FCC TEST REPORT

For

Mobile Phone

Model Number: CPH2541, A302OP

FCC ID: R9C-AC078

Report Number : WT238000449

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
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Revision History

No	Date	Remark
V1.0	2023.04.18	Initial issue

TEST REPORT DECLARATION

Applicant	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
EUT Description	:	Mobile Phone
Model No.	:	CPH2541, A302OP
Trade mark	:	OPPO
Serial Number	:	/
FCC ID	:	R9C-AC078

Test Standards:

FCC Part 15 Subpart C

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209, 15.247.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	陈司林 (Chen Silin 陈司林)	Date:	Apr.18, 2023
Checked by:	万晓婧 (Wan Xiaojing 万晓婧)	Date:	Apr.18, 2023
Approved by:	林奕翔 (Lin Yixiang 林奕翔)	Date:	Apr.18, 2023

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
6dB DTS bandwidth measurement	15.247 (a) (2)	Pass
Maximum Peak Conducted Power	15.247 (b) (3)	Pass
Maximum Power Spectral Density Level	15.247 (e)	Pass
Conducted Bandedge and Spurious	15.247 (d)	Pass
Radiated Bandedge and Spurious	15.247 (d) 15.209 15.205	Pass
Conducted emission test for AC power port	15.207	Pass
Antenna Requirement	15.203	Pass

Remark: “N/A” means “Not applicable.”

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for

Laboratory Accreditation (A2LA) and certificate number is 3292.01.

2.3. Measurement Uncertainty

Conducted Emission
9 kHz~150 kHz U=3.7dB k=2
150 kHz~30MHz U=3.3dB k=2

Radiated Emission
30MHz~1000MHz U=4.3dB k=2
1GHz~6GHz U=4.6 dB k=2
6GHz~40GHz U=5.1dB k=2

3. PRODUCT DESCRIPTION

NOTE: The extreme test conditions for temperature and antenna gain were declared by the manufacturer.

3.1. EUT Description

Description	:	Mobile Phone
Manufacturer	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Model Number	:	CPH2541, A302OP
Operate Frequency	:	2.412GHz~2.462GHz
Antenna Designation	:	IFA Antenna: Ant 9: 0.5dBi, Ant 10: -0.5dBi
Operating voltage	:	DC7.0V (Low)/DC7.82V (Nominal)/DC8.7V (Max)
Software Version	:	ColorOS V13.1
Hardware Version	:	11

Remark: The difference between product of CPH2541and A302OP as below:
Different model names for different clients.
Except listings above, all of the model's circuit theory, electrical design and Critical Components are the same. Unless otherwise specified, the model CPH2541 was chosen as the representative model to perform all the tests.

WLAN:

Table 2 Working Frequencies Lists (802.11b, 802.11g, 802.11n HT20, 802.11ac VHT20, and 802.11ax HEW20)

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

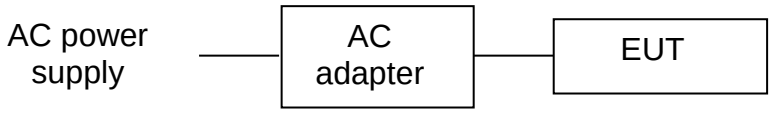
Table 3 Working Frequencies Lists (802.11n HT40, 802.11ac VHT40, and 802.11ax HEW40)

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

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **R9C-AC078** filing to comply with Section 15.207,15.209，15.247 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



Setup of test

3.4. Operating Condition of EUT

The Radiated spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).
Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power.
Worst-case data rates as provided by the client were:
802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ac VHT20 mode: MCS0
802.11ac VHT40 mode: MCS0
802.11ax HEW20 mode: MCS0
802.11ax HEW40 mode: MCS0
802.11b and 802.11g operates in SISO/CDD mode. For SISO/CDD conducted measurements, the modes tested in this report will be considered as a worst case mode.
802.11n, 802.11ac and 802.11ax operate in SISO/MIMO mode. For SISO/MIMO conducted measurements, the modes tested in this report will be considered as a worst case mode.
The EUT supports a MIMO function.

Modulation Mode:	Single(TX)	Two(TX)
802.11b/g	support	support
802.11n HT20	support	support
802.11n HT40	support	support
802.11ac VHT20	support	support
802.11ac VHT40	support	support

802.11ax HEW20	support	support
802.11ax HEW40	support	support

For RSE and bandedge test, both of Single (TX) and Two (TX) mode are evaluated, only the worst case is recorded in this report.

3.5. Directional Antenna Gain

Per ANSI C63.10-2013 Subclause 14.4.3.

3.6. Support Equipment List

Table 4 Support Equipment List

Name	Model No	S/N	Manufacturer
Adapter 1# for EUT	VCBAJAJH	---	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD.
Adapter 2# for EUT	VCB8JAUH	---	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD.
Rechargeable Li-ion Polymer Battery for EUT	BLP997	---	Sunwoda Electronic Co., Ltd.
USB Cable for EUT	DL129	---	---

3.7. Test Conditions

Date of test: Mar.16, 2023- Apr.16, 2023
Date of EUT Receive: Mar.14, 2022
Temperature: 20℃-26℃
Relative Humidity: 42%-58%

3.8. Special Accessories

Not available for this EUT intended for grant.

3.9. Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Table 5 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB9058/05	Test Receiver	R&S	ESCI 3	Sep.13,2022	1 Year
SB4357	AMN	R&S	ENN216	Aug.23,2022	1 Year
SB9548	Shielded Room	Albatross	SR	Sep.06,2022	1 Year
SB17366	Test Receiver	R&S	ESR26	Jun.22,2022	1 Year
SB3345	Loop Antenna	Schwarzbeck	FMZB1516-113	Jan.19,2023	1 Year
SB3955	Broadband Antenna	SCHWARZBECK	VULB9163	Jun.22,2022	1 Year
SB13958	Horn Antenna	R&S	HF907	Jun.07,2022	1 Year
SB9555/01	Semi Anechoic Chamber	Albatross	9×6×6(m)	Aug.16,2022	1 Year
SB8501/09	Test Receiver	R&S	ESU40	Jan.19,2023	1 Year
SB3435	Horn Antenna	R&S	HF906	Nov.28,2022	1 Year
SB9058/03	Pre-Amplifier	R&S	SCU 18	Jan.19,2023	1 Year
SB8501/11	Antenna	R&S	3160-09	Feb.22,2023	3 Years
SB8501/12	Antenna	R&S	3160-10	Feb.22,2023	3 Years
SB8501/16	Pre-Amplifier	R&S	SCU-26	Jan.19,2023	1 Year
SB9059	Pre-Amplifier	R&S	SCU-40	Aug.23,2022	1 Year
SB9555/02	Fully Anechoic Chamber	Albatross	10.0×5.2×5.4(m)	Aug.16,2022	1 Year
SB20321/01	Spectrum Analyzer	R&S	FSV3044	Dec.15, 2022	1 Year

Table 6 Test software

Name	Manufacturer	Version
Bluetooth and WiFi Test System	Shenzhen JS tonscend co.,ltd	2.6.88.0330

5. DUTY CYCLE

5.1. LIMITS OF DUTY CYCLE

None; for reporting purposes only

5.2. TEST PROCEDURE

1. Set span = Zero
2. RBW = 10MHz
3. VBW = 10MHz,
4. Detector = Peak

5.3. TEST SETUP

5.4. TEST DATA

Table 7 Duty Cycle Test Data

Test Mode	On Time (ms)	Duty Cycle (%)	Duty Factor	1/T Minimum VBW (kHz)
802.11b	12.63	99.92	0	0.01
802.11g	2.09	99.05	0	0.01
802.11n HT20	5.43	99.63	0	0.01
802.11n HT40	5.43	99.82	0	0.01
802.11ac VHT20	5.42	99.82	0	0.01
802.11ac VHT40	5.42	99.63	0	0.01
802.11ax HEW20	5.45	99.82	0	0.01
802.11ax HEW40	5.44	99.63	0	0.01

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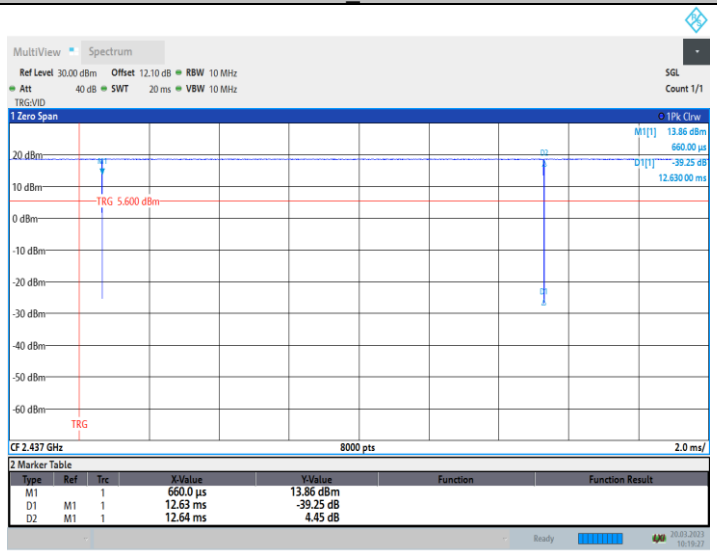
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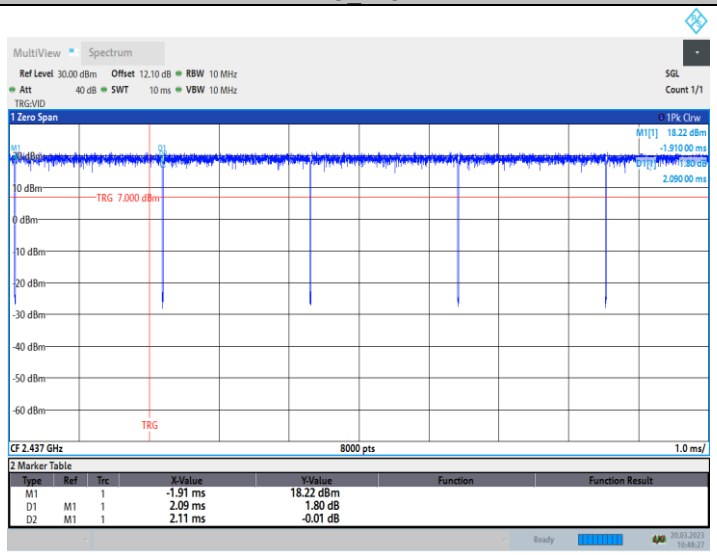
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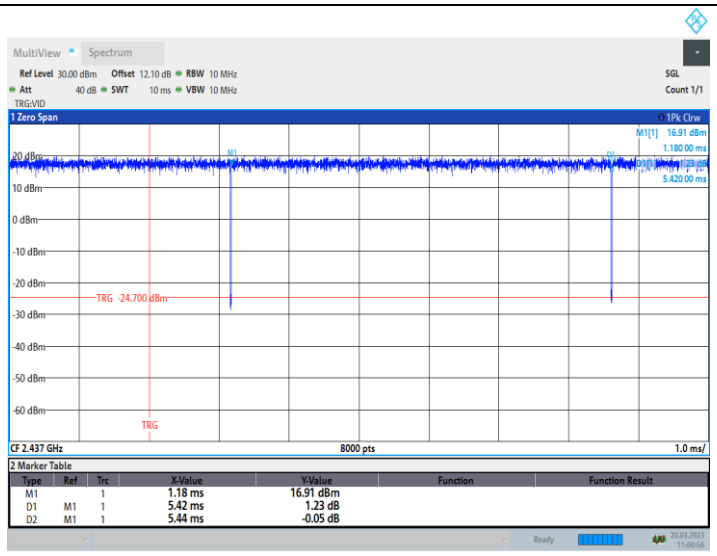

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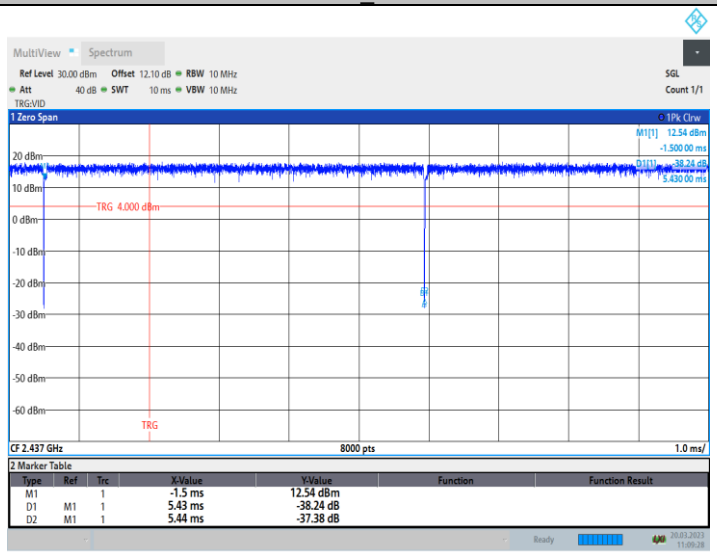

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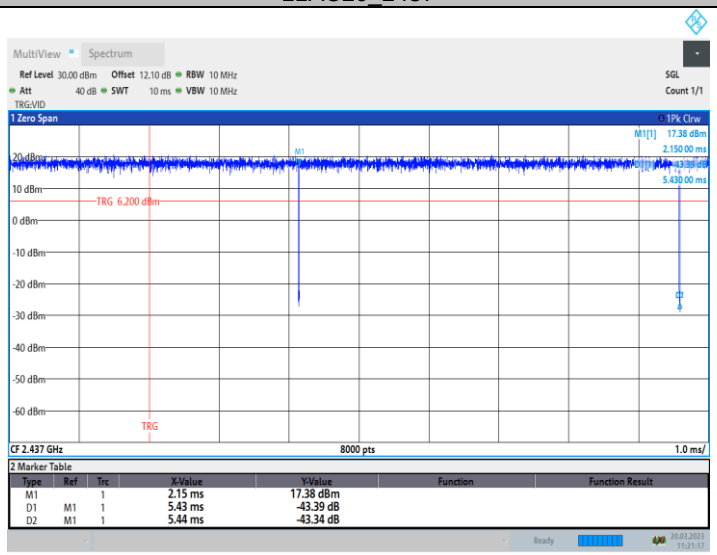

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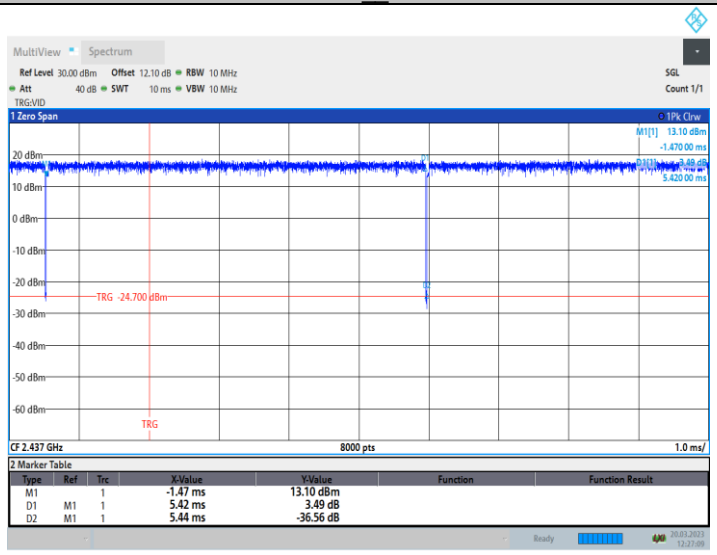
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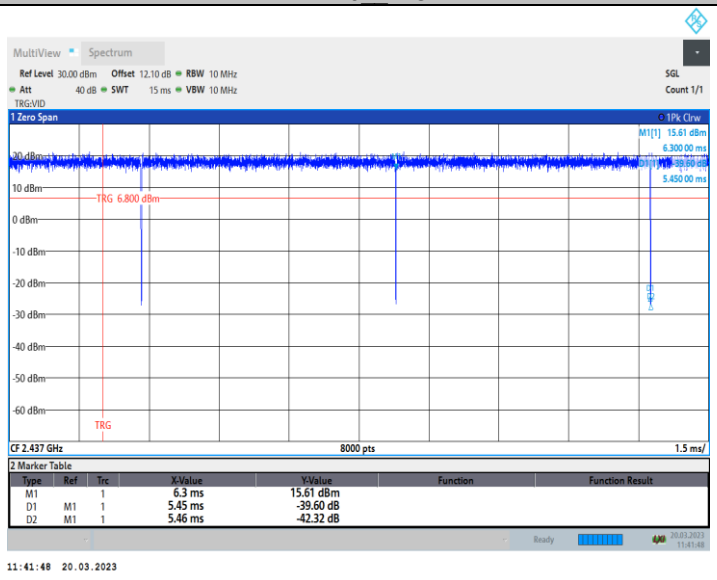
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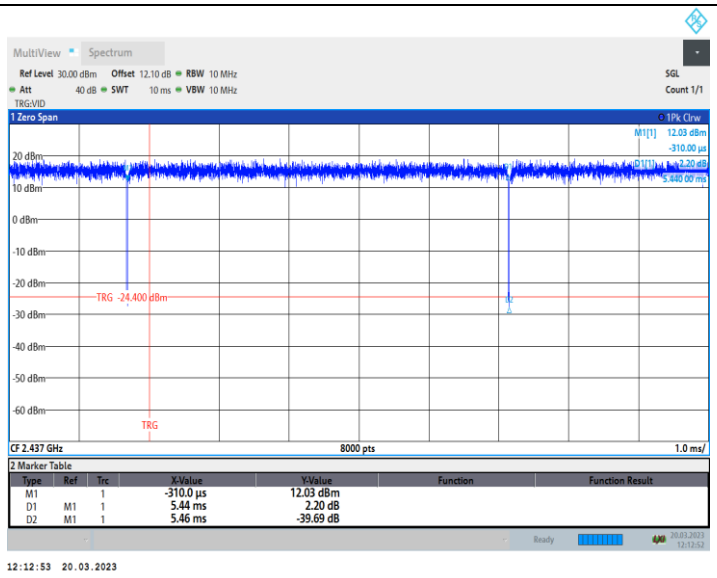

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6. 6DB BANDWIDTH MEASUREMENT

6.1. LIMITS OF 6dB BANDWIDTH MEASUREMENT

CFR 47 (FCC) part 15.247 (a) (2)

6.2. TEST PROCEDURE

ANSI C63.10-2013 Clause 11.8
The transmitter output was connected to the spectrum analyzer.
a) Set RBW = 100 kHz.
b) Set the VBW ≥ [3 × RBW].
c)Detector = Peak.
d)Trace mode = max hold.
e)Sweep = auto couple.
f)Allow the trace to stabilize.
g)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

6.3. TEST SETUP

6.4. Test Data

6dB Bandwidth Test Data

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant9	2412	8.52	2407.48	2416.00	0.5	PASS
		2437	8.12	2432.92	2441.04	0.5	PASS
		2462	8.56	2457.44	2466.00	0.5	PASS
11G	Ant9	2412	15.12	2404.44	2419.56	0.5	PASS
		2437	15.08	2429.44	2444.52	0.5	PASS
		2462	15.16	2454.40	2469.56	0.5	PASS
11N20	Ant9	2412	15.16	2404.40	2419.56	0.5	PASS
		2437	15.16	2429.40	2444.56	0.5	PASS
		2462	15.00	2454.48	2469.48	0.5	PASS
11N40	Ant9	2422	35.44	2404.08	2439.52	0.5	PASS
		2437	35.20	2419.32	2454.52	0.5	PASS
		2452	35.20	2434.16	2469.36	0.5	PASS
11AC20	Ant9	2412	17.16	2403.60	2420.76	0.5	PASS
		2437	15.08	2429.40	2444.48	0.5	PASS
		2462	15.04	2454.48	2469.52	0.5	PASS
11AC40	Ant9	2422	35.68	2404.16	2439.84	0.5	PASS

		2437	35.60	2419.08	2454.68	0.5	PASS
		2452	35.44	2434.08	2469.52	0.5	PASS
11AX20	Ant9	2412	19.12	2402.40	2421.52	0.5	PASS
		2437	19.12	2427.40	2446.52	0.5	PASS
		2462	19.08	2452.44	2471.52	0.5	PASS
11AX40	Ant9	2422	38.08	2402.88	2440.96	0.5	PASS
		2437	38.24	2417.88	2456.12	0.5	PASS
		2452	38.24	2432.80	2471.04	0.5	PASS

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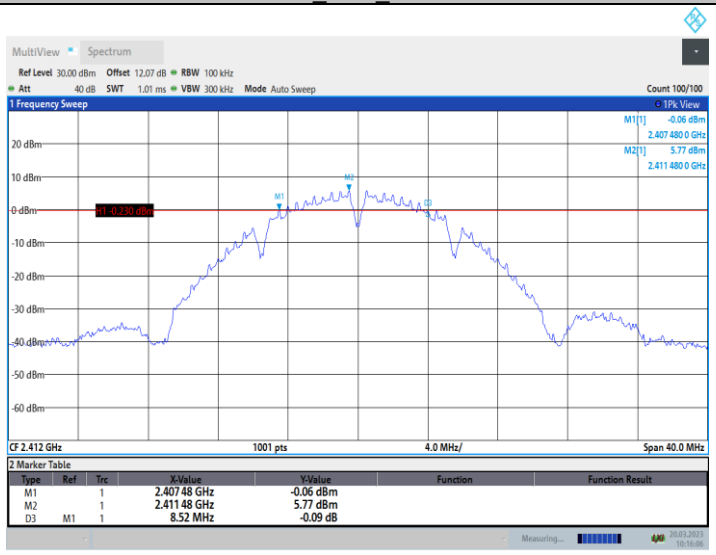

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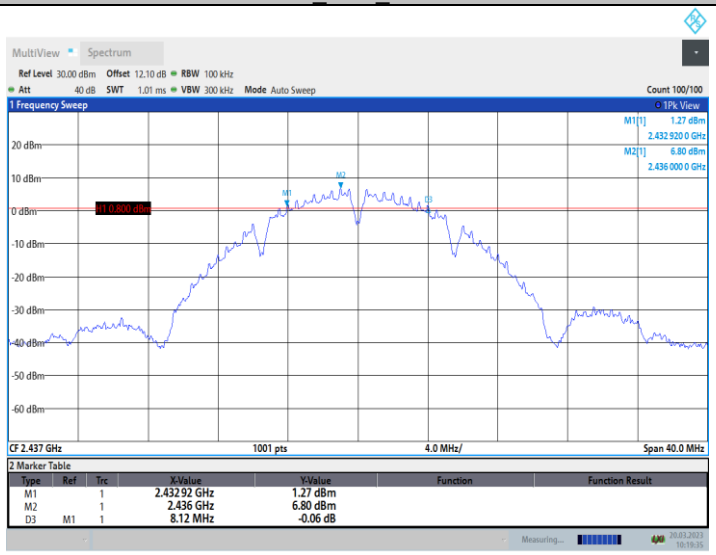

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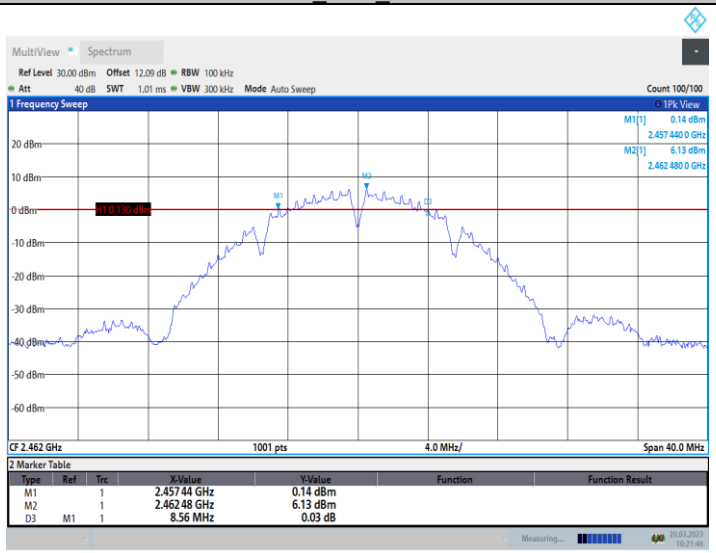 10:21:46 20.03.2023
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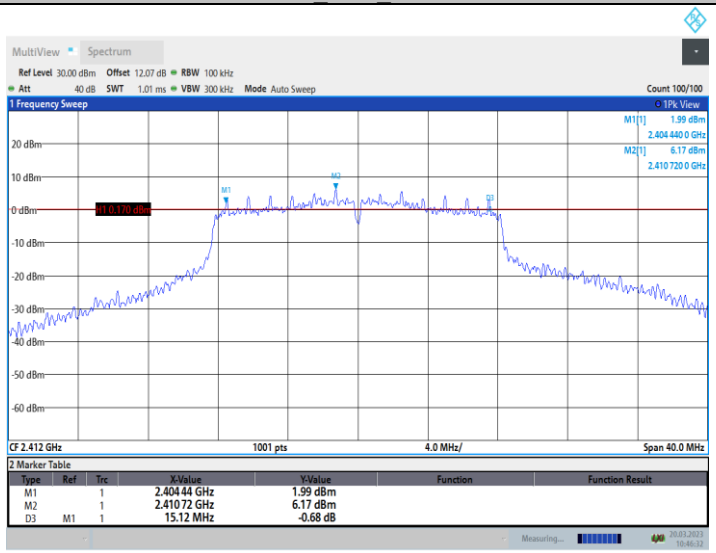 10:46:33 20.03.2023
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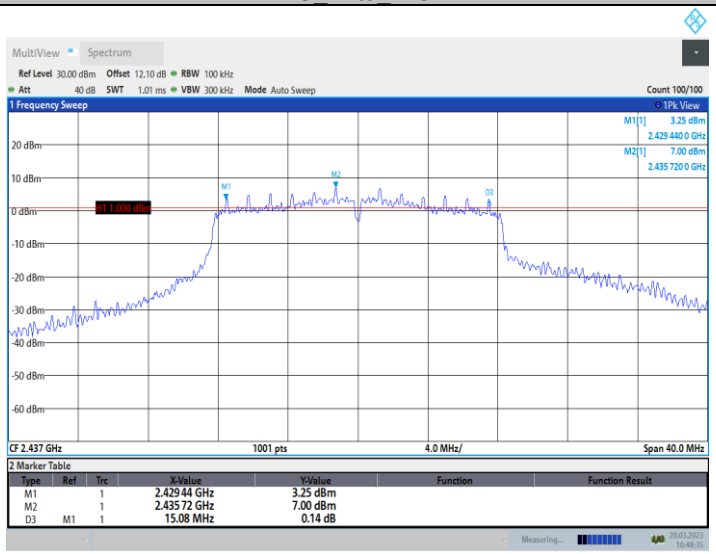 10:48:36 20.03.2023

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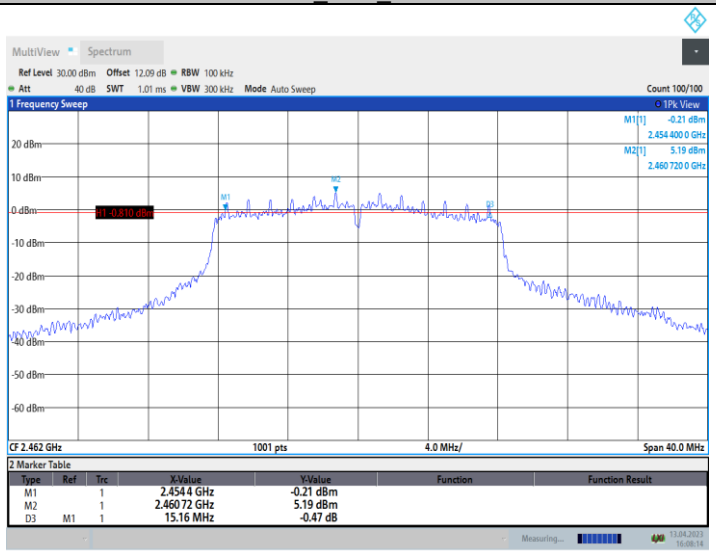

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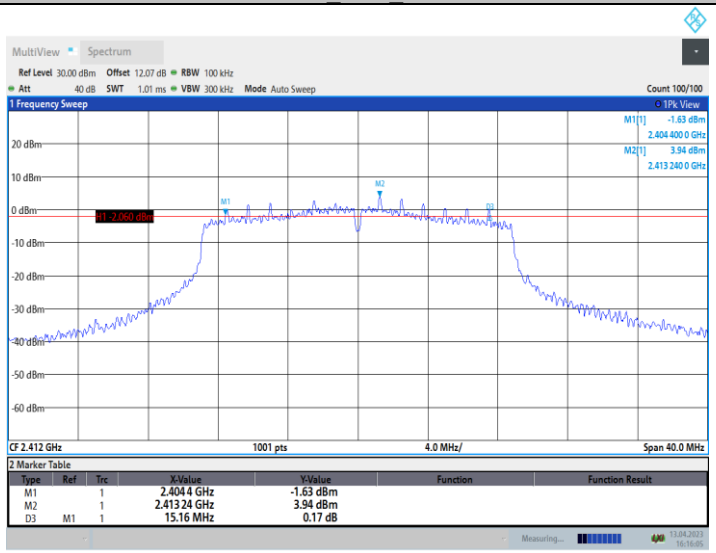

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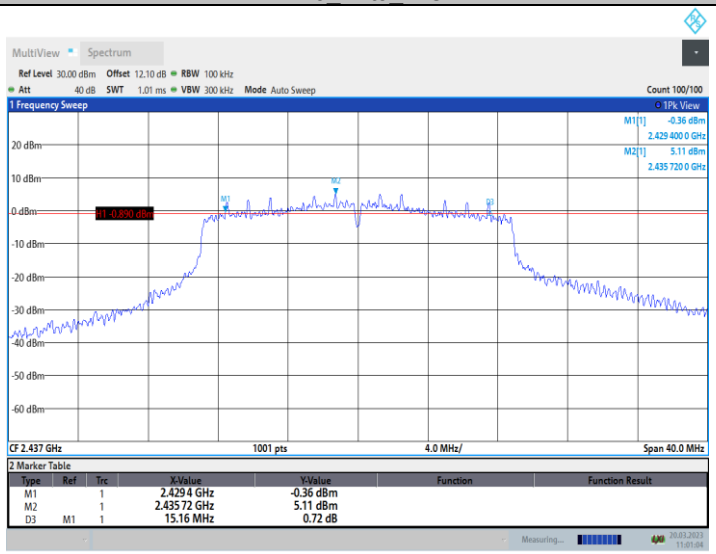

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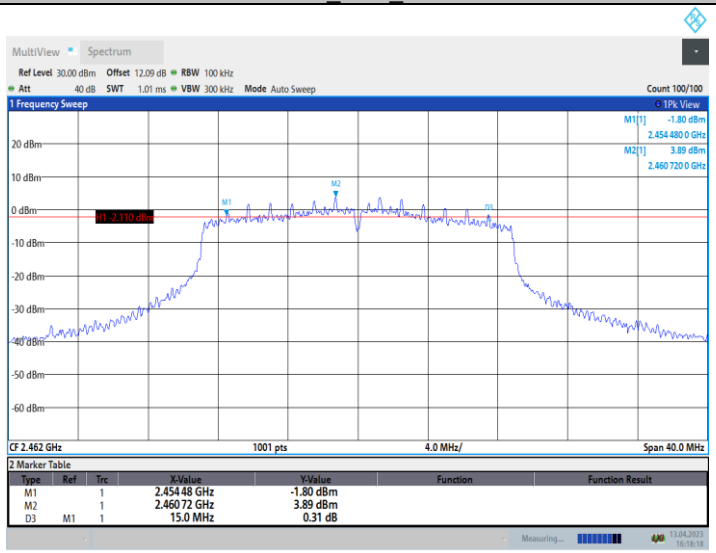 16:18:18 13.04.2023
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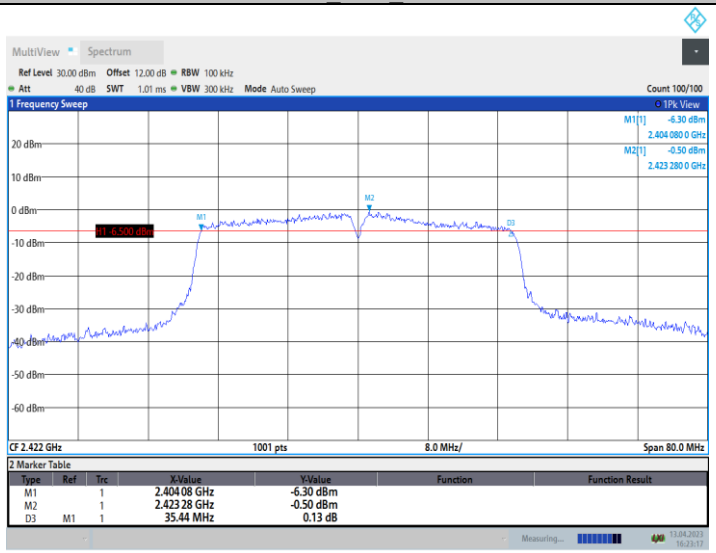 16:23:18 13.04.2023
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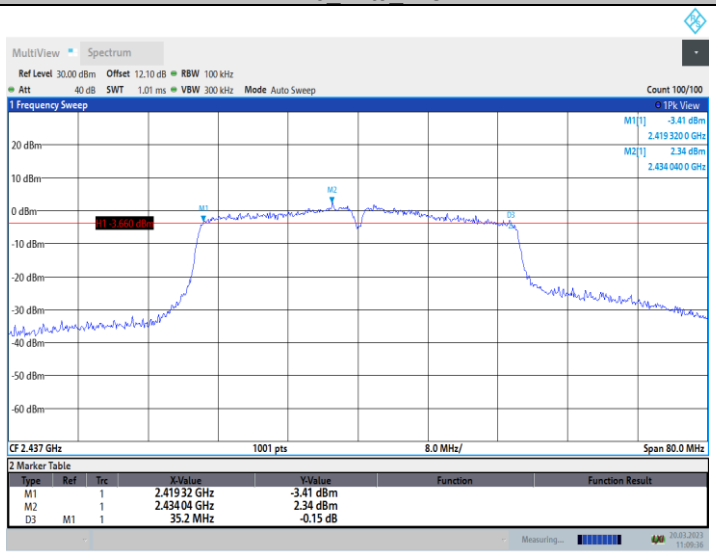 11:09:37 20.03.2023

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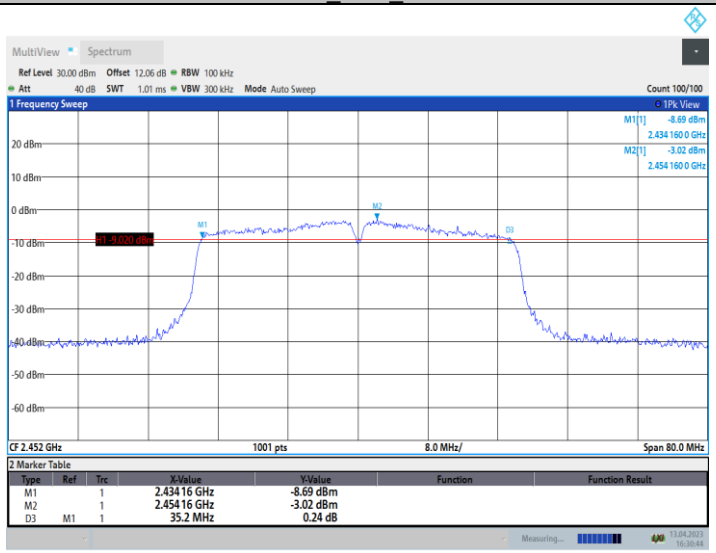
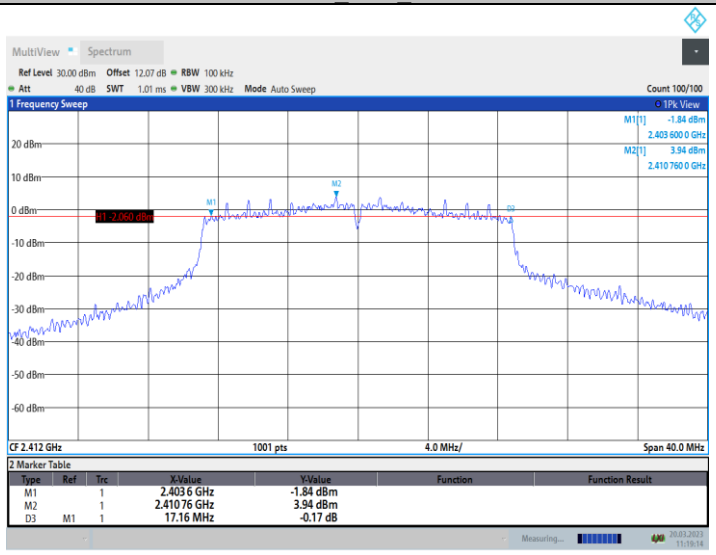
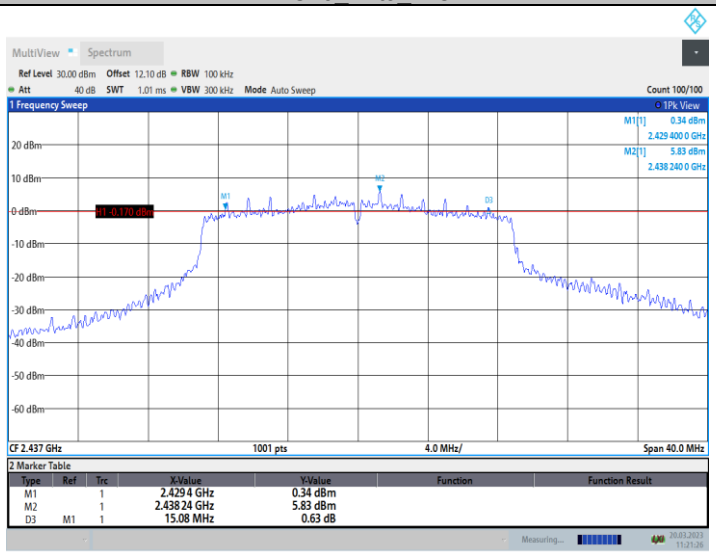
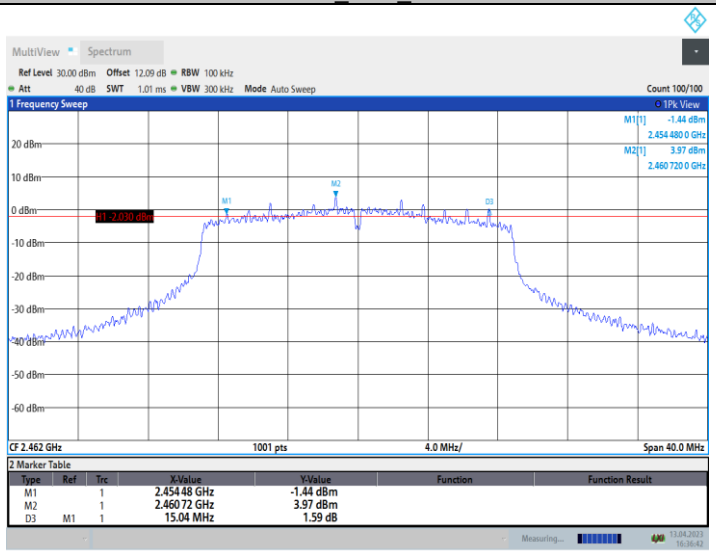
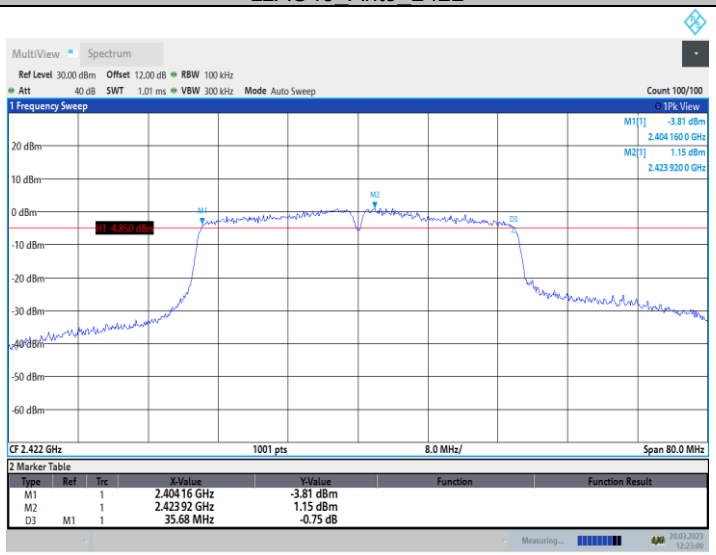
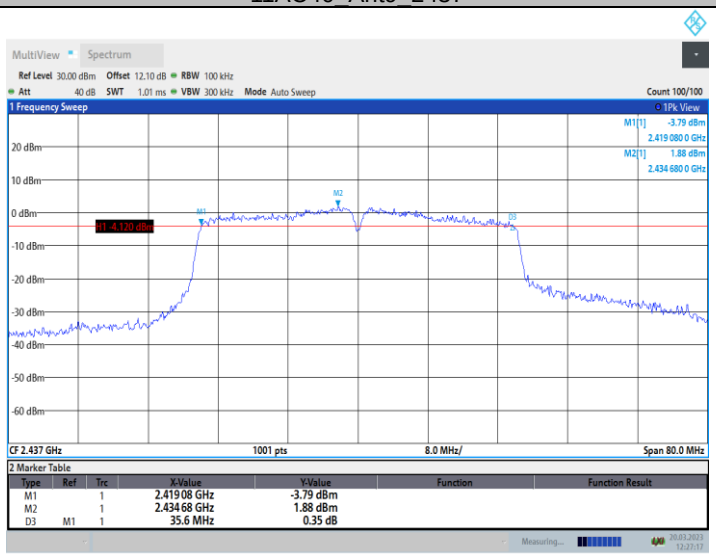
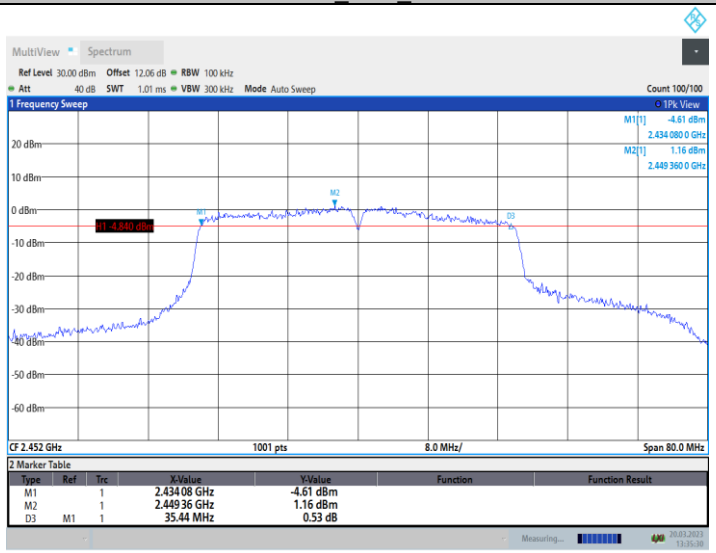

11AC20_Ant9_2412

11AC20_Ant9_2437


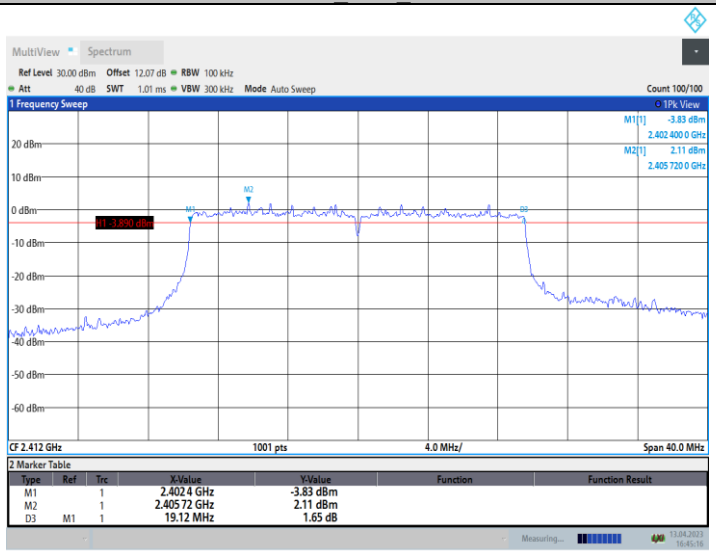
11AC20_Ant9_2462
 16:36:43 13.04.2023
11AC40_Ant9_2422
 12:23:00 20.03.2023
11AC40_Ant9_2437
 12:27:18 20.03.2023

11AC40_Ant9_2452



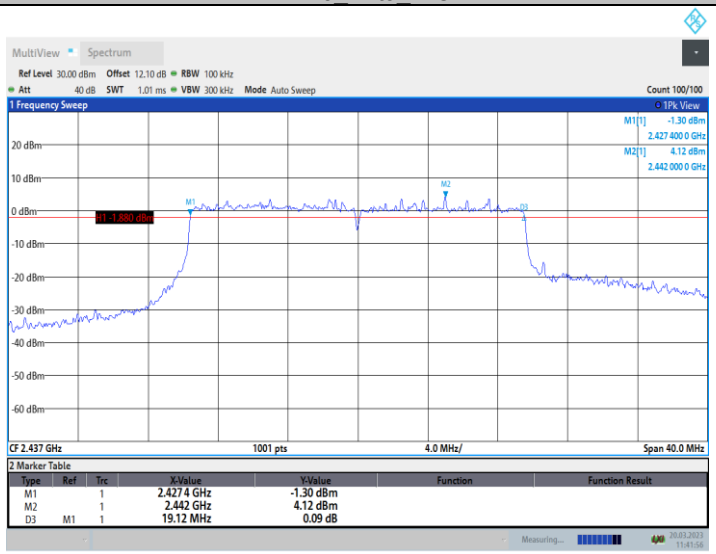
13:35:30 20.03.2023

11AX20_Ant9_2412

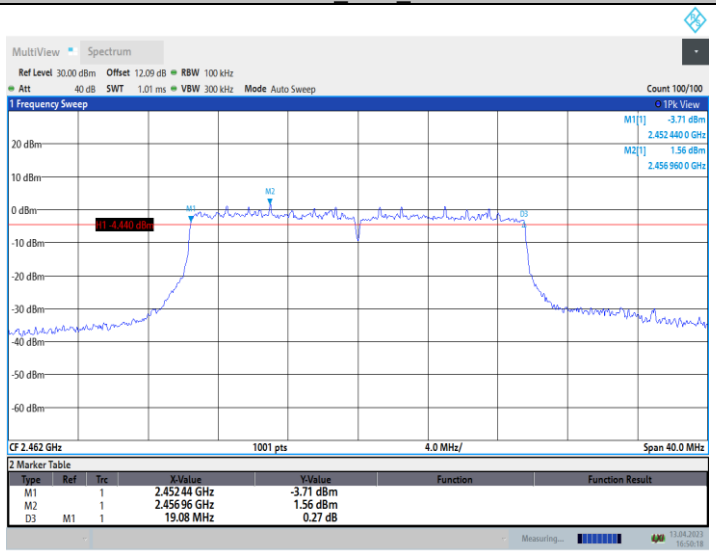
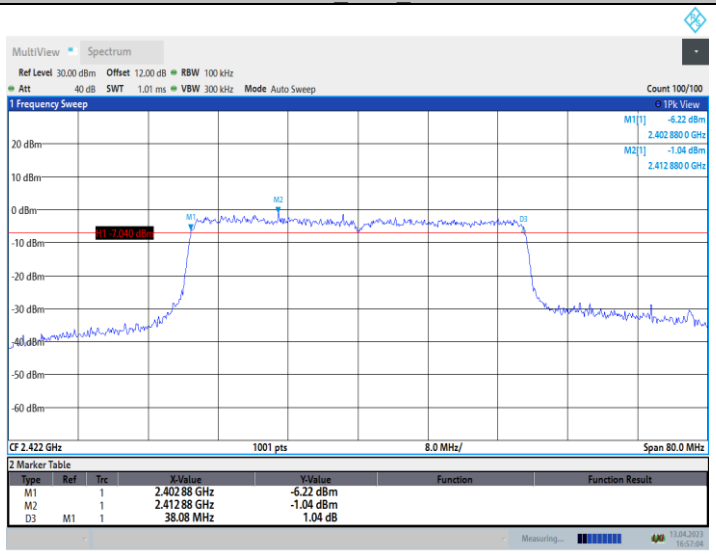
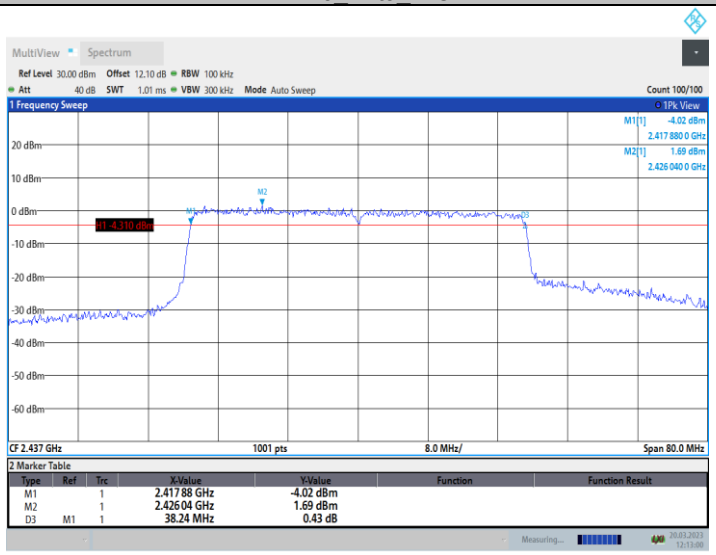


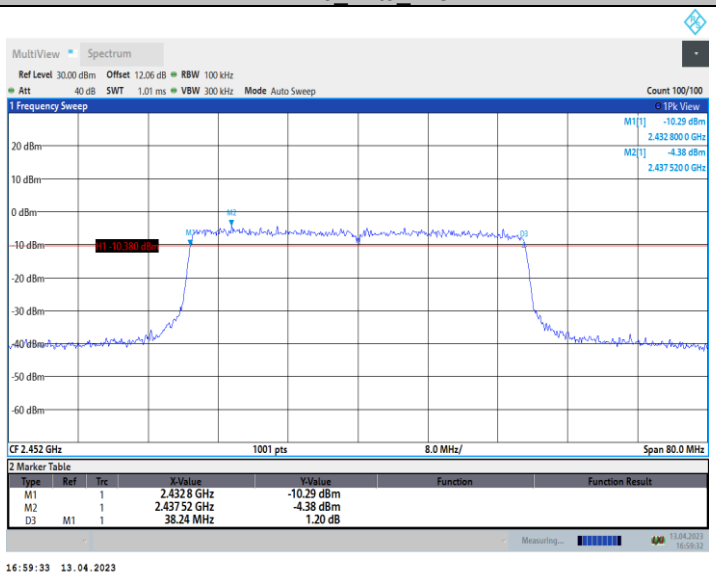
16:45:17 13.04.2023

11AX20_Ant9_2437

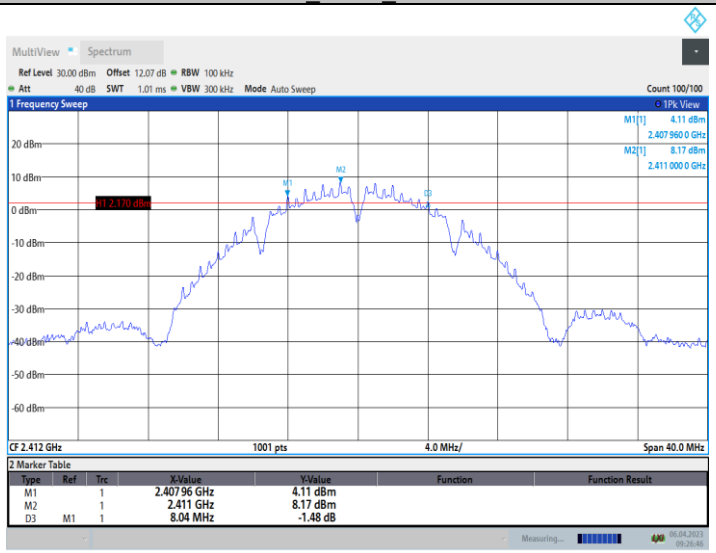
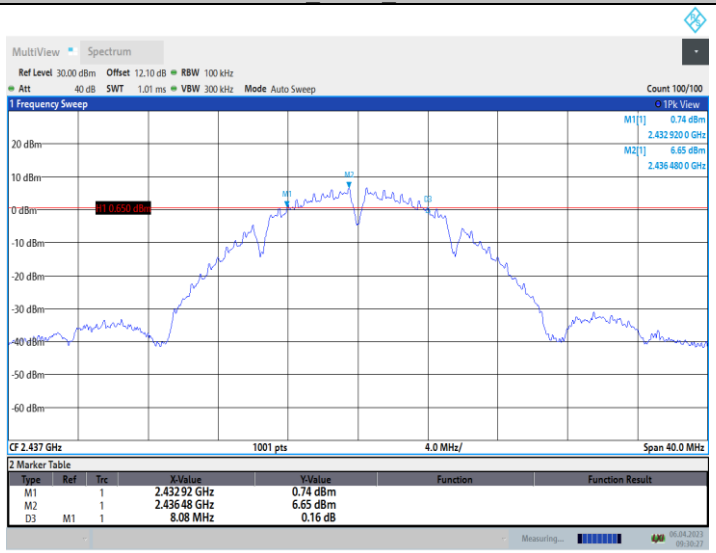
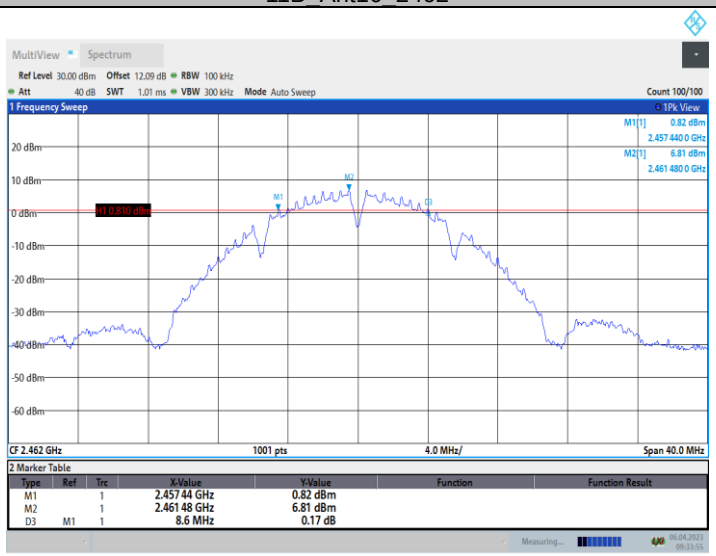


11:41:56 20.03.2023

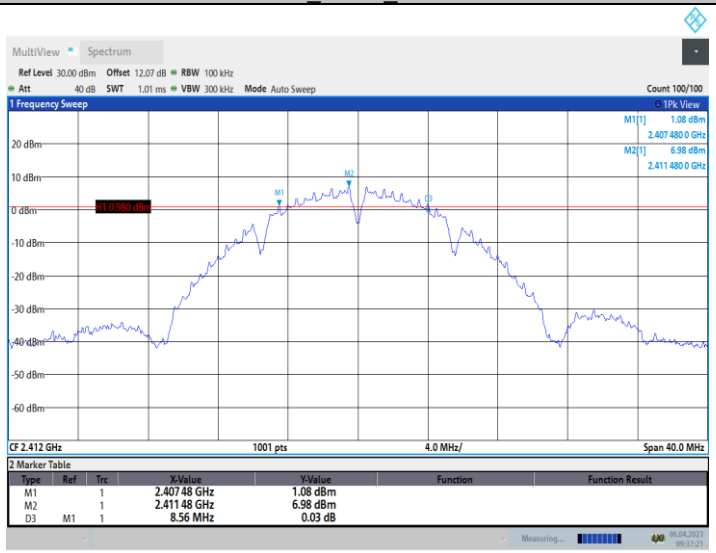
11AX20_Ant9_2462

11AX40_Ant9_2422

11AX40_Ant9_2437


11AX40_Ant9_2452


TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant10	2412	8.04	2407.96	2416.00	0.5	PASS
		2437	8.08	2432.92	2441.00	0.5	PASS
		2462	8.60	2457.44	2466.04	0.5	PASS
11G	Ant10	2412	8.56	2407.48	2416.04	0.5	PASS
		2437	7.60	2432.96	2440.56	0.5	PASS
		2462	15.16	2454.40	2469.56	0.5	PASS
11N20	Ant10	2412	15.16	2404.40	2419.56	0.5	PASS
		2437	15.16	2429.40	2444.56	0.5	PASS
		2462	13.84	2455.72	2469.56	0.5	PASS
11N40	Ant10	2422	35.84	2403.92	2439.76	0.5	PASS
		2437	35.52	2419.16	2454.68	0.5	PASS
		2452	35.44	2434.08	2469.52	0.5	PASS
11AC20	Ant10	2412	15.16	2404.40	2419.56	0.5	PASS
		2437	15.04	2429.44	2444.48	0.5	PASS
		2462	15.08	2454.48	2469.56	0.5	PASS
11AC40	Ant10	2422	35.84	2404.08	2439.92	0.5	PASS
		2437	35.60	2419.08	2454.68	0.5	PASS
		2452	32.64	2434.48	2467.12	0.5	PASS
11AX20	Ant10	2412	19.08	2402.44	2421.52	0.5	PASS
		2437	19.12	2427.40	2446.52	0.5	PASS
		2462	19.08	2452.44	2471.52	0.5	PASS
11AX40	Ant10	2422	38.08	2402.96	2441.04	0.5	PASS
		2437	38.24	2417.88	2456.12	0.5	PASS
		2452	38.24	2432.80	2471.04	0.5	PASS

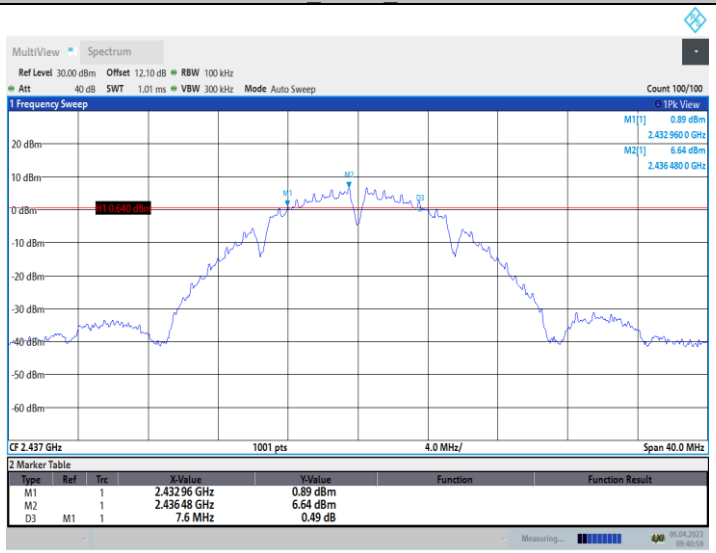
11B_Ant10_2412
 09:26:46 06.04.2023
11B_Ant10_2437
 09:30:27 06.04.2023
11B_Ant10_2462
 09:33:56 06.04.2023

11G_Ant10_2412



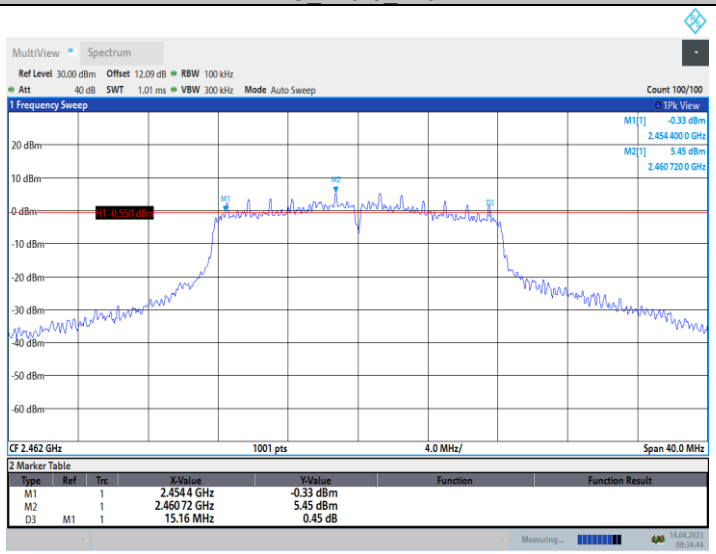
09:37:22 06.04.2023

11G_Ant10_2437



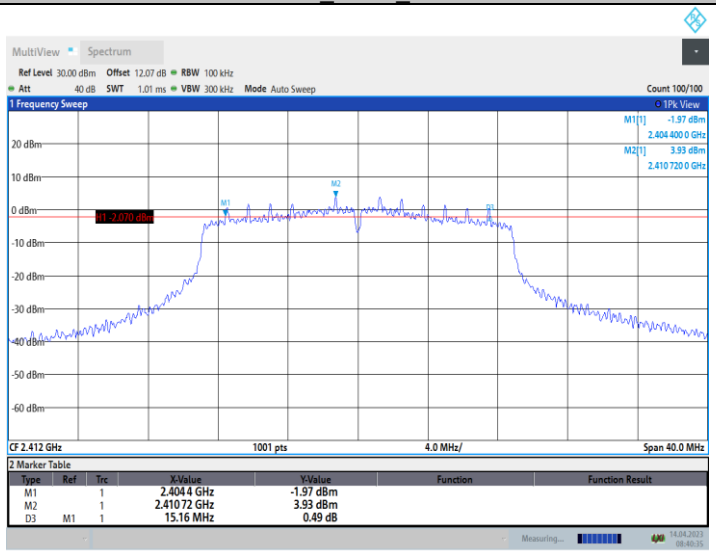
09:40:59 06.04.2023

11G_Ant10_2462



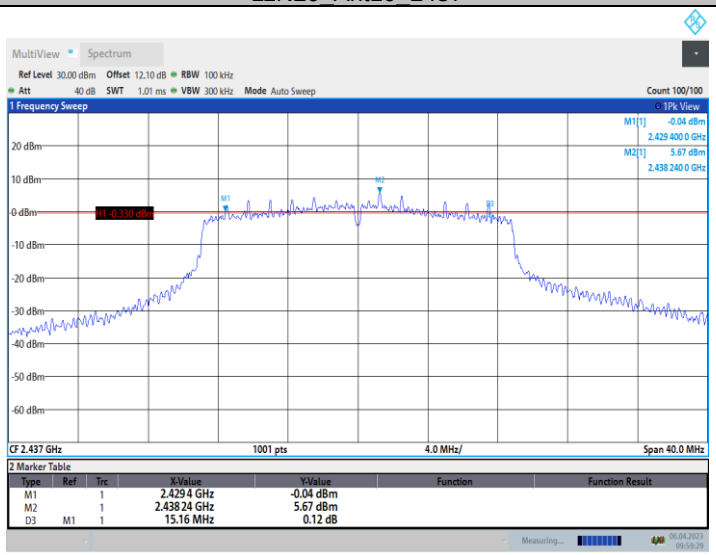
08:34:45 14.04.2023

11N20_Ant10_2412



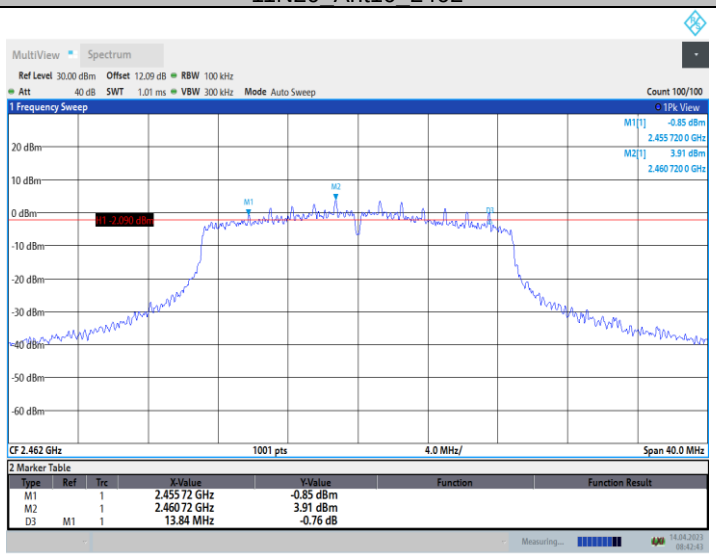
08:40:36 14.04.2023

11N20_Ant10_2437



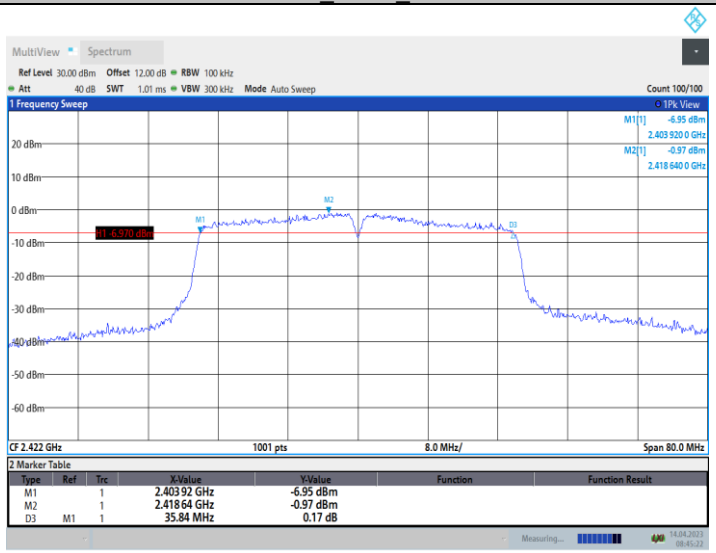
09:59:30 06.04.2023

11N20_Ant10_2462



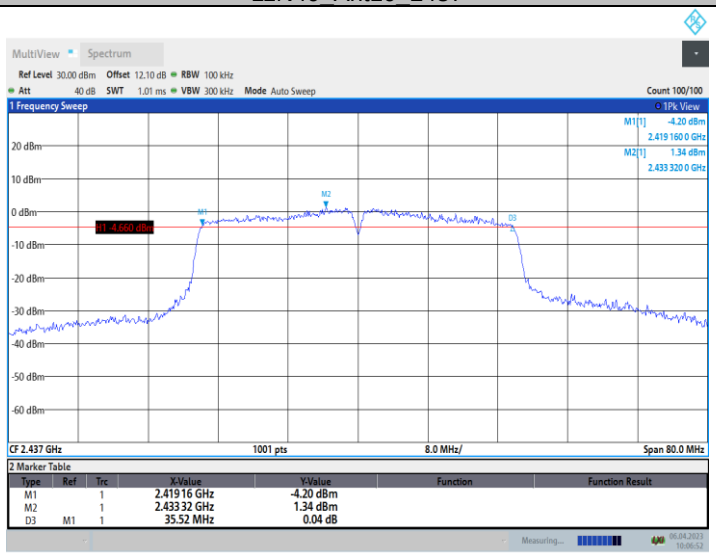
08:42:44 14.04.2023

11N40_Ant10_2422



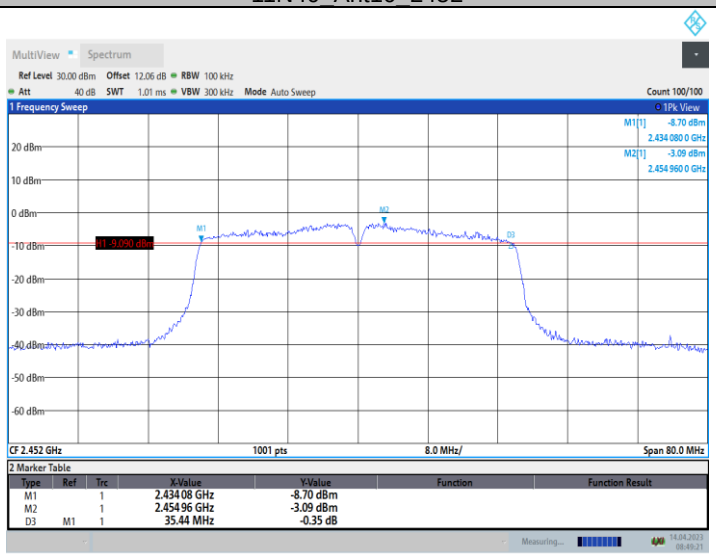
08:45:23 14.04.2023

11N40_Ant10_2437

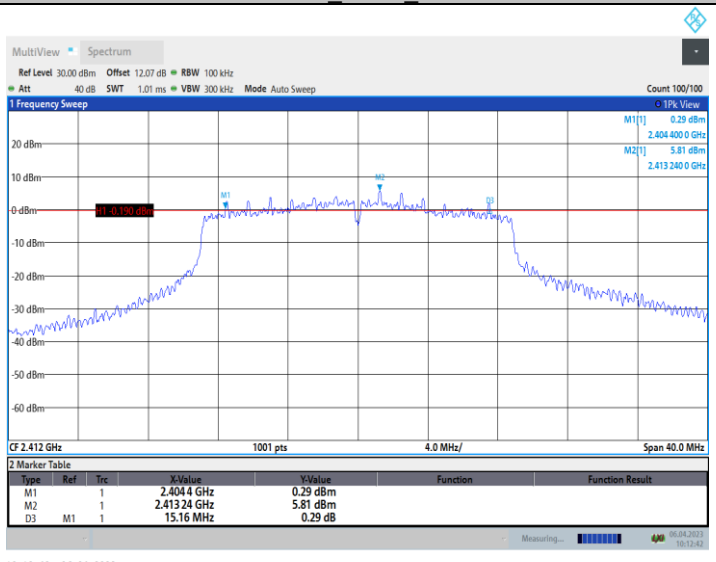
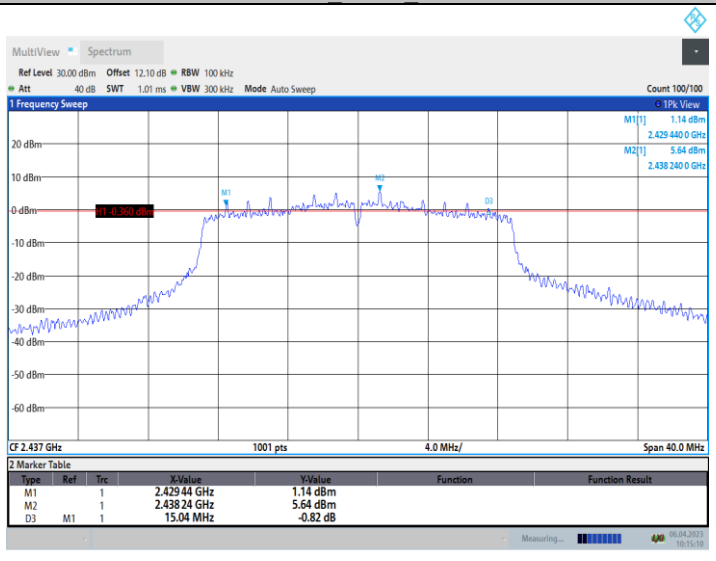
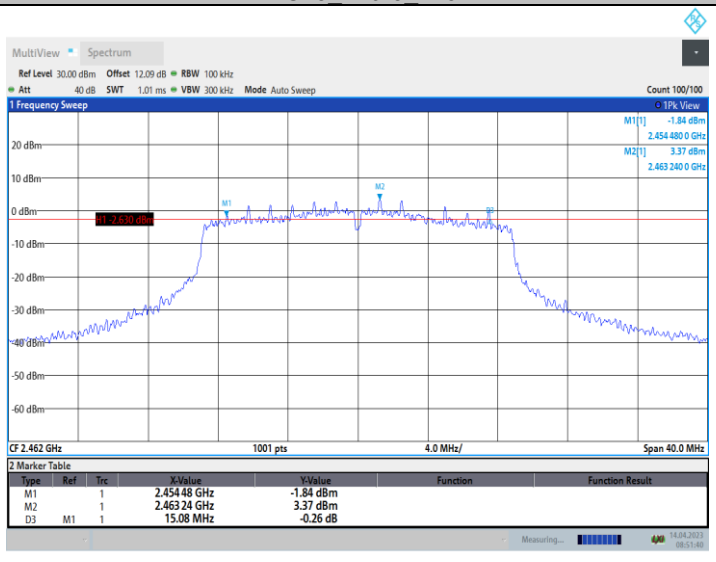


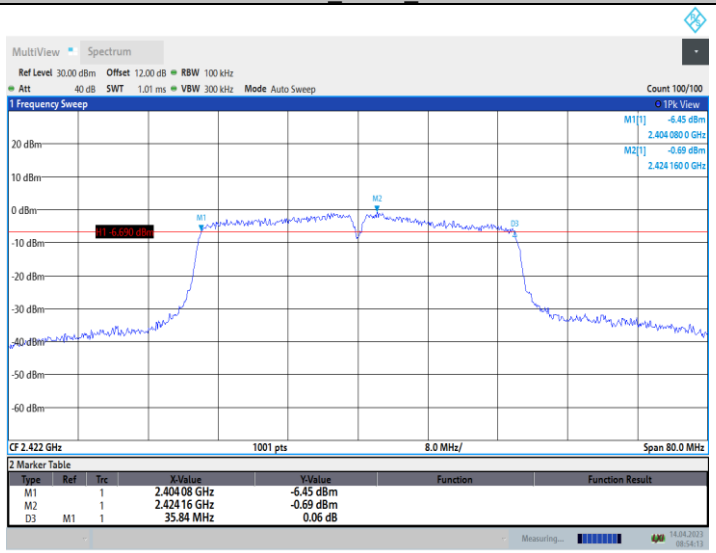
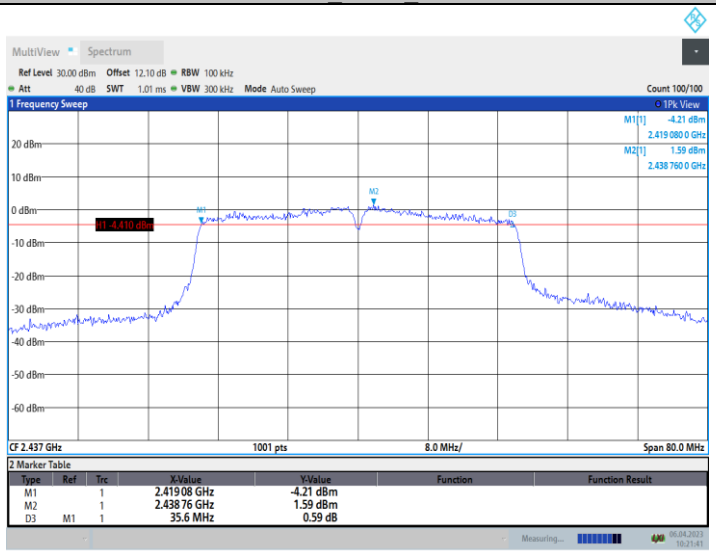
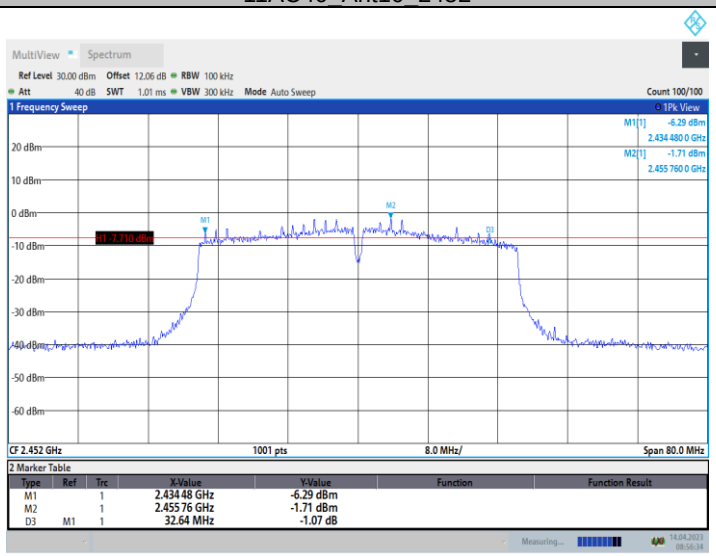
10:06:53 06.04.2023

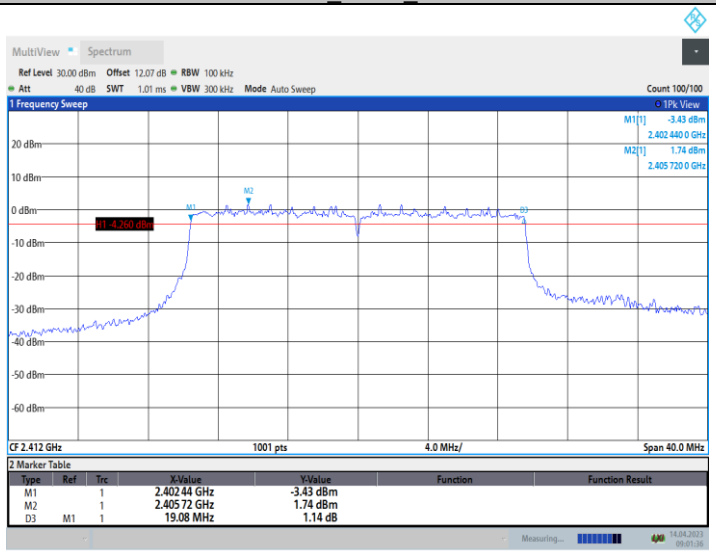
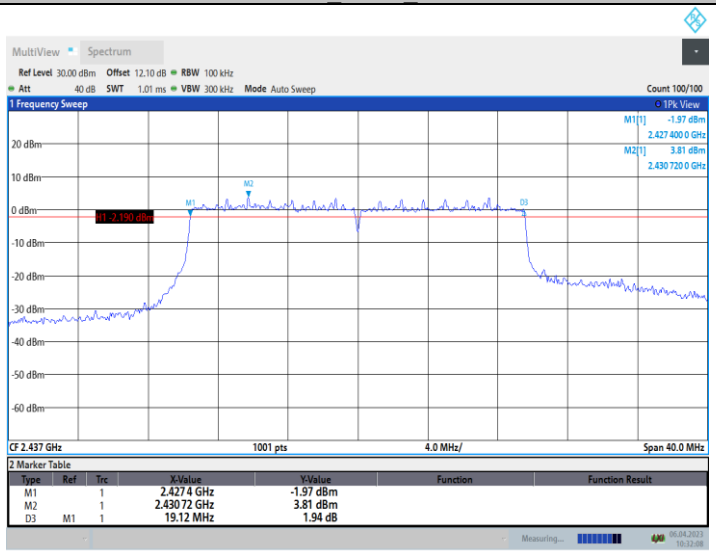
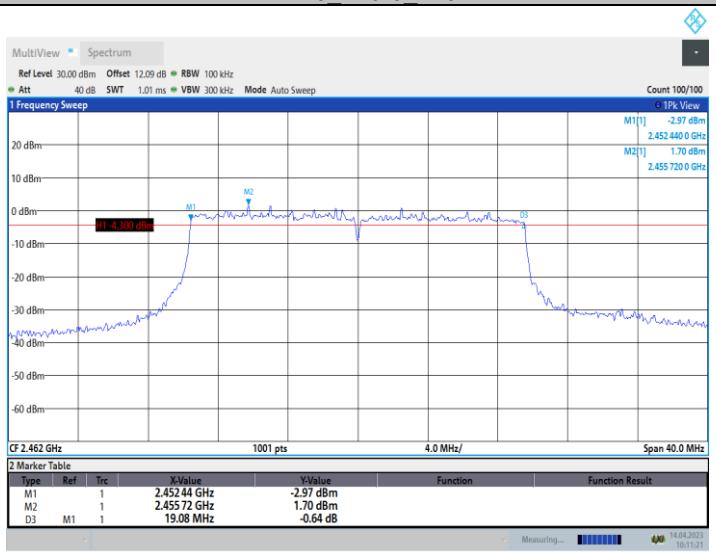
11N40_Ant10_2452

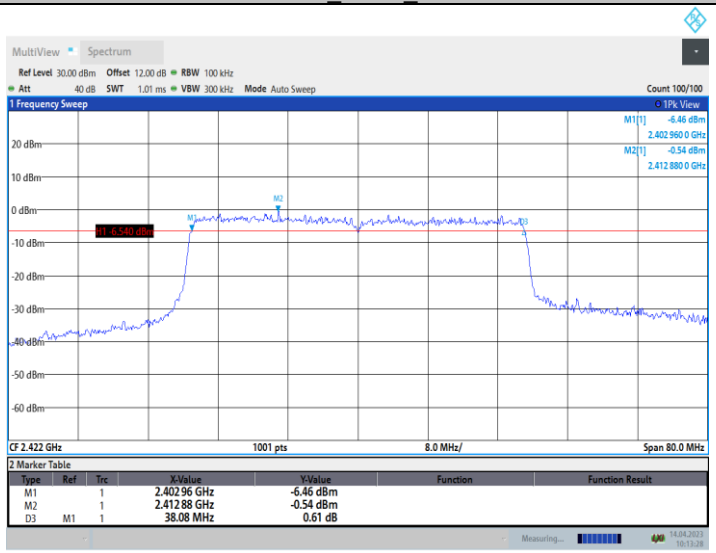
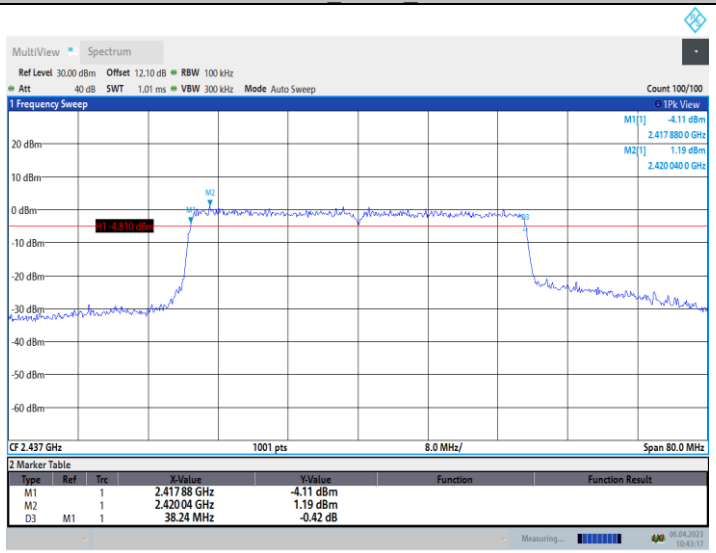
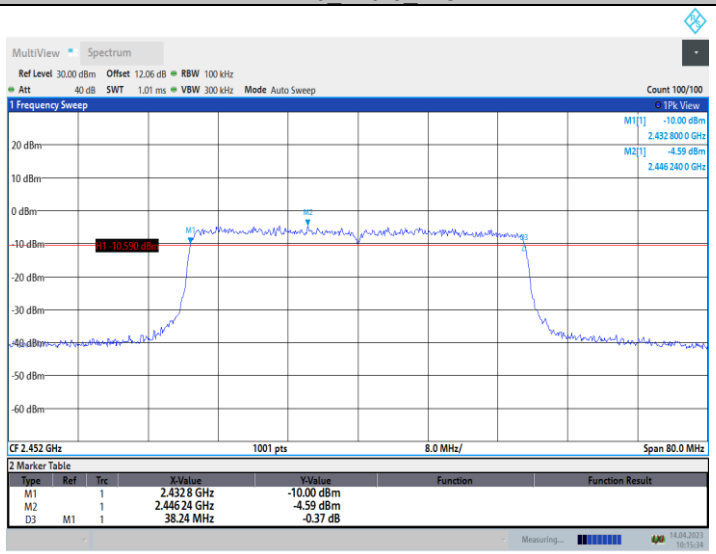


08:49:21 14.04.2023

11AC20_Ant10_2412

11AC20_Ant10_2437

11AC20_Ant10_2462


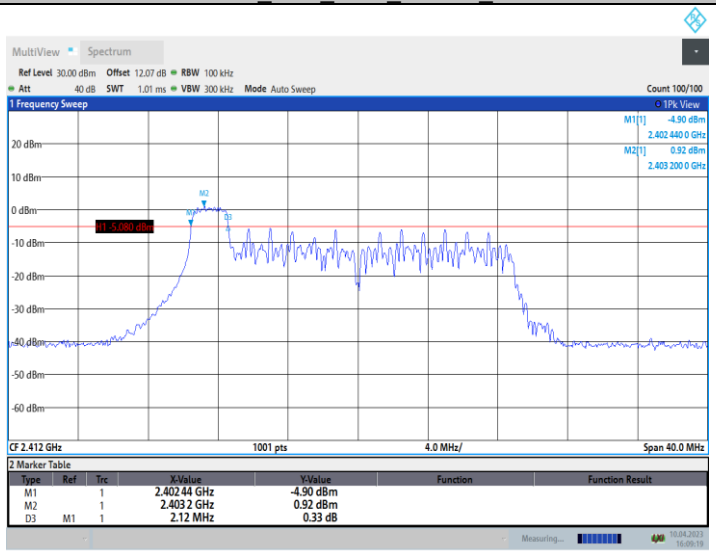
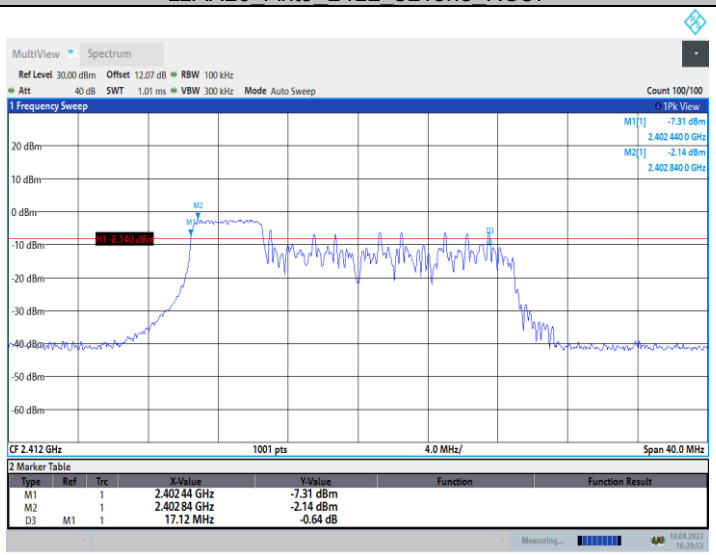
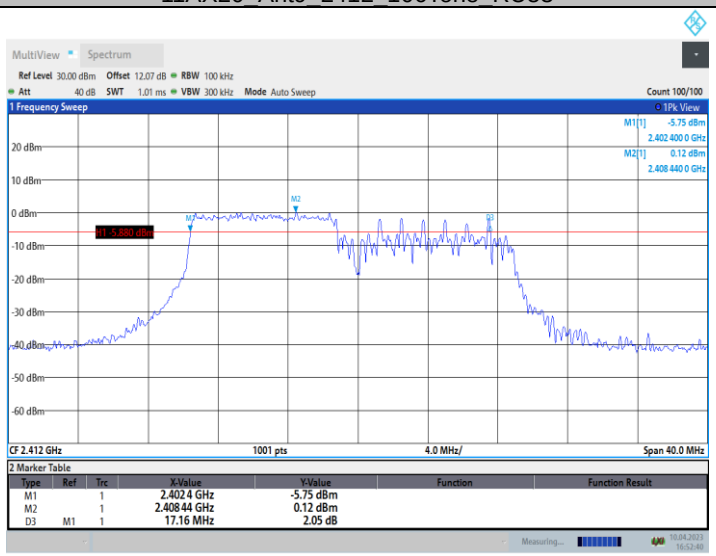
11AC40_Ant10_2422
 08:54:14 14.04.2023
11AC40_Ant10_2437
 10:21:41 06.04.2023
11AC40_Ant10_2452
 08:56:35 14.04.2023

11AX20_Ant10_2412
 09:01:36 14.04.2023
11AX20_Ant10_2437
 10:32:08 06.04.2023
11AX20_Ant10_2462
 10:11:22 14.04.2023

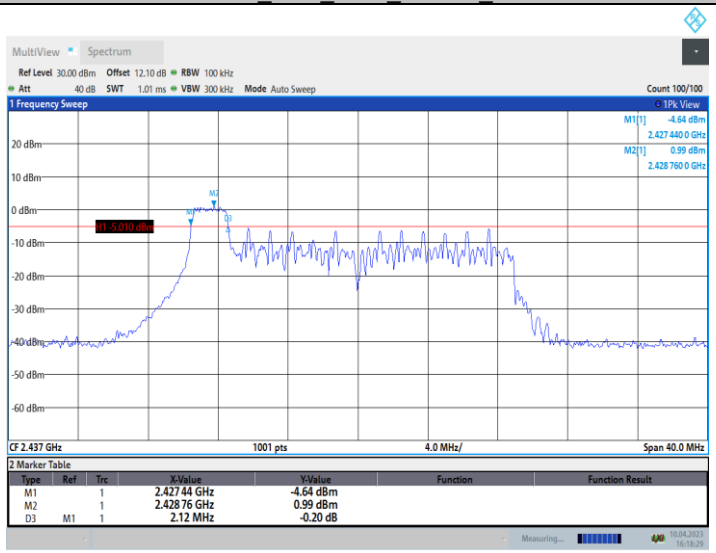
11AX40_Ant10_2422
 10:13:28 14.04.2023
11AX40_Ant10_2437
 10:43:17 06.04.2023
11AX40_Ant10_2452
 10:15:34 14.04.2023

OFDMA Mode:

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20	Ant9	2412	26Tone	RU0	2.12	2402.44	2404.56	0.5	PASS
			52Tone	RU37	17.12	2402.44	2419.56	0.5	PASS
			106Tone	RU53	17.16	2402.40	2419.56	0.5	PASS
		2437	26Tone	RU0	2.12	2427.44	2429.56	0.5	PASS
			52Tone	RU37	17.12	2427.44	2444.56	0.5	PASS
			106Tone	RU53	17.12	2427.44	2444.56	0.5	PASS
		2462	26Tone	RU0	2.12	2452.44	2454.56	0.5	PASS
			52Tone	RU37	17.08	2452.44	2469.52	0.5	PASS
			106Tone	RU53	17.12	2452.40	2469.52	0.5	PASS
11AX40	Ant9	2422	26Tone	RU0	2.24	2402.88	2405.12	0.5	PASS
			52Tone	RU37	4.12	2402.96	2407.08	0.5	PASS
			106Tone	RU53	24.08	2402.92	2427.00	0.5	PASS
			242Tone	RU61	19.04	2402.80	2421.84	0.5	PASS
		2437	26Tone	RU0	2.24	2417.88	2420.12	0.5	PASS
			52Tone	RU37	4.08	2417.96	2422.04	0.5	PASS
			106Tone	RU53	36.60	2417.92	2454.52	0.5	PASS
			242Tone	RU61	18.96	2417.88	2436.84	0.5	PASS
		2452	26Tone	RU0	2.24	2432.88	2435.12	0.5	PASS
			52Tone	RU37	4.08	2432.96	2437.04	0.5	PASS
			106Tone	RU53	34.08	2432.92	2467.00	0.5	PASS
			242Tone	RU61	26.72	2432.80	2459.52	0.5	PASS

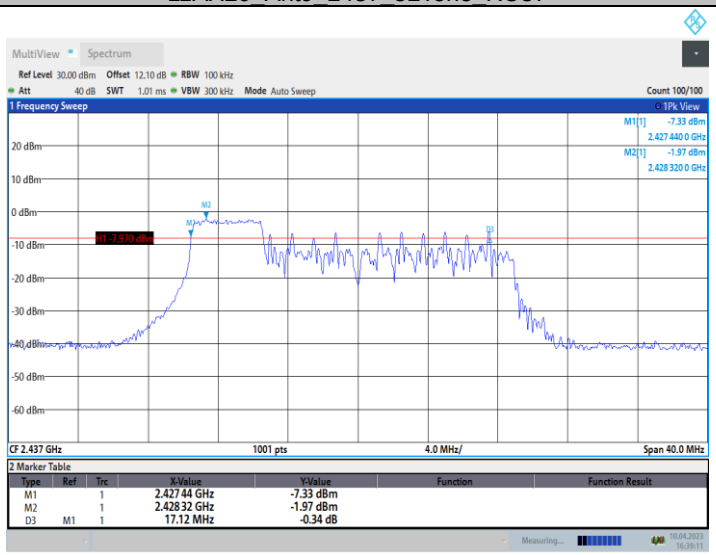
11AX20_Ant9_2412_26Tone_RU0
 16:09:20 10.04.2023
11AX20_Ant9_2412_52Tone_RU37
 16:29:54 10.04.2023
11AX20_Ant9_2412_106Tone_RU53
 16:52:41 10.04.2023

11AX20_Ant9_2437_26Tone_RU0



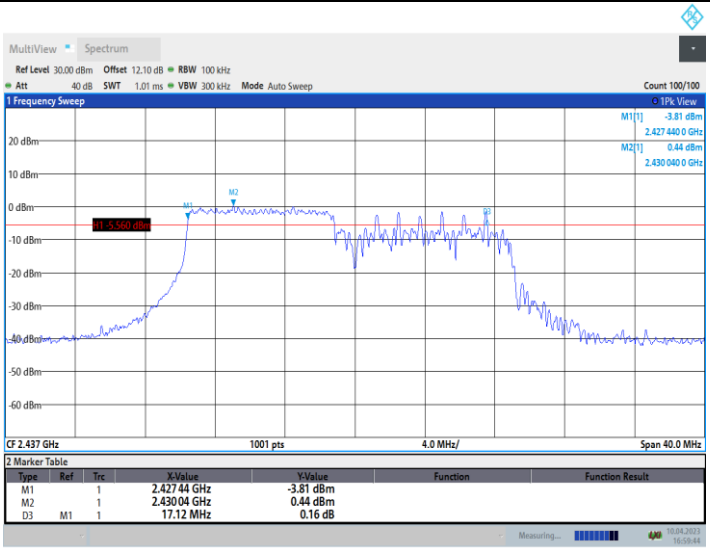
16:18:29 10.04.2023

11AX20_Ant9_2437_52Tone_RU37

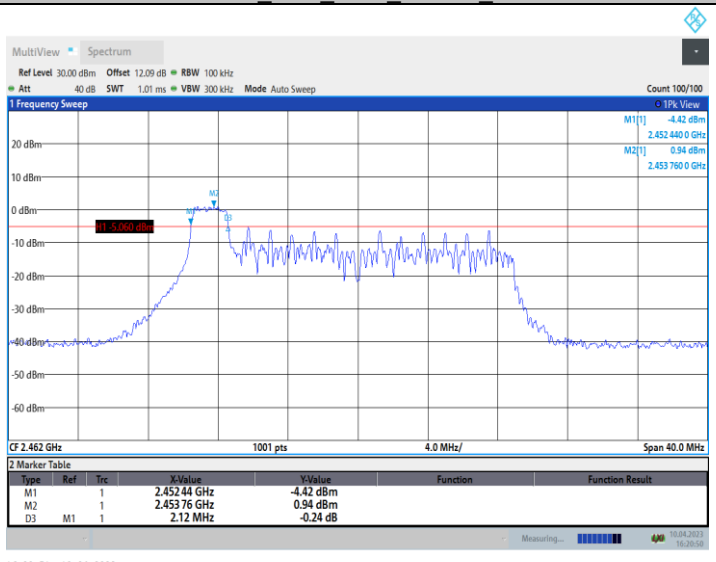
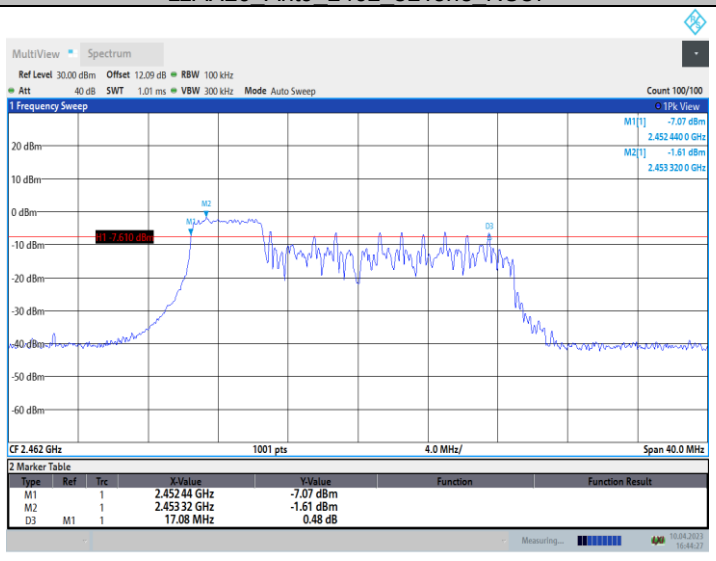
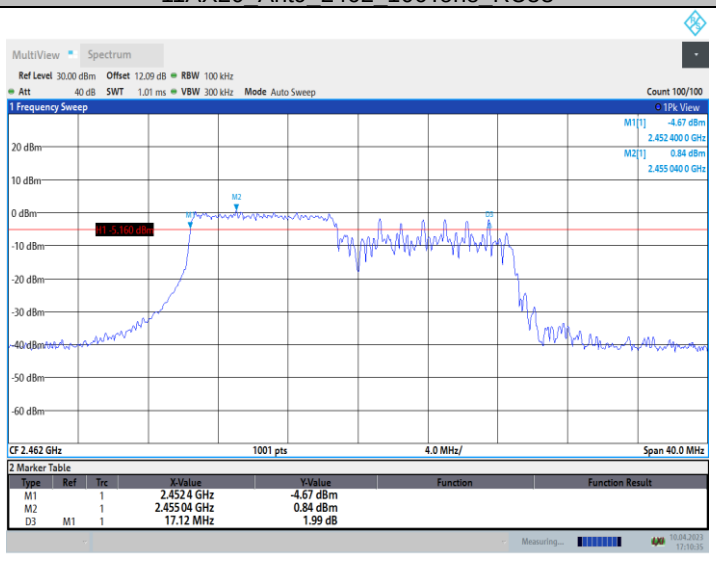


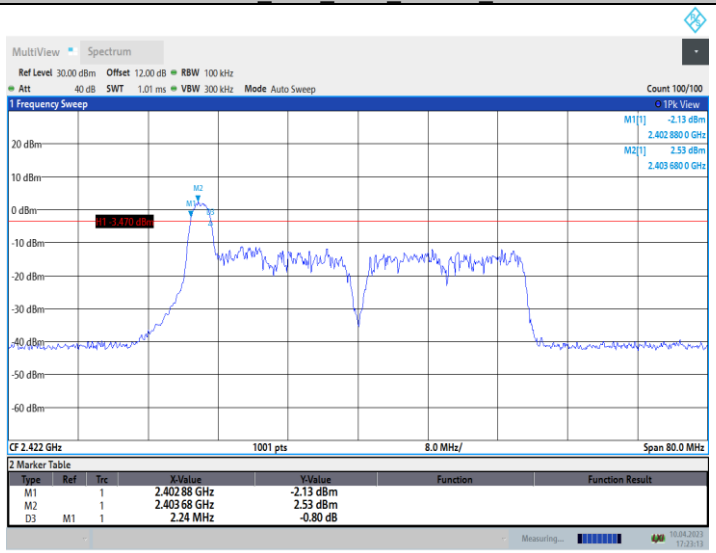
16:39:11 10.04.2023

11AX20_Ant9_2437_106Tone_RU53



16:59:44 10.04.2023

11AX20_Ant9_2462_26Tone_RU0
 16:20:51 10.04.2023
11AX20_Ant9_2462_52Tone_RU37
 16:44:27 10.04.2023
11AX20_Ant9_2462_106Tone_RU53
 17:10:35 10.04.2023

11AX40_Ant9_2422_26Tone_RU0

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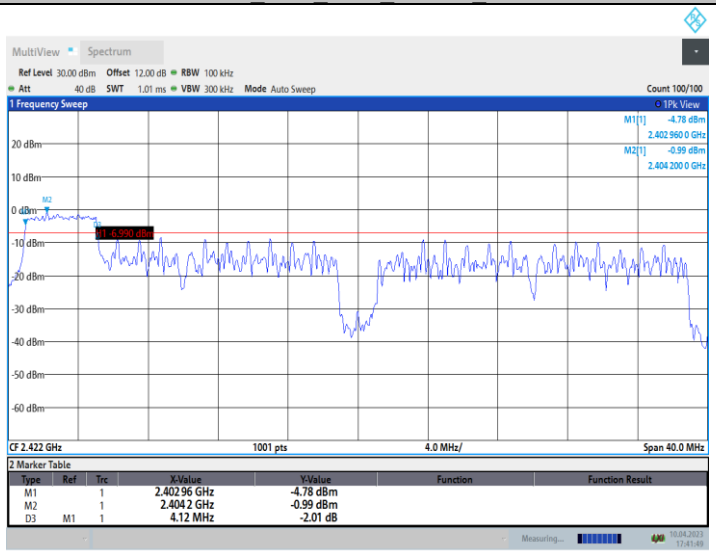
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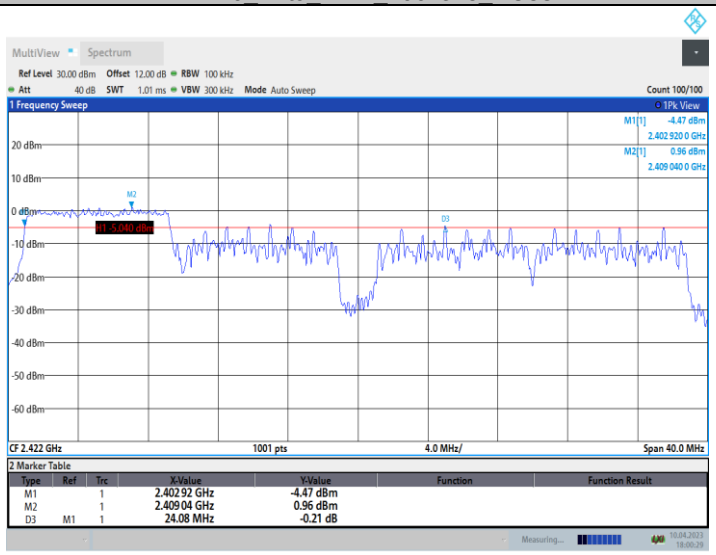
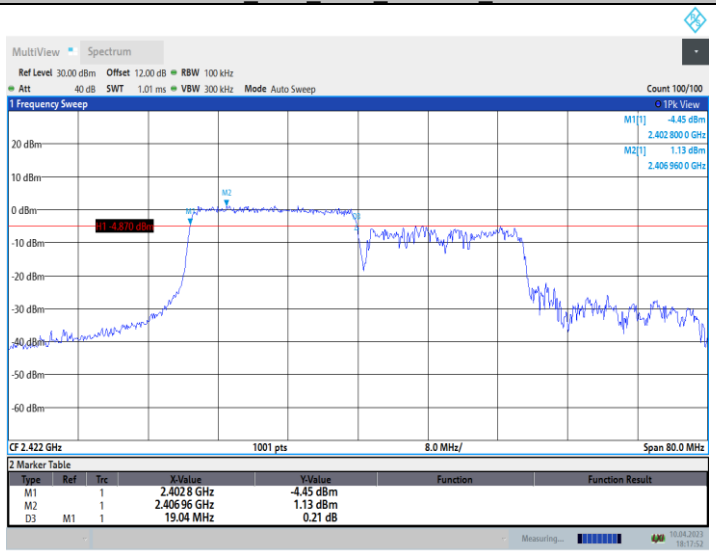
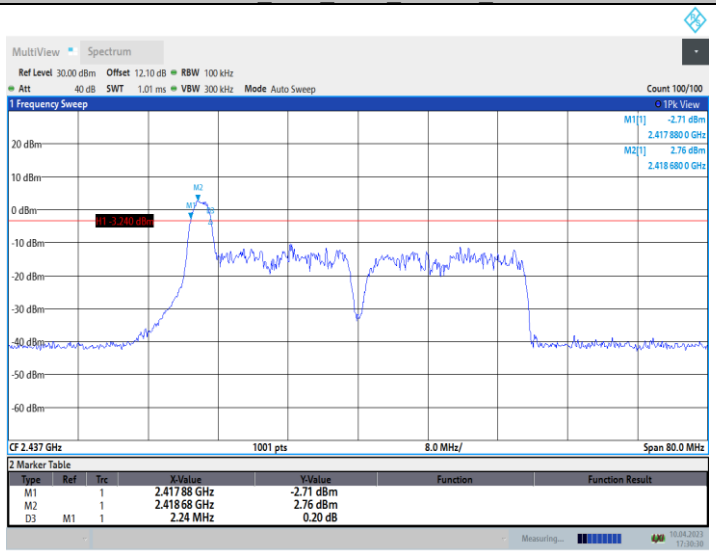


11AX40_Ant9_2422_242Tone_RU61



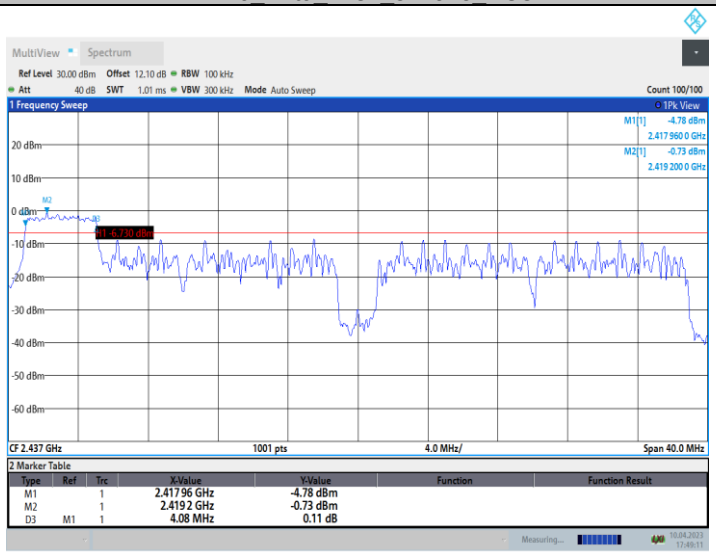
18:17:52 10.04.2023

11AX40_Ant9_2437_26Tone_RU0

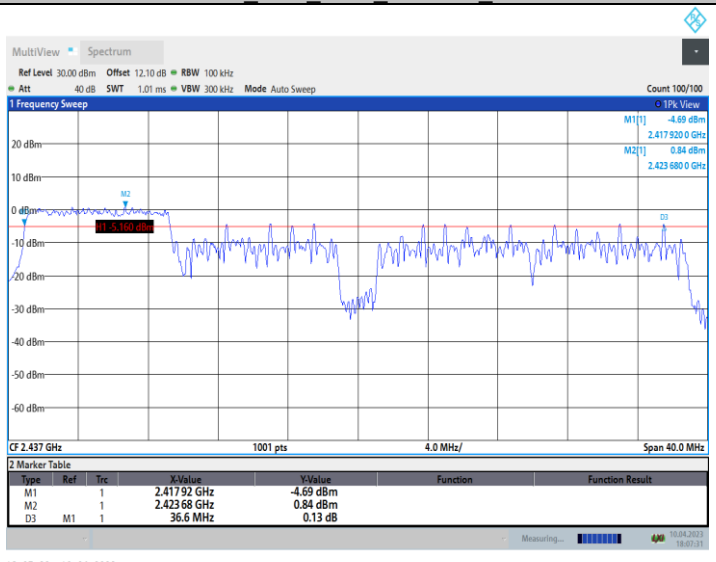


17:30:31 10.04.2023

11AX40_Ant9_2437_52Tone_RU37



17:49:11 10.04.2023

11AX40_Ant9_2437_106Tone_RU53
 18:07:32 10.04.2023
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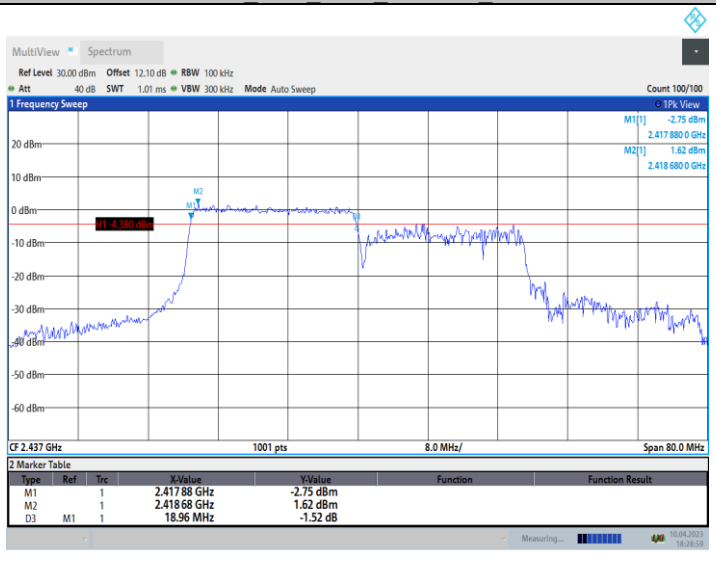 18:28:59 10.04.2023
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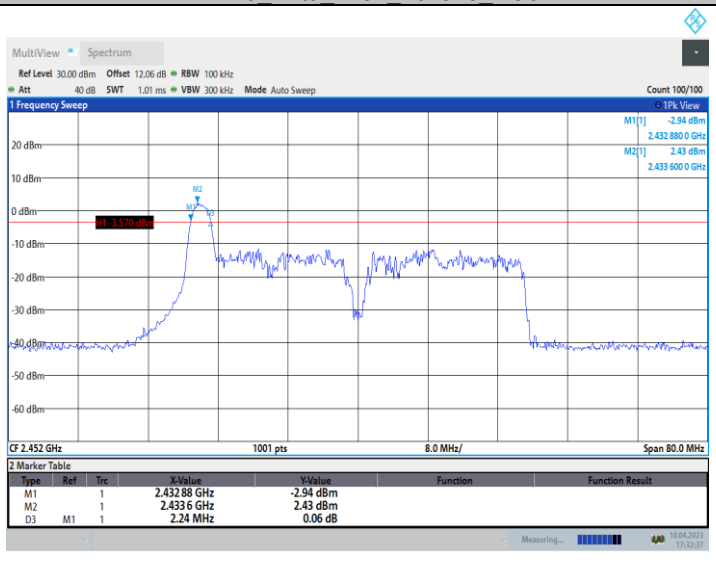 17:32:37 10.04.2023

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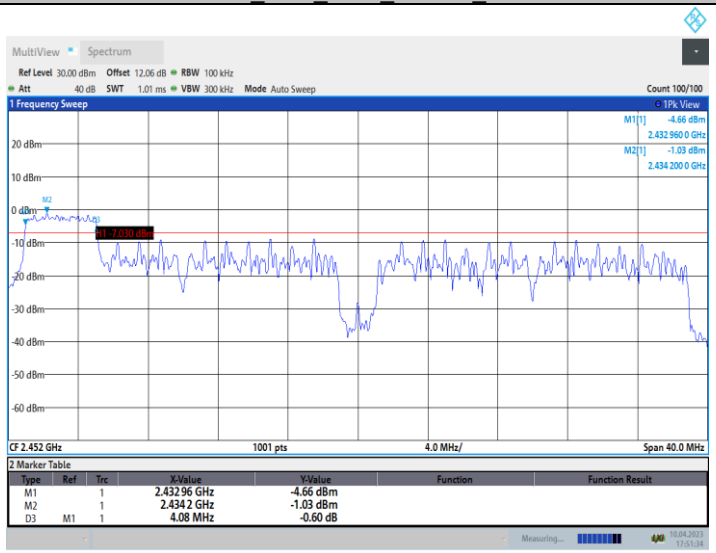
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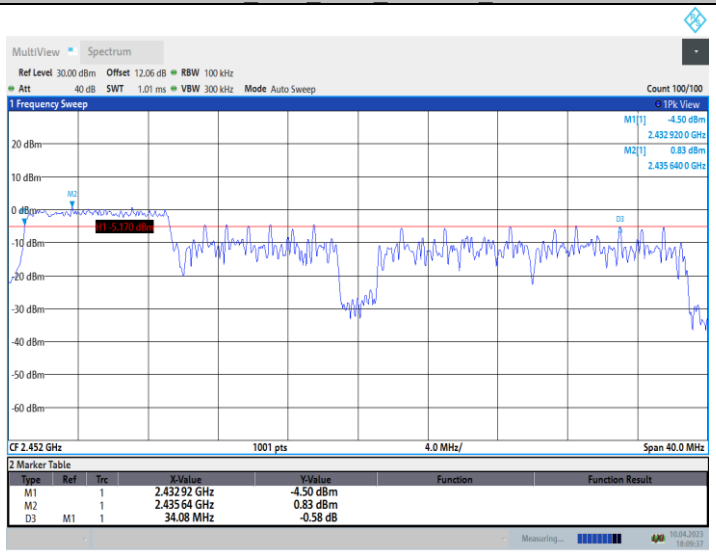
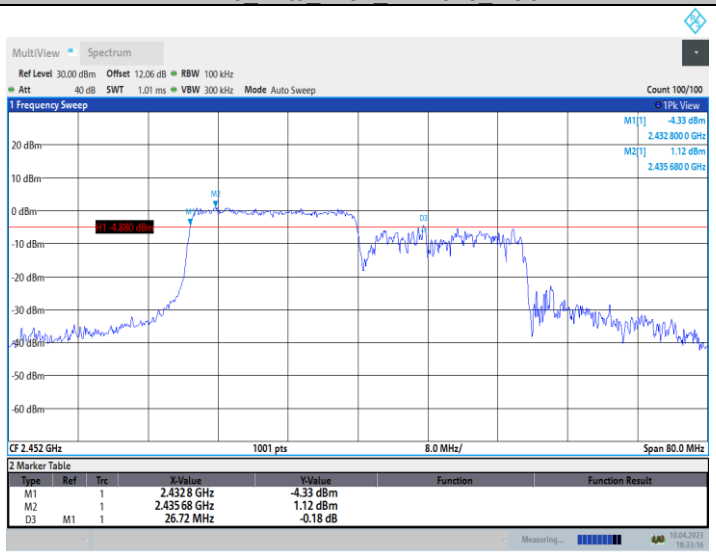

11AX40_Ant9_2452_242Tone_RU61


OFDMA Mode:

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20	Ant10	2412	26Tone	RU0	2.12	2402.44	2404.56	0.5	PASS
			52Tone	RU37	17.08	2402.44	2419.52	0.5	PASS
			106Tone	RU53	17.12	2402.44	2419.56	0.5	PASS
		2437	26Tone	RU0	2.12	2427.44	2429.56	0.5	PASS
			52Tone	RU37	17.08	2427.44	2444.52	0.5	PASS
			106Tone	RU53	17.12	2427.44	2444.56	0.5	PASS
		2462	26Tone	RU0	2.08	2452.44	2454.52	0.5	PASS
			52Tone	RU37	17.08	2452.44	2469.52	0.5	PASS
			106Tone	RU53	17.16	2452.40	2469.56	0.5	PASS
11AX40	Ant10	2422	26Tone	RU0	2.24	2402.88	2405.12	0.5	PASS
			52Tone	RU37	4.08	2402.96	2407.04	0.5	PASS
			106Tone	RU53	34.04	2402.96	2437.00	0.5	PASS
		2437	26Tone	RU0	2.24	2417.88	2420.12	0.5	PASS
			52Tone	RU37	4.08	2417.96	2422.04	0.5	PASS
			106Tone	RU53	34.12	2417.92	2452.04	0.5	PASS
		2452	26Tone	RU0	2.40	2432.80	2435.20	0.5	PASS
			52Tone	RU37	4.12	2432.92	2437.04	0.5	PASS
			106Tone	RU53	27.76	2432.96	2460.72	0.5	PASS