

47 CFR PART 15 SUBPART C TEST REPORT

for

Embedded Node

Model No.: SN-EB01

FCC ID: 2BAJFSN-EB01

of

Applicant: LEOTEK Electronics Corp.

Address: 1955 Lundy Ave, San Jose, CA 95131 United States

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.: W6M22409-23713-C-247

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Certification of Test Report

Applicant : LEOTEK Electronics Corp.
1955 Lundy Ave, San Jose, CA 95131 United States

Manufacturer : KO CHANG ELECTRONIC CO., LTD.
No. 395, Section 6, Minzu Road,
Xinwu District, Taoyuan City, Taiwan

Tested equipment :

Type description : Embedded Node
Model number : SN-EB01
Brand name : LEOTEK
Operation frequency : Please see chapter 2.3.
RF output power : NB-IOT
Band 2: 22.32dBm (EIRP)
Band 4 22.37dBm (EIRP)
Band 5: 22.28dBm (EIRP)
Band 12: 22.31dBm (EIRP)
Band 13: 22.30dBm (EIRP)
Band 26: 22.41dBm (EIRP)
Cat M1
Band 2: 22.42dBm (EIRP)
Band 4 21.99dBm (EIRP)
Band 5: 22.21dBm (EIRP)
Band 12: 22.26dBm (EIRP)
Band 13: 22.68dBm (EIRP)
Band 26: 22.34dBm (EIRP)

Power supply : AC 120V

Regulation applied : 47CFR Part 22 (2023-10), Part 24 (2023-10),
Part 27 (2023-10), Part 90 (2023-10)

Test method : 47CFR Part 2 (2023), TIA/EIA-603E (2016) and
ANSI C63.26 (2015)

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), TIA/EIA-603E (2016), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22/24/27.

Laboratory disclaimer:

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.
3. Antenna gain is provided by applicant and laboratory issue relevant data and results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247
FCC ID: 2BAJFSN-EB01

Test engineer:

November 21, 2024

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

November 21, 2024

Kevin Wang

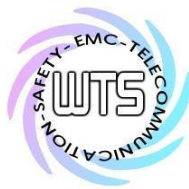
Kevin Wang

Date

WTS

Name

Signature

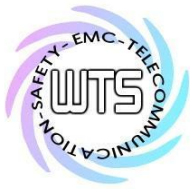


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

TABLE OF CONTENTS

1. SUMMARY	3
1.1 DESCRIPTION OF TESTED EQUIPMENT	3
1.2 DATE OF TESTING PROCESSING	3
1.3 MODIFICATION INFORMATION	3
1.4 TEST STANDARDS.....	3
1.5 SUMMARY OF TEST RESULT.....	4
2. GENERAL INFORMATION	5
2.1 TESTING LABORATORY	5
2.2 DETAILS OF APPROVAL HOLDER.....	5
2.3 DESCRIPTION OF TESTED SYSTEM.....	5
2.4 TEST ENVIRONMENT	9
2.5 GENERAL TEST REQUIREMENT	10
2.6 TEST EQUIPMENT LIST.....	11
3. RF POWER OUTPUT	13
3.1 TEST PROCEDURE.....	13
3.2 TEST RESULTS	14
4. MODULATION CHARACTERISTICS	33
4.1 TEST PROCEDURE.....	33
4.2 TEST RESULTS	33
5. PEAK-TO-AVERAGE RATIO	34
5.1 TEST PROCEDURE.....	34
5.2 TEST SET UP.....	34
5.3 TEST RESULTS	35
6. OCCUPIED BANDWIDTH.....	90
6.1 TEST PROCEDURE.....	90
6.2 TEST RESULTS	91
7. SPURIOUS EMISSIONS AT ANTENNA TERMINALS	131
7.1 TEST PROCEDURE.....	131
7.2 TEST RESULTS	131
7.3 EXPLANATION OF TEST RESULT.....	149
7.4 CALCULATION OF LIMIT FOR SPURIOUS AT ANTENNA TERMINALS.....	149
8. FIELD STRENGTH OF SPURIOUS RADIATION	150
8.1 TEST PROCEDURE.....	150
8.2 TEST RESULTS	150
8.3 EXPLANATION OF TEST RESULT.....	150
8.4 CALCULATION OF LIMIT FOR FIELD STRENGTH OF SPURIOUS	150
8.5 TEST RESULT OF BAND EDGE EMISSIONS	151



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

9. FREQUENCY STABILITY	245
9.1 TEST PROCEDURE	257
9.2 TEST RESULTS	259
APPENDIX.....	264



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

1 Summary

1.1 Description of tested equipment

This equipment under tested, SN-EB01, is an Embedded Node.

This test report only contains test requirements specified in 47CFR Part 22, Part 24, Part 27 and Part 90 for NB-IOT, Cat M1 function. For other functions; please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Date of receipt of test item: August 20, 2024

Date of test: from August 21, 2024 to October 17, 2024

Other Information: None

1.3 Modification Information

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

1.4 Test standards

Technical standard: **47CFR Part 22 (2023-10), Part 24 (2023-10),
Part 27 (2023-10), Part 90 (2023-10)**

Test method: **47 CFR Part 2 (2021), TIA/EIA-603E (2016),
ANSI C63.26 (2015)**

Deviation from test standard: None



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

1.5 Summary of test result

Harmonized Standard Requirements and Conformance Test Specifications				
Item	Clause	Test Content	Limit	Test Result
3.2	§22.913 §24.232 §27.50	Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement	ERP < 7 Watts (Band 5) EIRP < 2 Watts (Band 2) ERP < 3 Watts (Band 12, Band 13) EIRP < 1 Watts (Band 4)	Pass
5.3	§24.232 §27.50	Peak-to-Average Ratio	< 13 dB	Pass
6.2	§2.1049	Occupied Bandwidth	OBW : No Limit	Pass
7.2	§22.917 §24.238 §27.53	Conducted Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.2	§22.917 §24.238 §27.53	Radiated Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.5	§22.917 §24.238 §27.53	Conducted Band Edge Measurement	< 43+10log10(P[Watts])	Pass
9.2	§2.1055 §22.355 §24.235 §27.54	Frequency stability / Temperature variation Measurement	< 2.5 ppm	Pass

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Radiated Emission(3M-966A)	Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 3.20 dB 1-18 GHz : 3.56 dB 18-40 GHz : 2.94 dB
Estimation Result of Uncertainty of Conducted Output Power Measurement	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Bandwidth Measurement	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.67 dBc

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

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: LEOTEK Electronics Corp.
Street: 1955 Lundy Ave, San Jose,
Town: CA 95131
Country: United States

Manufacturer: (if different from applicant)

Name: KO CHANG ELECTRONIC CO., LTD.
Street: No. 395, Section 6, Minzu Road, Xinwu District,
Town: Taoyuan City,
Country: Taiwan

2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Frequencies Selected to be investigated:

NB-IOT

Band 2

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	18602	0	1850.2	602	-0.5	1930.2
Mid Range	18900	0	1880.0	900	-0.5	1960.0
High Range	19198	0	1909.8	1198	-0.5	1989.8

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Band 4

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	19952	0	1710.2	1952	-0.5	2110.2
Mid Range	20175	0	1732.5	2175	-0.5	2132.5
High Range	20398	0	1754.8	2398	-0.5	2154.8

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Band 5

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	20402	0	824.2	2402	-0.5	869.2
Mid Range	20525	0	836.5	2525	-0.5	881.5
High Range	20648	0	848.8	2648	-0.5	893.8

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Band 12

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	23011	0	699.1	5011	-0.5	729.1
Mid Range	23095	0	707.5	5095	-0.5	737.5
High Range	23179	0	715.9	5179	-0.5	745.9

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Band 13

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	23181	0	777.1	5181	-0.5	746.1
Mid Range	23230	0	782.0	5230	-0.5	751.0
High Range	23279	0	786.9	5279	-0.5	755.9

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Band 26

Test Frequency ID	N _{UL}	M _{UL}	Frequency of Uplink [MHz]	N _{DL}	M _{DL}	Frequency of Downlink [MHz]
Low Range	26692	0	814.2	8692	-0.5	859.2
Mid Range	26865	0	831.5	8865	-0.5	876.5
High Range	27038	0	848.8	9038	-0.5	893.8

NOTE 1: Applicable to either 3.75 kHz or 15 kHz NB-IoT UL subcarrier spacing

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

CAT M1

Band 2

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 ^[1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15 ^[1]	19125	1902.5	1125	1982.5
	20 ^[1]	19100	1900	1100	1980
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

Band 4

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

Band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Band 12

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5025	730.5
	5 [1]	23035	701.5	5035	731.5
	10 [1]	23060	704	5060	734
Mid Range	1.4/3 5 [1]/10 [1]	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5165	744.5
	5 [1]	23155	713.5	5155	743.5
	10 [1]	23130	711	5130	741
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

Band 13

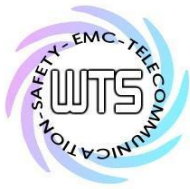
Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5 [1]	23205	779.5	5205	748.5
	10 [1]	23230	782	5230	751
Mid Range	5 [1]/10 [1]	23230	782	5230	751
High Range	5 [1]	23255	784.5	5255	753.5
	10 [1]	23230	782	5230	751
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

Band 26

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
	10 [1]	26740	819	8740	864
Mid Range	15 [1]	26765	821.5	8765	866.5
	1.4/3/5/10 [1] 15 [1]	26865	831.5	8865	876.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10 [1]	26990	844	8990	889
	15 [1]	26965	841.5	8965	886.5
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

Antenna type:

FPC antenna



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Antenna gain: NB-IOT & Cat M1
Band 2: 1.44 dBi 、 Band 4: 1.44 dBi 、 Band 5: 1.34 dBi 、
Band 12: 1.34 dBi 、 Band 13: 1.34 dBi 、 Band 26: 1.34 dBi

Power supply: AC 120

Sample no.: #01

2.4 Test environment

Temperature: 27 °C
Relative humidity content: 54 %
Air pressure: 86-103 Kpa



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

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.

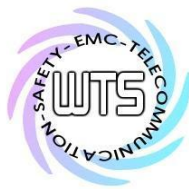
For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

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.



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

2.6 Test Equipment List

Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2024/4/23	2025/4/22
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/8/26	2025/8/25

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 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2024/4/23	2025/4/22
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15

Peak to Average Ratio & Conducted Spurious emission, band edge, Occupied Bandwidth, 26DB Bandwidth

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2024/8/26	2025/8/25
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2024/4/23	2025/4/22
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

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 154	EMI Test Receiver	ESR3	102829	R&S	2024/4/10	2025/4/9
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	2024/3/4	2025/3/3
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2024/2/29	2025/2/28
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-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2024/4/23	2025/4/22

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

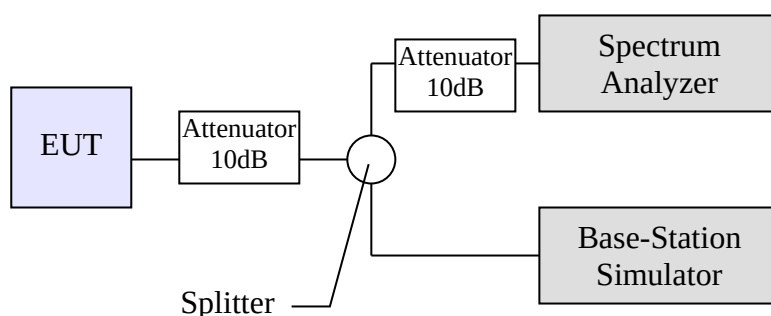
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link from simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance with the following settings:

RBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assigning the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low, middle and high channels) and operation mode selected.



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

3.2 Test Results

Test date: September 29, 2024

Temperature: 26.4 °C

Humidity: 57.8 %

Tester: Rick

NB-IOT

Band 2

NB-IOT Band2	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	18602/1850.2	1@0	20.71	22.15
		1@47	20.55	21.99
	18900/1880	1@0	20.83	22.27
		1@47	20.74	22.18
	19198/1909.8	1@0	20.84	22.28
		1@47	20.72	22.16
15KHz	18602/1850.2	1@0	20.67	22.11
		1@11	20.57	22.01
	18900/1880	1@0	20.79	22.23
		1@11	20.62	22.06
	19198/1909.8	1@0	20.75	22.19
		1@11	20.64	22.08



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

NB-IOT Band2	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	18602/1850.2	1@0	20.74	22.18
		1@47	20.56	22
	18900/1880	1@0	20.85	22.29
		1@47	20.76	22.2
	19198/1909.8	1@0	20.88	22.32
		1@47	20.75	22.19
15KHz	18602/1850.2	1@0	20.67	22.11
		1@11	20.58	22.02
		12@0	18.68	20.12
	18900/1880	1@0	20.69	22.13
		1@11	20.71	22.15
		12@0	18.76	20.2
	19198/1909.8	1@0	20.84	22.28
		1@11	20.81	22.25
		12@0	18.76	20.2

Band 4

NB-IOT Band4	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	19952/1710.2	1@0	20.93	22.37
		1@47	20.91	22.35
	20175/1732.5	1@0	20.73	22.17
		1@47	20.66	22.1
	20398/1754.8	1@0	20.76	22.2
		1@47	20.72	22.16
15KHz	19952/1710.2	1@0	20.93	22.37
		1@11	20.9	22.34
	20175/1732.5	1@0	20.52	21.96
		1@11	20.45	21.89
	20398/1754.8	1@0	20.63	22.07
		1@11	20.51	21.95



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

NB-IOT Band4	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	19952/1710.2	1@0	20.89	22.33
		1@47	20.87	22.31
	20175/1732.5	1@0	20.78	22.22
		1@47	20.69	22.13
	20398/1754.8	1@0	20.84	22.28
		1@47	20.63	22.07
15KHz	19952/1710.2	1@0	20.81	22.25
		1@11	20.75	20.75
		12@0	19.01	20.45
	20175/1732.5	1@0	20.47	21.91
		1@11	20.49	20.49
		12@0	18.46	19.9
	20398/1754.8	1@0	20.5	21.94
		1@11	20.57	22.01
		12@0	18.56	20

Band 5

NB-IOT Band5	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	20402/824.2	1@0	20.82	22.16
		1@47	20.81	22.15
	20525/836.5	1@0	20.89	22.23
		1@47	20.75	22.09
	20648/848.8	1@0	20.9	22.24
		1@47	20.71	22.05
15KHz	20402/824.2	1@0	20.94	22.28
		1@11	20.91	22.25
	20525/836.5	1@0	20.71	22.05
		1@11	20.61	21.95
	20648/848.8	1@0	20.77	22.11
		1@11	20.72	22.06



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

NB-IOT Band5	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	20402/824.2	1@0	20.82	22.16
		1@47	20.82	22.16
	20525/836.5	1@0	20.94	22.28
		1@47	20.88	22.22
	20648/848.8	1@0	20.88	22.22
		1@47	20.88	22.22
15KHz	20402/824.2	1@0	20.84	22.18
		1@11	20.85	22.19
		12@0	18.94	20.28
	20525/836.5	1@0	20.76	22.1
		1@11	20.63	21.97
		12@0	18.82	20.16
	20648/848.8	1@0	20.86	20.86
		1@11	20.84	20.84
		12@0	18.96	18.96

Band 12

NB-IOT Band12	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	23012/699.2	1@0	20.84	22.18
		1@47	20.82	22.16
	23095/707.5	1@0	20.97	22.31
		1@47	20.89	22.23
	23178/715.8	1@0	20.95	22.29
		1@47	20.91	22.25
15KHz	23012/699.2	1@0	20.92	22.26
		1@11	20.83	22.17
	23095/707.5	1@0	20.83	22.17
		1@11	20.74	22.08
	23178/715.8	1@0	20.71	22.05
		1@11	20.63	21.97



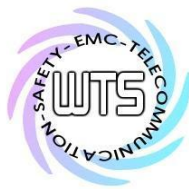
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FCC ID: 2BAJFSN-EB01

NB-IOT Band12	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	23012/699.2	1@0	20.81	22.15
		1@47	20.81	22.15
	23095/707.5	1@0	20.93	22.27
		1@47	20.93	22.27
	23178/715.8	1@0	20.93	22.27
		1@47	20.88	22.22
15KHz	23012/699.2	1@0	20.64	21.98
		1@11	20.7	22.04
		12@0	18.74	20.08
	23095/707.5	1@0	20.62	21.96
		1@11	20.59	21.93
		12@0	18.63	19.97
	23178/715.8	1@0	20.89	22.23
		1@11	20.79	22.13
		12@0	18.83	20.17

Band 13

NB-IOT Band13	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	23182/777.2	1@0	20.93	22.27
		1@47	20.94	22.28
	23230/782	1@0	20.94	22.28
		1@47	20.96	22.3
	23278/786.8	1@0	20.73	22.07
		1@47	20.84	22.18
15KHz	23182/777.2	1@0	20.83	22.17
		1@11	20.83	22.17
	23230/782	1@0	20.74	22.08
		1@11	20.71	22.05
	23278/786.8	1@0	20.75	22.09
		1@11	20.63	21.97



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Registration number: W6M22409-23713-C-247

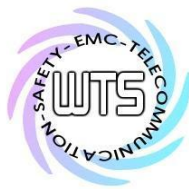
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NB-IOT Band13	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	23182/777.2	1@0	20.94	22.28
		1@47	20.91	22.25
	23230/782	1@0	20.96	22.3
		1@47	20.92	22.26
	23278/786.8	1@0	20.85	22.19
		1@47	20.83	22.17
15KHz	23182/777.2	1@0	20.83	22.17
		1@11	20.81	22.15
		12@0	18.83	20.17
	23230/782	1@0	20.92	22.26
		1@11	20.93	22.27
		12@0	18.87	20.21
	23278/786.8	1@0	20.85	22.19
		1@11	20.84	22.18
		12@0	18.81	20.15

Part 22

Band 26

NB-IOT Band26	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	26865/831.5	1@0	21.07	22.41
		1@47	20.98	22.32
	27038/848.8	1@0	20.92	22.26
		1@47	20.81	22.15
15KHz	26865/831.5	1@0	20.96	22.3
		1@11	20.92	22.26
	27038/848.8	1@0	20.84	22.18
		1@11	20.73	22.07



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

NB-IOT Band26	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	26865/831.5	1@0	21.04	22.38
		1@47	21.03	22.37
	27038/848.8	1@0	20.93	22.27
		1@47	20.84	22.18
15KHz	26865/831.5	1@0	21.03	22.37
		1@11	20.96	22.3
		12@0	19.03	20.37
	27038/848.8	1@0	20.83	22.17
		1@11	20.85	22.19
		12@0	18.84	20.18

Part 90

NB-IOT Band26	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			BPSK	BPSK
3.75KHz	26692/814.2	1@0	20.82	22.16
		1@47	20.78	22.12
15KHz	26692/814.2	1@0	20.81	22.15
		1@11	20.69	22.03

NB-IOT Band26	Channel/ Frequency(MHz)	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
			QPSK	QPSK
3.75KHz	26692/814.2	1@0	20.84	22.18
		1@47	20.83	22.17
15KHz	26692/814.2	1@0	20.93	22.27
		1@11	20.82	22.16
		12@0	18.92	20.26



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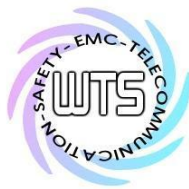
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Cat M1

Band 2

CATM1 Band2	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	18607/1850.7	0	1#0	20.73	22.17
		0	6#0	18.59	20.03
	18900/1880	0	1#0	20.98	22.42
		0	6#0	18.79	20.23
	19193/1909.3	0	1#5	20.55	21.99
		0	6#0	18.68	20.12
3MHz	18615/1851.5	0	1#0	20.6	22.04
		0	6#0	18.51	19.95
	18900/1880	0	1#0	20.83	22.27
		0	6#0	18.76	20.2
	19185/1908.5	1	1#5	20.41	21.85
		1	6#0	18.54	19.98
5MHz	18625/1852.5	0	1#0	20.71	22.15
		0	6#0	19.56	21
	18900/1880	0	1#0	20.83	22.27
		0	6#0	19.71	21.15
	19175/1907.5	0	1#5	20.39	21.83
		3	6#0	19.47	20.91
10MHz	18650/1855	3	1#0	20.83	22.27
		0	4#0	20.56	22
	18900/1880	0	1#0	20.83	22.27
		0	4#0	20.64	22.08
	19150/1905	4	1#5	20.42	21.86
		7	4#2	20.36	21.8
15MHz	18675/1857.5	3	1#0	20.65	22.09
		0	6#0	20.69	22.13
	18900/1880	0	1#0	20.88	22.32
		0	6#0	20.83	22.27
	19125/1902.5	8	1#5	20.49	21.93
		11	6#0	20.61	22.05
20MHz	18700/1860	3	1#0	20.57	22.01
		0	6#0	20.45	21.89
	18900/1880	0	1#0	20.69	22.13
		0	6#0	20.58	22.02



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

	19100/1900	12	1#5	20.56	22
		15	6#0	20.55	21.99

CATM1 Band2	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	18607/1850.7	0	1#0	20.13	21.57
		0	5#1	18.44	19.88
	18900/1880	0	1#0	20.24	21.68
		0	5#1	18.9	20.34
	19193/1909.3	0	1#5	19.84	21.28
		0	5#1	18.52	19.96
3MHz	18615/1851.5	0	1#0	19.82	21.26
		0	5#1	18.45	19.89
	18900/1880	0	1#0	19.99	21.43
		0	5#1	18.64	20.08
	19185/1908.5	1	1#5	19.78	21.22
		1	5#1	18.49	19.93
5MHz	18625/1852.5	0	1#0	20.67	22.11
		0	5#1	19.44	20.88
	18900/1880	0	1#0	20.8	22.24
		0	5#1	19.54	20.98
	19175/1907.5	0	1#5	20.48	21.92
		3	5#1	19.44	20.88
10MHz	18650/1855	3	1#0	20.58	22.02
		0	4#0	20.25	21.69
	18900/1880	0	1#0	20.69	22.13
		0	4#0	20.36	21.8
	19150/1905	4	1#5	20.43	21.87
		7	4#2	20.23	21.67
15MHz	18675/1857.5	3	1#0	20.73	22.17
		0	5#1	20.51	21.95
	18900/1880	0	1#0	20.45	21.89
		0	5#1	20.52	21.96
	19125/1902.5	8	1#5	20.42	21.86
		11	5#1	20.43	21.87
20MHz	18700/1860	3	1#0	20.67	22.11
		0	5#1	20.43	21.87
	18900/1880	0	1#0	20.77	22.21



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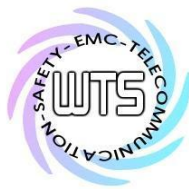
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

		0	5#1	20.54	21.98
	19100/1900	12	1#5	20.53	21.97
		15	5#1	20.4	21.84

Band 4

CATM1 Band4	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	19957/1710.7	0	1#0	20.42	21.86
		0	6#0	18.31	19.75
	20175/1732.5	0	1#0	20.53	21.97
		0	6#0	18.51	19.95
	20393/1754.3	0	1#5	20.39	21.83
		0	6#0	18.44	19.88
3MHz	19965/1711.5	0	1#0	20.44	21.88
		0	6#0	18.36	19.8
	20175/1732.5	0	1#0	20.55	21.99
		0	6#0	18.44	19.88
	20385/1753.5	1	1#5	20.3	21.74
		1	6#0	18.49	19.93
5MHz	19975/1712.5	0	1#0	20.32	21.76
		0	6#0	19.28	20.72
	20175/1732.5	0	1#0	20.34	21.78
		0	6#0	19.33	20.77
	20375/1752.5	3	1#5	20.08	21.52
		3	6#0	19.29	20.73
10MHz	20000/1715	0	1#0	20.22	21.66
		0	4#0	20.24	21.68
	20175/1732.5	0	1#0	20.36	21.8
		0	4#0	20.29	21.73
	20350/1750	7	1#5	20.18	21.62
		7	4#2	20.25	21.69
15MHz	20025/1717.5	0	1#0	20.29	21.73
		0	6#0	20.29	21.73
	20175/1732.5	0	1#0	20.44	21.88
		0	6#0	20.28	21.72
	20325/1747.5	11	1#5	20.2	21.64
		11	6#0	20.3	21.74
20MHz	20050/1720	0	1#0	20.3	21.74
		0	6#0	20.26	21.7



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

	20175/1732.5	0	1#0	20.4	21.84
		0	6#0	20.27	21.71
	20300/1745	15	1#5	20.18	21.62
		15	6#0	20.27	21.71

CATM1 Band4	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	19957/1710.7	0	1#0	19.22	20.66
		0	5#1	18	19.44
	20175/1732.5	0	1#0	19.33	20.77
		0	5#1	18.12	19.56
	20393/1754.3	0	1#5	19.13	20.57
		0	5#1	18.1	19.54
3MHz	19965/1711.5	0	1#0	19.19	20.63
		0	5#1	17.98	19.42
	20175/1732.5	0	1#0	19.25	20.69
		0	5#1	18.06	19.5
	20385/1753.5	1	1#5	19.17	20.61
		1	5#1	18.1	19.54
5MHz	19975/1712.5	0	1#0	20.11	21.55
		0	5#1	19	20.44
	20175/1732.5	0	1#0	19.91	21.35
		0	5#1	18.84	20.28
	20375/1752.5	3	1#5	19.8	21.24
		3	5#1	18.97	20.41
10MHz	20000/1715	0	1#0	19.79	21.23
		0	4#0	19.74	21.18
	20175/1732.5	0	1#0	19.81	21.25
		0	4#0	19.92	21.36
	20350/1750	7	1#5	19.84	21.28
		7	4#2	19.89	21.33
15MHz	20025/1717.5	0	1#0	19.78	21.22
		0	5#1	19.82	21.26
	20175/1732.5	0	1#0	20	21.44
		0	5#1	19.86	21.3
	20325/1747.5	11	1#5	19.67	21.11
		11	5#1	19.82	21.26
20MHz	20050/1720	0	1#0	19.94	21.38
		0	5#1	19.66	21.1



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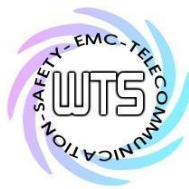
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

	20175/1732.5	0	1#0	20.01	21.45
		0	5#1	19.84	21.28
	20300/1745	15	1#5	19.86	21.3
		15	5#1	19.93	21.37

Band 5

CATM1 Band5	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	20407/824.7	0	1#0	19.97	21.31
		0	6#0	18.12	19.46
	20525/836.5	0	1#0	20.2	21.54
		0	6#0	18.03	19.37
	20643/848.3	0	1#5	20.12	21.46
		0	6#0	18.11	19.45
3MHz	20415/825.5	0	1#0	20.62	21.96
		0	6#0	18.6	19.94
	20525/836.5	0	1#0	20.87	22.21
		0	6#0	18.75	20.09
	20635/847.5	1	1#5	20.57	21.91
		1	6#0	18.57	19.91
5MHz	20425/826.5	0	1#0	19.99	21.33
		0	6#0	19.51	20.85
	20525/836.5	0	1#0	20.12	21.46
		0	6#0	19.66	21
	20625/846.5	3	1#5	20.52	21.86
		3	6#0	19.55	20.89
10MHz	20450/829	0	1#0	20.03	21.37
		0	4#0	19.91	21.25
	20525/836.5	0	1#0	20.12	21.46
		0	4#0	19.99	21.33
	20600/844	7	1#5	19.97	21.31
		7	4#2	19.99	21.33



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

CATM1 Band5	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	20407/824.7	0	1#0	18.9	20.24
		0	5#1	17.72	19.06
	20525/836.5	0	1#0	19.02	20.36
		0	5#1	18.04	19.38
	20643/848.3	0	1#5	18.87	20.21
		0	5#1	18.02	19.36
3MHz	20415/825.5	0	1#0	19.38	20.72
		0	5#1	18.42	19.76
	20525/836.5	0	1#0	19.55	20.89
		0	5#1	18.68	20.02
	20635/847.5	1	1#5	19.34	20.68
		1	5#1	18.58	19.92
5MHz	20425/826.5	0	1#0	20.72	22.06
		0	5#1	19.2	20.54
	20525/836.5	0	1#0	20.81	22.15
		0	5#1	19.52	20.86
	20625/846.5	3	1#5	20.44	21.78
		3	5#1	19.45	20.79
10MHz	20450/829	0	1#0	20.59	21.93
		0	4#0	20.06	21.4
	20525/836.5	0	1#0	20.72	22.06
		0	4#0	20.19	21.53
	20600/844	7	1#5	20.53	21.87
		7	4#2	20.22	21.56



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Band 12

CATM1 Band12	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	23017/699.7	0	1#0	20.2	21.54
		0	6#0	17.99	19.33
	23095/707.5	0	1#0	20.46	21.8
		0	6#0	18.14	19.48
	23173/715.3	0	1#5	20.11	21.45
		0	6#0	17.96	19.3
3MHz	23025/700.5	0	1#0	20.75	22.09
		0	6#0	18.64	19.98
	23095/707.5	0	1#0	20.92	22.26
		0	6#0	18.84	20.18
	23165/714.5	1	1#5	20.58	21.92
		1	6#0	18.87	20.21
5MHz	23035/701.5	3	1#0	20.36	21.7
		0	6#0	19.66	21
	23095/707.5	0	1#0	20.41	21.75
		0	6#0	19.73	21.07
	23155/713.5	0	1#5	20.45	21.79
		3	6#0	19.77	21.11
10MHz	23060/704	3	1#0	20.39	21.73
		0	4#0	20.09	21.43
	23095/707.5	0	1#0	20.36	21.7
		0	4#0	20.26	21.6
	23130/711	4	1#5	20.6	21.94
		7	4#2	20.53	21.87



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

CATM1 Band12	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	23017/699.7	0	1#0	19.01	20.35
		0	5#1	17.81	19.15
	23095/707.5	0	1#0	19.07	20.41
		0	5#1	18.01	19.35
	23173/715.3	0	1#5	19.05	20.39
		0	5#1	18.09	19.43
3MHz	23025/700.5	0	1#0	19.56	20.9
		0	5#1	18.5	19.84
	23095/707.5	0	1#0	19.59	20.93
		0	5#1	18.62	19.96
	23165/714.5	1	1#5	19.53	20.87
		1	5#1	18.83	20.17
5MHz	23035/701.5	3	1#0	20.83	22.17
		0	5#1	19.5	20.84
	23095/707.5	0	1#0	20.88	22.22
		0	5#1	19.75	21.09
	23155/713.5	0	1#5	20.81	22.15
		3	5#1	19.55	20.89
10MHz	23060/704	3	1#0	20.65	21.99
		0	4#0	20.26	21.6
	23095/707.5	0	1#0	20.78	22.12
		0	4#0	20.38	21.72
	23130/711	4	1#5	20.74	22.08
		7	4#2	20.55	21.89



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Band 13

CATM1 Band13	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
5MHz	23205/779.5	0	1#0	20.88	22.22
		0	6#0	19.94	21.28
	23230/782	0	1#0	20.8	22.14
		0	6#0	19.87	21.21
	23255/784.5	3	1#5	20.52	21.86
		3	6#0	19.69	21.03
10MHz	23230/782	0	1#0	20.51	21.85
		0	4#0	20.37	21.71

CATM1 Band13	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
5MHz	23205/779.5	0	1#0	21.3	22.64
		0	5#1	19.72	21.06
	23230/782	0	1#0	21.34	22.68
		0	5#1	19.74	21.08
	23255/784.5	3	1#5	20.91	22.25
		3	5#1	19.65	20.99
10MHz	23230/782	0	1#0	20.89	22.23
		0	4#0	20.59	21.93



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

Band 26

Part 22

CATM1 Band26	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	26865/831.5	0	1#0	20.49	21.83
		0	6#0	18.55	19.89
	27033/848.3	0	1#5	20.23	21.57
		0	6#0	18.3	19.64
3MHz	26865/831.5	0	1#0	21	22.34
		0	6#0	18.97	20.31
	27025/847.5	1	1#5	20.51	21.85
		1	6#0	18.76	20.1
5MHz	26865/831.5	0	1#0	20.4	21.74
		0	6#0	19.45	20.79
	27015/846.5	0	1#5	20.27	21.61
		3	6#0	19.26	20.6
10MHz	26865/831.5	0	1#0	20.25	21.59
		0	4#0	20.3	21.64
	26990/844	4	1#5	20.23	21.57
		7	4#2	20.26	21.6
15MHz	26865/831.5	0	1#0	20.27	21.61
		0	6#0	20.22	21.56
	26965/841.5	8	1#5	20.16	21.5
		11	6#0	20.11	21.45



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

CATM1 Band26	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	26865/831.5	0	1#0	19.36	20.7
		0	5#1	18.4	19.74
	27033/848.3	0	1#5	18.99	20.33
		0	5#1	18.32	19.66
3MHz	26865/831.5	0	1#0	19.59	20.93
		0	5#1	18.45	19.79
	27025/847.5	1	1#5	19.52	20.86
		1	5#1	18.76	20.1
5MHz	26865/831.5	0	1#0	20.57	21.91
		0	5#1	19.32	20.66
	27015/846.5	0	1#5	20.24	21.58
		3	5#1	19.01	20.35
10MHz	26865/831.5	0	1#0	20.83	22.17
		0	4#0	20.42	21.76
	26990/844	4	1#5	20.68	22.02
		7	4#2	20.3	21.64
15MHz	26865/831.5	0	1#0	20.91	22.25
		0	5#1	20.48	21.82
	26965/841.5	8	1#5	20.54	21.88
		11	5#1	20.35	21.69

Part 90

CATM1 Band26	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				QPSK	QPSK
1.4MHz	26697/814.7	0	1#0	20.21	21.55
		0	6#0	18.14	19.48
3MHz	26705/815.5	0	1#0	20.65	21.99
		0	6#0	18.43	19.77
5MHz	26715/816.5	3	1#0	20.01	21.35
		0	6#0	19.02	20.36
10MHz	26740/819	3	1#0	20.07	21.41
		0	4#0	19.98	21.32
15MHz	26765/821.5	3	1#0	20.07	21.41
		0	6#0	19.96	21.3



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

CATM1 Band26	Channel/ Frequency(MHz)	Index	RB# Rbstart	Conducted Power (dBm)	EIRP (dBm)
				16QAM	16QAM
1.4MHz	26697/814.7	0	1#0	18.96	20.3
		0	5#1	18.03	19.37
3MHz	26705/815.5	0	1#0	19.03	20.37
		0	5#1	18.17	19.51
5MHz	26715/816.5	3	1#0	20.35	21.69
		0	5#1	18.97	20.31
10MHz	26740/819	3	1#0	20.73	22.07
		0	4#0	20.11	21.45
15MHz	26765/821.5	3	1#0	20.67	22.01
		0	5#1	20.24	21.58

Note:

EIRP = Conducted power + antenna gain

ERP = EIRP -2.15

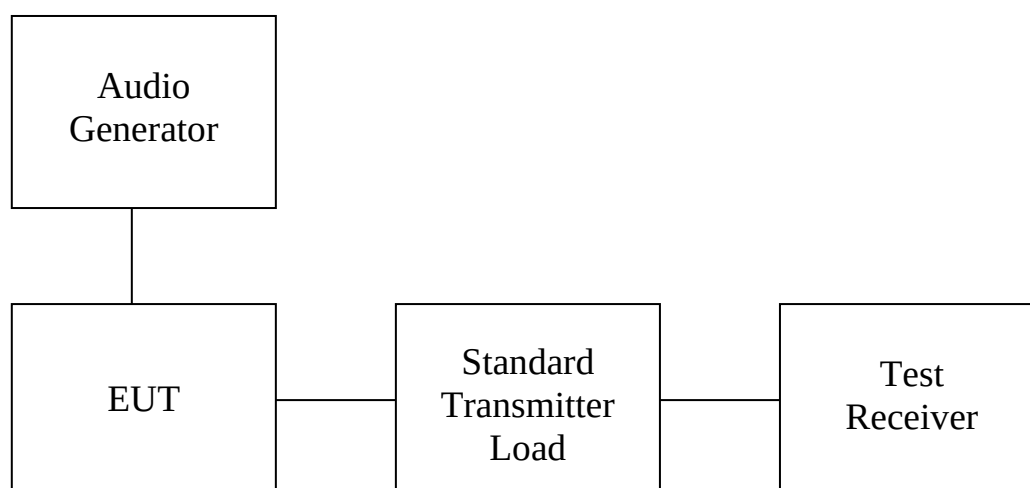
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

4 Modulation Characteristics

4.1 Test procedure

- ☐ A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.
- ☐ Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

For digital modulation employed, this test item is not applicable.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

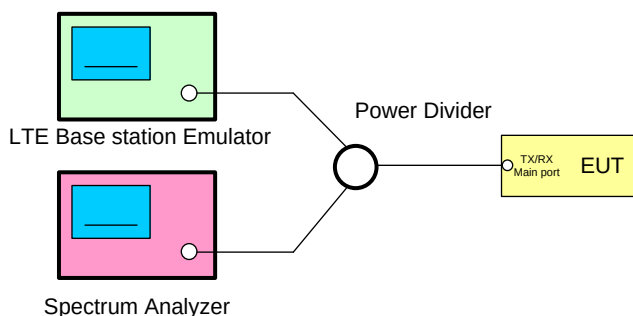
5 Peak-to-Average Ratio

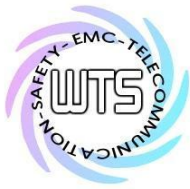
The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.1 Test procedure

1. The EUT main port was connected to the LTE emulator and spectrum analyzer via power divider
2. For Spectrum Analyzer setting :
3. Set the CCDF function in spectrum analyzer.
4. Set RBW $\geq$ signal's occupied bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the measurement interval (sweep time) to 1ms.
7. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%
8. Record the deviation as Peak to Average Ratio.

5.2 Test Set up





Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

5.3 Test Results

Test date: October 11, 2024

Temperature: 24.5 °C

Humidity: 54.7 %

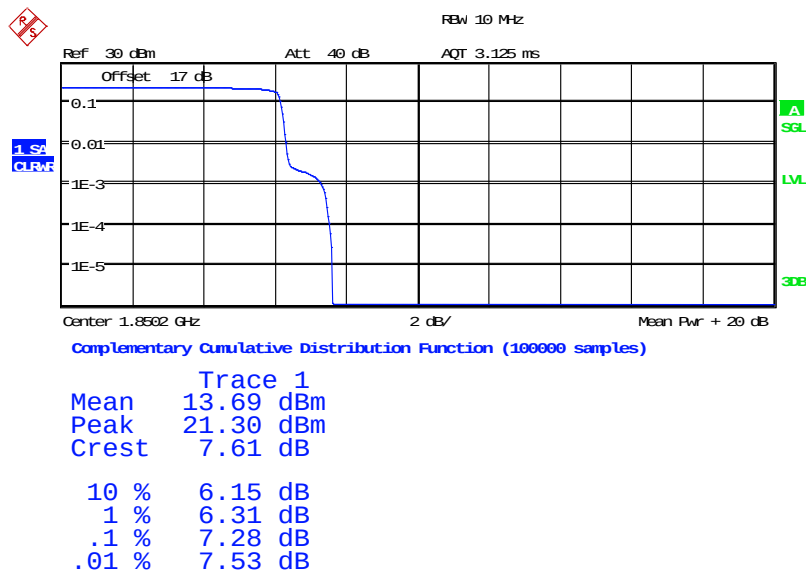
Tester: Rick

NB-IOT

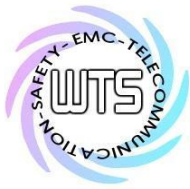
Band 2

5 MHz

BPSK

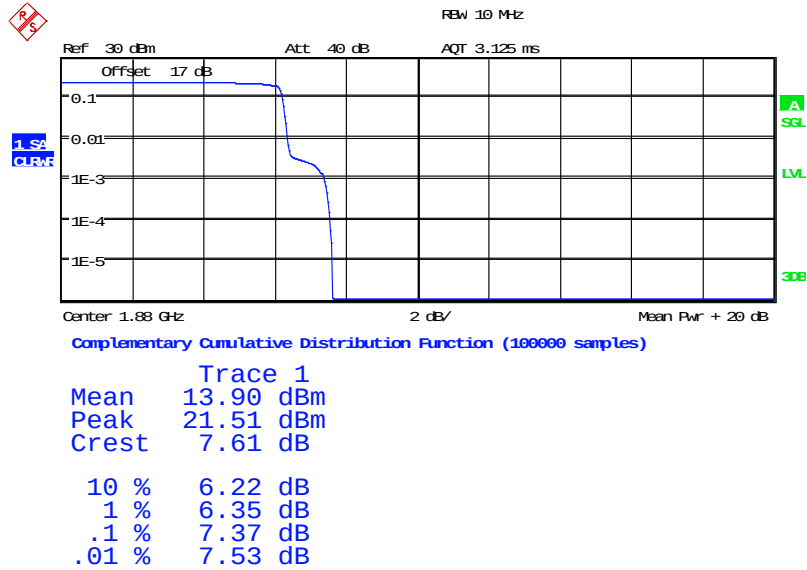


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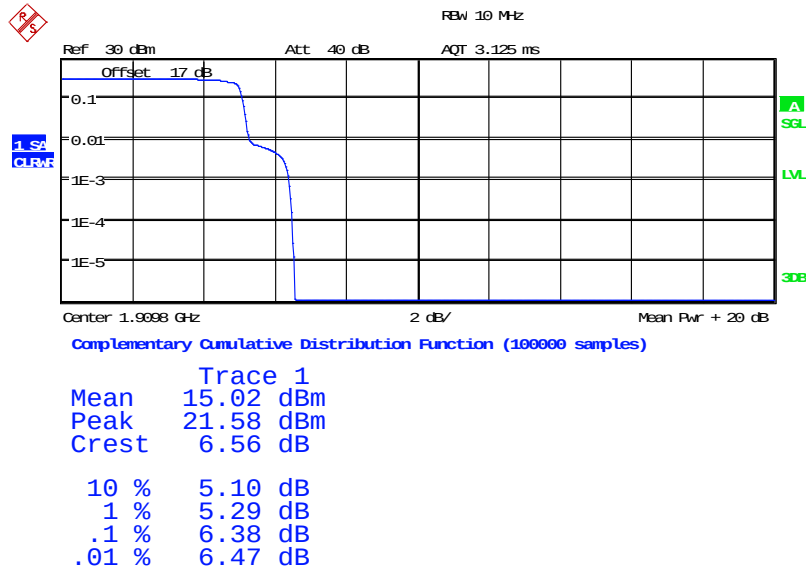


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



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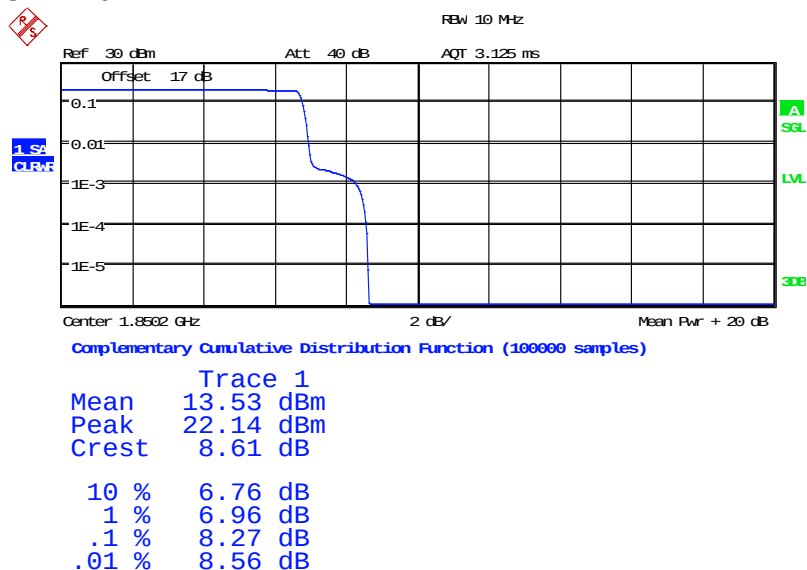


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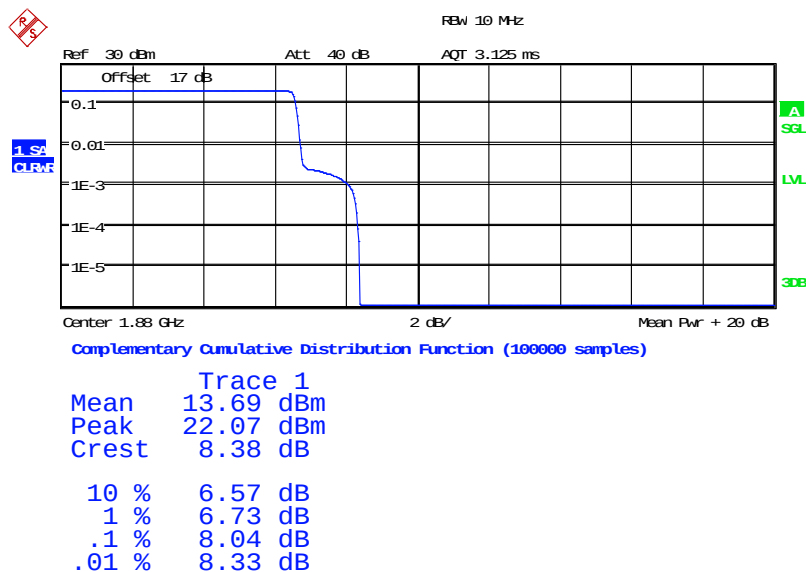


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



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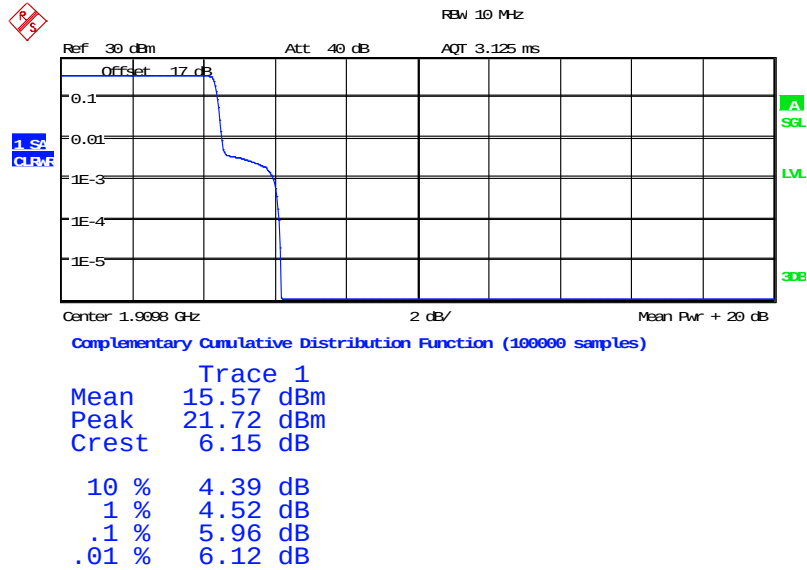


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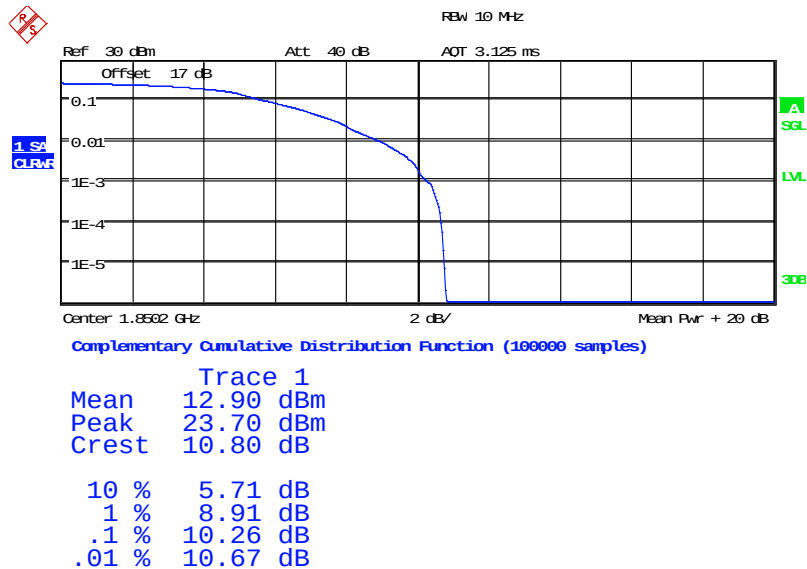
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 20:19:14

QPSK

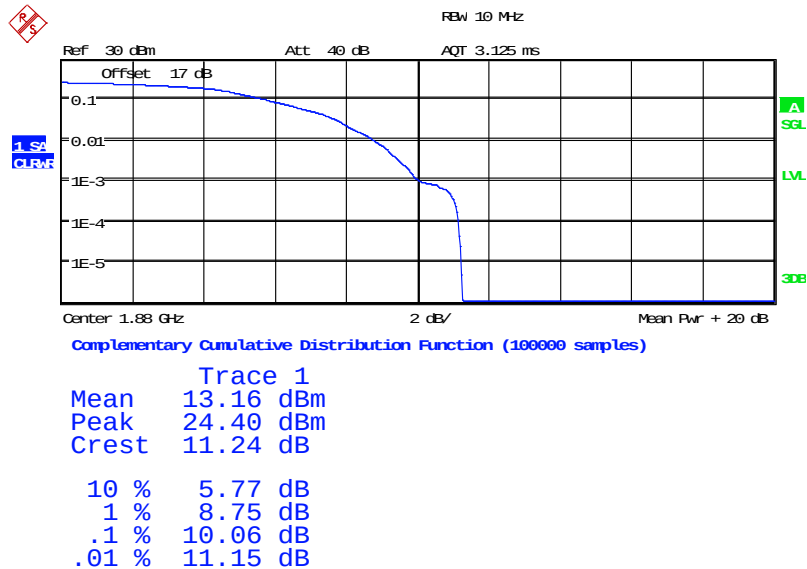


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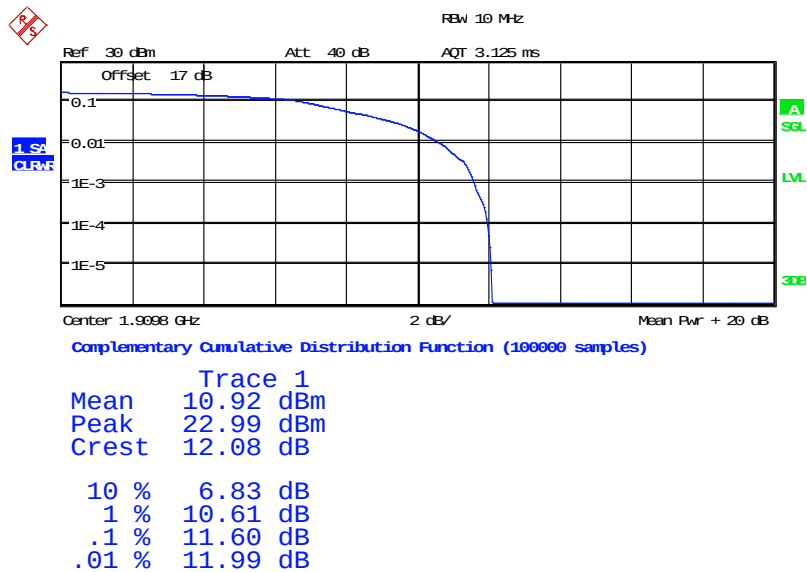


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



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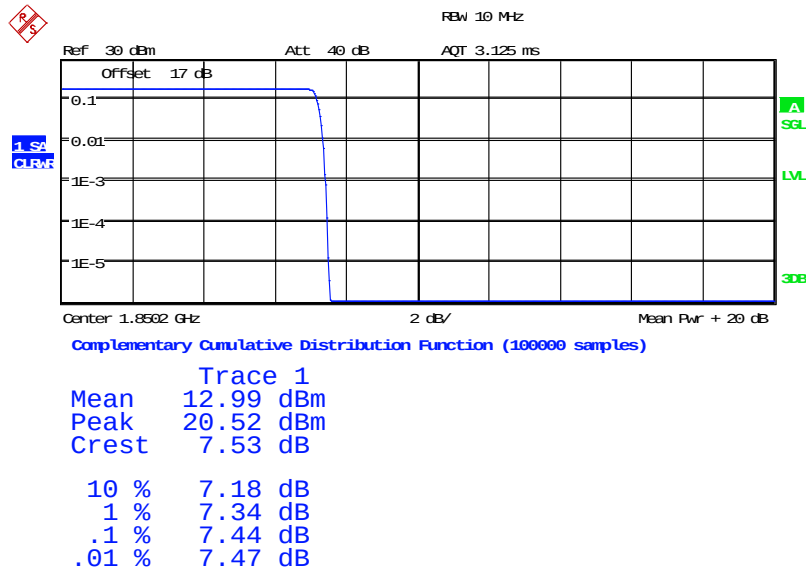


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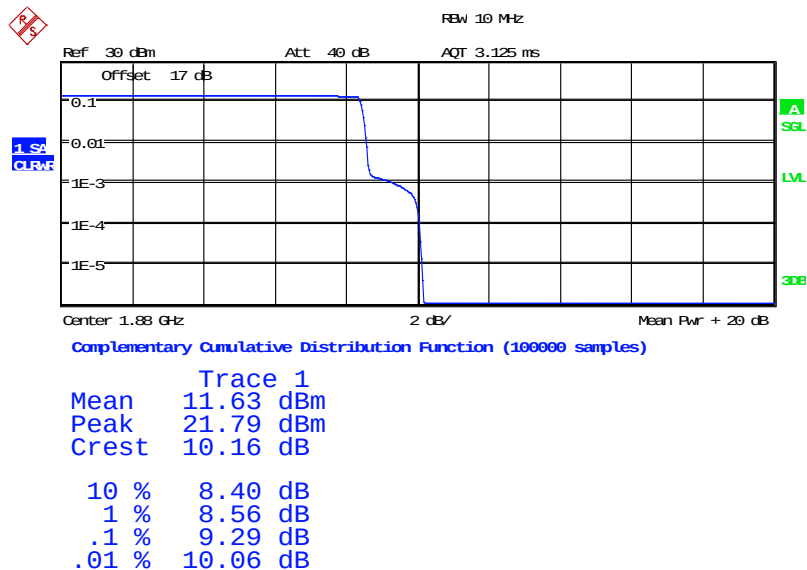


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 20:06:06

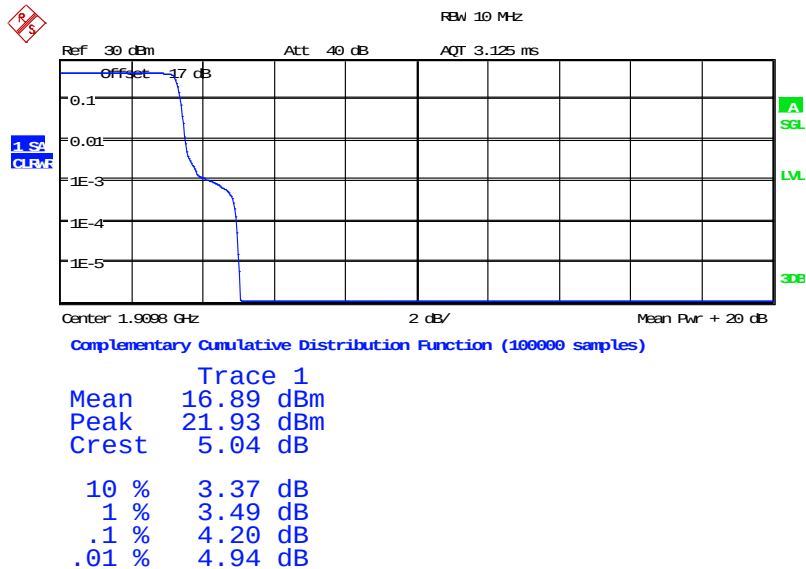


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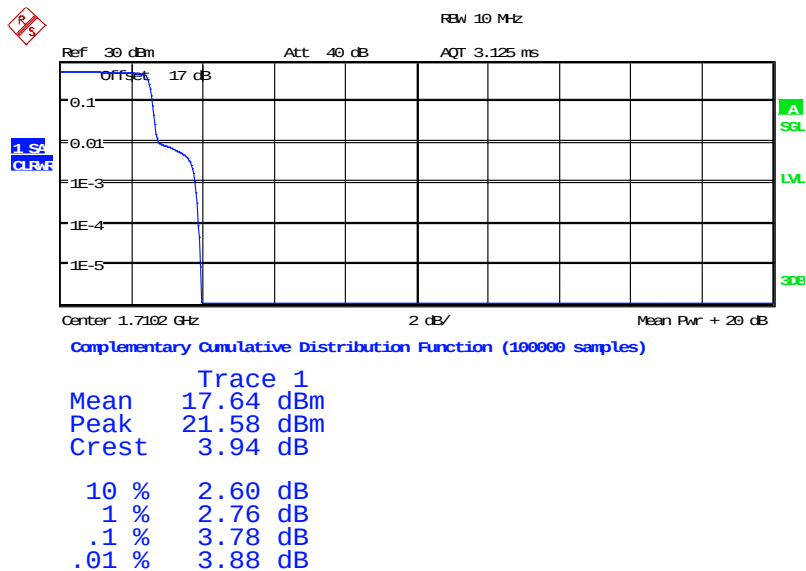
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 20:18:30

Band 4
5 MHz
BPSK

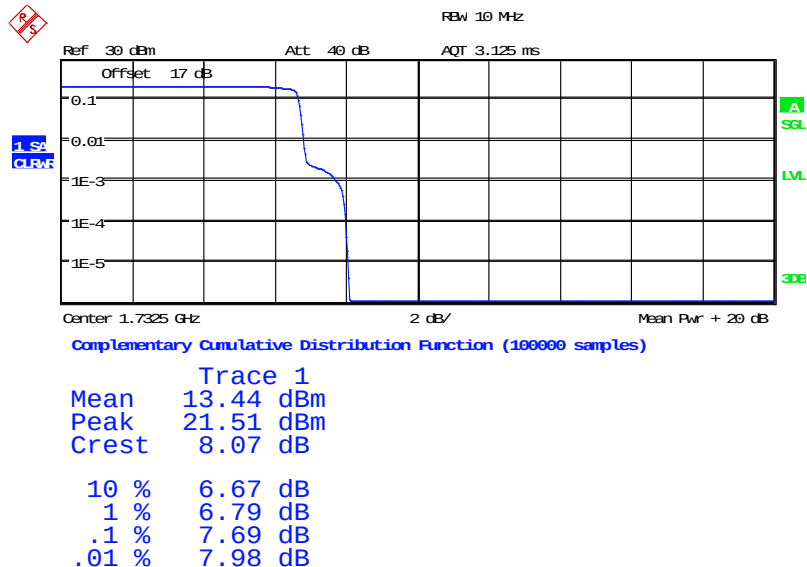


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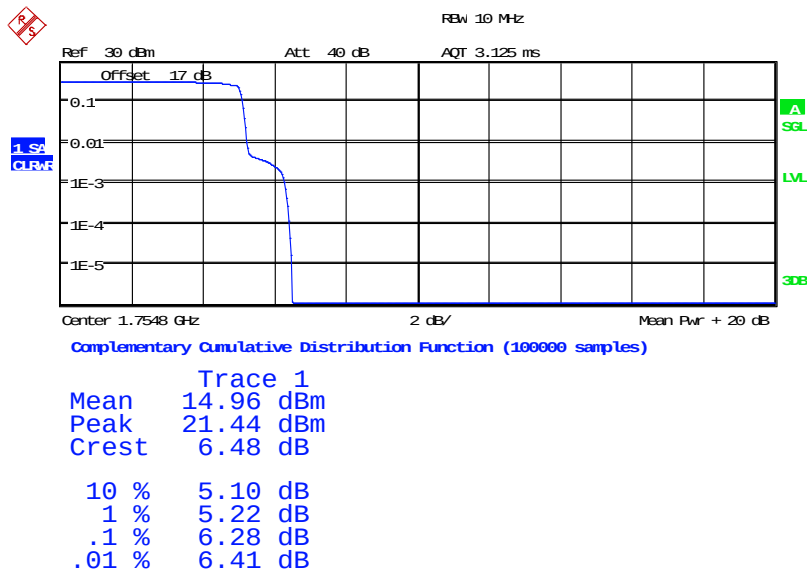


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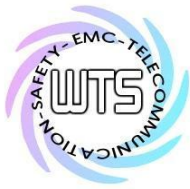
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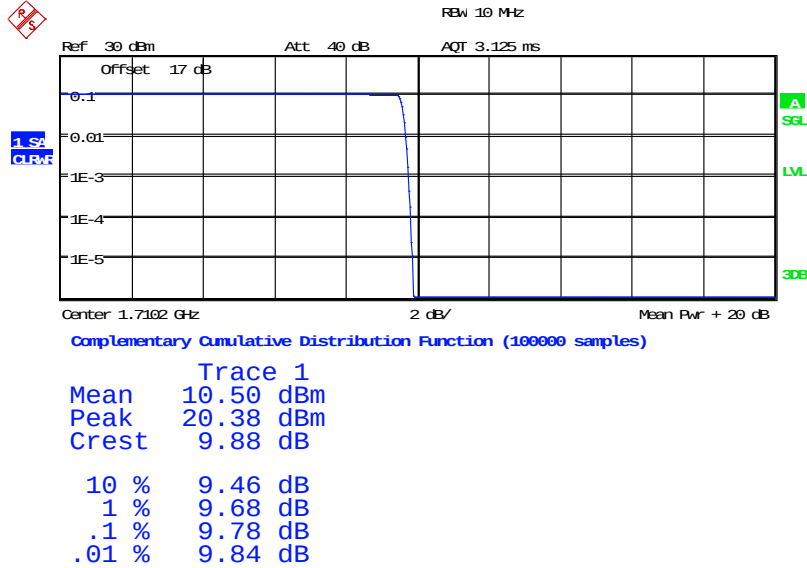


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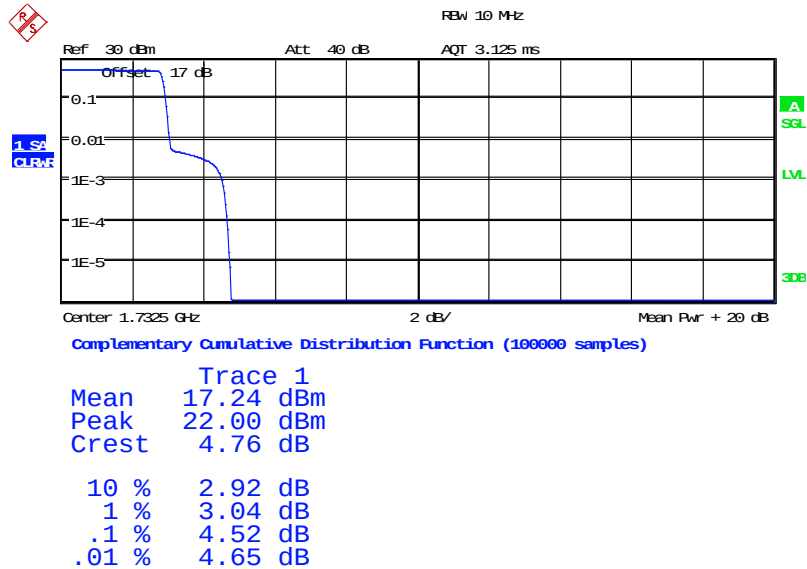


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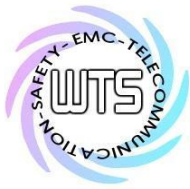
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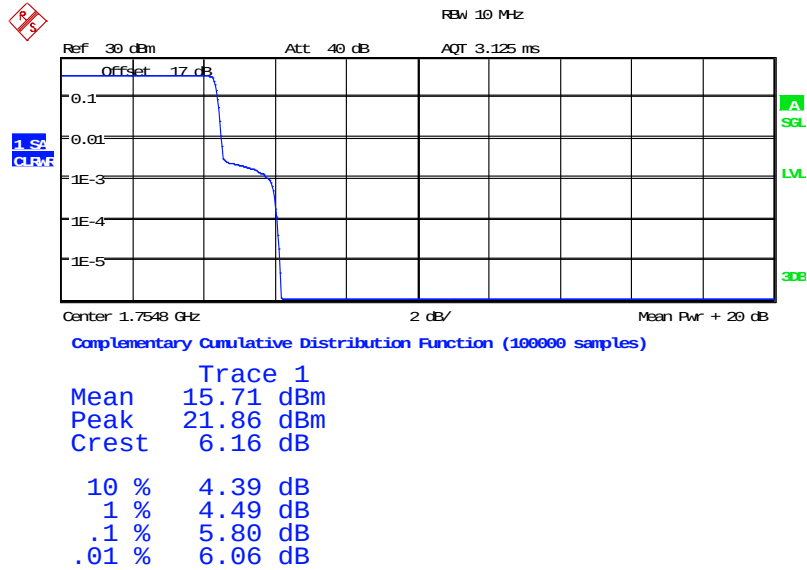


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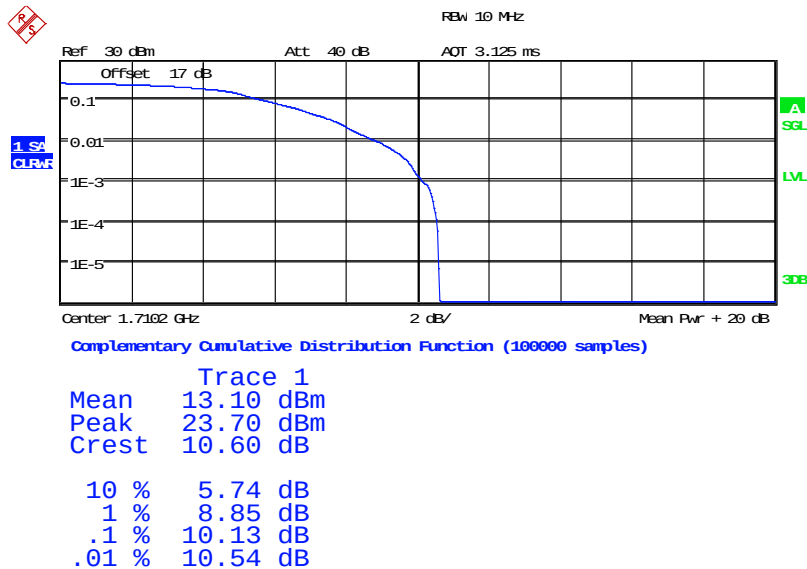
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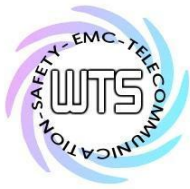


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QPSK

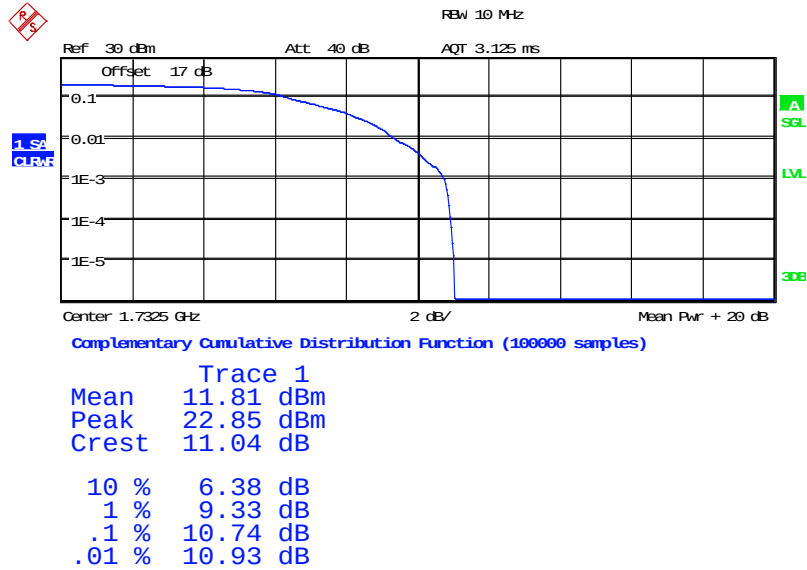


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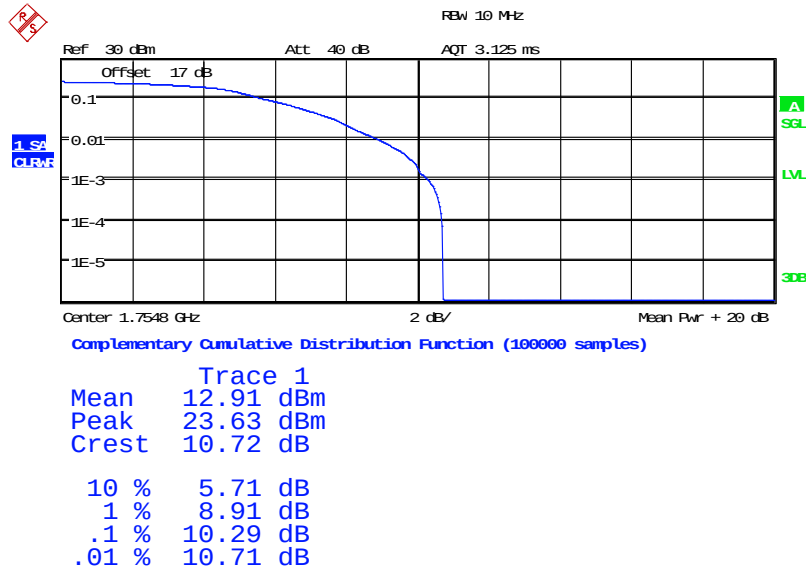


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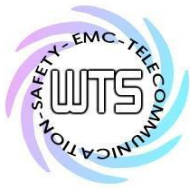
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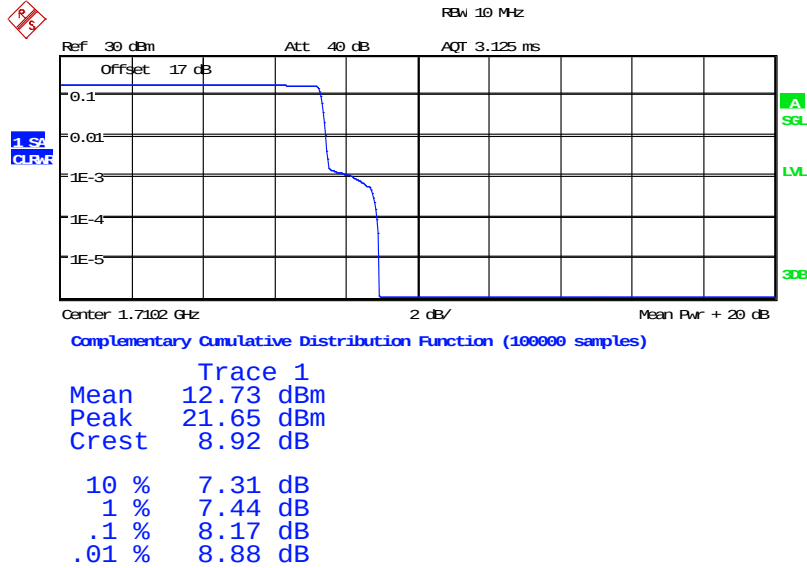


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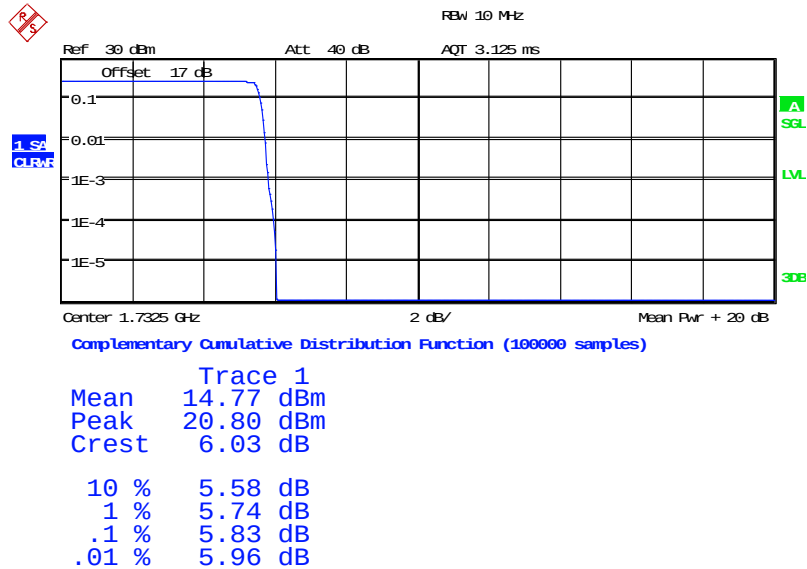


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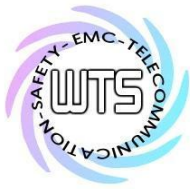
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Date: 10.OCT.2024 19:39:08

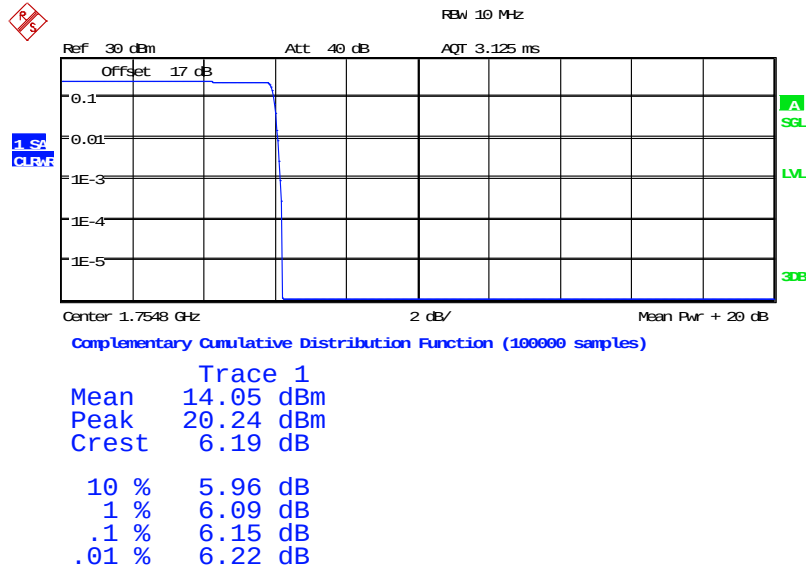


Date: 10.OCT.2024 19:29:44



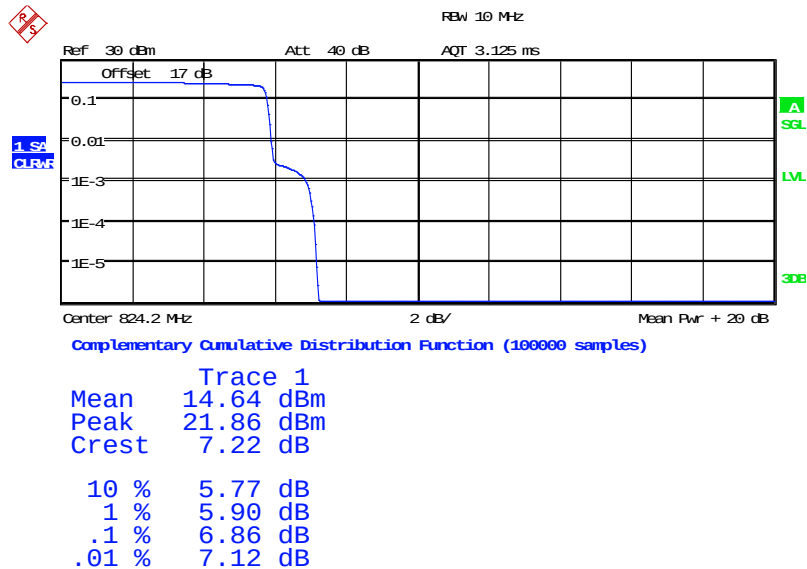
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 19:45:06

Band 5
5 MHz
BPSK

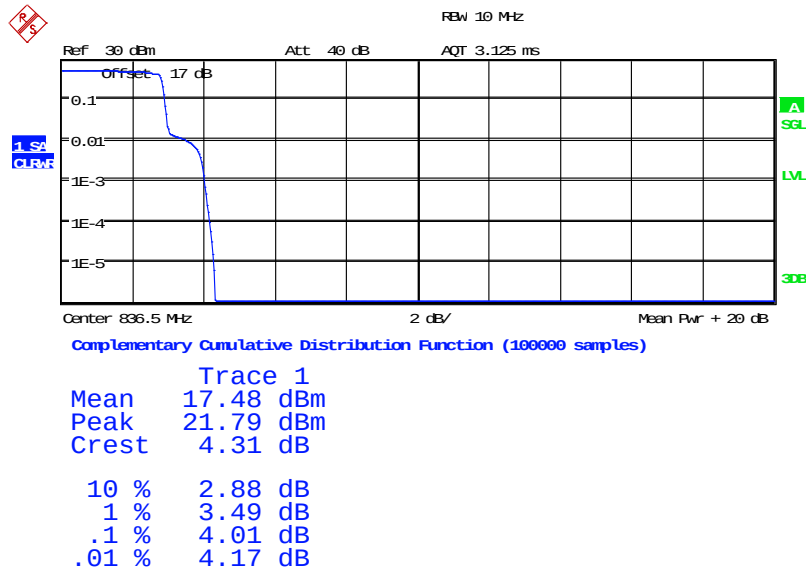


Date: 11.OCT.2024 14:13:59

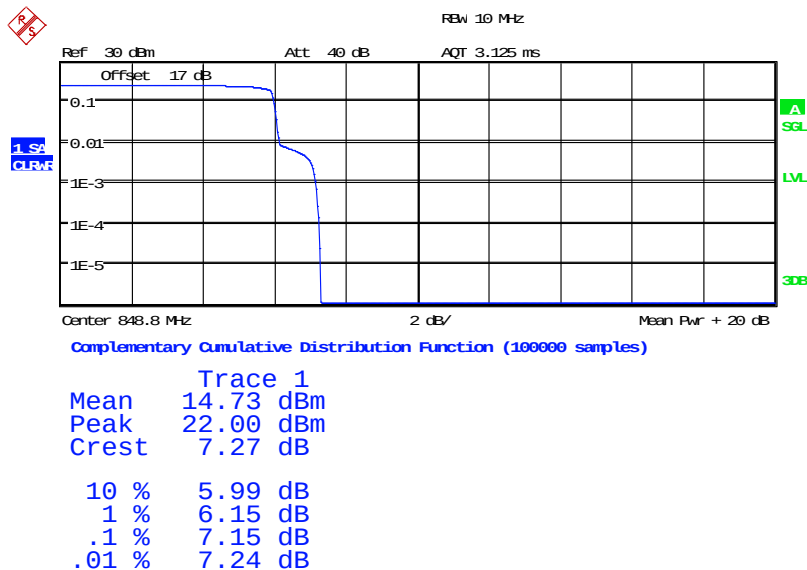


Registration number: W6M22409-23713-C-247

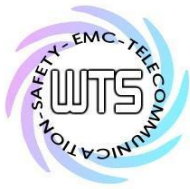
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:05:18

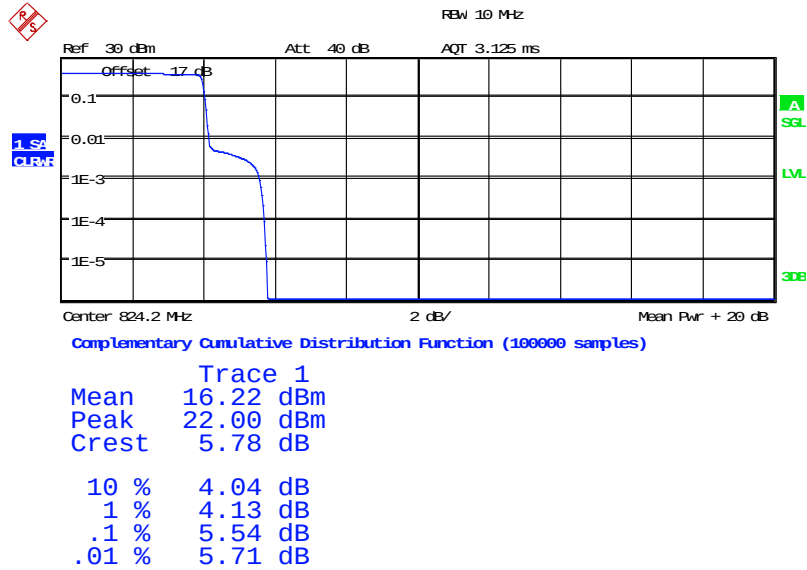


Date: 11.OCT.2024 14:21:43

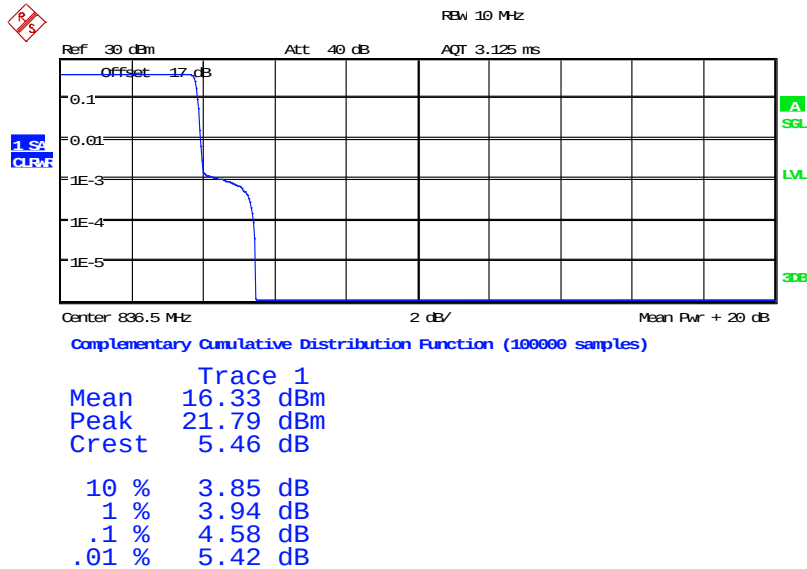


Registration number: W6M22409-23713-C-247

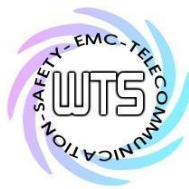
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:13:10

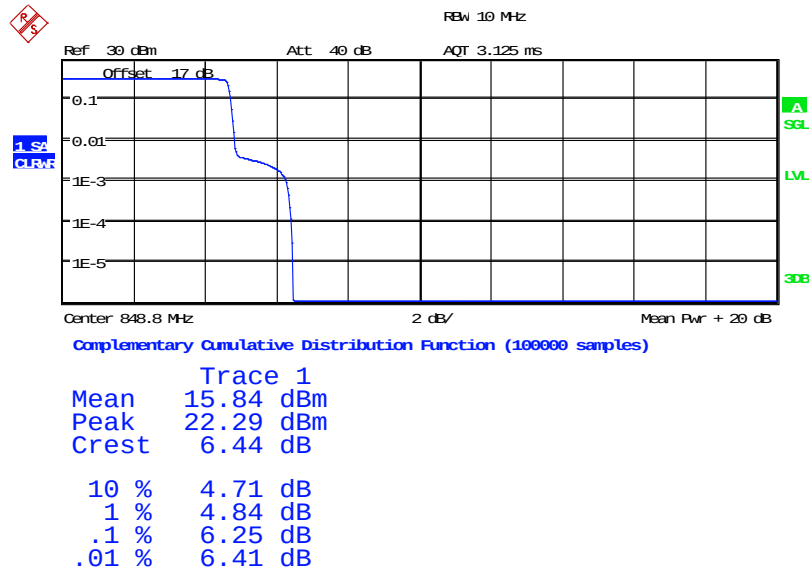


Date: 11.OCT.2024 14:08:43



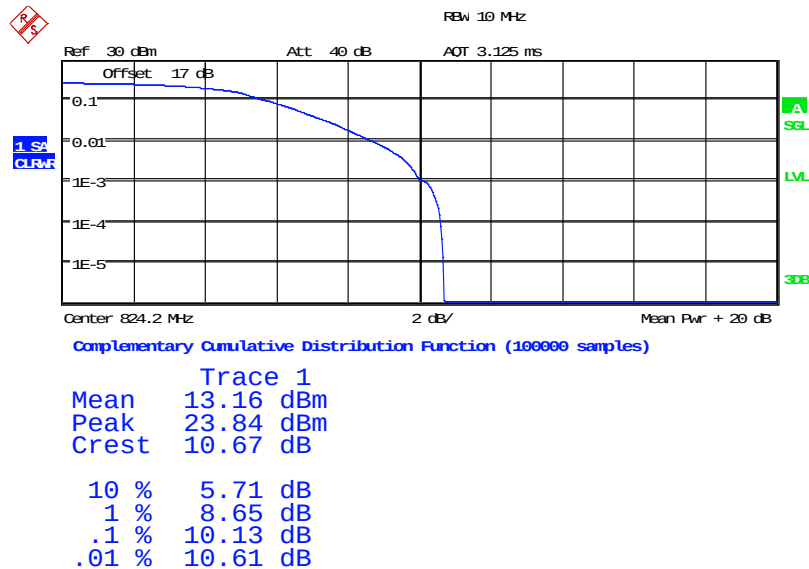
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

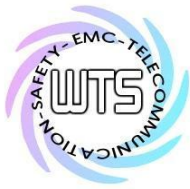


Date: 11.OCT.2024 14:25:06

QPSK

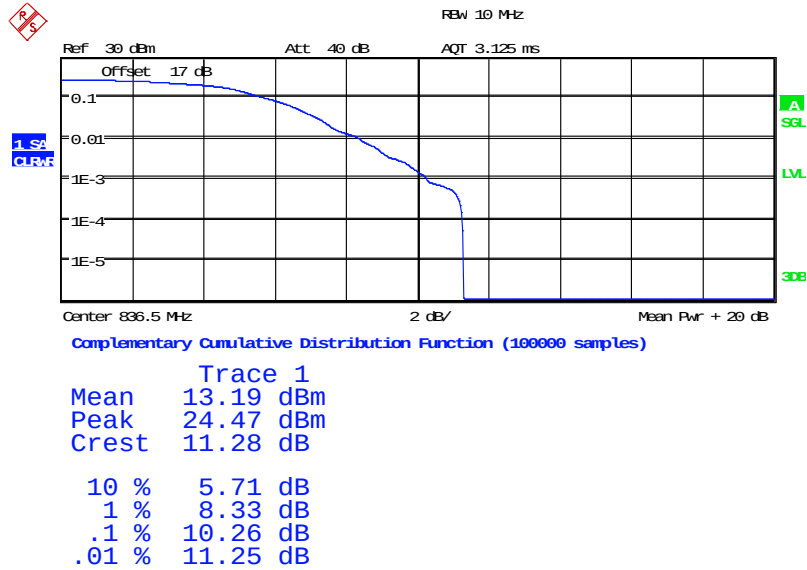


Date: 11.OCT.2024 14:19:21

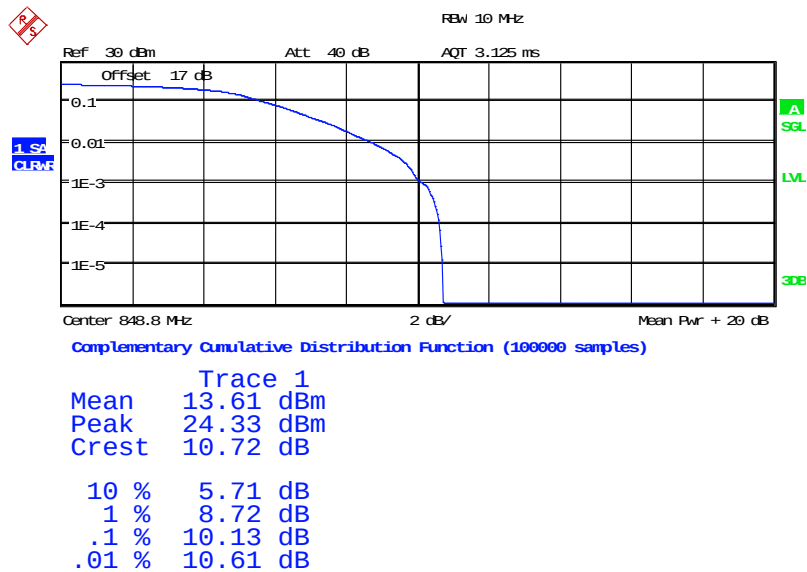


Registration number: W6M22409-23713-C-247

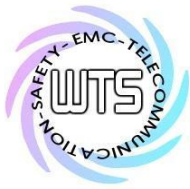
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:06:26

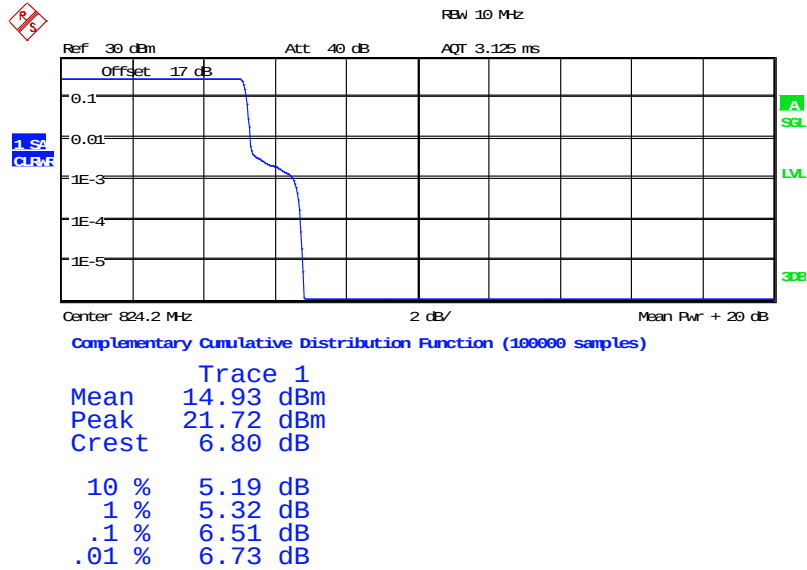


Date: 11.OCT.2024 14:20:44

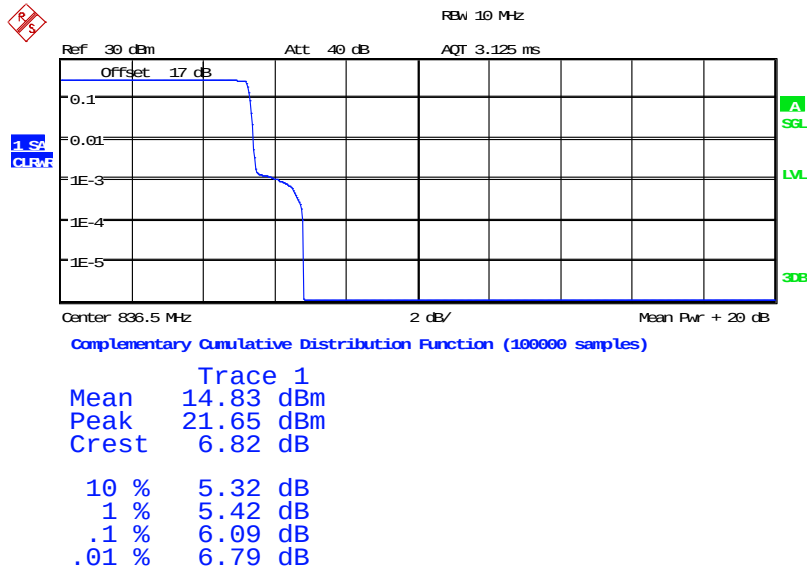


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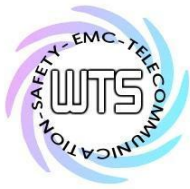
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:12:14

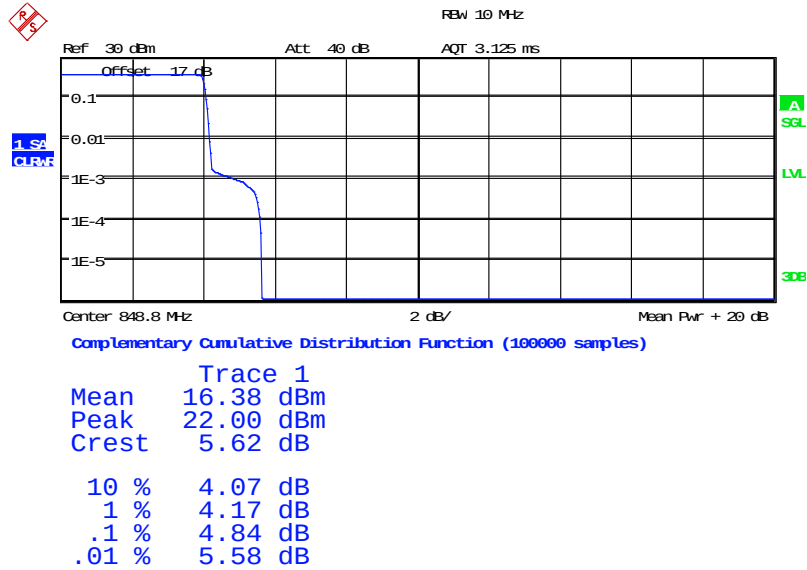


Date: 11.OCT.2024 14:09:31



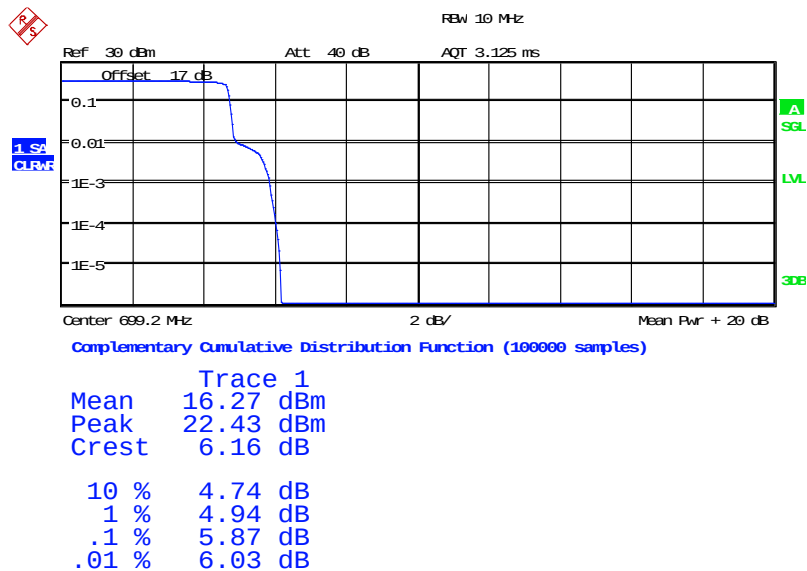
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

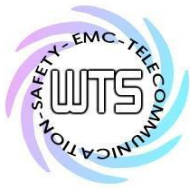


Date: 11.OCT.2024 14:24:19

Band 12
5 MHz
BPSK

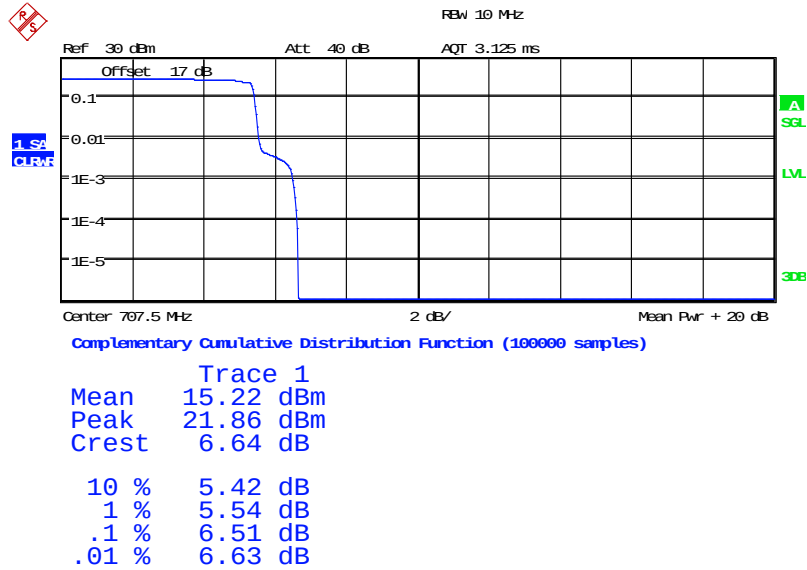


Date: 11.OCT.2024 13:46:52

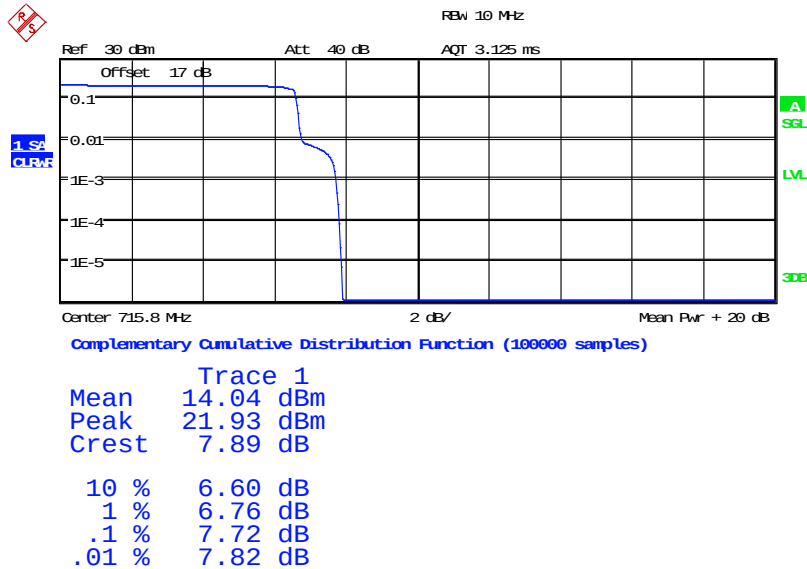


Registration number: W6M22409-23713-C-247

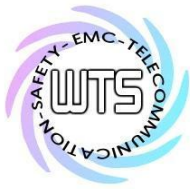
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 13:43:47

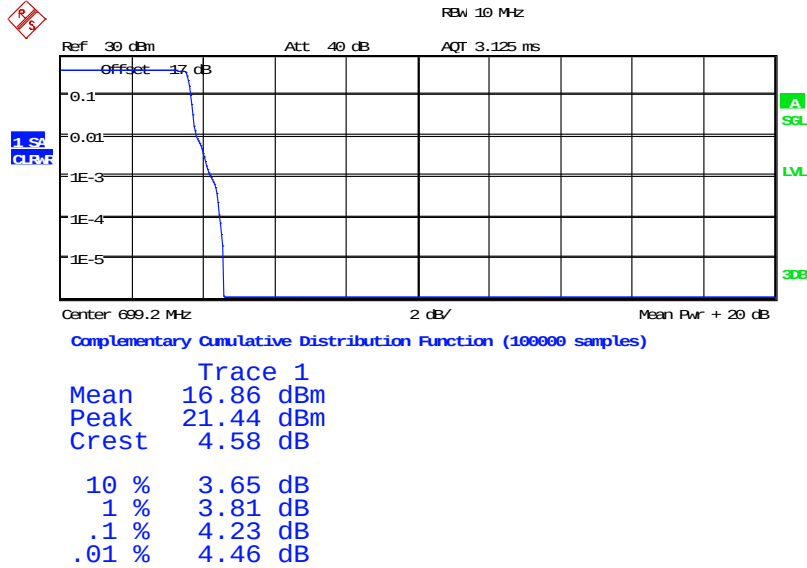


Date: 11.OCT.2024 14:01:42

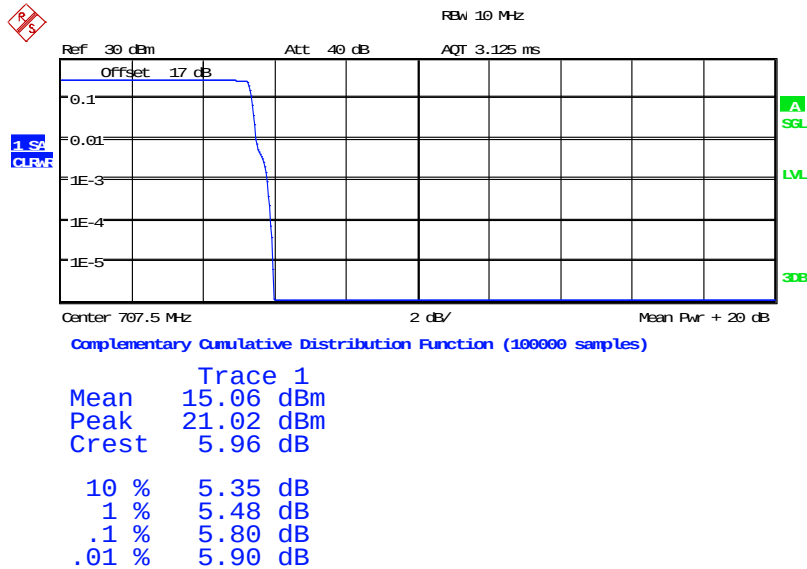


Registration number: W6M22409-23713-C-247

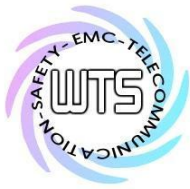
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 13:54:08

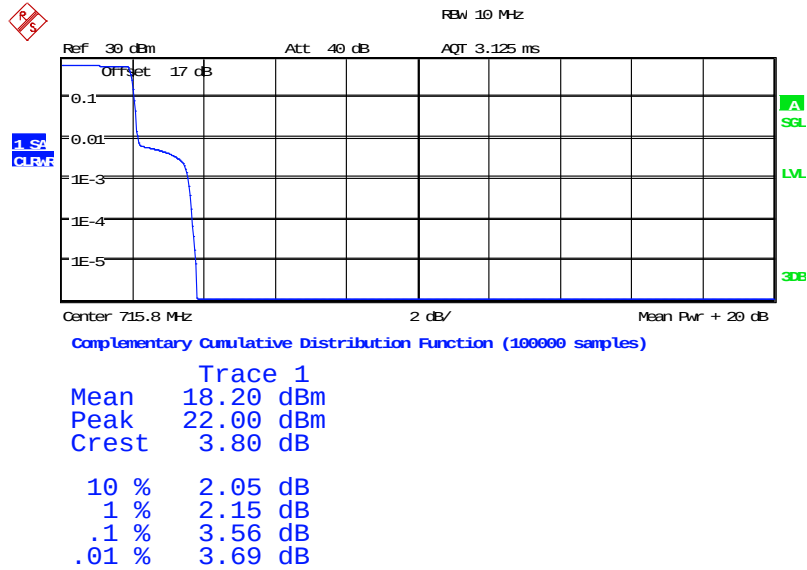


Date: 11.OCT.2024 13:42:43



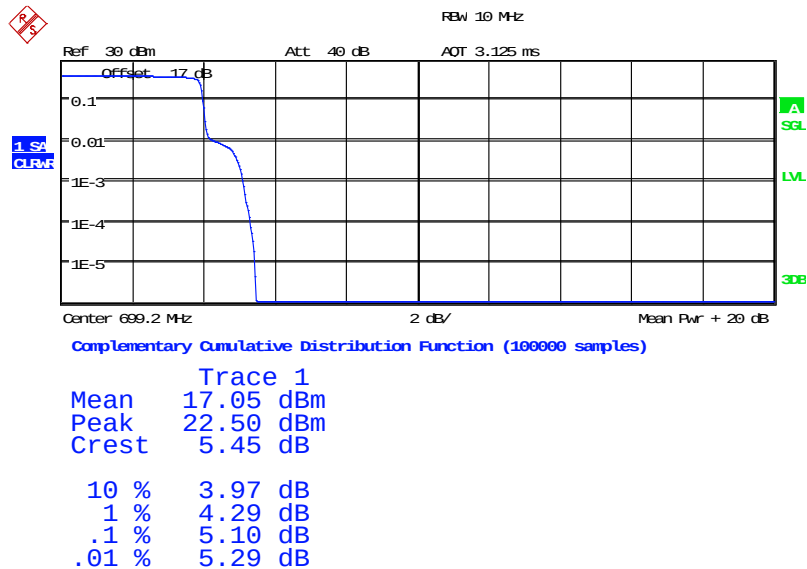
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

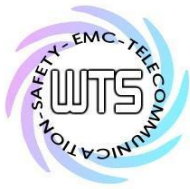


Date: 11.OCT.2024 13:58:45

QPSK

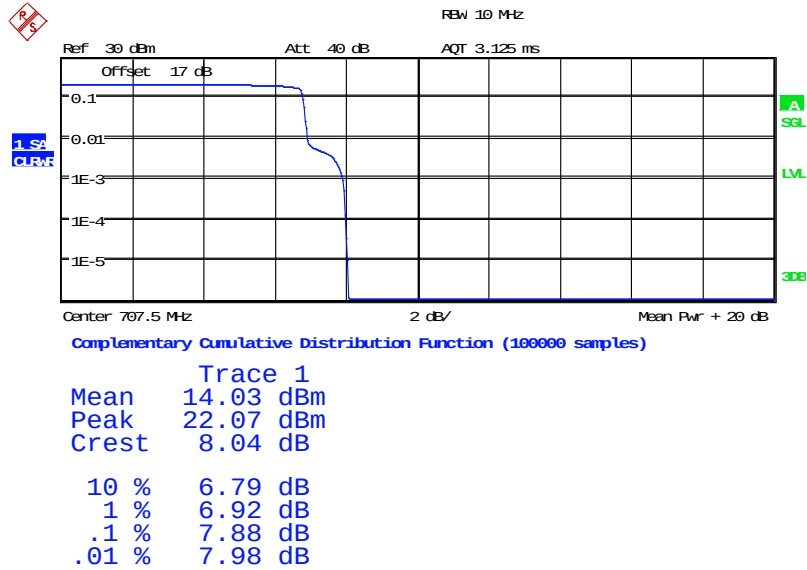


Date: 11.OCT.2024 13:45:43

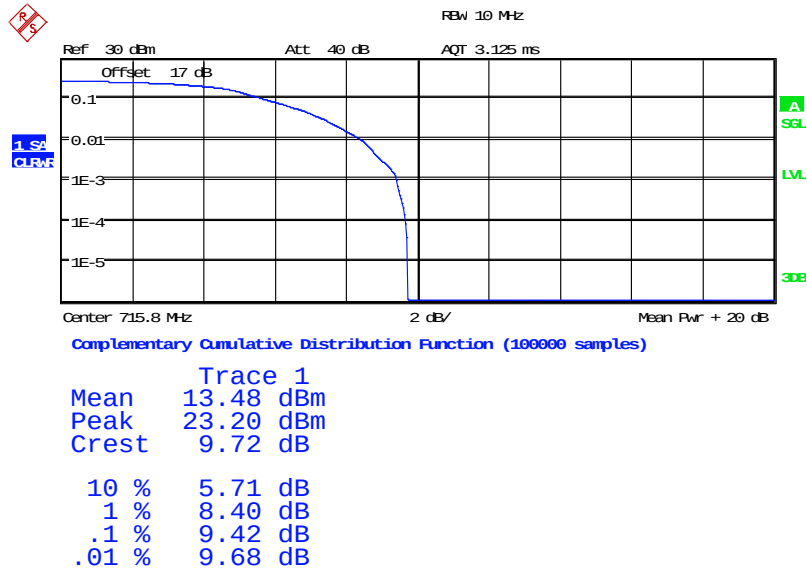


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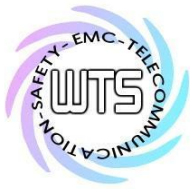
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 13:44:39

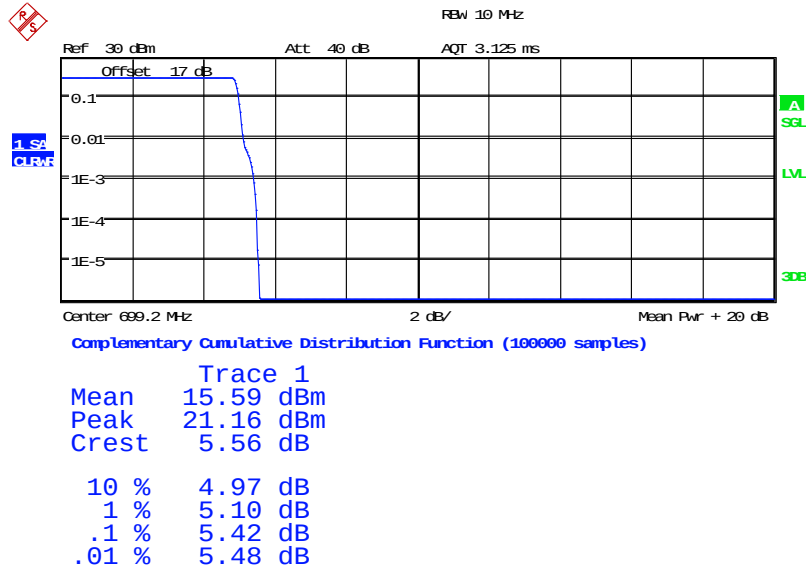


Date: 11.OCT.2024 14:01:01

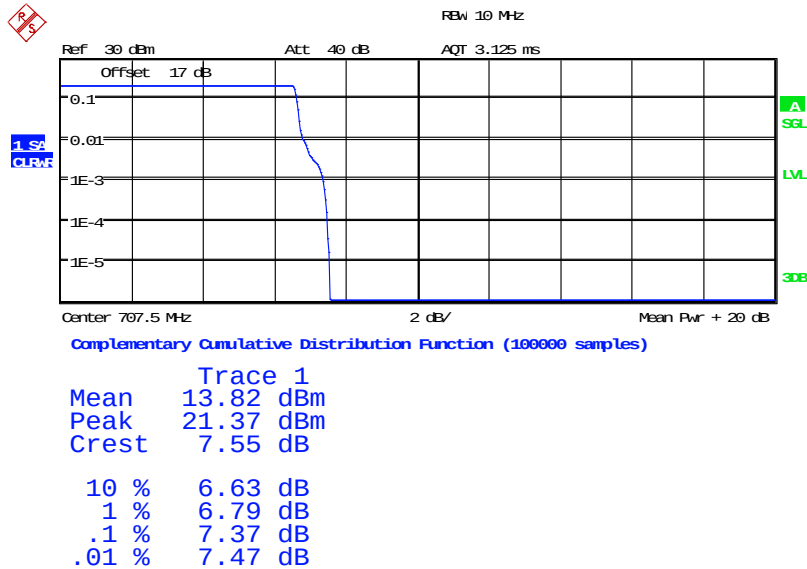


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 13:47:58

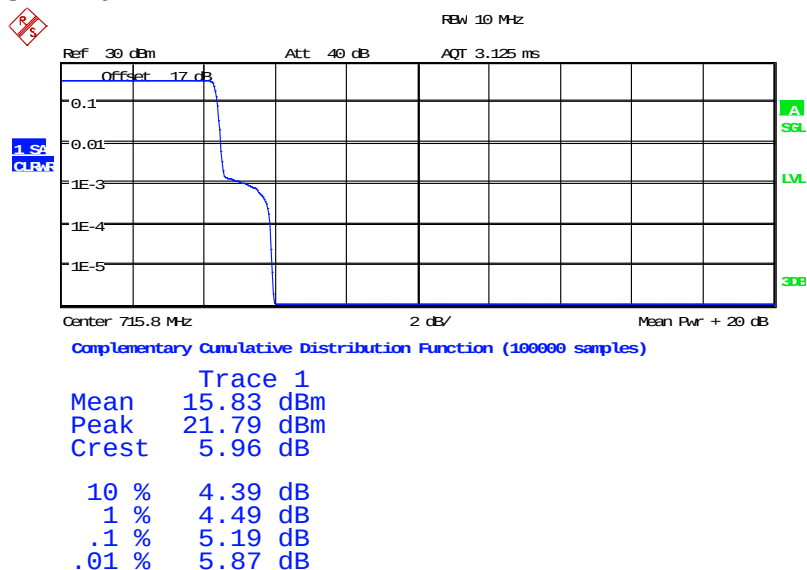


Date: 11.OCT.2024 13:42:08



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

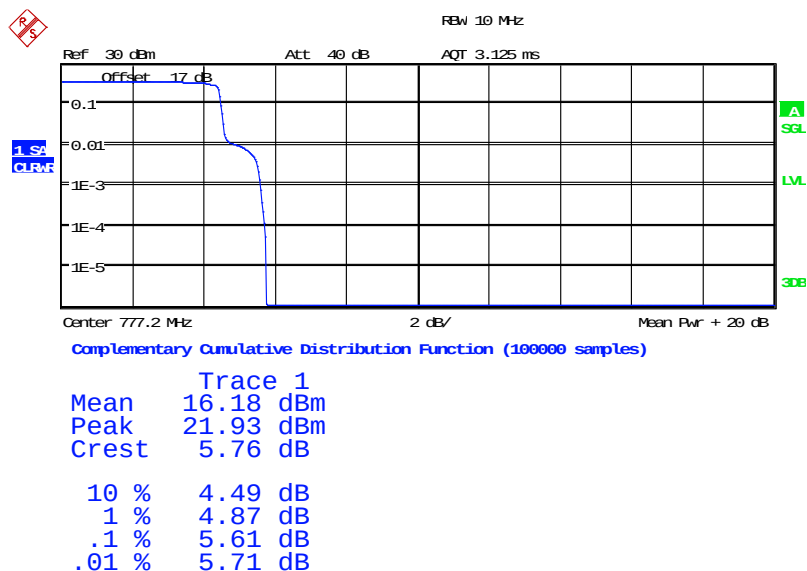


Date: 11.OCT.2024 13:59:25

Band 13

5 MHz

BPSK

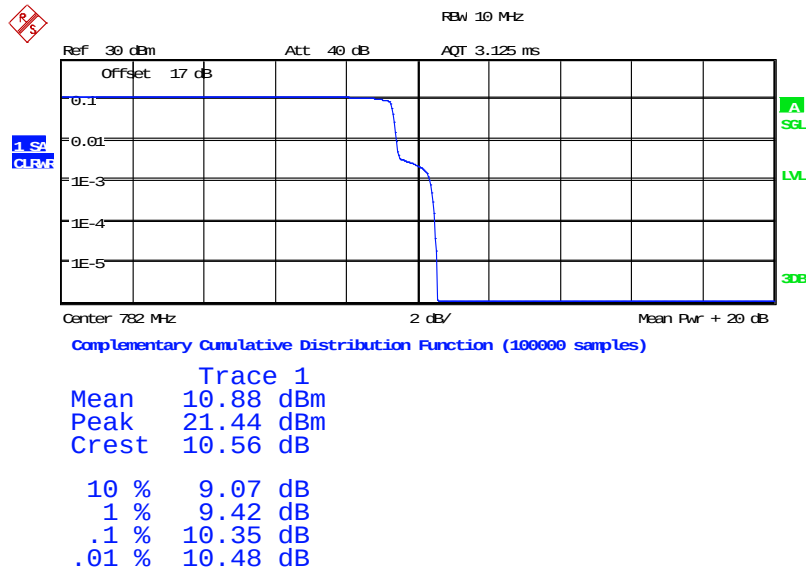


Date: 11.OCT.2024 14:52:11

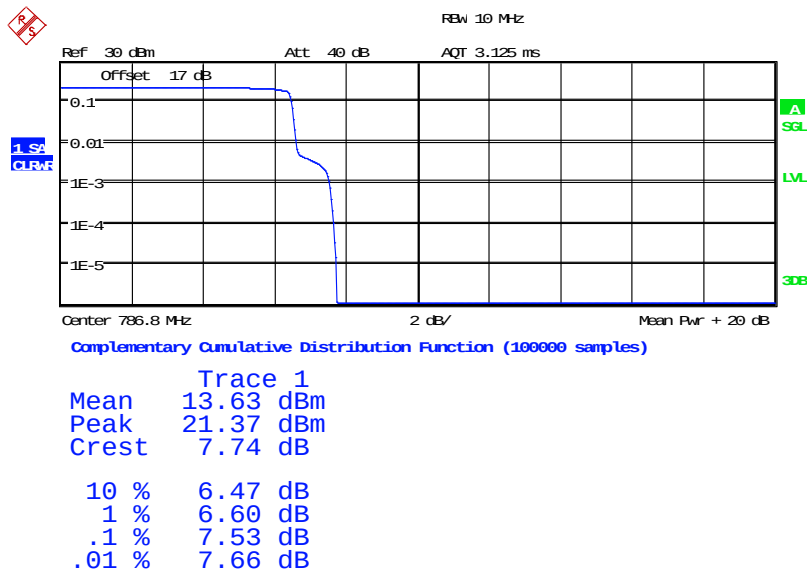


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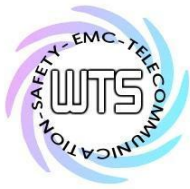
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:50:26

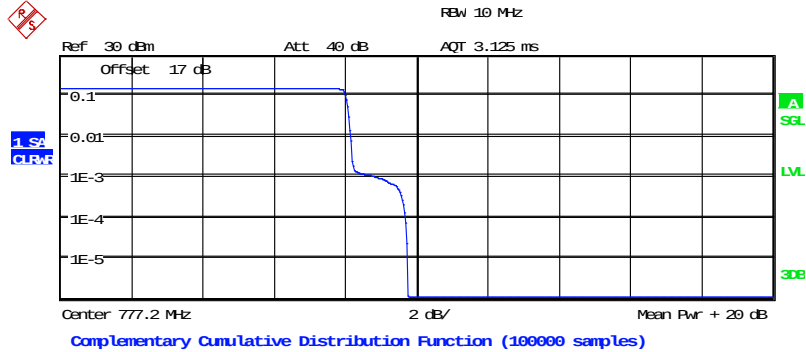


Date: 11.OCT.2024 15:00:33



Registration number: W6M22409-23713-C-247

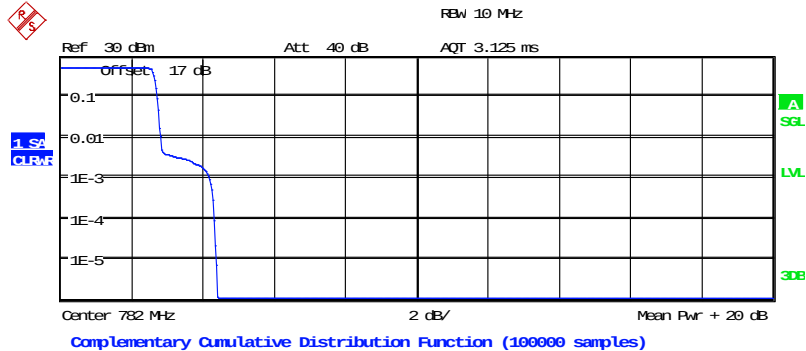
FCC ID: 2BAJFSN-EB01



Trace 1
Mean 12.26 dBm
Peak 22.00 dBm
Crest 9.74 dB

10 %	8.01 dB
1 %	8.17 dB
.1 %	8.85 dB
.01 %	9.68 dB

Date: 11.OCT.2024 14:55:02



Trace 1
Mean 17.46 dBm
Peak 21.86 dBm
Crest 4.40 dB

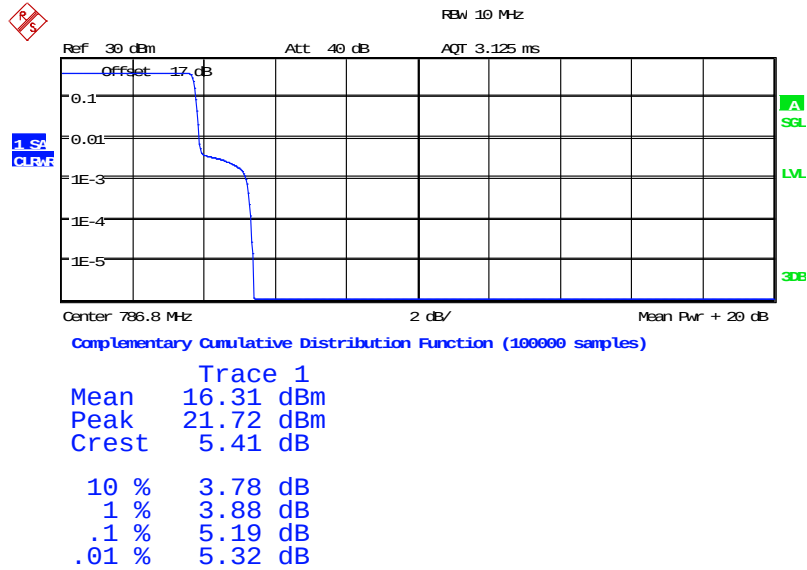
10 %	2.72 dB
1 %	2.82 dB
.1 %	4.17 dB
.01 %	4.33 dB

Date: 11.OCT.2024 14:47:36



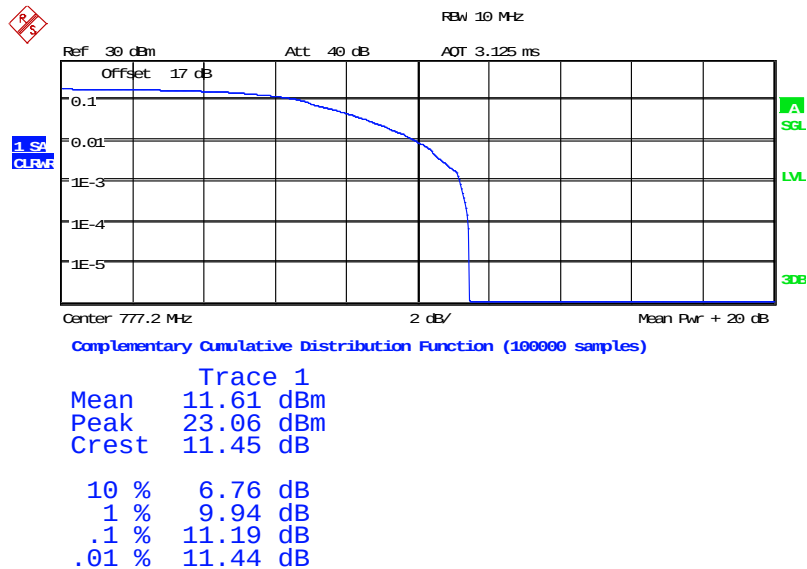
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

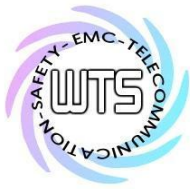


Date: 11.OCT.2024 14:56:20

QPSK

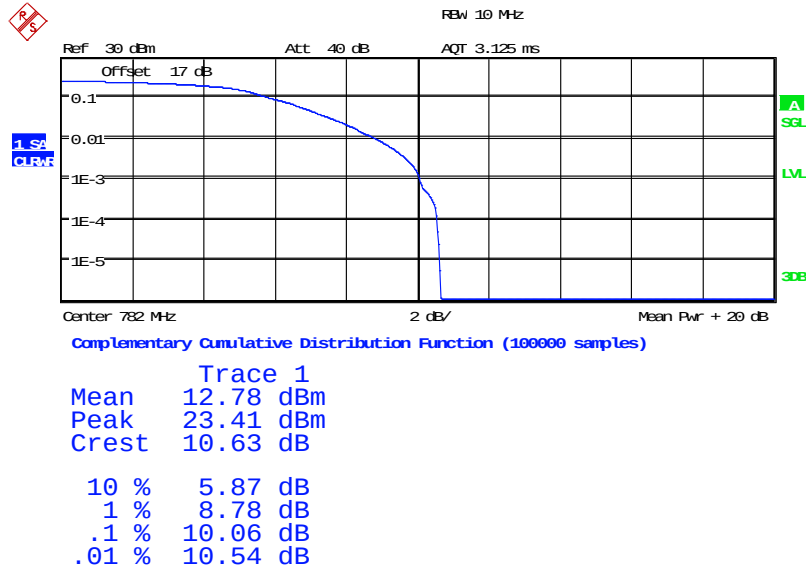


Date: 11.OCT.2024 14:52:59

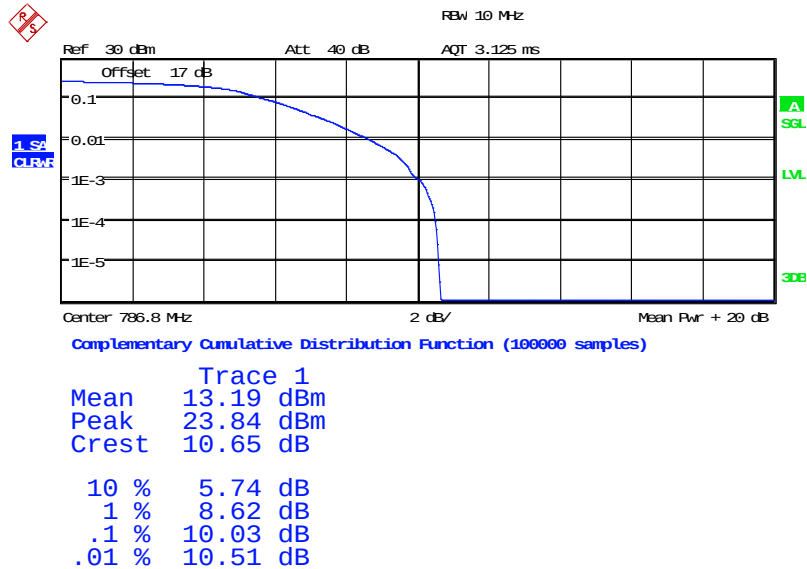


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:49:37

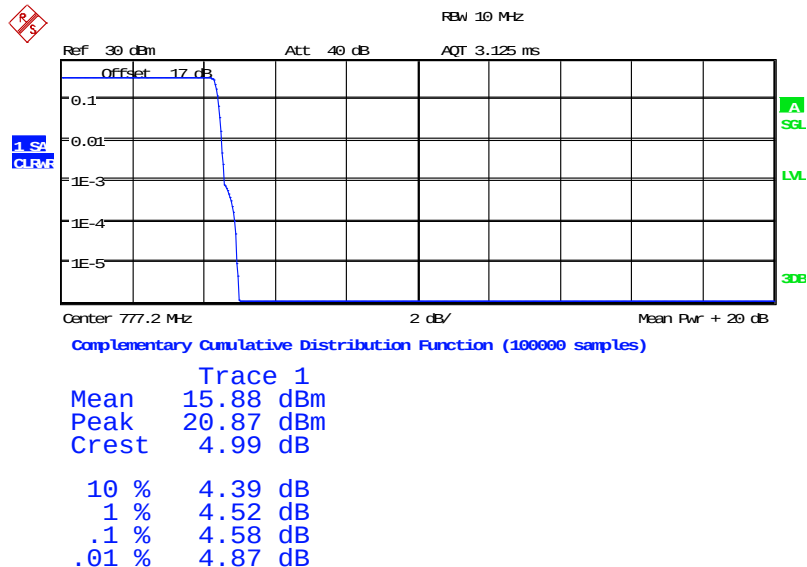


Date: 11.OCT.2024 15:01:30

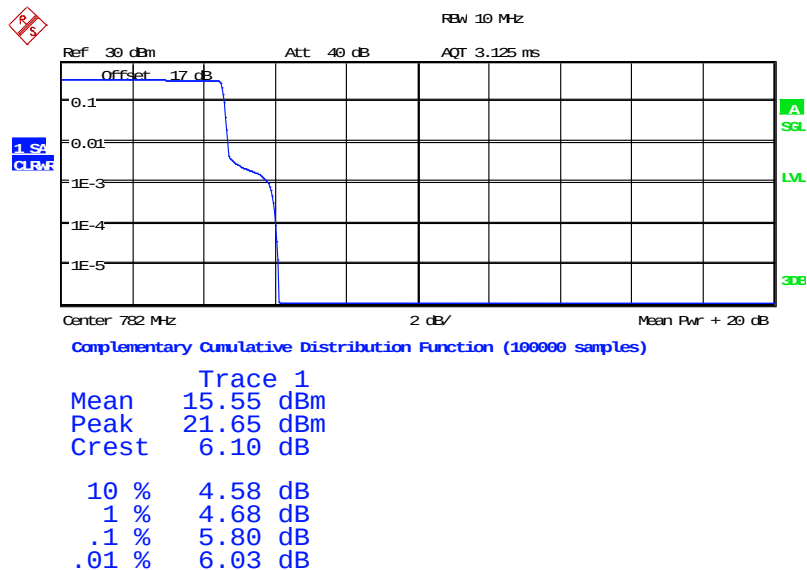


Registration number: W6M22409-23713-C-247

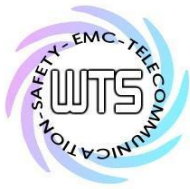
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 14:54:09

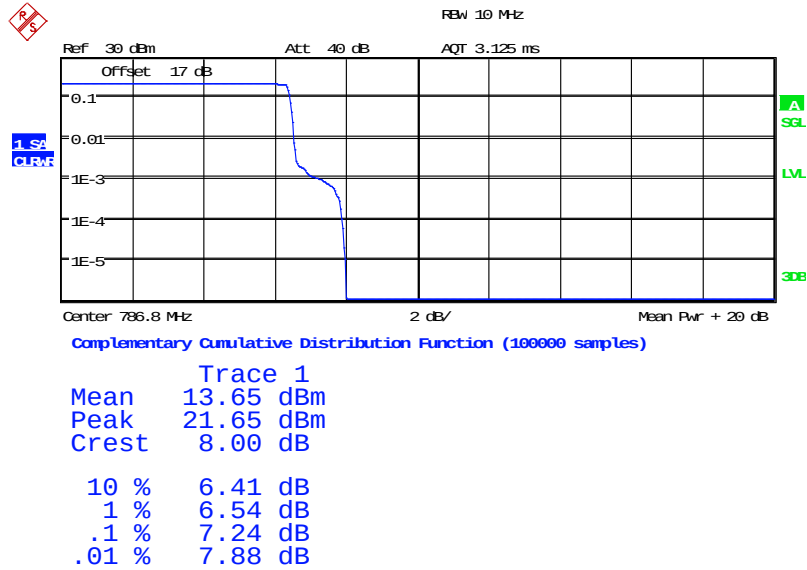


Date: 11.OCT.2024 14:48:31



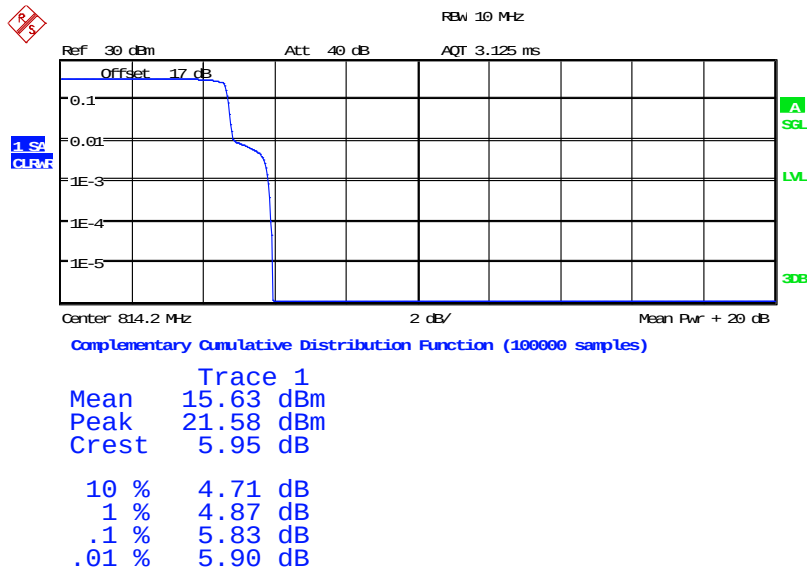
Registration number: W6M22409-23713-C-247

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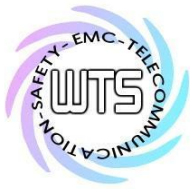


Date: 11.OCT.2024 14:57:22

Band 26
5 MHz
BPSK

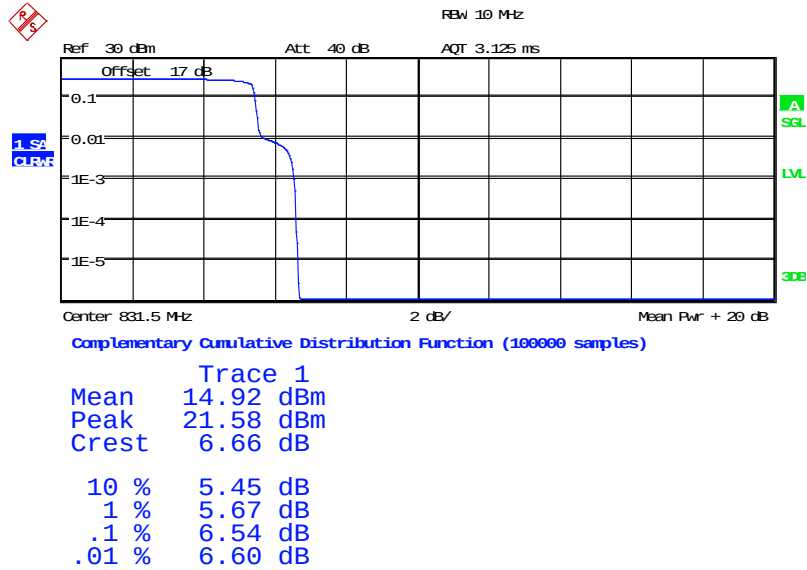


Date: 11.OCT.2024 15:20:31

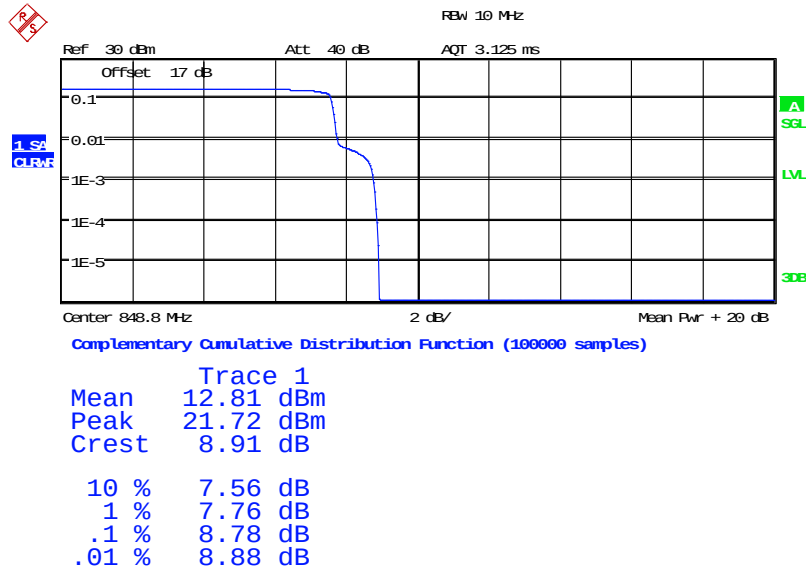


Registration number: W6M22409-23713-C-247

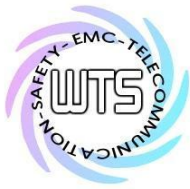
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:12:19

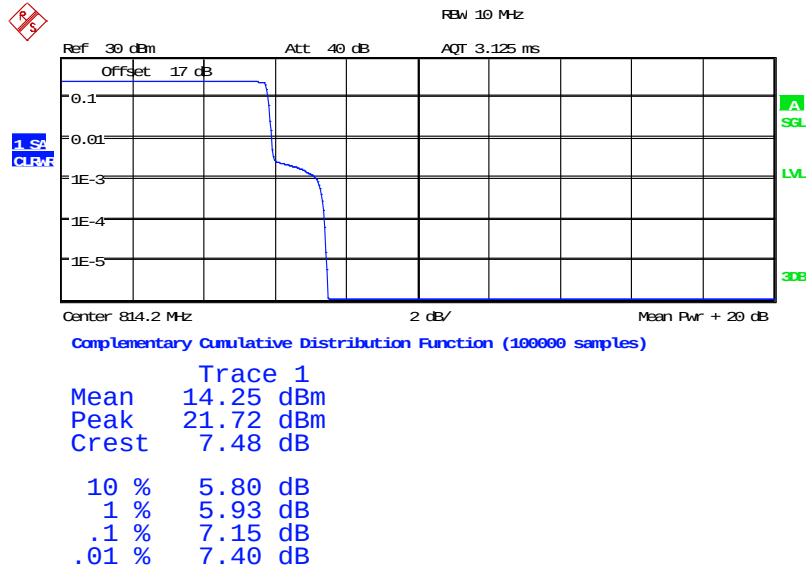


Date: 11.OCT.2024 15:22:09

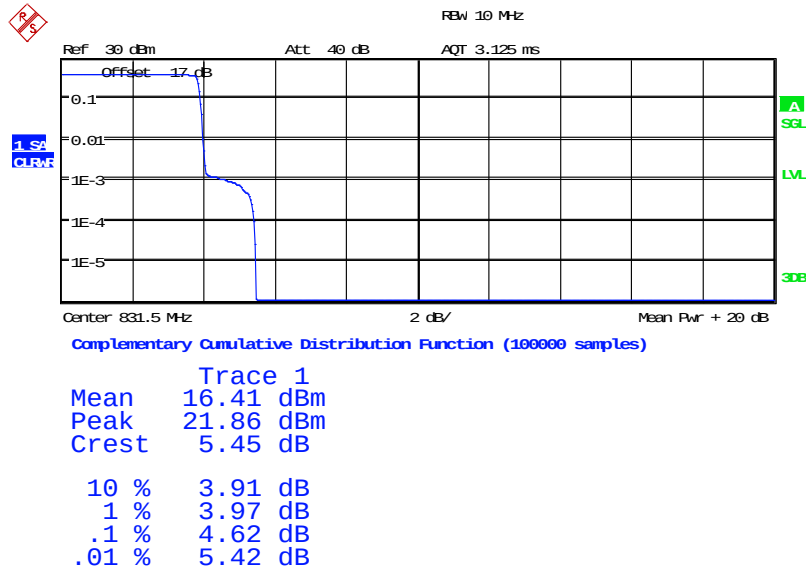


Registration number: W6M22409-23713-C-247

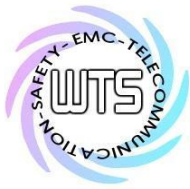
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:16:12

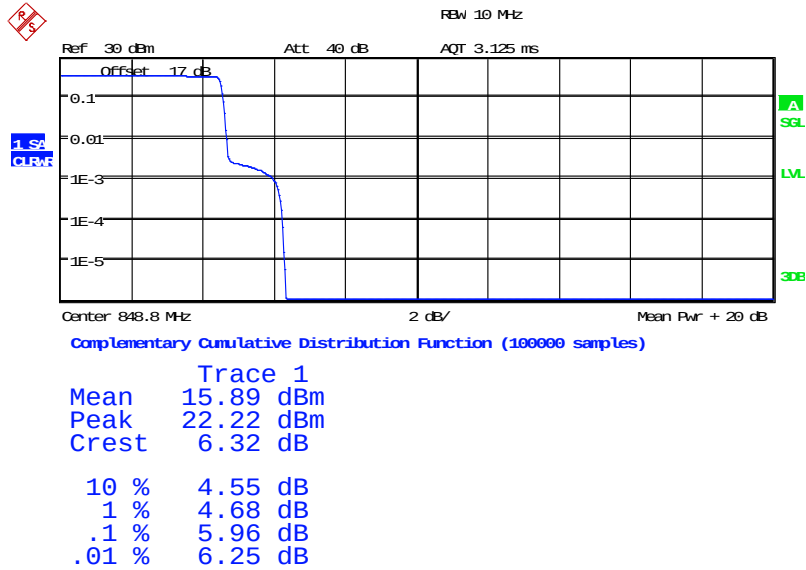


Date: 11.OCT.2024 15:14:32



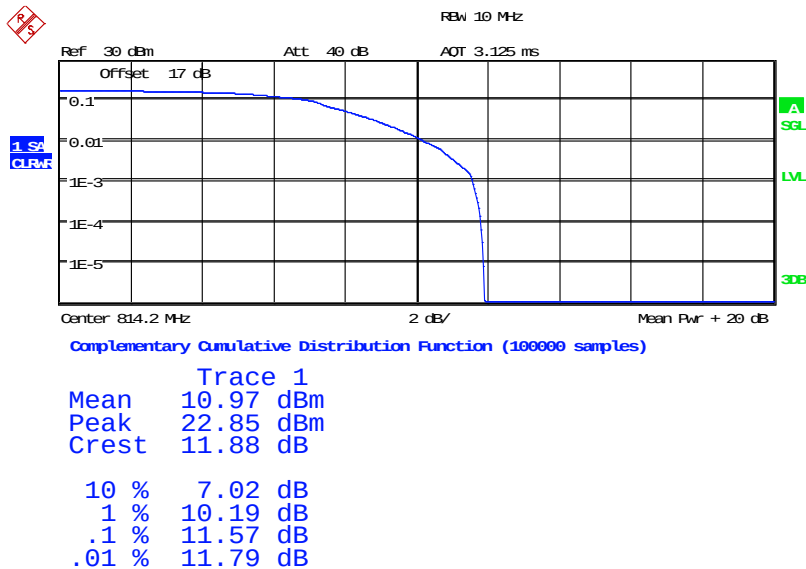
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:25:41

QPSK

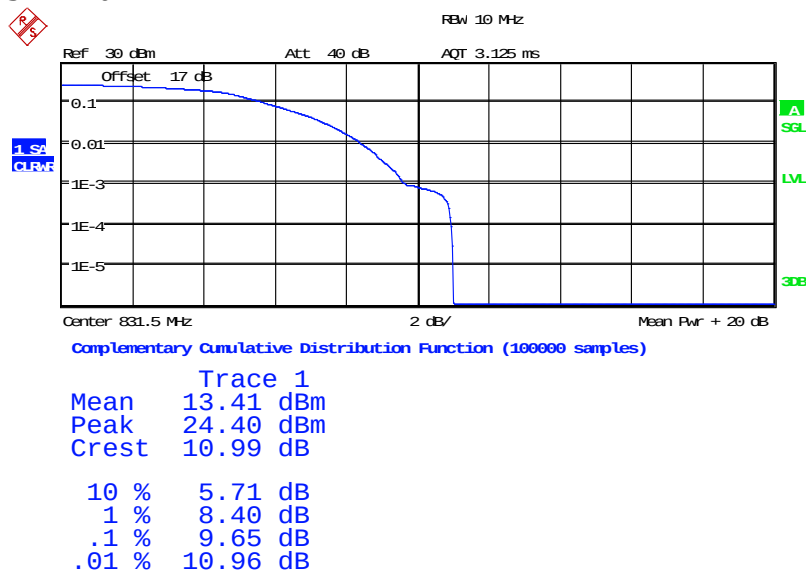


Date: 11.OCT.2024 15:18:57

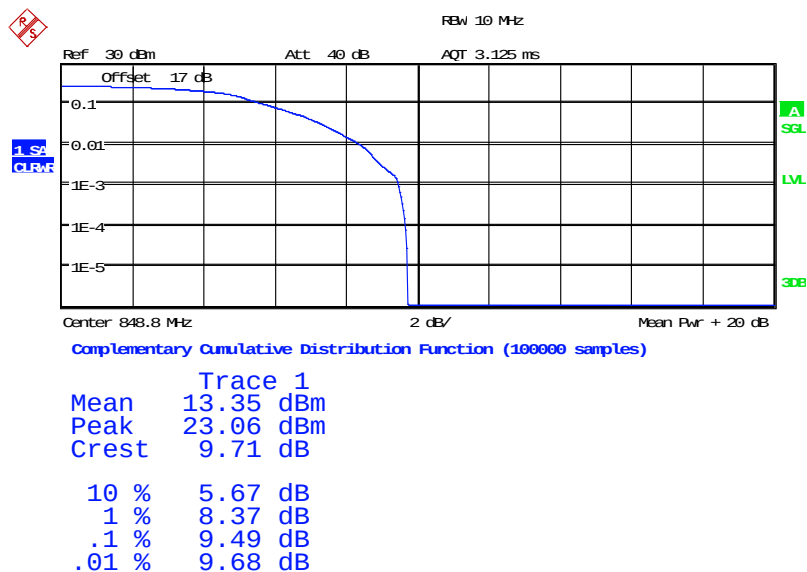


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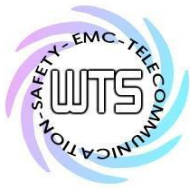
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:11:02

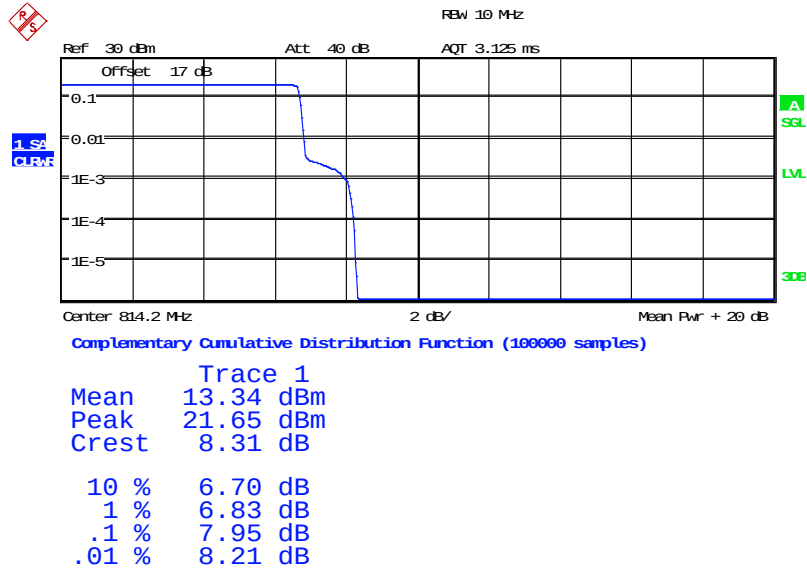


Date: 11.OCT.2024 15:23:05

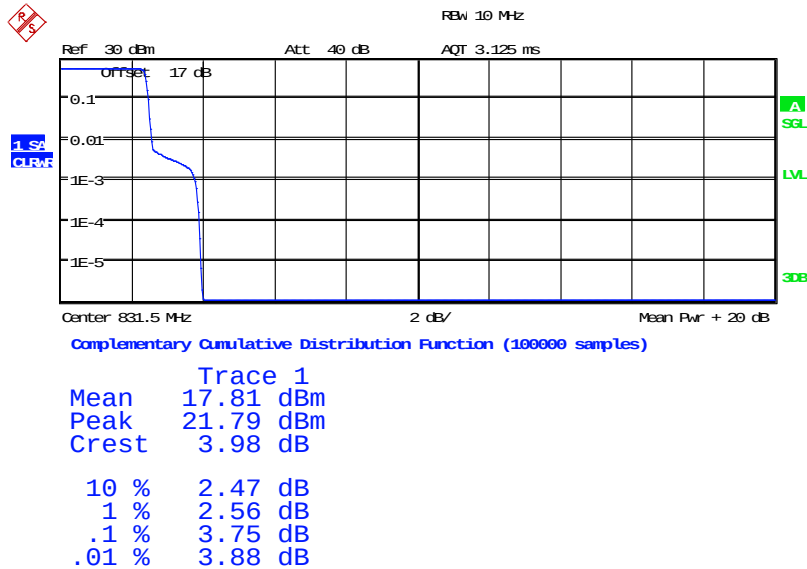


Registration number: W6M22409-23713-C-247

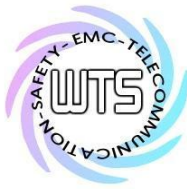
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:17:46

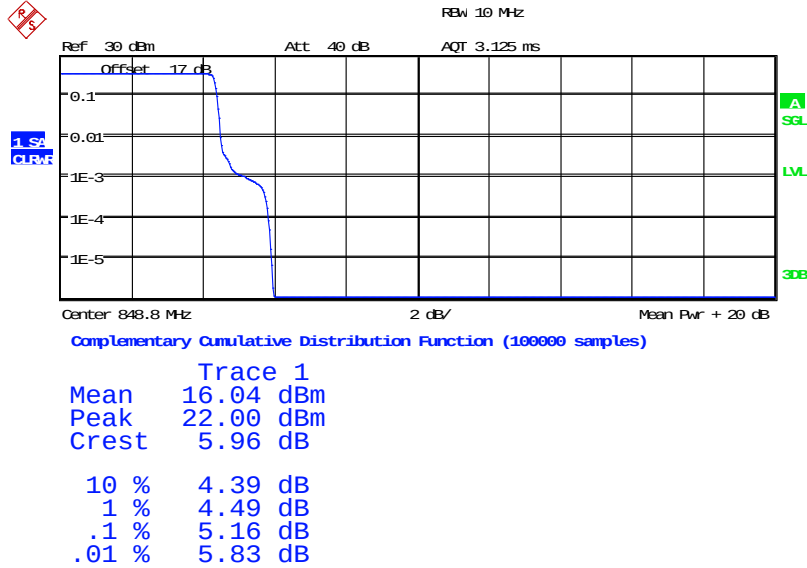


Date: 11.OCT.2024 15:13:31



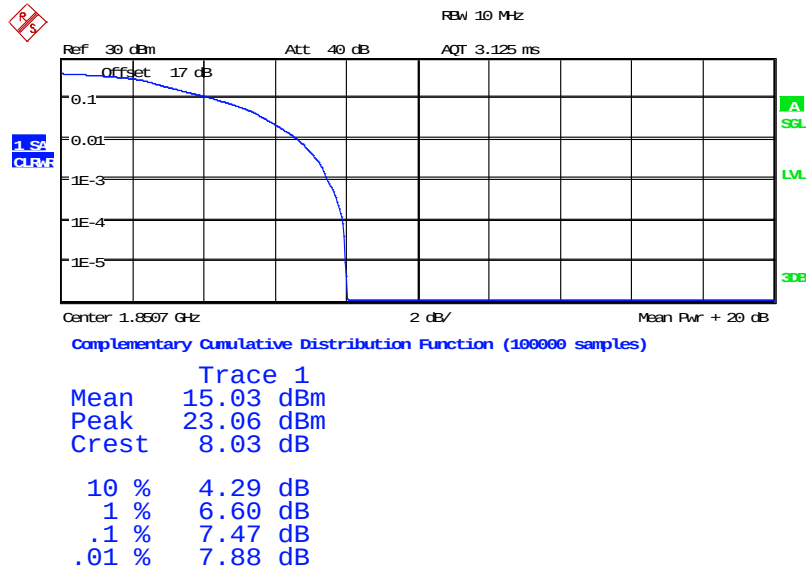
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:24:24

Cat M1
Band 2
1.4 MHz
QPSK

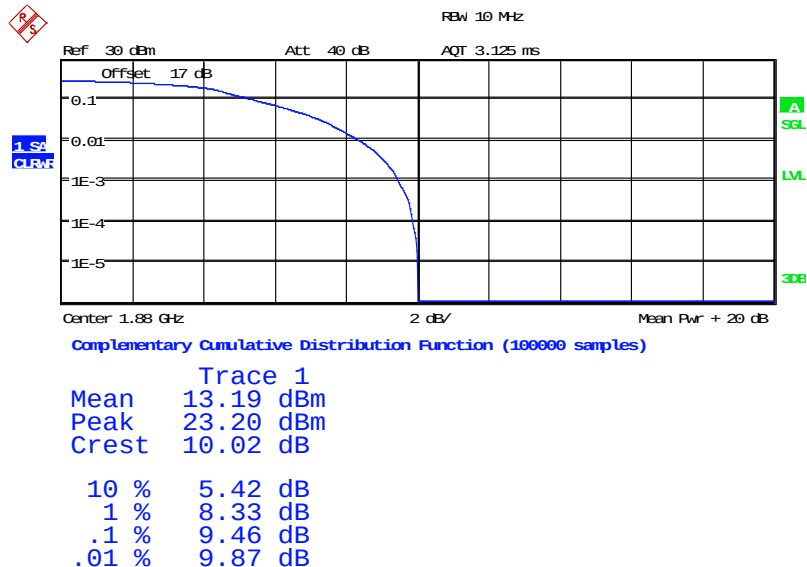


Date: 11.OCT.2024 16:54:20

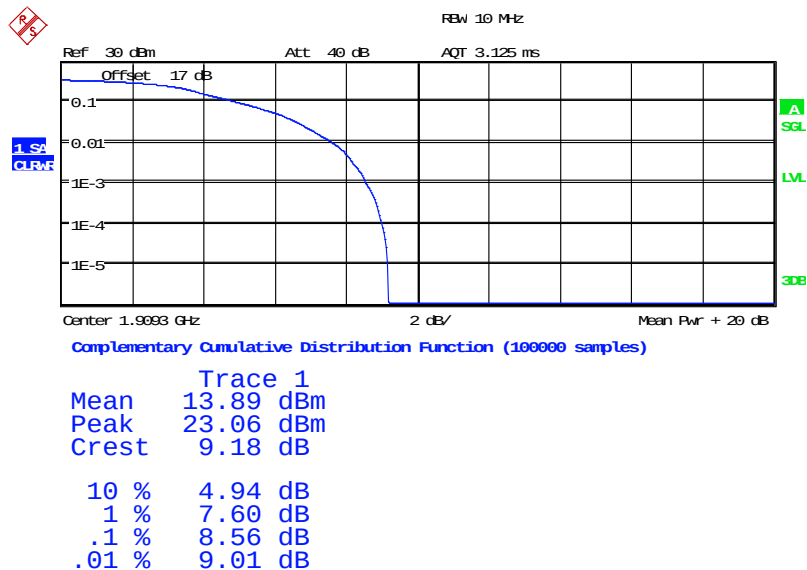


Registration number: W6M22409-23713-C-247

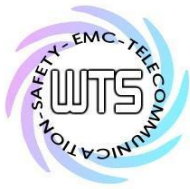
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 16:53:11



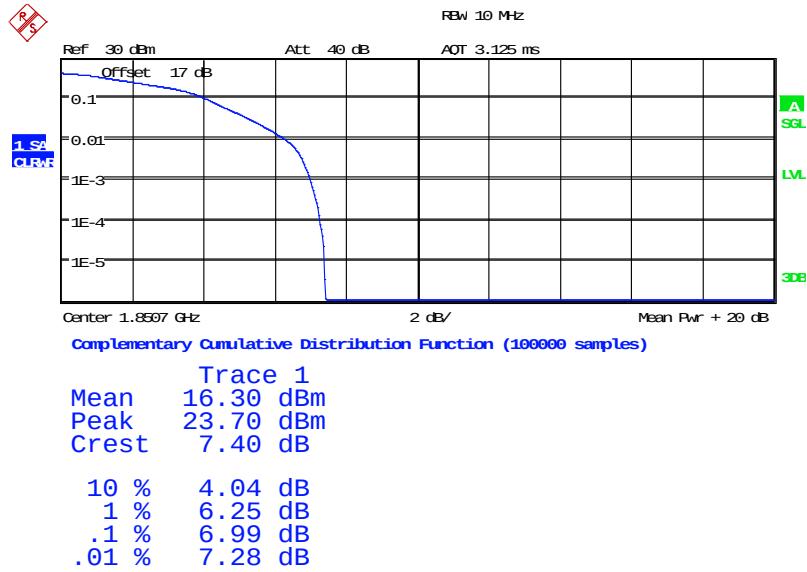
Date: 11.OCT.2024 17:13:01



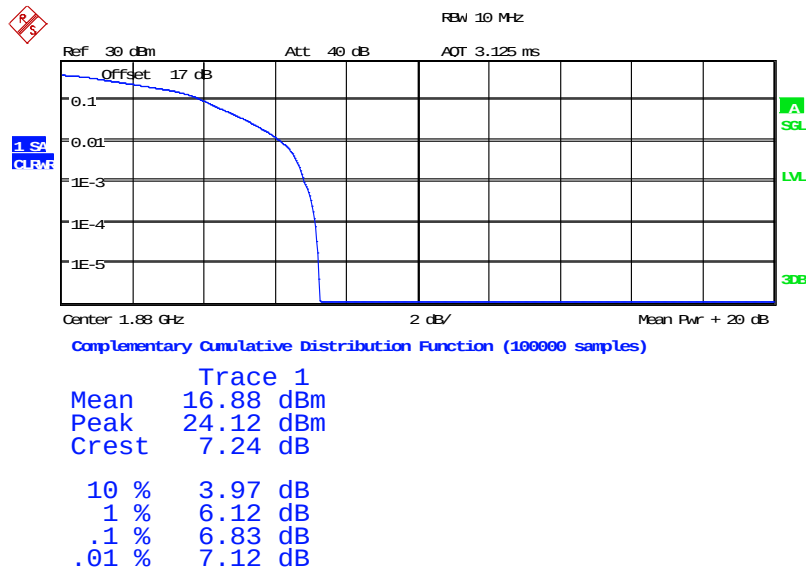
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM



Date: 11.OCT.2024 16:55:20



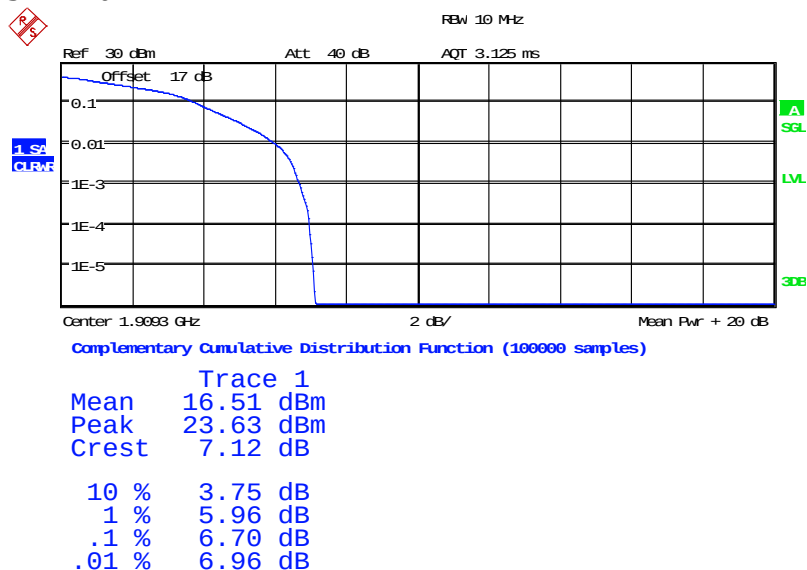
Date: 11.OCT.2024 16:52:37



Worldwide Testing Services(Taiwan) Co., Ltd.

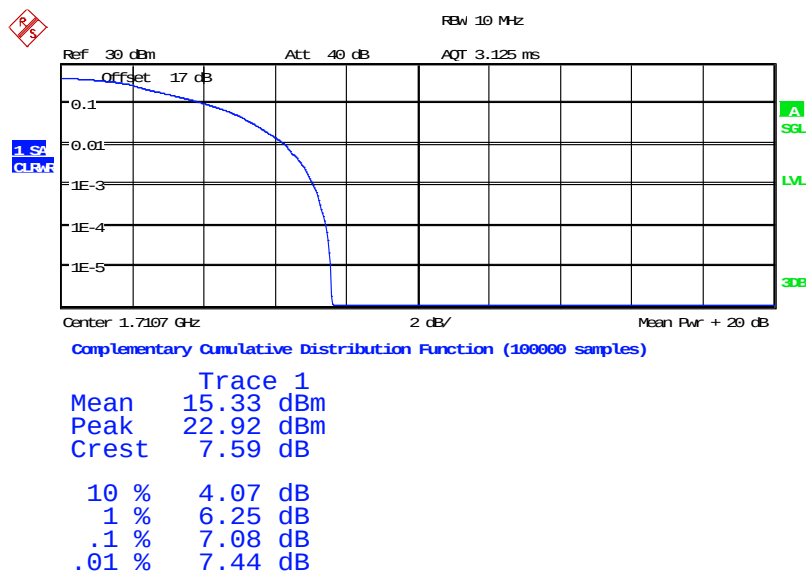
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 16:56:28

Band 4
1.4 MHz
QPSK

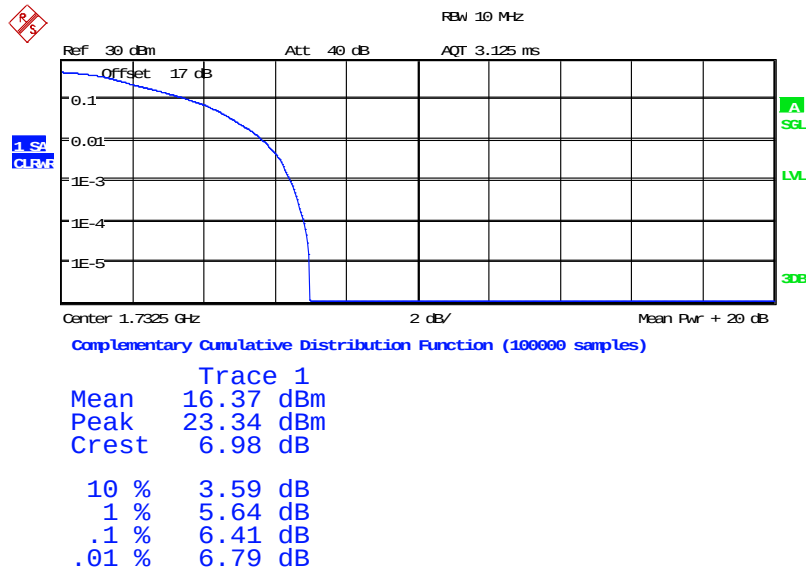


Date: 11.OCT.2024 16:48:27

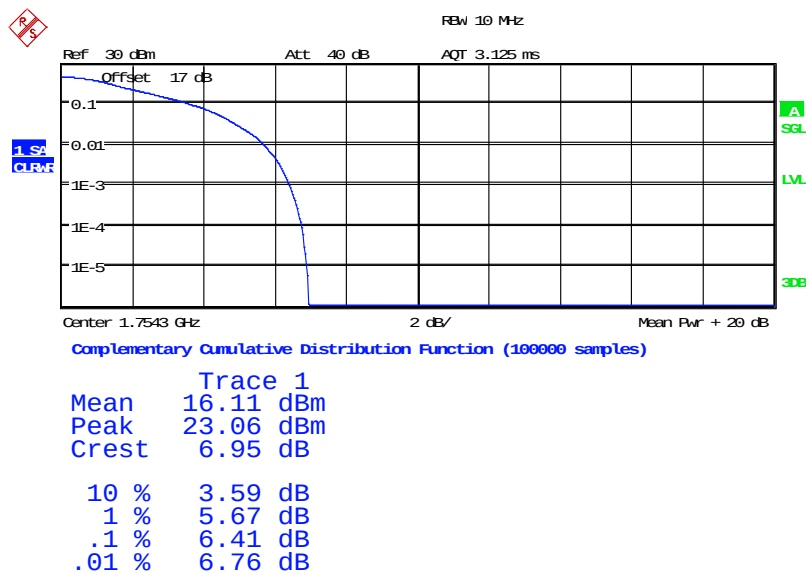


Registration number: W6M22409-23713-C-247

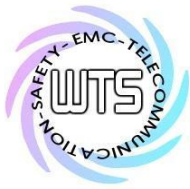
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 16:45:22



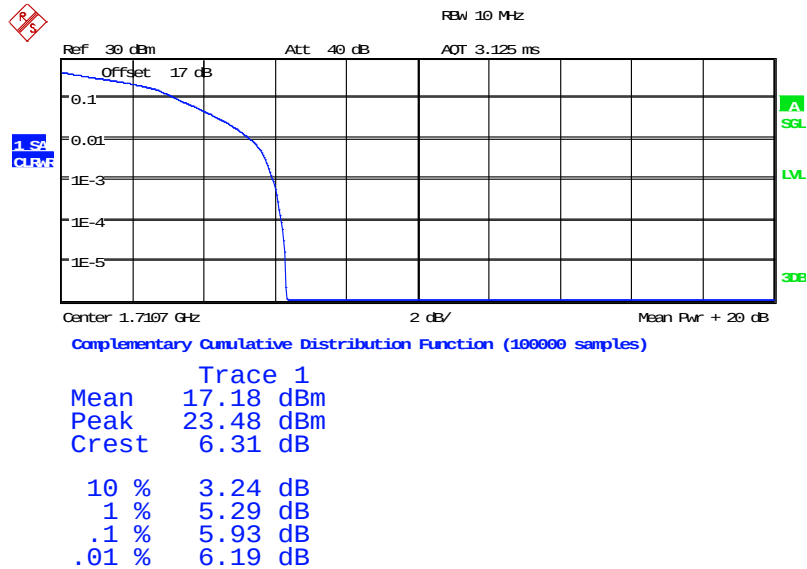
Date: 11.OCT.2024 16:49:33



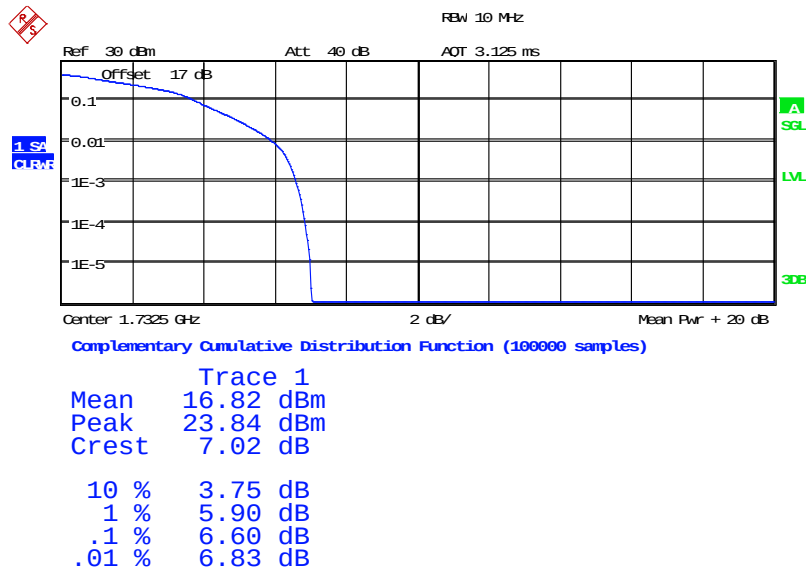
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM



Date: 11.OCT.2024 16:47:34

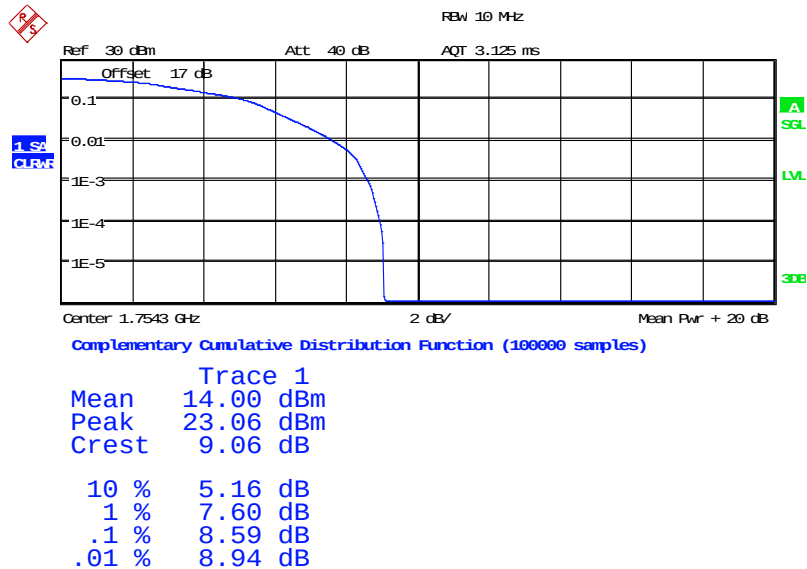


Date: 11.OCT.2024 16:46:23



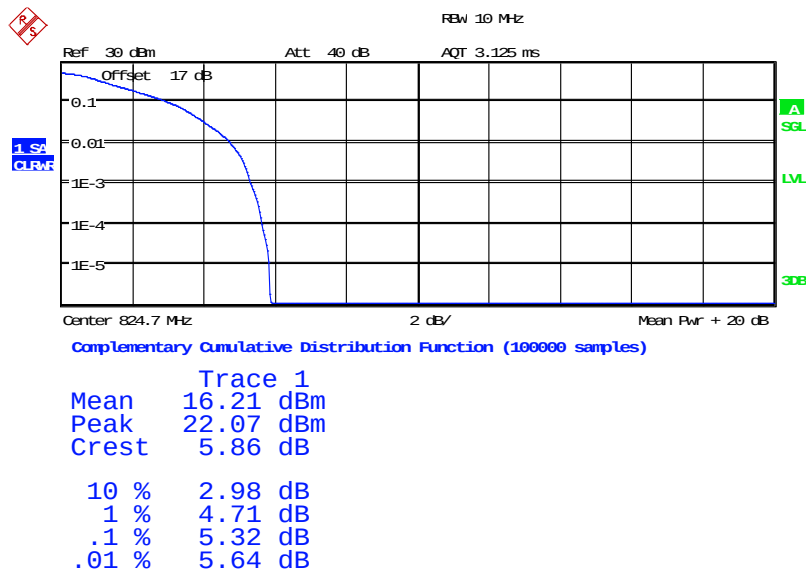
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

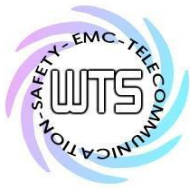


Date: 11.OCT.2024 16:50:38

Band 5
1.4 MHz
QPSK

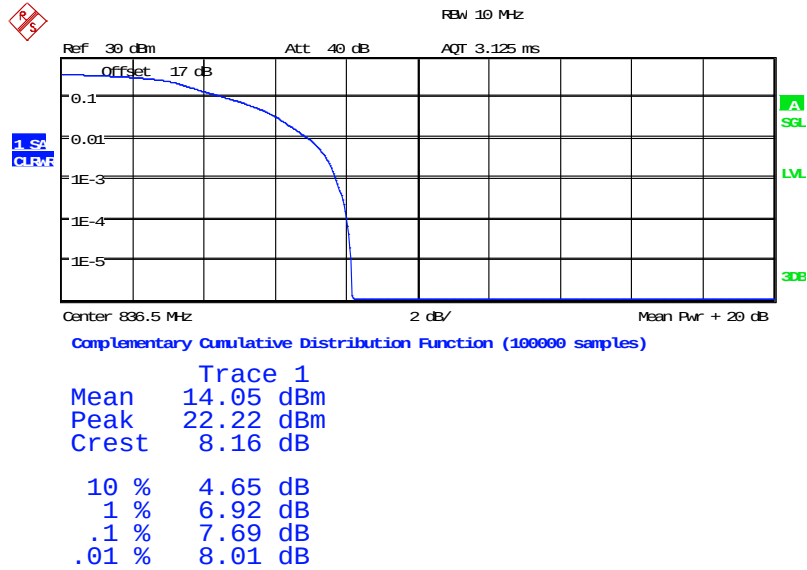


Date: 11.OCT.2024 16:36:45

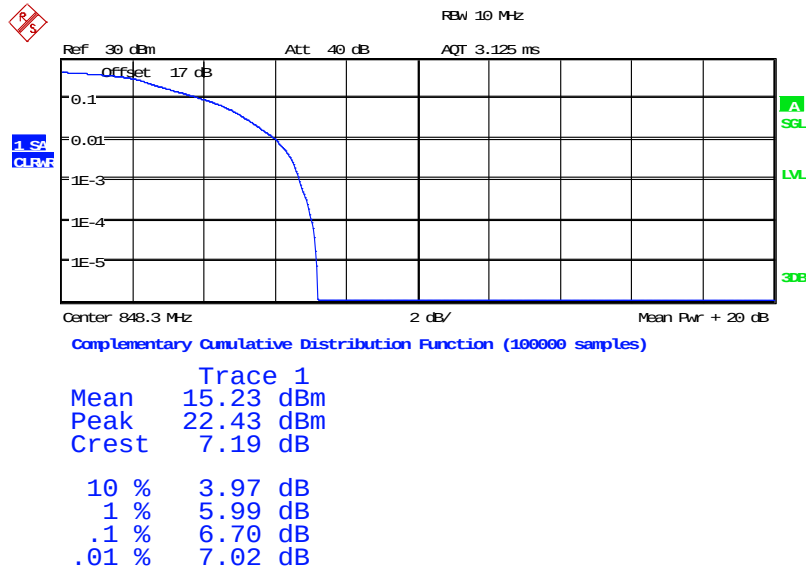


Registration number: W6M22409-23713-C-247

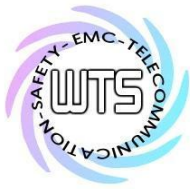
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 16:35:33



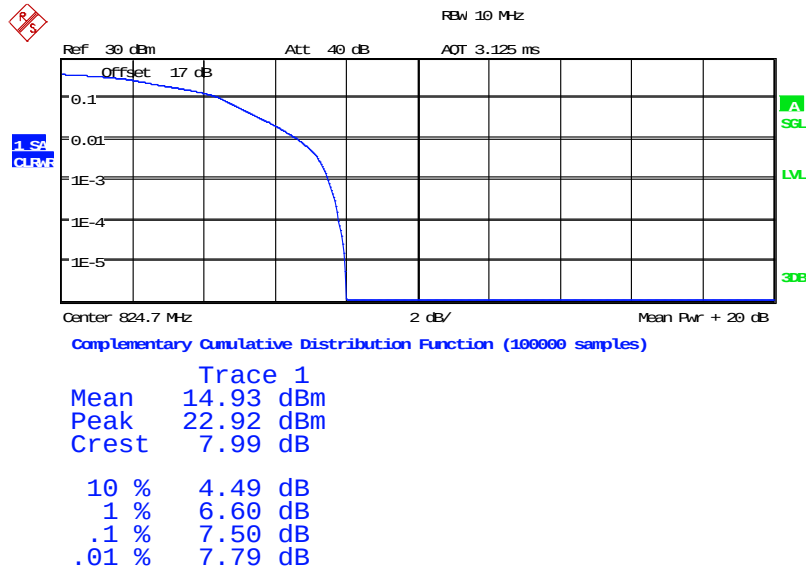
Date: 11.OCT.2024 16:39:31



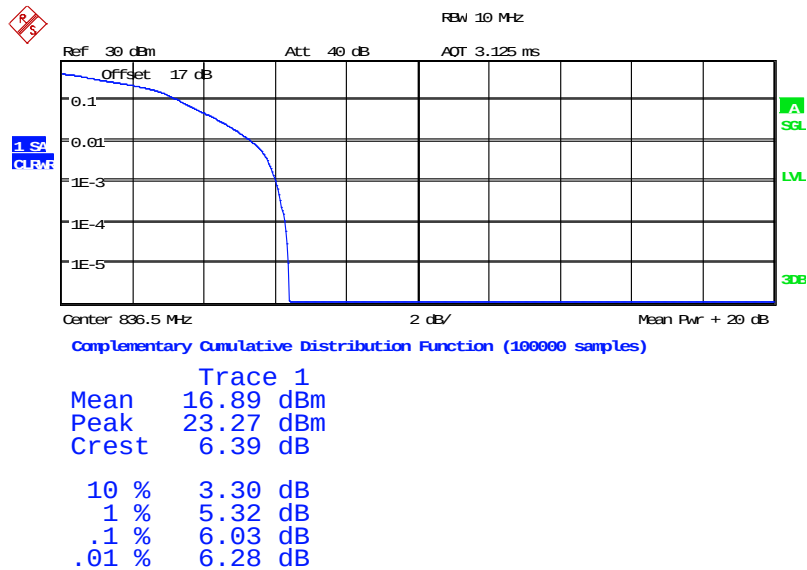
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM



Date: 11.OCT.2024 16:37:36

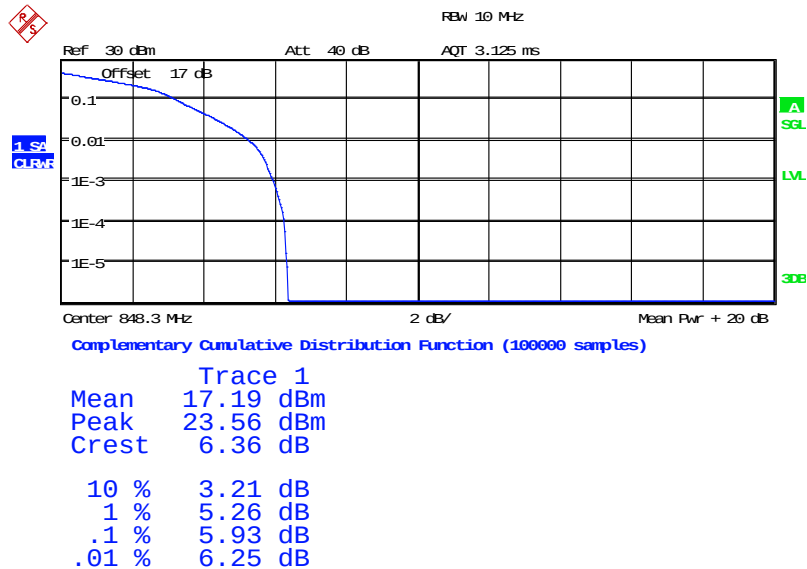


Date: 11.OCT.2024 16:34:19



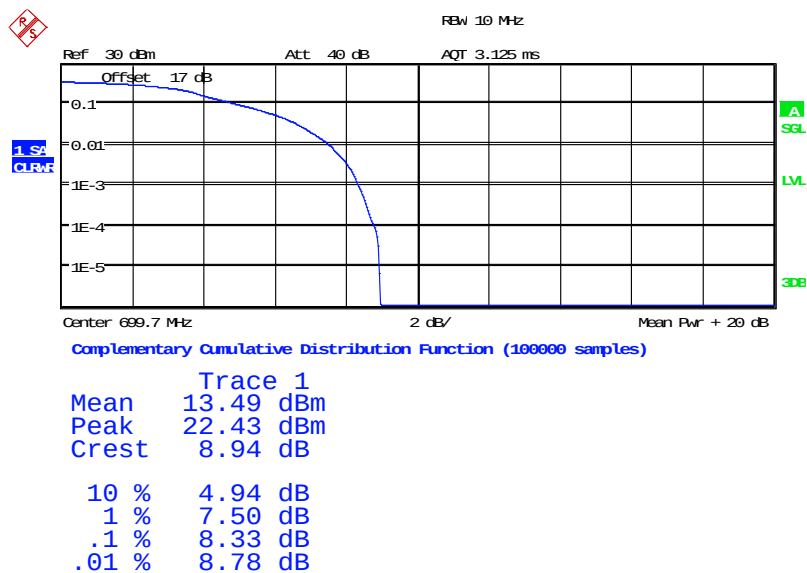
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

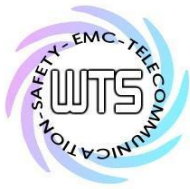


Date: 11.OCT.2024 16:38:46

Band 12
1.4 MHz
QPSK

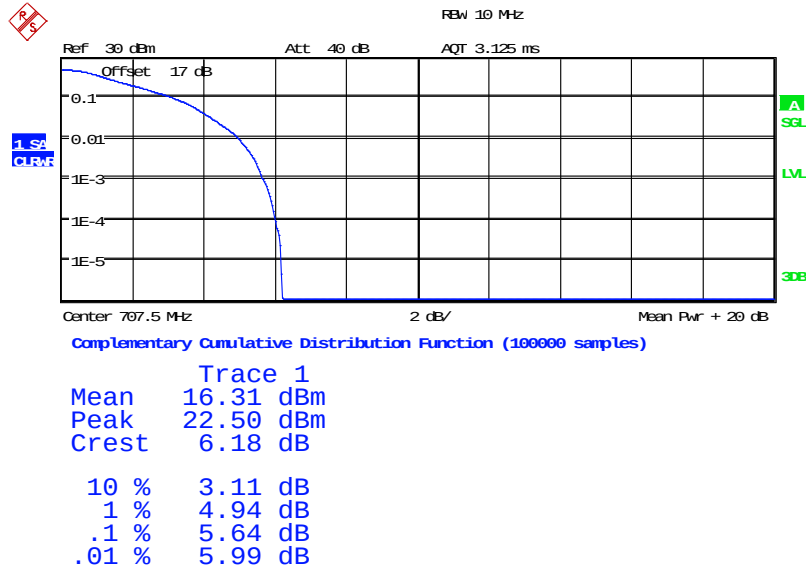


Date: 11.OCT.2024 16:30:23

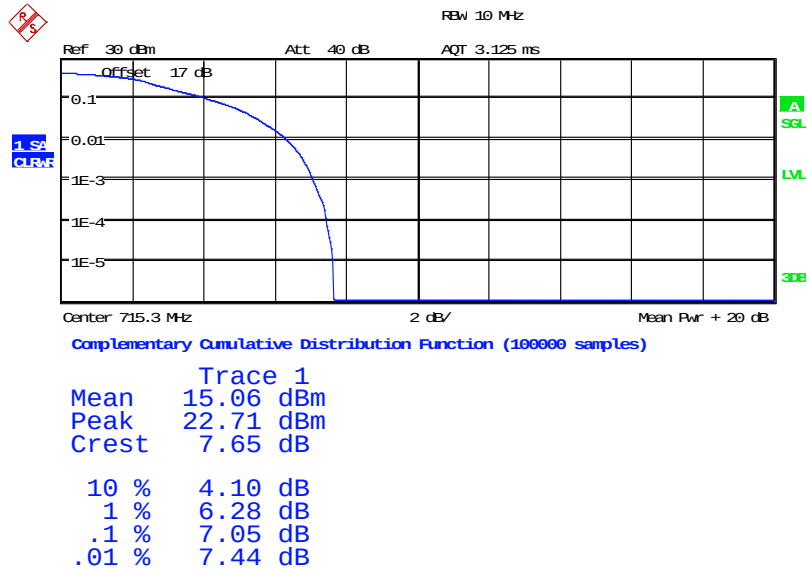


Registration number: W6M22409-23713-C-247

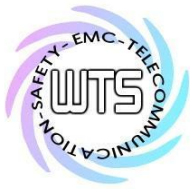
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 16:26:48



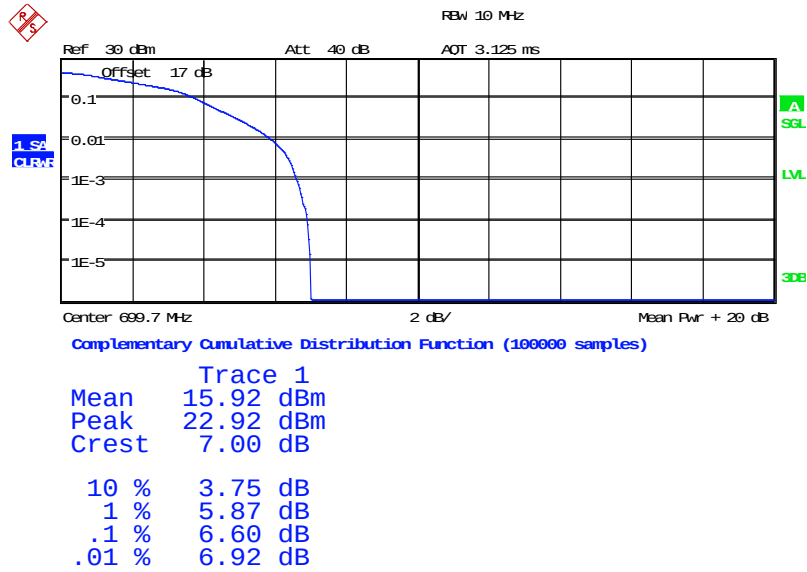
Date: 11.OCT.2024 16:31:27



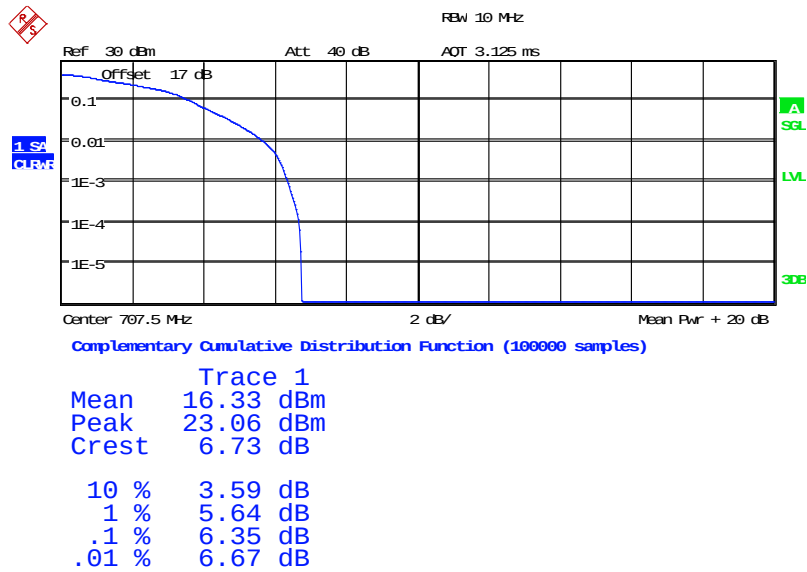
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM



Date: 11.OCT.2024 16:29:26

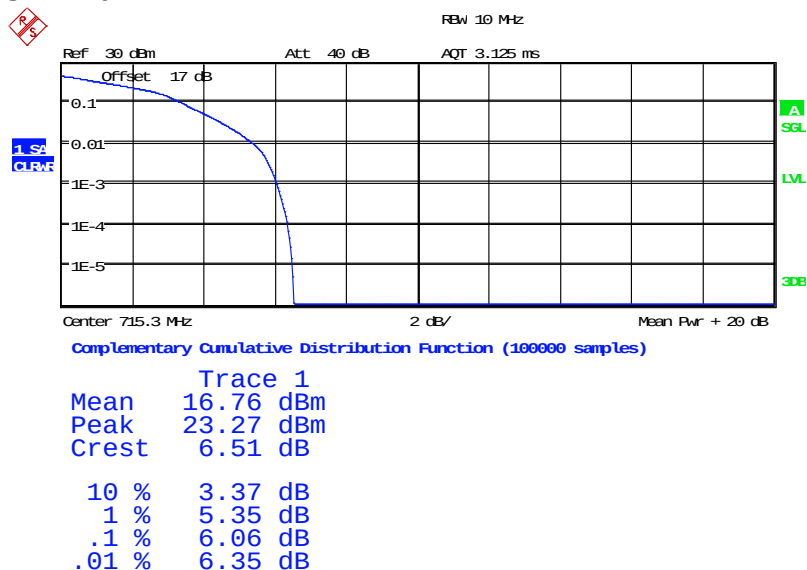


Date: 11.OCT.2024 16:28:18



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

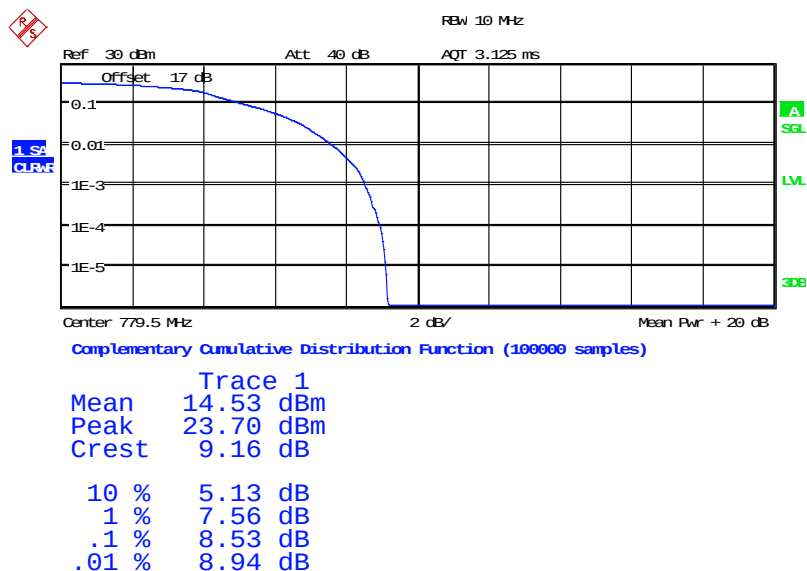


Date: 11.OCT.2024 16:32:12

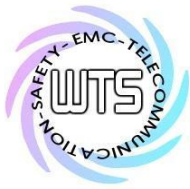
Band 13

5 MHz

QPSK

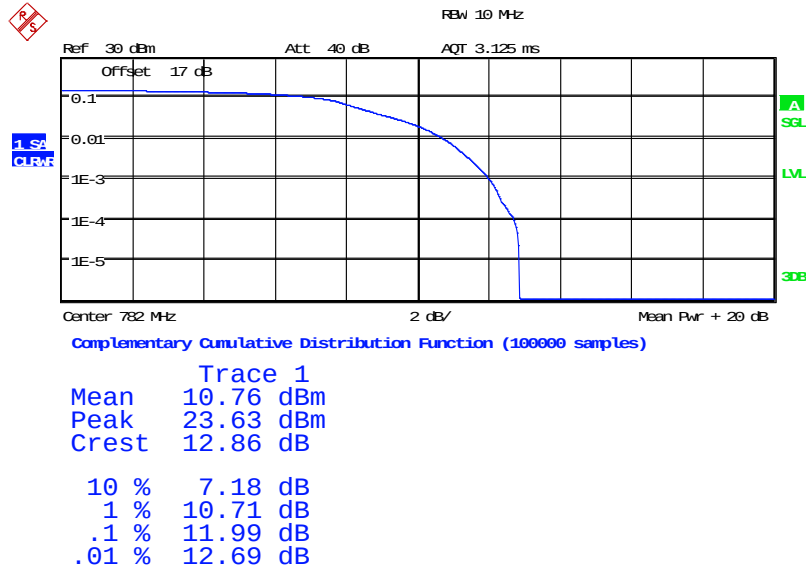


Date: 11.OCT.2024 15:50:38

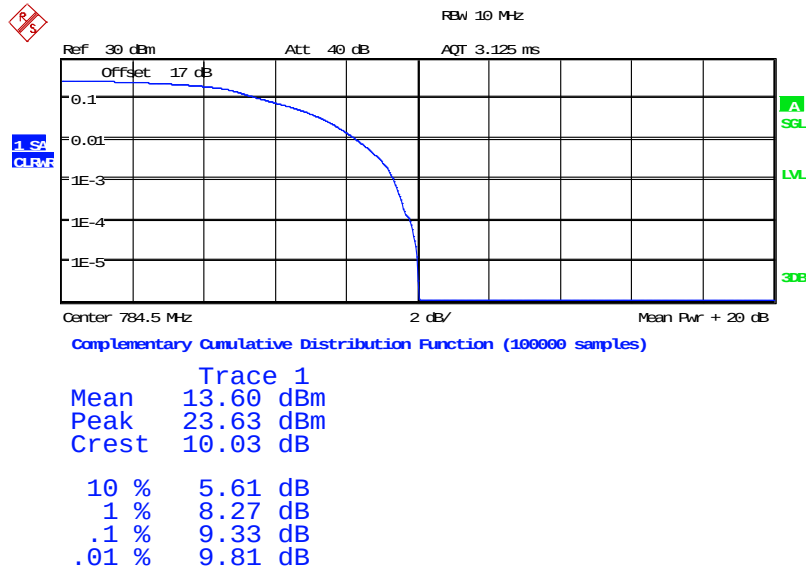


Registration number: W6M22409-23713-C-247

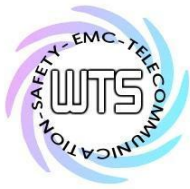
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:49:08



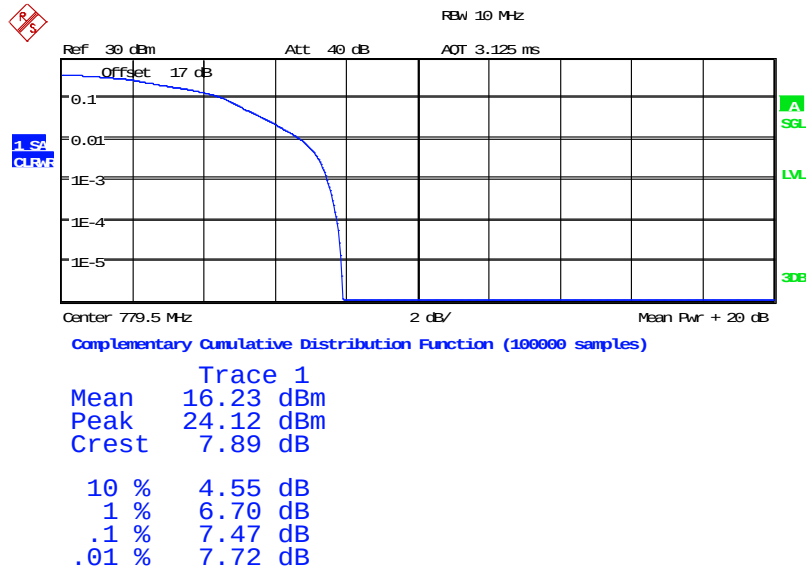
Date: 11.OCT.2024 15:53:41



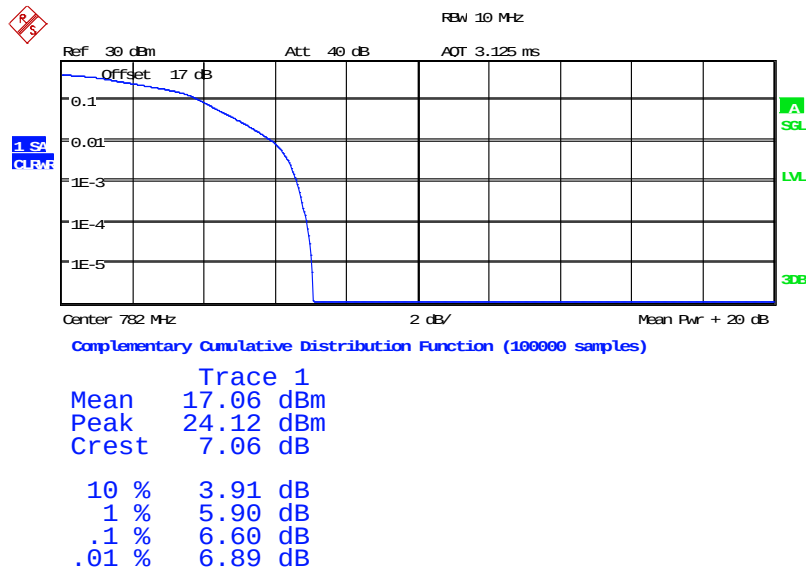
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM



Date: 11.OCT.2024 15:51:32

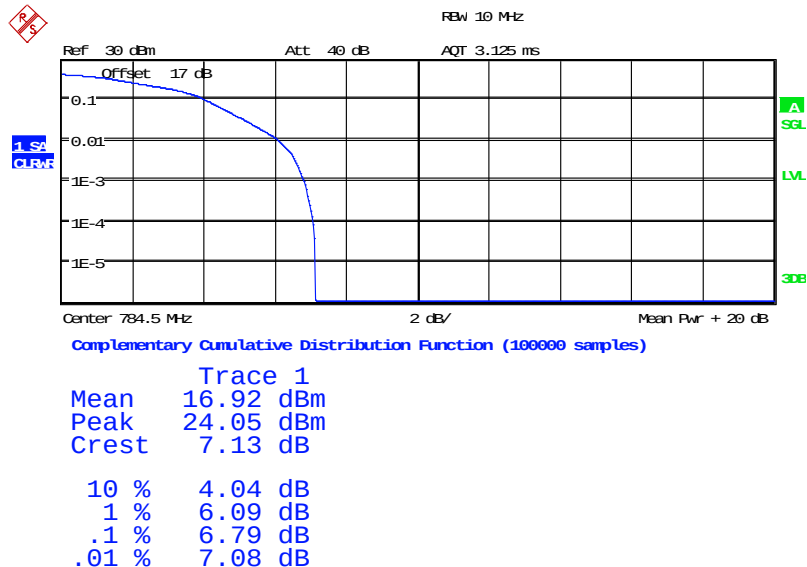


Date: 11.OCT.2024 15:48:21



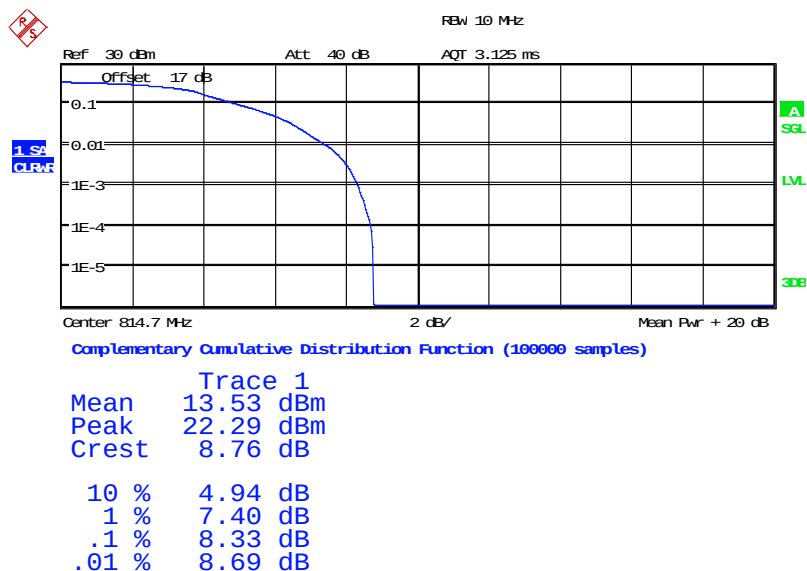
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:52:40

Band 26
1.4 MHz
QPSK

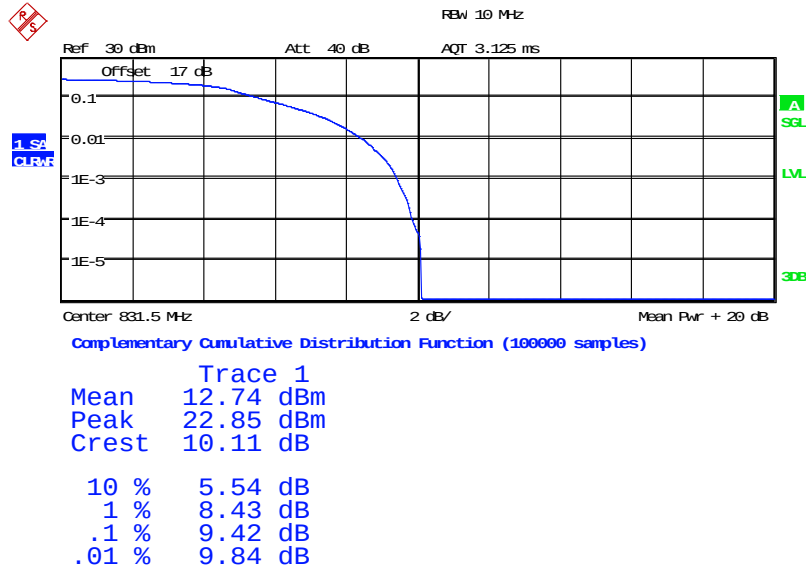


Date: 11.OCT.2024 15:40:52

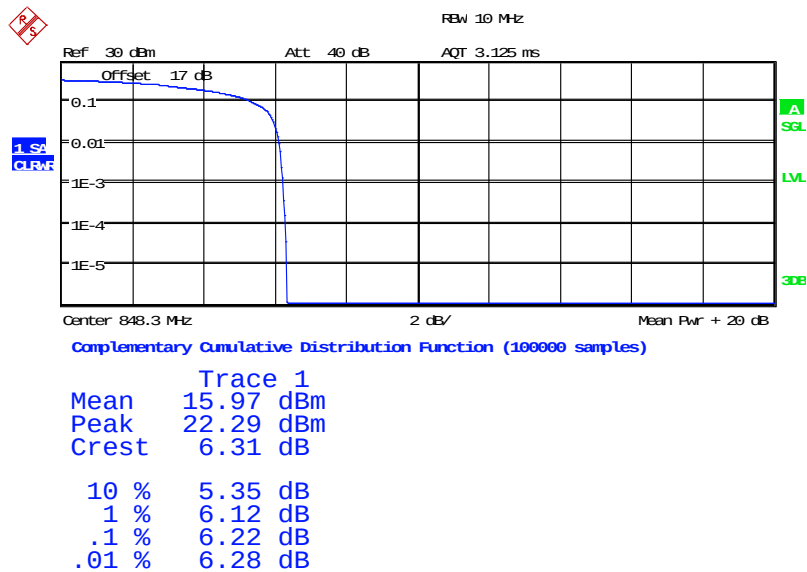


Registration number: W6M22409-23713-C-247

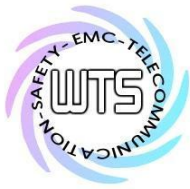
FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:35:57



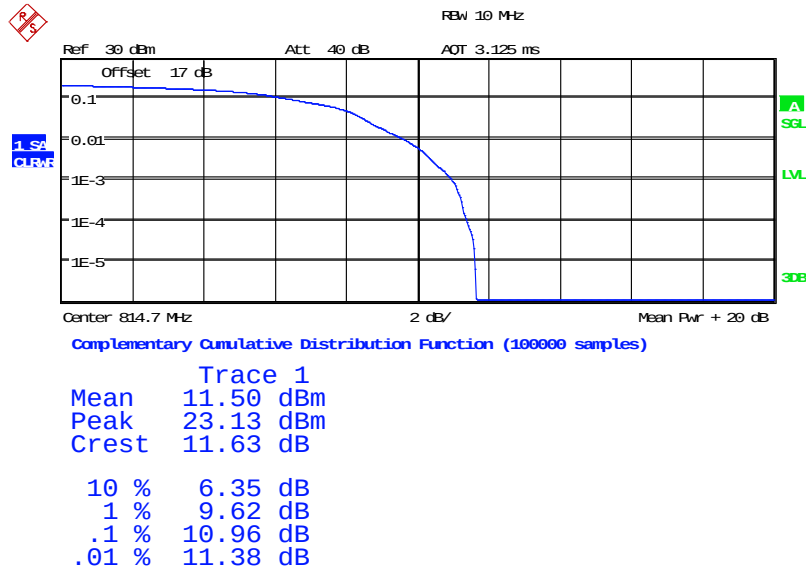
Date: 11.OCT.2024 15:42:18



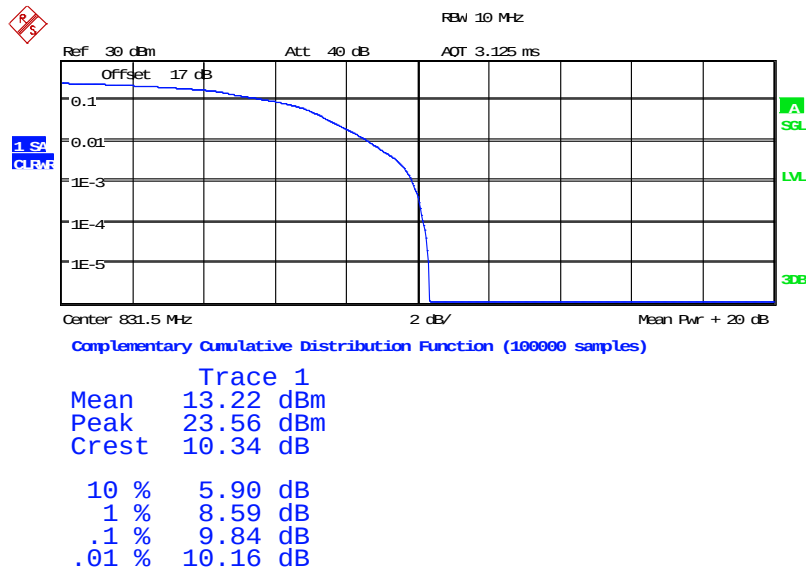
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

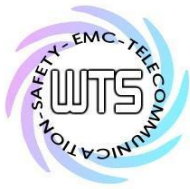
16QAM



Date: 11.OCT.2024 15:39:54

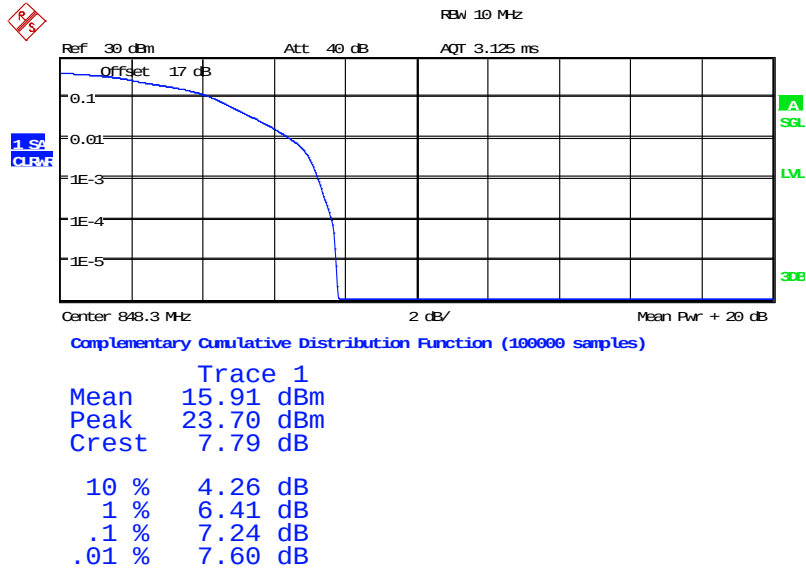


Date: 11.OCT.2024 15:38:58



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 11.OCT.2024 15:42:58

Limit according to FCC §24.232 and §27.50, The peak-to-average ratio(PAR) of the transmission may not exceed 13dB.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

6 Occupied Bandwidth

The occupied bandwidth (OBW) is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to a specified percentage 0.5% of the total mean transmitted power.

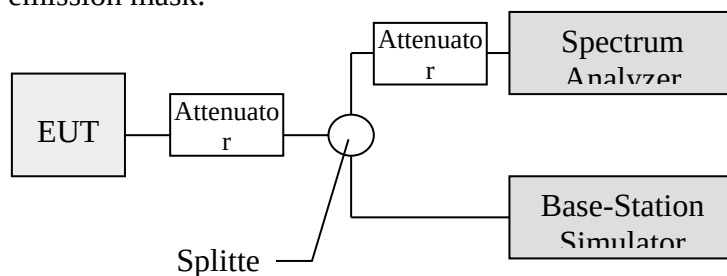
The 26 dB occupied bandwidth is the width of a frequency band such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal 26 dB.

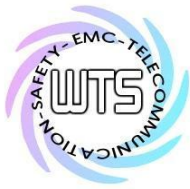
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1 Test procedure

The RF output of the transceiver was connected as the following figure.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.





Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

6.2 Test Results

Test date: October 07, 2024- October 15, 2024

Temperature: 24.4 °C

Humidity: 53.0 %

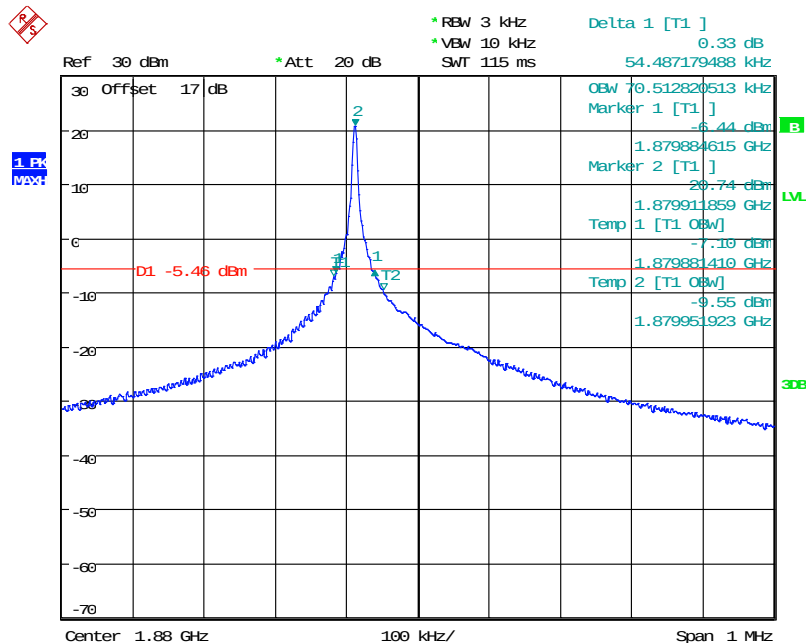
Tester: Rick

NB-IOT

Band 2

5 MHz

BPSK

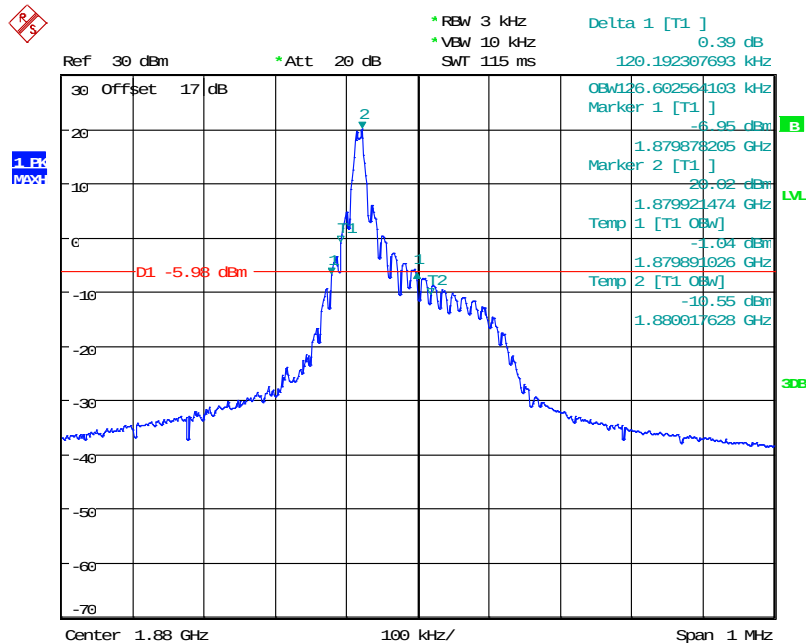


Date: 10.OCT.2024 17:13:23



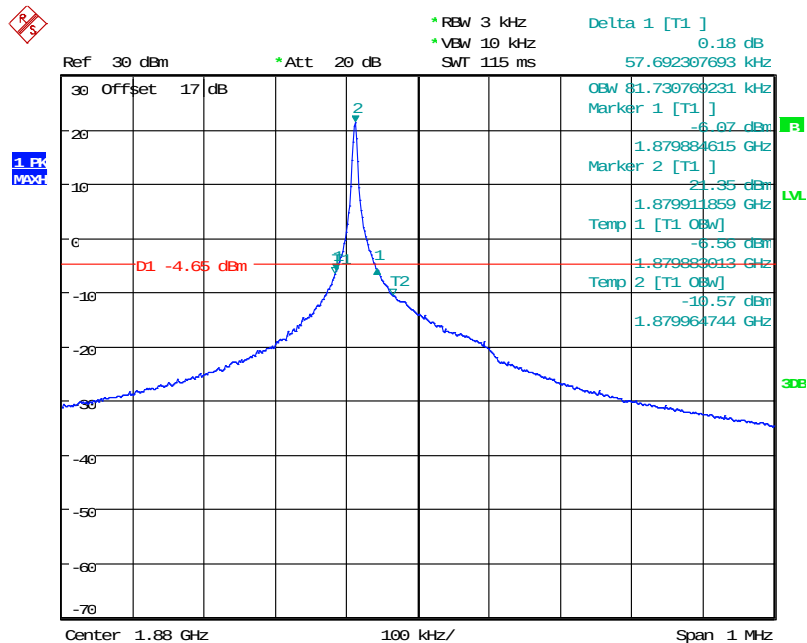
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

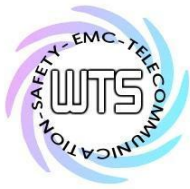


Date: 10.OCT.2024 17:21:05

QPSK

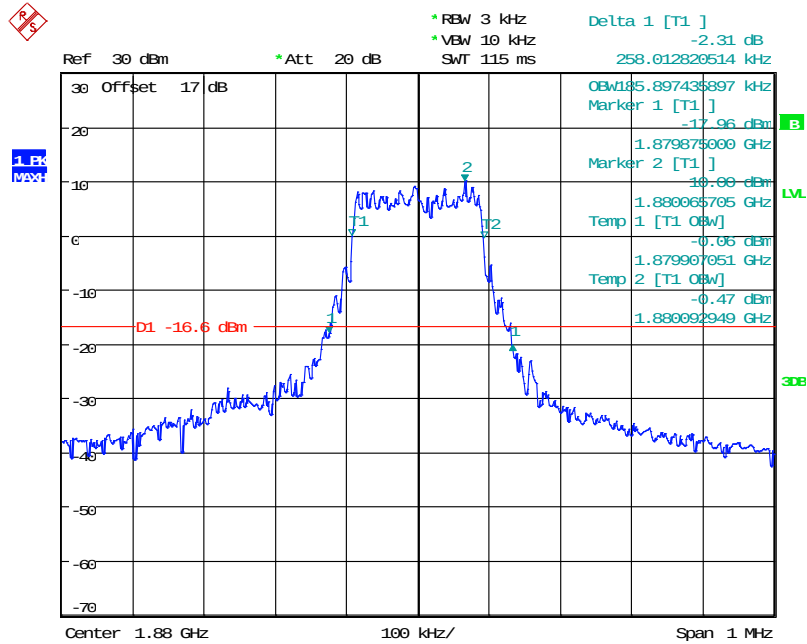


Date: 10.OCT.2024 17:14:53



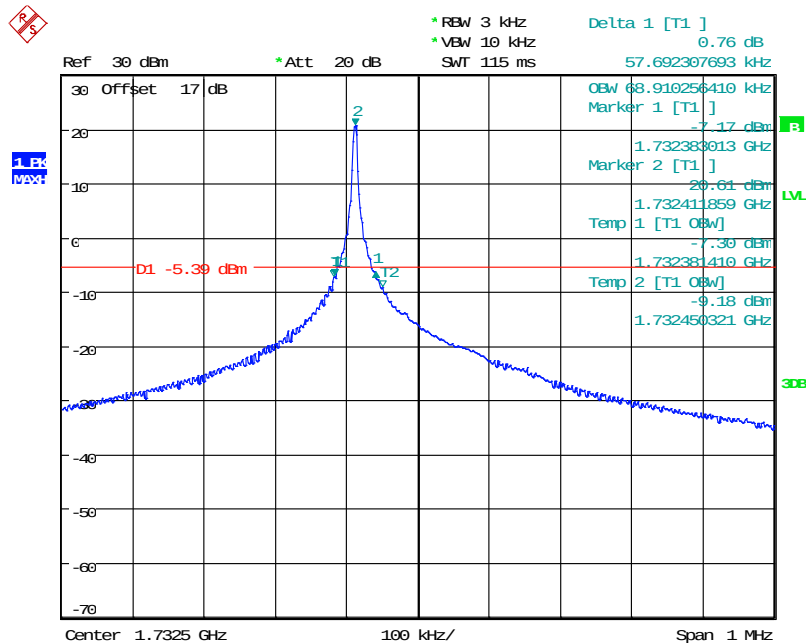
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

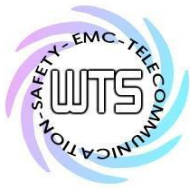


Date: 10.OCT.2024 17:16:39

Band 4
5 MHz
BPSK

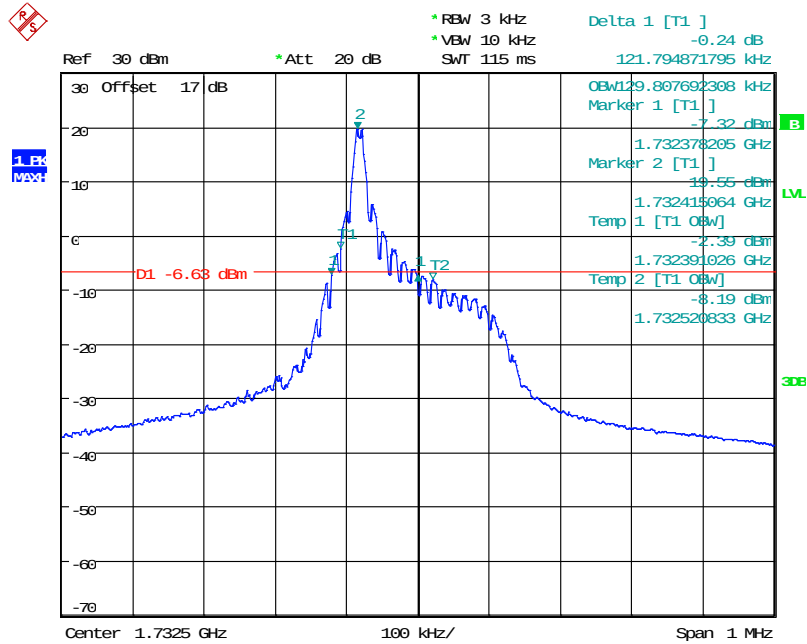


Date: 10.OCT.2024 17:53:42



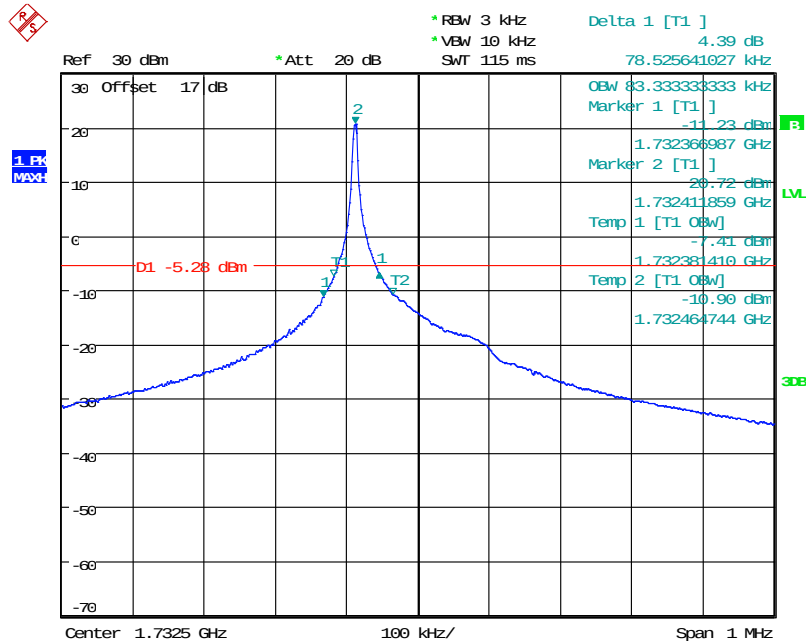
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

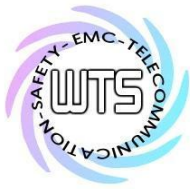


Date: 10.OCT.2024 17:49:14

QPSK

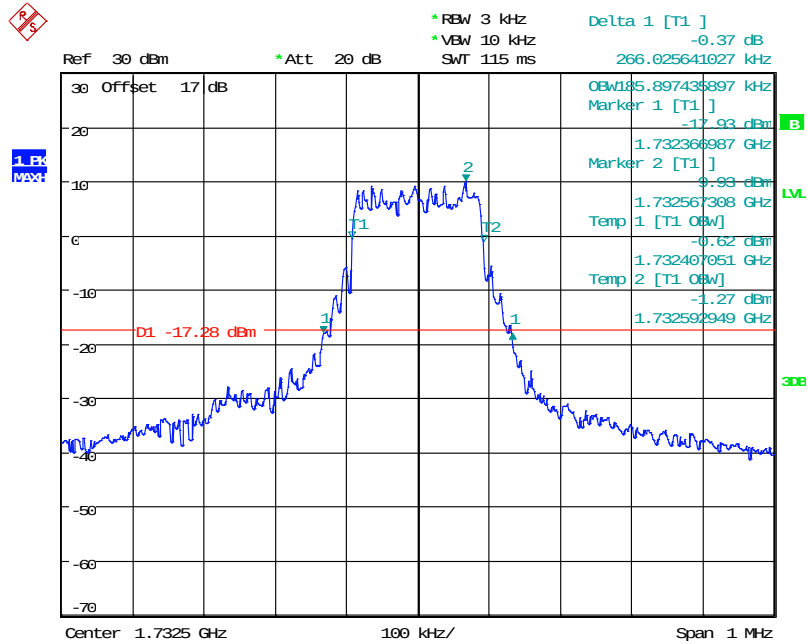


Date: 10.OCT.2024 17:52:27



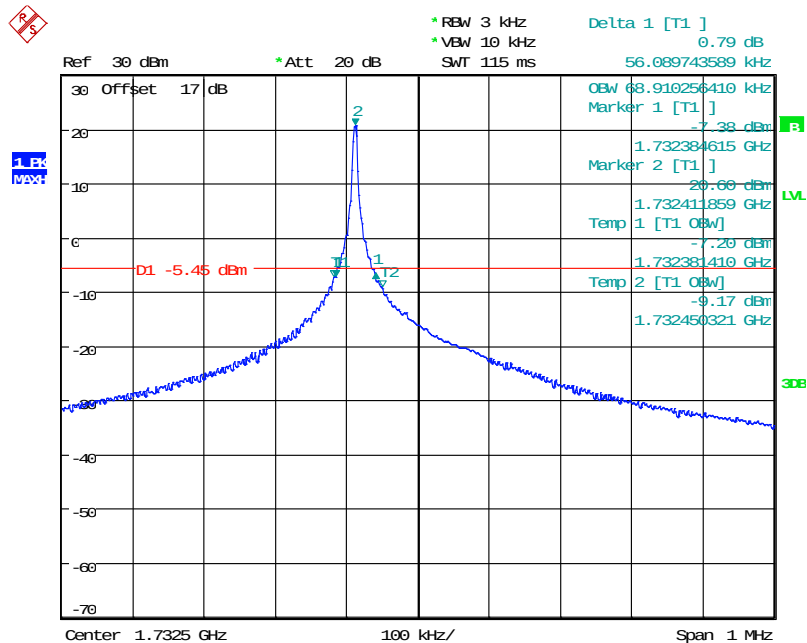
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 17:51:00

Band 5
5 MHz
BPSK

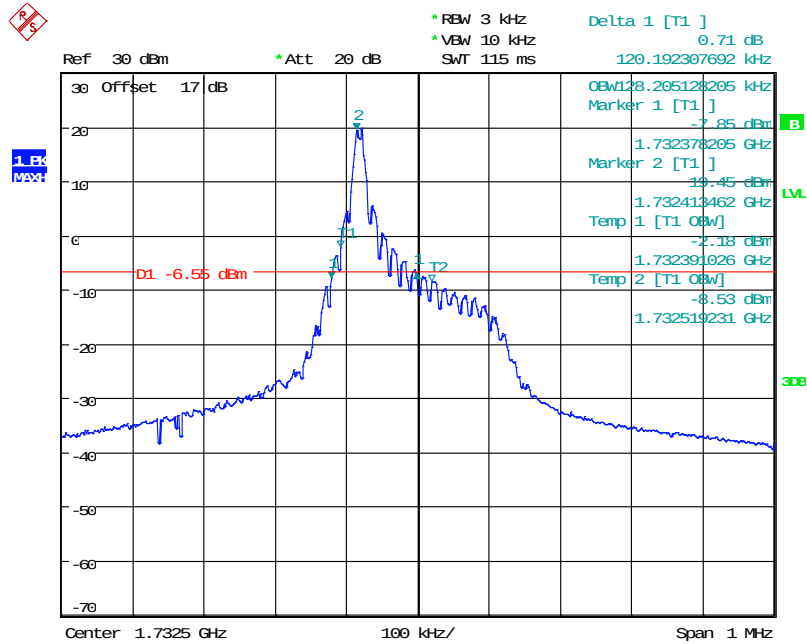


Date: 10.OCT.2024 17:09:43



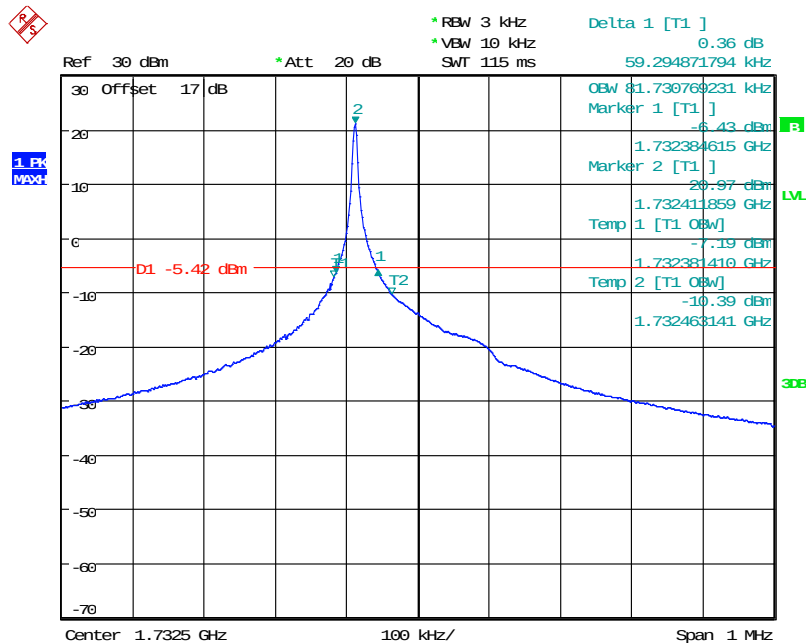
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

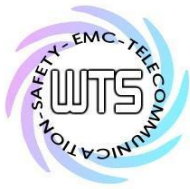


Date: 10.OCT.2024 17:05:11

QPSK

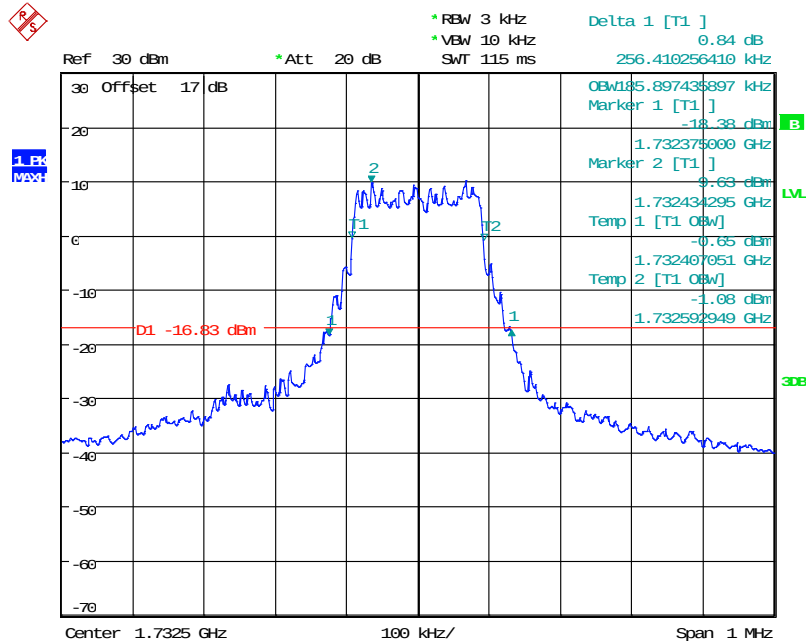


Date: 10.OCT.2024 17:08:30



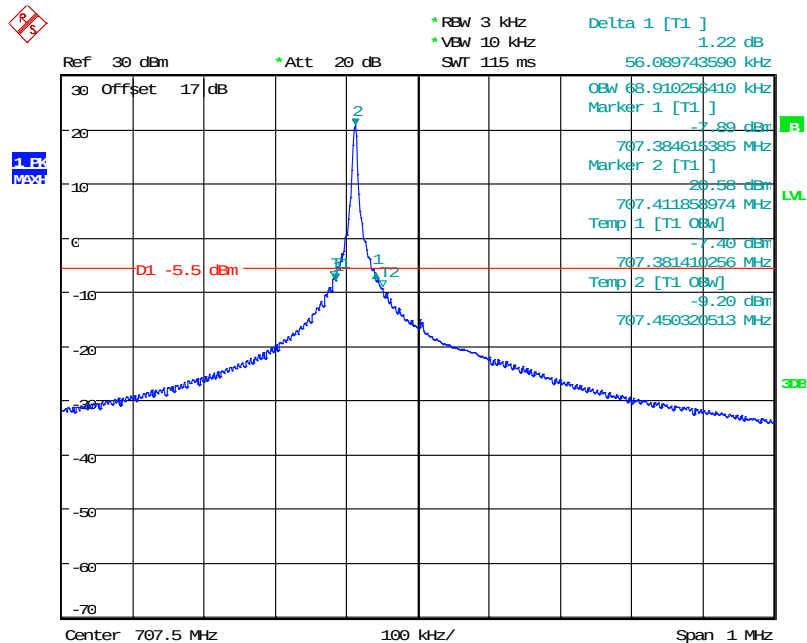
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

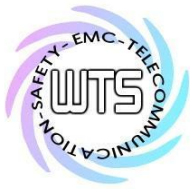


Date: 10.OCT.2024 17:03:09

Band 12
5 MHz
BPSK

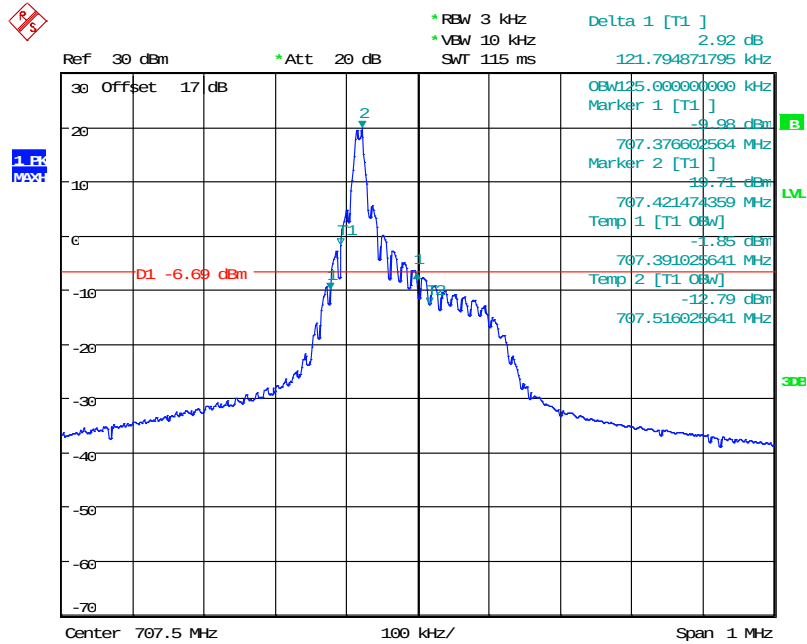


Date: 10.OCT.2024 16:45:40



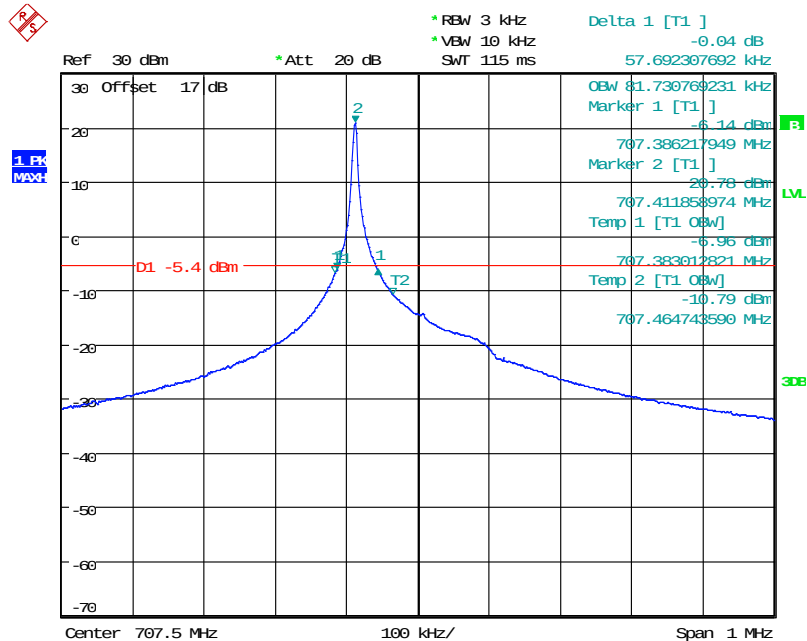
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

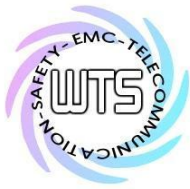


Date: 10.OCT.2024 16:49:13

QPSK

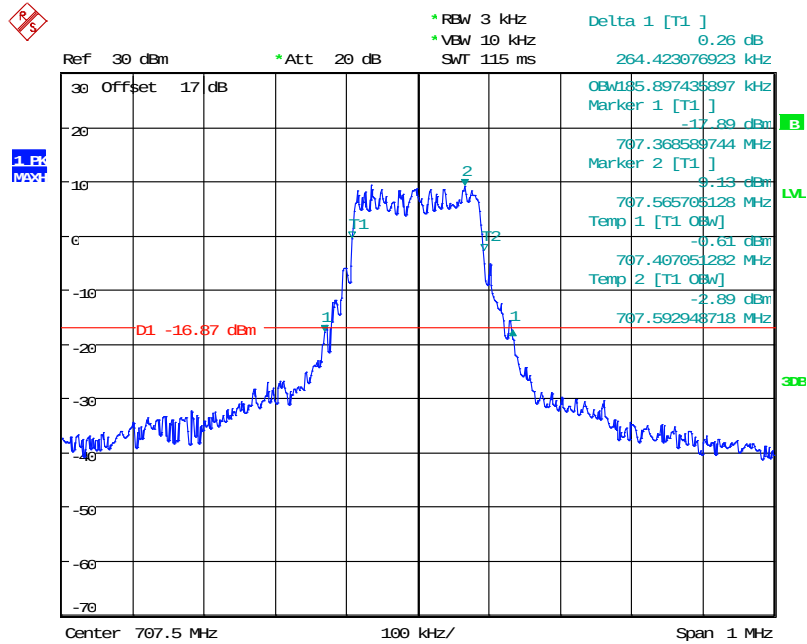


Date: 10.OCT.2024 16:44:17



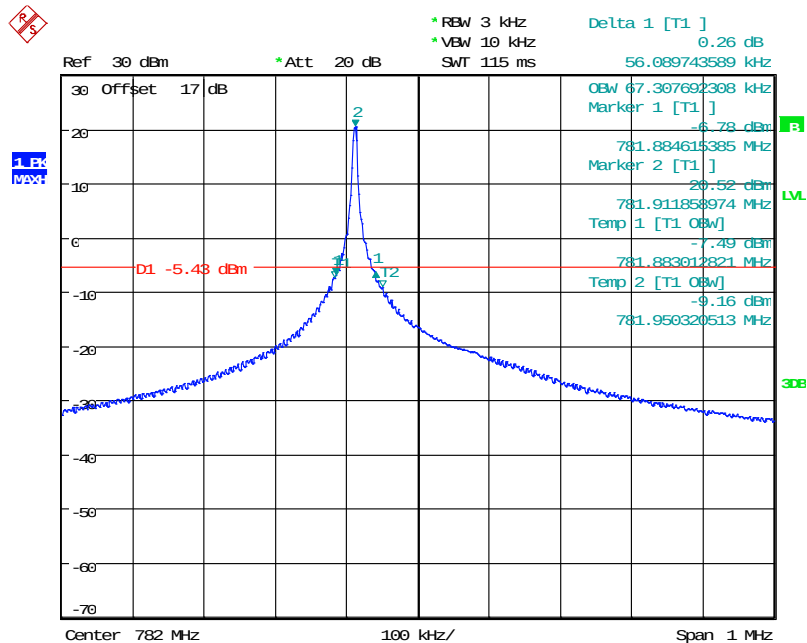
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

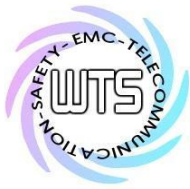


Date: 10.OCT.2024 16:50:39

Band 13
5 MHz
BPSK

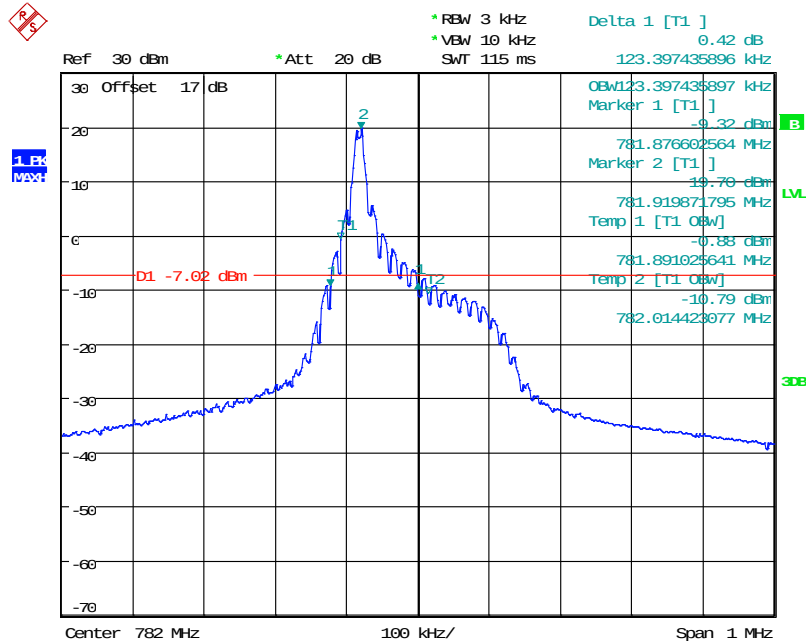


Date: 10.OCT.2024 16:36:44



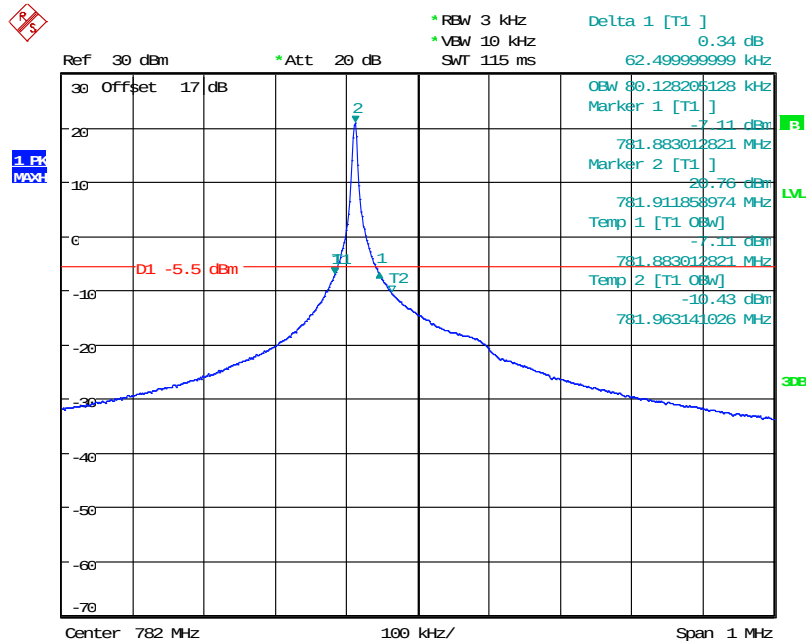
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

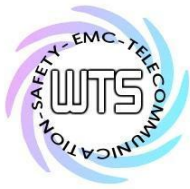


Date: 10.OCT.2024 16:38:08

QPSK

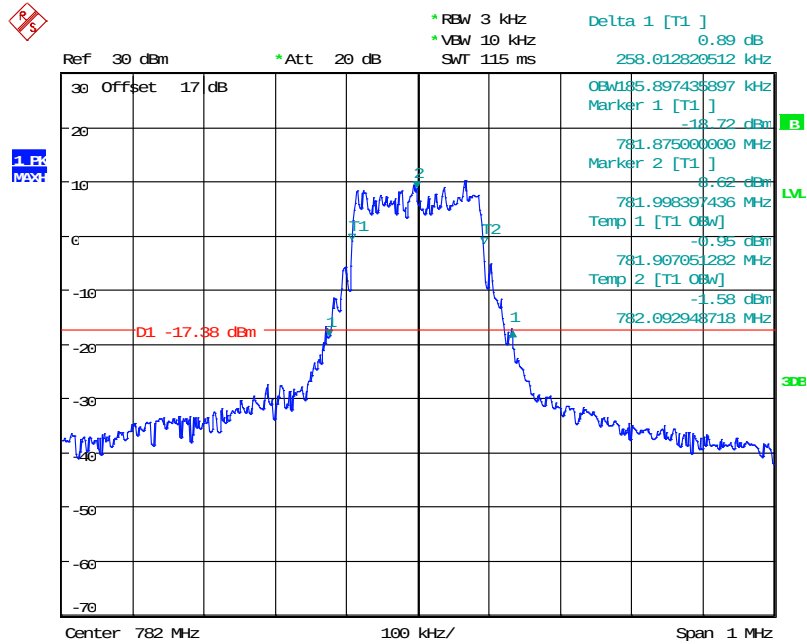


Date: 10.OCT.2024 16:41:40



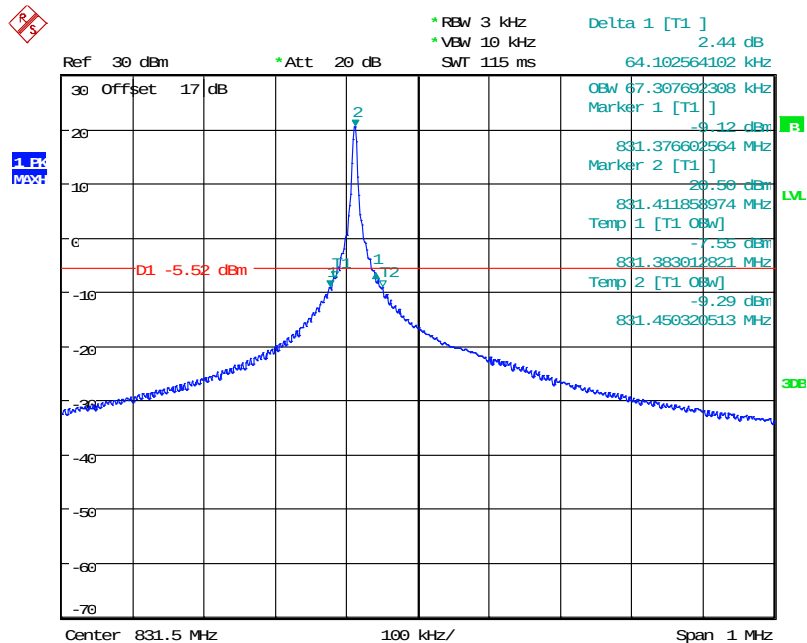
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

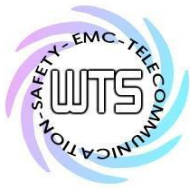


Date: 10.OCT.2024 16:40:05

Band 26
5 MHz
BPSK

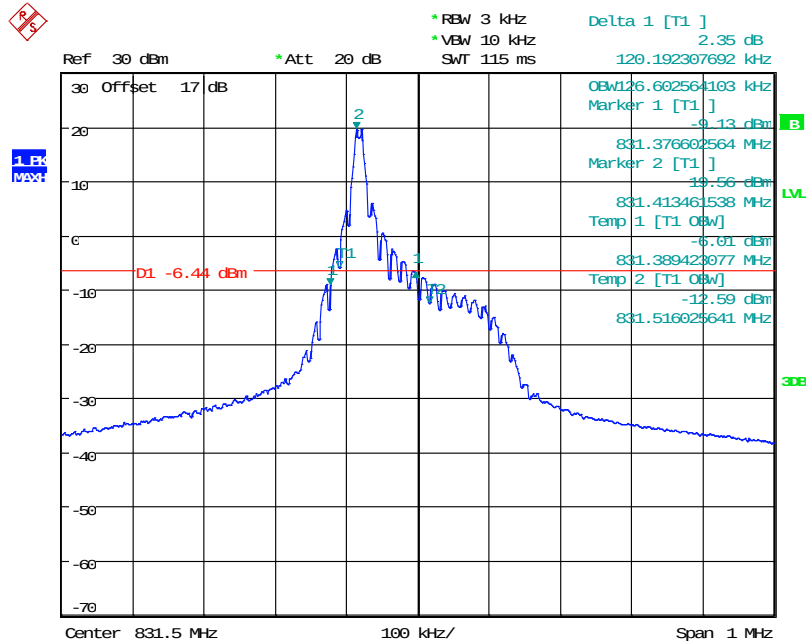


Date: 10.OCT.2024 16:23:46



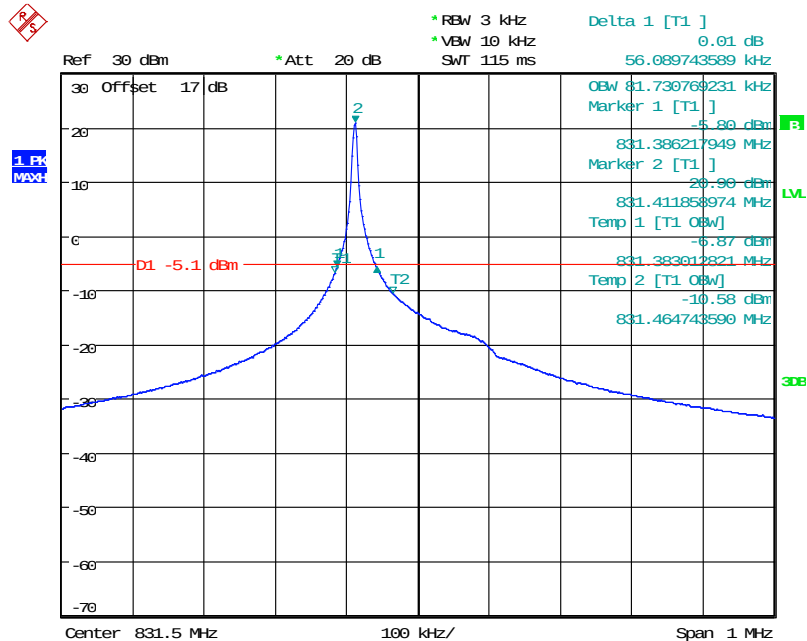
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

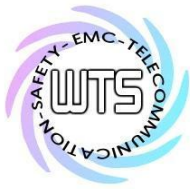


Date: 10.OCT.2024 16:22:07

QPSK

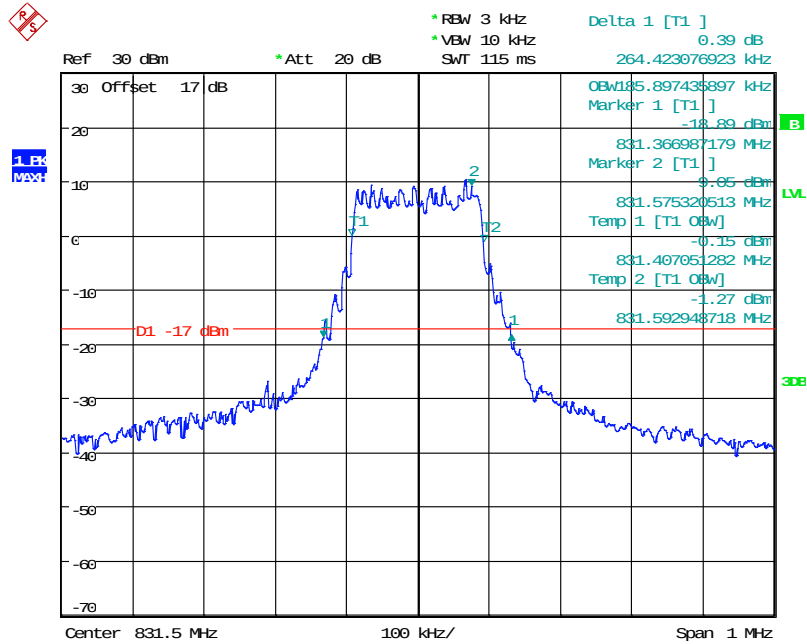


Date: 10.OCT.2024 16:15:41



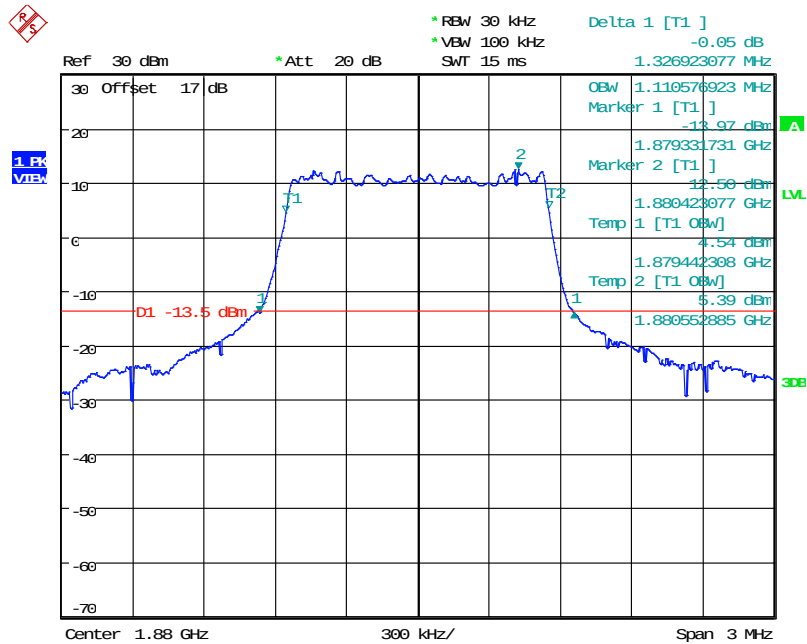
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

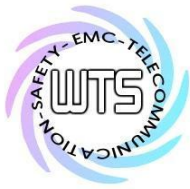


Date: 10.OCT.2024 16:17:38

Cat M1
Band 2
1.4 MHz
QPSK
FRB



Date: 7.OCT.2024 19:23:53



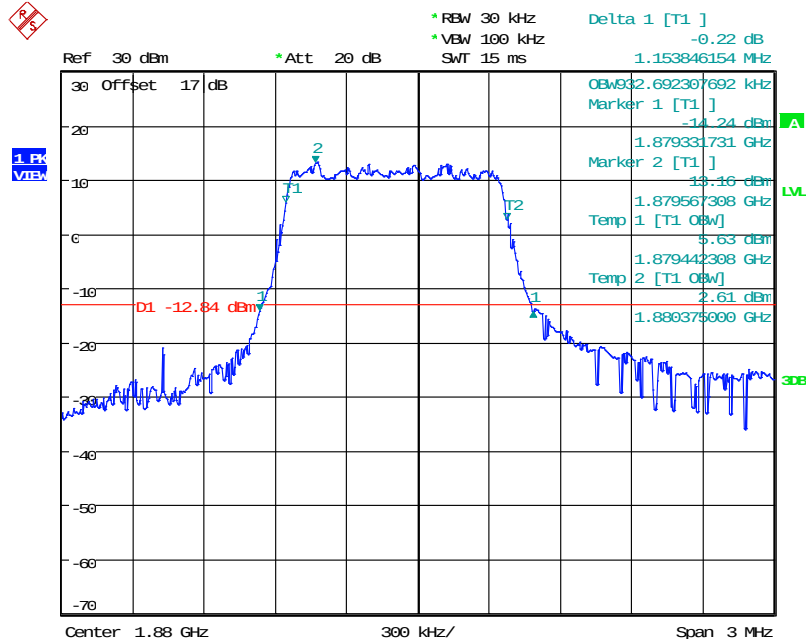
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

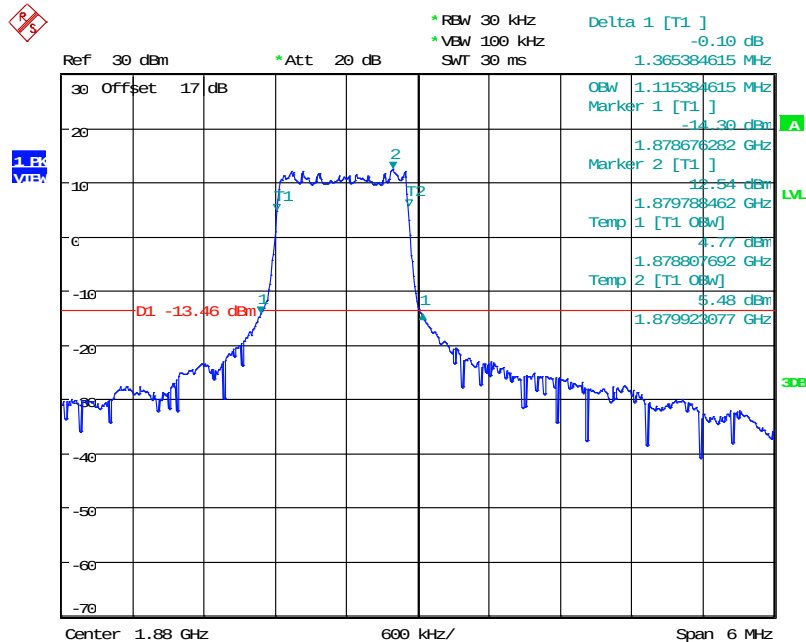


Date: 7.OCT.2024 19:21:24

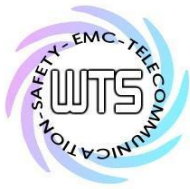
3 MHz

QPSK

FRB



Date: 7.OCT.2024 18:04:31



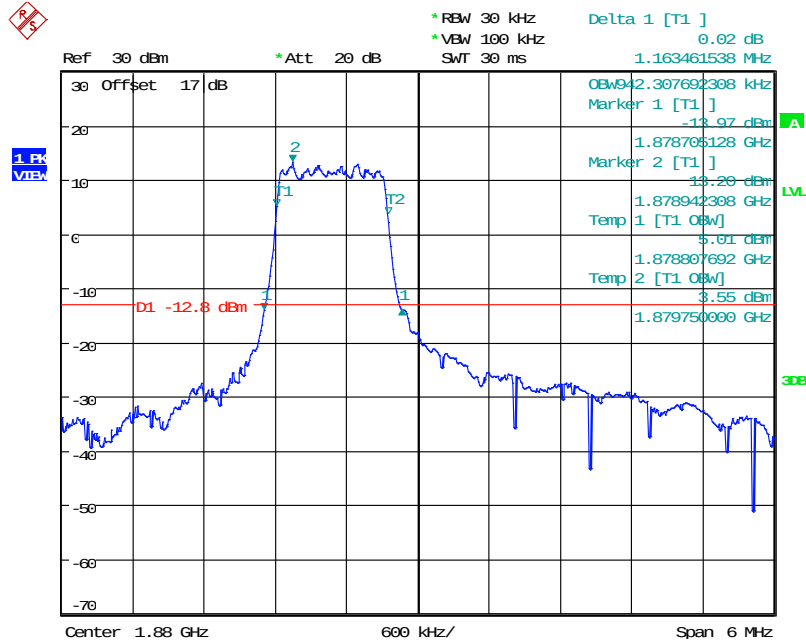
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

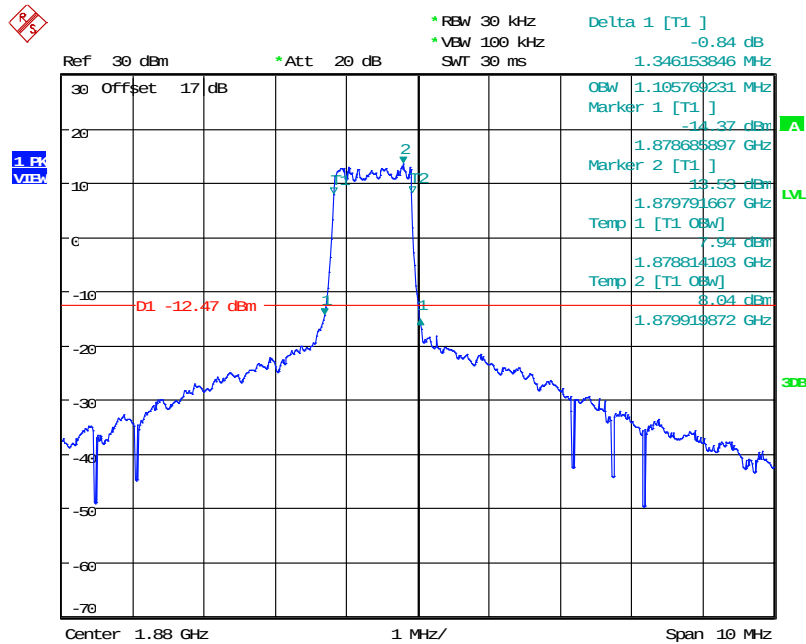


Date: 7.OCT.2024 18:06:17

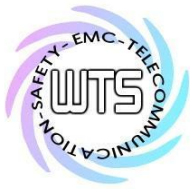
5 MHz

QPSK

FRB



Date: 7.OCT.2024 17:21:23



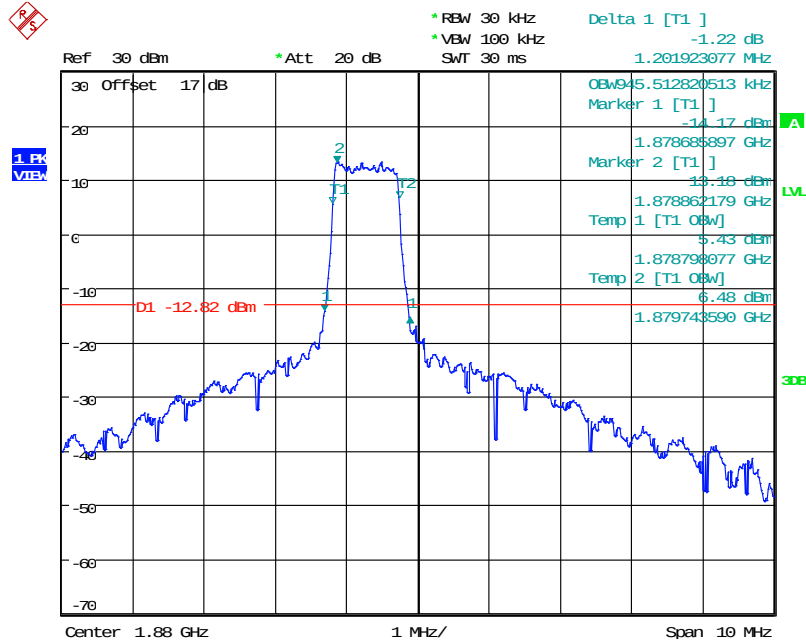
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

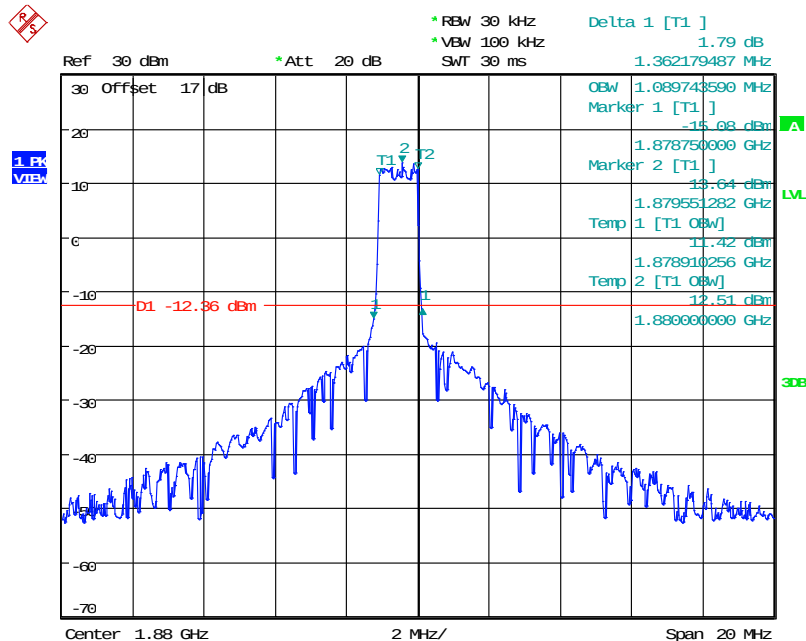


Date: 7.OCT.2024 17:18:59

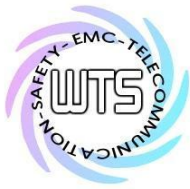
10 MHz

QPSK

FRB



Date: 7.OCT.2024 17:07:35



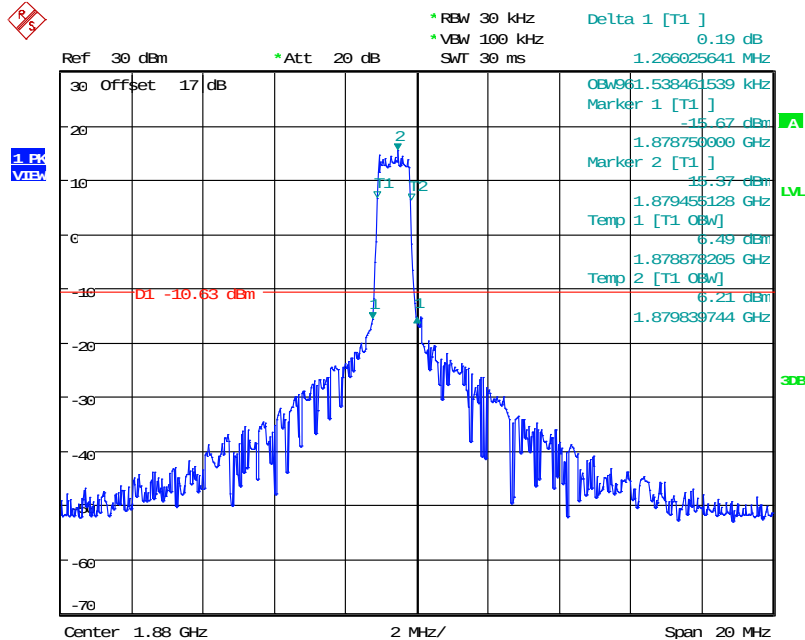
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

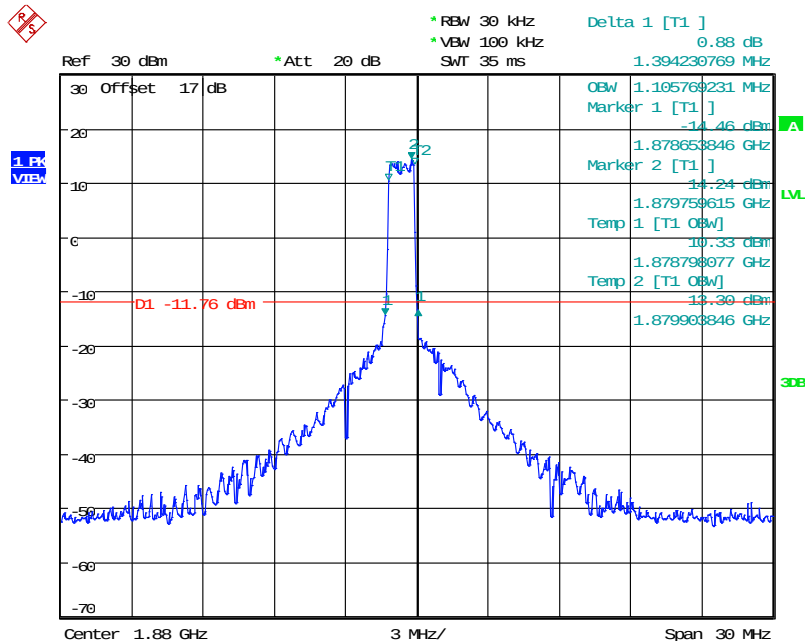


Date: 7.OCT.2024 17:09:07

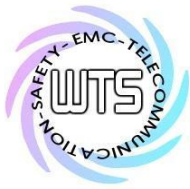
15 MHz

QPSK

FRB



Date: 7.OCT.2024 15:41:14



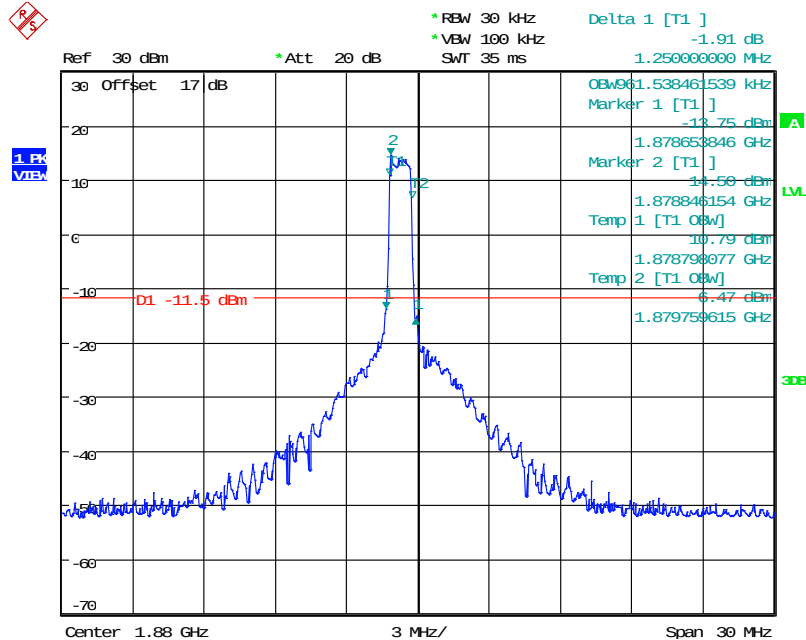
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

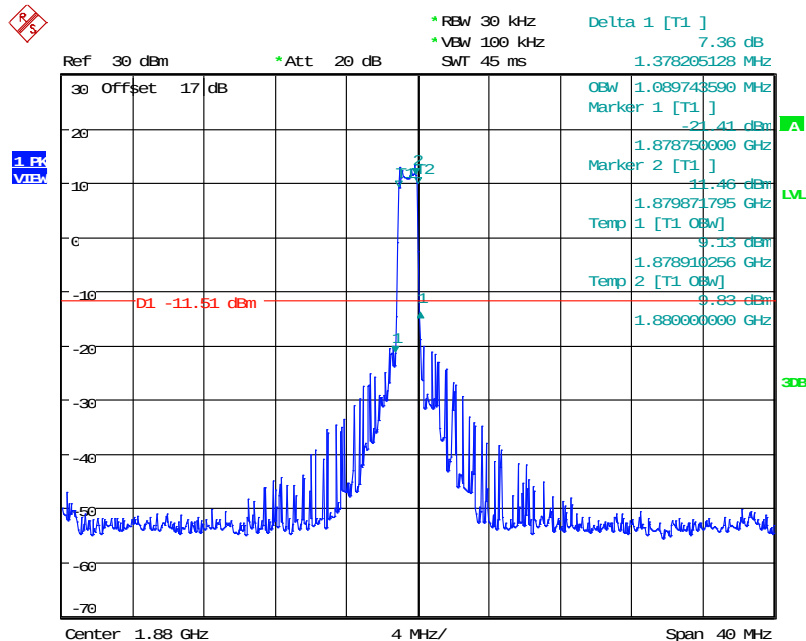


Date: 7.OCT.2024 15:43:14

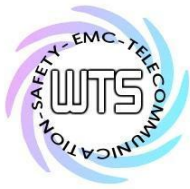
20 MHz

QPSK

FRB



Date: 7.OCT.2024 14:53:23

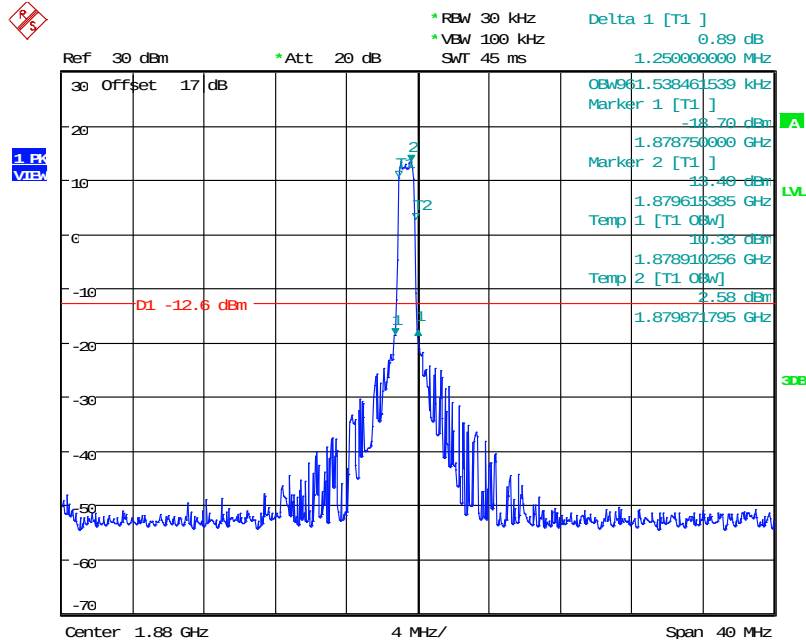


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

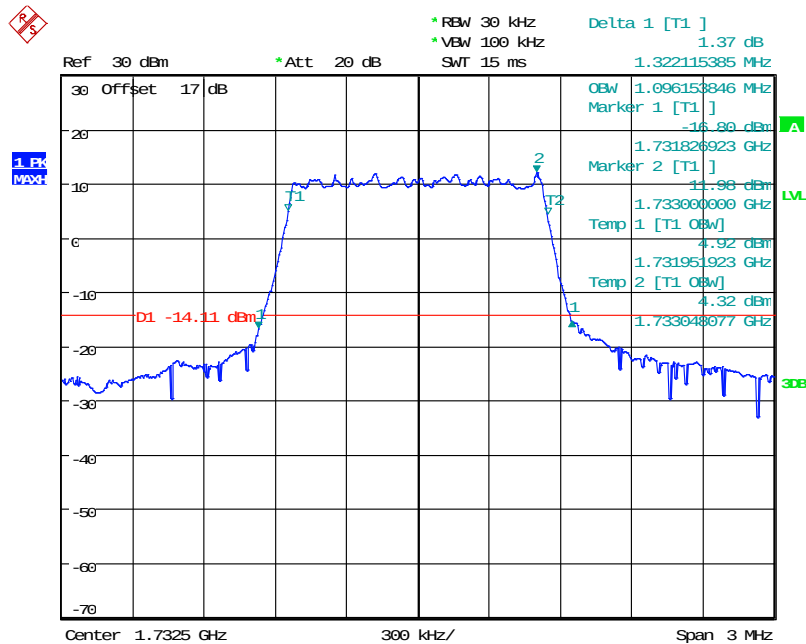
16QAM

FRB

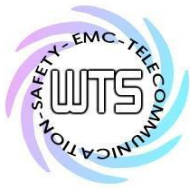


Date: 7.OCT.2024 14:59:12

Band 4
1.4 MHz
QPSK
FRB



Date: 11.OCT.2024 17:31:25

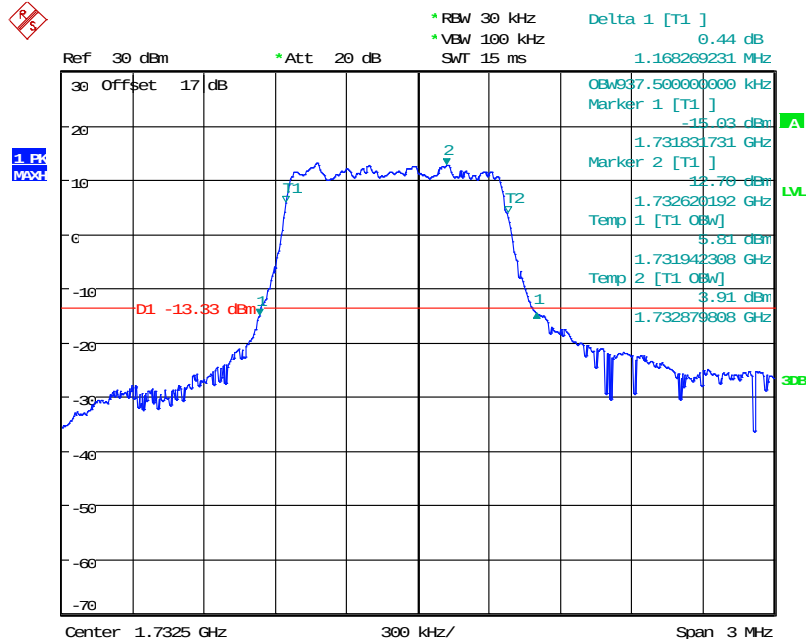


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

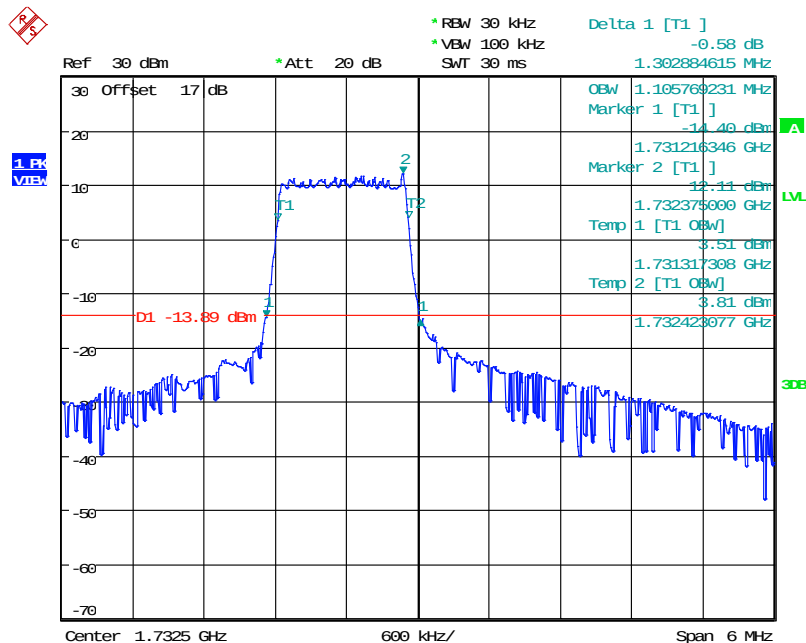


Date: 11.OCT.2024 17:32:31

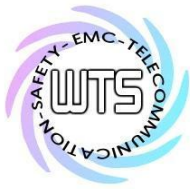
3 MHz

QPSK

FRB



Date: 11.OCT.2024 17:47:31



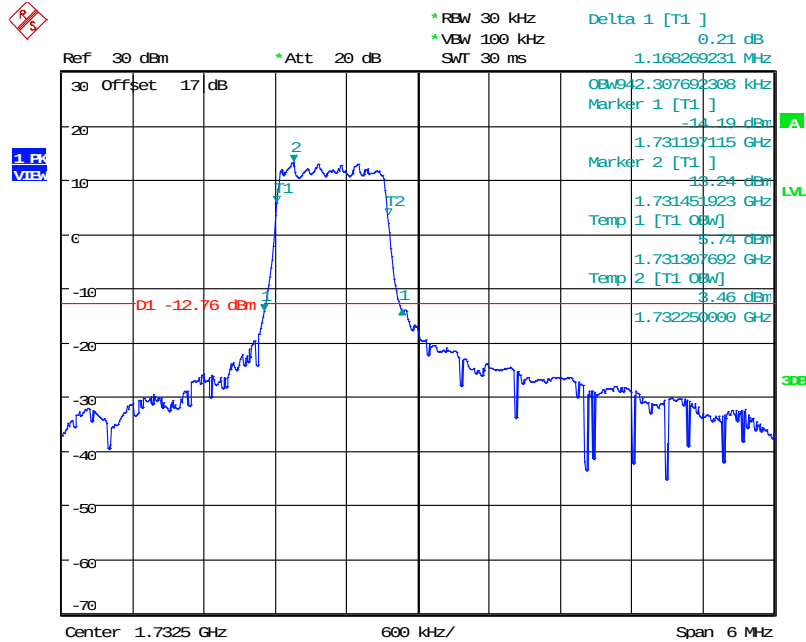
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

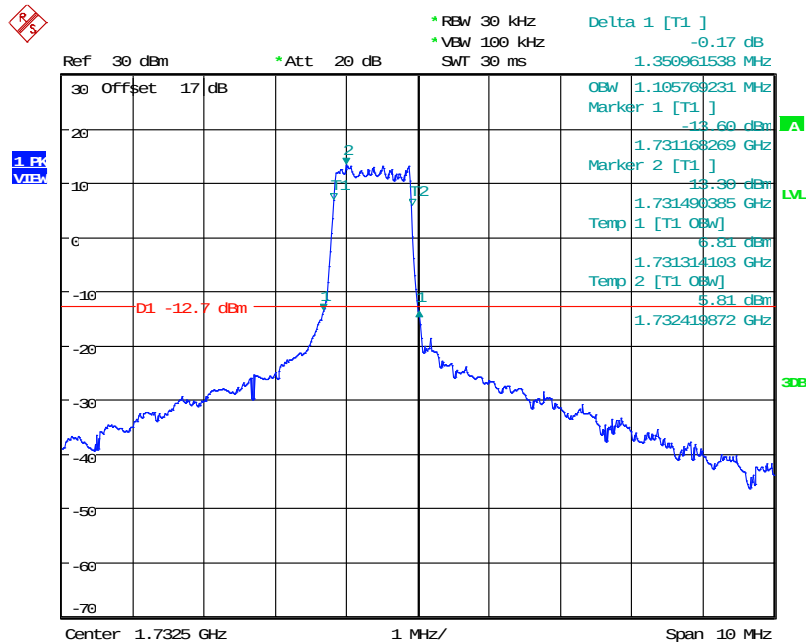


Date: 11.OCT.2024 17:45:56

5 MHz

QPSK

FRB



Date: 11.OCT.2024 17:50:34

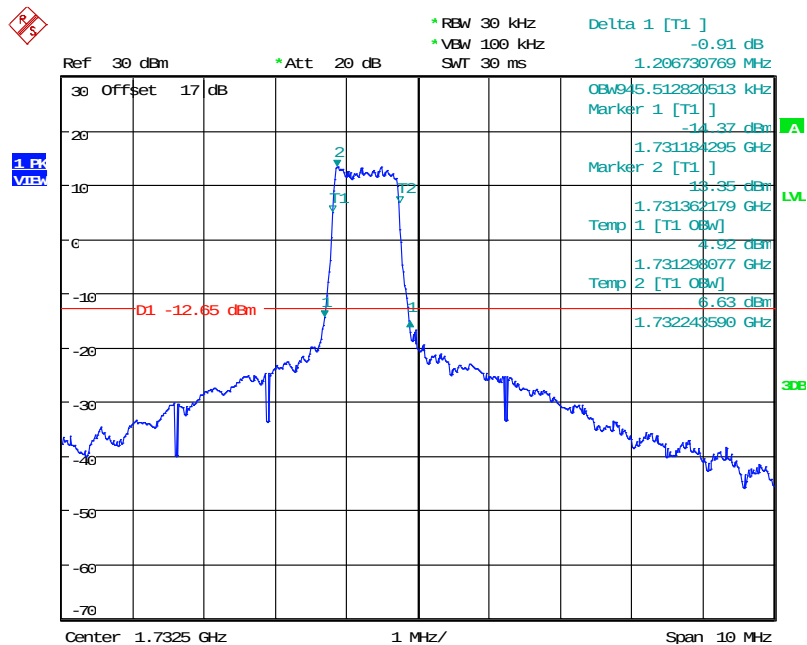


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

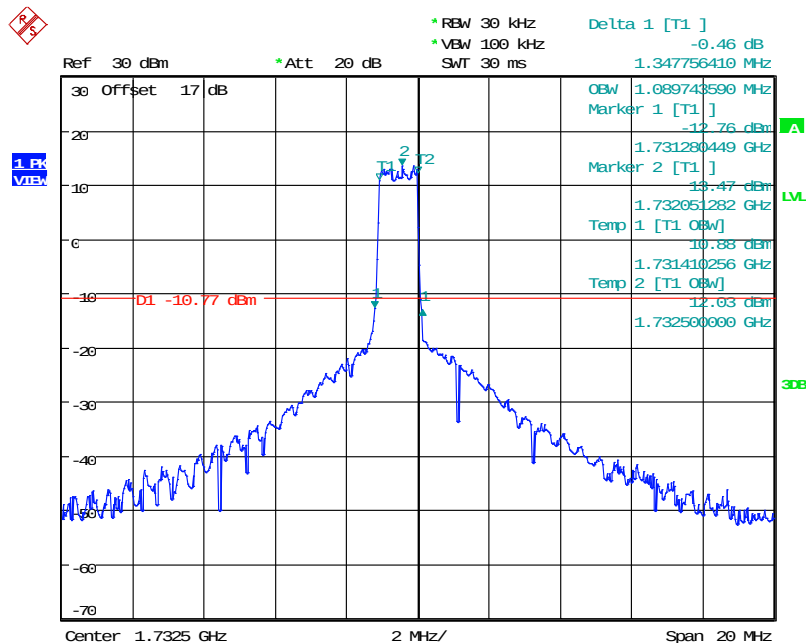


Date: 11.OCT.2024 17:55:09

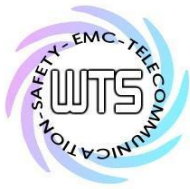
10 MHz

QPSK

FRB



Date: 11.OCT.2024 19:50:07



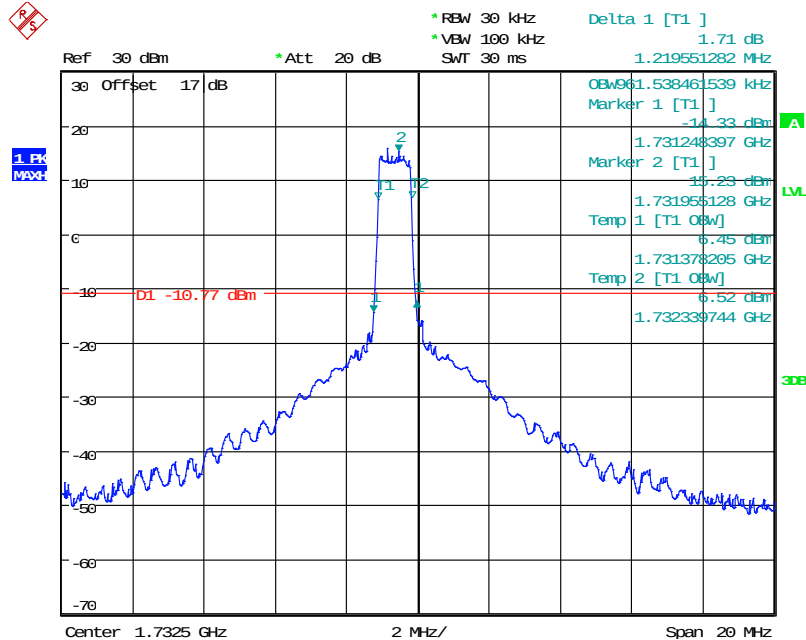
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

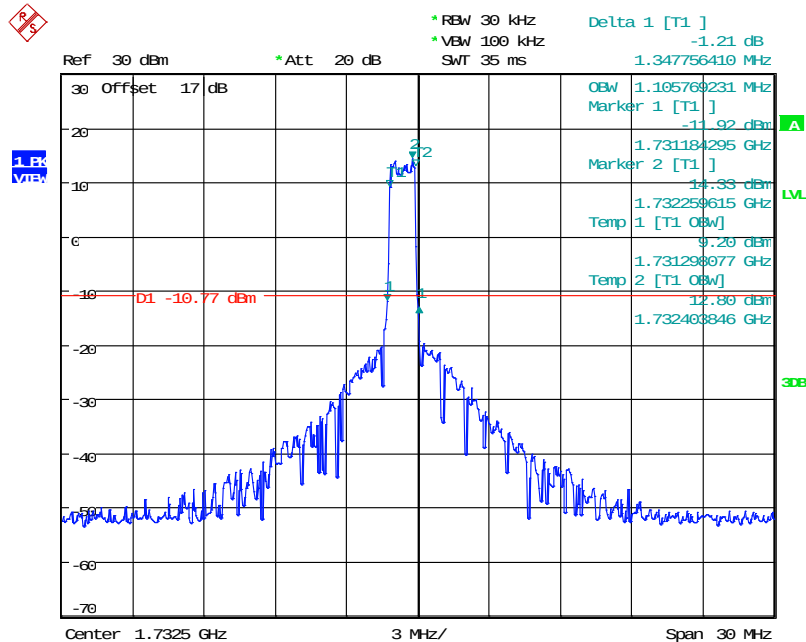


Date: 11.OCT.2024 19:48:47

15 MHz

QPSK

FRB



Date: 11.OCT.2024 19:54:24

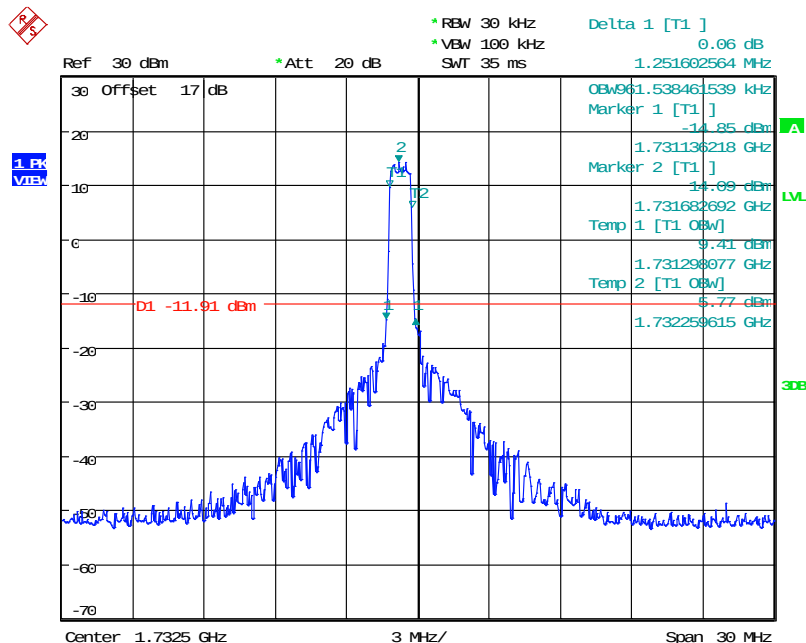


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

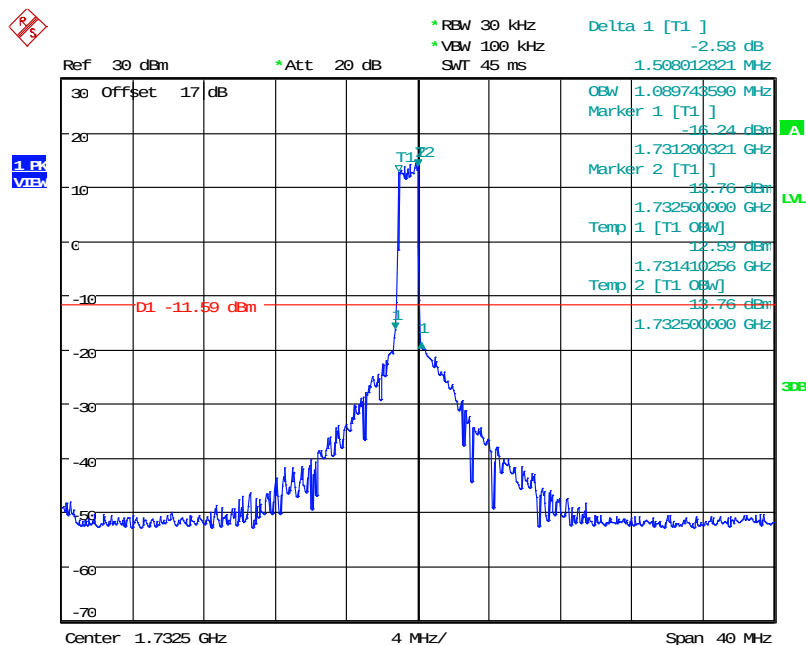


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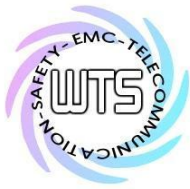
20 MHz

QPSK

FRB



Date: 11.OCT.2024 20:05:58

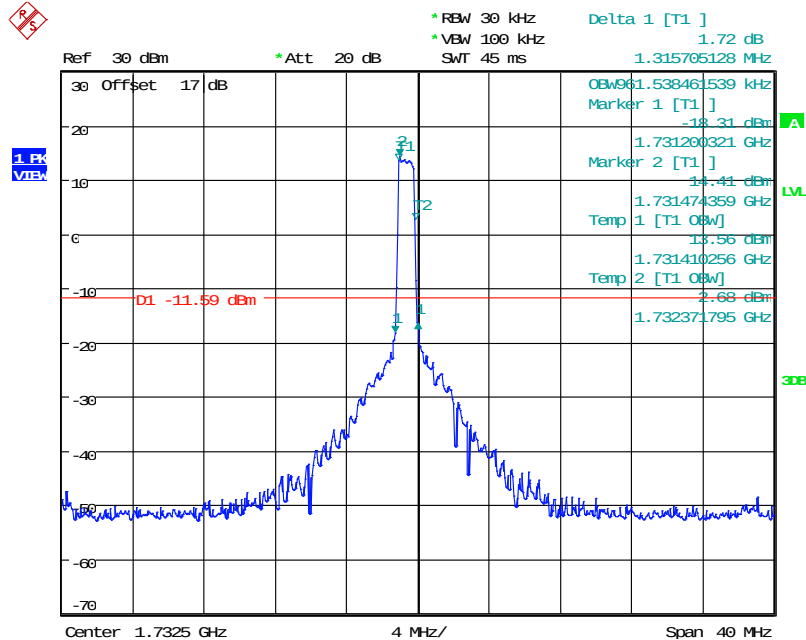


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB



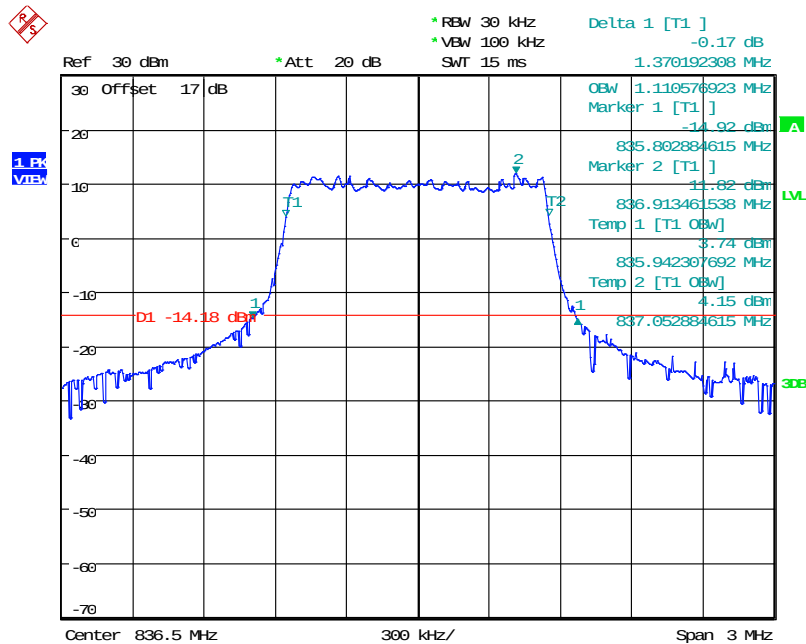
Date: 11.OCT.2024 20:04:39

Band 5

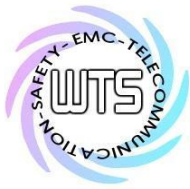
1.4 MHz

QPSK

FRB



Date: 11.OCT.2024 20:56:53



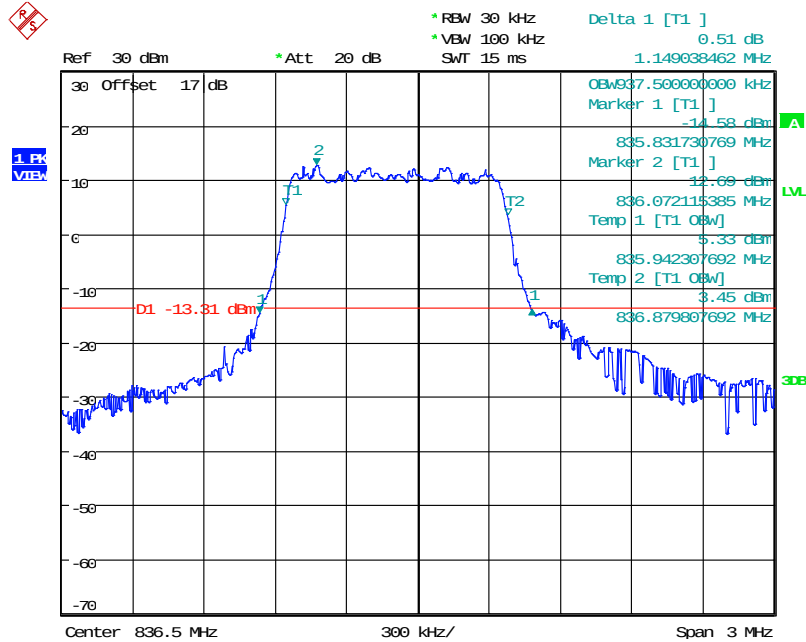
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

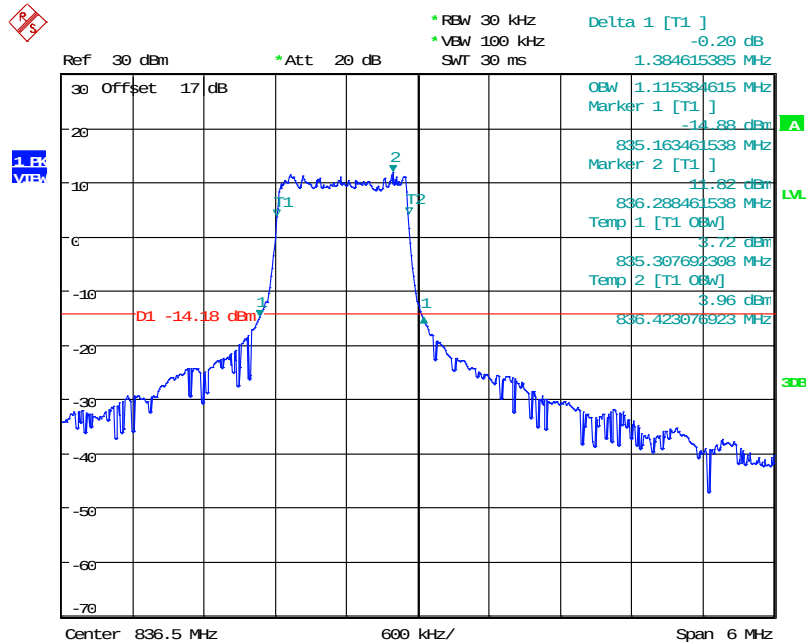


Date: 11.OCT.2024 20:54:17

3 MHz

QPSK

FRB



Date: 11.OCT.2024 20:48:49

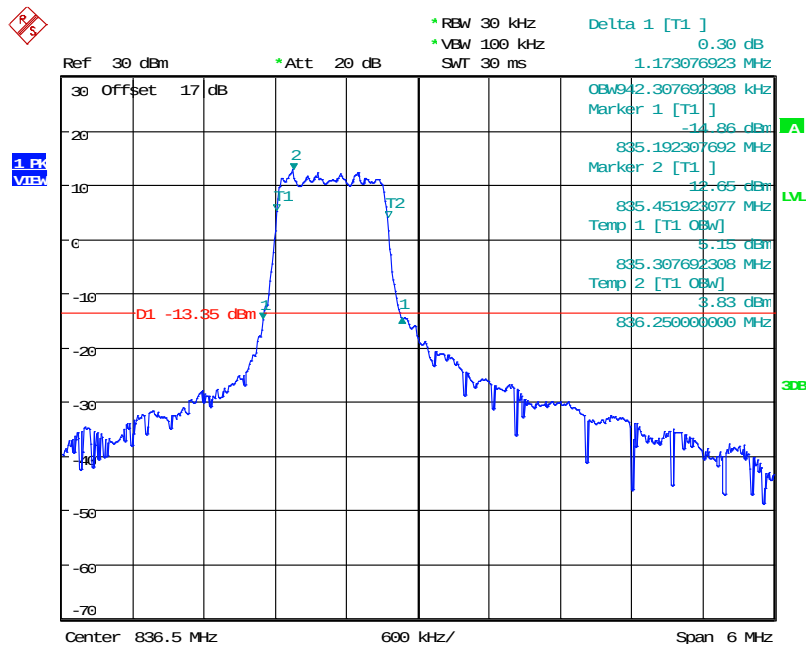


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

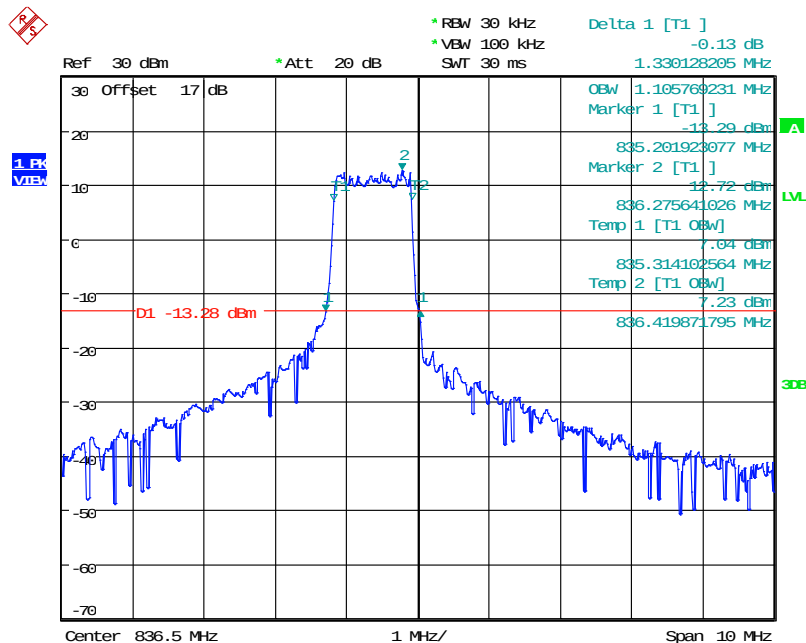


Date: 11.OCT.2024 20:50:43

5 MHz

QPSK

FRB



Date: 11.OCT.2024 20:45:09

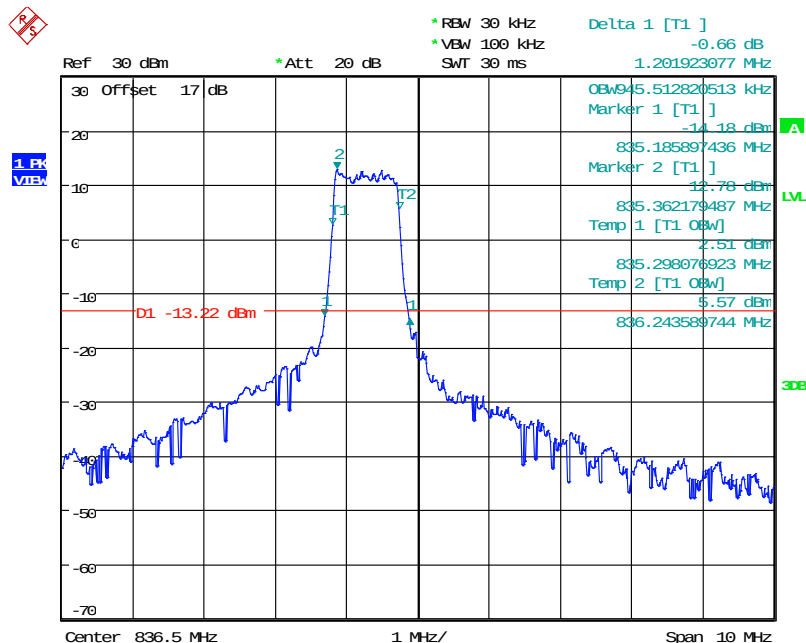


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

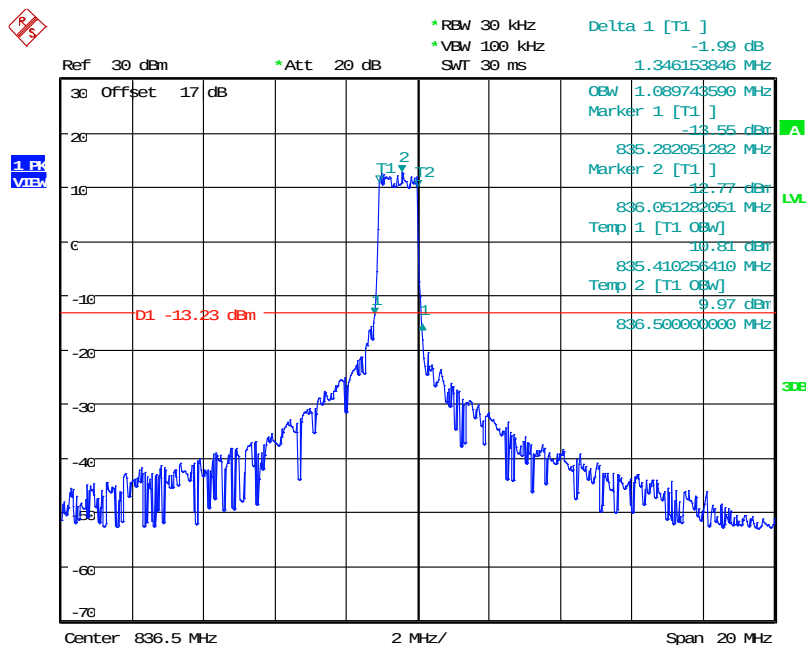


Date: 11.OCT.2024 20:42:29

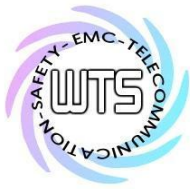
10 MHz

QPSK

FRB



Date: 11.OCT.2024 20:36:30

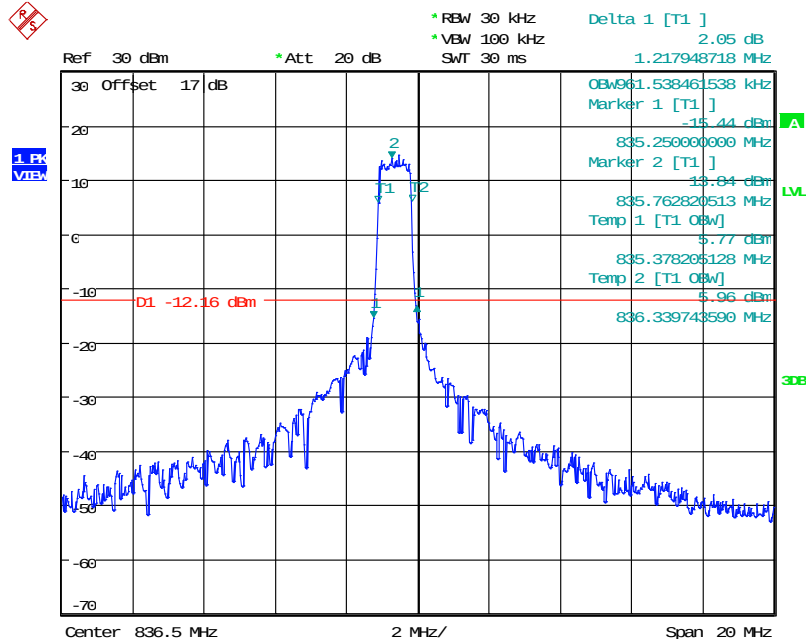


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB



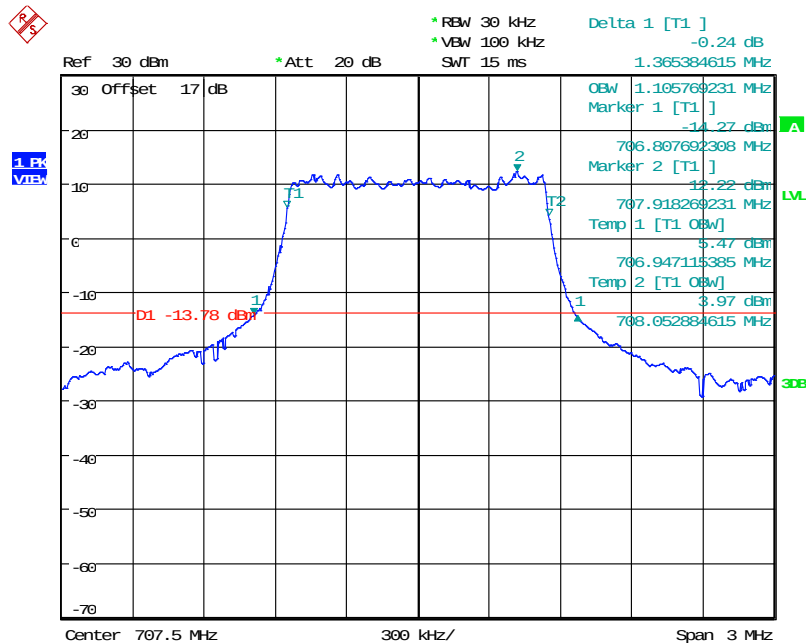
Date: 11.OCT.2024 20:34:56

Band 12

1.4 MHz

QPSK

FRB



Date: 11.OCT.2024 21:02:28



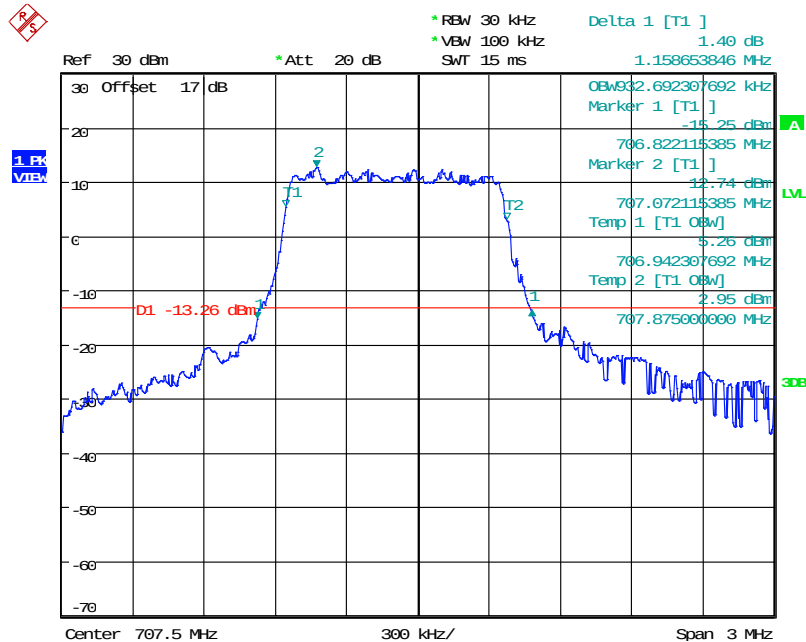
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

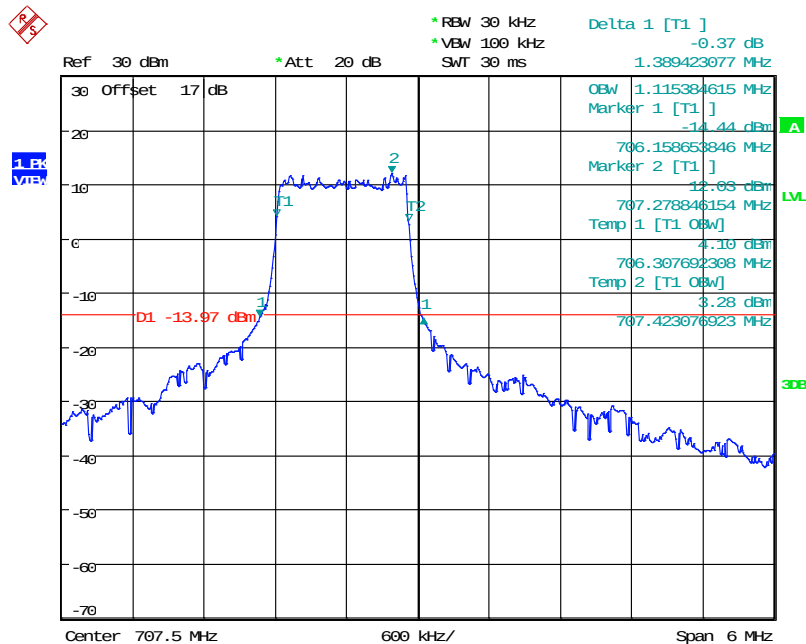


Date: 11.OCT.2024 21:04:14

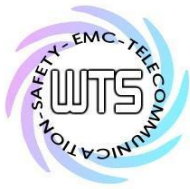
3 MHz

QPSK

FRB



Date: 11.OCT.2024 21:13:27

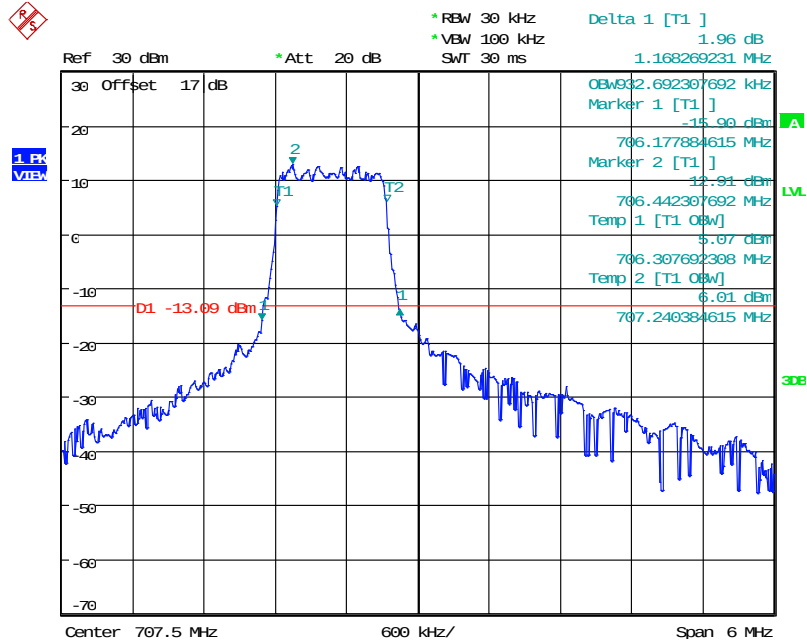


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

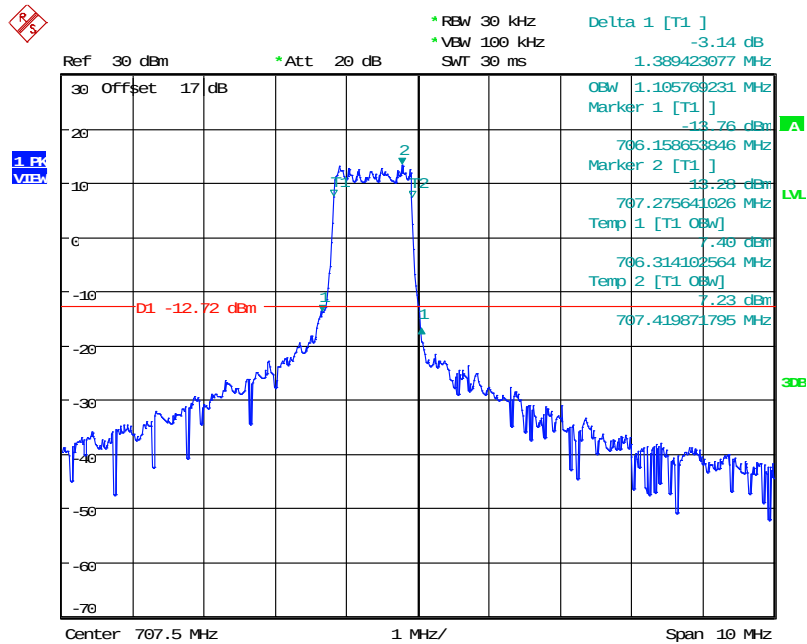


Date: 11.OCT.2024 21:11:43

5 MHz

QPSK

FRB



Date: 11.OCT.2024 21:17:38

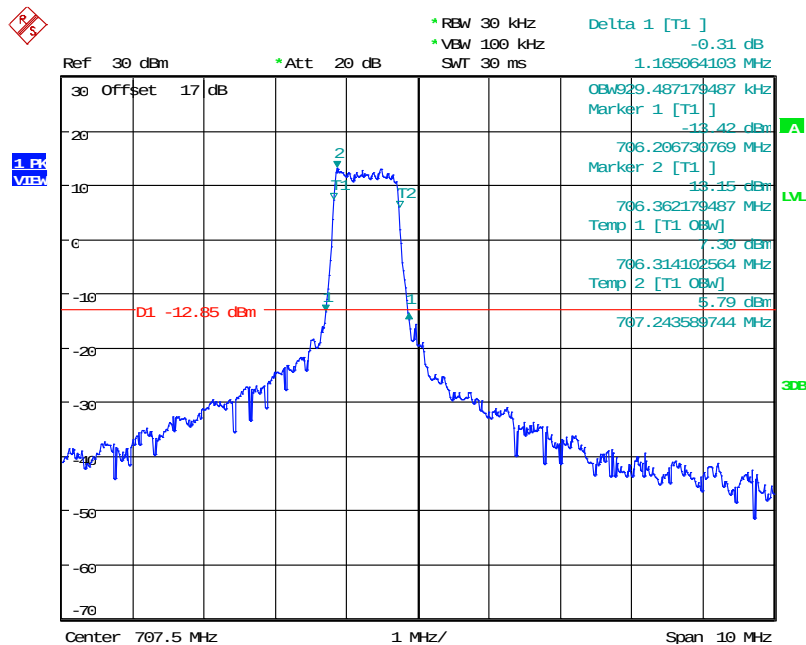


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

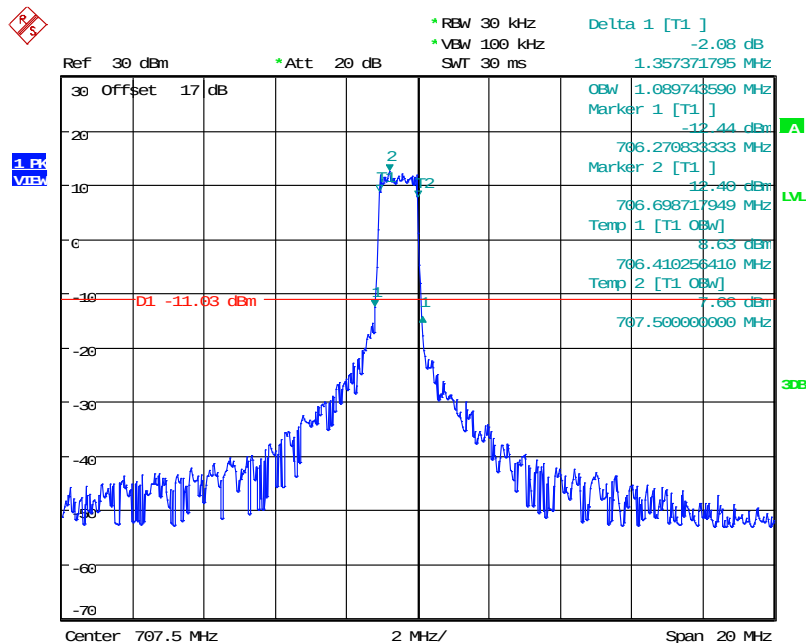


Date: 11.OCT.2024 21:20:12

10 MHz

QPSK

FRB



Date: 11.OCT.2024 21:25:00

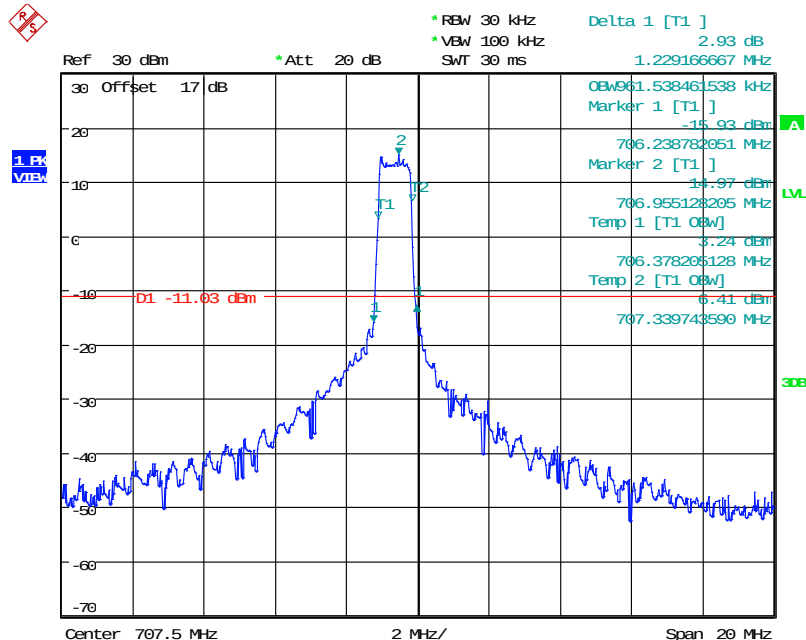


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB



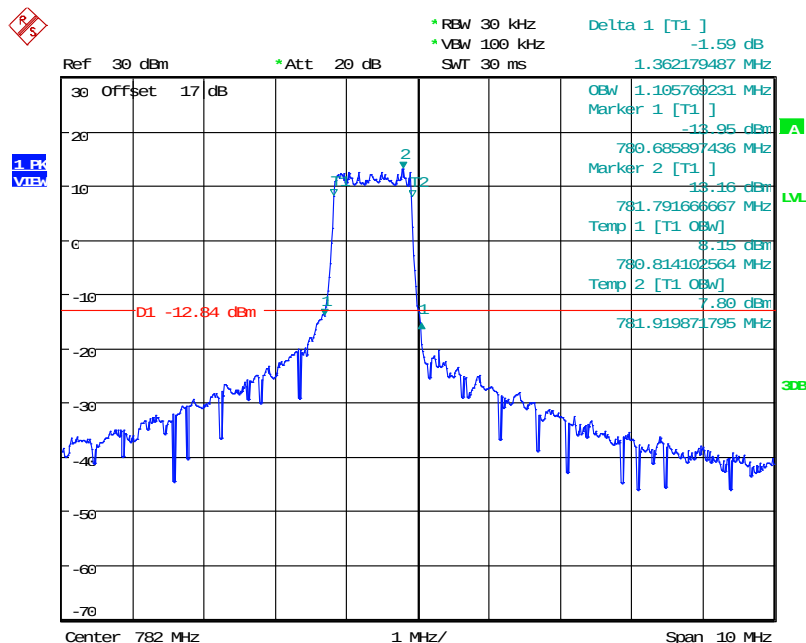
Date: 11.OCT.2024 21:23:38

Band 13

5 MHz

QPSK

FRB



Date: 12.OCT.2024 13:12:55

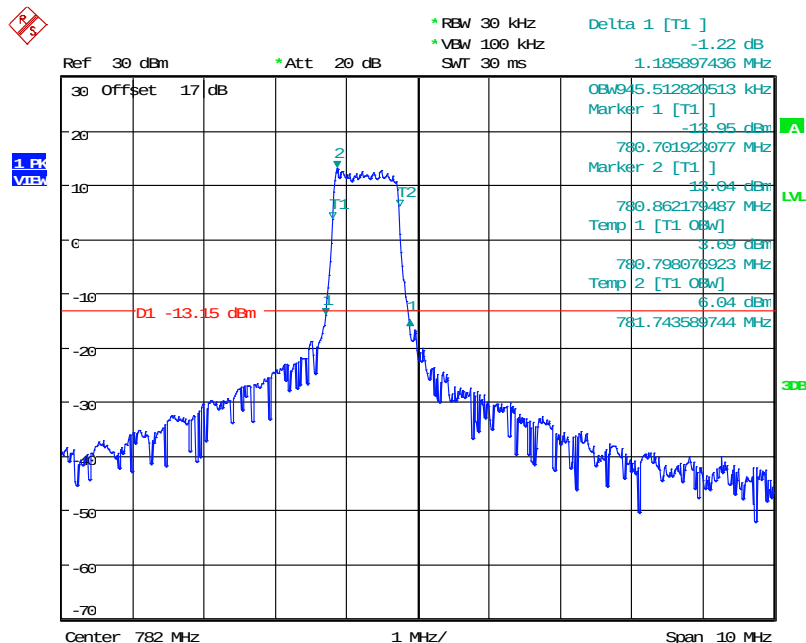


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

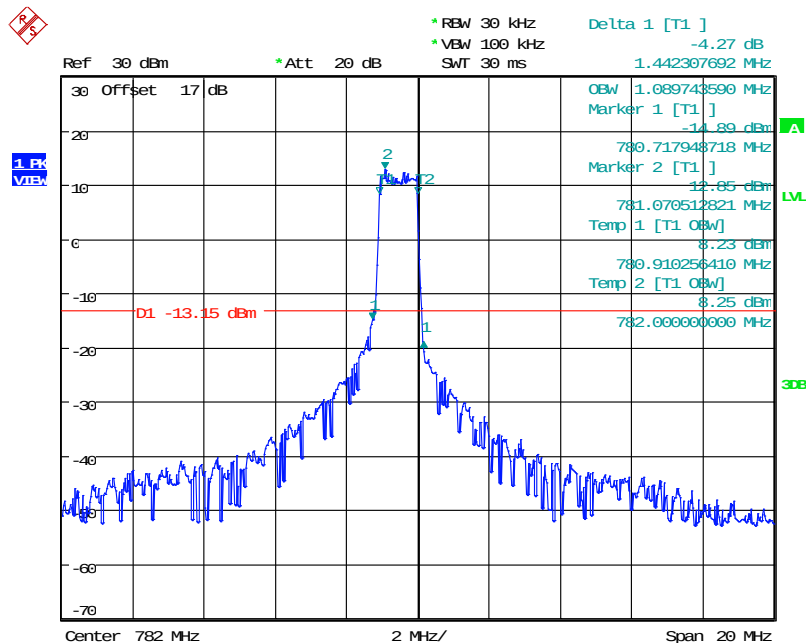


Date: 12.OCT.2024 13:11:11

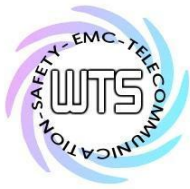
10 MHz

QPSK

FRB



Date: 12.OCT.2024 13:05:51

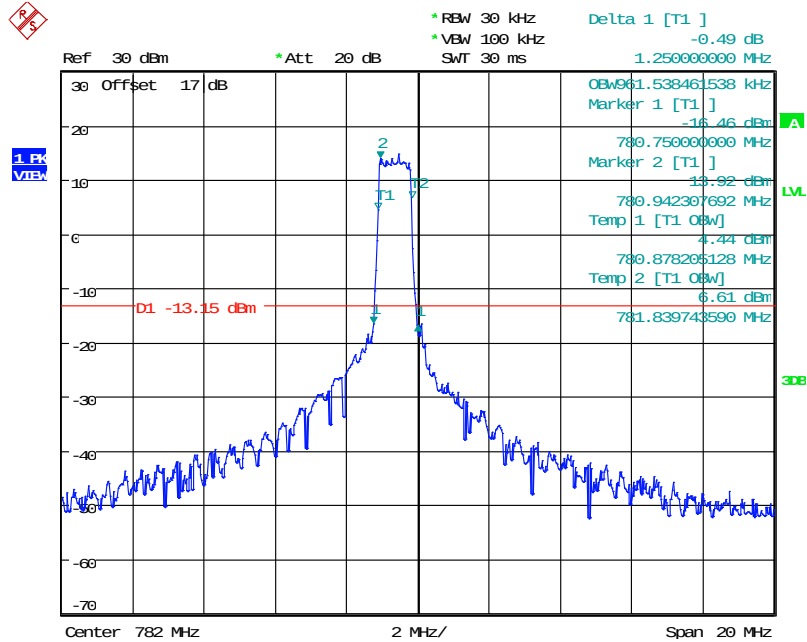


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB



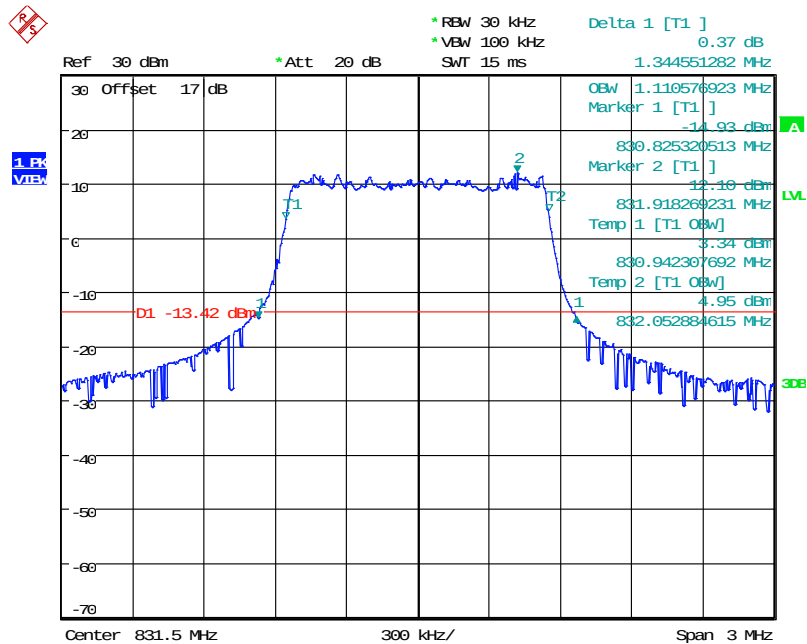
Date: 12.OCT.2024 13:07:48

Band 26

1.4 MHz

QPSK

FRB



Date: 12.OCT.2024 13:59:16



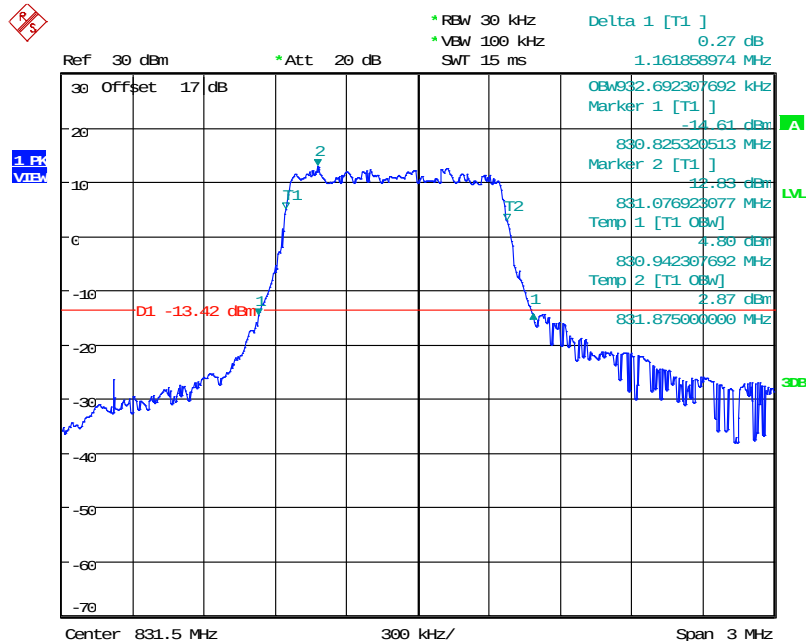
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

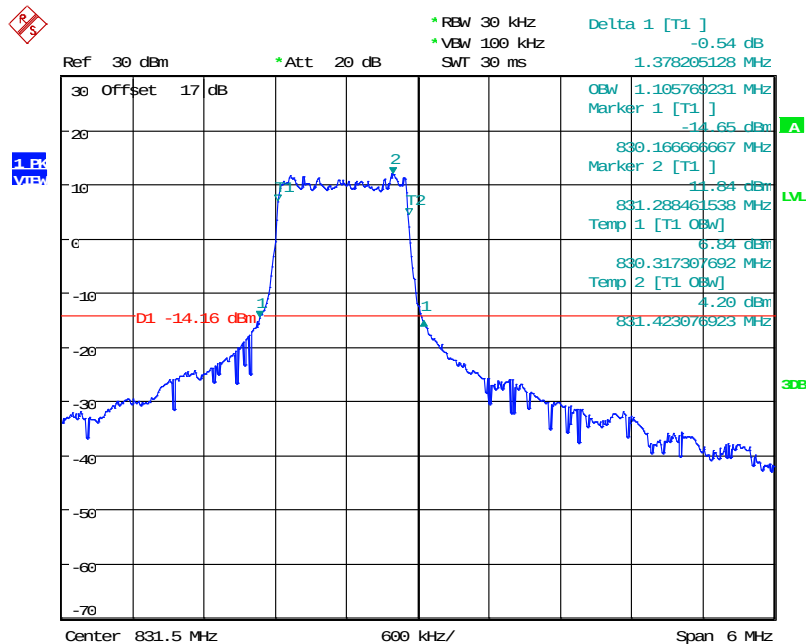


Date: 12.OCT.2024 13:57:40

3 MHz

QPSK

FRB



Date: 12.OCT.2024 13:52:21

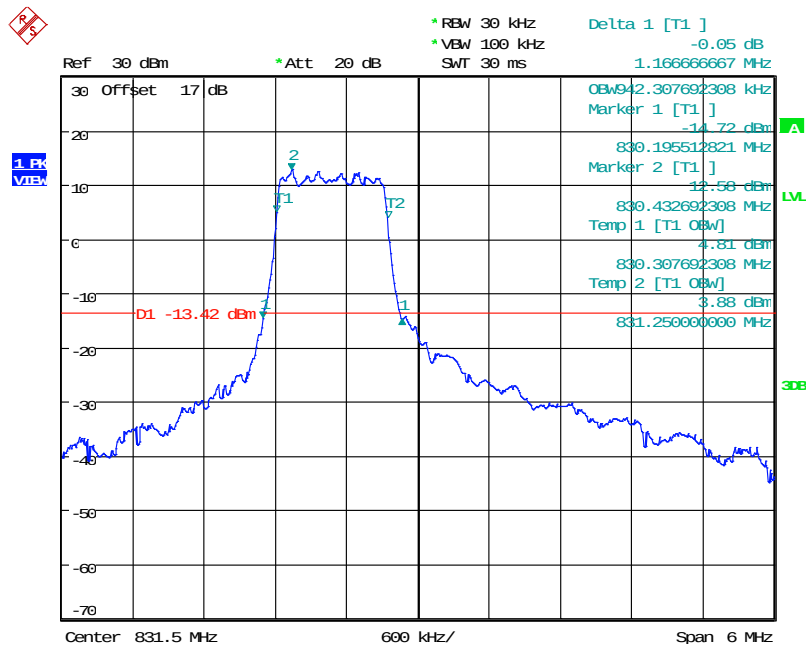


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

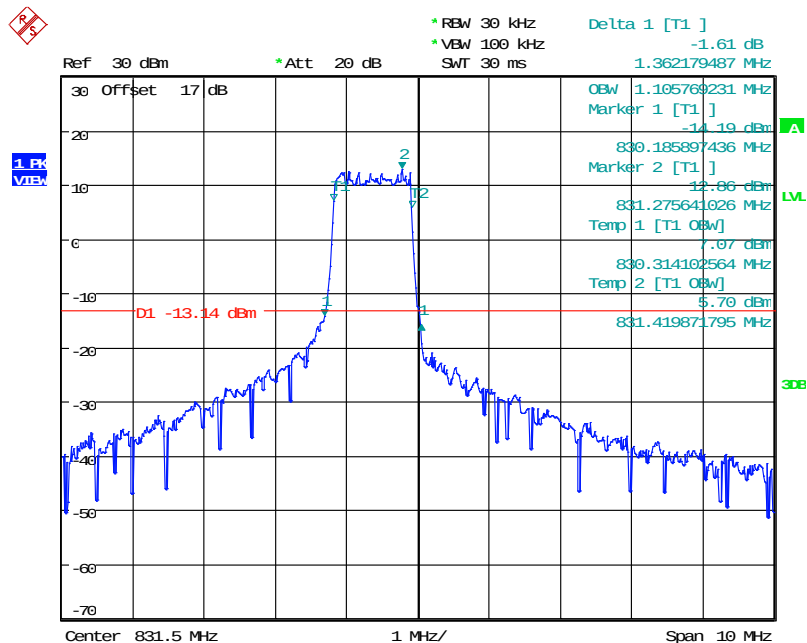


Date: 12.OCT.2024 13:54:36

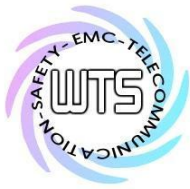
5 MHz

QPSK

FRB



Date: 12.OCT.2024 13:30:25



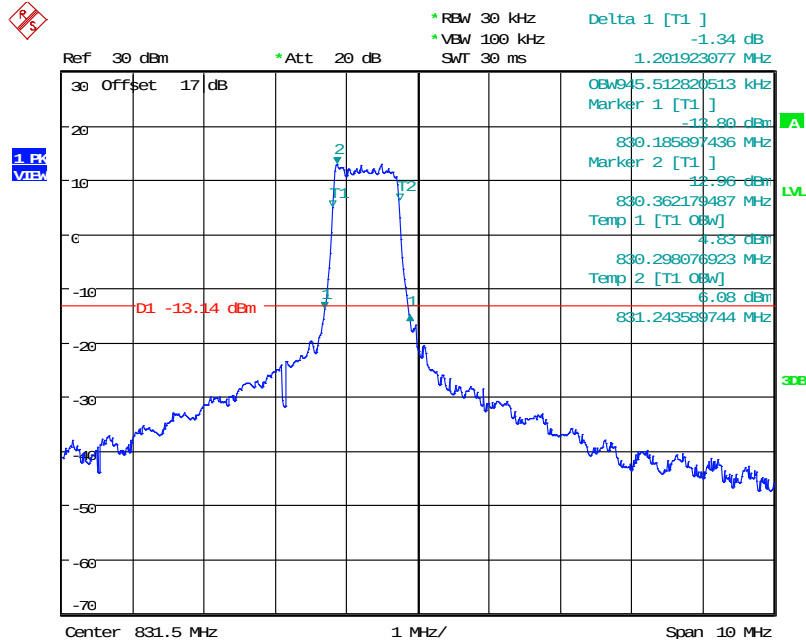
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

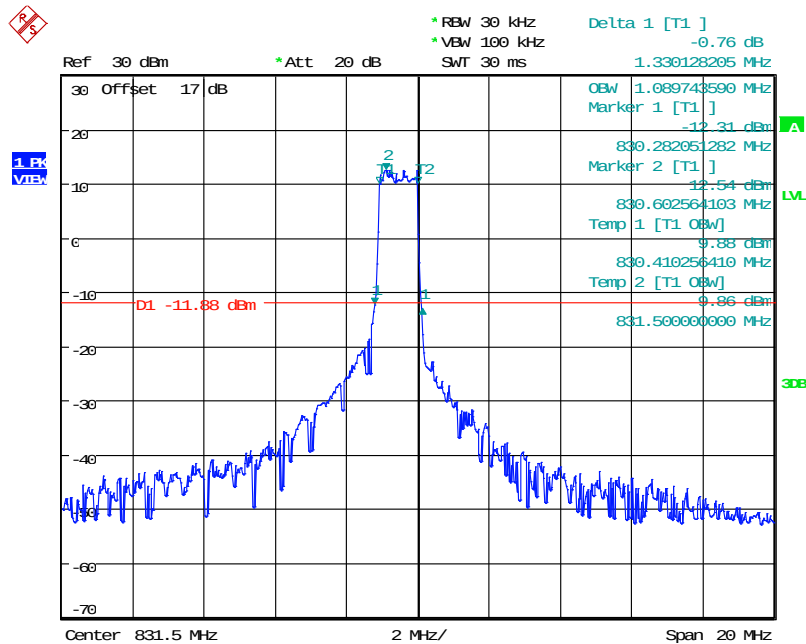


Date: 12.OCT.2024 13:32:20

10 MHz

QPSK

FRB



Date: 12.OCT.2024 13:36:16

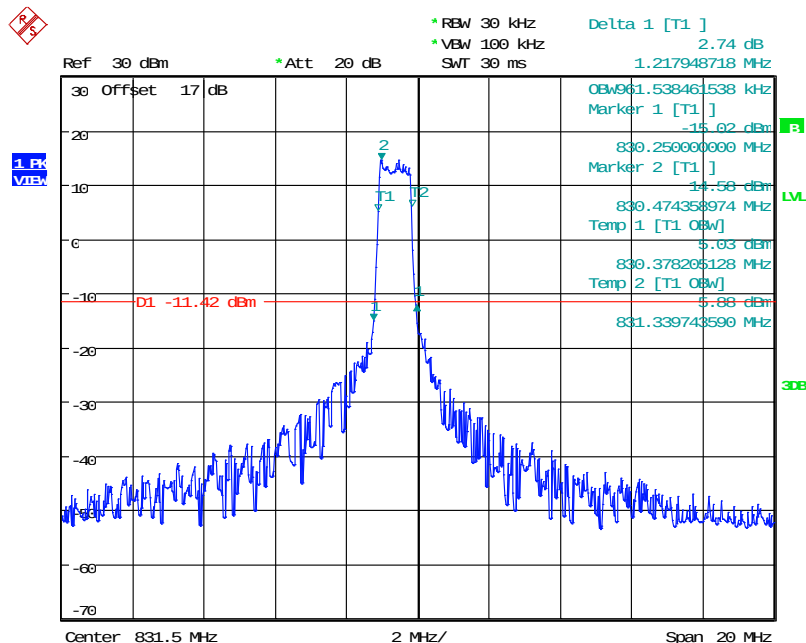


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB

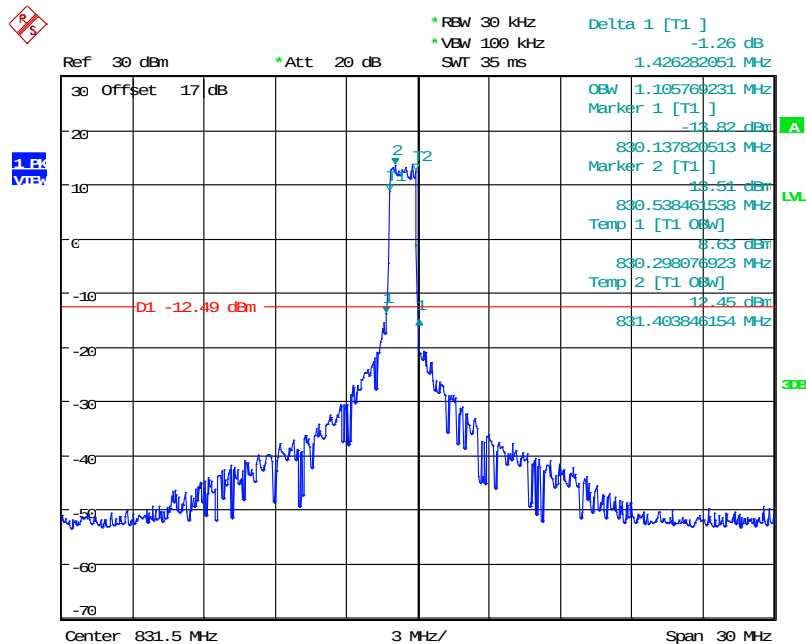


Date: 15.OCT.2024 17:13:03

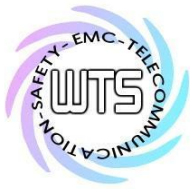
15 MHz

QPSK

FRB



Date: 12.OCT.2024 13:42:40



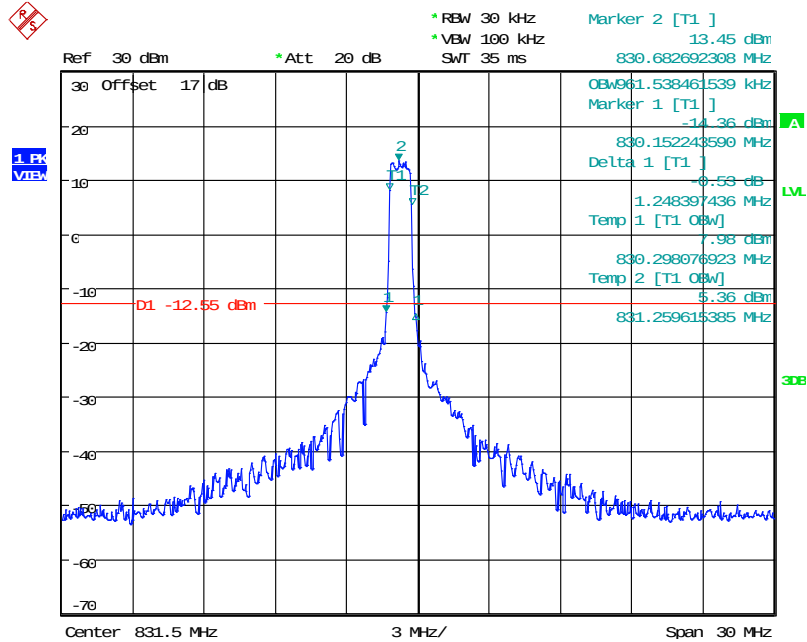
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

16QAM

FRB



Date: 12.OCT.2024 14:09:49

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

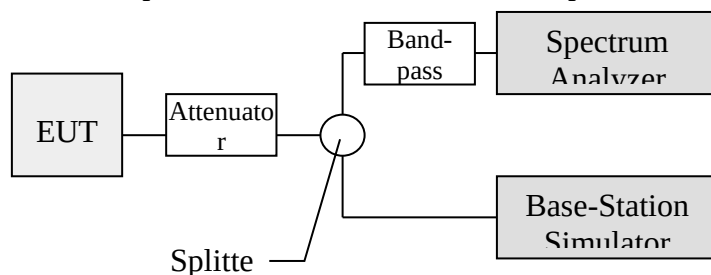
7 Spurious Emissions at Antenna Terminals

7.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

Tests were performed with an unmodulated carrier at three frequencies (low, middle and high channels) and on all power levels , which can be set-up on the transmitters.



7.2 Test Results

Test date: October 08, 2024- October 10, 2024

Temperature: 25.3 °C

Humidity: 54.6 %

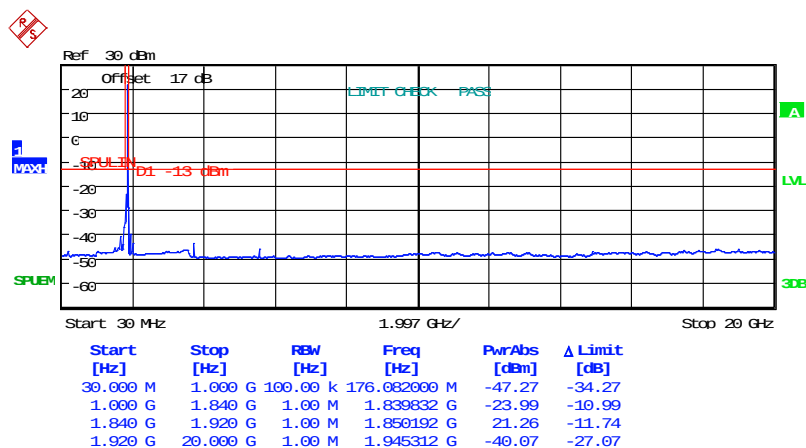
Tester: Rick

NB-IOT

Band 2

5 MHz

QPSK

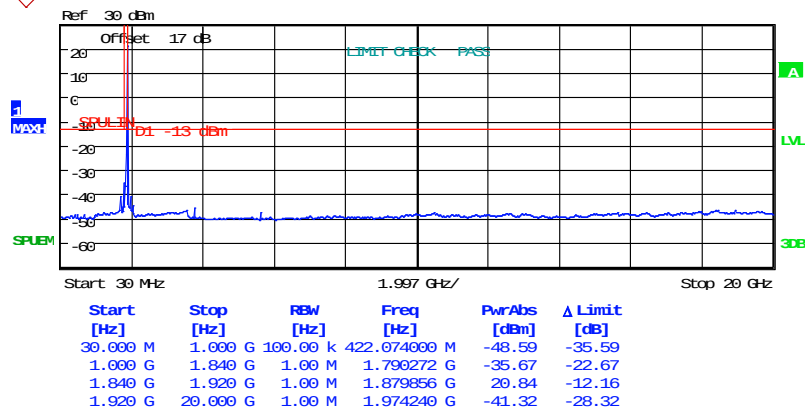


Date: 9.OCT.2024 14:22:43

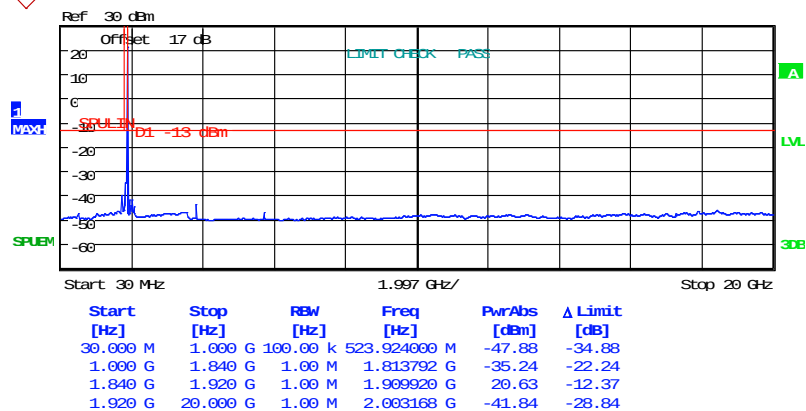


Registration number: W6M22409-23713-C-247

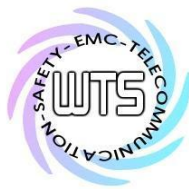
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 14:23:57



Date: 9.OCT.2024 14:25:35



Worldwide Testing Services(Taiwan) Co., Ltd.

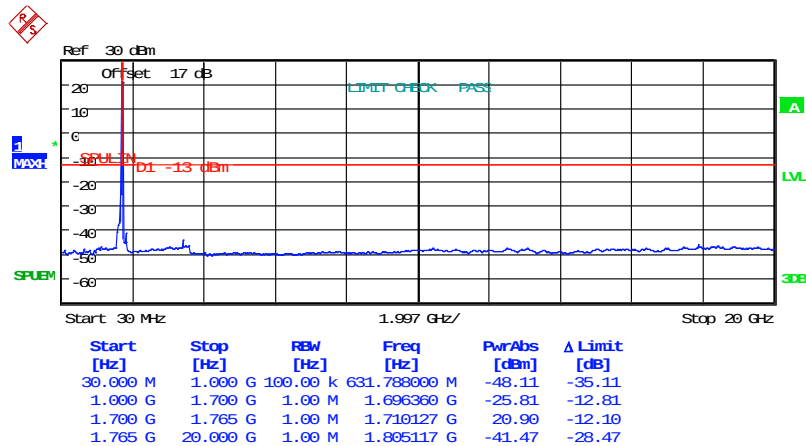
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

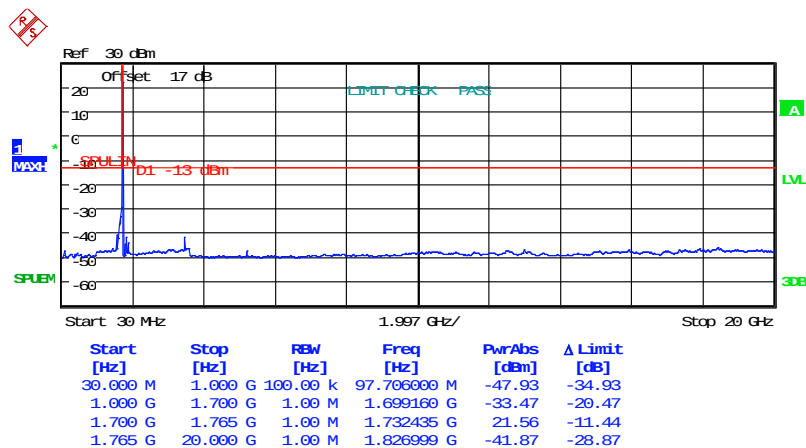
Band 4

5 MHz

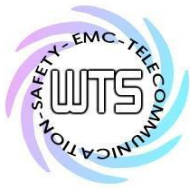
QPSK



Date: 9.OCT.2024 21:52:50

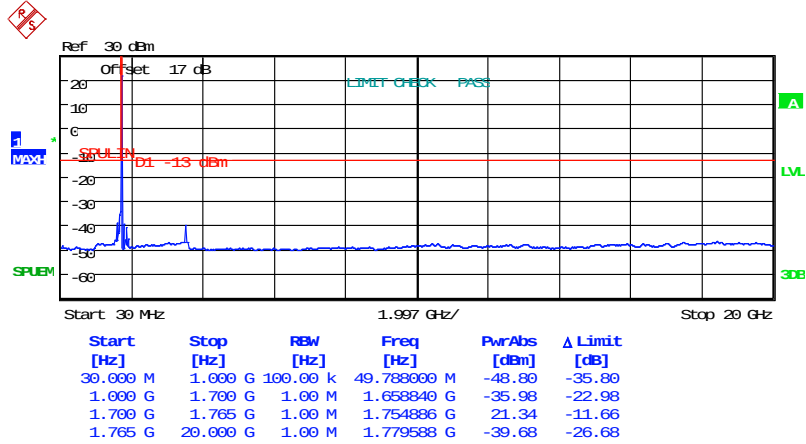


Date: 9.OCT.2024 21:51:24



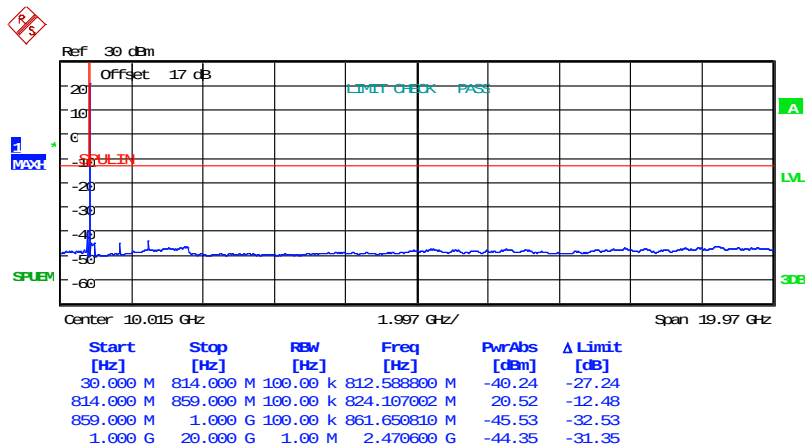
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

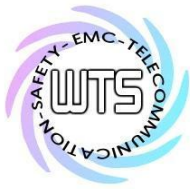


Date: 9.OCT.2024 21:53:49

Band 5
5 MHz
QPSK



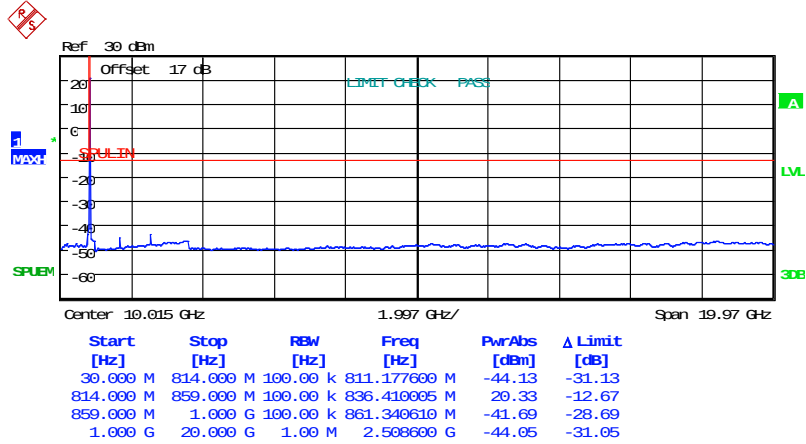
Date: 10.OCT.2024 15:14:50



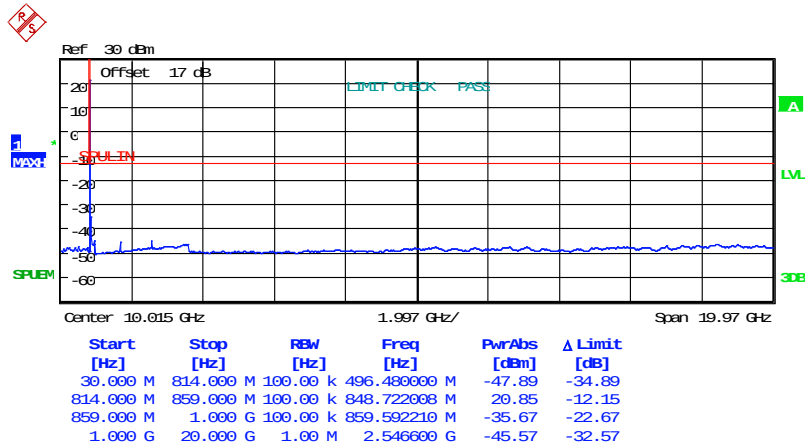
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 10.OCT.2024 15:11:35



Date: 10.OCT.2024 15:15:57



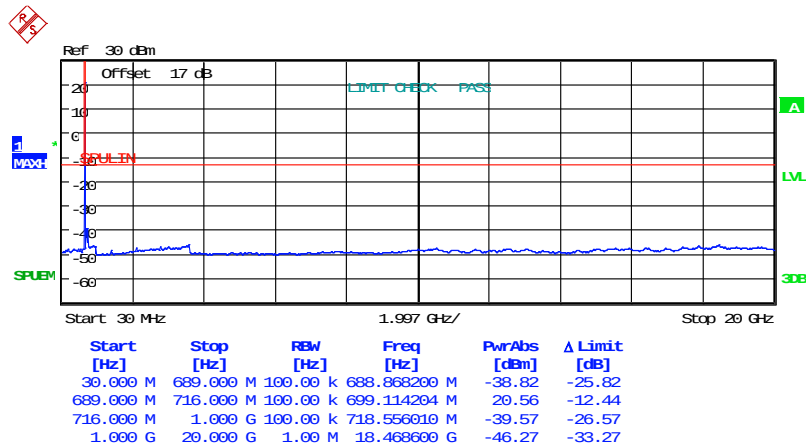
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

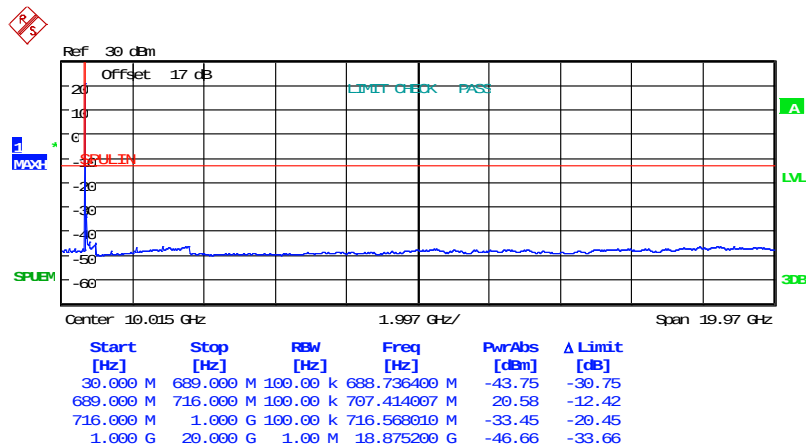
Band 12

5 MHz

QPSK



Date: 10.OCT.2024 15:20:33

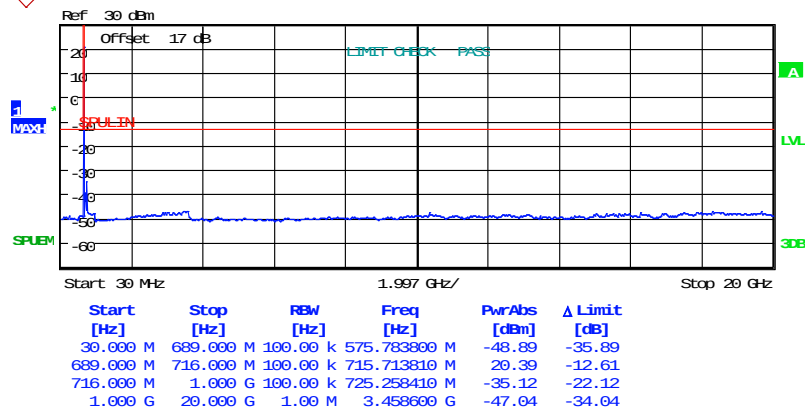


Date: 10.OCT.2024 15:18:24



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

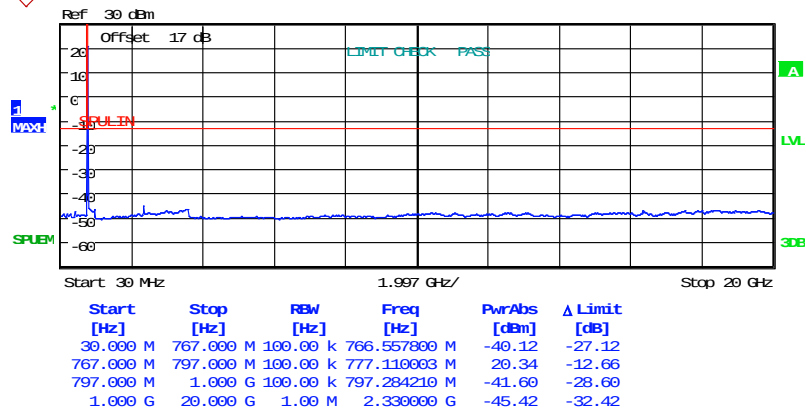


Date: 10.OCT.2024 15:21:50

Band 13

5 MHz

QPSK



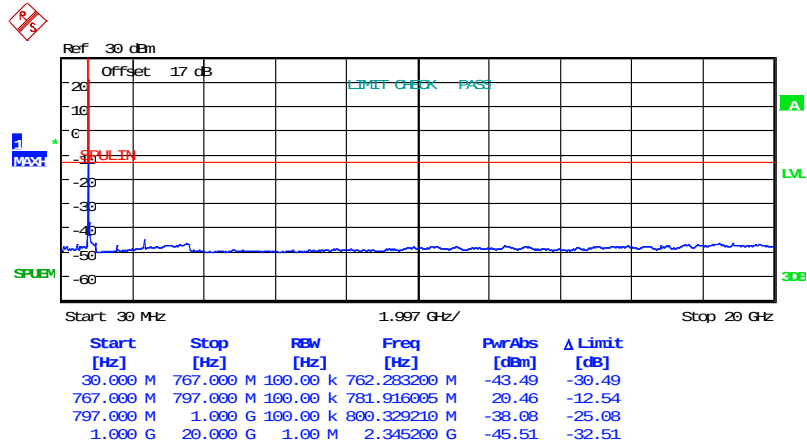
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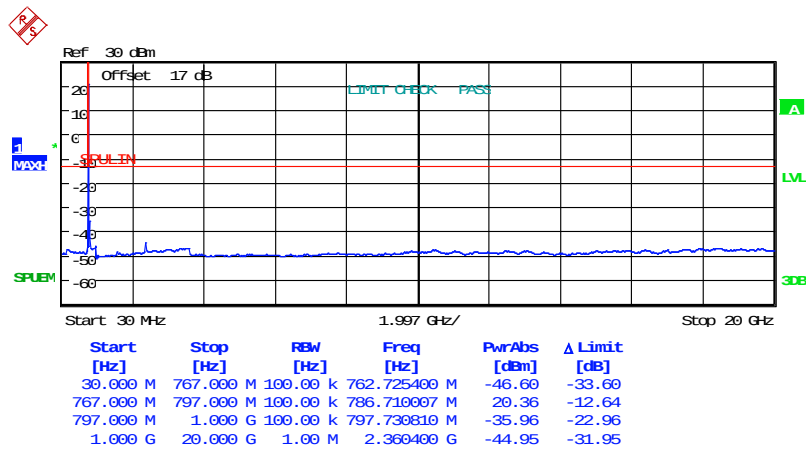
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

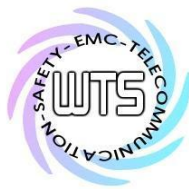
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Date: 10.OCT.2024 15:32:14



Date: 10.OCT.2024 15:34:31



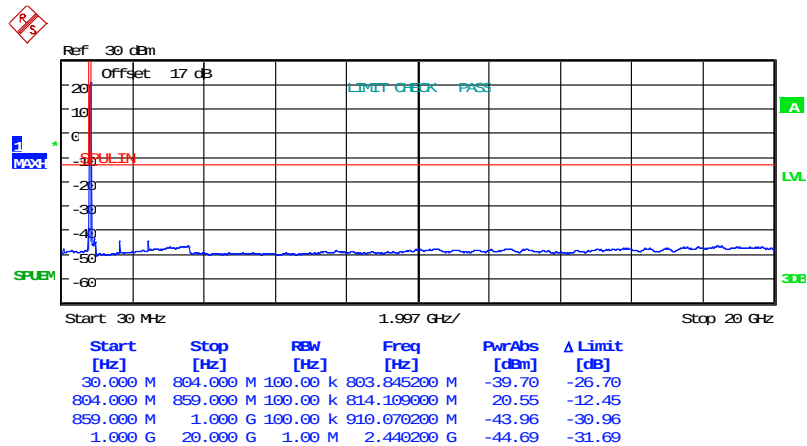
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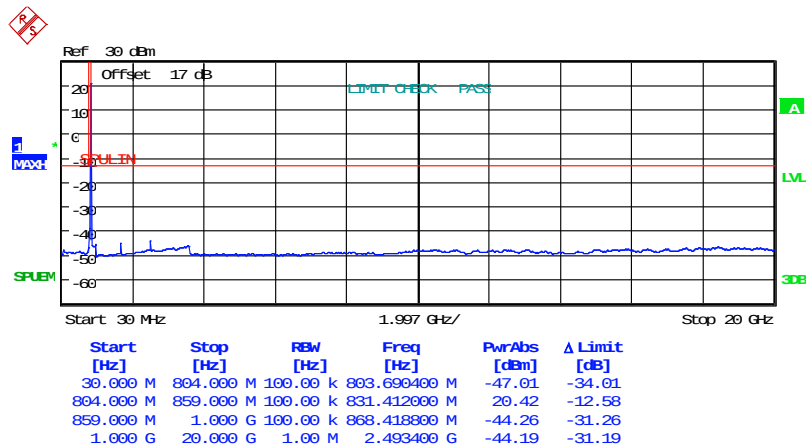
Band 26

5 MHz

QPSK



Date: 10.OCT.2024 15:37:47

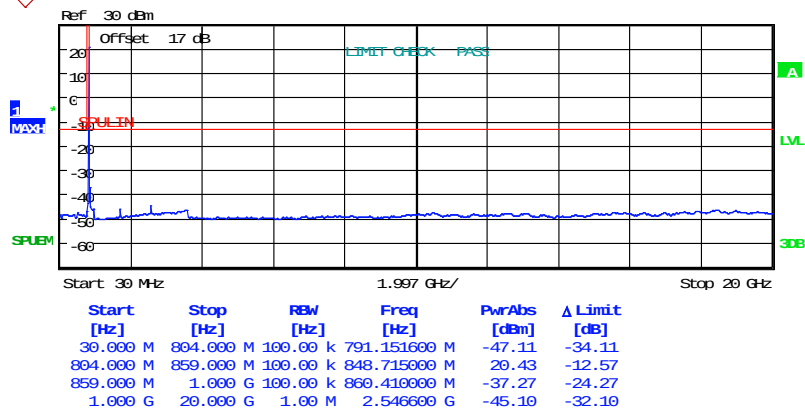


Date: 10.OCT.2024 15:36:28



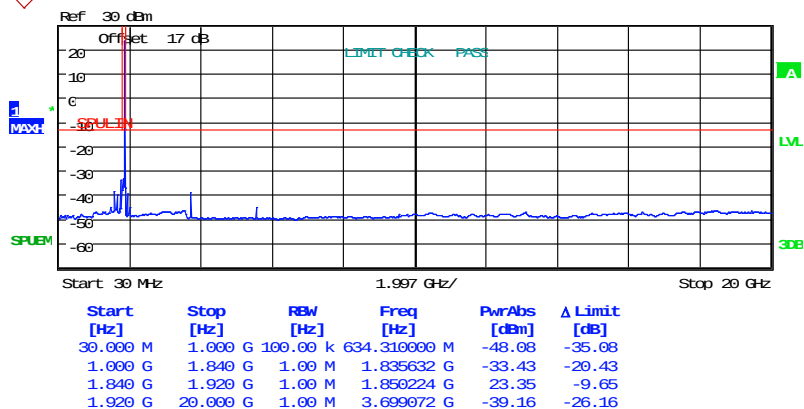
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

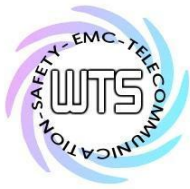


Date: 10.OCT.2024 15:38:50

Cat M1
Band 2
1.4 MHz
QPSK
1RB

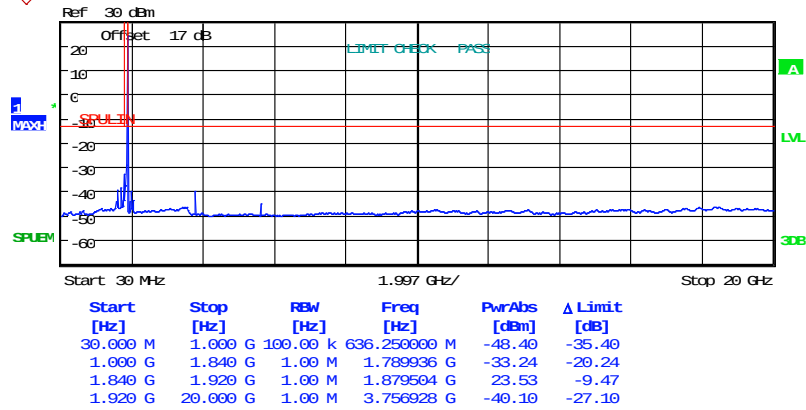


Date: 8.OCT.2024 21:22:46

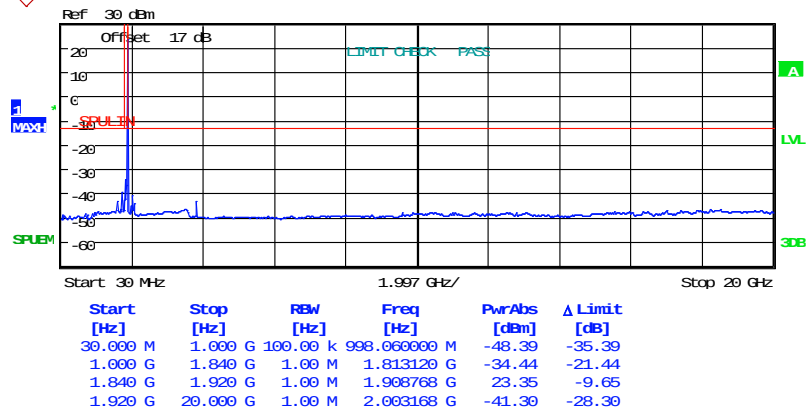


Registration number: W6M22409-23713-C-247

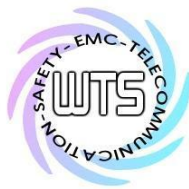
FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 21:20:43



Date: 8.OCT.2024 21:23:48



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

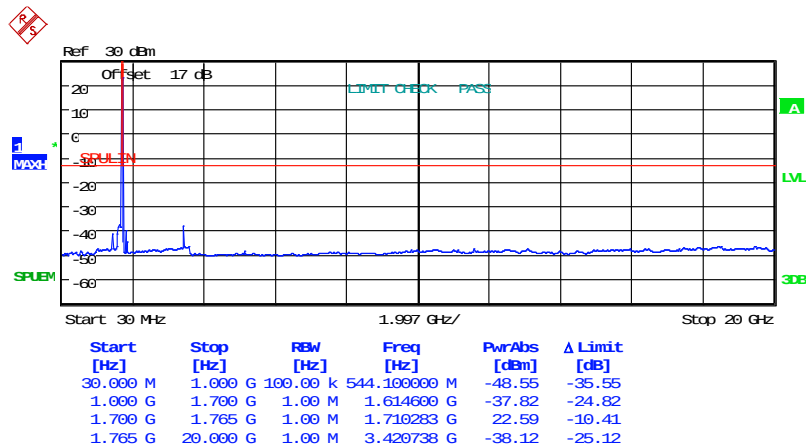
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Band 4

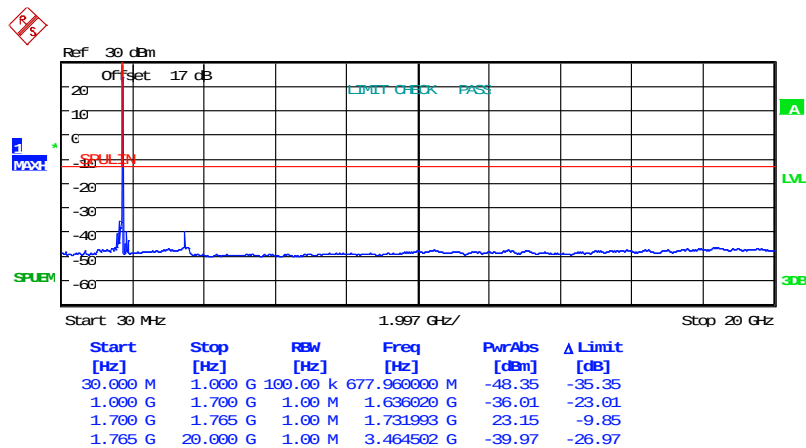
1.4 MHz

QPSK

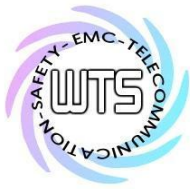
1RB



Date: 8.OCT.2024 21:17:32

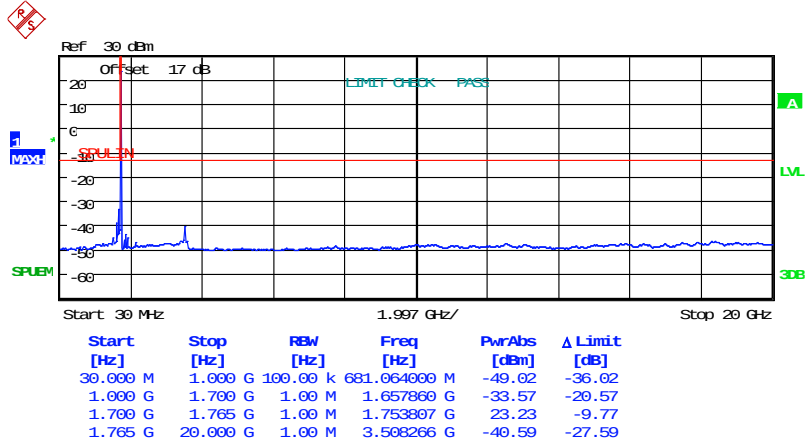


Date: 8.OCT.2024 21:15:58



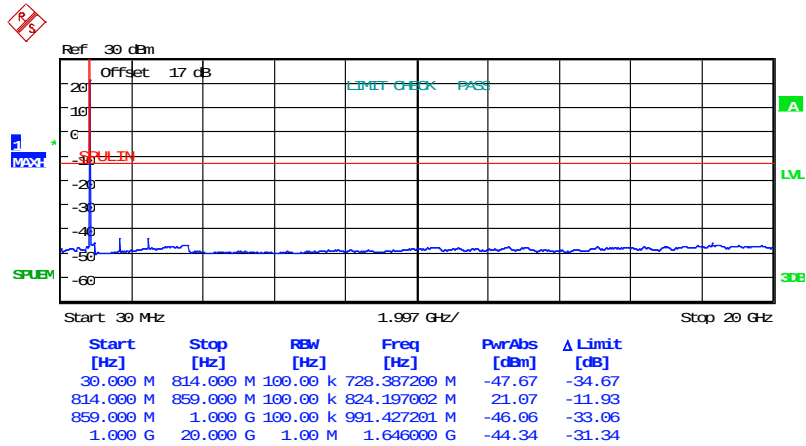
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 21:18:37

Band 5
1.4 MHz
QPSK
1RB



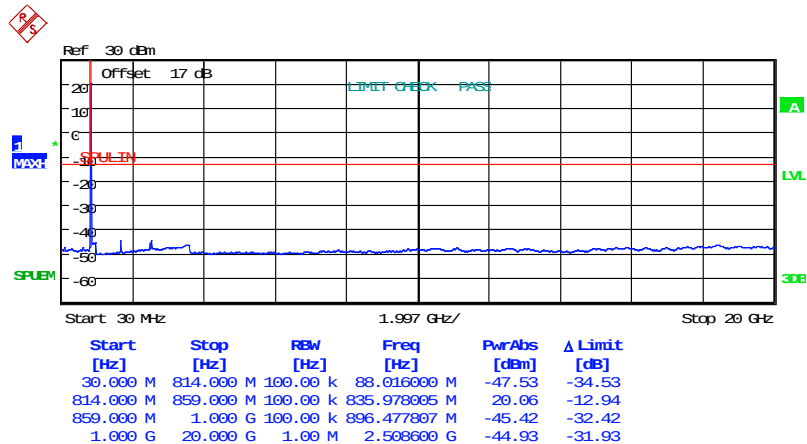
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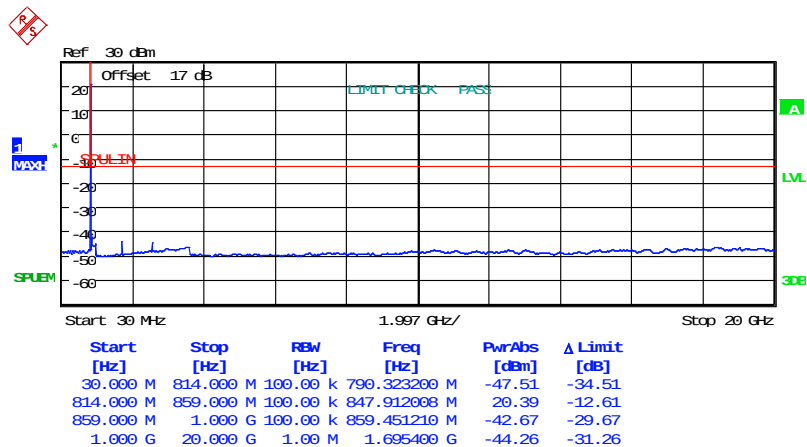
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 21:09:59



Date: 8.OCT.2024 21:13:16



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

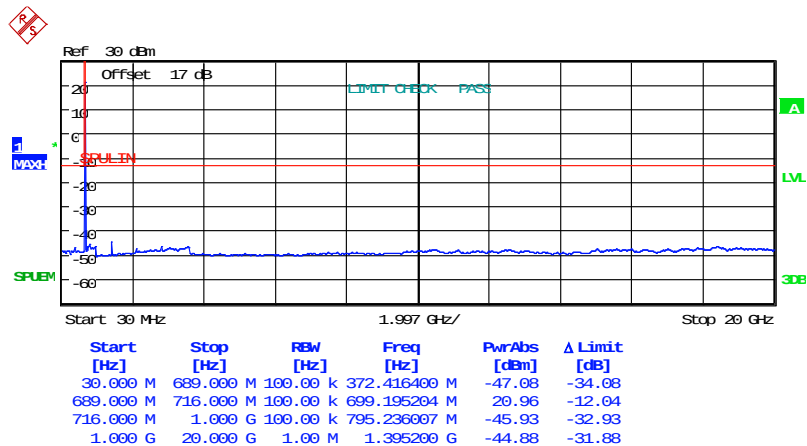
FCC ID: 2BAJFSN-EB01

Band 12

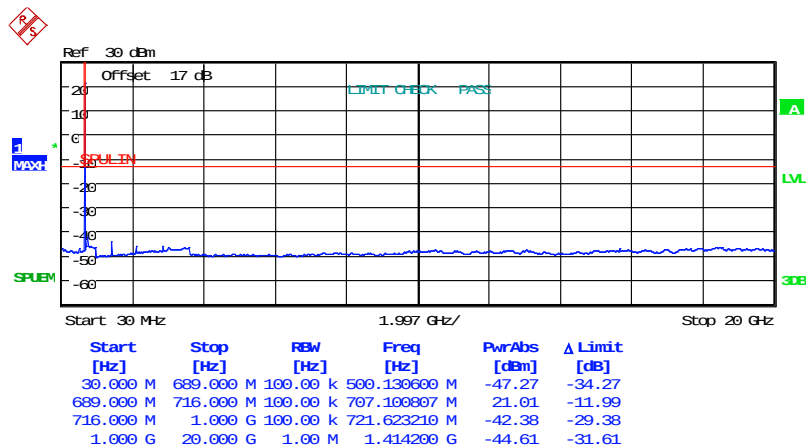
1.4 MHz

QPSK

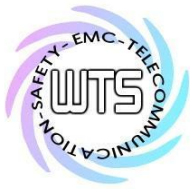
1RB



Date: 8.OCT.2024 21:06:27

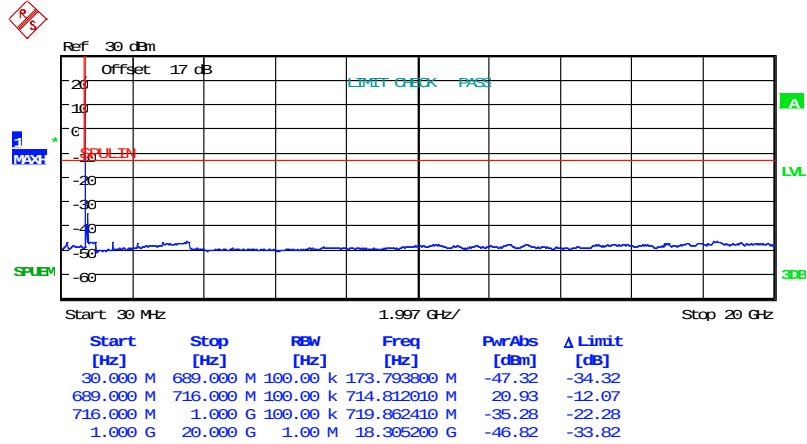


Date: 8.OCT.2024 21:05:15



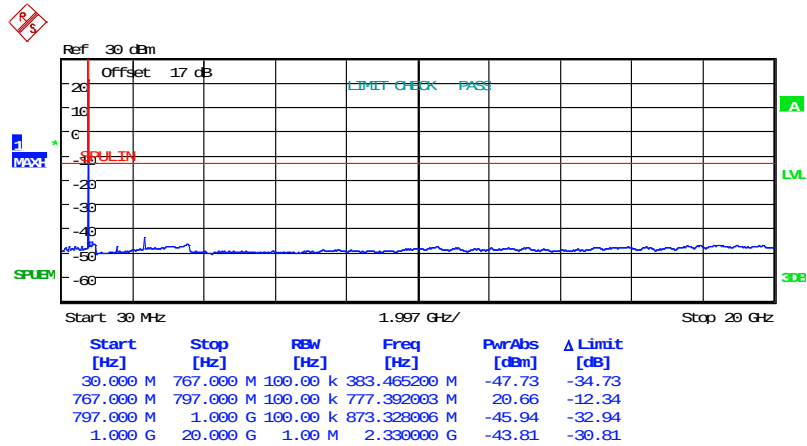
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 21:07:26

Band 13
5 MHz
QPSK
1RB



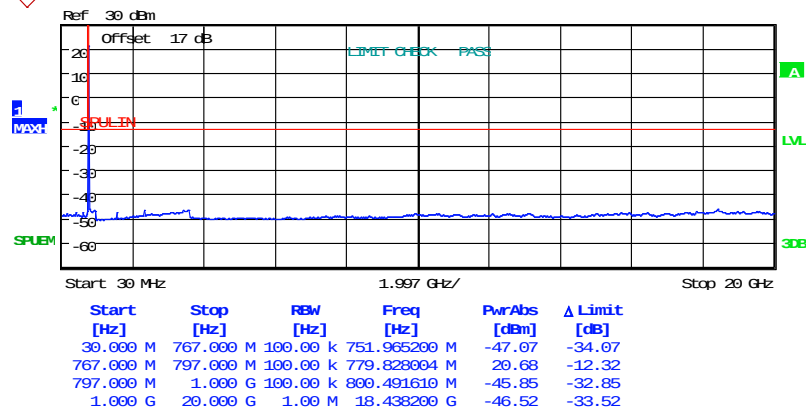
Date: 8.OCT.2024 21:00:16



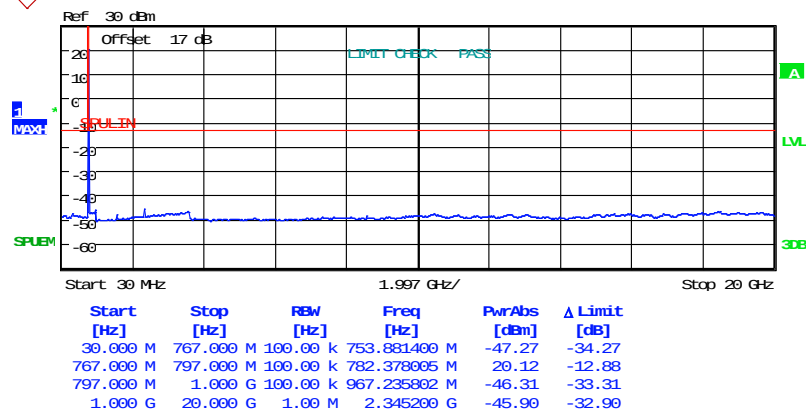
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

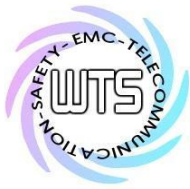
FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 20:58:56



Date: 8.OCT.2024 21:01:33



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23713-C-247

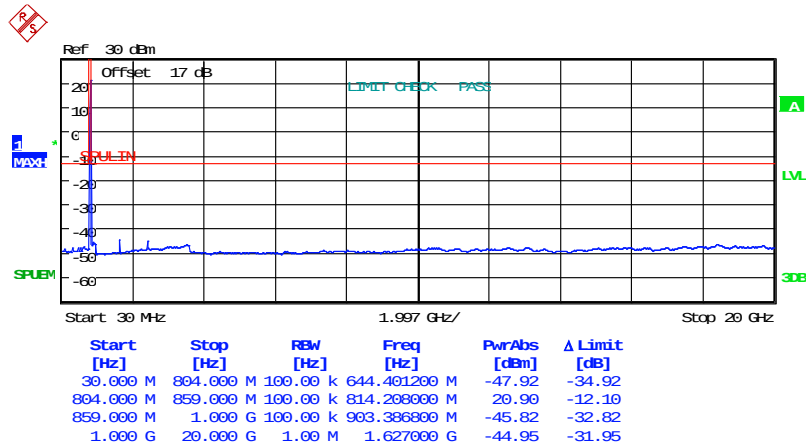
FCC ID: 2BAJFSN-EB01

Band 26

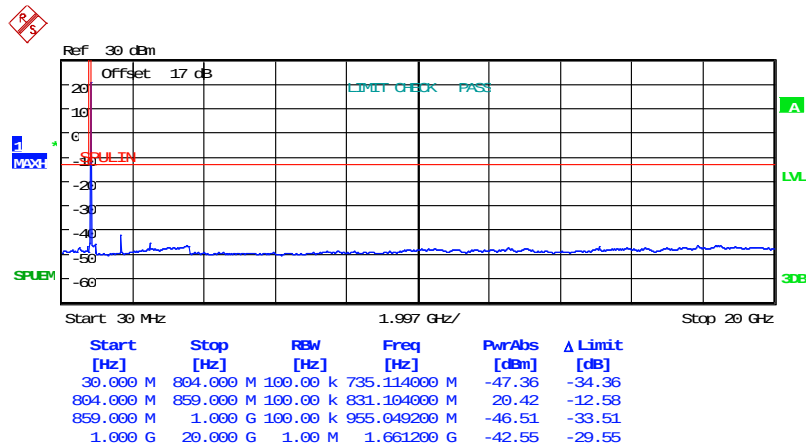
1.4 MHz

QPSK

1RB



Date: 8.OCT.2024 20:38:13

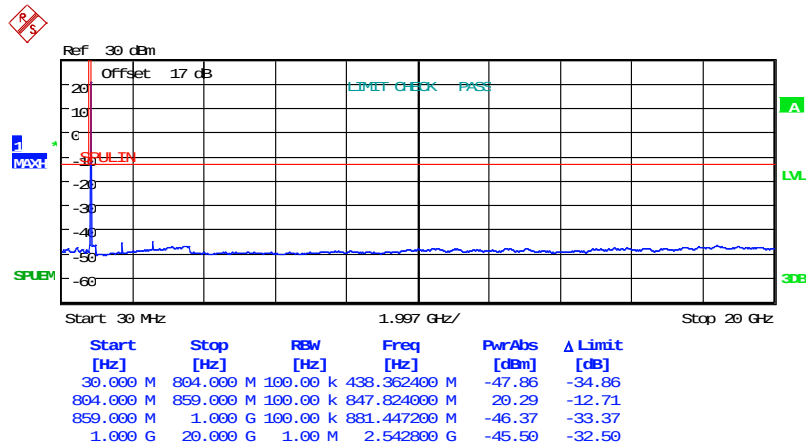


Date: 8.OCT.2024 20:36:34



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 8.OCT.2024 20:40:06

7.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

7.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917, §24.238, §27.53 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

8 Field Strength of Spurious Radiation

8.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

8.2 Test Results

The measurements of the spurious emission are at the upper, center and lower channel.

Model: SN-EB01

Date:

Mode: --

Temperature: -- °C Engineer: --

Polarization: Horizontal

Humidity: -- %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

- 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. **All not in the table noted test results are more than 20 dB below the relevant limits.**
 5. **See attached diagrams in appendix.**

8.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

8.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917, § 24.238, § 27.53 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L = P - A = -13 \text{ dBm}$



Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

8.5 Test result of band edge emissions

Test date: October 07, 2024- October 15, 2024

Temperature: 24.4 °C

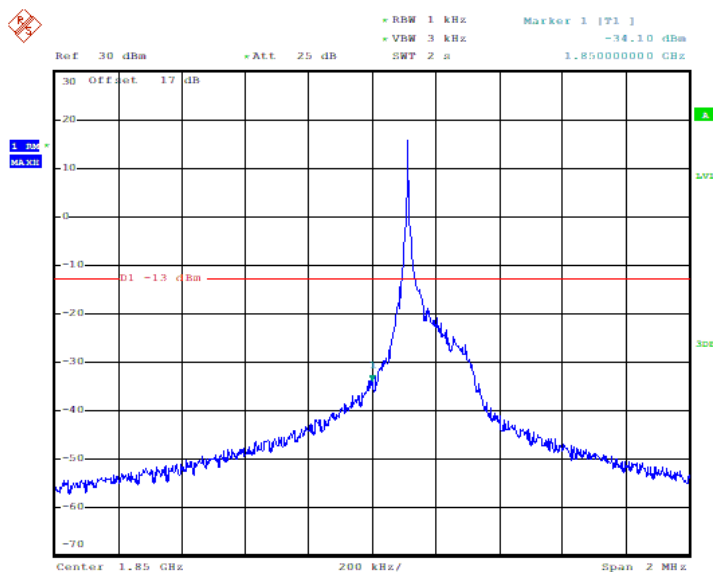
Humidity: 53.0 %

Tester: Rick

NB-IOT

Band 2

5 MHz

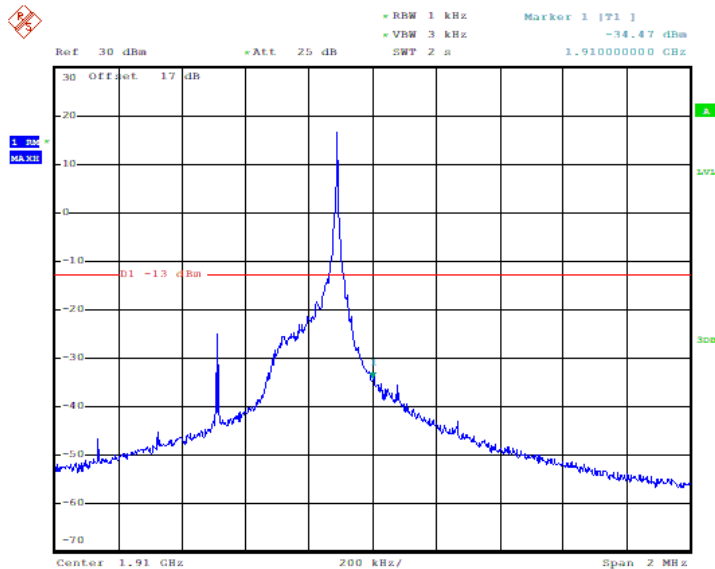


Date: 9.OCT.2024 16:55:19

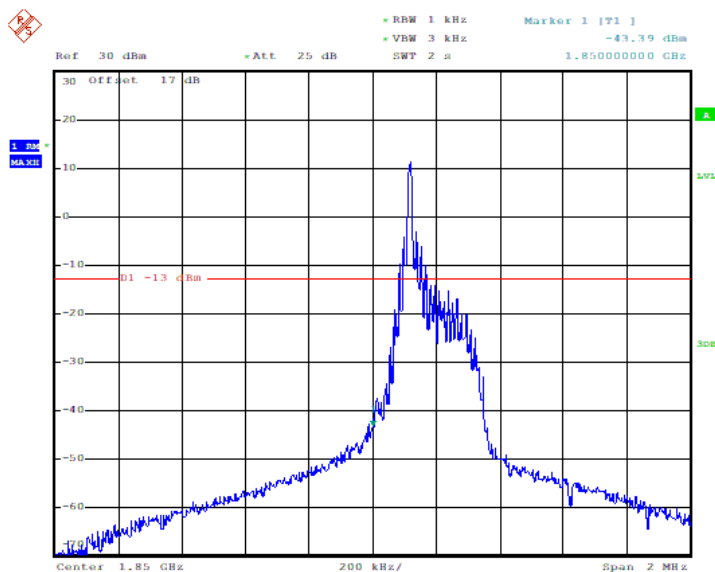


Registration number: W6M22409-23713-C-247

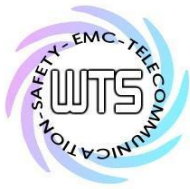
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 16:44:11

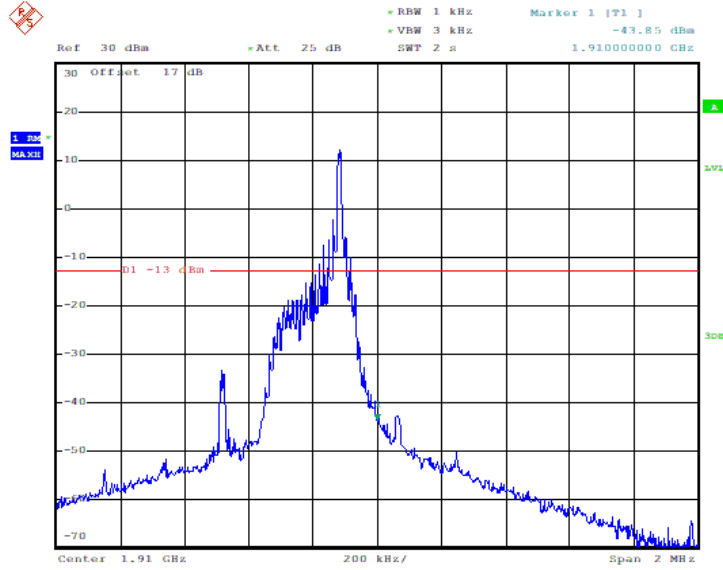


Date: 9.OCT.2024 16:54:03

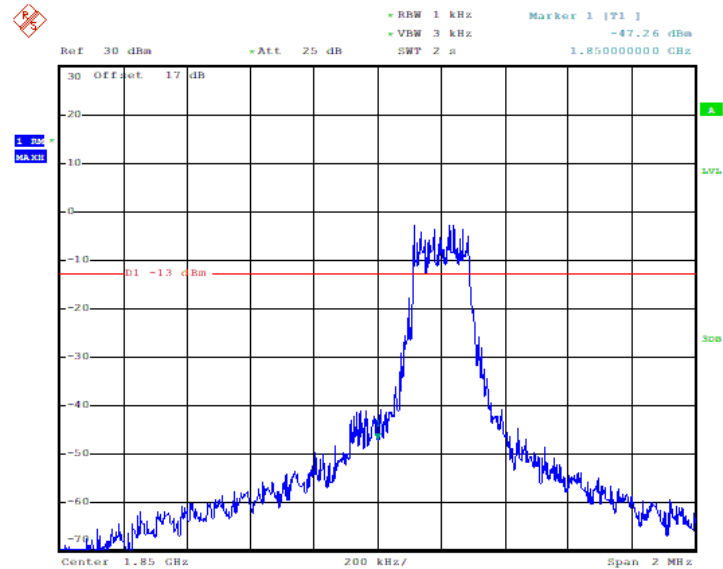


Registration number: W6M22409-23713-C-247

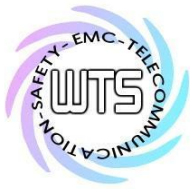
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 16:46:42

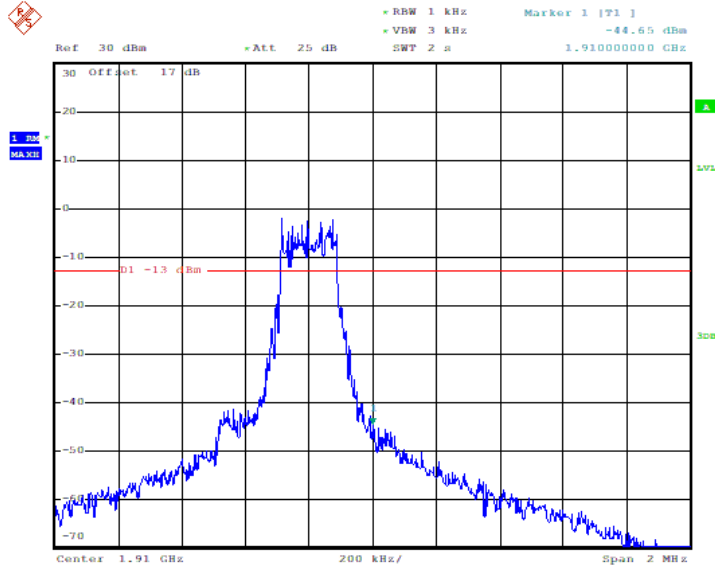


Date: 9.OCT.2024 16:52:55



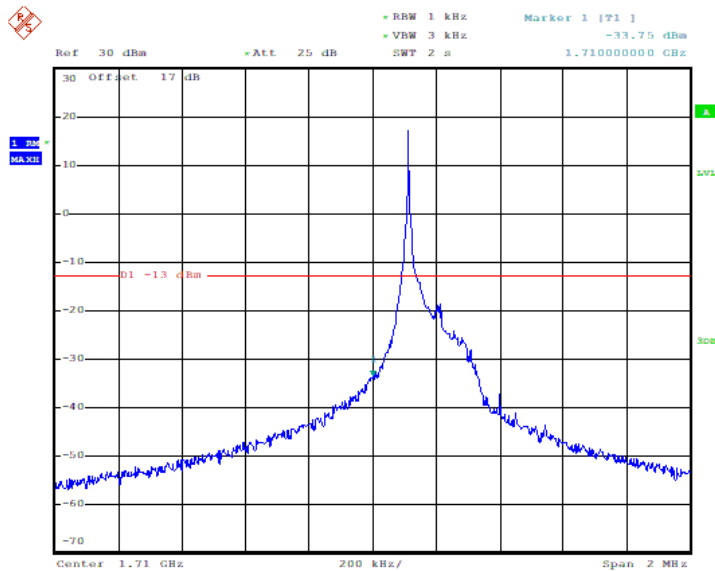
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

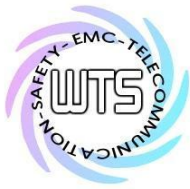


Date: 9.OCT.2024 16:48:19

Band 4
5 MHz

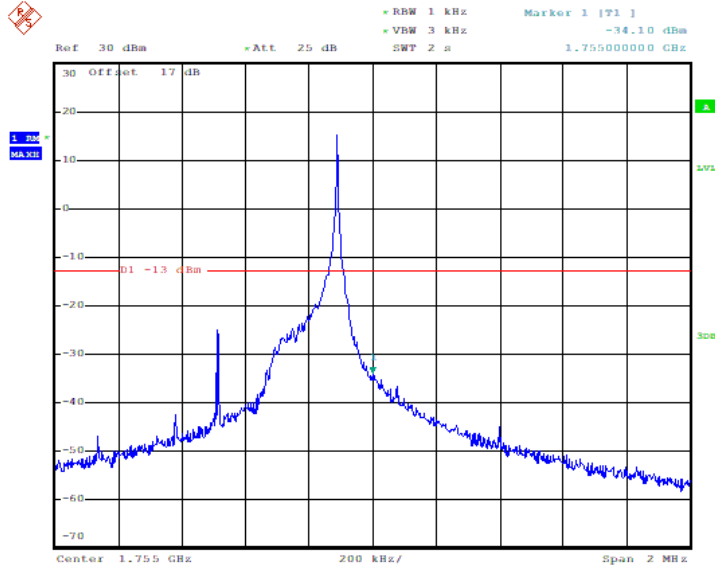


Date: 9.OCT.2024 16:58:56

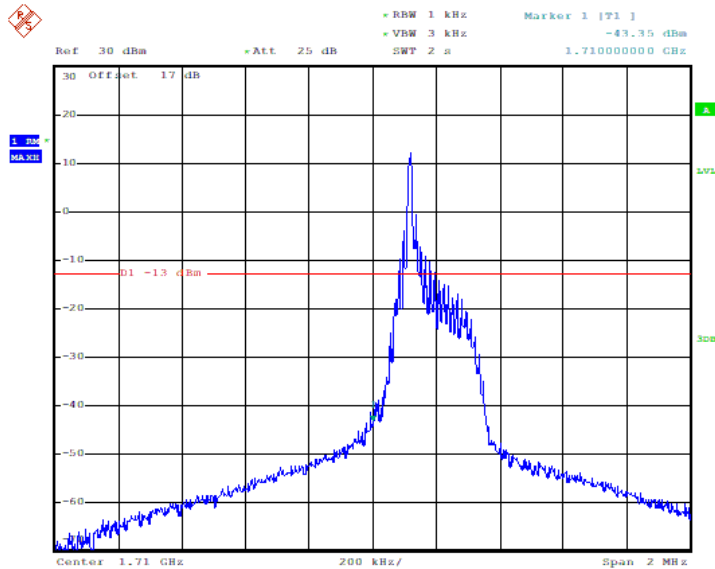


Registration number: W6M22409-23713-C-247

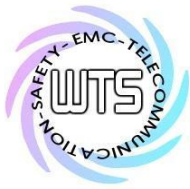
FCC ID: 2BAJFSN-EB01



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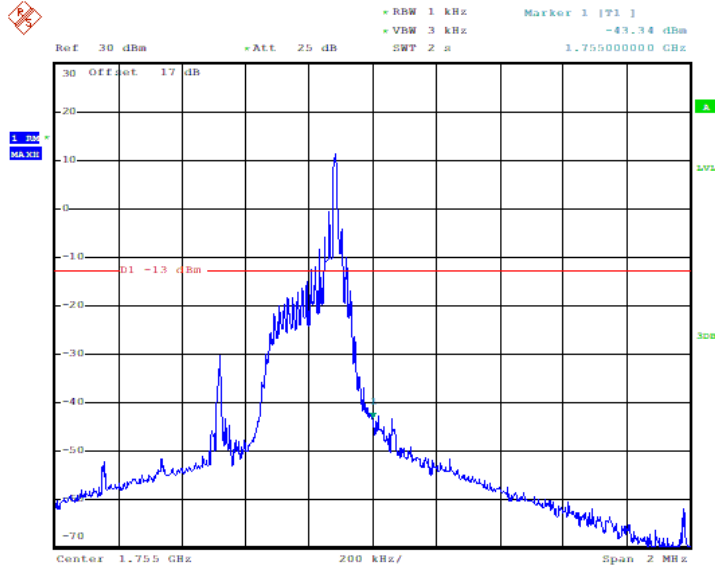


Date: 9.OCT.2024 17:00:27

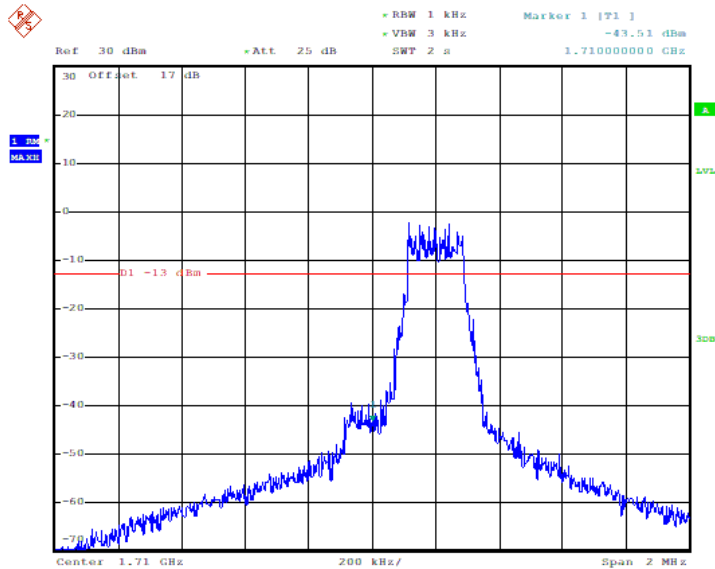


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 17:05:35

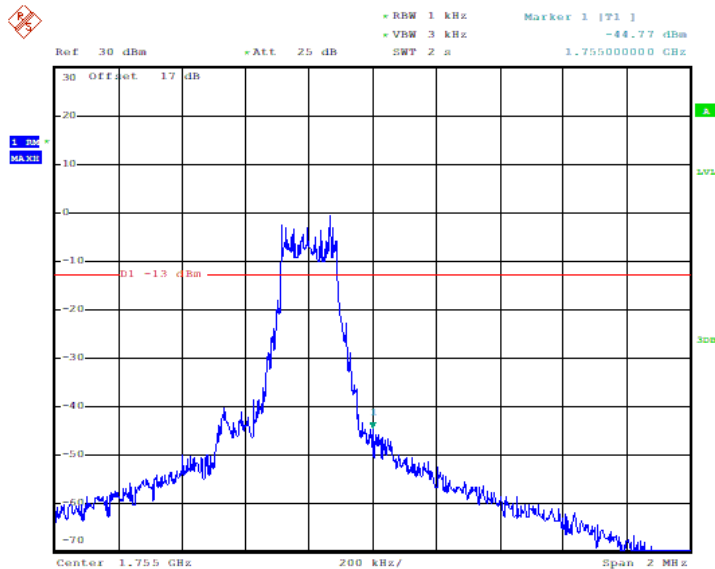


Date: 9.OCT.2024 17:02:03



Registration number: W6M22409-23713-C-247

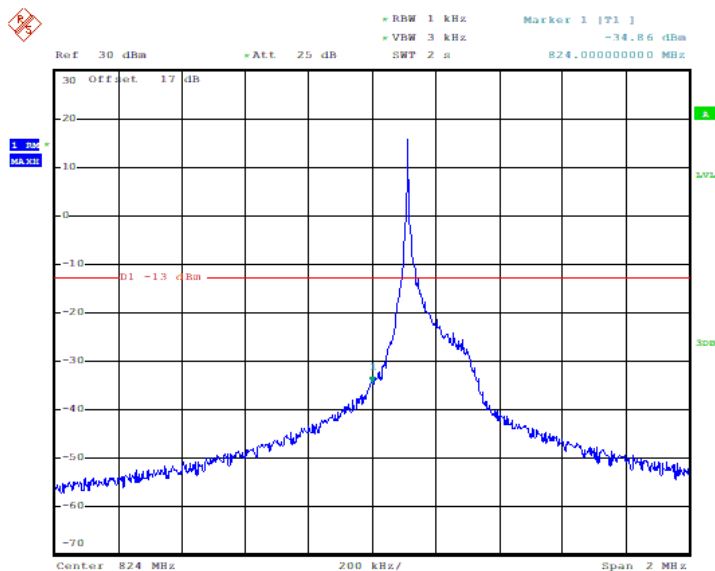
FCC ID: 2BAJFSN-EB01



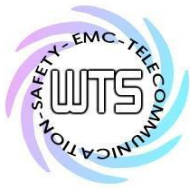
Date: 9.OCT.2024 17:04:01

Band 5

5 MHz

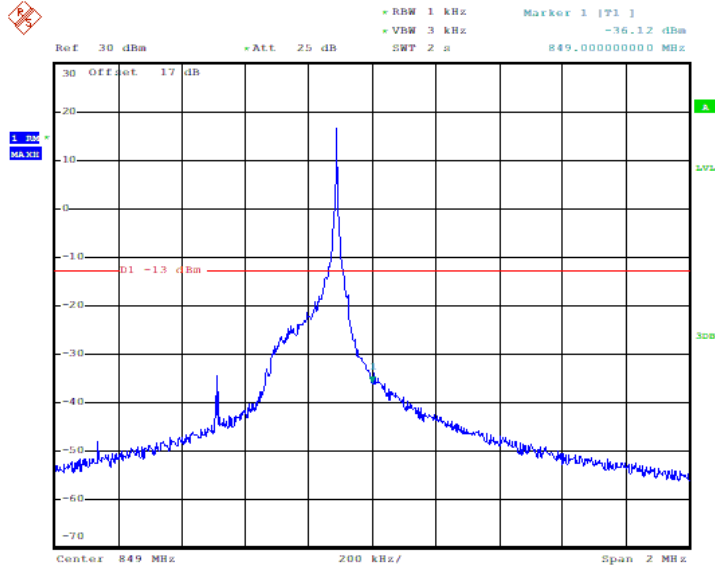


Date: 9.OCT.2024 17:11:05

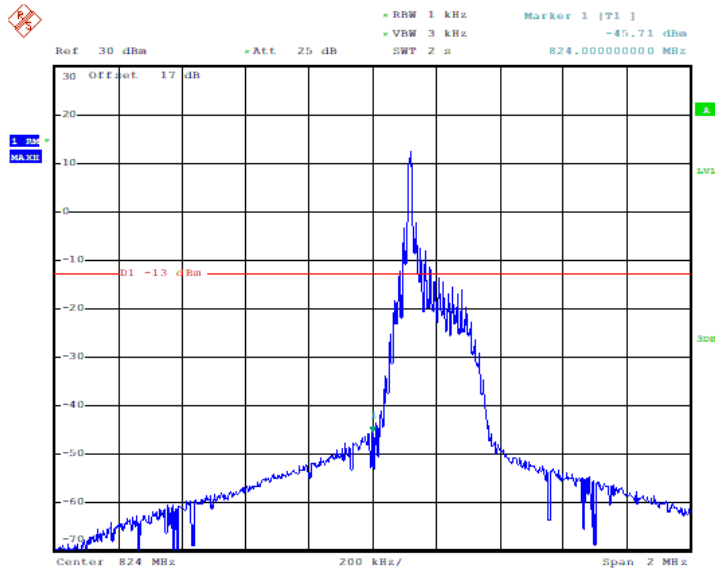


Registration number: W6M22409-23713-C-247

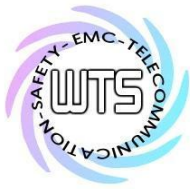
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 17:21:08

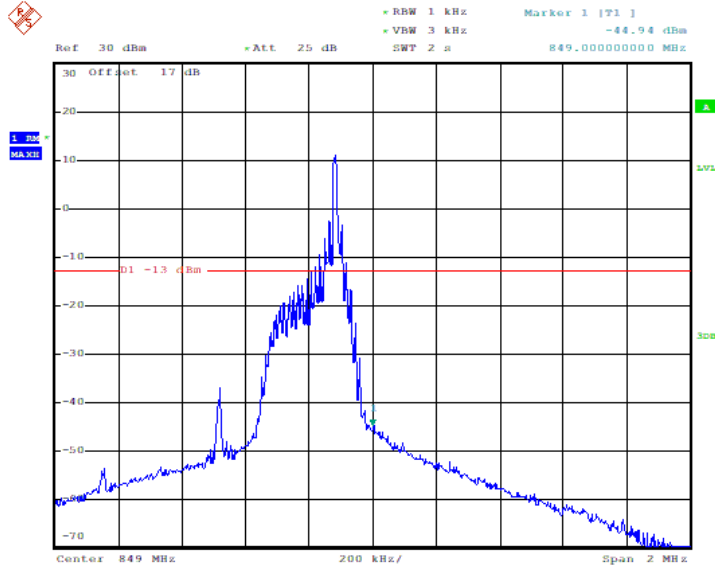


Date: 9.OCT.2024 17:12:19

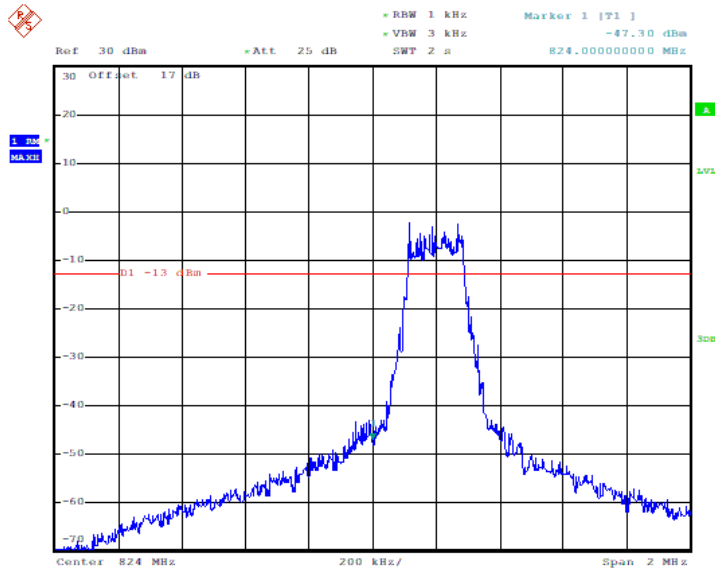


Registration number: W6M22409-23713-C-247

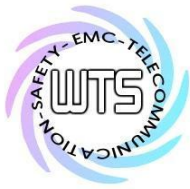
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 17:19:52

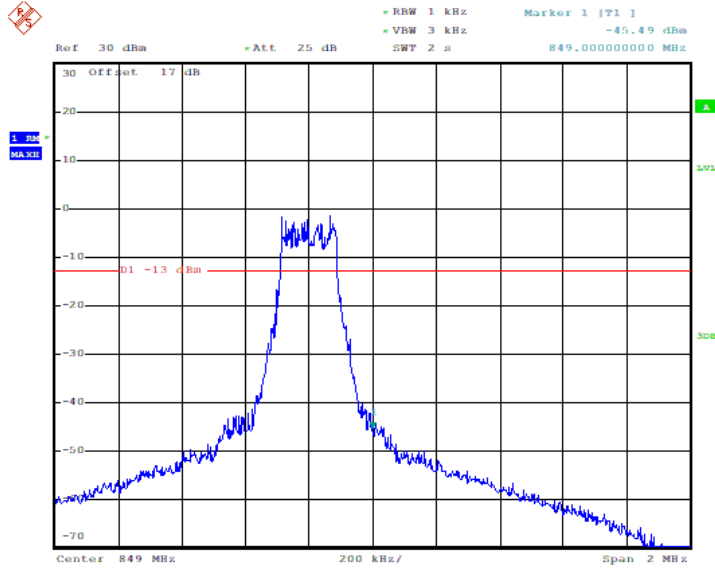


Date: 9.OCT.2024 17:13:50



Registration number: W6M22409-23713-C-247

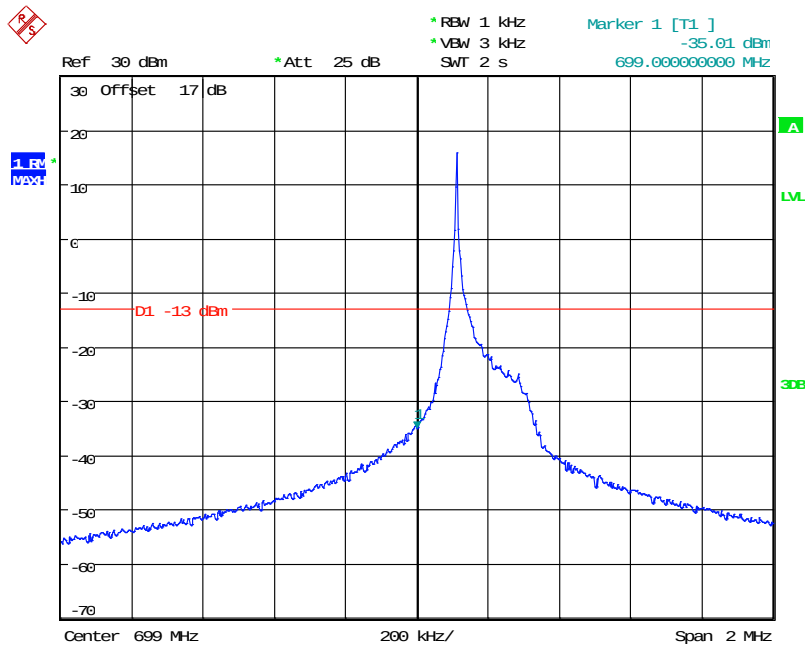
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 17:18:34

Band 12

5 MHz

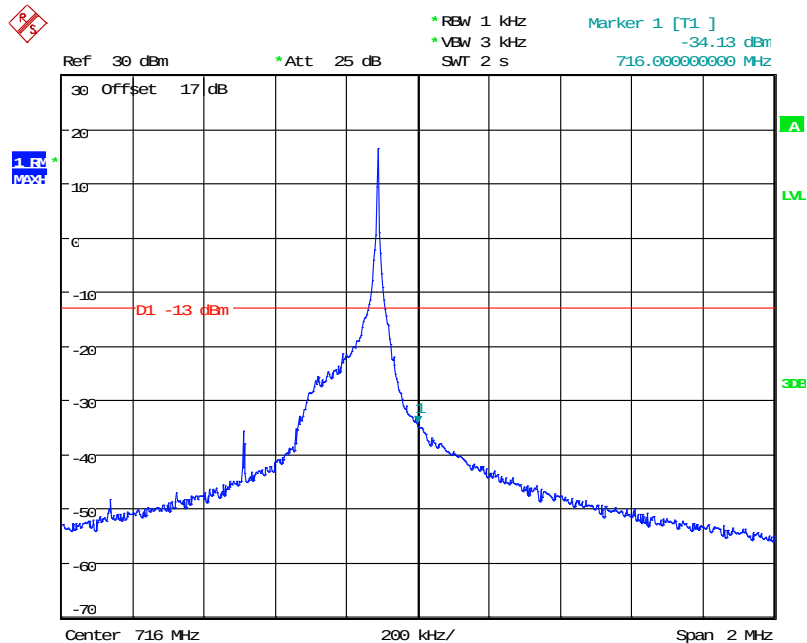


Date: 9.OCT.2024 17:54:24

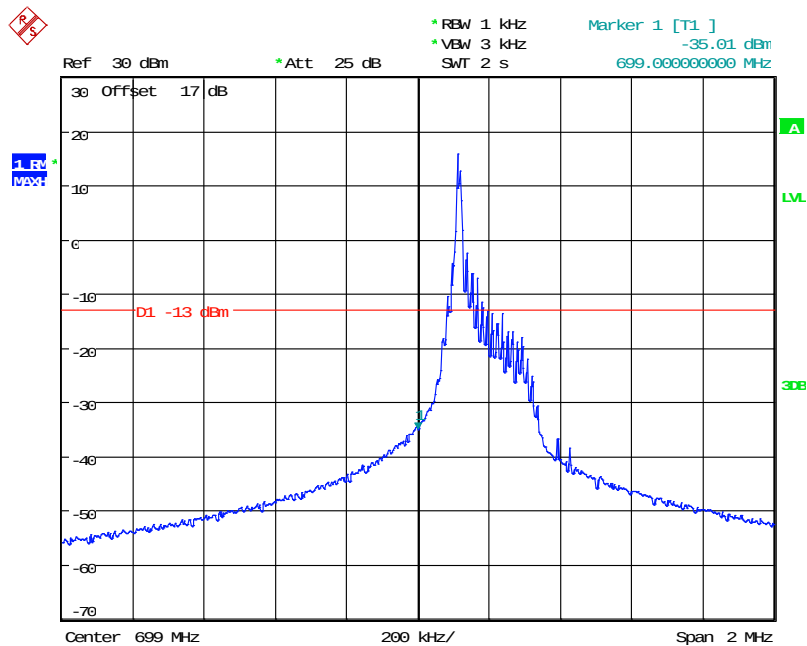


Registration number: W6M22409-23713-C-247

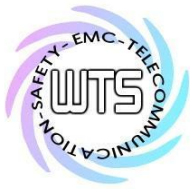
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 18:03:30

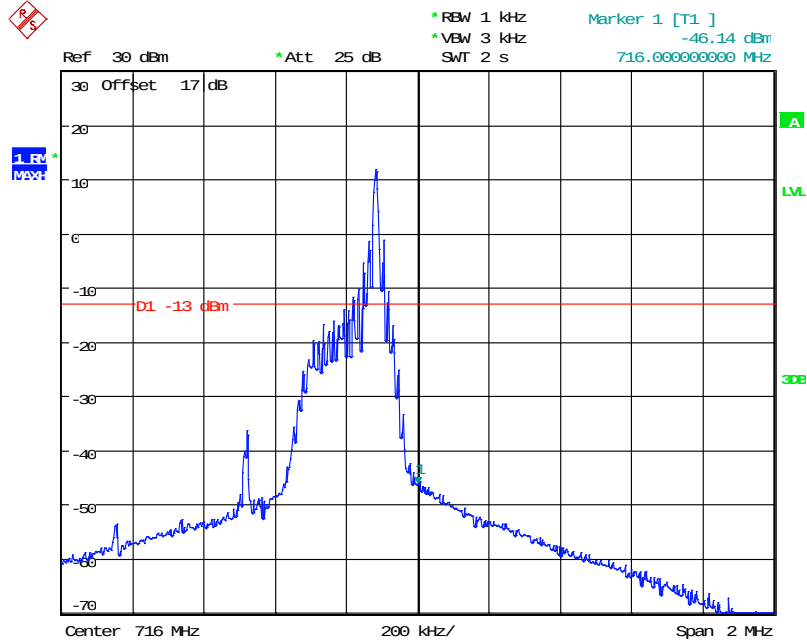


Date: 9.OCT.2024 17:56:16

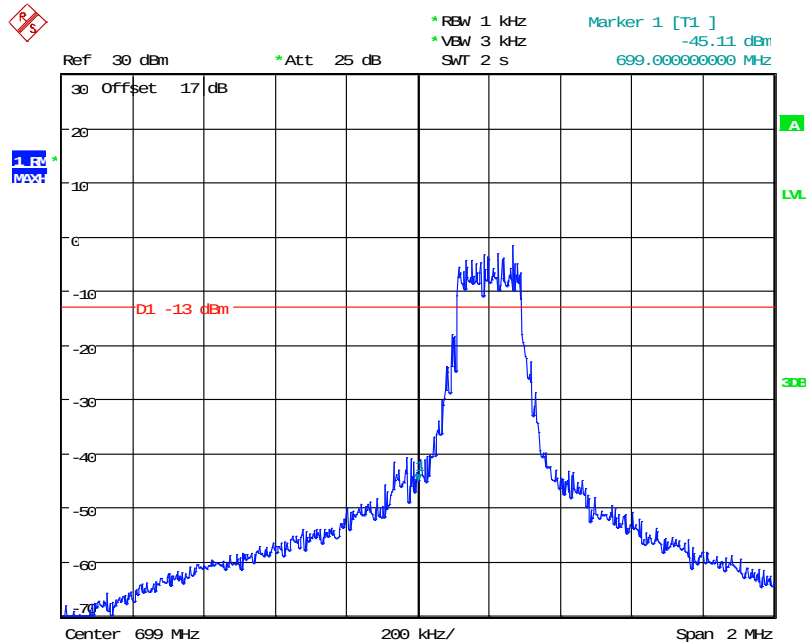


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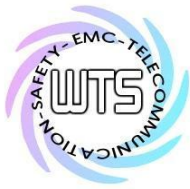
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Date: 9.OCT.2024 18:01:36

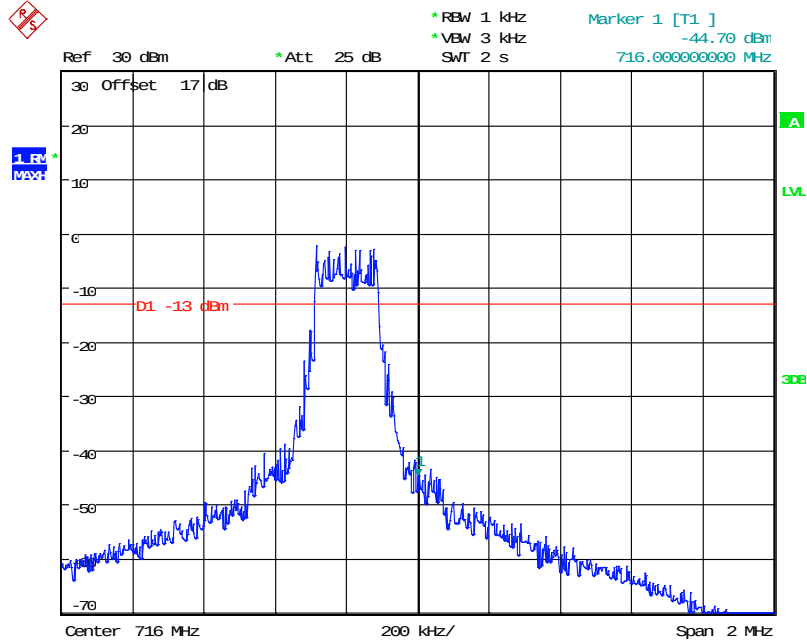


Date: 9.OCT.2024 17:58:07



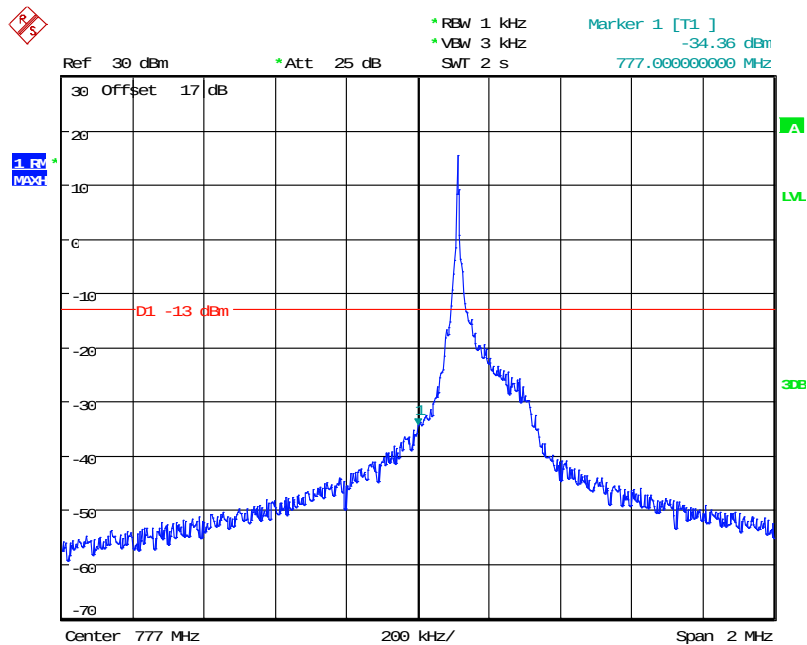
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

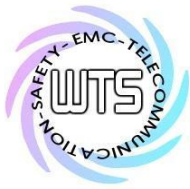


Date: 9.OCT.2024 18:00:15

Band 13
5 MHz

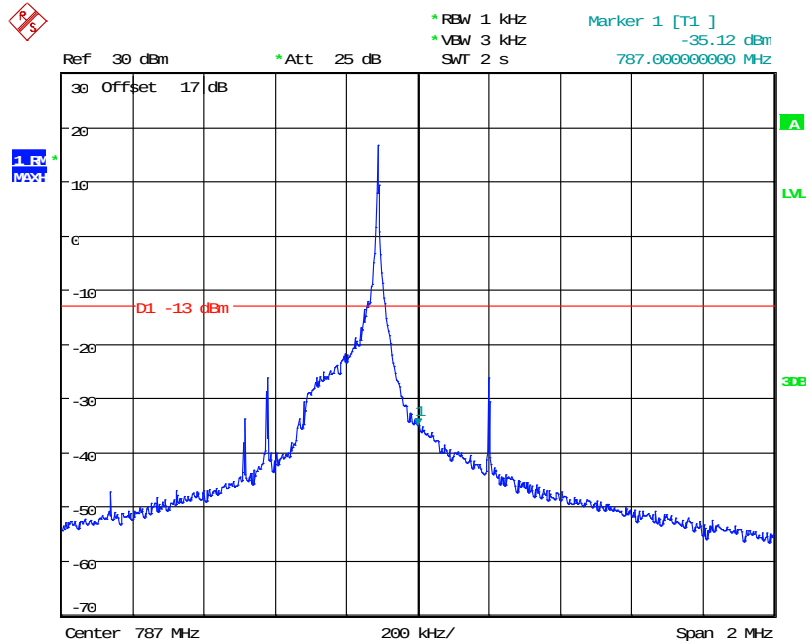


Date: 9.OCT.2024 20:44:32

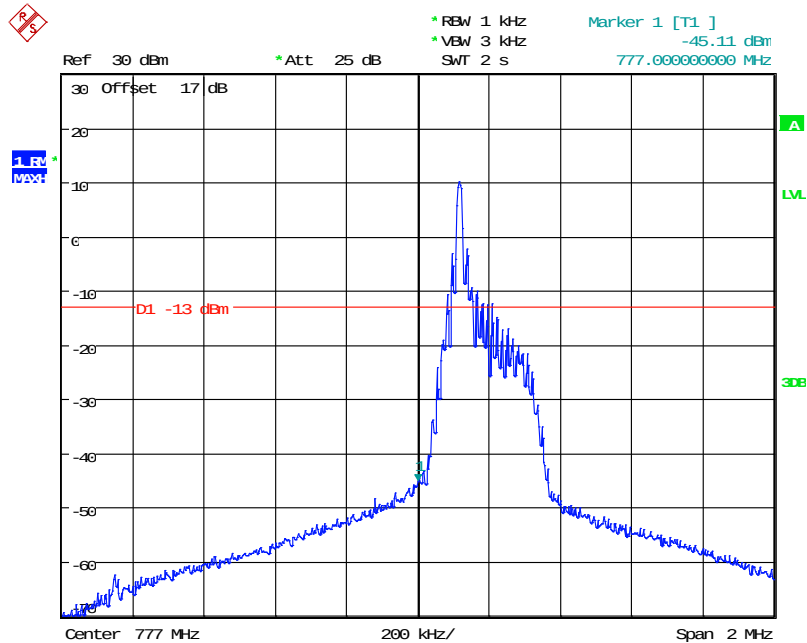


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 18:09:48

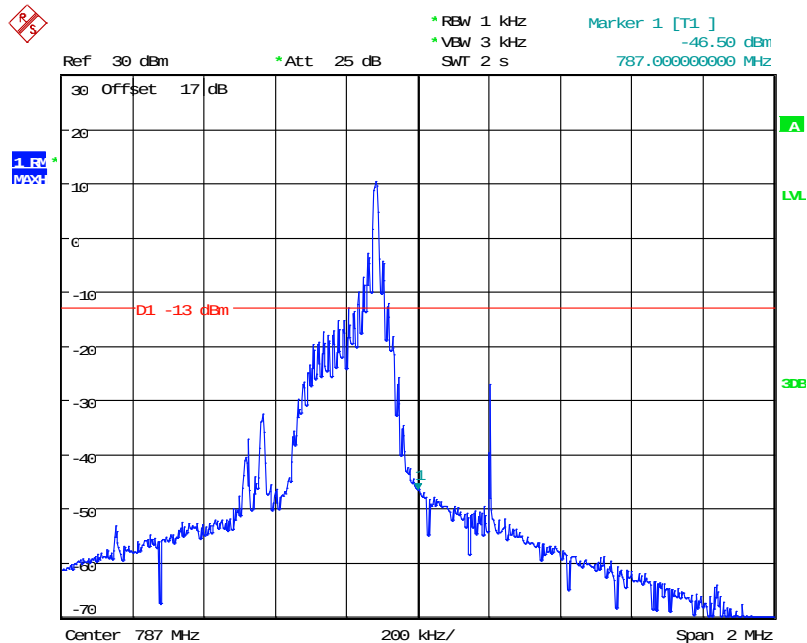


Date: 9.OCT.2024 20:43:49

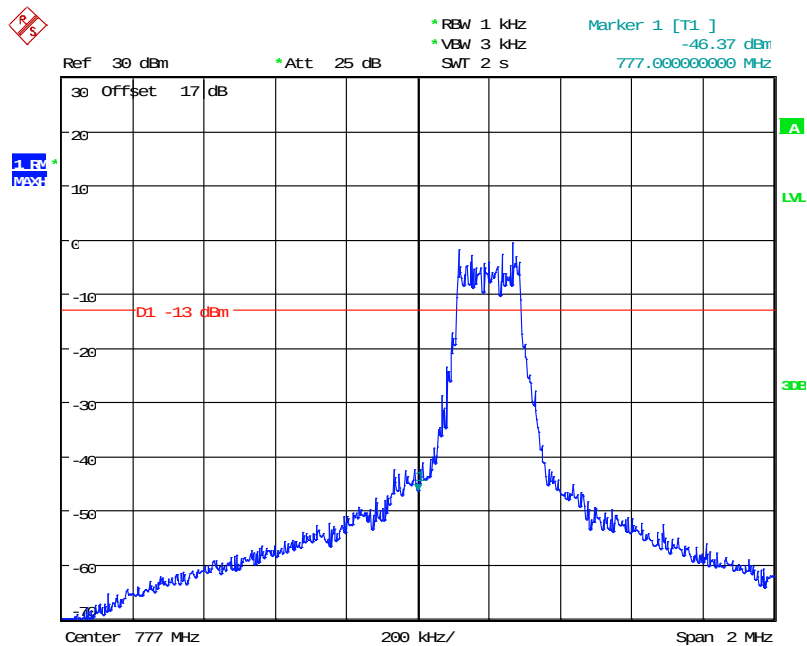


Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 19:40:01

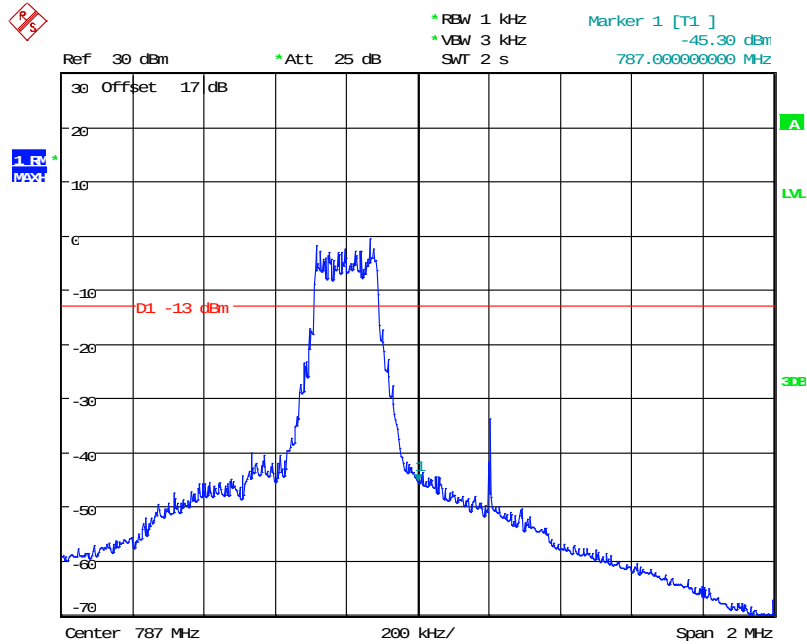


Date: 9.OCT.2024 20:42:47



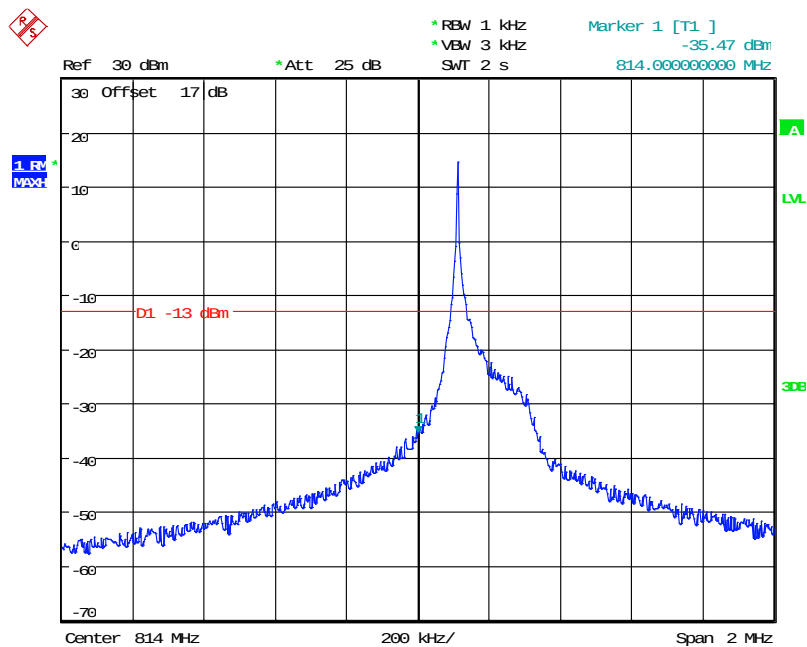
Registration number: W6M22409-23713-C-247

FCC ID: 2BAJFSN-EB01

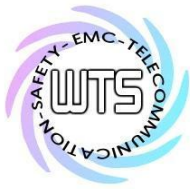


Date: 9.OCT.2024 19:39:00

Band 26
5 MHz

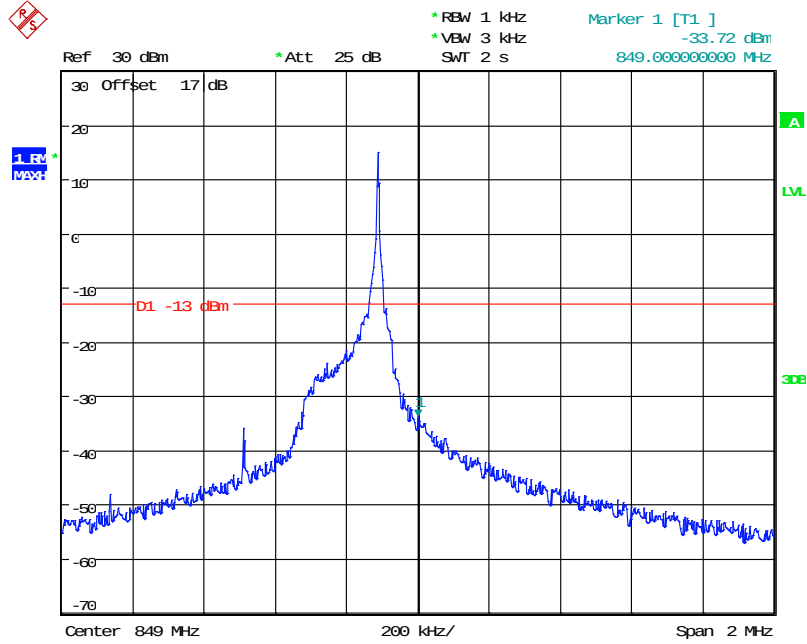


Date: 9.OCT.2024 19:50:02

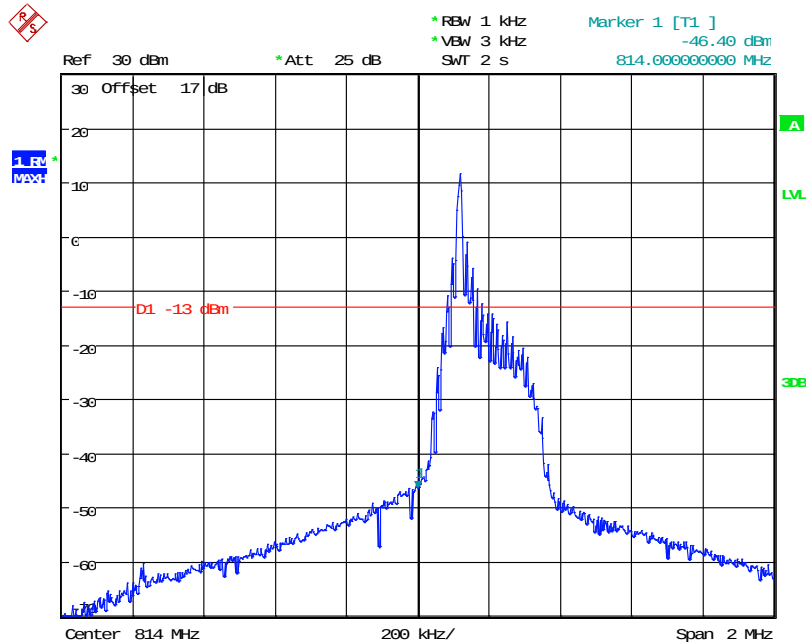


Registration number: W6M22409-23713-C-247

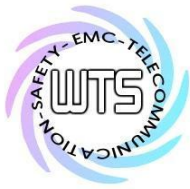
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 19:45:50

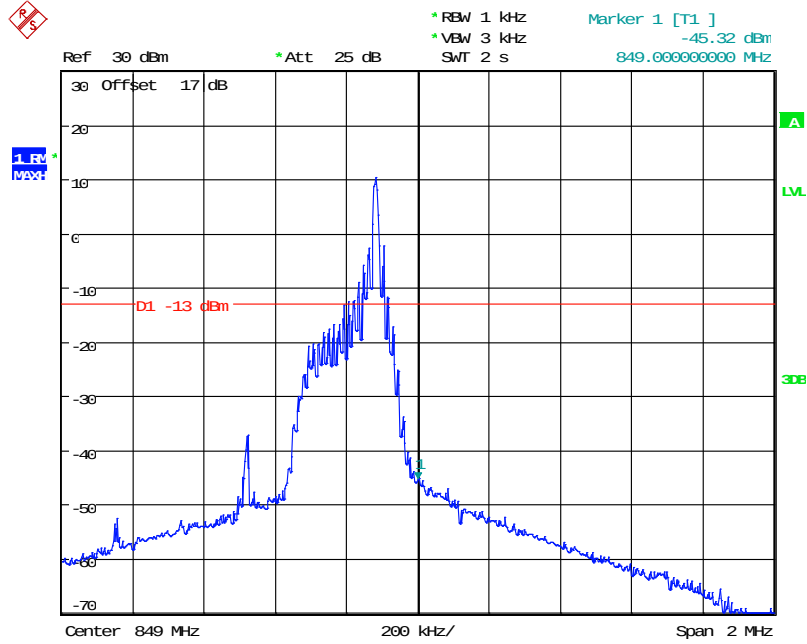


Date: 9.OCT.2024 19:49:10

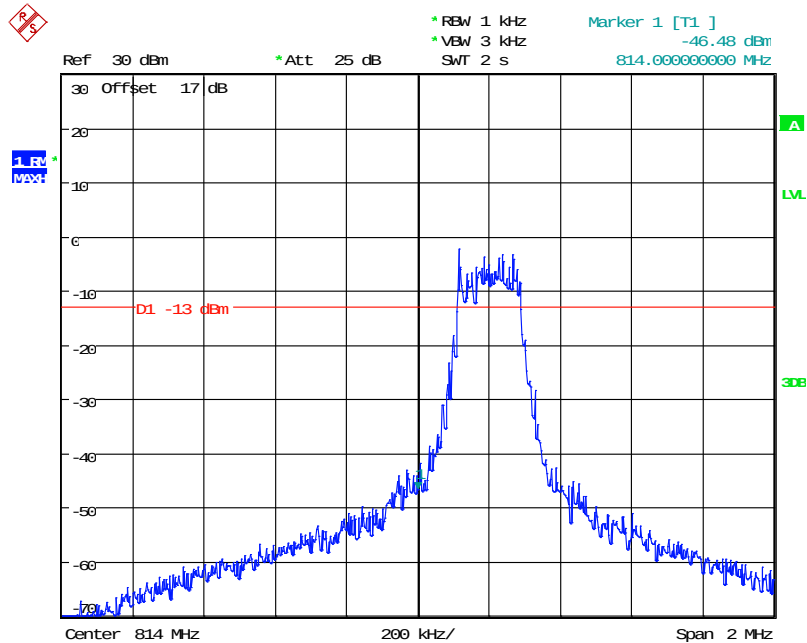


Registration number: W6M22409-23713-C-247

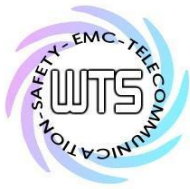
FCC ID: 2BAJFSN-EB01



Date: 9.OCT.2024 19:43:31

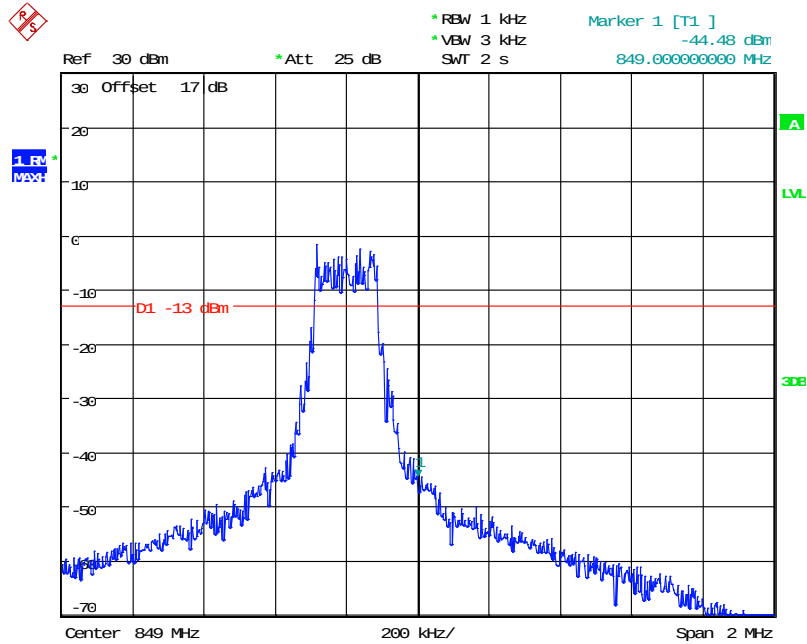


Date: 9.OCT.2024 19:51:10



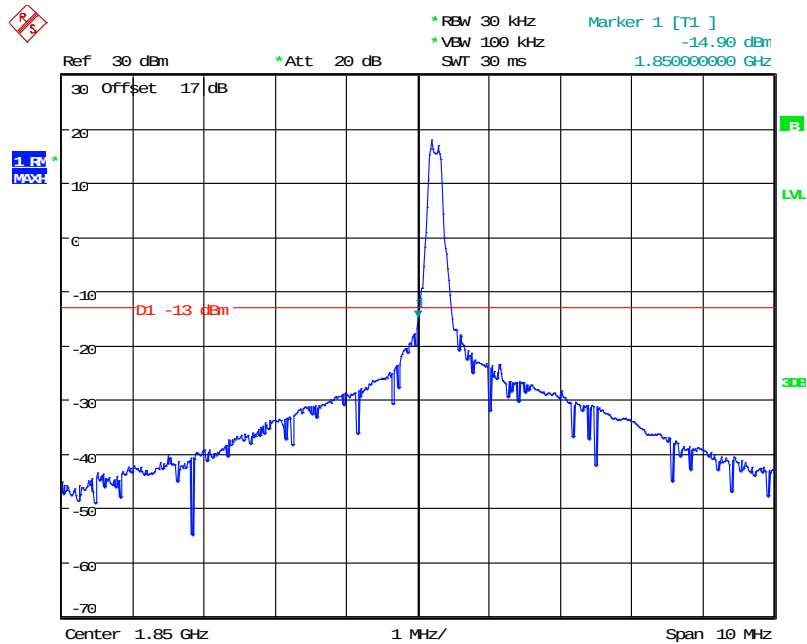
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FCC ID: 2BAJFSN-EB01

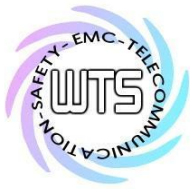


Date: 9.OCT.2024 19:44:53

Cat M1
Band 2
1.4 MHz
QPSK
1RB

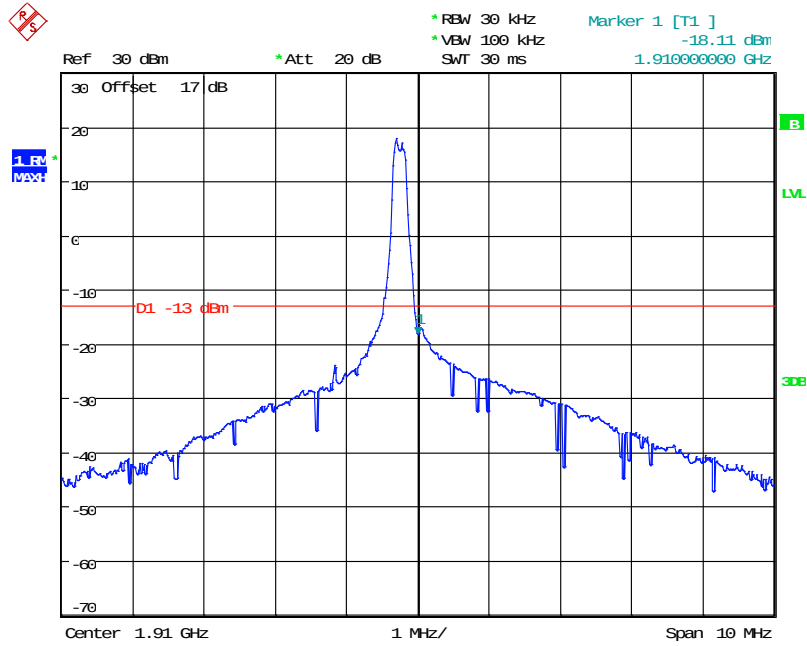


Date: 7.OCT.2024 20:41:10



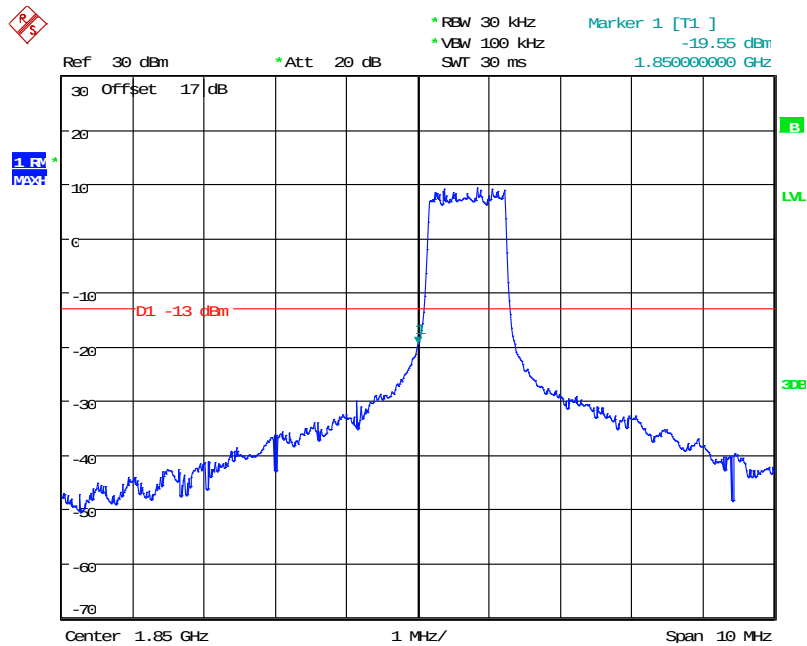
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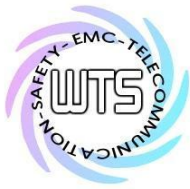


Date: 7.OCT.2024 20:53:11

FRB

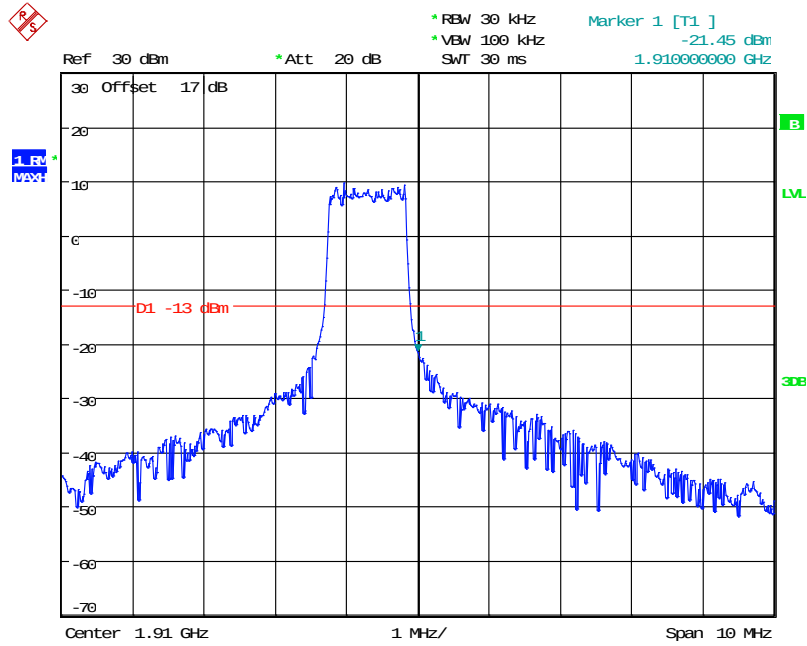


Date: 7.OCT.2024 20:44:49



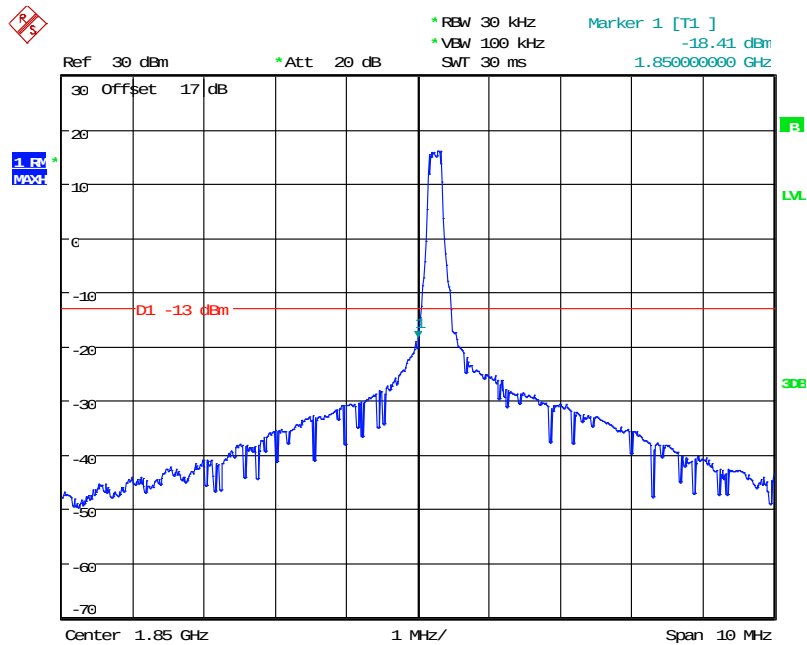
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FCC ID: 2BAJFSN-EB01



Date: 7.OCT.2024 20:47:30

16QAM
1RB



Date: 7.OCT.2024 20:42:12