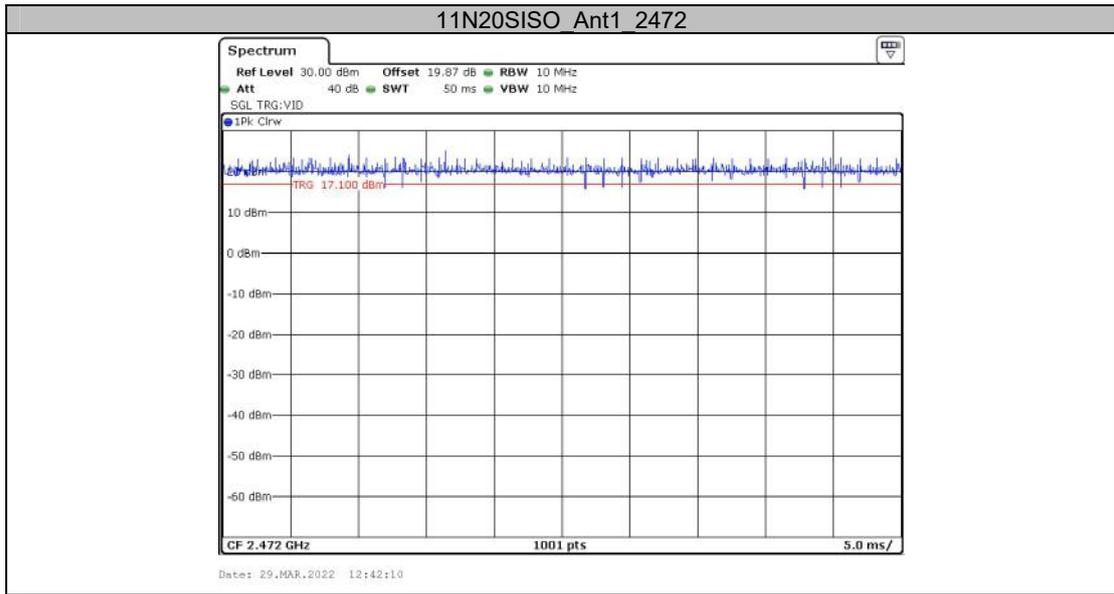
### Test Graphs

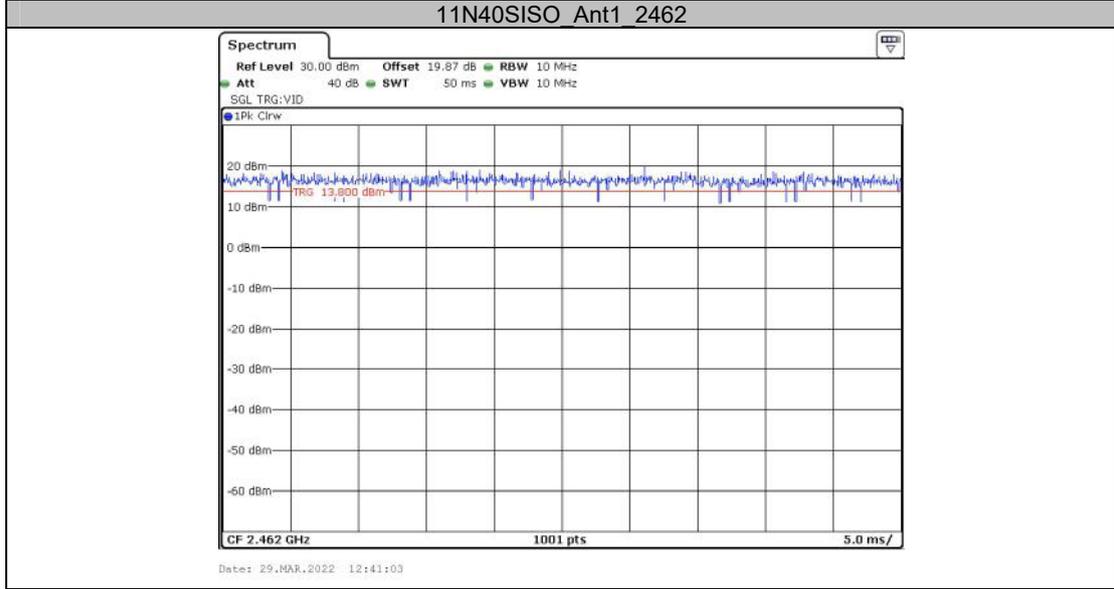
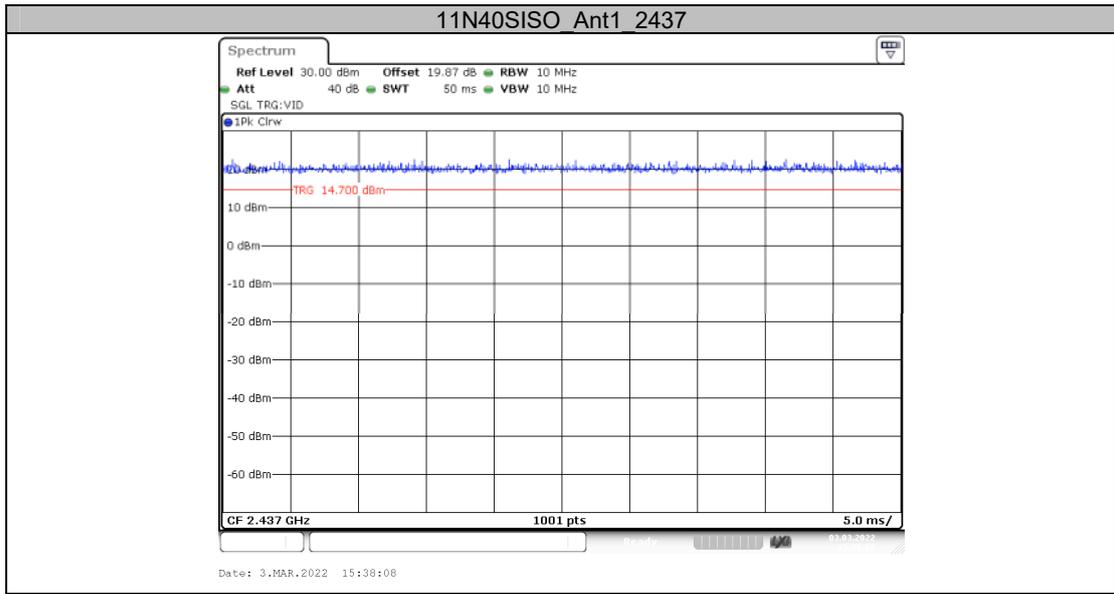


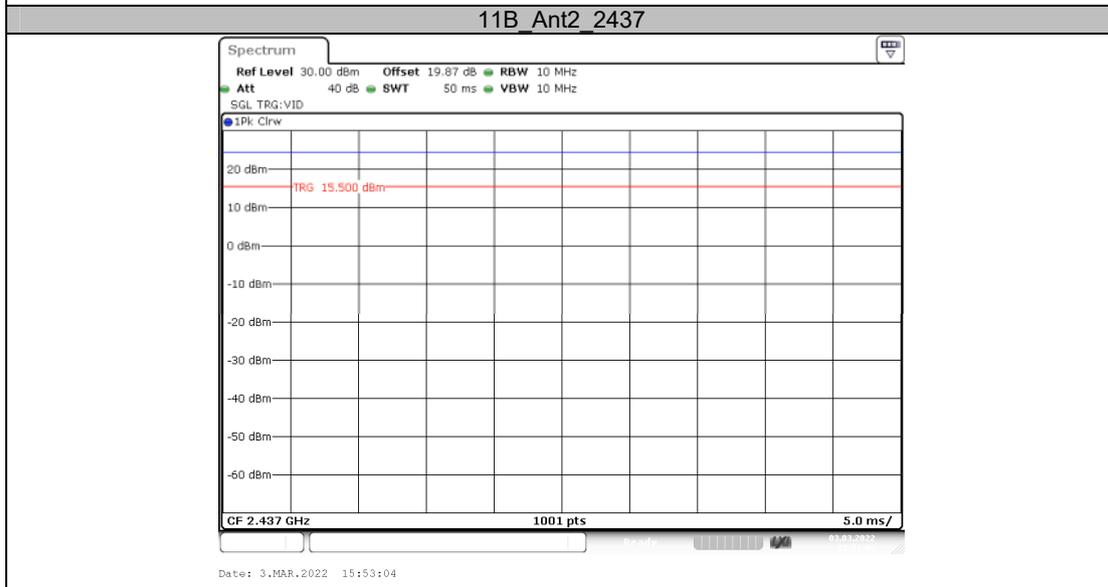
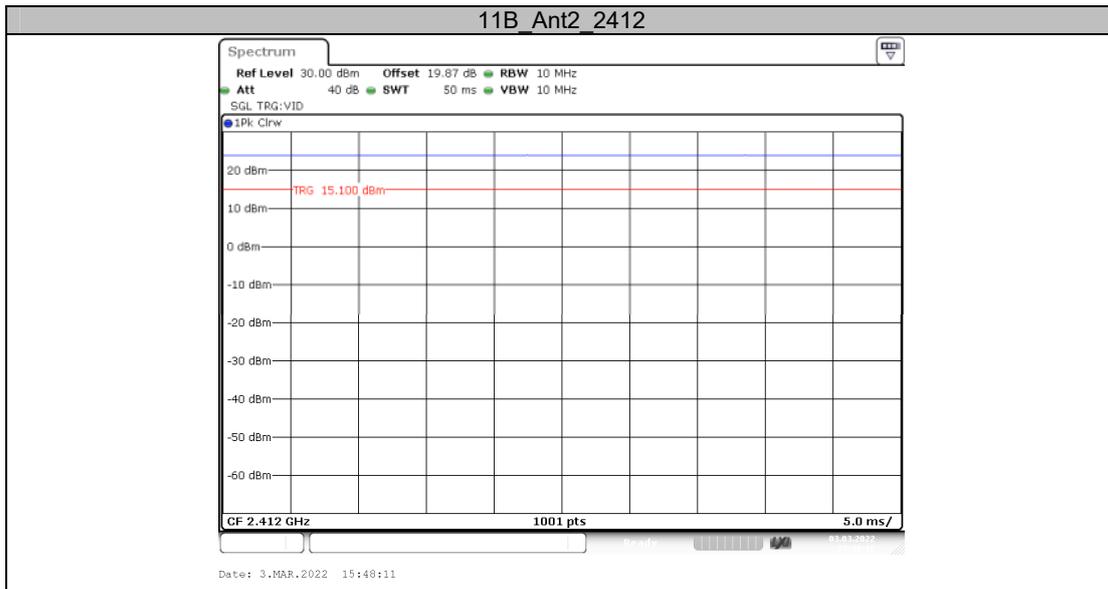


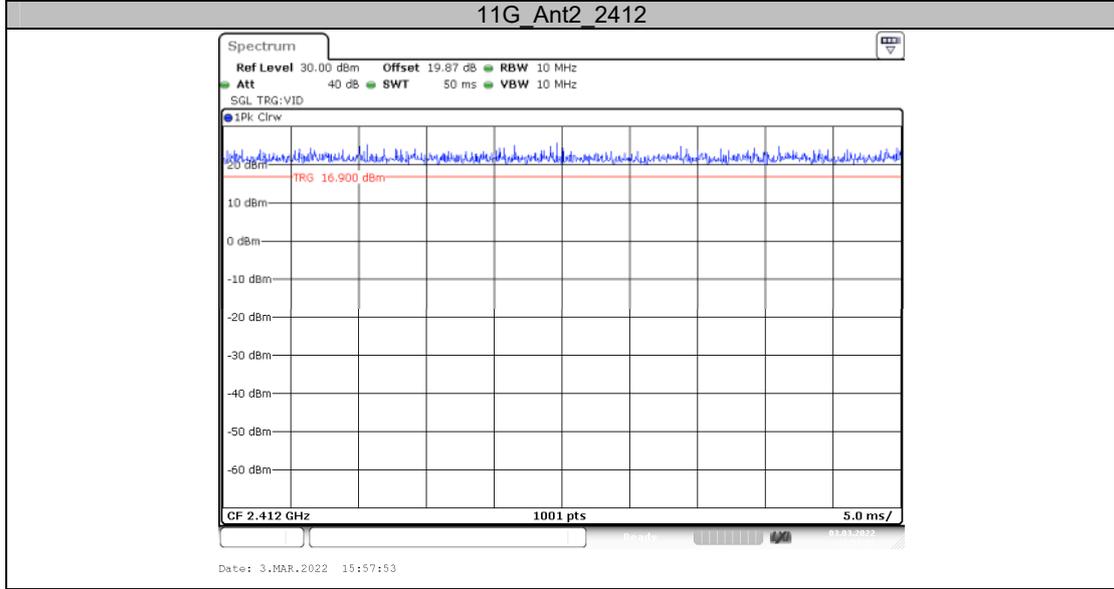
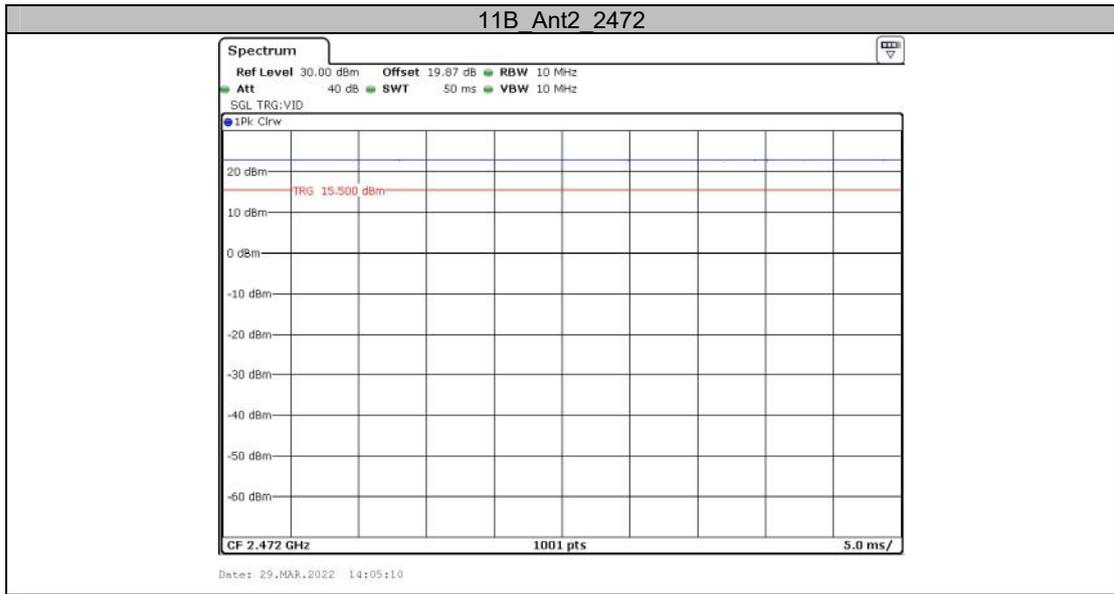


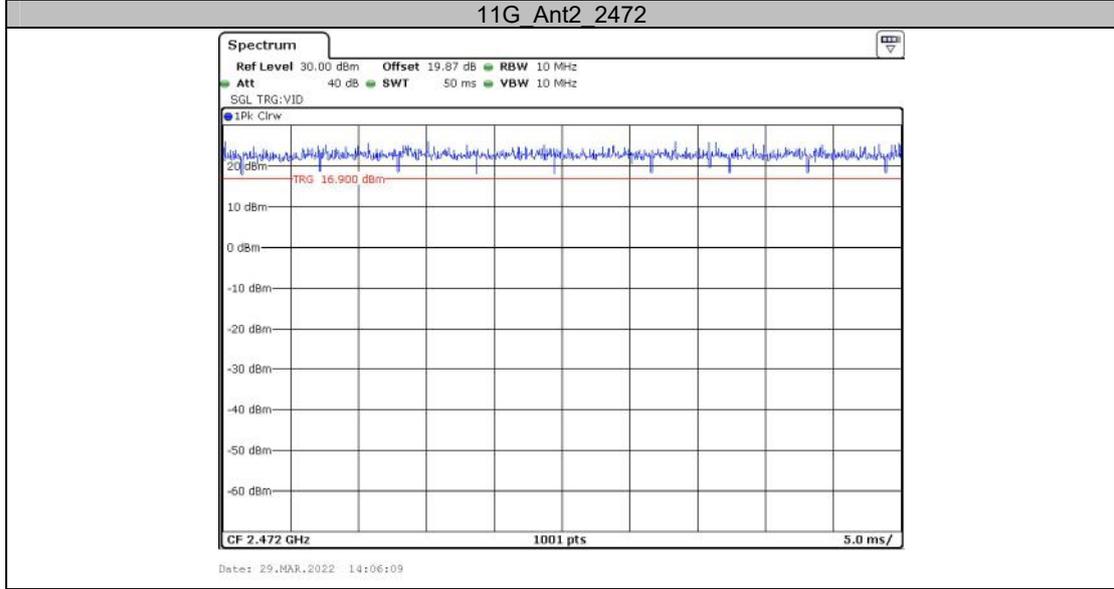
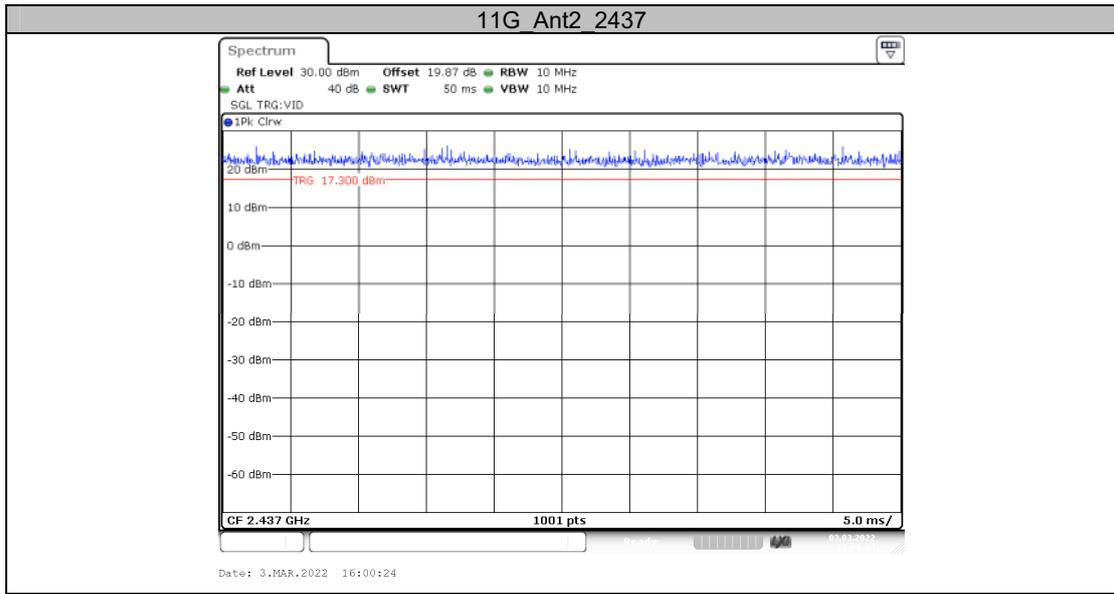


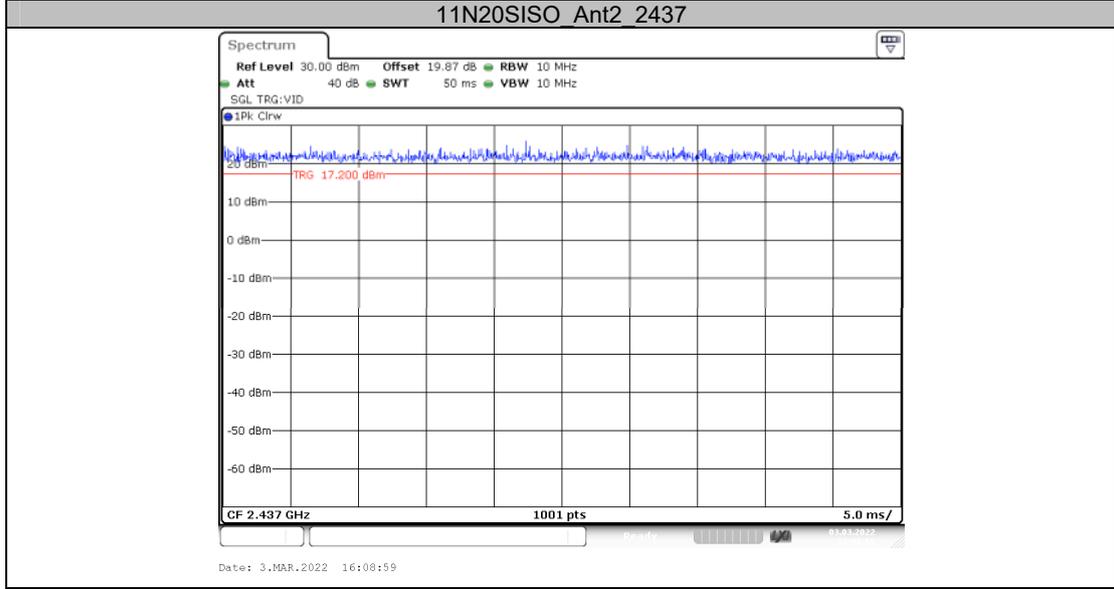
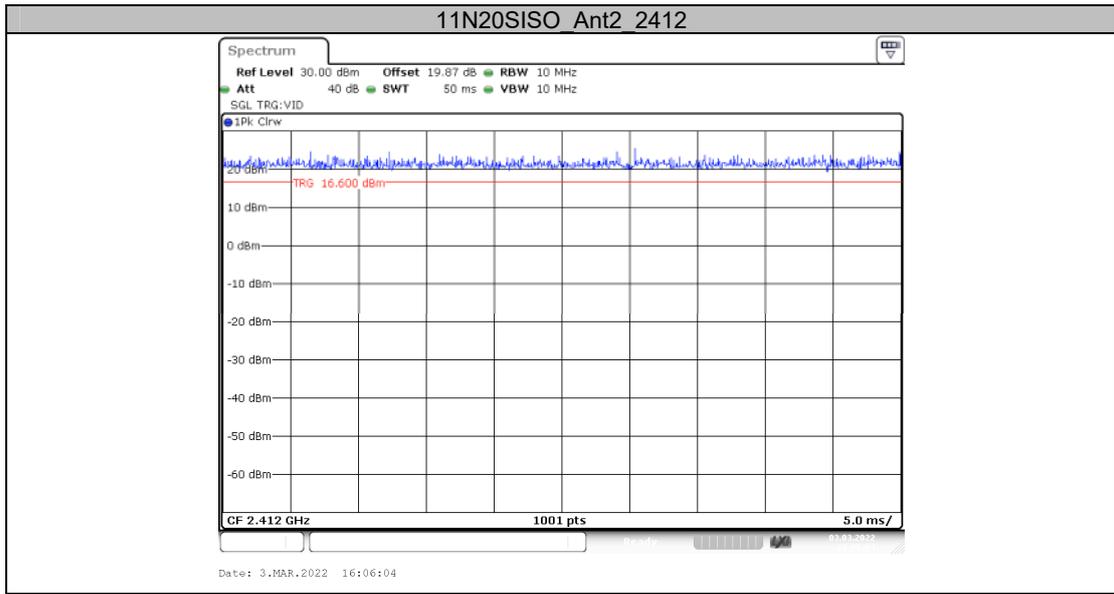


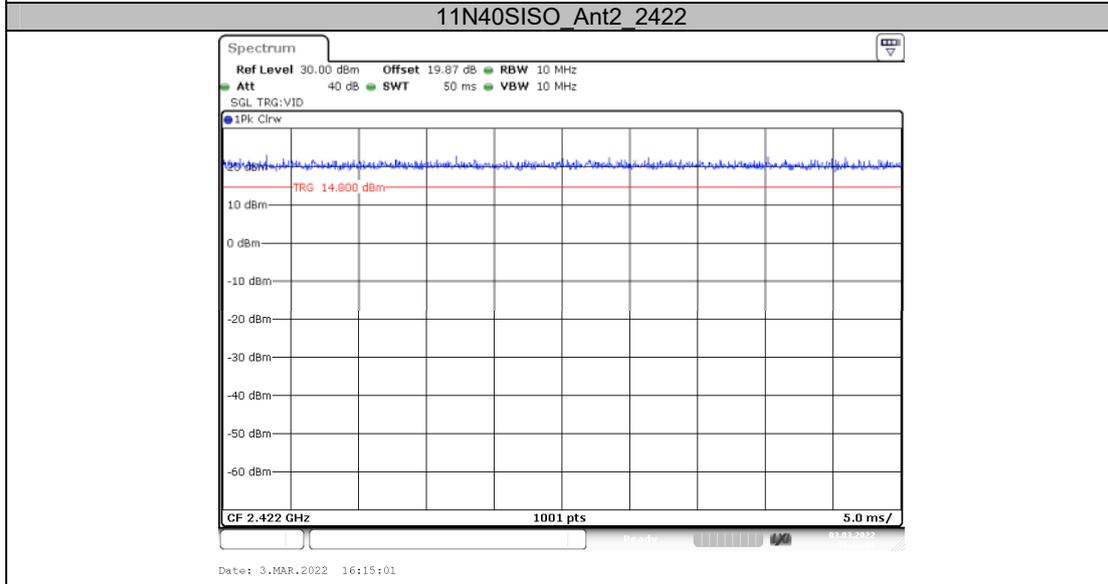
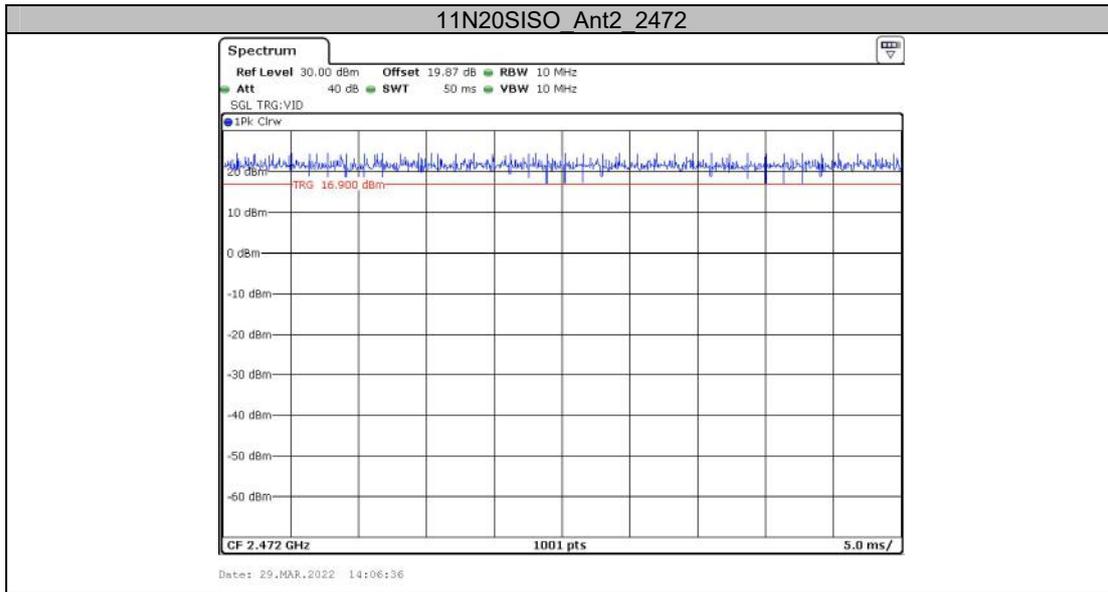


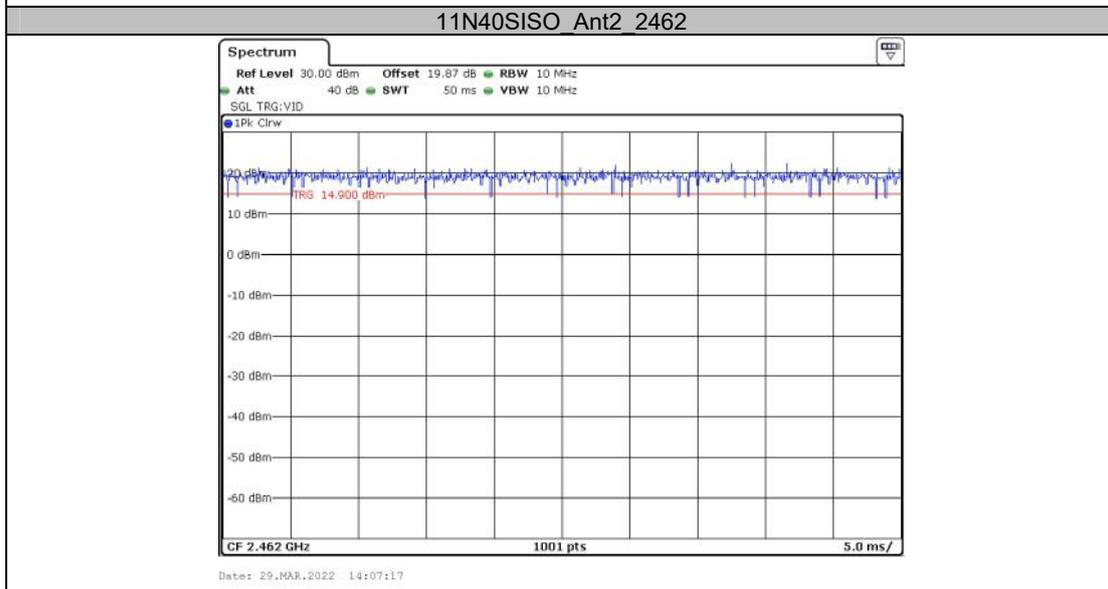
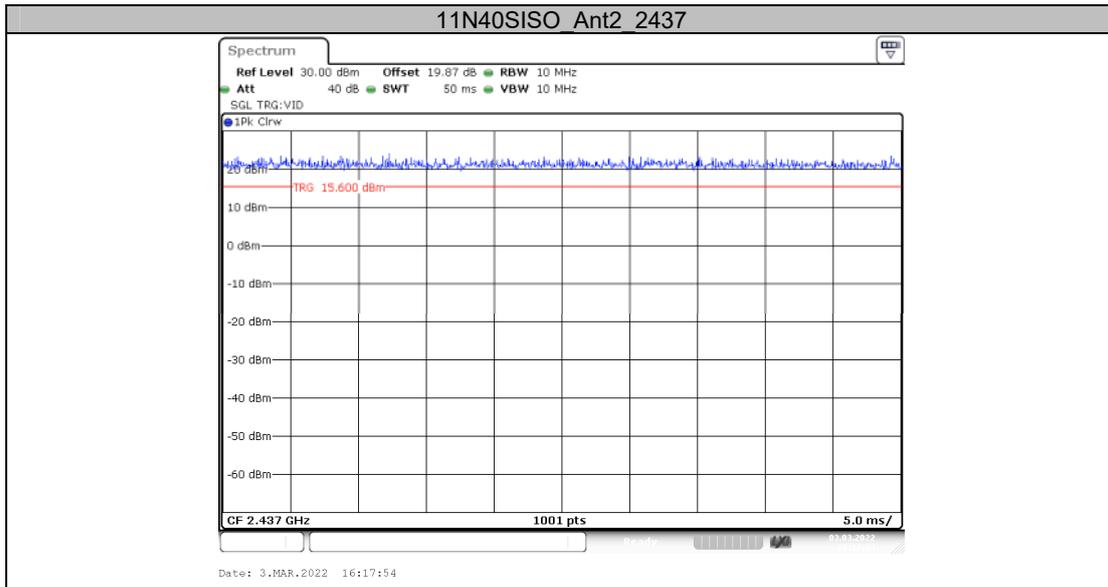












**\*\*\*\*\* END OF REPORT \*\*\*\*\***