FCC TEST REPORT

For

Anker SOLIX Home Power Panel

Model Number: A17B1

FCC ID: 2AOKB-A17B1

Report Number : WT238001947

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

No	Date	Remark
V1.0	2023.12.29	Initial issue

TEST REPORT DECLARATION

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HONG KONG
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HONG KONG
EUT Description	:	Anker SOLIX Home Power Panel
Model No.	:	A17B1
Trade mark	:	Anker
FCC ID	:	2AOKB-A17B1

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:	Dec.29, 2023
Checked by:	万晓婧 (Wan Xiaojing 万晓婧)	Date:	Dec.29, 2023
Approved by:	林奕翔 (Lin Yixiang 林奕翔)	Date:	Dec.29, 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	:	Anker SOLIX Home Power Panel
Manufacturer	:	Anker Innovations Limited
Model Number	:	A17B1
Operate Frequency	:	2.412GHz~2.462GHz
Antenna Designation	:	2.4G rubber stick double copper tube antenna: 4.24dBi
Operating voltage	:	120/ 240Vac 60Hz

Remark: /

WLAN:

Table 2 Working Frequencies Lists (802.11b, 802.11g, 802.11n HT20)

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	---	---

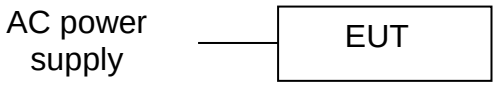
Table 3 Working Frequencies Lists (802.11n HT40)

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: **2AOKB-A17B1** 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

3.5. Directional Antenna Gain

Not available for this EUT intended for grant.

3.6. Support Equipment List

Table 4 Support Equipment List

Name	Model No.	S/N	Manufacturer
Notebook	HSN-Q15C	5CD9361KR6	HP

3.7. Test Conditions

Date of test: Nov.27, 2023- Dec.21, 2023
Date of EUT Receive: Nov.09, 2023
Temperature: 21℃-26℃
Relative Humidity: 40%-50%

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
SB16469	EMI Test Receiver	R&S	ESR7	Aug.17,2023	1 Year
SB8501/05	LISN	R&S	NNLK 8130	Jan.17,2023	1 Year
SB18867	Test Receiver	R&S	ESR26	Feb.01,2023	1 Year
SB3345	Loop Antenna	Schwarzbeck	FMZB1516-113	Jan.19, 2023	1 Year
SB18826	Broadband Antenna	SCHWARZBECK	VULB9163	Mar.09,2023	1 Year
SB8501/09	Test Receiver	R&S	ESU40	Jan.19, 2023	1 Year
SB3435	Horn Antenna	R&S	HF906	Nov.21, 2023	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
SB9555/02	Fully Anechoic Chamber	Albatross	10.0×5.2×5.4(m)	Aug.15, 2023	1 Year
SB20321/01	Spectrum Analyzer	R&S	FSV3044	Apr.24, 2023	1 Year

Table 6 Test software

Name	Manufacturer	Version
Bluetooth and WiFi Test System	Shenzhen JS tonscend co.,ltd	3.2.22

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

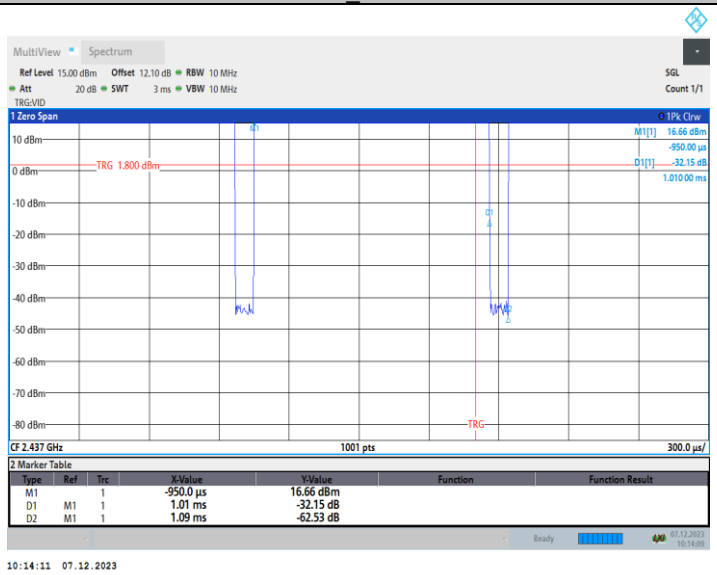
5.3. TEST SETUP

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	1.01	92.66	0.33	0.01
802.11g	0.62	95.38	0.21	0.01
802.11n HT20	0.61	95.31	0.21	0.01
802.11n HT40	0.62	95.38	0.21	0.01

11B_2437



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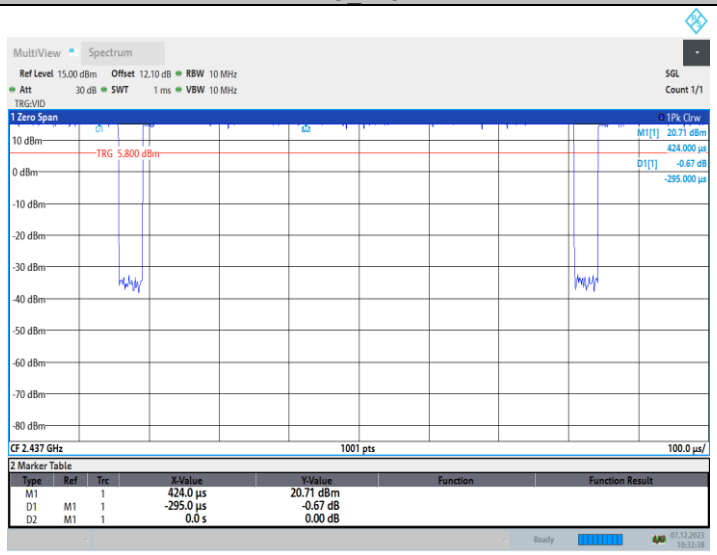

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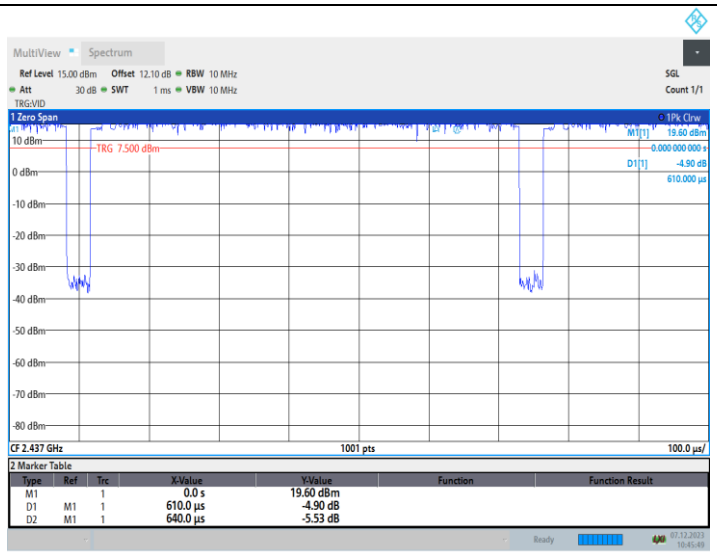

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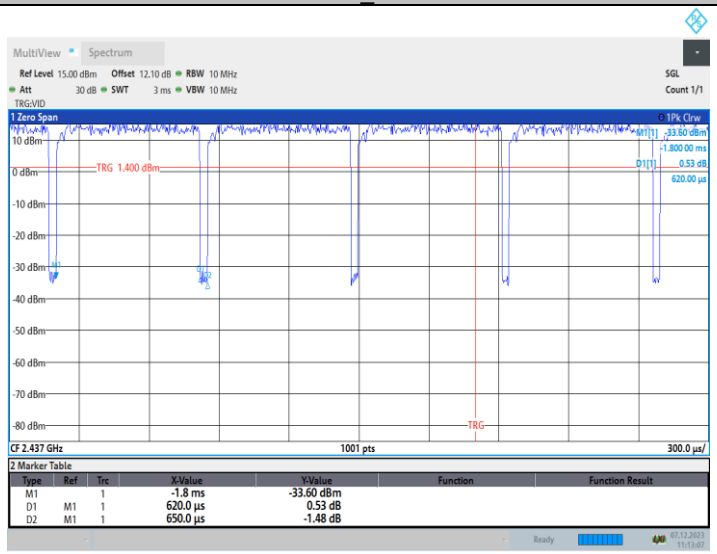

11:13:07 07.12.2023

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

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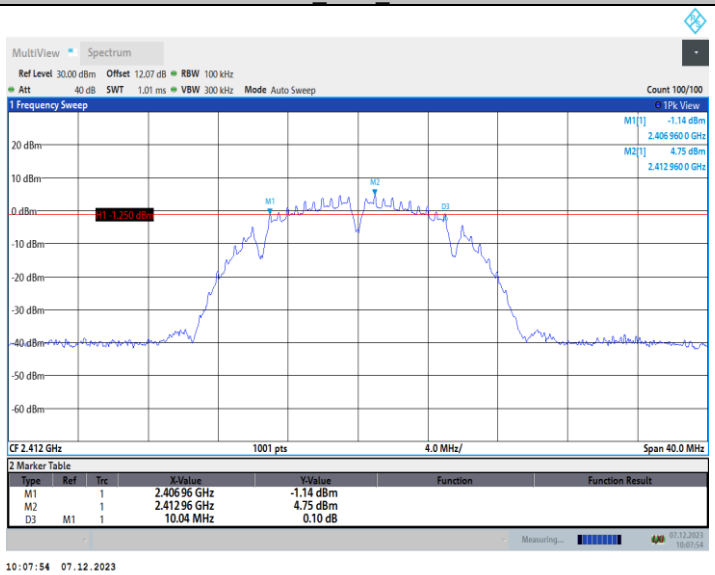

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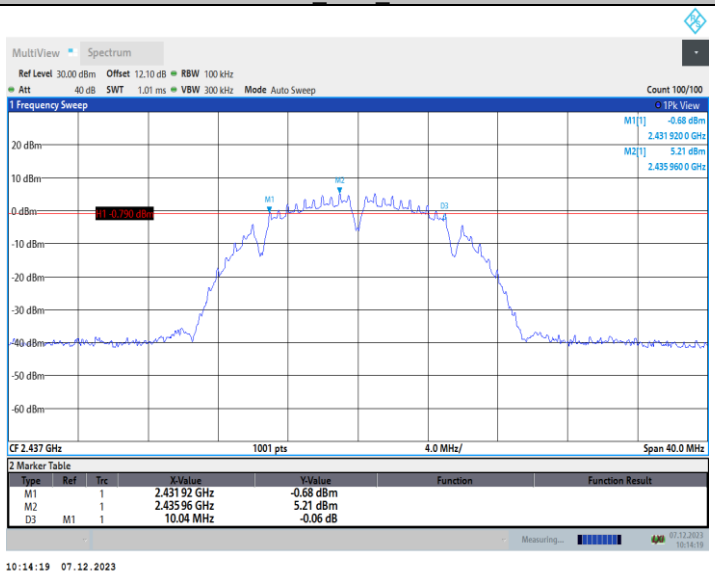

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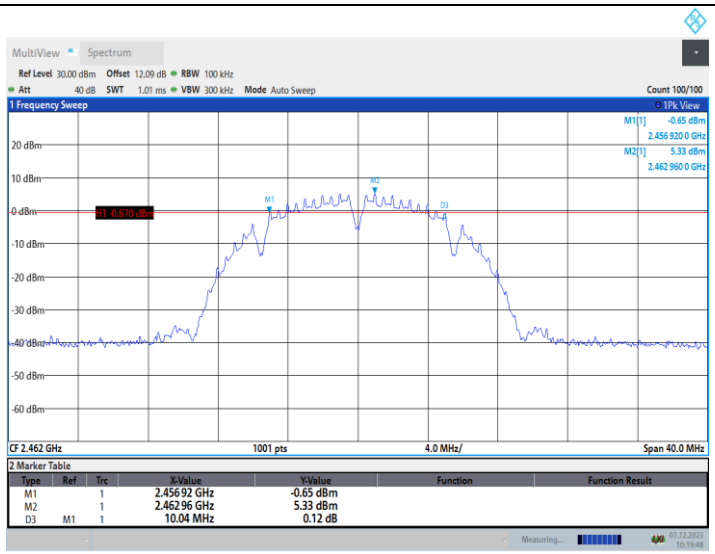

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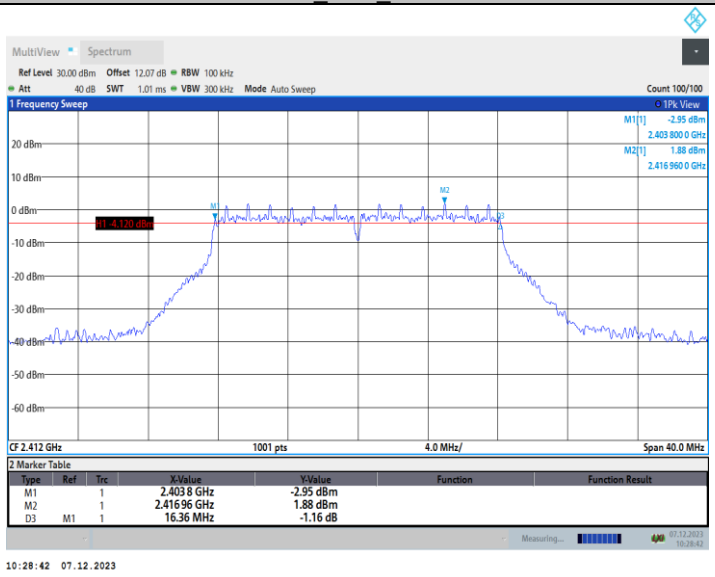

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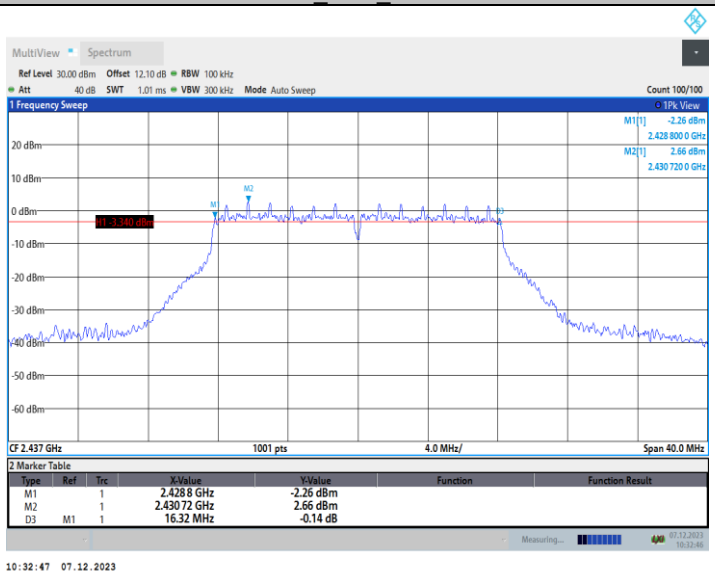

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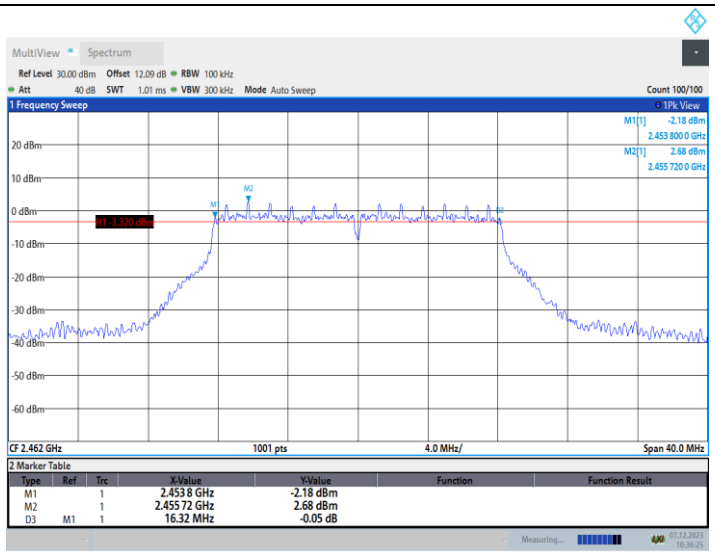

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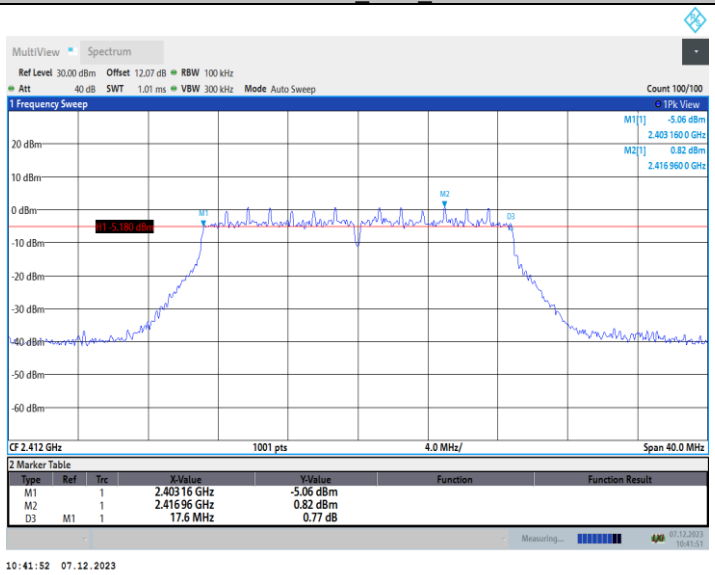

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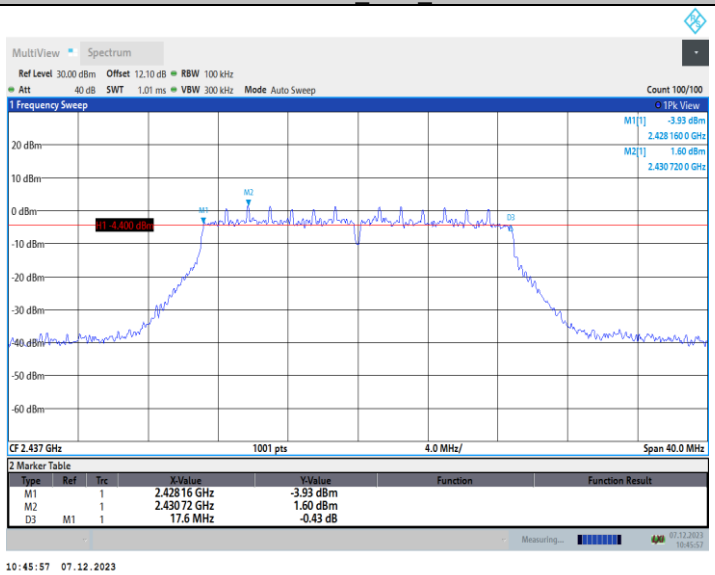

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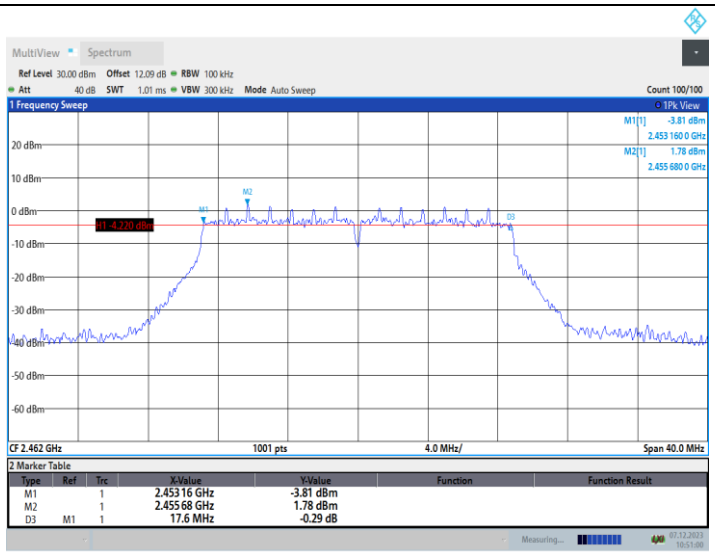

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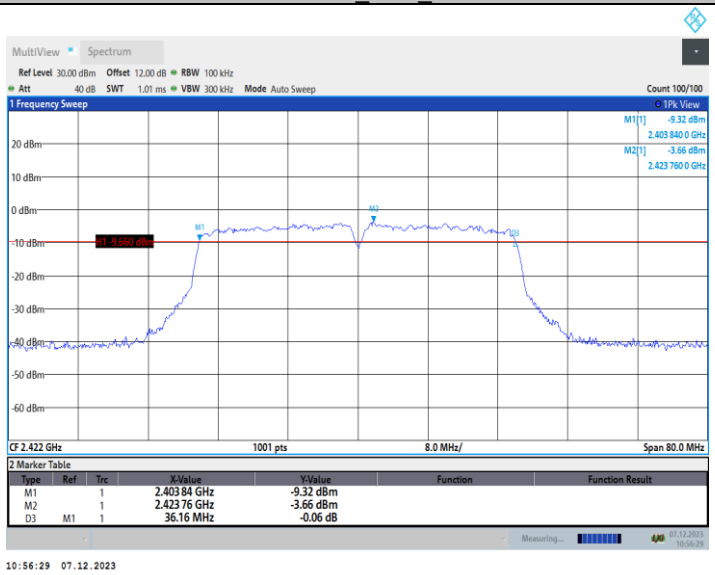

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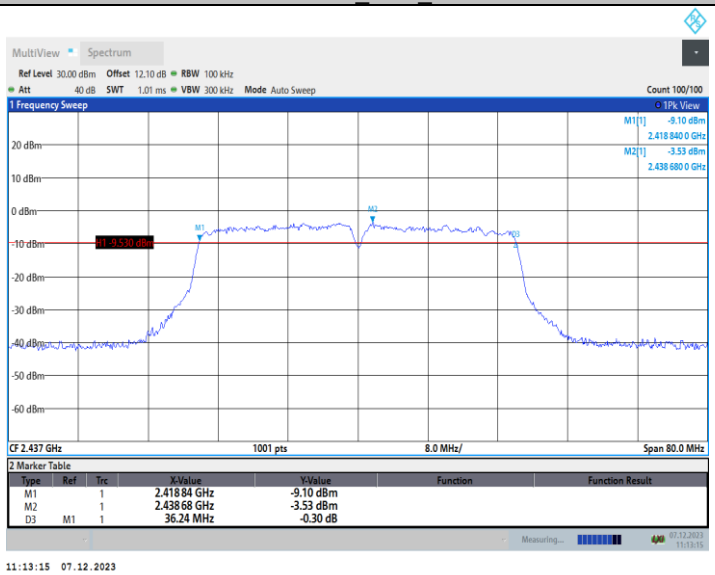

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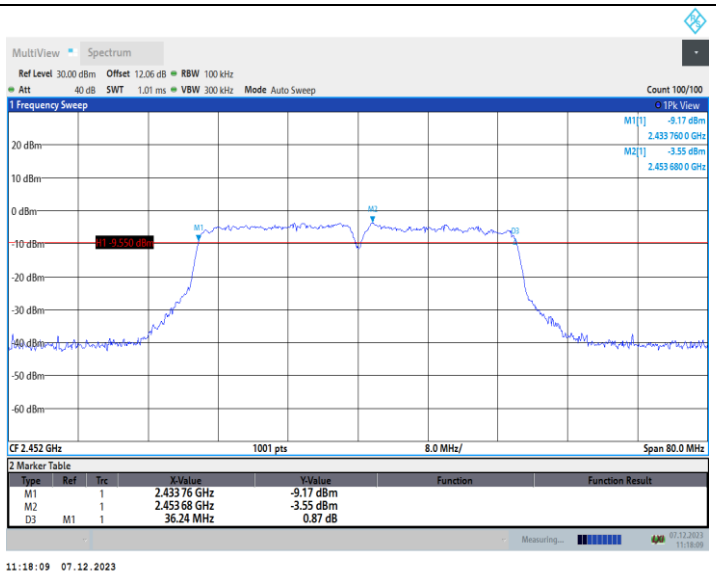

MultiView
Spectrum
Ref Level 30.00 dBm Offset 12.06 dB RBW 100 kHz
Att 40 dB SWT 1.01 ms VBW 300 kHz Mode Auto Sweep
Count 100/100
1 Frequency Sweep
1Pk View
M1[1] -9.17 dBm
2.433 760 0 GHz
M2[1] -3.55 dBm
2.453 680 0 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
M2
D3
CF 2.452 GHz
1001 pts
8.0 MHz/
Span 80.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 2.433 76 GHz -9.17 dBm
M2 1 2.453 68 GHz -3.55 dBm
D3 M1 1 36.24 MHz 0.87 dB
Measuring...
11:18:09 07.12.2023

7. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1. LIMITS OF Maximum Conducted Output Power Measurement

CFR 47 (FCC) part 15.247 (b) (3)

7.2. TEST PROCEDURE

ANSI C63.10-2013 Clause 11.9
The following procedure can be used when the maximum available RBW of the instrument is less than the
DTS bandwidth:
a) Set the RBW = 1 MHz.
b) Set the VBW ≥ [3 × RBW].
c) Set the span ≥ [1.5 × DTS bandwidth].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

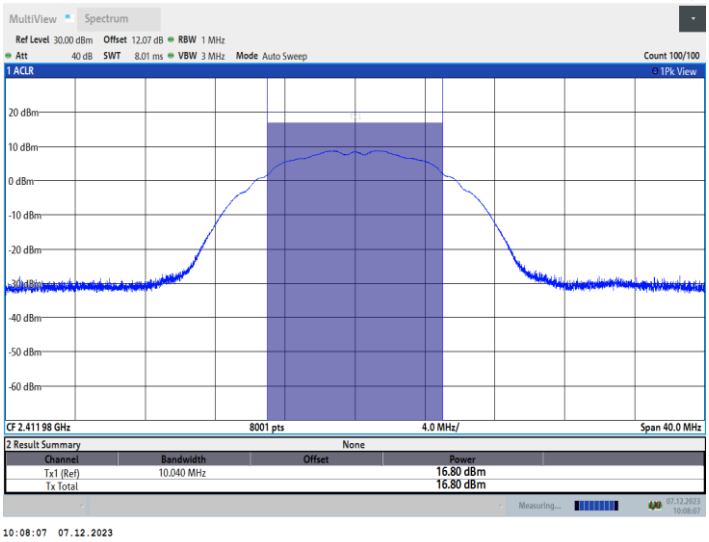
7.3. TEST SETUP

7.4. TEST DATA

Maximum Conducted Output Power

TestMode	Antenna	Frequency [MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	16.80	≤30.00	21.04	≤36.00	PASS
		2437	17.24	≤30.00	23.24	≤36.00	PASS
		2462	17.66	≤30.00	23.66	≤36.00	PASS
11G	Ant1	2412	21.01	≤30.00	27.01	≤36.00	PASS
		2437	21.16	≤30.00	27.16	≤36.00	PASS
		2462	21.55	≤30.00	27.55	≤36.00	PASS
11N20SISO	Ant1	2412	20.09	≤30.00	26.09	≤36.00	PASS
		2437	20.47	≤30.00	26.47	≤36.00	PASS
		2462	20.47	≤30.00	24.71	≤36.00	PASS
11N40SISO	Ant1	2422	19.60	≤30.00	25.60	≤36.00	PASS
		2437	19.82	≤30.00	25.82	≤36.00	PASS
		2452	19.70	≤30.00	25.70	≤36.00	PASS

11B_Ant1_2412



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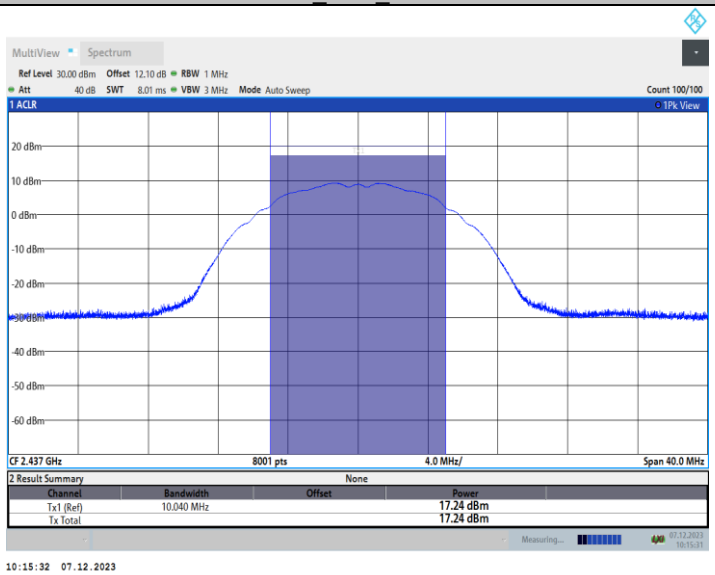

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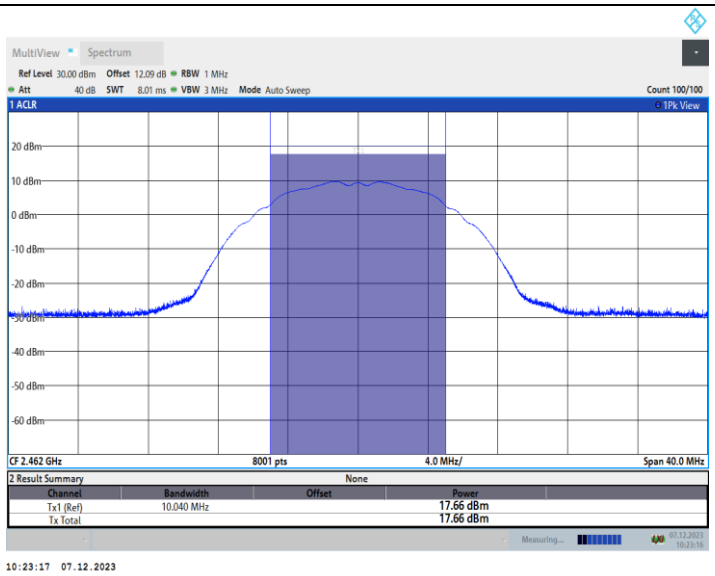

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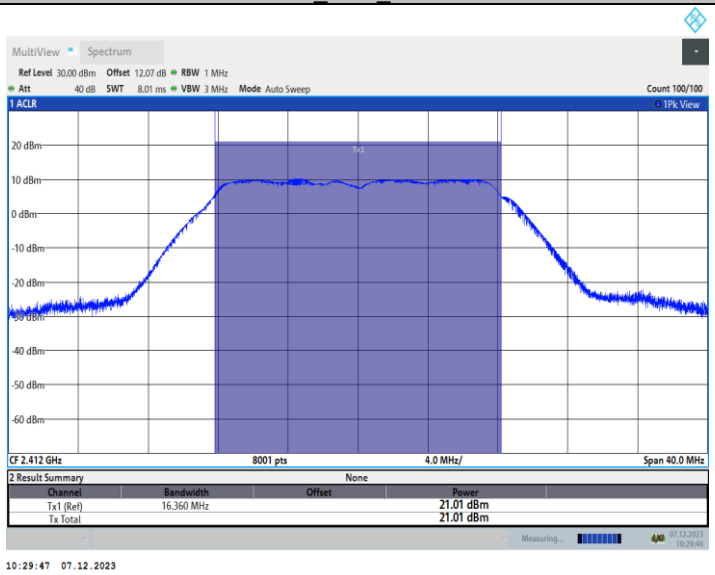

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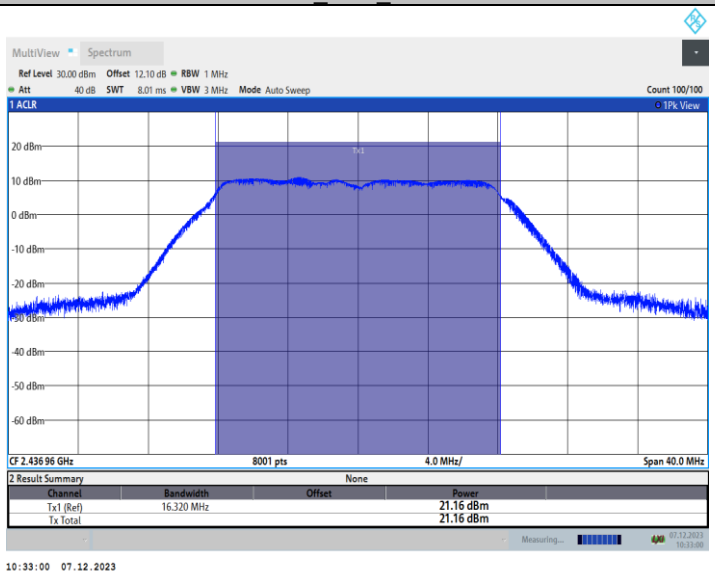
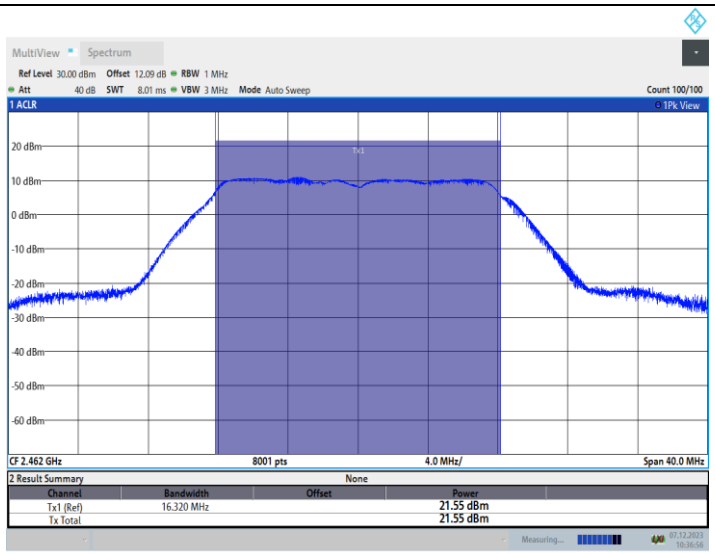
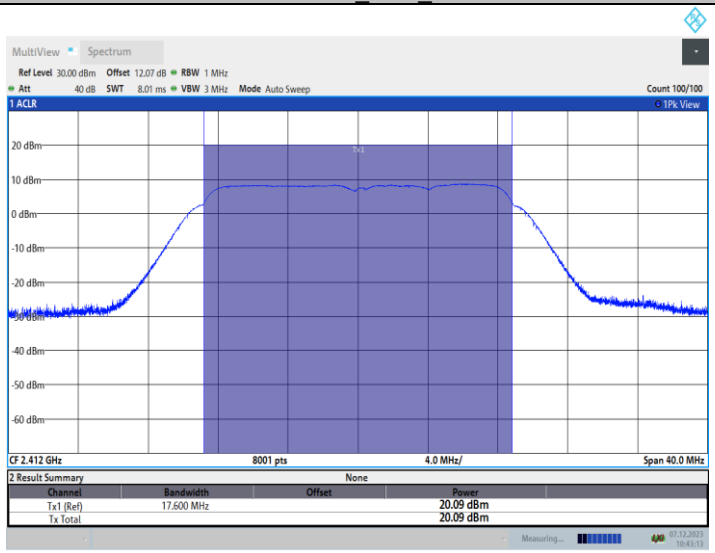


11G_Ant1_2462



11N20SISO_Ant1_2412



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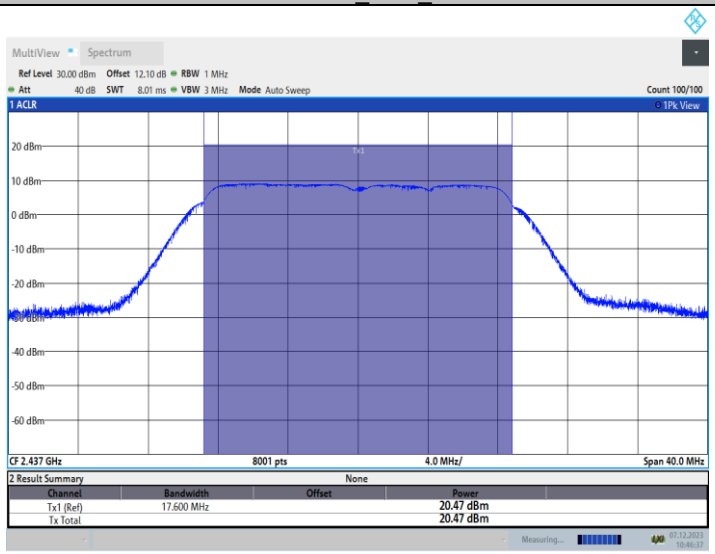

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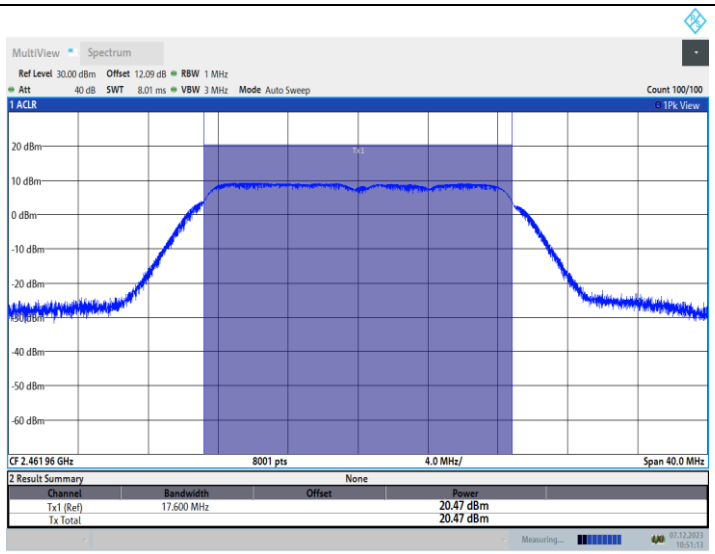

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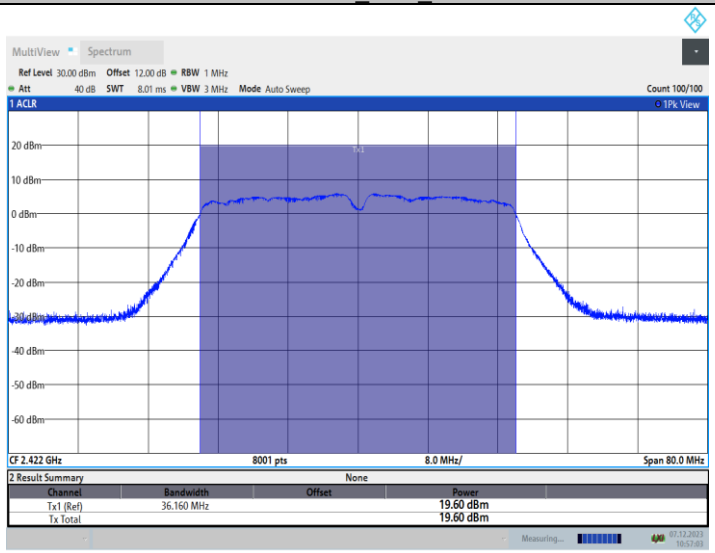

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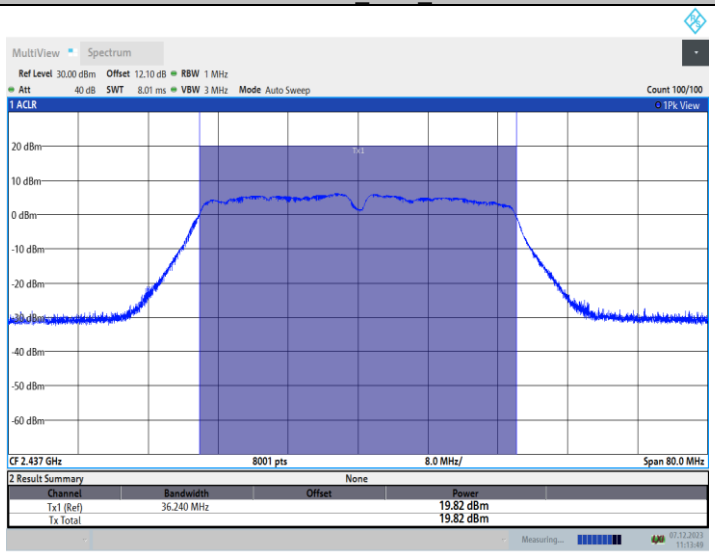
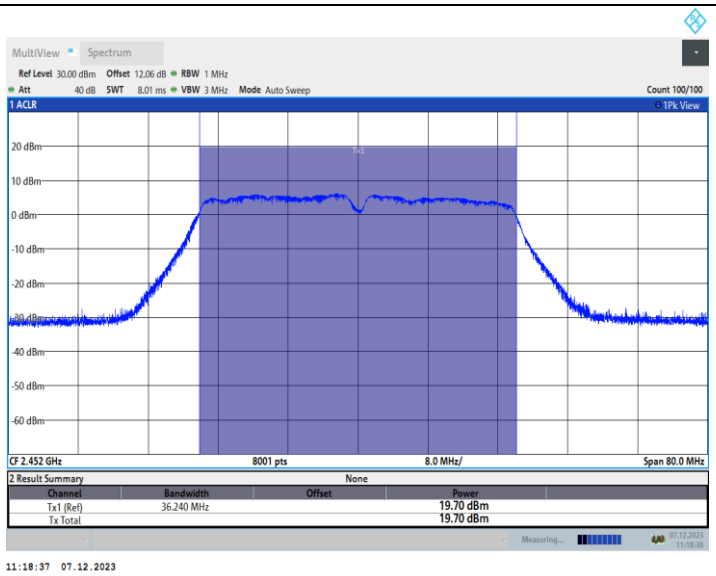


11N40SISO_Ant1_2452


MultiView
Spectrum
Ref Level 30.00 dBm Offset 12.06 dB RBW 1 MHz
Att 40 dB SWT 8.01 ms VBW 3 MHz Mode Auto Sweep
Count 100/100
1 ACLR
1Pk View
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 2.452 GHz
8001 pts
8.0 MHz/
Span 80.0 MHz
2 Result Summary
None
Channel
Bandwidth
Offset
Power
Tx1 (Ref)
36.240 MHz
19.70 dBm
Tx Total
19.70 dBm
Measuring...
11:18:37 07.12.2023

8. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

8.1. LIMITS OF Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e)

8.2. TEST PROCEDURE

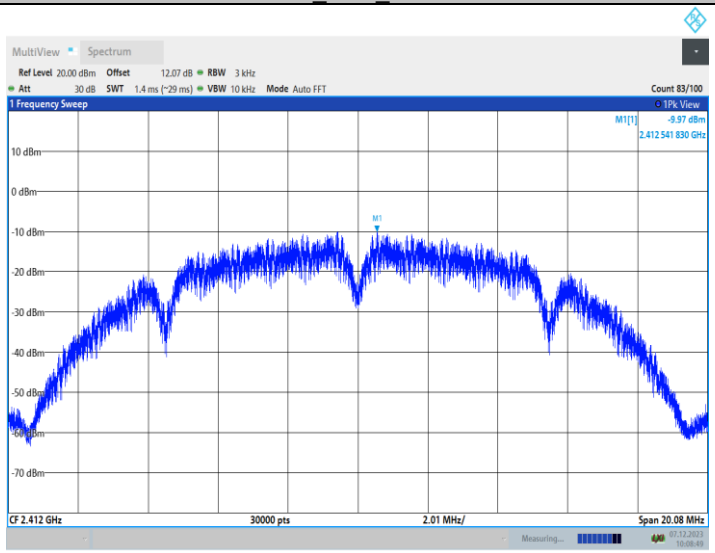
ANSI C63.10-2013 Clause 11.10
The transmitter output was connected to the spectrum analyzer.
a)Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set RBW to：3kHz≤RBW≤100 kHz.
d) Set VBW ≥ 3 x RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h)Allow trace to fully stabilize.
i)Use the peak marker function to determine the maximum amplitude level within the RBW.
j)If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

8.3. TEST DATA

Maximum Power Spectral Density Level

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.97	≤8.00	PASS
		2437	-9.54	≤8.00	PASS
		2462	-9.15	≤8.00	PASS
11G	Ant1	2412	-12.97	≤8.00	PASS
		2437	-12.56	≤8.00	PASS
		2462	-12.18	≤8.00	PASS
11N20SISO	Ant1	2412	-13.4	≤8.00	PASS
		2437	-13.03	≤8.00	PASS
		2462	-12.79	≤8.00	PASS
11N40SISO	Ant1	2422	-15.1	≤8.00	PASS
		2437	-14.96	≤8.00	PASS
		2452	-14.98	≤8.00	PASS

11B_Ant1_2412



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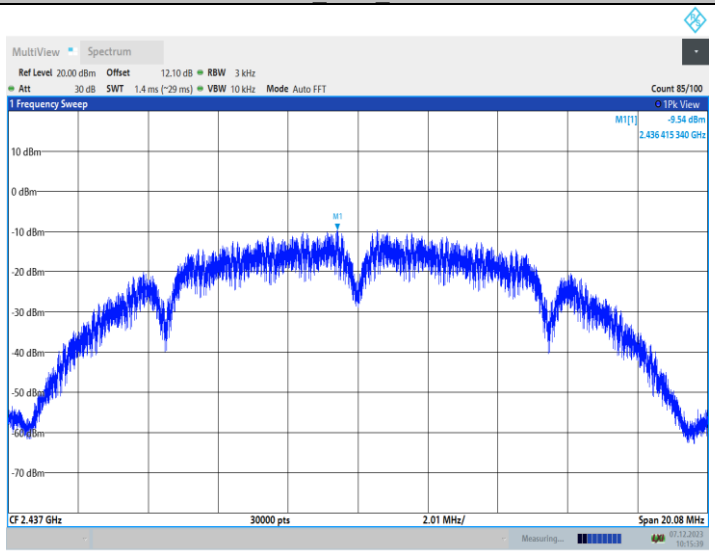
11B_Ant1_2437



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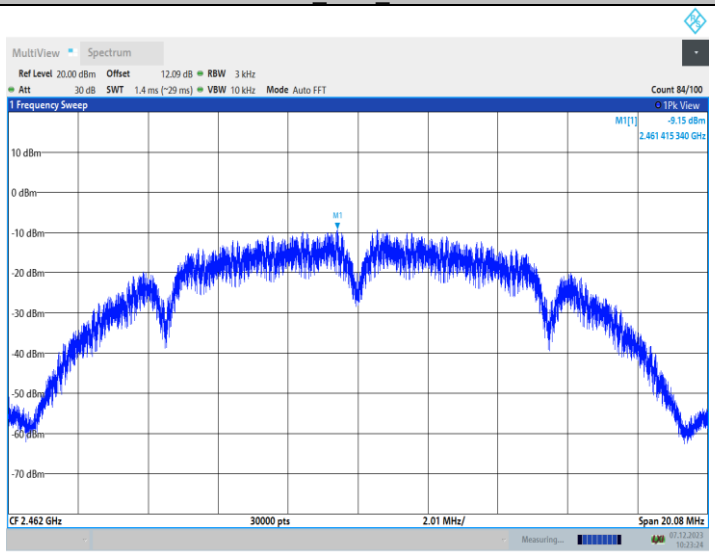
11B_Ant1_2462



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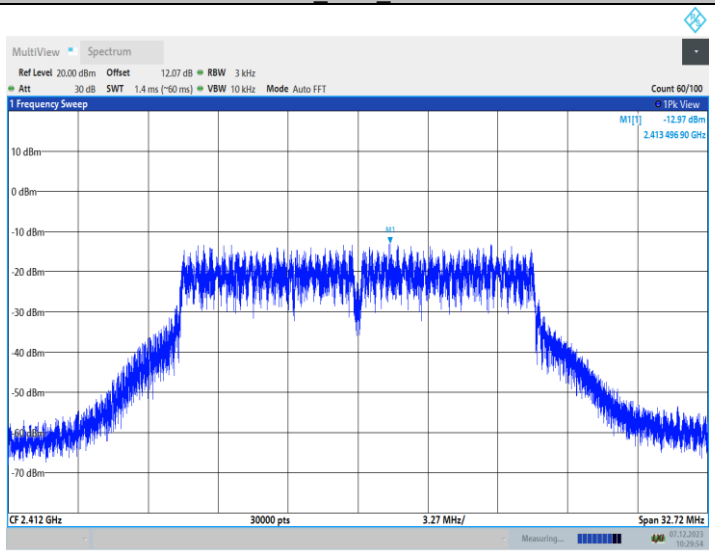
11G_Ant1_2412



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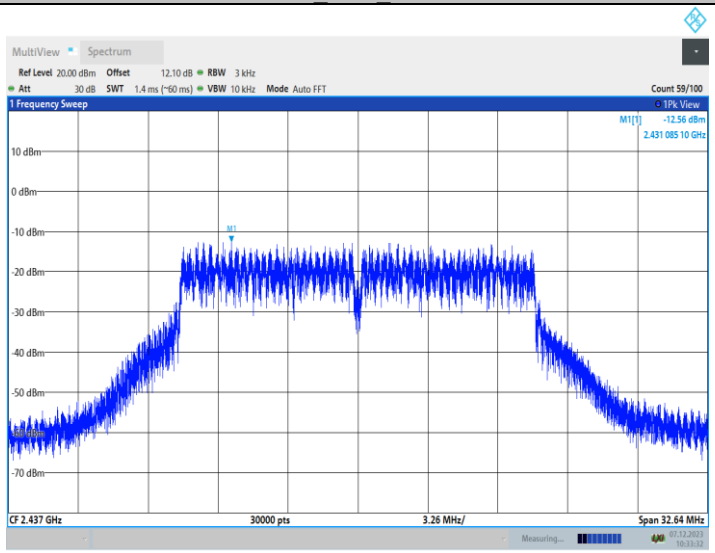

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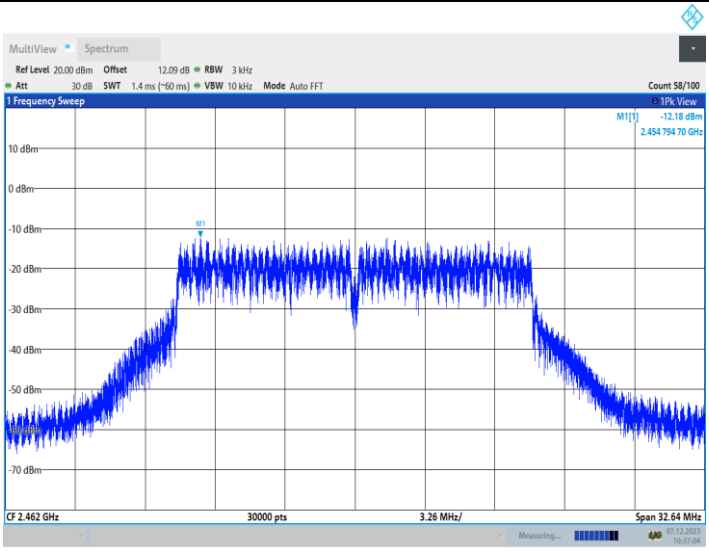

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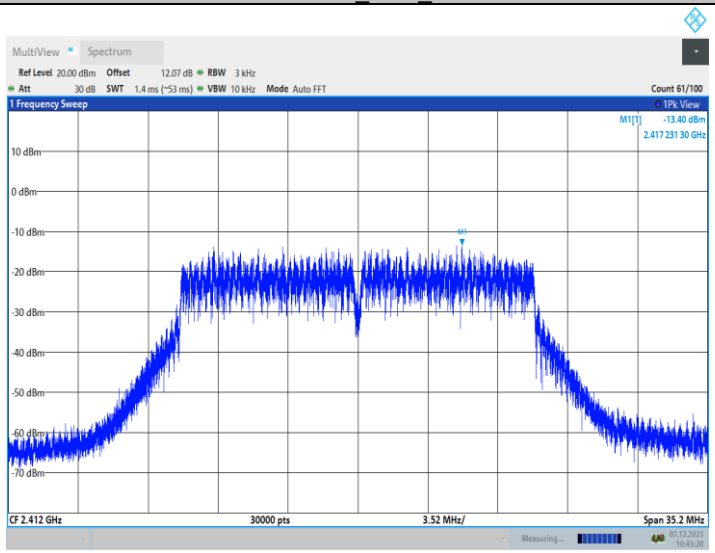
11N20SISO_Ant1_2412



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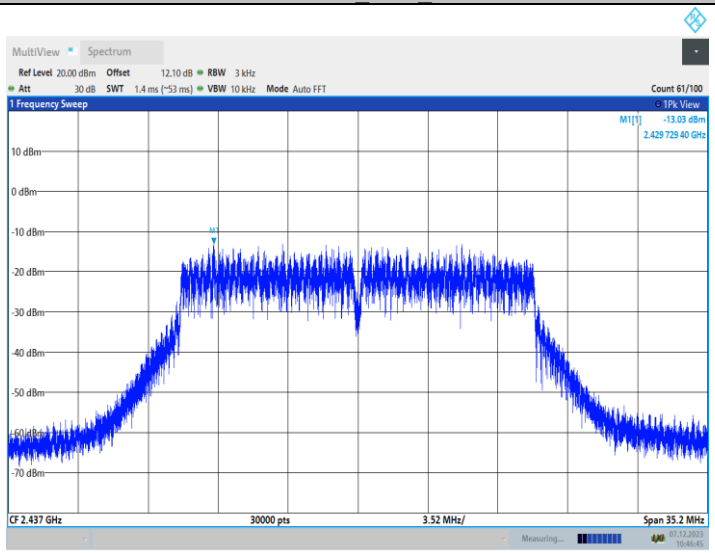

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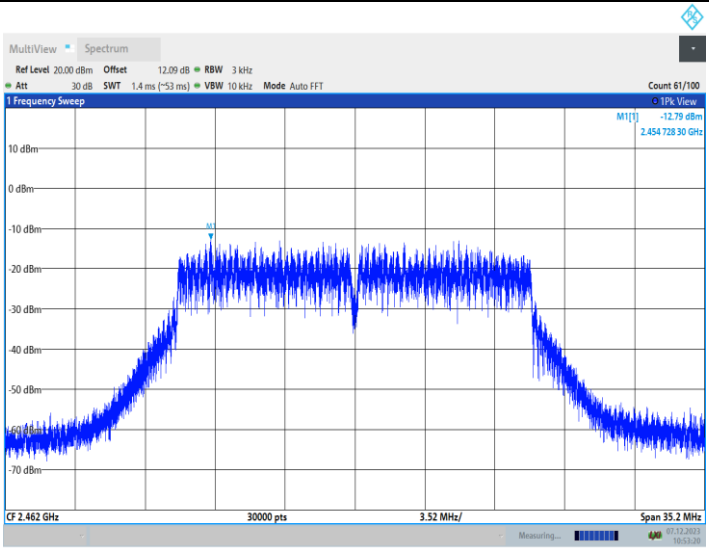

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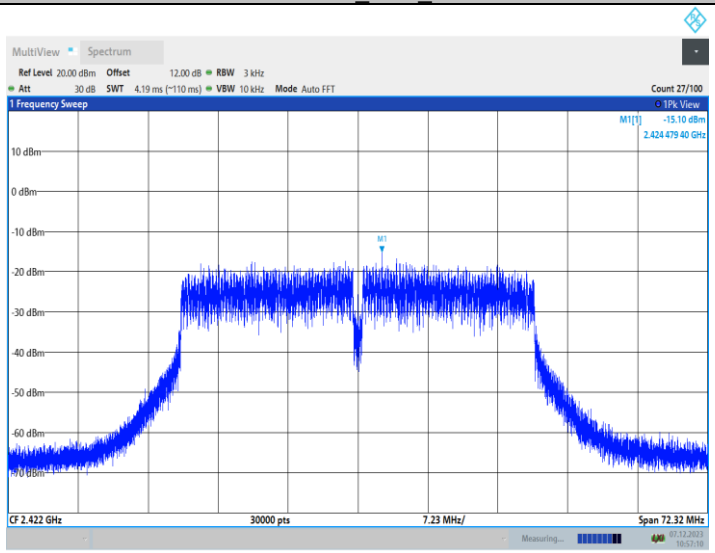
11N40SISO_Ant1_2422



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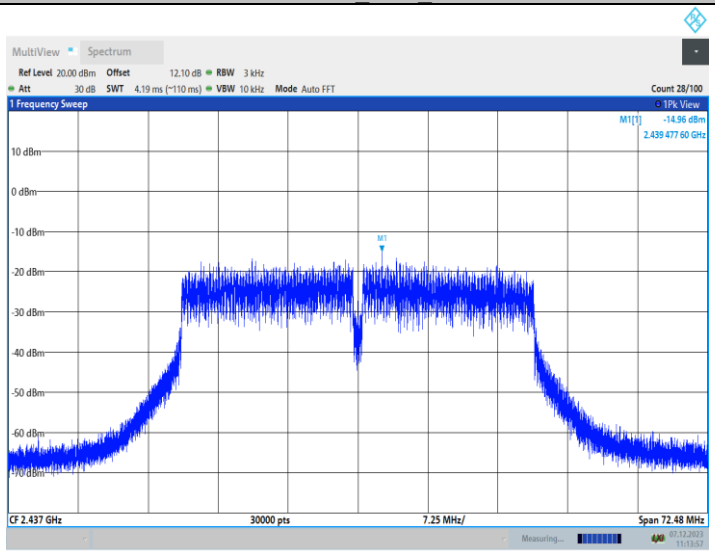

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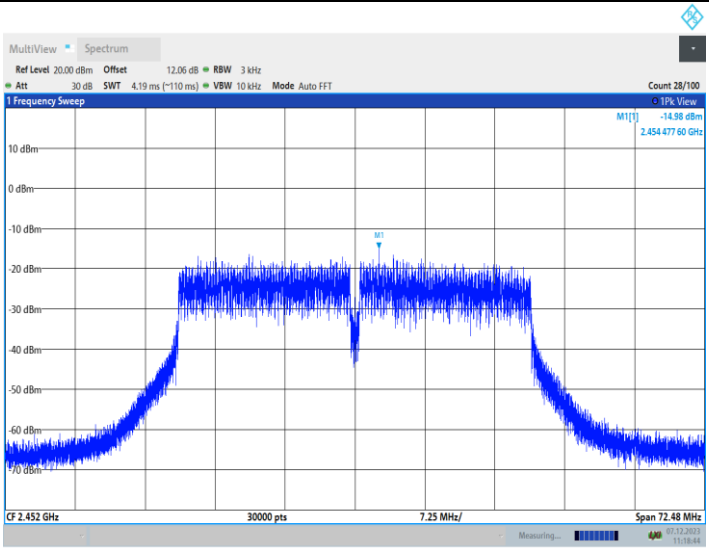
11N40SISO_Ant1_2452



11:18:45 07.12.2023

9. CONDUCTED BANDEDGE AND SPURIOUS MEASURMENT

9.1. LIMITS OF Conducted Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d)

9.2. TEST PROCEDURE

ANSI C63.10-2013 Clause 11.11
The transmitter output was connected to the spectrum analyzer.
Establish a reference level by using the following procedure:
a)Set instrument center frequency to DTS channel center frequency.
b)Set the span to ≥ 1.5 times the DTS bandwidth.
c)Set the RBW = 100 kHz.
d)Set the VBW ≥ 3 x RBW.
e)Detector = peak.
f)Sweep time = auto couple.
g)Trace mode = max hold.
h)Allow trace to fully stabilize.
i)Use the peak marker function to determine the maximum PSD level.
Emission level measurement
a)Set the center frequency and span to encompass frequency range to be measured.
b)Set the RBW = 100 kHz.
c)Set the VBW ≥ 3 x RBW.
d)Detector = peak.
e)Sweep time = auto couple.
f)Trace mode = max hold.
g)Allow trace to fully stabilize.
h)Use the peak marker function to determine the maximum amplitude level.

Test Result ： All emission outside of 2400-2483.5 are lower at least 20dB than fundamental frequency.

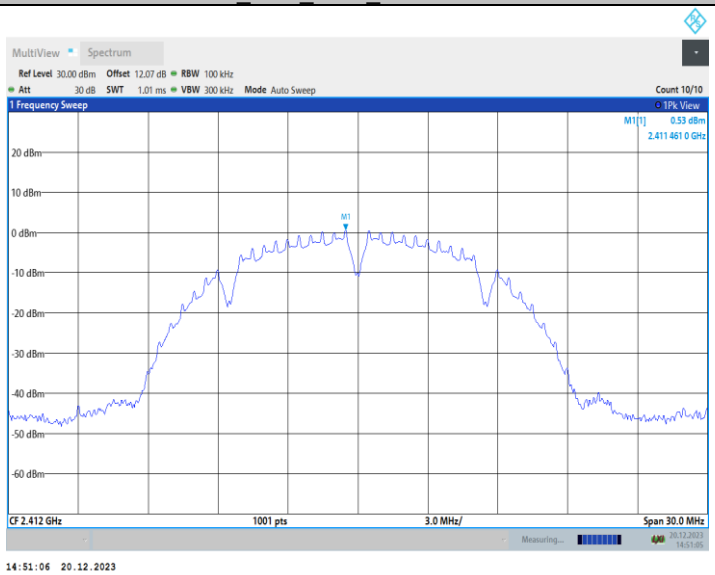
9.3. TEST DATA

Conducted Bandedge and Spurious

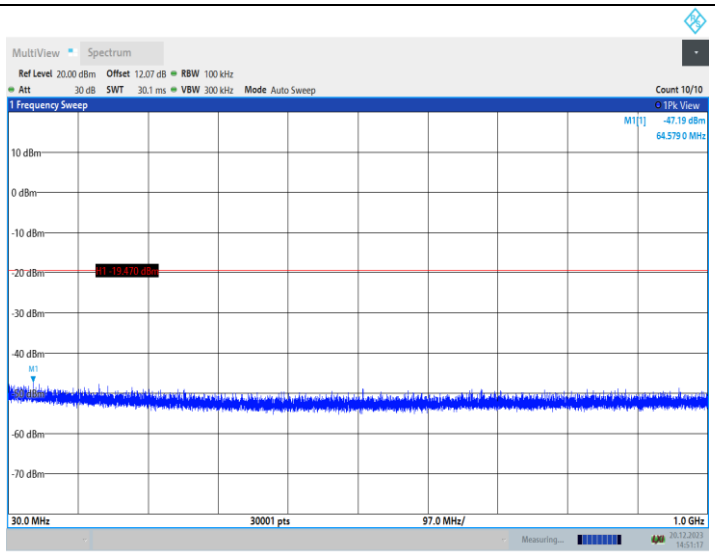
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-47.19	≤-19.47	PASS
			1000~26500	0.53	-41.37	≤-19.47	PASS
		2437	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-47.23	≤-19.54	PASS
			1000~26500	0.46	-41.96	≤-19.54	PASS
		2462	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-47.21	≤-21	PASS
			1000~26500	-1.00	-40.67	≤-21	PASS
11G	Ant1	2412	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-46.76	≤-21.53	PASS
			1000~26500	-1.53	-41.17	≤-21.53	PASS
		2437	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-47.67	≤-21.8	PASS

			1000~26500	-1.80	-41.24	≤-21.8	PASS
		2462	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-47.69	≤-22.84	PASS
			1000~26500	-2.84	-42.17	≤-22.84	PASS
11N20SISO	Ant1	2412	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-46.92	≤-22.51	PASS
			1000~26500	-2.51	-41.33	≤-22.51	PASS
		2437	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-47.32	≤-22.65	PASS
			1000~26500	-2.65	-41.2	≤-22.65	PASS
		2462	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-47.2	≤-23.72	PASS
			1000~26500	-3.72	-41.44	≤-23.72	PASS
11N40SISO	Ant1	2422	Reference	-3.00	-3.00	---	PASS
			30~1000	-3.00	-46.89	≤-23	PASS
			1000~26500	-3.00	-41.15	≤-23	PASS
		2437	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-46.94	≤-22.69	PASS
			1000~26500	-2.69	-41.56	≤-22.69	PASS
		2452	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-47.26	≤-23.04	PASS
			1000~26500	-3.04	-41.33	≤-23.04	PASS

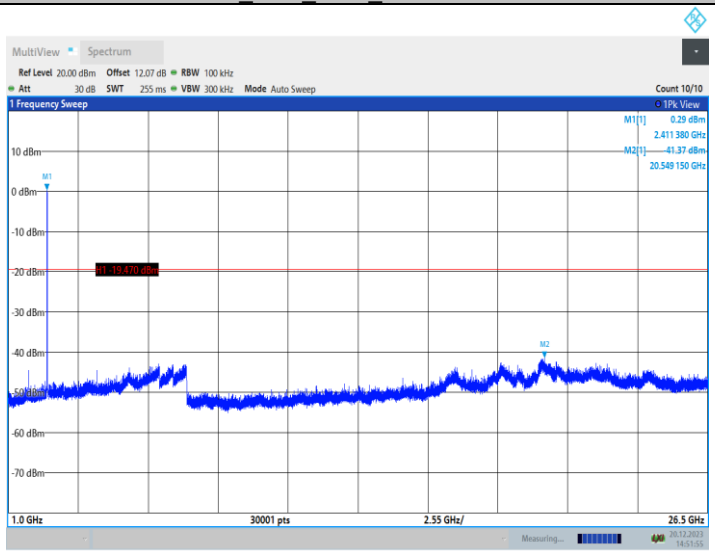
11B_Ant1_2412_0~Reference



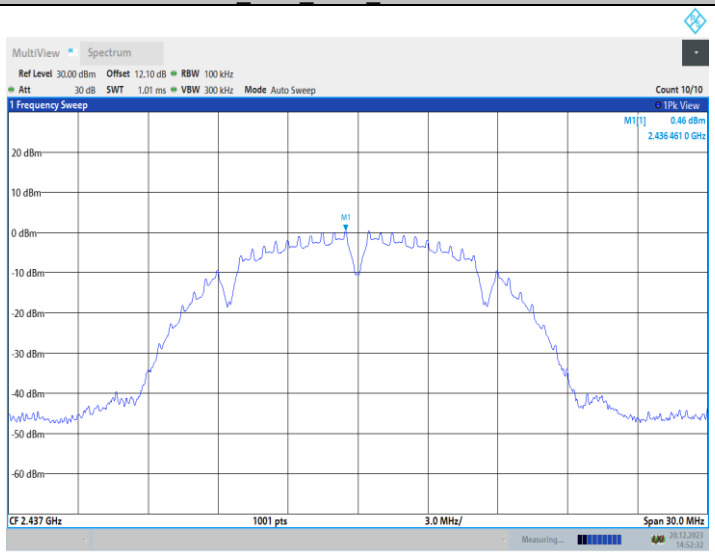
11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



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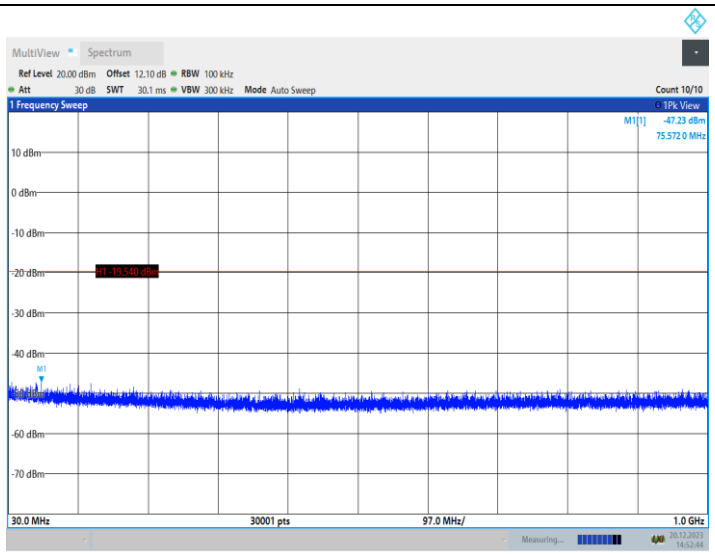
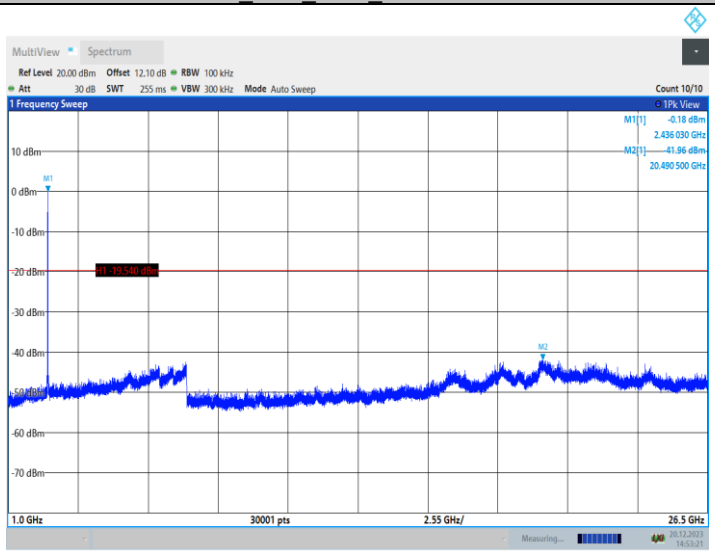


11B_Ant1_2437_1000~26500



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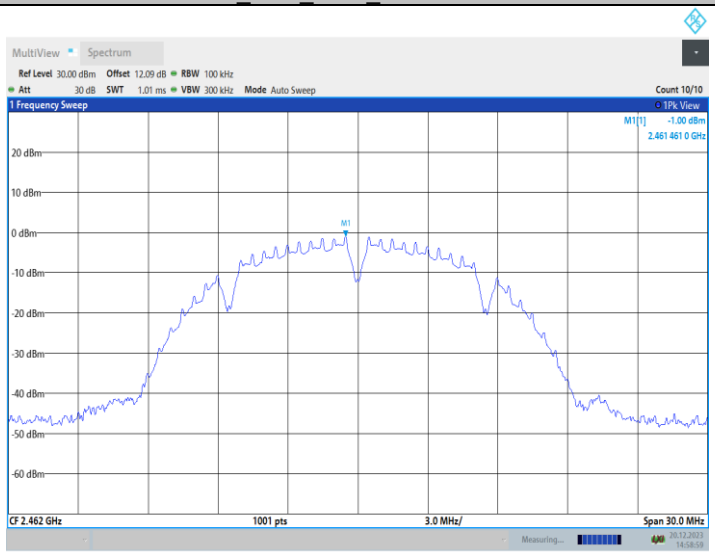

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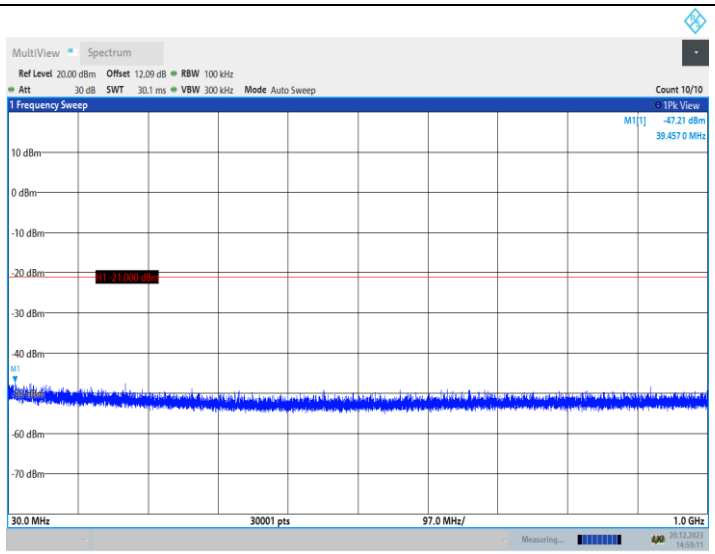
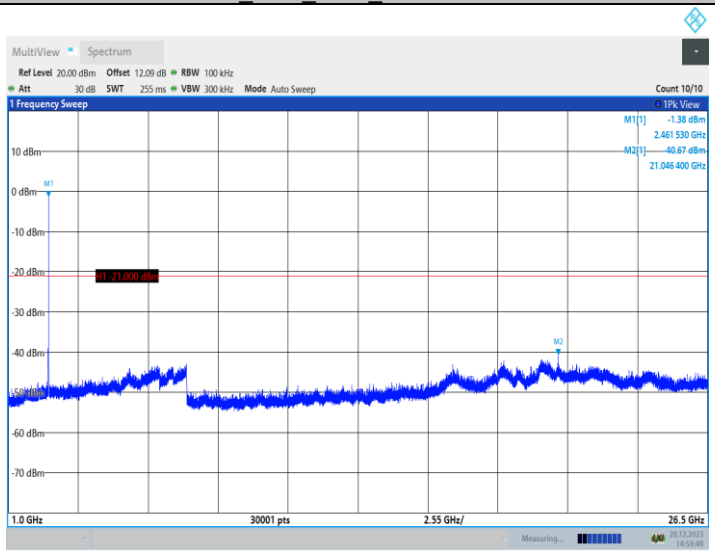
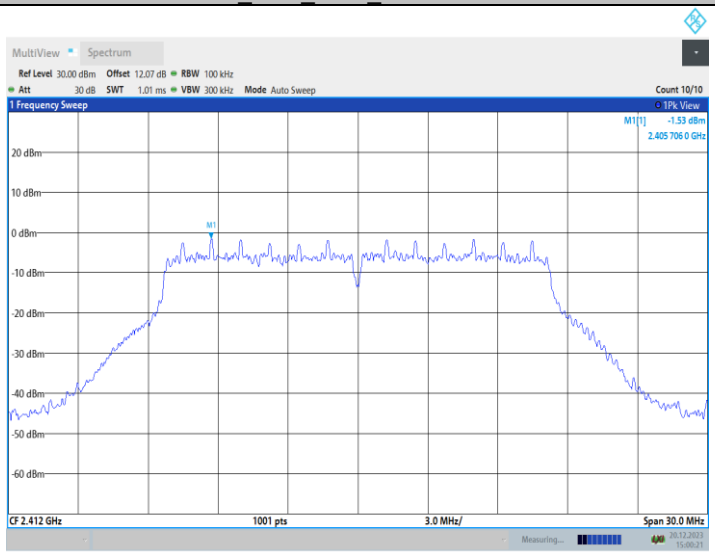


11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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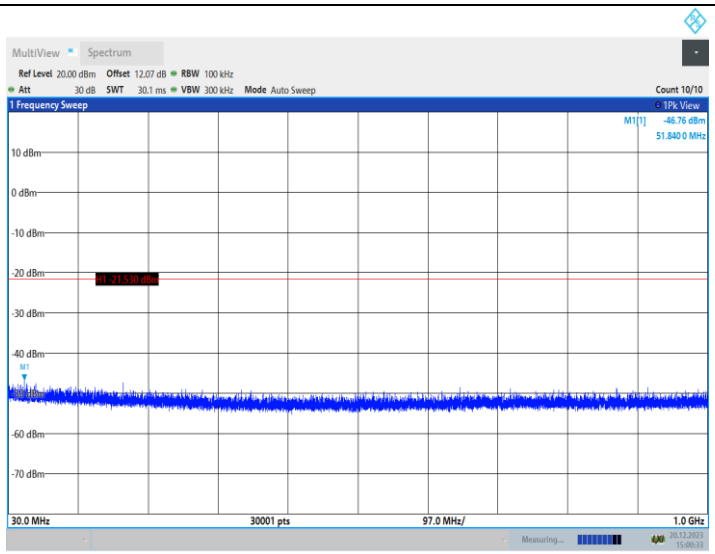
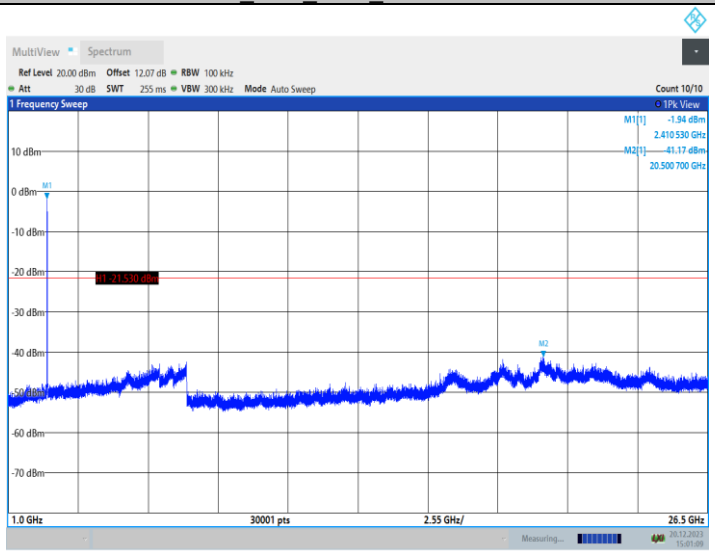


11G_Ant1_2412_1000~26500



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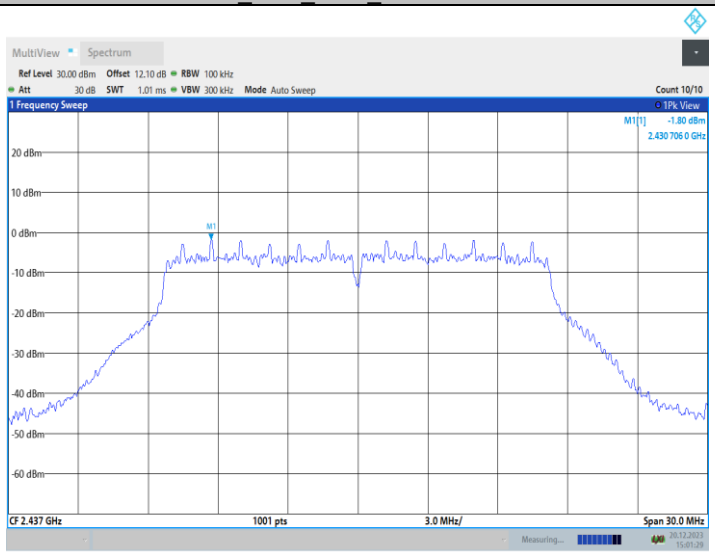

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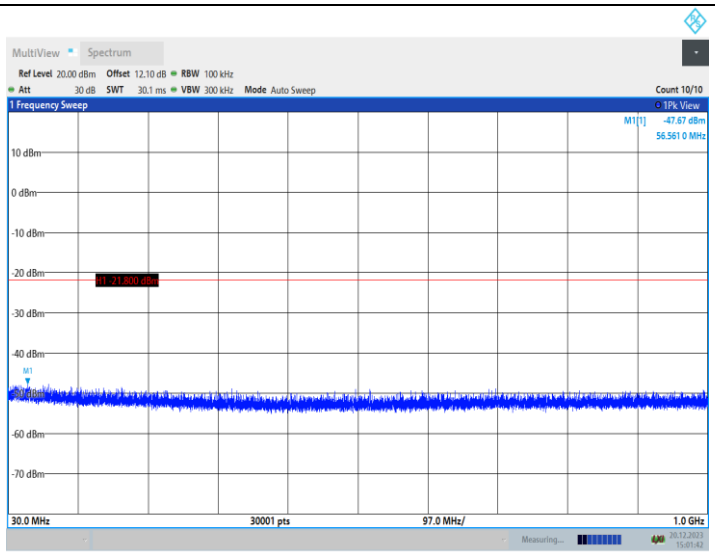
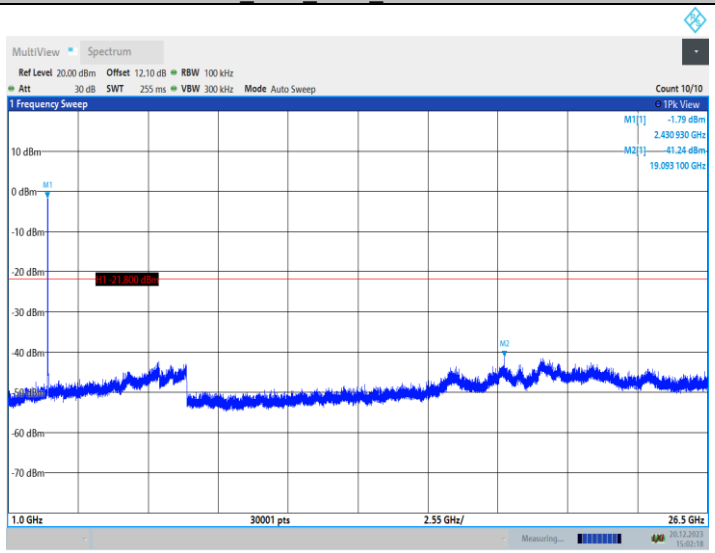


11G_Ant1_2437_1000~26500



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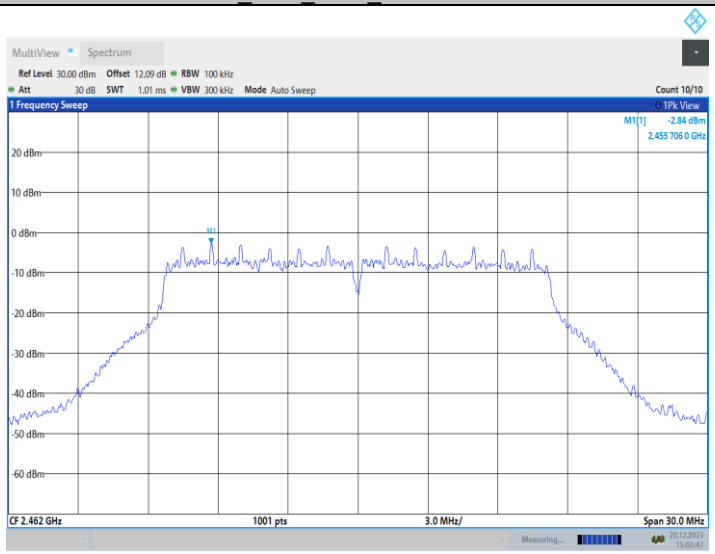

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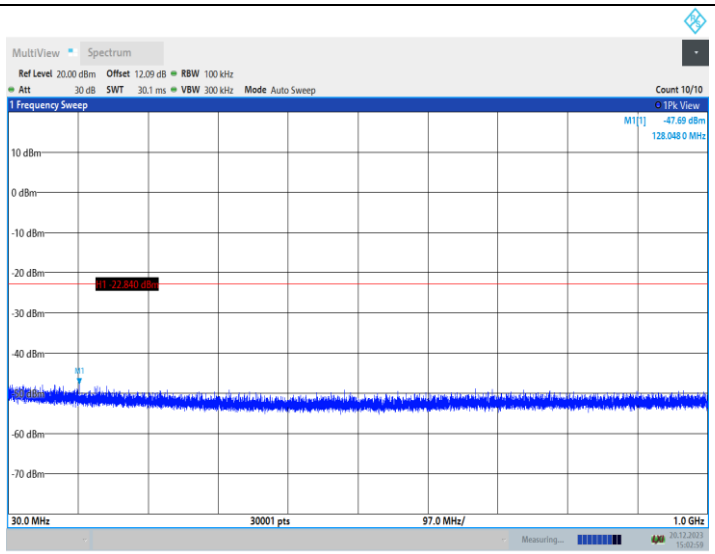

15:03:00 20.12.2023

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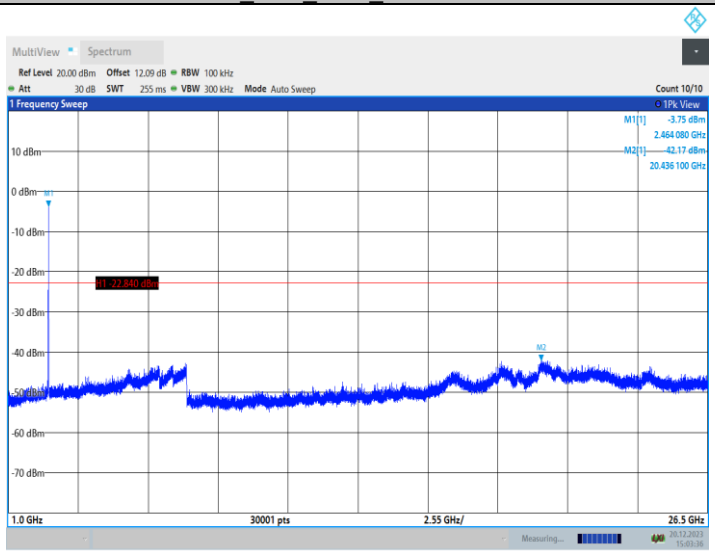

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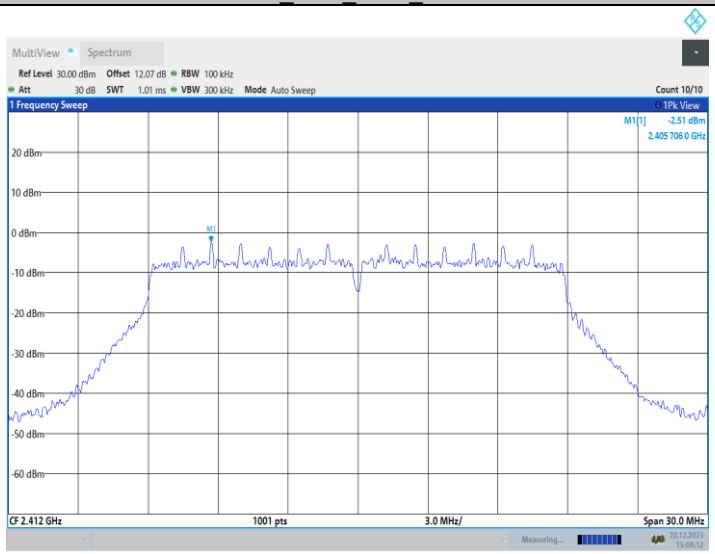
11N20SISO_Ant1_2412_0~Reference



15:04:12 20.12.2023

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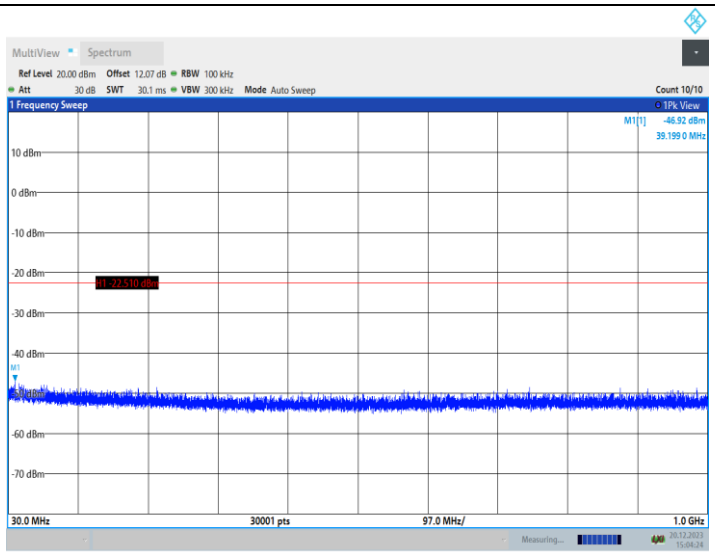

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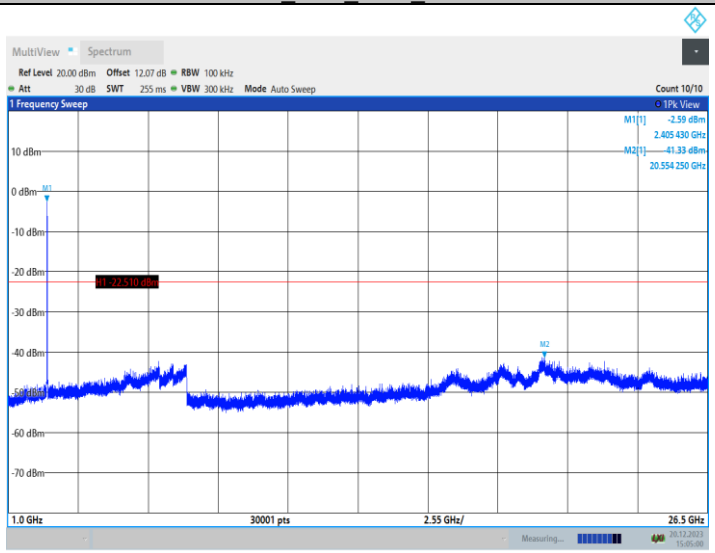

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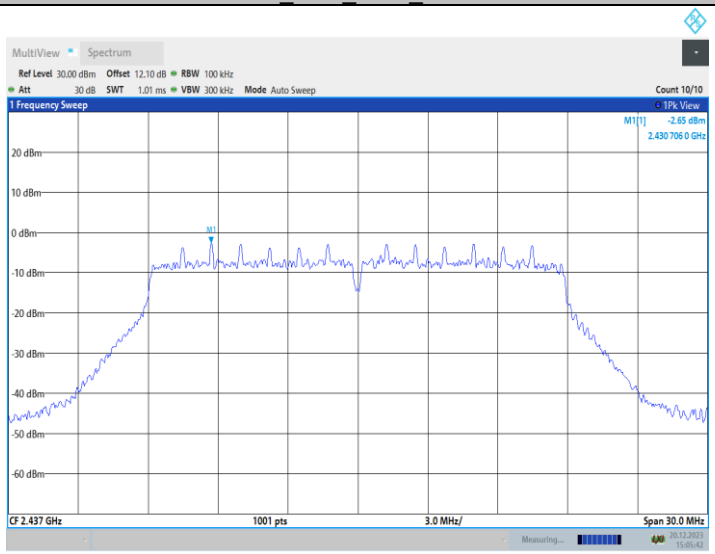

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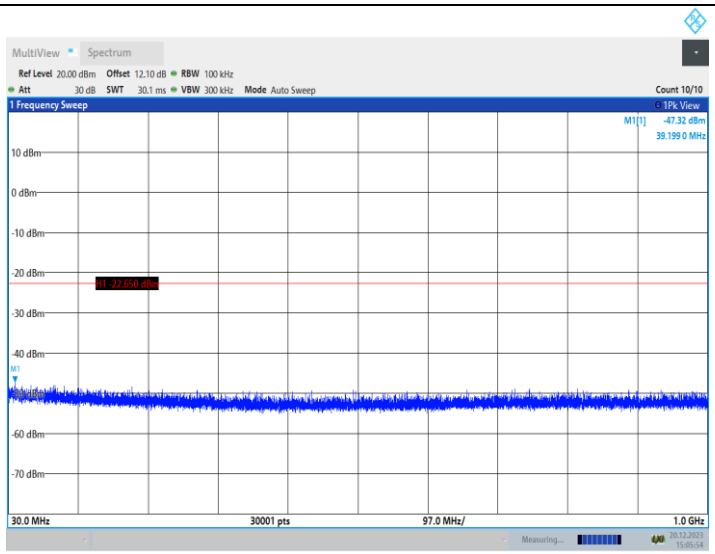

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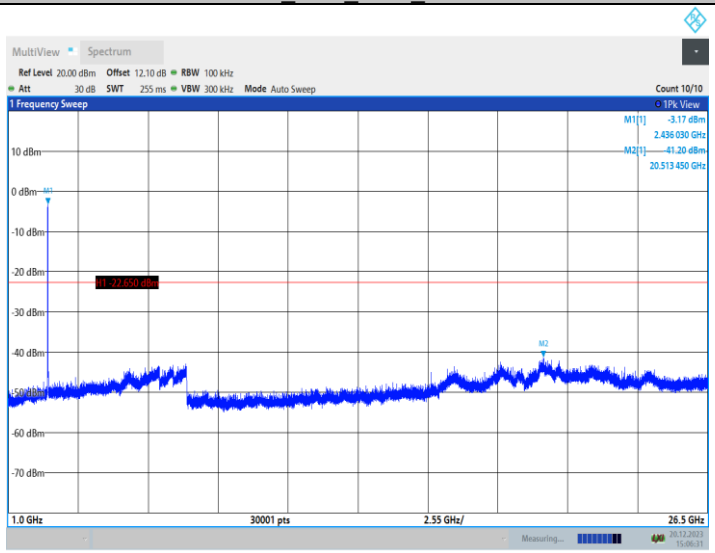

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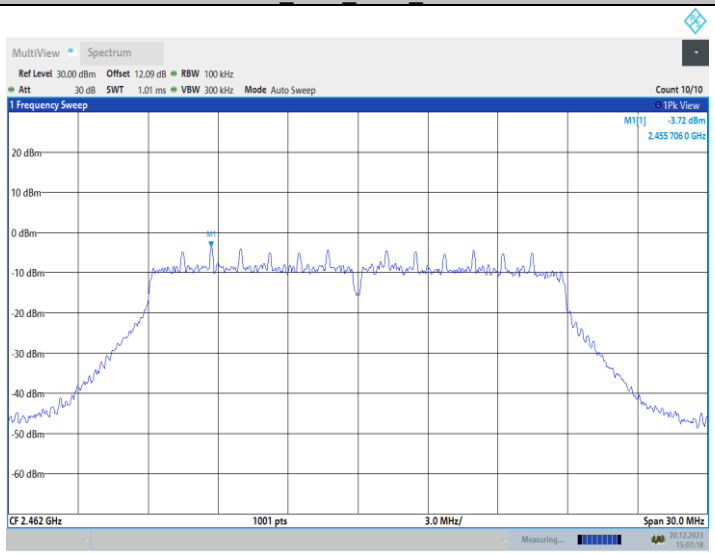

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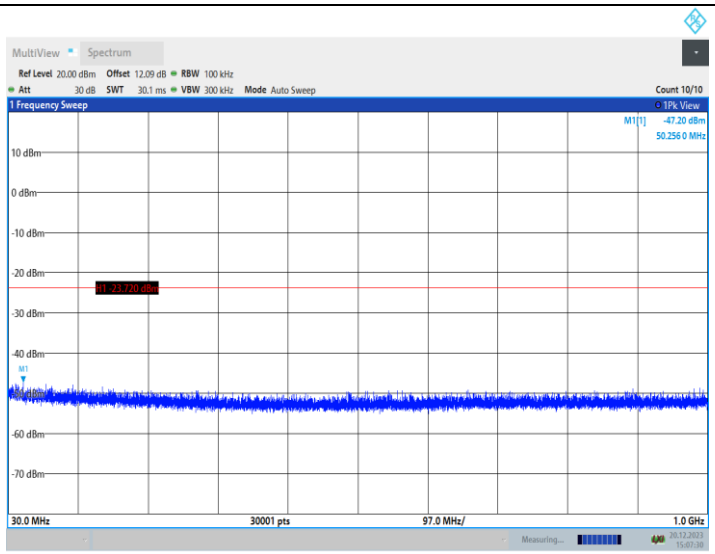

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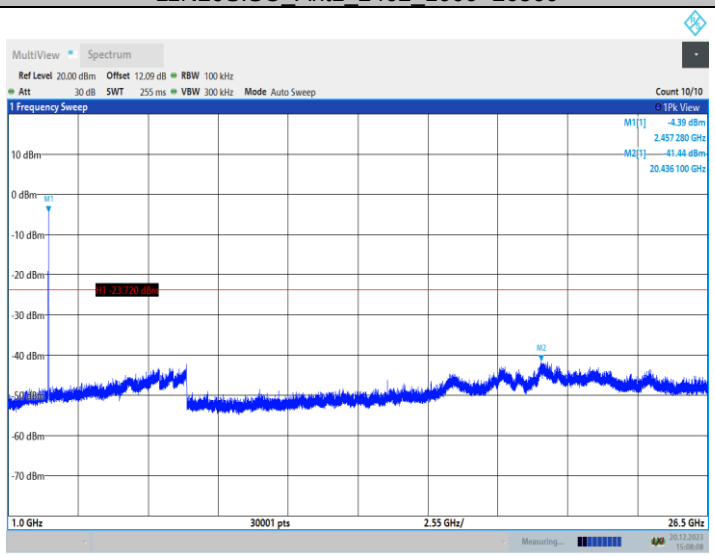

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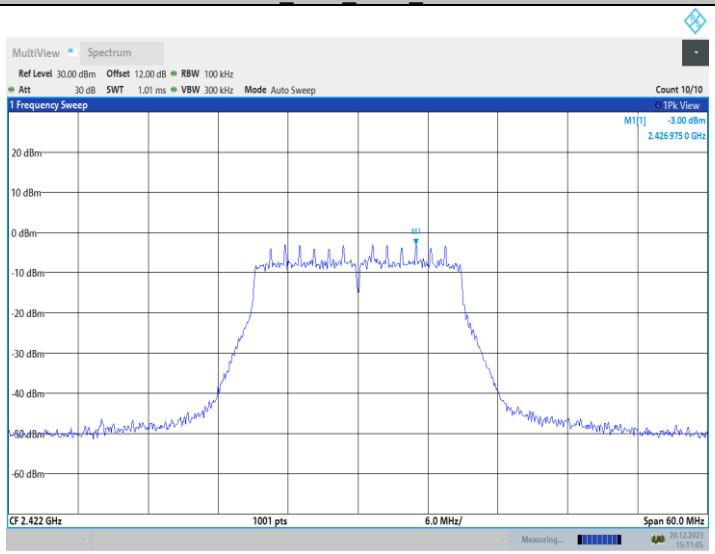

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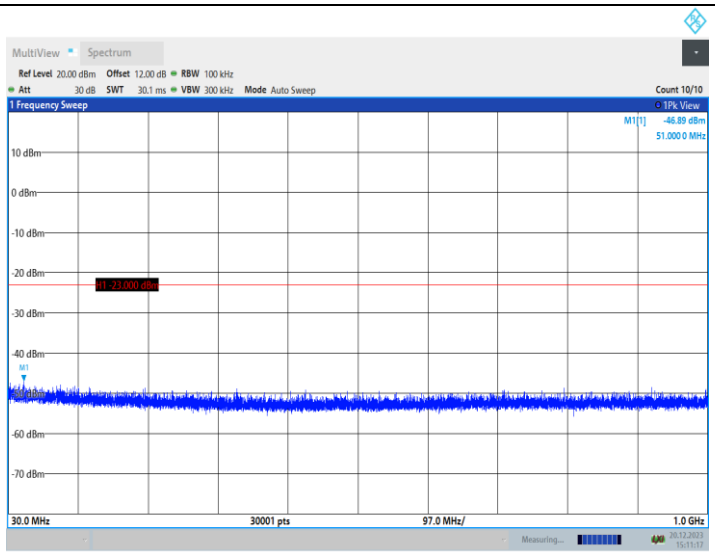

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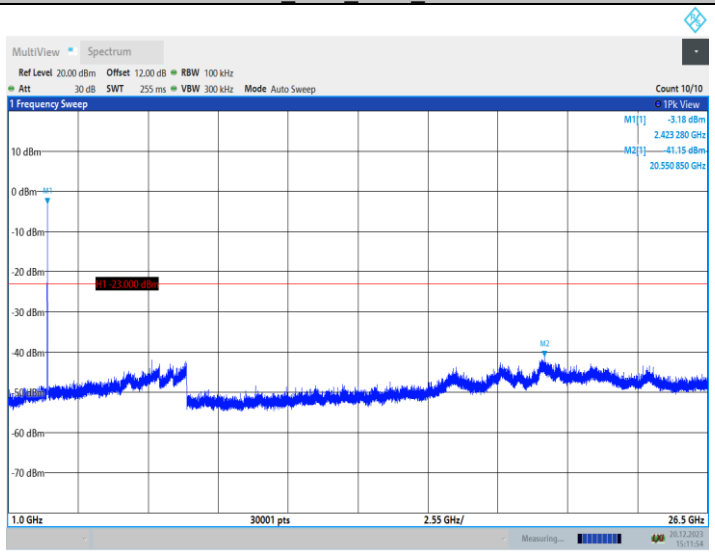

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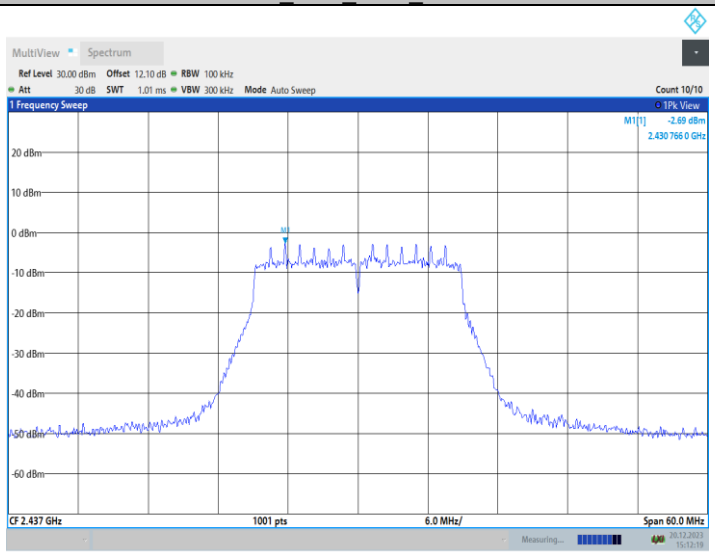

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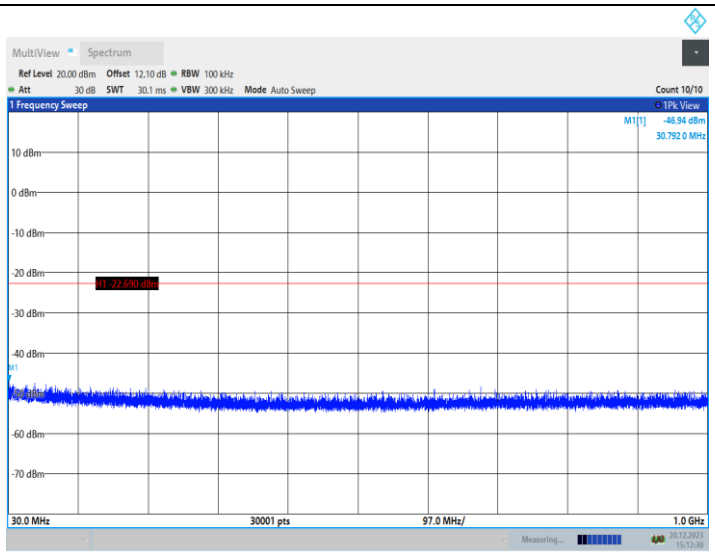

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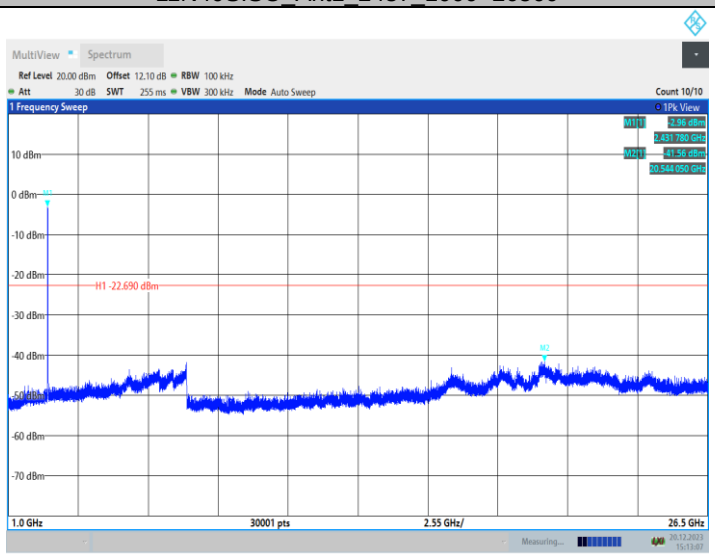

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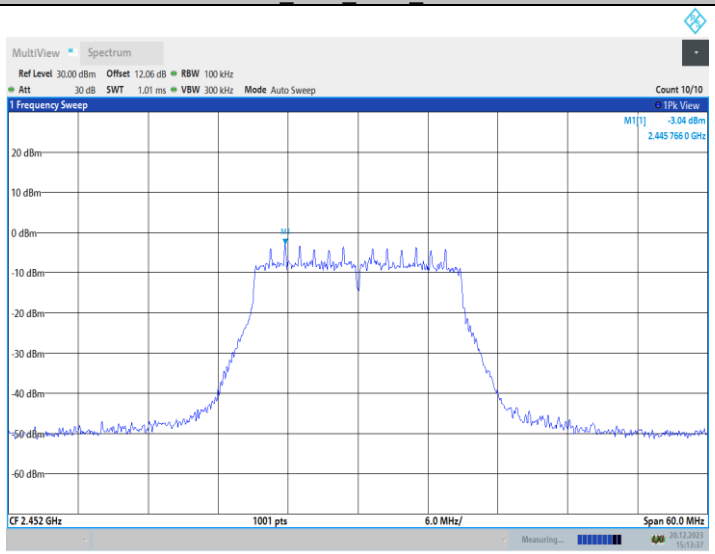

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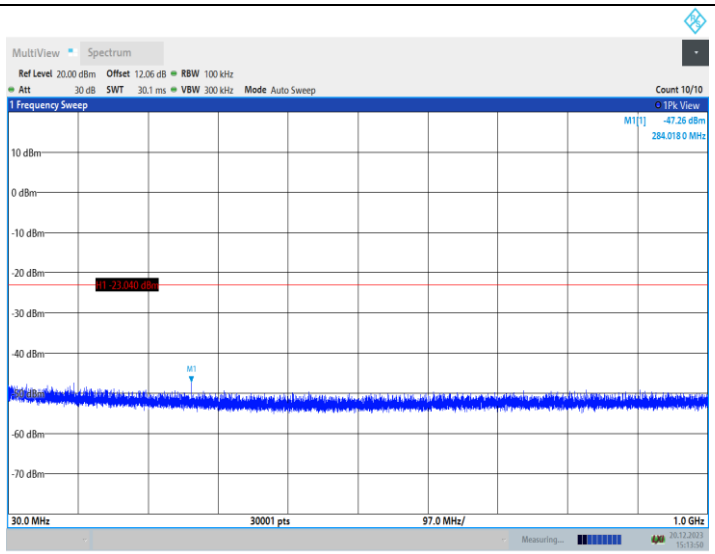

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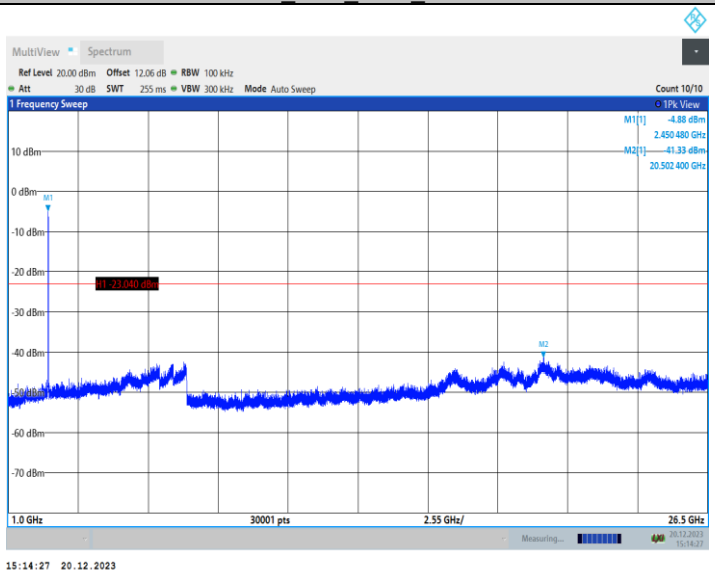
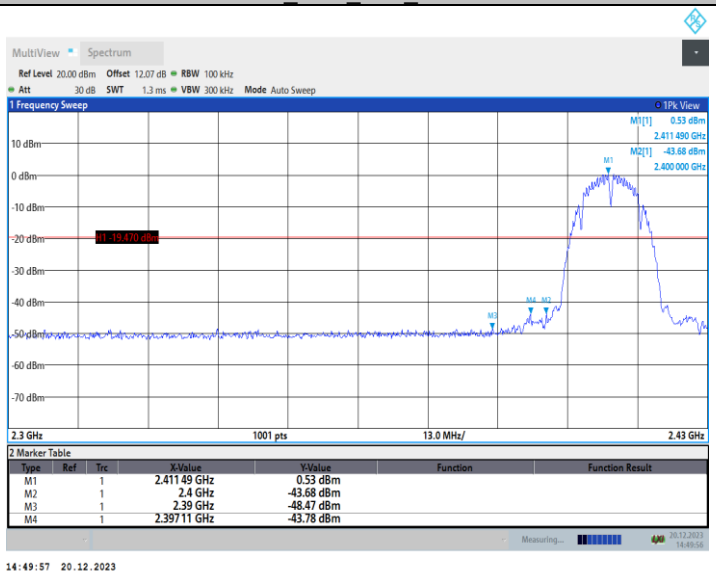


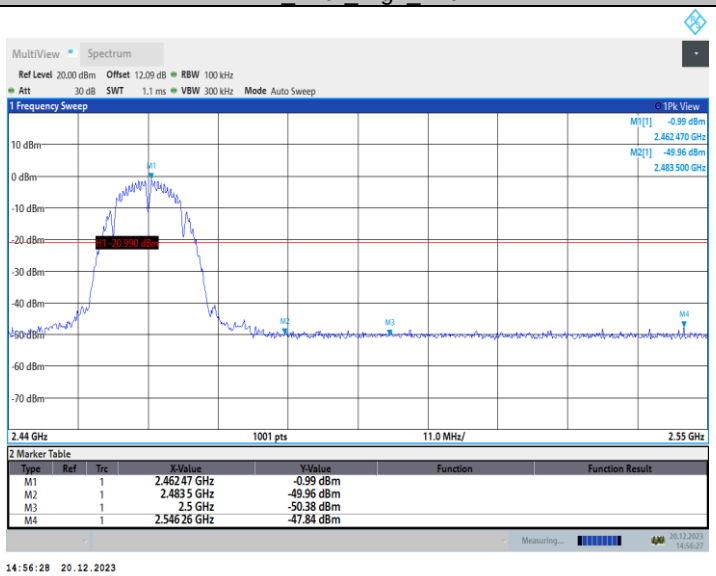
Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.53	-43.78	≤-19.47	PASS
		High	2462	-0.99	-47.84	≤-20.99	PASS
11G	Ant1	Low	2412	-1.48	-38.61	≤-21.48	PASS
		High	2462	-2.85	-47.65	≤-22.85	PASS
11N20SISO	Ant1	Low	2412	-2.48	-39.51	≤-22.48	PASS
		High	2462	-3.71	-47.34	≤-23.71	PASS
11N40SISO	Ant1	Low	2422	-2.93	-46.49	≤-22.93	PASS
		High	2452	-2.97	-48.51	≤-22.97	PASS

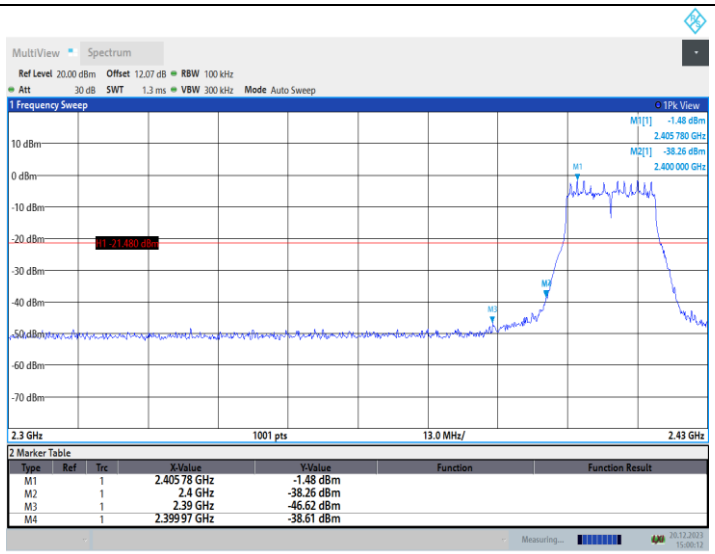
11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



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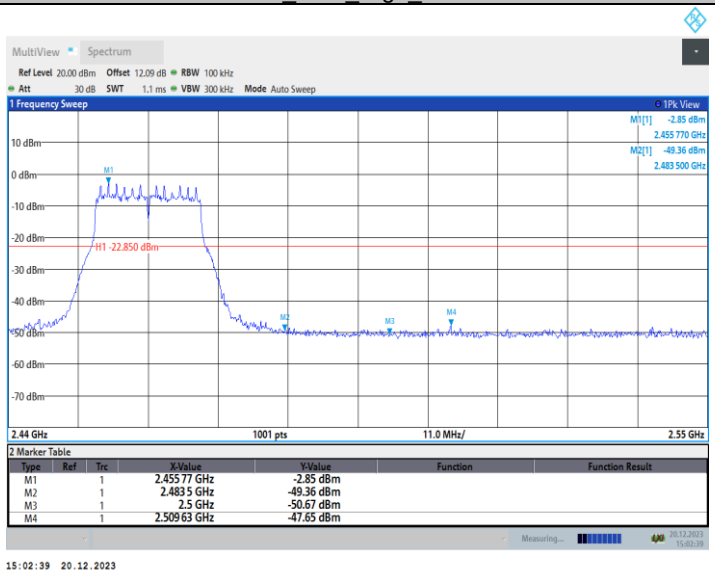

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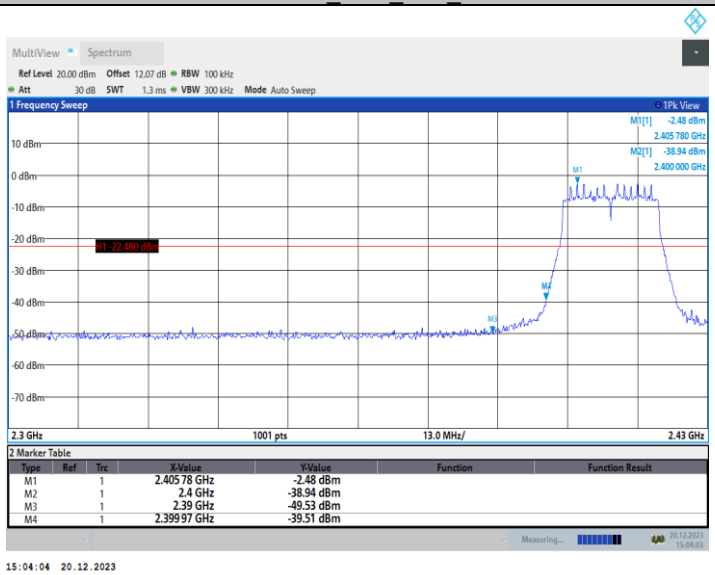

11N20SISO_Ant1_High_2462