

47 CFR PART 20 TEST REPORT

for

Zone DAS Two

Model No.: Zone DAS Two

FCC ID: 2ASQXZONEDASTWO

of

Applicant: Airgain

Address: 3611 Valley Centre Drive, Ste. 150 San Diego, CA 92130 USA

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22504-24316-P-20

Certification of Test Report

Applicant : ZQAM Communications Corporation
3F., No.6, Innovation Road II, Science Park, Hsingchu 30076,
Taiwan

Manufacturer : ZQAM Communications Corporation
3F., No.6, Innovation Road II, Science Park, Hsingchu 30076,
Taiwan

Tested Equipment :
Type Description : Zone DAS Two
Model Number : Zone DAS Two
Brand Name : ZYXEL
Operation Frequency : Please see chapter 2.3
Antenna type / Gain : LTE Band 12: 1.94 dBi
LTE Band 13: 2.33 dBi
LTE Band 25: 3.17 dBi
LTE Band 30: 2.46 dBi
LTE Band 66: 3.17 dBi
NR Band 77: 4.14 dBi
RF Output Power : LTE Band 12: 24.08 dBm
LTE Band 13: 24.88 dBm
LTE Band 25: 22.85 dBm
LTE Band 30: 23.05 dBm
LTE Band 66: 24.16 dBm
NR Band 77: 26.79 dBm
Power Supply : 120 Va.c.

Regulation Applied : 47CFR Part 20 (2023)

Test Method : 47CFR Part 20 (2023)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2023) and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 20.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

May 27, 2025

Sora Kuo



Date

WTS-Lab.

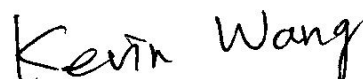
Name

Signature

Technical responsibility for area of testing:

May 27, 2025

Kevin Wang



Date

WTS

Name

Sign



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1. Summary

1.1 Description of tested equipment

This equipment under tested.

This test report only contains test requirements specified in 47CFR Part 20 for LTE & 5G NR function.

1.2 Date of testing processing

Date of receipt of test item: April 25, 2025

Date of test: From April 25, 2025 to May 26, 2025

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **47 CFR Part 2 (2023), 47 CFR Part 20 (2023)
47CFR Part 22 (2023), Part 24 (2023) and Part 27 (2023)**

Deviation from test standard: None

1.5 Summary of test result

Harmonized Standard Requirements and Conformance Test Specifications				
Item	Test Content	KDB Clause	FCC Reference	Test Result
3.2	AGC threshold level	935210 D05 v01r02 ch3.2	- -	Pass
4.2	Out-of-band rejection	935210 D05 v01r02 ch3.3	- -	Pass
5.2	Input vs output comparison	935210 D05 v01r02 ch3.4	- -	Pass
6.2	Mean output power and amplifier gain	935210 D05 v01r02 ch3.5	§2.1046, §27.50(a)	Pass
7.2	Out-of-band/out-of-block (including intermodulation) and spurious emissions	935210 D05 v01r02 ch3.6	- -	Pass
8.2	Frequency stability	935210 D05 v01r02 ch3.7	§2.1055, §27.54	Pass
9.2	Radiated spurious emissions	935210 D05 v01r02 ch3.8	§2.1053, §27.53(a)	Pass



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2. General Information

2.1 Testing laboratory

2.1.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

2.1.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

2.1.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.

2.2 Details of approval holder

Name:	ZQAM Communications Corporation
Street:	3F., No.6, Innovation Road II, Science Park
Town:	Hsinchiu
Country:	Taiwan

Manufacturer: (if different from applicant)

Name:	./.
Street:	./.
Town:	./.
Country:	./.

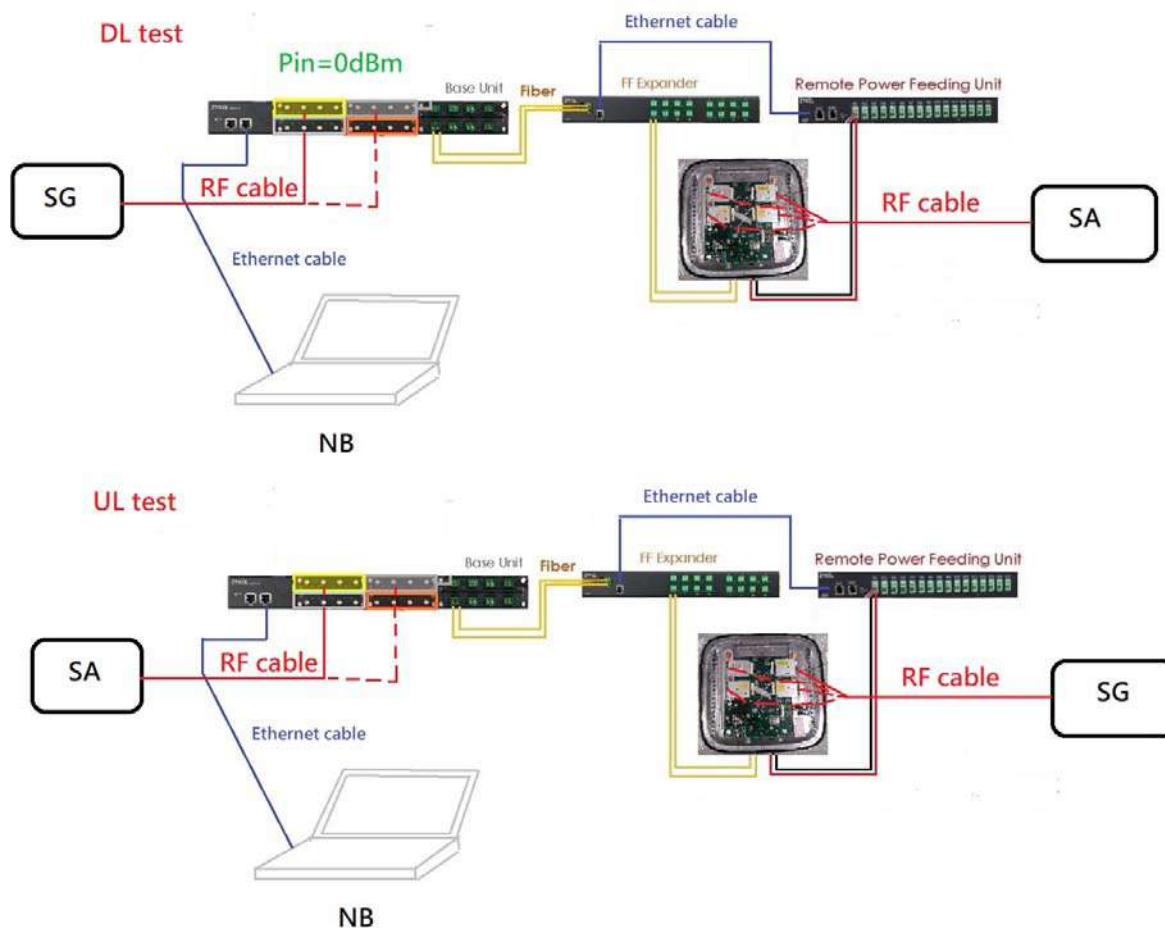
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2.3 Description of Tested System

The EUT was tested as below setup.

ZD2 System connected picture



Operating band

Uplink:

Band12:699~716MHz
 Band13 :777~787MHz
 Band 25 : 1850~1915MHz
 Band 30 : 2305-2315MHz
 Band 66 :1710~1780MHz
 5G N77: 3700~3980 MHz

Downlink:

Band12 : 729~746MHz
 Band13 :746~756MHz
 Band 25 : 1930~1995MHz
 Band 30 : 2350-2360MHz
 Band 66 : 2110~2200MHz
 5G N77: 3700~3980 MHz



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Antenna Type: Widcband Dome Ceiling Antenna

Antenna Gain: LTE Band 12: 1.94 dBi

LTE Band 13: 2.33 dBi

LTE Band 25: 3.17 dBi

LTE Band 30: 2.46 dBi

LTE Band 66: 3.17 dBi

NR Band n77: 4.14 dBi

Technical data

Mode	Frequency (Up Link) MHz	Output Level dBm	Frequency (Down Link) MHz	Output Level dBm
LTE Band 12	704	-10.73	734	24.08
LTE Band 13	782	-14.45	751	24.88
LTE Band 25	1882.5	-16.07	1962.5	22.85
LTE Band 30	2310	-11.26	2355	23.05
LTE Band 66	1755	-13.11	2170	24.16
NR Band n77	3750	-10.62	3930	26.79

Power supply: 120Va.c.

2.4 Test environment

Relative humidity content: 54 %

Air pressure: 86-103 Kpa



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2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed.

For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted spurious emission	Expanded Uncertainty : 1.69 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A)	Expanded Uncertainty : 0.009-30 MHz : 1.85 dB 30-1000 MHz : 3.92 dB 1-18 GHz : 3.19 dB 18-40 GHz : 1.90 dB
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.27 dB

The decision rule is: Measurement uncertainty is not taken into account.



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2.6 Test Equipment List

Mean Output and booster Gain(AGC)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2025/5/17	2026/5/16
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Frequency stability

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2024/7/23	2025/7/22
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2025/5/17	2026/5/16
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Input-versus-output signal comparison & Out-of-band emissions & Out-of-band rejection & Conducted Spurious emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2025/5/17	2026/5/16
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13



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Out-of-block (including intermodulation) emissions

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	ME2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2025/5/17	2026/5/16
ETSTW-RE 190	VXG vector signal generator	M9484C	MY63180023	KEYSIGHT	2024/12/8	2025/12/7
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2025/5/17	2026/5/16
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168& EMCI-N-6-06	01380&AT-06007	SCHWARZBECK & EMC	2025/3/10	2026/3/9
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2025/3/7	2026/3/6
ETSTW-RE 195	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-RE 196	SMA 30dB Fixed Attenuator	MVE2407-30	F30012	MVE	2025/3/14	2026/3/13
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2024/8/1	2025/7/31
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2024/9/13	2025/9/12
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2024/9/13	2025/9/12
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2024/9/13	2025/9/12
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2024/6/25	2025/6/24
ETSTW-Cable 049	Microwave Cable	FA147A0015M2020	30064-1	UTIFLEX	2024/8/15	2025/8/14



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3. AGC threshold level

3.1 Test procedure

- Connect a signal generator to the input of the EUT.
- Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as necessary.
- The signal generator should initially be configured to produce either of the required test signals (i.e., broadband or narrowband).
- Set the signal generator frequency to the center frequency of the EUT operating band.
- While monitoring the output power of the EUT, measured using the methods of 3.5.3 or 3.5.4, increase the input level until a 1 dB increase in the input signal power no longer causes a 1 dB increase in the output signal power.
- Record this level as the AGC threshold level.
- Repeat the procedure with the remaining test signal.

3.2 Test Results

Test date: May 12, 2025

Temperature: 23.4°C

Humidity: 58.0%

Tester: Sora

LTE Band 12 10 MHz Bandwidth

LTE Band12 10MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	734	5	22.88	17.88	20.15	15.15
AGC threshold		2	24.08	22.08	20.19	18.19
		1	23.68	22.68	20.02	19.02
LTE Band12 10MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	737.5	5	22.99	17.99	20.11	15.11
AGC threshold		2	23.78	21.78	20.16	18.16
		1	23.37	22.37	19.68	18.68
LTE Band12 10MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	741	5	22.97	17.97	20.22	15.22
AGC threshold		2	24.08	22.08	20.26	18.26
		1	23.77	22.77	20.33	19.33



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LTE Band12 10MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	704	-34	-11.5	22.5	-10.73	23.27
AGC threshold		-37	-13.54	23.46	-13.57	23.43
		-38	-14.33	23.67	-14.35	23.65
LTE Band12 10MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	707.5	-34	-11.82	22.18	-10.76	23.24
AGC threshold		-37	-13.79	23.21	-13.37	23.63
		-38	-14.58	23.42	-14.29	23.71
LTE Band12 10MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	711	-34	-12.97	21.03	-12.57	21.43
AGC threshold		-37	-15.1	21.9	-15.05	21.95
		-38	-15.78	22.22	-15.87	22.13

LTE Band 13 10 MHz Bandwidth

LTE Band13 10MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	751	6	24.88	18.88	20.77	14.77
AGC threshold		3	24.73	21.73	20.58	17.58
		2	24.81	22.81	20.82	18.82
LTE Band13 10MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	782	-37	-20.76	16.24	-14.45	22.55
AGC threshold		-40	-16.41	23.59	-16.52	23.48
		-41	-17.1	23.9	-17.45	23.55

LTE Band 25 10 MHz Bandwidth

LTE Band25 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1940	3	22.08	19.08	18.44	15.44
AGC threshold		0	22.5	22.5	18.15	18.15
		-1	22.23	23.23	18.22	19.22
LTE Band25 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1962.5	2	22.85	20.85	18.77	16.77
AGC threshold		-1	22.16	23.16	19.05	20.05
		-2	22.29	24.29	18.54	20.54
LTE Band25 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1985	8	21.71	13.71	18.02	10.02
AGC threshold		5	21.94	16.94	18.35	13.35
		4	21.59	17.59	18.03	14.03



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LTE Band25 20MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1860	-35	-17.34	17.66	-16.18	18.82
AGC threshold		-38	-19.05	18.95	-18.07	19.93
		-39	-19.67	19.33	-18.83	20.17
LTE Band25 20MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1882.5	-36	-16.09	19.91	-16.07	19.93
AGC threshold		-39	-17.8	21.2	-17.97	21.03
		-40	-18.45	21.55	-18.59	21.41
LTE Band25 20MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1905	-35	-18.41	16.59	-17.05	17.95
AGC threshold		-38	-19.62	18.38	-19.03	18.97
		-39	-20.32	18.68	-19.65	19.35

LTE Band 30 10 MHz Bandwidth

LTE Band30 10MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	2355	4	22.8	18.8	19.22	15.22
AGC threshold		1	23.02	22.02	19.76	18.76
		0	23.05	23.05	19.71	19.71
LTE Band30 10MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	2310	-33	-11.26	21.74	-11.26	21.74
AGC threshold		-36	-12.97	23.03	-13.67	22.33
		-37	-13.68	23.32	-14.58	22.42

LTE Band 66 10 MHz Bandwidth

LTE Band66 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	2120	7	23.68	16.68	19.65	12.65
AGC threshold		4	24.03	20.03	19.68	15.68
		3	24.11	21.11	20.05	17.05
LTE Band66 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	2155	6	21.93	15.93	18.26	12.26
AGC threshold		3	22.16	19.16	17.88	14.88
		2	22.18	20.18	17.82	15.82
LTE Band66 20MHz Bandwidth - Down Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	2170	6	24.16	18.16	20.35	14.35
AGC threshold		3	23.66	20.66	19.99	16.99
		2	23.67	21.67	19.95	17.95



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LTE Band66 20MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1720	-35	-13.79	21.21	-14.16	20.84
AGC threshold		-38	-15.06	22.94	-16.63	21.37
		-39	-15.86	23.14	-17.53	21.47
LTE Band66 20MHz Bandwidth - Up Link			AWGN		narrowband	
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1755	-34	-13.85	20.15	-13.11	20.89
AGC threshold		-37	-16.63	20.37	-16.34	20.66
		-38	-17.42	20.58	-17.02	20.98
LTE Band66 20MHz Bandwidth - Up Link						
note	Freq(MHz)	Input level(dbm)	Output level(dbm)	Gain	Output level(dbm)	Gain
AGC threshold+3dB	1770	-33	-14.61	18.39	-14.32	18.68
AGC threshold		-36	-17.75	18.25	-16.75	19.25
		-37	-18.56	18.44	-17.56	19.44

5GNR n77

Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	10	23.11	13.11	21.96	11.96
AGC threshold		7	24.66	17.66	22.16	15.16
		6	24.73	18.73	22.86	16.86
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	7	22.89	15.89	21.16	14.16
AGC threshold		4	23.11	19.11	21.15	17.15
		3	23.03	20.03	21.29	18.29
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	11	25.94	14.94	21.82	10.82
AGC threshold		8	26.79	18.79	21.55	13.55
		7	26.61	19.61	21.65	14.65
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3750	-34	-11.62	22.38	-10.62	23.38
AGC threshold		-37	-13.84	23.16	-13.32	23.68
		-38	-14.67	23.33	-14.22	23.78
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3840	-32	-12.03	19.97	-11.34	20.66
AGC threshold		-35	-14.97	20.03	-13.77	21.23
		-36	-15.77	20.23	-15.52	20.48
Bandwidth : 100MHz			AWGN		narrowband	
note	Freq(MHz)	Input level(dBm)	Output level(dBm)	Gain	Output level(dBm)	Gain
AGC threshold+3dB	3930	-32	-17.11	14.89	-15.97	16.03
AGC threshold		-35	-19.18	15.82	-18.55	16.45
		-36	-19.95	16.05	-19.33	16.67



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4. Out-of-band rejection

4.1 Test procedure

- a) Connect a signal generator to the input of the EUT.
- b) Configure a swept CW signal with the following parameters:
 - 1) Frequency range = $\pm 250\%$ of the passband, for each applicable CMRS band (see also KDB Publication 935210 D02 [R7] and KDB Publication 634817 [R5] about selection of frequencies for testing and for grant listings).
 - 2) Level = a sufficient level to affirm that the out-of-band rejection is > 20 dB above the noise floor and will not engage the AGC during the entire sweep.
 - 3) Dwell time = approximately 10 ms.
 - 4) Number of points = $\text{SPAN}/(\text{RBW}/2)$.
- c) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.
- d) Set the span of the spectrum analyzer to the same as the frequency range of the signal generator.
- e) Set the resolution bandwidth (RBW) of the spectrum analyzer to be 1 % to 5 % of the EUT passband, and the video bandwidth (VBW) shall be set to $\geq 3 \times \text{RBW}$.
- f) Set the detector to Peak Max-Hold and wait for the spectrum analyzer's spectral display to fill.
- g) Place a marker to the peak of the frequency response and record this frequency as f_0 .
- h) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the -20 dB down amplitude, to determine the 20 dB bandwidth.
- i) Capture the frequency response of the EUT.
- j) Repeat for all frequency bands applicable for use by the EUT.

4.2 Test Results

Test date: May 8, 2025

Temperature: 25.6°C

Humidity: 60.0%

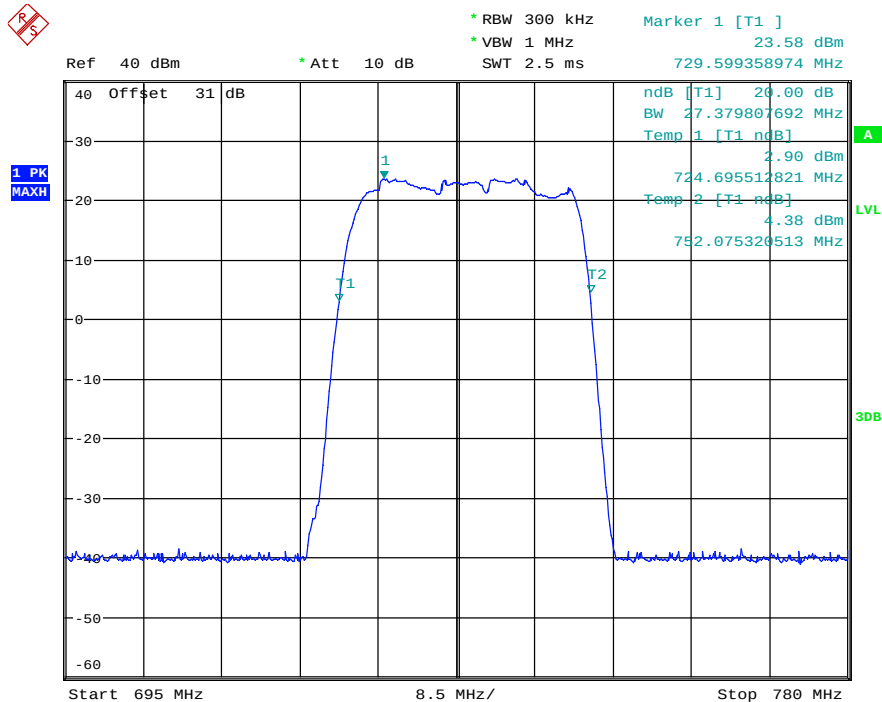
Tester: Sora



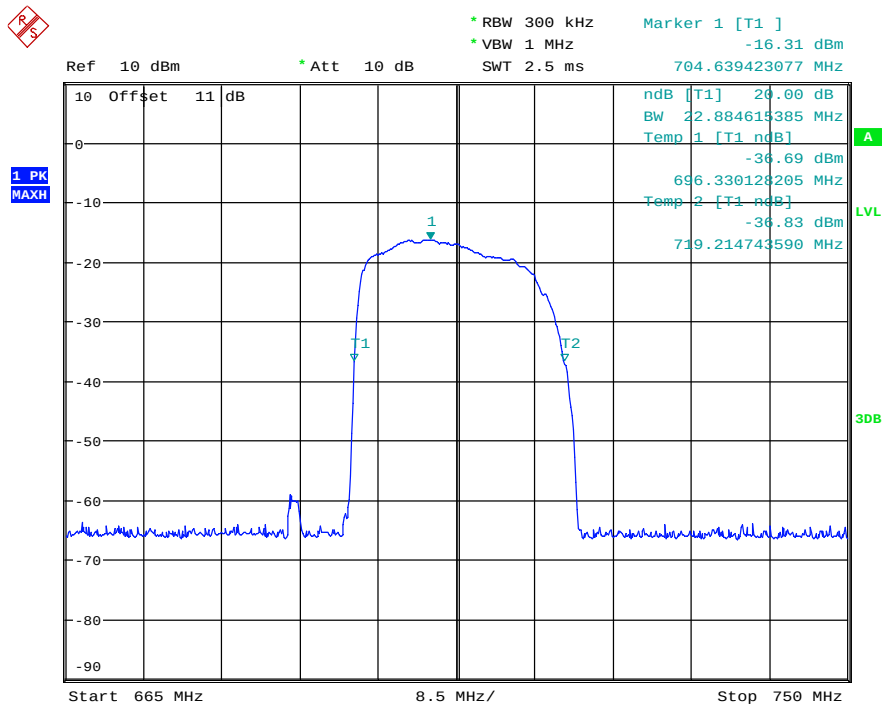
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 12



Date: 5.MAY.2025 14:54:05



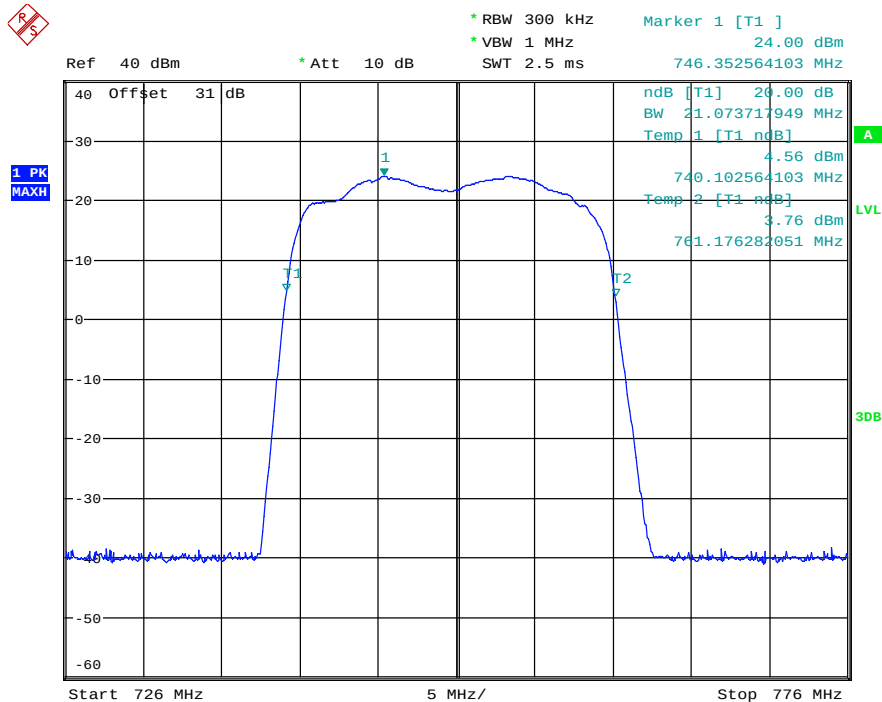
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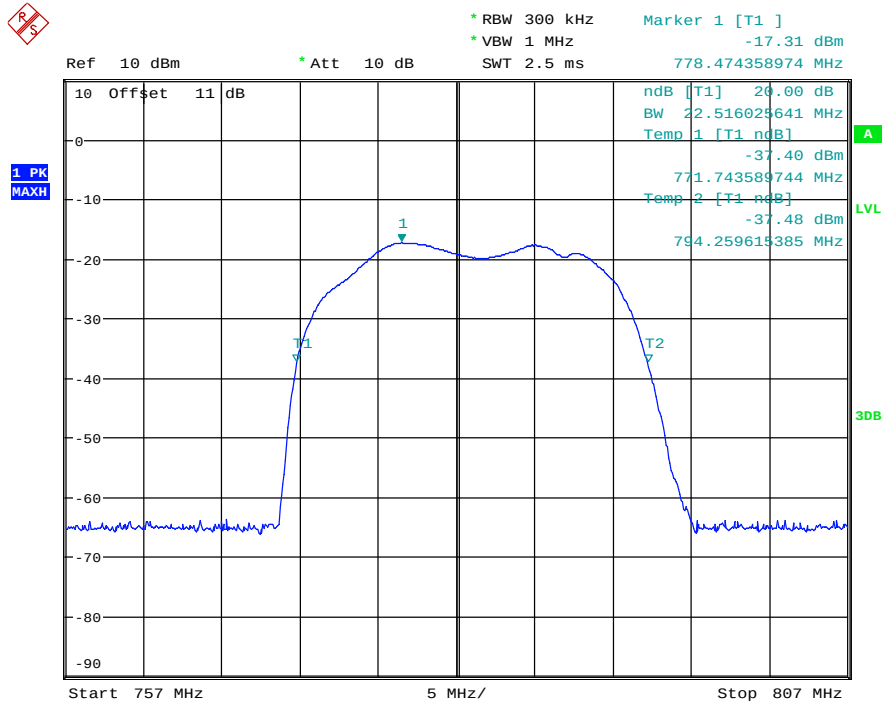
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 13



Date: 5.MAY.2025 11:34:22



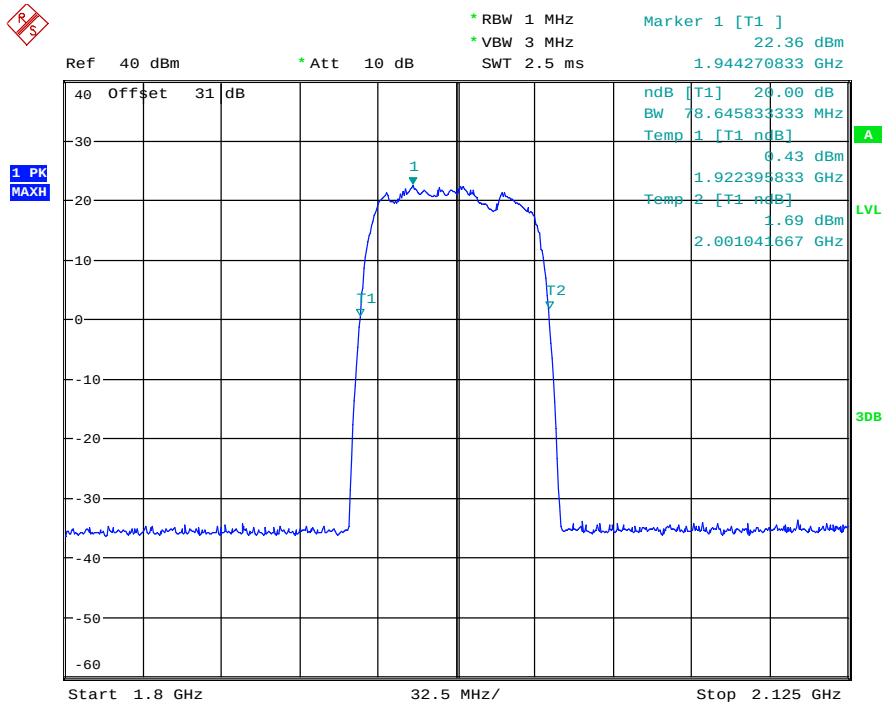
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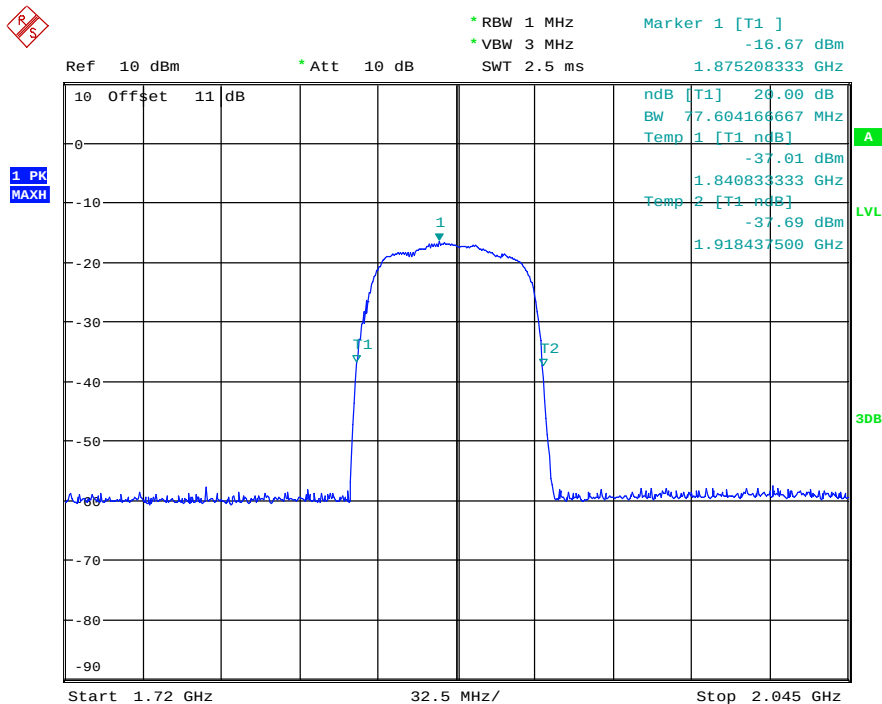
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 25



Date: 5.MAY.2025 11:15:27



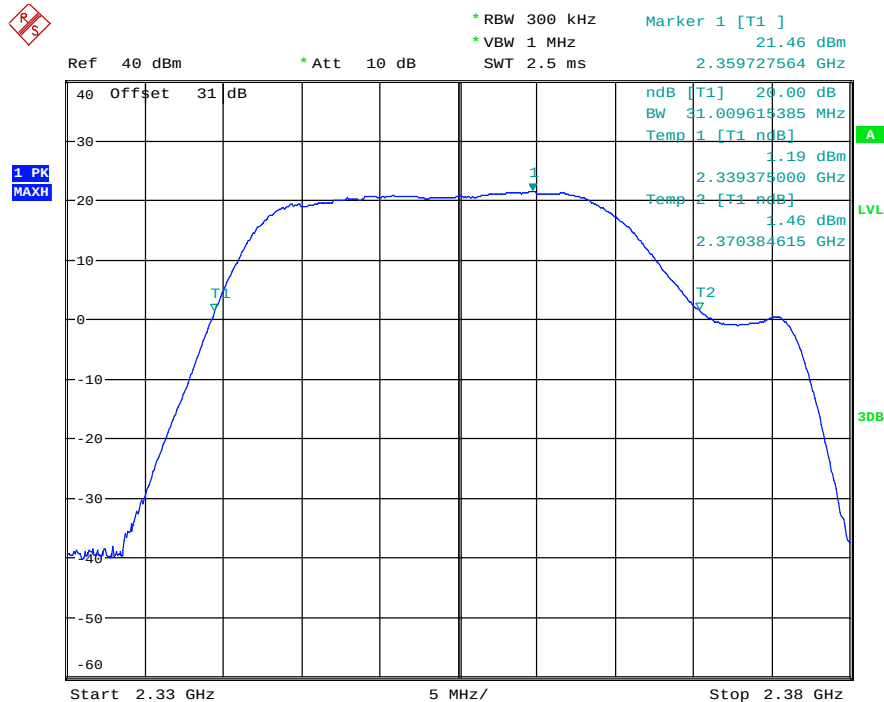
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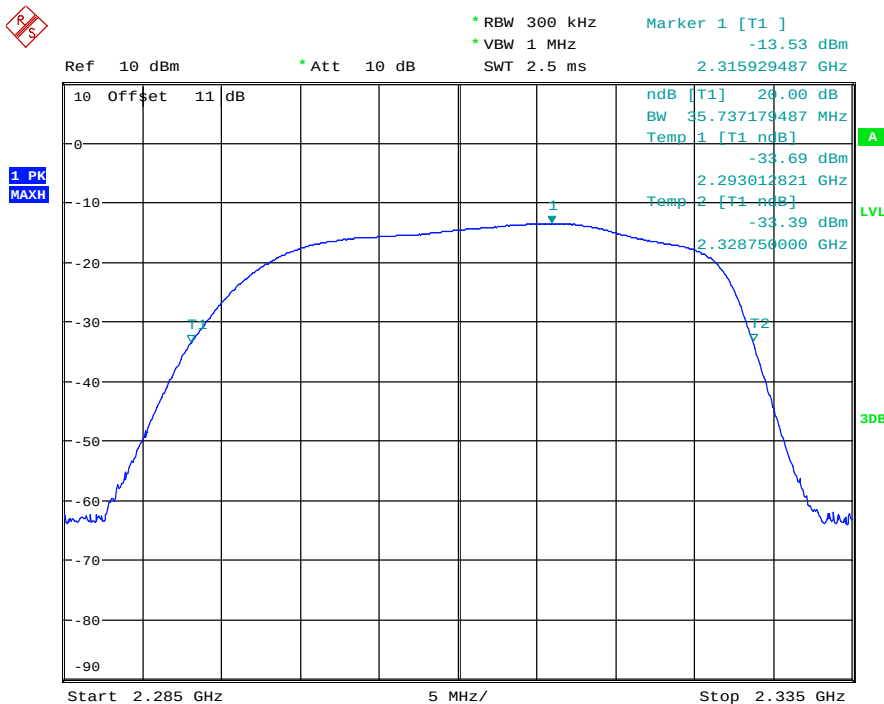
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 30



Date: 5.MAY.2025 11:01:04



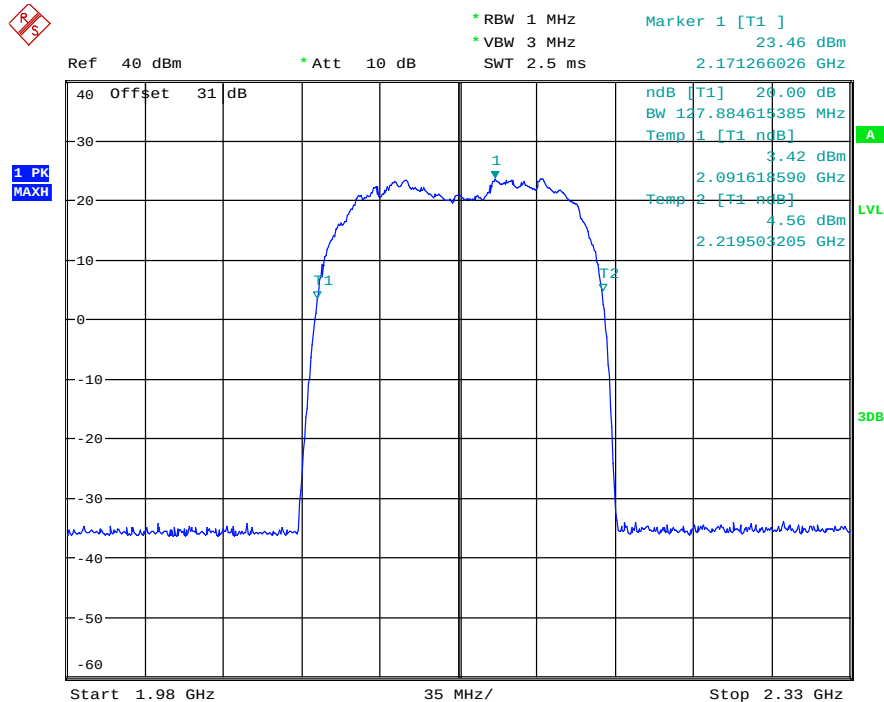
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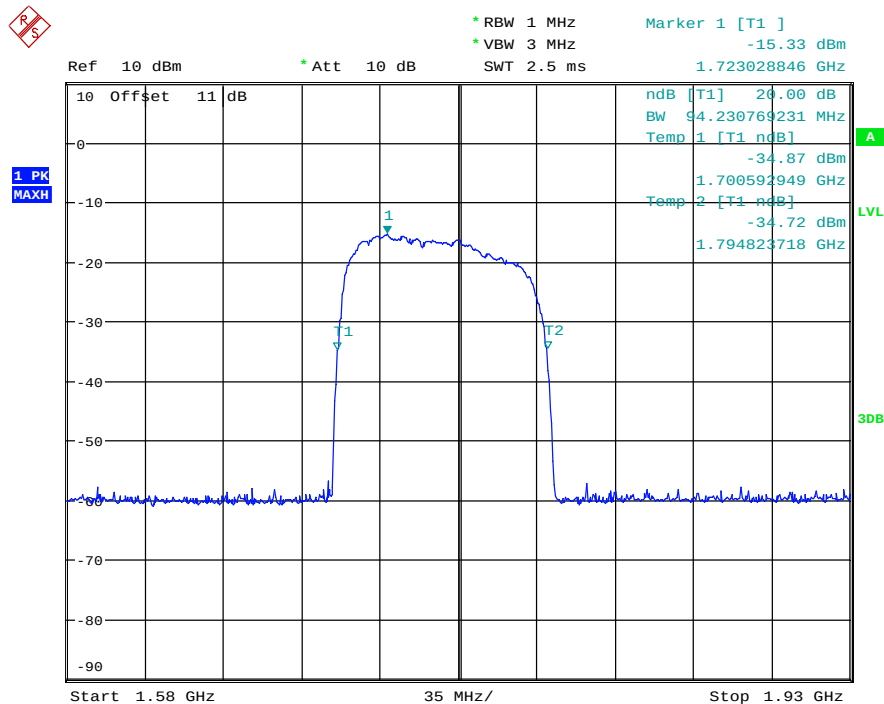
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 66



Date: 5.MAY.2025 14:06:26



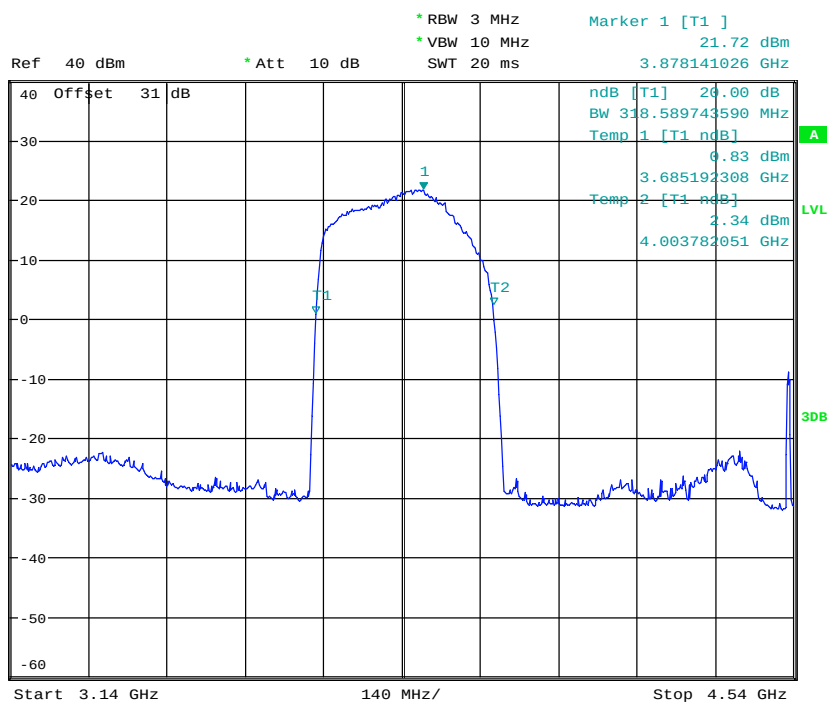
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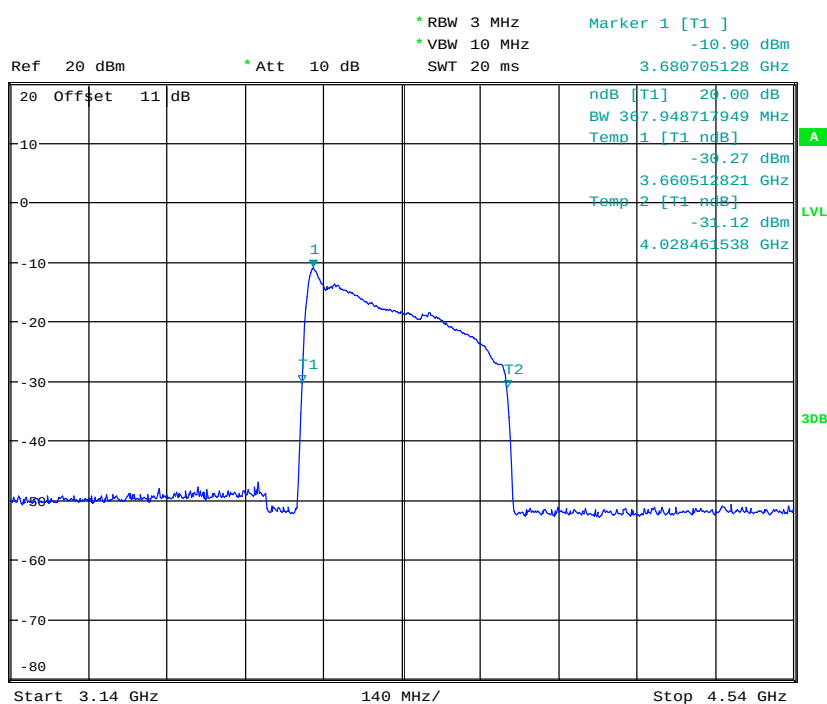
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

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Date: 8.MAY.2025 15:44:23



Date: 8.MAY.2025 16:07:13



Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

5. Input-versus-output signal comparison

5.1 Test procedure

- a) Connect a signal generator to the input of the EUT.
- b) Configure the signal generator to transmit the AWGN signal.
- c) Configure the signal amplitude to be just below the AGC threshold level (see 3.2), but not more than 0.5 dB below.
- d) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.
- e) Set the spectrum analyzer center frequency to the center frequency of the operational band under test. The span range of the spectrum analyzer shall be between 2 times to 5 times the emission bandwidth (EBW) or alternatively, the OBW.
- f) The nominal RBW shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be $\geq 3 \times \text{RBW}$.
- g) Set the reference level of the instrument as required to preclude the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope must be more than $[10 \log (\text{OBW} / \text{RBW})]$ below the reference level. Steps f) and g) may require iteration to enable adjustments within the specified tolerances.
- h) The noise floor of the spectrum analyzer at the selected RBW shall be at least 36 dB below the reference level.
- i) Set spectrum analyzer detection function to positive peak.
- j) Set the trace mode to max hold.
- k) Determine the reference value: Allow the trace to stabilize. Set the spectrum analyzer marker to the highest amplitude level of the displayed trace (this is the reference value) and record the associated frequency as f_0 .
- l) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the -26 dB down amplitude. The 26 dB EBW (alternatively OBW) is the positive frequency difference between the two markers. If the spectral envelope crosses the -26 dB down amplitude at multiple points, the lowest or highest frequency shall be selected as the frequencies that are the furthest removed from the center frequency at which the spectral envelope crosses the -26 dB down amplitude point.
- m) Repeat steps e) to l) with the input signal connected directly to the spectrum analyzer (i.e., input signal measurement).
- n) Compare the spectral plot of the input signal (determined from step m) to the output signal (determined from step l) to affirm that they are similar (in passband and rolloff characteristic features and relative spectral locations), and include plot(s) and descriptions in test report.
- o) Repeat the procedure [steps e) to n)] with the input signal amplitude set to 3 dB above the AGC threshold.
- p) Repeat steps e) to o) with the signal generator set to the narrowband signal.
- q) Repeat steps e) to p) for all frequency bands authorized for use by the EUT.



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5.2 Test Results

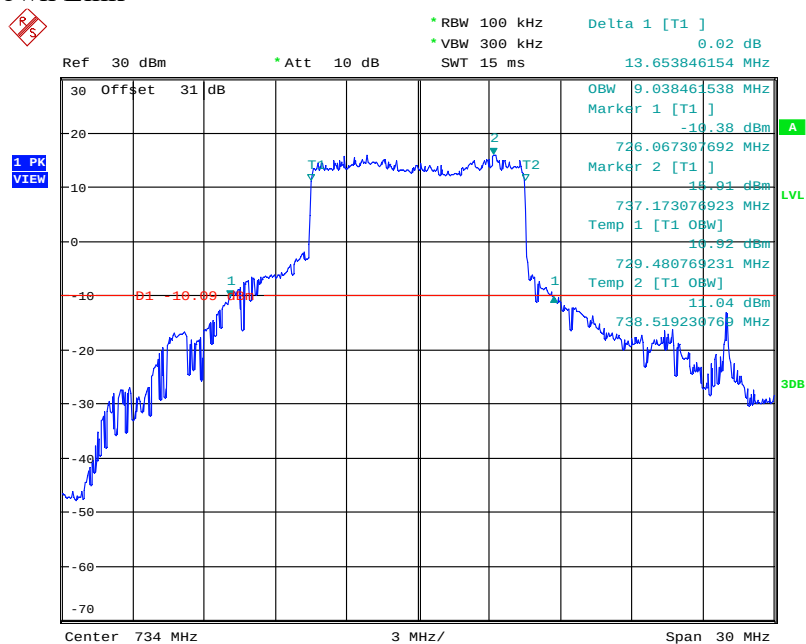
Test date: May 12, 2025

Temperature: 23.4°C

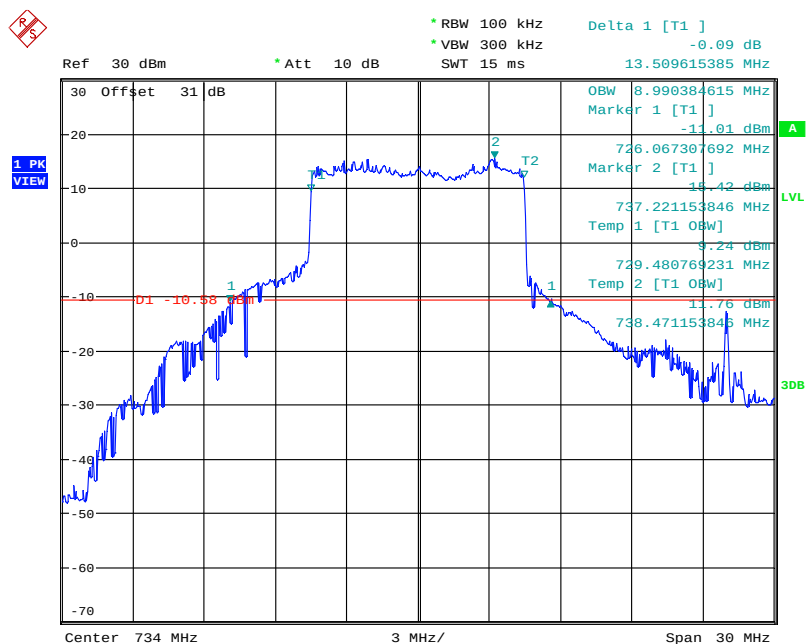
Humidity: 58.0%

Tester: Sora

LTE Band 12 Down Link



Date: 3.MAY.2025 13:20:53

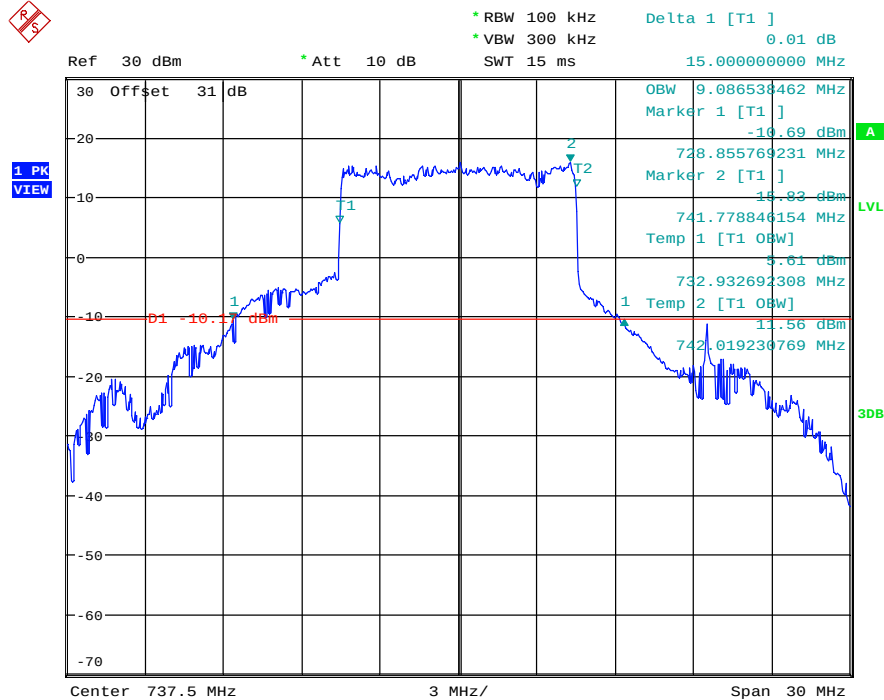


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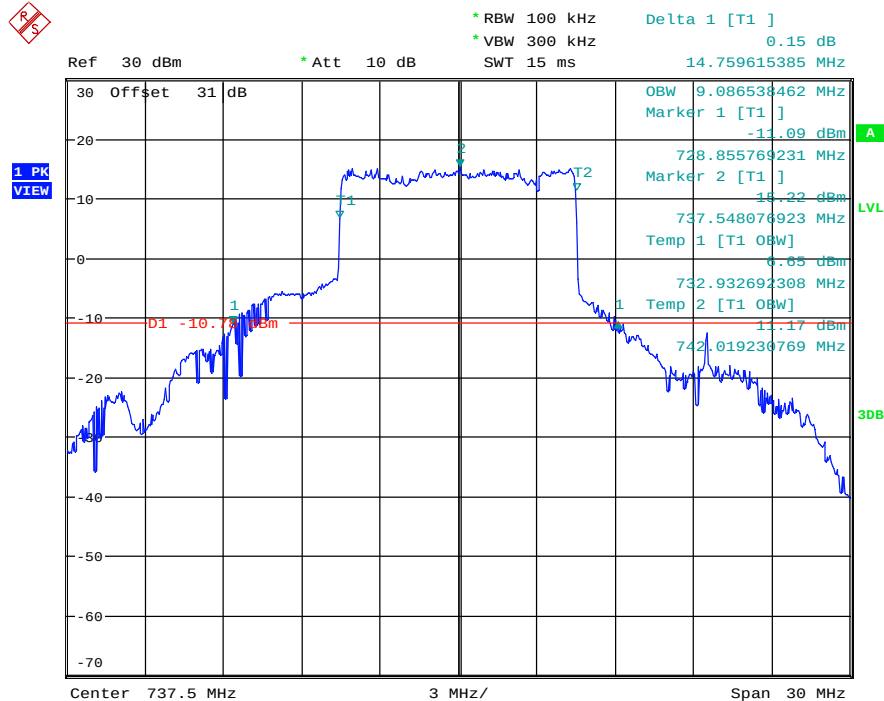


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 3.MAY.2025 13:32:48



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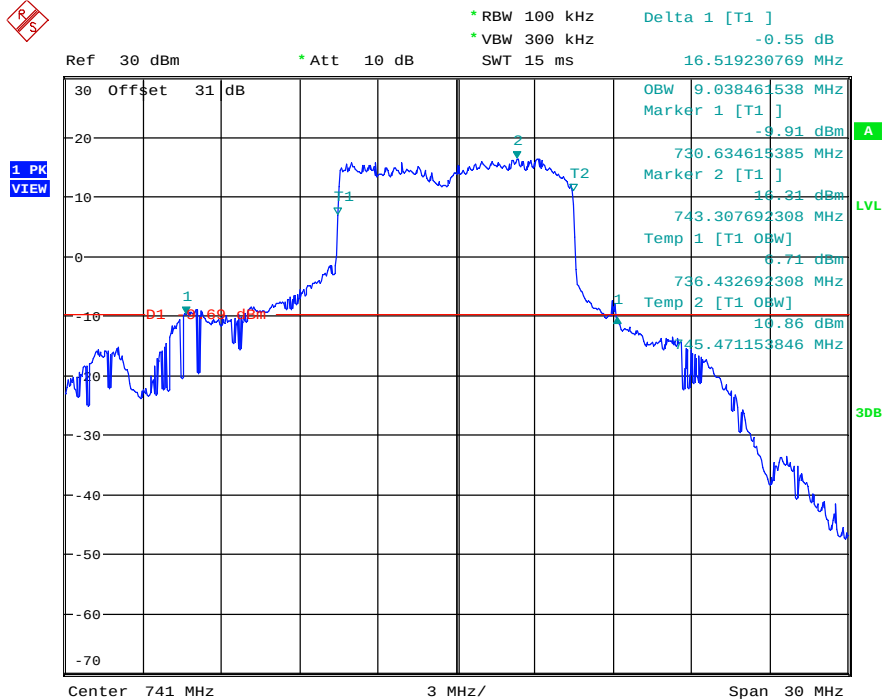


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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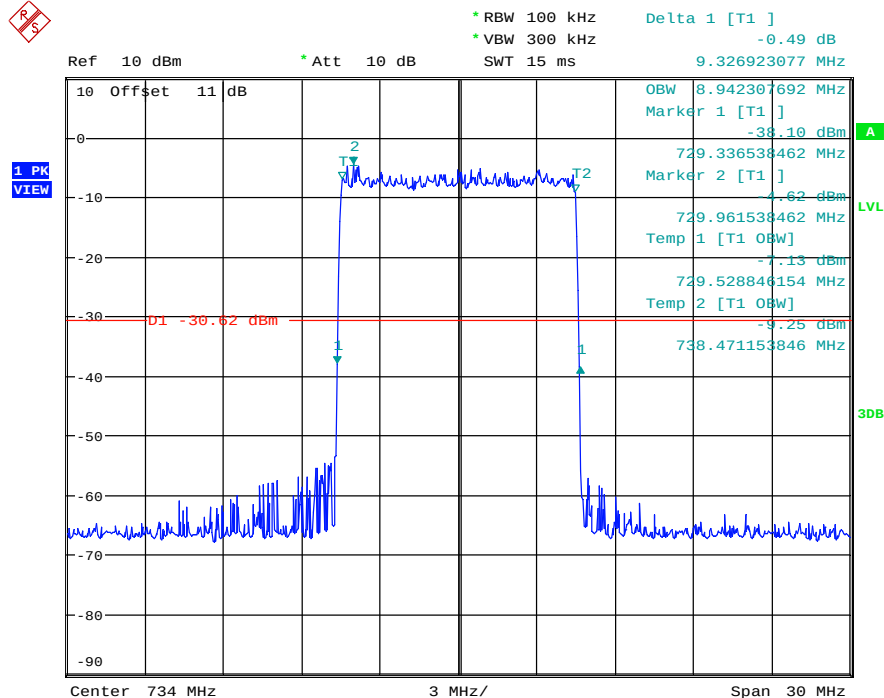


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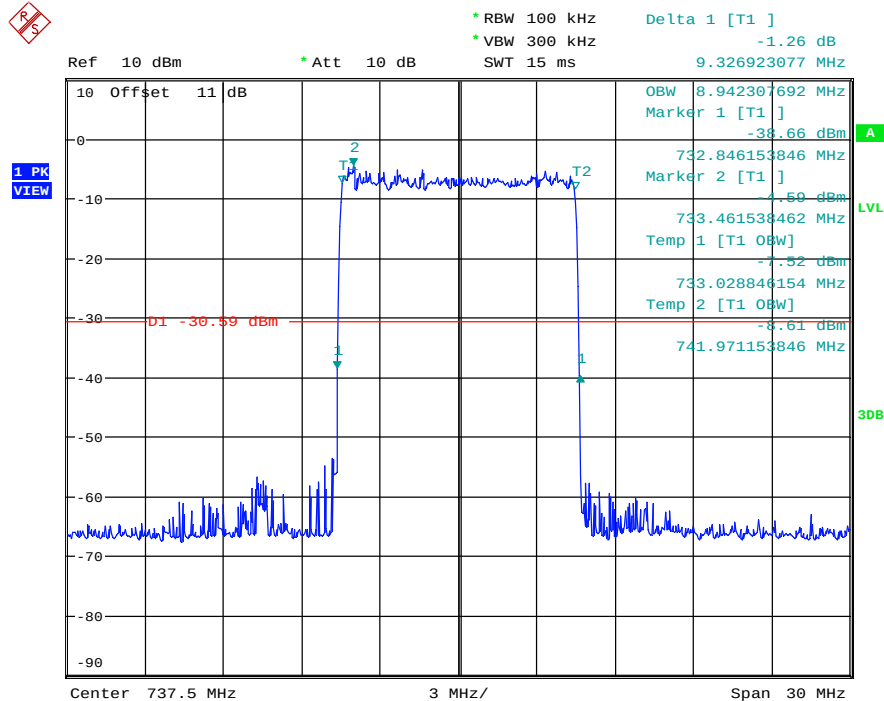


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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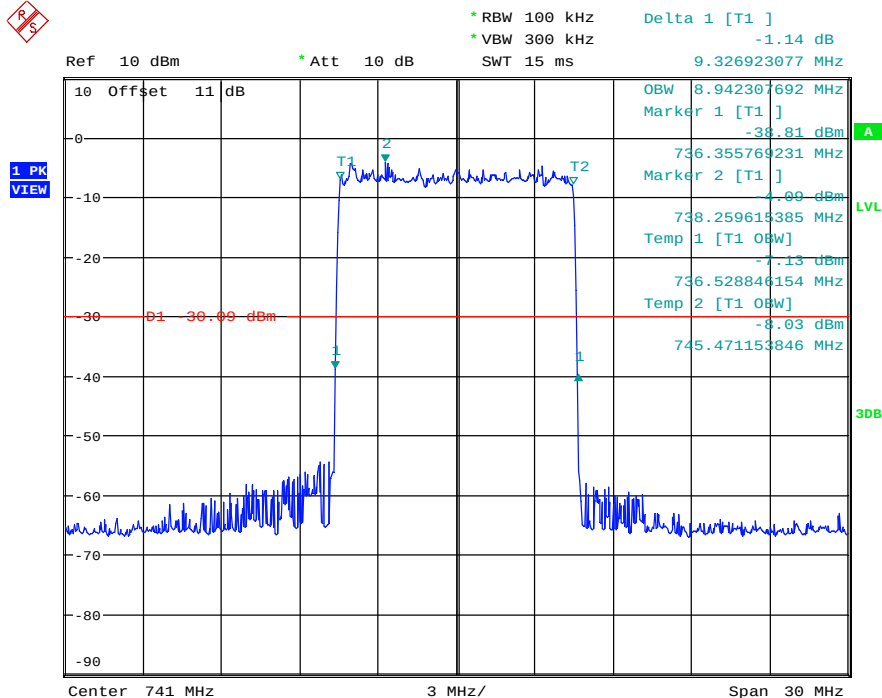


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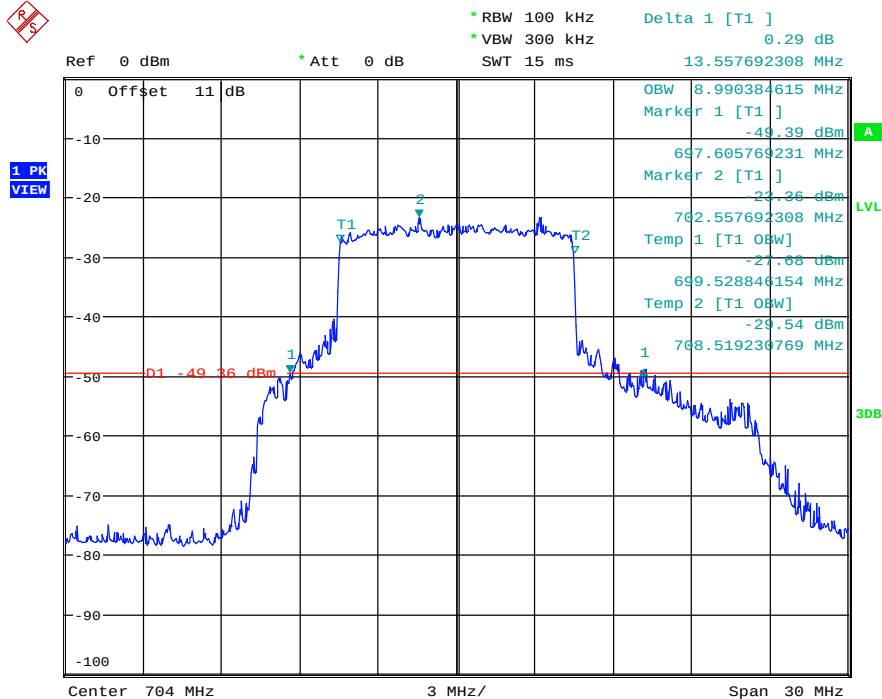
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 3.MAY.2025 11:40:46

LTE Band 12 Up Link

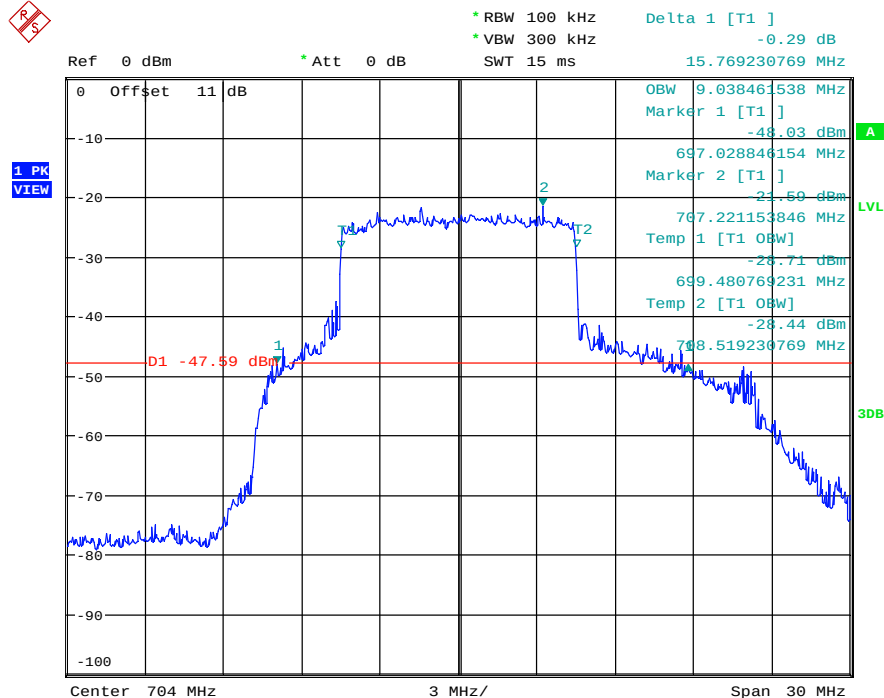


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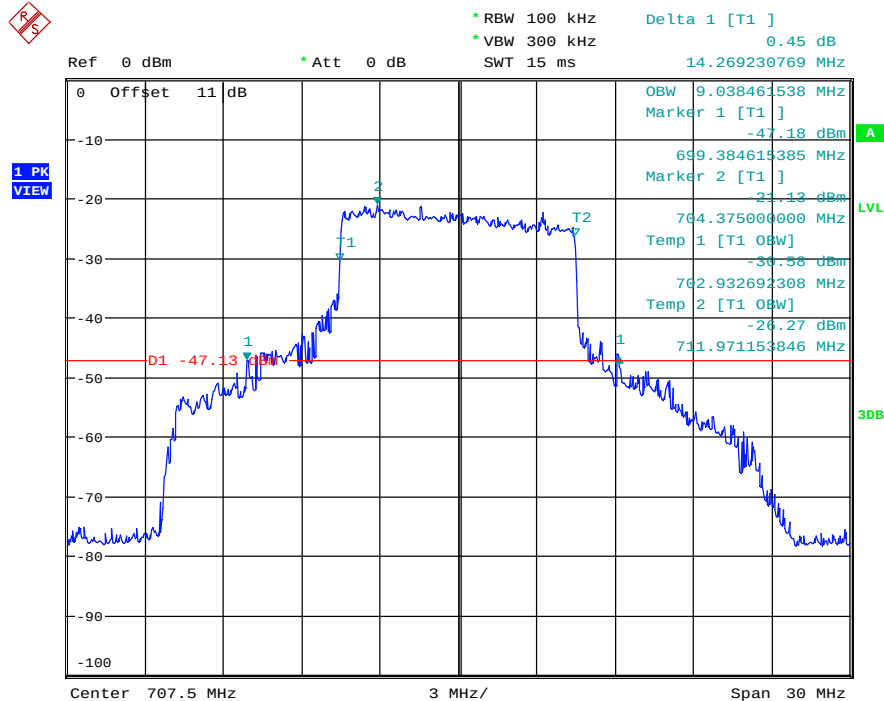


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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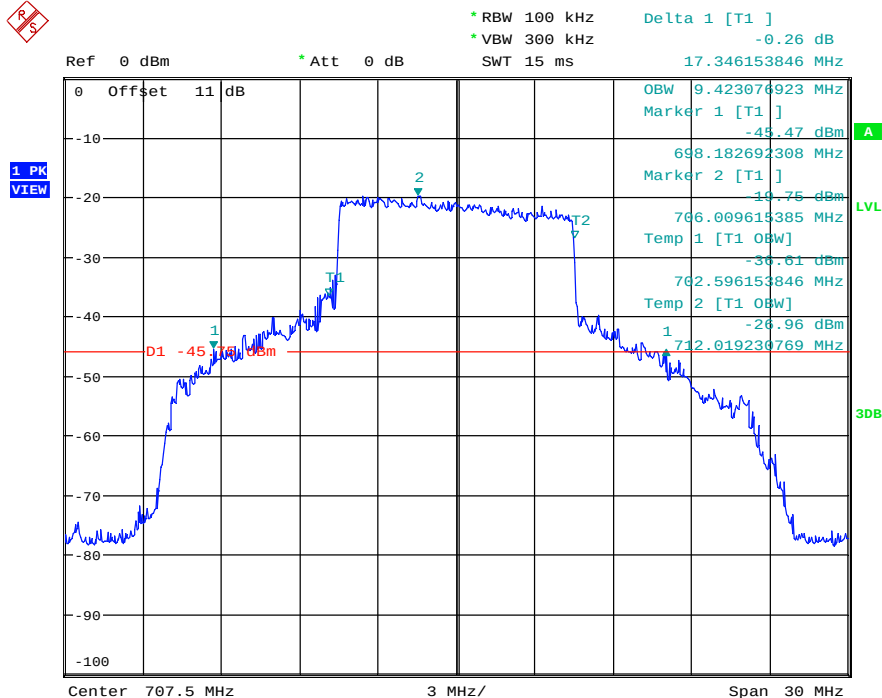


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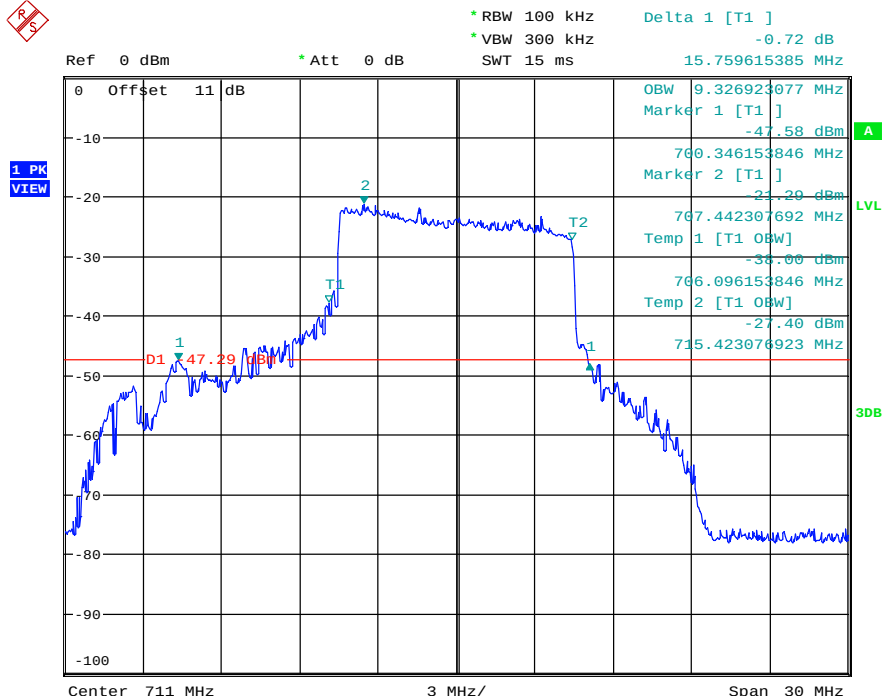


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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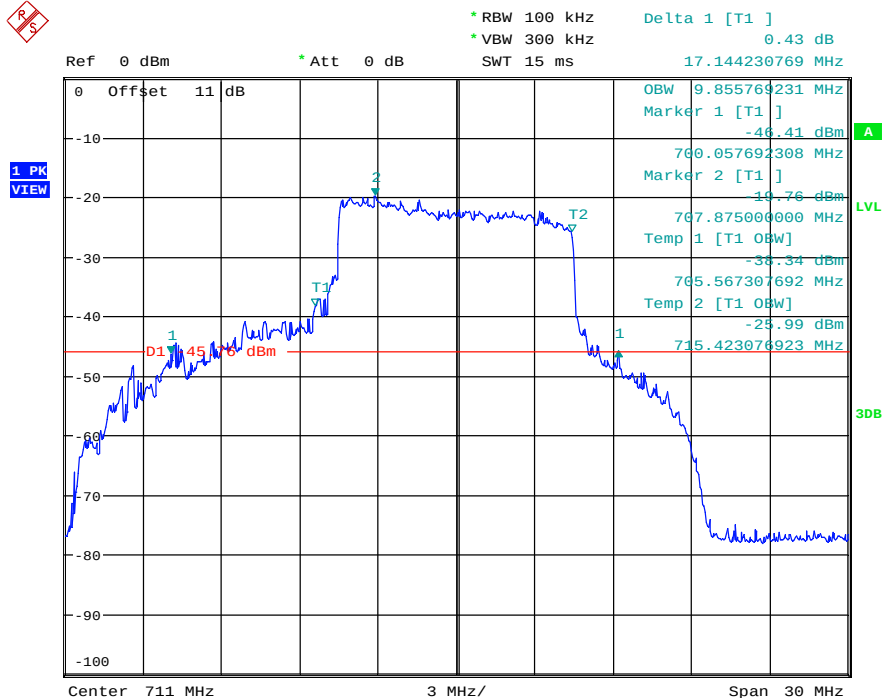


Date: 3.MAY.2025 12:47:16

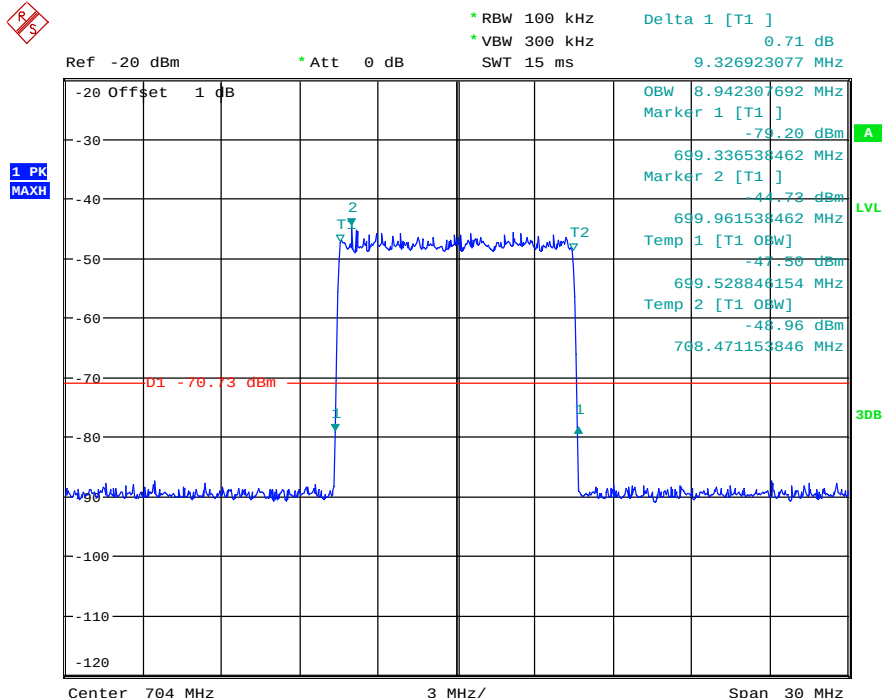


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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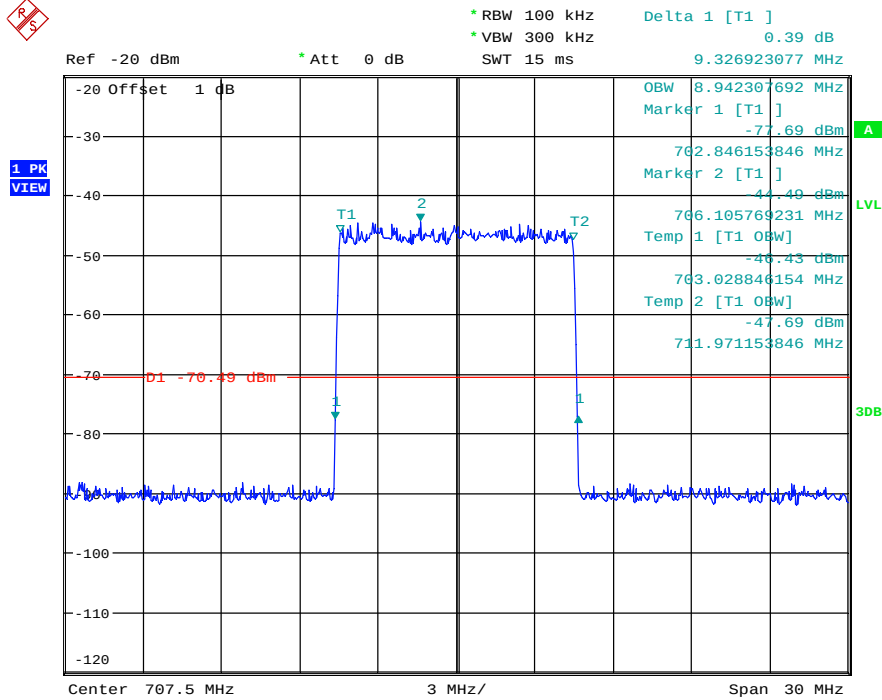


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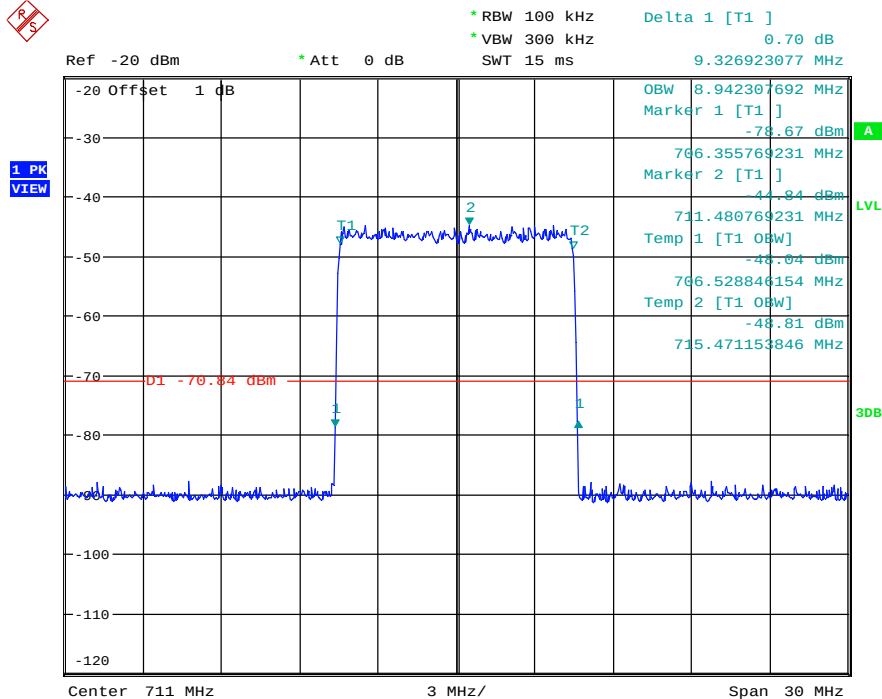


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 3.MAY.2025 12:12:43



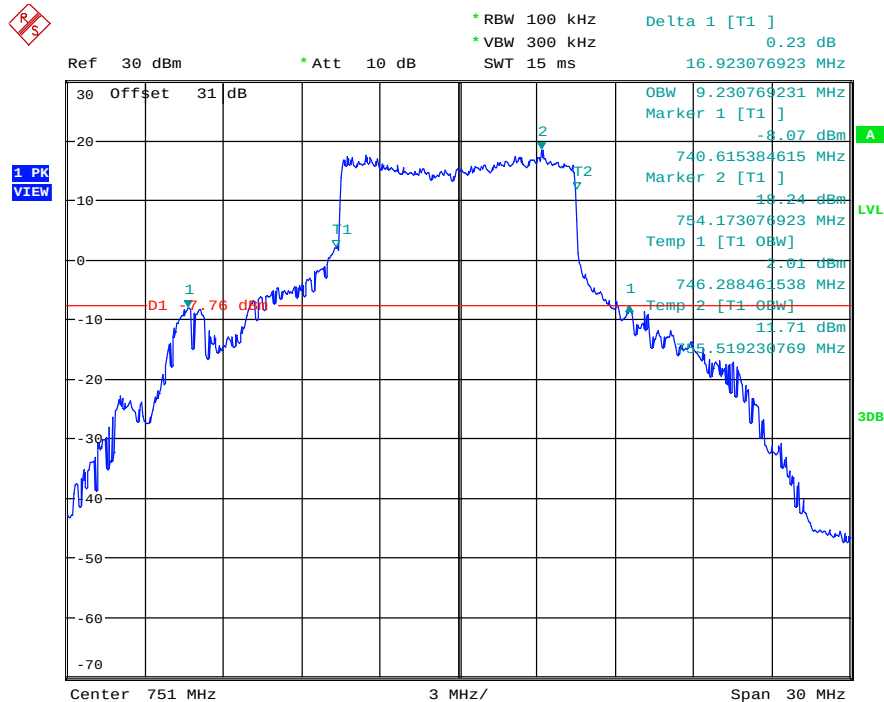
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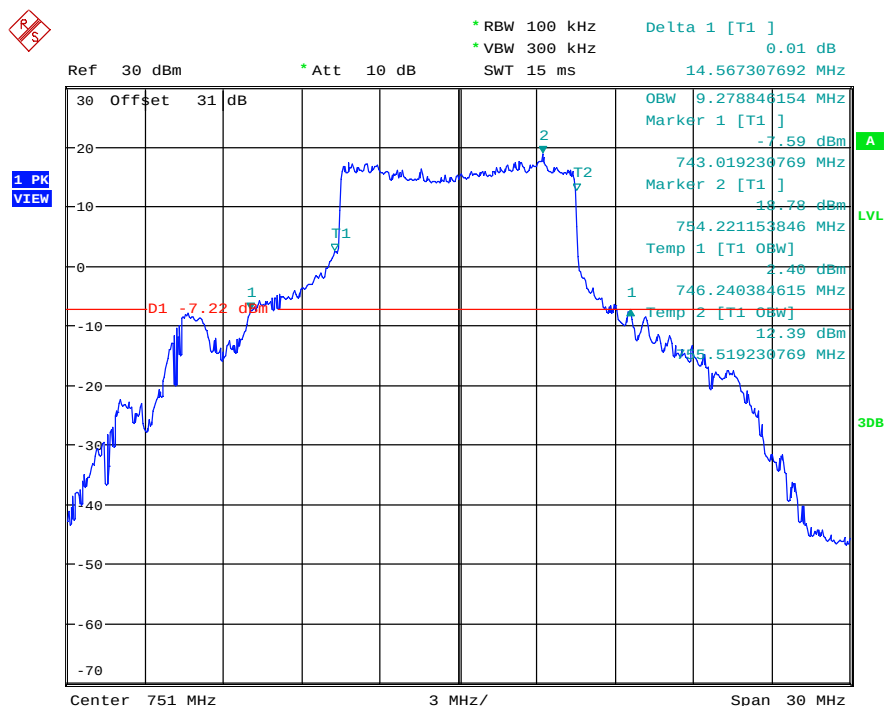
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 13 Down Link



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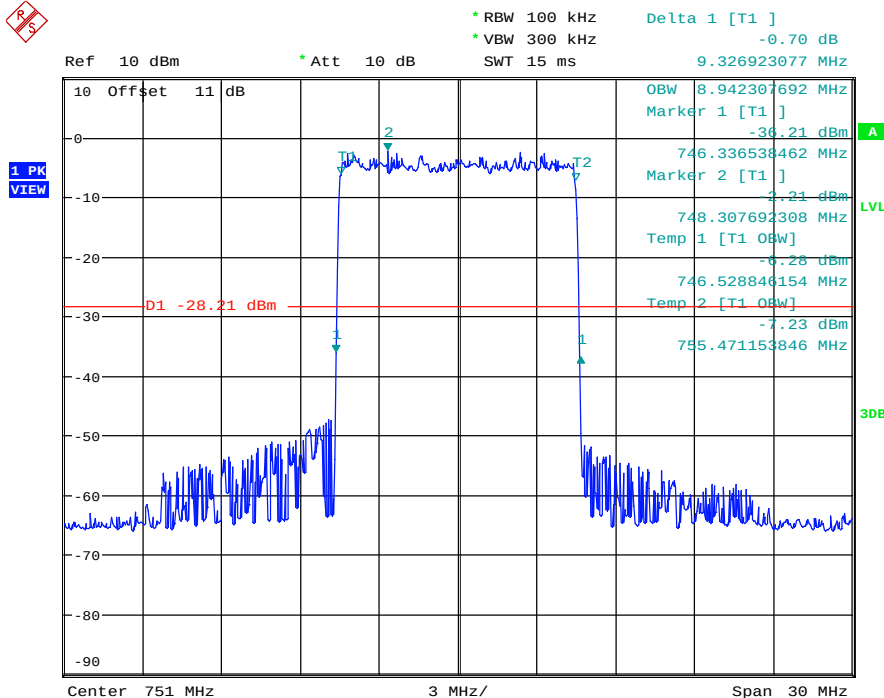


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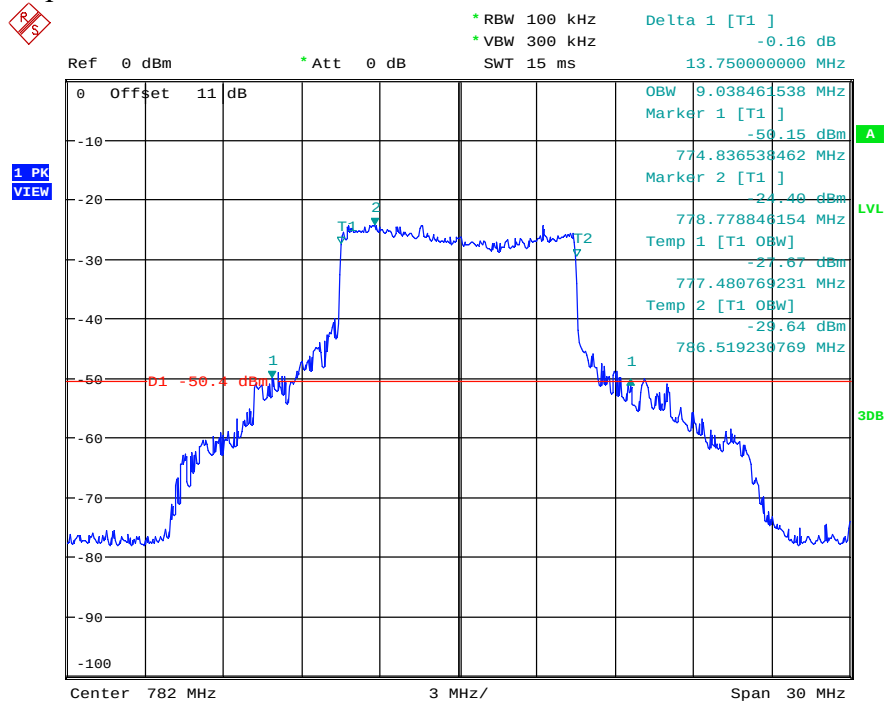
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 3.MAY.2025 14:04:42

LTE Band 13 Up Link

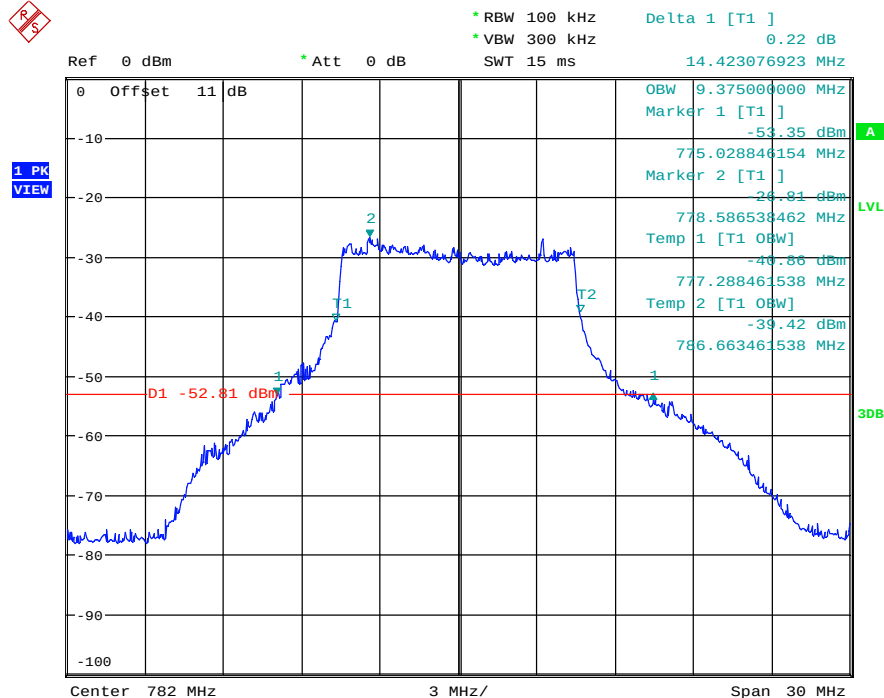


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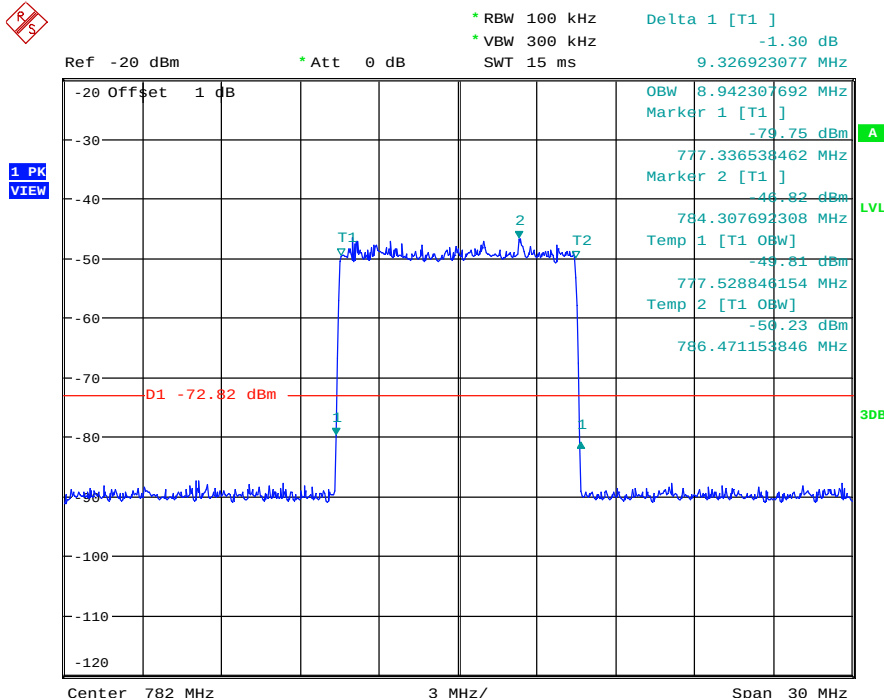


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 3.MAY.2025 14:36:43



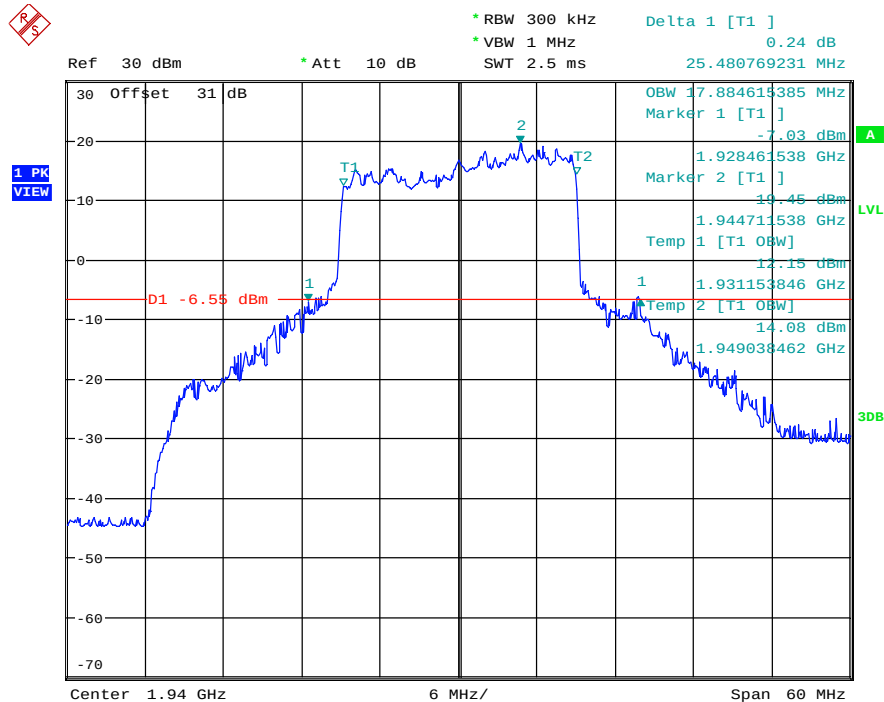
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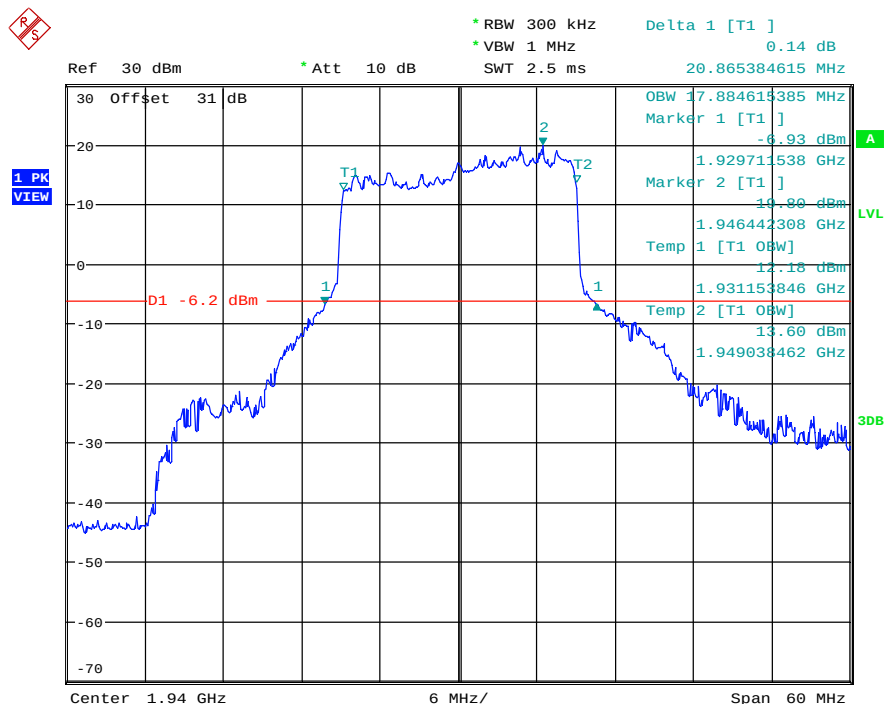
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

LTE Band 25 Down Link



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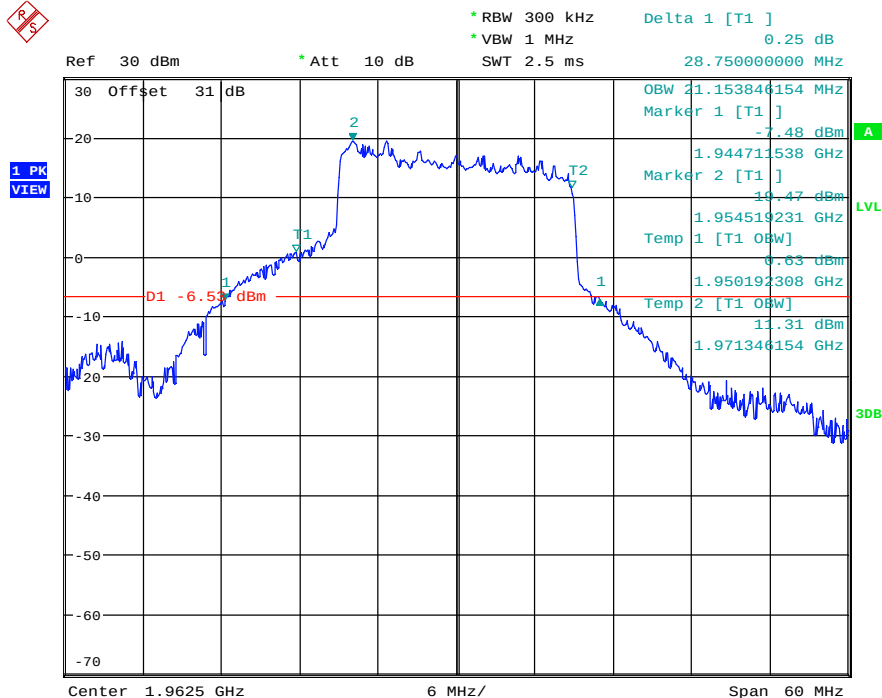


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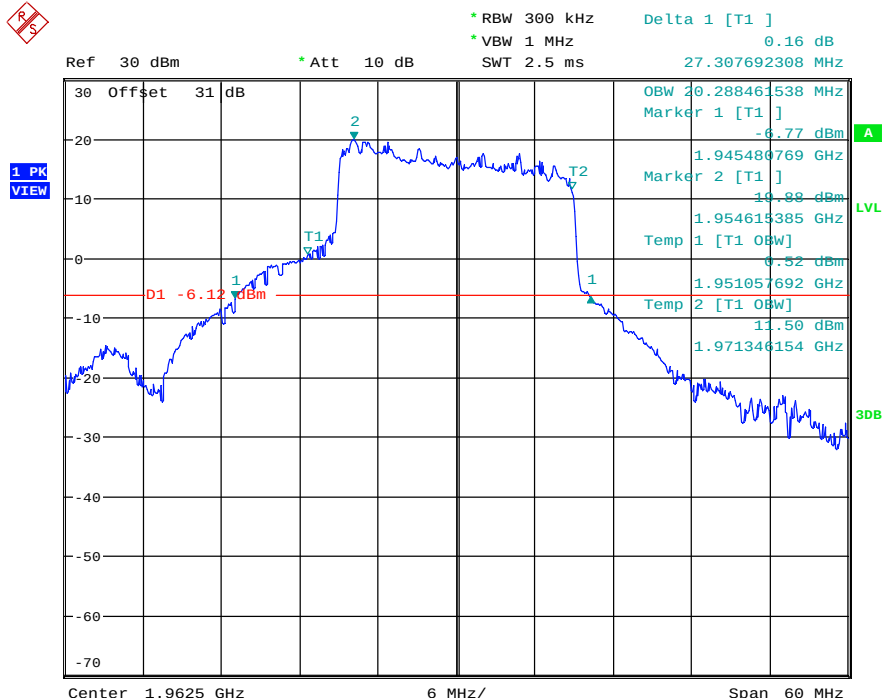


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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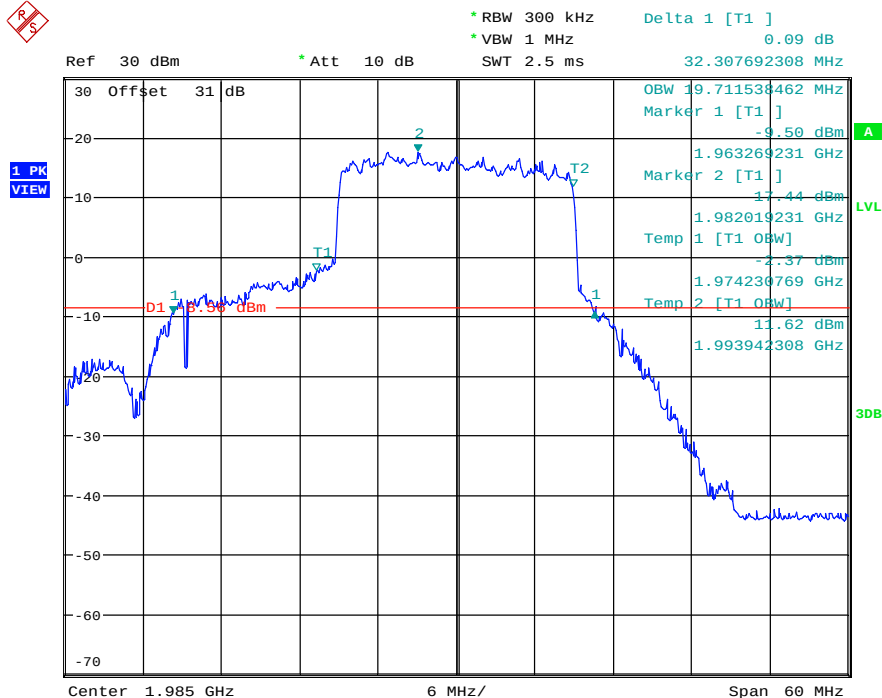


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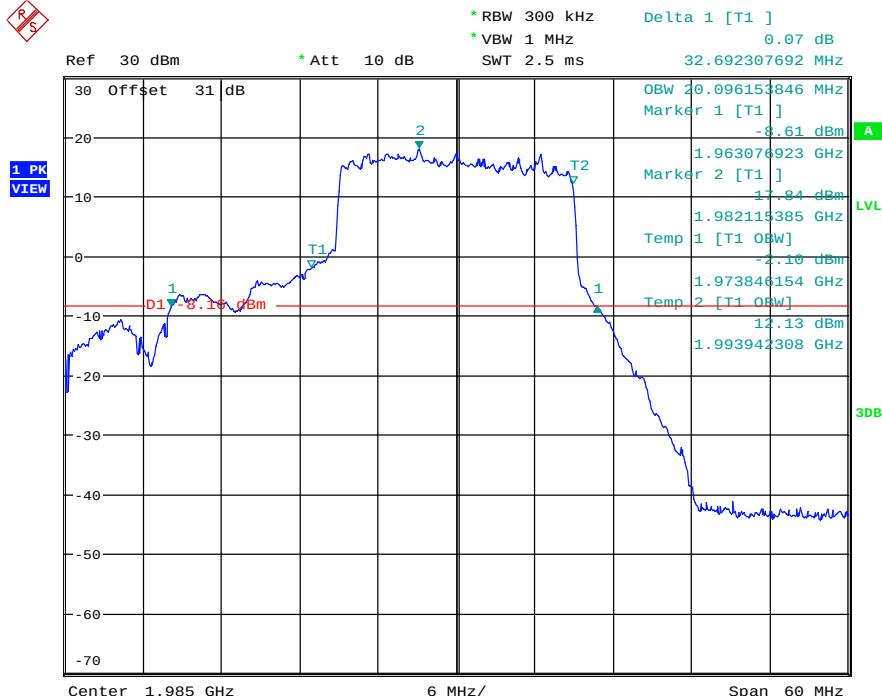


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FCC ID: 2ASQXZONEDASTWO



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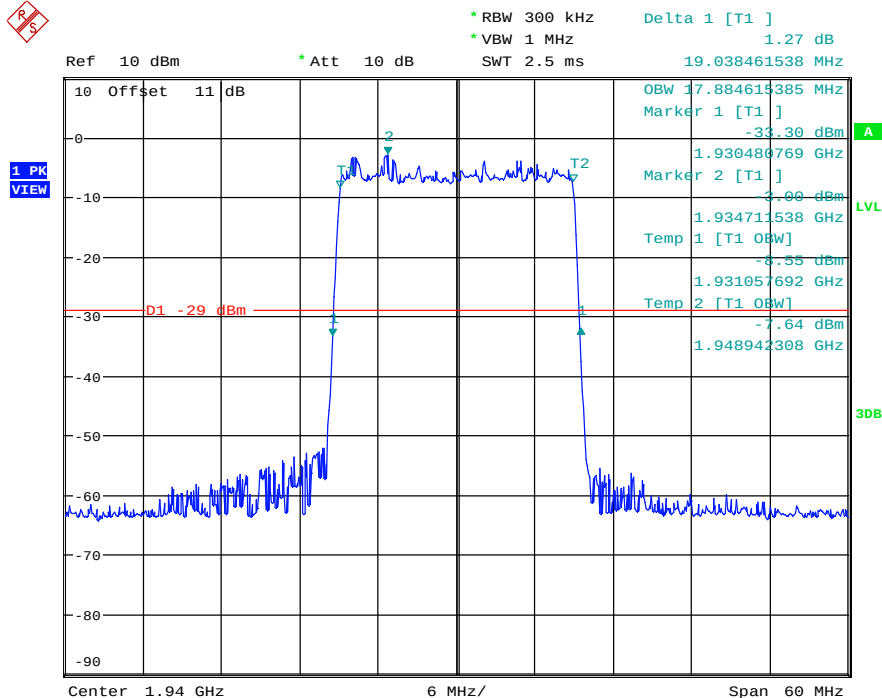


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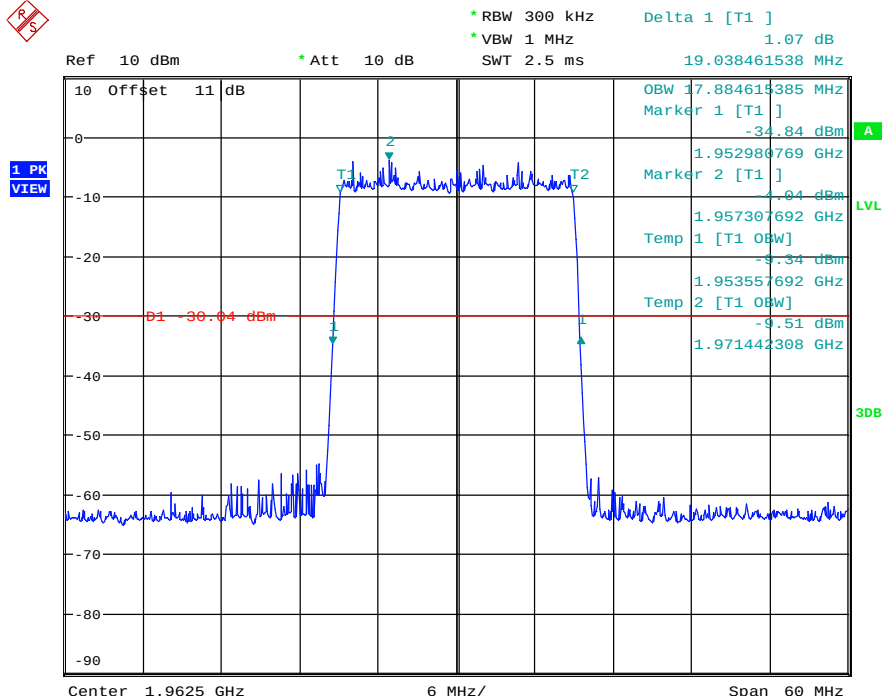


Report Number: W6M22504-24316-P-20

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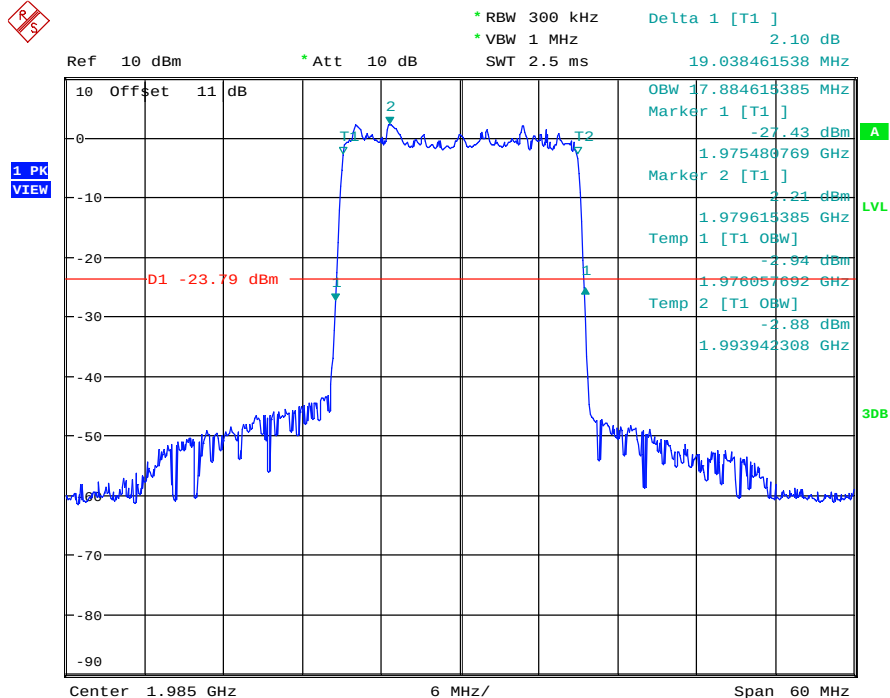


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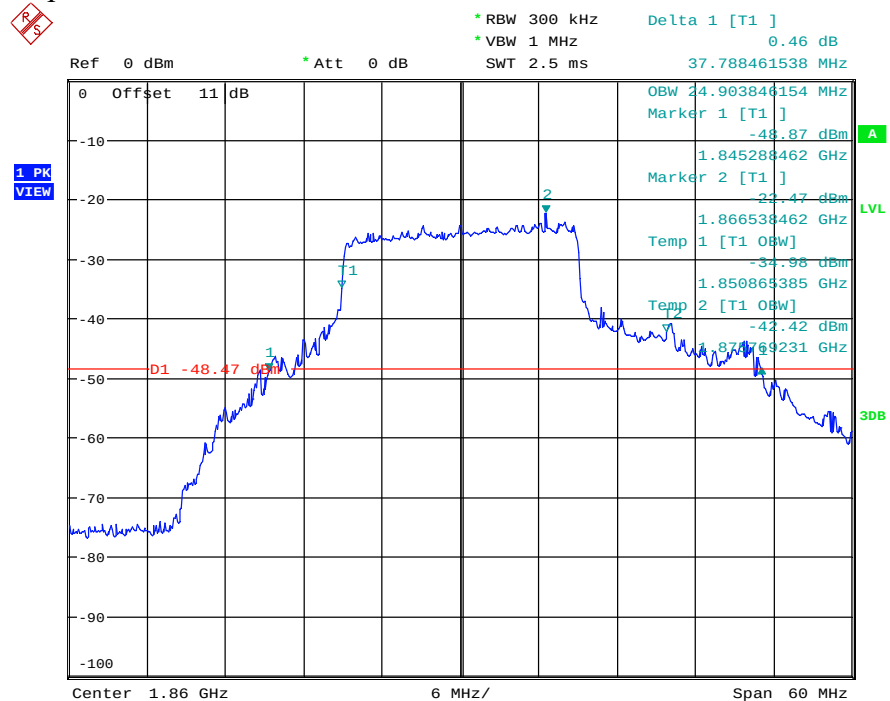
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FCC ID: 2ASQXZONEDASTWO



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LTE Band 25 Up Link



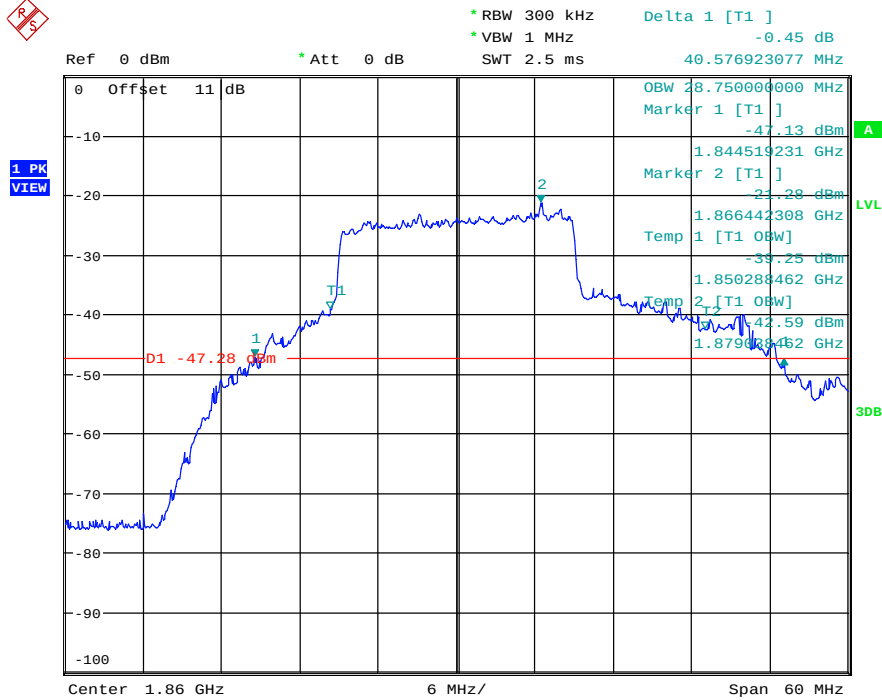
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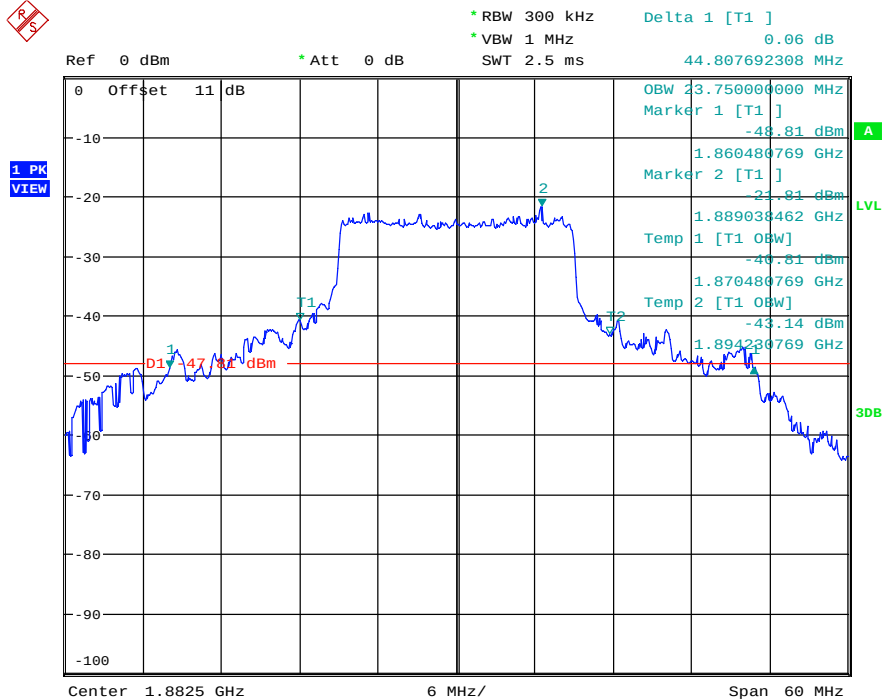
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

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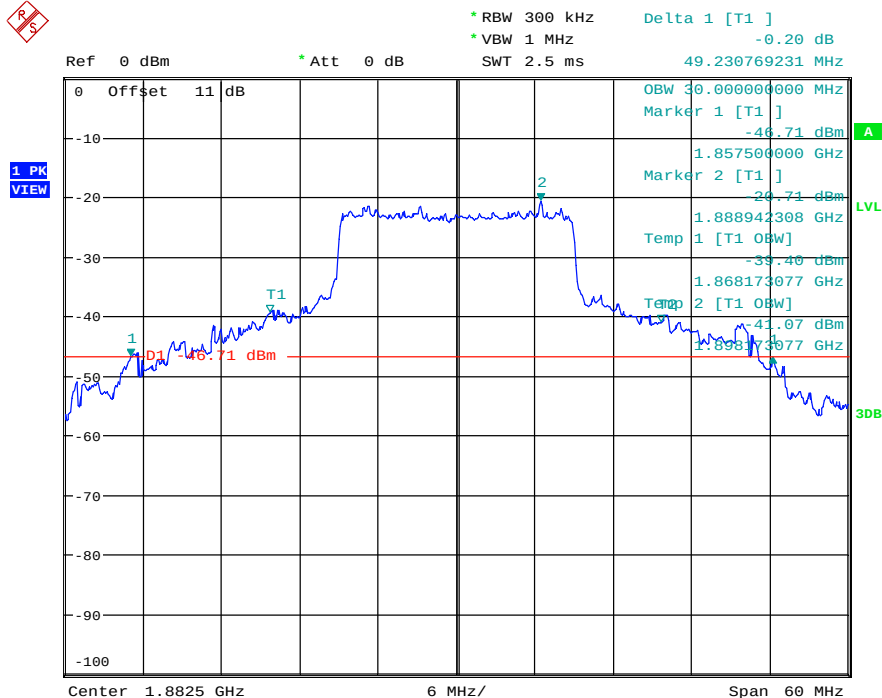


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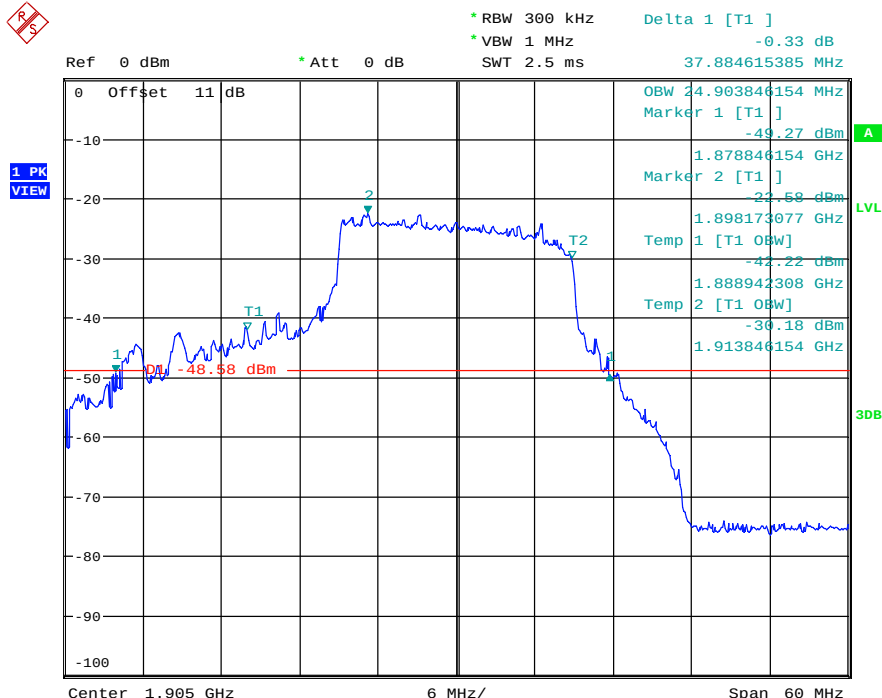


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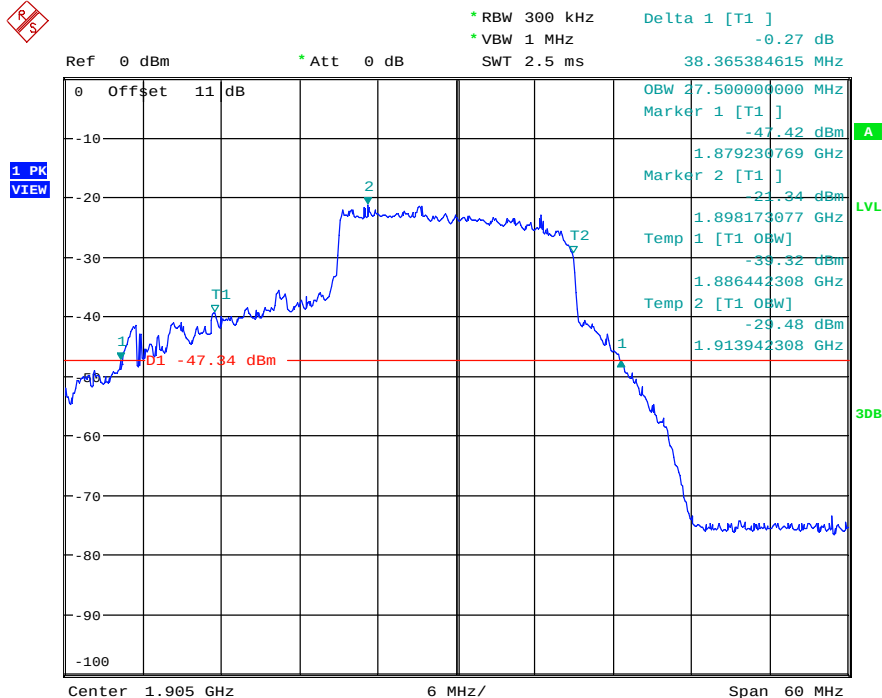


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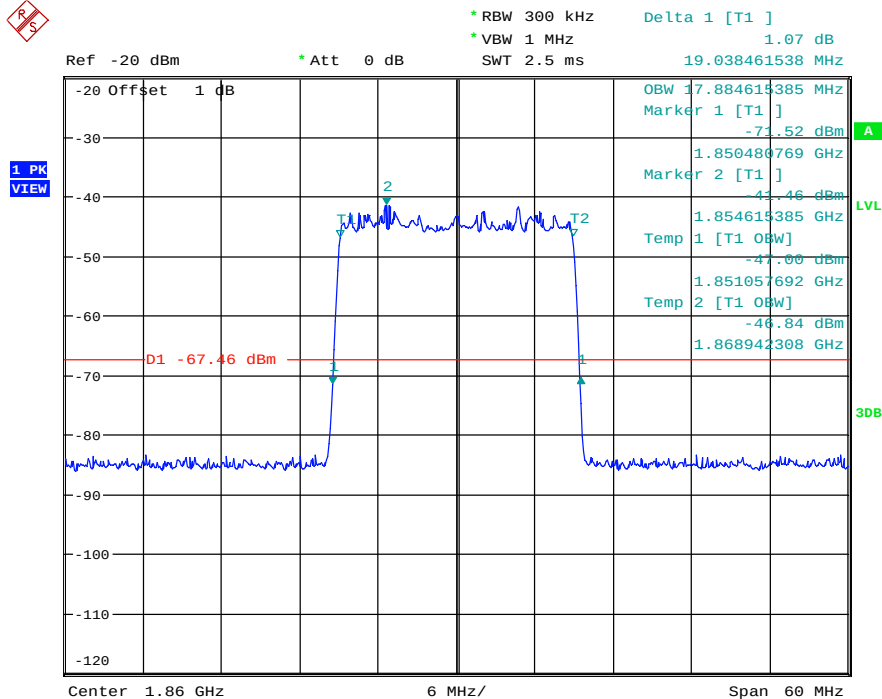


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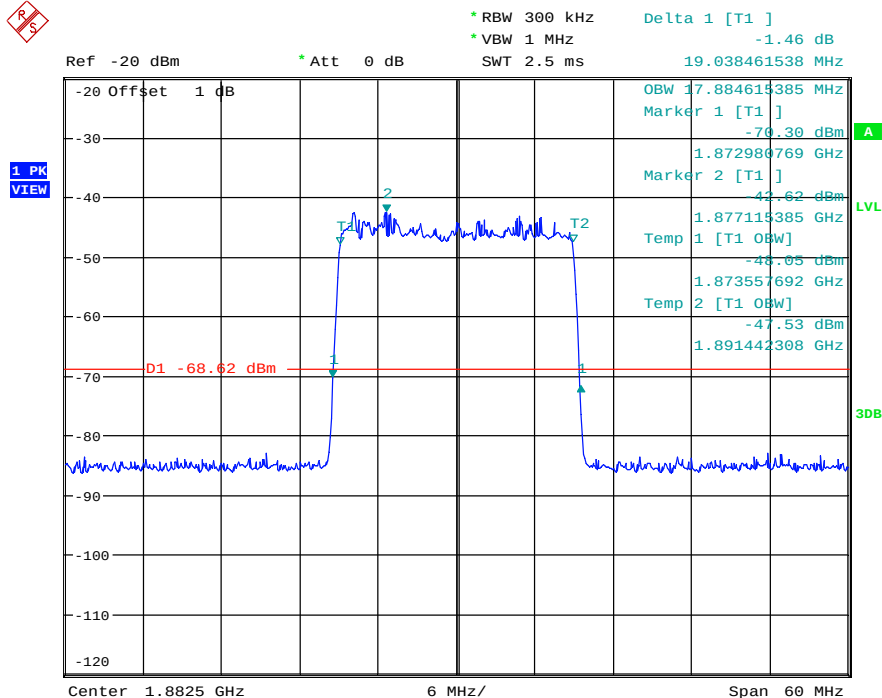


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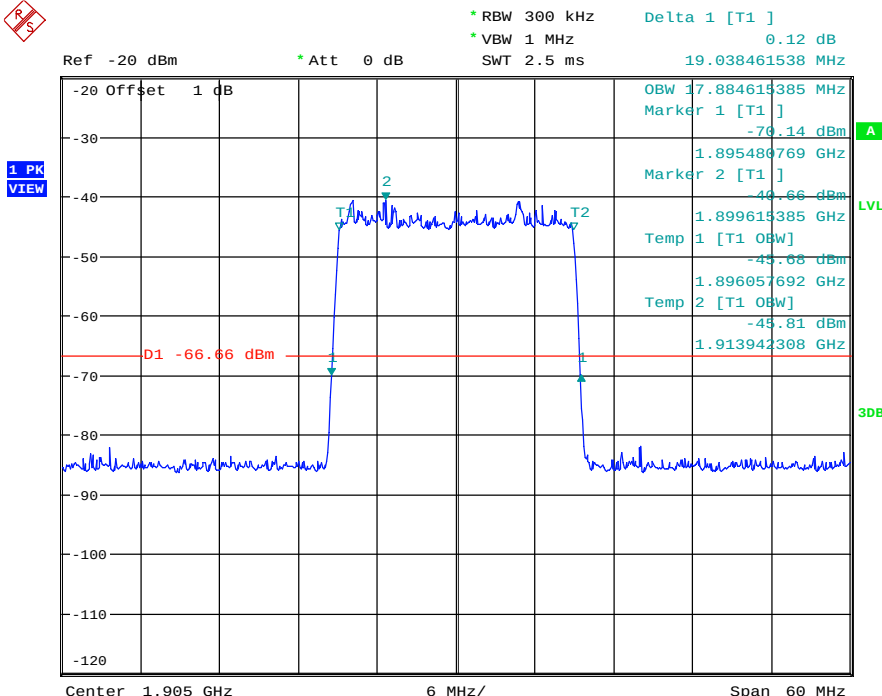


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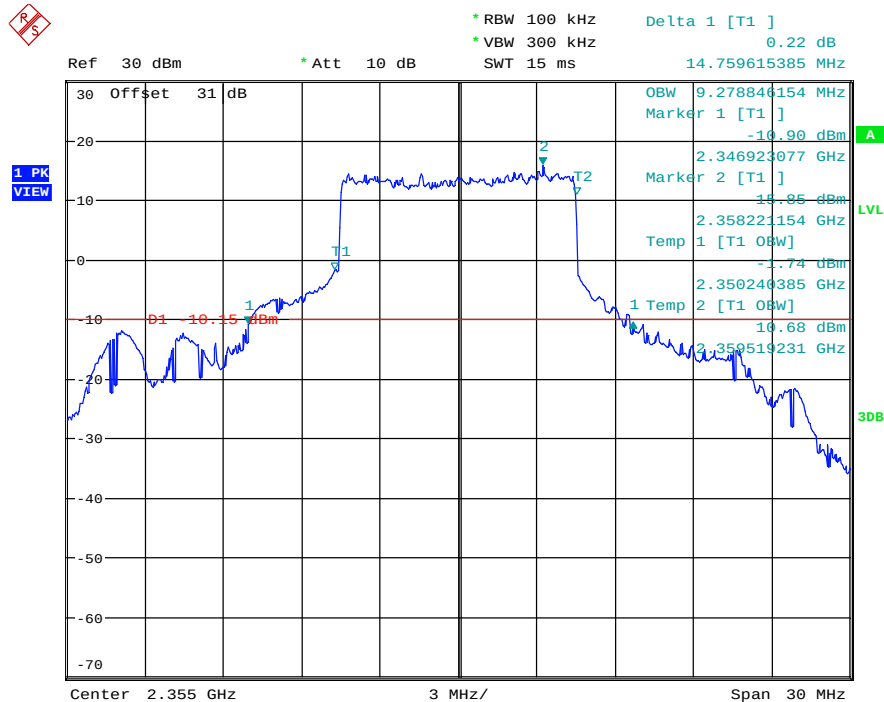
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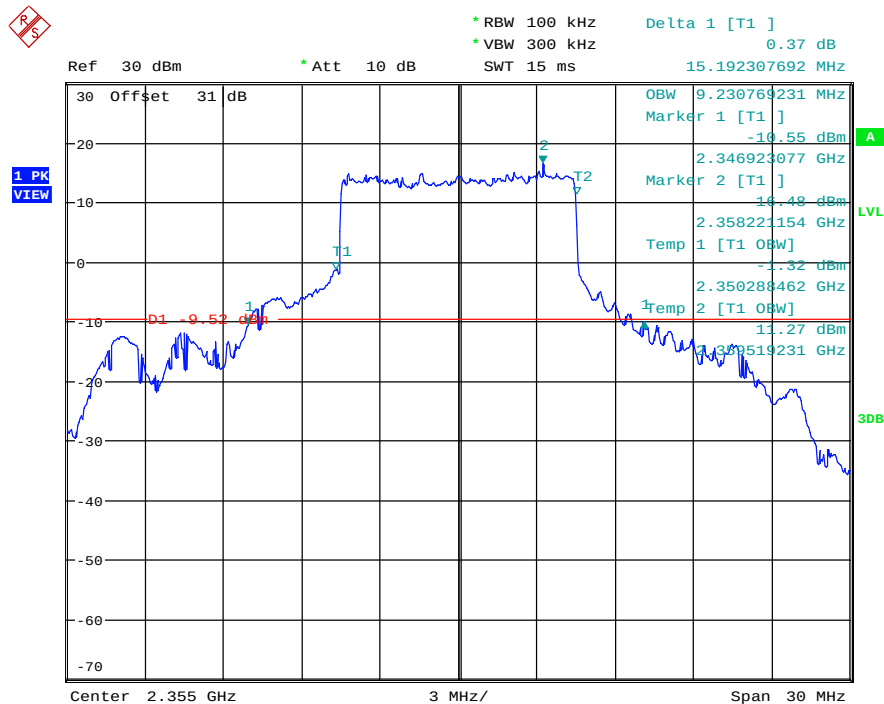
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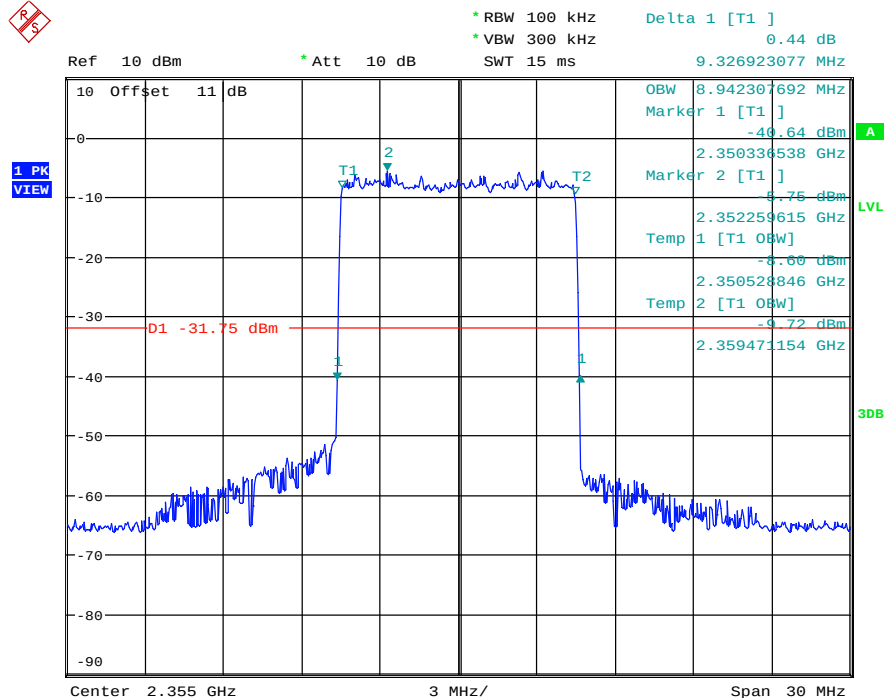


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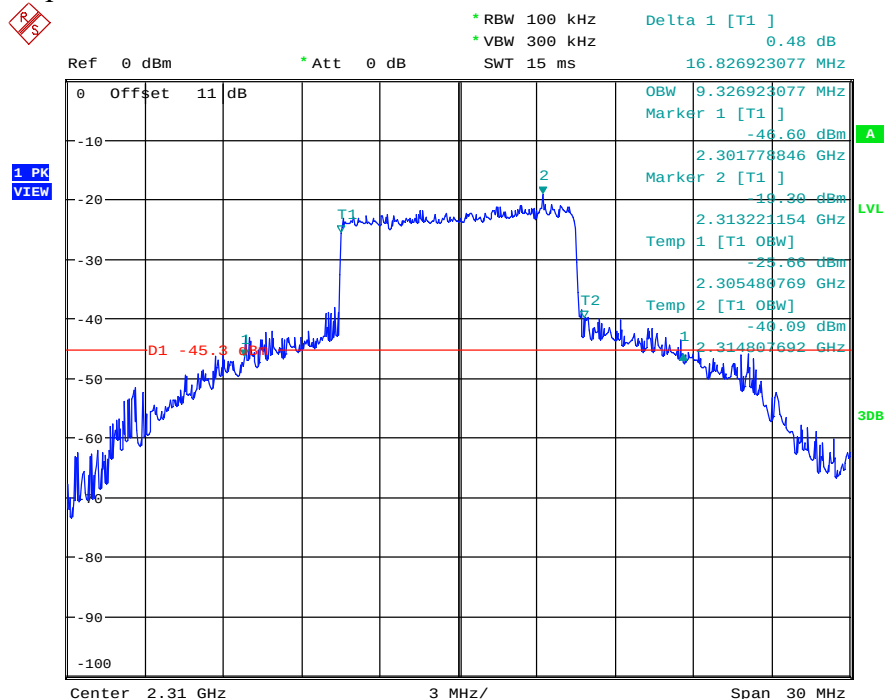
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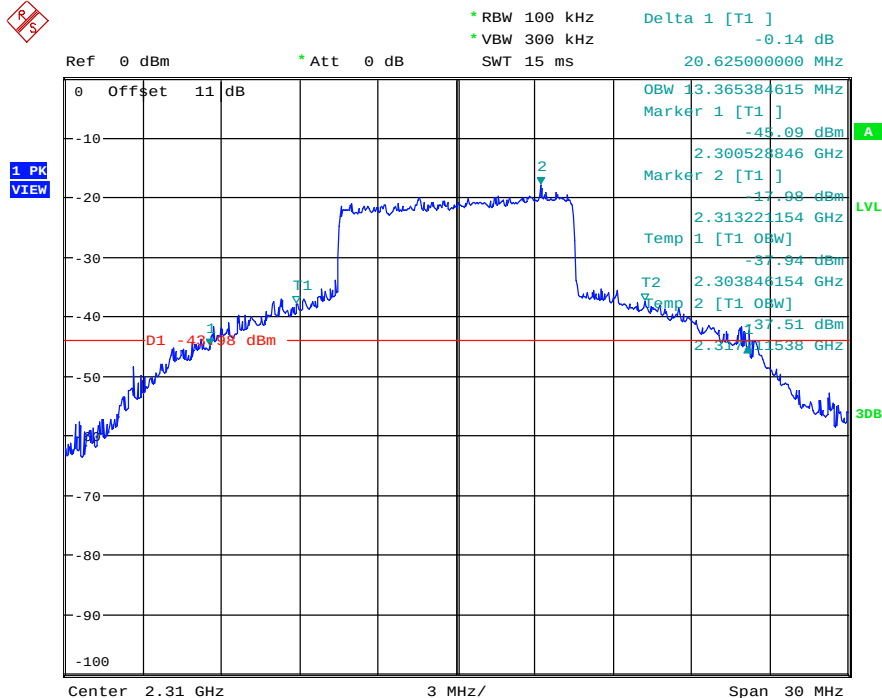


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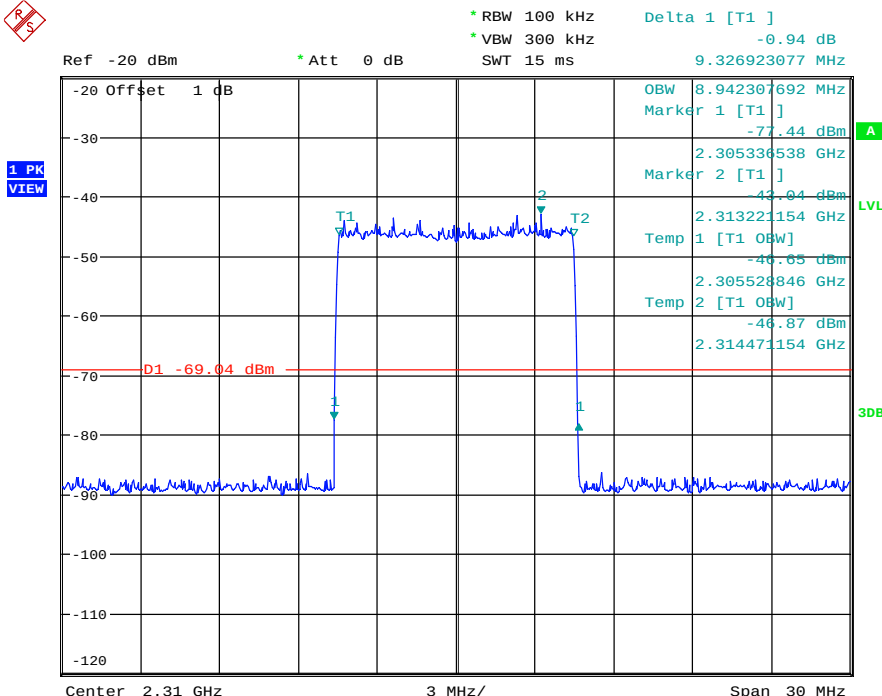


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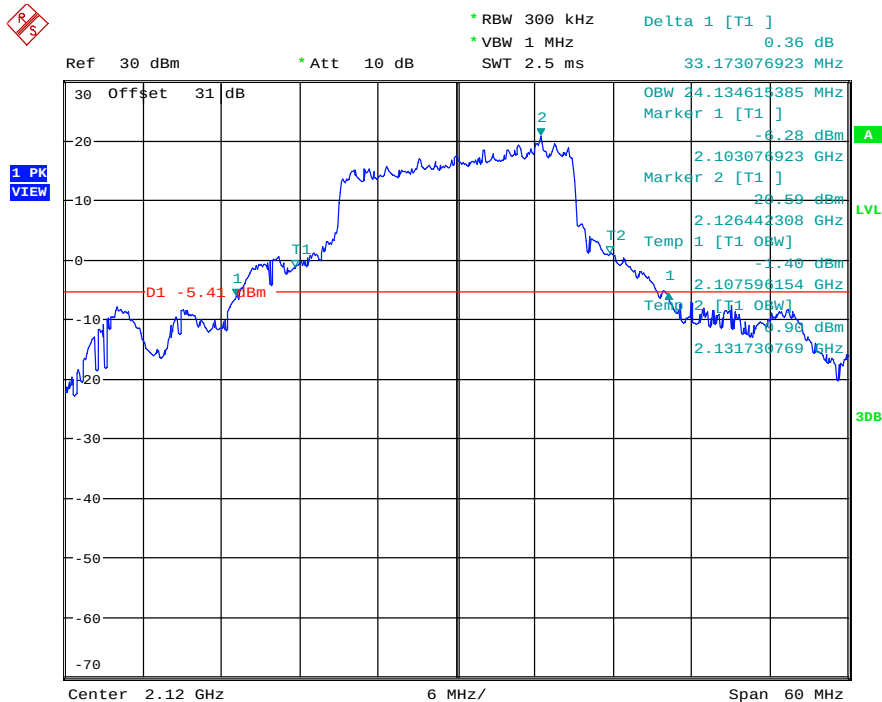
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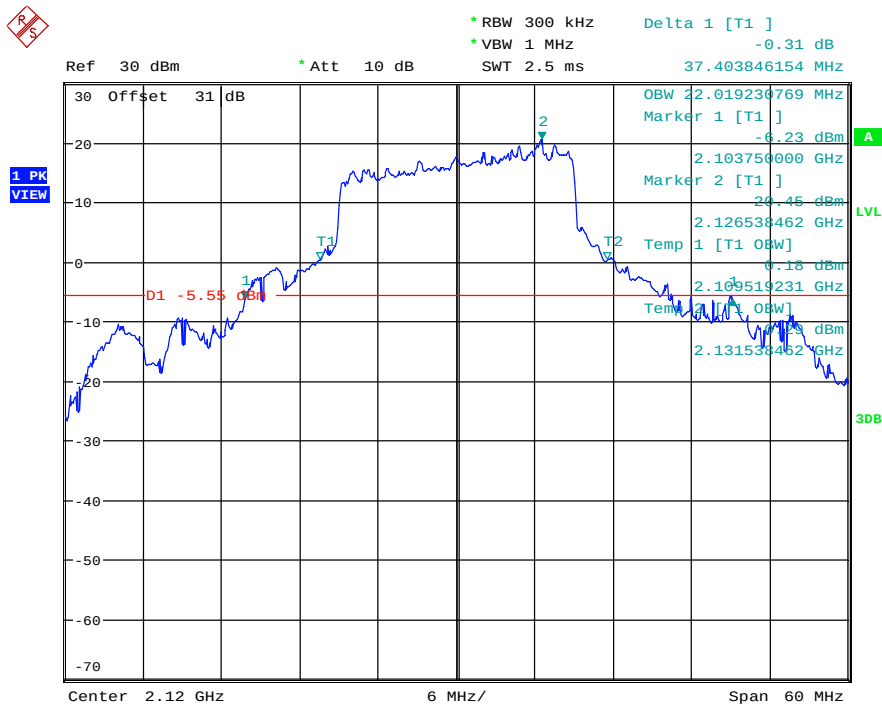
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LTE Band 66 Down Link



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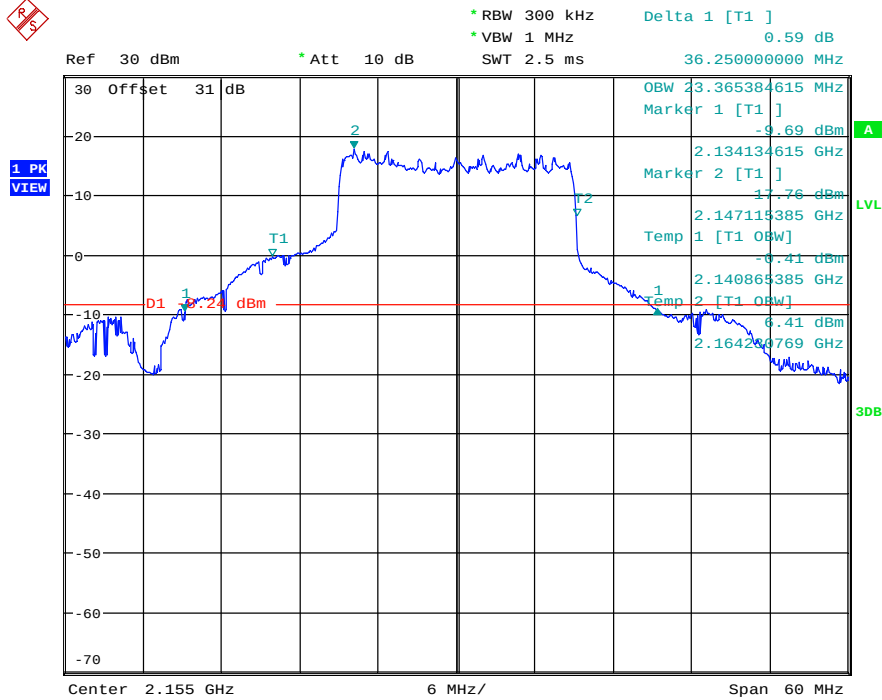


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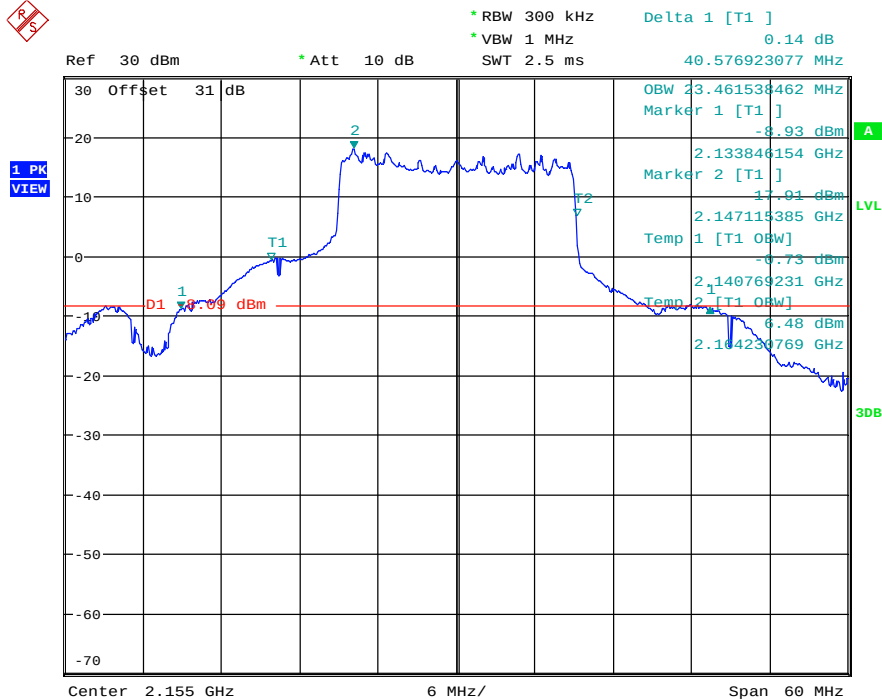


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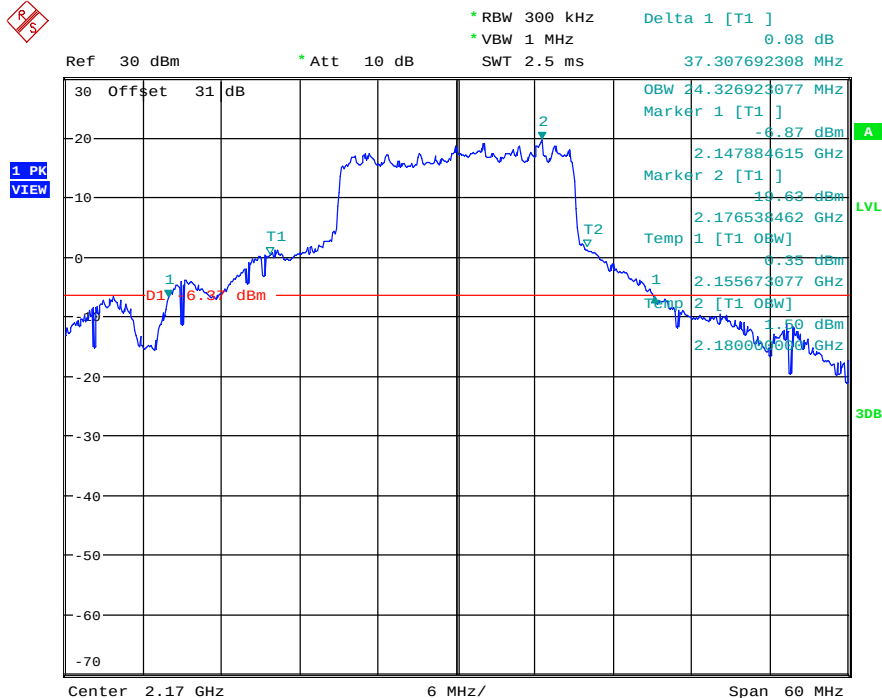


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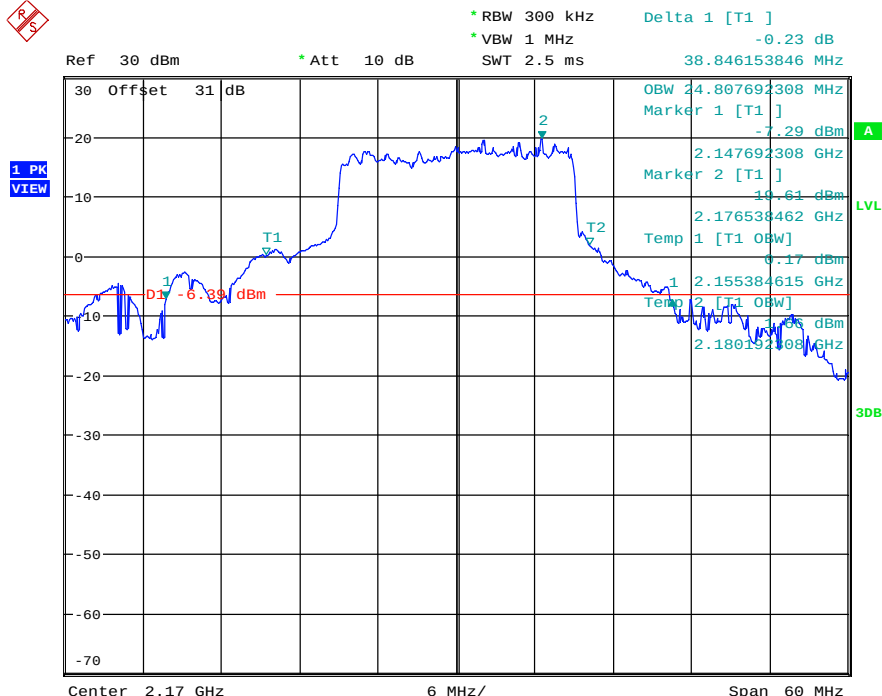


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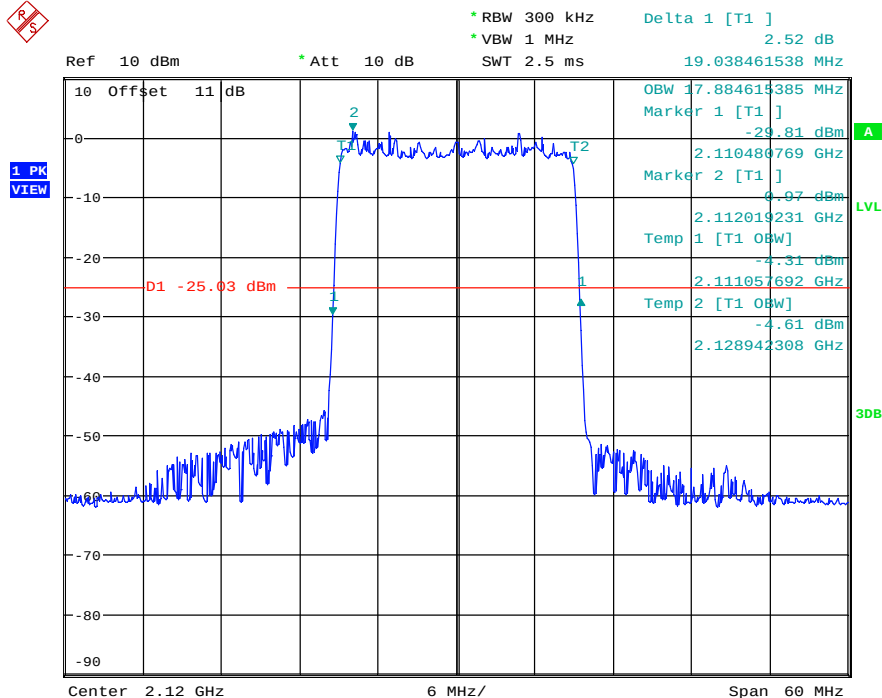


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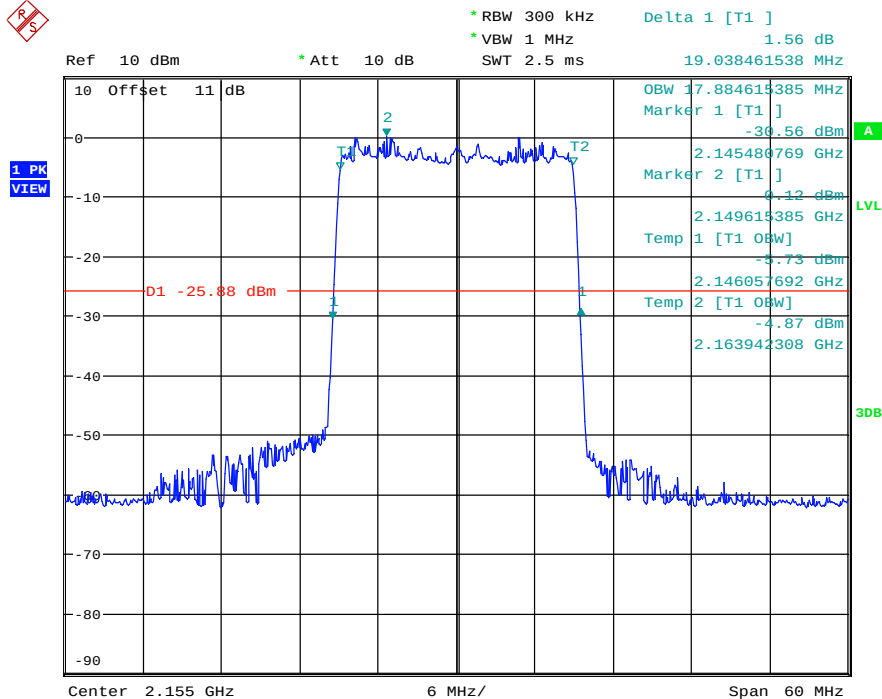


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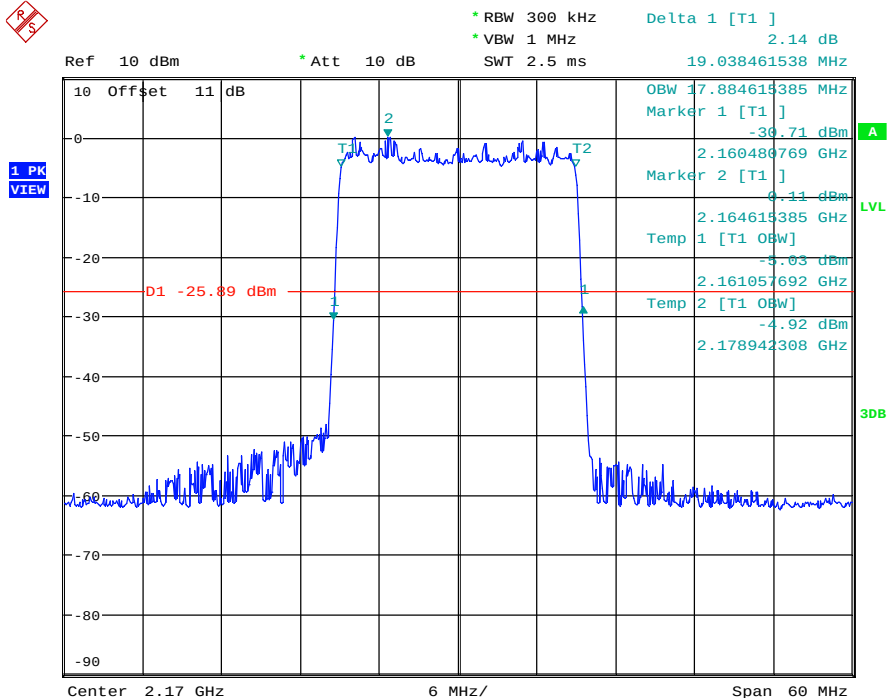


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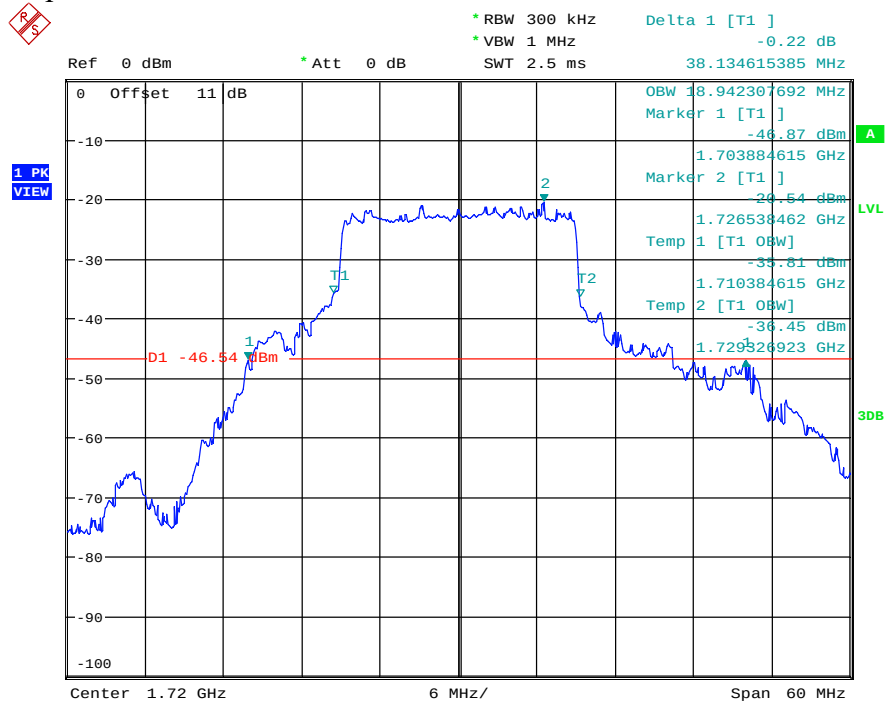
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LTE Band 66 Up Link

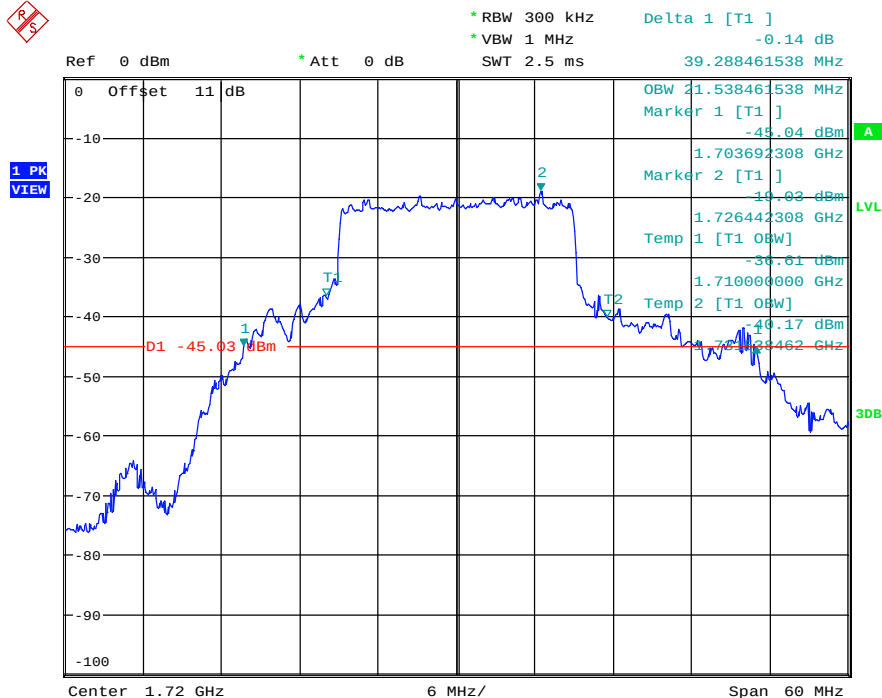


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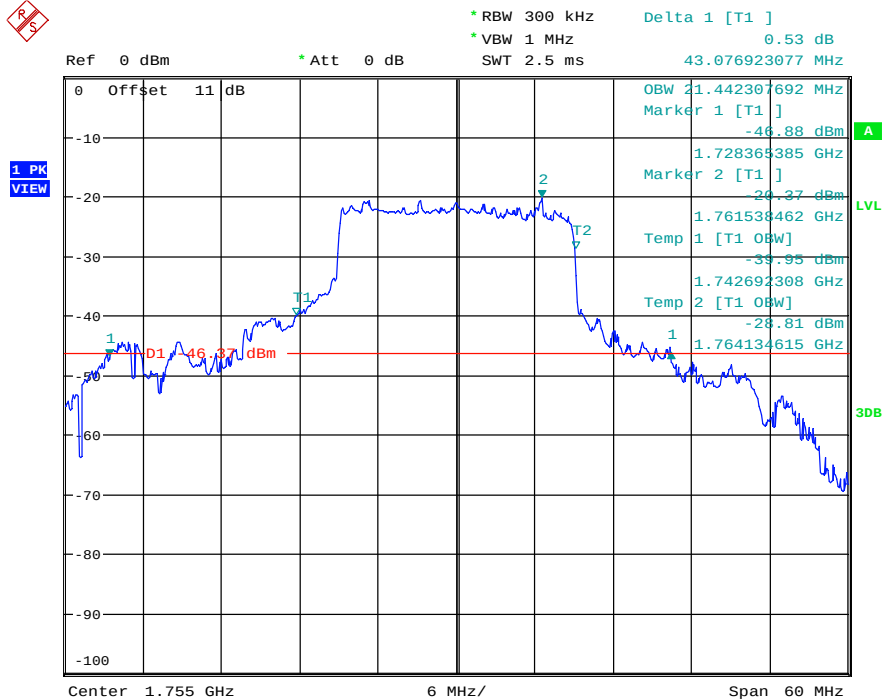


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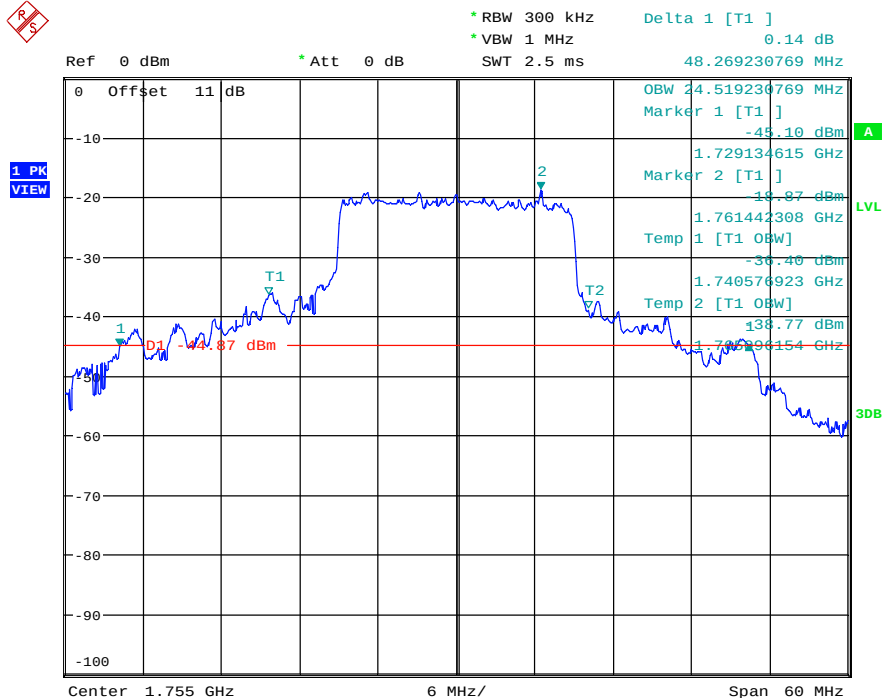


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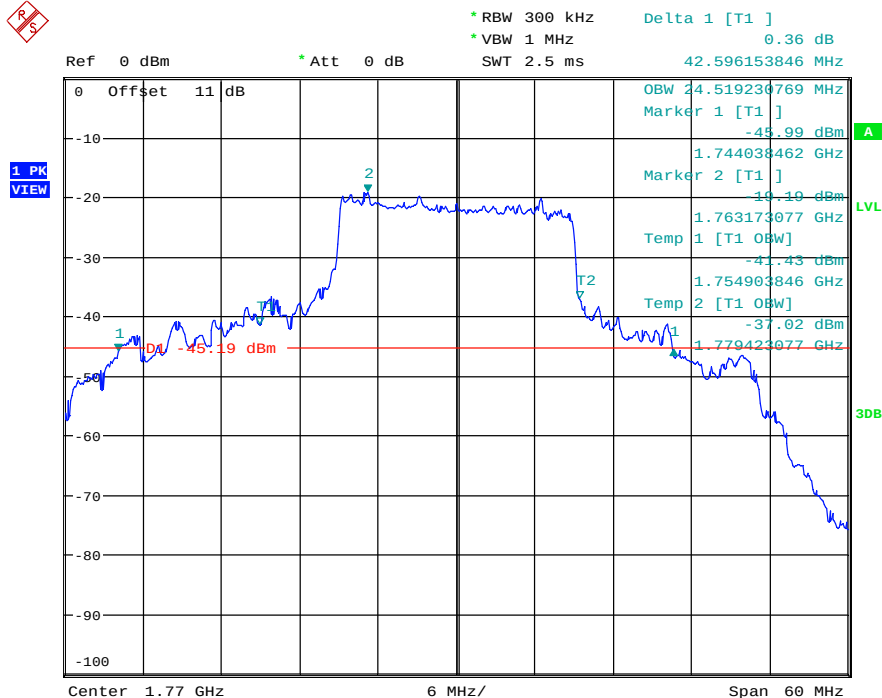


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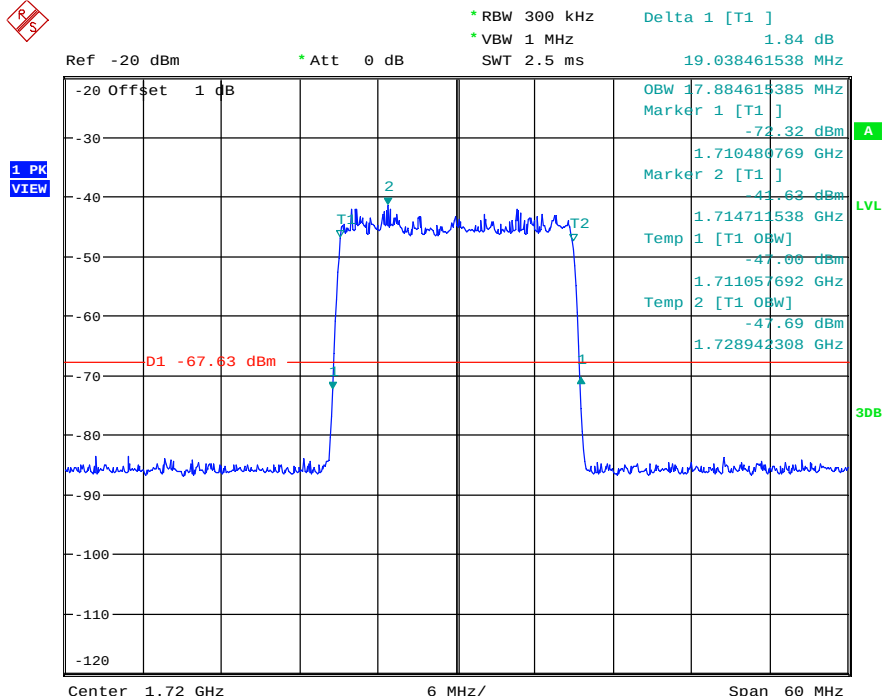


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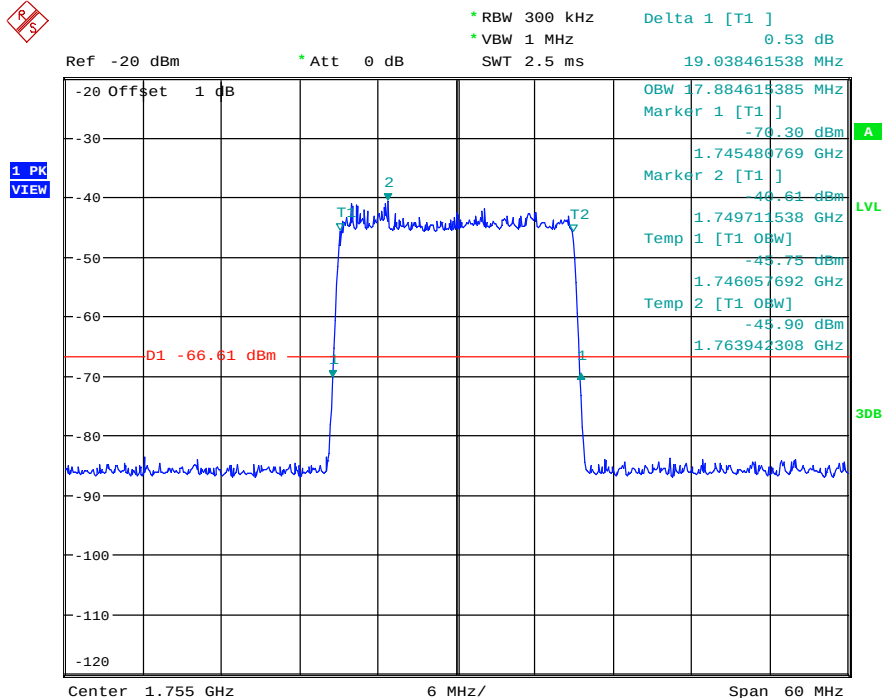


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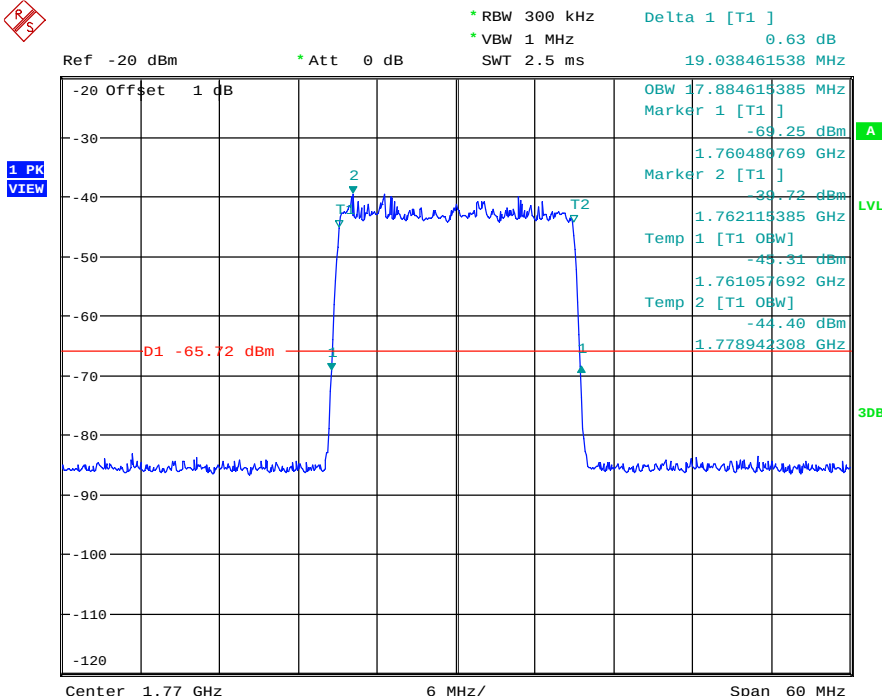


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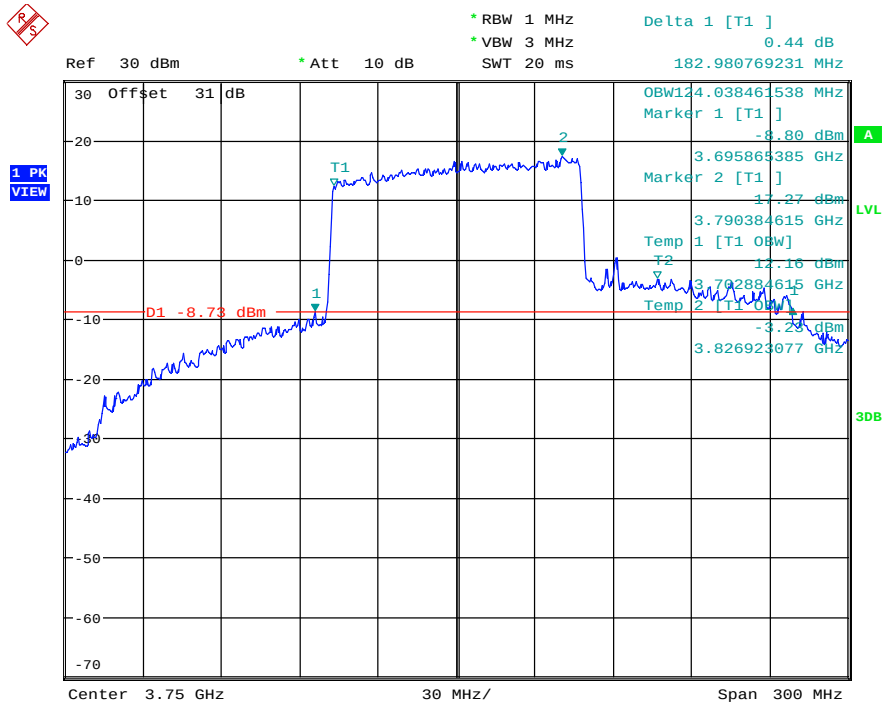
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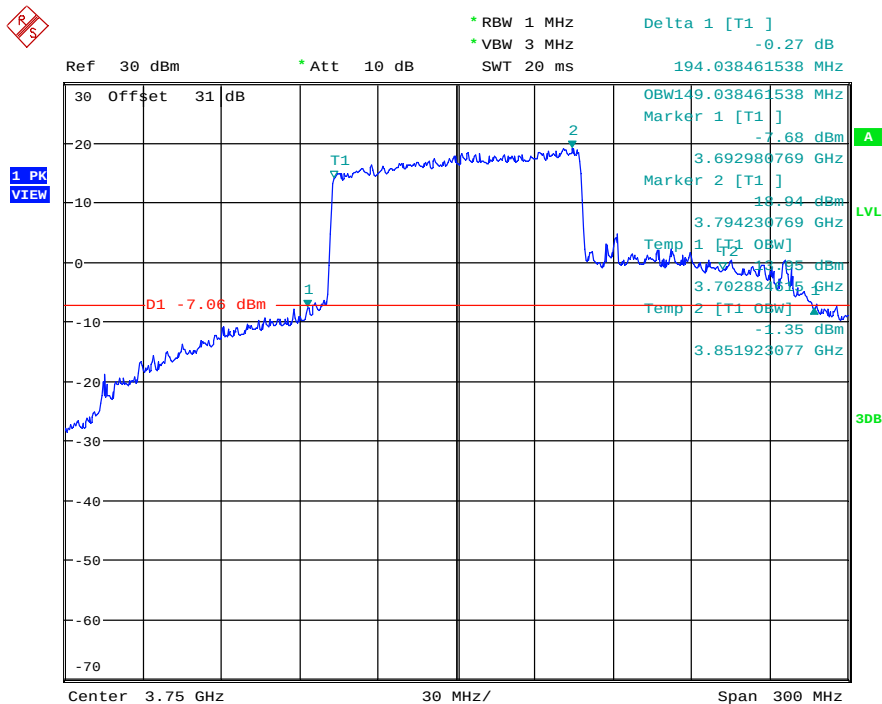
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5GNR n77 Down Link



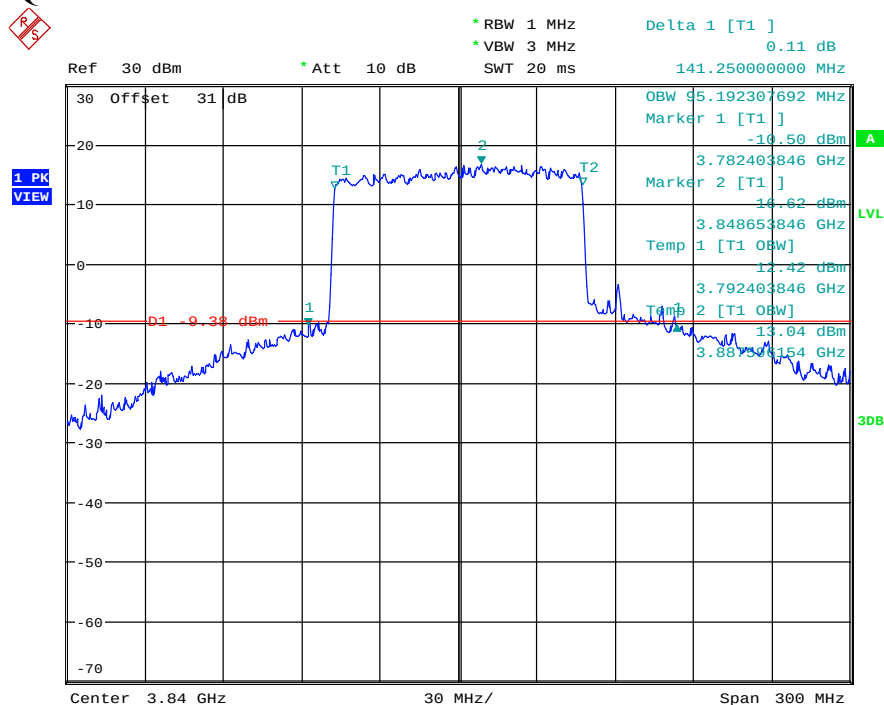
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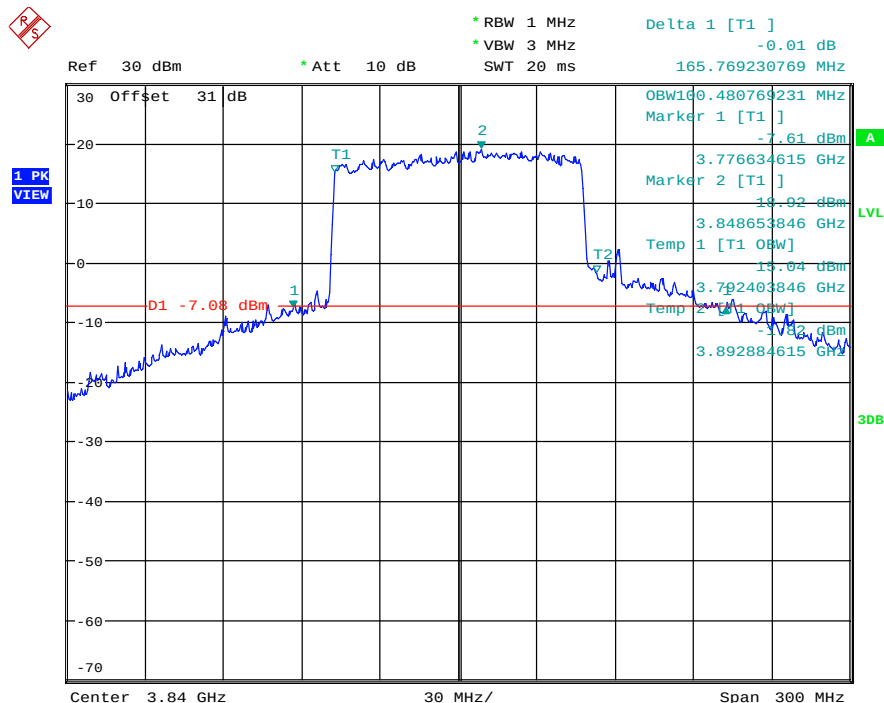
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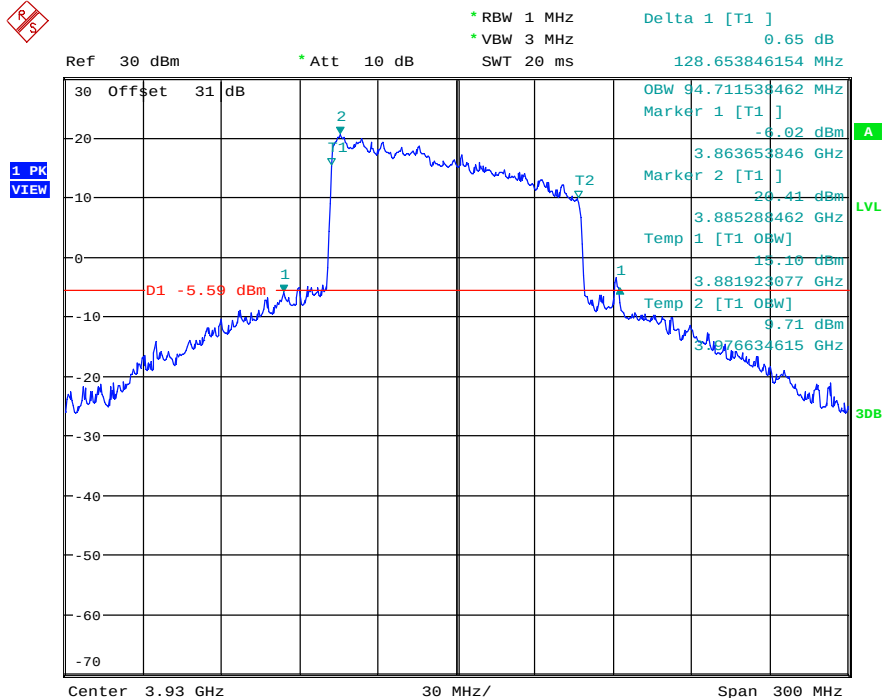


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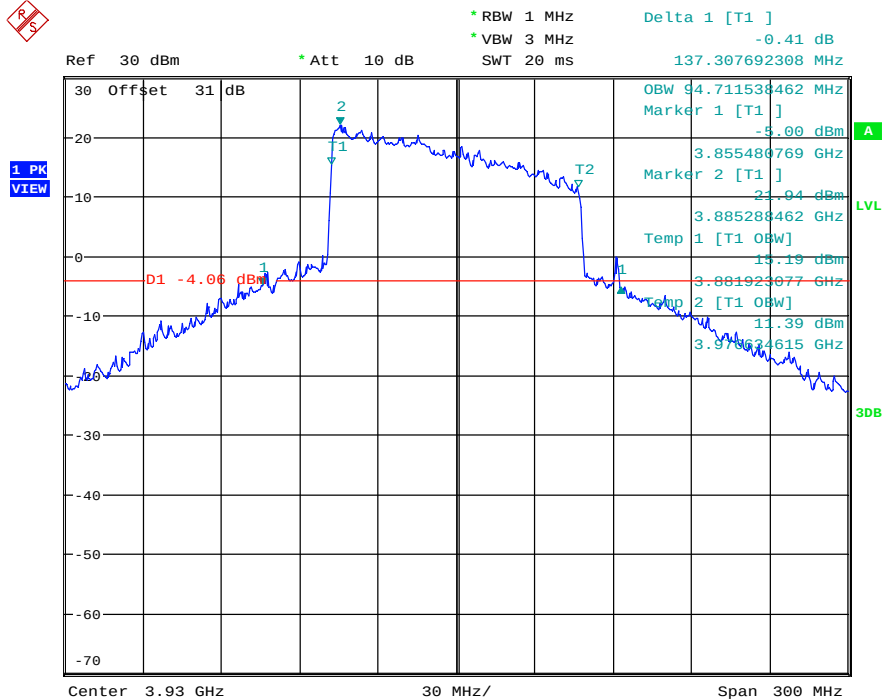


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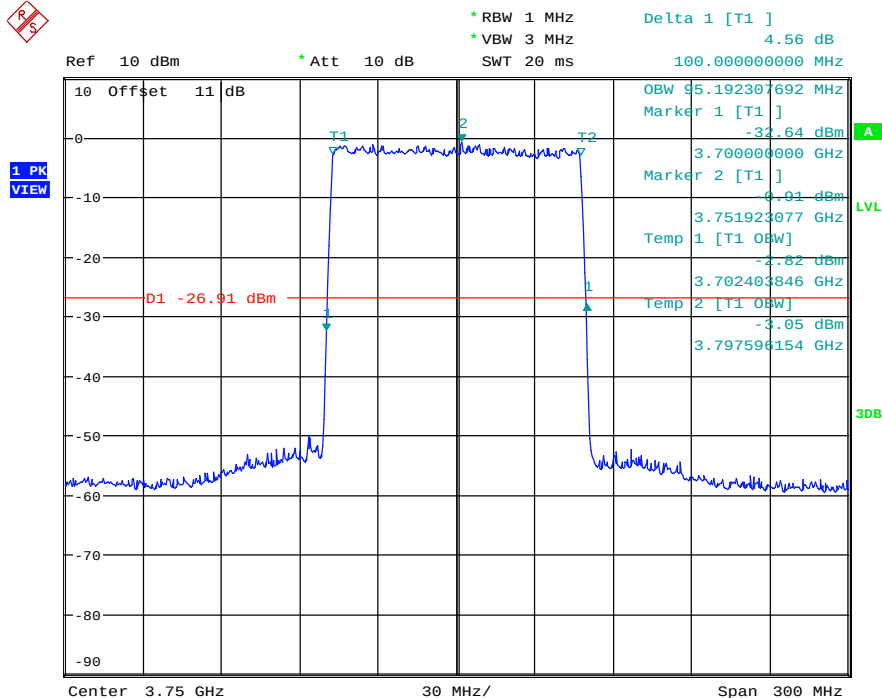


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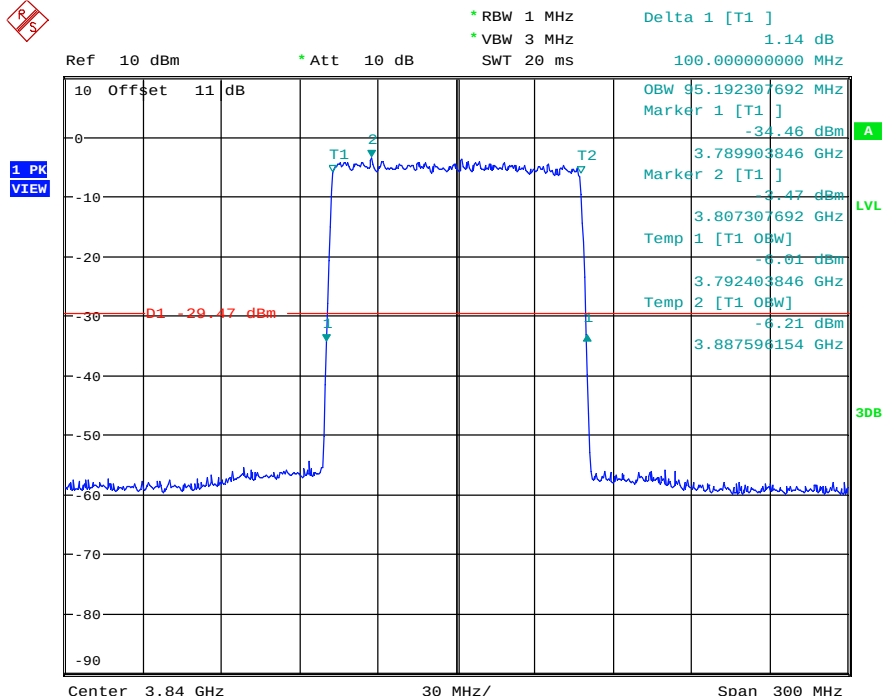


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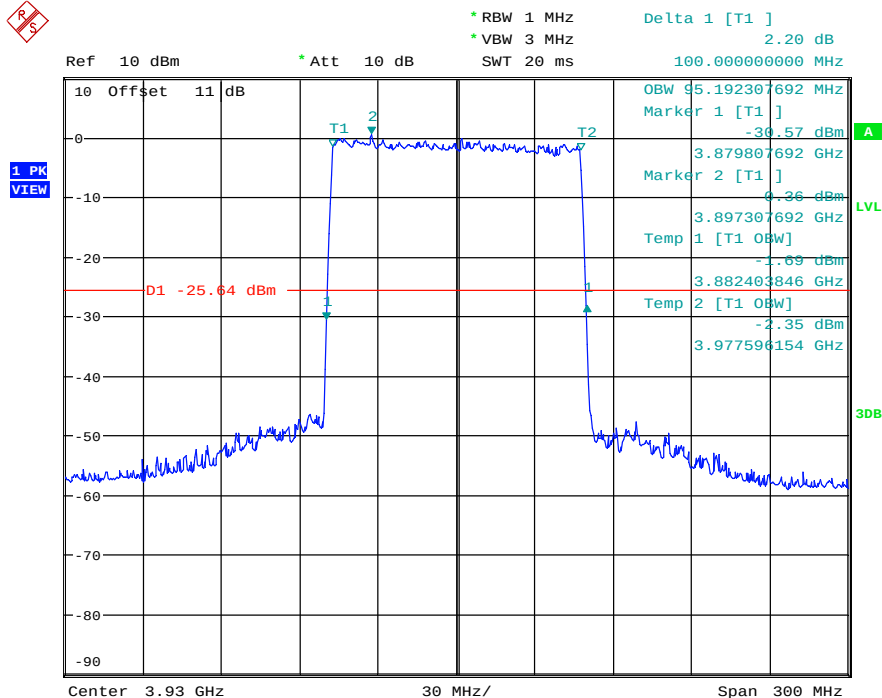


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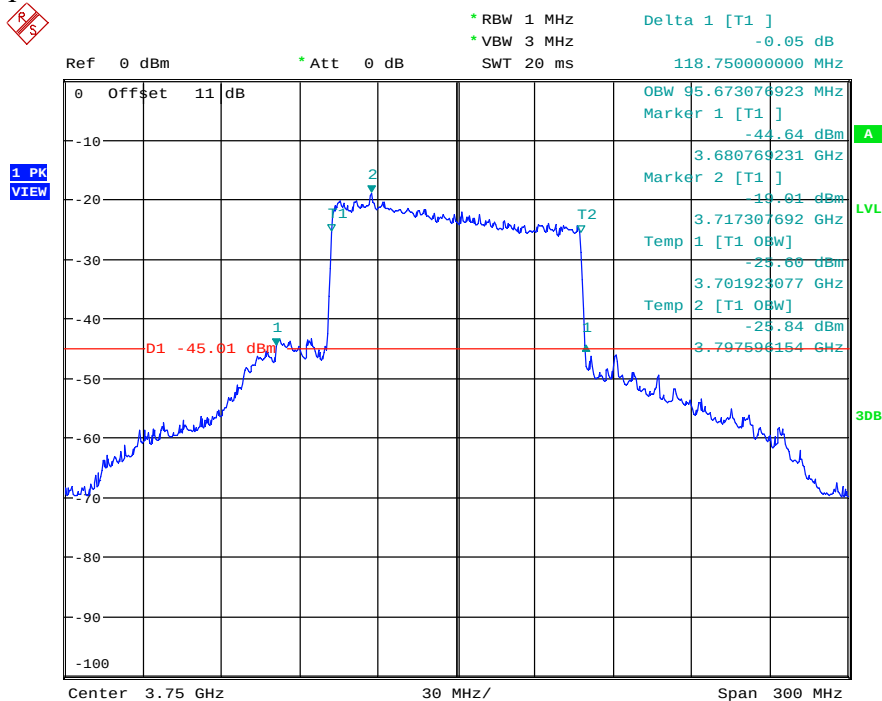
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5GNR n77 Up Link

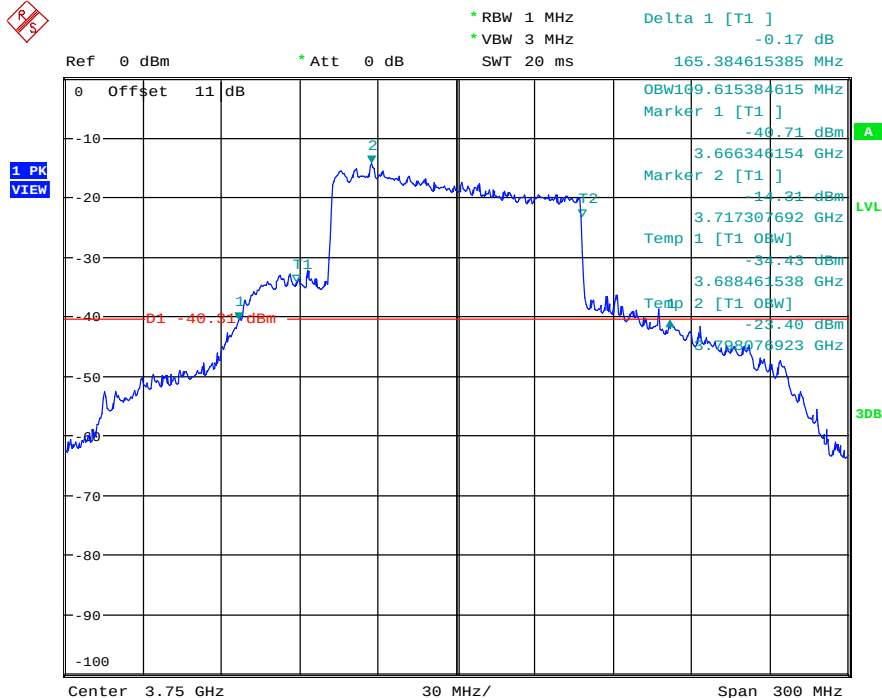


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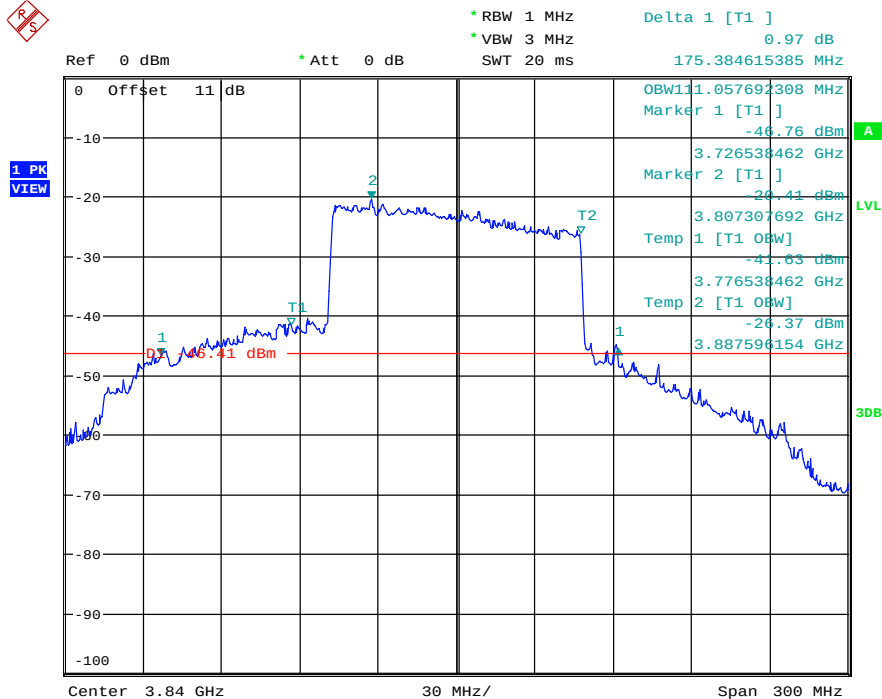


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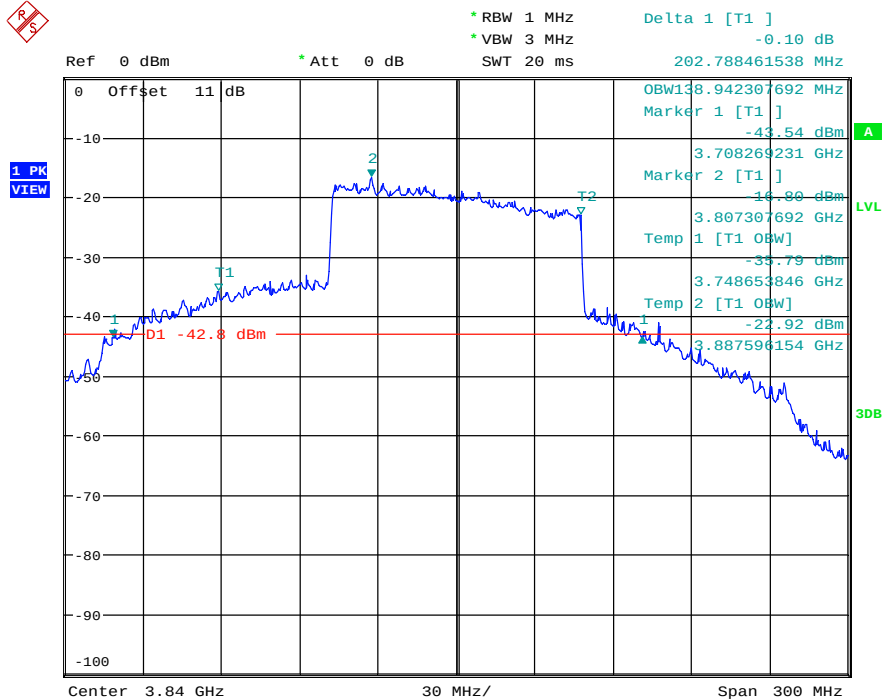


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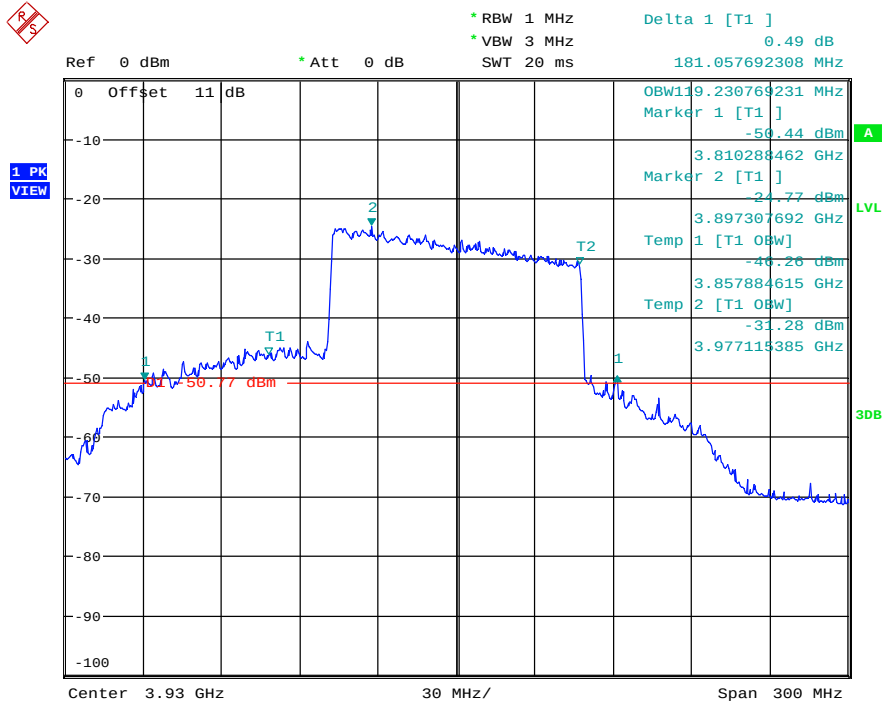


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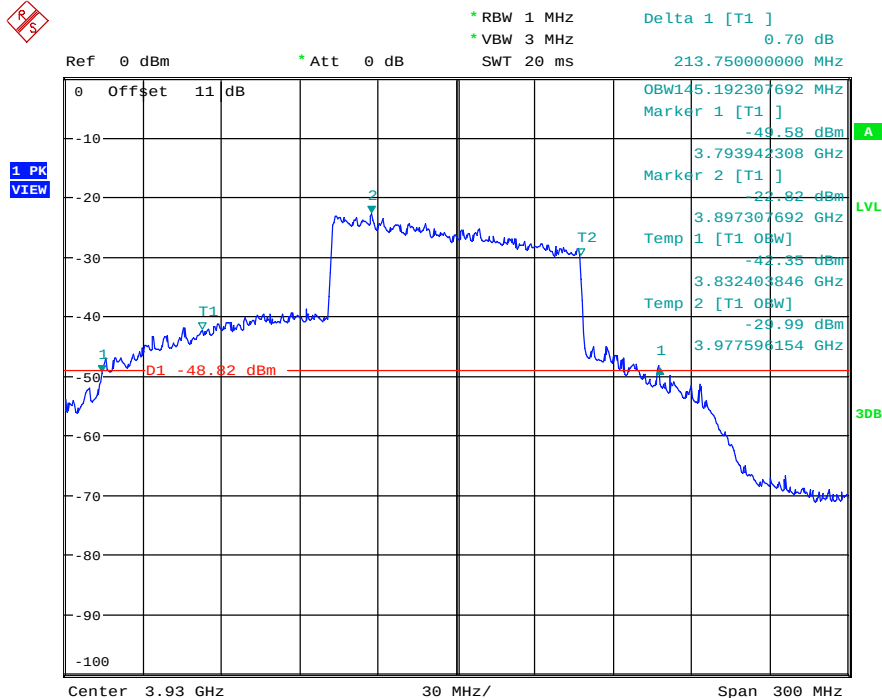


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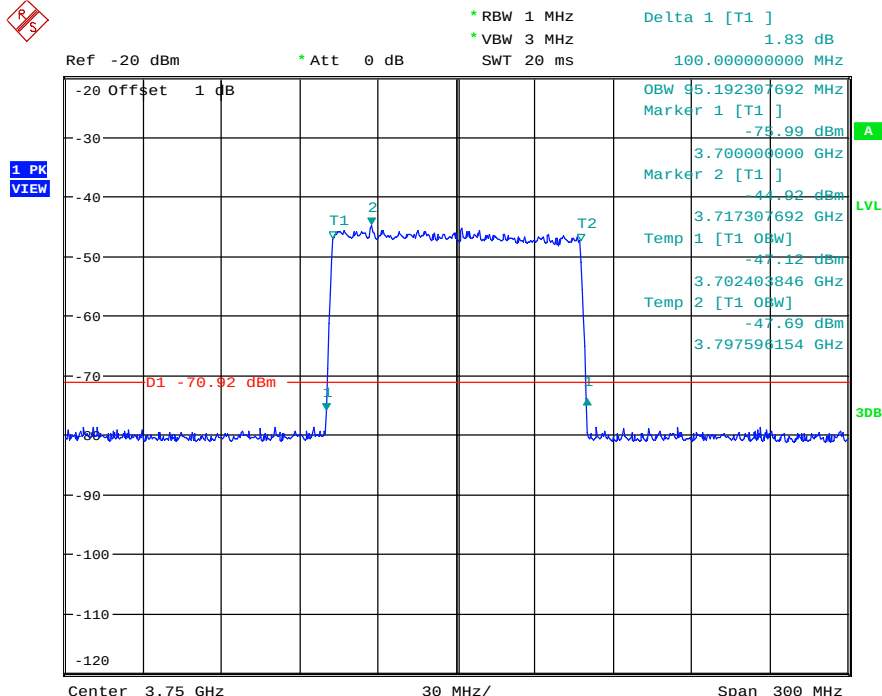


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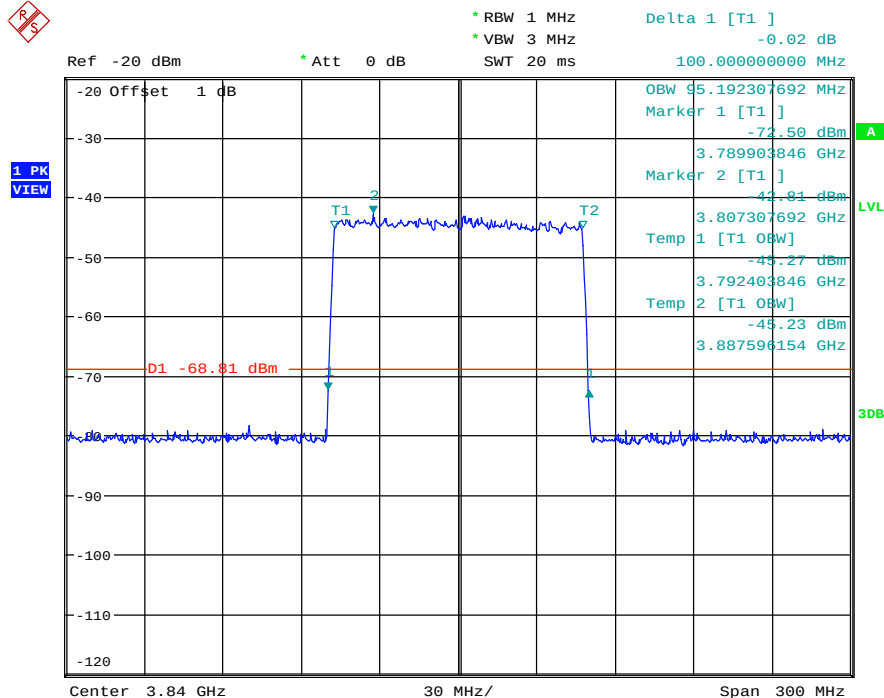


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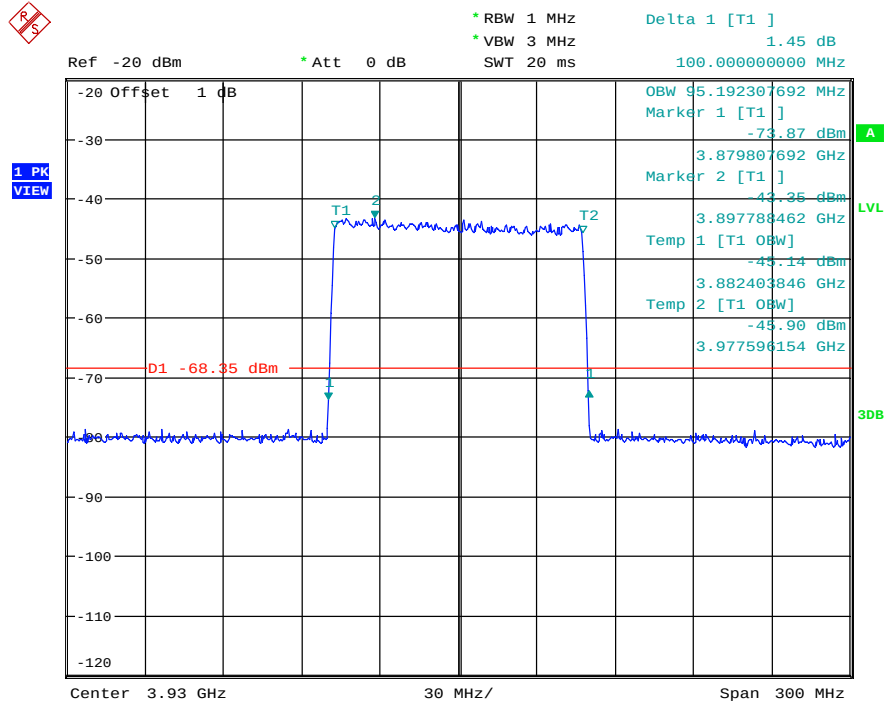


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FCC ID: 2ASQXZONEDASTWO



Date: 8.MAY.2025 17:26:23



Date: 8.MAY.2025 17:25:23



Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

6. Mean output power and amplifier/booster gain

6.1 Test procedure

6.1.1 General

The guidance in the following subclauses is provided for performing the measurement of mean input and output power of a CMRS non-consumer amplifier, repeater, or industrial booster, to compute the gain of the device.

- a) Adjust the internal gain control of the EUT to the maximum gain for which the equipment certification is being sought. Any EUT attenuation settings shall be set to their minimum value.
- b) Input power levels (uplink and downlink) should be set to maximum input ratings while confirming that the device is not capable of operating in saturation (non-linear mode) at the rated input levels, including during the performance of the input/output power measurements.

6.1.2 Measuring the EUT mean input and output power

- a) Connect a signal generator to the input of the EUT.
- b) Configure to generate the AWGN (broadband) test signal.
- c) The frequency of the signal generator shall be set to the frequency f_0 as determined from 3.3.
- d) Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as necessary.
- e) Set the signal generator output power to a level that produces an EUT output level that is just below the AGC threshold (see 3.2), but not more than 0.5 dB below.
- f) Measure and record the output power of the EUT; use 3.5.3 or 3.5.4 for power measurement.
- g) Remove the EUT from the measurement setup. Using the same signal generator settings, repeat the power measurement at the signal generator port, which was used as the input signal to the EUT, and record as the input power. EUT gain may be calculated as described in 3.5.5.
- h) Repeat steps f) and g) with input signal amplitude set to 3 dB above the AGC threshold level.
- i) Repeat steps e) to h) with the narrowband test signal.
- j) Repeat steps e) to i) for all frequency bands authorized for use by the EUT.

6.2 Test Results

Explanation: For test results, please refer to CH 3.2.



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7. Measuring out-of-band/out-of-block (including intermodulation) emissions and spurious emissions

7.1 Test procedure

7.1.1 General

Refer to the applicable rule part(s) for specified limits on unwanted (out-of-band/out-of-block and spurious) emissions.

Spurious emissions shall be measured using a single test signal sequentially tuned to the low, middle, and high channels or frequencies within each authorized frequency band of operation.

Out-of-band/out-of-block emissions (including intermodulation products) shall be measured under each of the following two stimulus conditions:

- a) two adjacent test signals sequentially tuned to the lower and upper frequency band/block edges;
- b) a single test signal, sequentially tuned to the lowest and highest frequencies or channels within the frequency band/block under examination.

NOTE—Single-channel boosters that cannot accommodate two simultaneous signals within the passband may be excluded from the test stipulated in step a).

7.1.2 Out-of-band/out-of-block emissions conducted measurements

- a) Connect a signal generator to the input of the EUT.
If the signal generator is not capable of generating two modulated carriers simultaneously, then two discrete signal generators can be connected with an appropriate combining network to support this two-signal test.
- b) Set the signal generator to produce two AWGN signals as previously described (e.g., 4.1 MHz OBW).
- c) Set the center frequencies such that the AWGN signals occupy adjacent channels, as defined by industry standards such as 3GPP or 3GPP2, at the upper edge of the frequency band or block under test.
- d) Set the composite power levels such that the input signal is just below the AGC threshold (see 3.2), but not more than 0.5 dB below. The composite power can be measured using the procedures provided in KDB Publication 971168 [R8], but it will be necessary to expand the power integration bandwidth so as to include both of the transmit channels. Alternatively, the composite power can be measured using an average power meter as described in KDB Publication 971168 [R8].
- e) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.
- f) Set the RBW = reference bandwidth in the applicable rule section for the supported frequency band (typically 1 % of the EBW or 100 kHz or 1 MHz)
- g) Set the VBW = $3 \times \text{RBW}$.
- h) Set the detector to power averaging (rms) detector.
- i) Set the Sweep time = auto-couple.
- j) Set the spectrum analyzer start frequency to the upper block edge frequency, and the stop frequency to the upper block edge frequency plus 300 kHz or 3 MHz, for frequencies below and above 1 GHz, respectively.
- k) Trace average at least 100 traces in power averaging (rms) mode.
- l) Use the marker function to find the maximum power level.
- m) Capture the spectrum analyzer trace of the power level for inclusion in the test report.
- n) Repeat steps k) to m) with the composite input power level set to 3 dB above the AGC threshold.
- o) Reset the frequencies of the input signals to the lower edge of the frequency block or band under test.



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- p) Reset the spectrum analyzer start frequency to the lower block edge frequency minus 300 kHz or 3 MHz, for frequencies below and above 1 GHz, respectively, and the stop frequency to the lower band or block edge frequency.
- q) Repeat steps k) to n).
- r) Repeat steps a) to q) with the signal generator configured for a single test signal tuned as close as possible to the block edges.
- s) Repeat steps a) to r) with the narrowband test signal.
- t) Repeat steps a) to s) for all authorized frequency bands or blocks used by the EUT.

7.1.3 Spurious emissions conducted measurements

- a) Connect a signal generator to the input of the EUT.
- b) Set the signal generator to produce the broadband test signal as previously described (i.e., 4.1 MHz OBW AWGN).
- c) Set the center frequency of the test signal to the lowest available channel within the frequency band or block.
- d) Set the EUT input power to a level that is just below the AGC threshold (see 3.2), but not more than 0.5 dB below.
- e) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.
- f) Set the RBW = reference bandwidth in the applicable rule section for the supported frequency band of operation (e.g., reference bandwidth is typically 100 kHz or 1 MHz).
- g) Set the VBW $\geq 3 \times$ RBW.
- h) Set the Sweep time = auto-couple.
- i) Set the spectrum analyzer start frequency to the lowest RF signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part. The number of measurement points in each sweep must be $\geq (2 \times \text{span}/\text{RBW})$, which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.⁴
- j) Select the power averaging (rms) detector function.
- k) Trace average at least 10 traces in power averaging (rms) mode.
- l) Use the peak marker function to identify the highest amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.
- m) Reset the spectrum analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the spectrum analyzer stop frequency to 10 times the highest frequency of the fundamental emission (see Section 2.1057). The number of measurement points in each sweep must be $\geq (2 \times \text{span}/\text{RBW})$, which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.
- n) Trace average at least 10 traces in power averaging (rms) mode.
- o) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report; also provide tabular data, if required.
- p) Repeat steps i) to o) with the input test signals firstly tuned to a middle band/block frequency/channel, and then tuned to a high band/block frequency/channel.
- q) Repeat steps b) to p) with the narrowband test signal.
- r) Repeat steps b) to q) for all authorized frequency bands/blocks used by the EUT.



Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

7.2 Test Results

Measuring out-of-band/out-of-block (including intermodulation) emissions / Conducted spurious emission

Test date: May 12, 2025-March

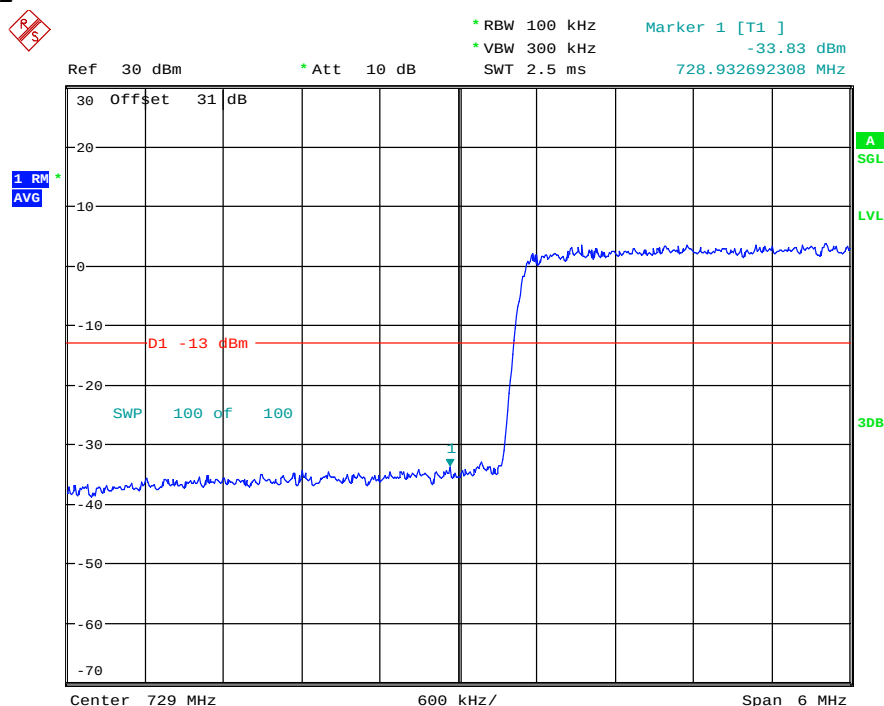
Temperature: 23.4°C

Humidity: 58.0%

Tester: Sora

Out-of-band emissions

LTE Band 12

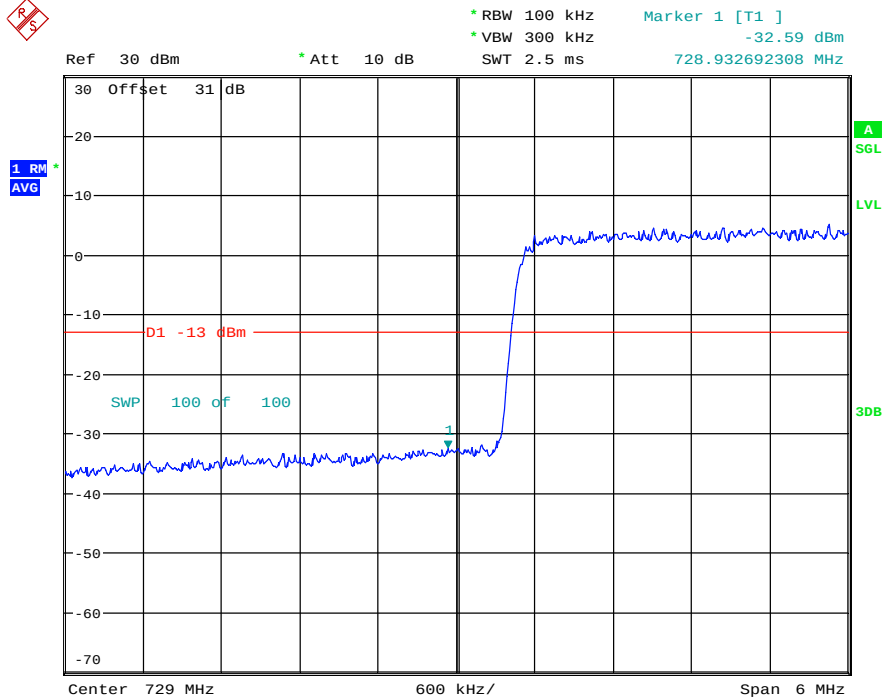


Date: 12.MAY.2025 09:48:33

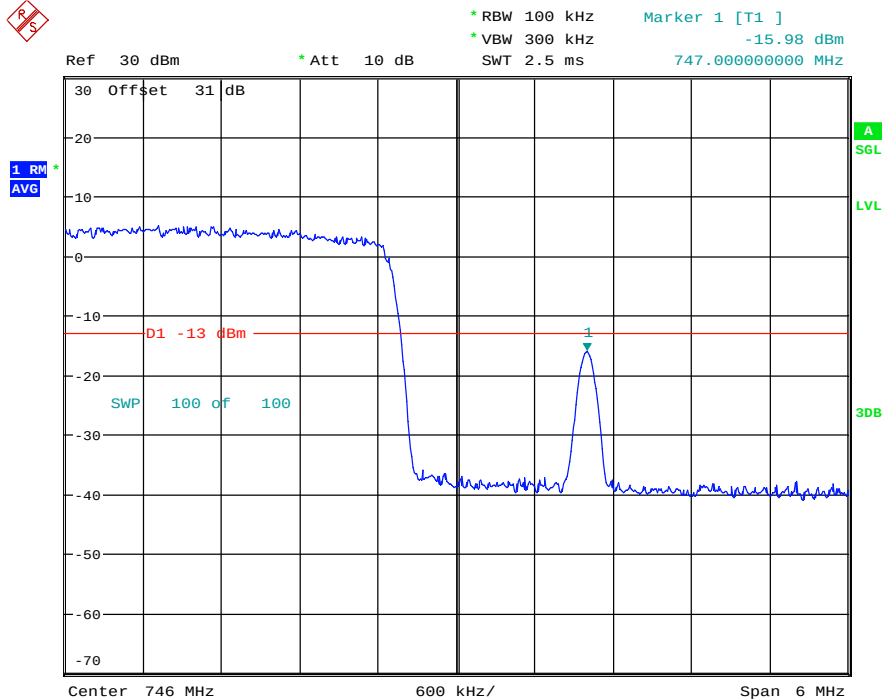


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:53:08

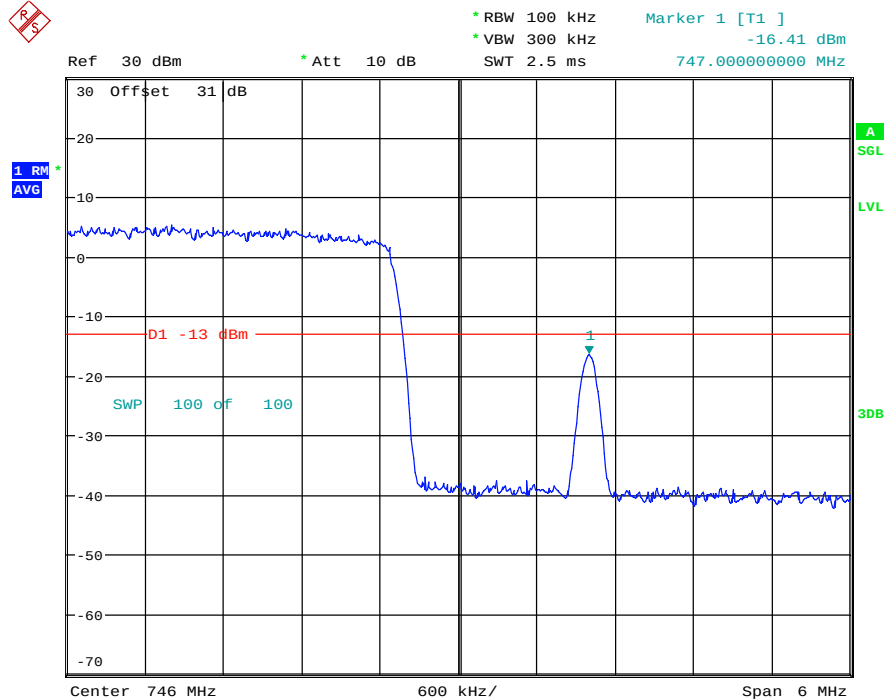


Date: 12.MAY.2025 10:00:17

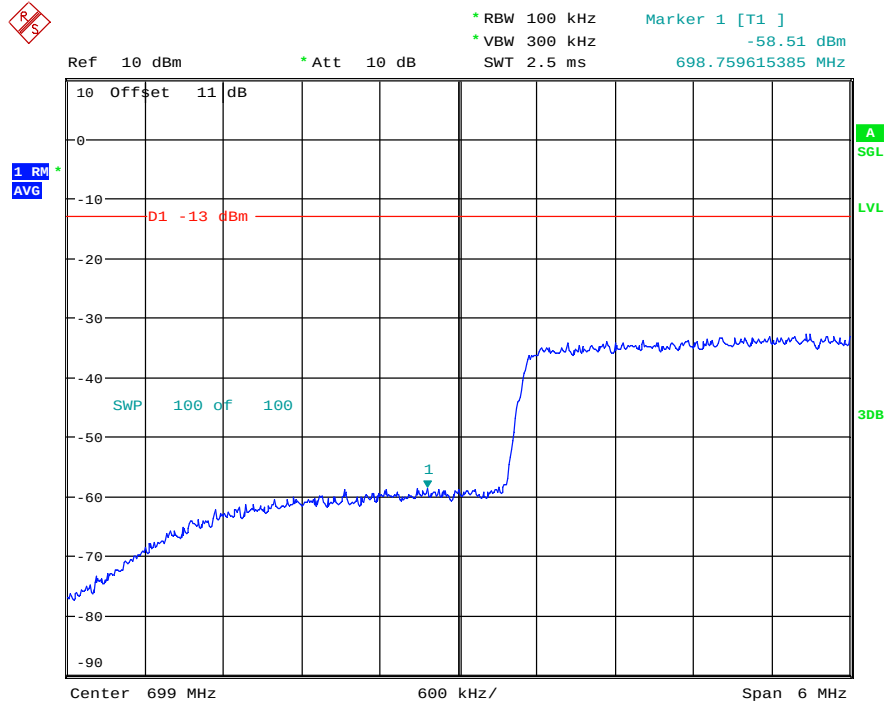


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



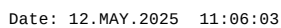
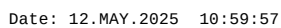
Date: 12.MAY.2025 10:01:50



Date: 12.MAY.2025 10:58:18



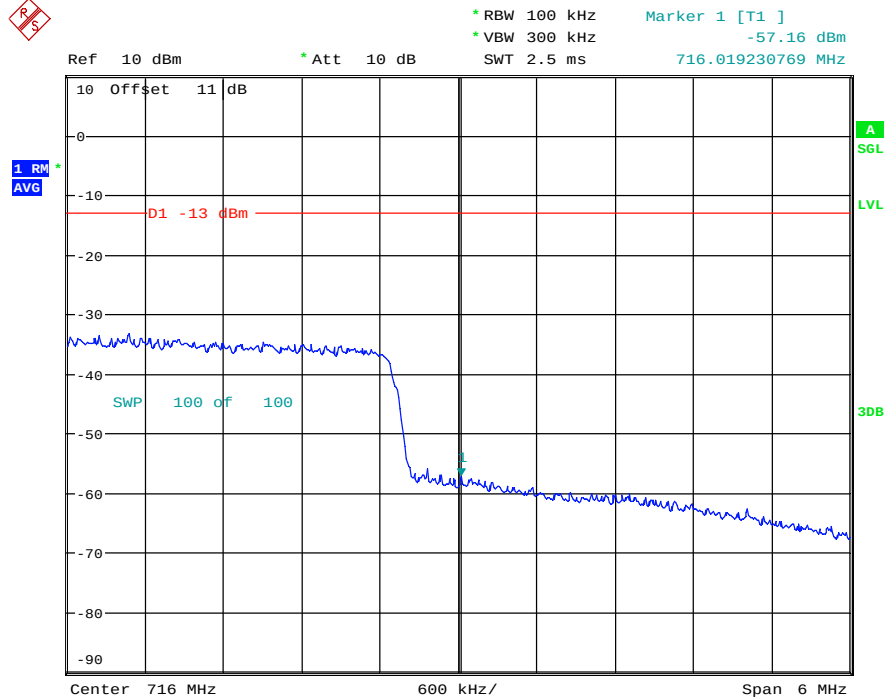
FCC ID: 2ASOXZONEDASTWO





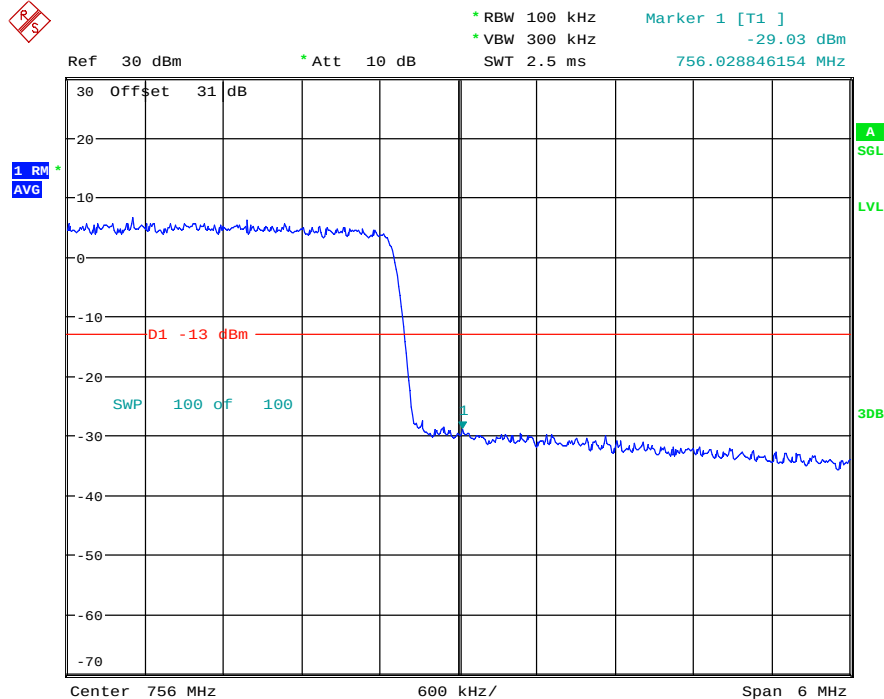
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:07:46

LTE Band 13

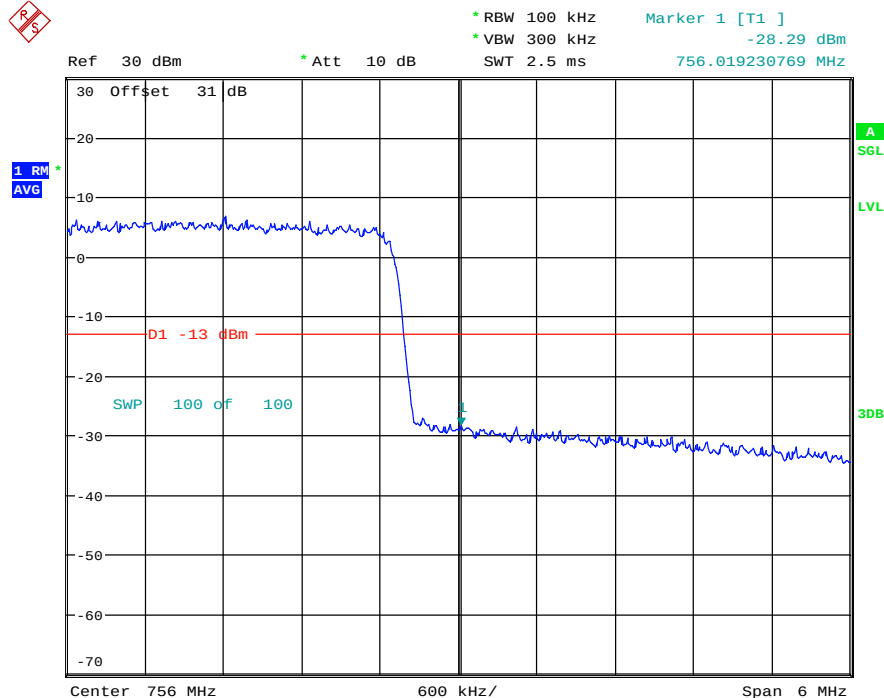


Date: 10.MAY.2025 17:49:32

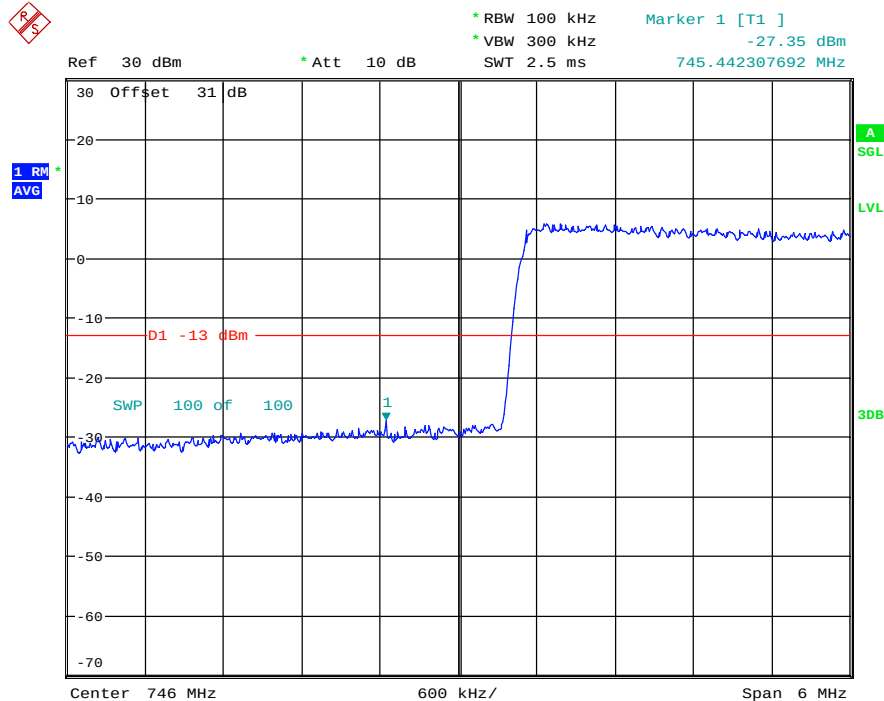


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 10.MAY.2025 17:52:16

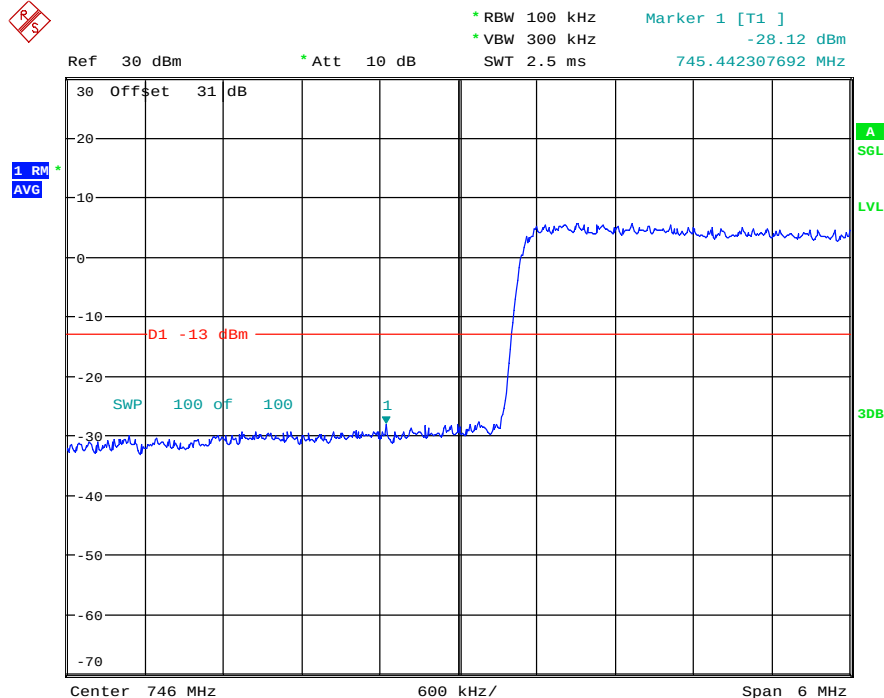


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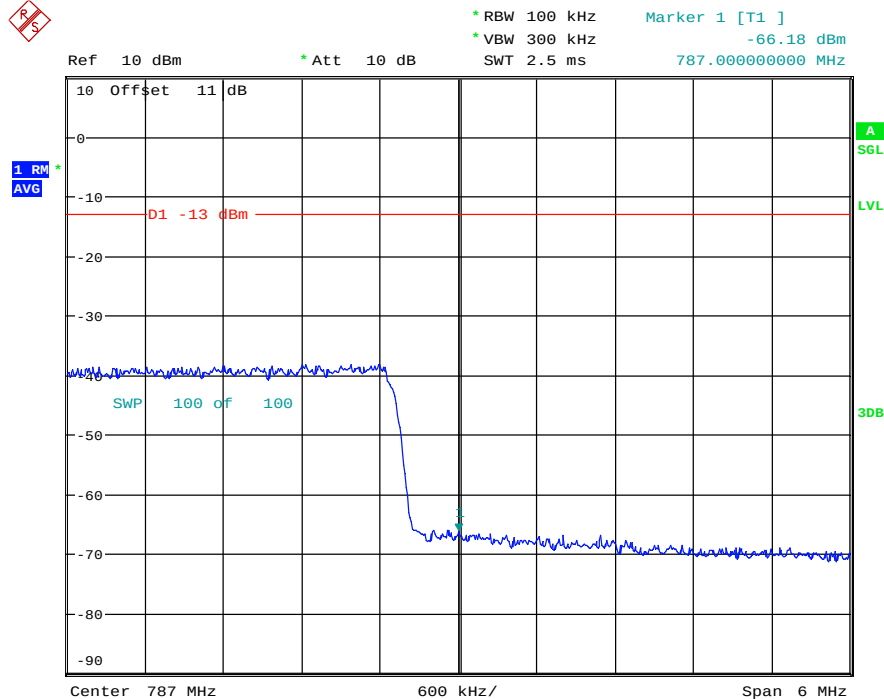


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 10.MAY.2025 17:52:43

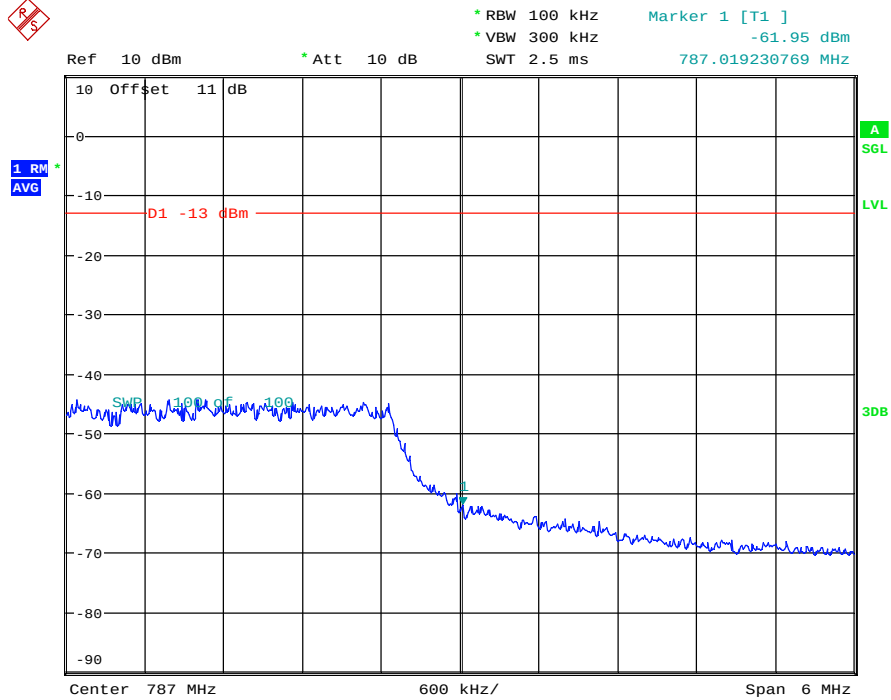


Date: 12.MAY.2025 11:23:56

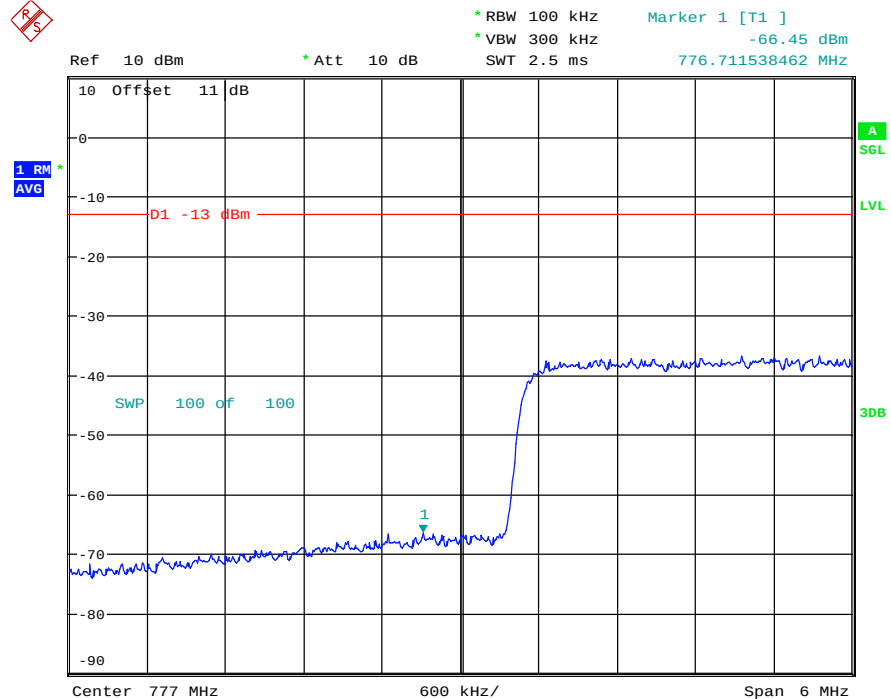


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:28:08

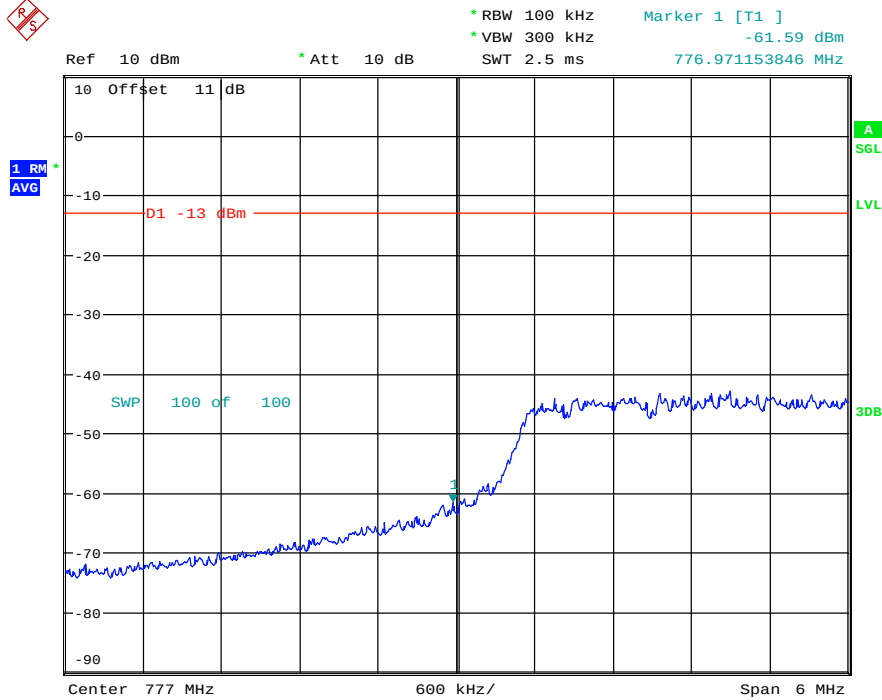


Date: 12.MAY.2025 11:24:18



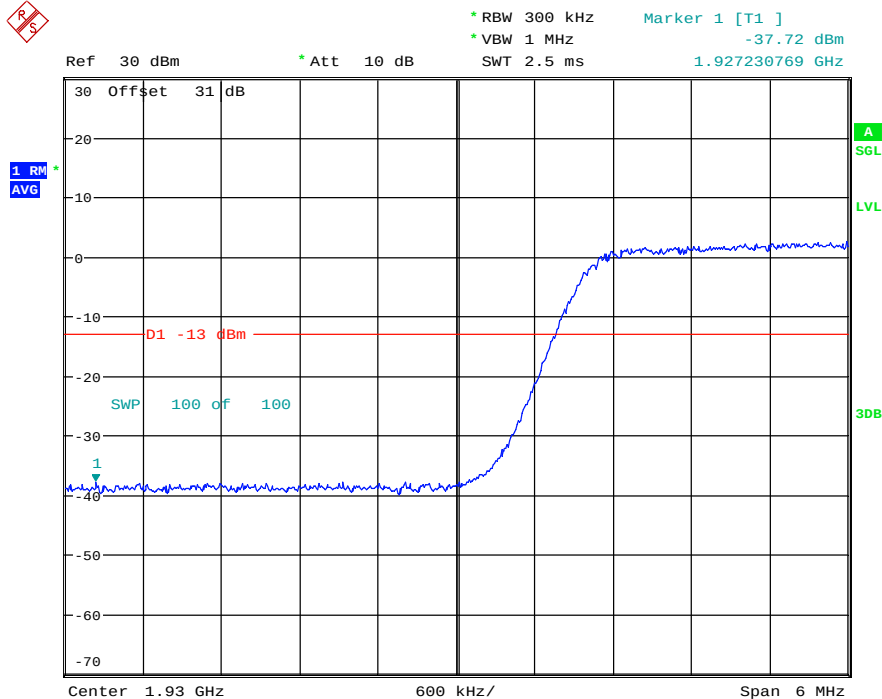
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:27:39

LTE Band 25

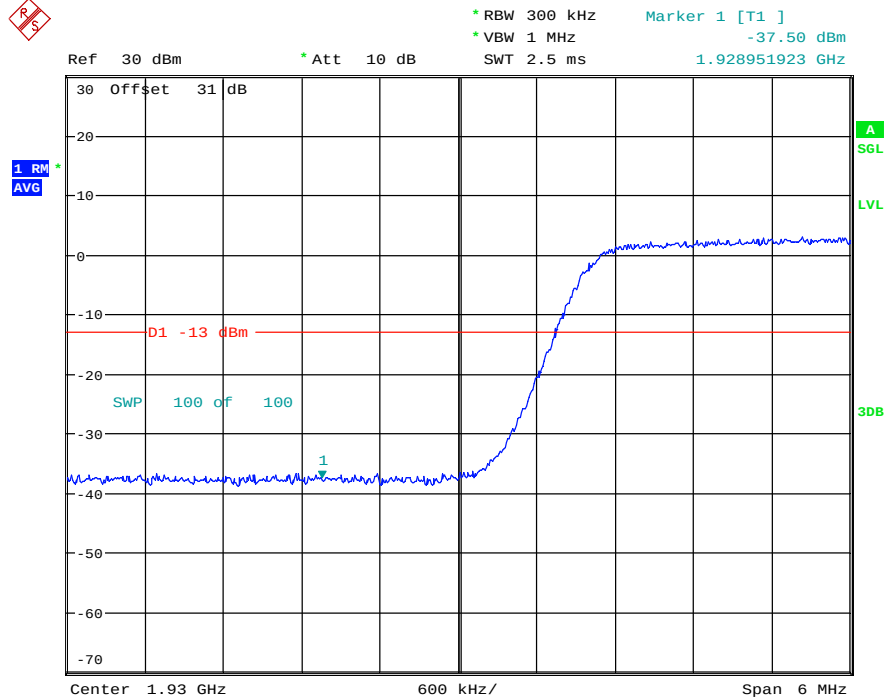


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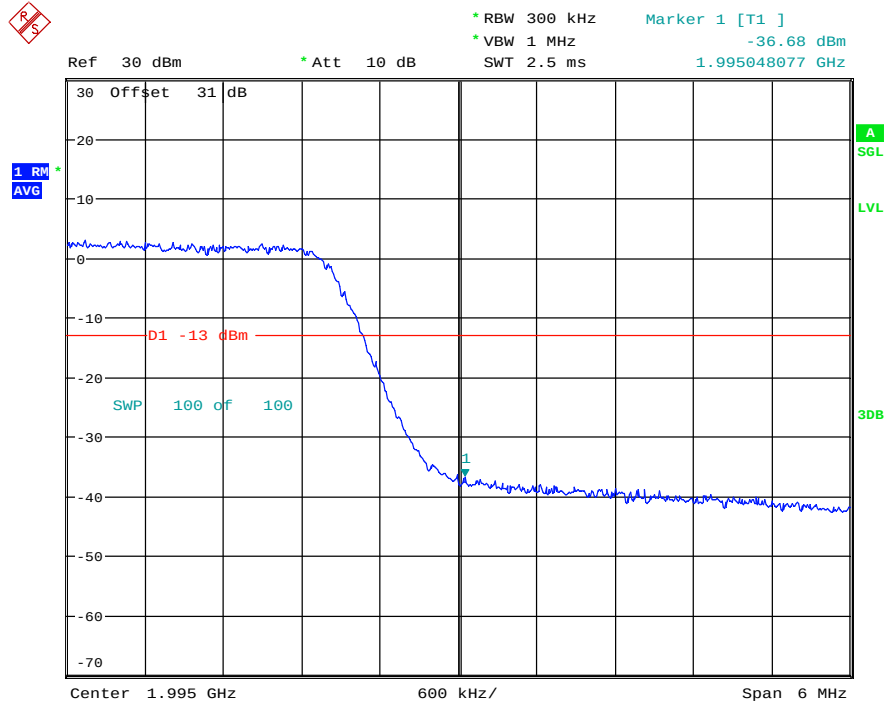


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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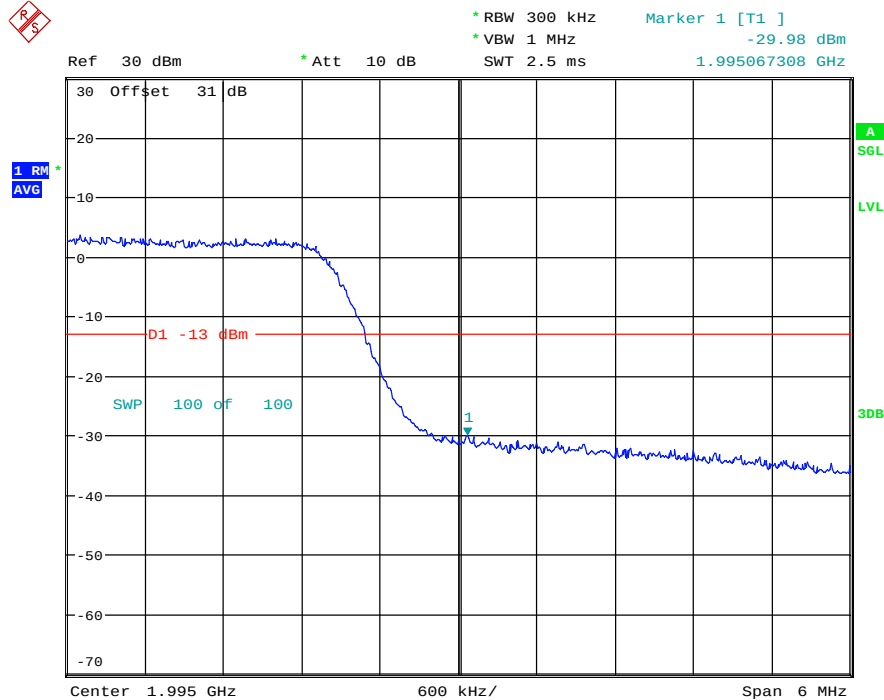


Date: 12.MAY.2025 08:52:48

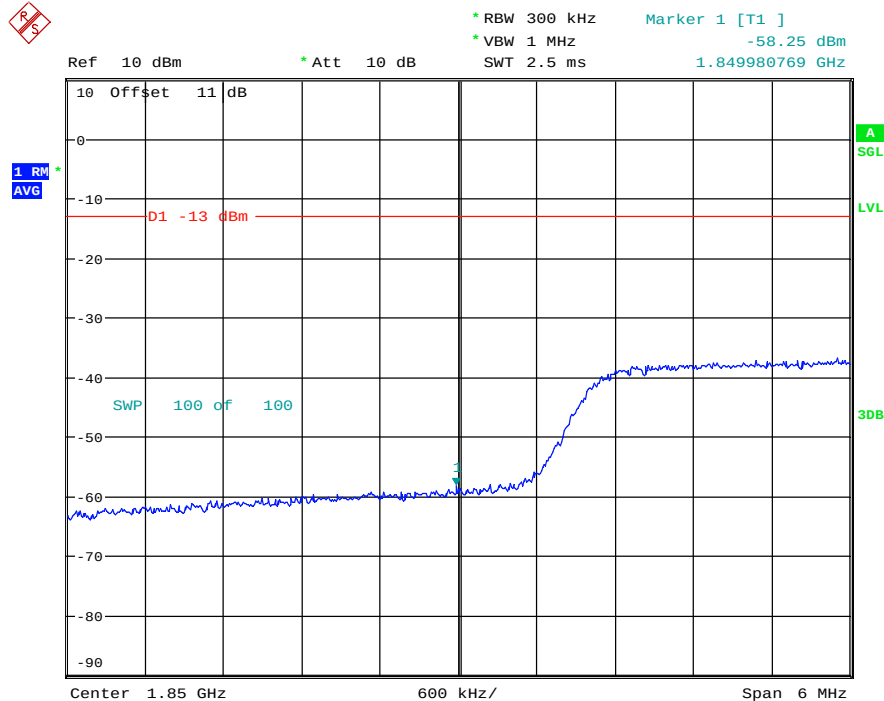


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 08:58:16

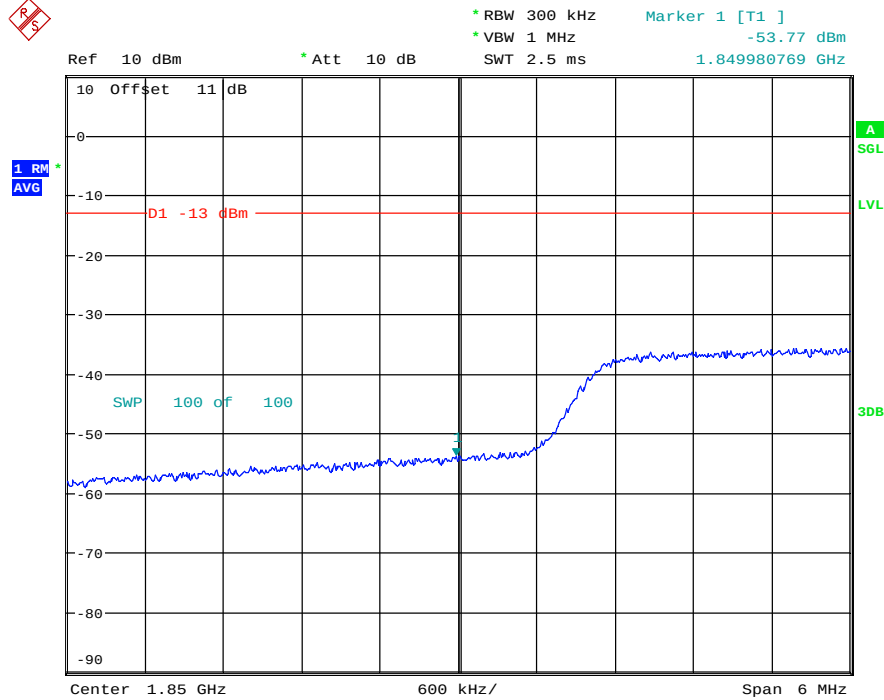


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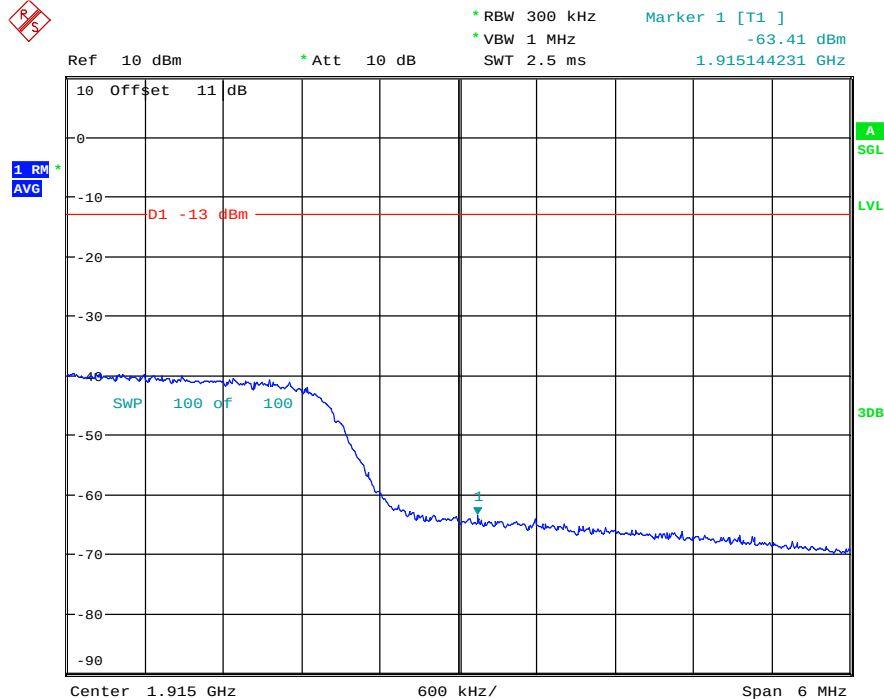


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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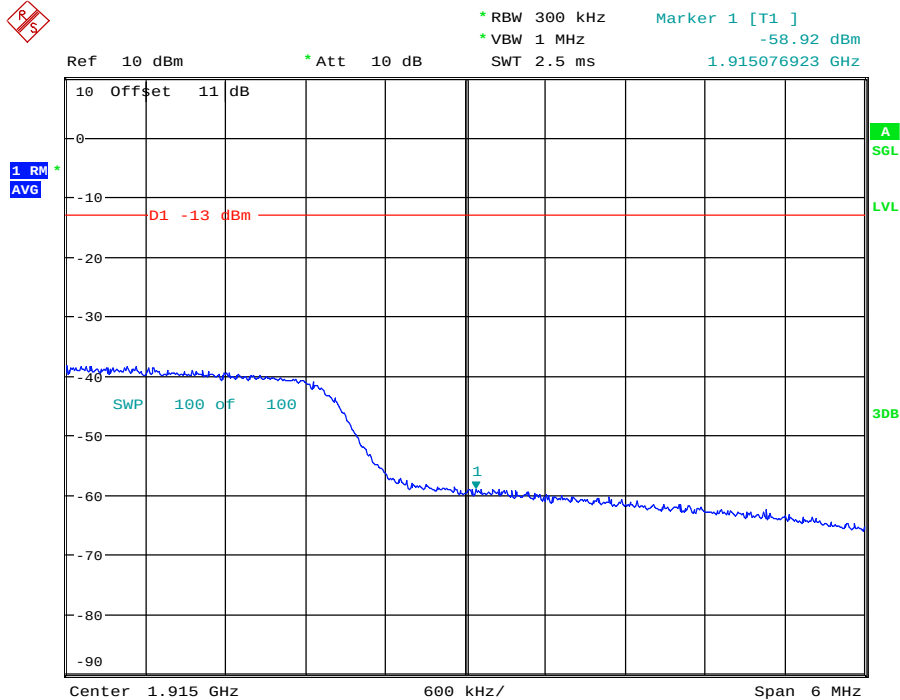


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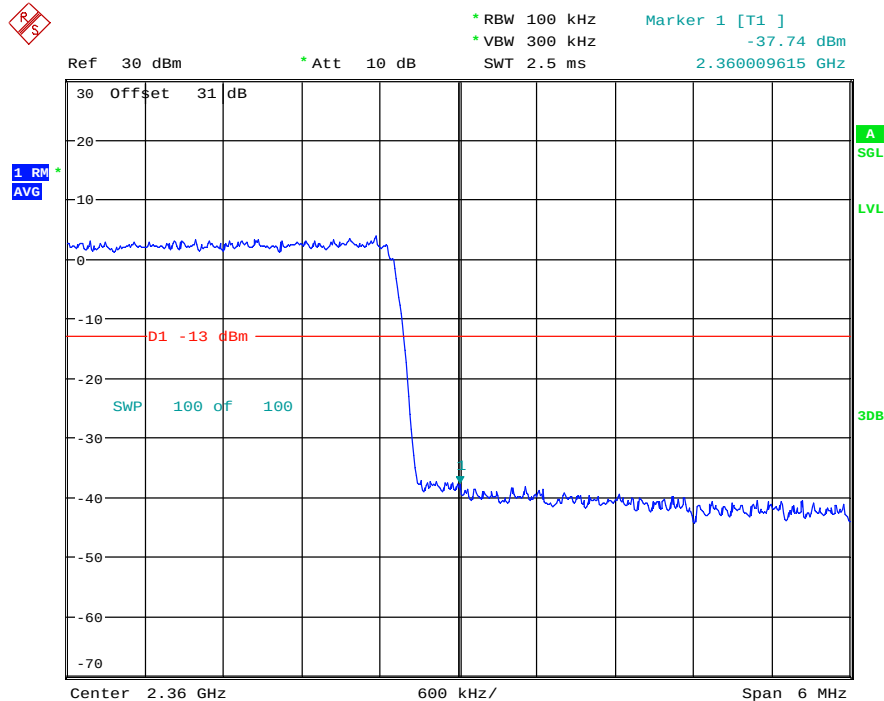
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Date: 12.MAY.2025 13:26:56

LTE Band 30

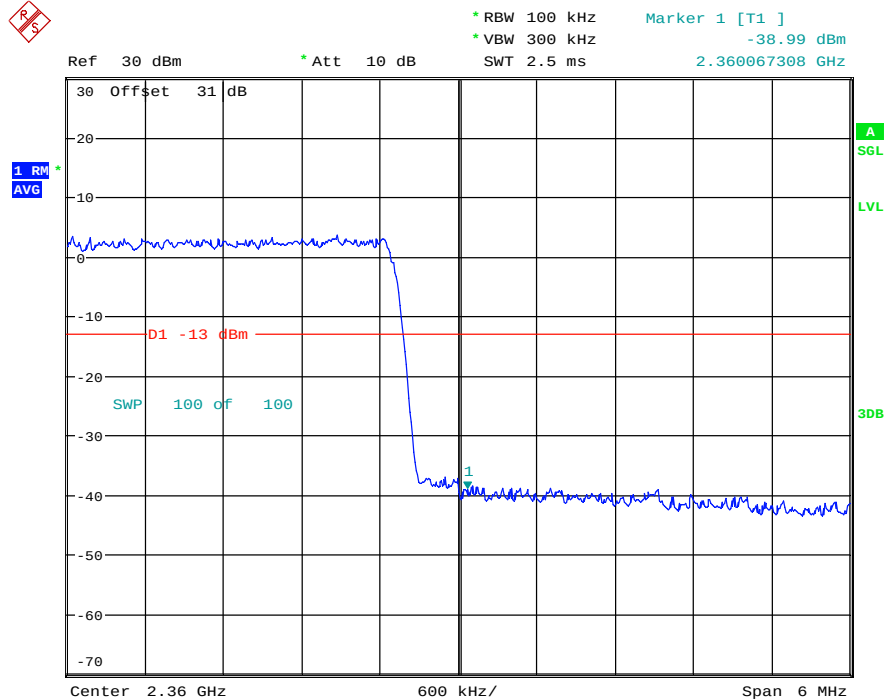


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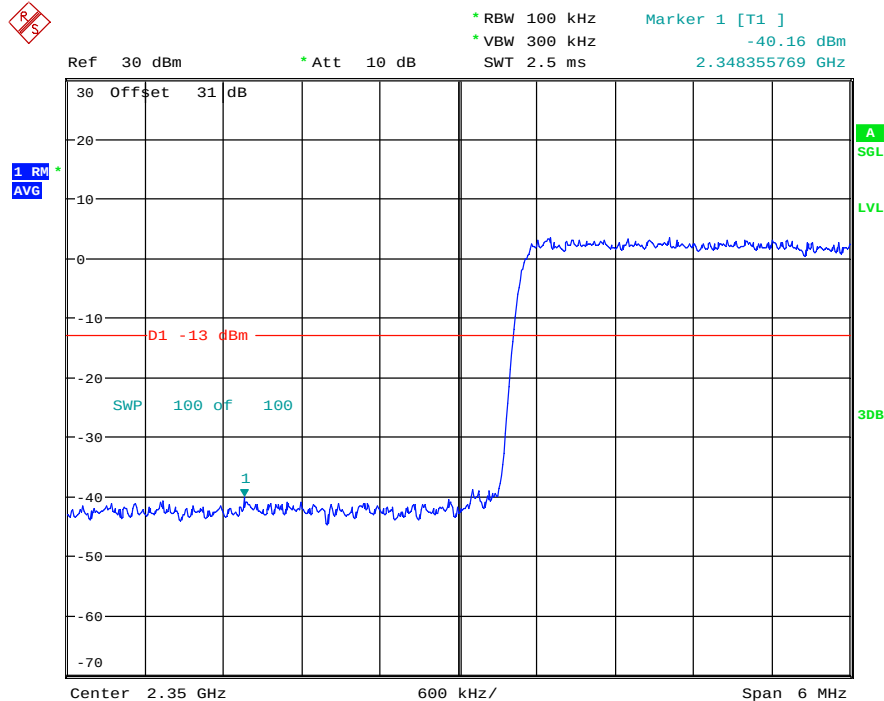


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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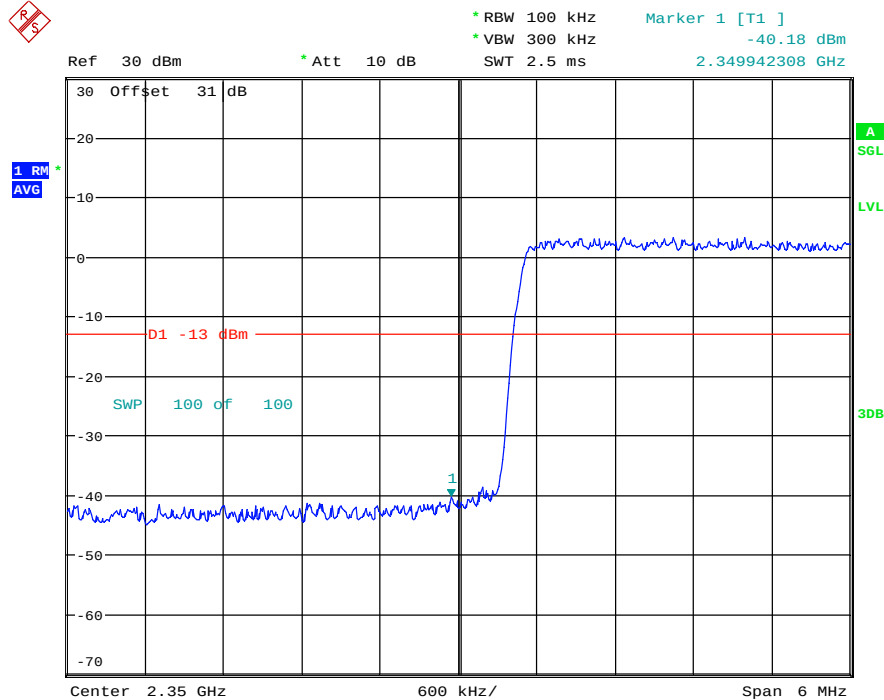


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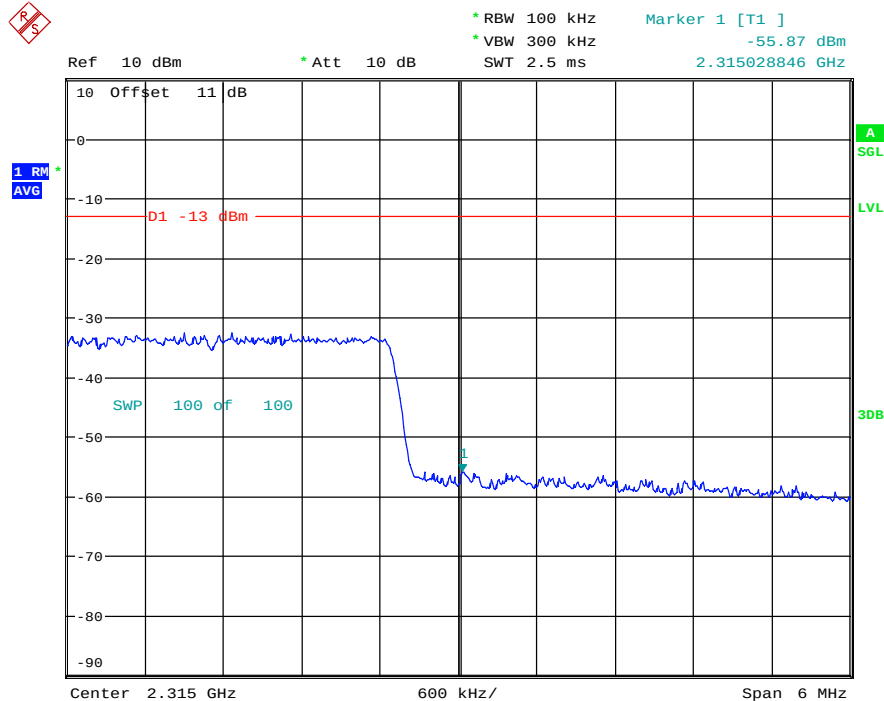


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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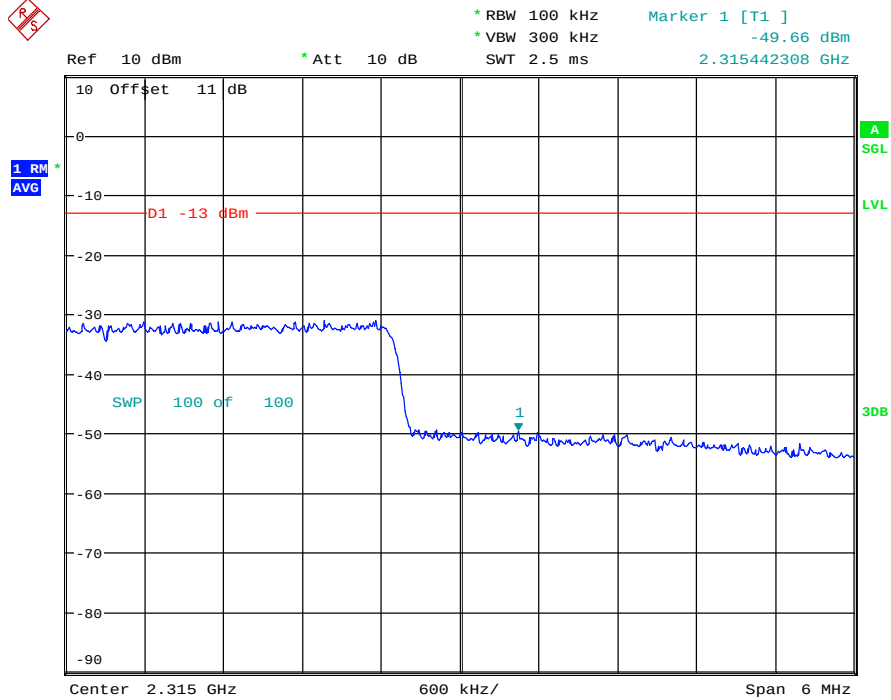


Date: 12.MAY.2025 11:42:35

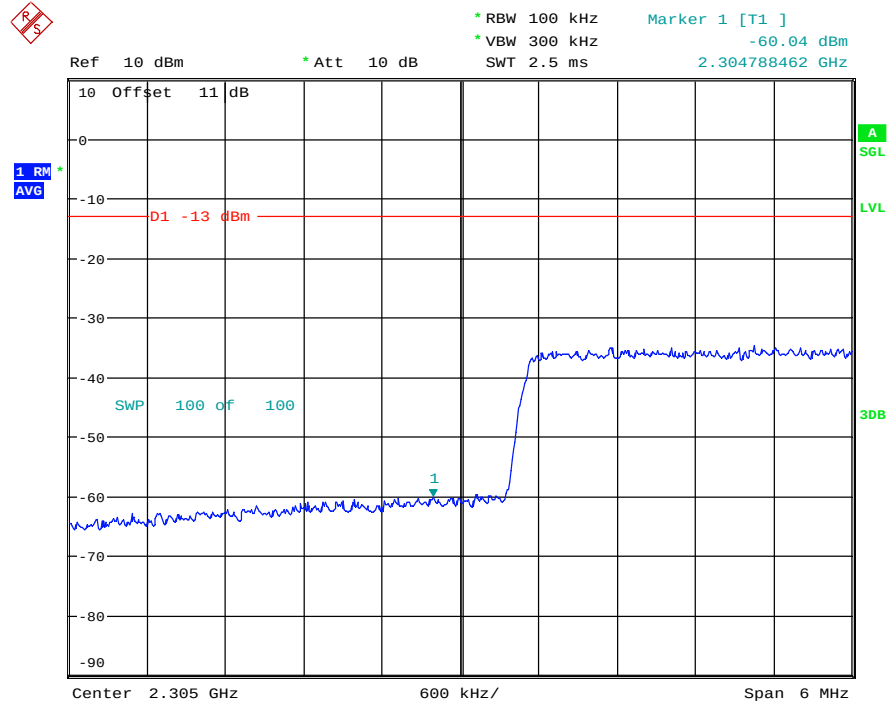


Report Number: W6M22504-24316-P-20

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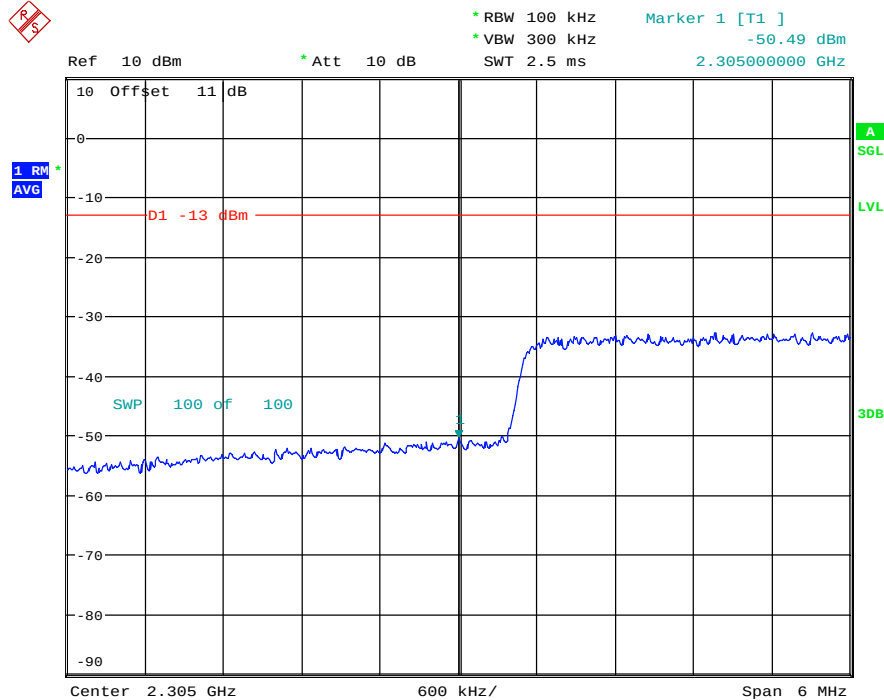


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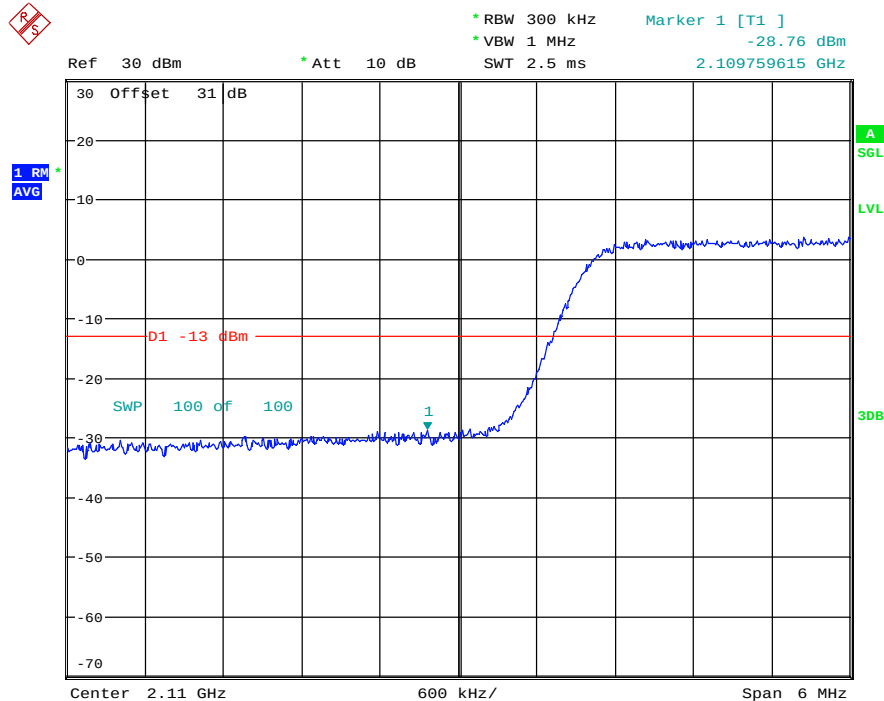
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:45:35

LTE Band 66

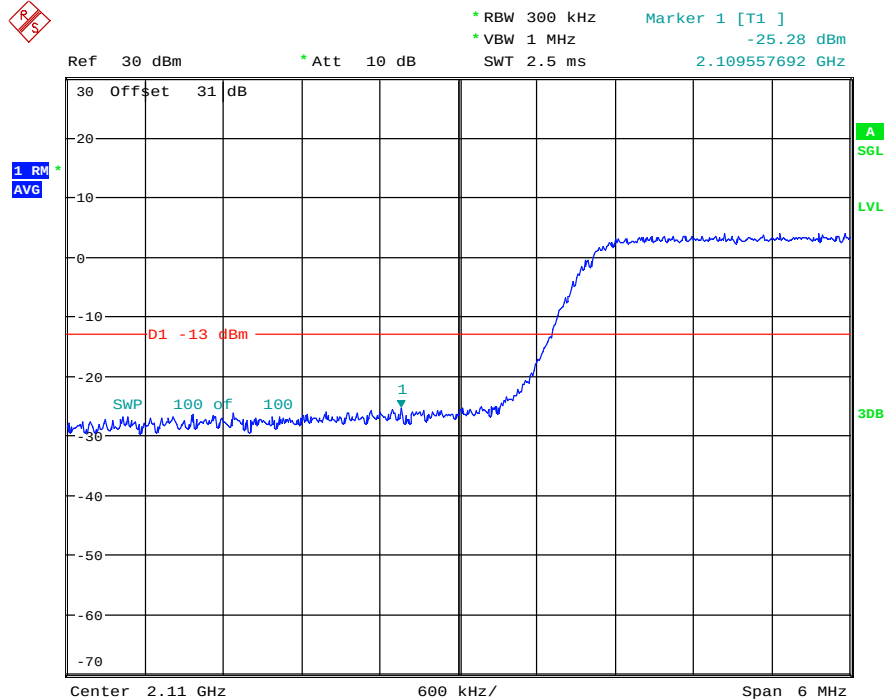


Date: 12.MAY.2025 09:16:21

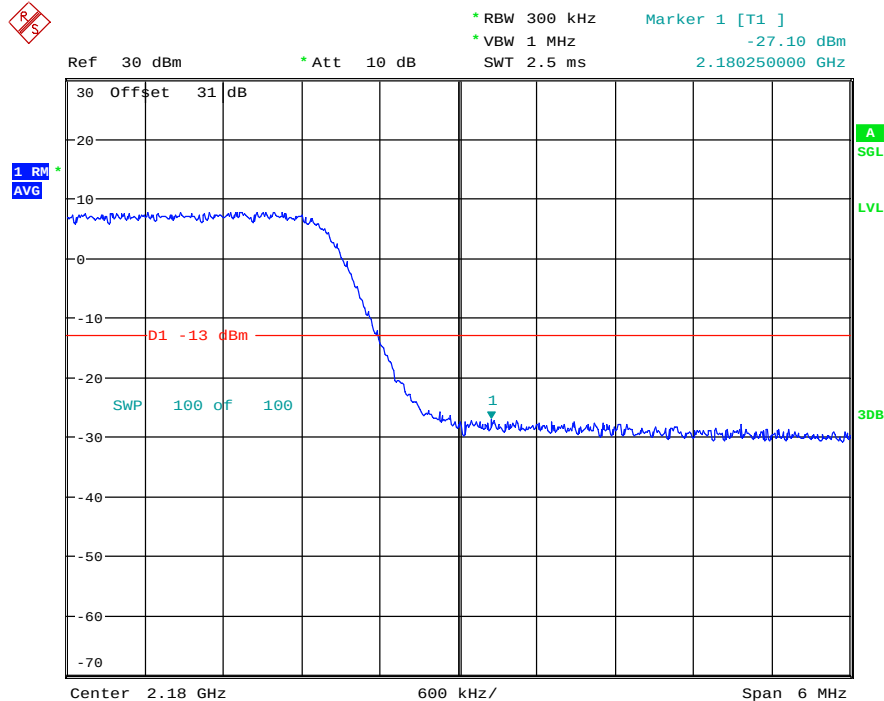


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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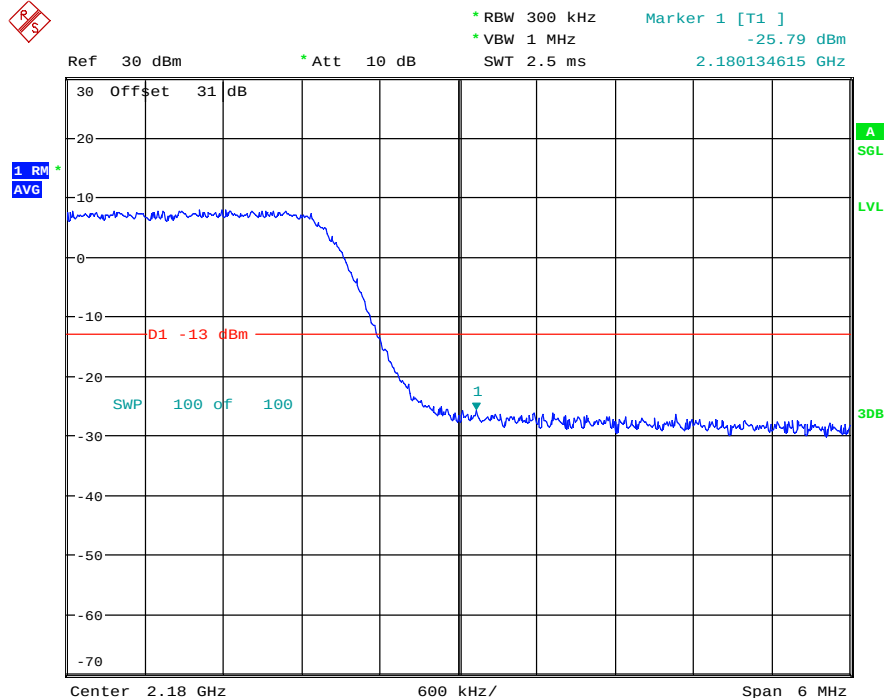


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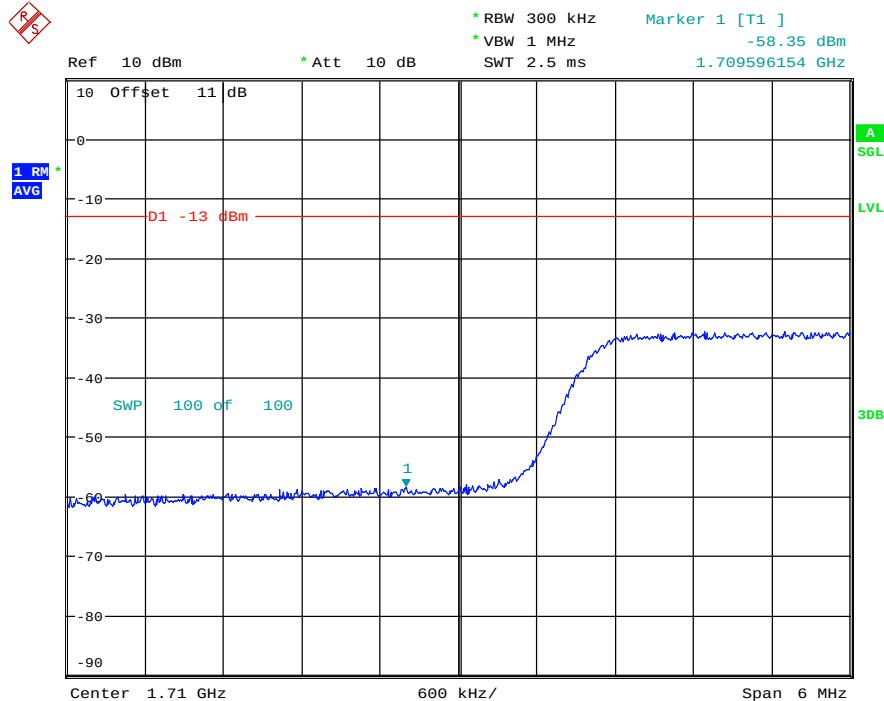


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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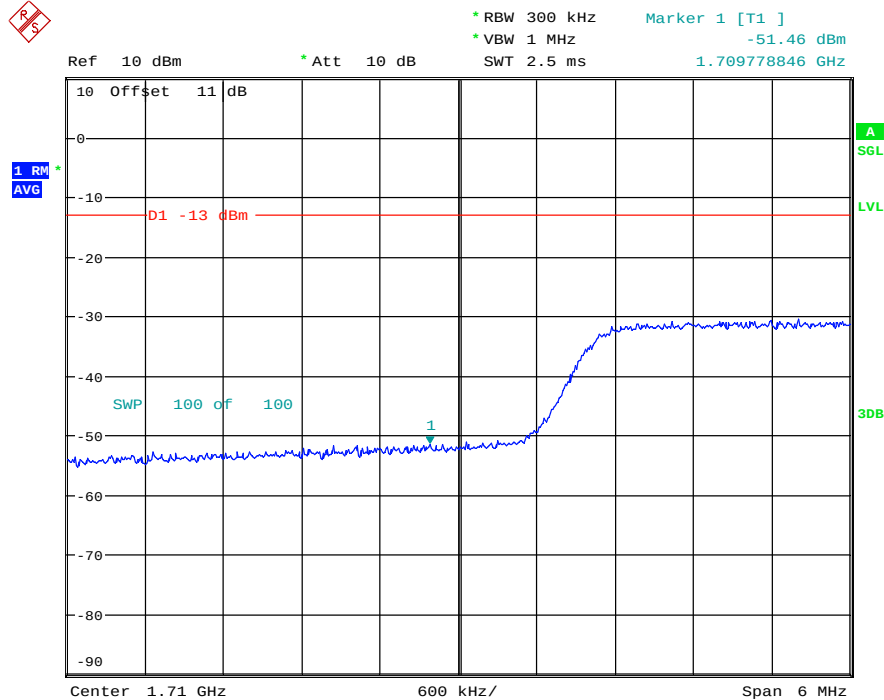


Date: 12.MAY.2025 13:39:48

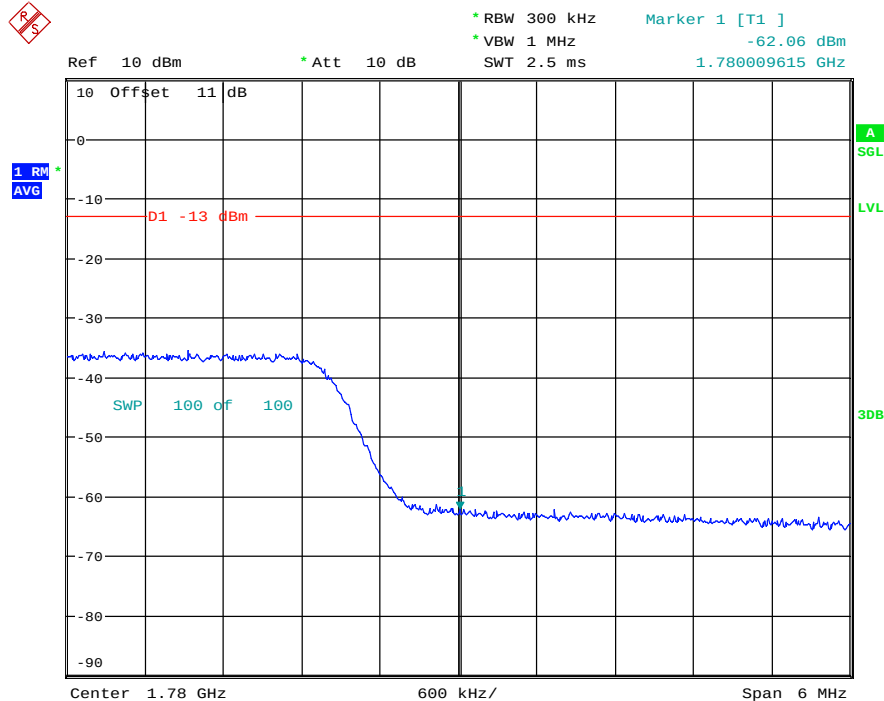


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FCC ID: 2ASQXZONEDASTWO



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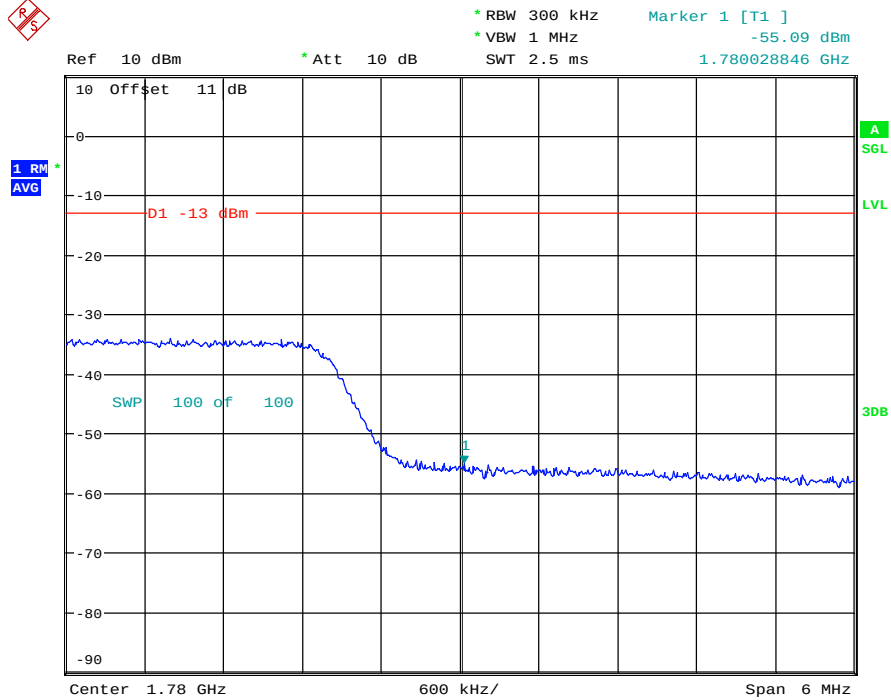


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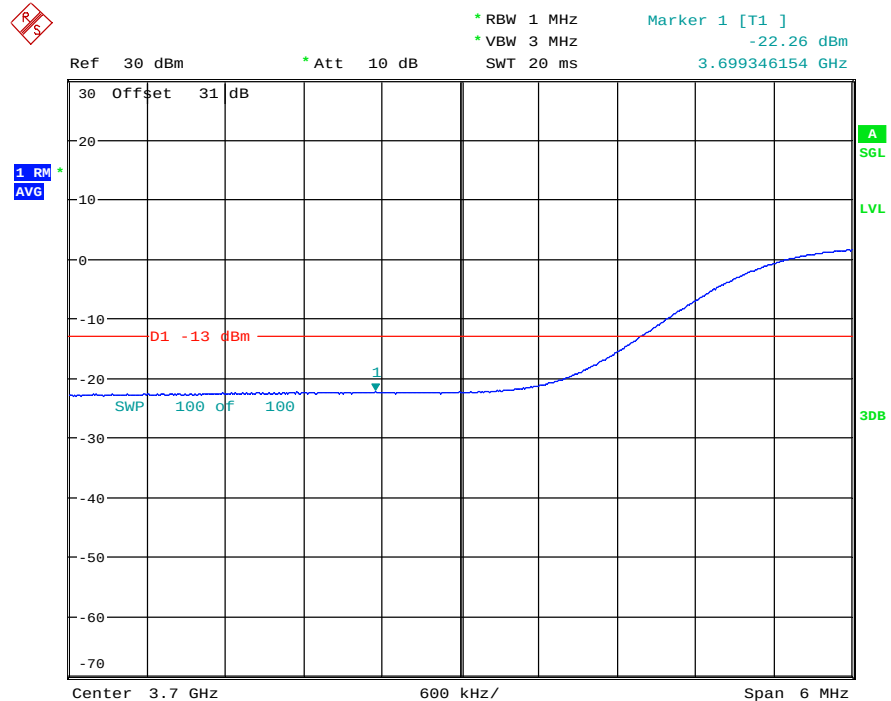
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 13:52:09

5GNR n77

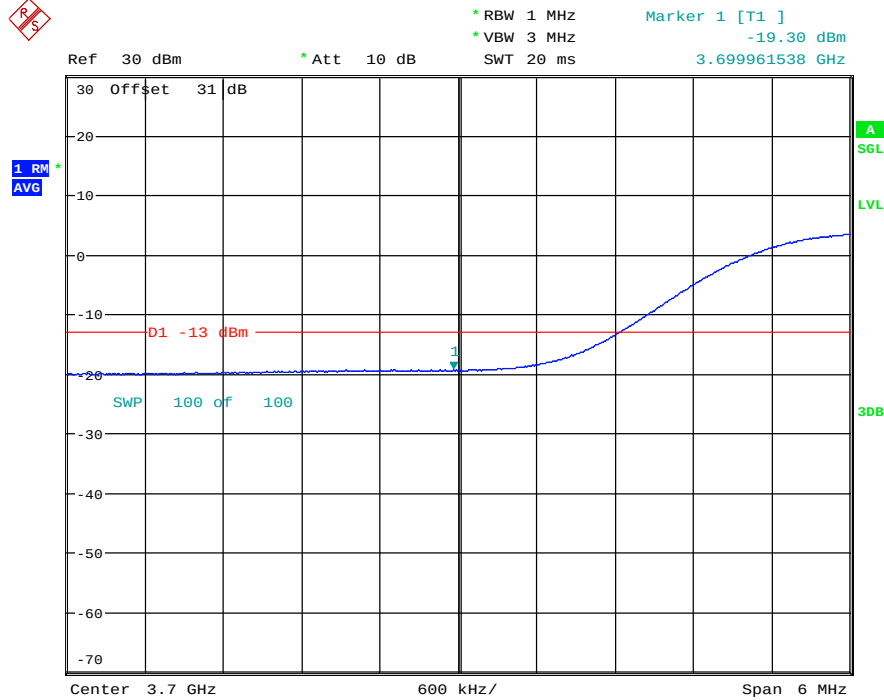


Date: 12.MAY.2025 10:12:36

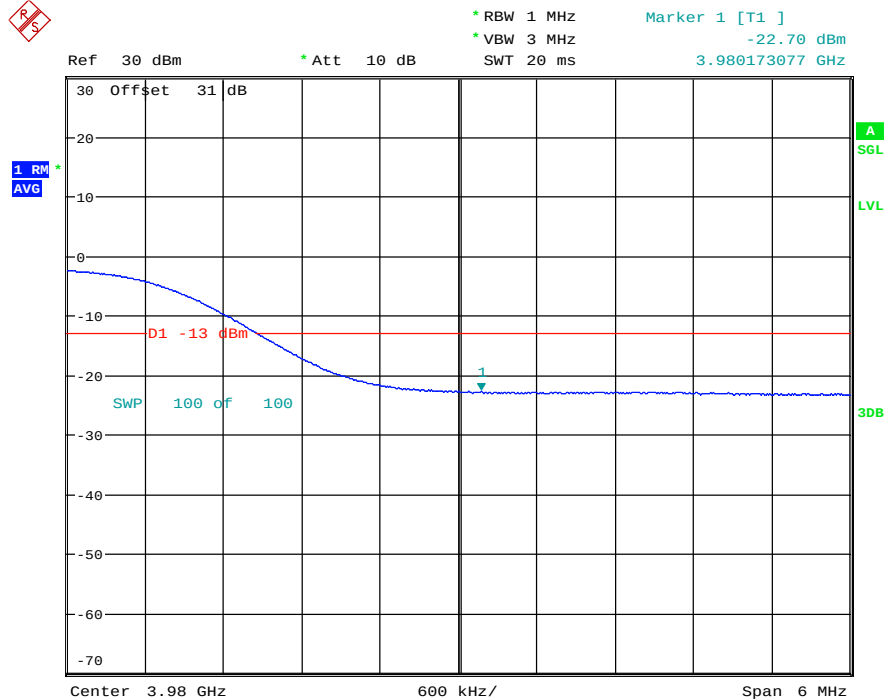


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:14:23

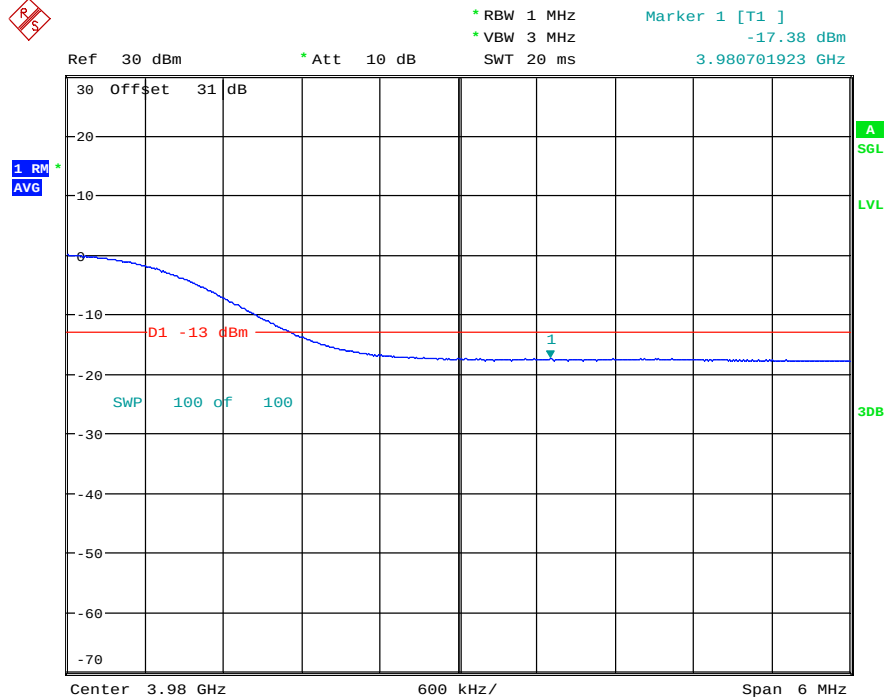


Date: 12.MAY.2025 10:22:17

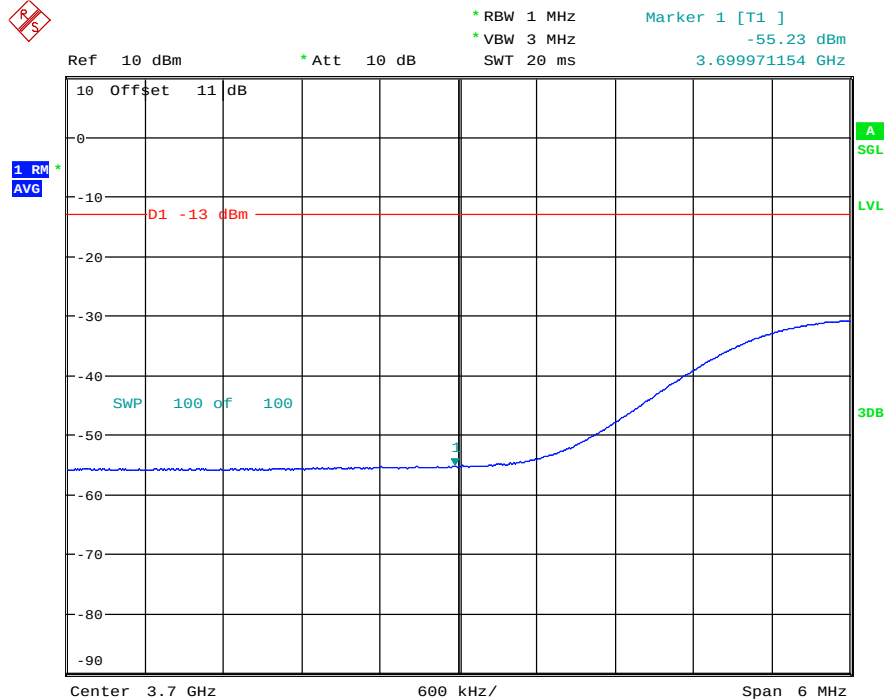


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:23:32

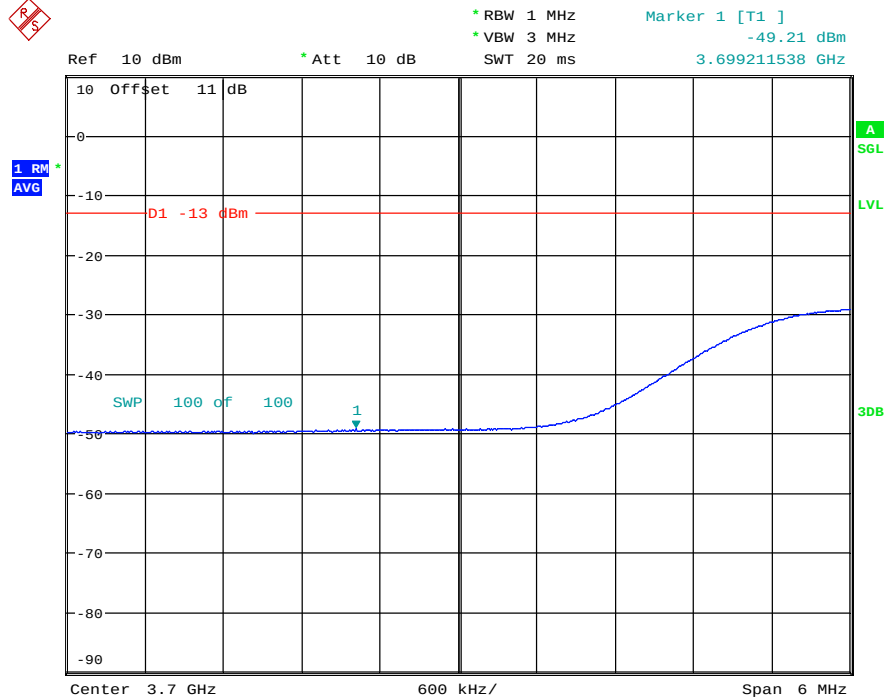


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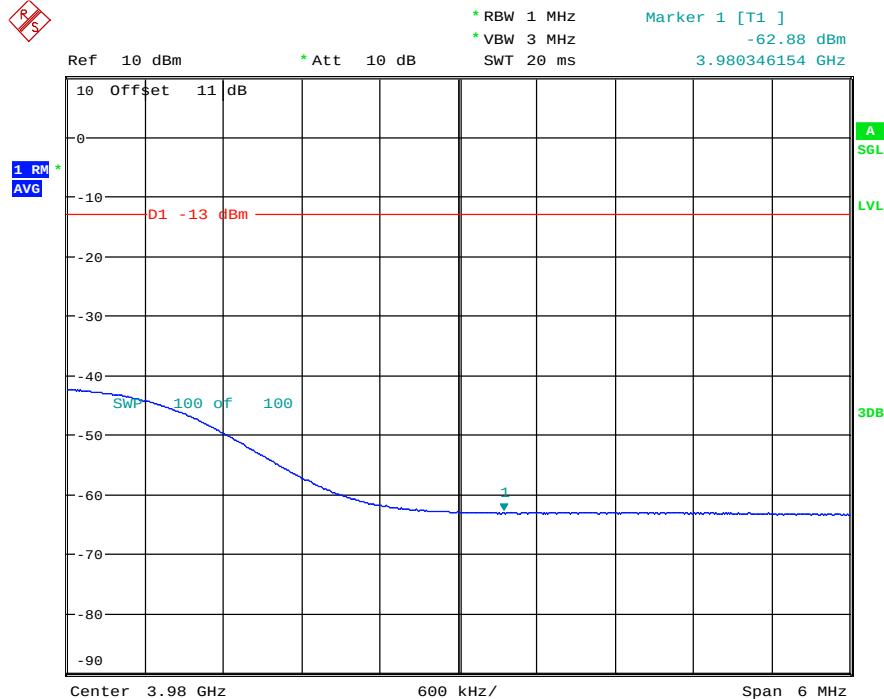


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:45:09

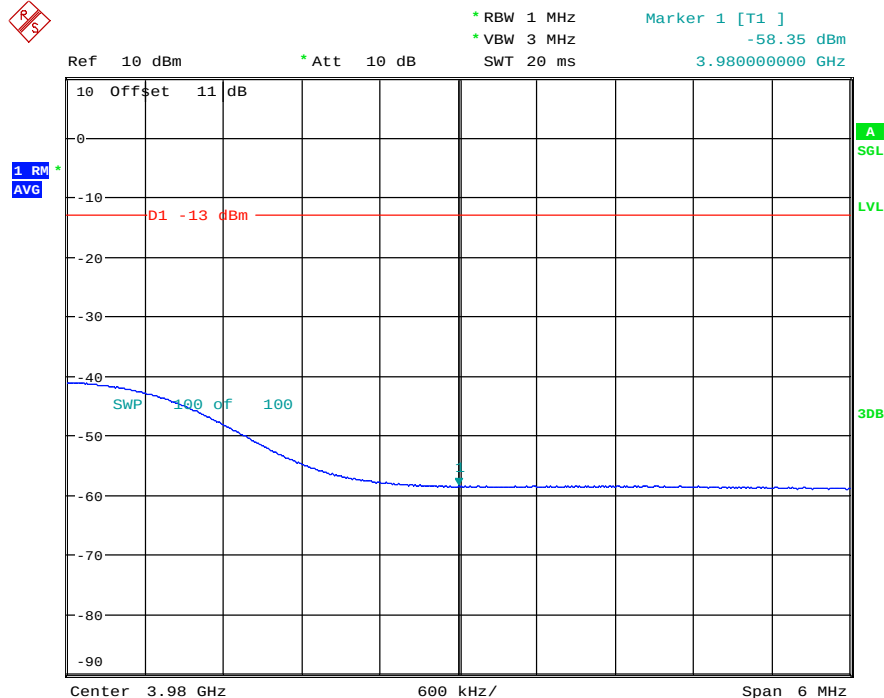


Date: 12.MAY.2025 10:34:44



Report Number: W6M22504-24316-P-20

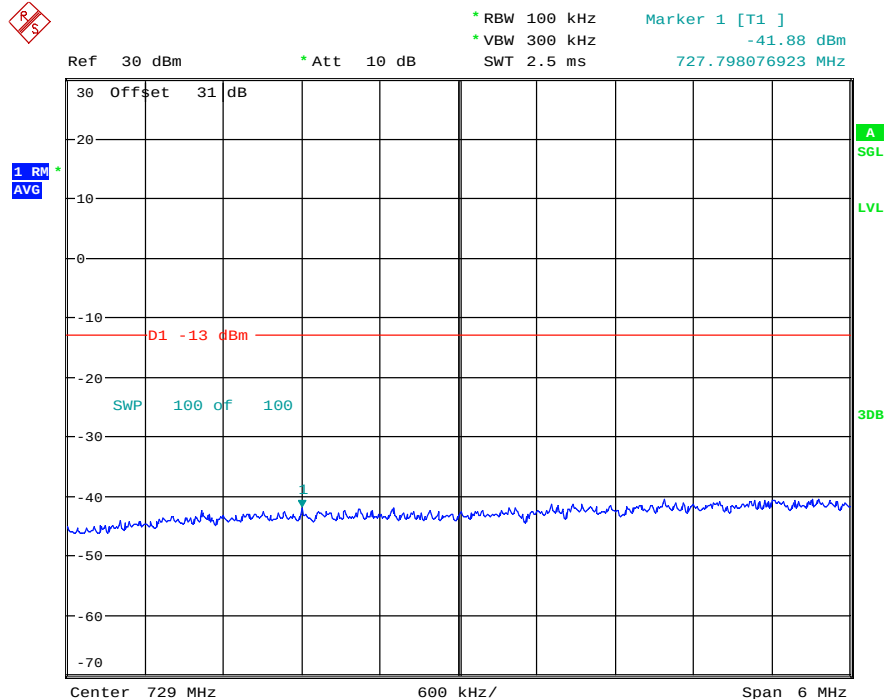
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Date: 12.MAY.2025 10:36:27

Out-of-block (including intermodulation) emissions

LTE Band 12

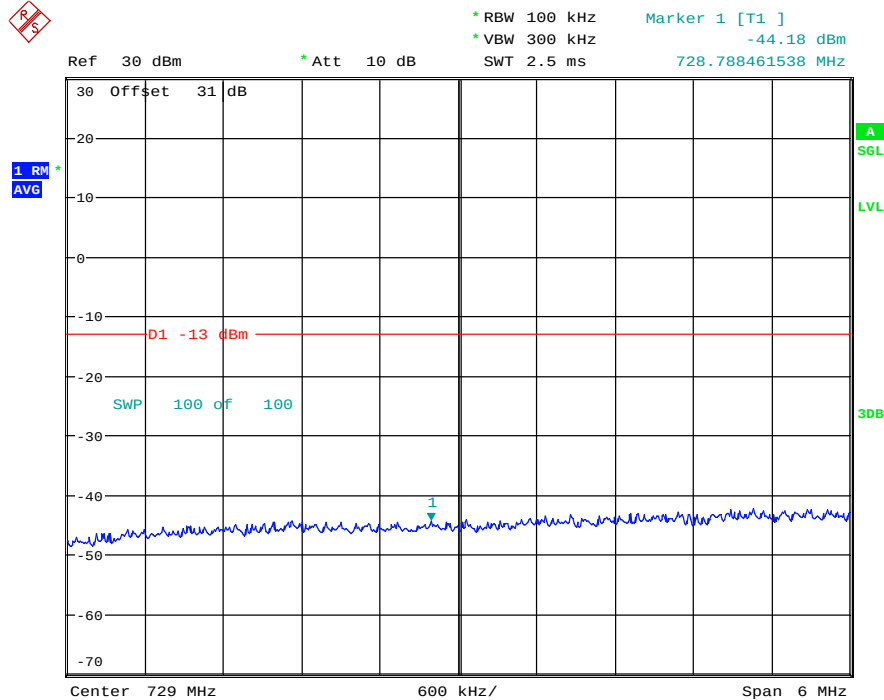


Date: 12.MAY.2025 09:49:42

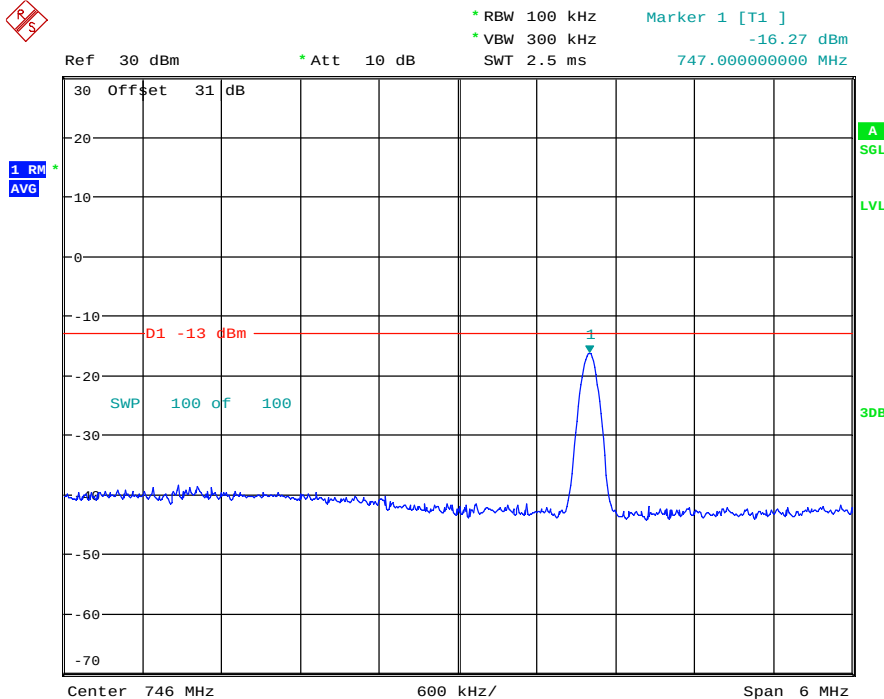


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:53:45

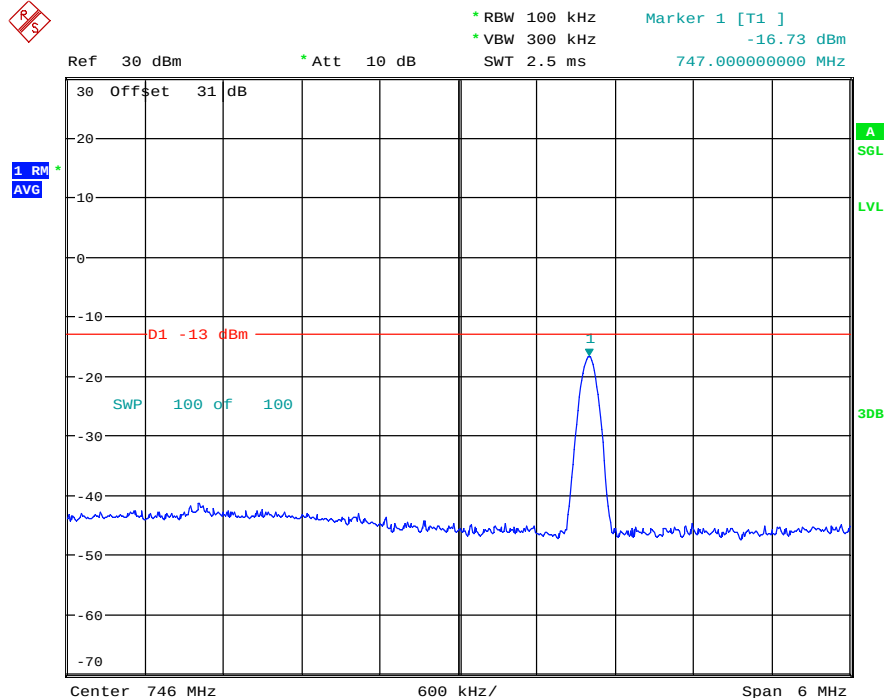


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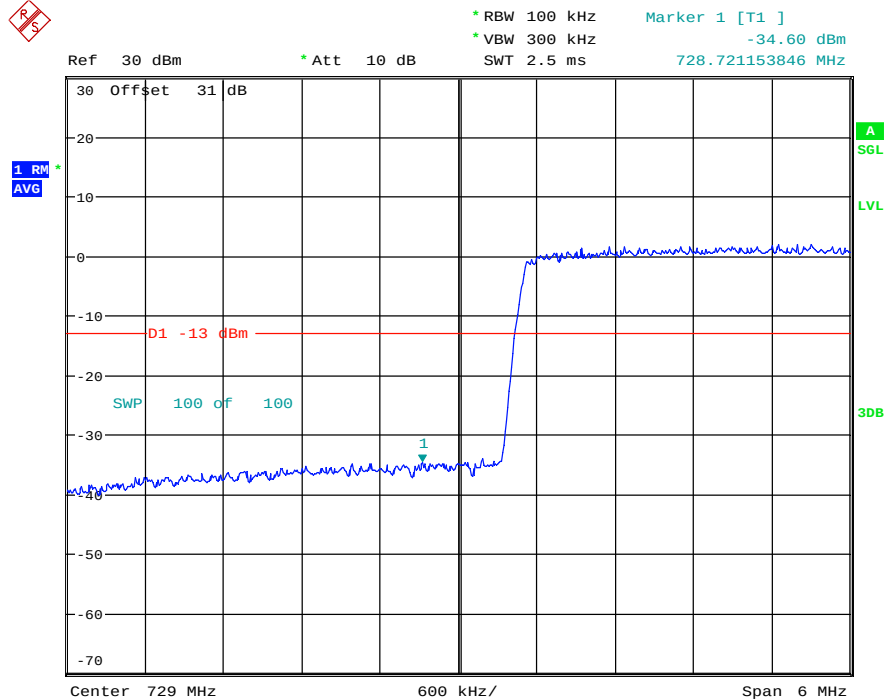


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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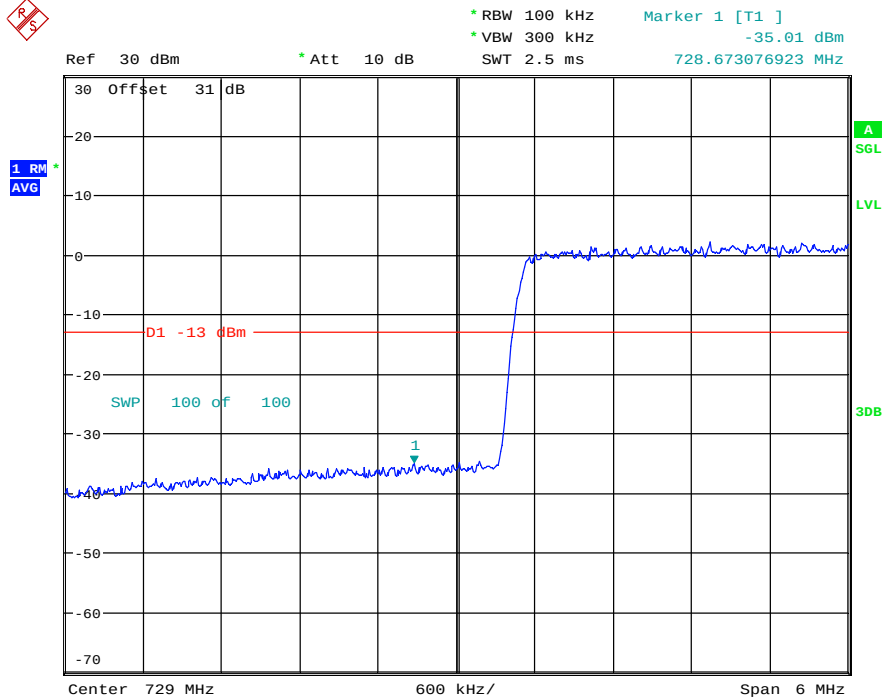


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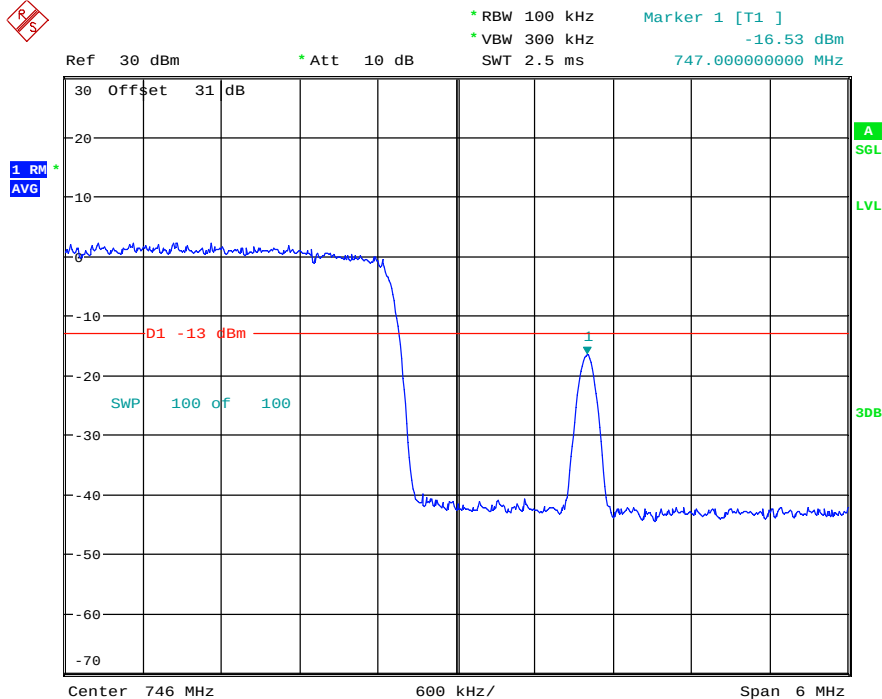


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:54:22

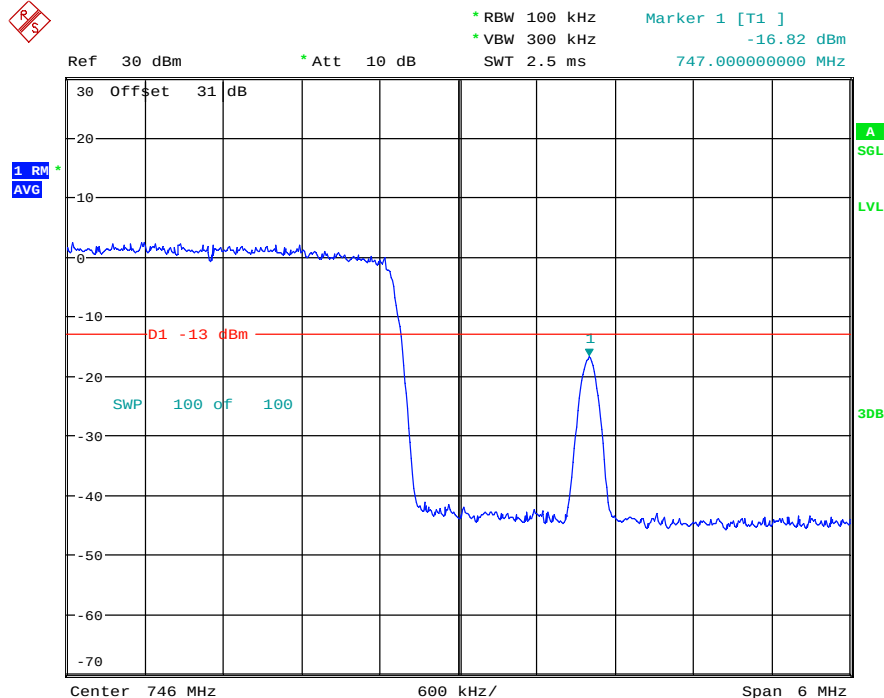


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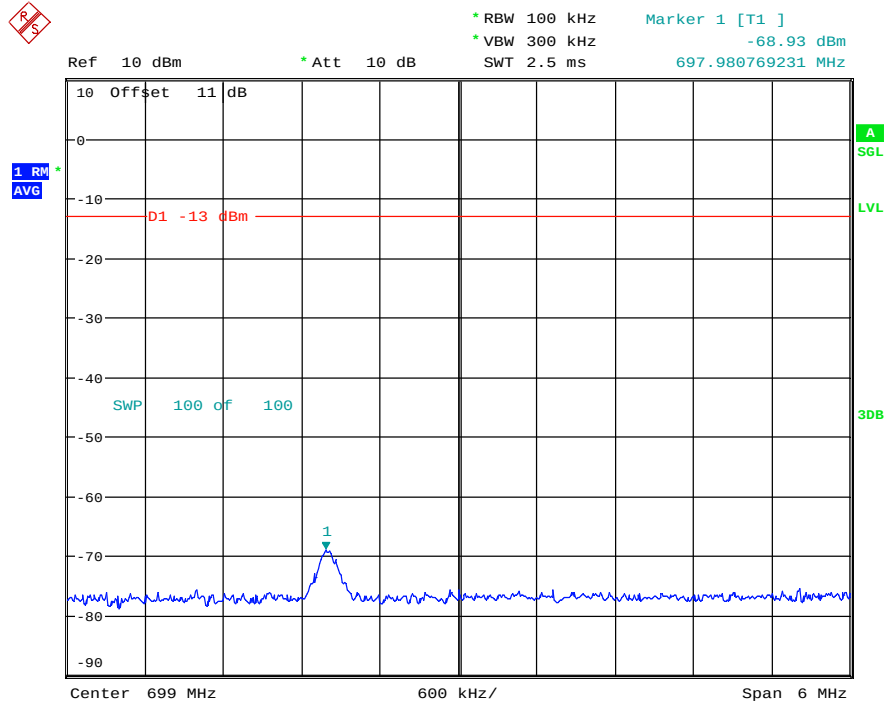


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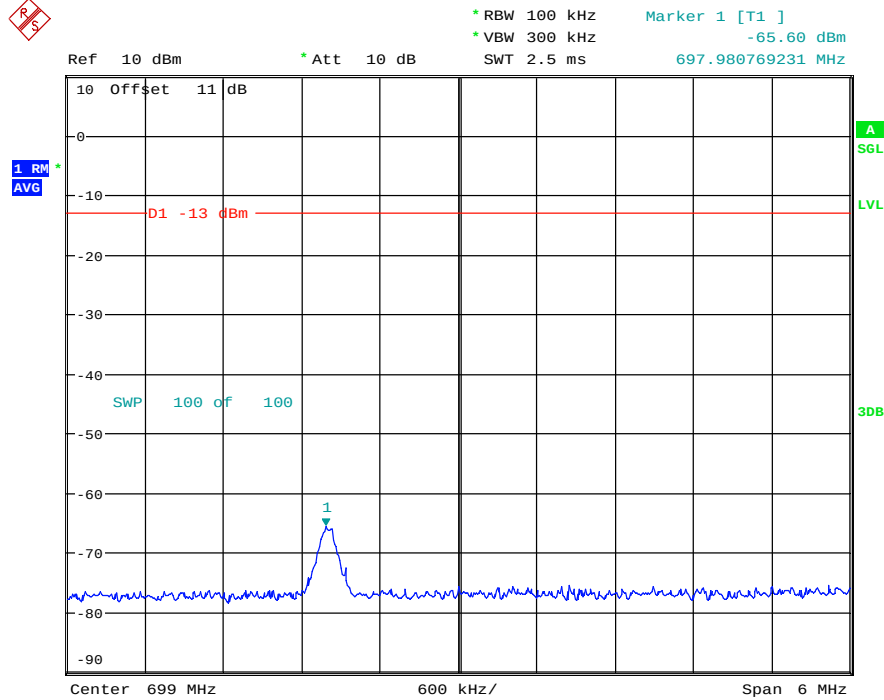


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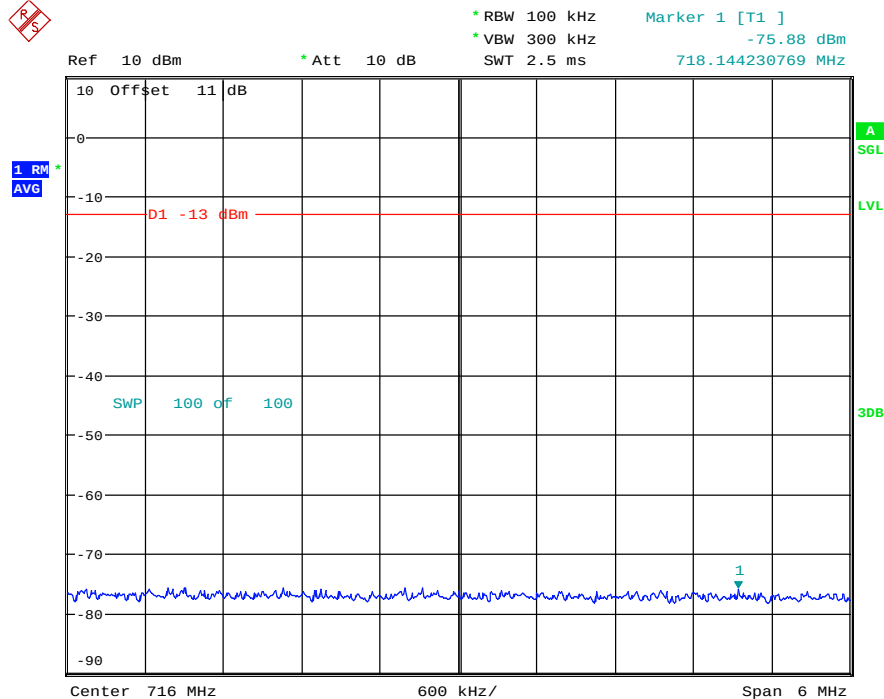


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:01:00

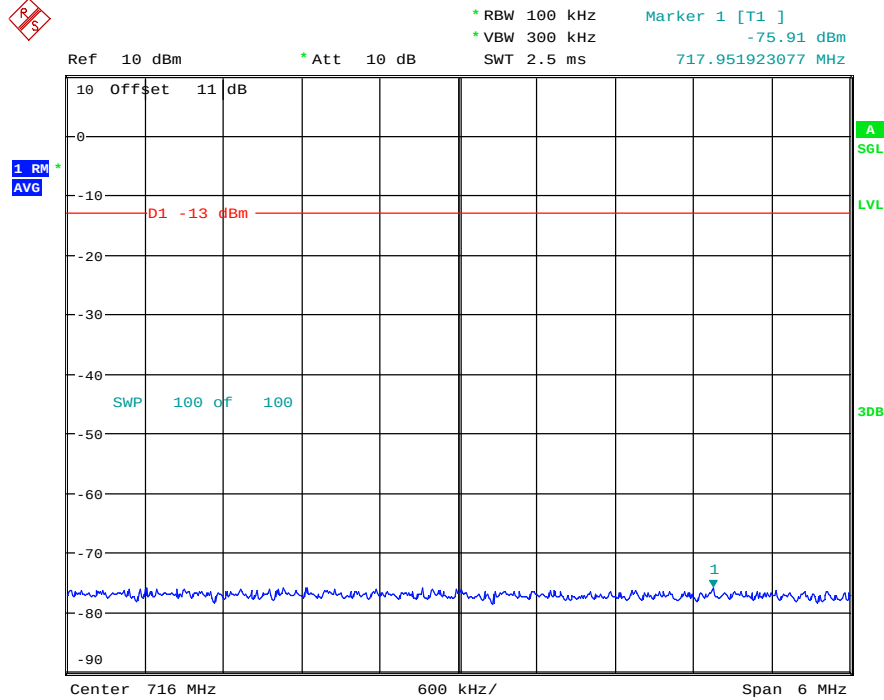


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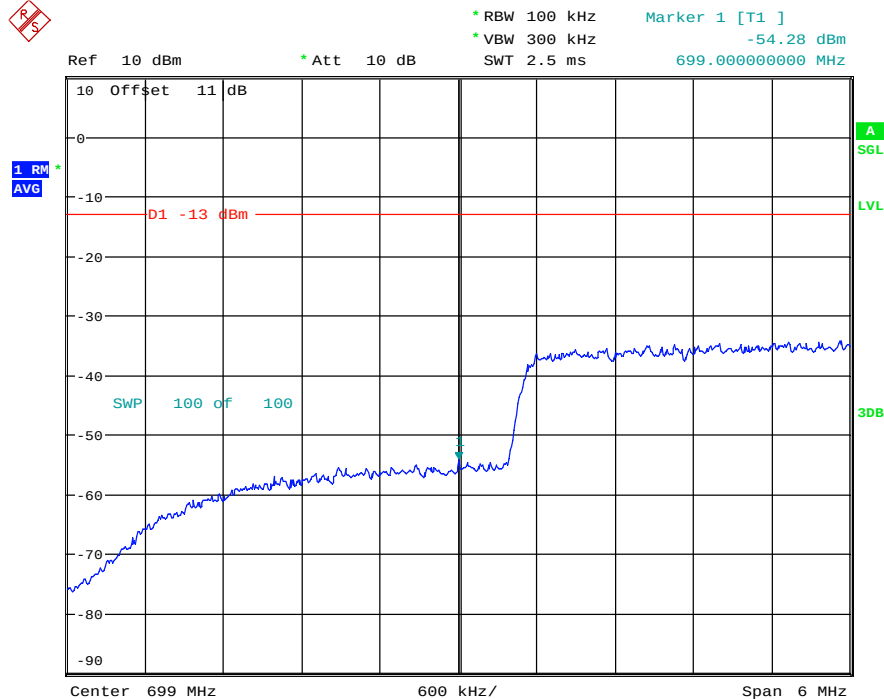


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:08:16

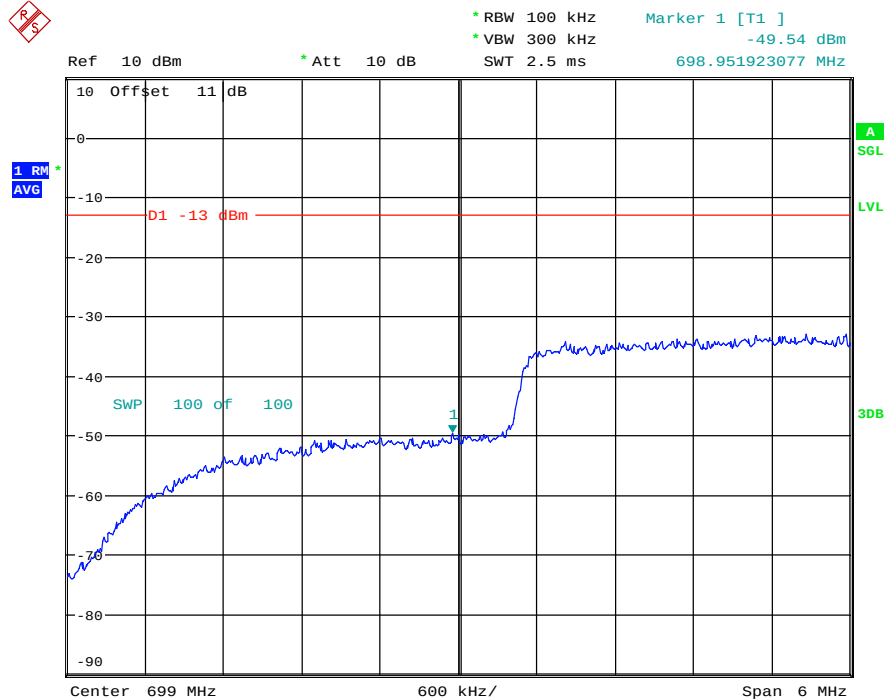


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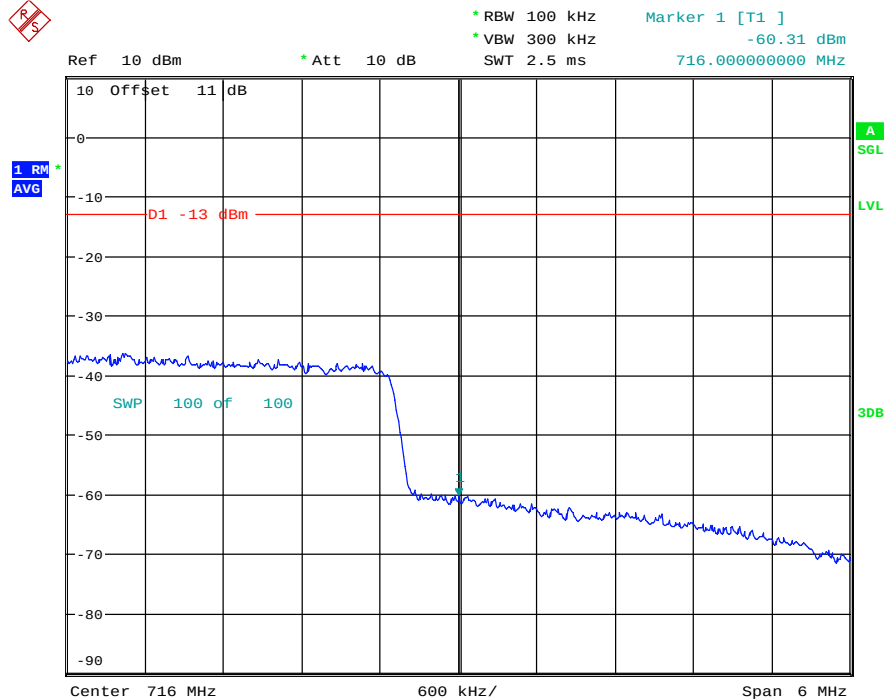


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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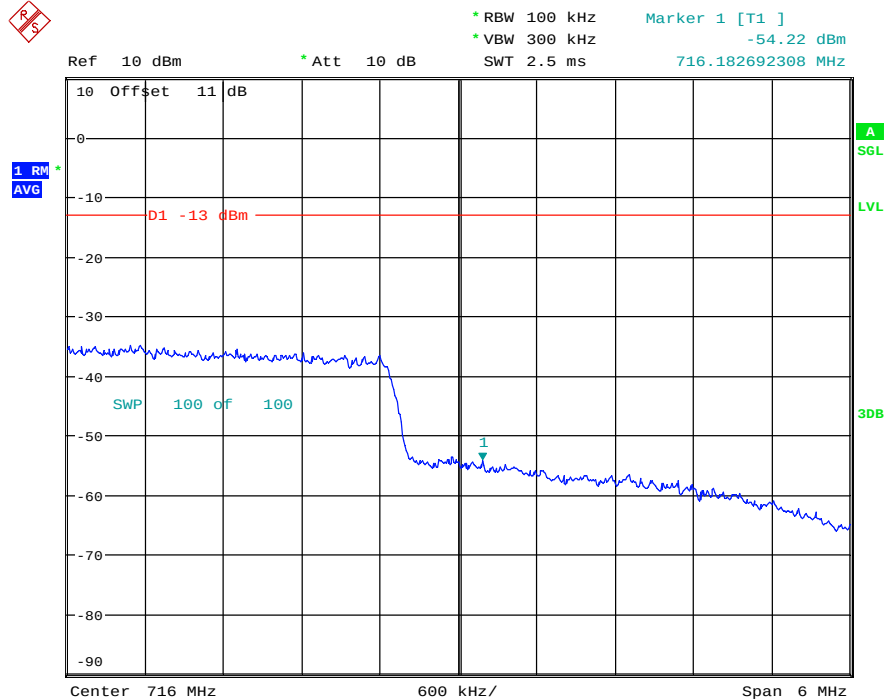


Date: 12.MAY.2025 11:07:21



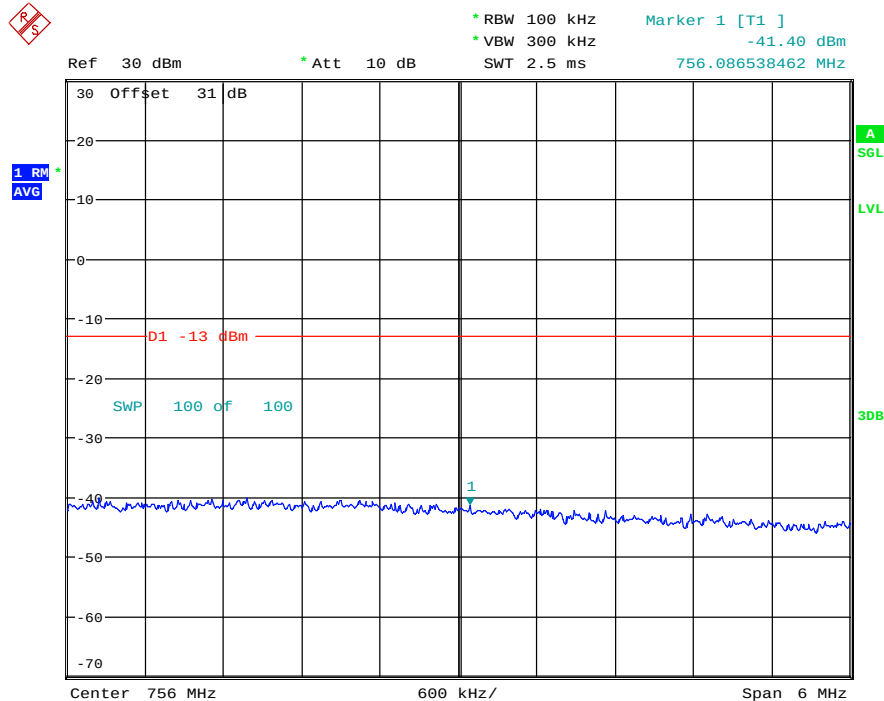
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:08:43

LTE Band 13

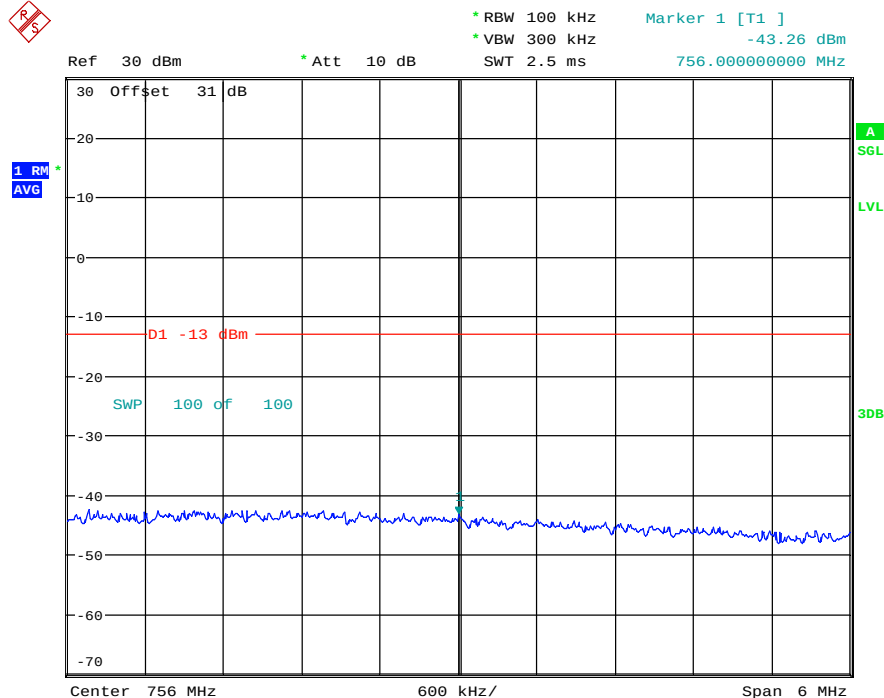


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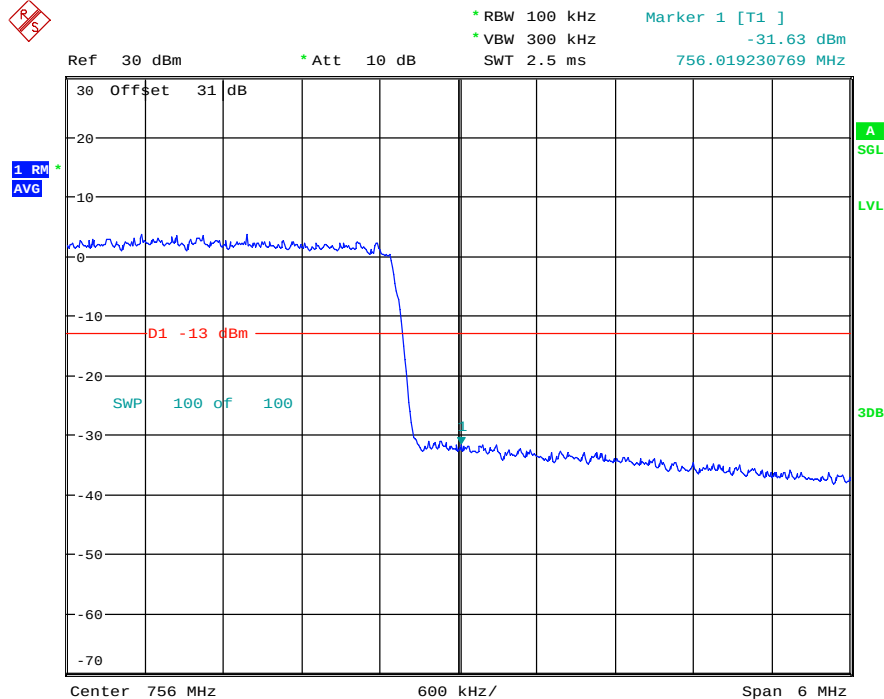


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 10.MAY.2025 17:53:43

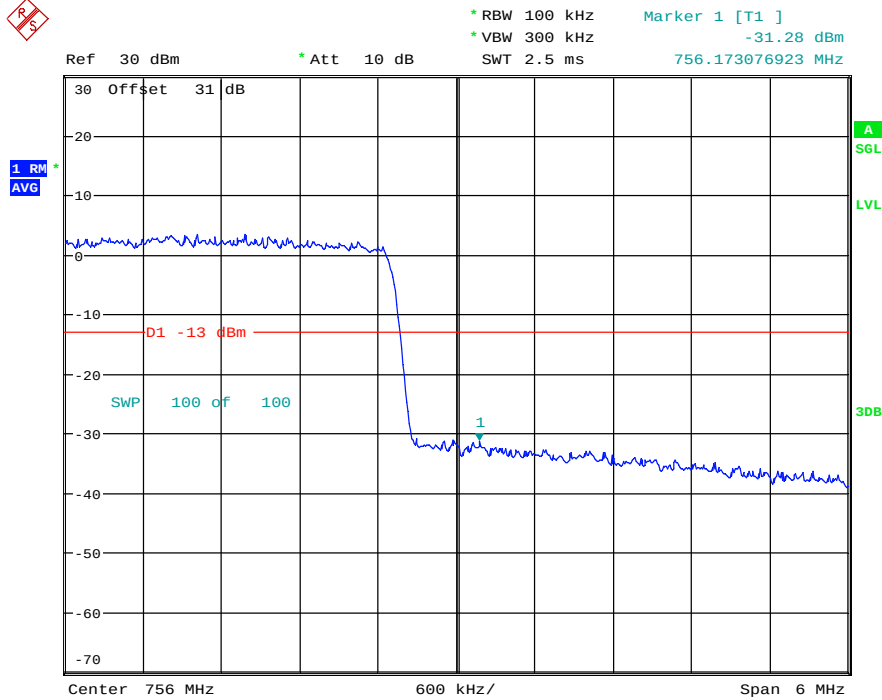


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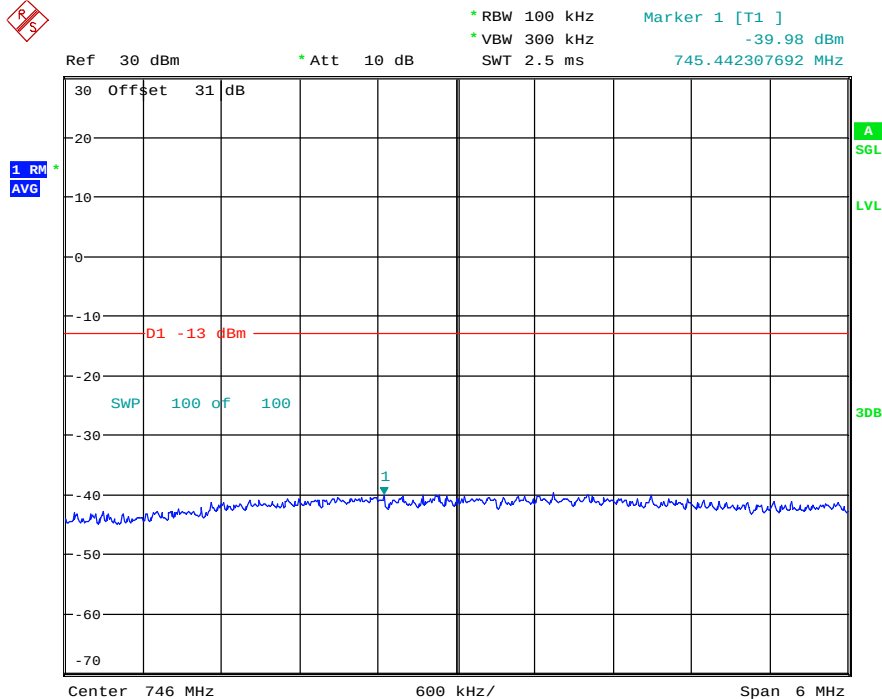


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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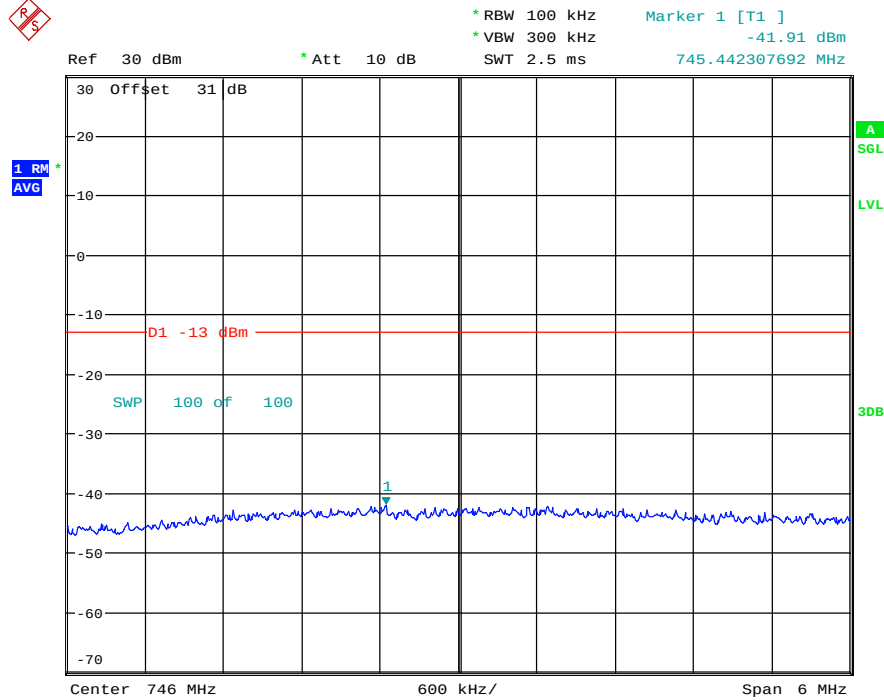


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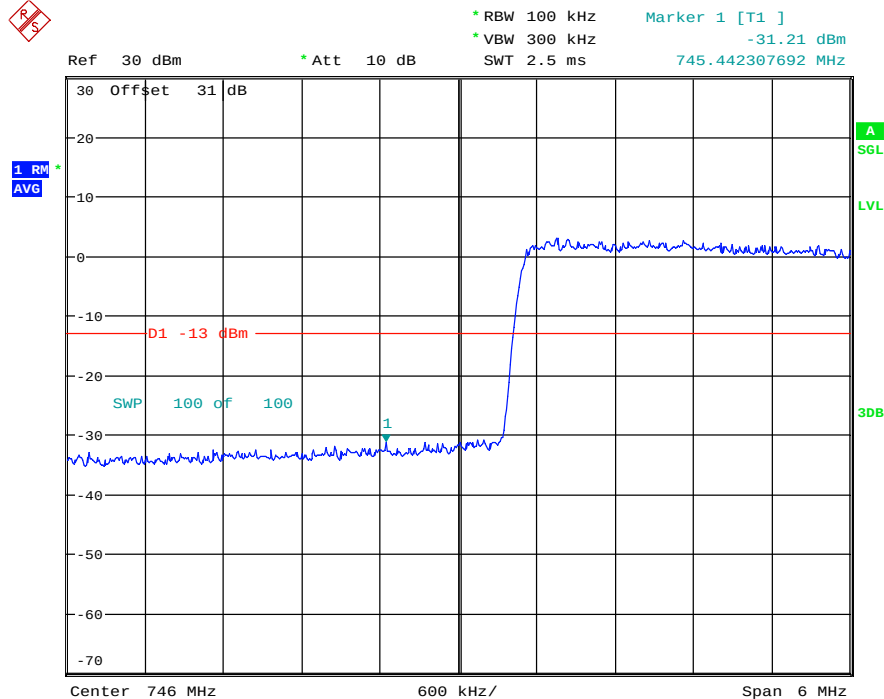


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 10.MAY.2025 17:53:14

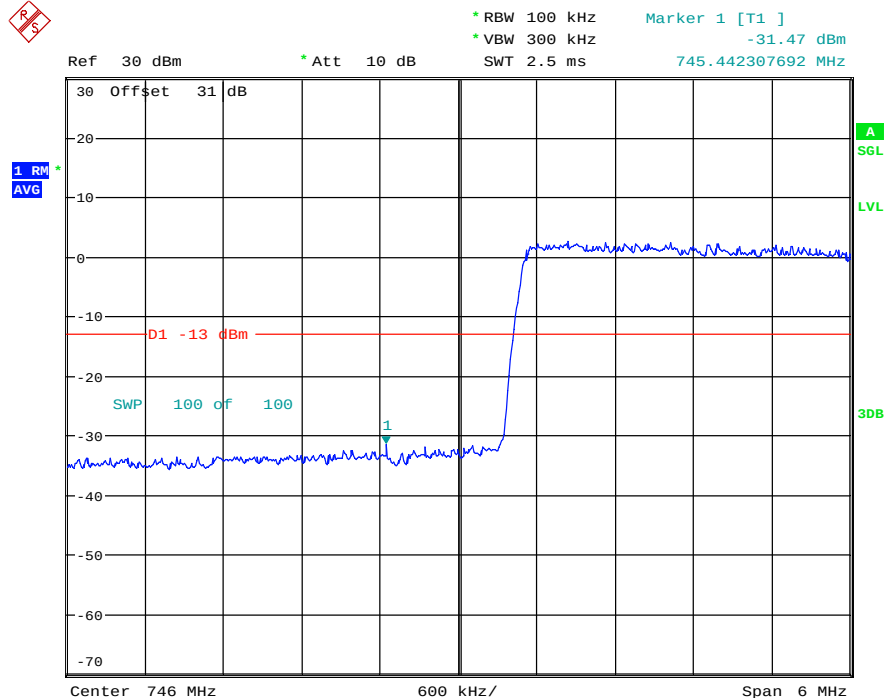


Date: 10.MAY.2025 17:50:51

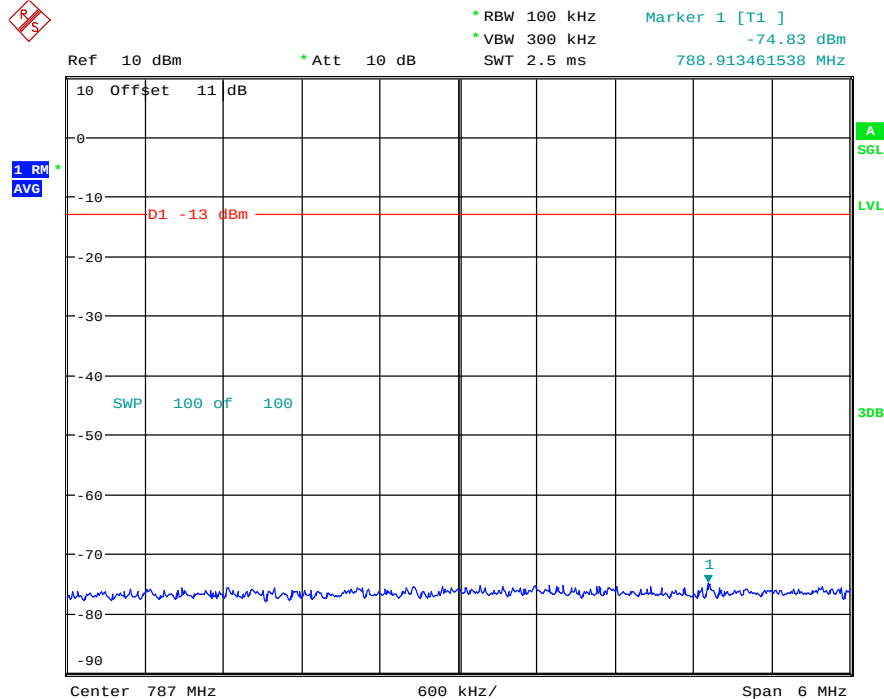


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 10.MAY.2025 17:54:29

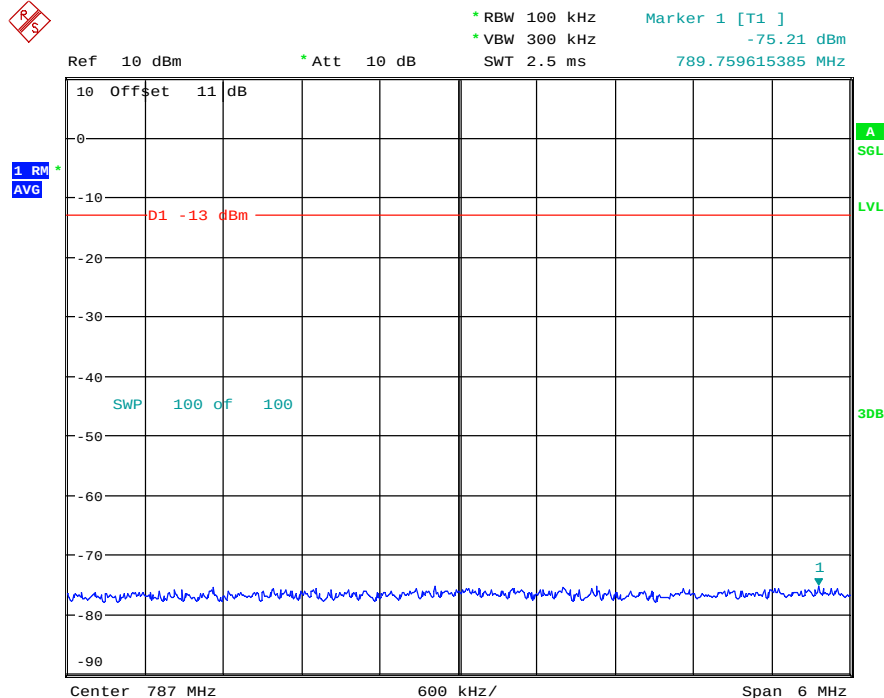


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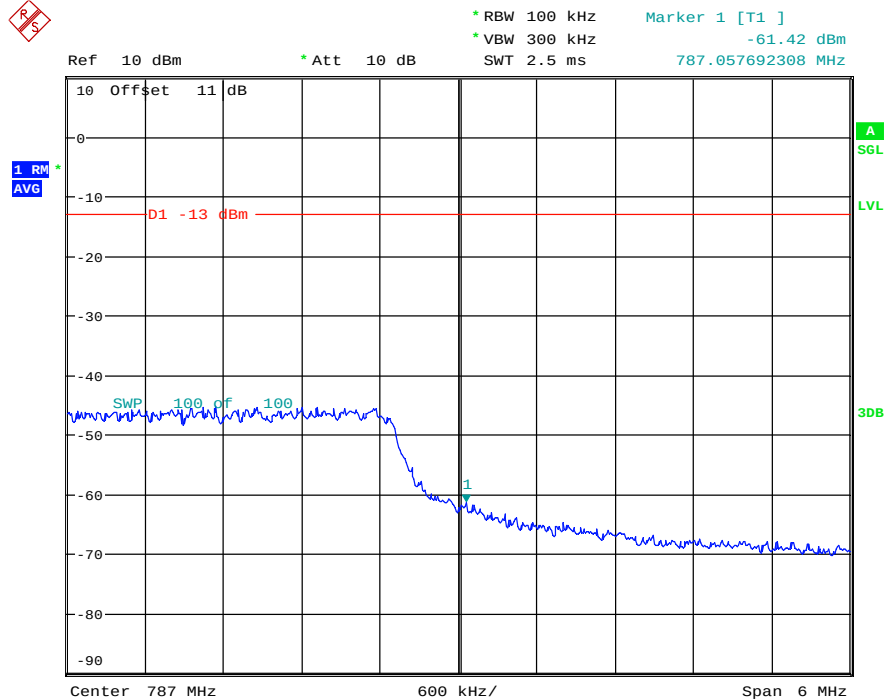


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:28:34

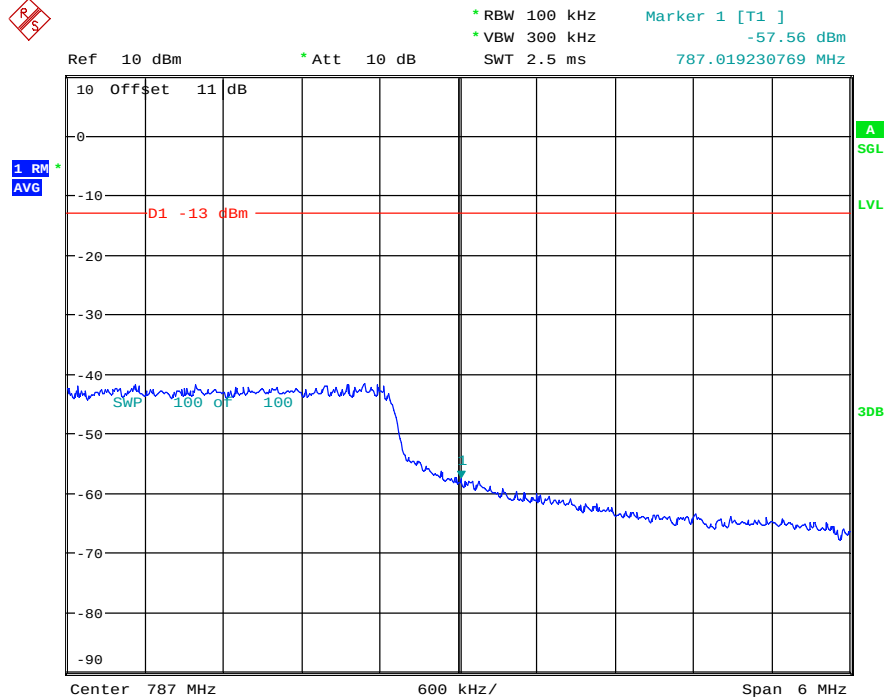


Date: 12.MAY.2025 11:26:06

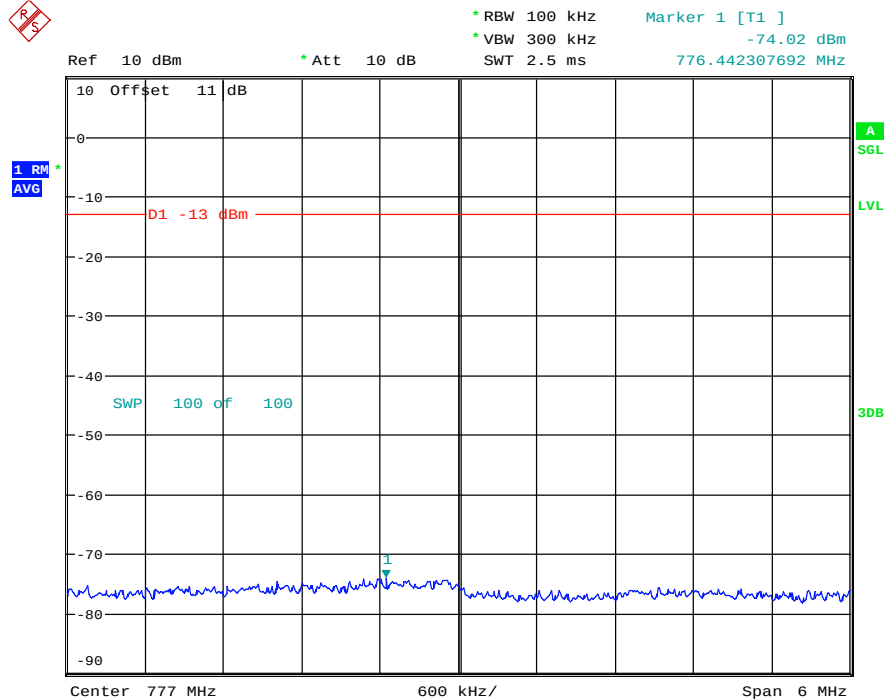


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:30:04

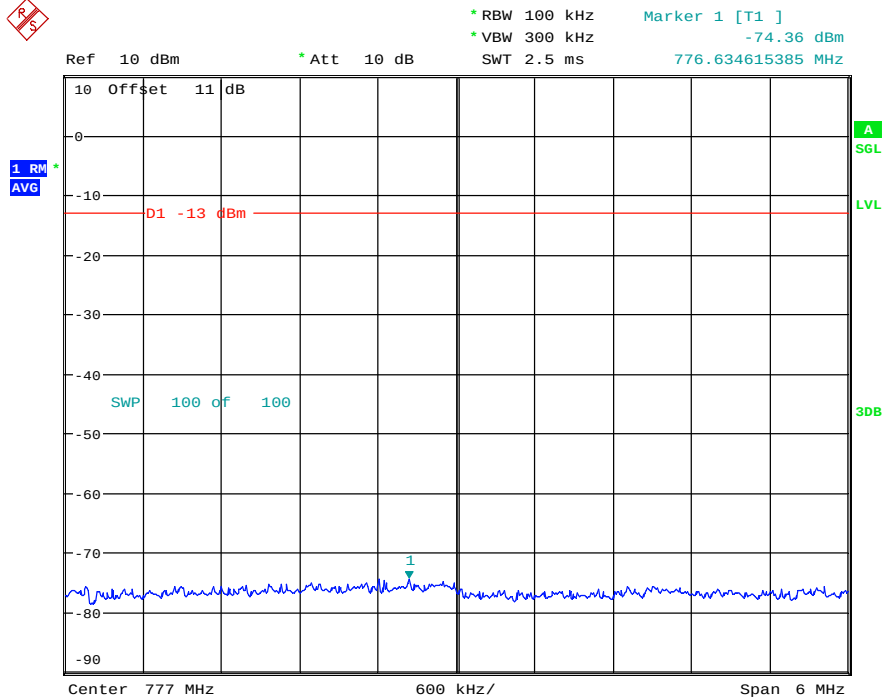


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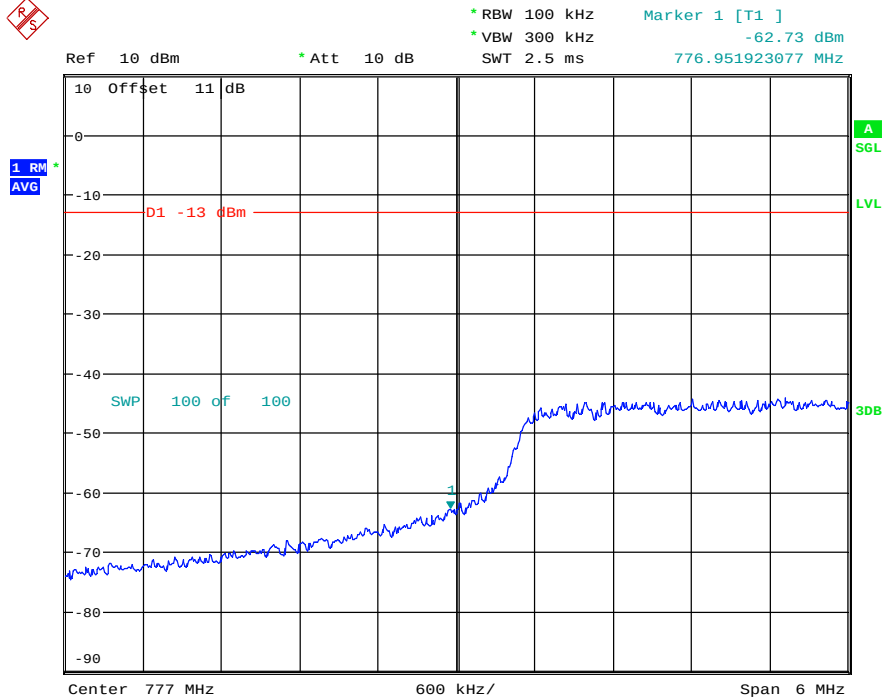


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FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:29:02

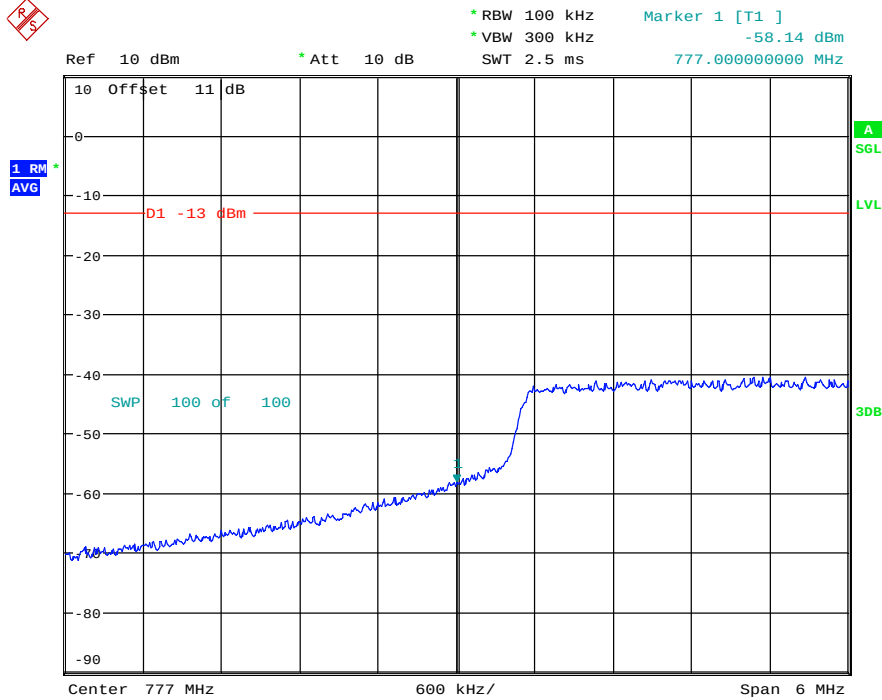


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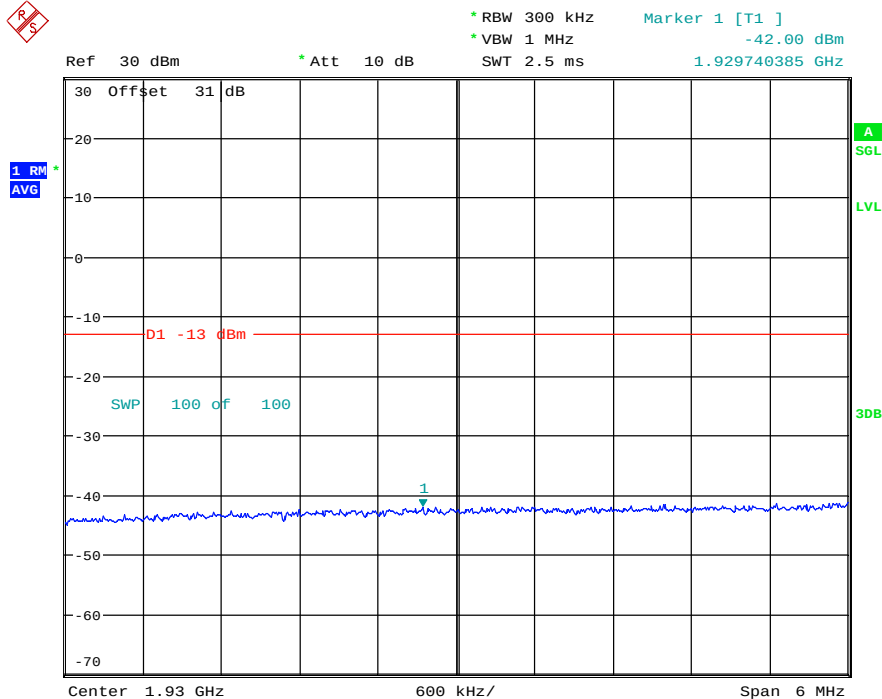
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:29:33

LTE Band 25

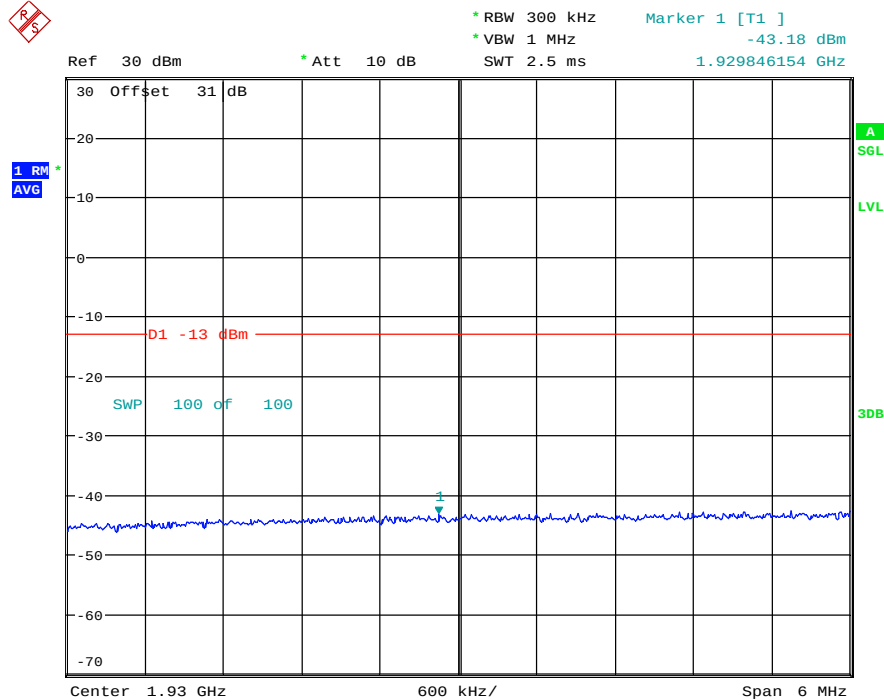


Date: 12.MAY.2025 08:29:09

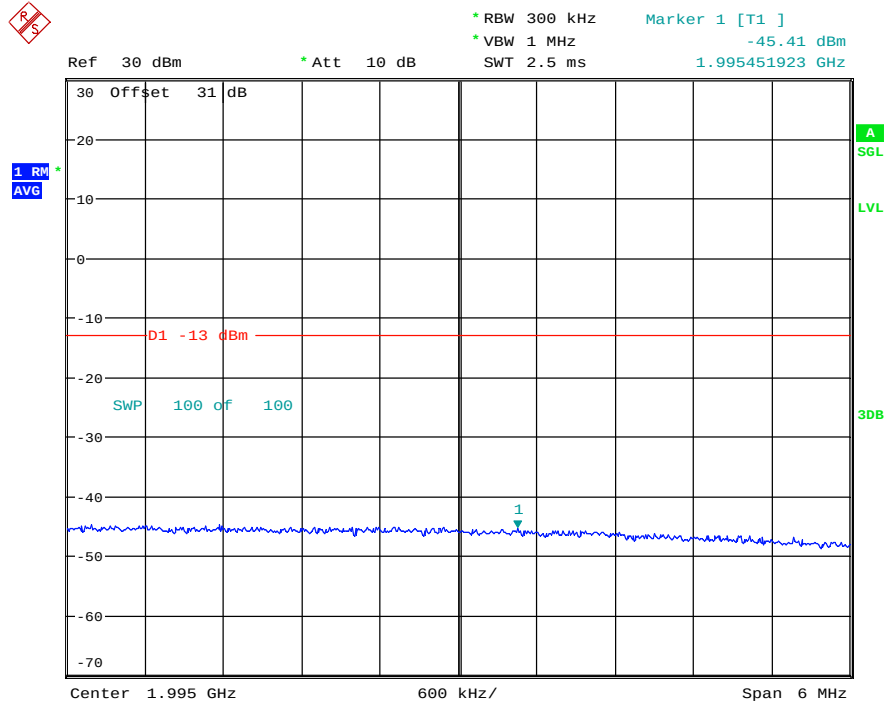


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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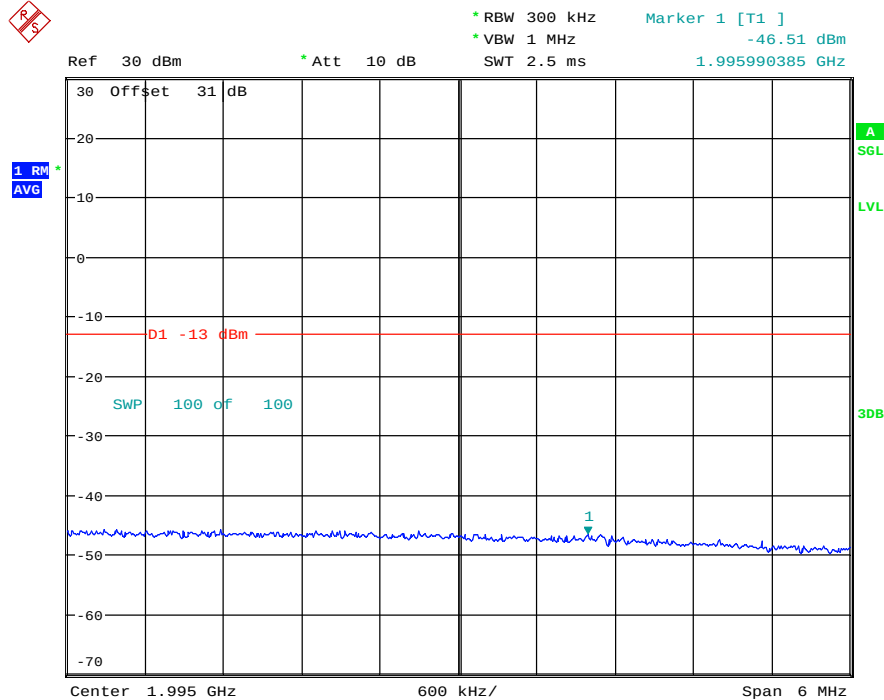


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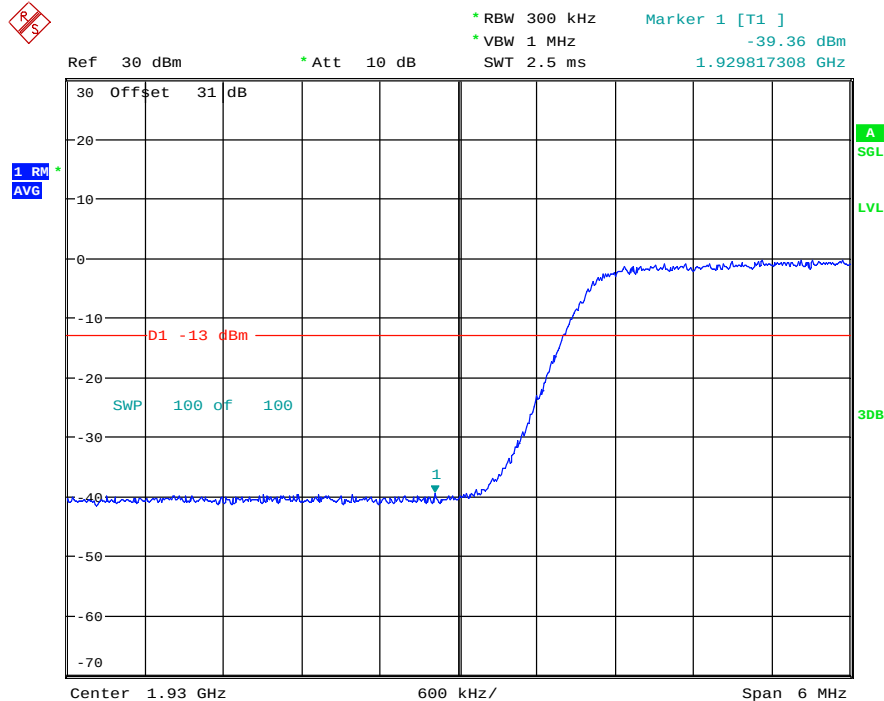


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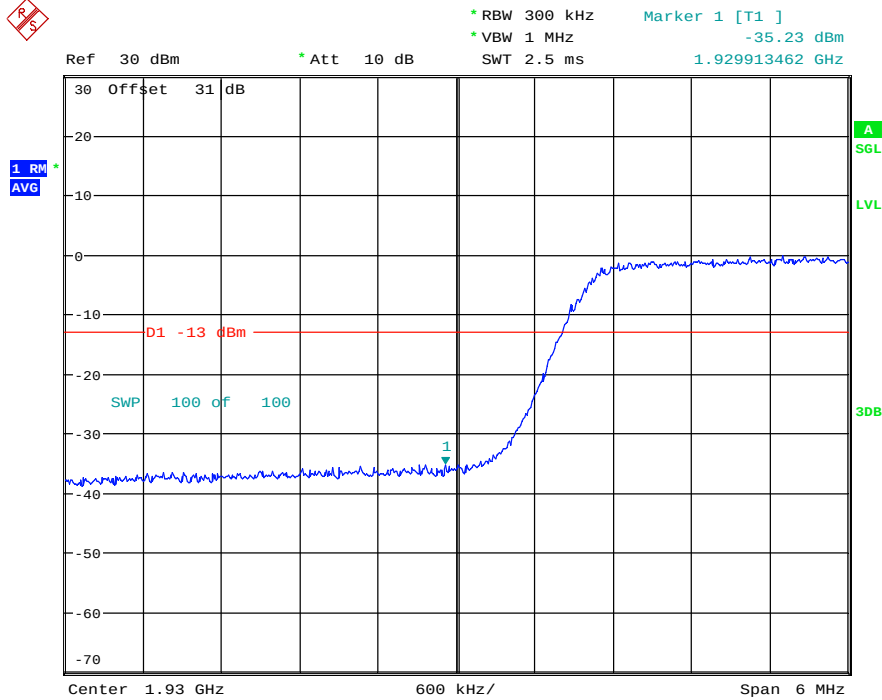


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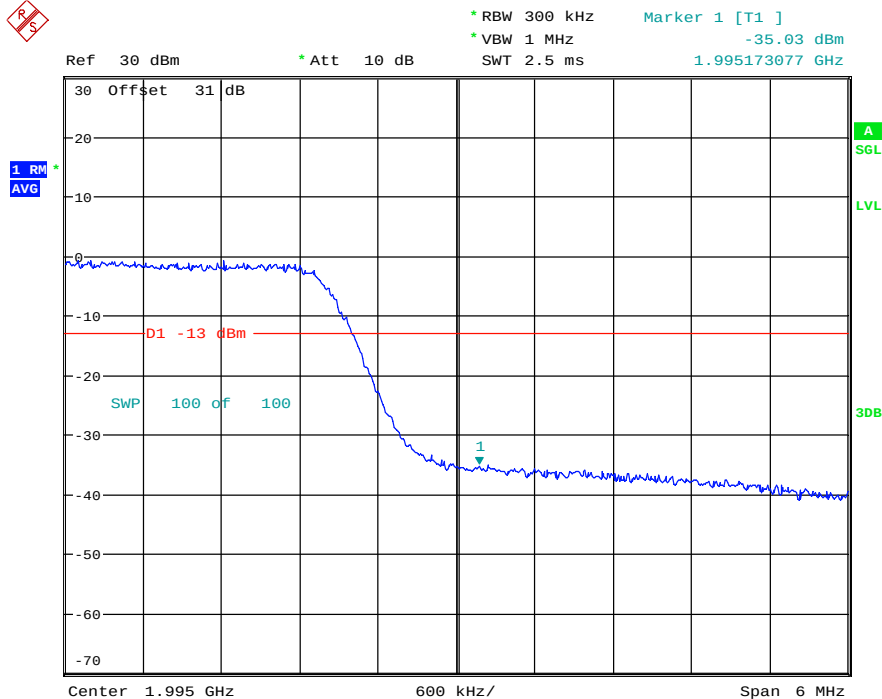


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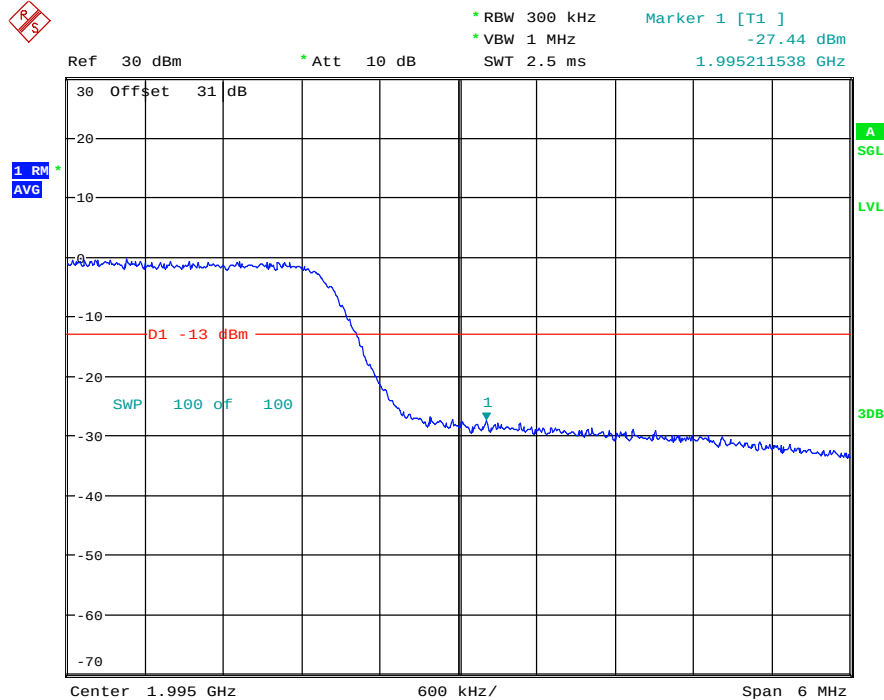


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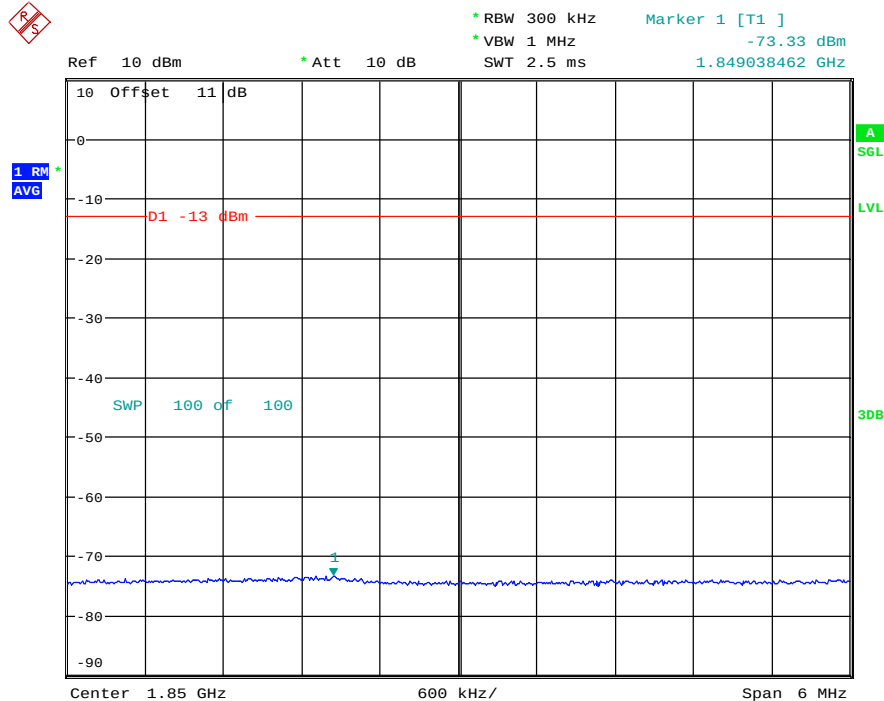


Report Number: W6M22504-24316-P-20

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Date: 12.MAY.2025 09:05:50

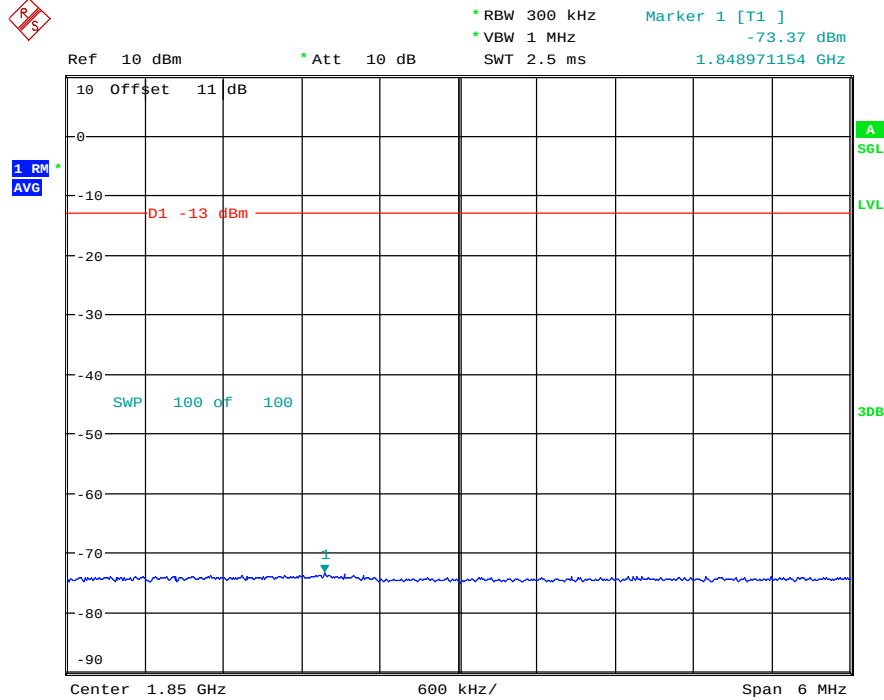


Date: 12.MAY.2025 13:15:51

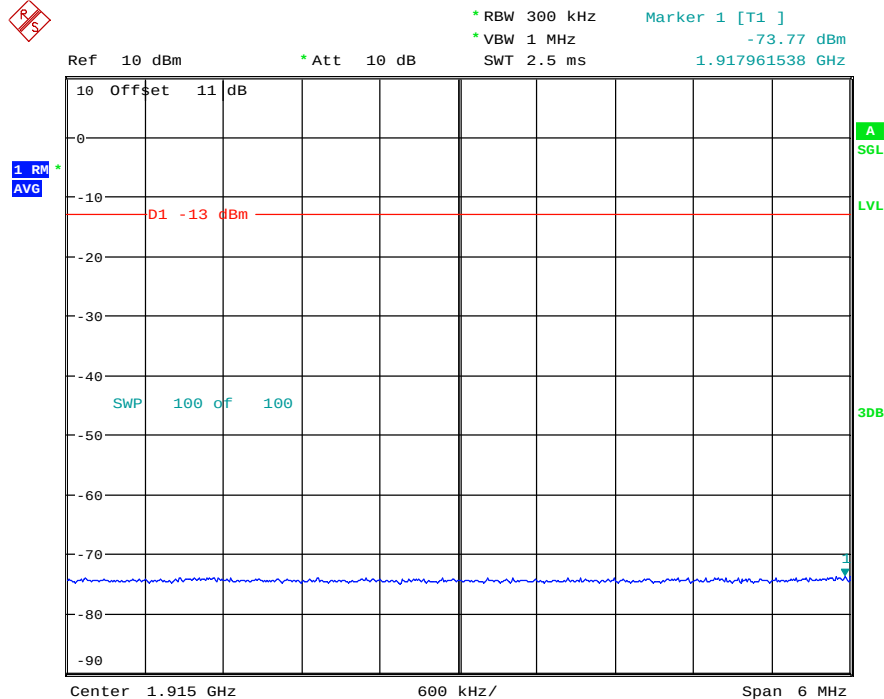


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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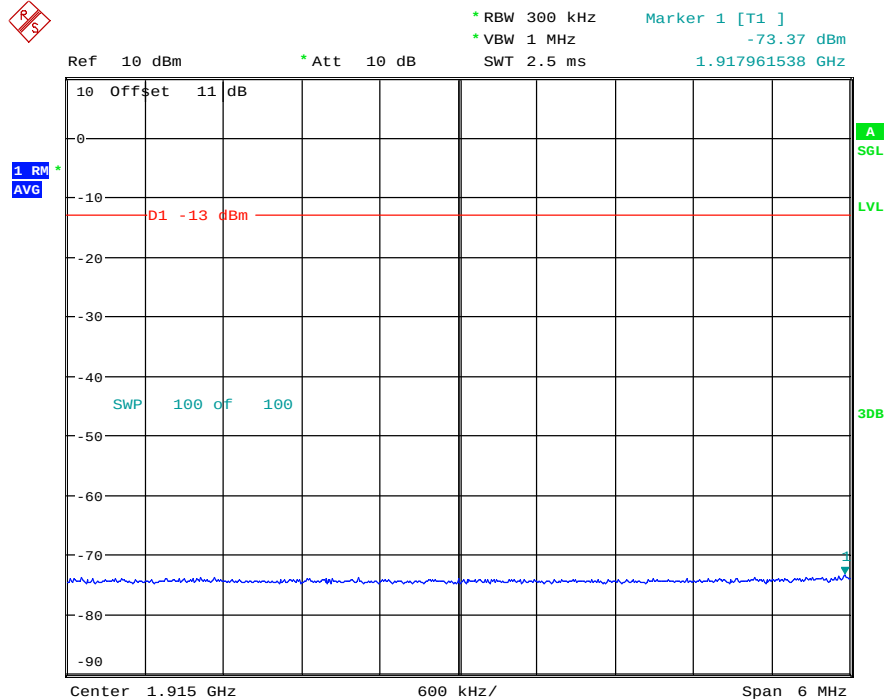


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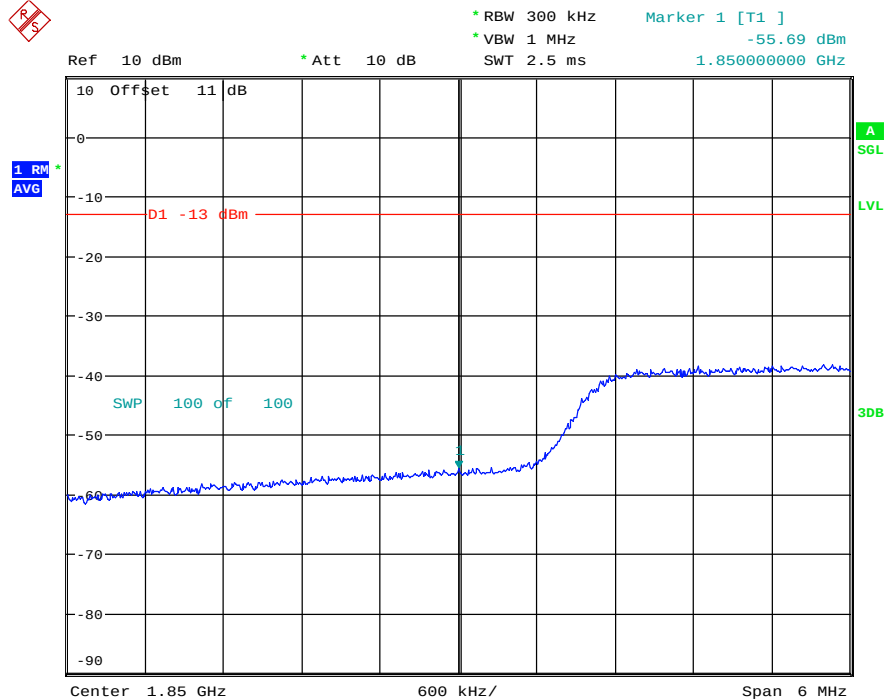


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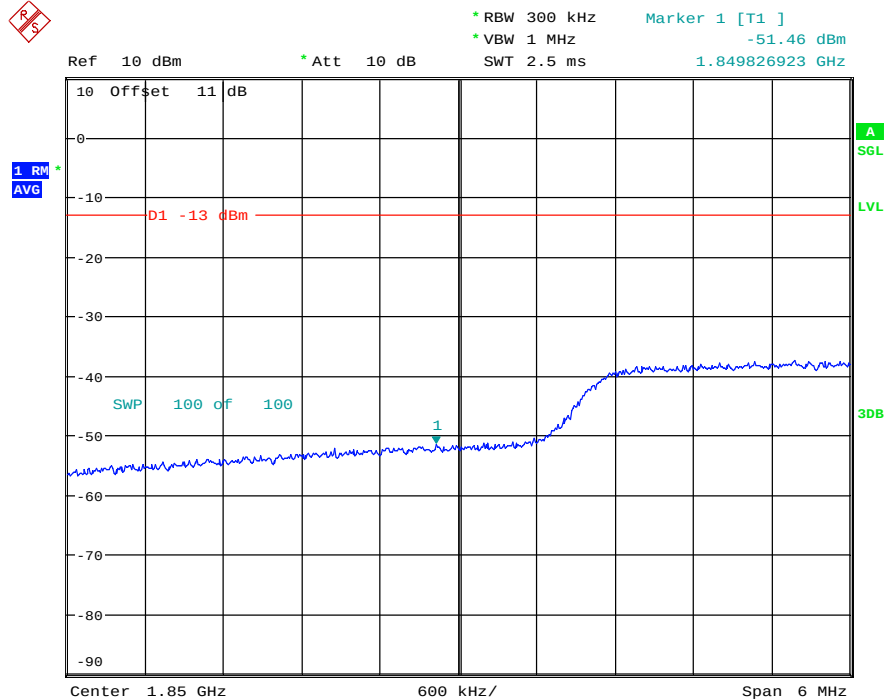


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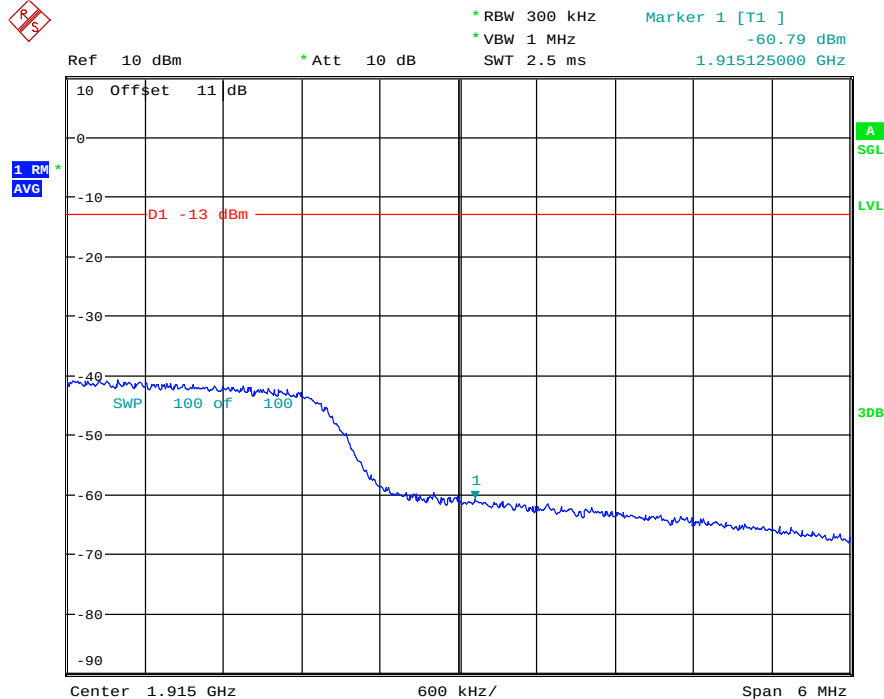


Report Number: W6M22504-24316-P-20

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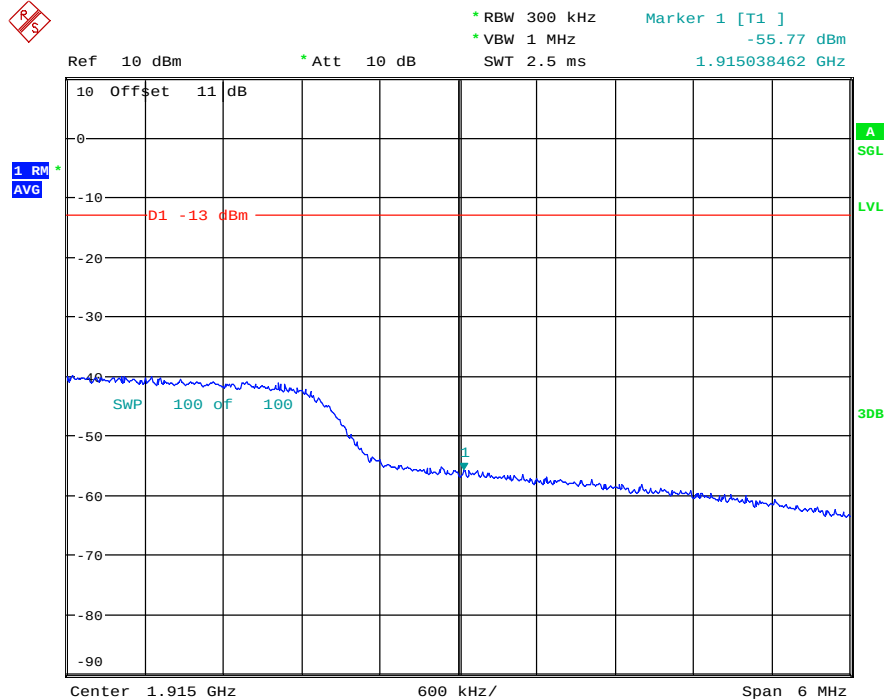


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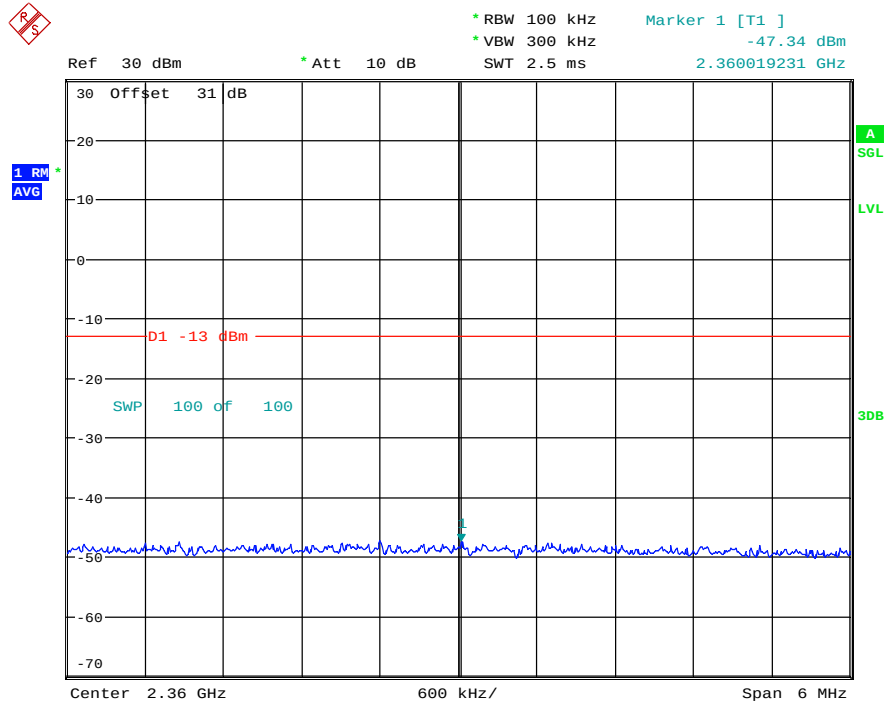
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 13:28:34

LTE Band 30

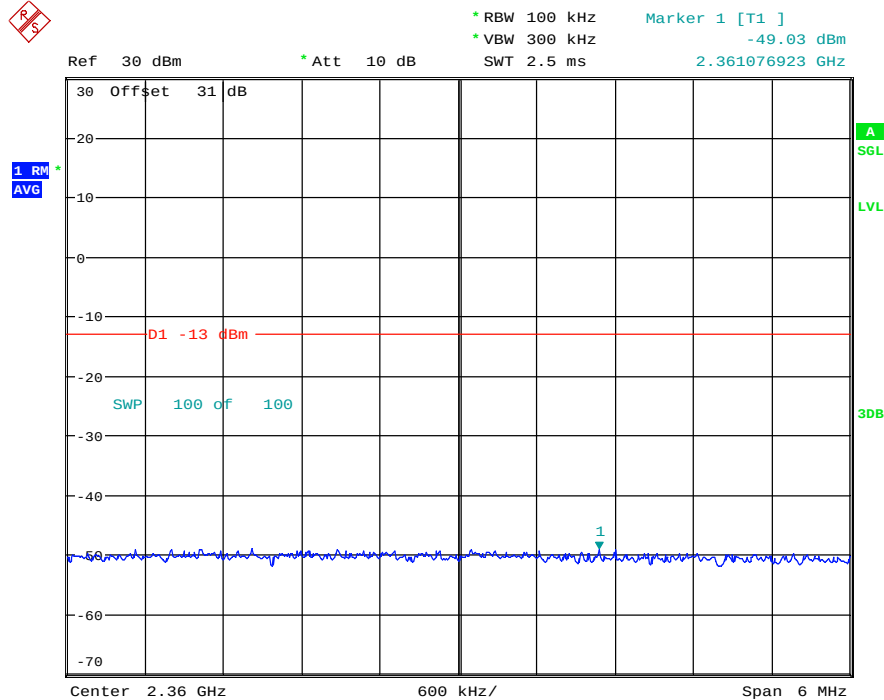


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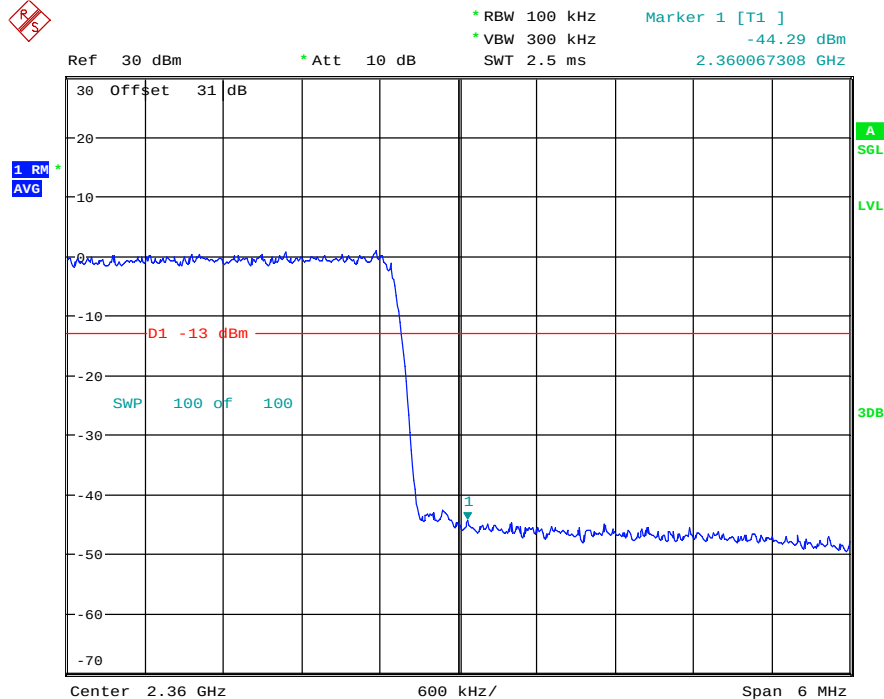


Report Number: W6M22504-24316-P-20

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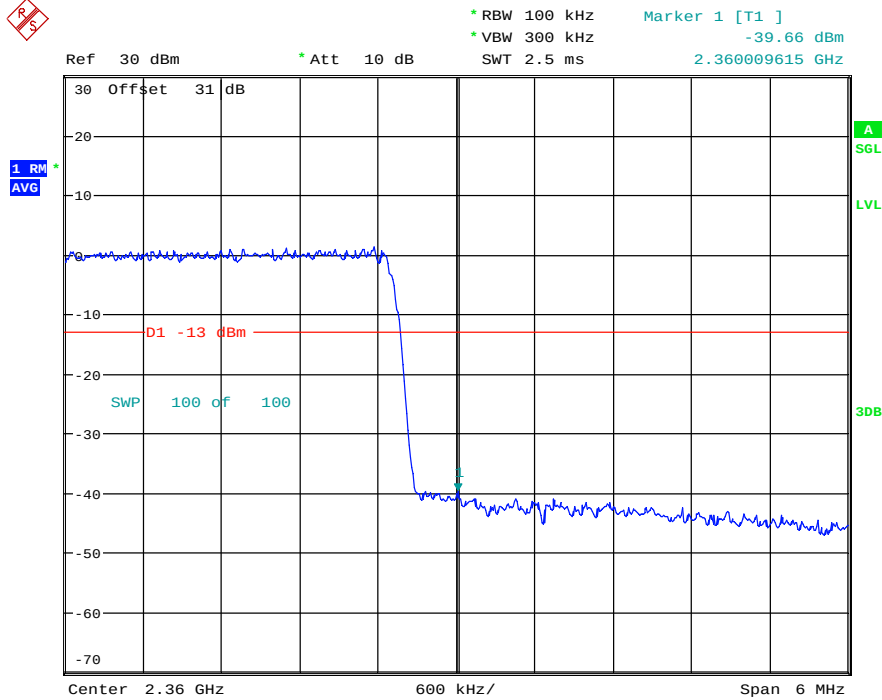
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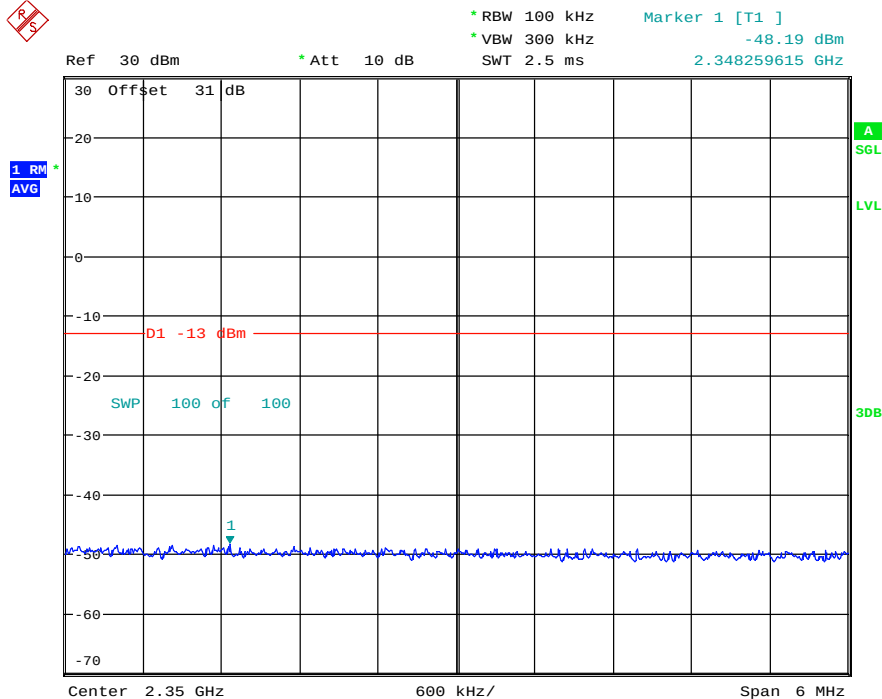
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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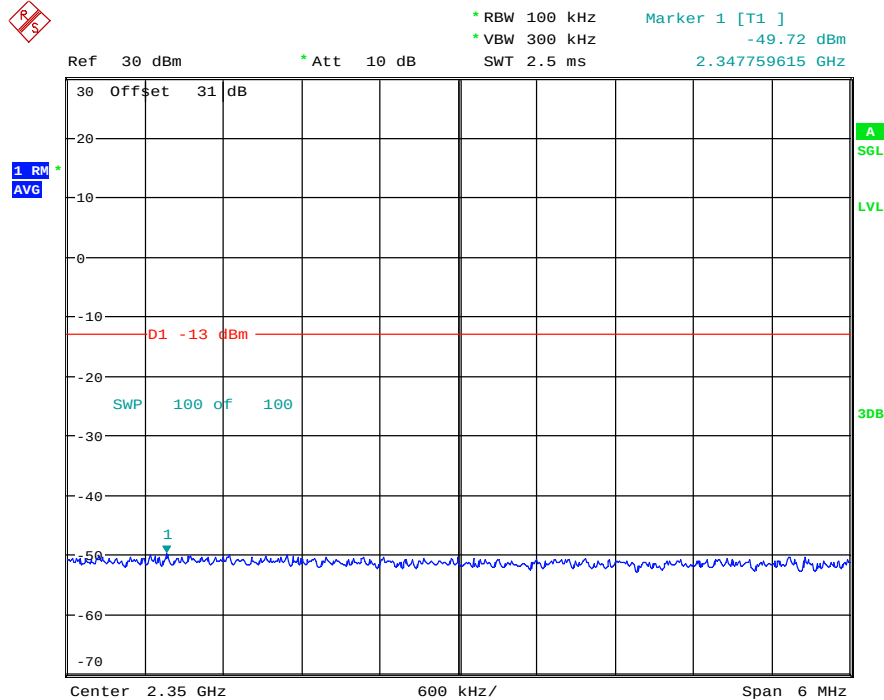


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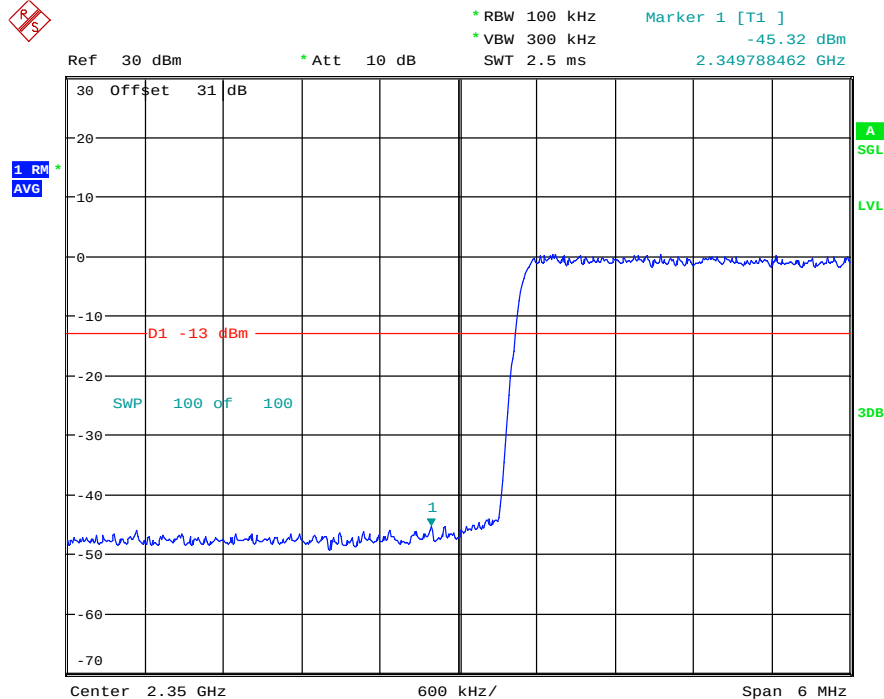


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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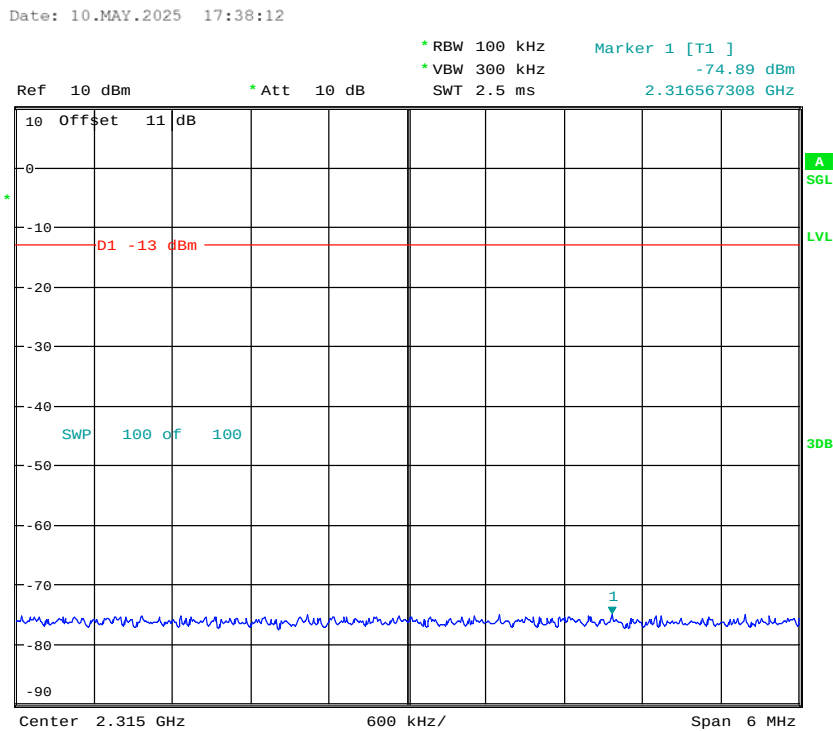
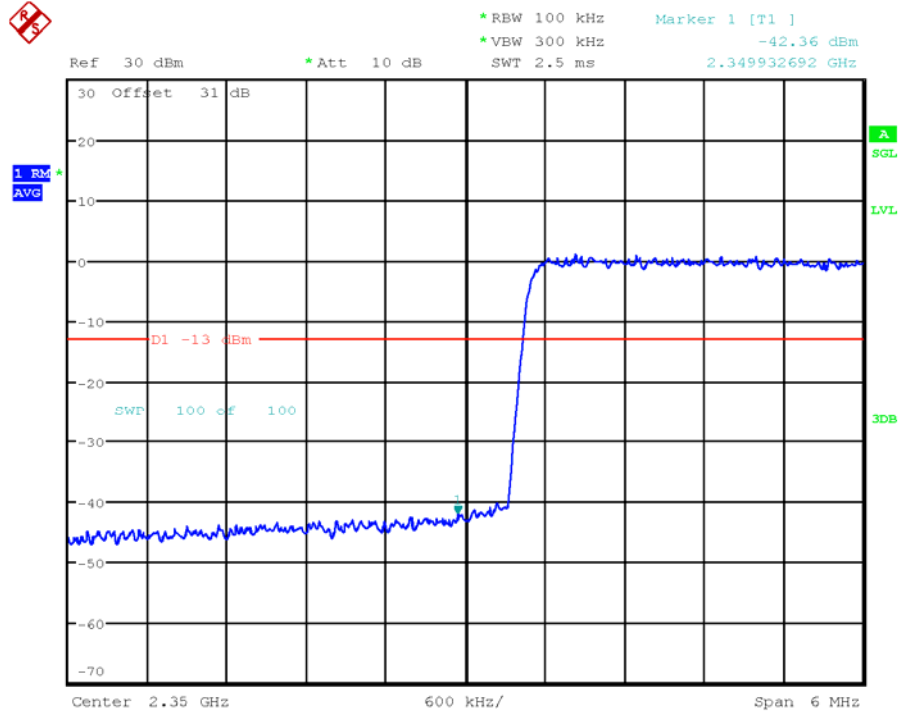


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Report Number: W6M22504-24316-P-20

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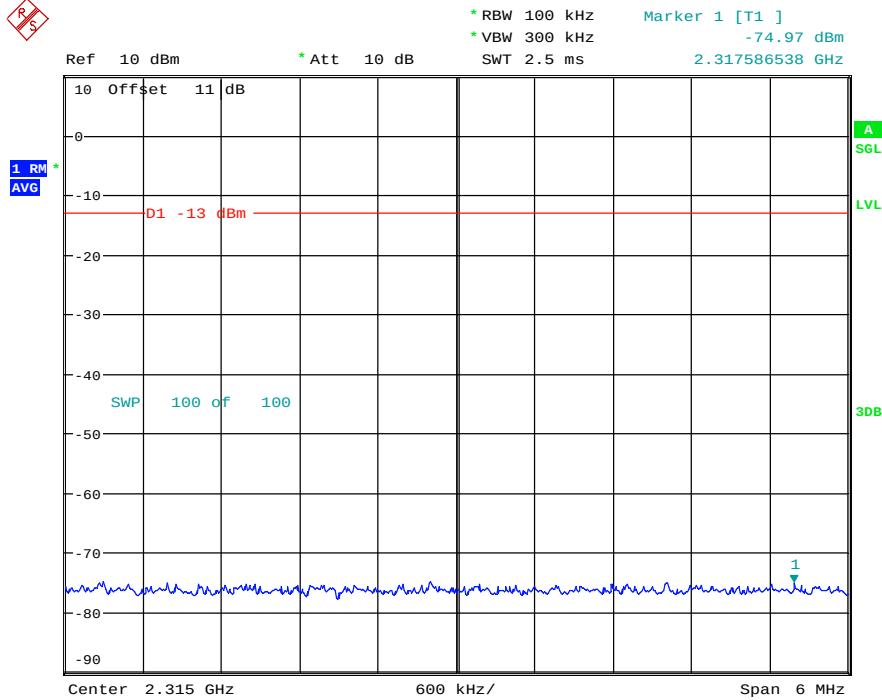


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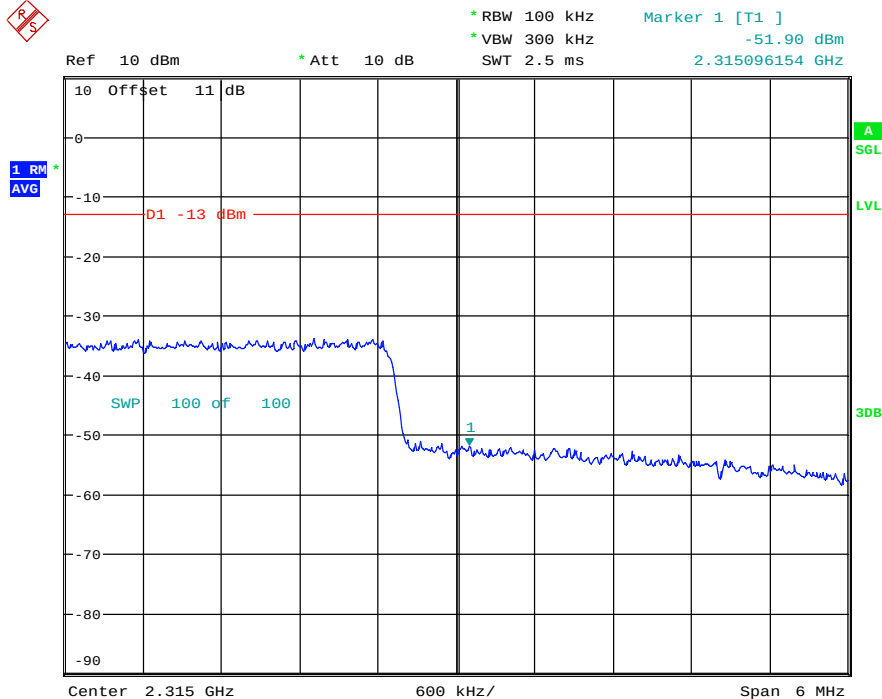


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



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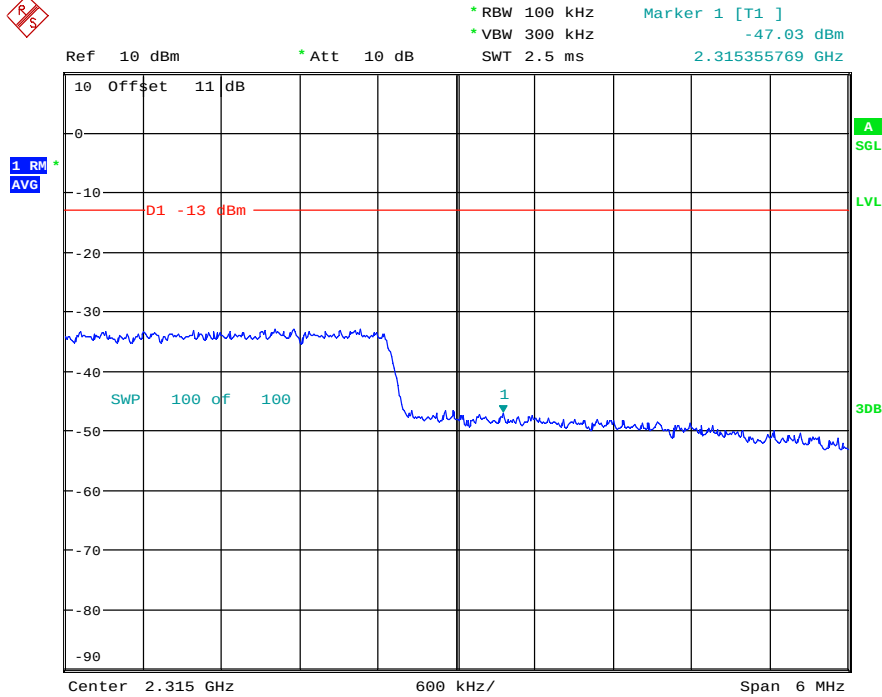


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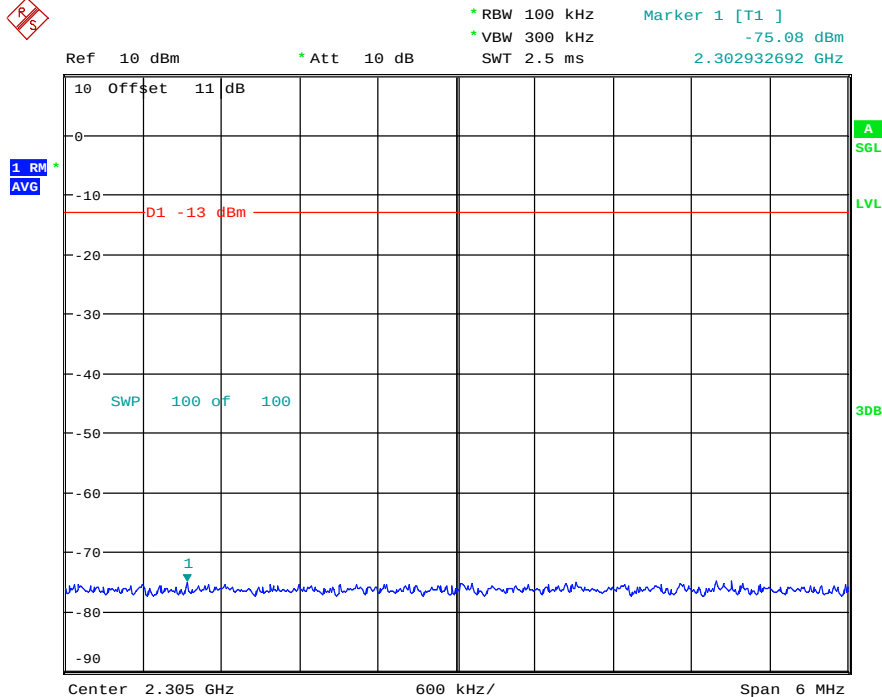


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:47:06

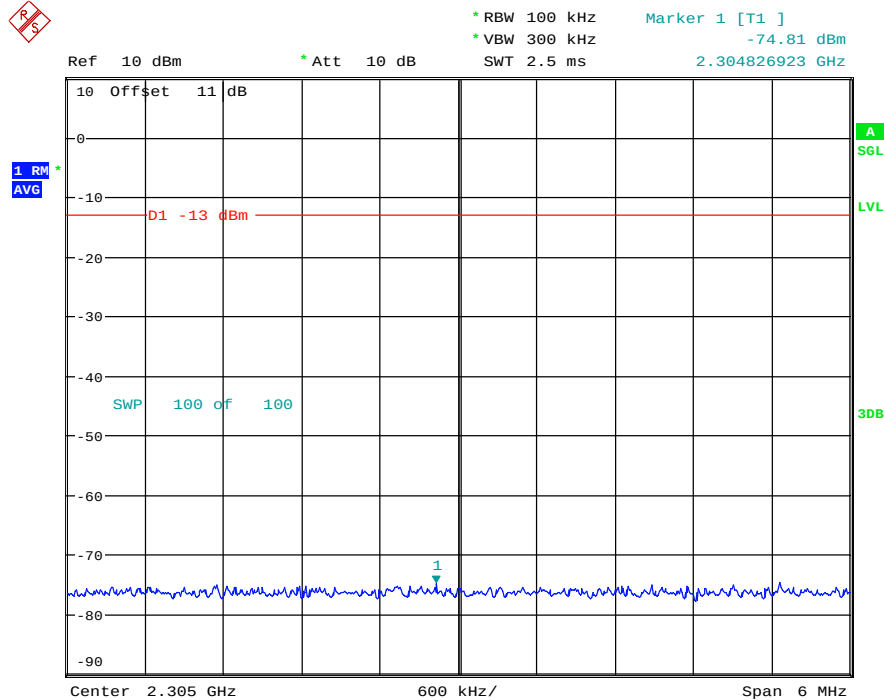


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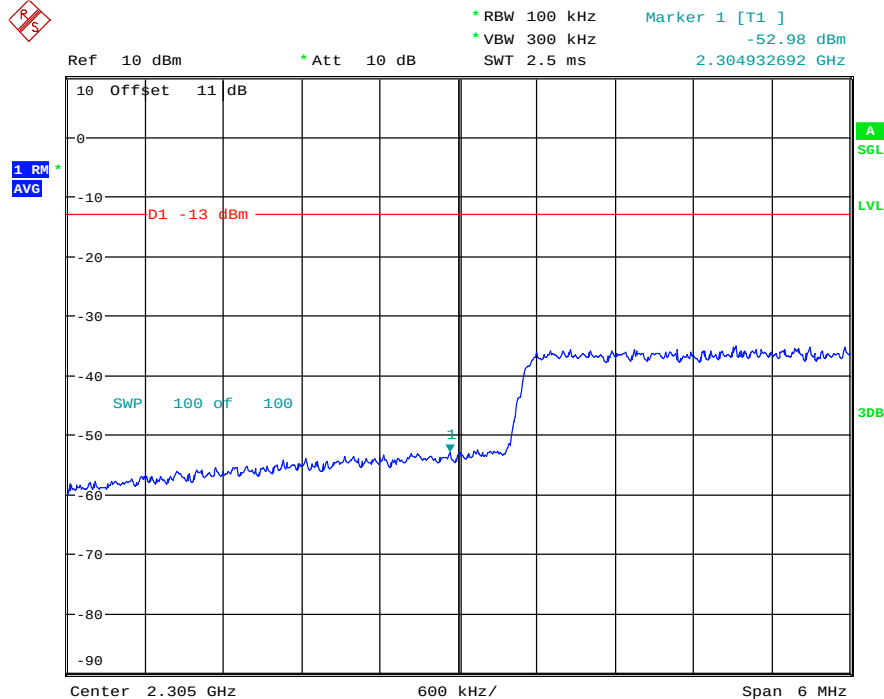


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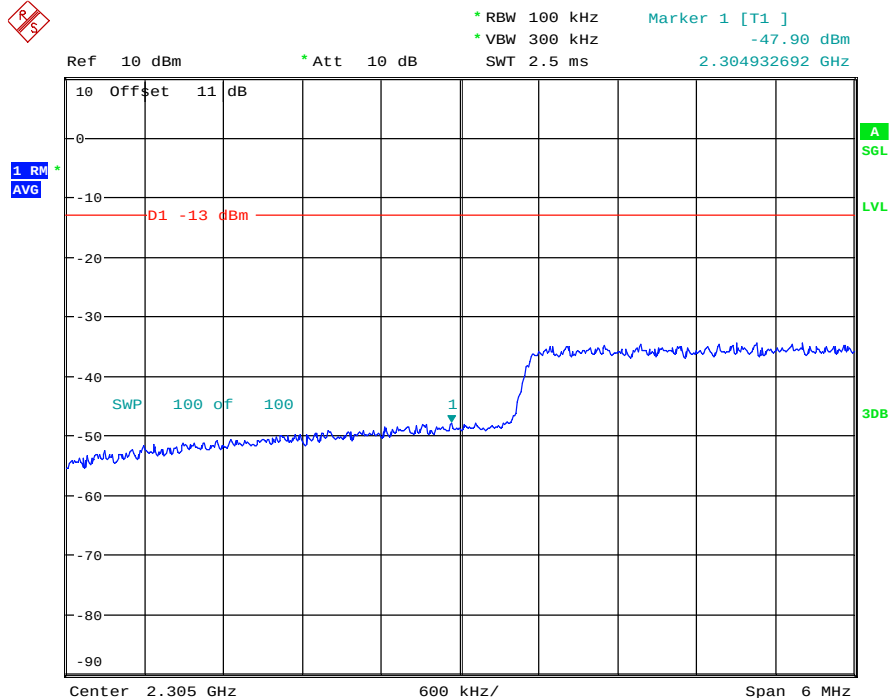


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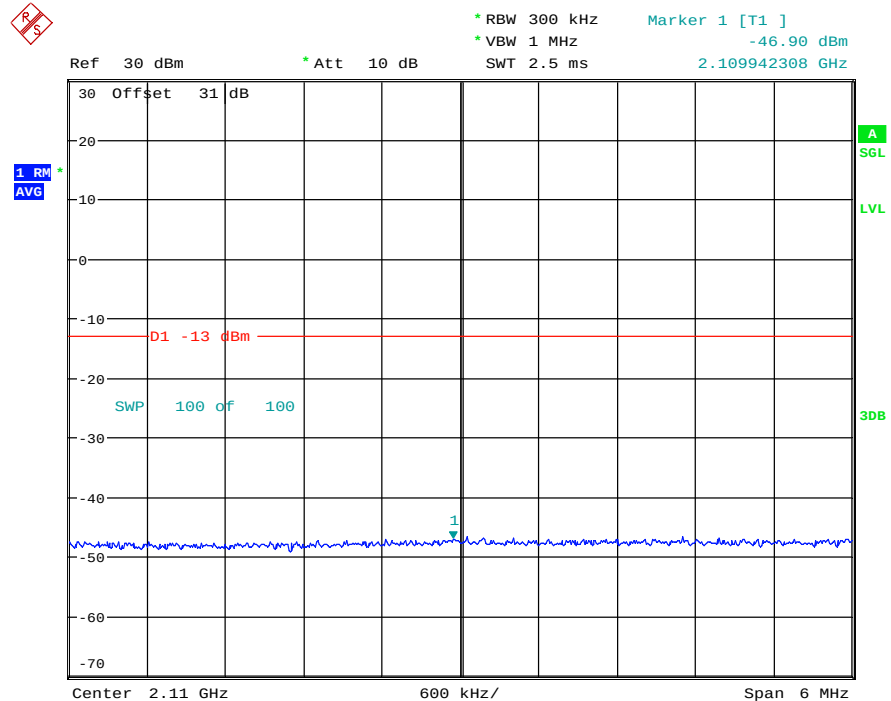
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 11:47:32

LTE Band 66

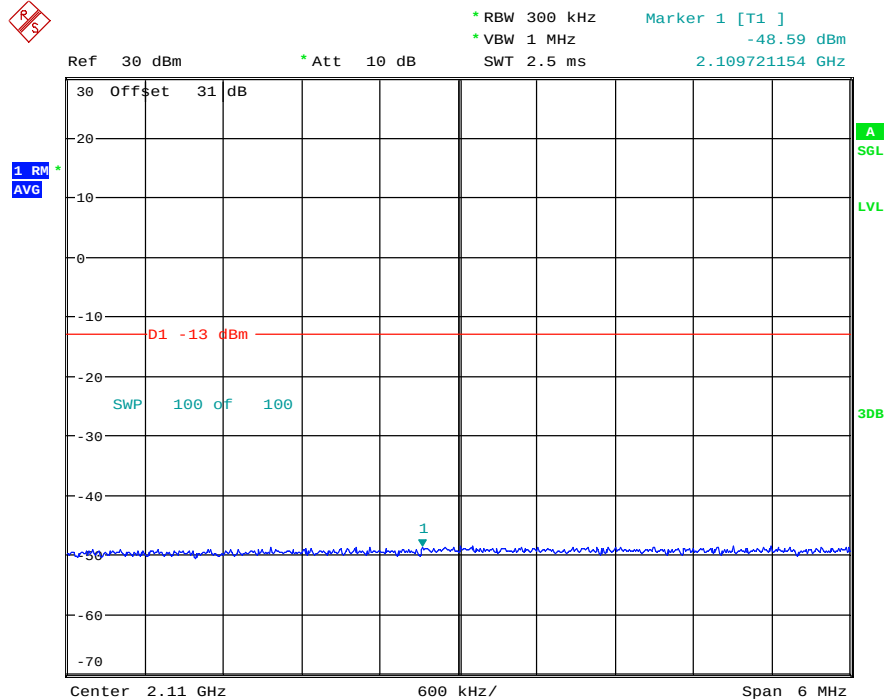


Date: 12.MAY.2025 09:16:51

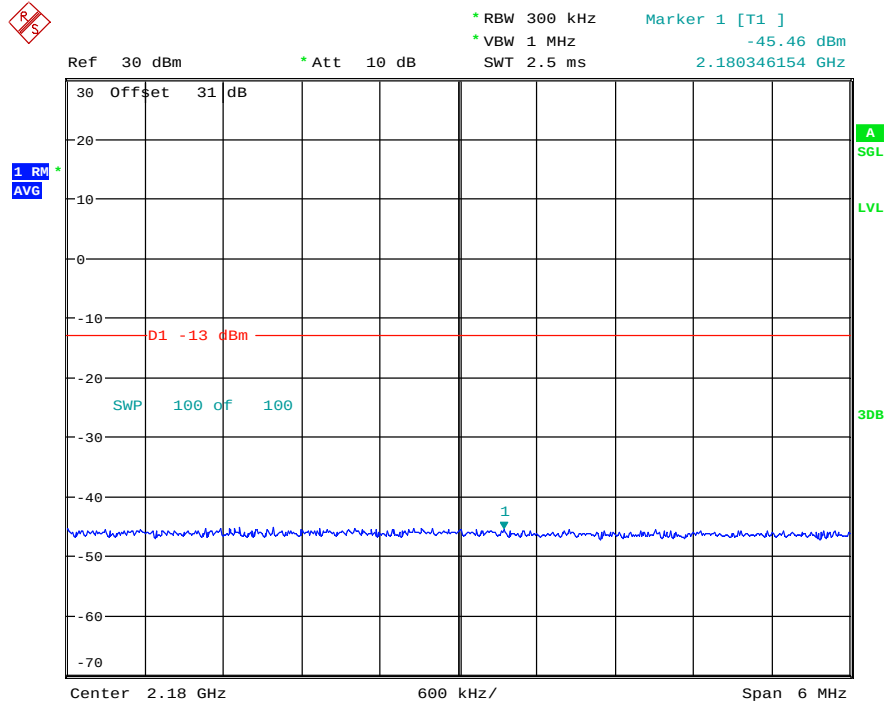


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FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:17:51

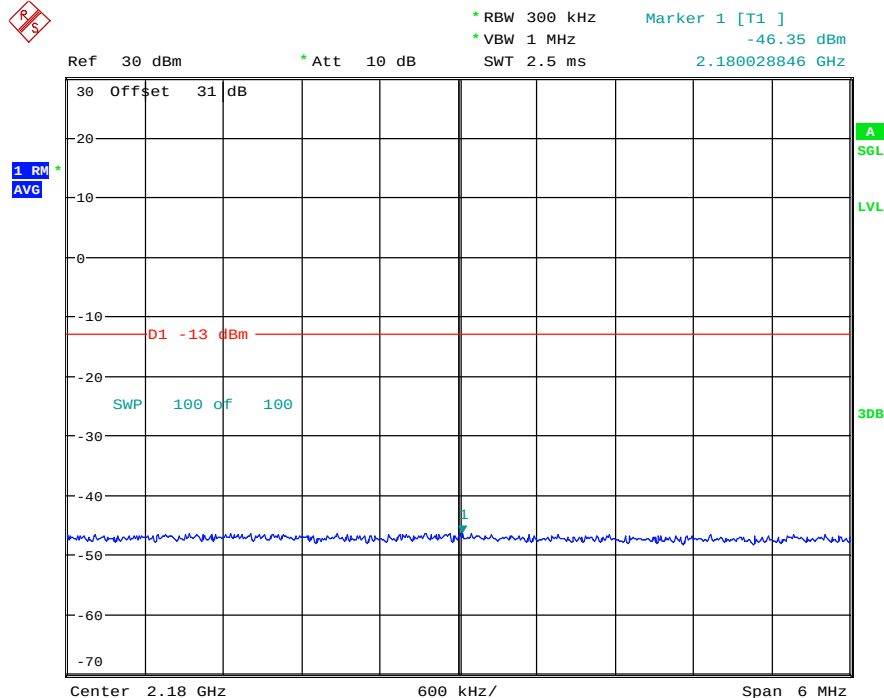


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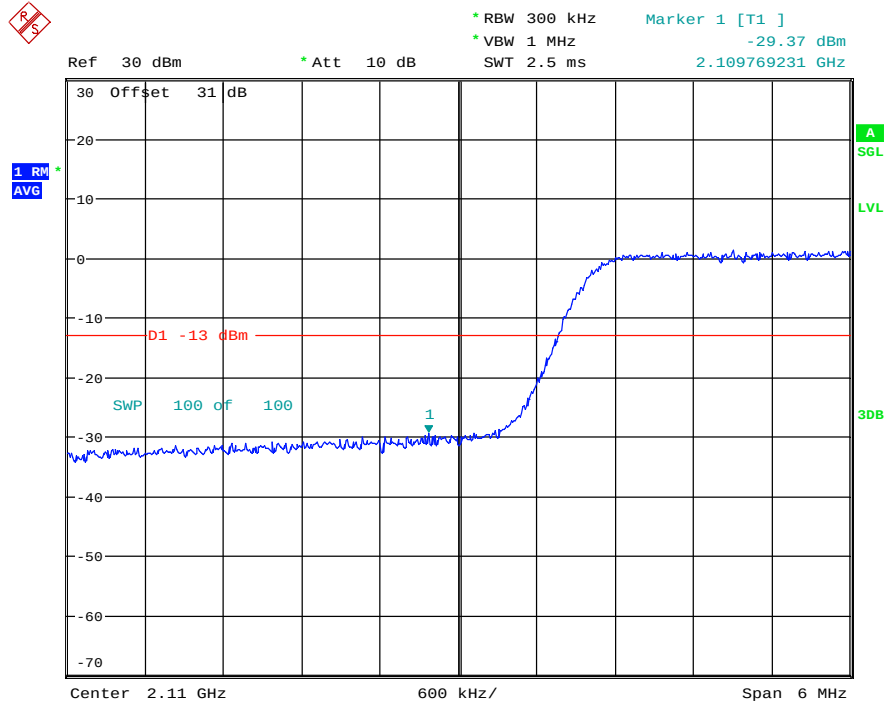


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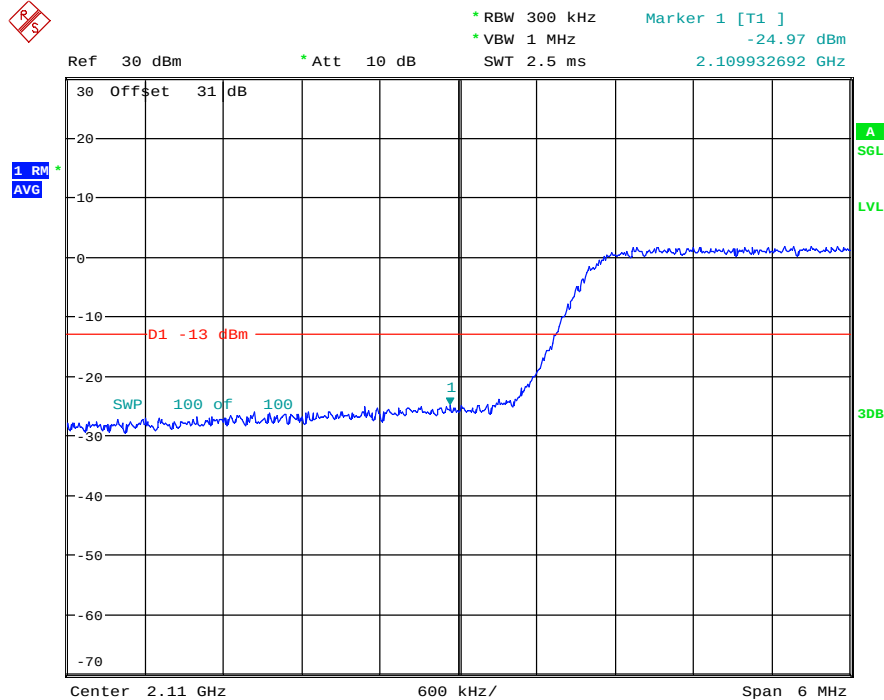


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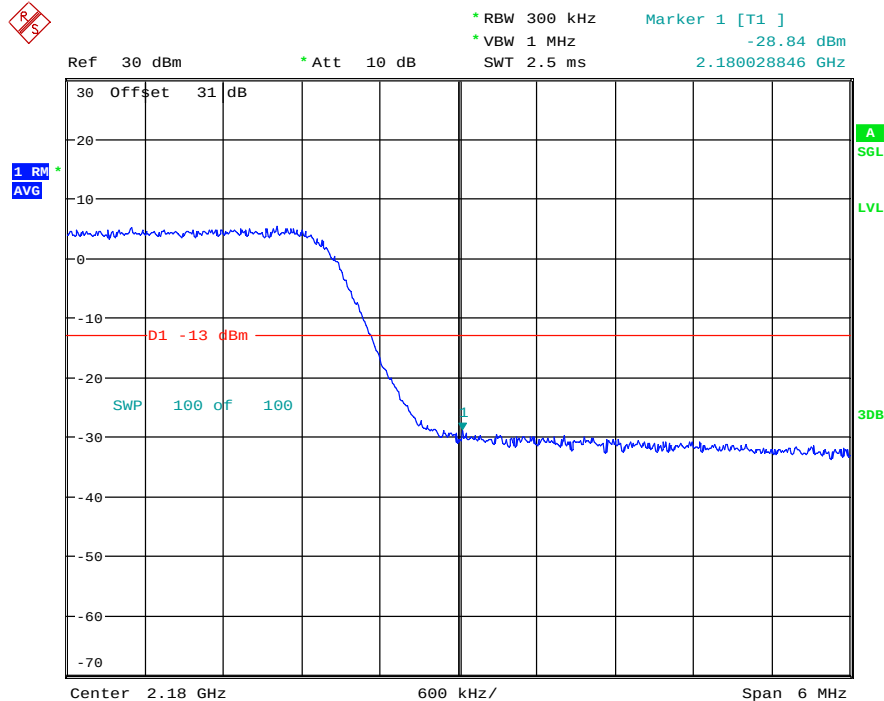


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FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:18:52

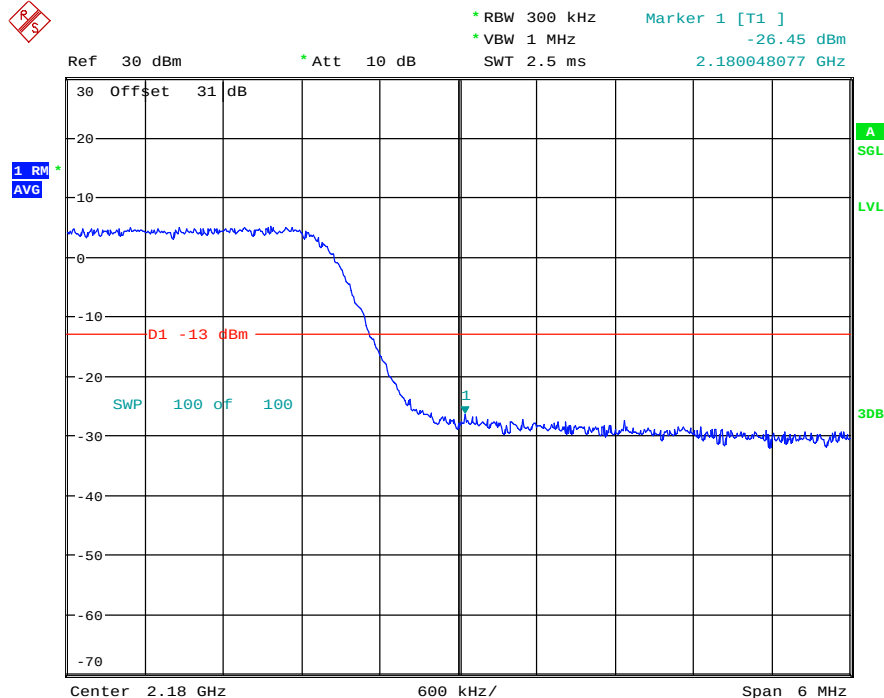


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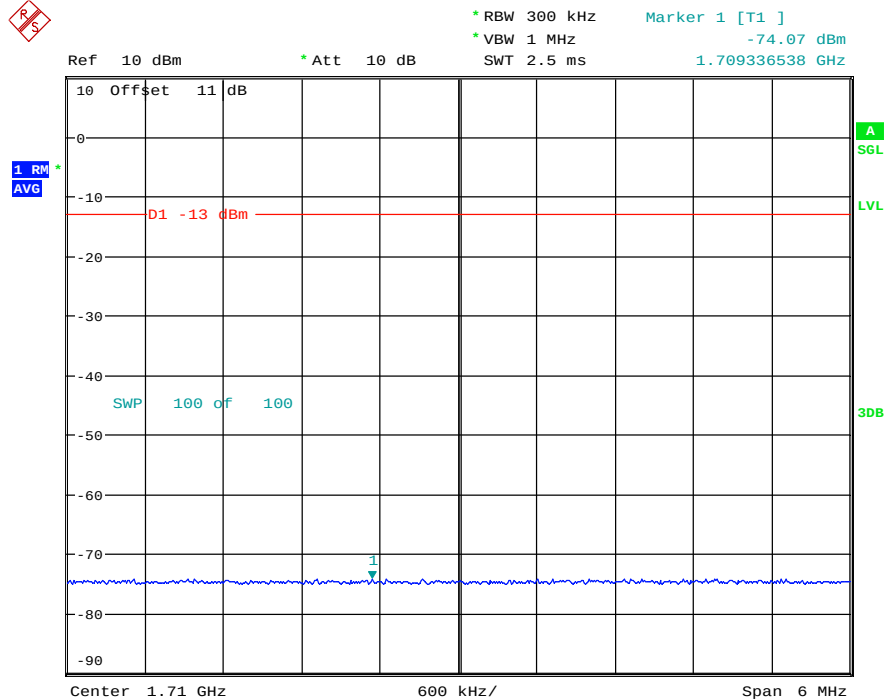


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 09:29:30

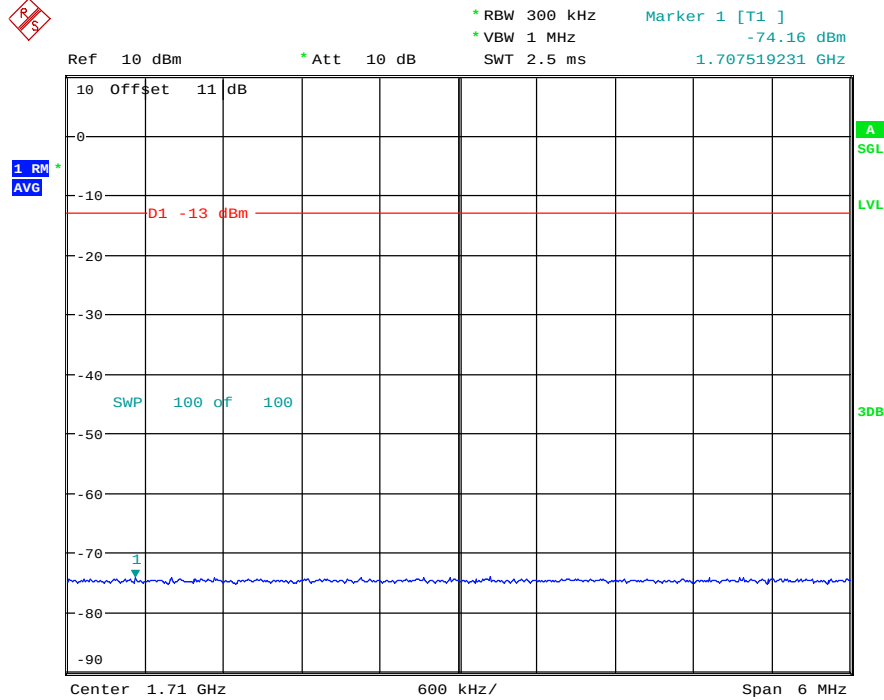


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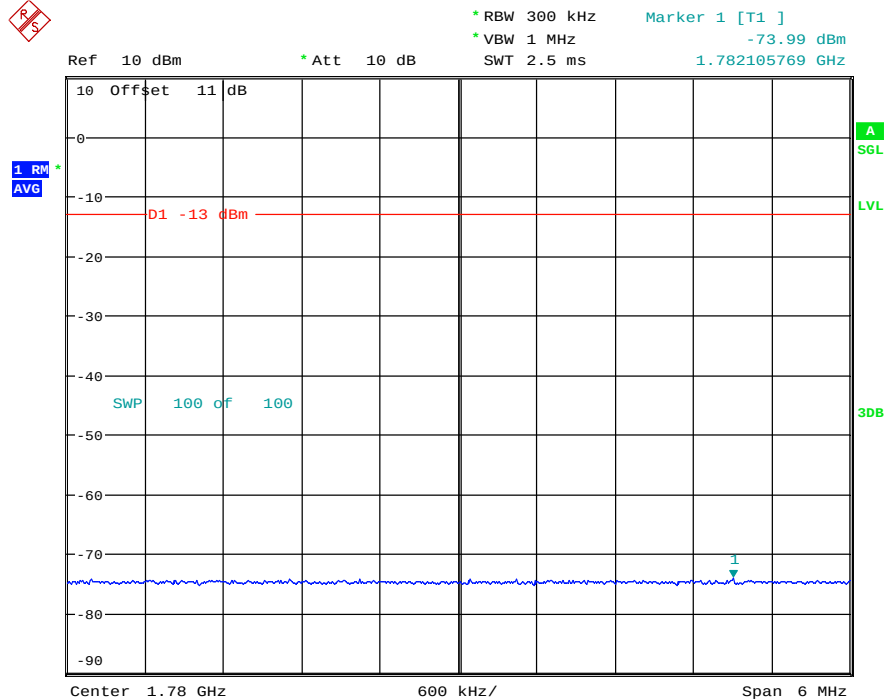


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 13:42:22

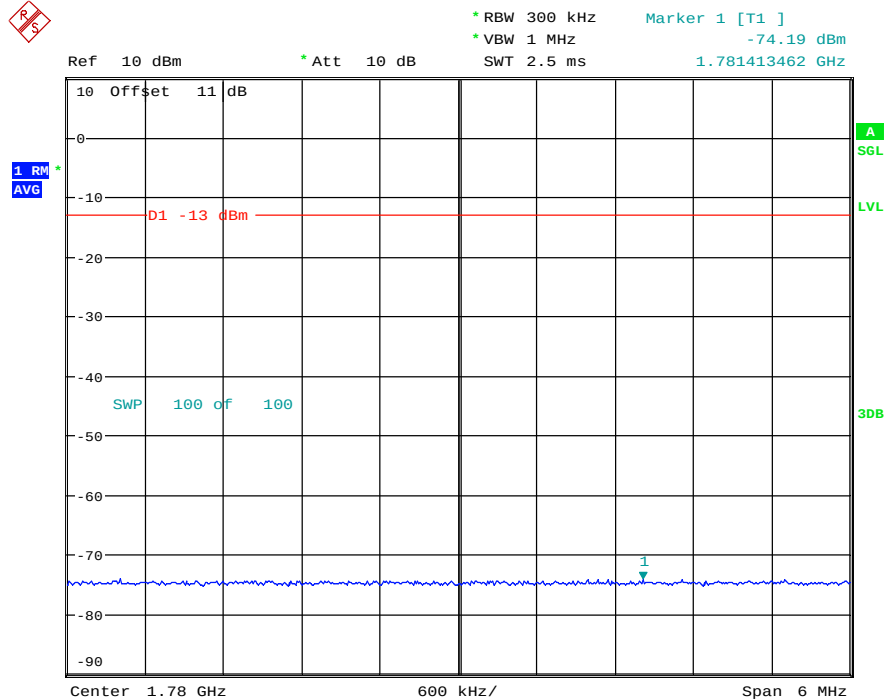


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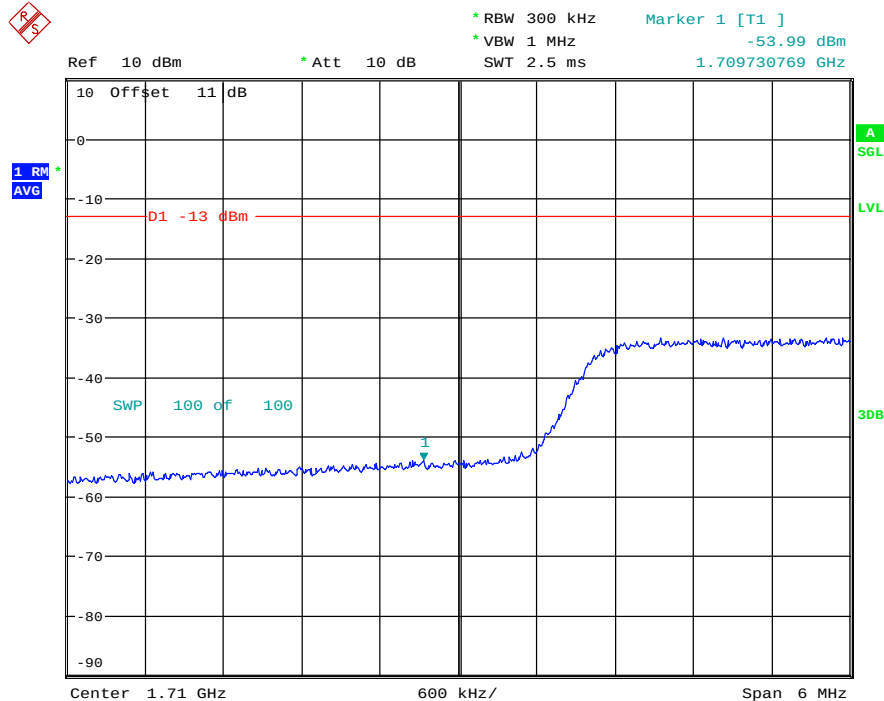


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 13:52:35

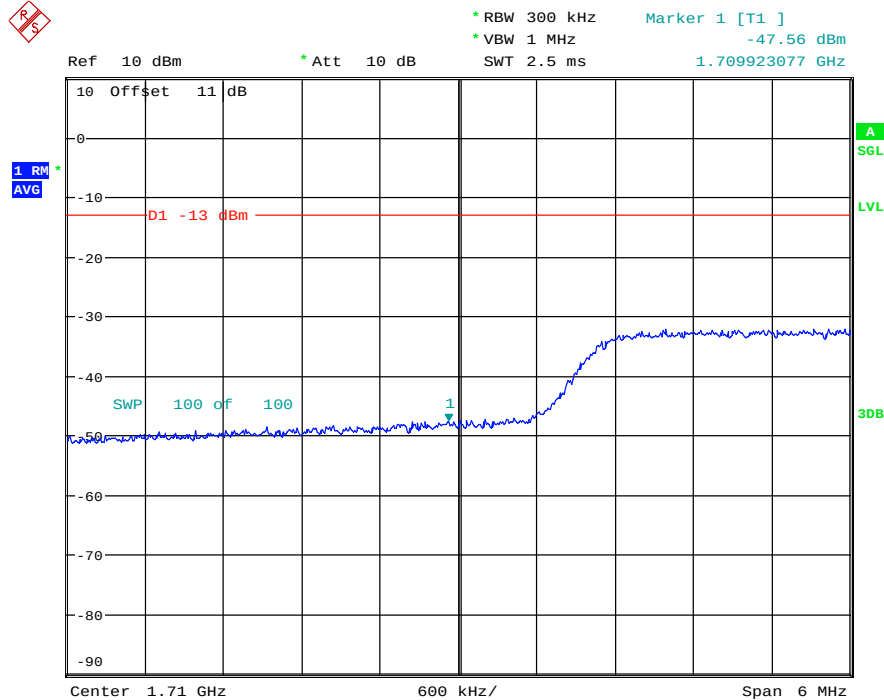


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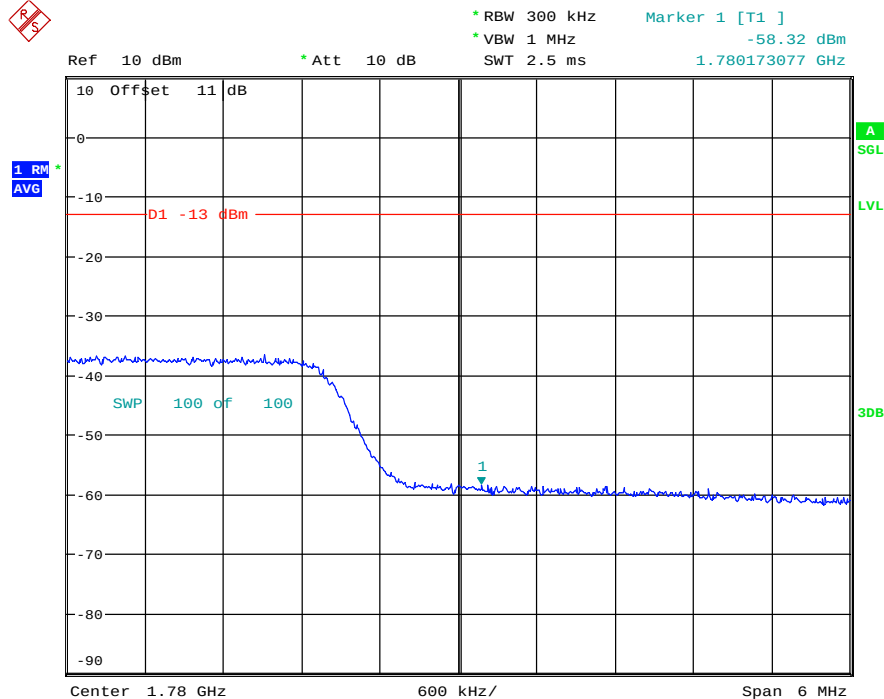


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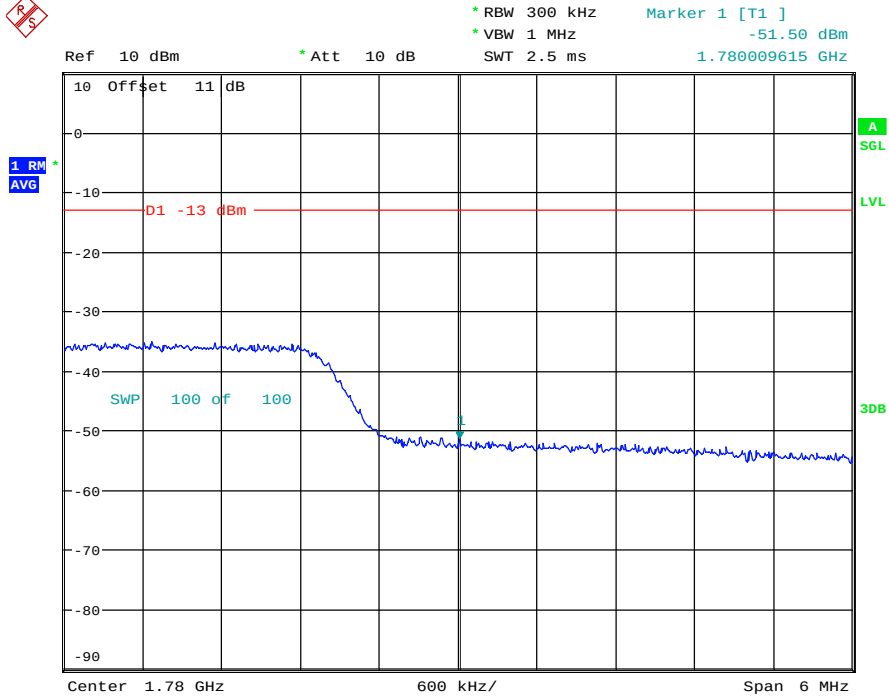


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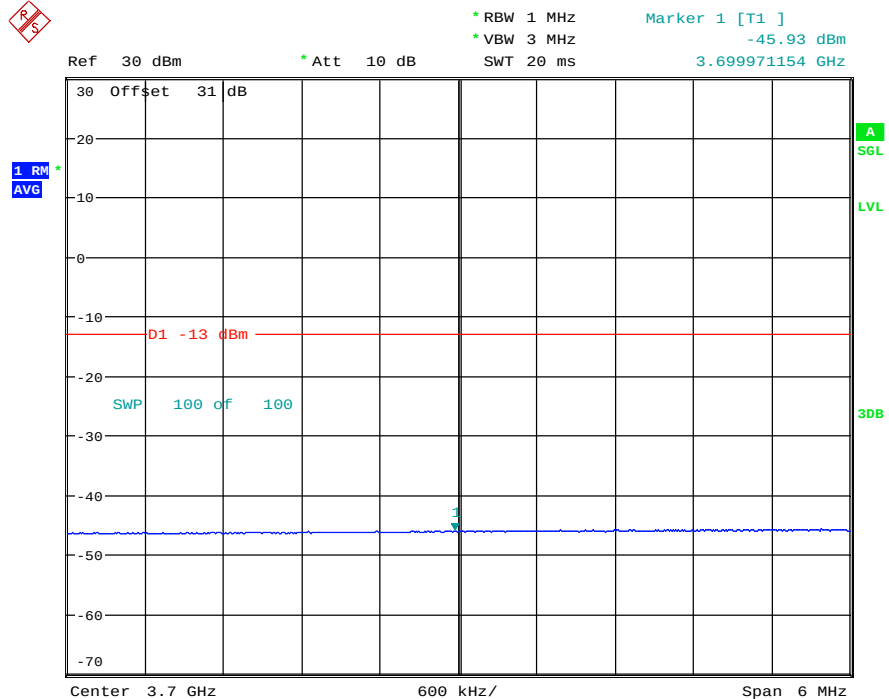
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FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 13:52:59

5GNR n77

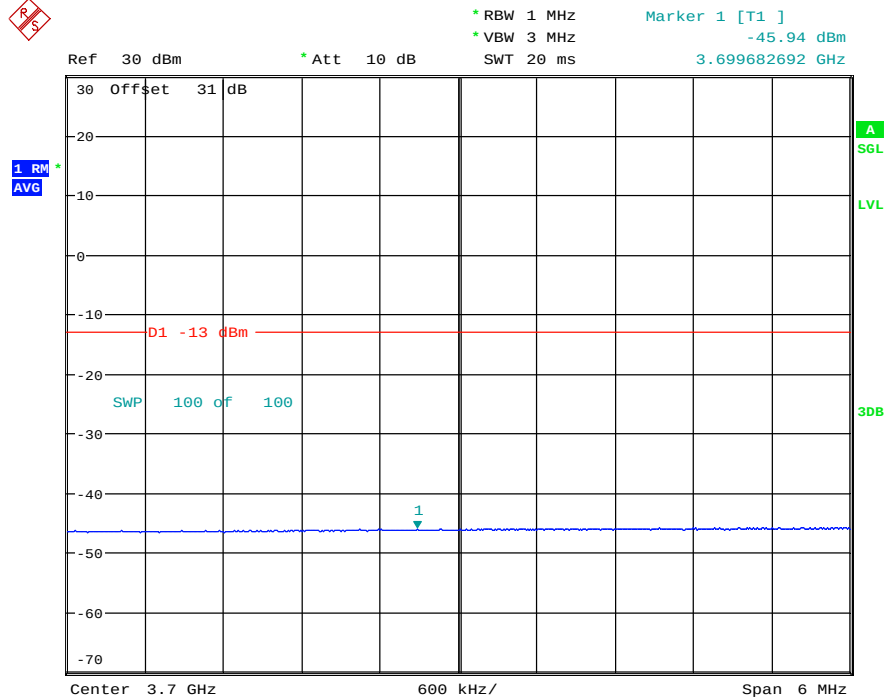


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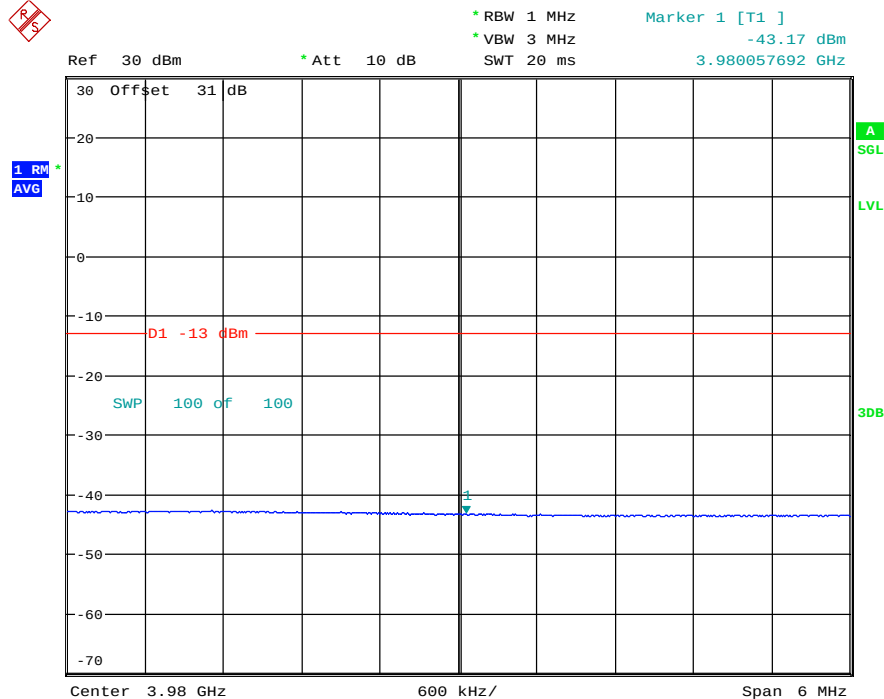


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:14:50



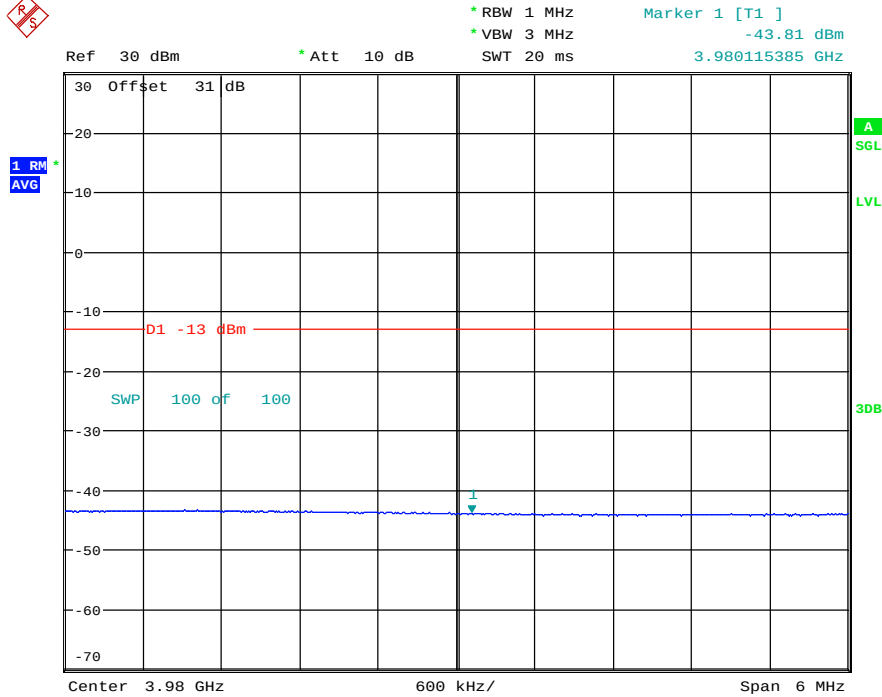
Date: 12.MAY.2025 10:22:41



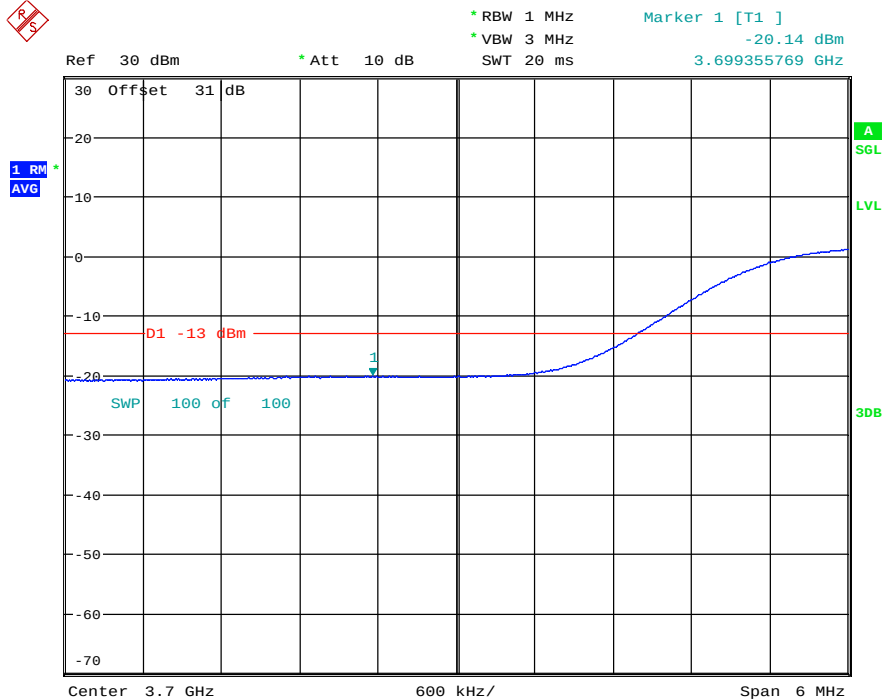
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:24:01

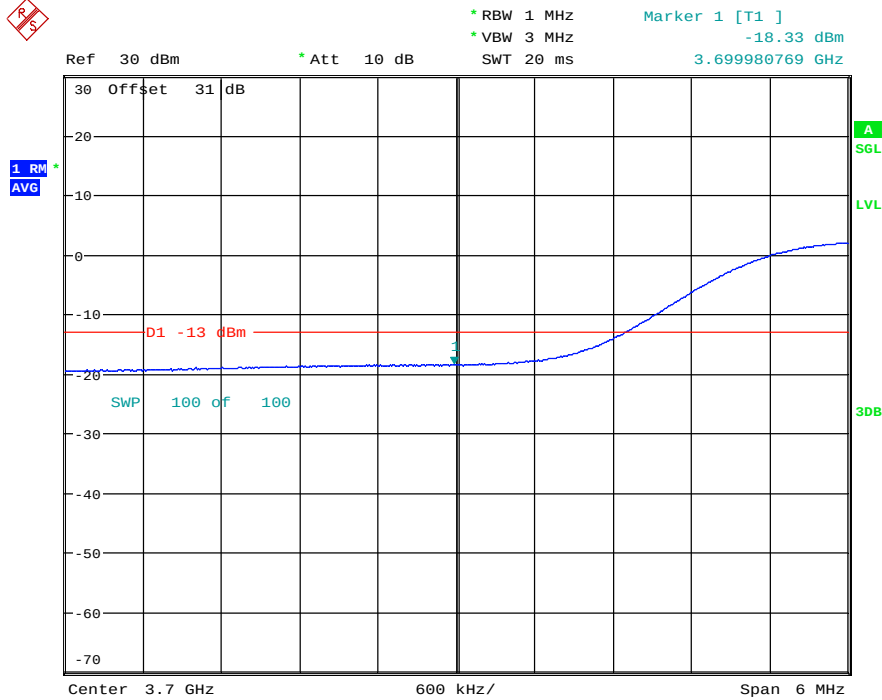


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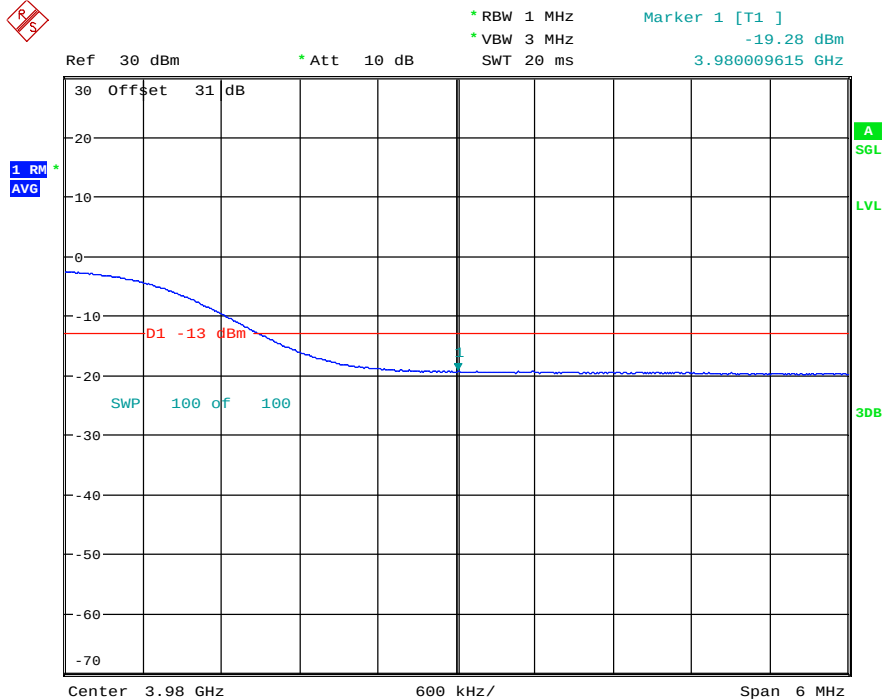


Report Number: W6M22504-24316-P-20

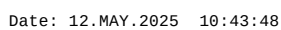
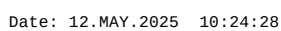
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Date: 12.MAY.2025 10:23:04

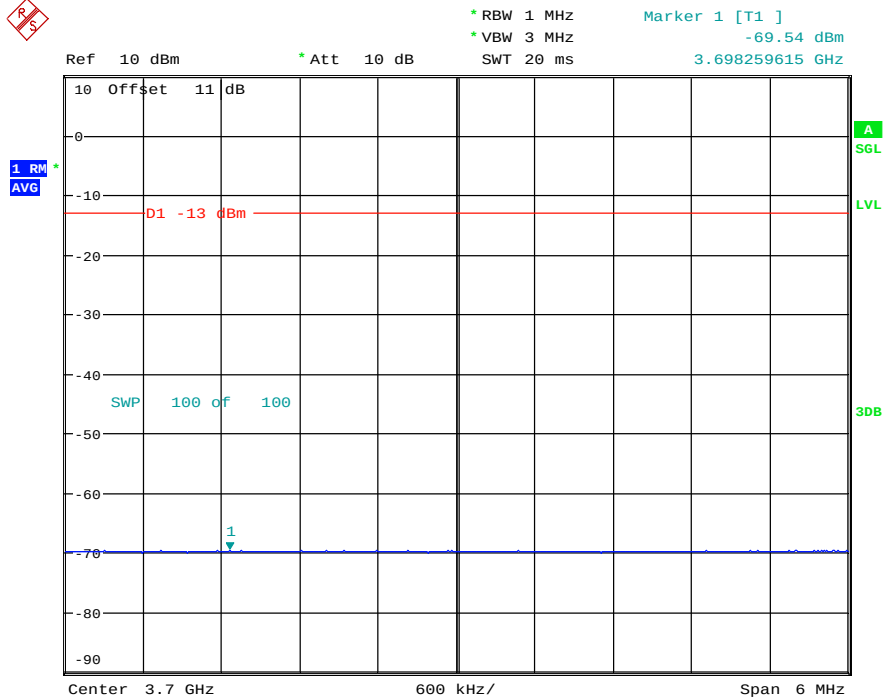




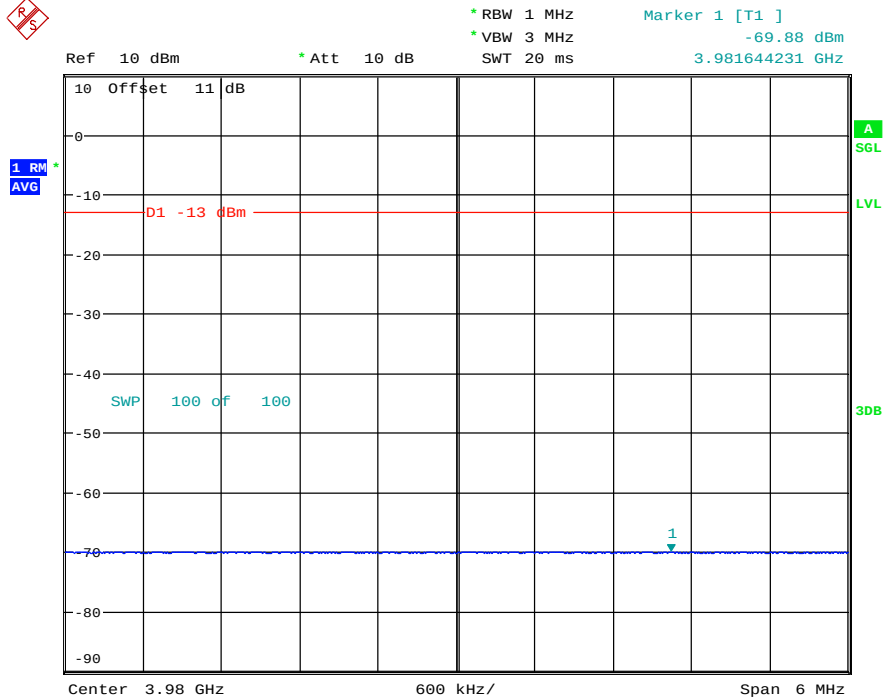
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



Date: 12.MAY.2025 10:45:57

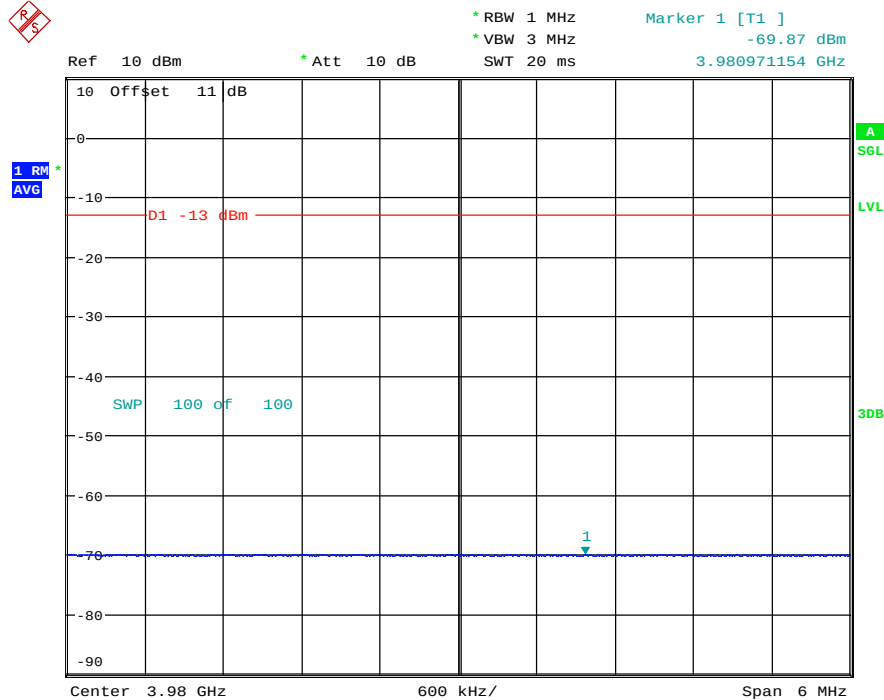


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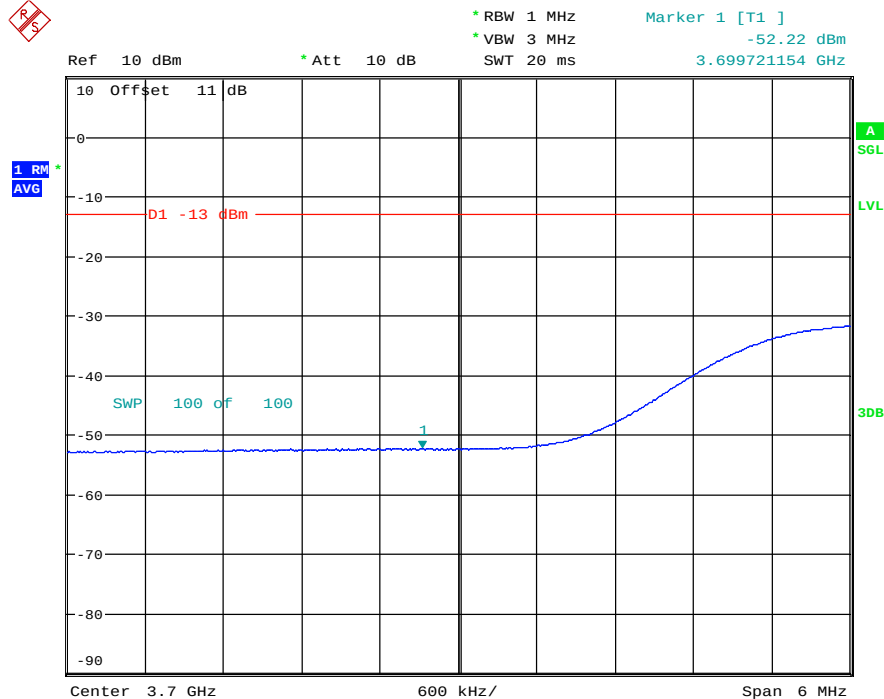


Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO



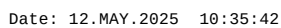
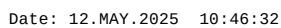
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Date: 12.MAY.2025 10:44:31



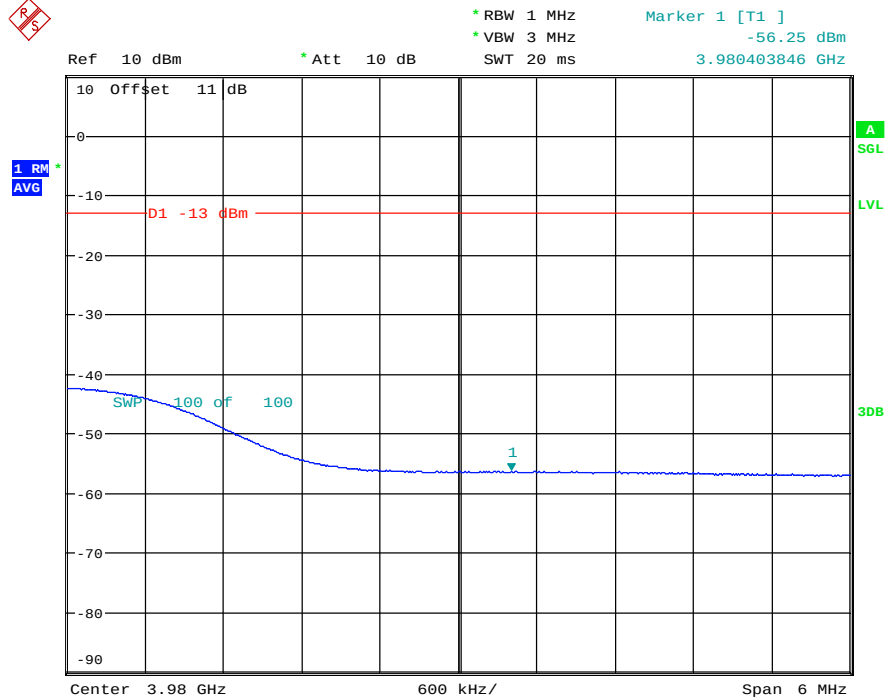
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Report Number: W6M22504-24316-P-20

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Date: 12.MAY.2025 10:37:24



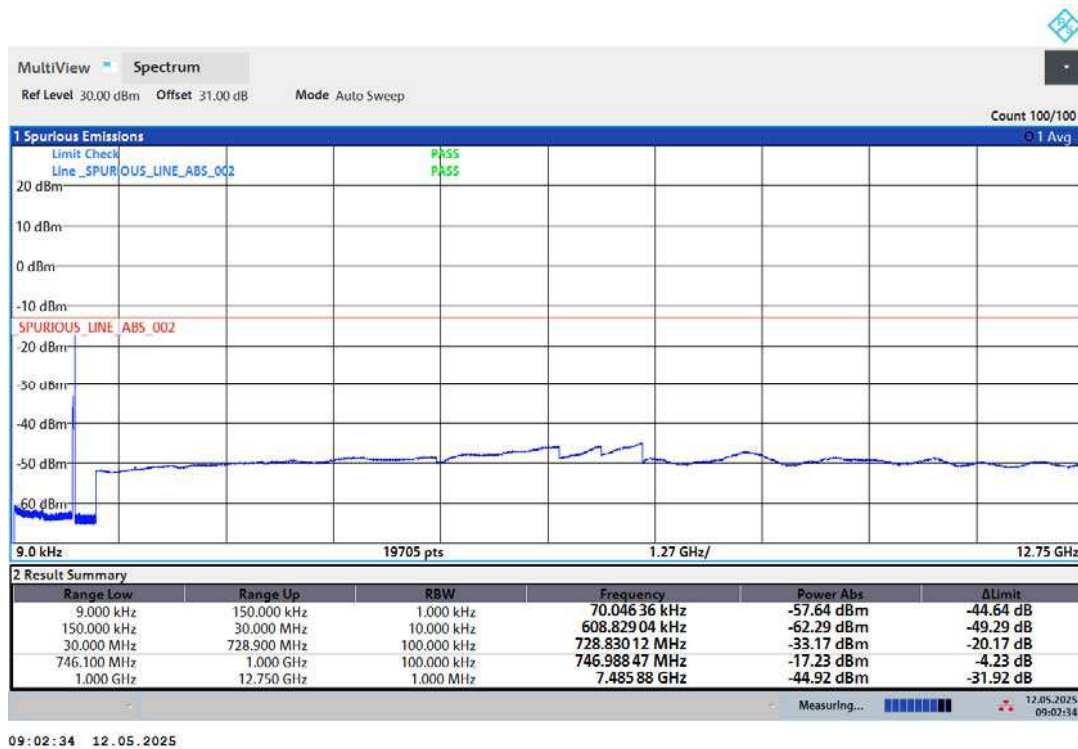
Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

Conducted spurious emission

LTE Band 12

DL_7340



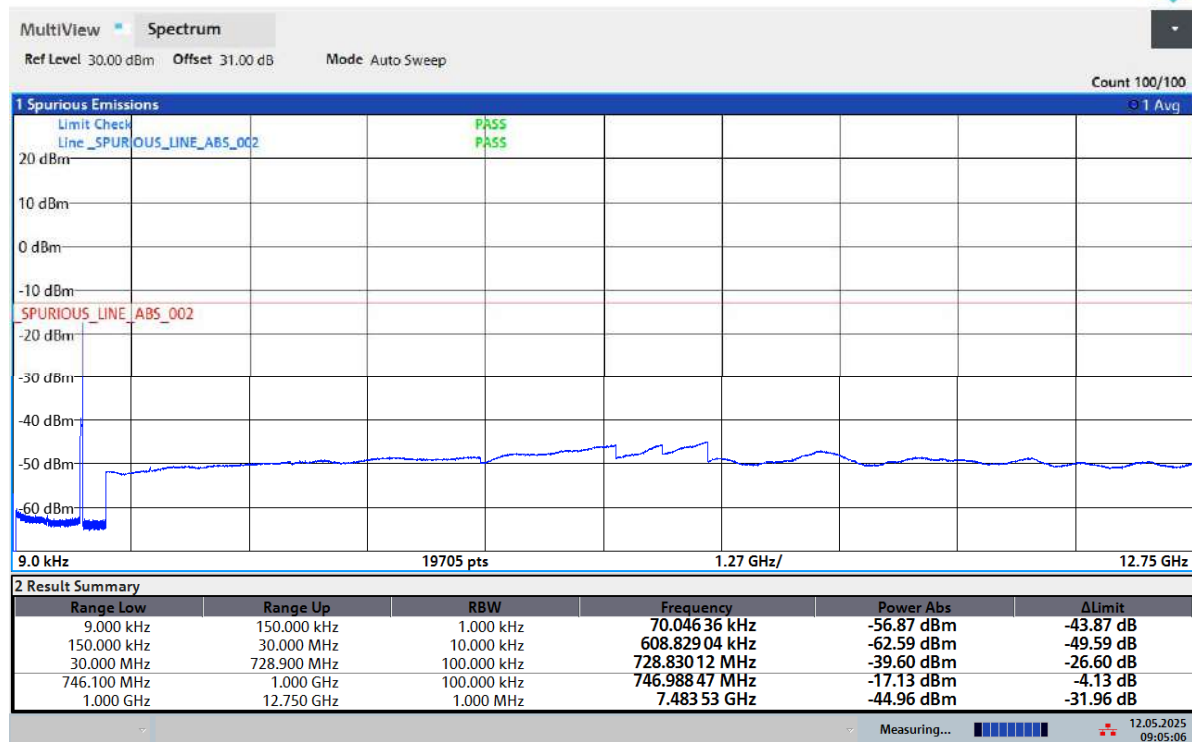
DL_7375





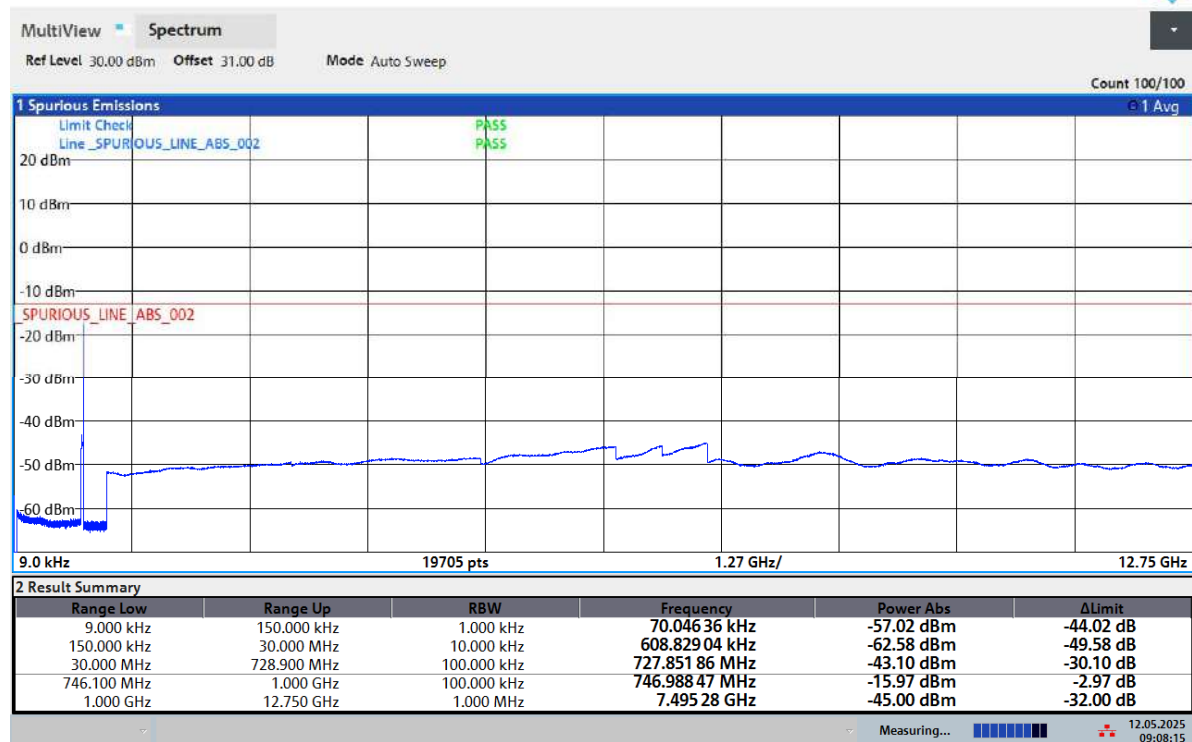
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20
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DL_7410



09:05:07 12.05.2025

DL_NarrowBand_7340



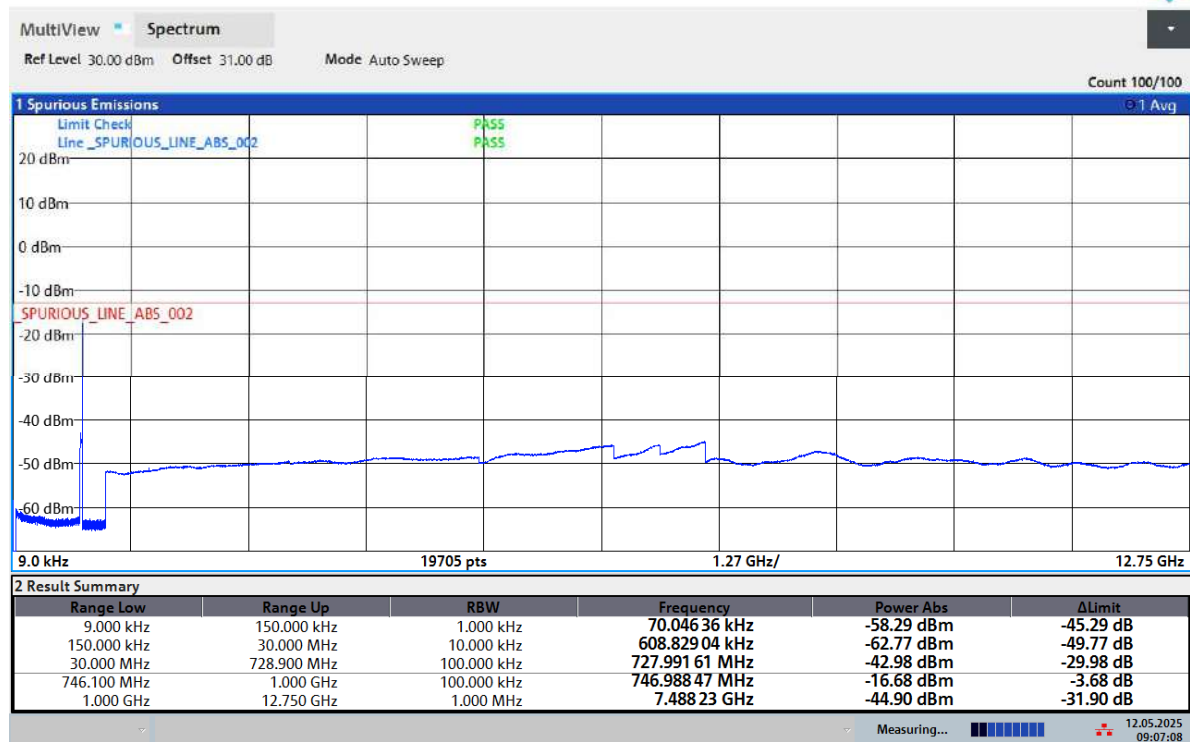
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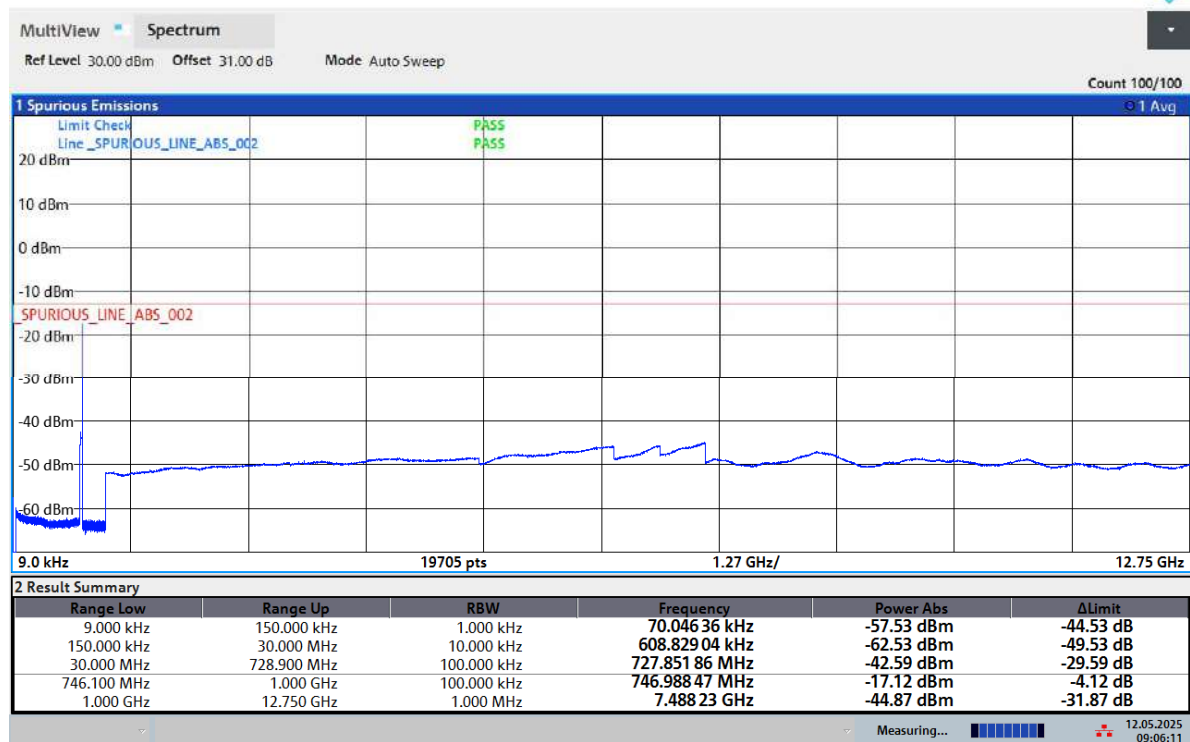
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NarrowBand_7375



09:07:08 12.05.2025

NarrowBand_7410



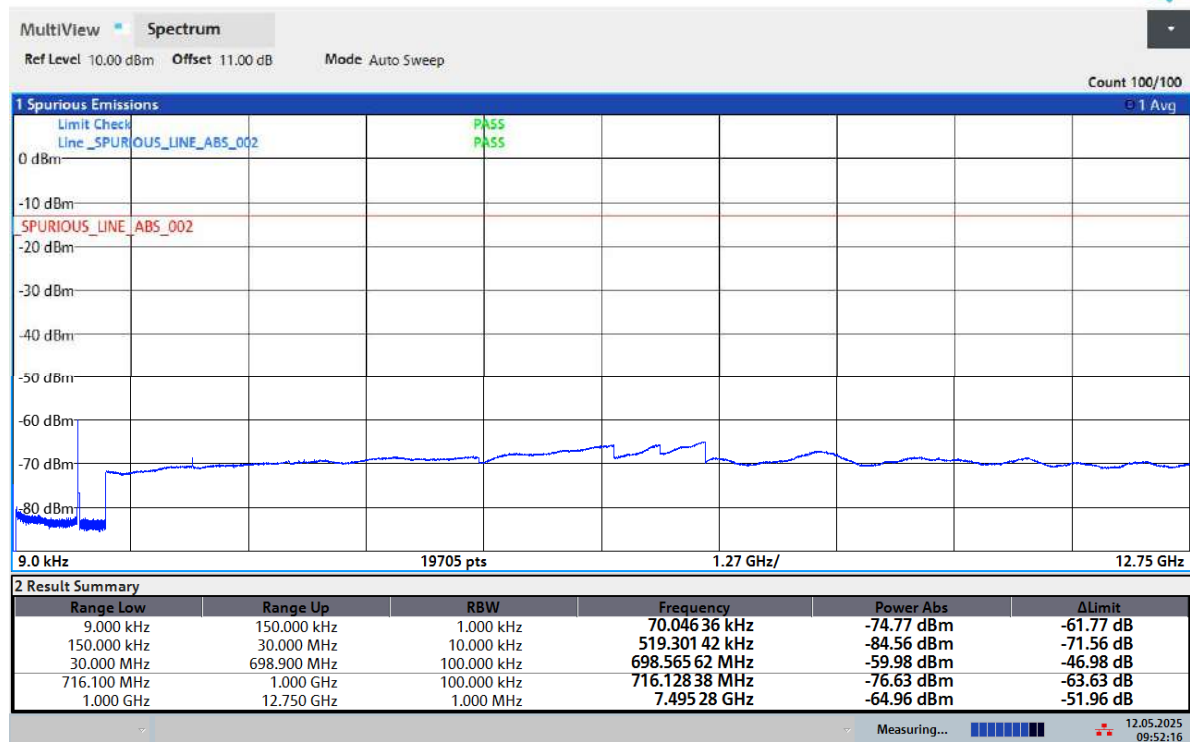
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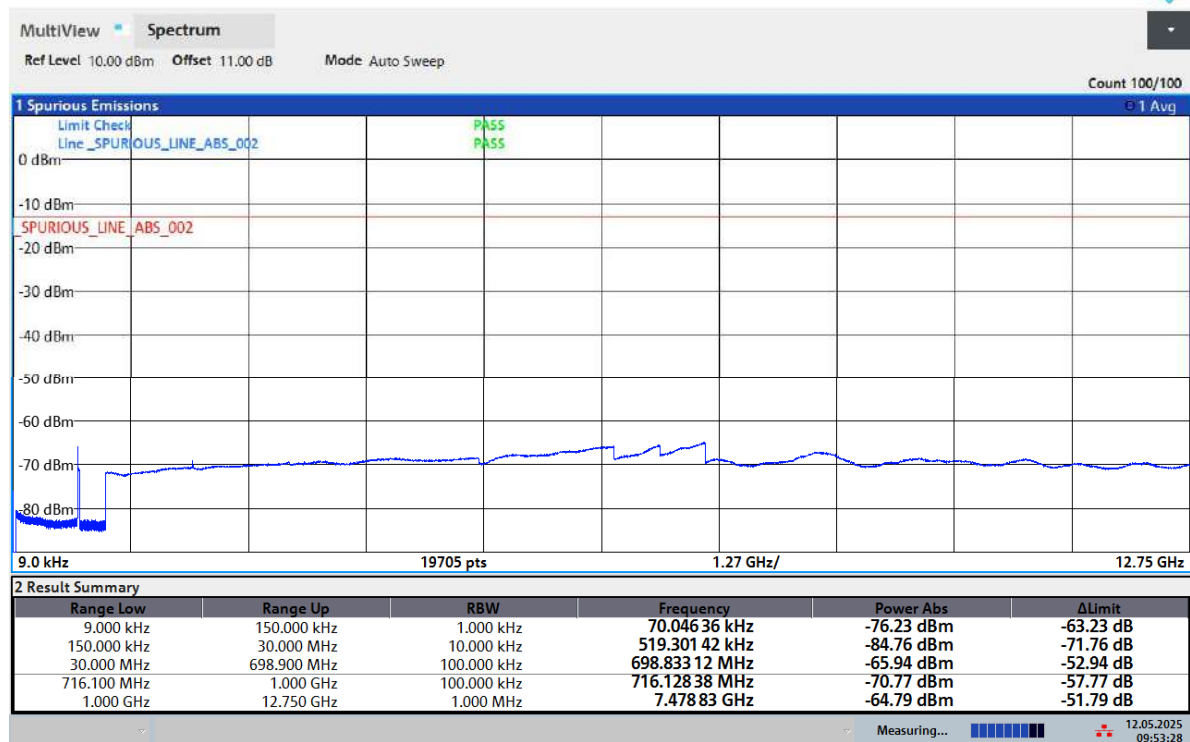
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UL_7040



09:52:17 12.05.2025

UL_7075



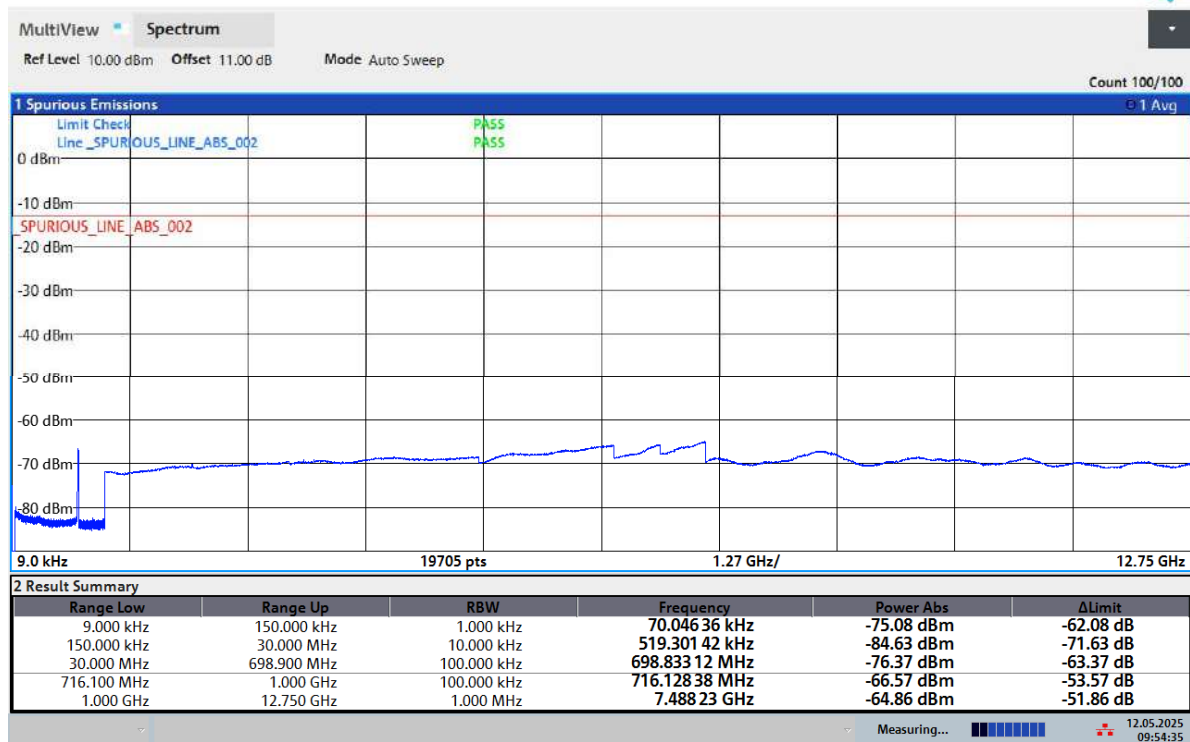
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Report Number: W6M22504-24316-P-20

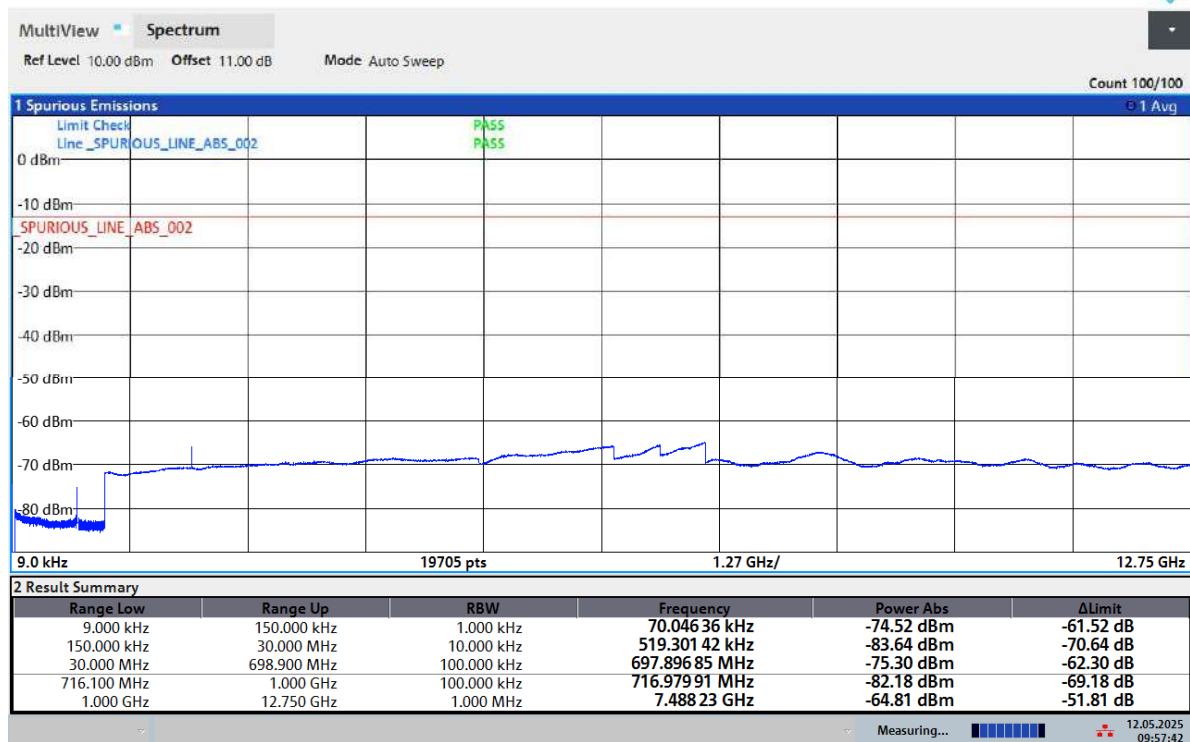
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UL_7110



09:54:36 12.05.2025

UL_NarrowBand_7040



09:57:43 12.05.2025

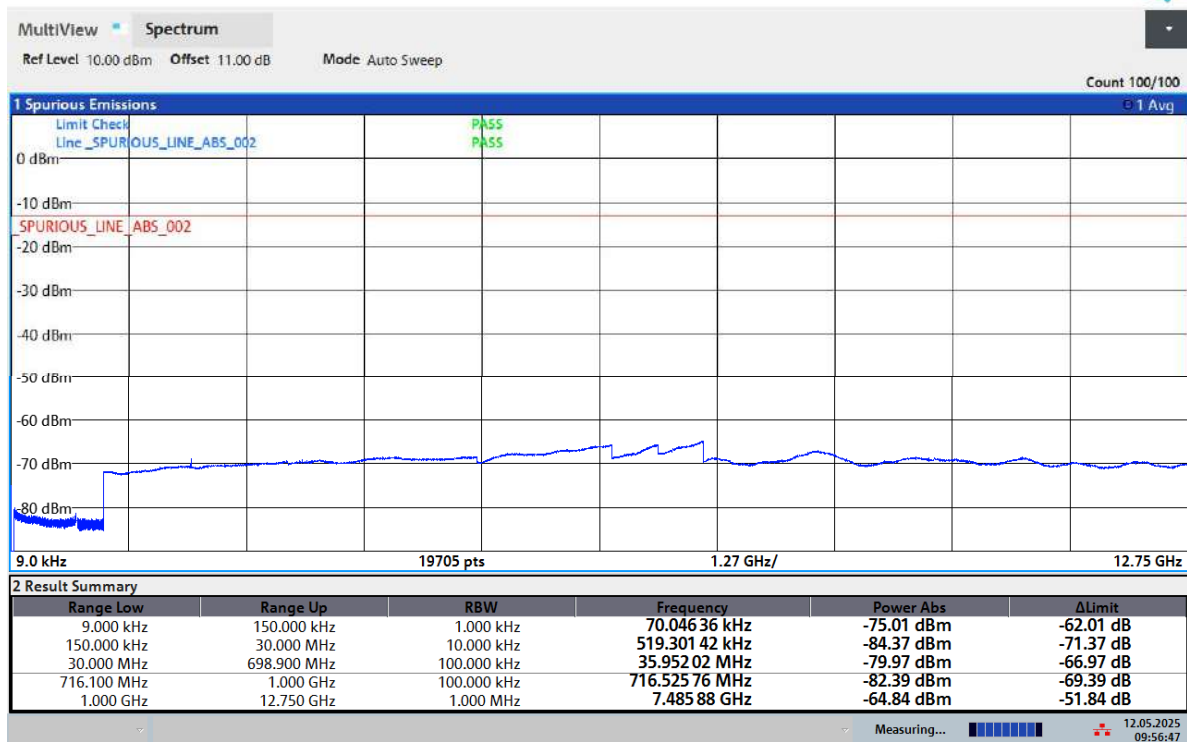


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

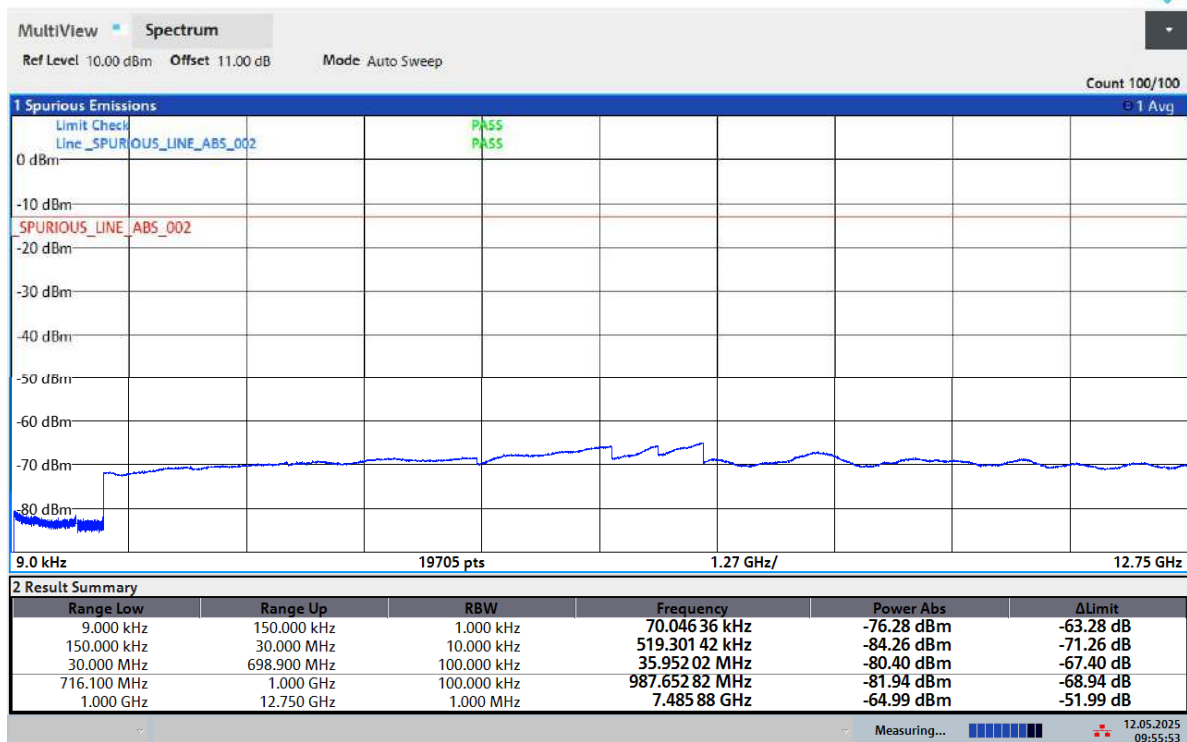
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NarrowBand_7075



09:56:48 12.05.2025

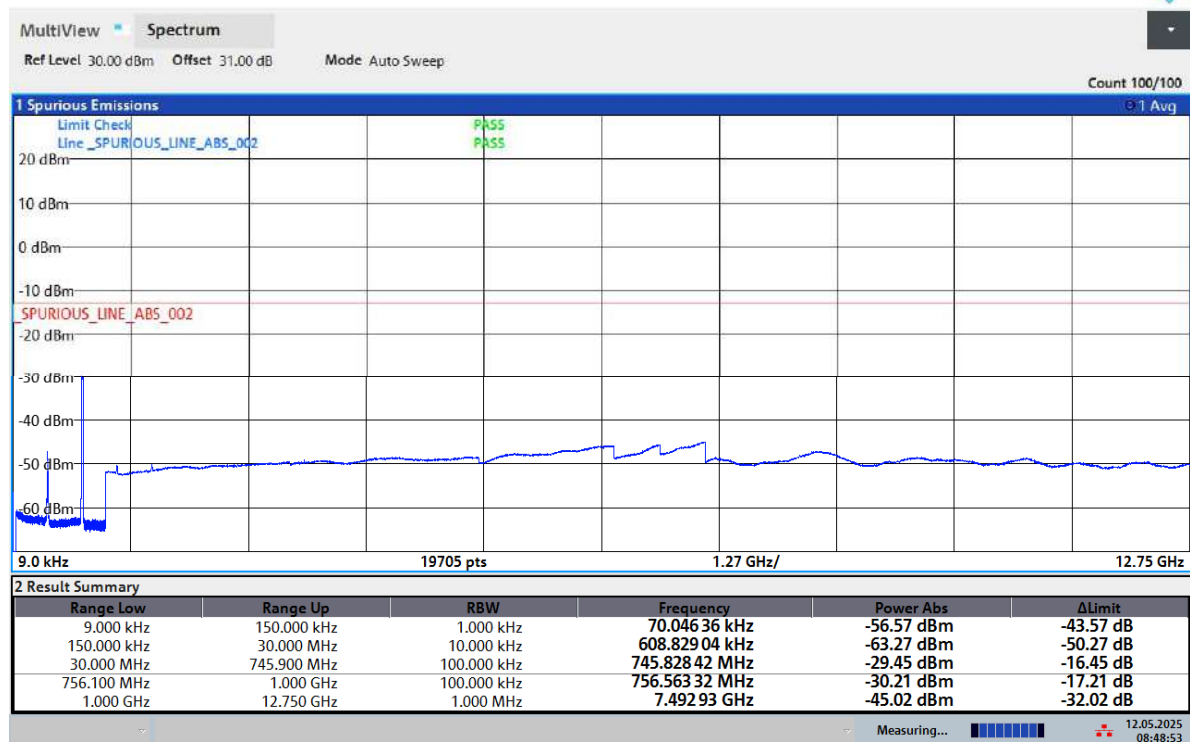
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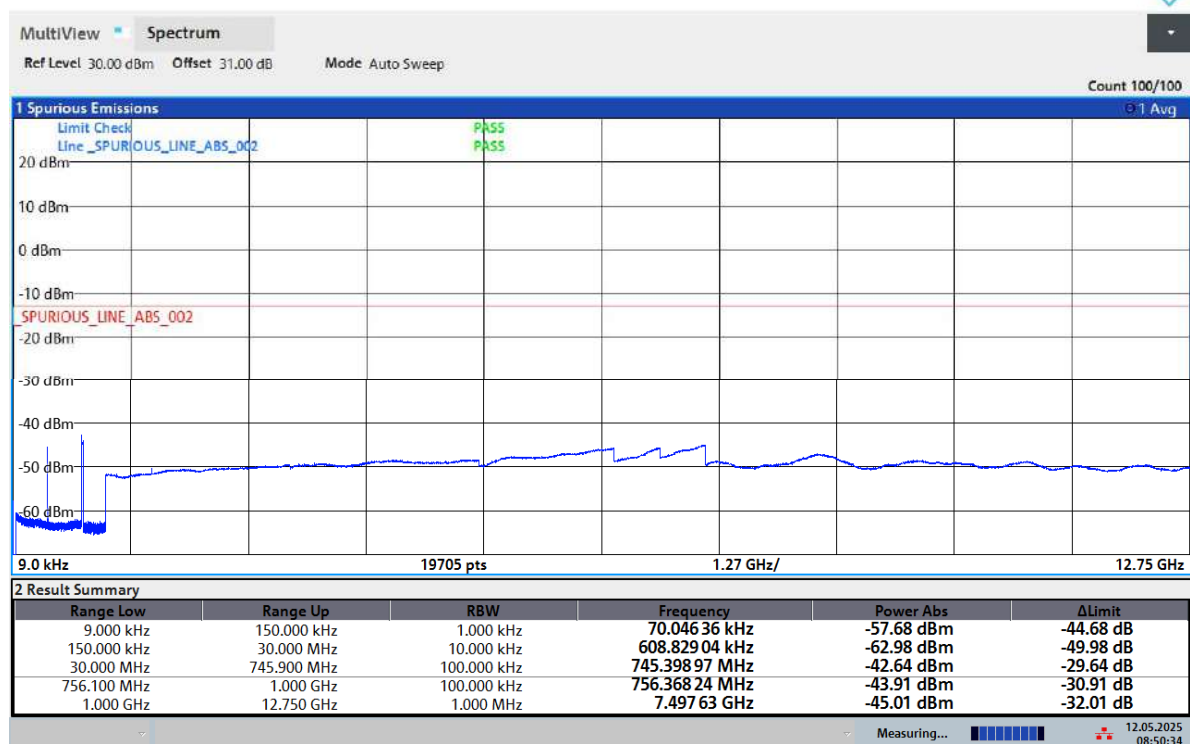


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LTE Band 13
DL_751



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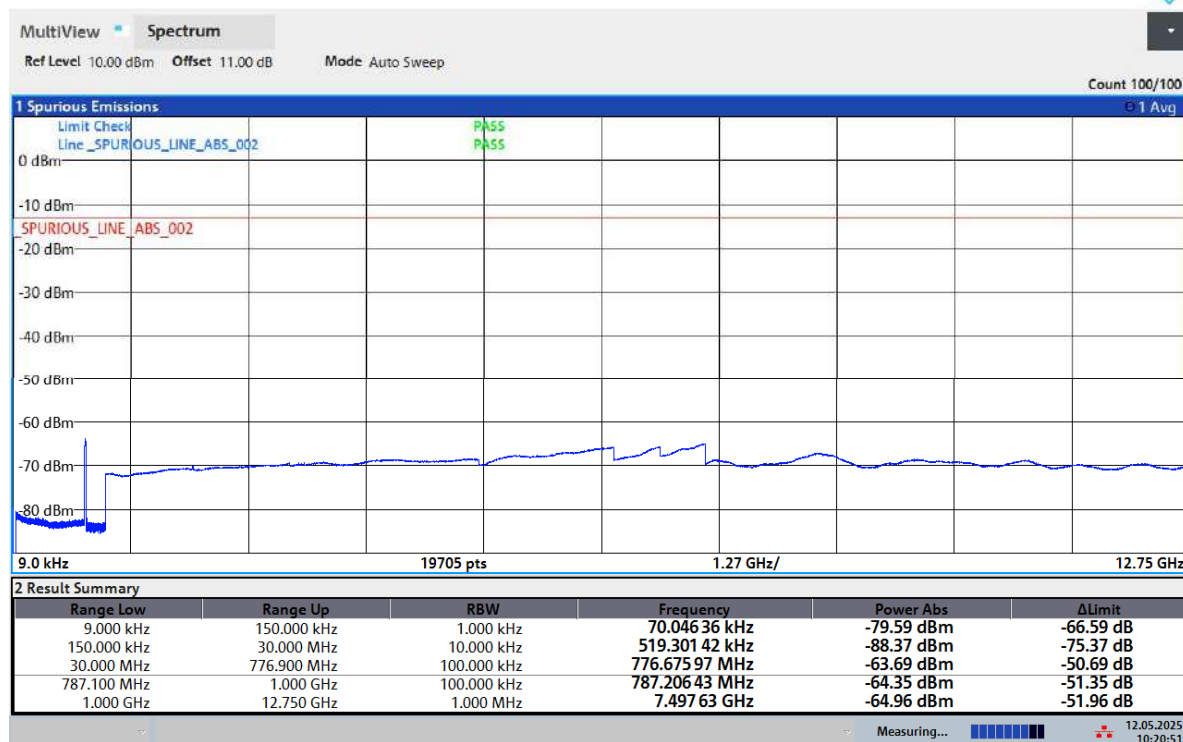
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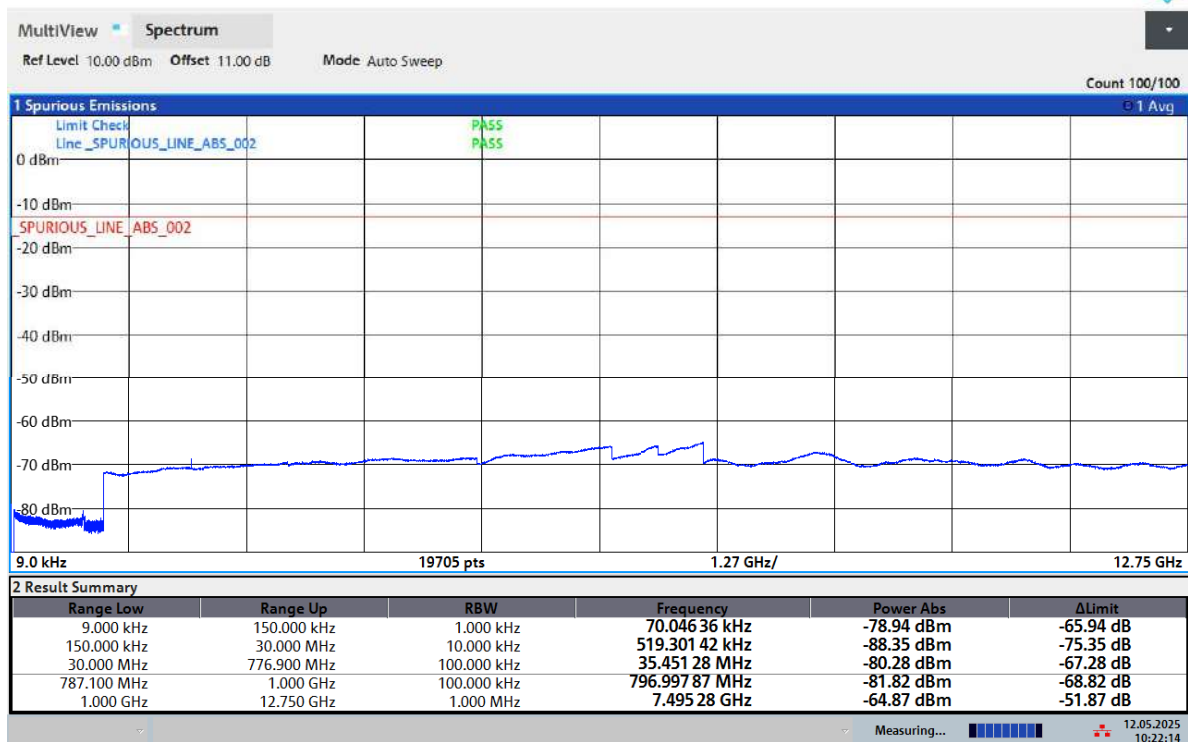


Report Number: W6M22504-24316-P-20
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UL_782



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UL_NarrowBand_78



10:22:15 12.05.2025

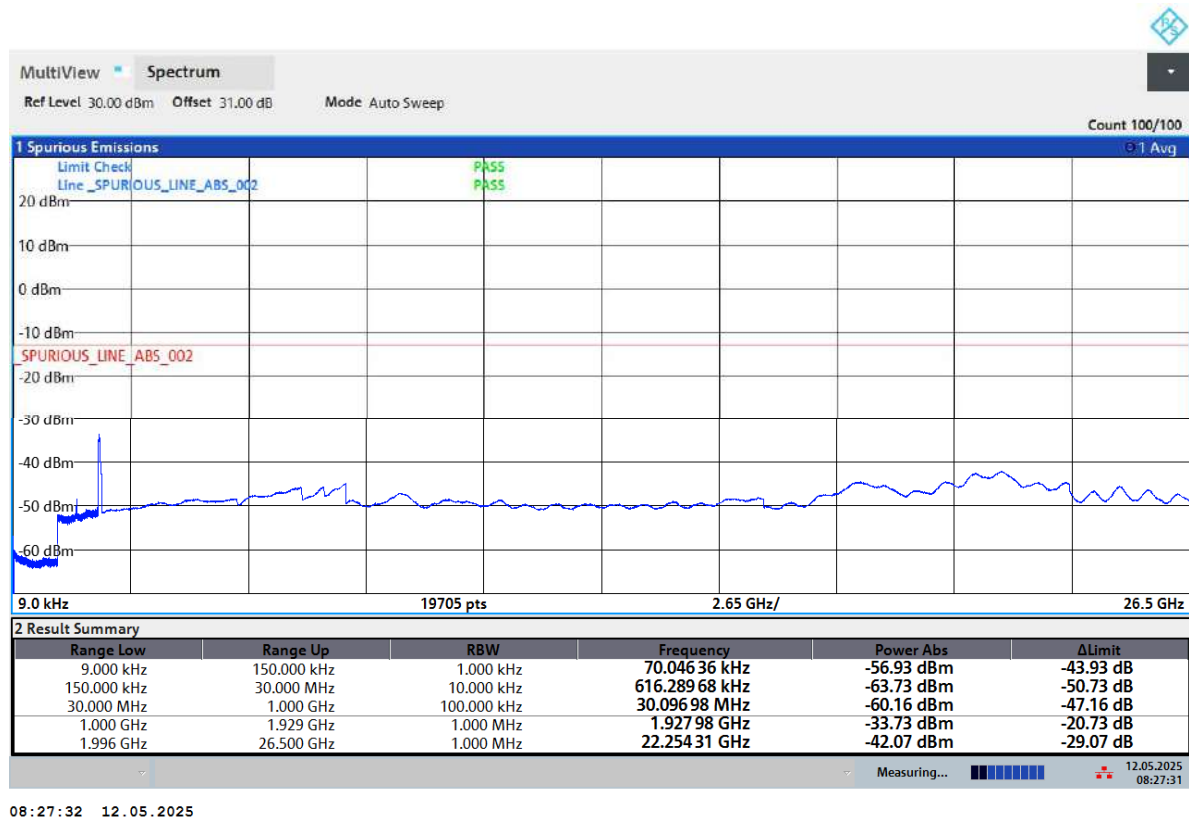


Report Number: W6M22504-24316-P-20

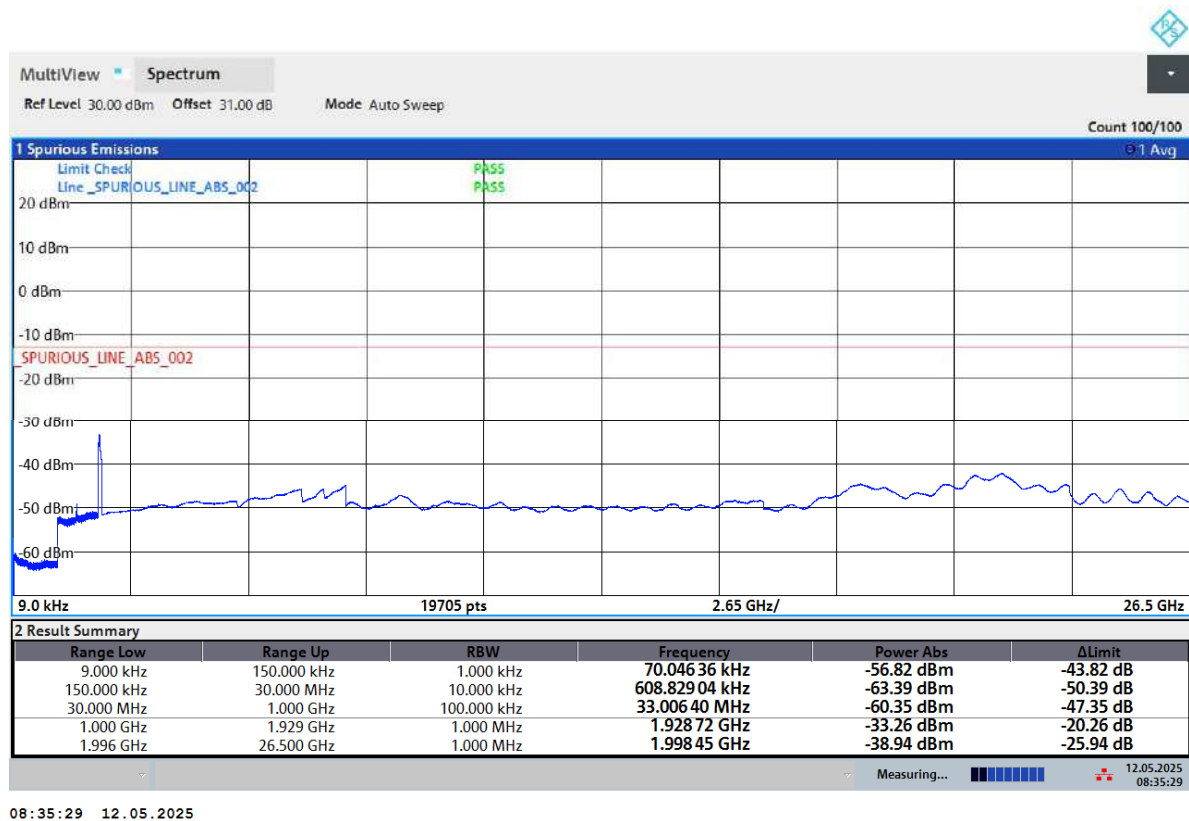
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LTE Band 25

DL_19400

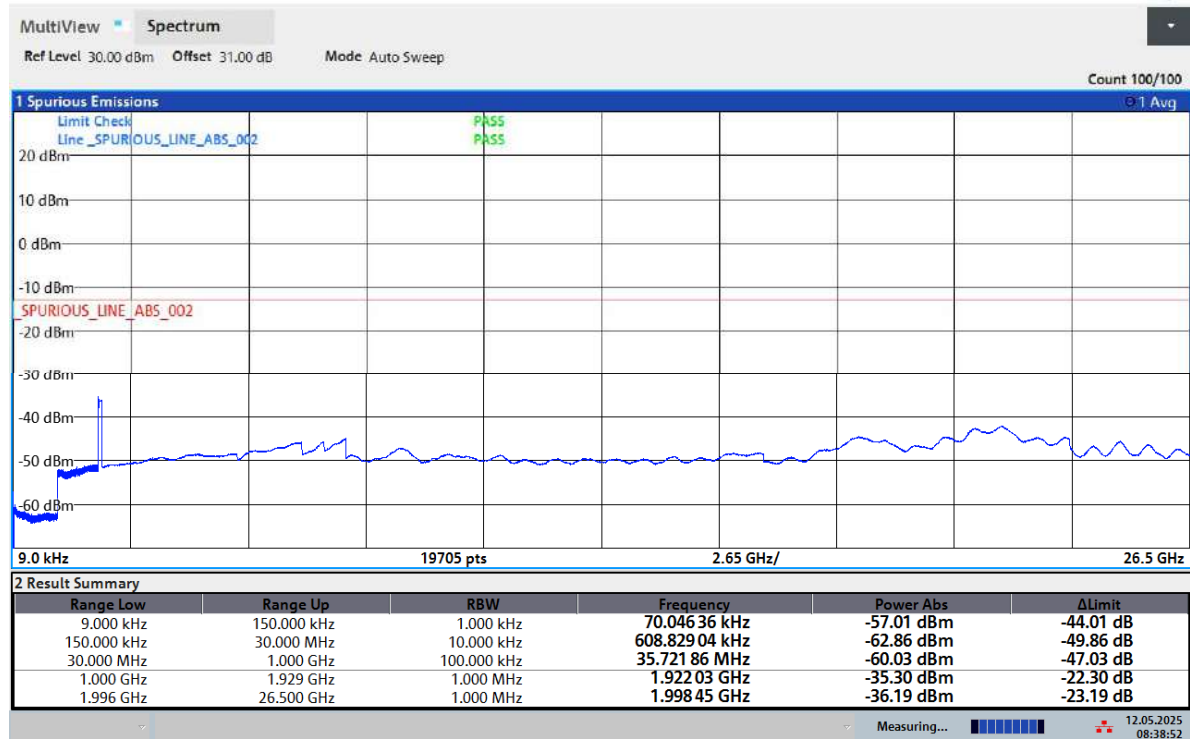


DL_19625



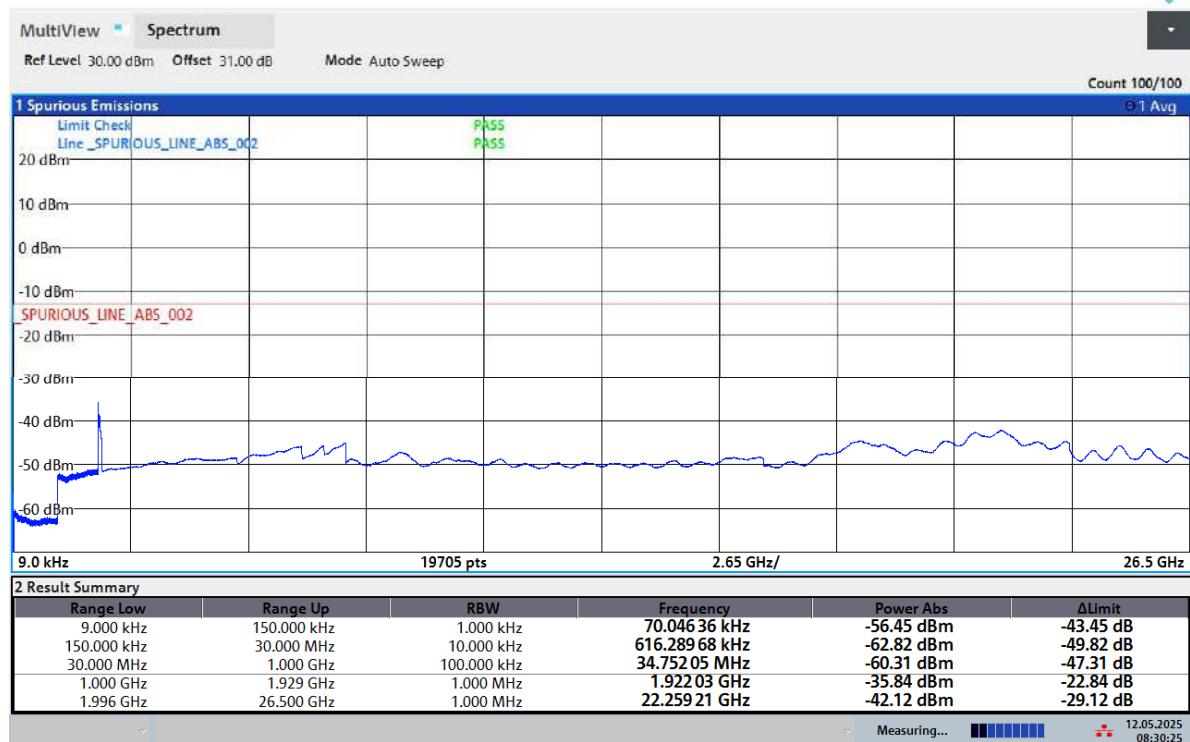


Report Number: W6M22504-24316-P-20
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DL_19850



08:38:53 12.05.2025

DL_NarrowBand_19400



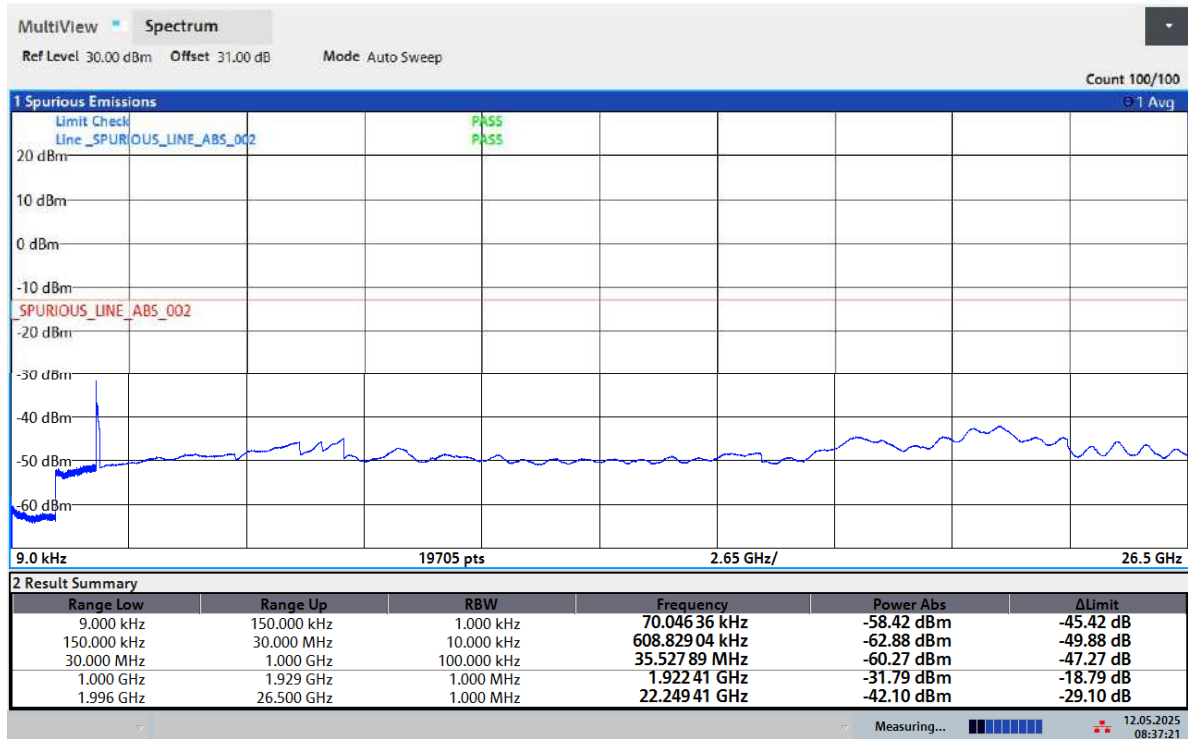
08:30:26 12.05.2025



Report Number: W6M22504-24316-P-20

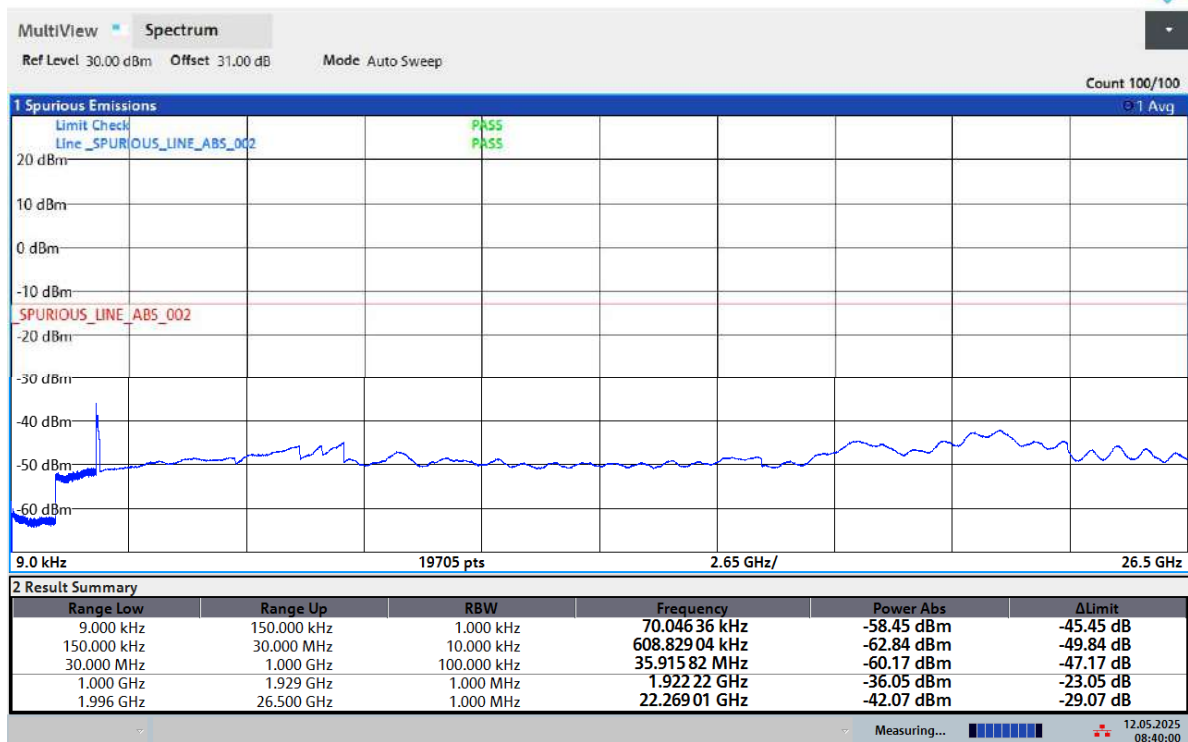
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DL_NarrowBand_19625



08:37:21 12.05.2025

DL_NarrowBand_19850



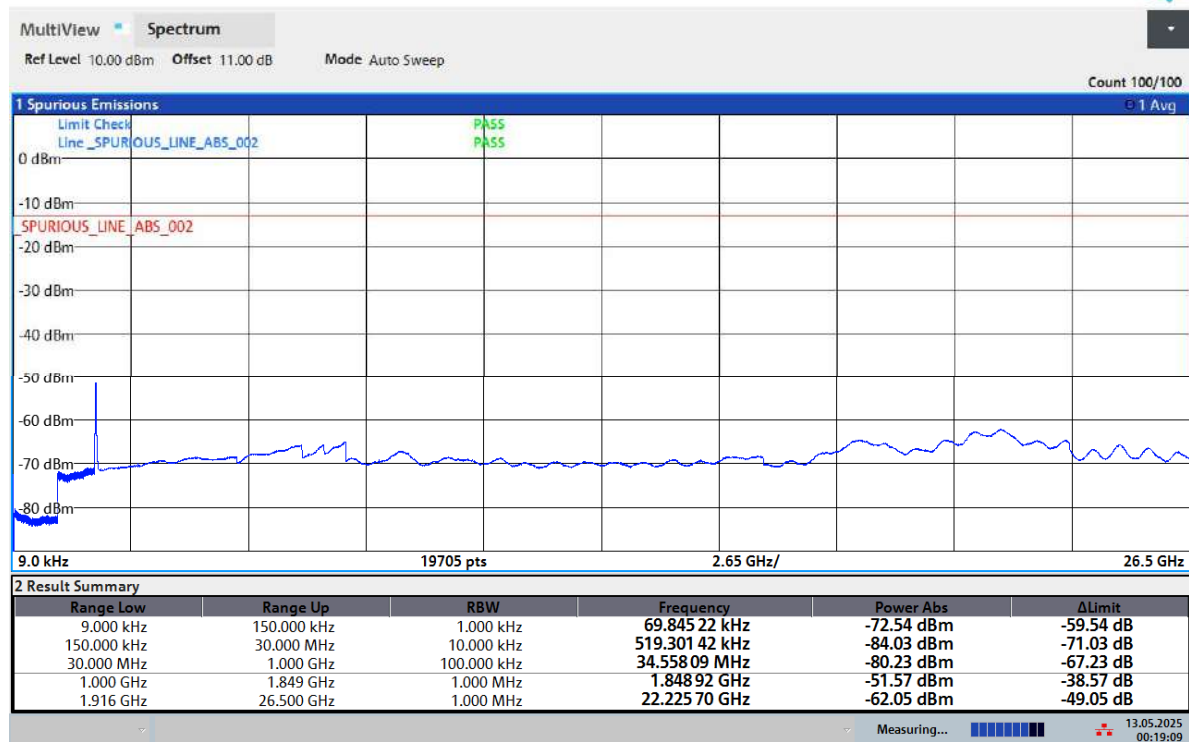
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Report Number: W6M22504-24316-P-20

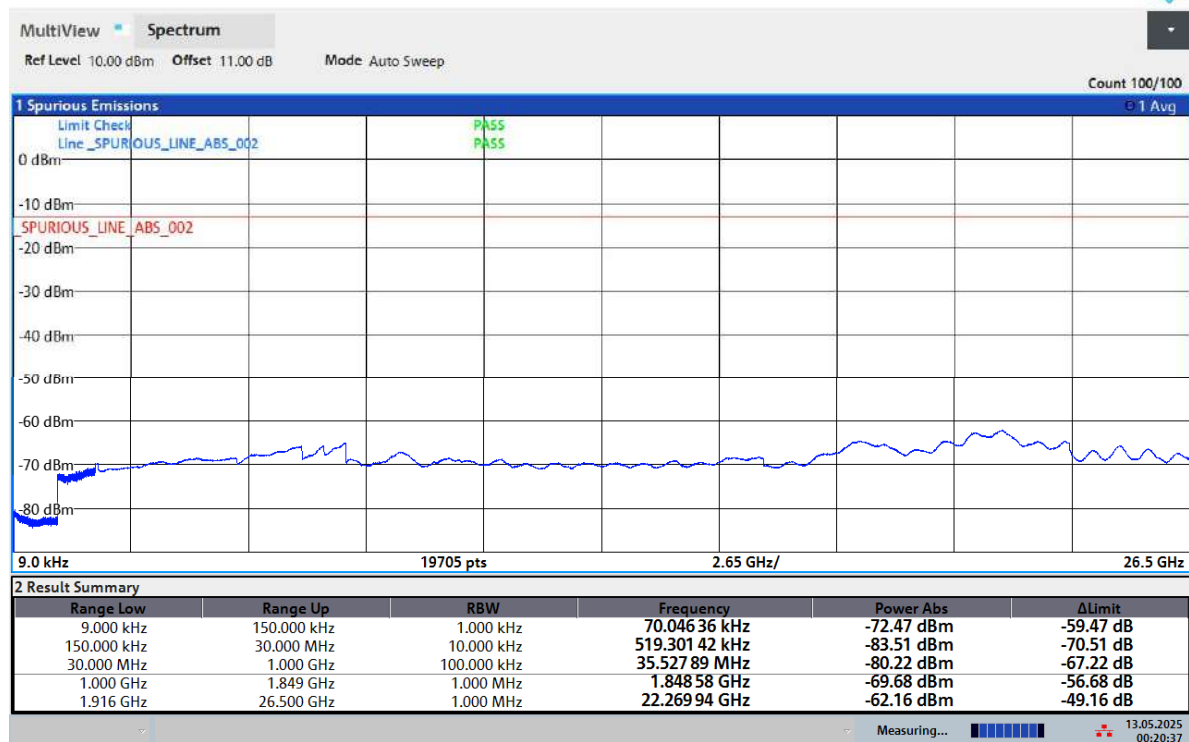
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UL_18600



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UL_18825



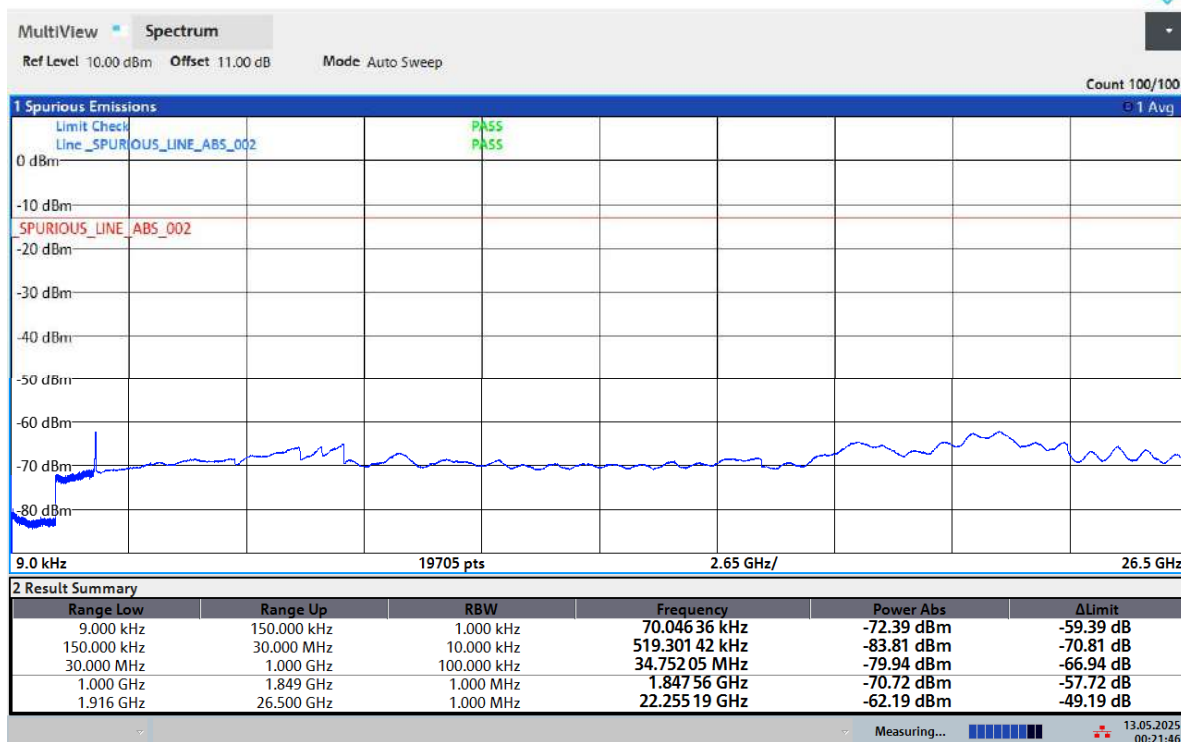
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Report Number: W6M22504-24316-P-20

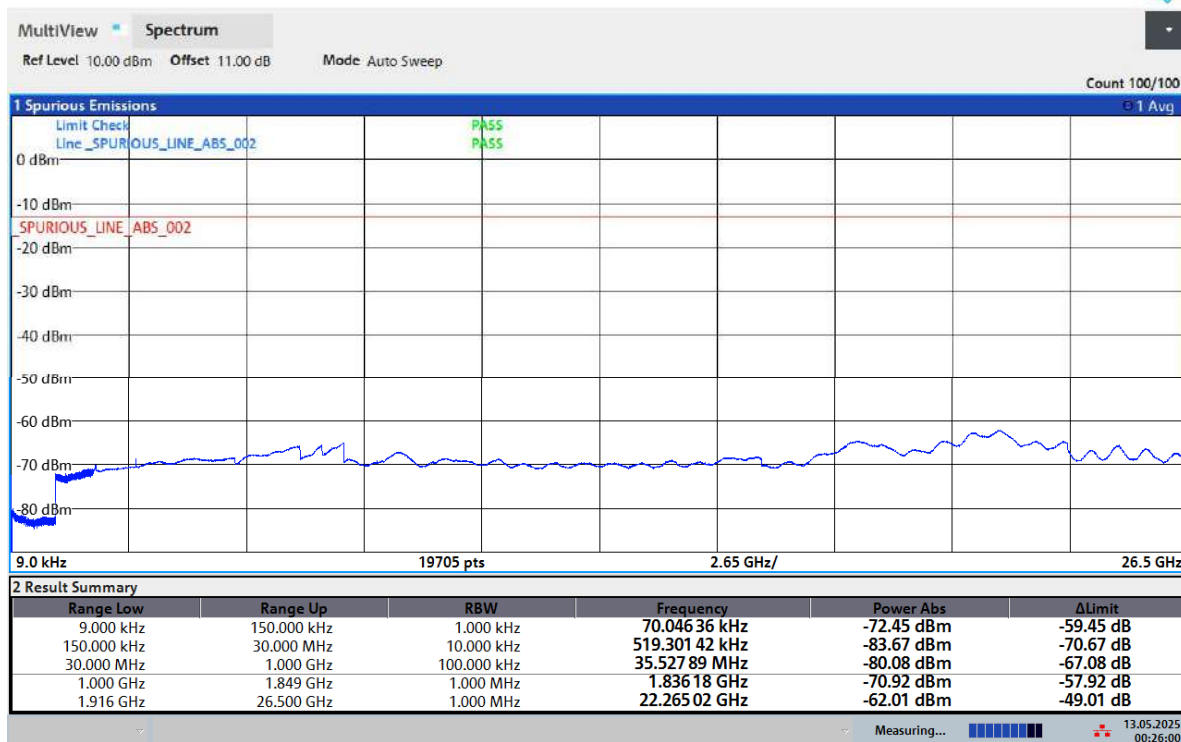
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UL_19050



00:21:46 13.05.2025

UL_NarrowBand_18600



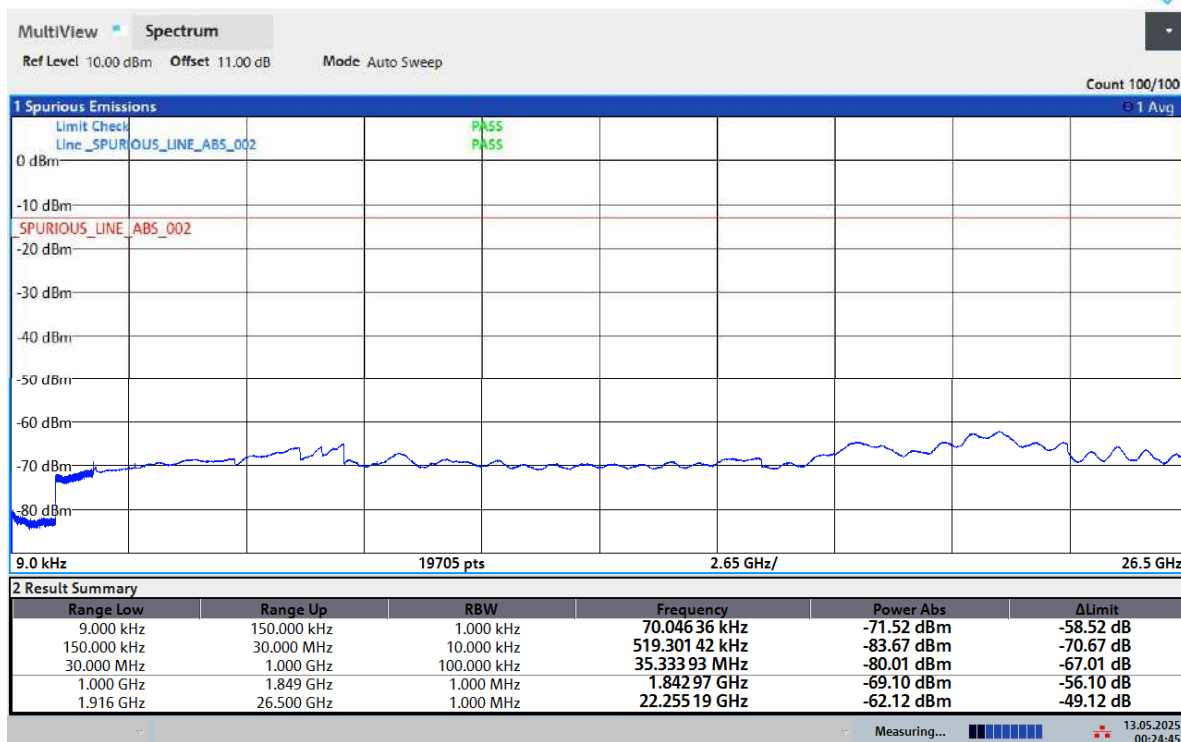
00:26:01 13.05.2025



Report Number: W6M22504-24316-P-20

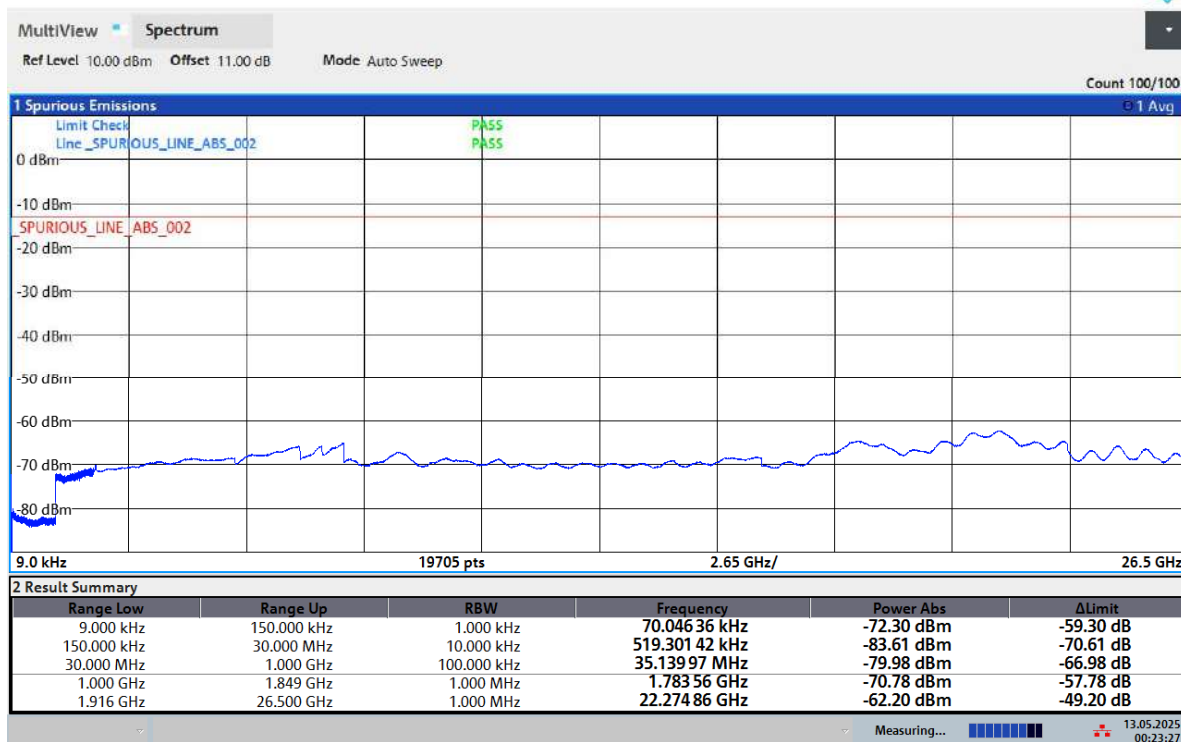
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UL_NarrowBand_18825



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UL_NarrowBand_19050

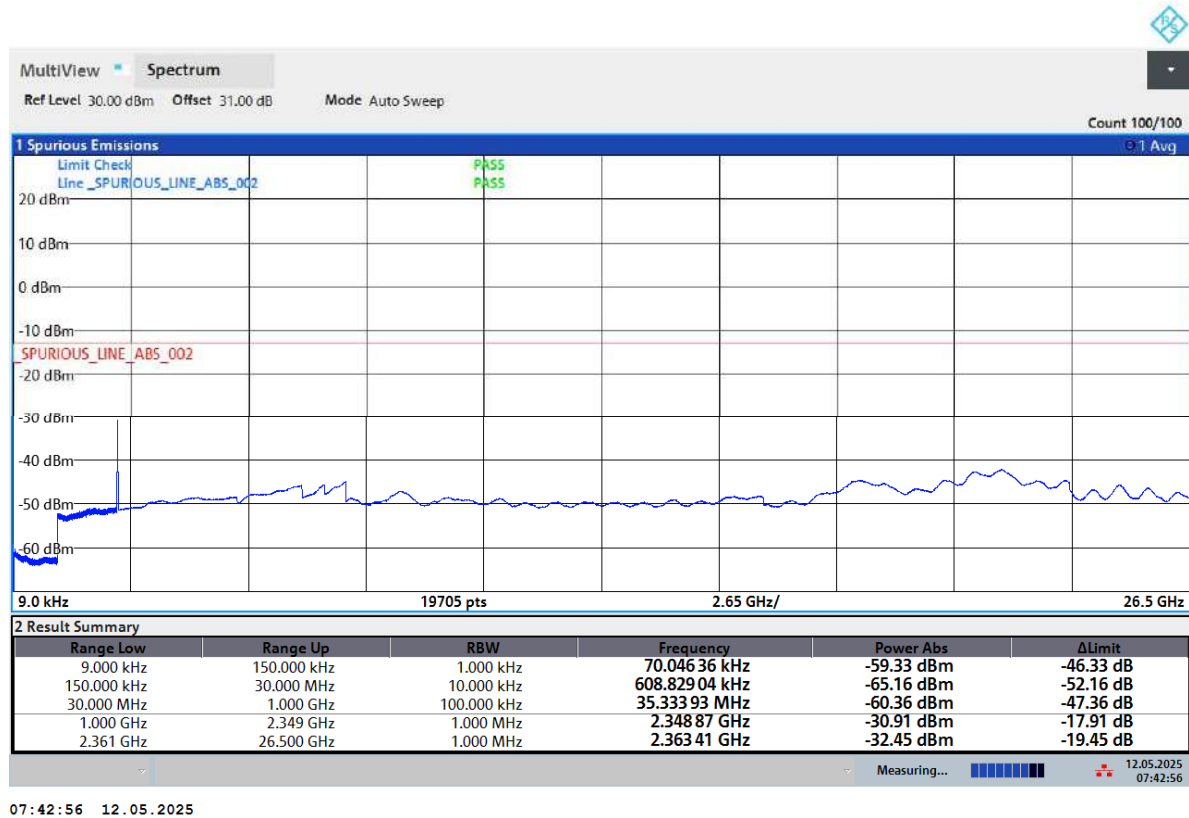


00:23:28 13.05.2025



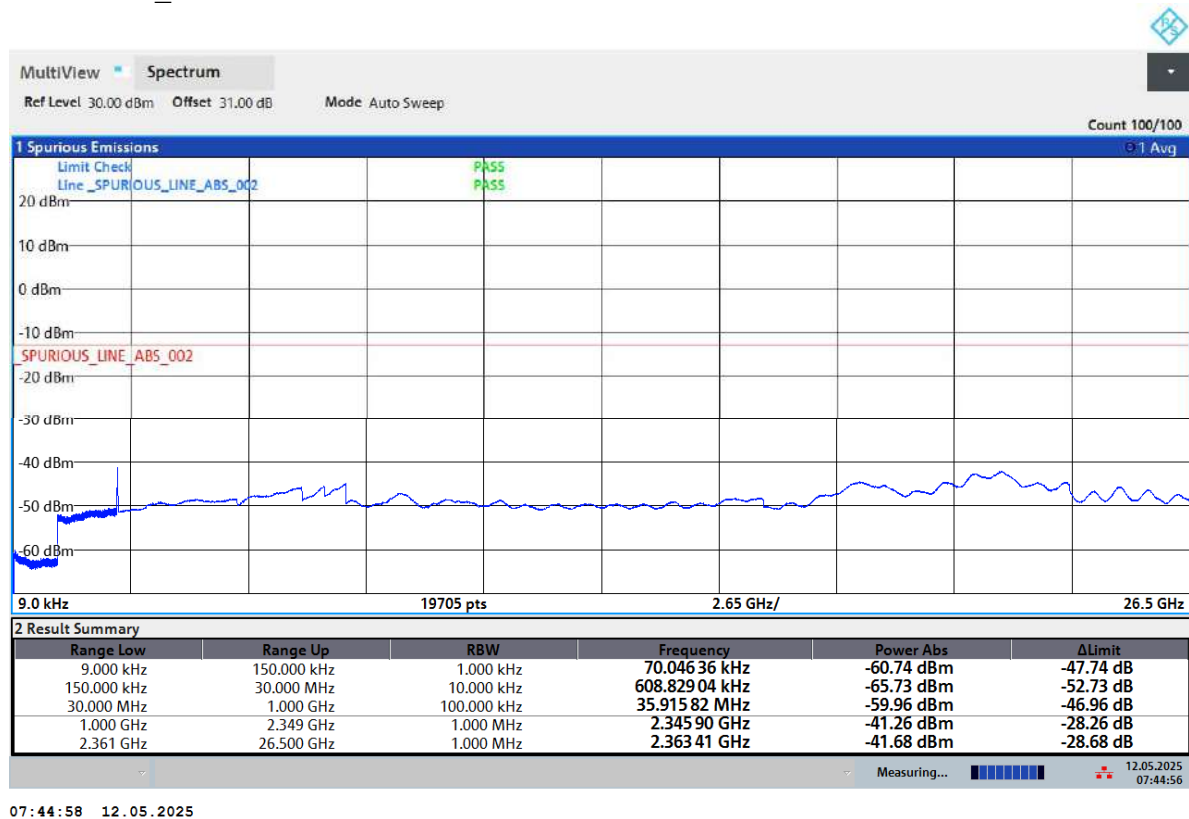
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20
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LTE Band 30
DL_2355



07:42:56 12.05.2025

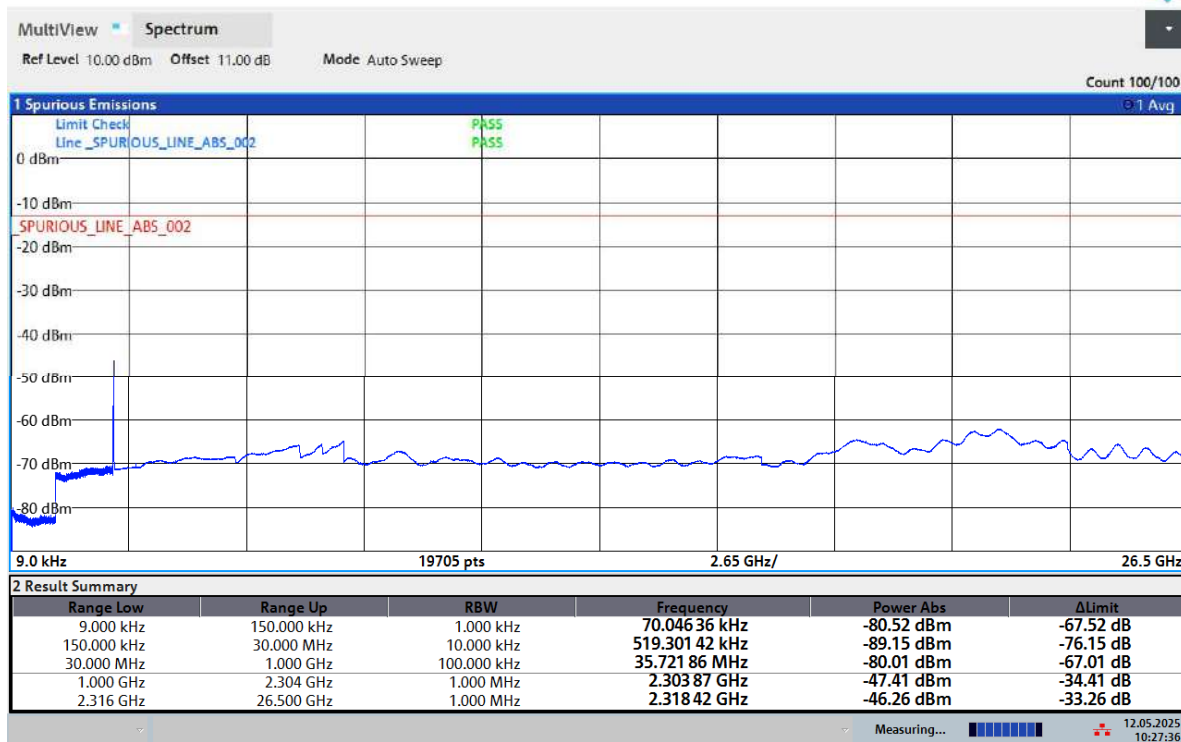
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07:44:58 12.05.2025

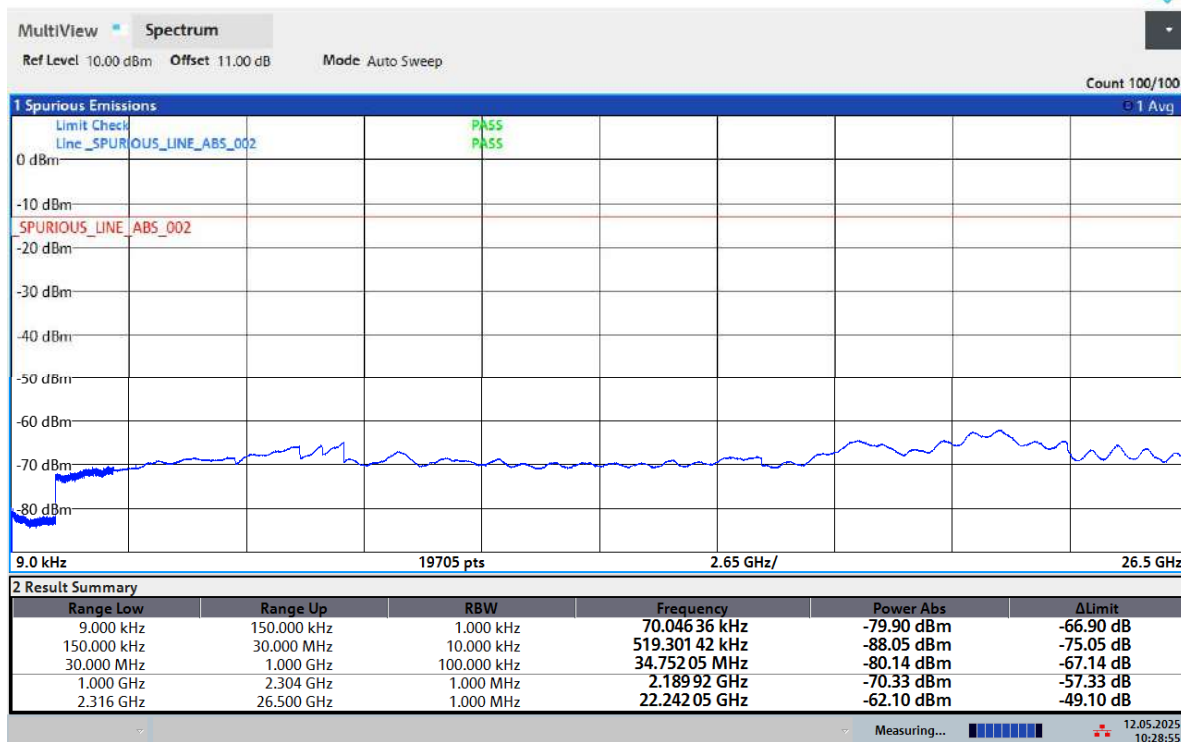


Report Number: W6M22504-24316-P-20
FCC ID: 2ASQXZONEDASTWO
UL_2310



10:27:36 12.05.2025

UL_NarrowBand_2310



10:28:55 12.05.2025



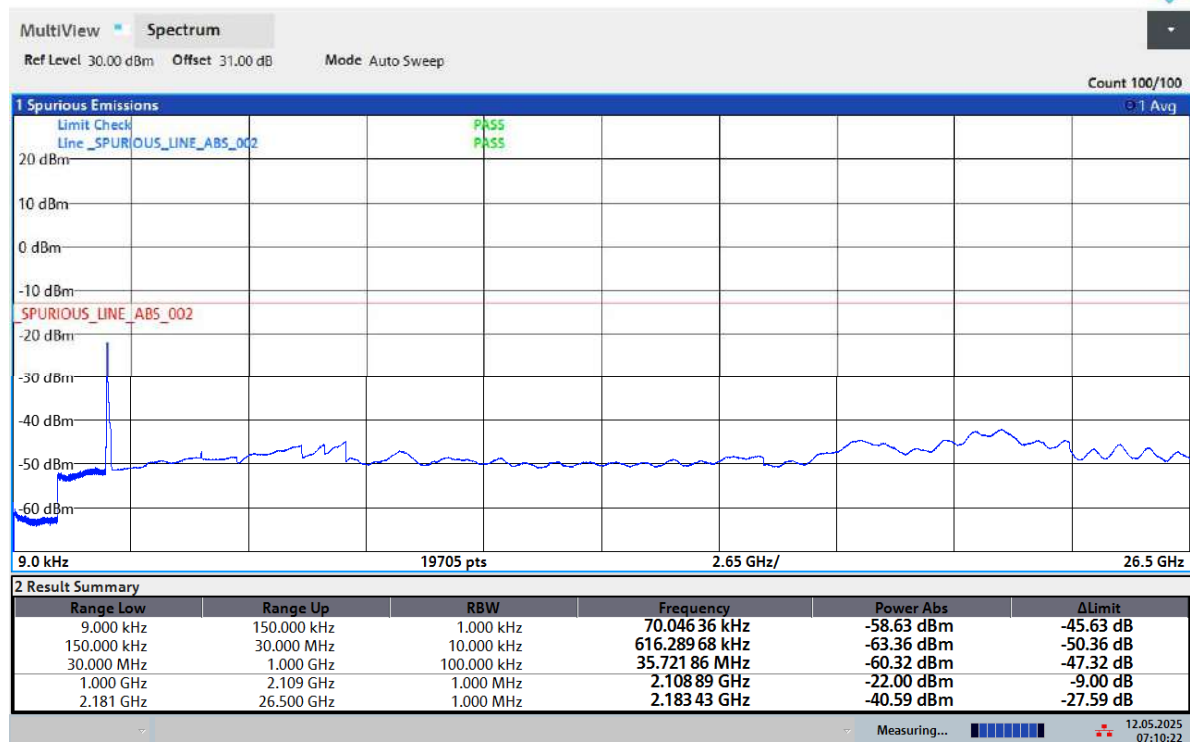
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

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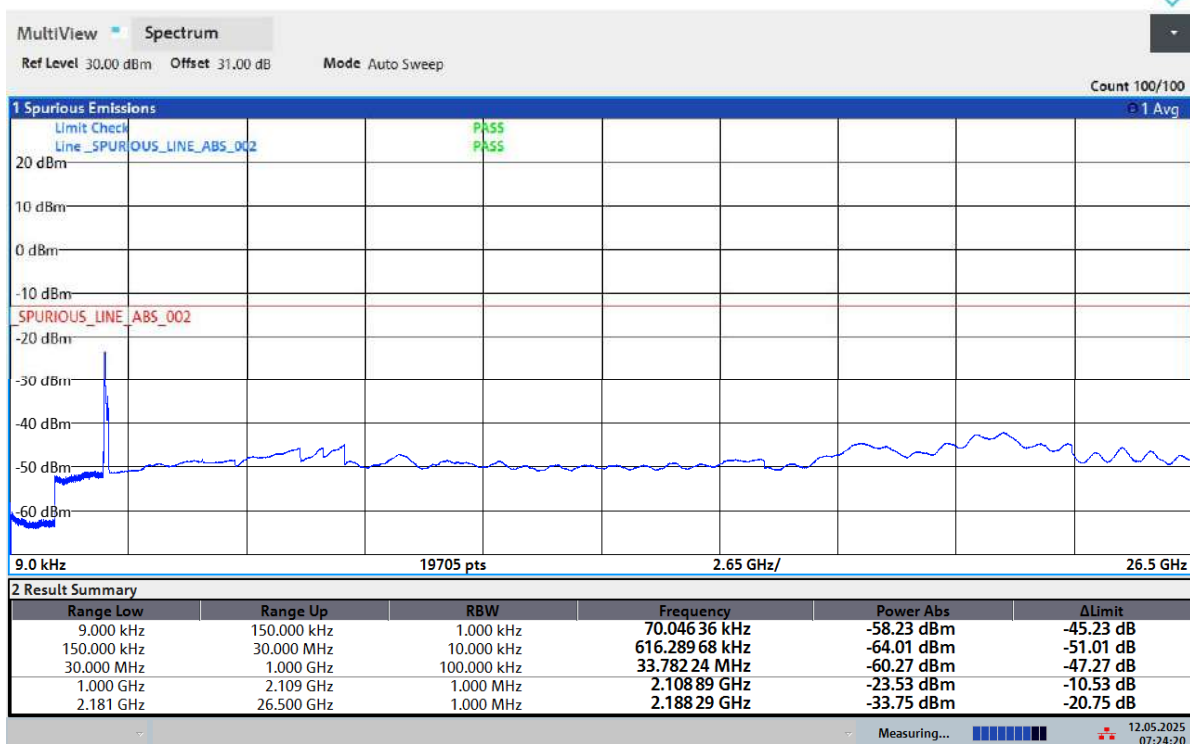
LTE Band 66

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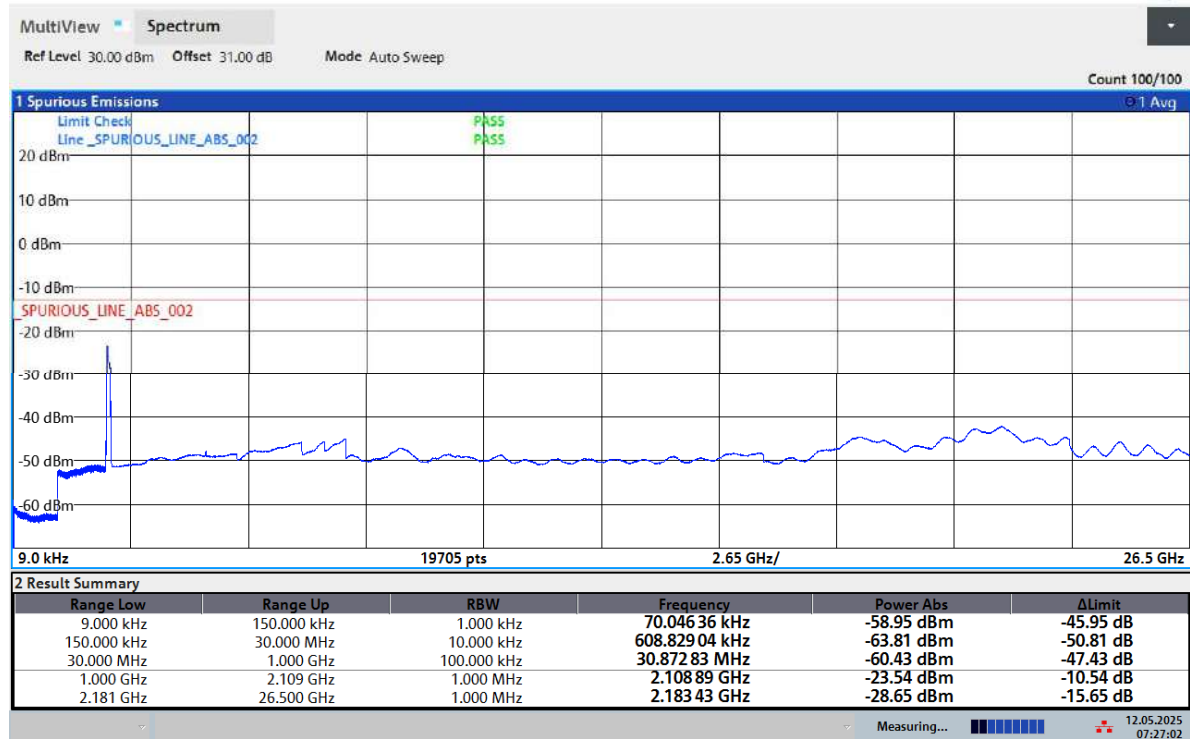
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07:24:21 12.05.2025

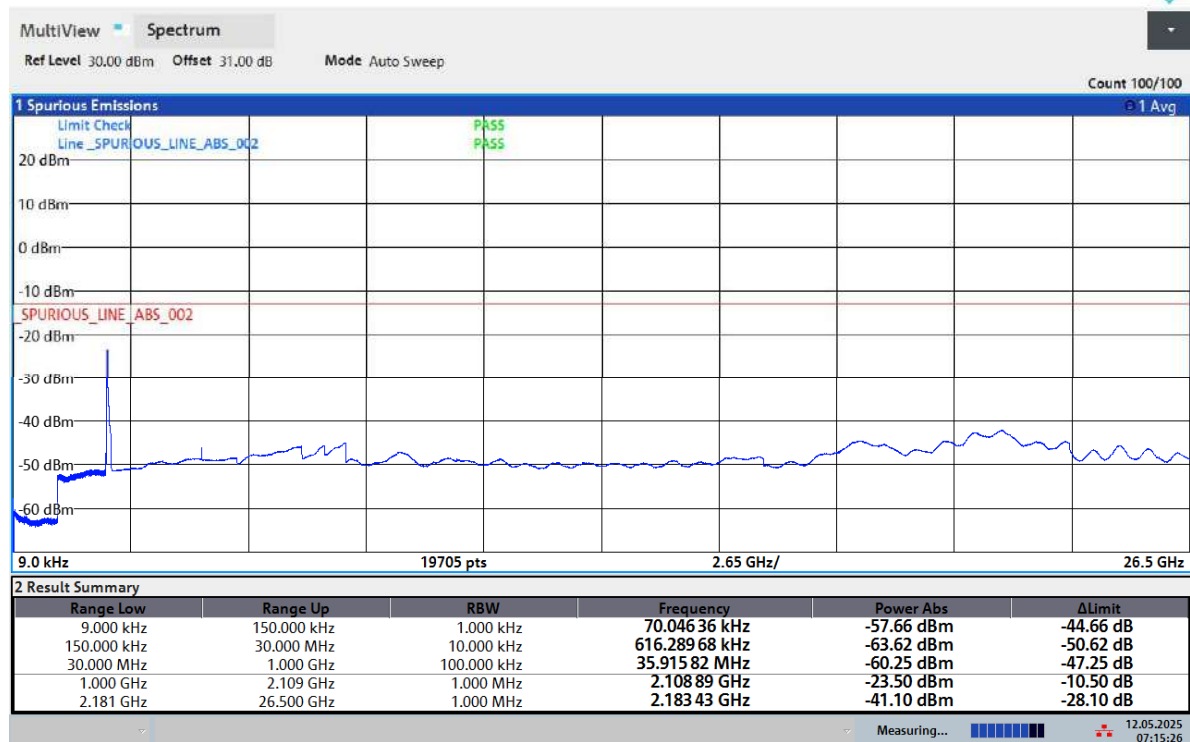


Report Number: W6M22504-24316-P-20
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DL_2170



07:27:03 12.05.2025

DL_NarrowBand_2120



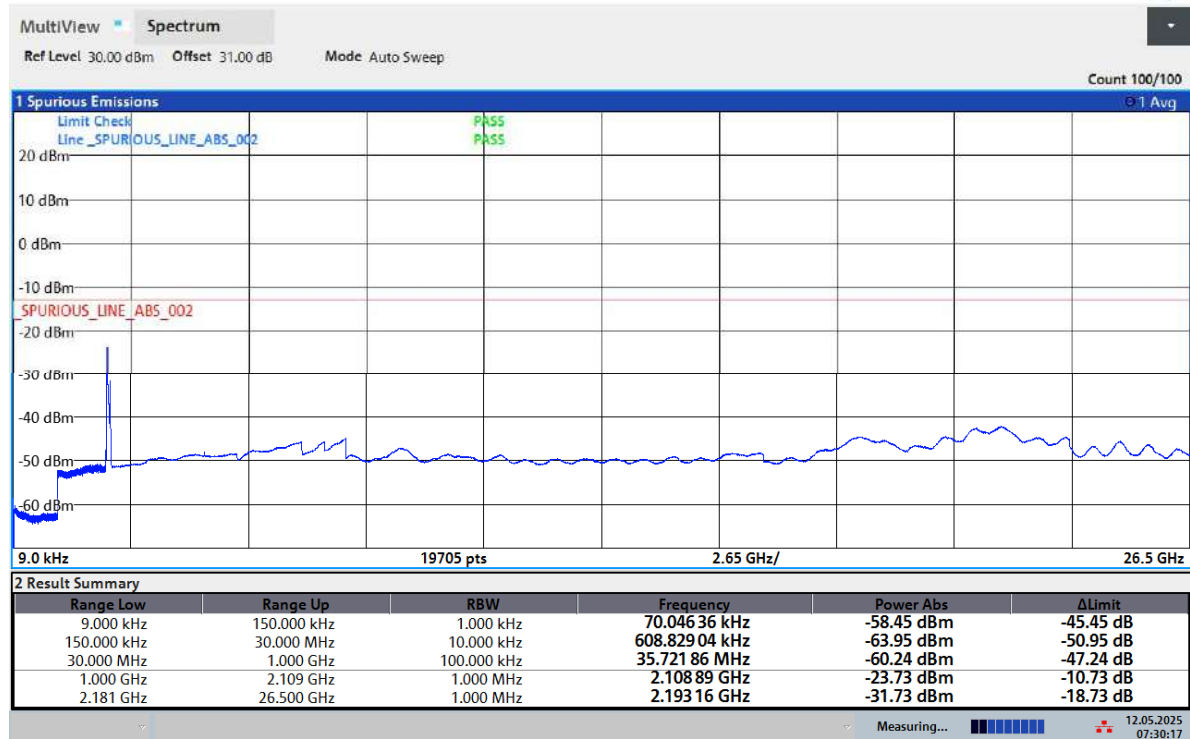
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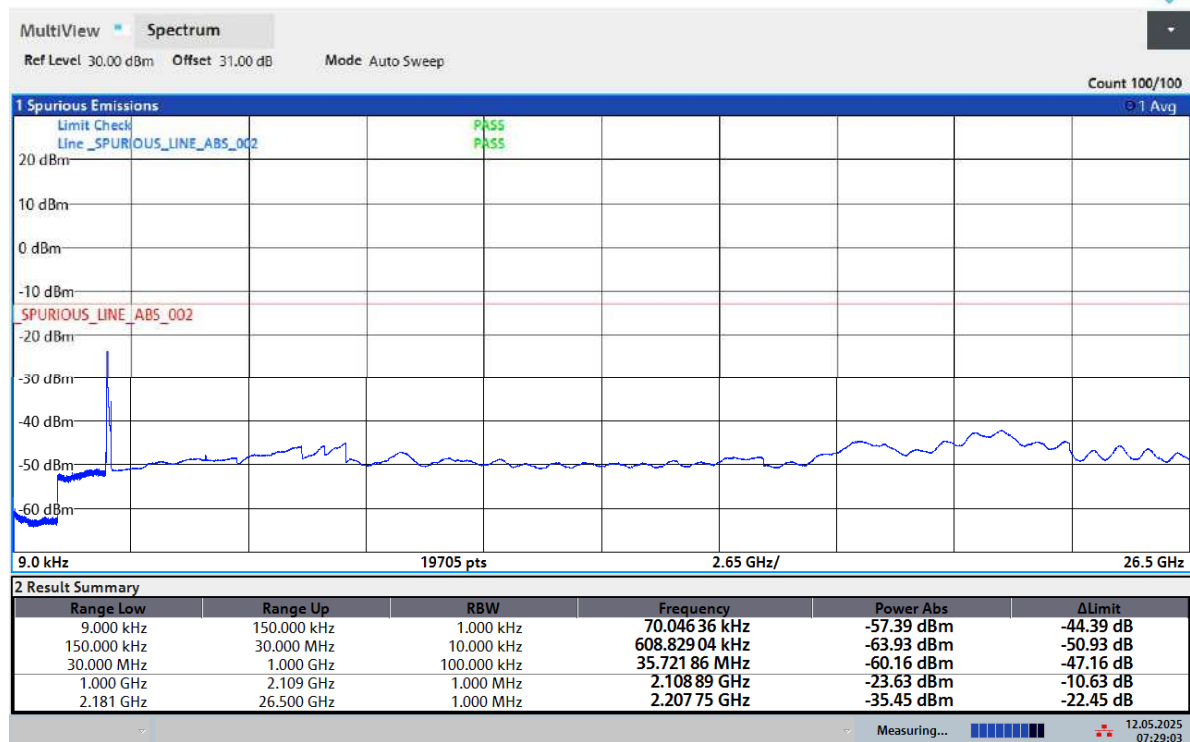
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DL_NarrowBand_2155



07:30:18 12.05.2025

DL_NarrowBand_2170



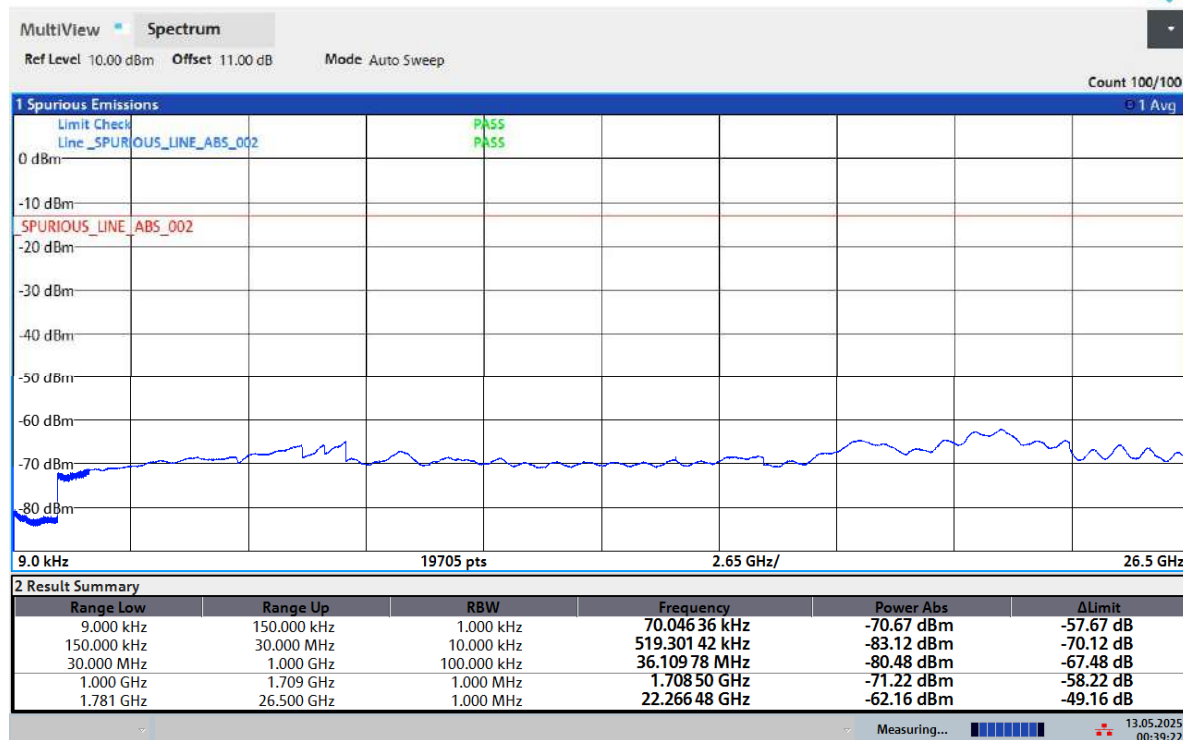
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Report Number: W6M22504-24316-P-20

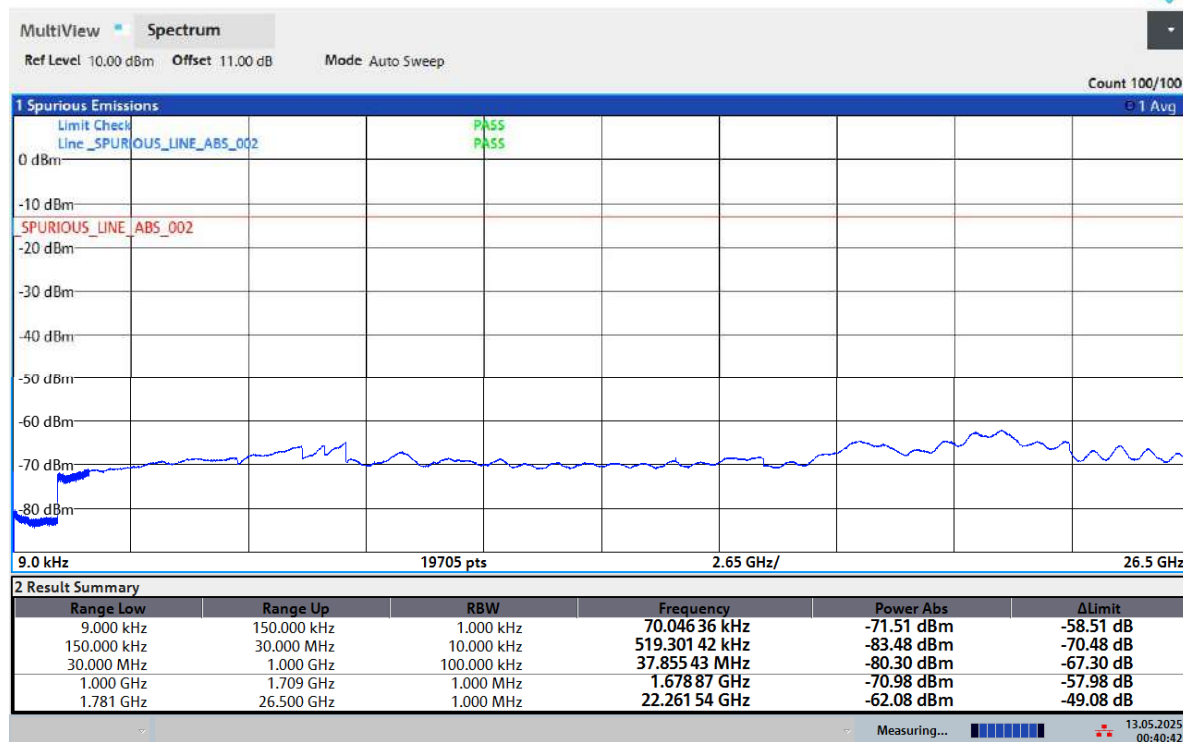
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UL_1720



00:39:23 13.05.2025

UL_1755



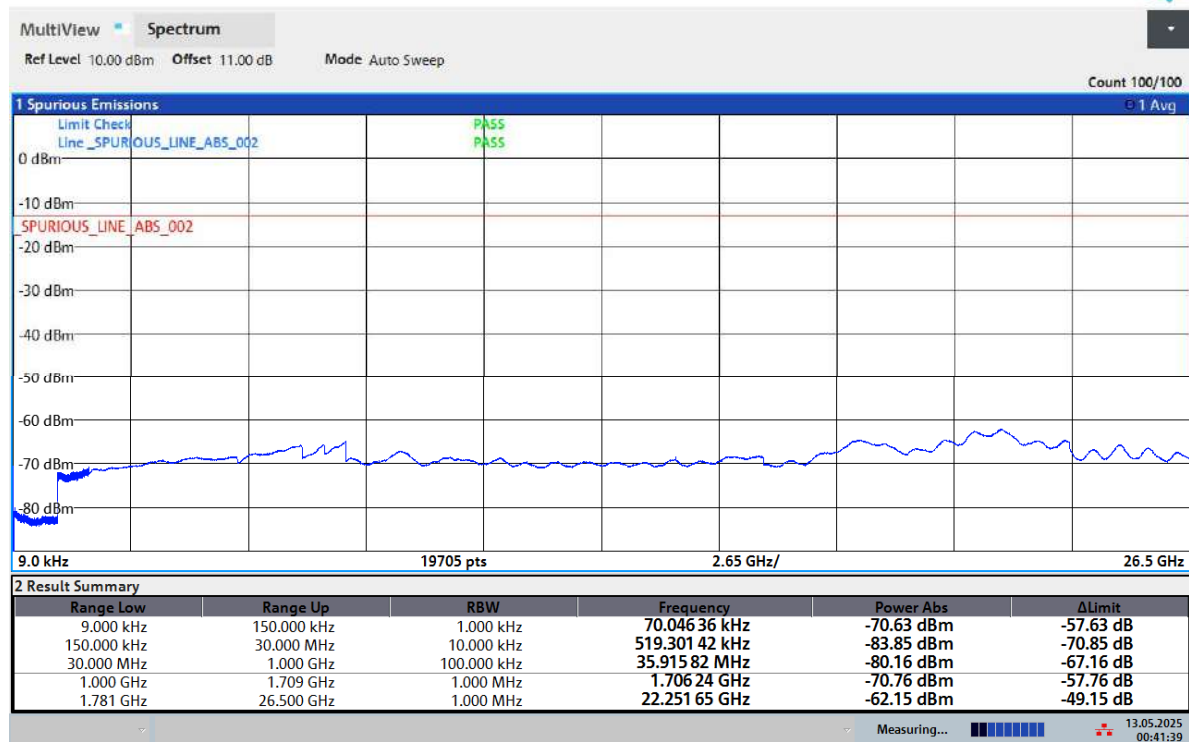
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Report Number: W6M22504-24316-P-20

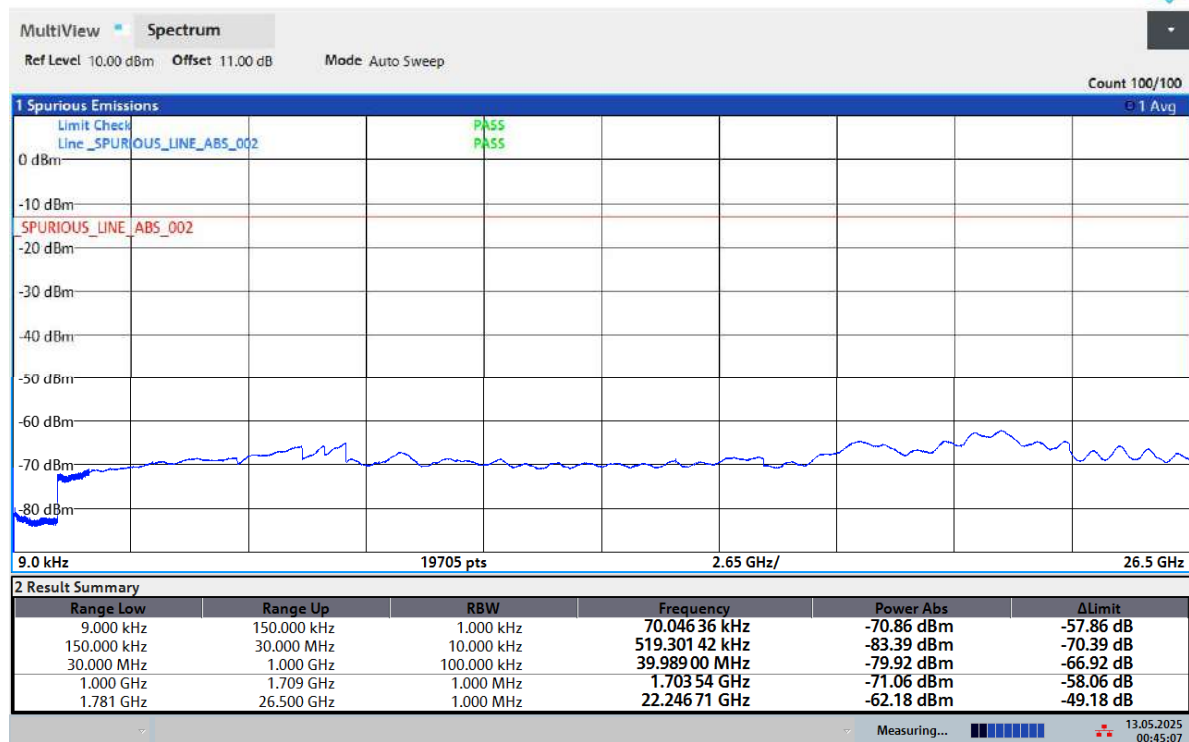
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UL_1770



00:41:39 13.05.2025

UL_NarrowBand_1720



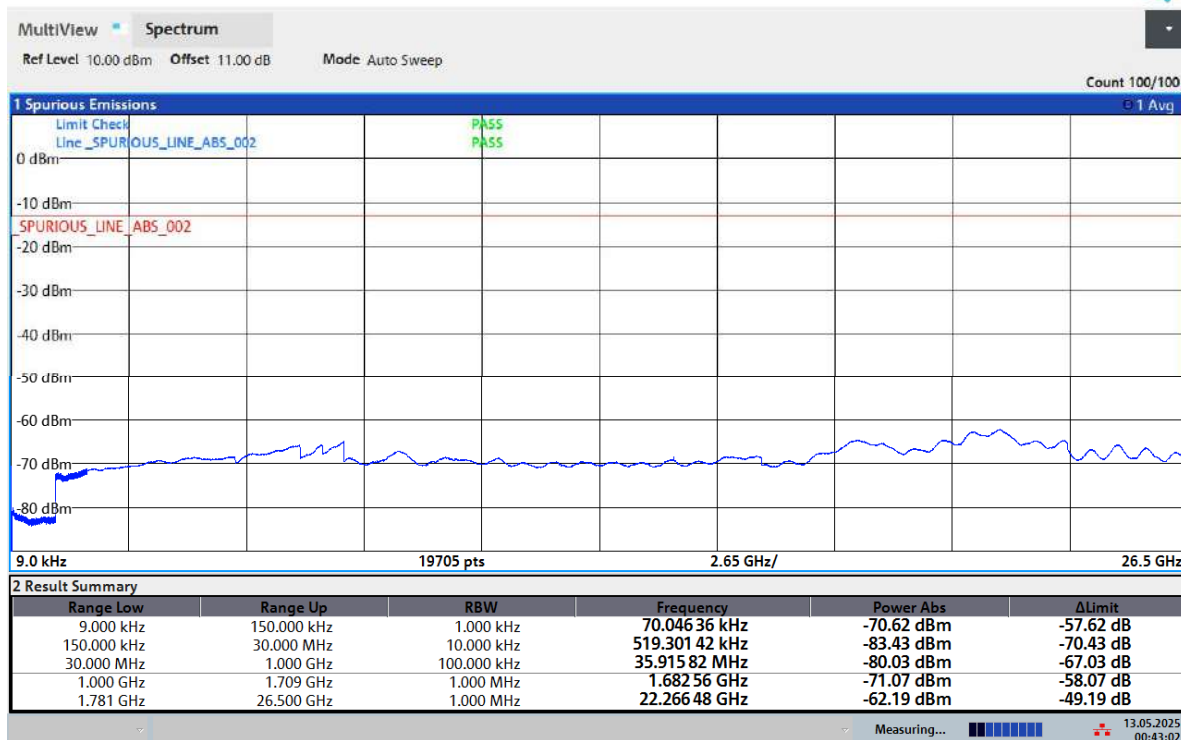
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Report Number: W6M22504-24316-P-20

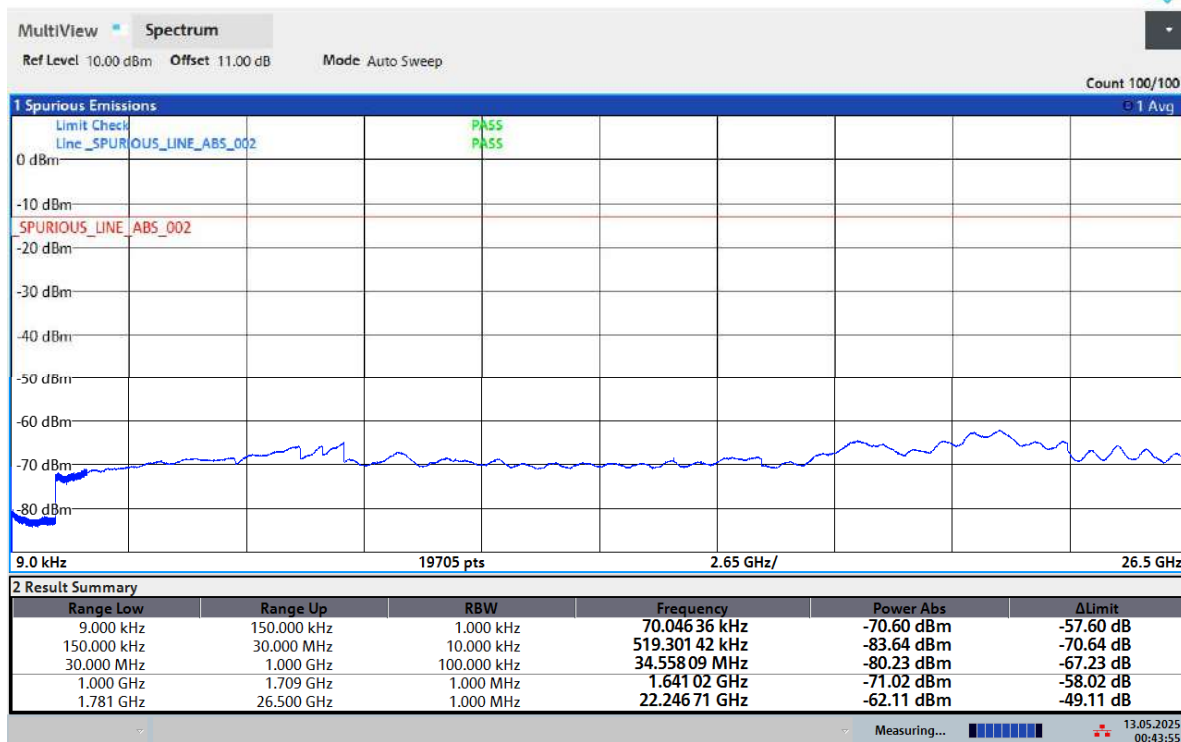
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UL_NarrowBand_1755



00:43:03 13.05.2025

UL_NarrowBand_1770



00:43:56 13.05.2025



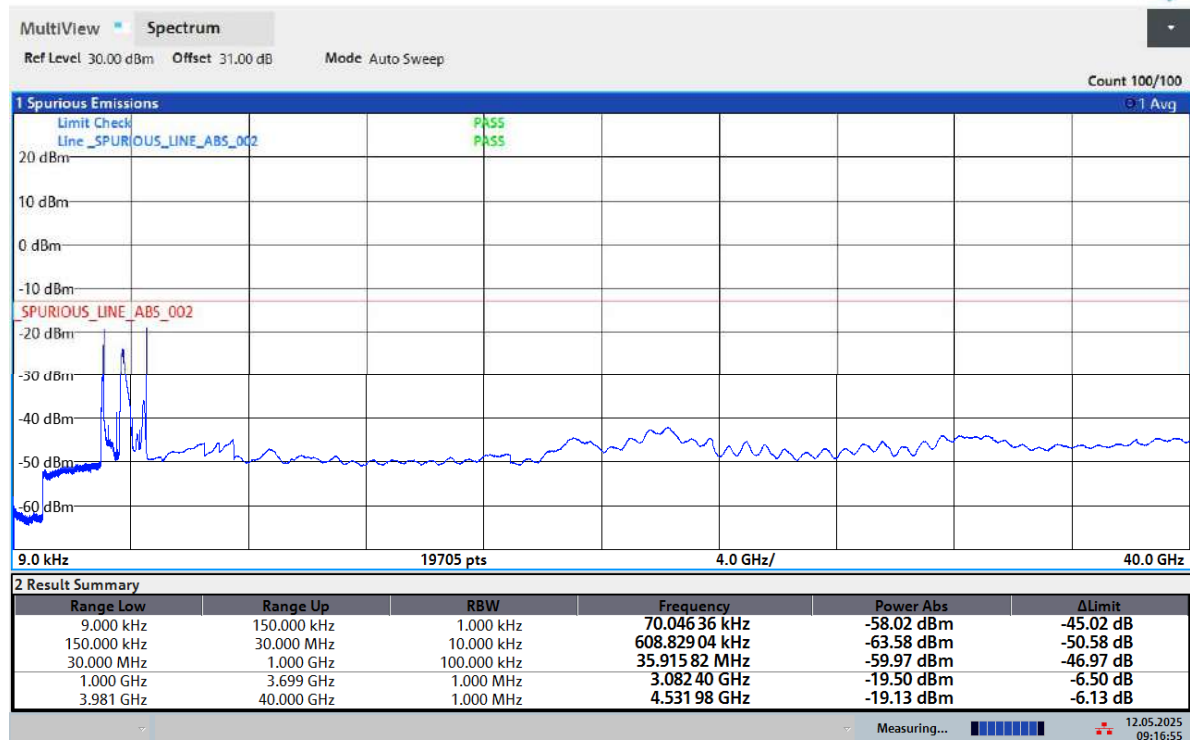
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

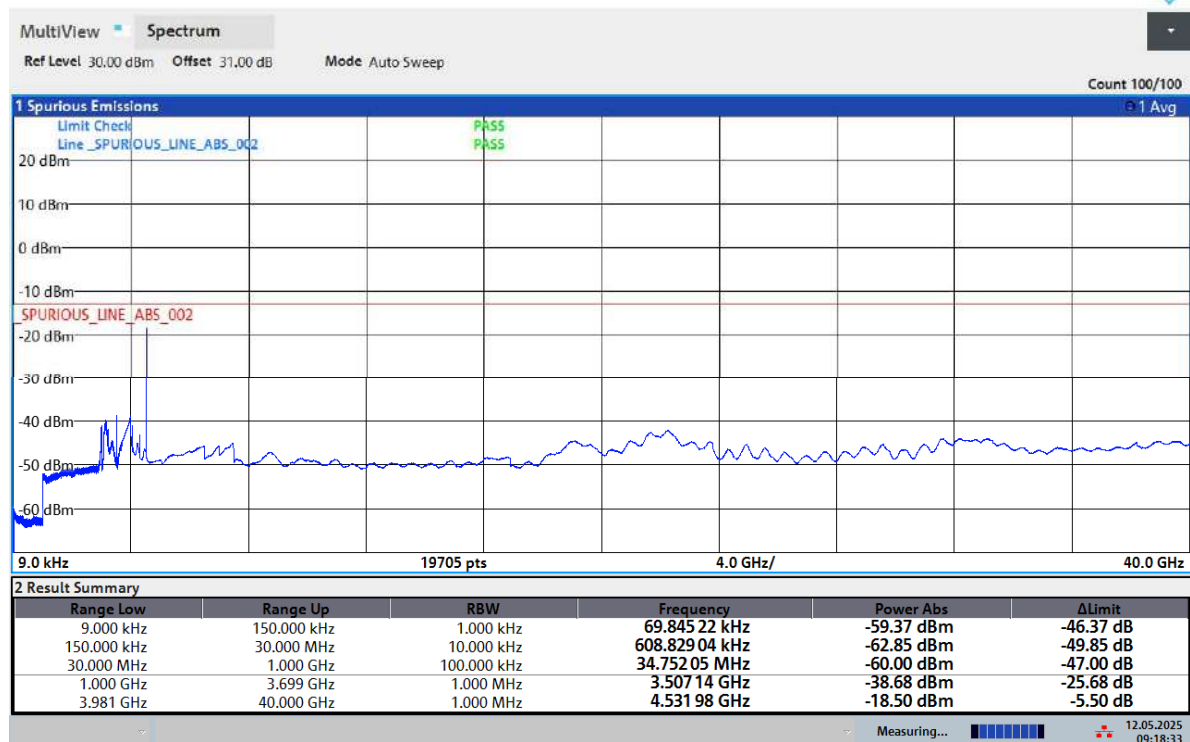
5GNR n77

DL_3750



09:16:55 12.05.2025

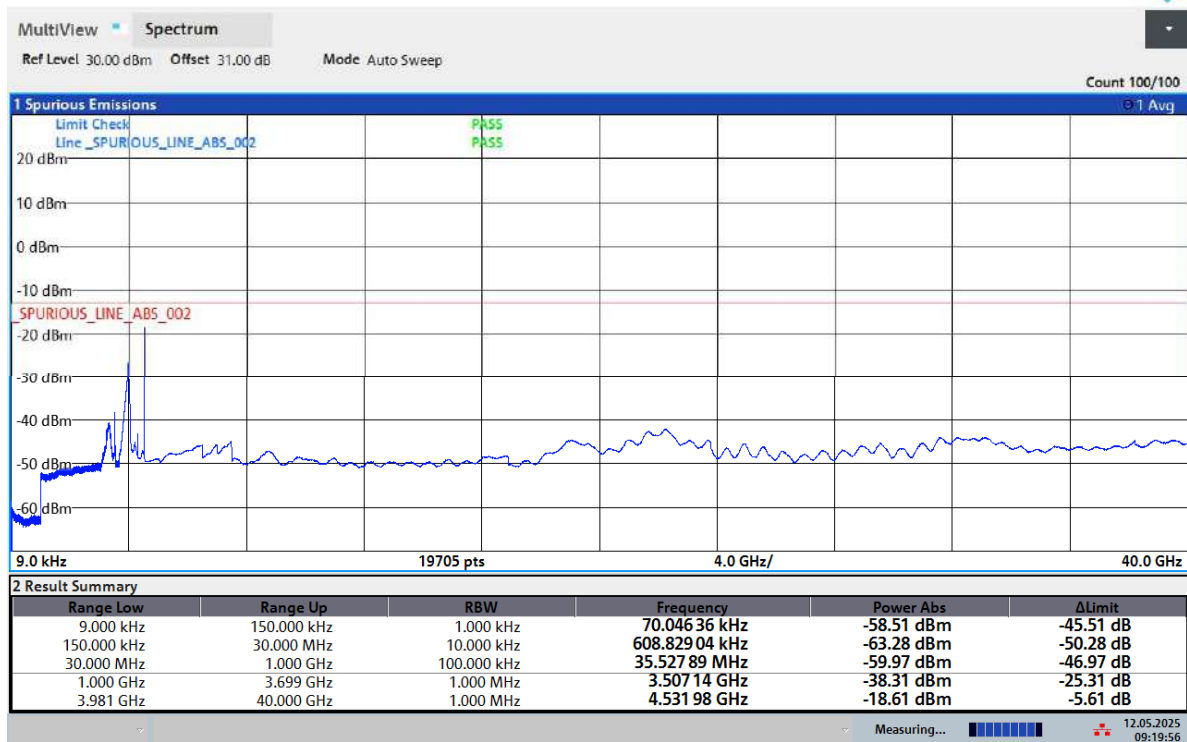
DL_3840



09:18:34 12.05.2025



Report Number: W6M22504-24316-P-20
FCC ID: 2ASQXZONEDASTWO
DL_3930



09:19:57 12.05.2025

DL_NarrowBand_3750



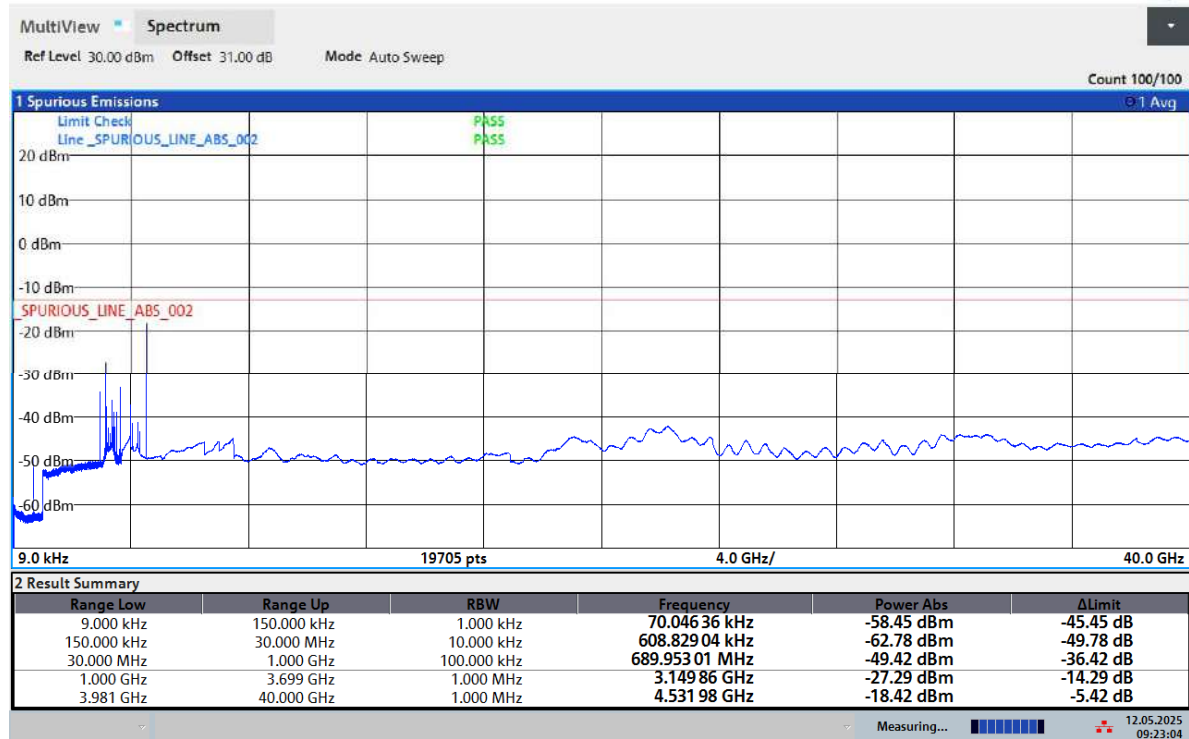
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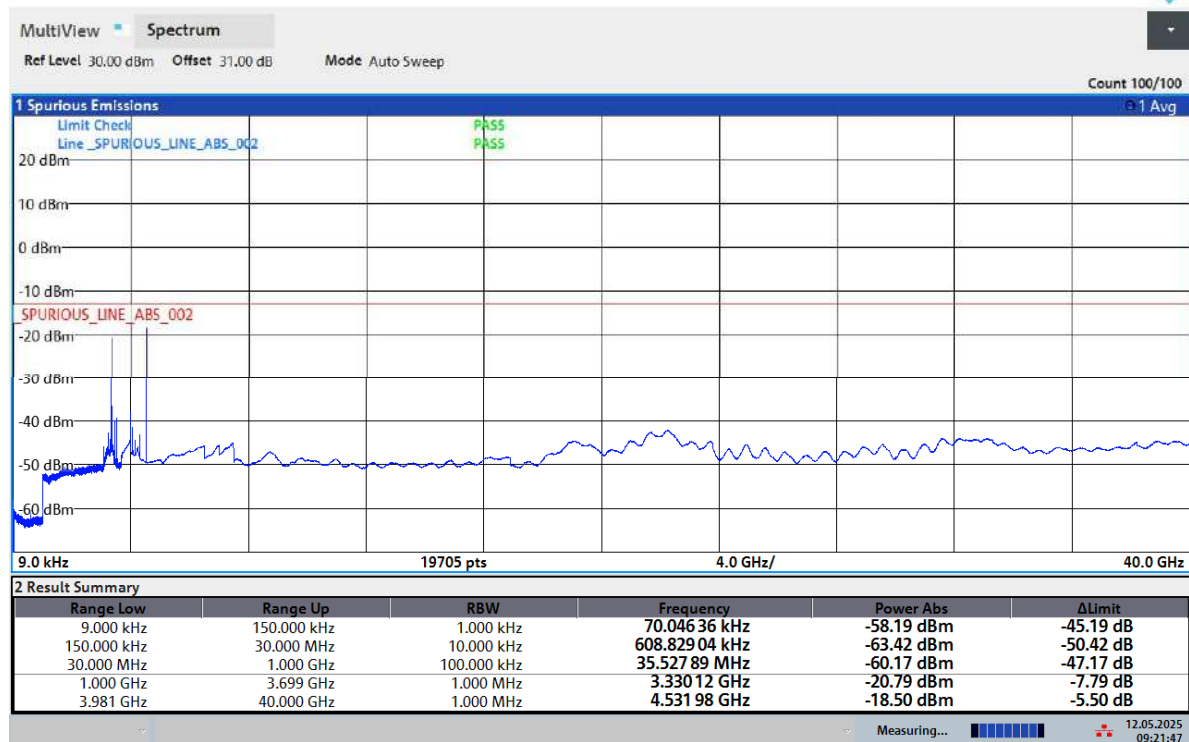
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DL_NarrowBand_3840



09:23:05 12.05.2025

DL_NarrowBand_3930



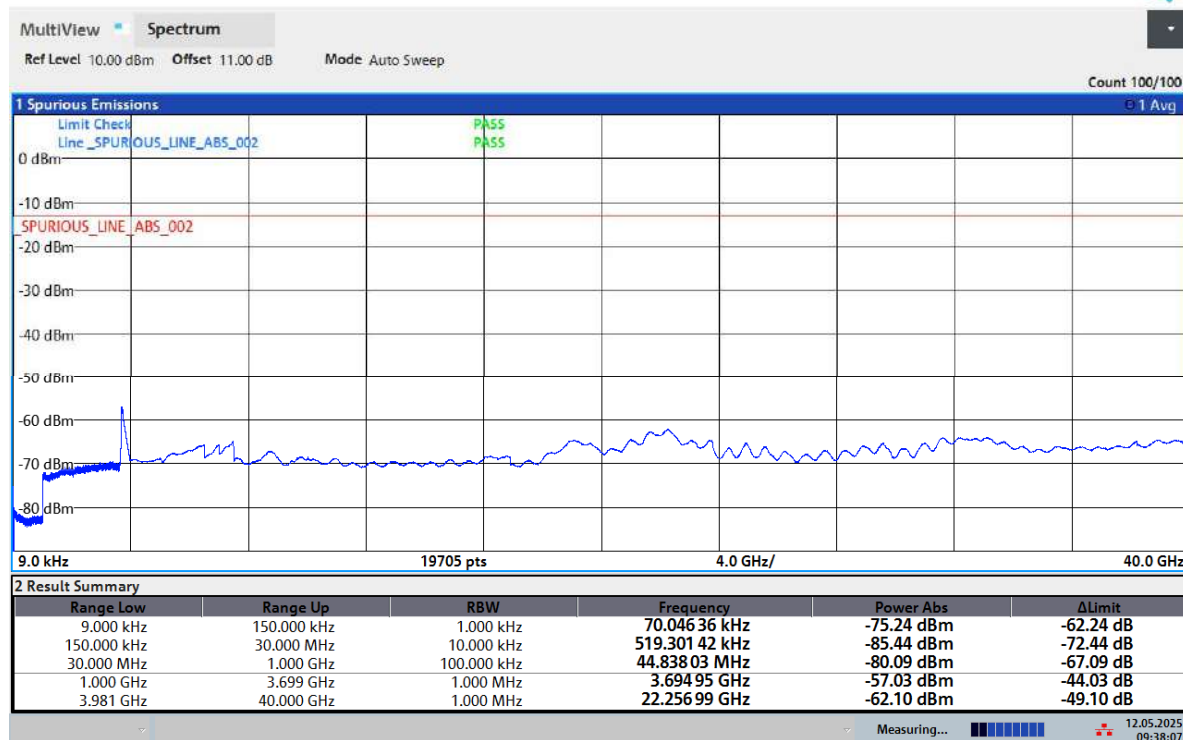
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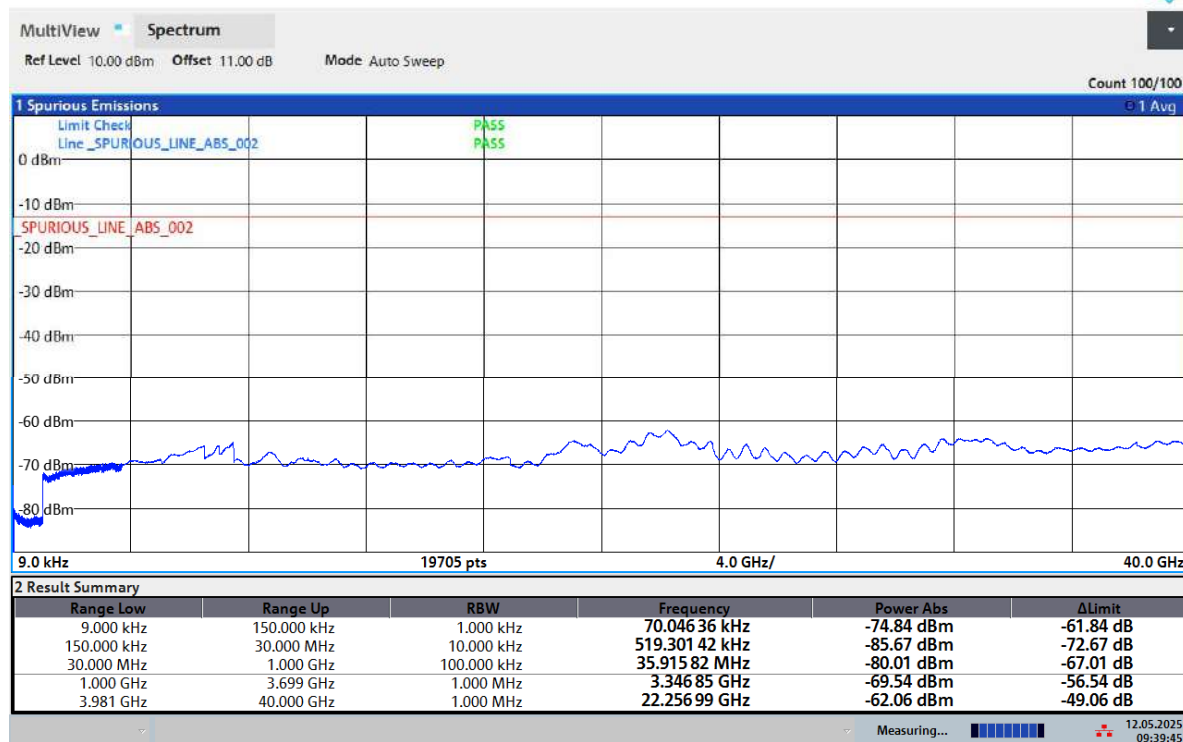
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09:38:08 12.05.2025

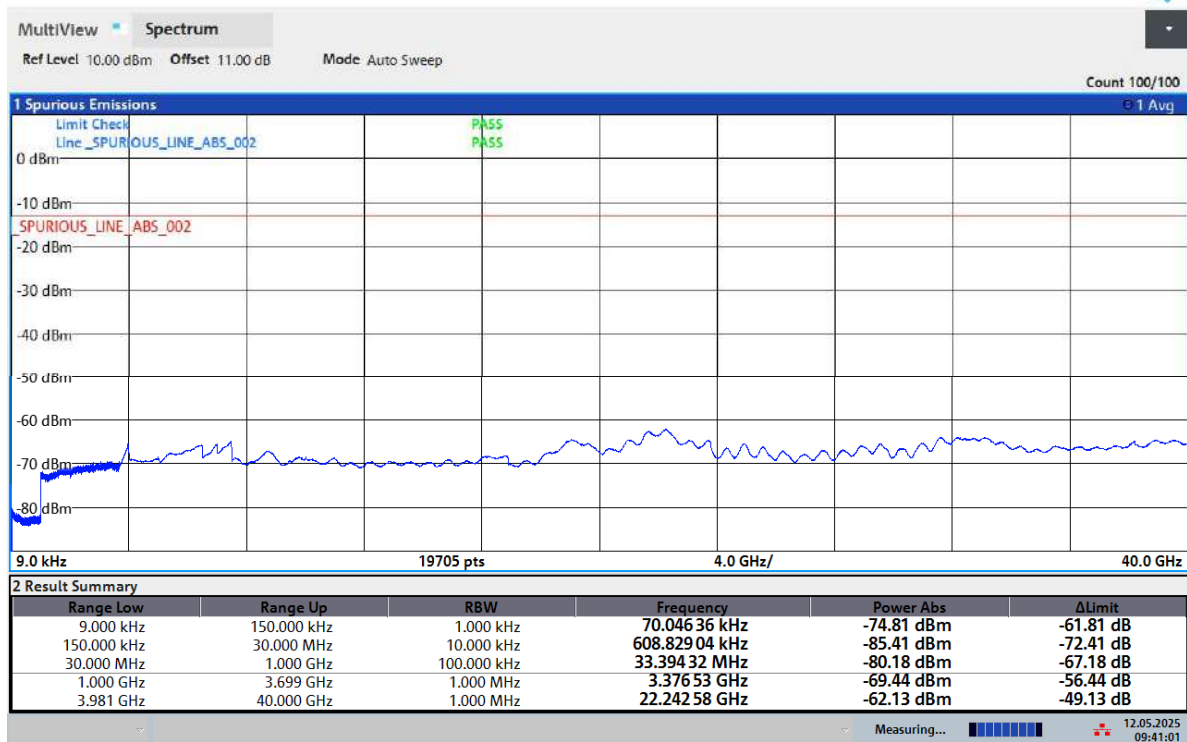
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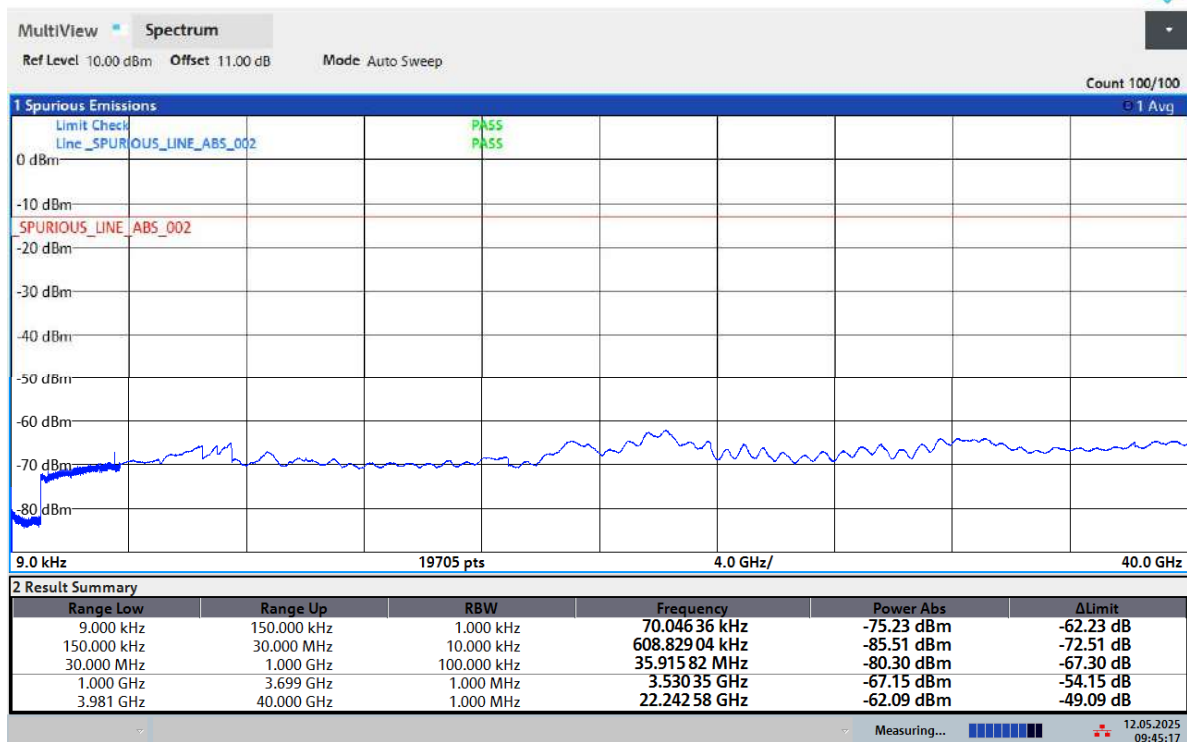


Report Number: W6M22504-24316-P-20
FCC ID: 2ASQXZONEDASTWO
UL_3930



09:41:01 12.05.2025

UL_NarrowBand_3750



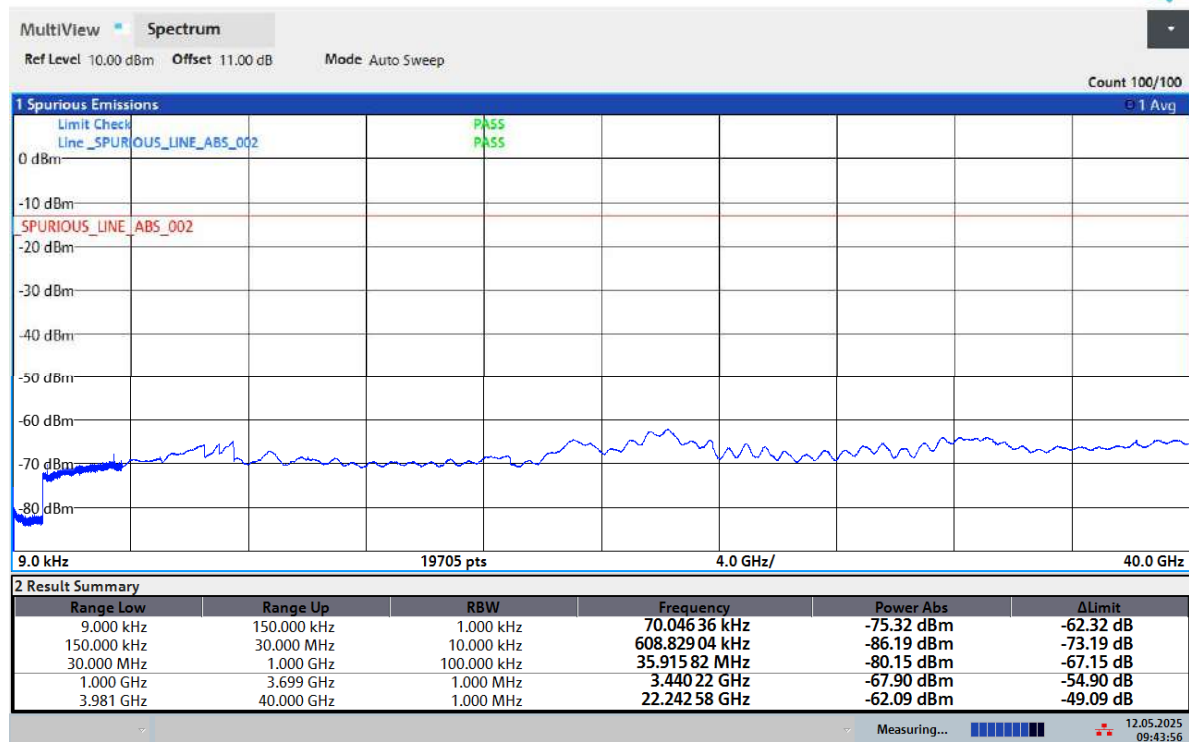
09:45:18 12.05.2025



Report Number: W6M22504-24316-P-20

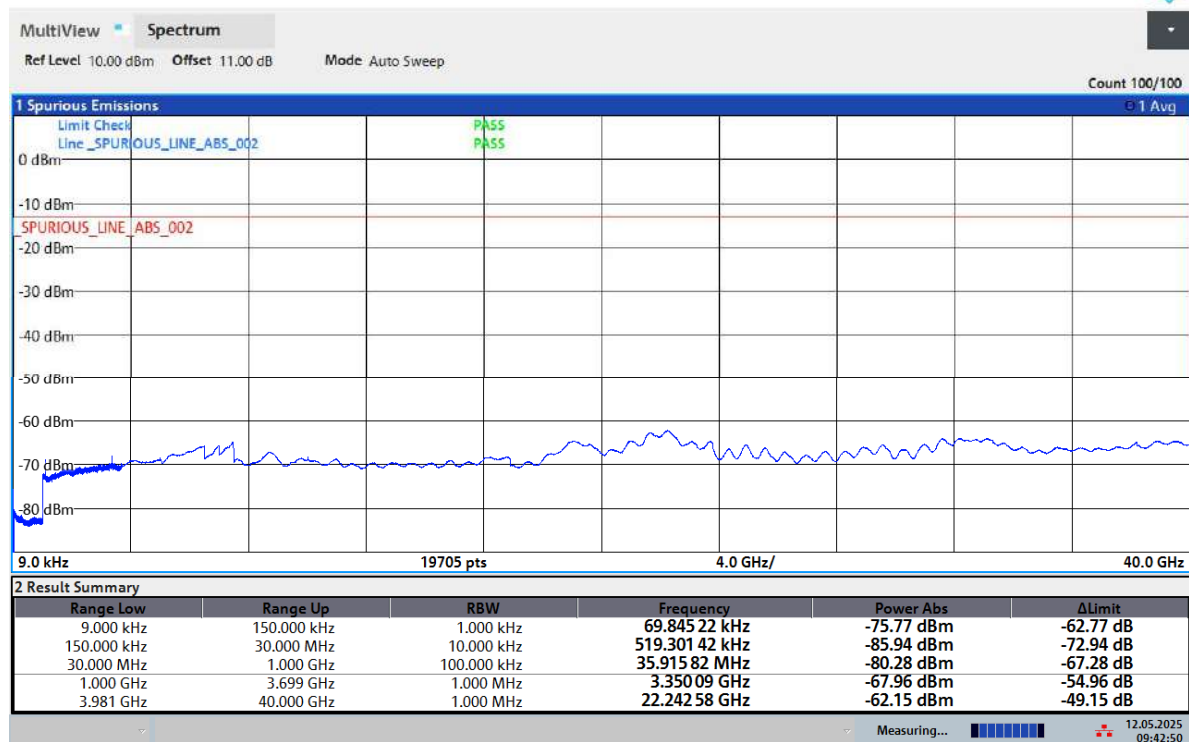
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UL_NarrowBand_3840



09:43:57 12.05.2025

UL_NarrowBand_3930



09:42:51 12.05.2025



Report Number: W6M22504-24316-P-20

FCC ID: 2ASQXZONEDASTWO

8. Frequency stability measurements

8.1 Test procedure

Frequency stability measurements are required by Section 2.1055 of the FCC rules. However, this requirement presumes that the EUT processes an input signal in a manner that can influence the output signal frequency/frequencies (i.e., most signal boosters do not incorporate an oscillator). If this is not the case (i.e., the amplifier, booster, or repeater does not alter the input signal in any way), then a frequency stability test may not be required.

When performing frequency stability measurements on these types of devices, the instability associated with the EUT must be isolated from any frequency instability associated with the measurement instrumentation. One method for realizing this isolation is to connect the reference clock input of the signal generator to the reference output of the frequency counter to confirm that any frequency instability is associated with the EUT, but is not due to differences between the reference oscillators internal to the measurement instrumentation.

8.2 Test Results

Test date: May 19, 2025

Temperature: 26.0°C

Humidity: 49.0%

Tester: Sora

LTE BAND12 QPSK 10MHz FRB - Up Link				
707.5MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	15.00	0.021	±2.5
	-20	25.00	0.035	
	-10	6.00	0.008	
	0	11.00	0.016	
	10	3.00	0.004	
	20	-9.00	-0.013	
	30	-5.00	-0.007	
	40	-18.00	-0.025	
	50	-23.00	-0.033	
138Vac	25	-5.00	-0.007	
102Vac	25	-16.00	-0.023	
LTE BAND12 QPSK 10MHz FRB - Down Link				
737.5MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	28.00	0.038	±2.5
	-20	35.00	0.047	
	-10	12.00	0.016	
	0	22.00	0.030	
	10	7.00	0.009	
	20	-19.00	-0.026	
	30	-6.00	-0.008	
	40	-11.00	-0.015	
	50	-25.00	-0.034	
138Vac	25	-7.00	-0.009	
102Vac	25	6.00	0.008	
LTE BAND13 QPSK 10MHz FRB - Up Link				
782MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-23.00	-0.029	±2.5



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FCC ID: 2ASQXZONEDASTWO

	-20	-28.00	-0.036	
	-10	-14.00	-0.018	
	0	-19.00	-0.024	
	10	-6.00	-0.008	
	20	-15.00	-0.019	
	30	-10.00	-0.013	
	40	5.00	0.006	
	50	12.00	0.015	
	60		0.000	
	70		0.000	
138Vac	25	-16.00	-0.020	
102Vac	25	-8.00	-0.010	
LTE BAND13 QPSK 10MHz FRB - Down Link				
751MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-38.00	-0.051	±2.5
	-20	-25.00	-0.033	
	-10	-34.00	-0.045	
	0	-15.00	-0.020	
	10	-20.00	-0.027	
	20	-9.00	-0.012	
	30	-7.00	-0.009	
	40	9.00	0.012	
	50	5.00	0.007	
	60		0.000	
	70		0.000	
138Vac	25	-5.00	-0.007	
102Vac	25	-11.00	-0.015	
LTE BAND25 QPSK 10MHz FRB - Up Link				
1882.5MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	15.00	0.008	±2.5
	-20	11.00	0.006	
	-10	24.00	0.013	
	0	8.00	0.004	
	10	16.00	0.008	
	20	7.00	0.004	
	30	-8.00	-0.004	
	40	-25.00	-0.013	
	50	-16.00	-0.008	
	60		0.000	
	70		0.000	
138Vac	25	17.00	0.009	
102Vac	25	6.00	0.003	
LTE BAND25 QPSK 10MHz FRB - Down Link				
1962.5MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	8.00	0.004	±2.5
	-20	34.00	0.017	
	-10	42.00	0.021	
	0	25.00	0.013	
	10	12.00	0.006	



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	20	4.00	0.002	
	30	-2.00	-0.001	
	40	-28.00	-0.014	
	50	-15.00	-0.008	
	60		0.000	
	70		0.000	
138Vac	25	-7.00	-0.004	
102Vac	25	6.00	0.003	
LTE BAND30 QPSK 10MHz FRB - Up Link				
2310MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-42.00	-0.018	±2.5
	-20	-38.00	-0.016	
	-10	-35.00	-0.015	
	0	-37.00	-0.016	
	10	-29.00	-0.013	
	20	-15.00	-0.006	
	30	8.00	0.003	
	40	19.00	0.008	
	50	33.00	0.014	
	60		0.000	
	70		0.000	
138Vac	25	-25.00	-0.011	
102Vac	25	-31.00	-0.013	
LTE BAND30 QPSK 10MHz FRB - Down Link				
2355MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-32.00	-0.014	±2.5
	-20	-48.00	-0.020	
	-10	-45.00	-0.019	
	0	-31.00	-0.013	
	10	-29.00	-0.012	
	20	-32.00	-0.014	
	30	-45.00	-0.019	
	40	-38.00	-0.016	
	50	-46.00	-0.020	
	60		0.000	
	70		0.000	
138Vac	25	-42.00	-0.018	
102Vac	25	-30.00	-0.013	
LTE BAND66 QPSK 10MHz FRB - Up Link				
1755MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-43.00	-0.025	±2.5
	-20	-32.00	-0.018	
	-10	-15.00	-0.009	
	0	-9.00	-0.005	
	10	2.00	0.001	
	20	16.00	0.009	
	30	9.00	0.005	
	40	35.00	0.020	
	50	21.00	0.012	



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	60		0.000	
	70		0.000	
138Vac	25	10.00	0.006	
102Vac	25	6.00	0.003	
LTE BAND66 QPSK 10MHz FRB - Down Link				
2155MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	-51.00	-0.024	±2.5
	-20	-21.00	-0.010	
	-10	-28.00	-0.013	
	0	5.00	0.002	
	10	22.00	0.010	
	20	13.00	0.006	
	30	19.00	0.009	
	40	33.00	0.015	
	50	12.00	0.006	
	60		0.000	
	70		0.000	
138Vac	25	15.00	0.007	
102Vac	25	28.00	0.013	
NR n77 : 3700 - 3980 MHz - Down Link				
3840MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	23.00	0.006	±2.5
	-20	45.00	0.012	
	-10	33.00	0.009	
	0	18.00	0.005	
	10	10.00	0.003	
	20	-1.00	0.000	
	30	-5.00	-0.001	
	40	6.00	0.002	
	50	-12.00	-0.003	
	60		0.000	
	70		0.000	
138Vac	25	7.00	0.002	
102Vac	25	-11.00	-0.004	
NR n77 : 3700 - 3980 MHz - Up Link				
3840MHz	Temp	Frequency drift(Hz)	Frequency drift(ppm)	Limit (ppm)
120Vac	-30	22.00	0.006	±2.5
	-20	28.00	0.007	
	-10	39.00	0.010	
	0	15.00	0.004	
	10	-1.00	0.000	
	20	21.00	0.005	
	30	-12.00	-0.003	
	40	-16.00	-0.004	
	50	-32.00	-0.008	
	60		0.000	
	70		0.000	
138Vac	25	-10.00	-0.003	
102Vac	25	21.00	0.005	



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9. Spurious emissions radiated measurements

9.1 Test procedure

This measurement is intended to produce test data necessary to demonstrate compliance to the radiated spurious emission requirements specified in Section 2.1053 of the FCC rules. This test is intended to capture any emissions that radiate directly from the case, cabinet, control circuits, etc., instead of via the antenna output port, and thus would not be captured in conducted spurious emission measurements. See KDB Publication 971168 [R8] for measurement procedure guidance.

9.2 Test Results

Model: Zone DAS Two Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Note:

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. Up Line: PK Limit Line, Down Line: Ave Limit Line.
5. See attached diagrams in appendix.



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FCC ID: 2ASQXZONEDASTWO

Appendix

Measurement diagrams

Spurious Emission



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 1

Data : #1

Date: 2025/5/9

Temperature: 23.1 °C

Time: 下午 04:30:03

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	132.5451	-83.74	peak	20.09	-63.65	-13.00	150	160	-50.65	
	145.8317	-85.33	peak	20.84	-64.49	-13.00	150	85	-51.49	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 1

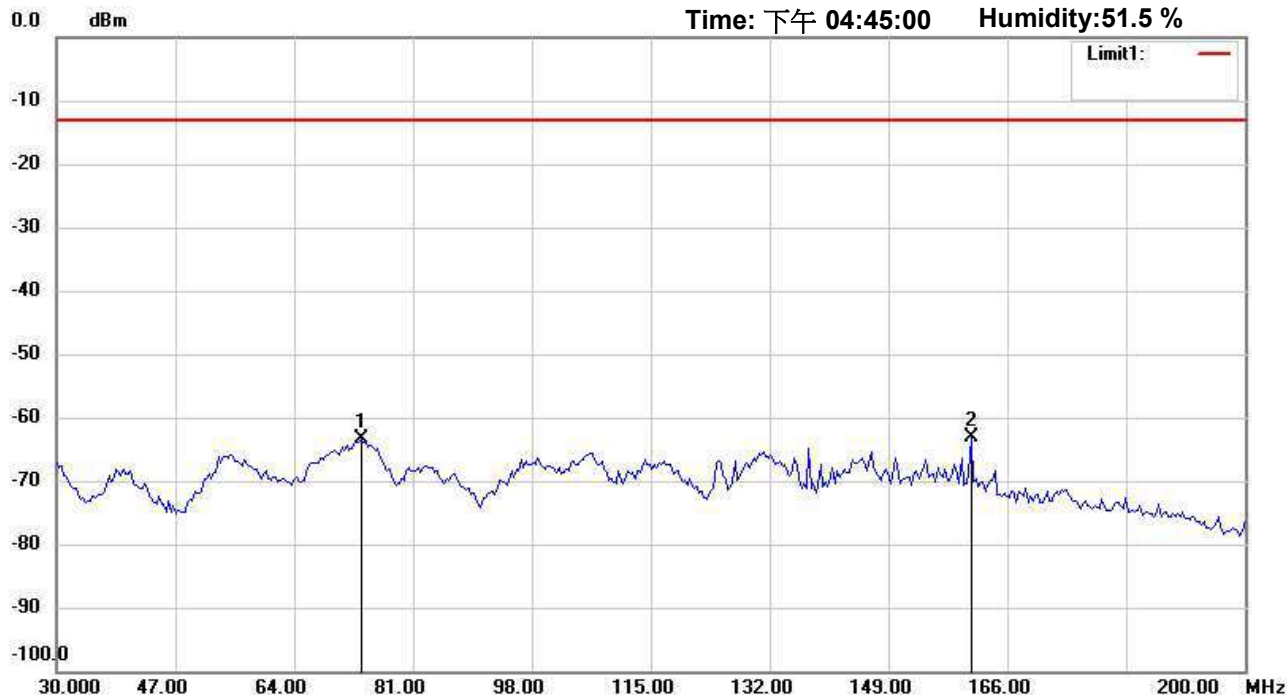
Data : #2

Date: 2025/5/9

Temperature: 23.1 °C

Time: 下午 04:45:00

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	73.6071	-84.83	peak	21.38	-63.45	-13.00	150	225	-50.45	
*	160.8216	-86.17	peak	23.01	-63.16	-13.00	150	290	-50.16	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 2

Data : #1

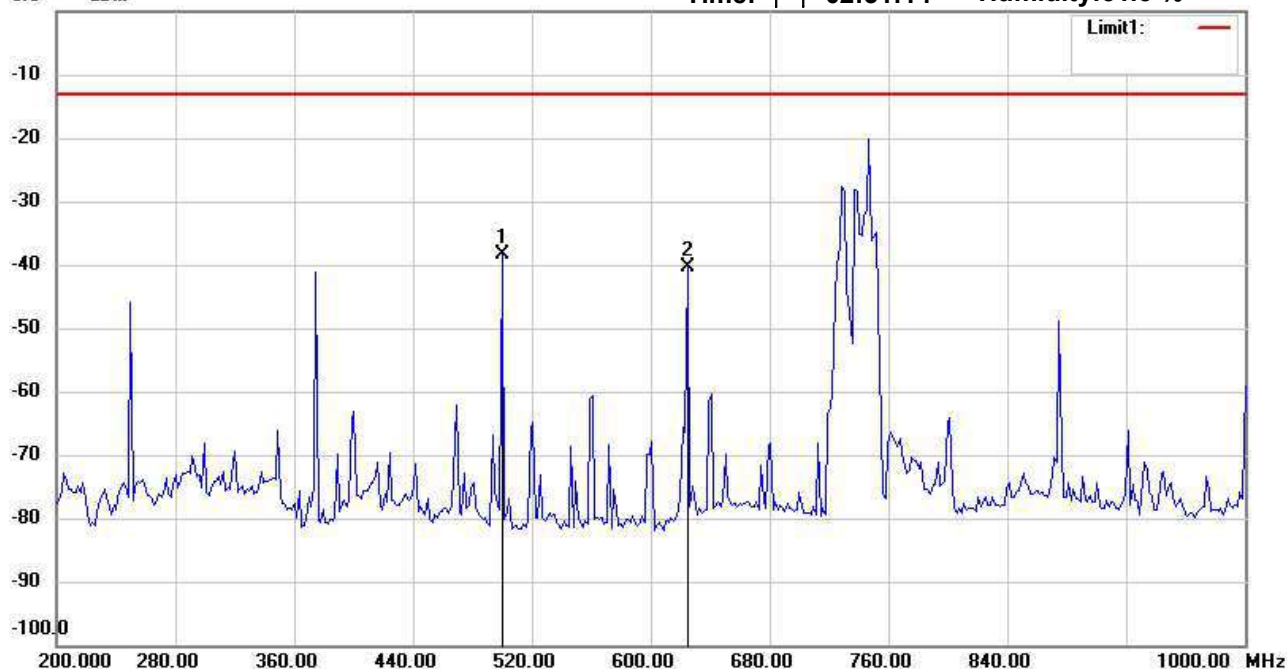
Date: 2025/5/9

Temperature: 23.1 °C

0.0 dBm

Time: 下午 02:31:14

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Horizontal

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	499.7995	-30.50	peak	-7.93	-38.43	-13.00	150	195	-25.43	
	624.8496	-36.59	peak	-3.80	-40.39	-13.00	150	110	-27.39	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 2

Data : #2

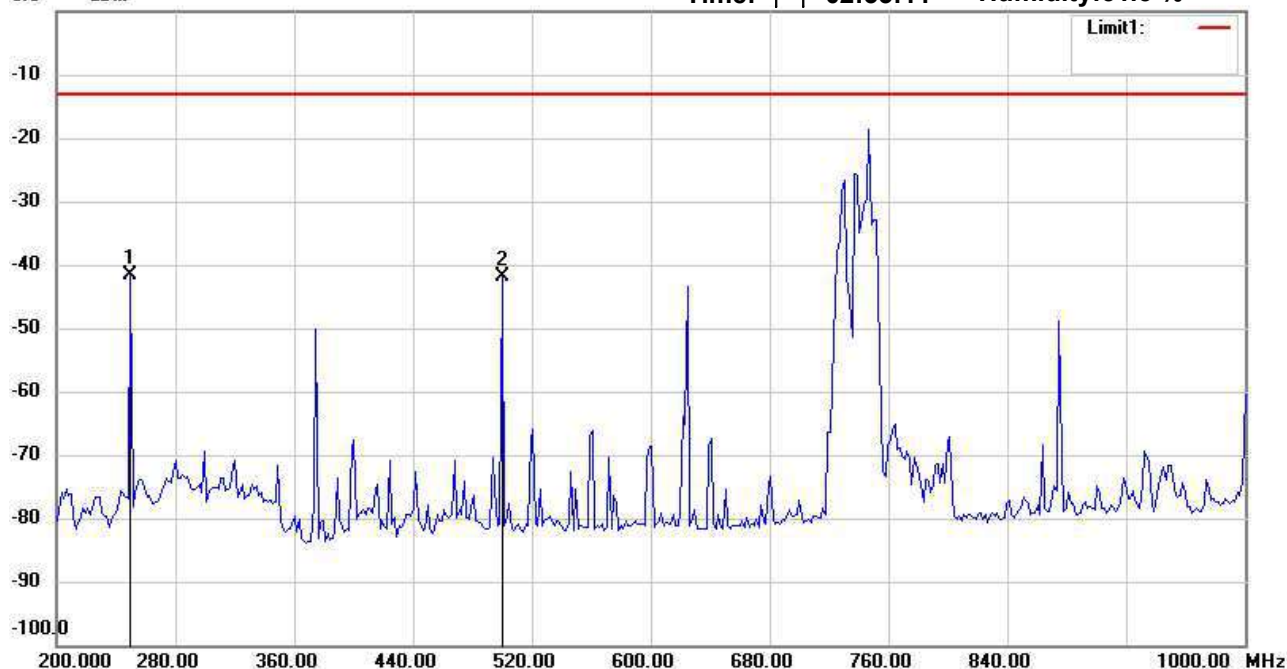
Date: 2025/5/9

Temperature: 23.1 °C

0.0 dBm

Time: 下午 02:33:11

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	249.6993	-28.85	peak	-12.88	-41.73	-13.00	150	310	-28.73	
	499.7995	-34.66	peak	-7.19	-41.85	-13.00	150	255	-28.85	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #1

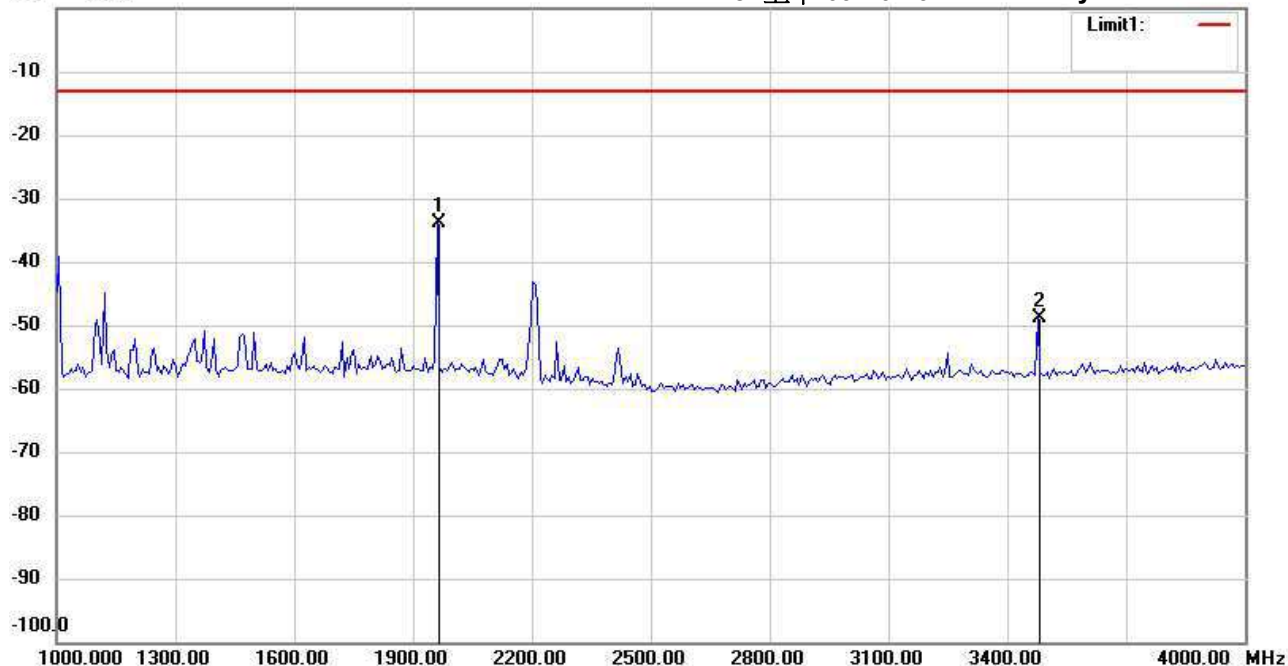
Date: 2025/5/9

Temperature: 23.1 °C

Time: 上午 09:40:49

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1961.924	-37.62	peak	3.80	-33.82	-13.00	150	285	-20.82	
	3476.954	-52.92	peak	4.01	-48.91	-13.00	150	105	-35.91	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #4

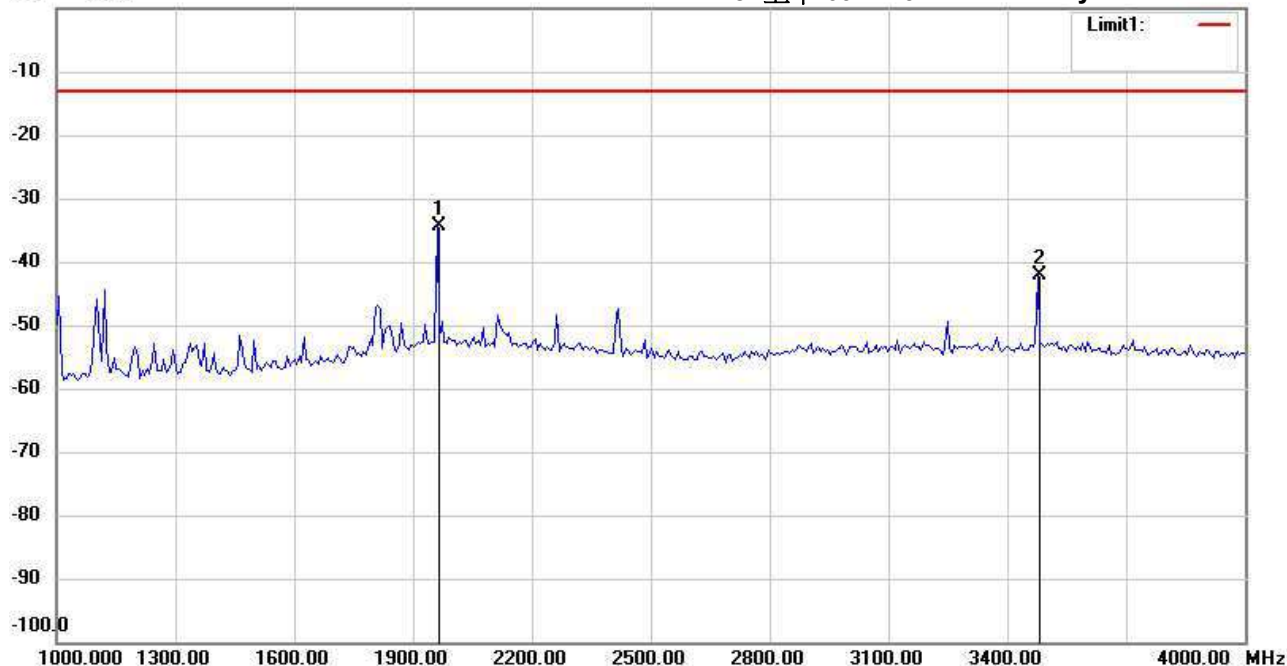
Date: 2025/5/9

Temperature: 23.1 °C

Time: 上午 09:44:37

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1961.924	-42.28	peak	7.93	-34.35	-13.00	150	165	-21.35	
	3476.954	-50.44	peak	8.25	-42.19	-13.00	150	285	-29.19	

*:Maximum data x:Over limit !:over margin



Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File :3

Data :#2

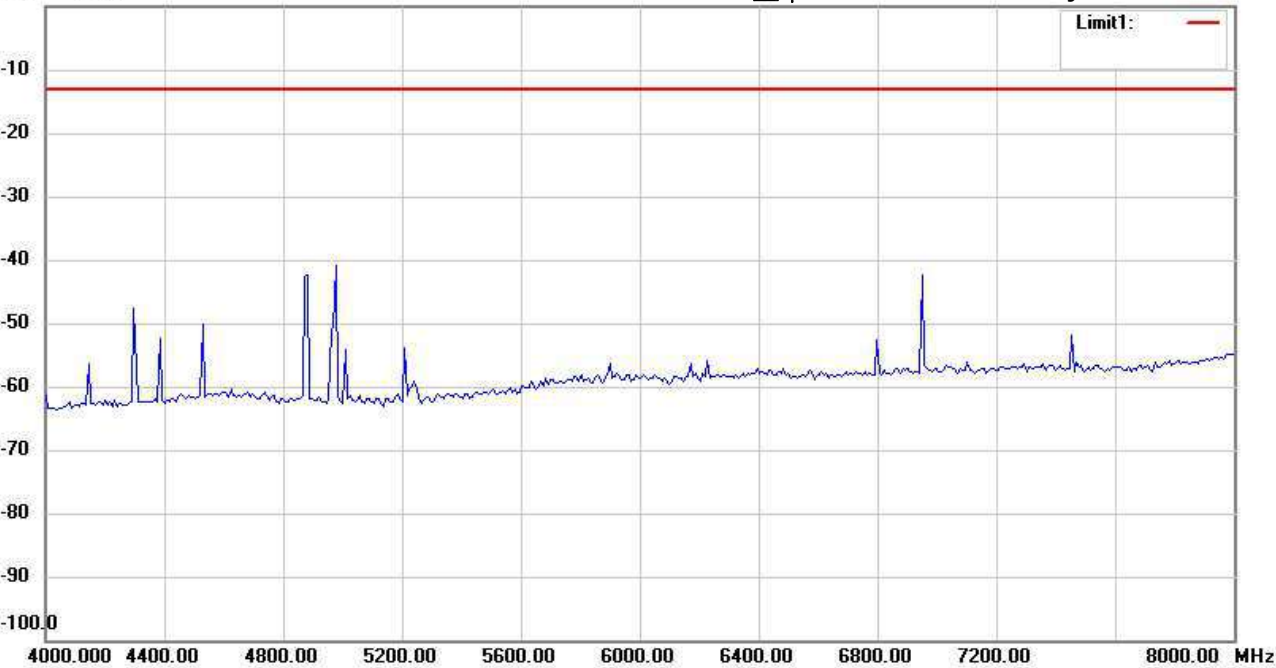
Date: 2025/5/9

Temperature:23.1 °C

0.0 dBm

Time: 上午 09:41:43

Humidity:51.5 %



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Horizontal

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	---------------	----------	-------------------	--------------	-------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Sora

File : 3

Data : #5

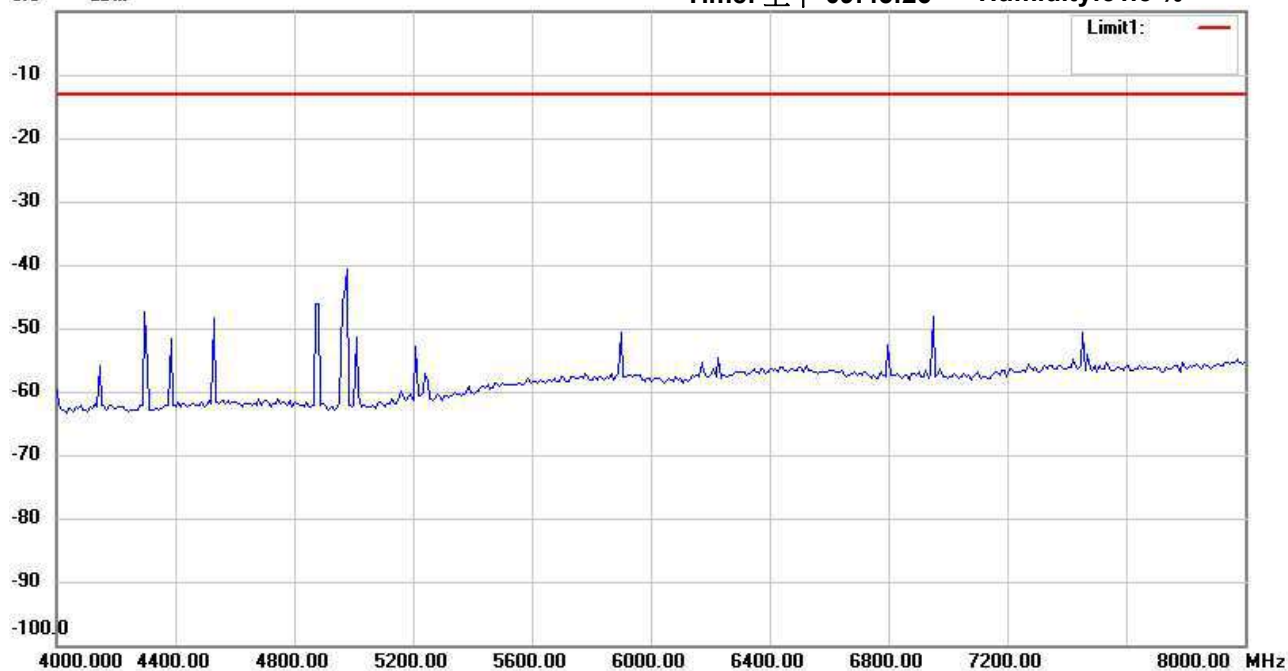
Date: 2025/5/9

Temperature: 23.1 °C

0.0 dBm

Time: 上午 09:45:26

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 22/24/27

EUT : W6M22504-24316

M/N:

Test Mode : LTE Band 12 DownLink 10M 734MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	---------------	----------	-------------------	--------------	-------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin