TEST REPORT

No. I21Z62753-EMC01

for

Reliance Communications LLC

Orbic Tab10R 5G

Model Name: R10L5TR

FCC ID: 2ABGH-R10L5TR

with

Hardware Version: V1.1

Software Version: ORB10L5TR_v1.0.5_BVZ

Issued Date: 2022-02-10

Note:

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Revision	Description	Issue Date
Rev.0	1st edition	2022-01-19
Rev.1	Adding the EIRP calculate formula in P19	2022-02-10

Note: the latest revision of the test report supersedes all previous version.

CONTENTS

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#:24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

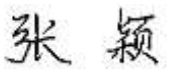
1.3. Testing Environment

Normal Temperature:	15-35℃
Relative Humidity:	20-75%

1.4. Project Data

Testing Start Date:	2022-01-06
Testing End Date:	2022-01-19

1.5. Signature



Zhang Ying

(Prepared this test report)

An Hui

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	Reliance Communications LLC
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2.2. Manufacturer Information

Company Name:	ZJY RIGHT SOURCE INDIA PRIVATE LIMITED
Address /Post:	MIDC industrial Area, Shiravane， Nerul,India
Contact:	Vivian
Email:	hpmware@zjynetsys.com
Telephone:	13632537142
Fax:	/

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Orbic Tab10R 5G
Model Name	R10L5TR
FCC ID	2ABGH-R10L5TR
Antenna	Embedded
Output power	25.39dBm maximum EIRP measured for n261
Extreme vol. Limits	3.6VDC to 4.4VDC (nominal: 4.0VDC)
Extreme temp. Tolerance	-10°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

The EUT supports n260 and n261 bands, 50MHz and 100MHz bandwidth. For uplink modulation, in CP-OFDM, the EUT supports QPSK, 16QAM, 64QAM, and in DFT-s-OFDM, the EUT supports QPSK, 16QAM, 64QAM.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI / Serial Number	HW Version	SW Version
UT03a	356489860001945	V1.1	ORB10L5TR_v1.0.5_BVZ
UT01a	/	V1.1	ORB10L5TR_v1.0.5_BVZ

*EUT ID: is used to identify the test sample in the lab internally.

The IMEI and SW version information were provided by the applicant.

The frequency stability was performed on UT01a, the others were performed on UT03a.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Battery	/	inbuilt

AE1

Model	BTE-6001
Manufacturer	HUIZHOU DXDRAGON INC
Capacity	6000mAh
Voltage	3.8V

4. Reference Documents

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 30	UPPER MICROWAVE FLEXIBLE USE SERVICE	10-1-20 Edition
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 842590	Upper Microwave Flexible Use Service v01r02	April 20, 2021

5. Laboratory Environment

Semi/Full-anechoic chamber SAC-1 (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (SVSWR)	Between 0 and 6 dB, from 1GHz to 18GHz

6. Summary Of Test Result

n260

Items	Test Name	Clause in FCC rules	limit	Verdict
1	Output Power	2.1046 30.202	+43dBm	P
2	Unwanted Emission	30.203	-13dBm/MHz	P
3	Frequency Stability	2.1055	Fundamental emissions stay within authorized frequency block	P
4	Occupied Bandwidth	2.1049	Not Applicable	Reporting only
5	Band Edge Compliance	2.1051 30.203	-5dBm/MHz from the band edge up to 10% of the channel BW	P

n261

Items	Test Name	Clause in FCC rules	limit	Verdict
1	Output Power	2.1046 30.202	+43dBm	P
2	Unwanted Emission	30.203	-13dBm/MHz	P
3	Frequency Stability	2.1055	Fundamental emissions stay within authorized frequency block	P
4	Occupied Bandwidth	2.1049	Not Applicable	Reporting only
5	Band Edge Compliance	2.1051 30.203	-5dBm/MHz from the band edge up to 10% of the channel BW	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable.The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.
Reporting only	No limit. Just report the measurement.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the output power, occupied bandwidth, band edge emission measurement investigation results. The test results shown in the following sections represent the worst case measurement results. For each frequency only the maximum measurement results of Beam ID were represent in the report. The Beam ID of maximum results for low, center and high frequency of different chains maybe vary.

7. Measurement Uncertainty

Measurement Uncertainty:

Frequency Range	Uncertainty(dB) (k=2)
30MHz-1GHz	5.18
1GHz-18GHz	5.54
Above 18GHz	5.26

Note: Uncertainty of the above 18GHz, giving only the worst case.

8. Test Equipment Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1	Signal Generator	SMF100A	104940	R&S	2023-12-09	1 year
2	Signal Generator	E8257D（60GHz）	MY59140557	Keysight	2022-01-19	1 year
3	Antenna	VULB 9163	01223	SCHWARZBECK	2022-02-03	1 year
4	Antenna	3115	6914	ETS-Lindgren	2024-01-14	1 year
5	Upconverter (50GHz-75GHz)	SMZ-75	101309	R&S	2024-01-14	1 year
6	Upconverter (75GHz-110GHz)	SMZ-110	101357	R&S	2024-02-04	1 year
7	Upconverter (110GHz-170GHz)	82406B	ZEI00141	Ceyear	2024-02-04	1 year
8	Upconverter (170GHz-220GHz)	82406C	ZEI00164	Ceyear	2022-02-04	1 year
9	Spectrum Analyzer	FSW67	103290	R&S	2024-02-04	1 year
10	(downconverter)Harmonic Mixer(60GHz-90GHz)	FS-Z90	101655	R&S	2024-01-19	1 year
11	(downconverter)Harmonic Mixer(75GHz-110GHz)	FS-Z110	101463	R&S	2024-02-17	1 year
12	(downconverter)Harmonic Mixer(110GHz-170GHz)/	FS-Z170	101008	R&S	2023-12-14	1 year
13	(downconverter)Harmonic Mixer(170GHz-220GHz)/	FS-Z220	101054	R&S	2024-01-14	1 year
14	Standard Gain Horn Antenna（40GHz-60GHz）	LB-19-25	J202024086	A-INFO	2024-01-14	1 year
15	Standard Gain Horn Antenna（40GHz-60GHz）	LB-19-25	J202024087	A-INFO	2023-12-14	1 year
16	Standard Gain Horn Antenna（60GHz-90GHz）	LB-12-25	J202062912	A-INFO	2024-02-17	1 year
17	Standard Gain HornAntenna（50GHz-75GHz）	LB-15-25	J202062019	A-INFO	2024-01-27	1 year
18	Standard Gain Horn Antenna（75GHz-110GHz）	LB-10-25	J202023231	A-INFO	2024-01-27	1 year
19	Standard Gain Horn Antenna（75GHz-110GHz）	LB-10-25	J202023232	A-INFO	2022-01-27	1 year
24	Standard Gain Horn Antenna	LB-6-25-A	J202061245	A-INFO	2022-01-27	1 year

	（110GHz-170GHz）					
25	Standard Gain Horn Antenna （170GHz-200GHz）	LB-5-25-A	J202067630	A-INFO	2022-01-27	1 year
26	DC power supply	PAS20-18	UH000695	Kikusui	2022-08-14	1 year
27	Incubator	SH-641	92009470	ESPEC	2022-02-14	1 year

Annex A: Radiated Test Setup

The radiated test facilities consisted of an indoor 3m/10m semi-anechoic chamber used for final measurements and exploratory measurements from 30MHz-18GHz, when necessary for radiated emissions measurements in the spurious domain. According to Clause 5 in ANSI C63.4-2014, absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz (Figure A.2). For measurements below 1GHz, the absorbers are removed (Figure A.1).

Radiated measurement test sites shall conform to the site validation criteria called out in CISPR 16-1-4:2019 above 18 GHz. The test object is mounted on a positioner (Figure A.3). The positioner is used to move the test object according to the sampling grid. A measurement antenna is placed in the chamber at a suitable measurement antenna far-field distance.

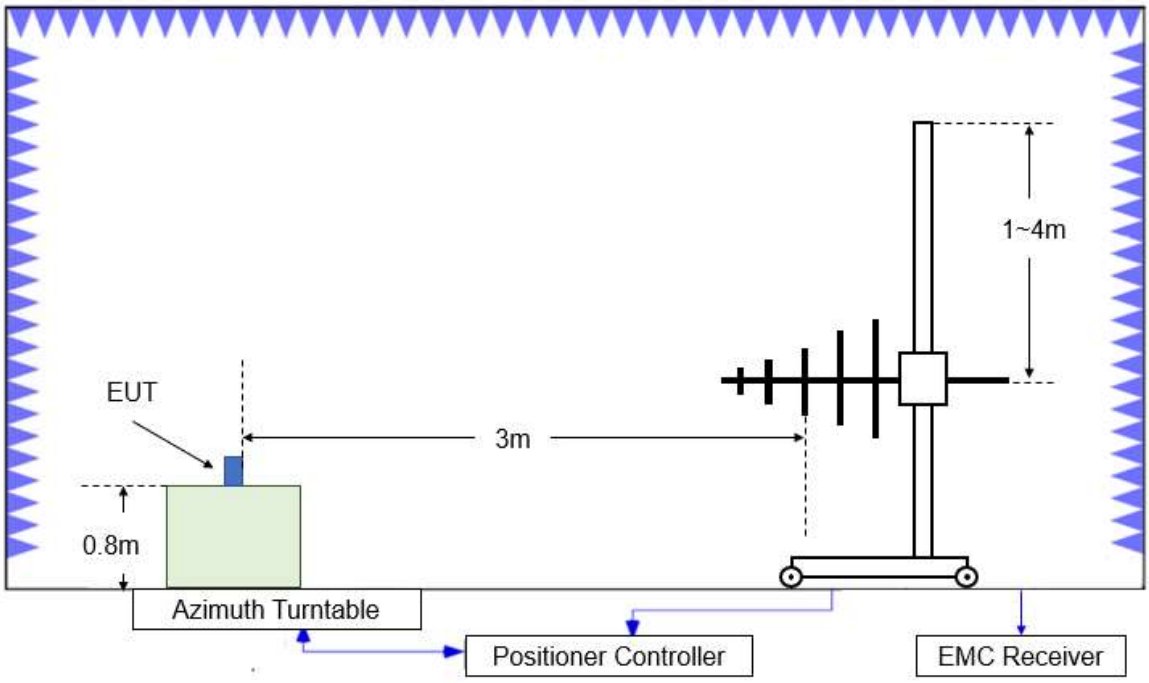


Figure A.1. Test Site Diagram (30MHz-1GHz)

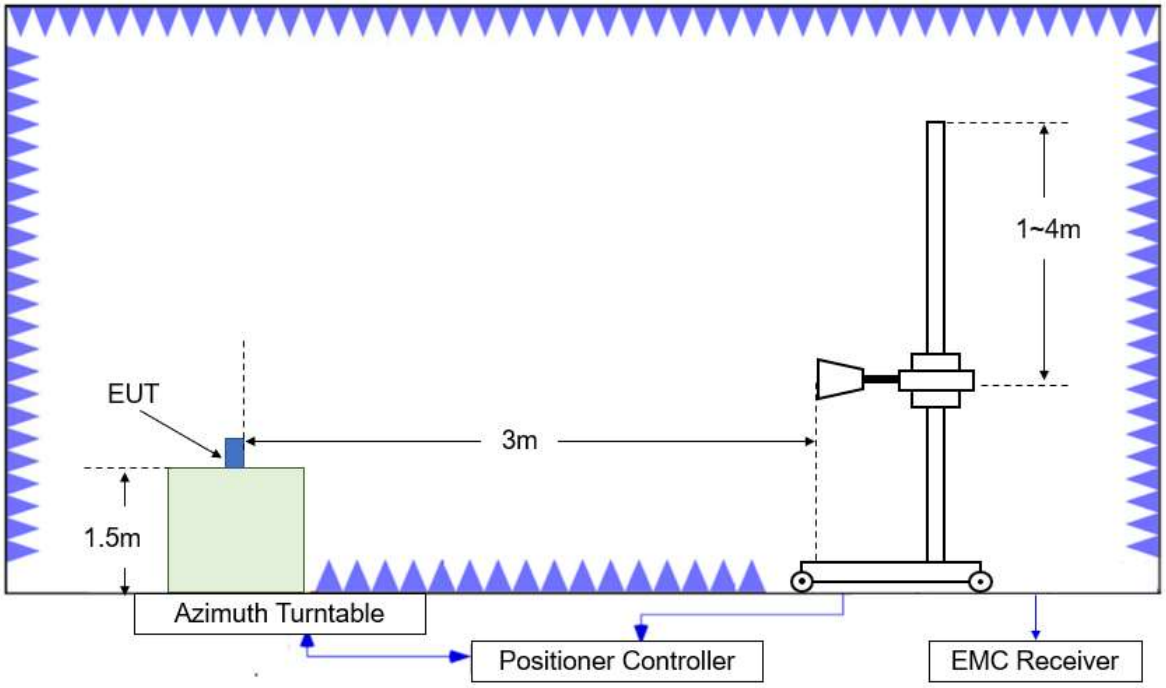


Figure A.2. Test Site Diagram (1GHz-18GHz)

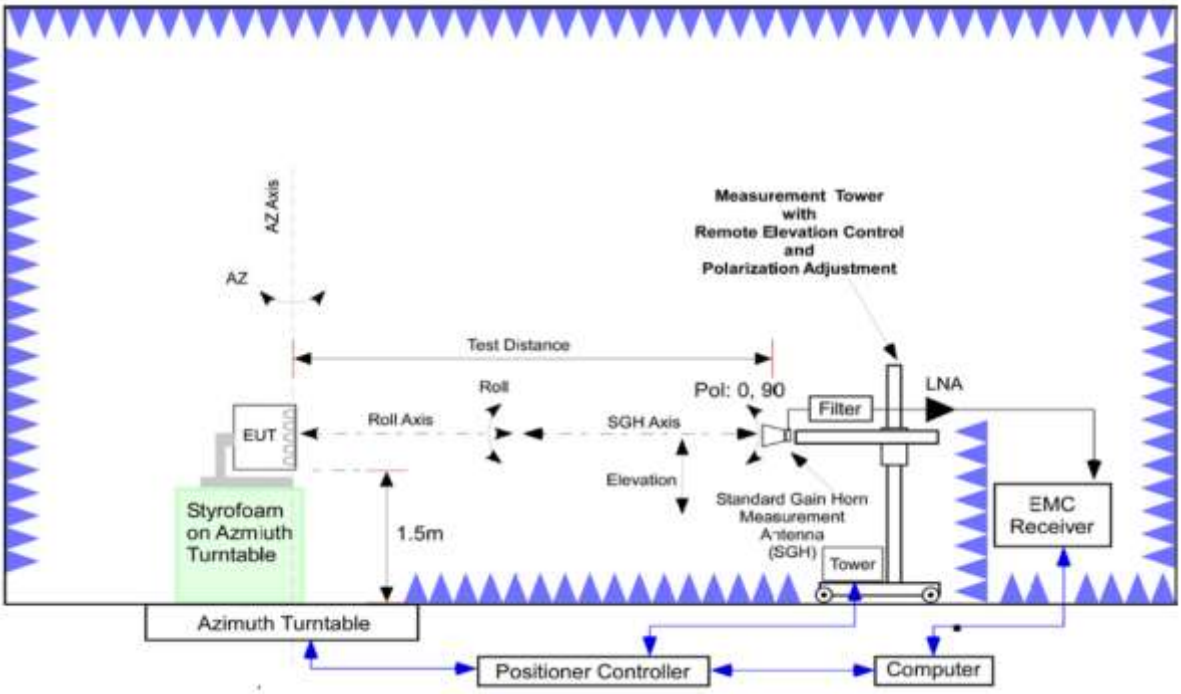


Figure A.3. Test Site Diagram (above18GHz)

Annex B: Measurement Results

B.1 Radiated Output Power

B.1.1 Summary

In all cases, output power is within the specified limits.

30.202 (b) For mobile stations, the average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.

B.1.2 Minimum Measurement Distance Evaluation

According to KDB842590 D01, the measurements of the fundamental emission, out of band, harmonics and spurious emissions shall be made in the far field of the measurement antenna. The far-field boundary for mmW antennas is greater than or equal to $2D^2/\lambda$ (with D being the largest dimension of the antenna, and λ the wavelength of the emission). We calculate the far-field boundary and the test distance meet the requirement of standard.

B.1.3 Method of Measurements

NASI C63.26 chapter 5.5.2.1: Such radiated measurements shall use substitution methods unless a test site validated to ANSI C63.4 requirements is utilized, in which case, radiated fundamental and/or unwanted emissions can be measured using the direct radiated field strength method.

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

An spectrum analyzer is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, a spectrum analyzer can always be used to perform the measurement when the EUT can be configured to transmit continuously.

The EIRP measurement used integration method and the bandwidth is 100MHz.

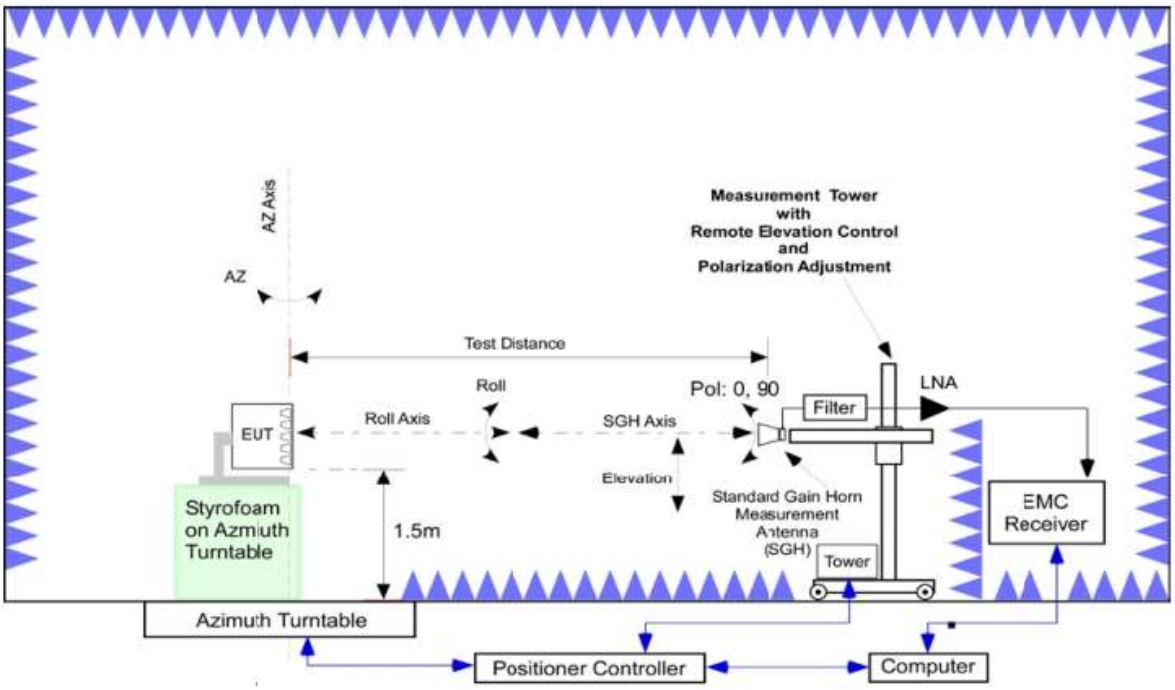
B.1.4 Test Procedure

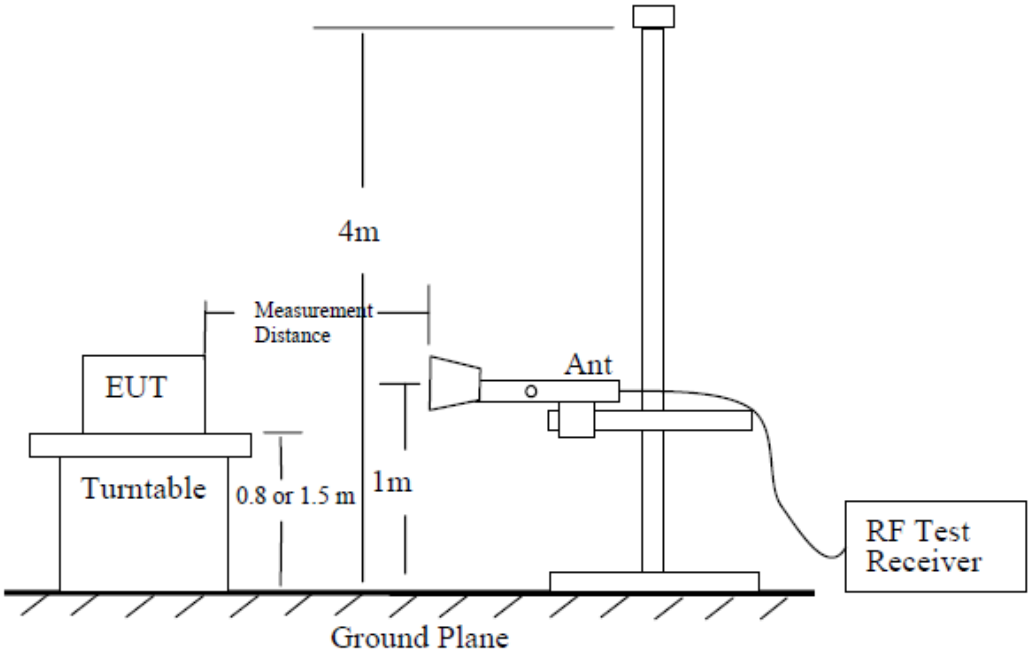
According to Clause 5.2.4.4 in ANSI C63.26-2015 and Clause 4.2 in KDB 842590 D01 v01r02

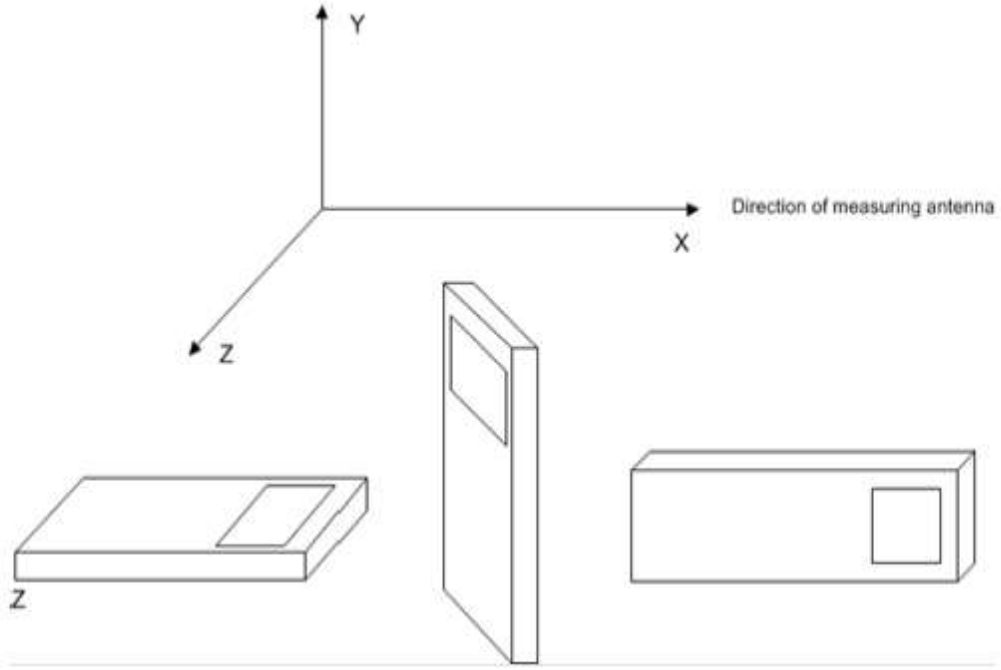
1. Set EUT at maximum output power
2. Select channels for each band and proper modulation
3. Enable channel power measurement function of spectrum analyzer
4. Set RBW = 1% to 5% of the OBW, not to exceed 1MHz
5. Set VBW ≥ 3×RBW
6. Set span to 2× to 3× the OBW
7. Set number of measurement points in sweep ≥ 2×span/RBW
8. Set Detector = RMS (power averaging)
9. Set Sweep time = auto-couple
10. Trace average at least 100 traces in power averaging (rms) mode

11. Compute the power by integrating the spectrum across the OBW of the signal for signals with continuous operation

Using the test configuration as follow, measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits.







The emission characteristics of the EUT can be identified from the pre-scan measurement information.

Exploratory radiated measurements (pre-scans) may be performed to determine the general EUT radiated emissions characteristics and, when necessary, the EUT-to-measurement antenna orientation that produces the maximum emission amplitude. Pre-scans shall only be used to determine the emission frequencies (i.e., not amplitude levels). The information garnered from a pre-scan can then be used to perform final compliance measurements using either the substitution or direct field strength method.

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. When maximizing the emissions from the EUT for measurement, the EUT and its transmitting antenna(s) shall be rotated through 360°. For each mode of operation to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Test Note:

EIRP was calculated from measuring field strength by the following formula:

EIRP (dBm) = E (dBμV/m) + 20log(D) − 104.8

where

E (dBμV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)

where

Antenna Factor（dB/m) = 20log(F)-Antenna Gain(dBi)-29.76

Then the average EIRP reported below is calculated by:

EIRP (dBm) = Measured amplitude level (dBm) - Antenna Gain(dBi) + Cable Loss(dB) + 20log(F) + 20log(D) - 27.56

Where:

F: frequency (MHz)

D: Distance(m) = 3m

B.1.5 Measurement Result

Note: We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

The plots are showed in Annex D.1.

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	16.11	/	/
		38499.96	20.11	19.20	16.13
		39975	21.16	/	/
	1RB	37025.04	16.73	/	/
		38499.96	21.24	20.64	17.09
		39975	21.74	/	/
100MHz	100% RB	37050	16.63	/	/
		38499.96	21.71	20.19	16.92
		39949.92	22.53	/	/
	1RB	37050	17.07	/	/
		38499.96	22.41	21.46	18.07
		39949.92	22.89	/	/

Note: We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n260, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	18.03	/	/
		38499.96	22.27	20.59	17.45
		39975	23.14	/	/
	1RB	37025.04	20.69	/	/
		38499.96	24.75	22.40	19.75
		39975	25.09	/	/
100MHz	100% RB	37050	18.90	/	/
		38499.96	22.86	21.14	18.35
		39949.92	24.07	/	/
	1RB	37050	21.41	/	/
		38499.96	25.22	23.93	20.68
		39949.92	25.37	/	/

Note: The worst modulation is PUSCH DFT - QPSK, and we test follow setups used PUSCH DFT - QPSK.

n260, Module1, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	17.71	/	/
		38499.96	20.35	/	/
		39975	22.37	/	/
	1RB	37025.04	19.87	/	/
		38499.96	23.06	/	/
		39975	24.37	/	/
100MHz	100% RB	37050	18.05	/	/
		38499.96	20.91	/	/
		39949.92	23.67	/	/
	1RB	37050	20.33	/	/
		38499.96	23.66	/	/
		39949.92	25.13	/	/

Note: We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n261, Module0, SCS=120kHz,CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	14.00	/	/
		27924.96	17.40	13.58	11.23
		28324.92	10.50	/	/
	1RB	27525	14.74	/	/
		27924.96	14.64	14.23	11.67
		28324.92	10.03	/	/
100MHz	100% RB	27550.08	18.50	/	/
		27924.96	18.72	17.63	17.77
		28299.96	18.93	/	/
	1RB	27550.08	/	17.67	/
		27924.96	18.47	19.94	17.23
		28299.96	/	20.10	/

Note: We choose the worst modulation by the EIRP of middle channel, the high channel and low channel measure the EIRP only with the worst modulation.

n261, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	16.04	/	/
		27924.96	18.70	16.95	15.13
		28324.92	14.10	/	/
	1RB	27525	16.82	/	/
		27924.96	21.15	18.49	16.60
		28324.92	13.11	/	/
100MHz	100% RB	27550.08	21.04	/	/
		27924.96	21.49	19.70	17.73
		28299.96	22.38	/	/
	1RB	27550.08	23.22	/	/
		27924.96	24.11	20.99	19.26
		28299.96	25.39	/	/

Note: The worst modulation is PUSCH DFT - QPSK, and we test follow setups used PUSCH DFT – QPSK。

n261, Module1, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	18.80	/	/
		27924.96	17.47	/	/
		28324.92	13.66	/	/
	1RB	27525	19.86	/	/
		27924.96	18.75	/	/
		28324.92	14.16	/	/
100MHz	100% RB	27550.08	20.04	/	/
		27924.96	19.80	/	/
		28299.96	20.43	/	/
	1RB	27550.08	22.28	/	/
		27924.96	21.43	/	/
		28299.96	22.29	/	/

B.2 Emission Limit

B.2.1 Summary

The spectrum of FR2 n260 was scanned from 30 MHz to 200GHz, the spectrum of FR2 n261 was scanned from 30 MHz to 100GHz. All modes of operation were investigated and the worst case configuration results are reported in this section.

30.203 (a) The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be −13dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

B.2.2 Minimum Measurement Distance Evaluation

According to KDB842590 D01, the measurements of the fundamental emission, out of band, harmonics and spurious emissions shall be made in the far field of the measurement antenna. The far-field boundary for mmW antennas is greater than or equal to $2D^2/\lambda$ (with D being the largest dimension of the antenna, and λ the wavelength of the emission). We calculate the far-field boundary and the test distance meet the requirement of standard.

B.2.3 Measurement Method

The measurement procedures in ANSI C63.26 are used.

The spectrum was scanned from 30 MHz to the 5th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 30.203.

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of FR2 n260 and FR2 n261.

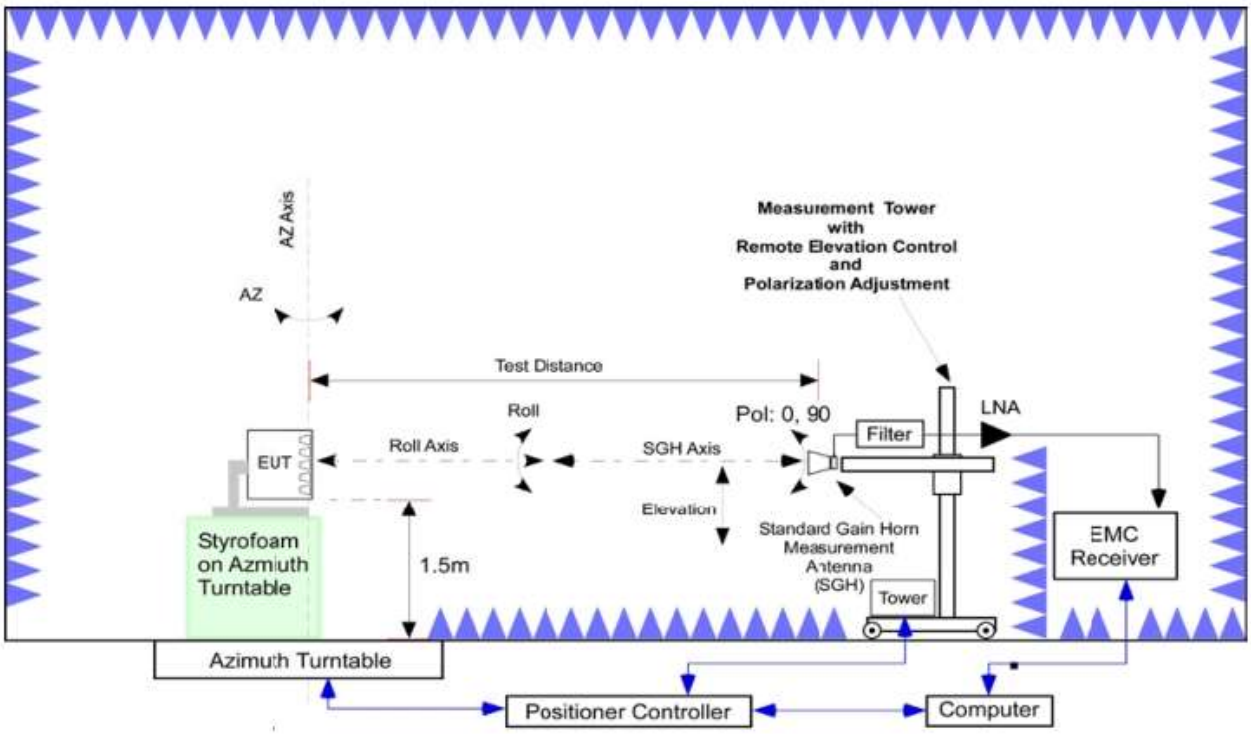
NASI C63.26 chapter 5.5.2.1: Such radiated measurements shall use substitution methods unless a test site validated to ANSI C63.4 requirements is utilized, in which case, radiated fundamental and/or unwanted emissions can be measured using the direct radiated field strength method.

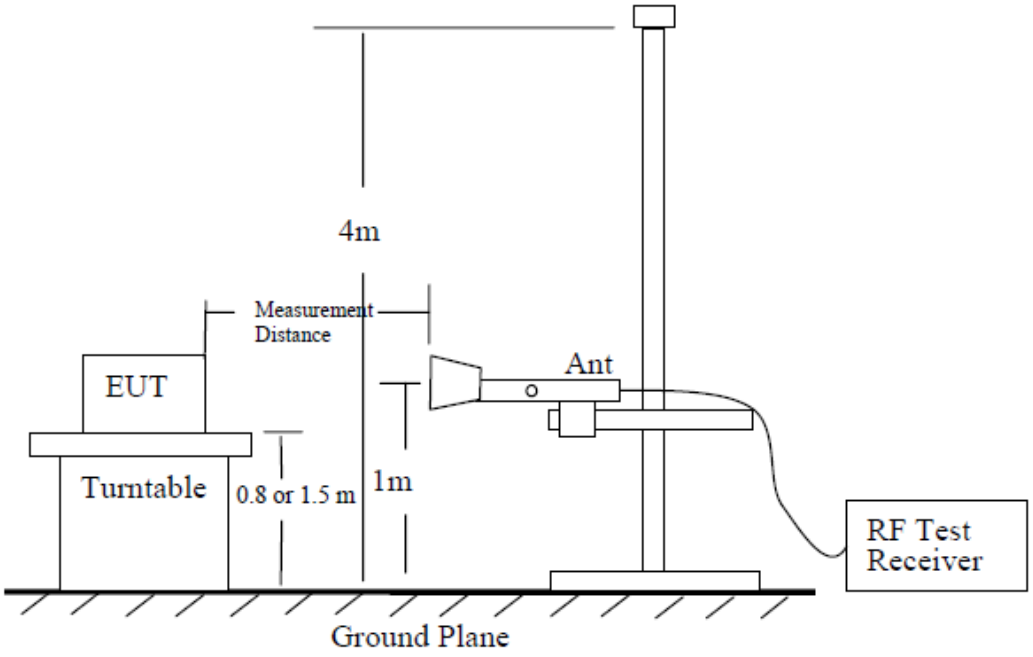
B.2.4 Test Procedure

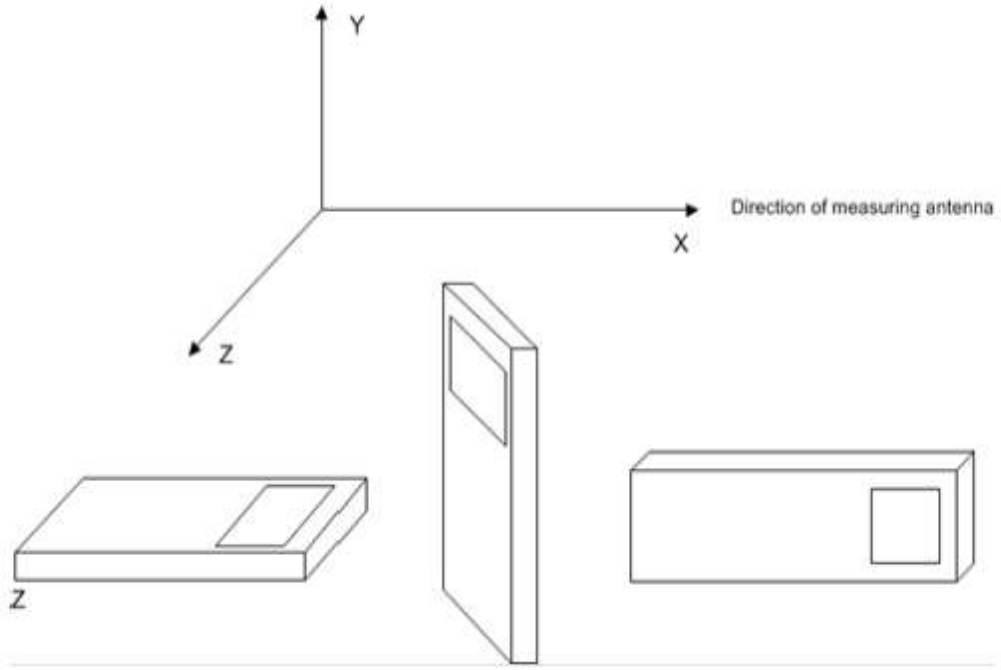
According to Clause 5.5 in ANSI C63.26-2015, 30.203 (b)and Clause 4.4 in KDB 842590 D01 v01r02

1. Set EUT at maximum output power
2. Select channels for each band and proper modulation
3. Set RBW=1MHz, VBW=3MHz
4. Set number of measurement points in sweep ≥ 2×span/RBW
5. Set Detector = RMS
6. Set Sweep time = auto-couple
7. Trace average at least 100 traces in power averaging (rms) mode
8. The trace was allowed to stabilize

Using the test configuration as follow, measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits.







The emission characteristics of the EUT can be identified from the pre-scan measurement information.

Exploratory radiated measurements (pre-scans) may be performed to determine the general EUT radiated emissions characteristics and, when necessary, the EUT-to-measurement antenna orientation that produces the maximum emission amplitude. Pre-scans shall only be used to determine the emission frequencies (i.e., not amplitude levels). The information garnered from a pre-scan can then be used to perform final compliance measurements using either the substitution or direct field strength method.

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 5th harmonic were measured with peak detector.

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. When maximizing the emissions from the EUT for measurement, the EUT and its transmitting antenna(s) shall be rotated through 360°. For each mode of operation to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored.

Final measurements shall be performed for the worst case combination(s) of variable technical parameters that result in the maximum measured emission amplitude, record the frequency and

amplitude of the highest fundamental emission (if applicable), and the frequency and amplitude data for the six highest-amplitude spurious emissions.

Test Note:

1. The average EIRP reported below is calculated by:

30M-18GHz: EIRP (dBm) = Spectrum Analyzer Level (dBm) + Path Loss(dB)

18GHz-60GHz: EIRP (dBm) = Spectrum Analyzer Level (dBm) - Antenna Gain (dBi) + Cable Loss (dB) + 20log (F) + 20log(D) - 27.56

60GHz-110GHz: EIRP (dBm) = Spectrum Analyzer Level (dBm) - Antenna Gain (dBi) + converter Loss (dB) + 20log(F) + 20log(D) - 27.56

Where: F: frequency (MHz), D: Distance(m), the distance for different frequency range as shown in table.

Frequency Range	Distance(m)	Frequency Range	Distance(m)
30MHz-1GHz	3	60GHz-75GHz	3
1GHz-18GHz	3	75GHz-110GHz	3
18GHz-40GHz	3	110GHz-170GHz	1
40GHz-60GHz	3	170GHz-200GHz	0.5

2. The TRP method refers to the Clause 4.4 of KDB 842590 D01 v01r02. If EIRP measurement results exceed the emission limit, then TRP measurement will be used as an alternative method.
3.

B.2.5 Measurement Results Table (worse case of the power measured)

The plots are showed in Annex D.2.

Band	Antenna	Modulation	Band-width	Channel	Frequency Range	Result
n260	Module 0	PUSCH DFT, QPSK	100MHz/ 1RB-MID	Low	30MHz-200GHz	Pass
				Middle		Pass
				High		Pass
n261	Module 0	PUSCH DFT, QPSK	100MHz/ 1RB-MID	Low	30MHz-100GHz	Pass
				Middle		Pass
				High		Pass

B.3 Frequency Stability

B.3.1 Summary

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

B.3.2 Test Procedure

According to Clause 5.6 in ANSI C63.26-2015 and 2.1055

For temperature variation

1. Measure the carrier frequency at room temperature (20 °C to provide a reference)
2. At 10 °C intervals of temperatures between −30 °C and +50 °C
3. While maintaining a constant temperature inside the environmental chamber, turn on the EUT and allow sufficient time for the EUT temperature to stabilize

For supply voltage variation

1. The EUT was placed in a temperature chamber at 20 °C
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.

B.3.3 Measurement results

n260, PUSCH DFT QPSK, 1RB

Frequency Error vs Temperature

OPERATING FREQUENCY: 38499960000Hz

POWER （VDC）	TEMP (℃)	FREQUENCY (Hz)	Freq. Dev (Hz)	Deviation (%)
4.0	+20(REF)	38500510000	/	/
	-30	/	/	/
	-20	/	/	/
	-10	38500517900	7900	0.000021%
	+0	38500482000	-28000	-0.000073%
	+10	38500531800	21800	0.000057%
	+20	38500438200	-71800	-0.000186%
	+30	38500319000	-191000	-0.000496%
	+40	38500239300	-270700	-0.000703%
	+50	38500309000	-201000	-0.000522%
3.6	+20	38500848000	338000	0.000878%
4.4	+20	38500823000	313000	0.000813%

n261, PUSCH DFT QPSK, 1RB

Frequency Error vs Temperature

OPERATING FREQUENCY: 27924960000Hz

POWER （VDC）	TEMP (℃)	FREQUENCY (Hz)	Freq. Dev (Hz)	Deviation (%)
4.0	+20(REF)	27925400210	/	/
	-30	/	/	/
	-20	/	/	/
	-10	27925532500	132290	0.000474%
	+0	27925664900	264690	0.000948%
	+10	27925589410	189200	0.000678%
	+20	27925617500	217290	0.000778%
	+30	27925548300	148090	0.000530%
	+40	27925348600	-51610	-0.000185%
	+50	27925328700	-71510	-0.000256%
3.6	+20	27925420110	19900	0.000071%
4.4	+20	27925430010	29800	0.000107%

B.4 Occupied Bandwidth

B.4.1 Summary

occupied bandwidth (OBW) as the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean power is equal to 0.5% of the total mean power radiated by a given emission shall be measured.

No limit is applicable, the results are for reporting only.

B.4.2 Minimum Measurement Distance Evaluation

According to KDB842590 D01, the measurements of the fundamental emission, out of band, harmonics and spurious emissions shall be made in the far field of the measurement antenna. The far-field boundary for mmW antennas is greater than or equal to $2D^2/\lambda$ (with D being the largest dimension of the antenna, and λ the wavelength of the emission). We calculate the far-field boundary and the test distance meet the requirement of standard.

B.4.3 Test Procedure

According to Clause 5.4 in ANSI C63.26-2015 and 2.1049

1. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 × OBW is sufficient).
2. Set RBW = 1% to 5% of the anticipated OBW
3. Set VBW ≥ 3×RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

Test Note:

The average EIRP reported below is calculated by:

EIRP (dBm) = Spectrum Analyzer Channel Power Level(dBm) - Antenna Gain(dBi) + Cable Loss(dB) + 20log(F) + 20log(D) - 27.56

Where:

F: frequency (MHz)

D: Distance(m) = 3m

B.4.4 Measurement results

The plots are showed in Annex D.3.

Note: We choose the worst modulation by the OBW of middle channel, the high channel and low channel measure the OBW only with the worst modulation.

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	46.05	/	/
		38499.96	46.01	45.82	45.93
		39975	46.05	/	/
100MHz	100% RB	37050	94.35	/	/
		38499.96	94.30	94.22	94.23
		39949.92	**94.62**	/	/

Note: We choose the worst modulation by the OBW of middle channel, the high channel and low channel measure the OBW only with the worst modulation.

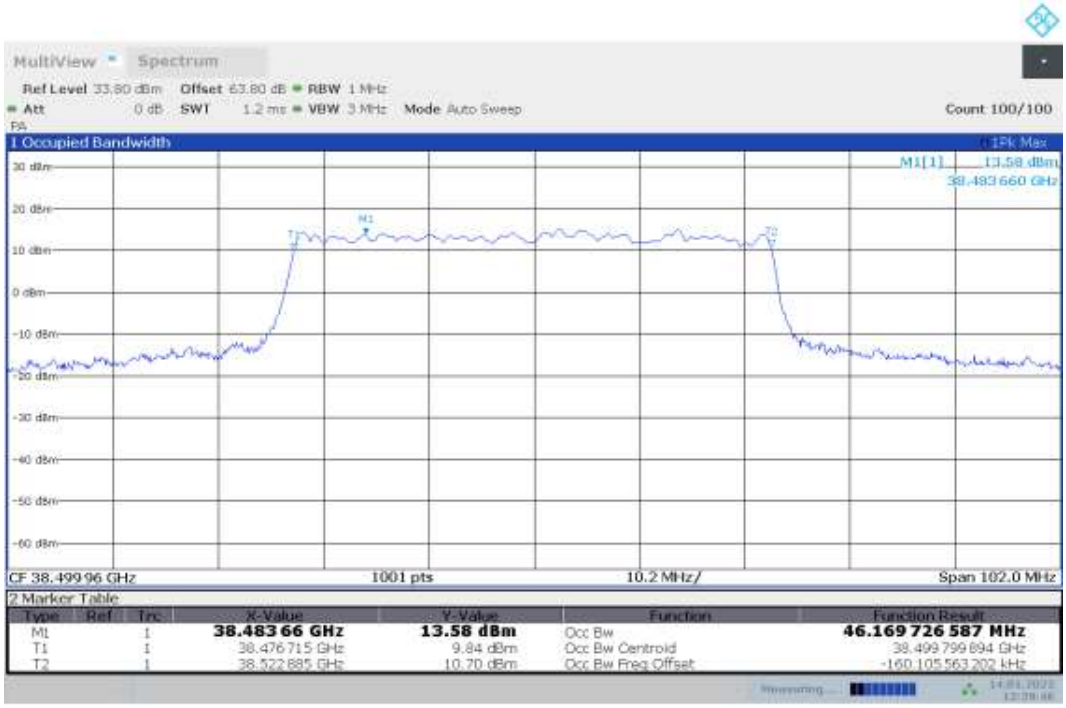
n260, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	46.05	/	/
		38499.96	46.03	45.96	45.79
		39975	46.07	/	/
100MHz	100% RB	37050	91.57	/	/
		38499.96	91.44	91.38	91.22
		39949.92	91.71	/	/

Note: The max EIRP modulation is QPSK, and we test follow setups used QPSK.

n260, Module1, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	46.15	/	/
		38499.96	**46.17**	/	/
		39975	46.17	/	/
100MHz	100% RB	37050	91.30	/	/
		38499.96	91.18	/	/
		39949.92	91.33	/	/

The maximum occupied bandwidth figures were showed in the following page.

n260, Module 1, 50MHz Bandwidth, PUSCH DFT, Mid Channel, 38499.96MHz, QPSK (99% BW)



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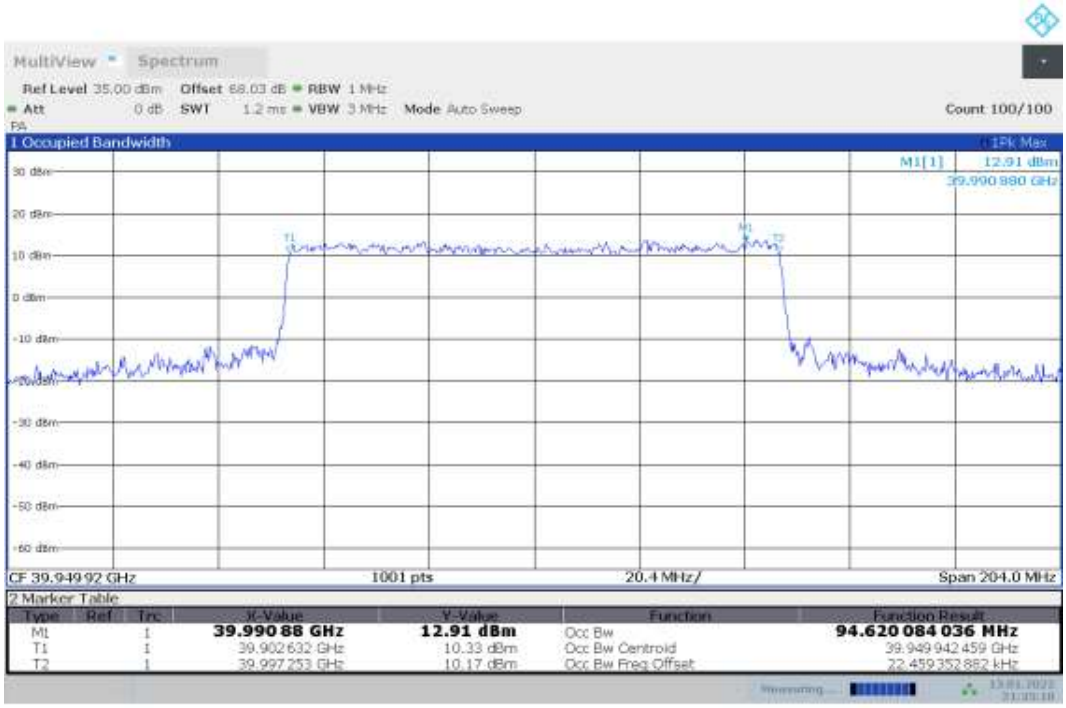
n260, Module 0, 100MHz Bandwidth, CP-OFDM, High Channel, 39949.92MHz, QPSK (99% BW)



21:35:11 13.01.2022

Note: We choose the worst modulation by the OBW of middle channel, the high channel and low channel measure the OBW only with the worst modulation.

n261, Module0, SCS=120kHz,CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	46.07	/	/
		27924.96	46.01	45.74	45.80
		28324.92	46.13	/	/
100MHz	100% RB	27550.08	94.25	/	/
		27924.96	94.28	94.12	94.09
		28299.96	**94.31**	/	/

Note: We choose the worst modulation by the OBW of middle channel, the high channel and low channel measure the OBW only with the worst modulation.

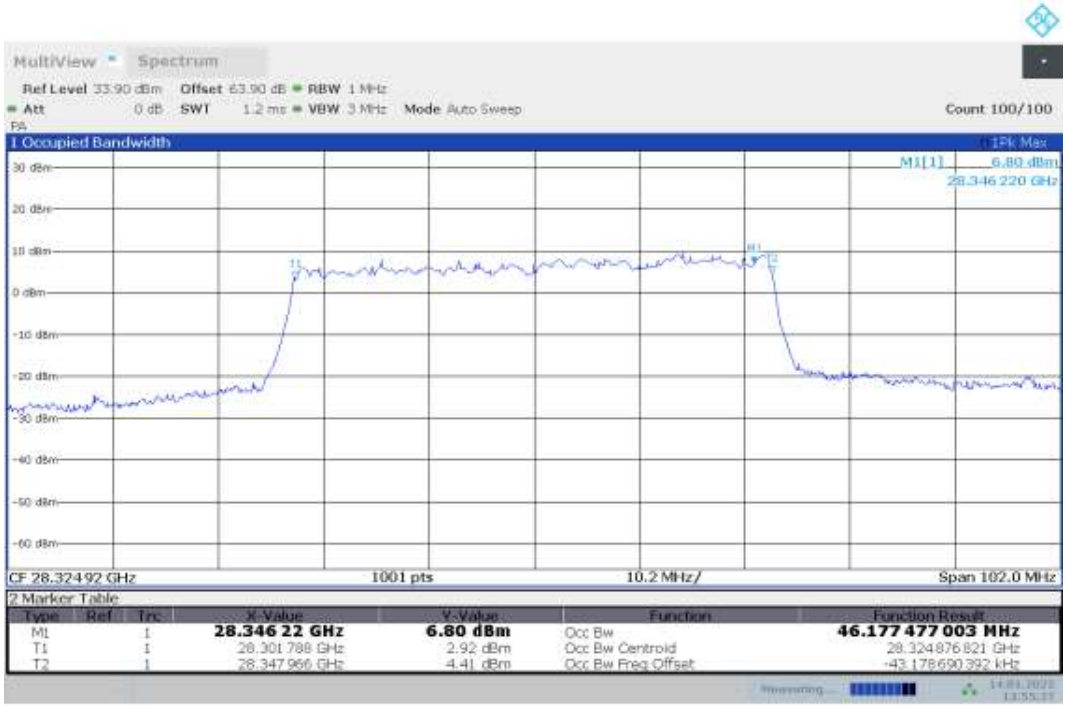
n261, Module0, SCS=120kHz,PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	46.00	/	/
		27924.96	46.08	45.99	45.80
		28324.92	46.04	/	/
100MHz	100% RB	27550.08	/	/	91.25
		27924.96	91.19	91.28	91.39
		28299.96	/	/	91.44

Note: The max EIRP modulation is QPSK, and we test follow setups used QPSK.

n261, Module1, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	OBW (MHz)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	46.12	/	/
		27924.96	46.08	/	/
		28324.92	**46.18**	/	/
100MHz	100% RB	27550.08	91.39	/	/
		27924.96	91.34	/	/
		28299.96	91.37	/	/

The maximum occupied bandwidth figures were showed in the following page.

n261, Module 1, 50MHz Bandwidth, PUSCH DFT, High Channel, 28324.92MHz, QPSK (99% BW)



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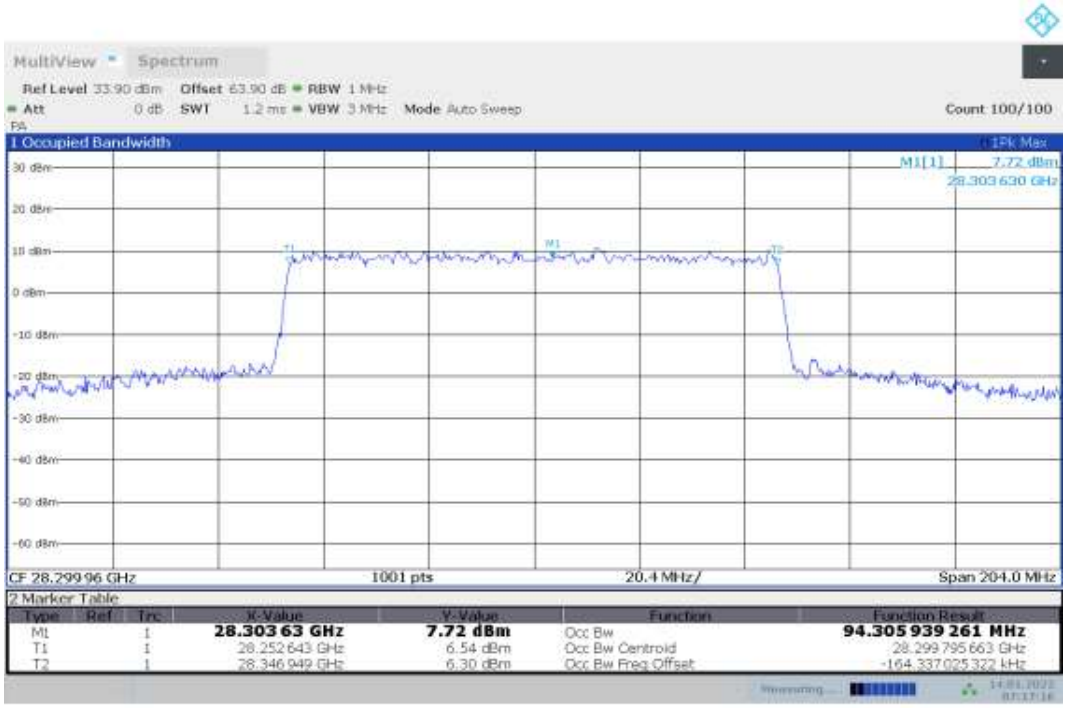
n261, Module 0, 100MHz Bandwidth, CP-OFDM, High Channel, 28299.96MHz, QPSK (99% BW)



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B.5 Band Edge Compliance

B.5.1 Summary

All modes of operation were investigated and the worst case configuration results are reported in this section.

30.203 (a) The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be −13dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

B.5.2 Minimum Measurement Distance Evaluation

According to KDB842590 D01, the measurements of the fundamental emission, out of band, harmonics and spurious emissions shall be made in the far field of the measurement antenna. The far-field boundary for mmW antennas is greater than or equal to $2D^2/\lambda$ (with D being the largest dimension of the antenna, and λ the wavelength of the emission). We calculate the far-field boundary and the test distance meet the requirement of standard.

B.5.3 Test Procedure

According to Clause 5.7 in ANSI C63.26-2015 and Clause 4.4 in KDB 842590 D01 v01r02

1. Start and stop frequency were set such that both upper and lower band edges are measured.
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Set RBW=1MHz, VBW=3MHz
4. Set number of measurement points in sweep ≥ 2×span/RBW
5. Set Detector = RMS
6. Set Sweep time = auto-couple
7. Trace average at least 100 traces in power averaging (rms) mode
8. The trace was allowed to stabilize

Test Note:

The average EIRP reported below is calculated by:

EIRP (dBm) = Spectrum Analyzer Level (dBm) - Antenna Gain (dBi) + Cable Loss (dB) + 20log (F) + 20log(D) - 27.56

Where: F: frequency (MHz), D: Distance(m)

B.5.4 Measurement result

n260

Module0, SCS=120kHz, CP-OFDM, 50MHz

Note: The channel with the maximum OBW was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	26	-29.75	-31.13
		100% RB	High	26	-24.88	-26.49
	QPSK	1 RB	Low	26	-25.18	-34.65
		1 RB	High	26	-19.77	-29.61
100MHz	QPSK	100% RB	Low	26	-32.35	-34.01
		100% RB	High	26	-31.95	-31.63
	QPSK	1 RB	Low	26	-26.50	-35.04
		1 RB	High	26	-21.54	-30.02

n260

Module0, SCS=120kHz, PUSCH DFT, 50MHz

Note: The channel with the maximum OBW was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	26	-26.88	-28.65
		100% RB	High	26	-22.55	-24.20
	QPSK	1 RB	Low	26	**-22.84**	**-33.89**
		1 RB	High	26	**-17.88**	**-27.76**
100MHz	QPSK	100% RB	Low	26	-33.49	-35.17
		100% RB	High	26	-27.19	-27.95
	QPSK	1 RB	Low	26	-22.74	-26.50
		1 RB	High	26	-21.36	-22.08

n260

Module1, SCS=120kHz, PUSCH DFT, 50MHz

Note: The channel with the maximum EIRP was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	21	-26.51	-29.94
		100% RB	High	21	-22.52	-24.55
	QPSK	1 RB	Low	21	-26.04	-33.99
		1 RB	High	21	-19.07	-25.58
100MHz	QPSK	100% RB	Low	21	-30.97	-33.20
		100% RB	High	21	-27.99	-29.10
	QPSK	1 RB	Low	21	-25.10	-34.29
		1 RB	High	21	-21.56	-29.37

n261

Module0, SCS=120kHz, CP-OFDM, 50MHz

Note: The channel with the maximum OBW was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	32	-38.74	-40.26
		100% RB	High	32	-40.12	-41.03
	QPSK	1 RB	Low	32	-33.05	-44.98
		1 RB	High	32	-38.20	-45.21
100MHz	QPSK	100% RB	Low	32	-42.73	-44.17
		100% RB	High	32	-41.00	-41.01
	16QAM	1 RB	Low	32	-36.02	-44.74
		1 RB	High	32	-36.58	-44.35

n261

Module0, SCS=120kHz, PUSCH DFT, 50MHz

Note: The channel with the maximum OBW was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	32	-35.15	-37.66
		100% RB	High	32	-36.17	-37.26
	QPSK	1 RB	Low	32	-30.96	-42.65
		1 RB	High	32	-35.76	-43.84
100MHz	64QAM	100% RB	Low	32	-33.80	-35.90
		100% RB	High	32	-37.45	-37.34
	QPSK	1 RB	Low	32	-24.02	-38.27
		1 RB	High	32	-33.71	-39.50

n261

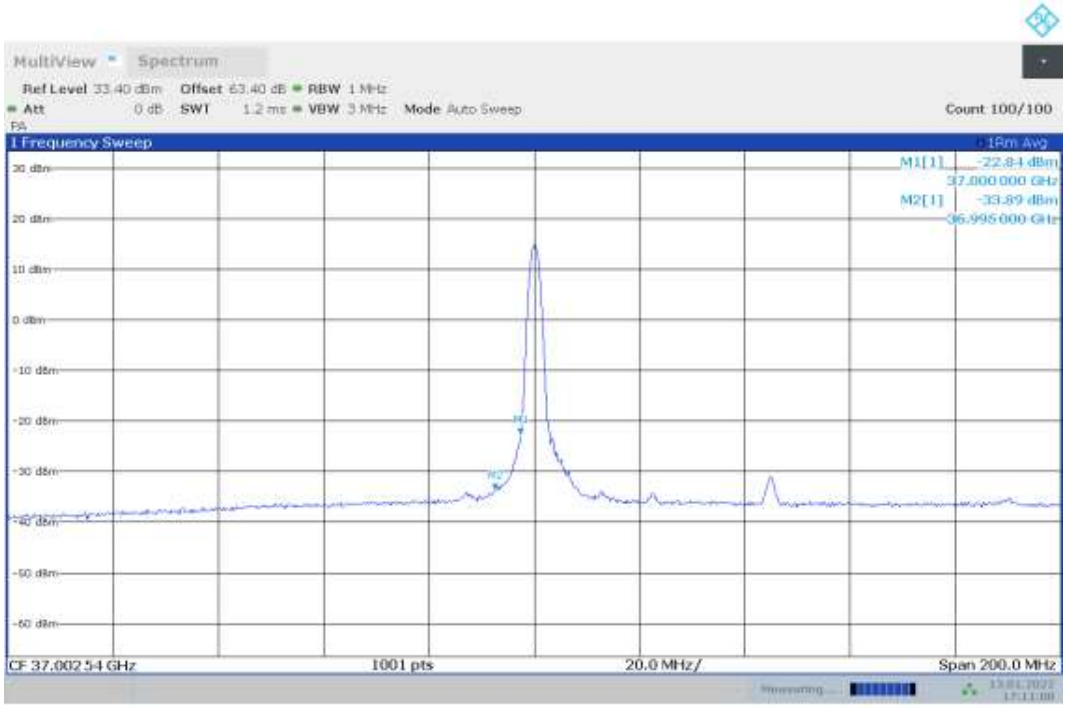
Module1, SCS=120kHz, PUSCH DFT, 50MHz

Note: The channel with the maximum EIRP was chose.

Bandwidth	Modulation	RB size	Frequency Range	Beam ID	Peak (dBm)	
					Limit: -5dBm	Limit: -13dBm
50MHz	QPSK	100% RB	Low	18	-31.57	-33.90
		100% RB	High	18	-36.95	-38.01
	QPSK	1 RB	Low	18	-29.59	-39.59
		1 RB	High	18	-33.05	-40.66
100MHz	QPSK	100% RB	Low	18	-36.57	-39.30
		100% RB	High	18	-41.36	-41.64
	QPSK	1 RB	Low	18	-27.62	-38.84
		1 RB	High	18	-37.86	-43.52

The left band edge worse case figure:

n260, Module0, SCS=120kHz, PUSCH DFT, 50MHz, 1 RB-Low, Low Channel, left band edge



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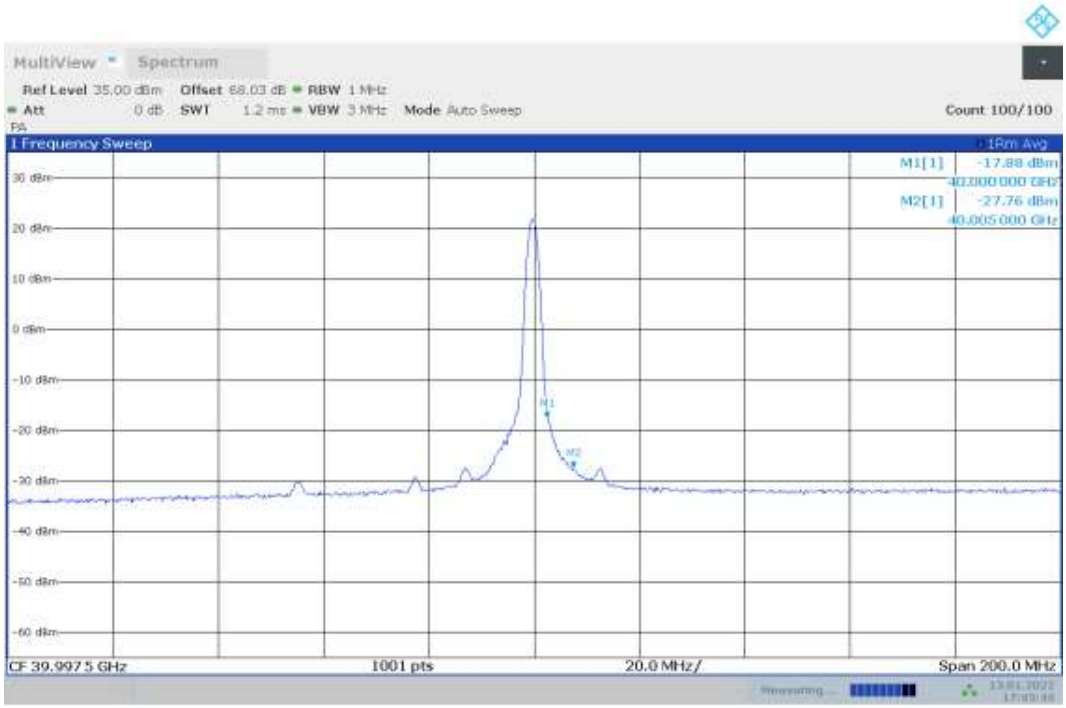
The right band edge worse case figure:

n260, Module0, SCS=120kHz, PUSCH DFT, 50MHz, 1 RB-High, High Channel, right band edge



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Annex C: Calibration Certificates List

Signal Generator	SMF100A	104940	R&S	2023-12-09	3 years

中国泰尔实验室 China Telecommunication Technology Labs

中国认可 国际互认 校准 CALIBRATION CNAS L0570

校 准 证 书

证书编号： J20X12055

客 户 名 称	中国泰尔实验室
客 户 地 址	北京市海淀区花园北路 52 号
器 具 名 称	信号发生器
型 号/规 格	SMF100A
出 厂 编 号	104940
制 造 单 位	ROHDE&SCHWARZ 公司
校 准 日 期	2020 年 12 月 10 日

所测数据符合该仪表说明书技术指标要求。

泰尔实验室 (校准专用章) 校准专用章

批准人：

核验员：

校准员：

地址：北京海淀区花园北路 52 号通信计量中心　　电话：+86-10-62301383
邮编：100191　　传真：+86-10-62304104
网址：www. chinattl.com　　Email：cal@caict.ac.cn

第 1 页　共 8 页

Signal Generator	E8257D（60GHz）	MY59140557	Keysight	2022-01-19	1 year

No. RAG202101178

第 1 页 共 8 页
Page 1 This certificate include 8 Pages

北京无线电计量测试研究所

Beijing Institute of Radio Metrology and Measurement
中国航天科工集团第二研究院二〇三所
国防科技工业第二计量测试研究中心

中国认可
校准
CALIBRATION
CNAS L1665

校 准 证 书

Certificate of Calibration

委托单位： 中国泰尔实验室
Customer

地址： 海淀区花园北路 52 号
Address

被测样品： 信号发生器
EUT/DUT

编号： MY59140557
No.

型号： E8257D
Type

制造商： 是德
Manufacturer

校准人： *Operator*

接收日期： *Acceptance date* 2021 年 *Year* 1 月 *Month* 18 日 *Day*

核验人： *Inspector*

校准日期： *Calibration date* 2021 年 *Year* 1 月 *Month* 20 日 *Day*

批准人： *Approver*

发证单位： *Issued by (stamp)*

本实验室地址(Add)：北京市海淀区永定路 50 号
No.50 Yongding Road , Haidian District ,Beijing
通信地址：北京 142 信箱 408 分箱
P. O. Box: 3930 ,Beijing China
服务电话(Tel)：010-68385358 监督电话(Tel)：010-68387448
邮政编码(Post Code)：100854 传真(Fax)： 86-10-68385470

Antenna	3115	6914	ETS-Lindgren	2022-02-03	1 year

中国计量科学研究院

校准证书

Calibration Certificate

证书编号 XDtx2021-10054
Certificate No.

客户名称 Client	中国泰尔实验室
器具名称 Instrument	喇叭天线
型号/规格 Type/Model	3115
出厂编号 Serial No.	6914
生产厂商 Manufacturer	ETS
联络信息 Contact Information	北京市海淀区花园北路 52 号
校准日期 Date of Calibration	2021-02-03
接收日期 Date of Receiving	2021-01-21

批准人：郭宪涛

Approved by

中国计量科学研究院 校准专用章

发布日期：2021 年 02 月 03 日
Date of Issue

地址：中国北京北三环东路 18 号
Address：No.18 Bei San Huan Dong Lu,Beijing,P.R.China
邮编：100029
Post Code
电话：+86-10-64525569/74
Tel
传真：+86-10-64271948
Fax
网址：http://www.nim.ac.cn
Website
电子邮箱：kehufuwu@nim.ac.cn
Email

2019-jz-R0520

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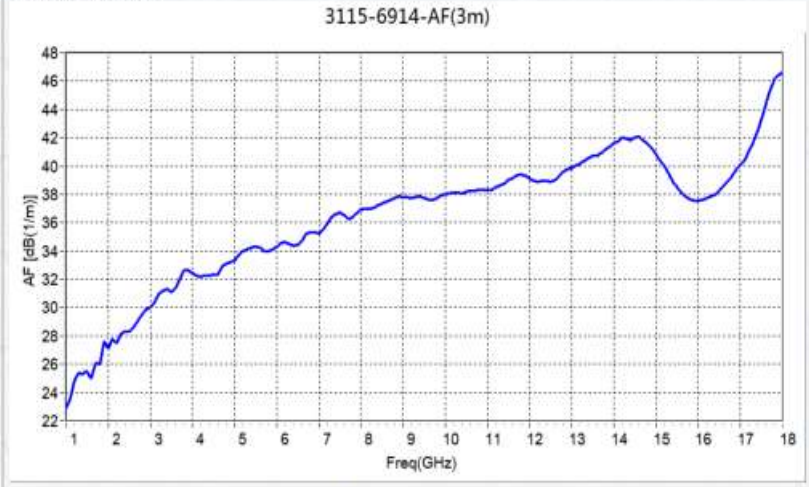
Page of

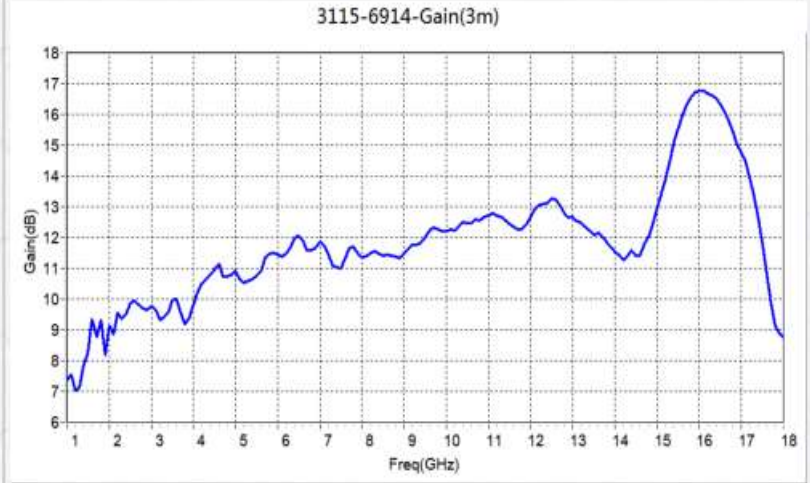
中 国 计 量 科 学 研 究 院

证书编号 XDtx2021-10054
Certificate No.

校 准 结 果
Calibration Results

校准曲线
Calibration Curve





2019-jz-R0520

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Page of

Upconverter(50GHz-75GHz)	SMZ-75	101309	R&S	2024-01-14	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDxh2021-10059

客户名称 中国泰尔实验室

器具名称 SMZ75 倍频源

型号/规格 SMZ75

出厂编号 101309

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 03 月 16 日

地址：北京北三环东路 18 号 邮编：100029

电话：010-64525569/74 传真：010-64271948

网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

2019-jz-R0520

第1页共4页

Upconverter(75GHz-110GHz)	SMZ-110	101357	R&S	2024-01-14	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDxh2021-10060

客户名称 中国泰尔实验室

器具名称 SMZ110 倍频源

型号/规格 SMZ110

出厂编号 101357

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 03 月 16 日

地址：北京北三环东路 18 号 邮编：100029

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网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

2019-jz-R0520

第1页共4页

Upconverter(110GHz-170GHz)/	82406B	ZEI00141	Ceyear	2024-02-04	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDgp2021-10237

客户名称 中国泰尔实验室

器具名称 信号源倍频器

型号/规格 82406B

出厂编号 ZEI00141

生产厂商 中电科仪器仪表有限公司

联络信息 北京市海淀区花园北路 52 号

校准日期 2021 年 02 月 05 日

接收日期 2021 年 01 月 08 日

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 02 月 08 日

地址：北京北三环东路 18 号 邮编：100029

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2019-jz-R0520

第1页共6页

Upconverter(170GHz-220GHz)/	82406C	ZEI00164	Ceyear	2024-02-04	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDgp2021-10238

客户名称 中国泰尔实验室

器具名称 信号源倍频器

型号/规格 82406C

出厂编号 ZEI00164

生产厂商 中电科仪器仪表有限公司

联络信息 北京市海淀区花园北路 52 号

校准日期 2021 年 02 月 05 日

接收日期 2021 年 01 月 08 日

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 02 月 08 日

地址：北京北三环东路 18 号 邮编：100029

电话：010-64525569/74 传真：010-64271948

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2019-jz-R0520

第1页共5页

Spectrum Analyzer	FSW67	103290	R&S	2022-02-04	1 year

No. RSA202101150

第 1 页 共 11 页
Page 1 This certificate include 11 Pages

北京无线电计量测试研究所

Beijing Institute of Radio Metrology and Measurement
中国航天科工集团第二研究院二〇三所
国防科技工业第二计量测试研究中心

中国认可 校准 CALIBRATION CNAS L1665

校 准 证 书
Certificate of Calibration

委托单位： 中国泰尔实验室
Customer

地址： 海淀区花园北路 52 号
Address

被测样品： 频谱分析仪
EUT/DUT

编号： 103290
No.

型号： FSW67
Type

制造商： R/S
Manufacturer

校准人： 武红平
Operator

接收日期： 2021 年 1 月 18 日
Acceptance date *Year* *Month* *Day*

核验人： 吴运任
Inspector

校准日期： 2021 年 1 月 20 日
Calibration date *Year* *Month* *Day*

批准人： 陈云梅
Approver

发证单位：
Issued by (stamp)

北京无线电计量测试研究所 校准 专用章

本实验室地址(Add)：北京市海淀区永定路 50 号
No.50 Yongding Road , Haidian District ,Beijing
通信地址：北京 142 信箱 408 分箱
P. O. Box: 3930 ,Beijing China
服务电话(Tel)：010-68385358 监督电话(Tel)：010-68387448
邮政编码(Post Code)：100854 传真(Fax)： 86-10-68385470

(downconverter)Harmonic Mixer(60GHz-90GHz)	FS-Z90	101655	R&S	2024-02-04	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDxh2021-10057

客户名称 中国泰尔实验室

器具名称 FS-Z90 混频器

型号/规格 FS-Z90

出厂编号 101655

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 01 月 20 日

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2019-jz-R0520

第1页共4页

(downconverter)Harmonic Mixer(75GHz-110GHz)	FS-Z110	101463	R&S	2024-01-19	3 years

中国计量科学研究院

校 准 证 书

证书编号 XDxh2021-10058

客户名称 中国泰尔实验室

器具名称 FS-Z110 混频器

型号/规格 FS-Z110

出厂编号 101463

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 01 月 20 日

地址：北京北三环东路 18 号 邮编：100029

电话：010-64525569/74 传真：010-64271948

网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

2019-jz-R0520

第1页共4页

(downconverter)Harmonic Mixer(110GHz-170GHz)/	FS-Z170	101008	R&S	2024-02-17	3 years

Radiometer Physics
A Rohde & Schwarz Company

Calibration Certificate
Kalibrierschein

Certificate Number 24-0170-101008-01
Zertifikatsnummer

Unit Data

Item Gegenstand: **Harmonic Mixer, 110 GHz to 170 GHz**

Manufacturer Hersteller: **RPG Radiometer-Physics GmbH**

Type Typ: **RPG FS-Z170**

Material Number Materialnummer: **3622.0714.02** **Serial Number** Seriennummer: **101008**

Asset Number Inventarnummer:

Order Data

Customer Auftraggeber:

Order Number Bestellnummer:

Date of Receipt Eingangsdatum:

Performance

Place and Date of Calibration Ort und Datum der Kalibrierung: **Meckenheim, 2021-02-18**

Scope of Calibration Umfang der Kalibrierung: **Standard Calibration**

Statement of Compliance (Incoming) Konformitätsaussage (Anlieferung): **New device**

Statement of Compliance (Outgoing) Konformitätsaussage (Auslieferung): **All measured values are within the data sheet specifications.**

Extend of Calibration Documents Umfang des Kalibrierdokuments: **2 pages Calibration Certificate**
4 pages Outgoing Results

This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor k = 2). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit k = 2). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

RPG Radiometer-Physics GmbH; Meckenheim

Date of Issue Ausstellungsdatum	Head of Laboratory Laborleitung	Person Responsible Bearbeiter
2021-02-22	Schulze	Heinze

Page (Seite) 1/2
Vers2010-05-05/
RPG2014-02-28

RPG Radiometer-Physics GmbH • Werner-von-Siemens-Str. 4 • 53340 Meckenheim • Telephone national: 02225/99981-0 international: 0049 2225-99981-0
Fax: 02225/99981-99 • Managing Director: Achim Walber • Company's Place of Business: Meckenheim
Commercial Register No.: Bonn, HRB 10291 • VAT Identification No.: DE 123 377 395

(downconverter)Harmonic Mixer(170GHz-220GHz)/	FS-Z220	101054	R&S	2023-12-14	3 years

Radiometer Physics
A Rohde & Schwarz Company

Calibration Certificate
Kalibrierschein

Certificate Number 24-0220-101054-01
Zertifikatsnummer

Unit Data

Item / Gegenstand: Harmonic Mixer, 140 GHz to 220 GHz

Manufacturer / Hersteller: RPG Radiometer-Physics GmbH

Type / Typ: RPG FS-Z220

Material Number / Materialnummer: 3593.3250.02 **Serial Number** / Seriennummer: 101054

Asset Number / Inventarnummer:

Order Data

Customer / Auftraggeber:

Order Number / Bestellnummer:

Date of Receipt / Eingangsdatum:

This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor k = 2). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.

Performance

Place and Date of Calibration / Ort und Datum der Kalibrierung: Meckenheim, 2020-12-15

Scope of Calibration / Umfang der Kalibrierung: Standard Calibration

Statement of Compliance (Incoming) / Konformitätsaussage (Anlieferung): New device

Statement of Compliance (Outgoing) / Konformitätsaussage (Auslieferung): All measured values are within the data sheet specifications.

Extend of Calibration Documents / Umfang des Kalibrierdokuments: 2 pages Calibration Certificate
4 pages Outgoing Results

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit k = 2). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

RPG Radiometer-Physics GmbH; Meckenheim

Date of Issue / Ausstellungsdatum	Head of Laboratory / Laborleitung	Person Responsible / Bearbeiter
2020-12-17	Schulze	Dick

Page (Seite) 1/2
Vers2010-05-05/
RPG2014-02-28

RPG Radiometer-Physics GmbH • Werner-von-Siemens-Str. 4 • 53340 Meckenheim • Telephone national: 02225/99981-0 international: 0049 2225-99981-0
Fax: 02225/99981-99 • Managing Director: Achim Walber • Company's Place of Business: Meckenheim
Commercial Register No.: Bonn, HRB 10291 • VAT Identification No.: DE 123 377 395

Standard Gain Horn （40GHz-60GHz）	LB-19-25	J202024086	A-INFO	2024-01-14	3 years

A-INFO 英联微波

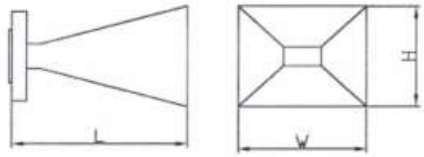
LB-19-25
40.0 - 60.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	A 型, 波导输出	40.0 - 60.0
	C 型, 2.4mm-50K 输出	40.0 - 50.0
	C 型, 1.85mm-50K 输出	40.0 - 60.0
增益(dB)	25 典型值	
驻波	1.6 最大值	
3dB 波束宽度(°)	10 典型值	
波导型号	BJ500(WR19)	
材料	铜	
输出形式	A 型 FUGP500	
	C 型 2.4mm-50K 或 1.85mm-50K	
尺寸(mm) 宽 x 高 x 长	A 型, 波导输出	49x41x130
	C 型, 2.4mm-50K 输出	49x41x155
	C 型, 1.85mm-50K 输出	49x41x157
净重(Kg)	A 型, 波导输出	约 0.15
	C 型, 2.4mm-50K 输出	约 0.18
	C 型, 1.85mm-50K 输出	约 0.18

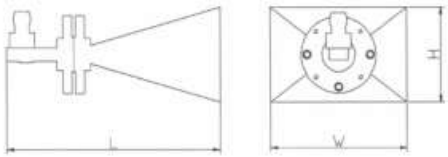
外形图 (尺寸: mm)

A 型



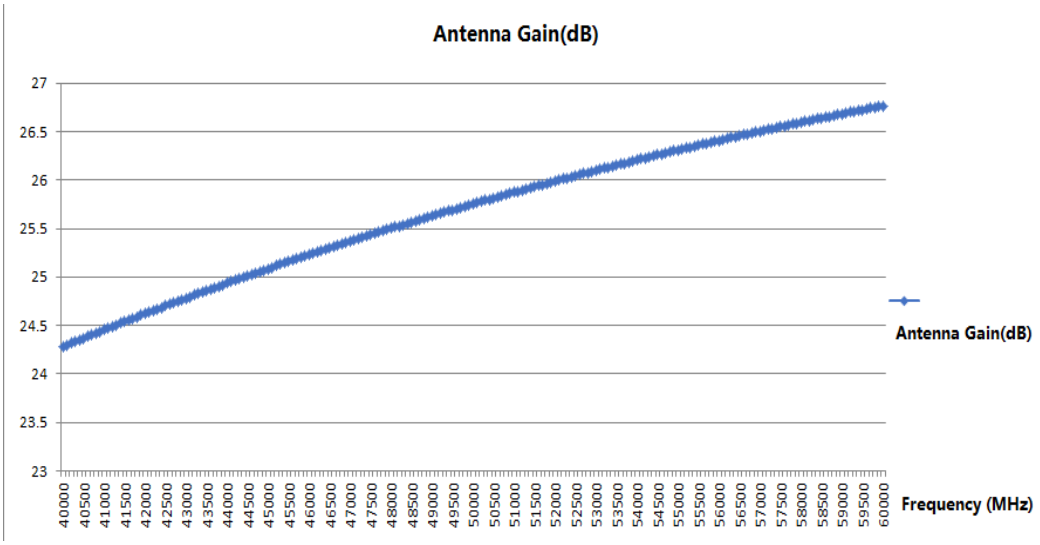
宽 x 高 x 长: 49x41x130

C 型



宽 x 高 x 长: 49x41x157

英联微波 第 1 页 / 共 7 页
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址:www.ainfoinc.com
成都 电话: 028-8519-2786 或 028-8519-3047 传真: 028-8519-3068 www.ainfoinc.cn
测试报告仅供参考。评情请咨询: Sales@ainfoinc.com



Standard Gain Horn （40GHz-60GHz）	LB-19-25	J202024087	A-INFO	2024-01-14	3 years

A-INFO 英联微波

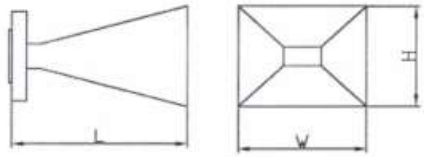
LB-19-25
40.0 - 60.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	A 型, 波导输出	40.0 - 60.0
	C 型, 2.4mm-50K 输出	40.0 - 50.0
	C 型, 1.85mm-50K 输出	40.0 - 60.0
增益(dB)	25 典型值	
驻波	1.6 最大值	
3dB 波束宽度(°)	10 典型值	
波导型号	BJ500(WR19)	
材料	铜	
输出形式	A 型 FUGP500	
	C 型 2.4mm-50K 或 1.85mm-50K	
尺寸(mm) 宽 x 高 x 长	A 型, 波导输出	49x41x130
	C 型, 2.4mm-50K 输出	49x41x155
	C 型, 1.85mm-50K 输出	49x41x157
净重(Kg)	A 型, 波导输出	约 0.15
	C 型, 2.4mm-50K 输出	约 0.18
	C 型, 1.85mm-50K 输出	约 0.18

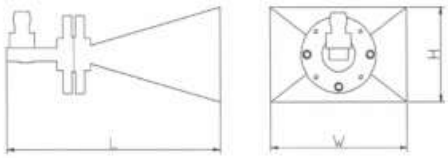
外形图 (尺寸: mm)

A 型



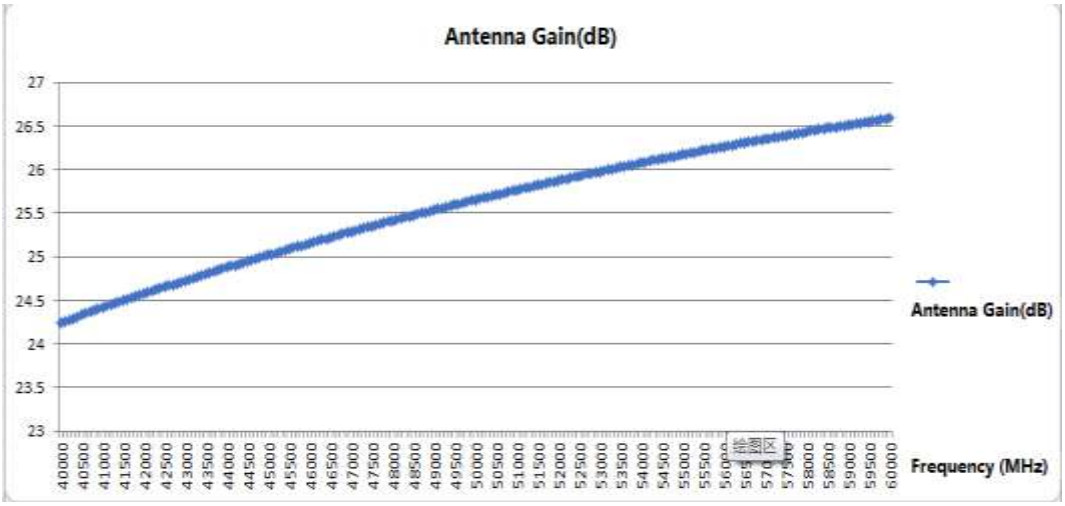
宽 x 高 x 长: 49x41x130

C 型



宽 x 高 x 长: 49x41x157

英联微波 第 1 页 / 共 7 页
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址:www.ainfoinc.com
成都 电话: 028-8519-2786 或 028-8519-3047 传真: 028-8519-3068 www.ainfoinc.cn
测试报告仅供参考。评情请咨询: Sales@ainfoinc.com



Standard Gain Horn （50GHz-75GHz）	LB-15-25	J202062019	A-INFO	2023-12-14	3 years

A-INFO 英联微波

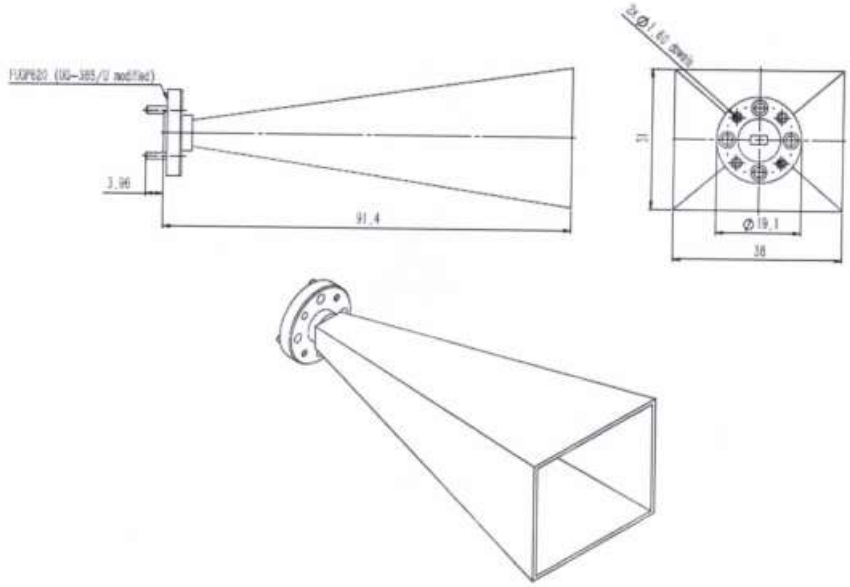
LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	A 型，波导输出	50.0 - 75.0
	C 型，1.85mm-50K 输出	50.0 - 65.0
增益(dB)	25 典型值	
驻波	1.6 最大值	
3dB 波束宽度(°)	10 典型值	
波导型号	BJ620(WR15)	
材料	铜	
输出形式	A 型 FUGP620	
	C 型 1.85mm-50K	
尺寸(mm) 宽 x 高 x 长	A 型，波导输出	38x31x91.4
	C 型，1.85mm-50K 输出	38x32.6x118.4
净重(Kg)	A 型，波导输出	约 0.07
	C 型，1.85mm-50K 输出	约 0.10

外形图 (尺寸: mm)

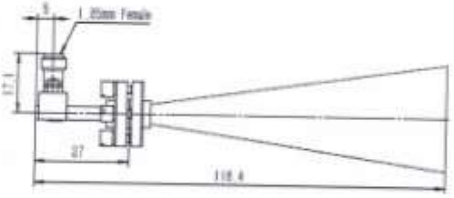
A 型(FUGP620 法兰输出)

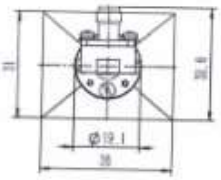


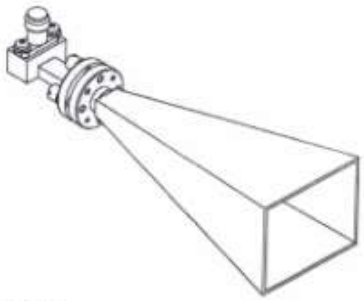
A-INFO 英联微波

LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

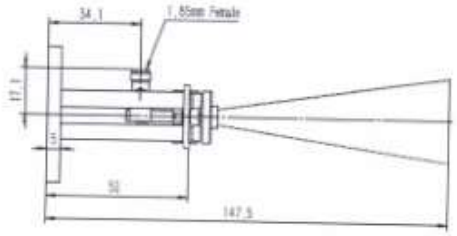
C 型(1.85mm-50K 输出)

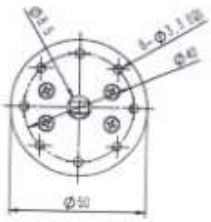


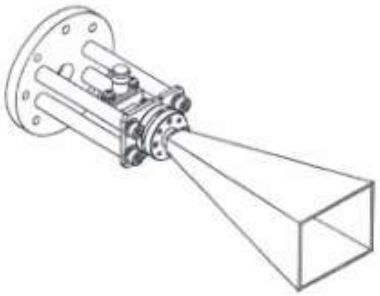




C 型(1.85mm-50K 输出，配圆形背夹)







英联微波
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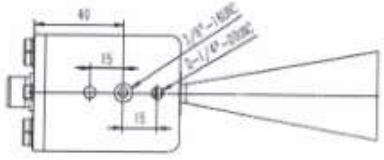
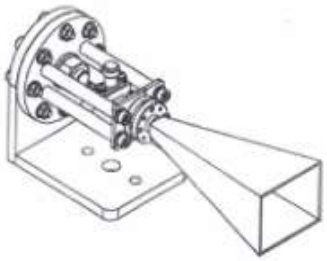
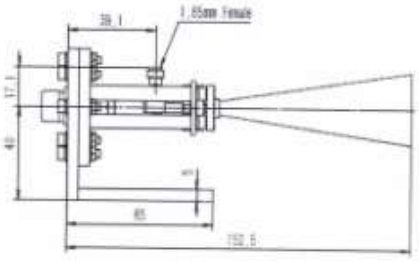
A-INFO 英联微波

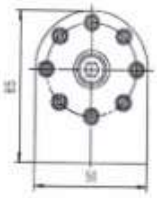
LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

C 型(1.85mm-50K 输出，配 L 形背夹)

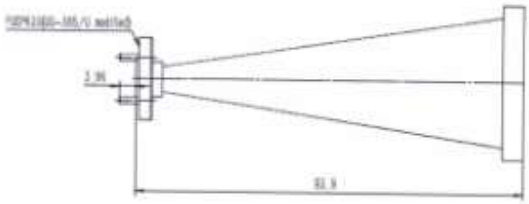


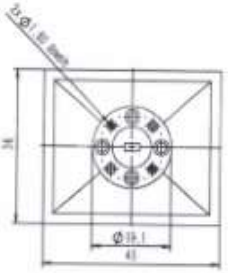


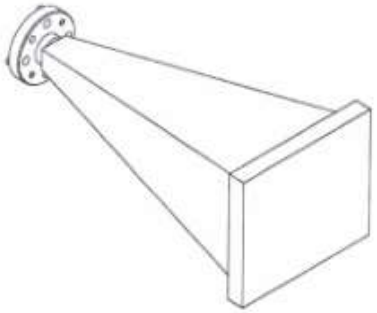




A 型(配天线罩)



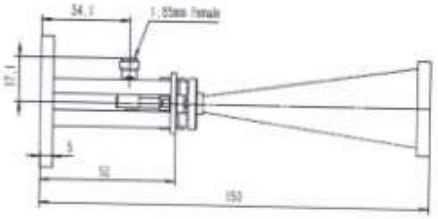


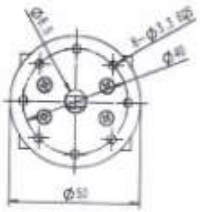


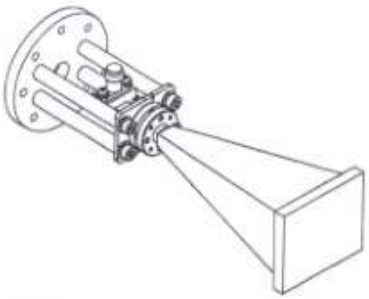
A-INFO 英联微波

LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

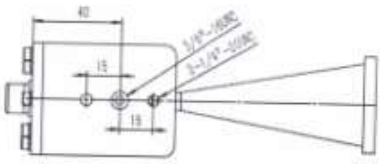
C 型(1.85mm-50K 输出，配圆形背夹和天线罩)

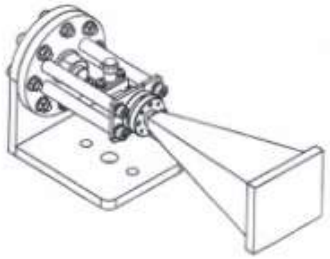


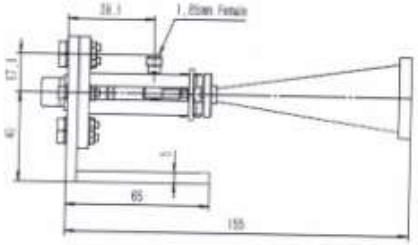


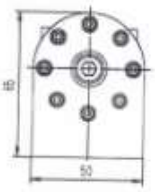


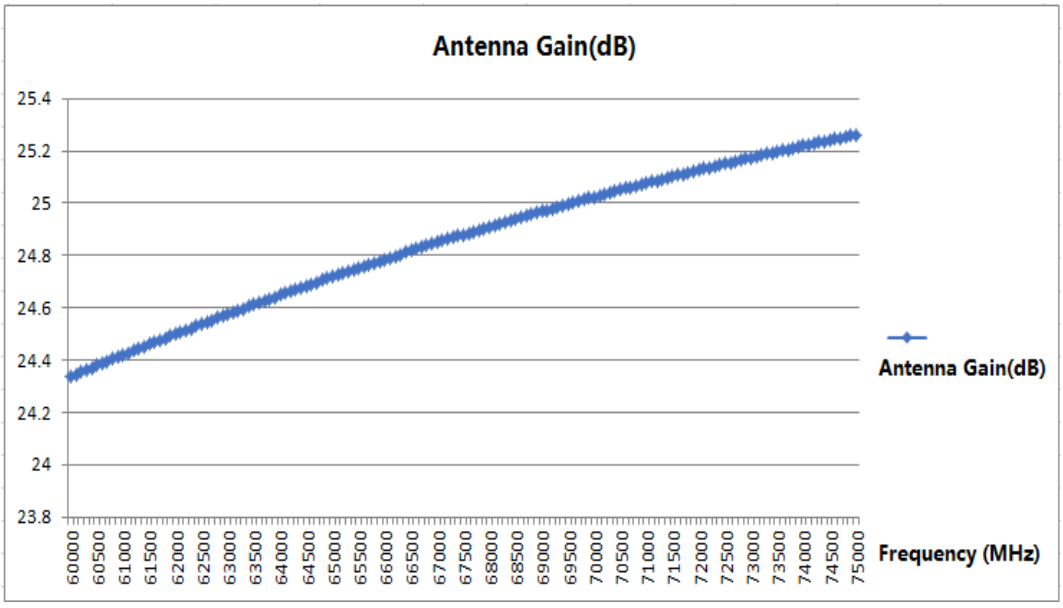
C 型(1.85mm-50K 输出，配 L 形背夹和天线罩)











Standard Gain Horn （60GHz-90GHz）	LB-12-25	J202062912	A-INFO	2024-02-17	3 years

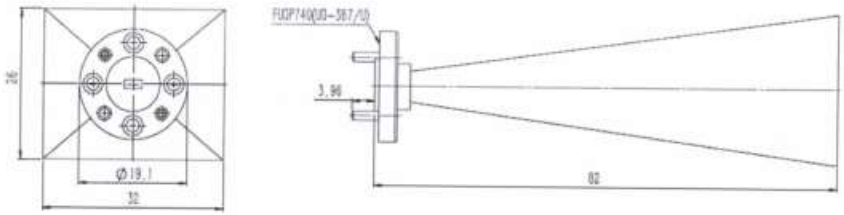
A-INFO 英联微波

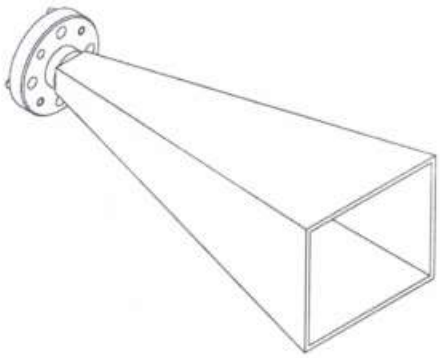
LB-12-25
60.0 - 90.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	60.0 - 90.0
增益(dBi)	25 典型值
驻波	1.6 最大值
3dB 波束宽度(°)	10 典型值
波导型号	BJ740(WR12)
材料	铜
输出形式	A 型: FUGP740
尺寸(mm) 宽 x 高 x 长	A 型: 32x26x82
净重(Kg)	A 型: 约 0.05

外形图 (尺寸: mm)





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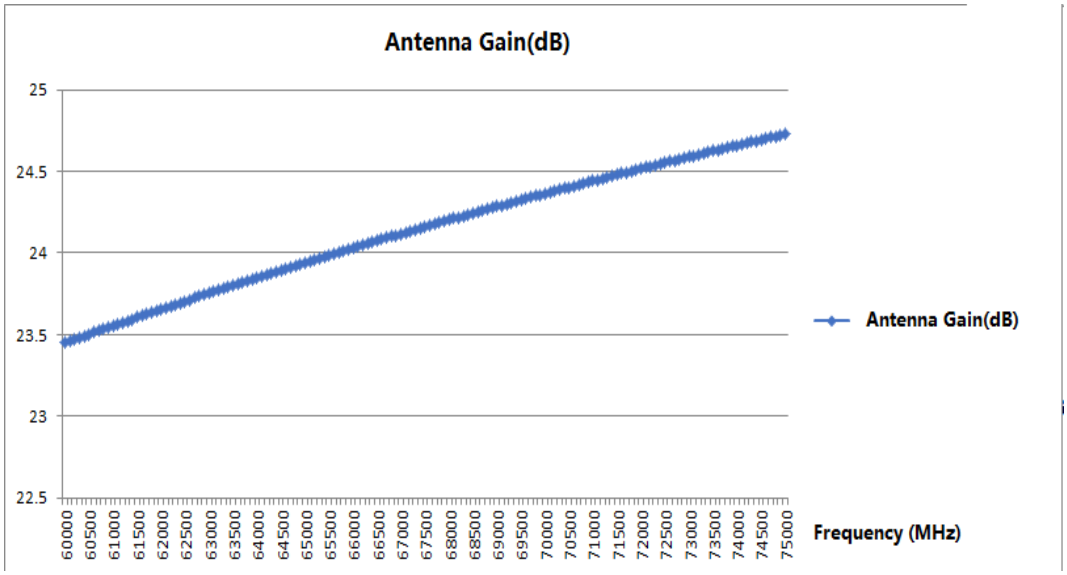


Standard Gain Horn （75GHz-110GHz）	LB-10-25	J202023231	A-INFO	2024-01-27	3 years

A-INFO 英联微波

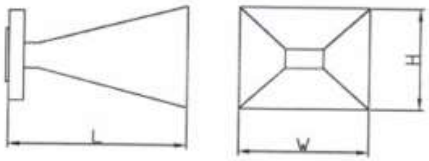
LB-10-25
75.0 - 110.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	75.0 - 110.0
增益(dB)	25 典型值
驻波	1.6 最大值
3dB 波束宽度(°)	10 典型值
波导型号	BJ900(WR10)
材料	铜
输出形式	A 型: FUGP900
尺寸(mm) 宽 x 高 x 长	A 型: 28x22x70
净重(Kg)	A 型: 约 0.05

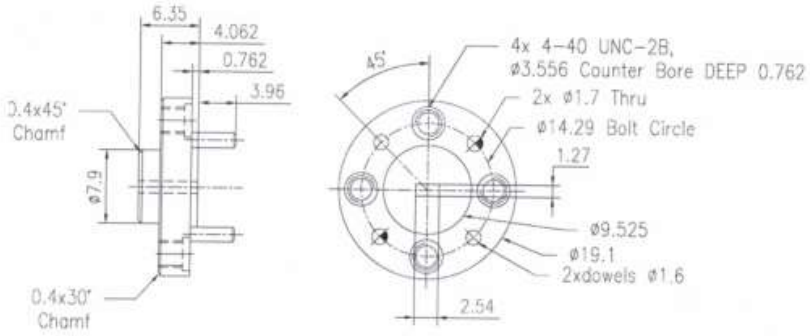
外形图 (尺寸: mm)

A 型



宽 x 高 x 长: 28x22x70

法兰外形图 (尺寸: mm)



FUGP900
(equivalent to UG-387/U modified)

英联微波
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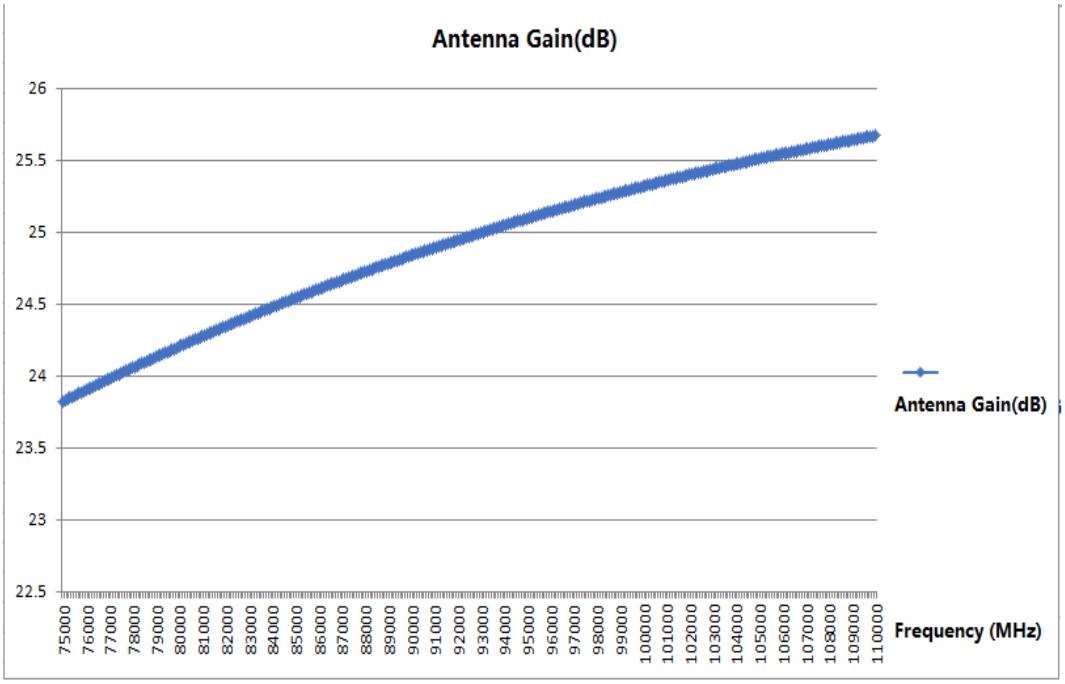
成都 电话: 028-8519-2786 或 028-8519-3047 传真: 028-8519-3068 www.ainfoinc.cn



Standard Gain Horn（75GHz-110GHz）	LB-10-25	J202023232	A-INFO	2024-01-27	3 years

A-INFO 英联微波

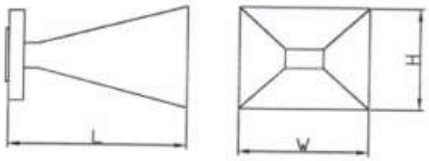
LB-10-25
75.0 - 110.0GHz 标准增益喇叭天线

技术指标

频率(GHz)	75.0 - 110.0
增益(dB)	25 典型值
驻波	1.6 最大值
3dB 波束宽度(°)	10 典型值
波导型号	BJ900(WR10)
材料	铜
输出形式	A 型: FUGP900
尺寸(mm) 宽 x 高 x 长	A 型: 28x22x70
净重(Kg)	A 型: 约 0.05

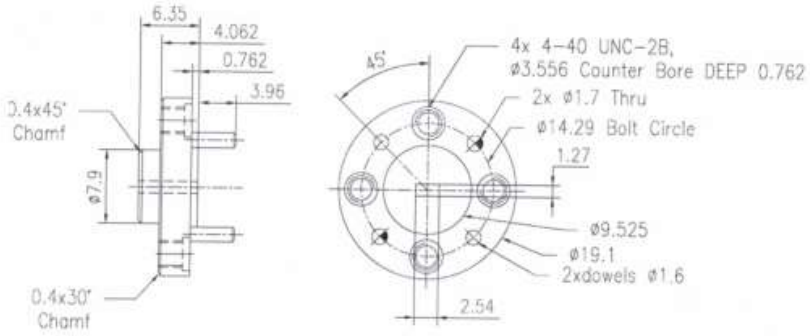
外形图 (尺寸: mm)

A 型



宽 x 高 x 长: 28x22x70

法兰外形图 (尺寸: mm)



FUGP900
(equivalent to UG-387/U modified)

英联微波
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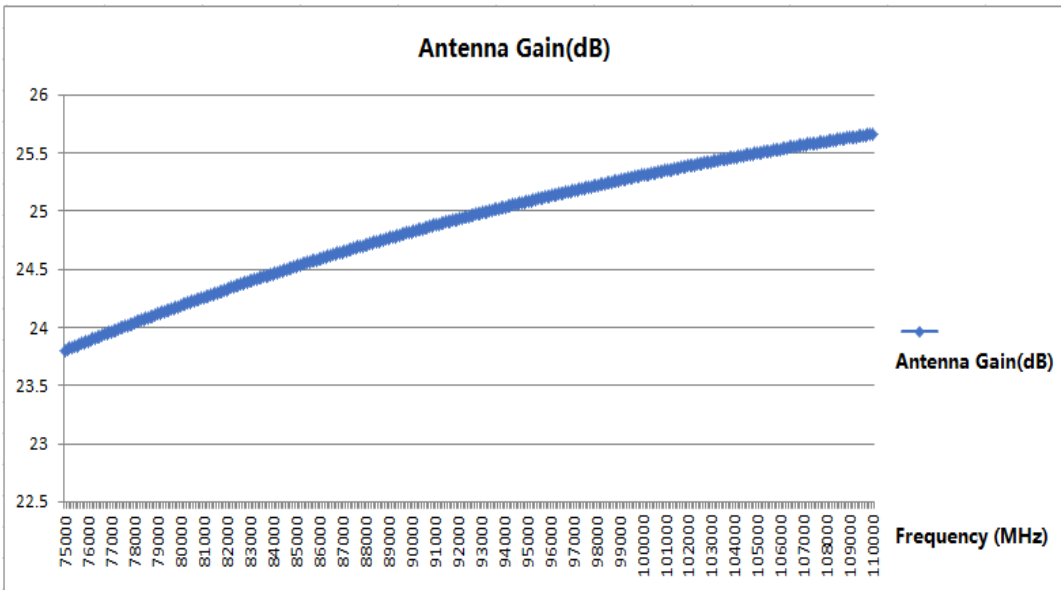
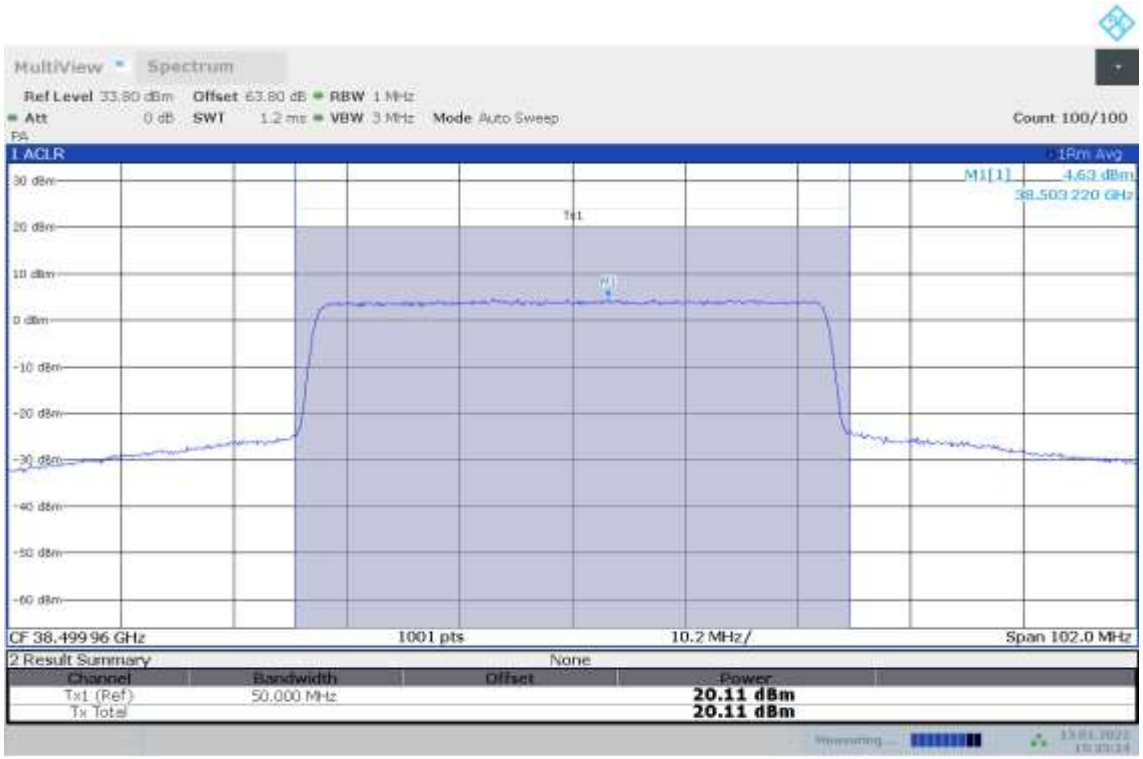


Annex D: Measurement Plots

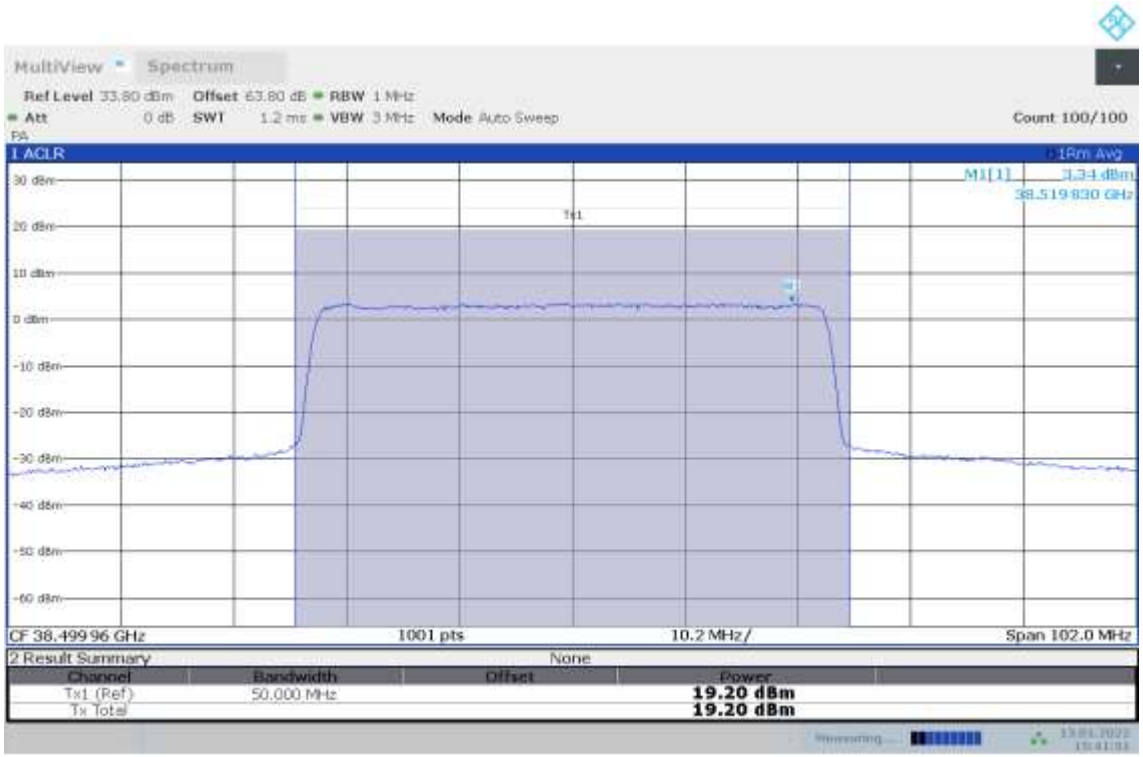
D.1 Radiated Output Power Plots

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	20.11	19.20	16.13

n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK

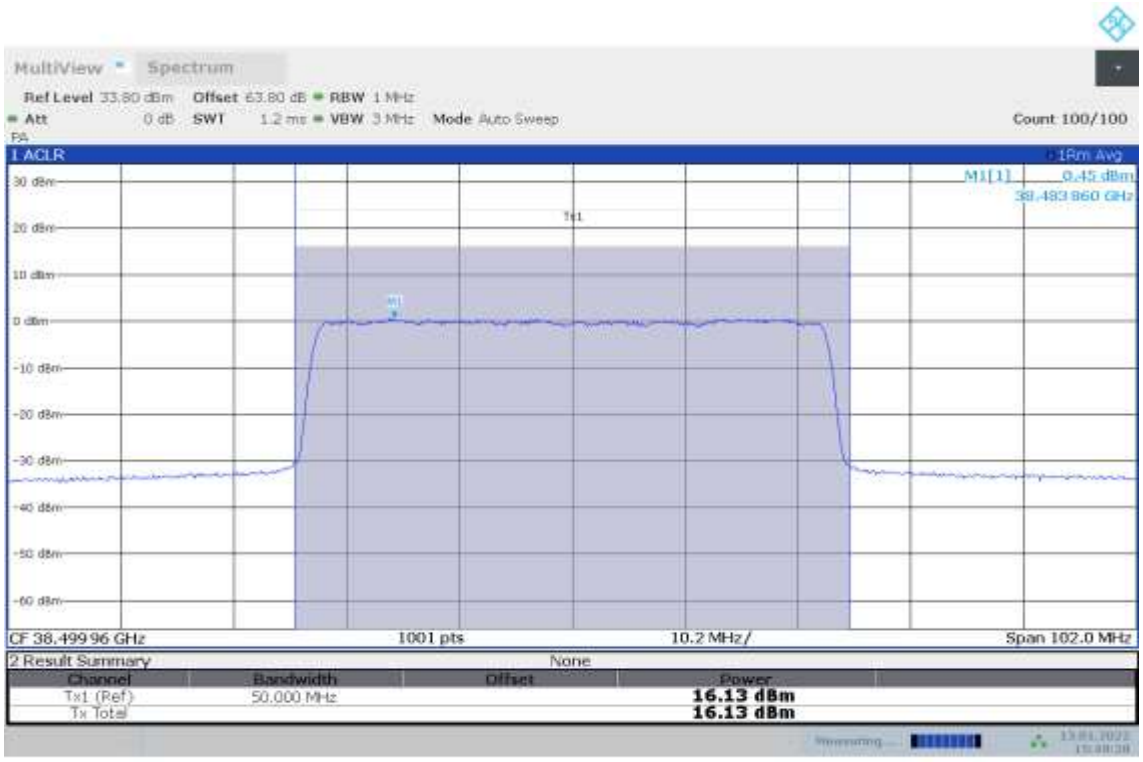


n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



15:41:51 13.01.2022

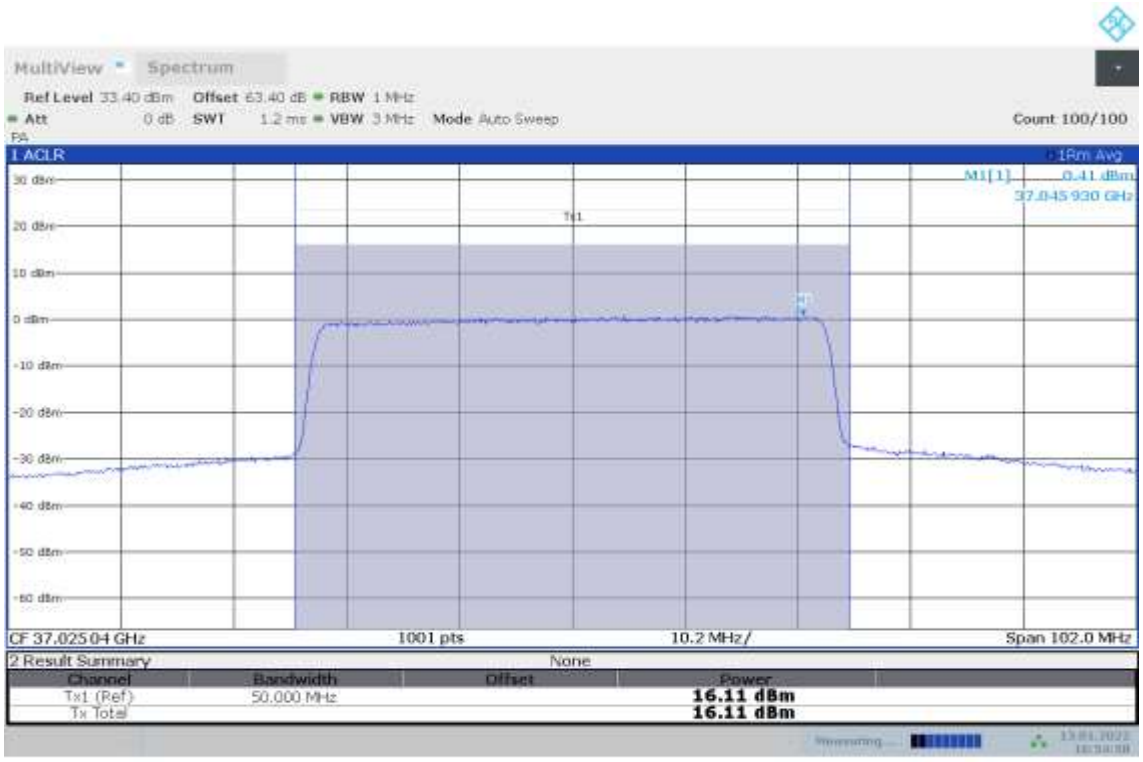
n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



15:49:28 13.01.2022

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	16.11	/	/

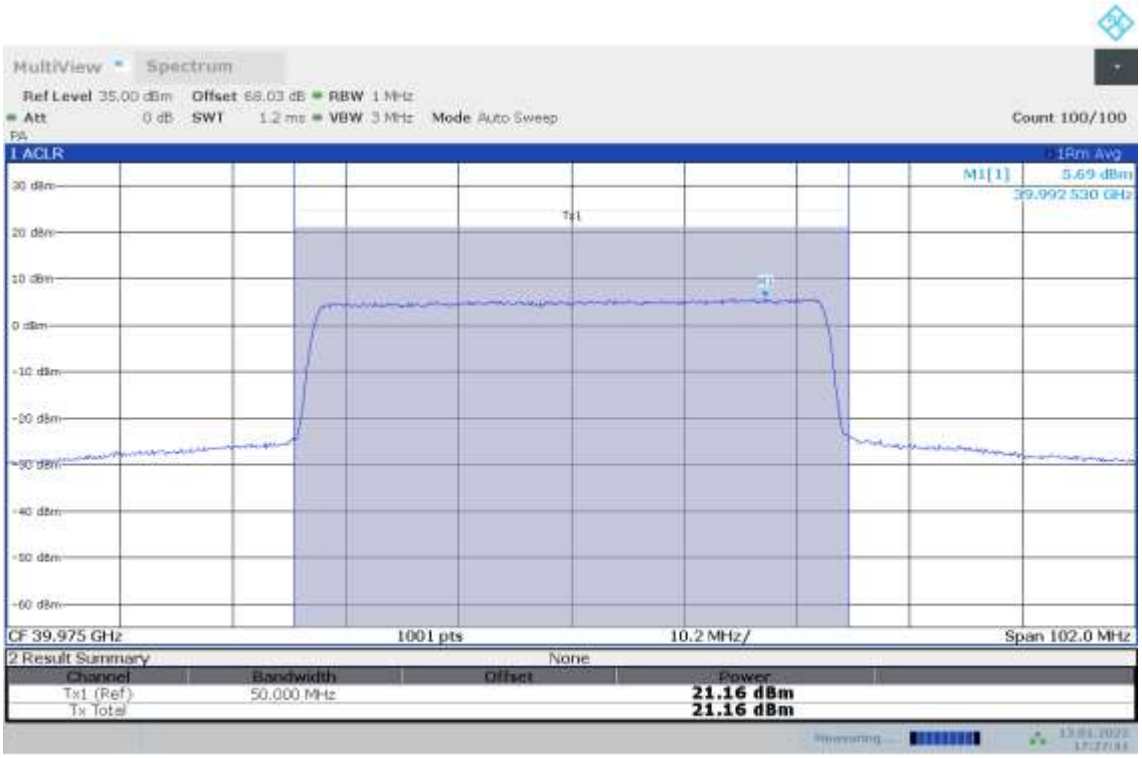
n260, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



16:54:59 13.01.2022

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	21.16	/	/

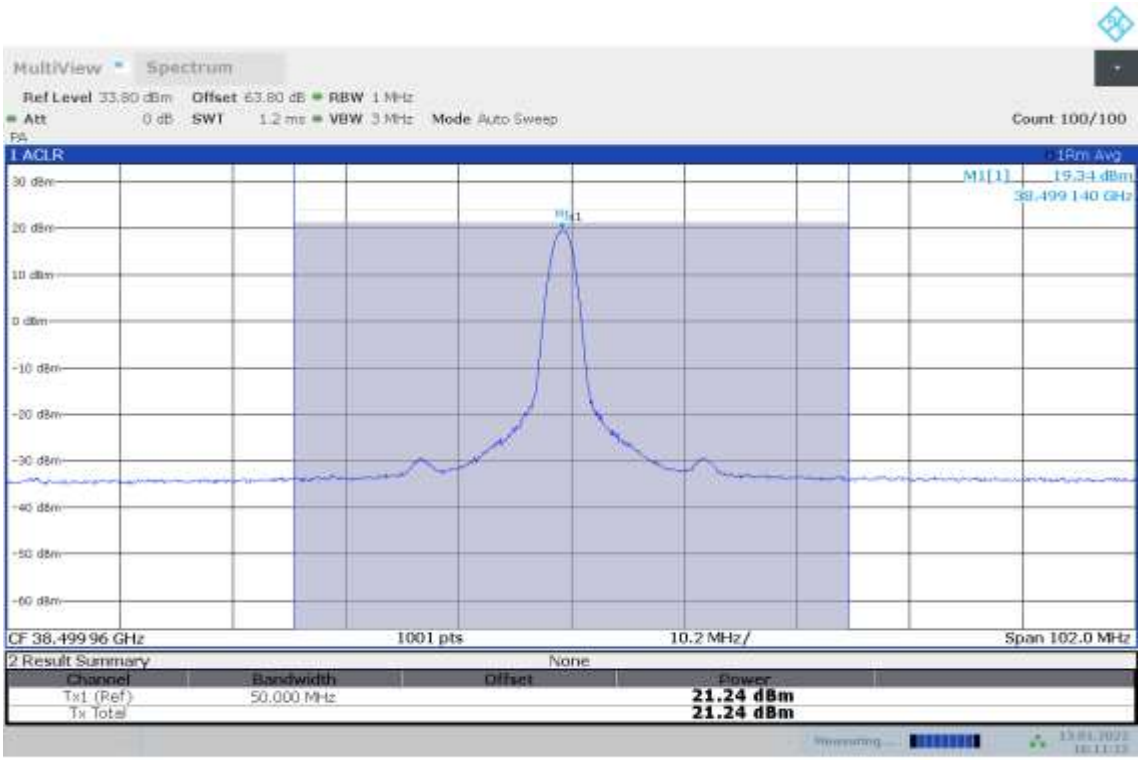
n260, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



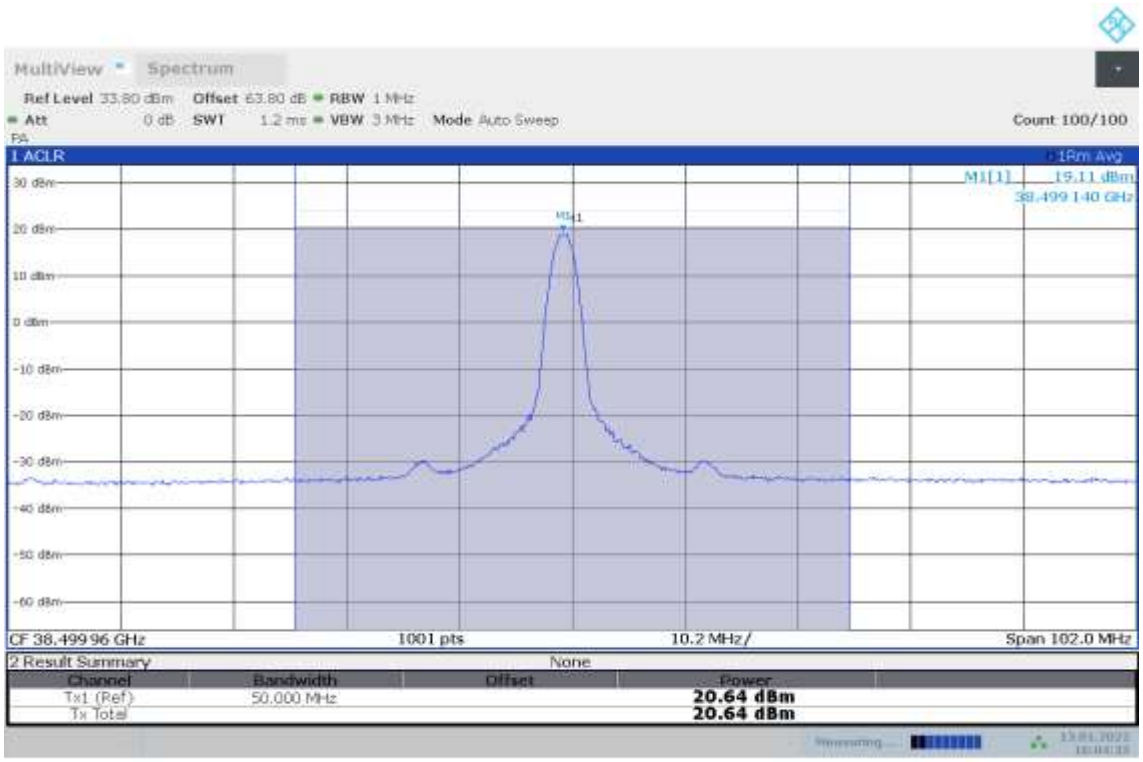
17:27:42 13.01.2022

n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	21.24	20.64	17.09

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK

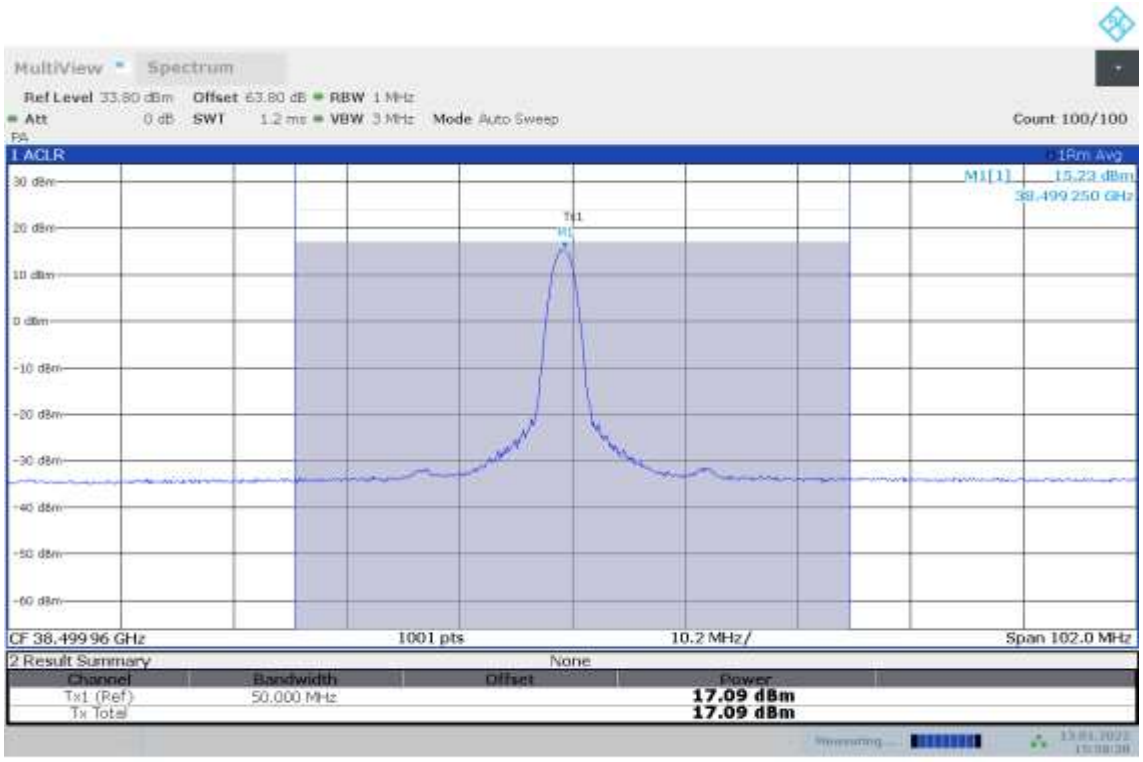


n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



16:04:36 13.01.2022

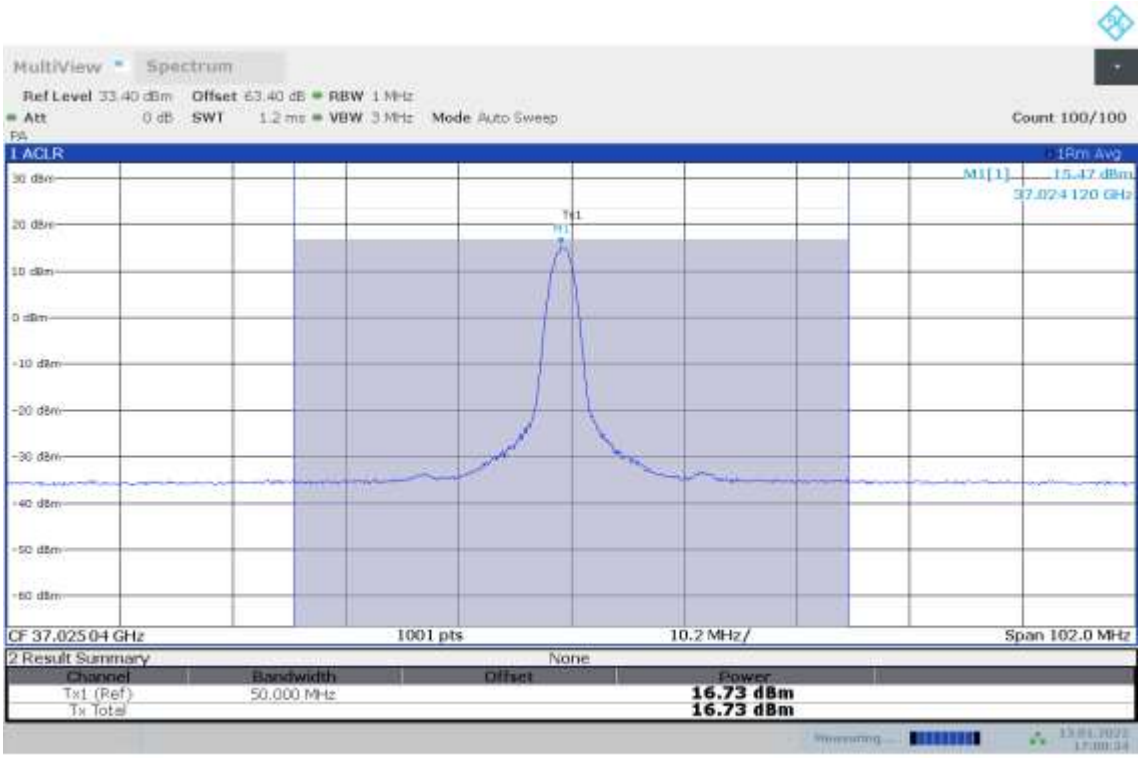
n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



15:58:39 13.01.2022

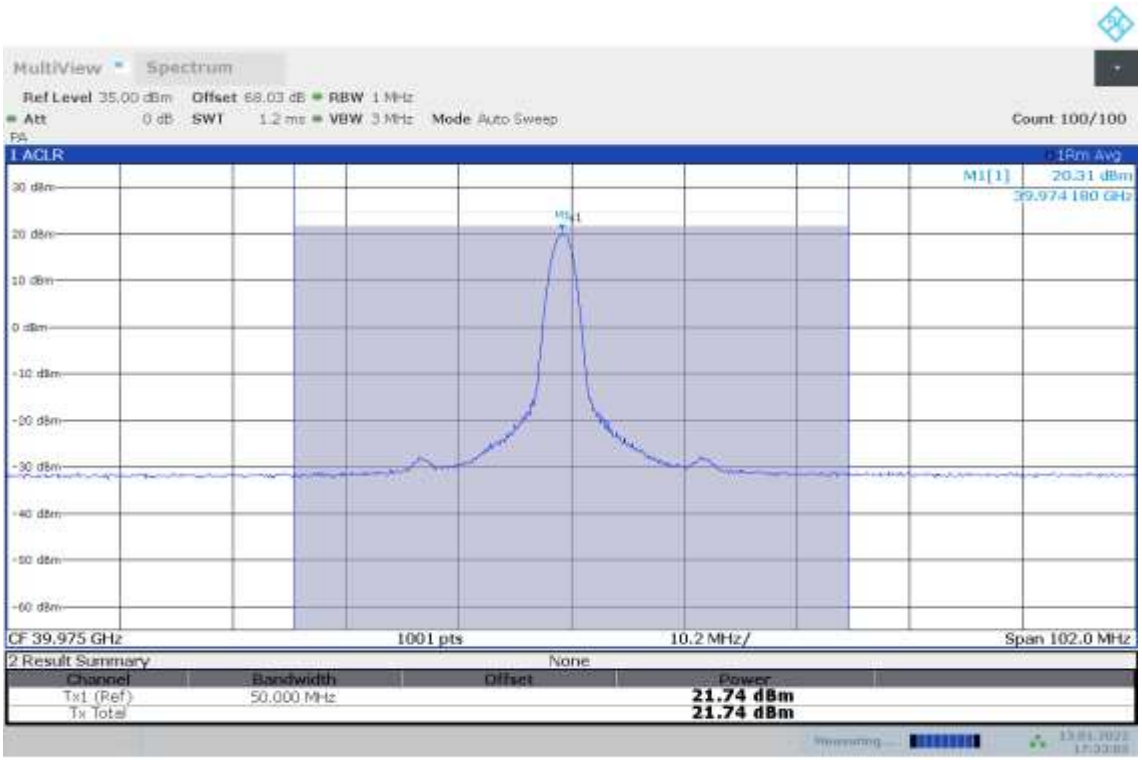
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	16.73	/	/

n260, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



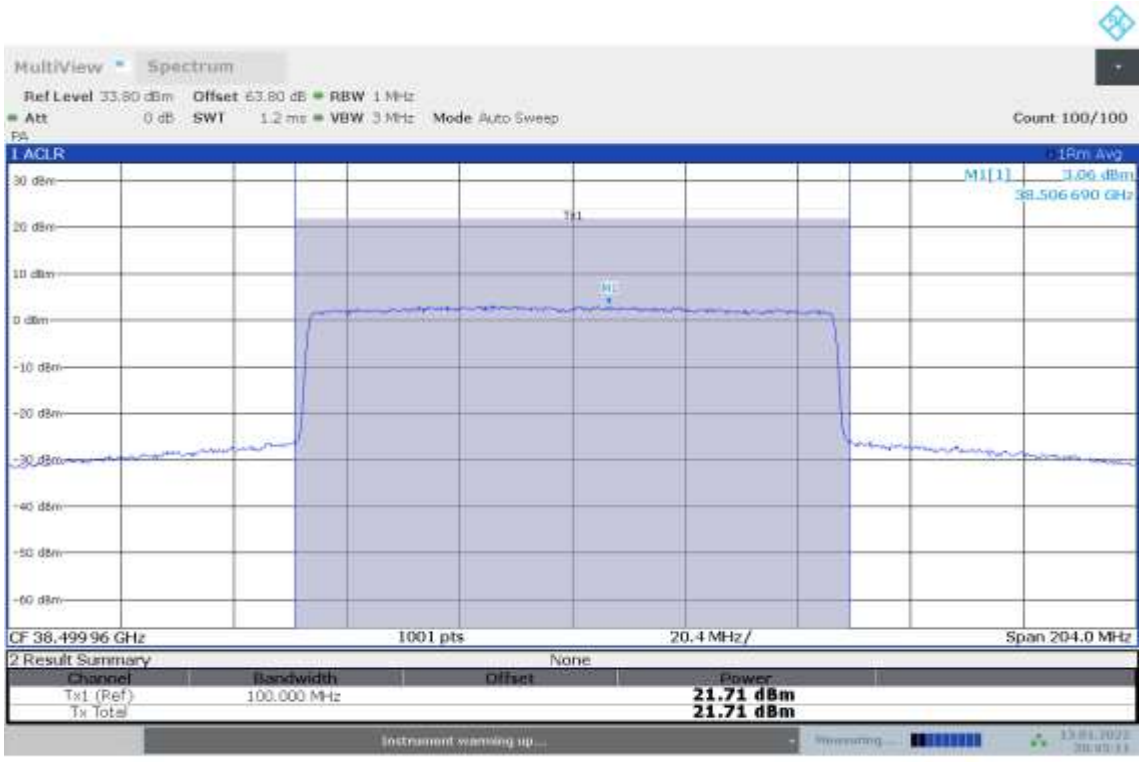
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	21.74	/	/

n260, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



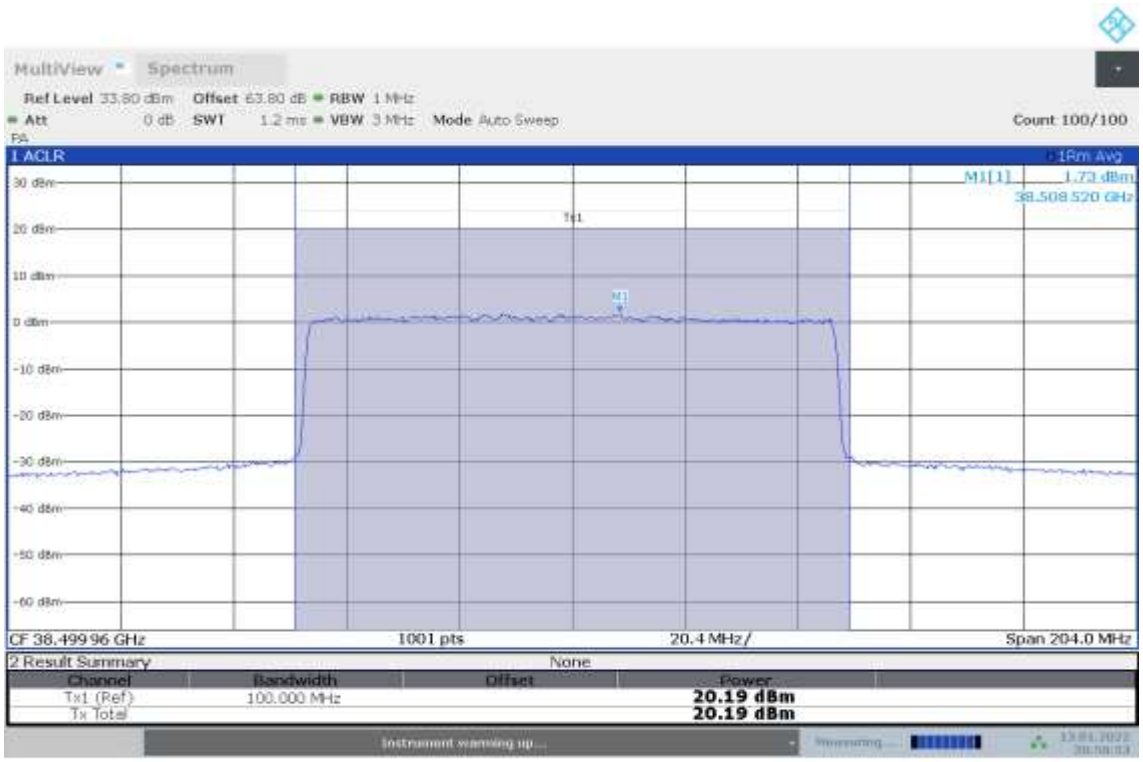
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	21.71	20.19	16.92

n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



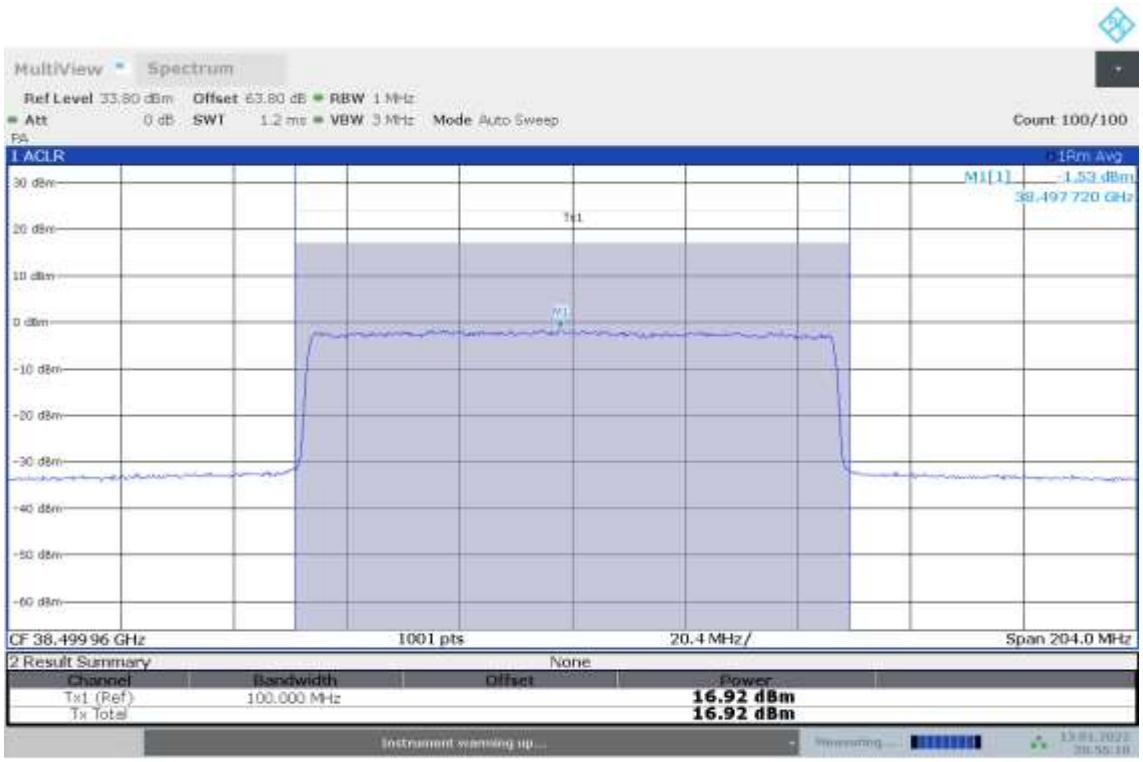
20:45:11 13.01.2022

n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



20:50:53 13.01.2022

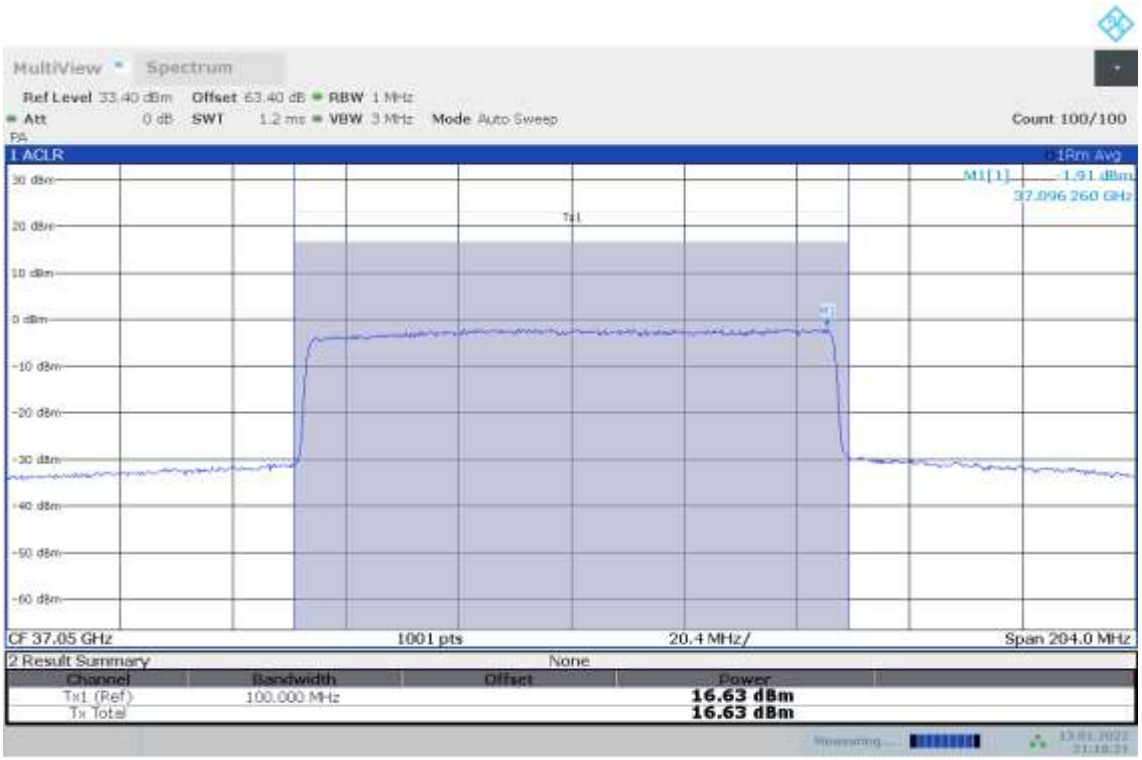
n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



20:56:11 13.01.2022

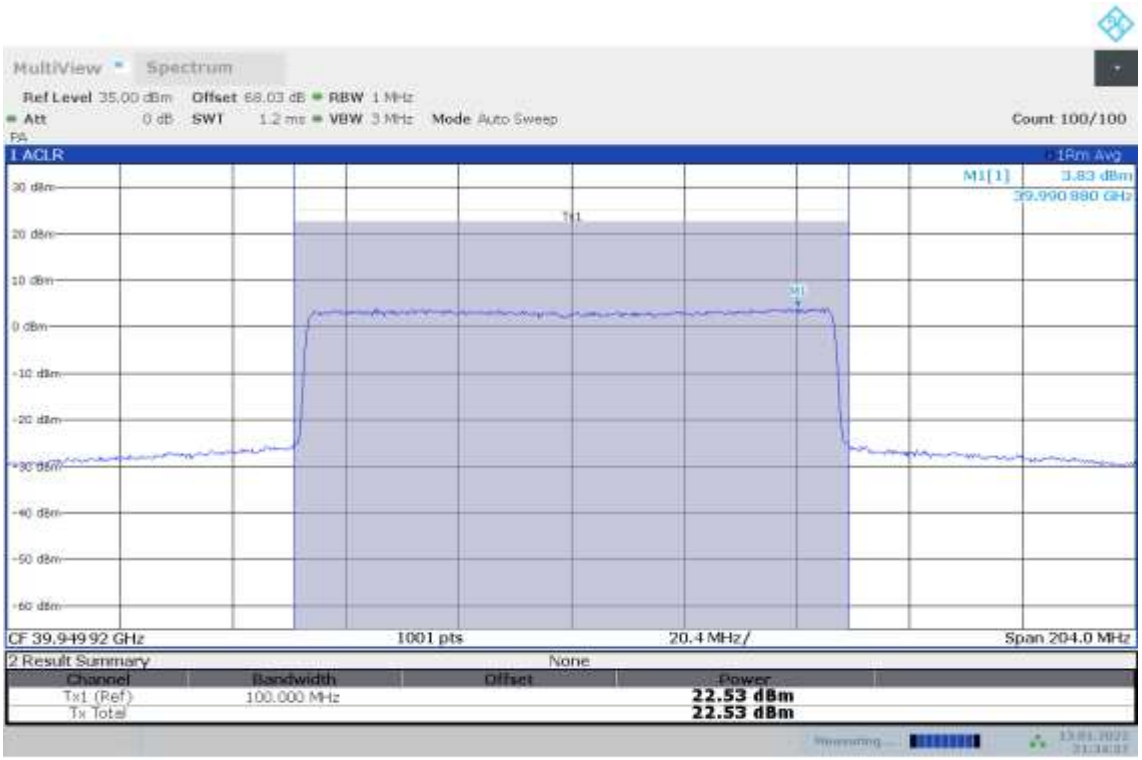
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	16.63	/	/

n260, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



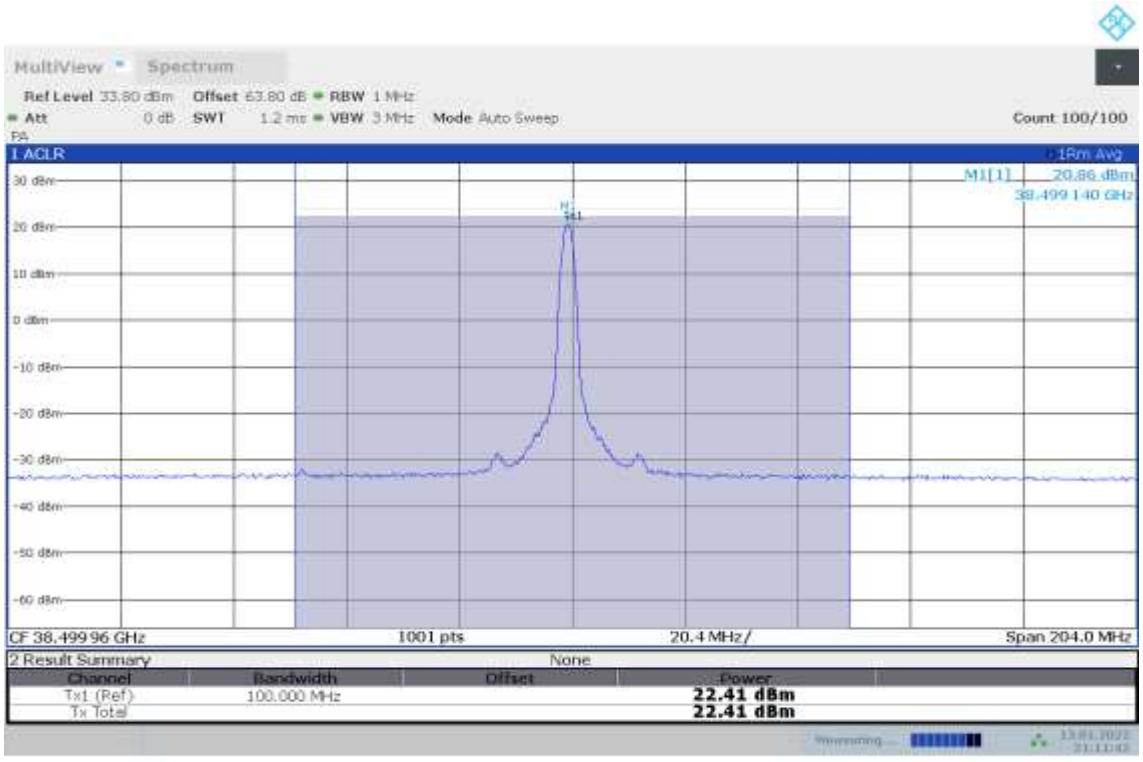
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	22.53	/	/

n260, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



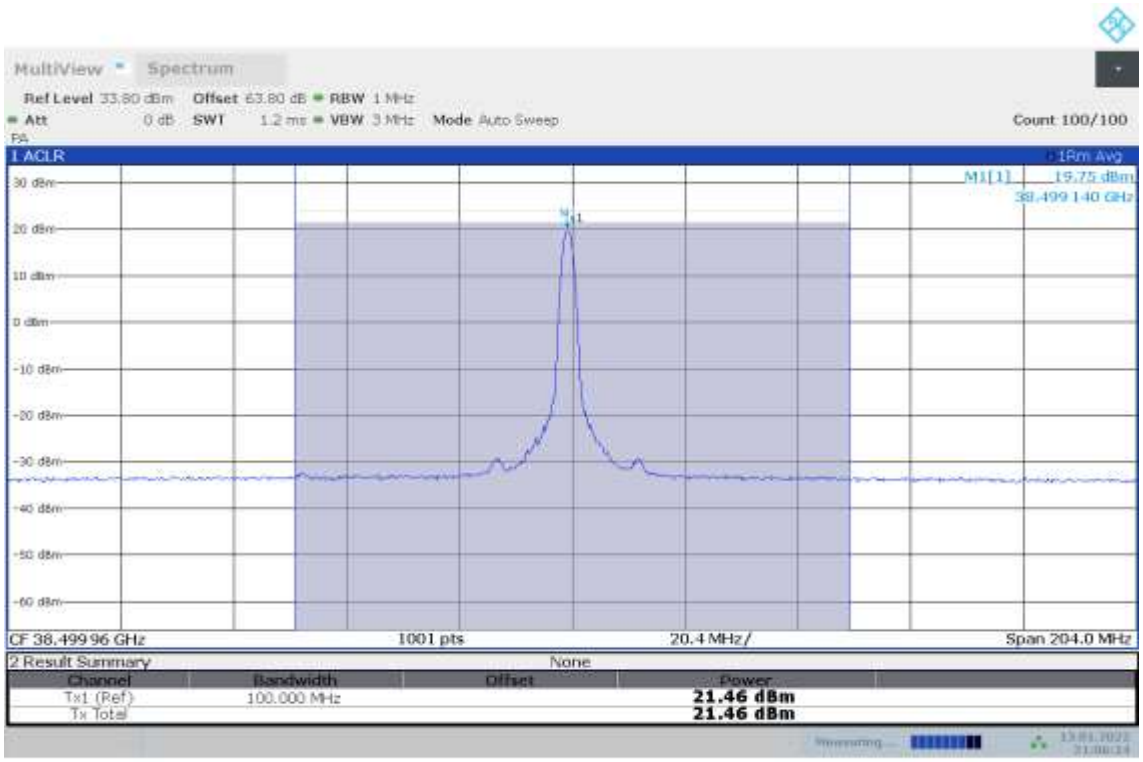
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	22.41	21.46	18.07

n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK



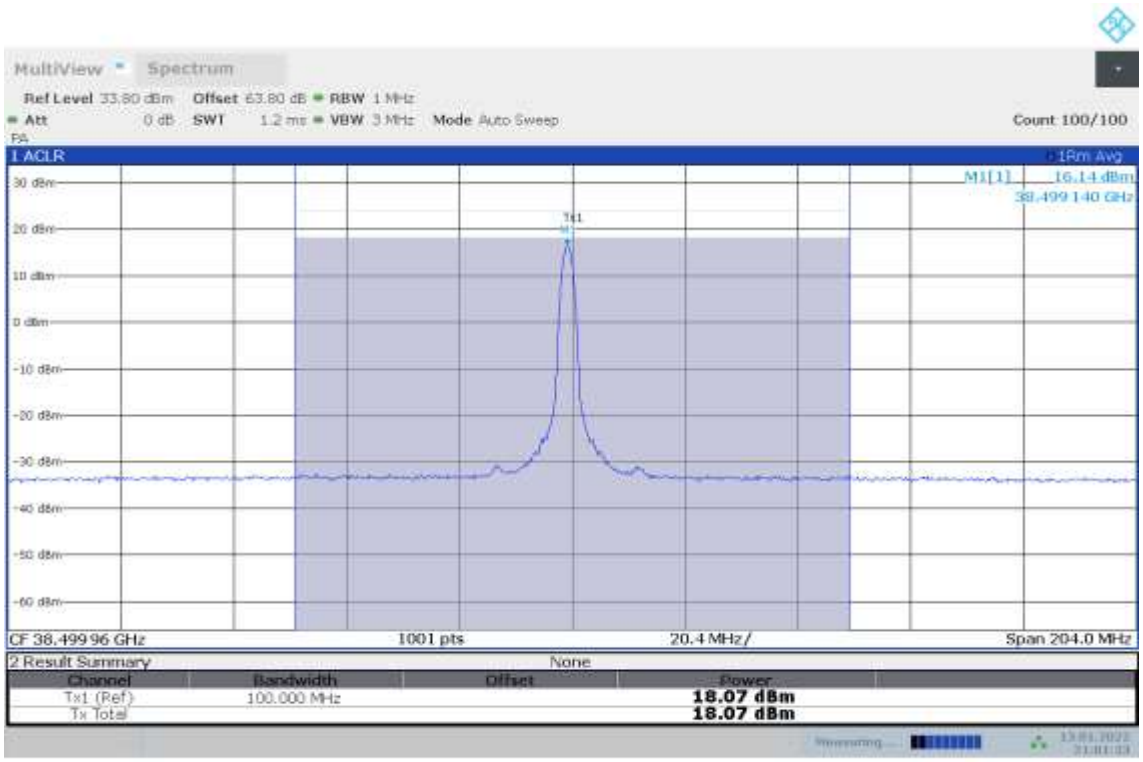
21:11:43 13.01.2022

n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



21:06:25 13.01.2022

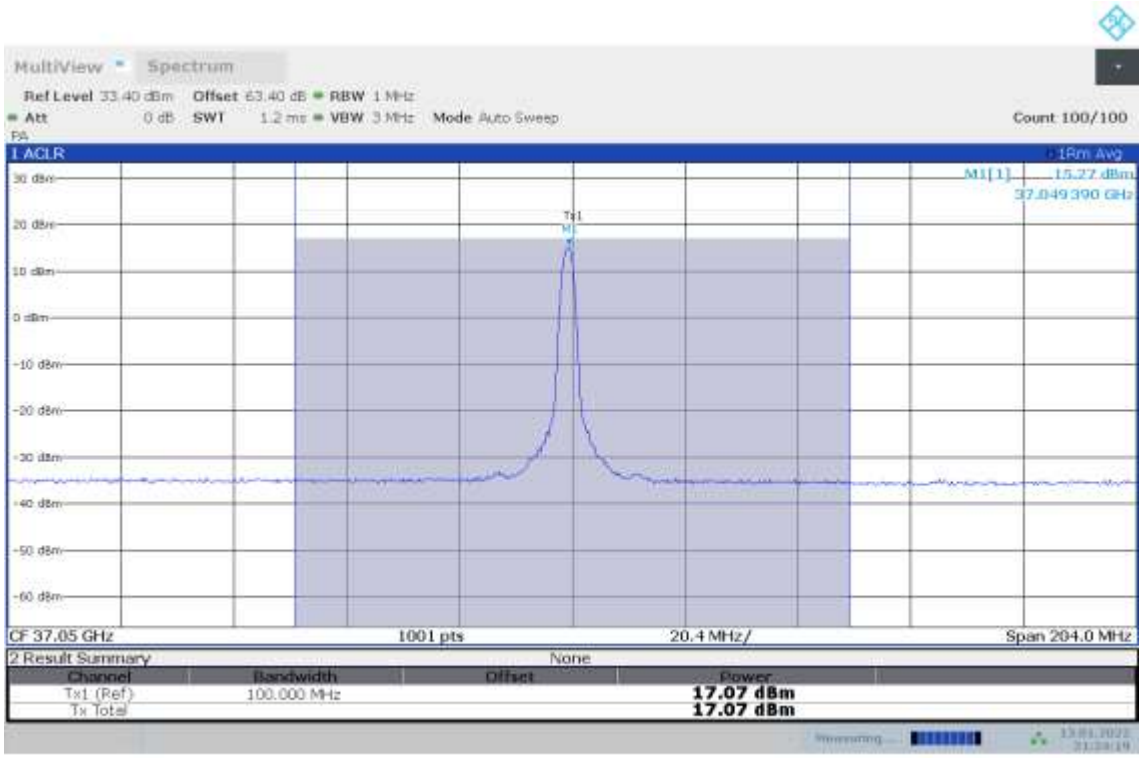
n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



21:01:34 13.01.2022

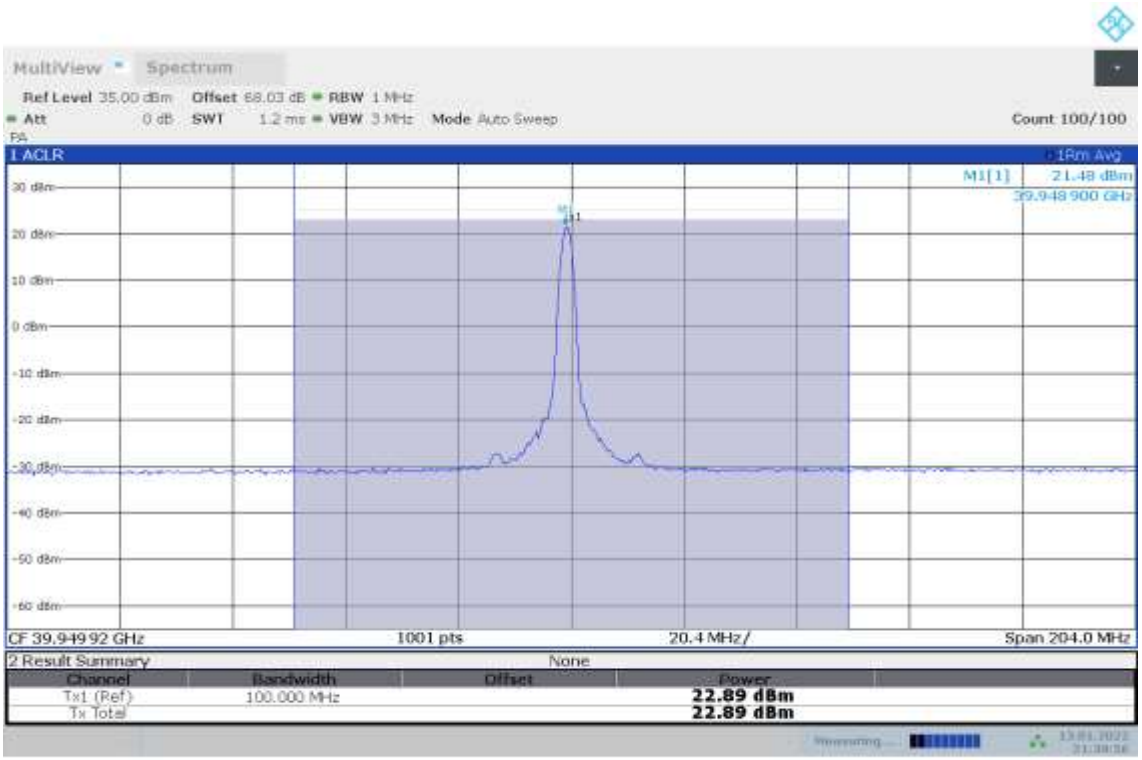
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	17.07	/	/

n260, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



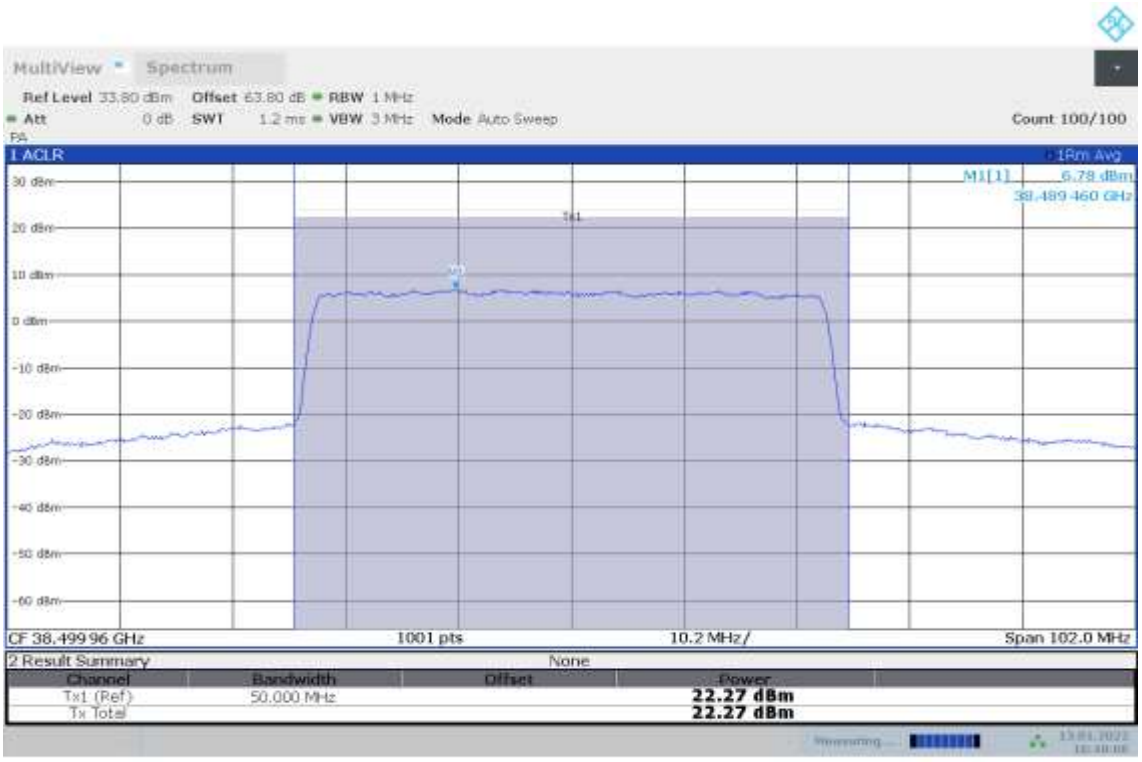
n260, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	22.89	/	/

n260, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK

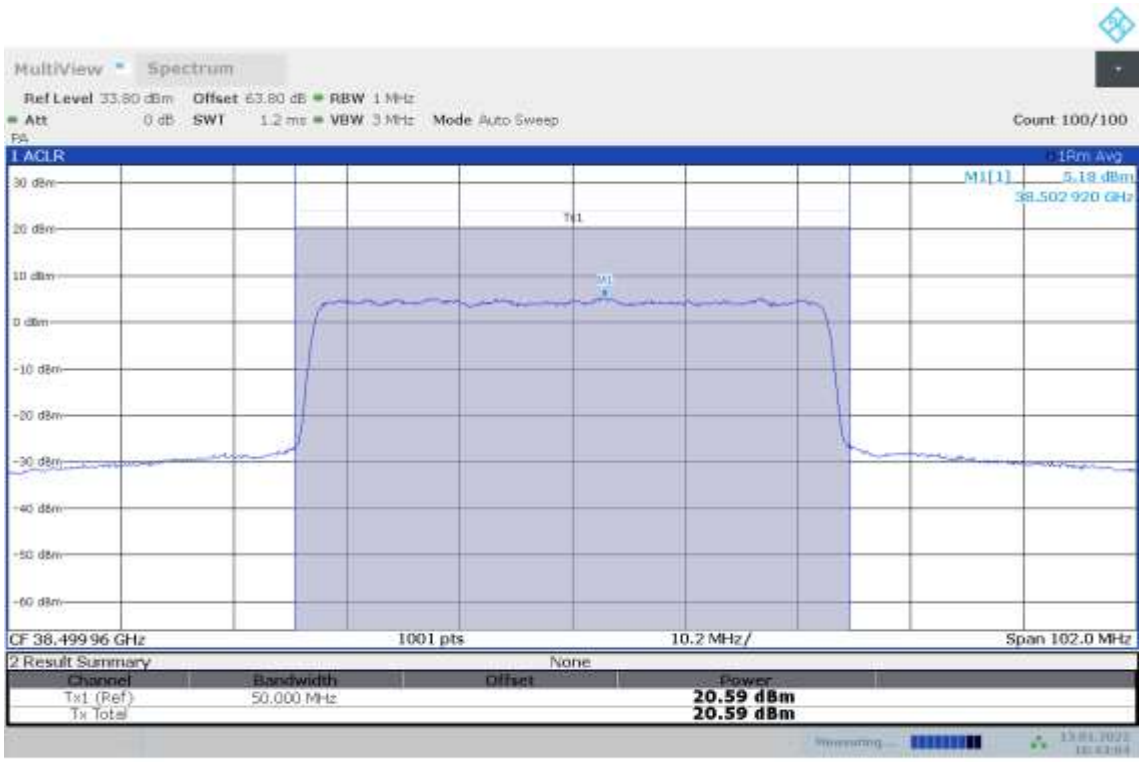


n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	22.27	20.59	17.45

n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK

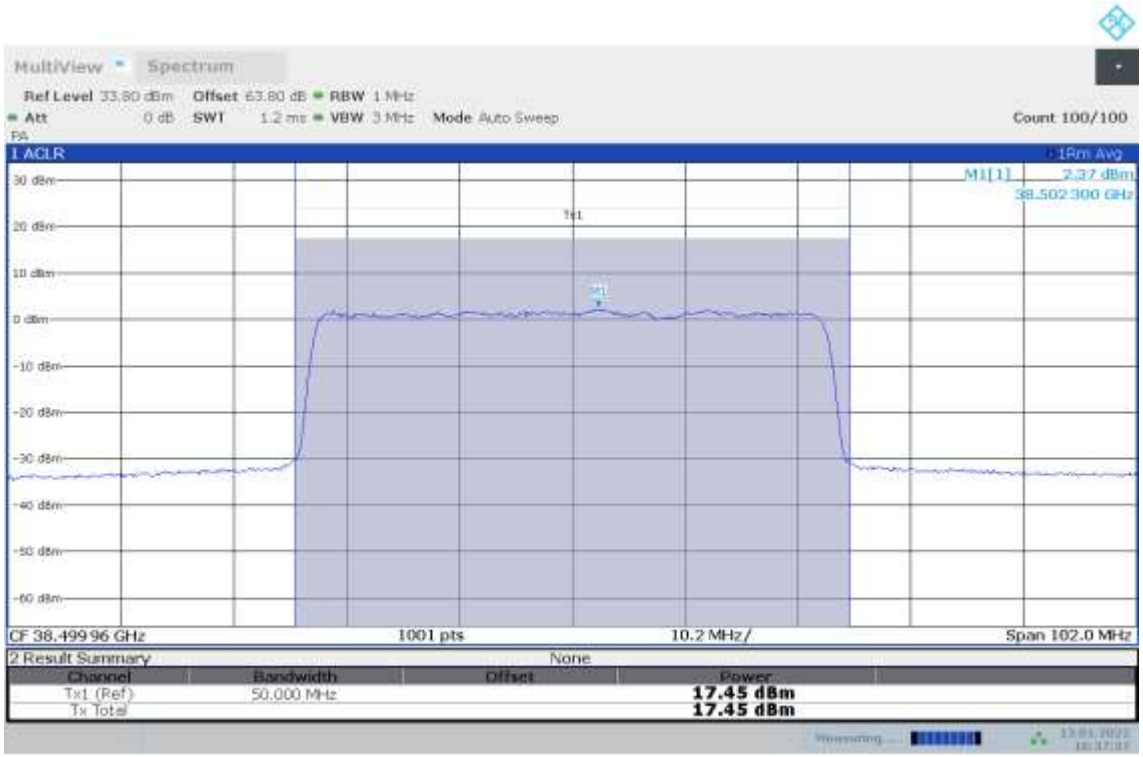


n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



16:43:05 13.01.2022

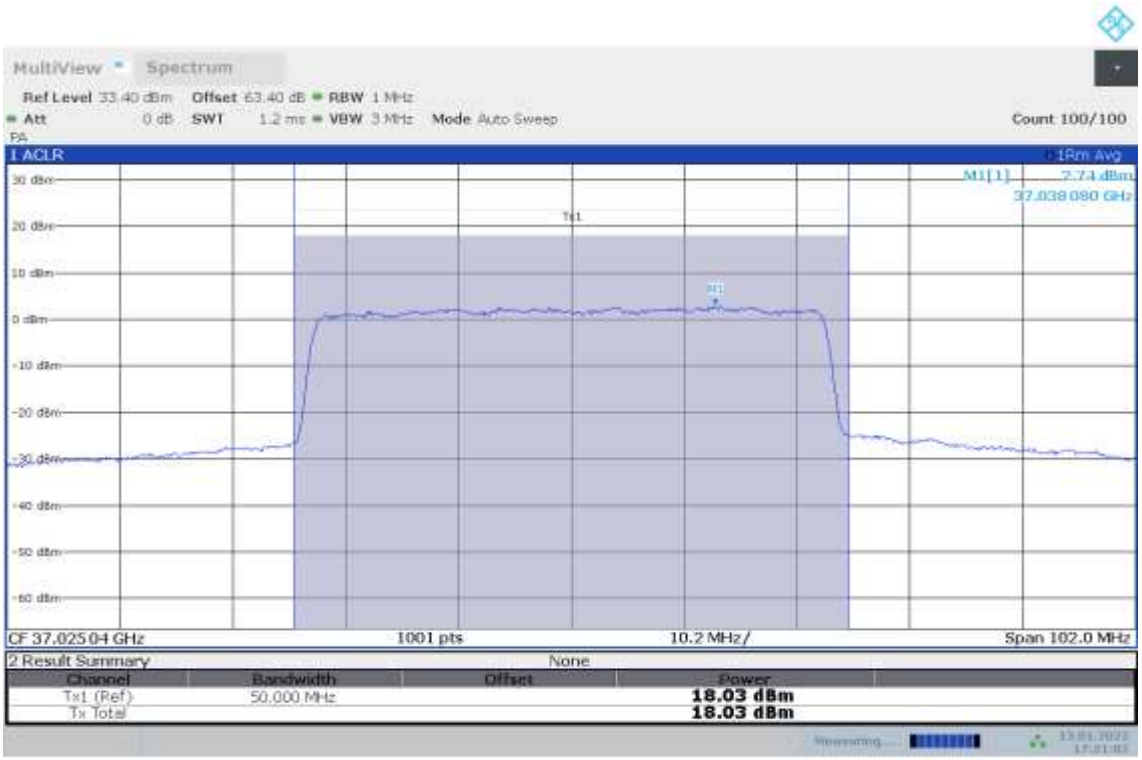
n260, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



16:37:57 13.01.2022

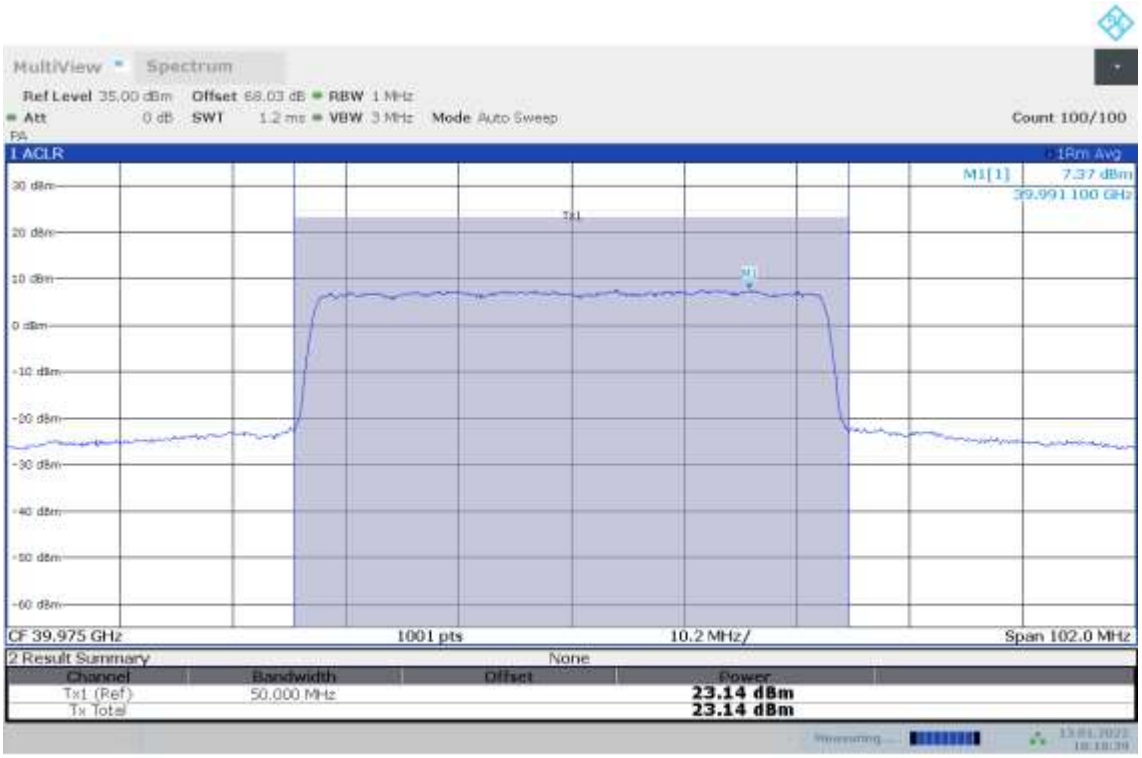
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	18.03	/	/

n260, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	23.14	/	/

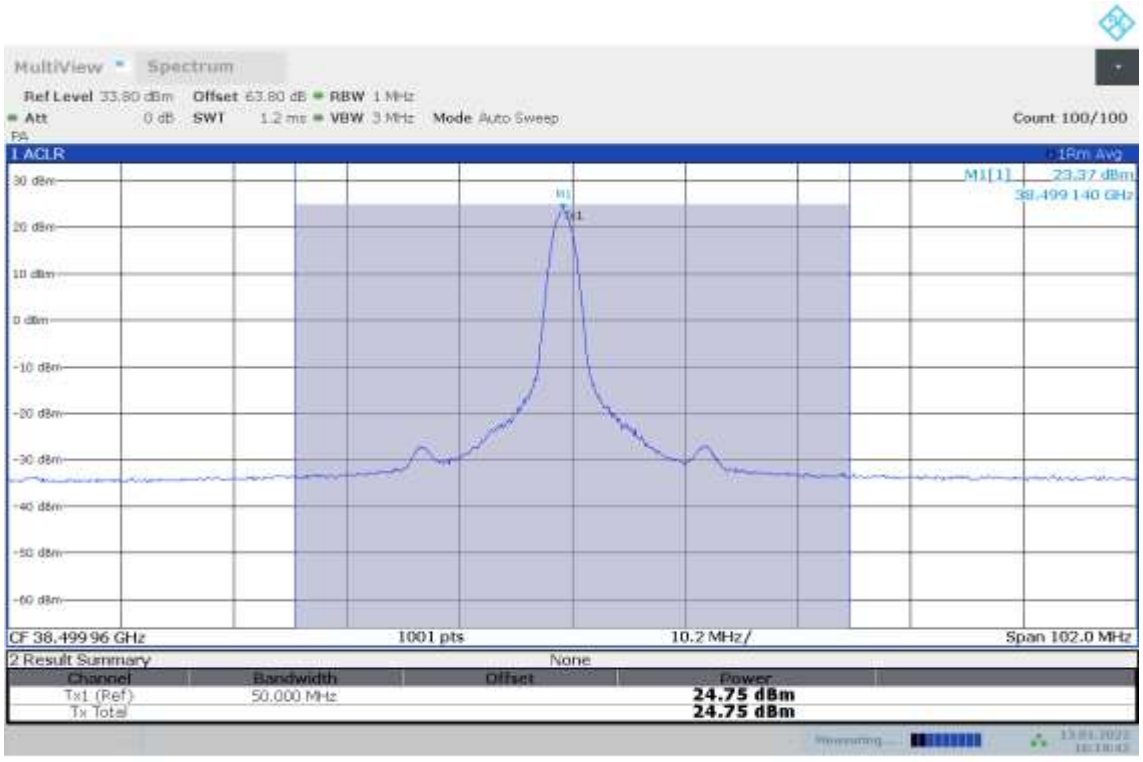
n260, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



18:18:40 13.01.2022

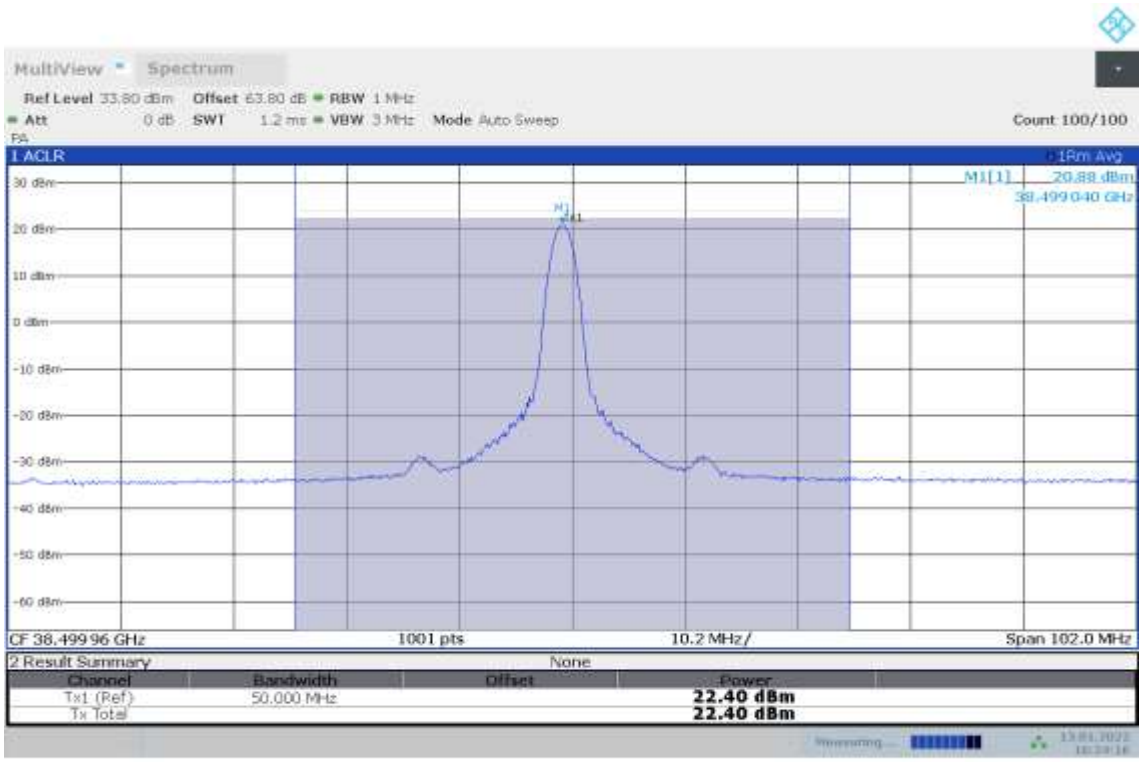
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	24.75	22.40	19.75

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK



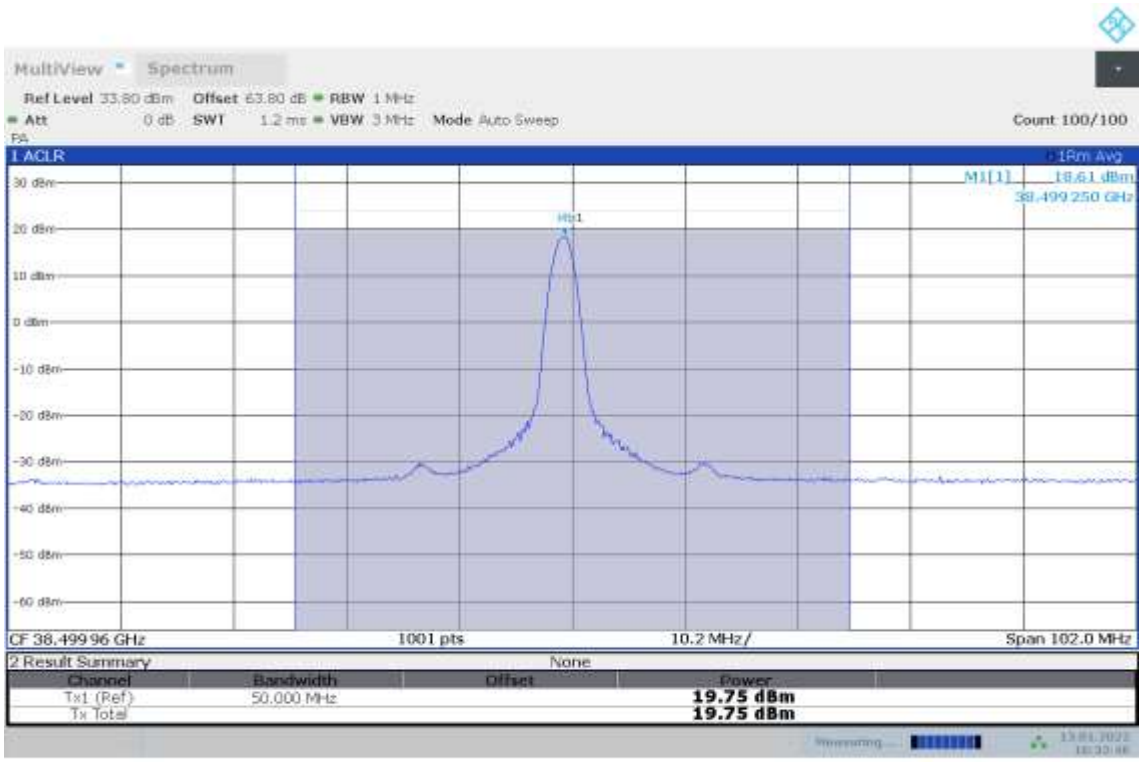
16:19:42 13.01.2022

n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



16:24:17 13.01.2022

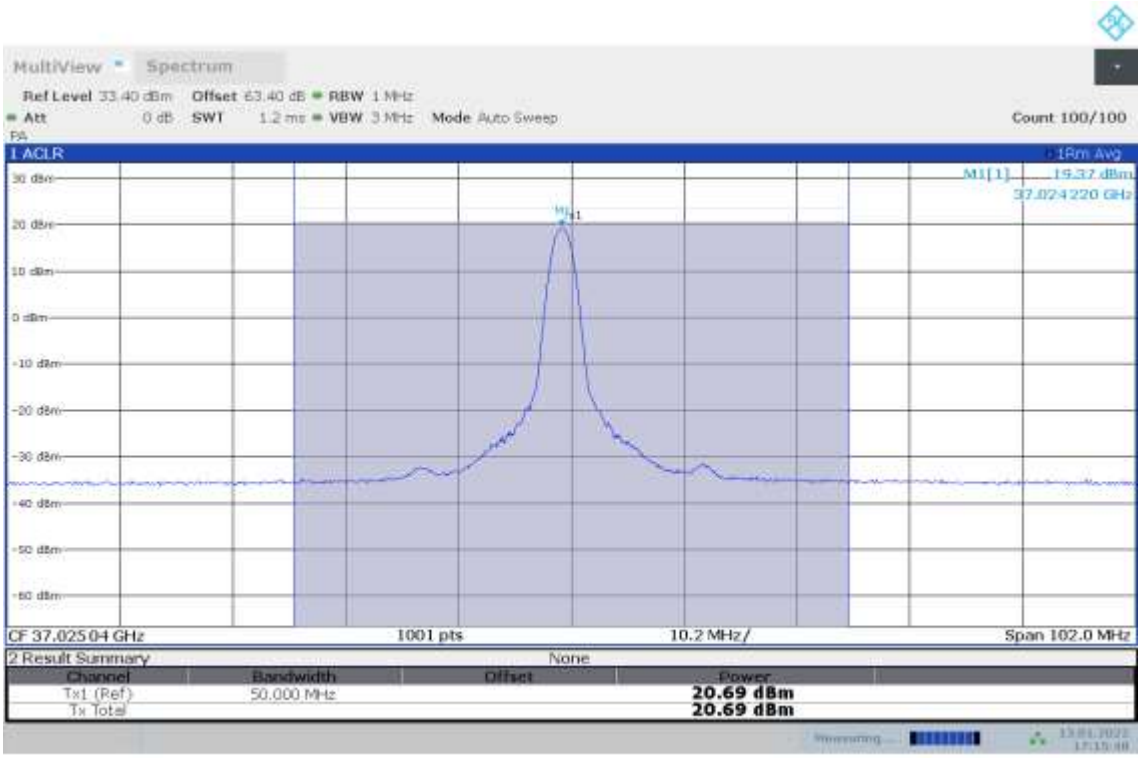
n260, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



16:32:47 13.01.2022

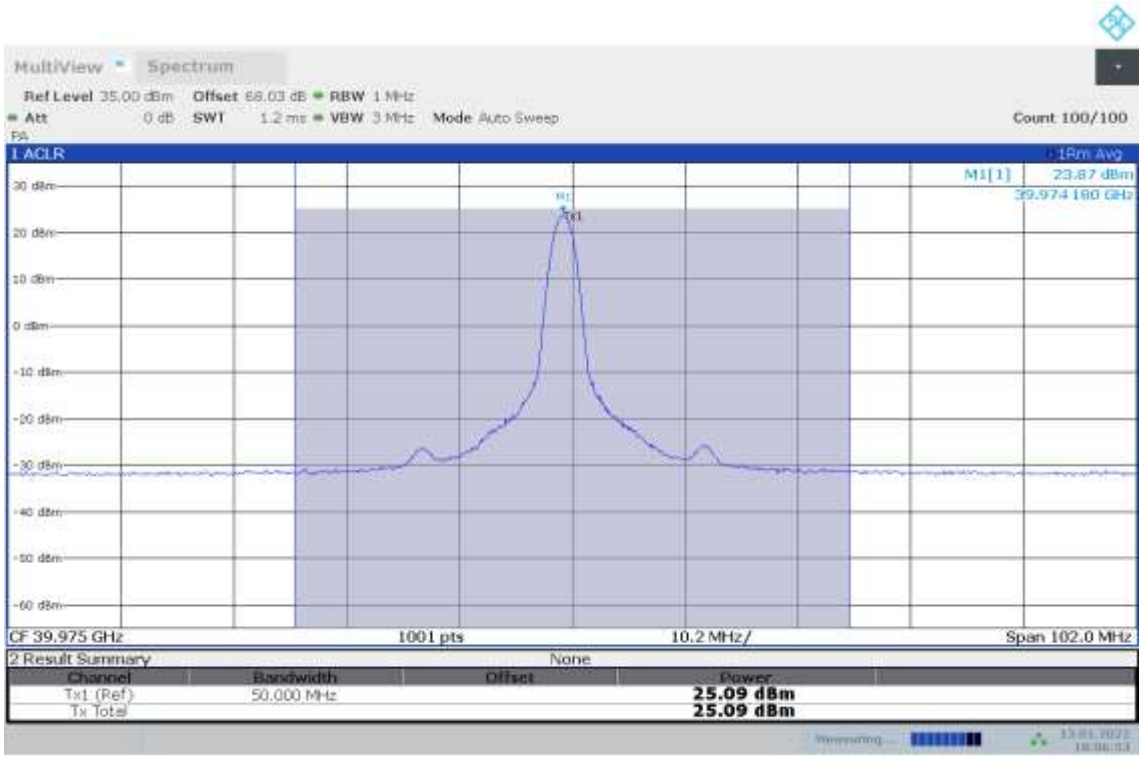
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	20.69	/	/

n260, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



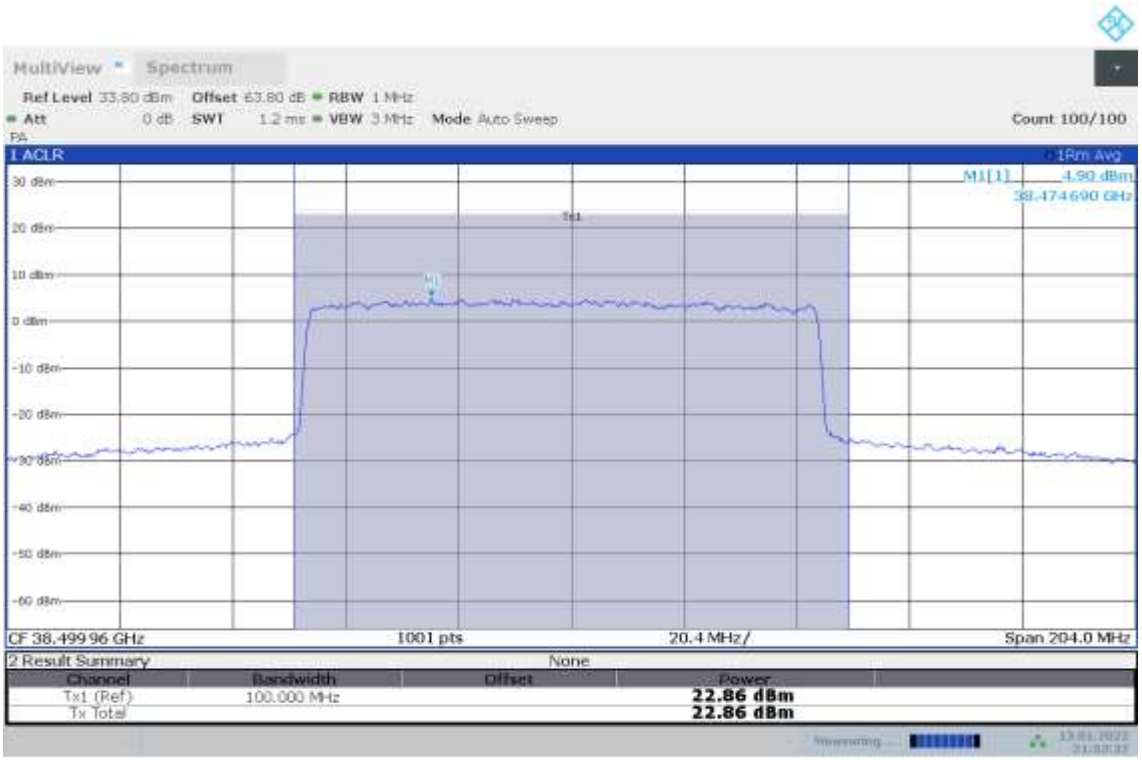
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	25.09	/	/

n260, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



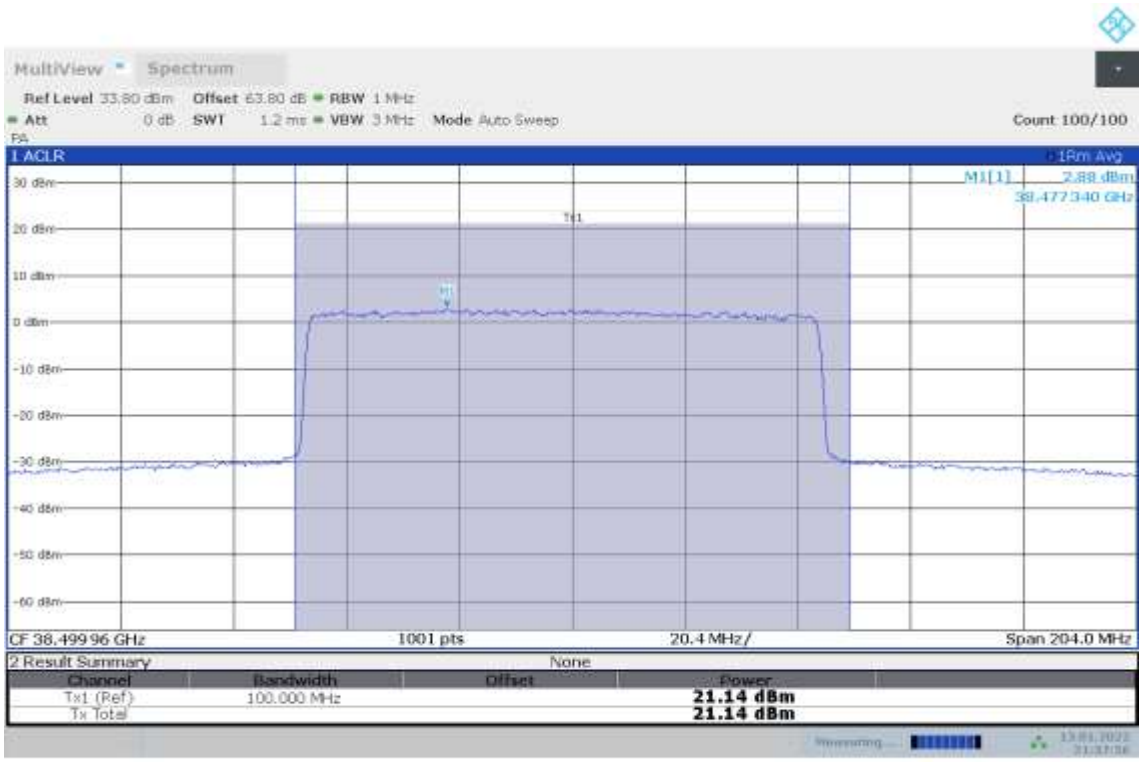
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	22.86	21.14	18.35

n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



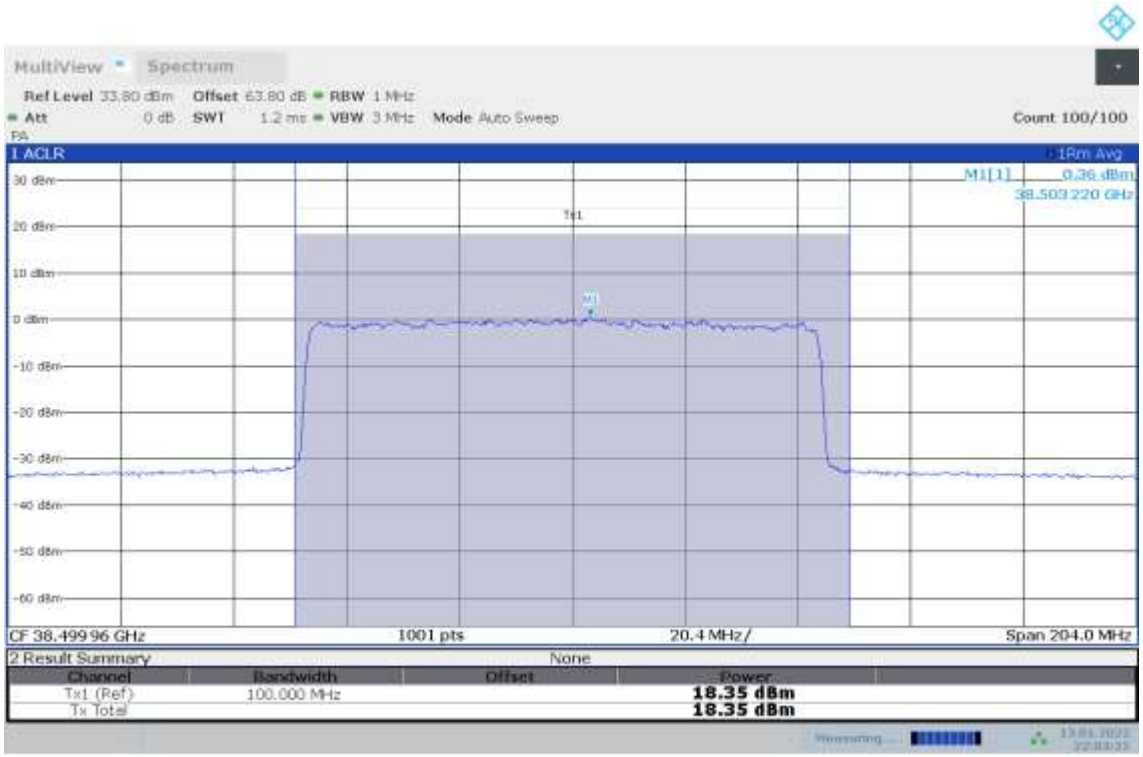
21:52:37 13.01.2022

n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



21:57:56 13.01.2022

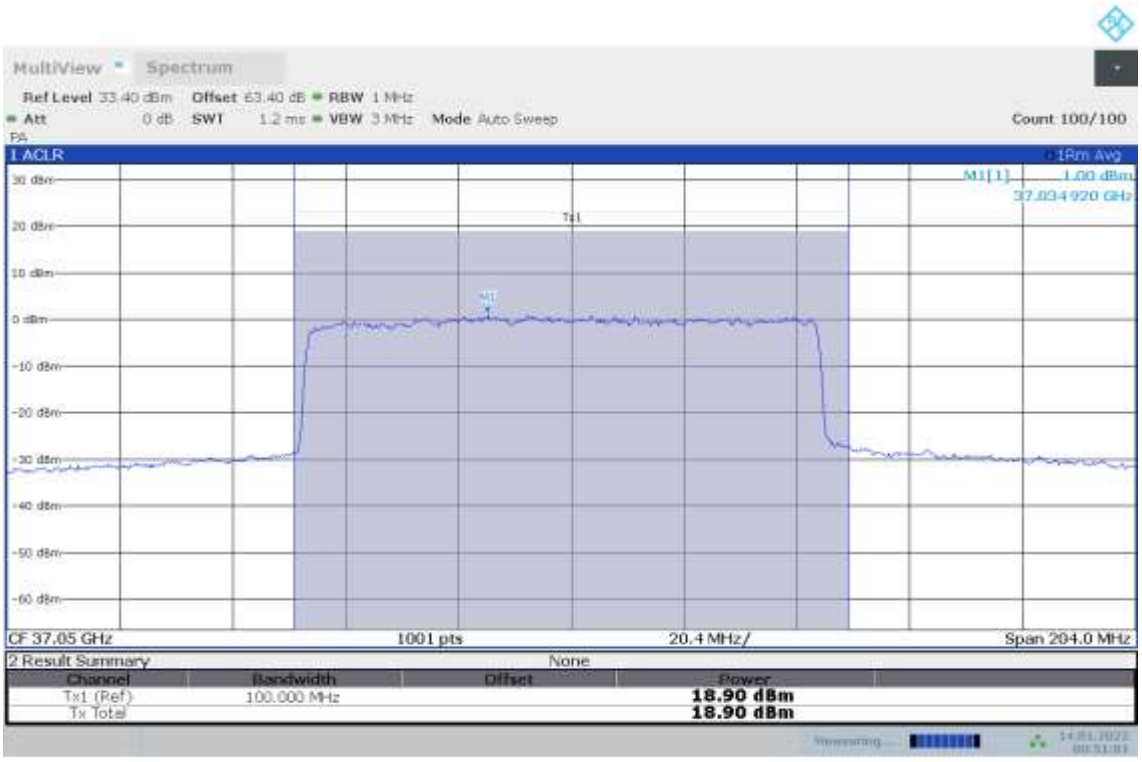
n260, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



22:03:23 13.01.2022

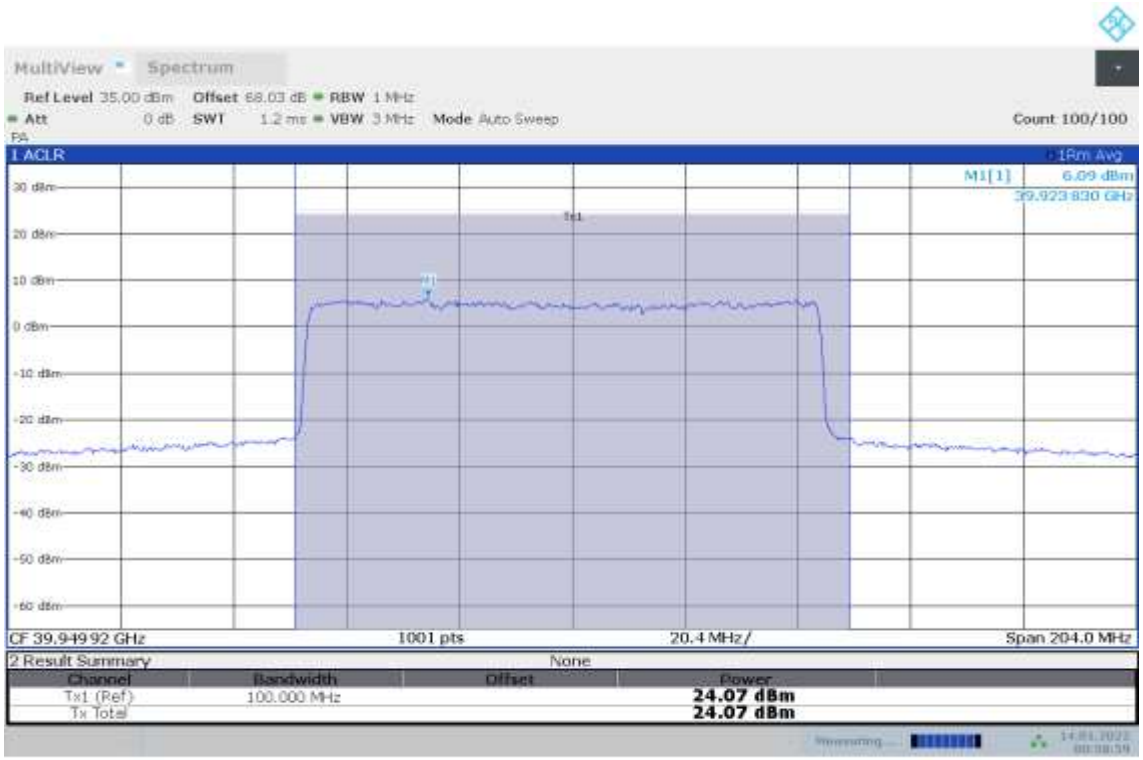
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	18.90	/	/

n260, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



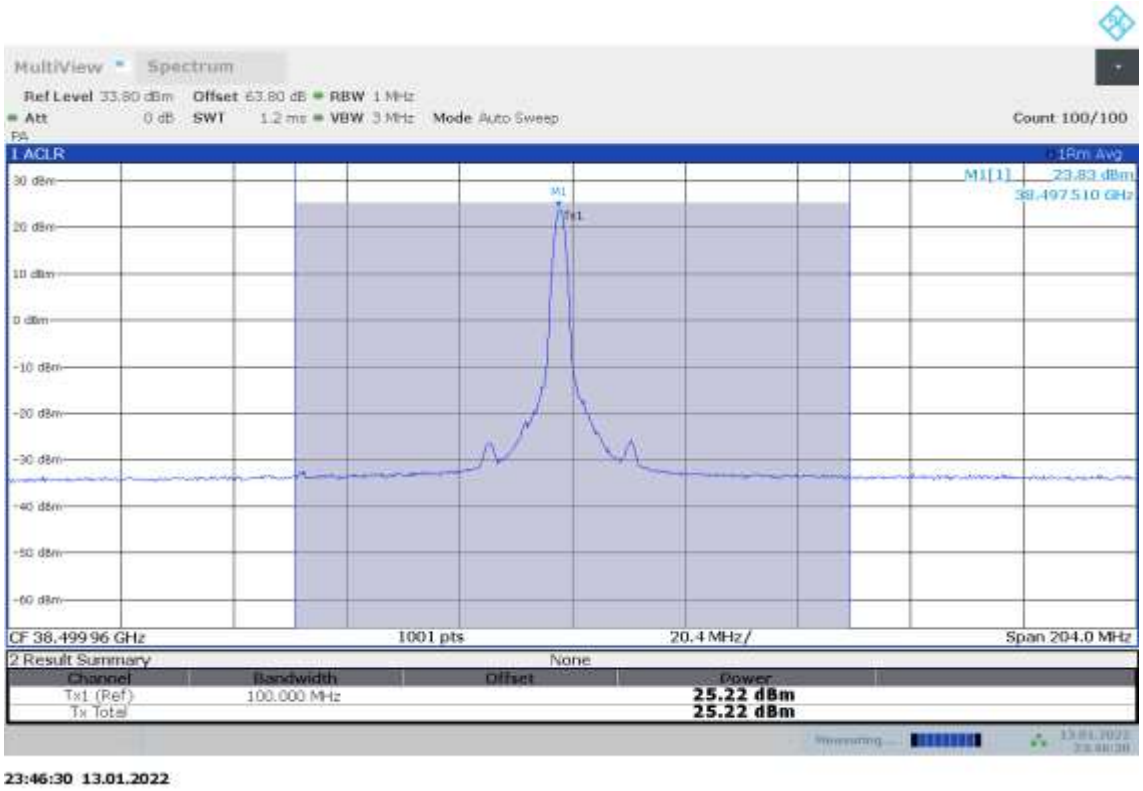
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	24.07	/	/

n260, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



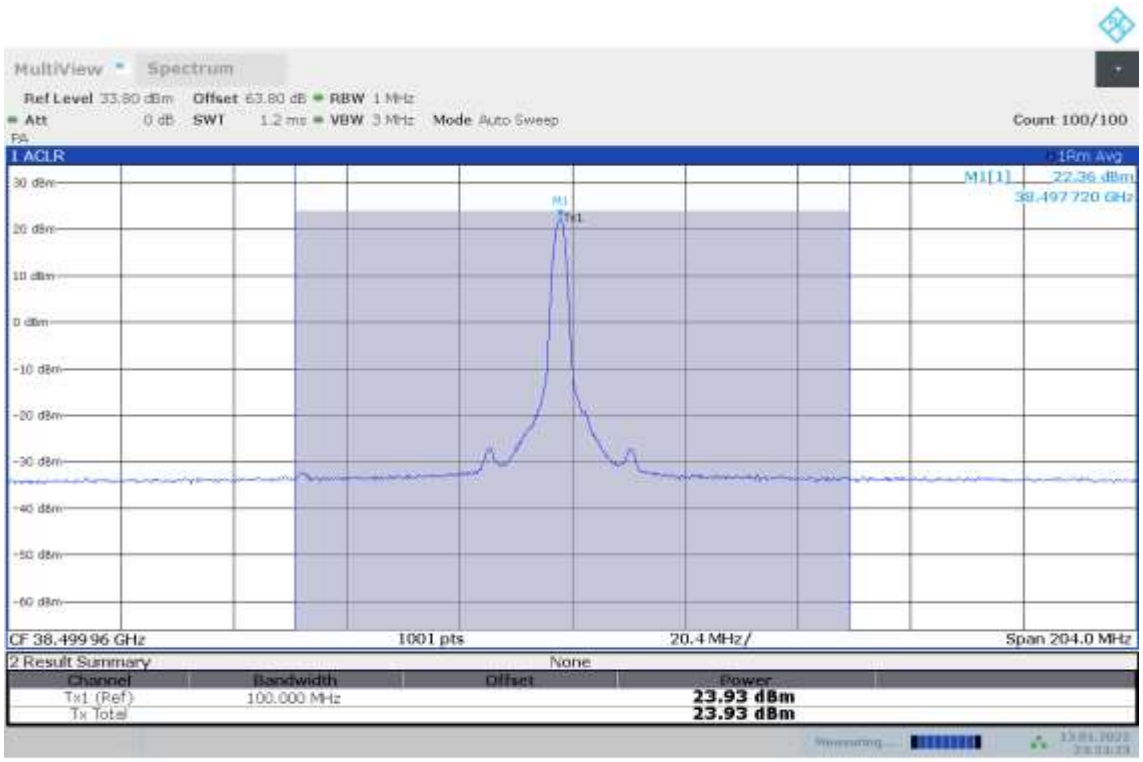
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	25.22	23.93	20.68

n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK



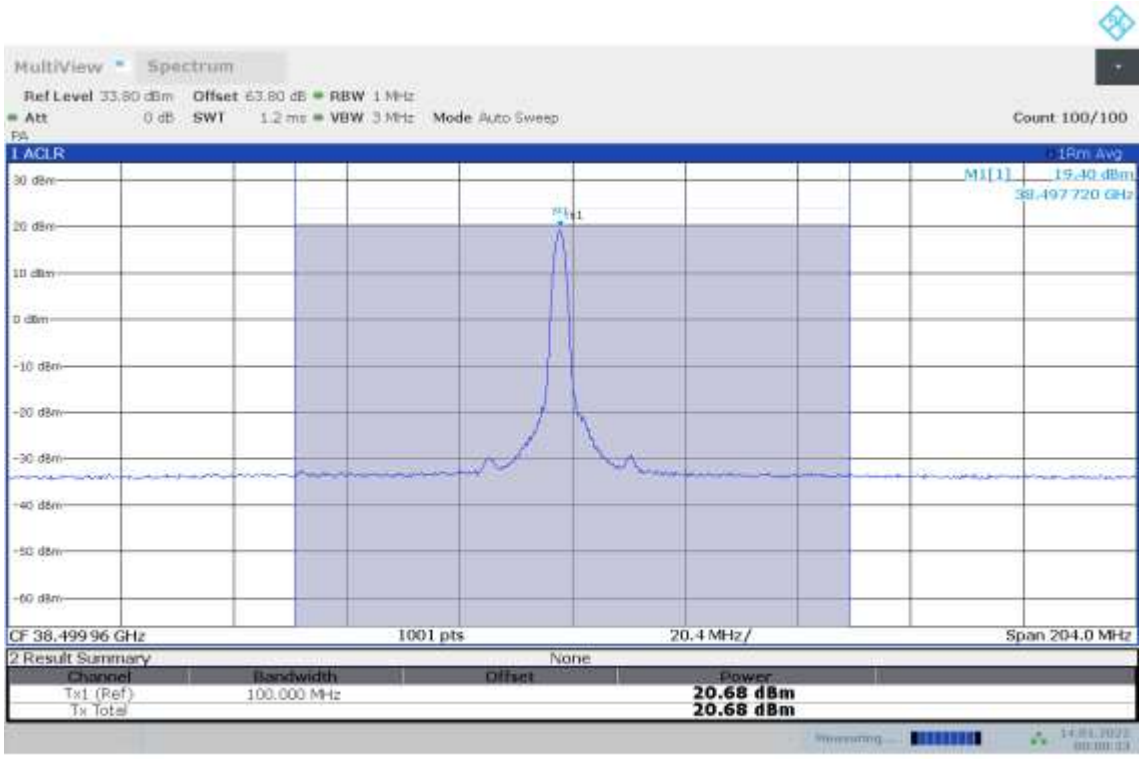
23:46:30 13.01.2022

n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



23:53:24 13.01.2022

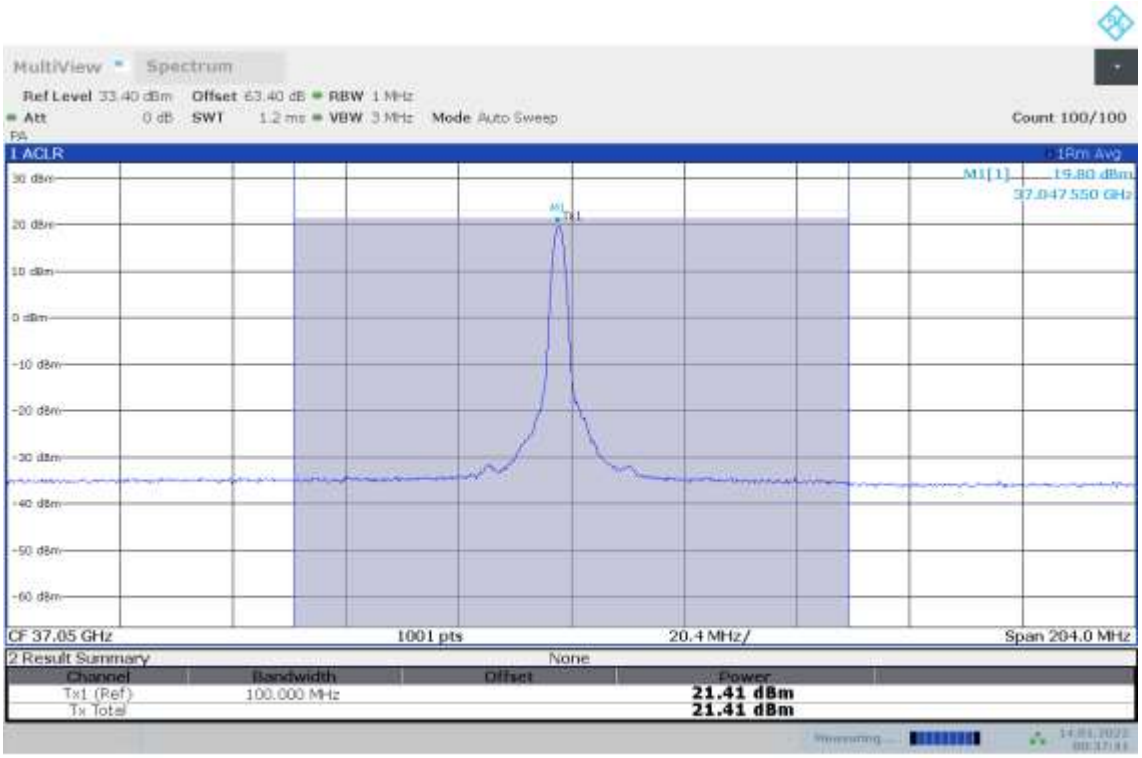
n260, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



00:00:34 14.01.2022

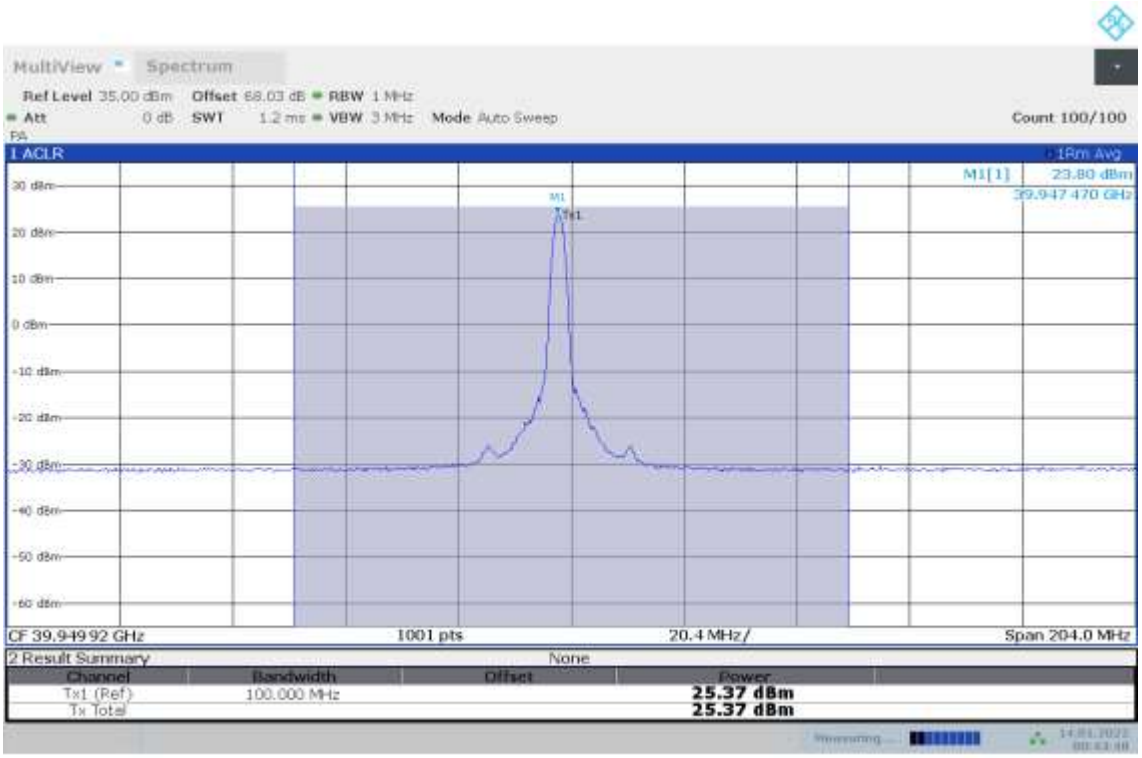
n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	21.41	/	/

n260, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



n260, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	25.37	/	/

n260, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	38499.96	20.35	/	/

n260, Module1, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK

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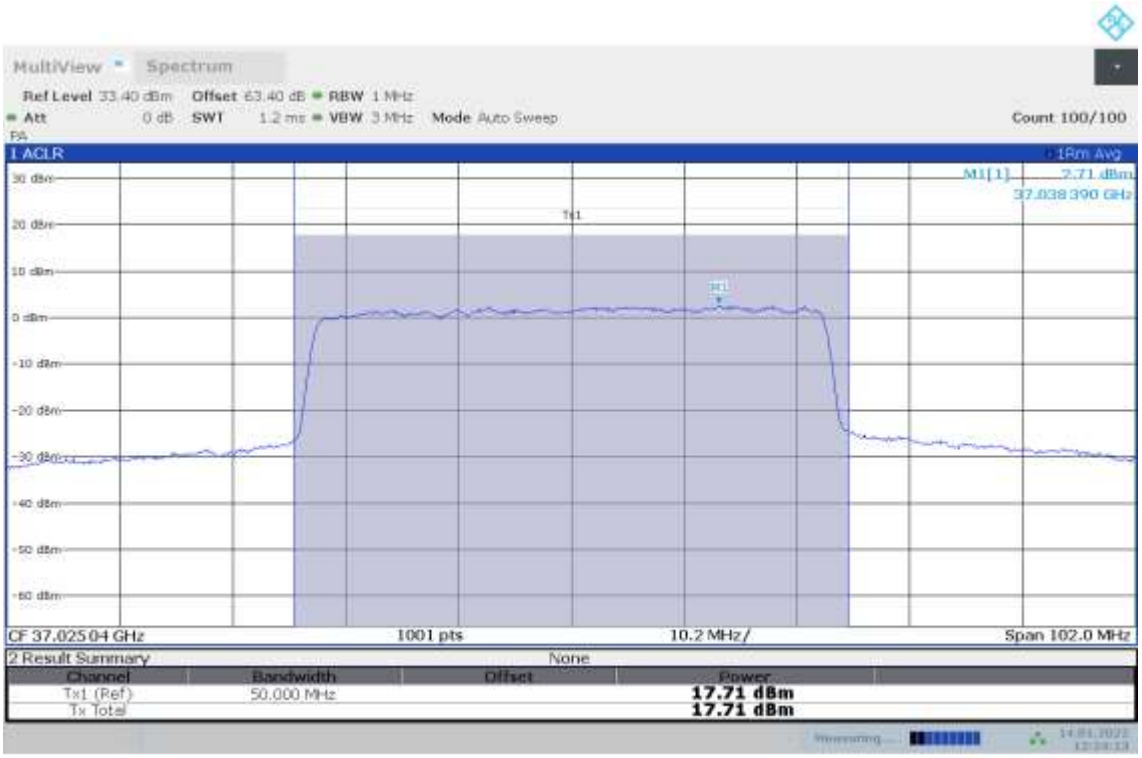
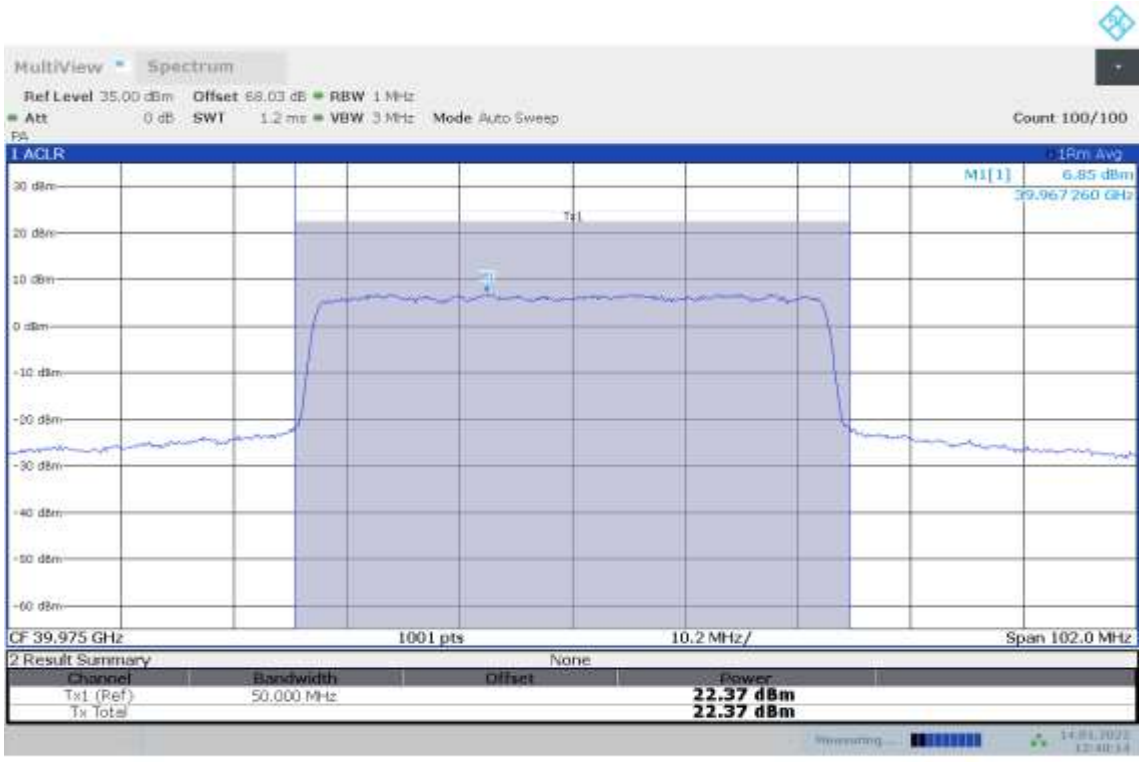
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	37025.04	17.71	/	/

n260, Module1, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



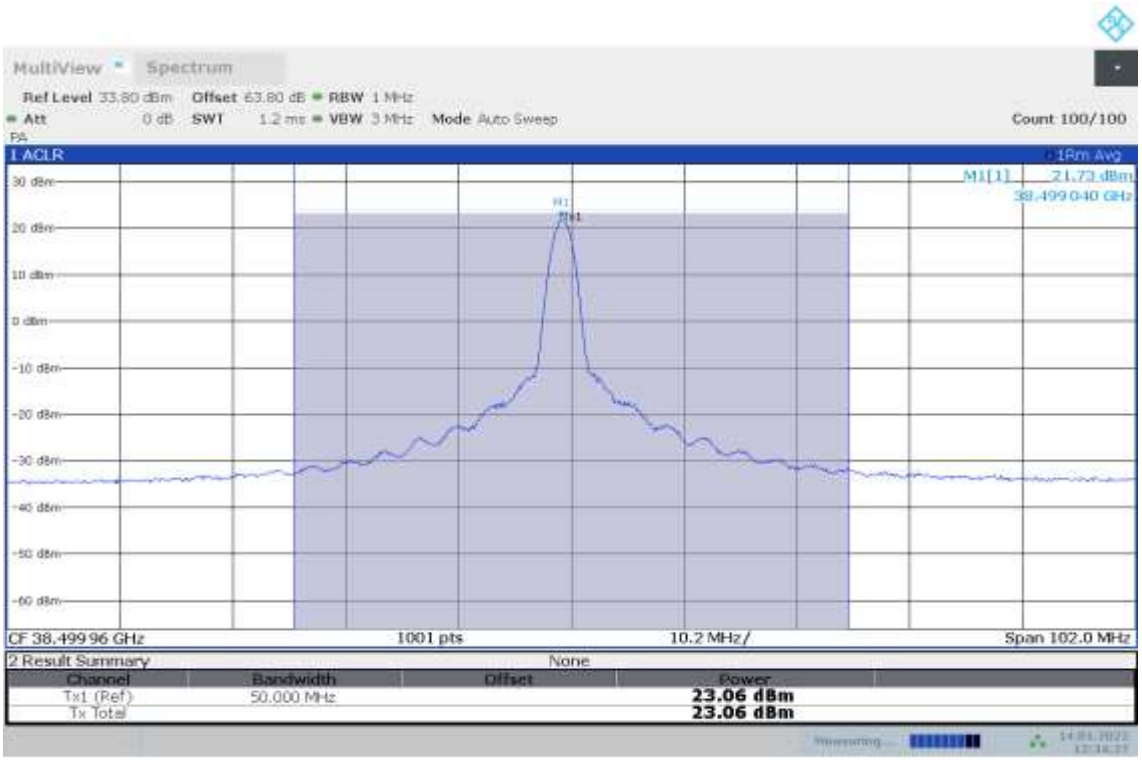
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	39975	22.37	/	/

n260, Module1, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



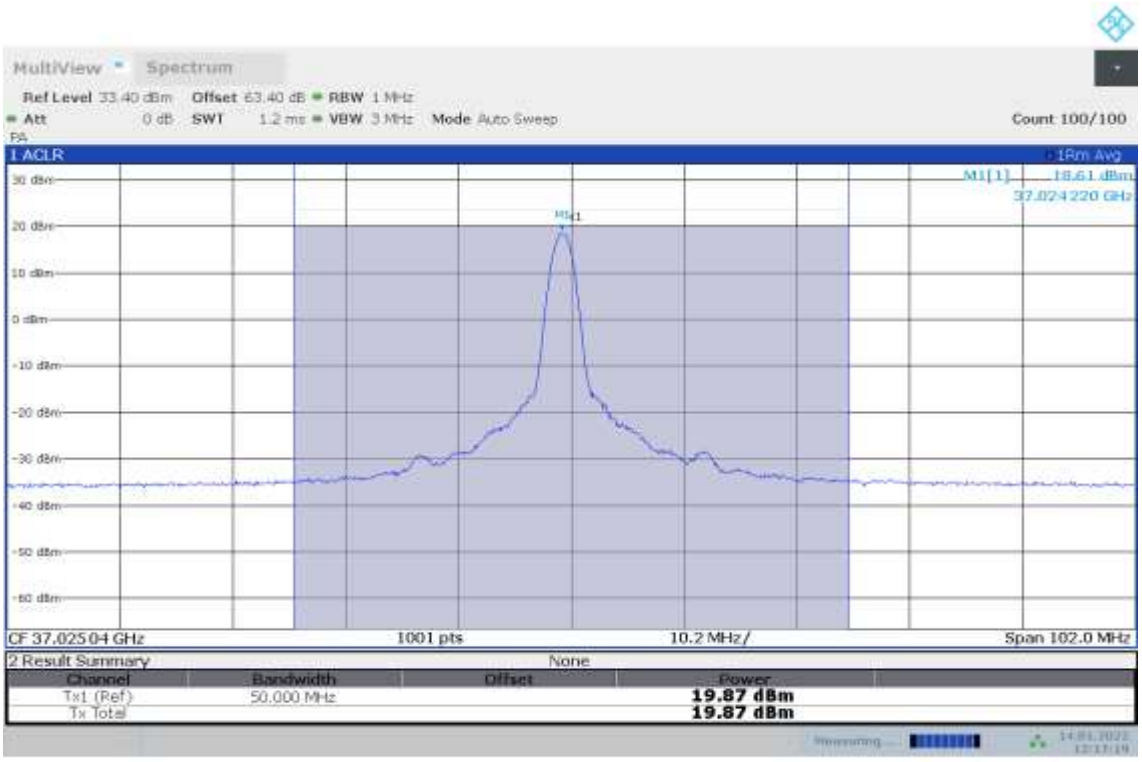
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	38499.96	23.06	/	/

n260, Module1, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK



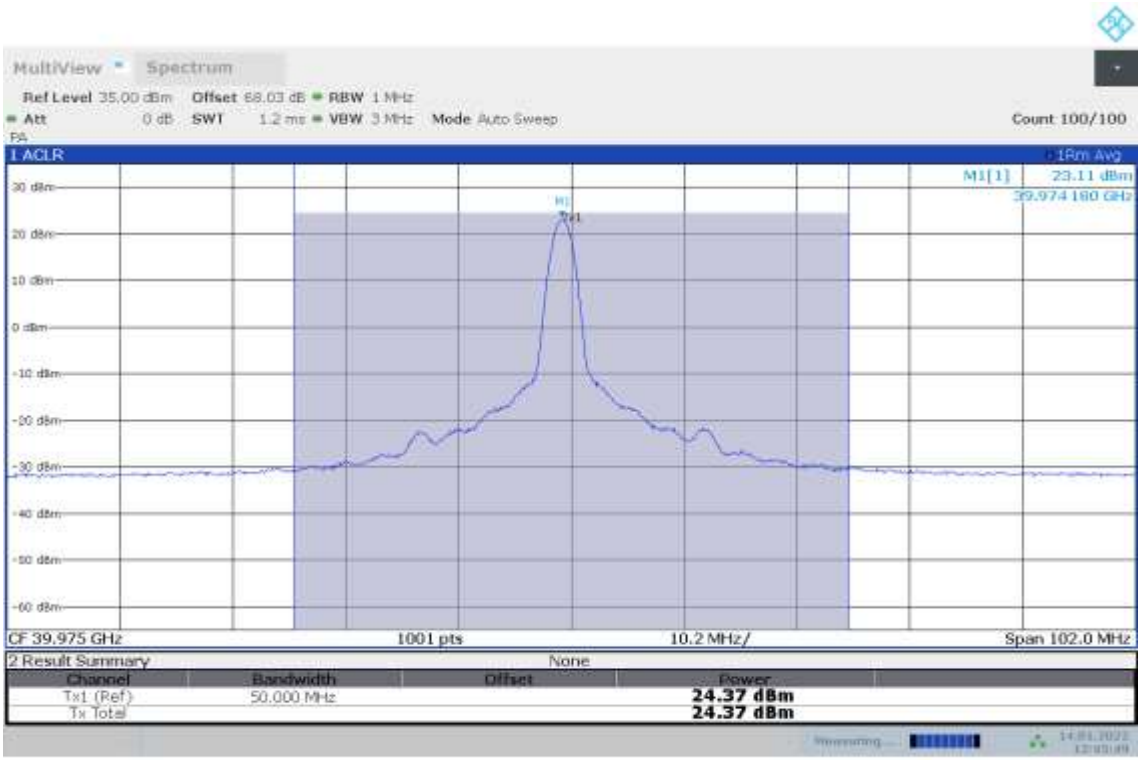
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	37025.04	19.87	/	/

n260, Module1, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



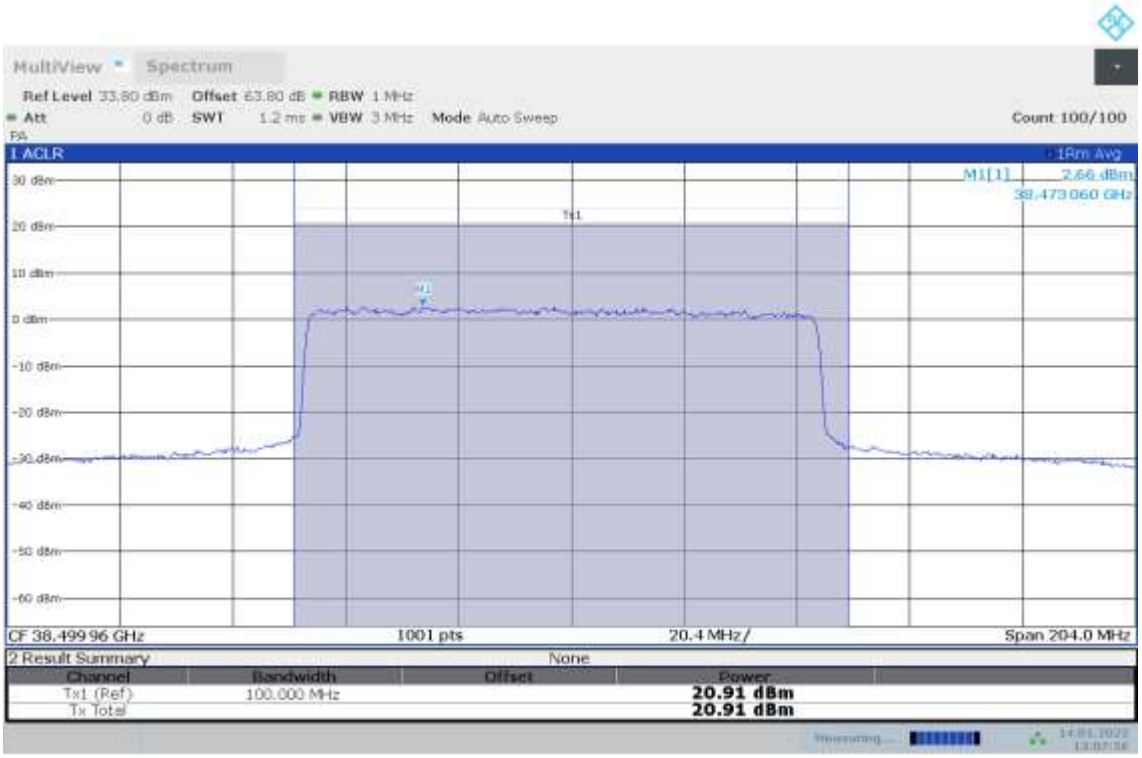
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	39975	24.37	/	/

n260, Module1, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	38499.96	20.91	/	/

n260, Module1, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



13:07:57 14.01.2022

n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	37050	18.05	/	/

n260, Module1, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK

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n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	39949.92	23.67	/	/

n260, Module1, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK

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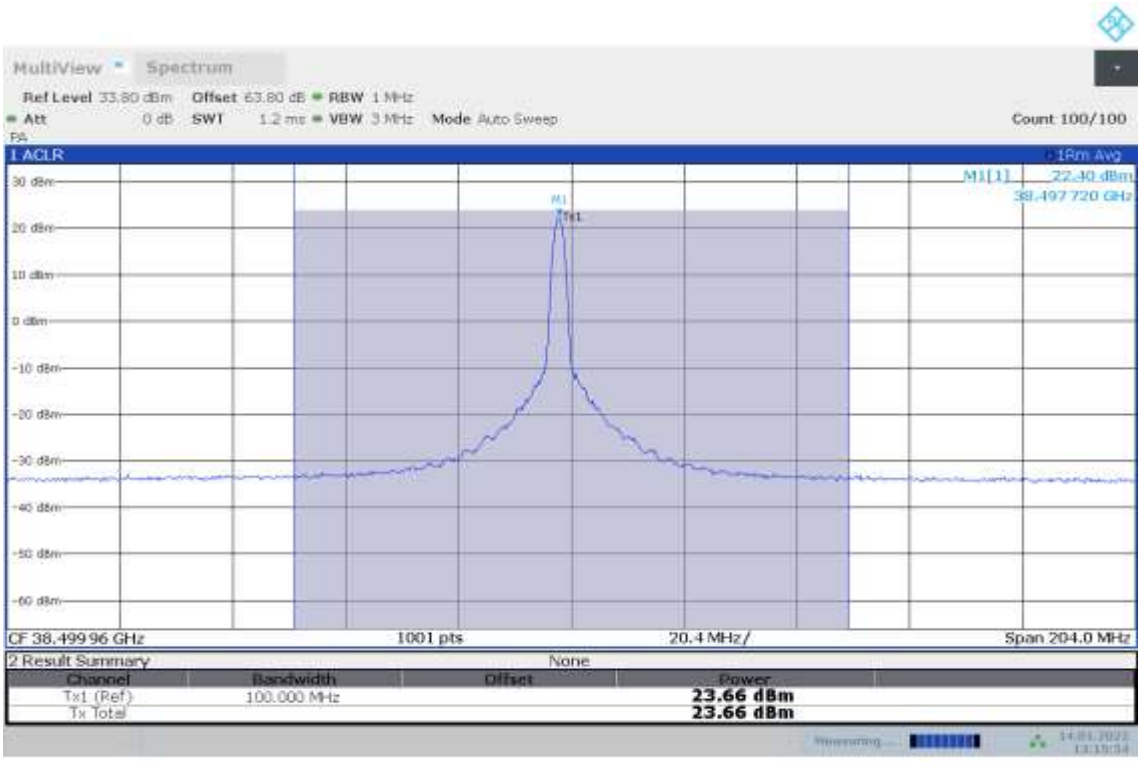
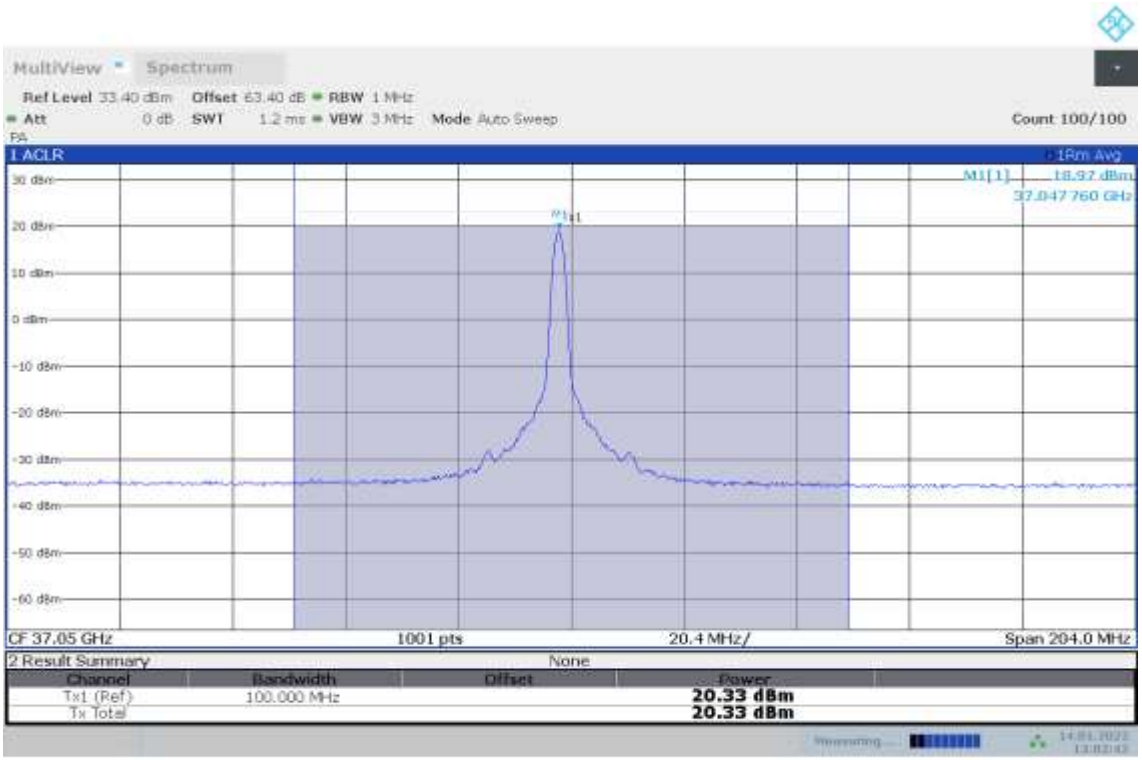
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	38499.96	23.66	/	/

n260, Module1, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK



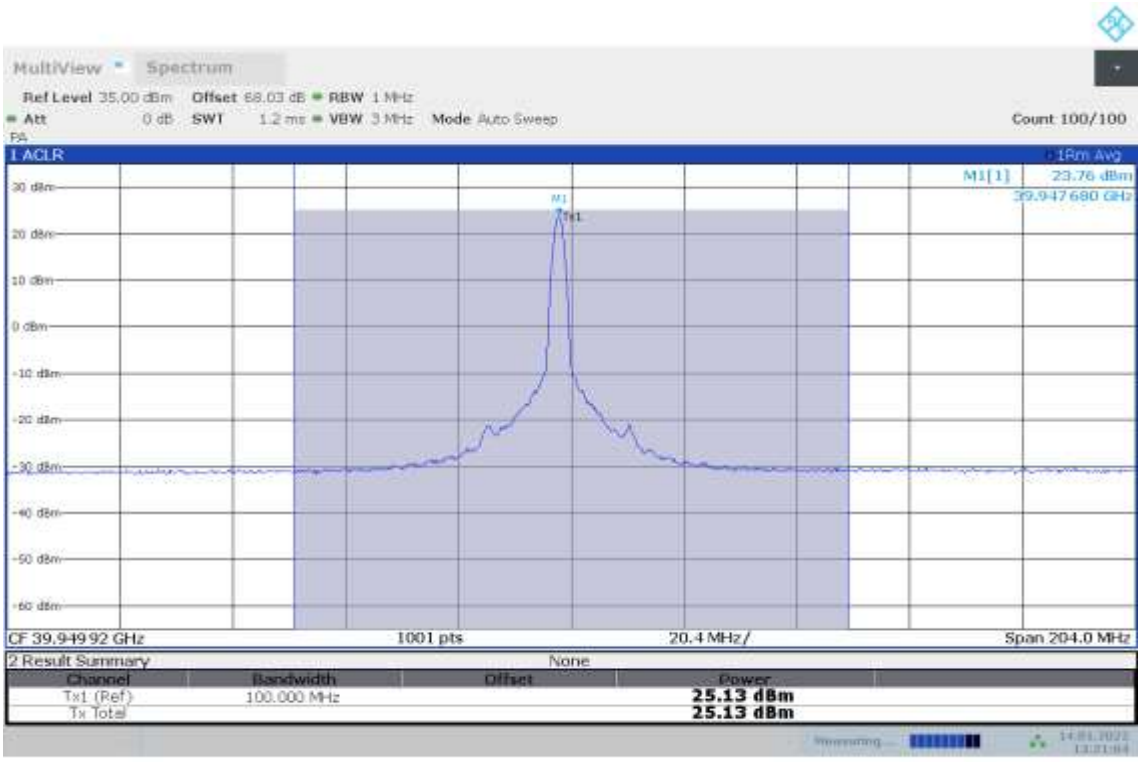
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	37050	20.33	/	/

n260, Module1, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



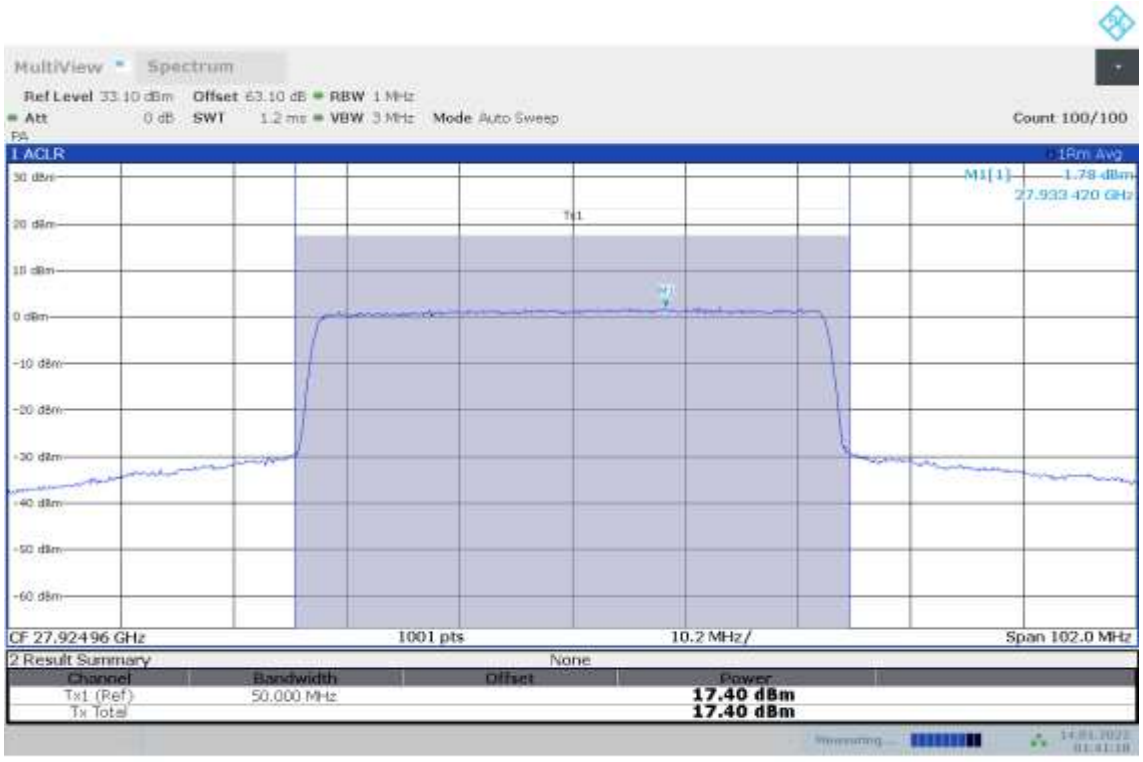
n260, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	39949.92	25.13	/	/

n260, Module1, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



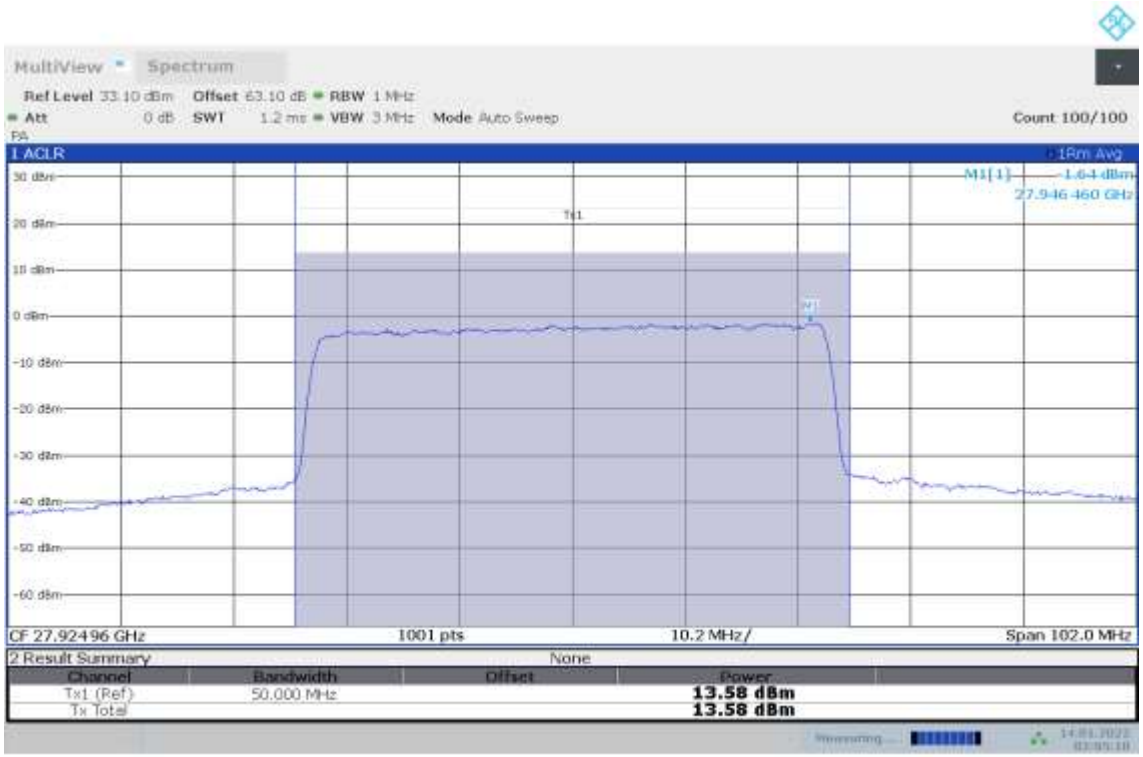
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27924.96	17.40	13.58	11.23

n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



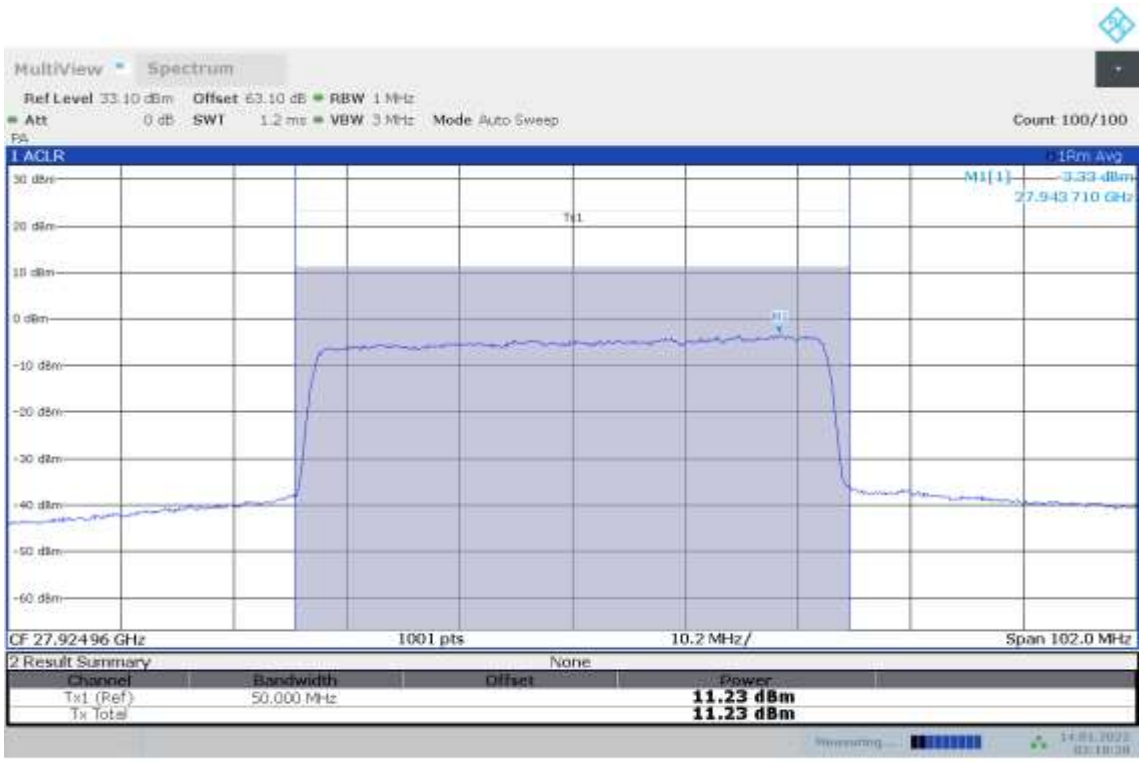
01:41:19 14.01.2022

n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



02:05:11 14.01.2022

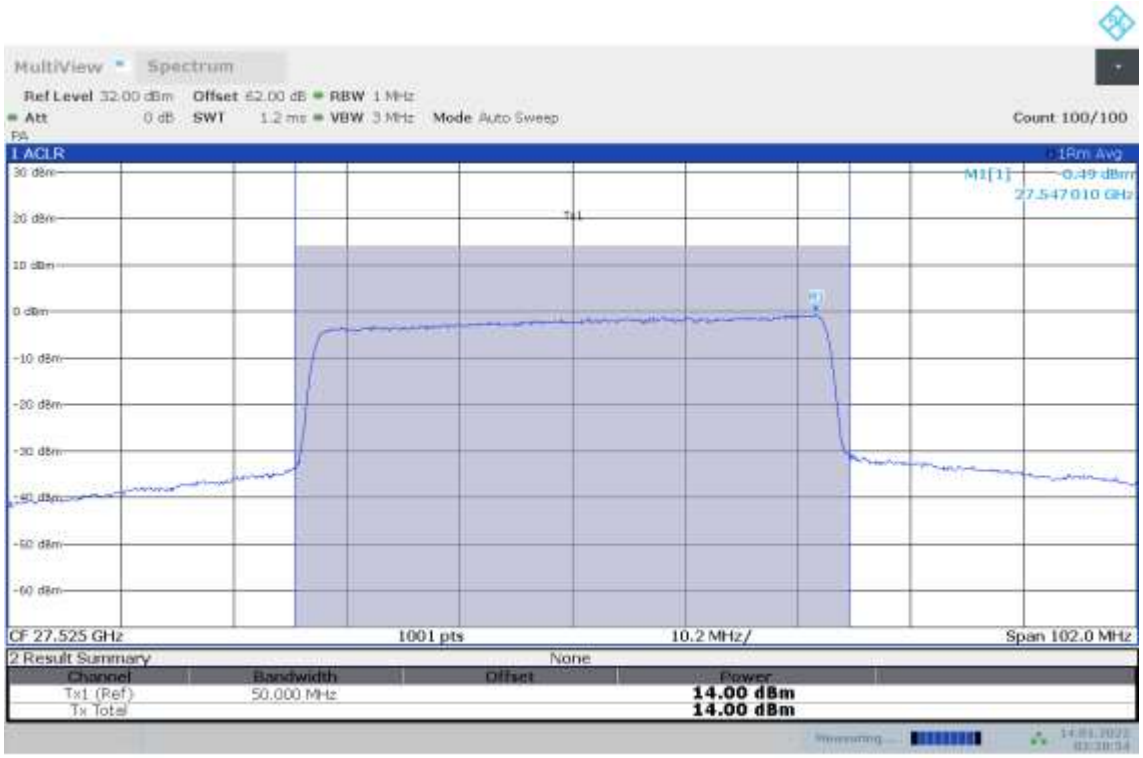
n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



02:10:29 14.01.2022

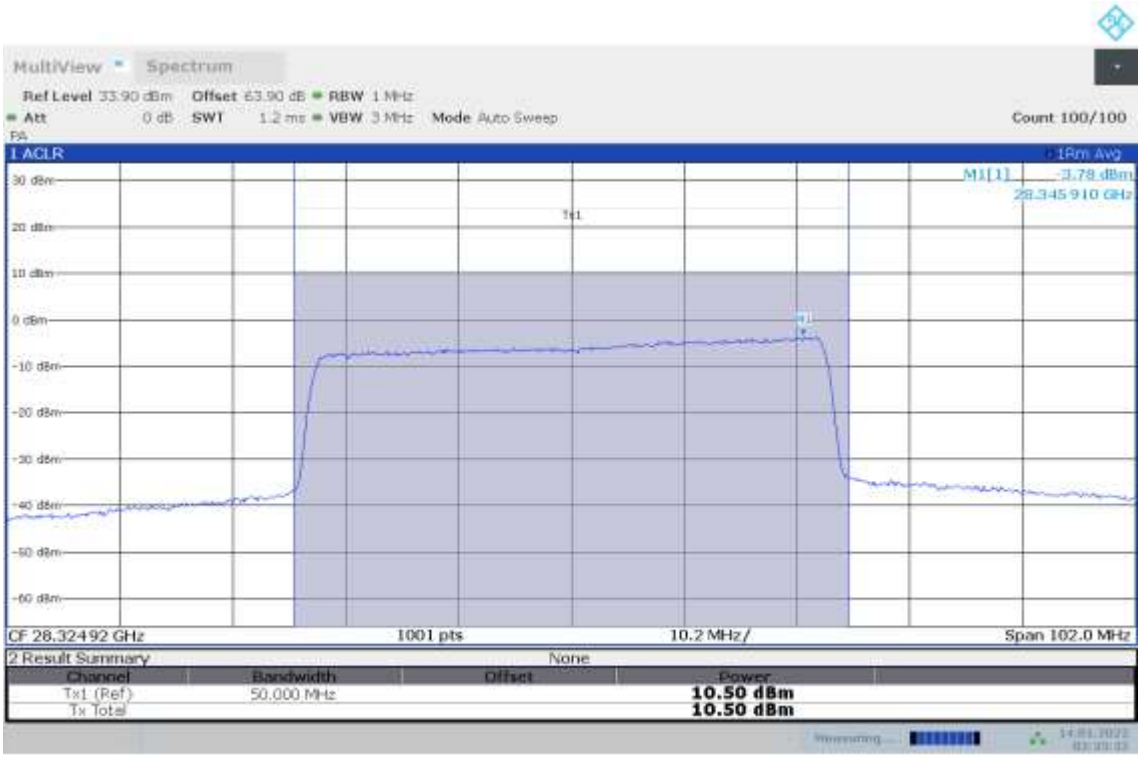
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	14.00	/	/

n261, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	28324.92	10.50	/	/

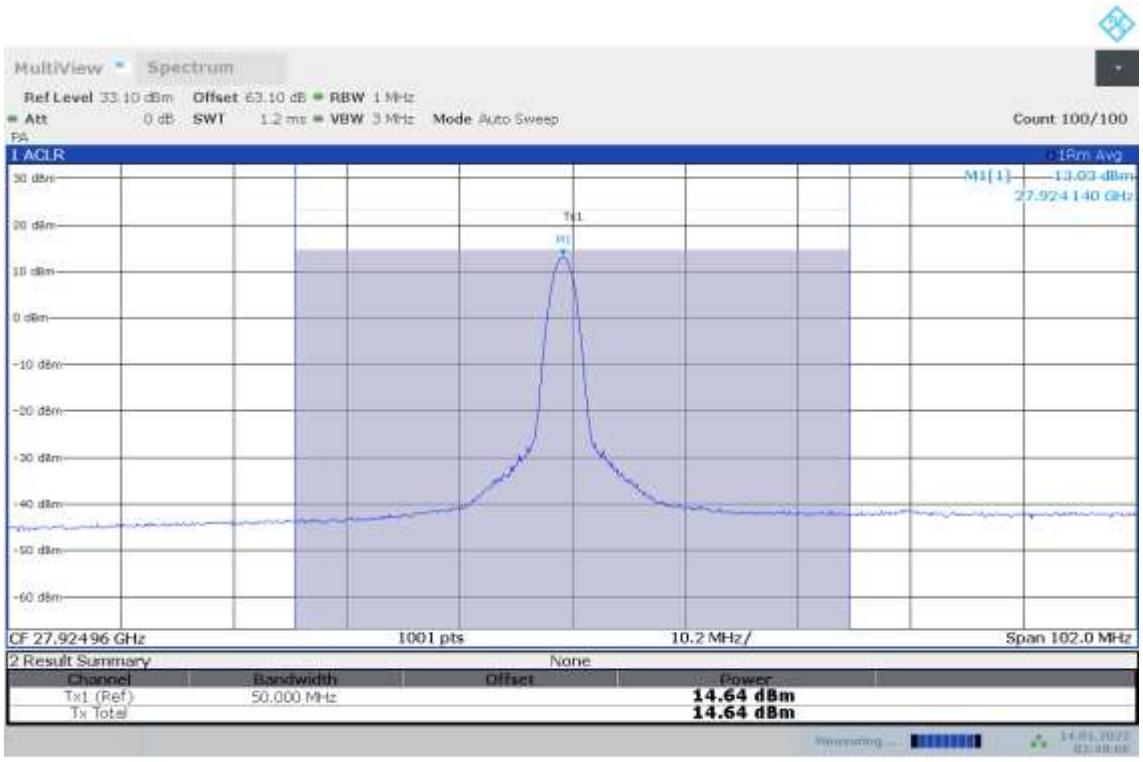
n261, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



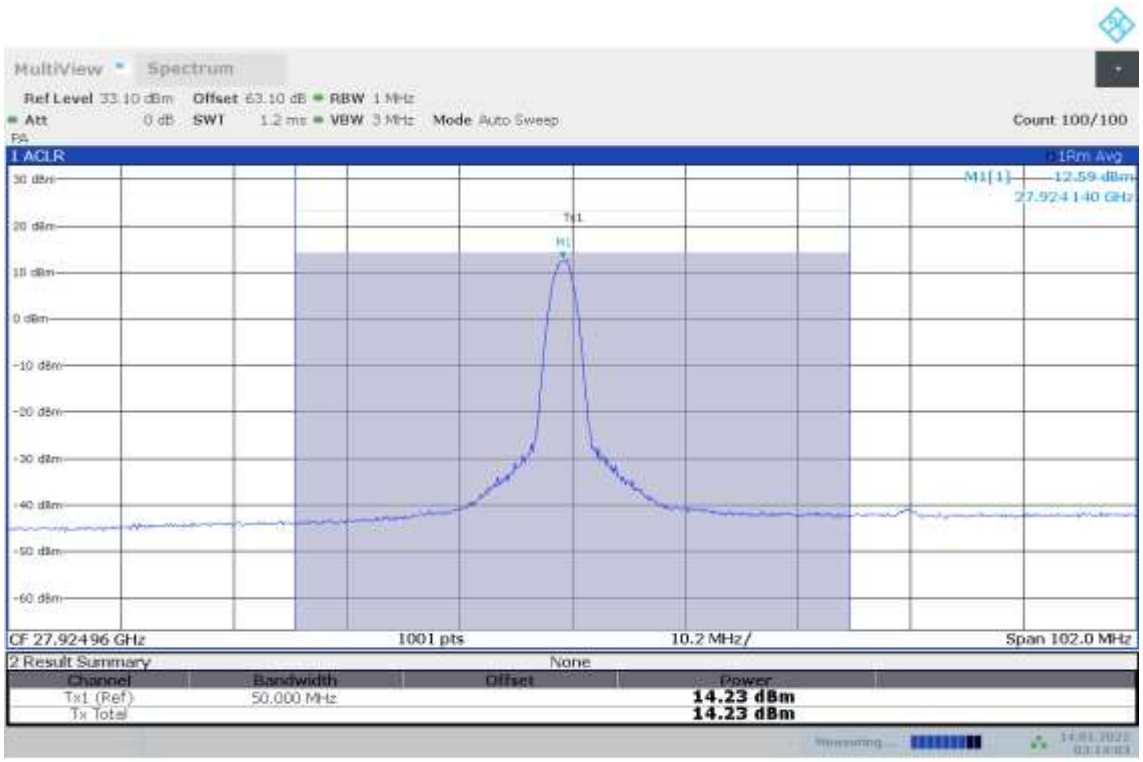
02:35:33 14.01.2022

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27924.96	14.64	14.23	11.67

n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK

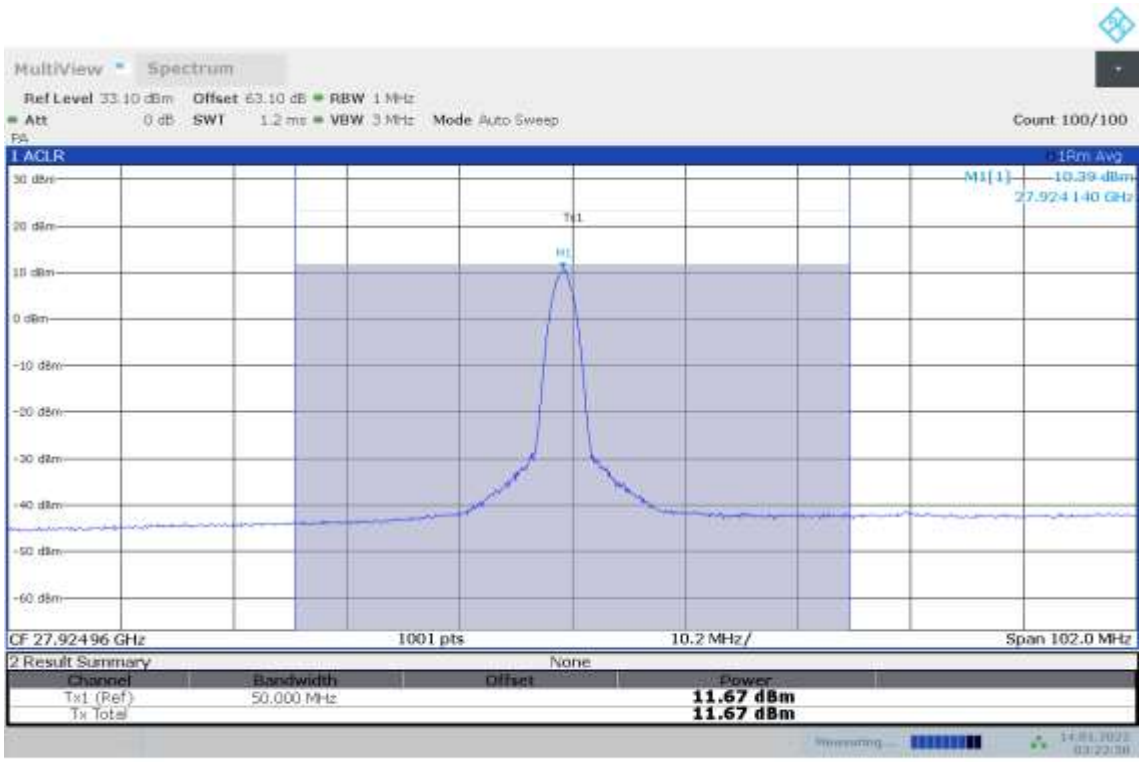


n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



03:14:03 14.01.2022

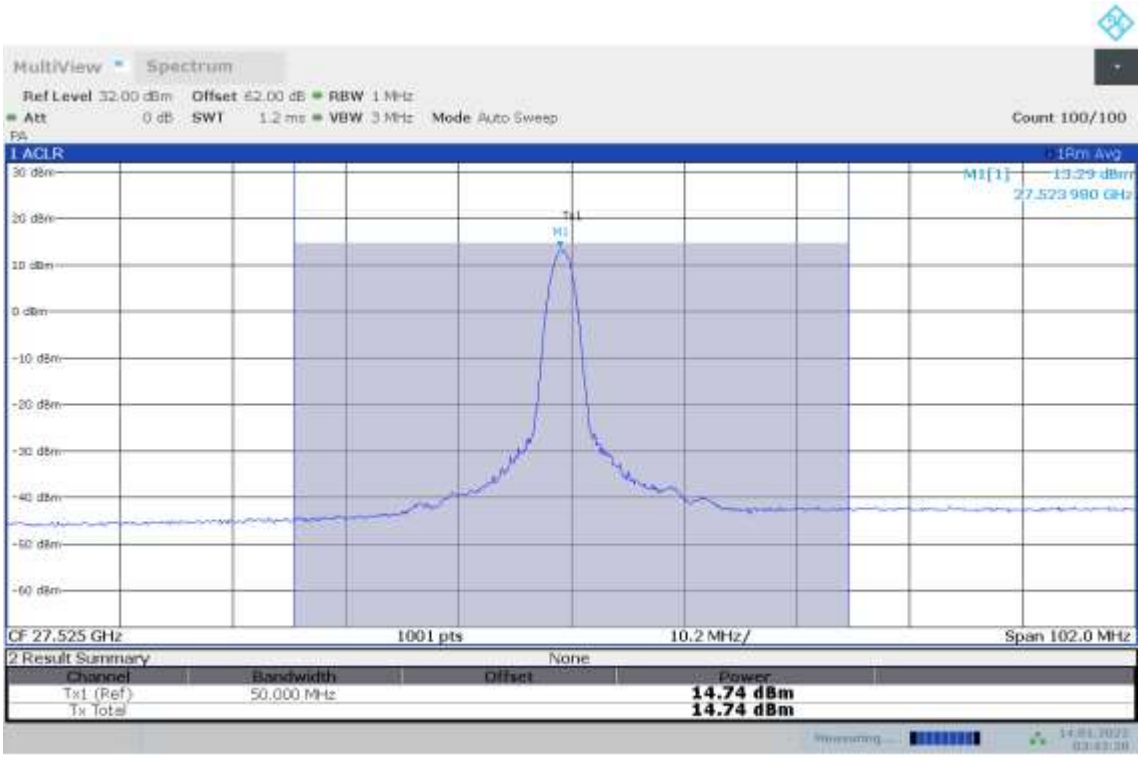
n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



03:22:51 14.01.2022

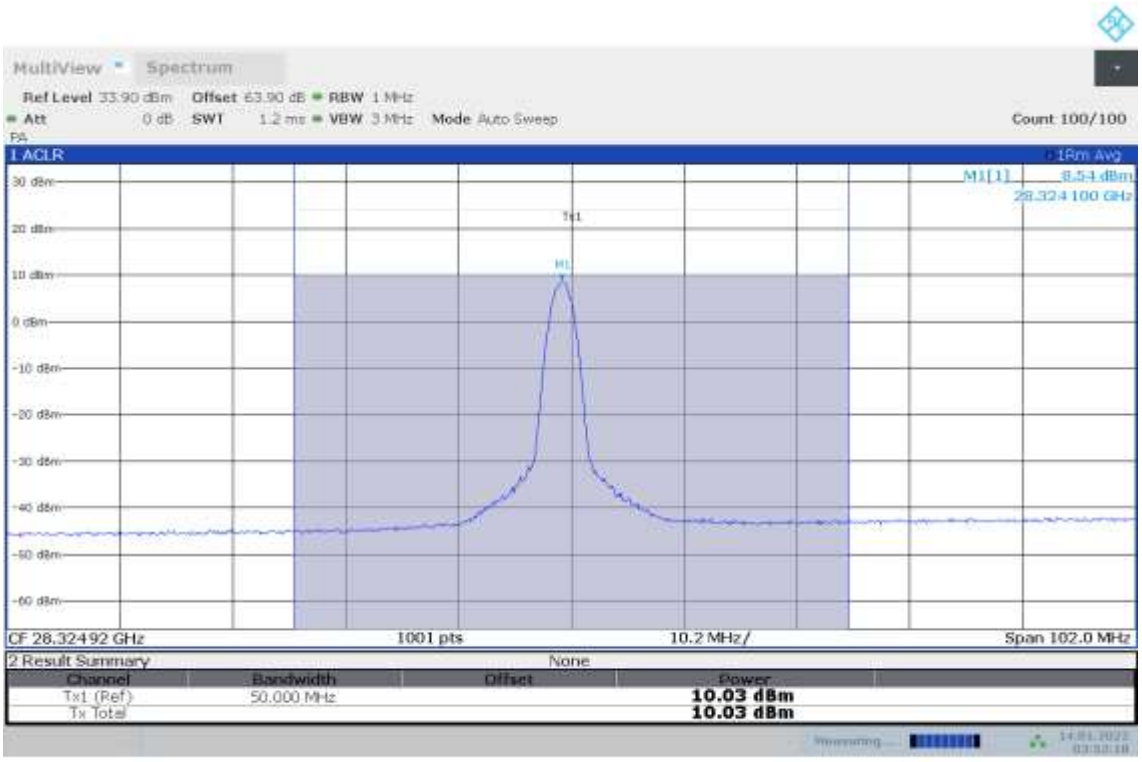
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27525	14.74	/	/

n261, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



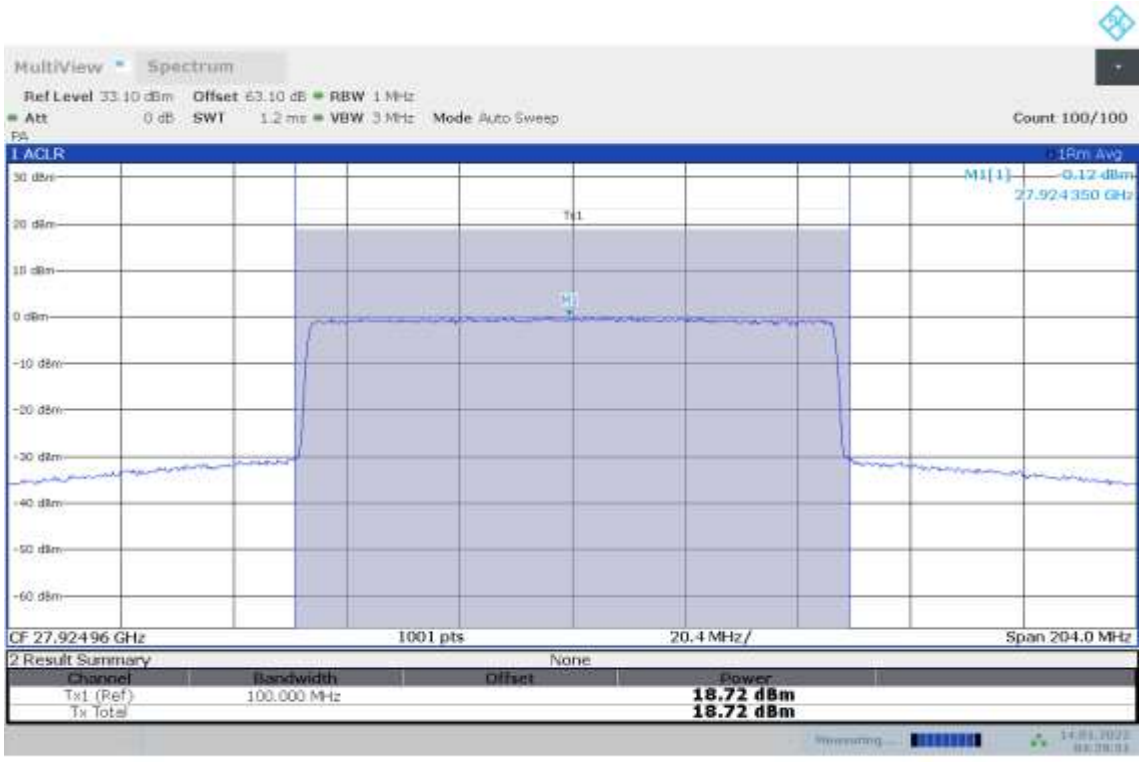
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	28324.92	10.03	/	/

n261, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



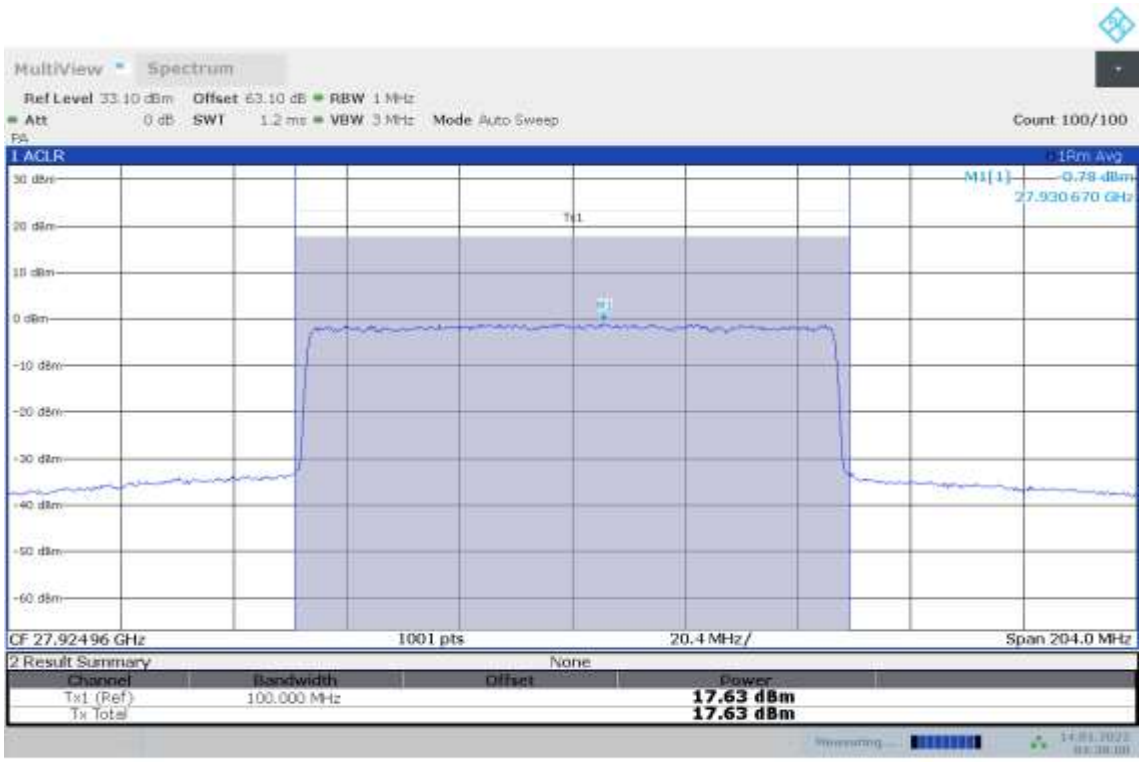
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27924.96	18.72	17.63	17.77

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



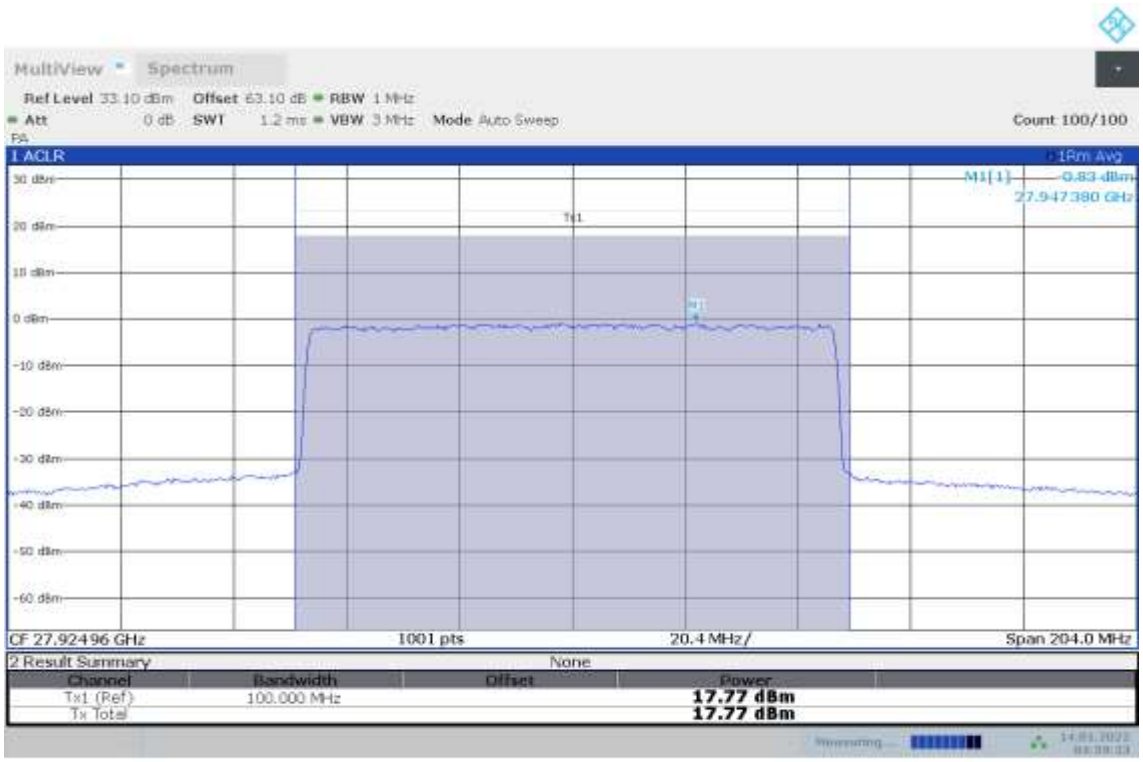
04:29:52 14.01.2022

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



04:38:00 14.01.2022

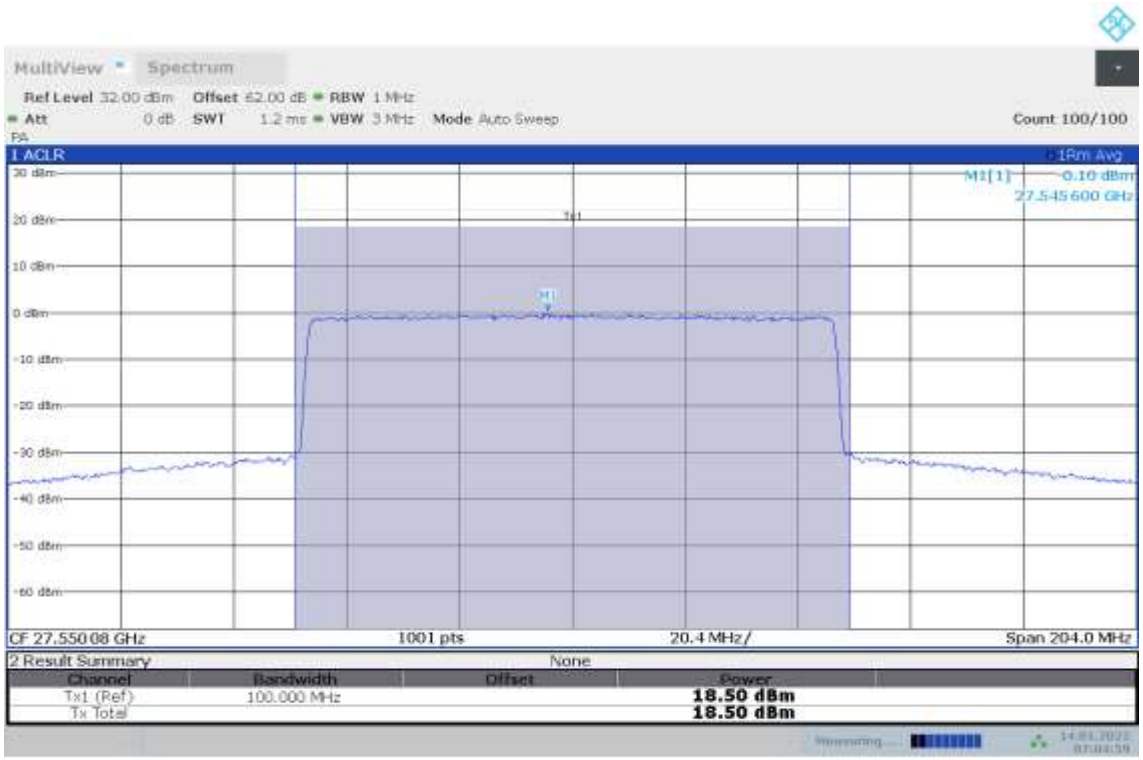
n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



04:59:33 14.01.2022

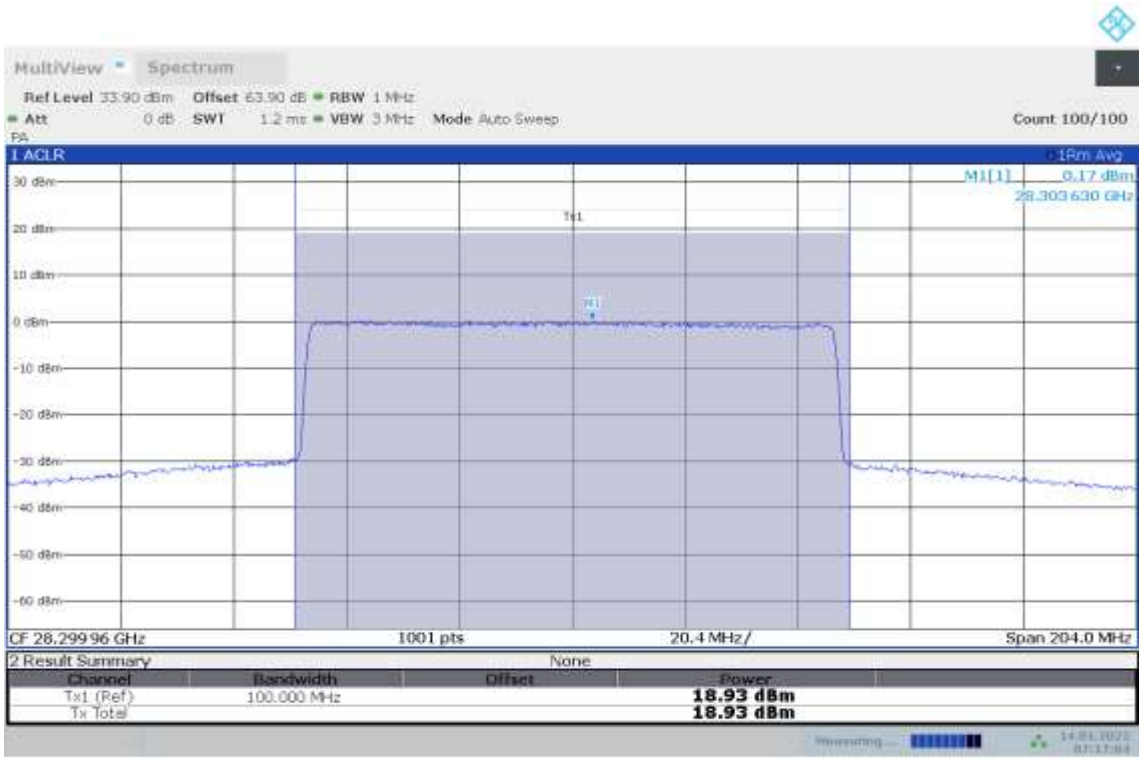
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27550.08	18.50	/	/

n261, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	28299.96	18.93	/	/

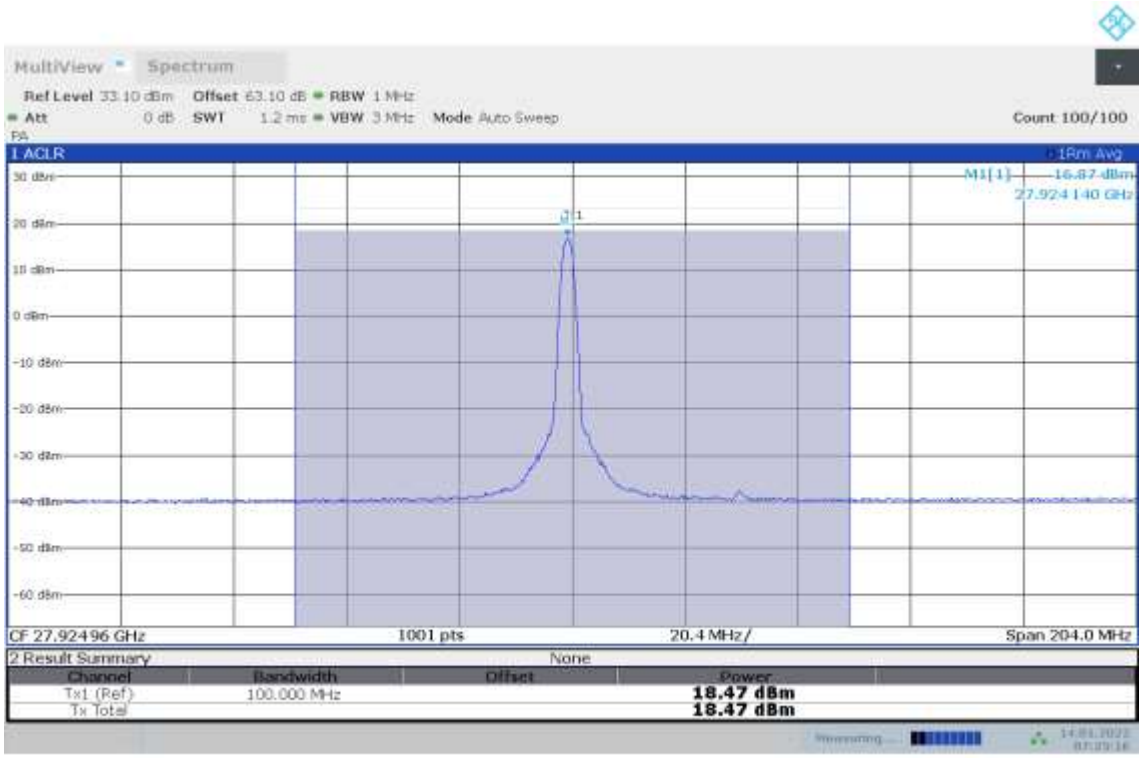
n261, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



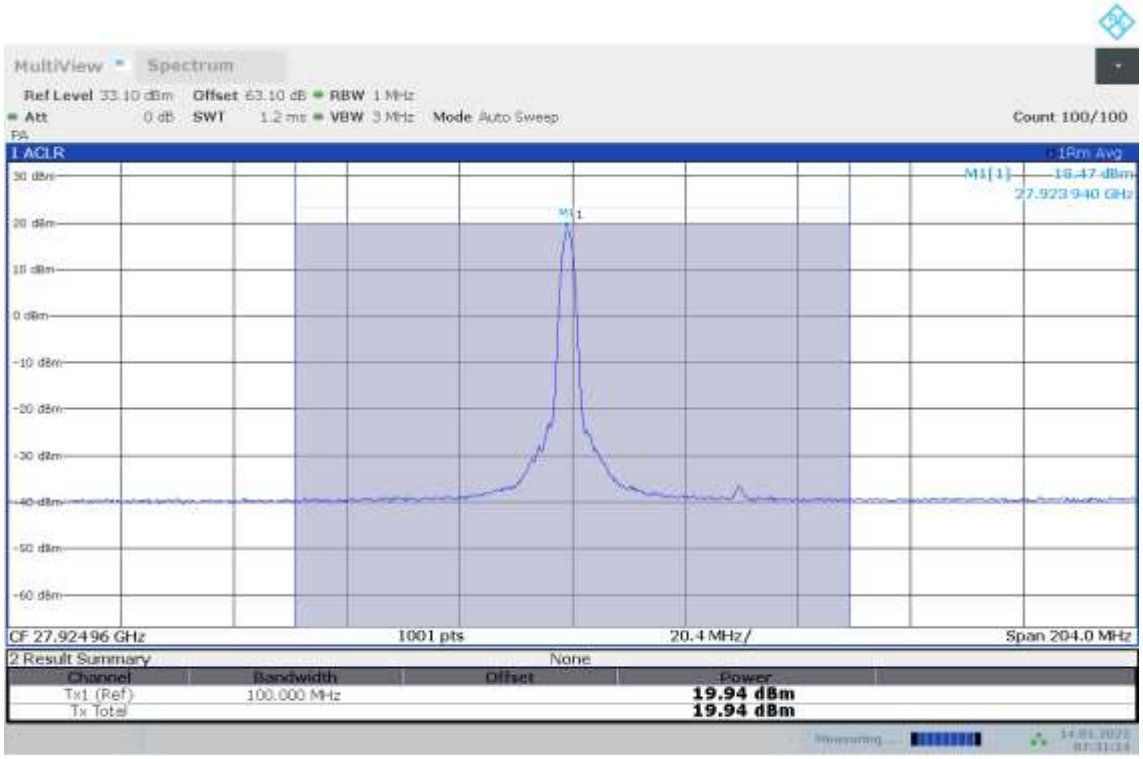
07:17:04 14.01.2022

n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27924.96	18.47	19.94	17.23

n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK

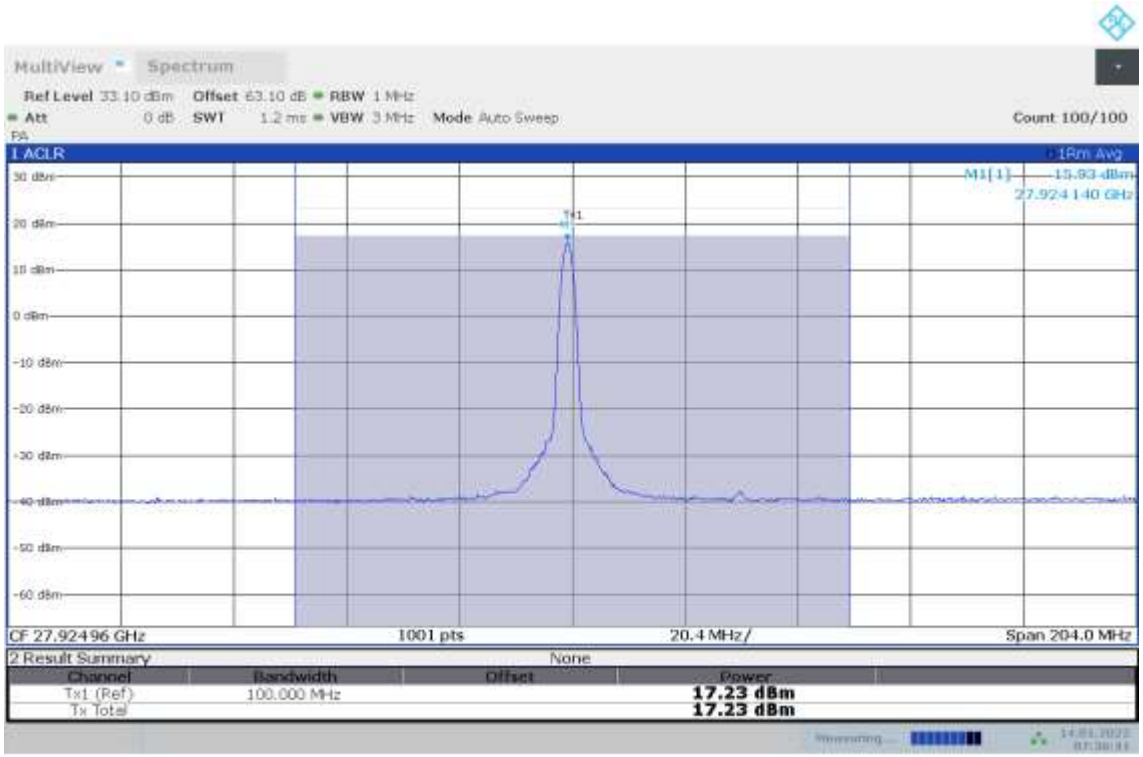


n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



07:31:25 14.01.2022

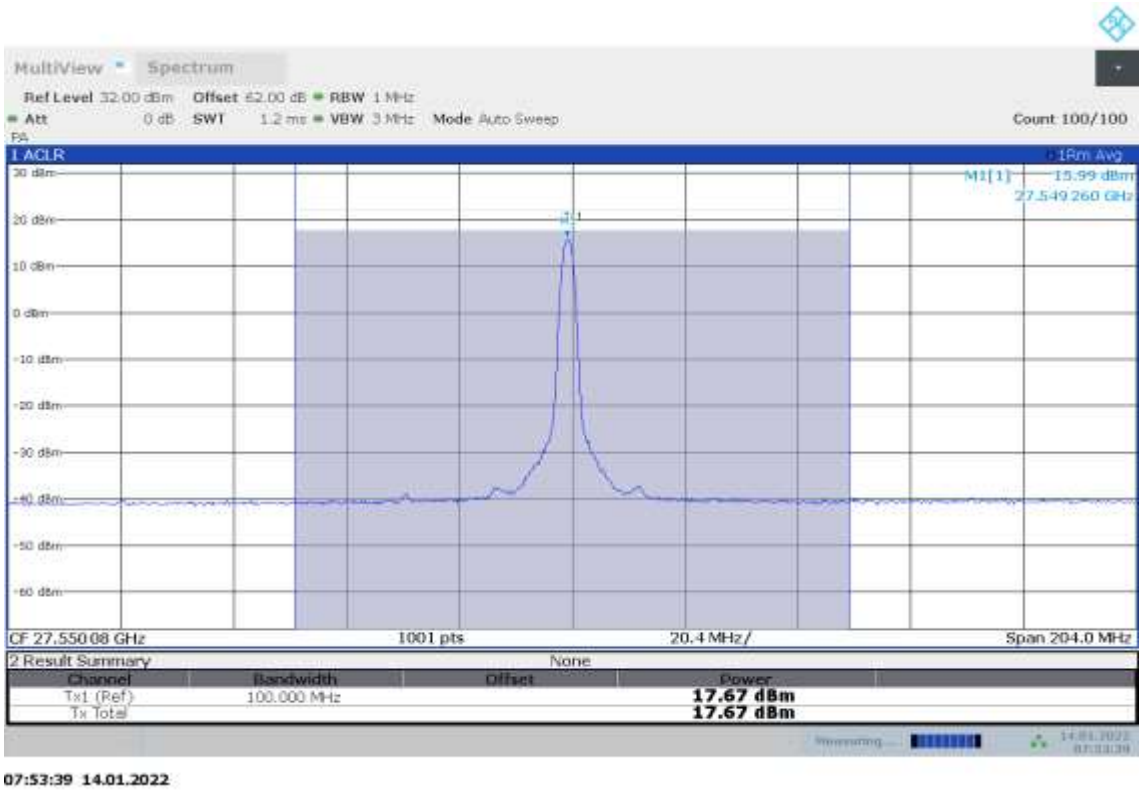
n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



07:36:41 14.01.2022

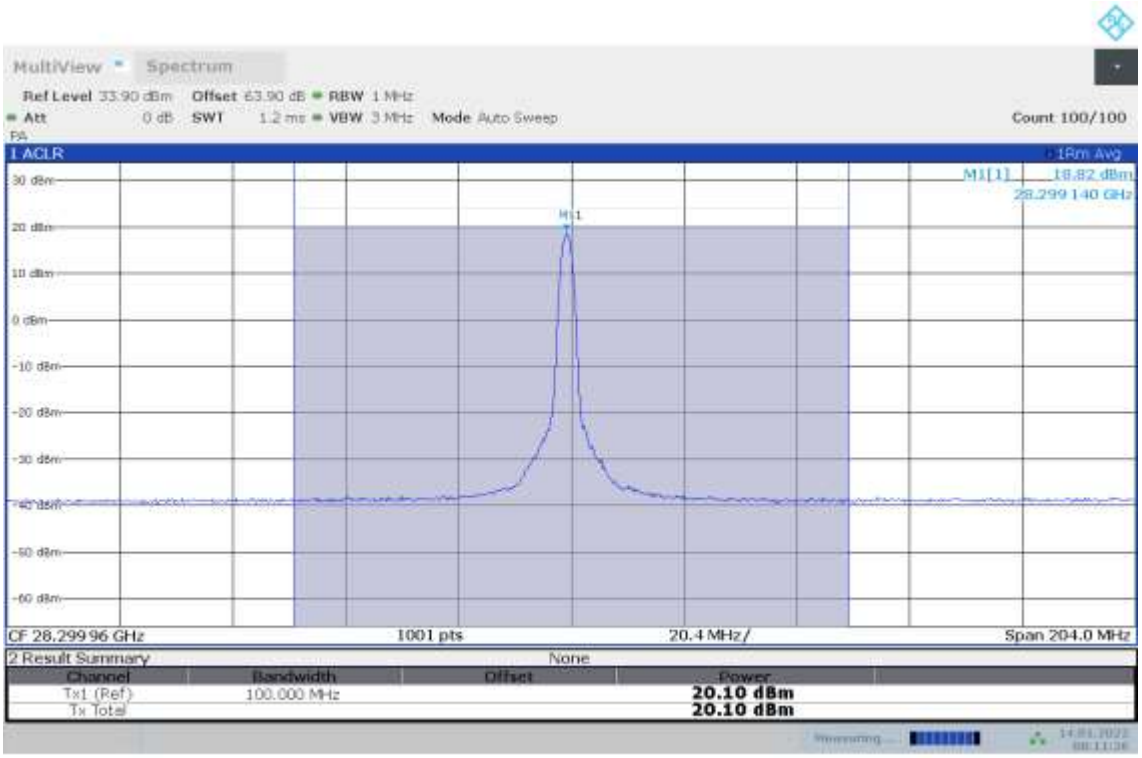
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27550.08	/	17.67	/

n261, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, 16QAM



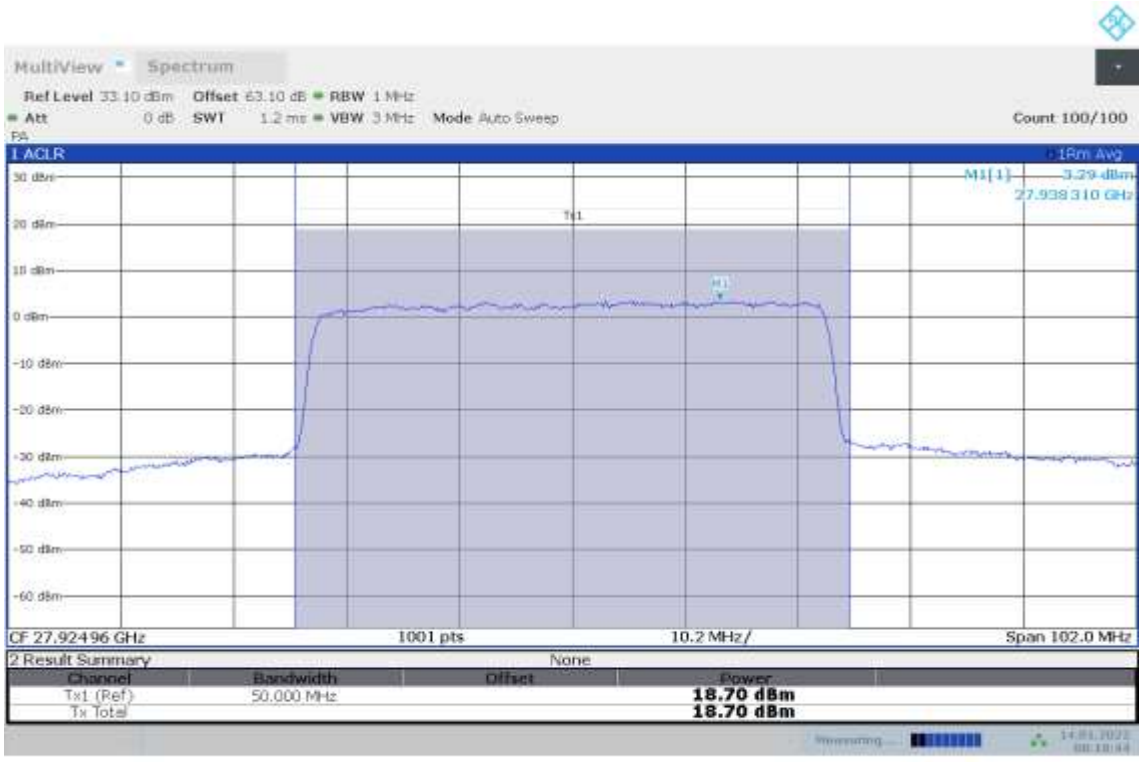
n261, Module0, SCS=120kHz, CP-OFDM					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	28299.96	/	20.10	/

n261, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, 16QAM



n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27924.96	18.70	16.95	15.13

n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK

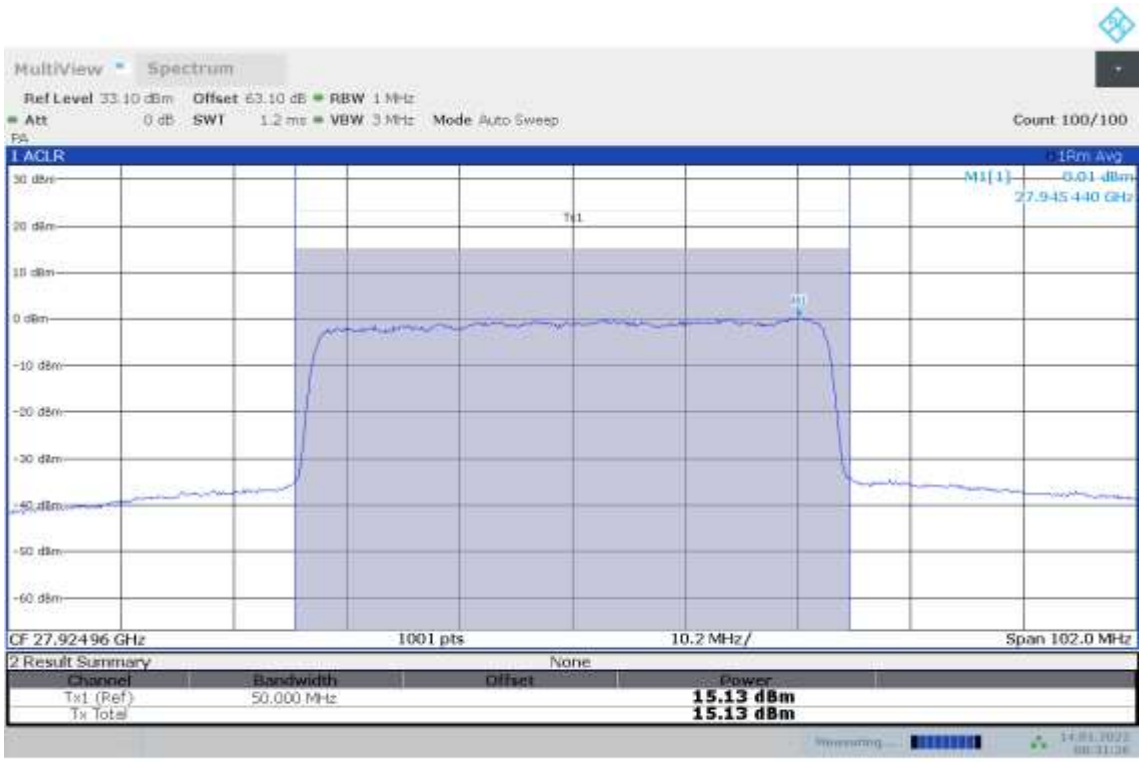


08:18:44 14.01.2022

n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM

08:23:28 14.01.2022

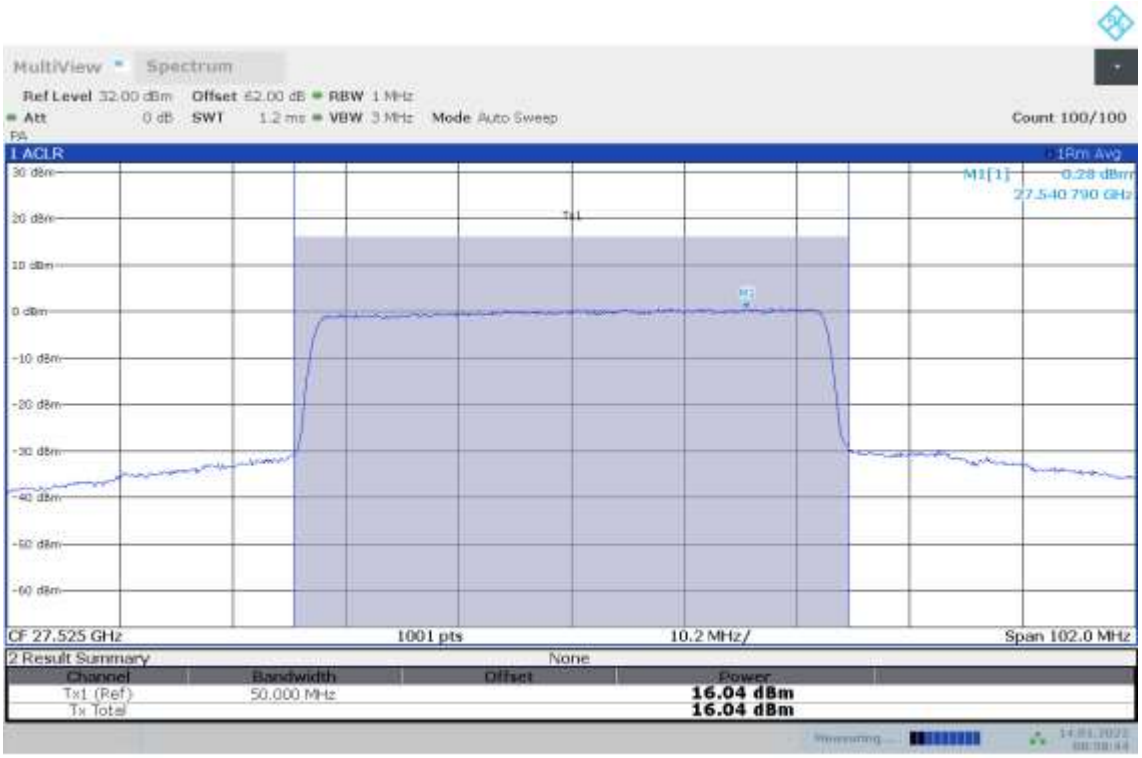
n261, Module0, 50MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



08:31:27 14.01.2022

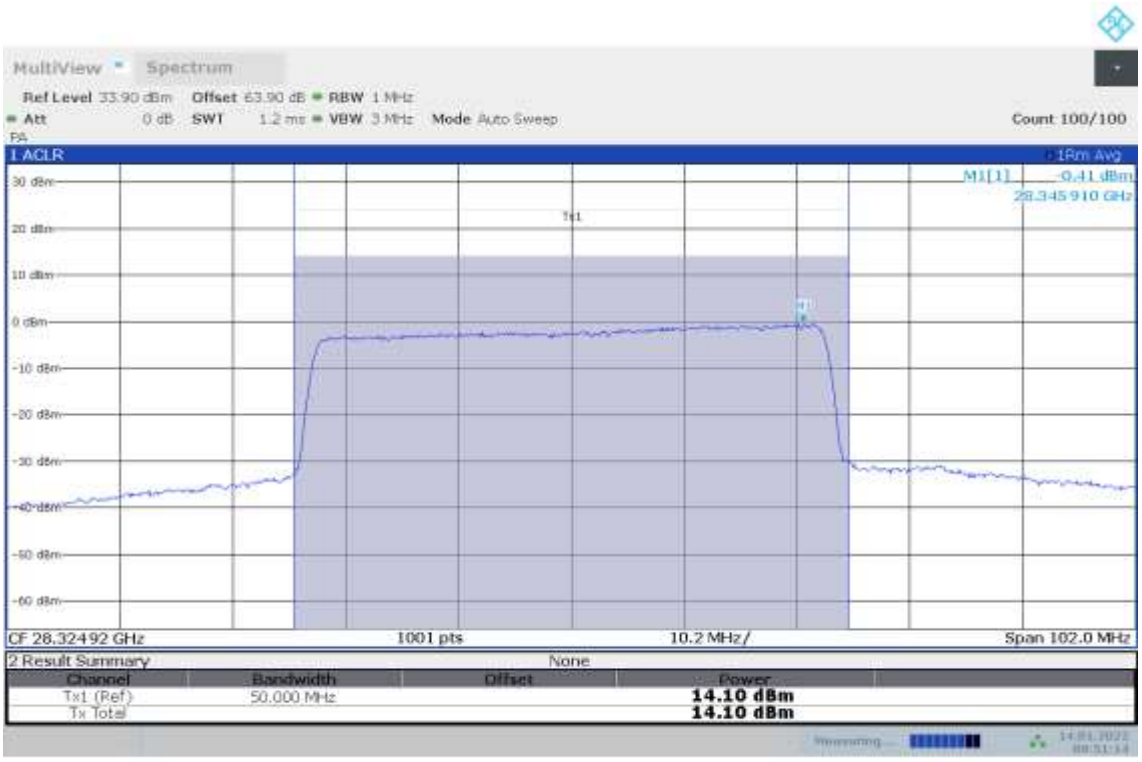
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	16.04	/	/

n261, Module0, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	28324.92	14.10	/	/

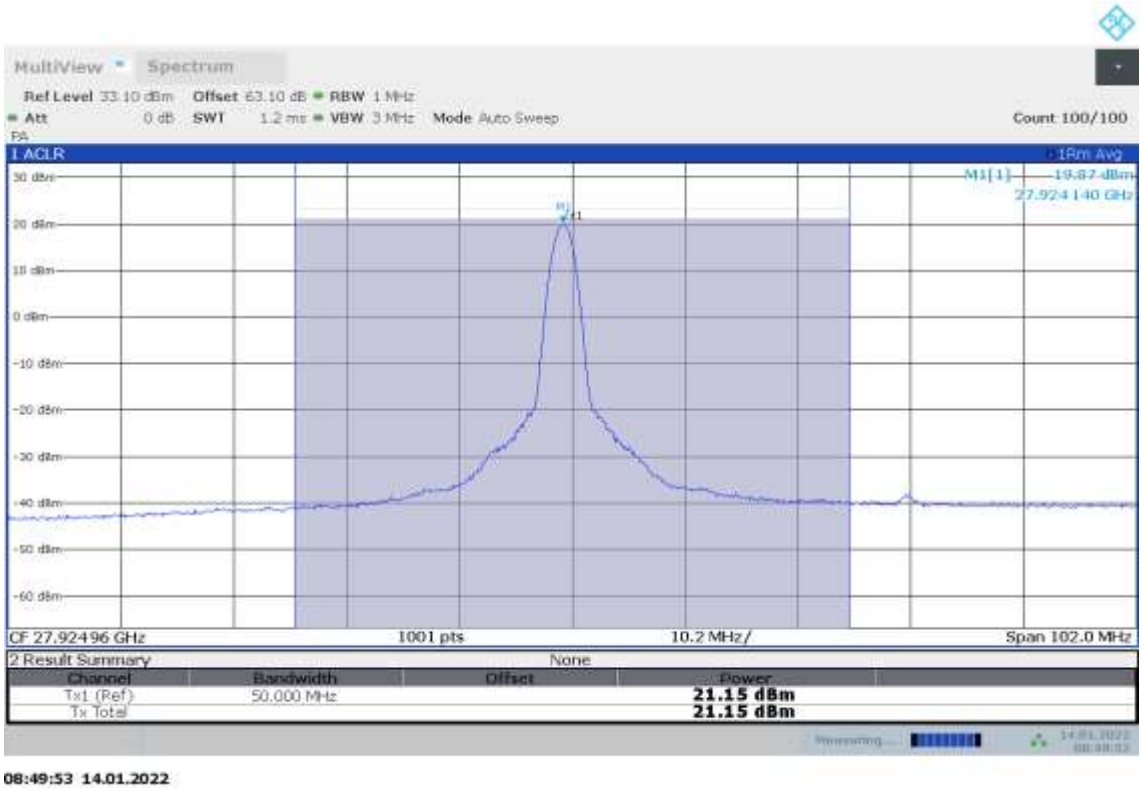
n261, Module0, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



09:51:15 14.01.2022

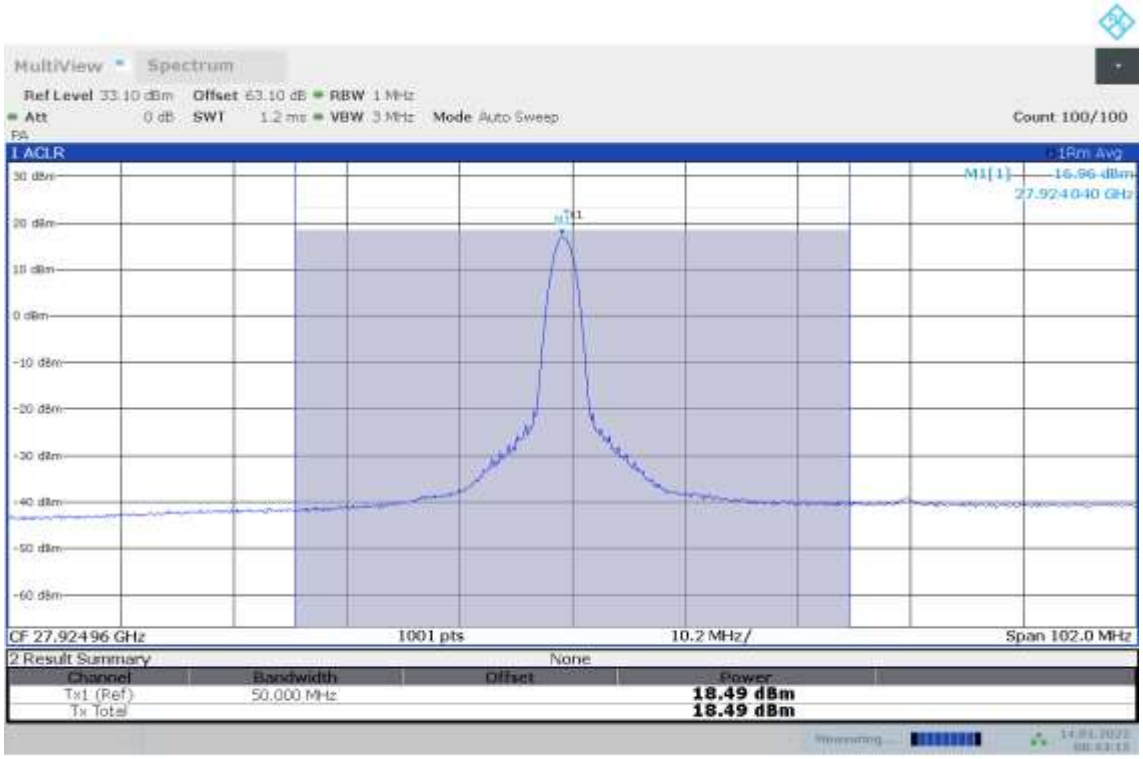
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27924.96	21.15	18.49	16.60

n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK



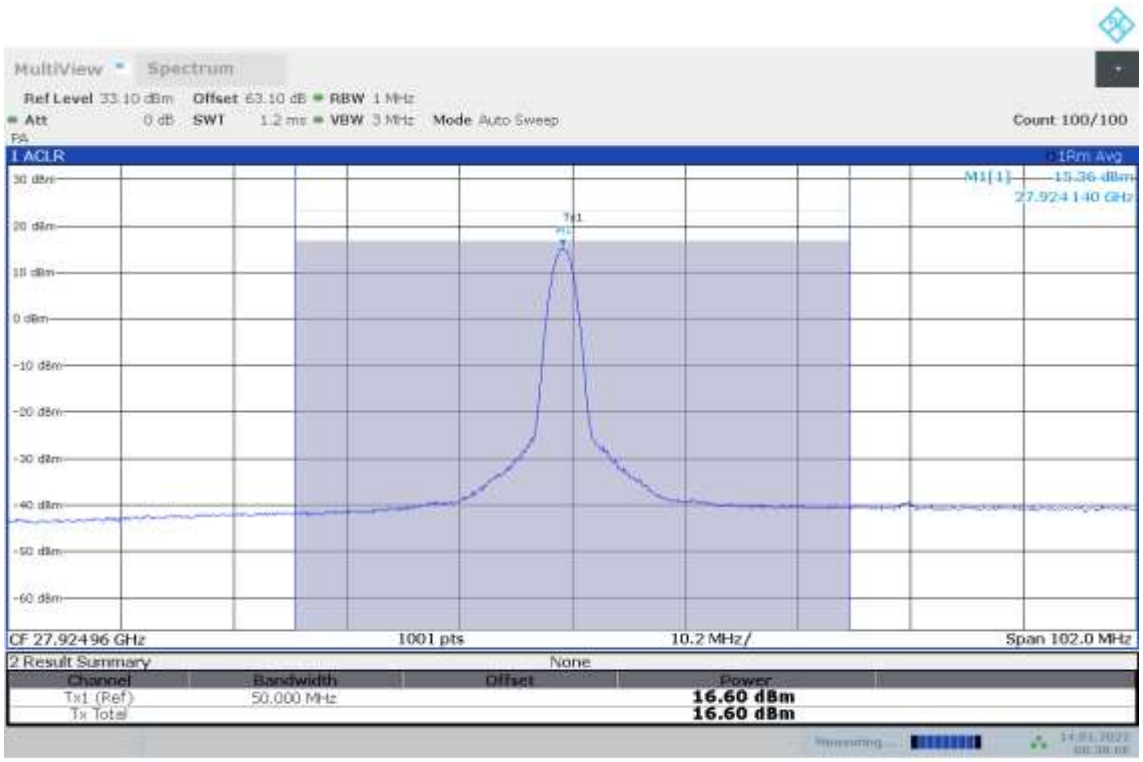
08:49:53 14.01.2022

n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



08:43:15 14.01.2022

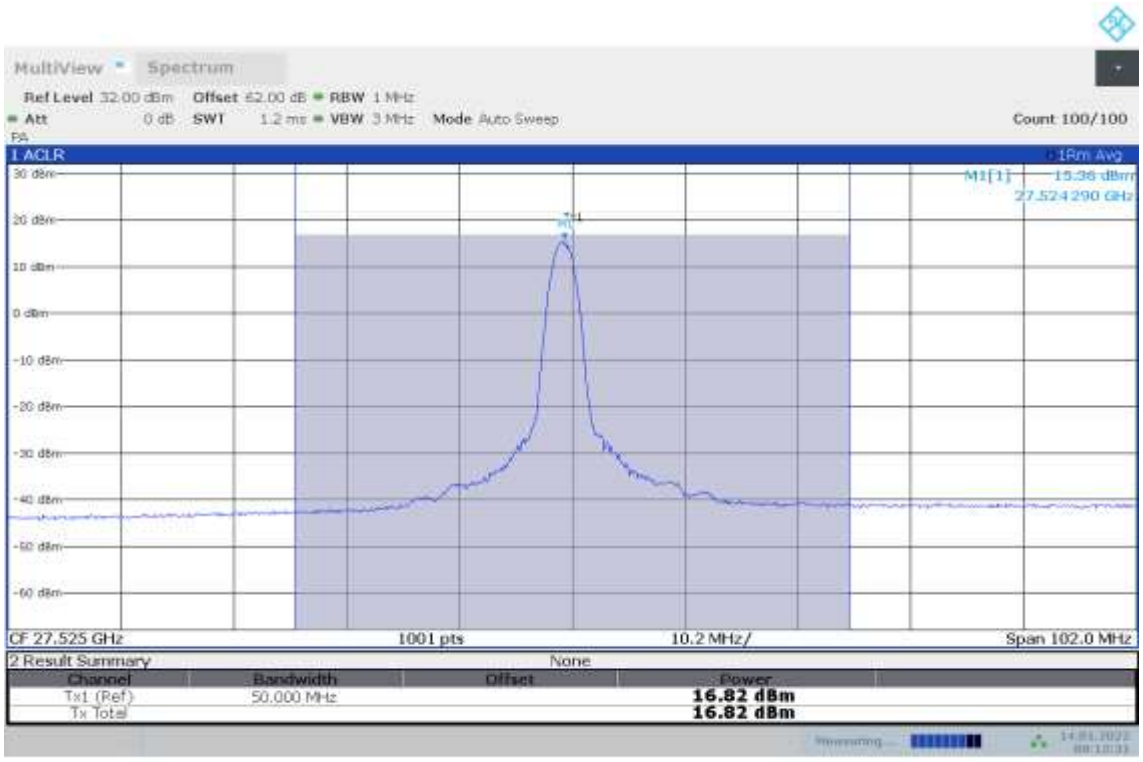
n261, Module0, 50MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



08:38:07 14.01.2022

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27525	16.82	/	/

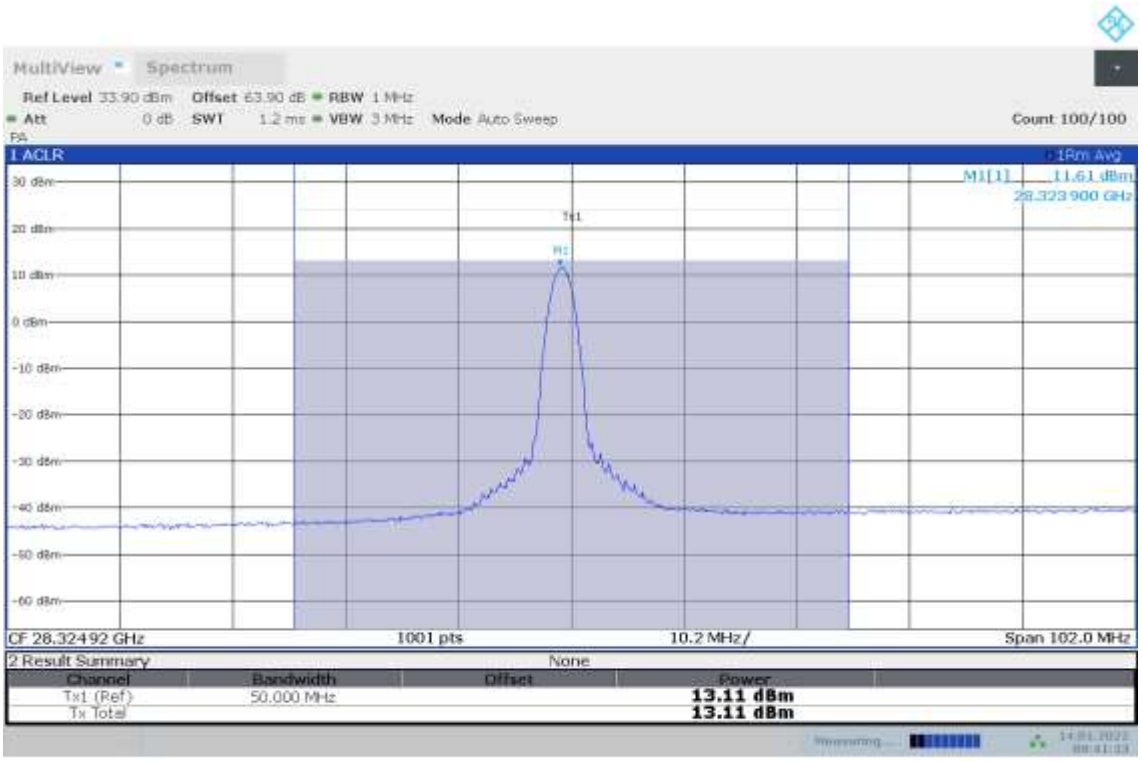
n261, Module0, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



09:12:32 14.01.2022

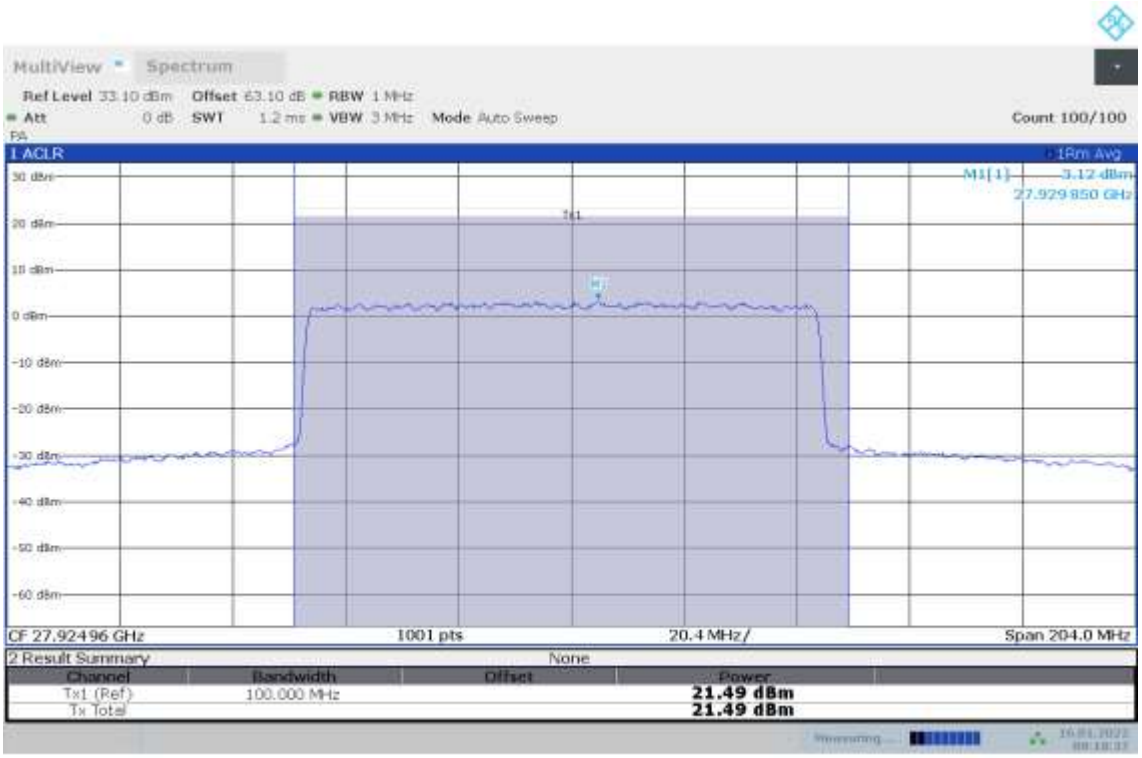
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	28324.92	13.11	/	/

n261, Module0, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK

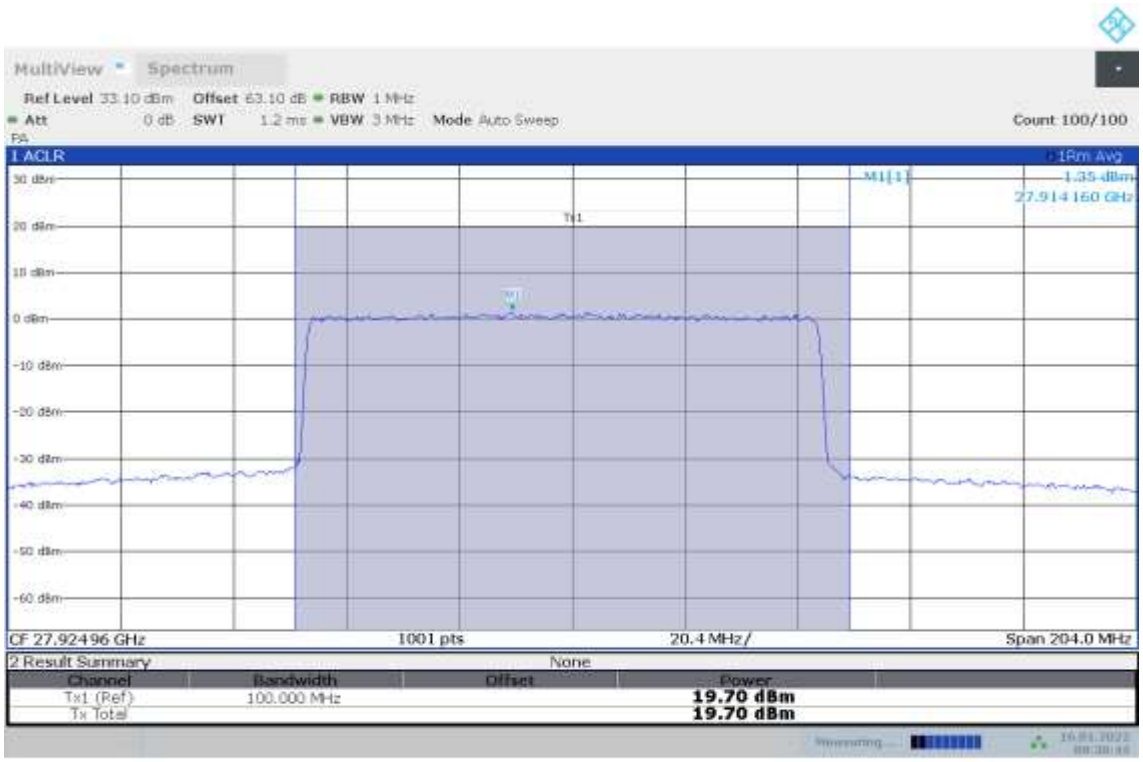


n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27924.96	21.49	19.70	17.73

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK

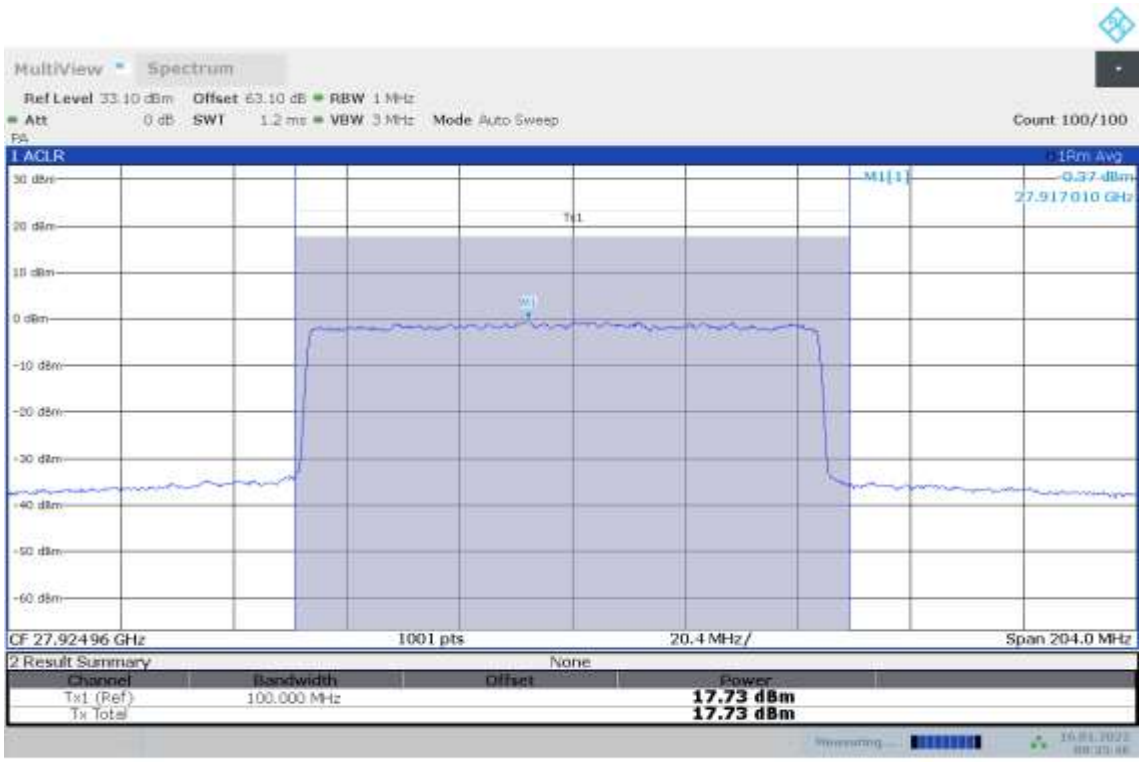


n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 16QAM



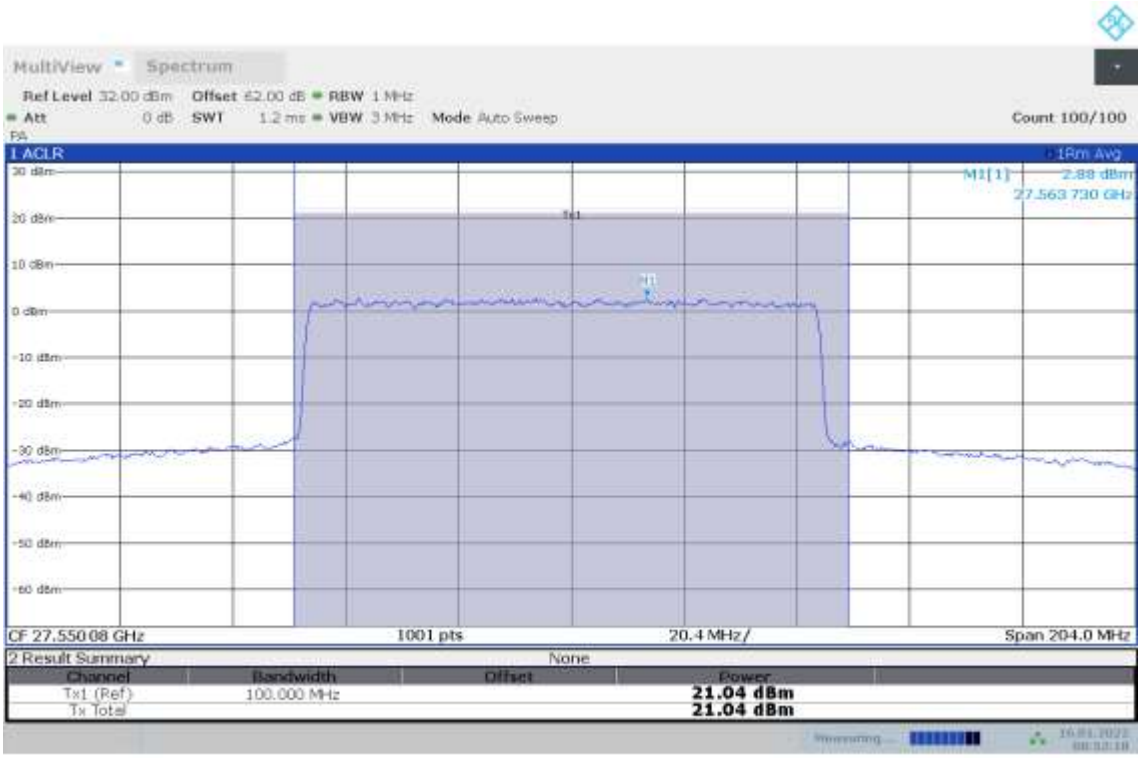
09:30:45 16.01.2022

n261, Module0, 100MHz Bandwidth, 100% RB, MID CHANNEL, 64QAM



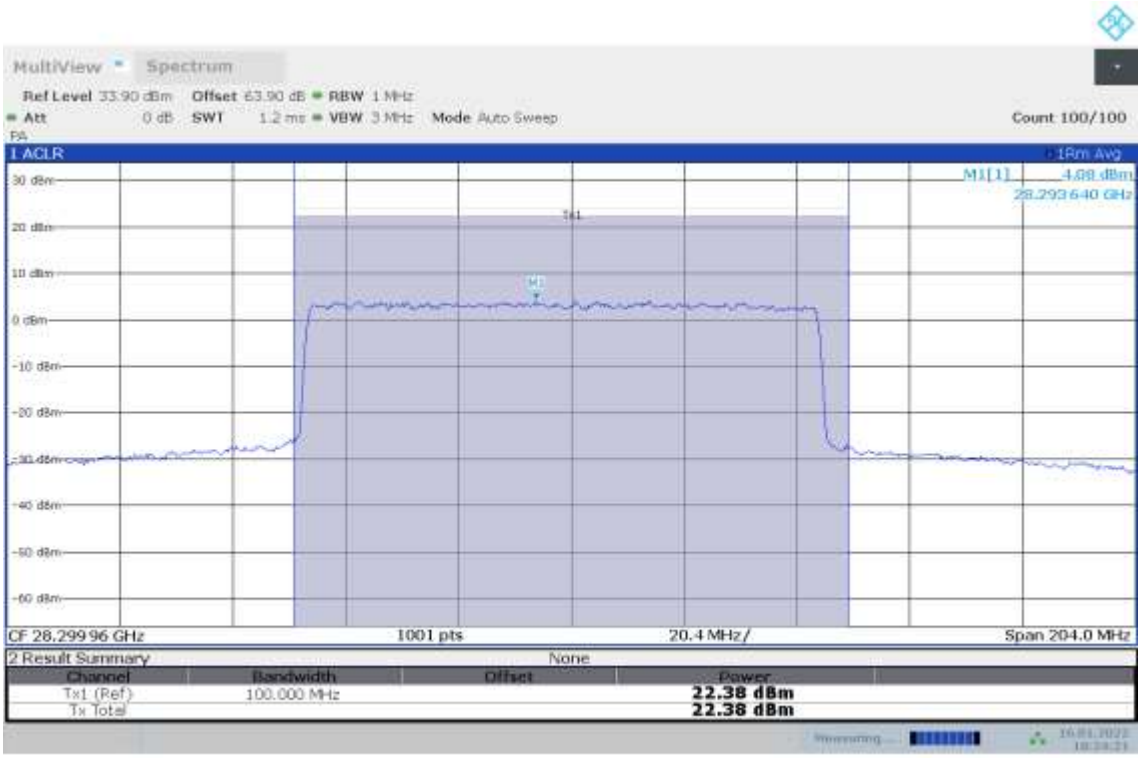
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27550.08	21.04	/	/

n261, Module0, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	28299.96	22.38	/	/

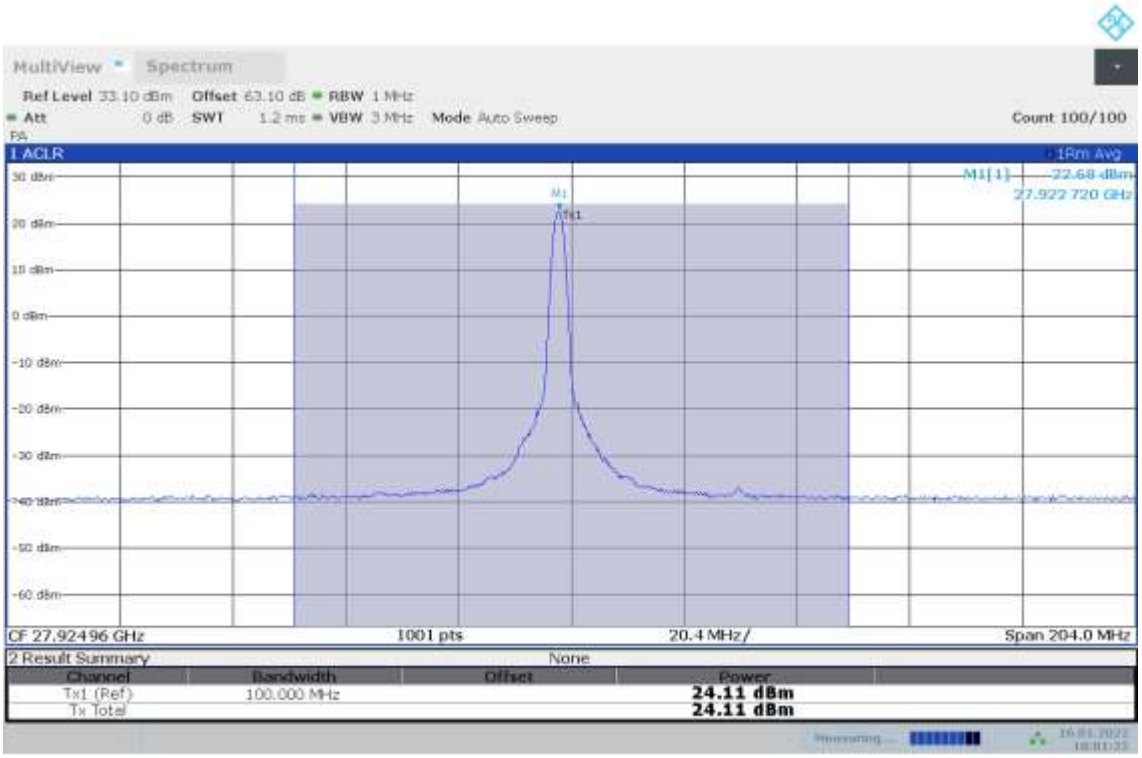
n261, Module0, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



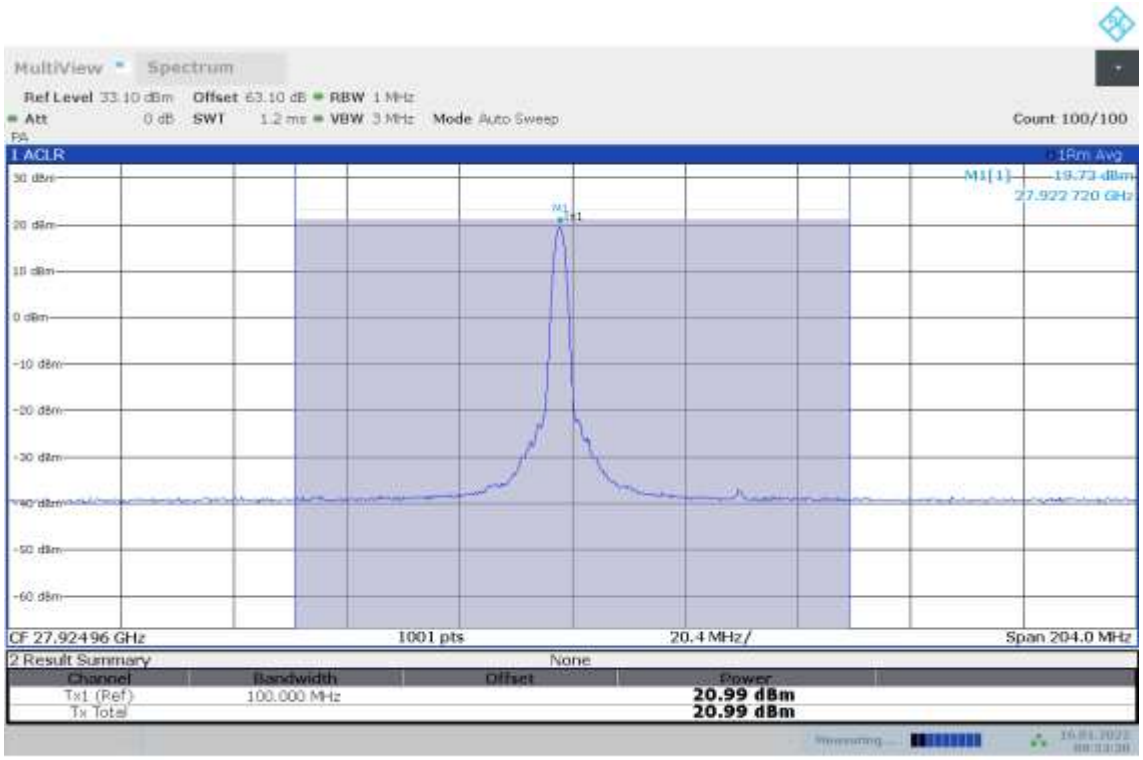
10:24:21 16.01.2022

n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27924.96	24.11	20.99	19.26

n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK

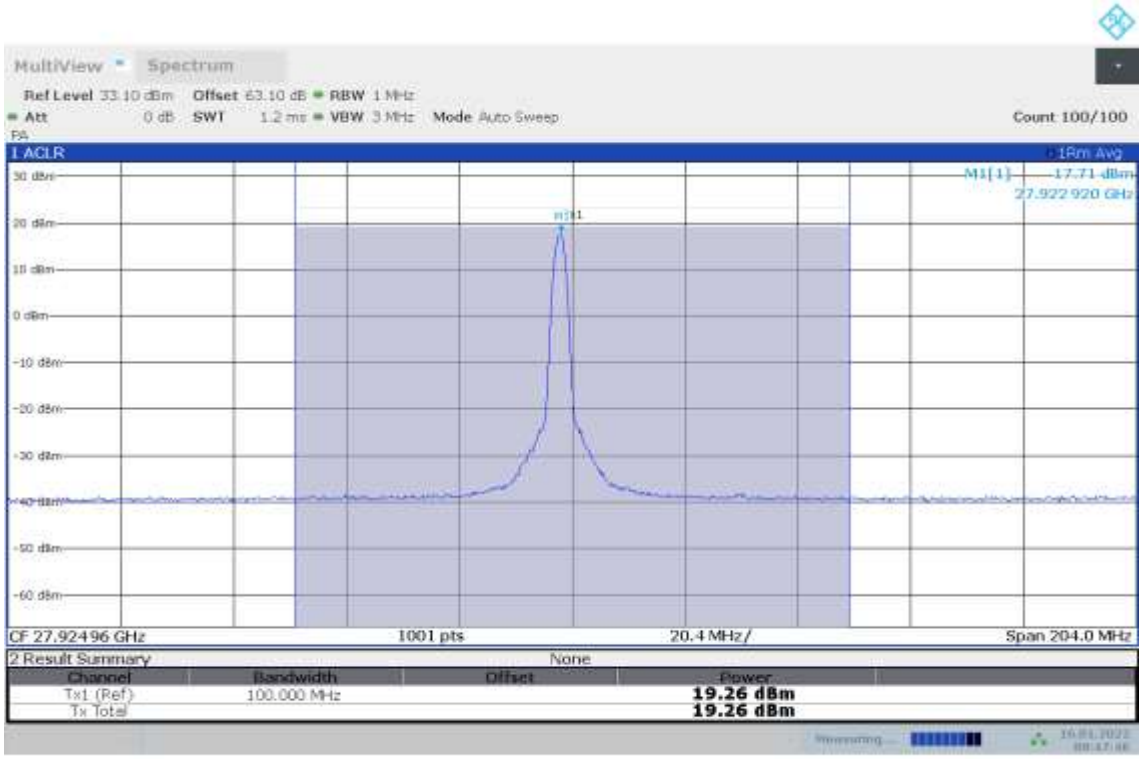


n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 16QAM



09:53:31 16.01.2022

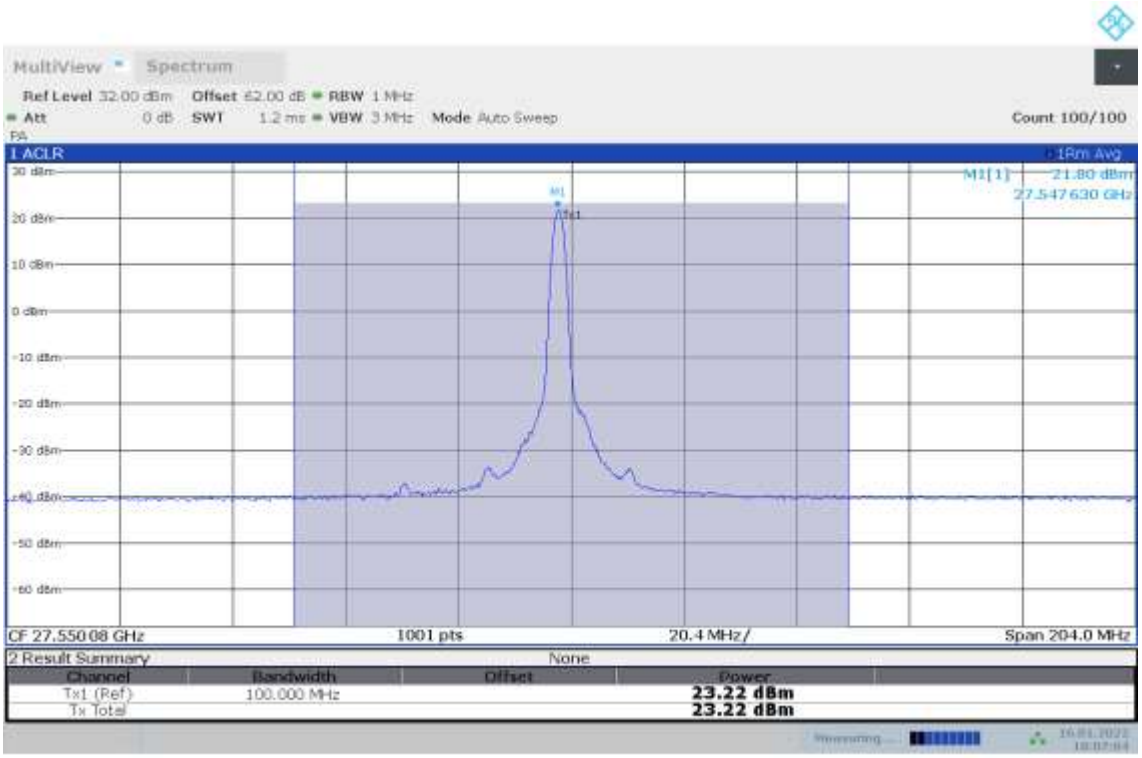
n261, Module0, 100MHz Bandwidth, 1RB, MID CHANNEL, 64QAM



09:47:46 16.01.2022

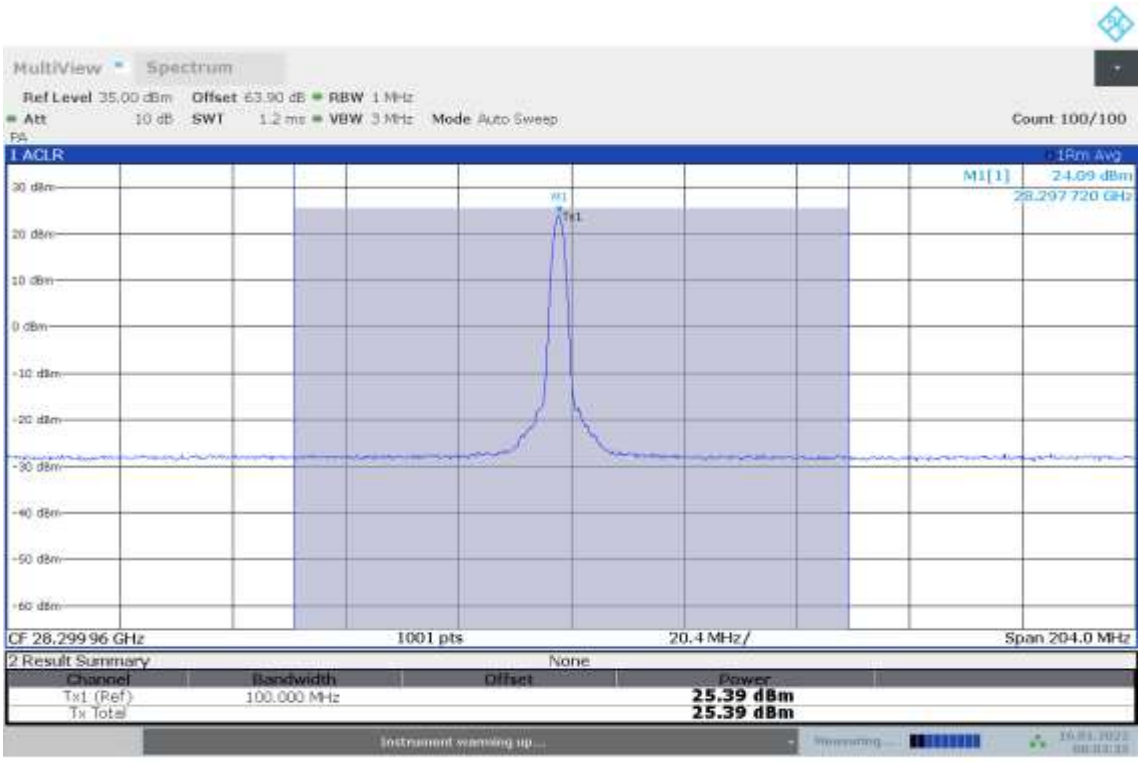
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27550.08	23.22	/	/

n261, Module0, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



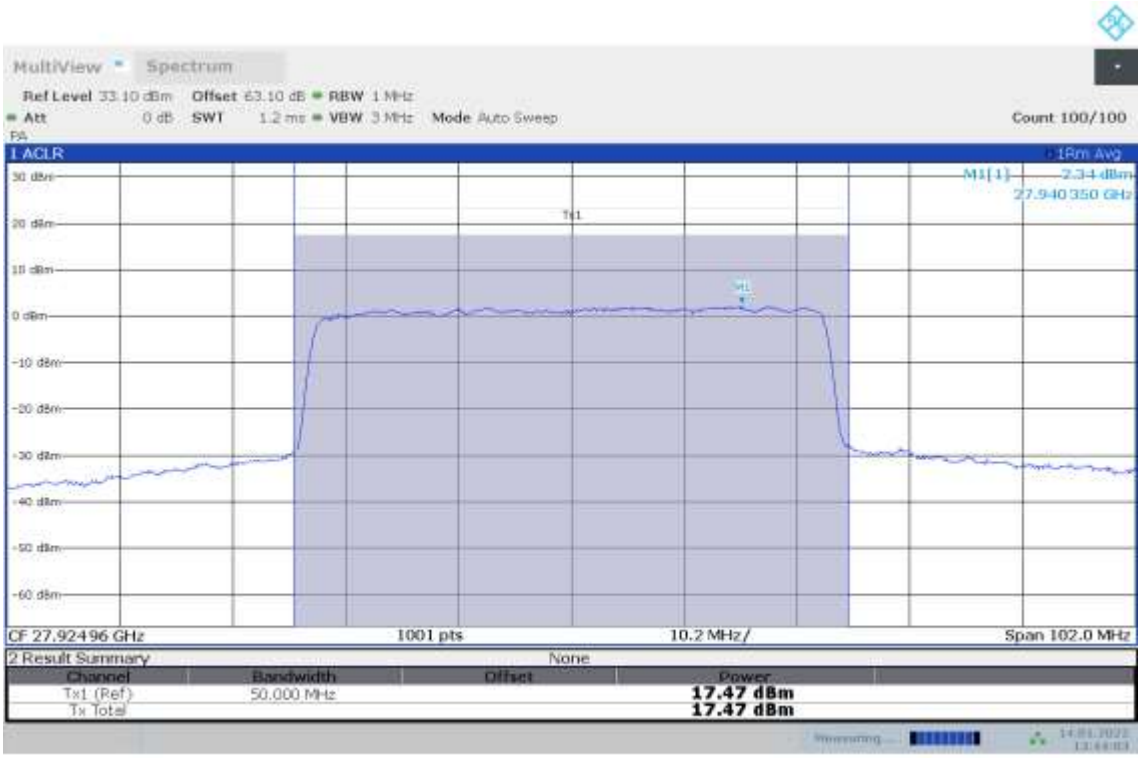
n261, Module0, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	28299.96	25.39	/	/

n261, Module0, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27924.96	17.47	/	/

n261, Module1, 50MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



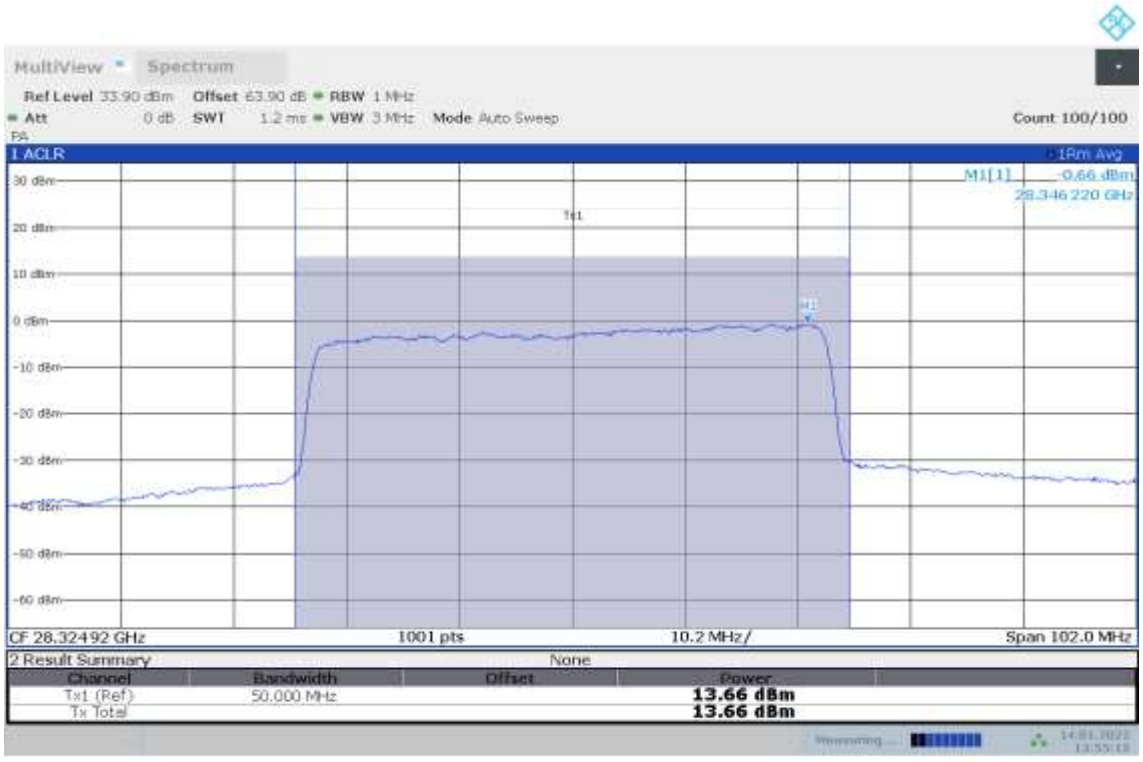
n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	27525	18.80	/	/

n261, Module1, 50MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK

13:32:50 14.01.2022

n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	100% RB	28324.92	13.66	/	/

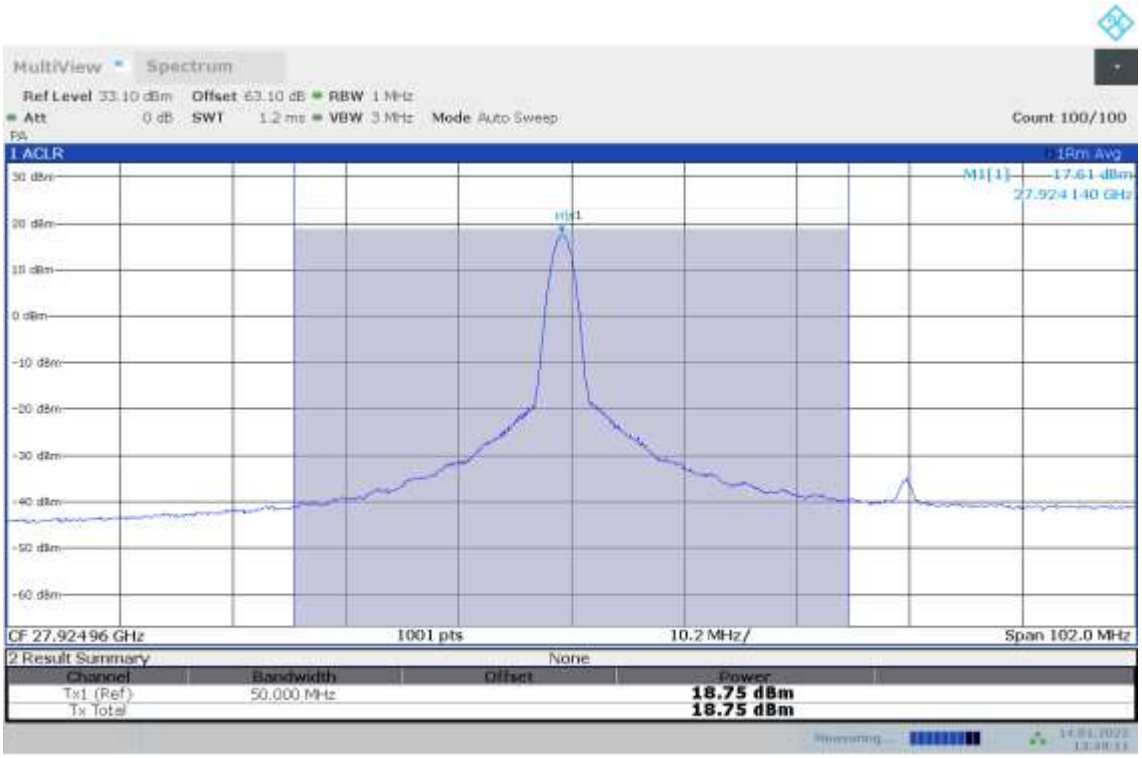
n261, Module1, 50MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



13:55:15 14.01.2022

n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27924.96	18.75	/	/

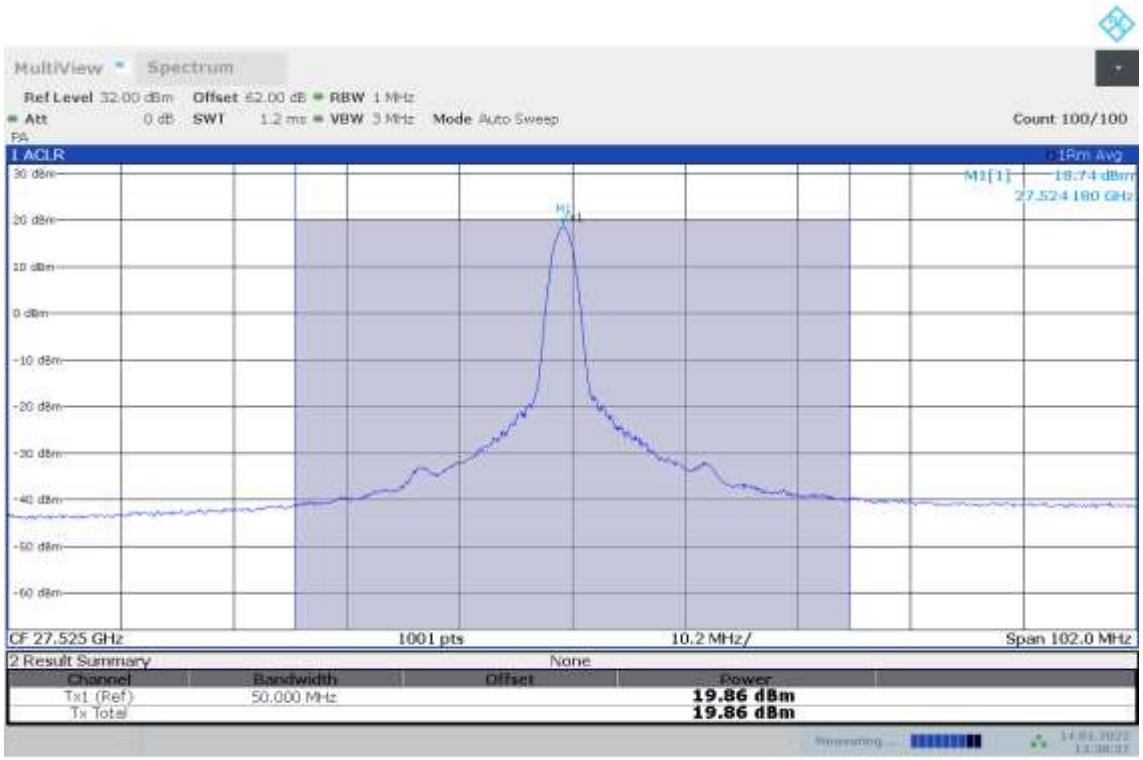
n261, Module1, 50MHz Bandwidth, 1RB, MID CHANNEL, QPSK



13:49:11 14.01.2022

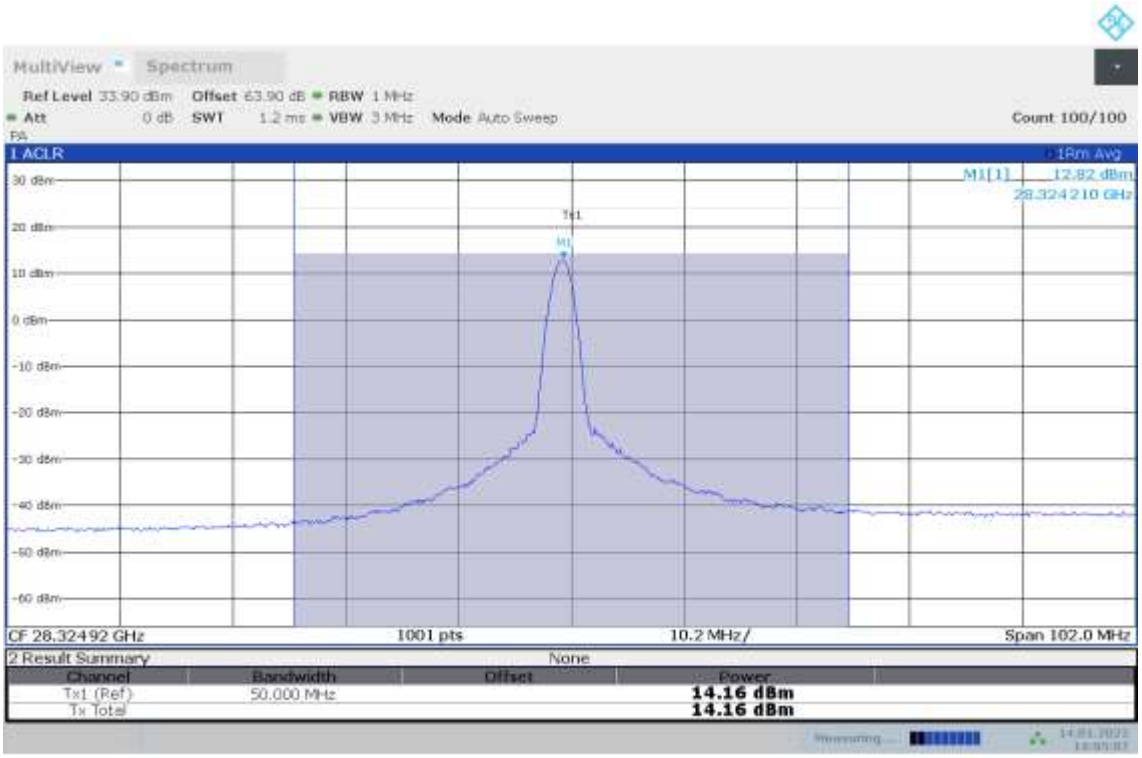
n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	27525	19.86	/	/

n261, Module1, 50MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK



n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
50MHz	1 RB	28324.92	14.16	/	/

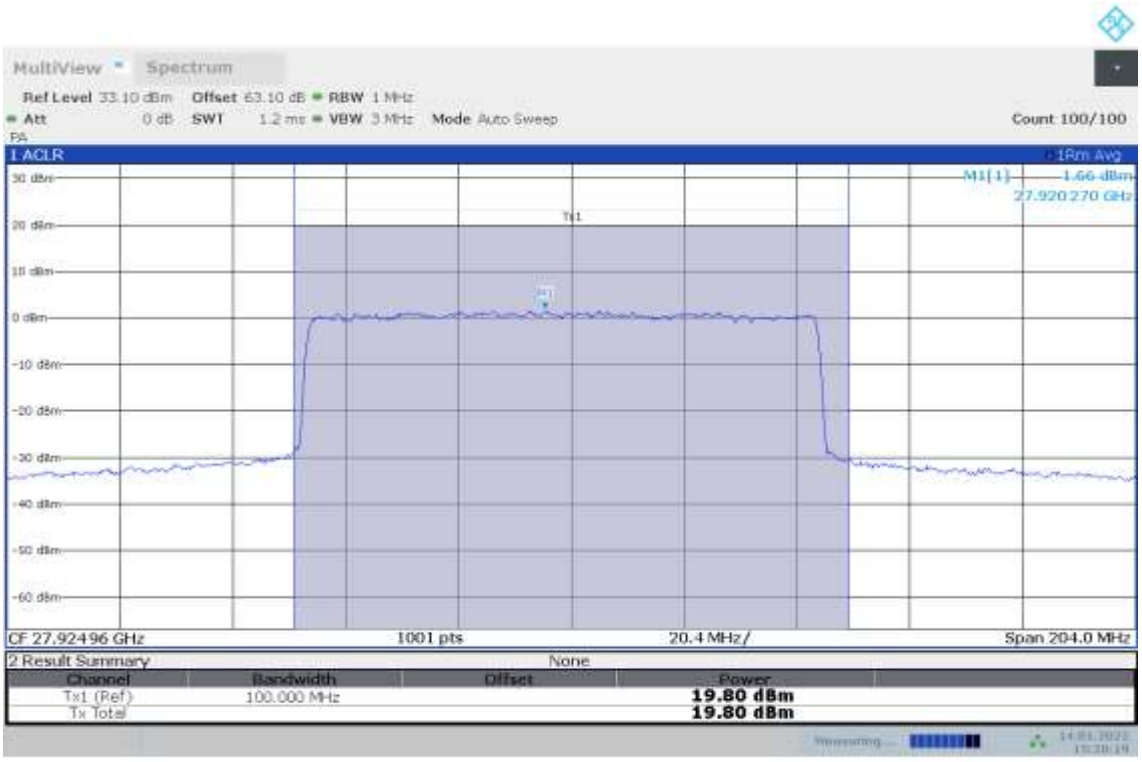
n261, Module1, 50MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK



14:05:07 14.01.2022

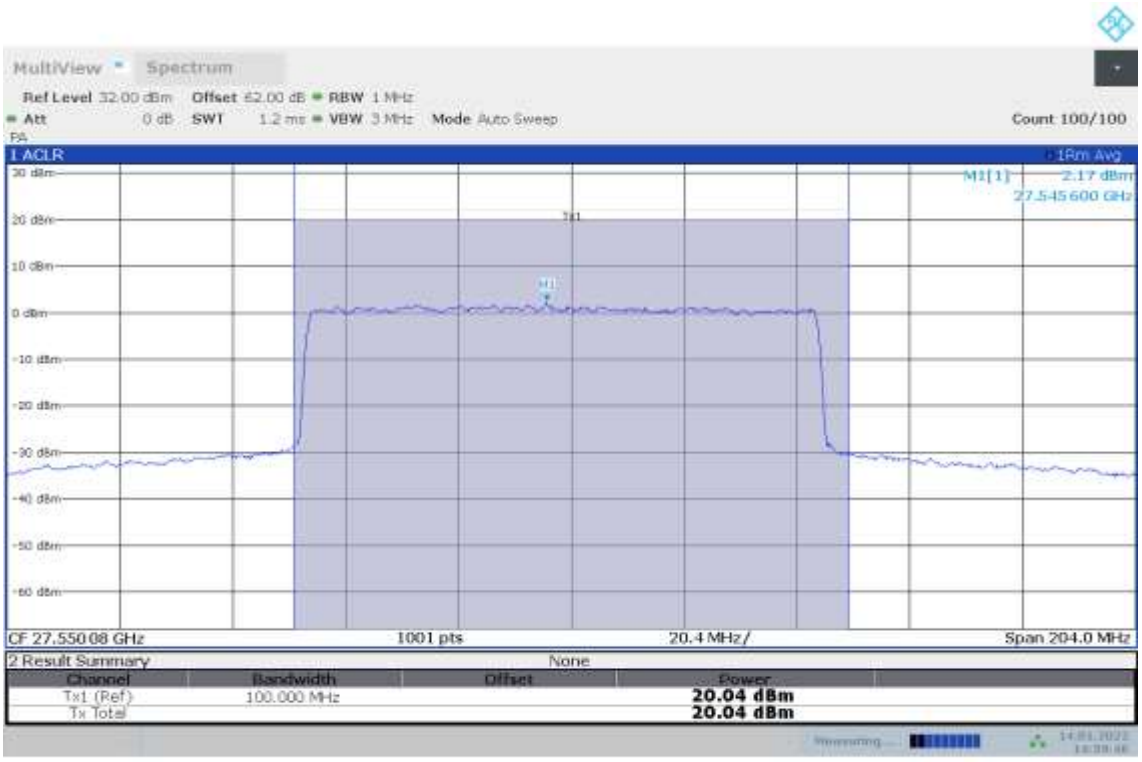
n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27924.96	19.80	/	/

n261, Module1, 100MHz Bandwidth, 100% RB, MID CHANNEL, QPSK



n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	27550.08	20.04	/	/

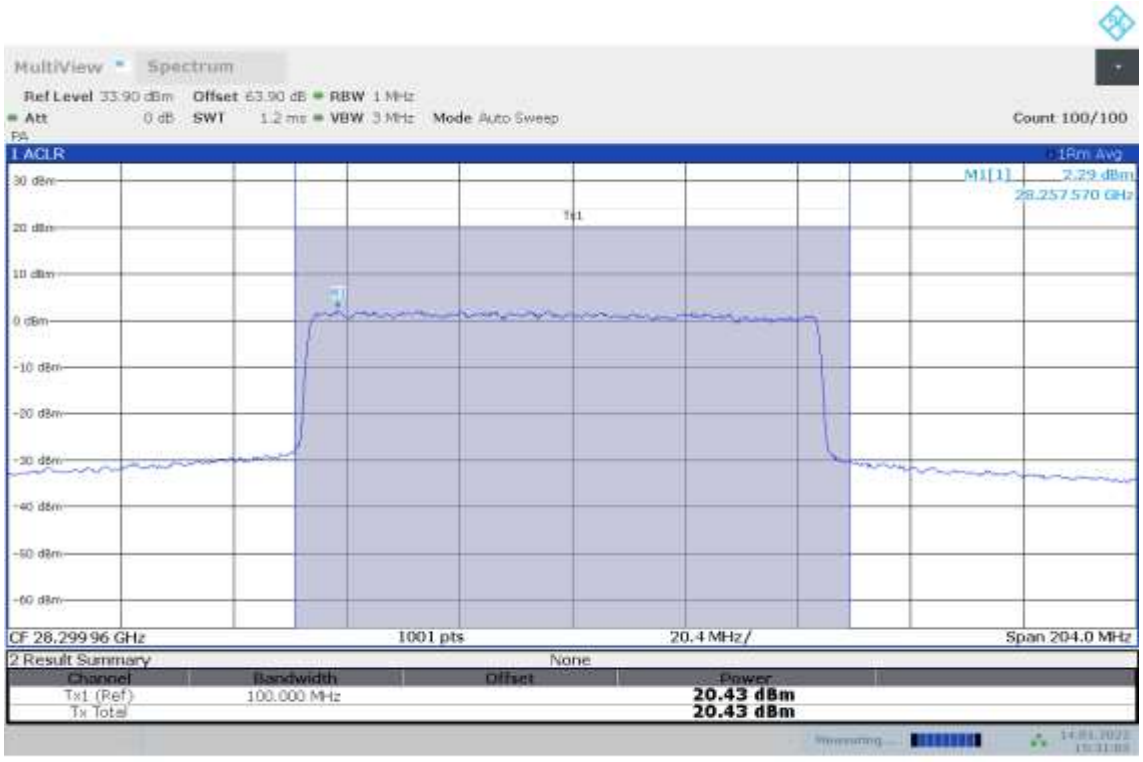
n261, Module1, 100MHz Bandwidth, 100% RB, LOW CHANNEL, QPSK



14:59:46 14.01.2022

n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	100% RB	28299.96	20.43	/	/

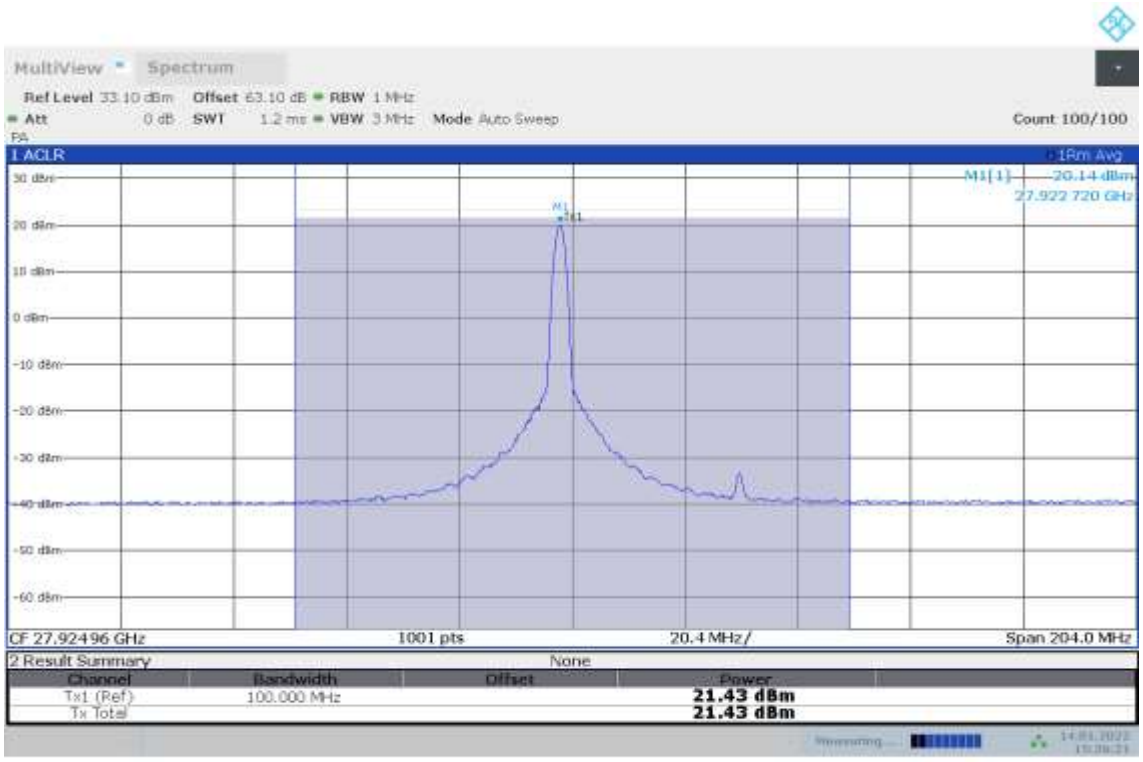
n261, Module1, 100MHz Bandwidth, 100% RB, HIGH CHANNEL, QPSK



15:31:06 14.01.2022

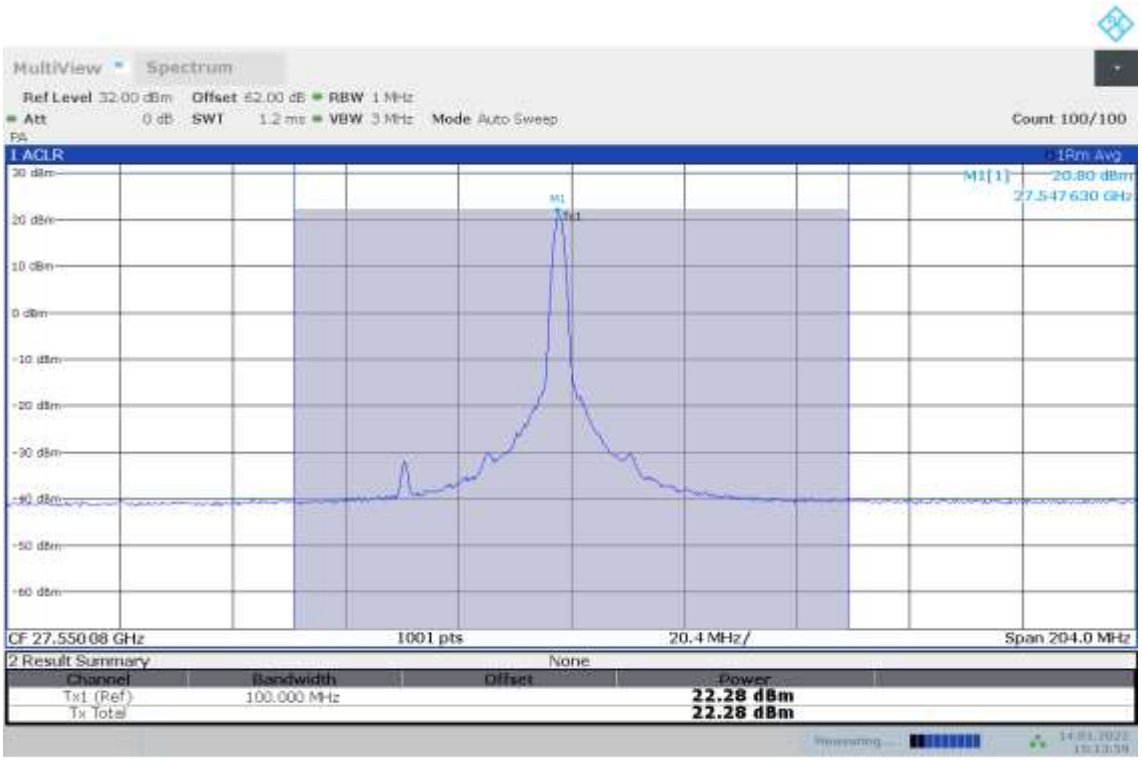
n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27924.96	21.43	/	/

n261, Module1, 100MHz Bandwidth, 1RB, MID CHANNEL, QPSK



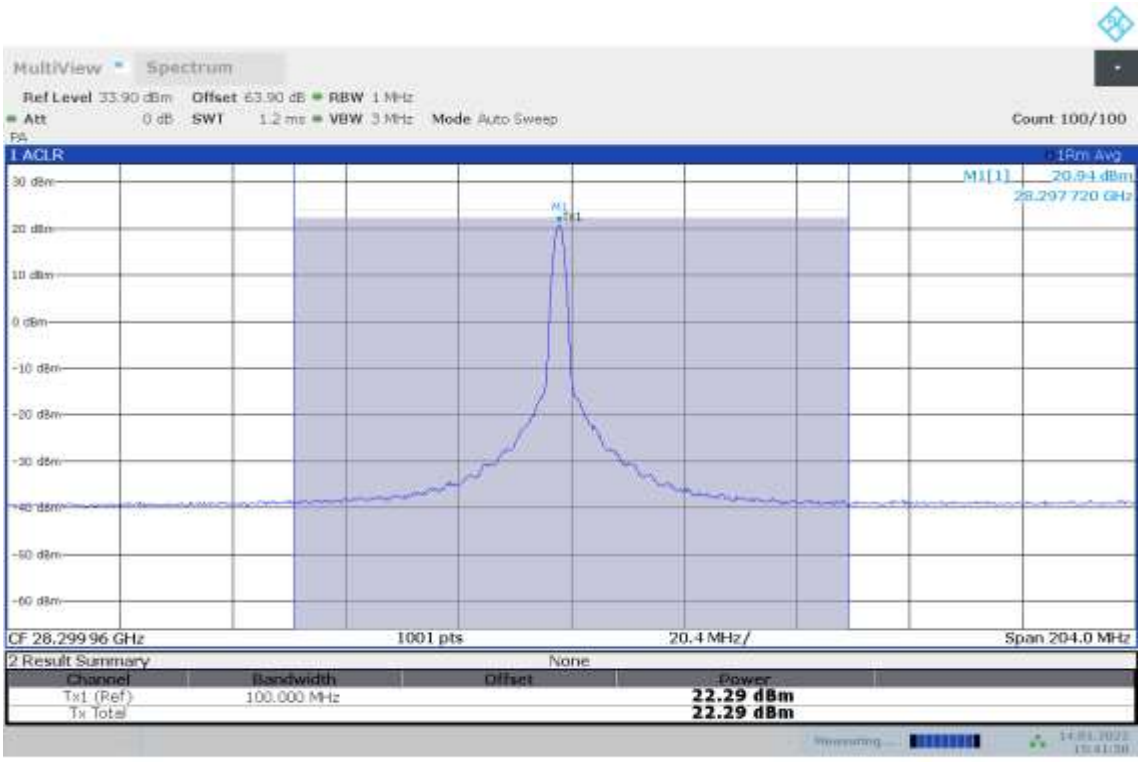
n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	27550.08	22.28	/	/

n261, Module1, 100MHz Bandwidth, 1 RB, LOW CHANNEL, QPSK

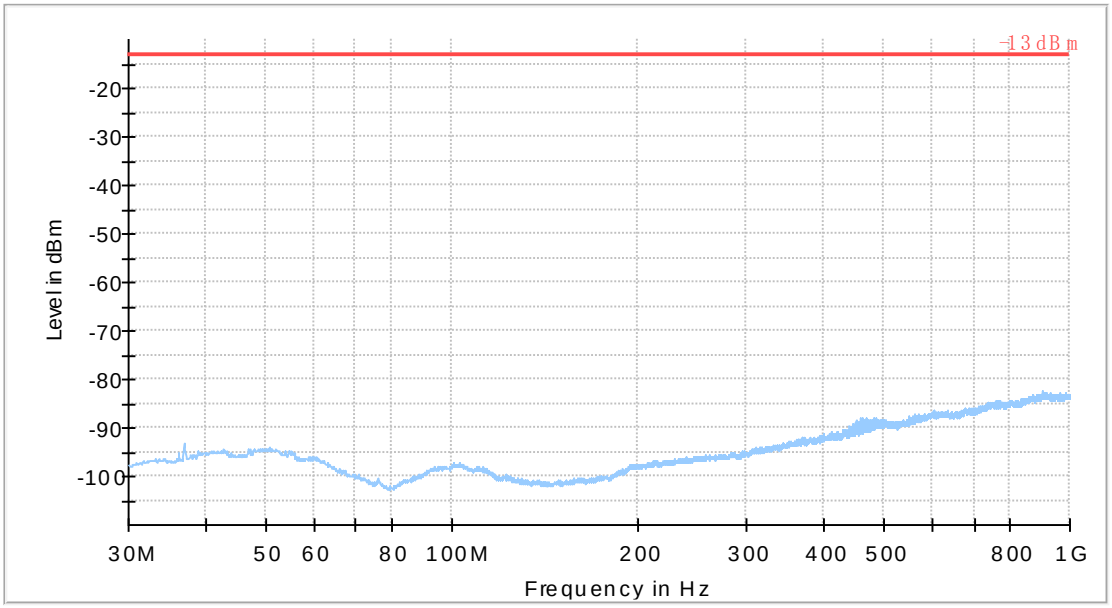


n261, Module1, SCS=120kHz, PUSCH DFT					
Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
100MHz	1 RB	28299.96	22.29	/	/

n261, Module1, 100MHz Bandwidth, 1 RB, HIGH CHANNEL, QPSK

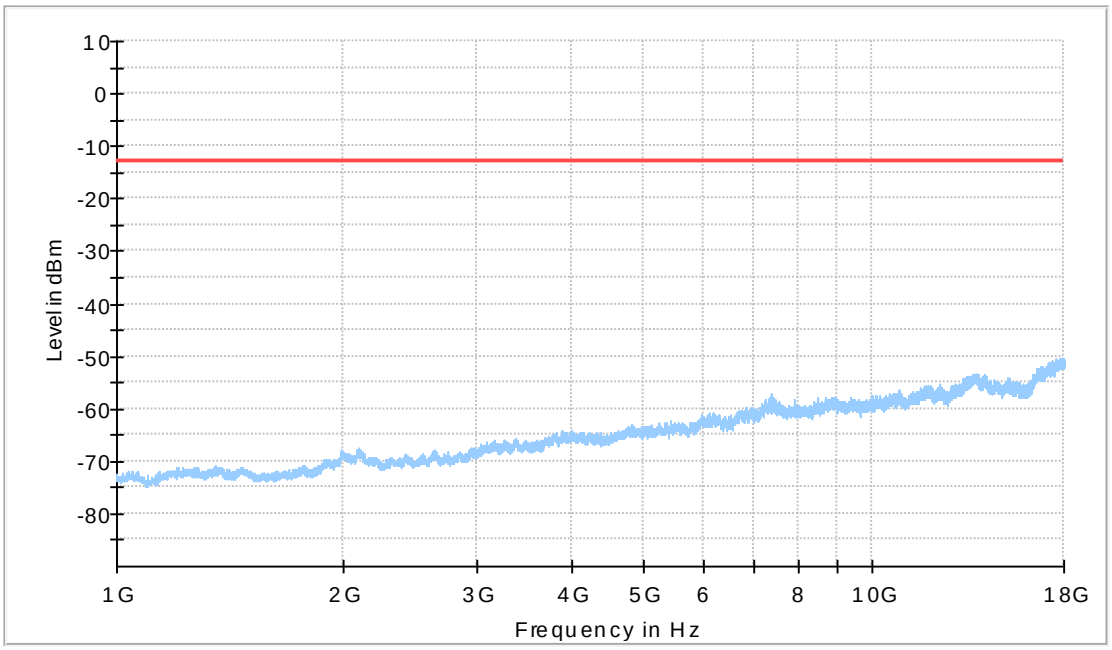


D.2 Emission Plots



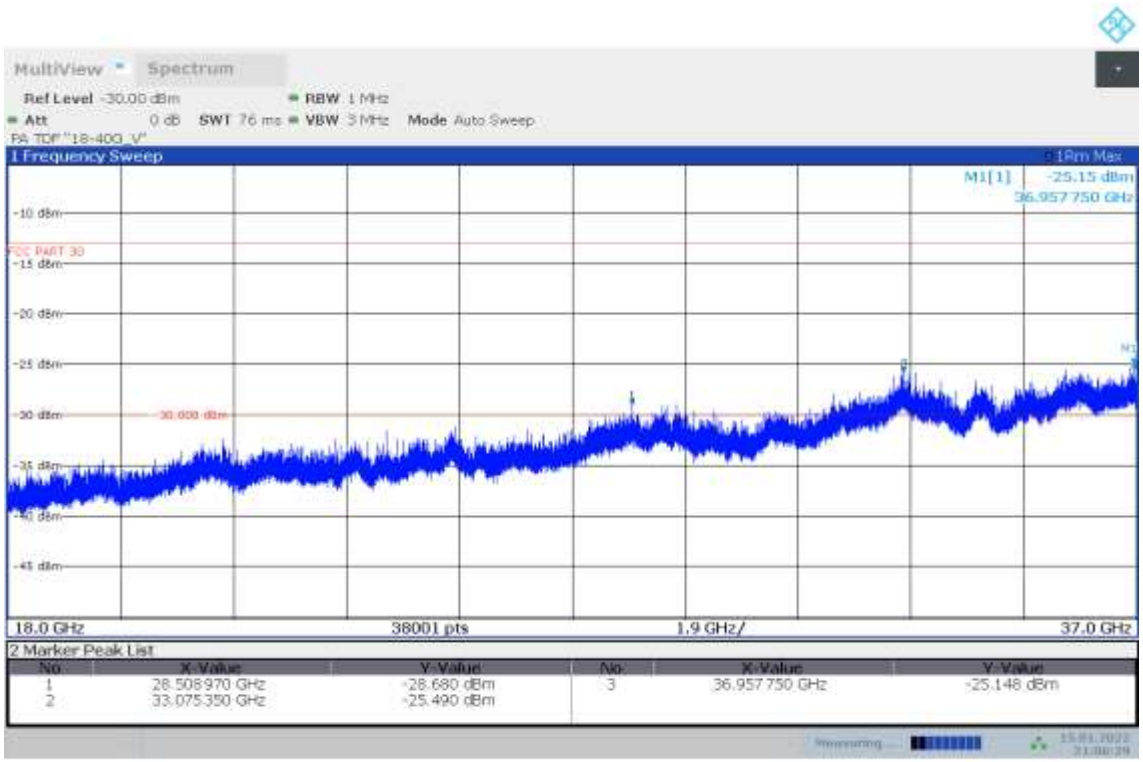
Preview Result 1-RMS [Preview Result 1.Result:1]
Critical_Freqs RMS [Critical_Freqs.Result:4]
-13dBm [..\]
Final_Result PK+ [Final_Result.Result:4]

30MHz-1GHz



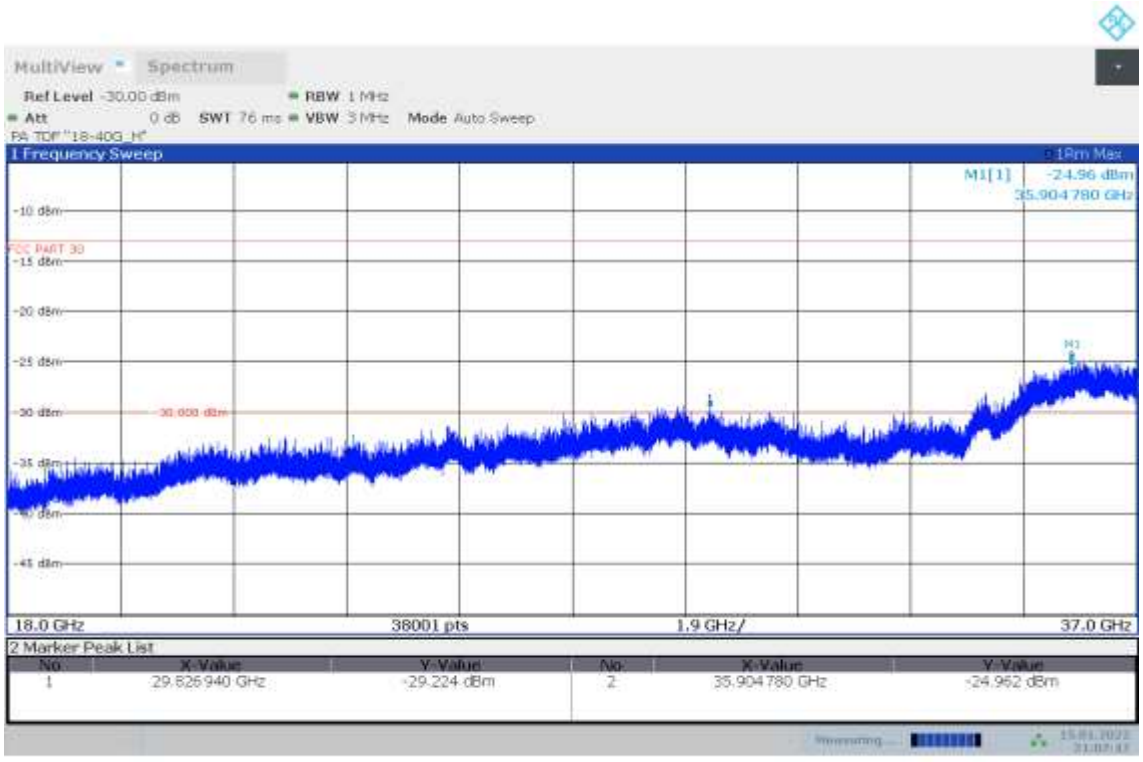
Preview Result 1-RMS [Preview Result 1.Result:1]
Critical_Freqs RMS [Critical_Freqs.Result:4]
-13dBm [..\]
Final_Result RMS [Final_Result.Result:4]

1GHz-18GHz



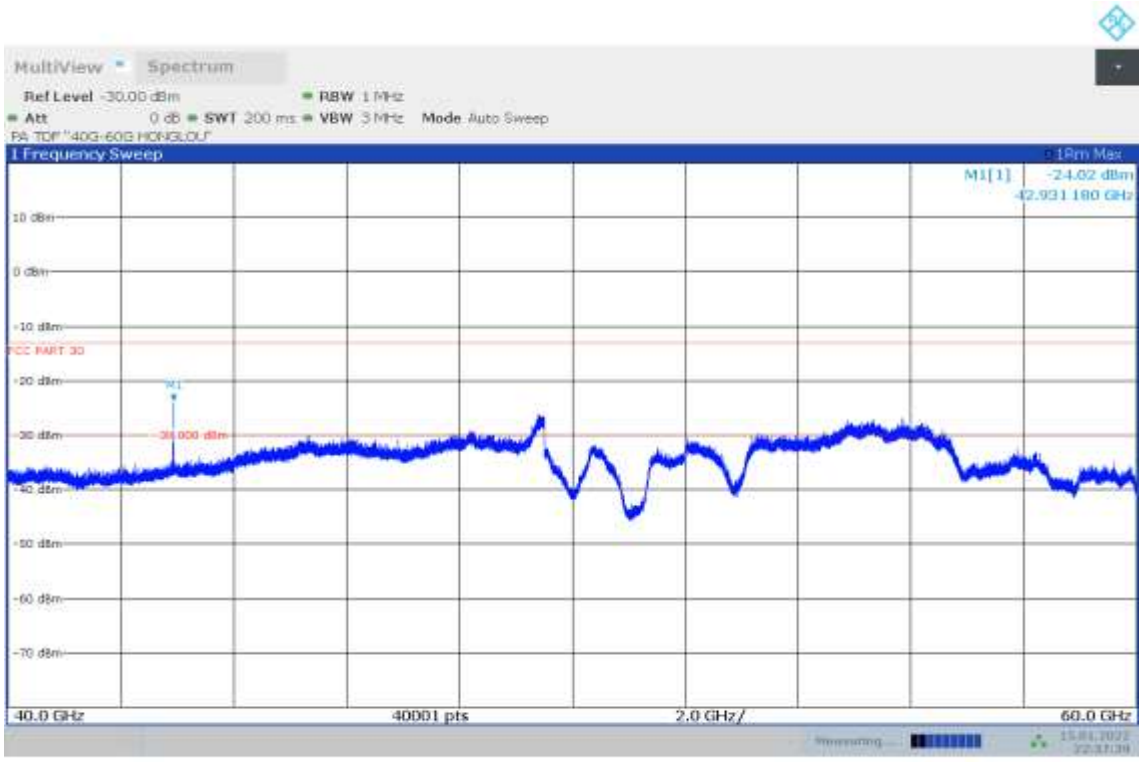
21:06:29 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 18GHz-40GHz, V



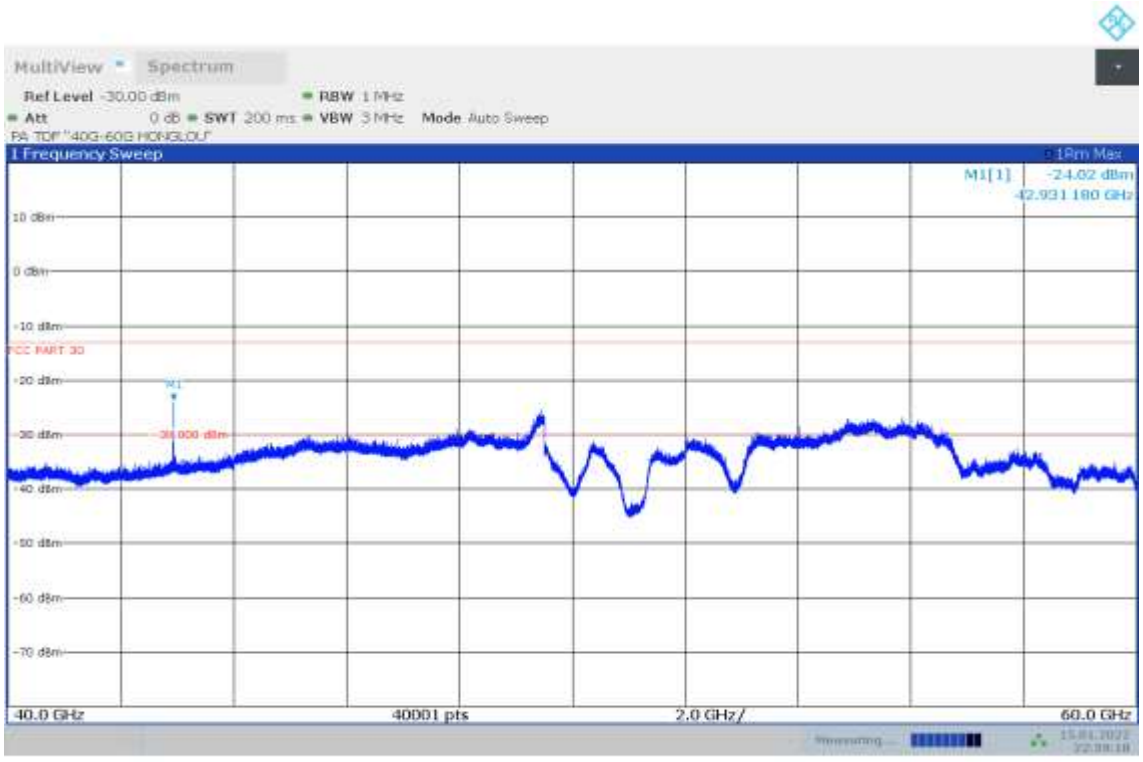
21:07:48 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 18GHz-40GHz, H



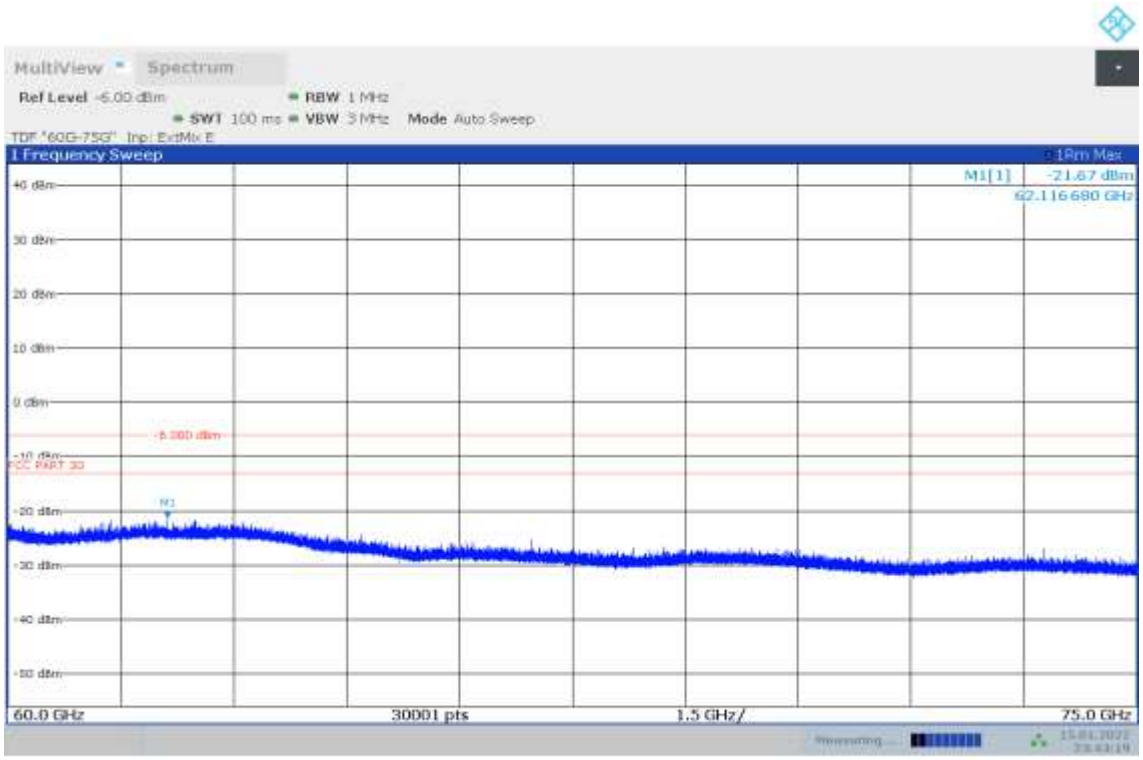
22:57:40 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 40GHz-60GHz, V



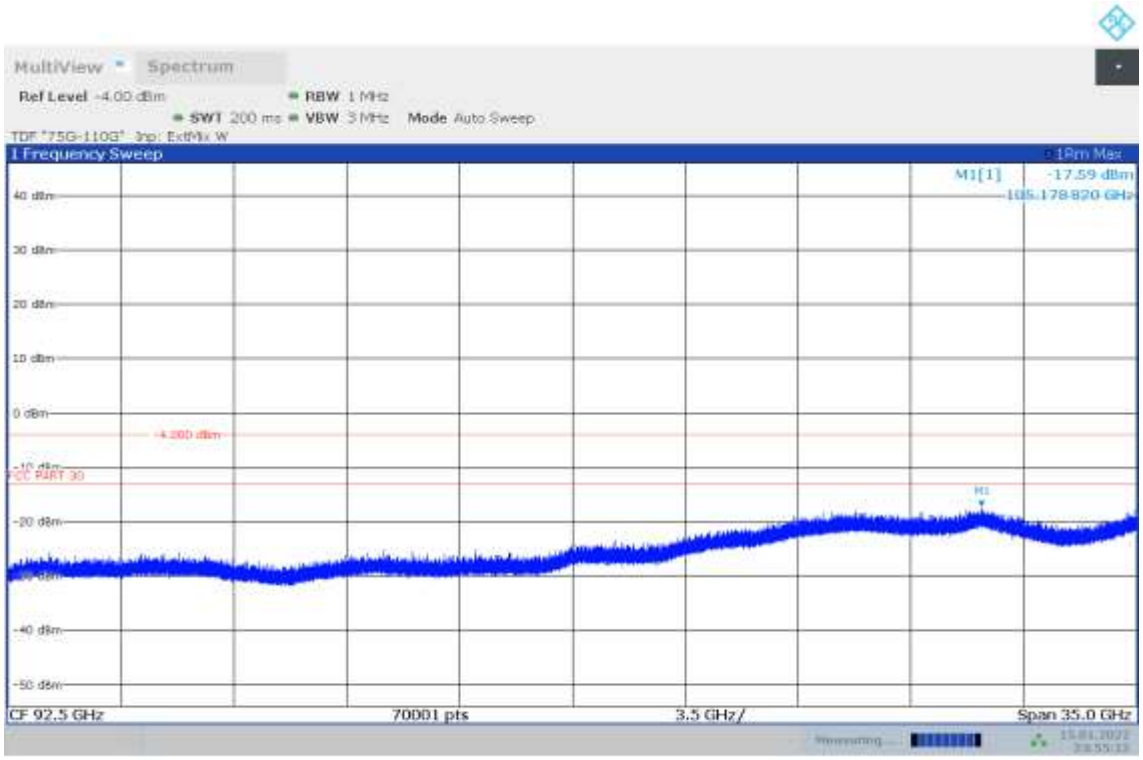
22:59:19 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 40GHz-60GHz, H



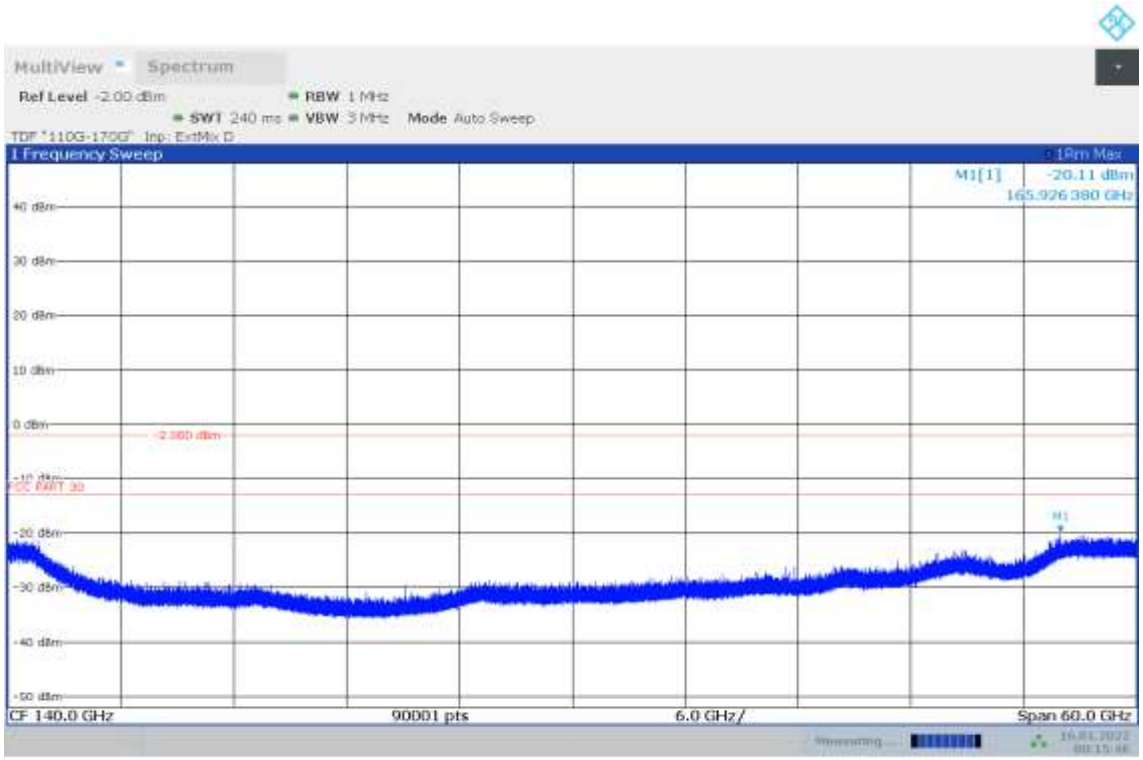
23:43:19 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 60GHz-75GHz,



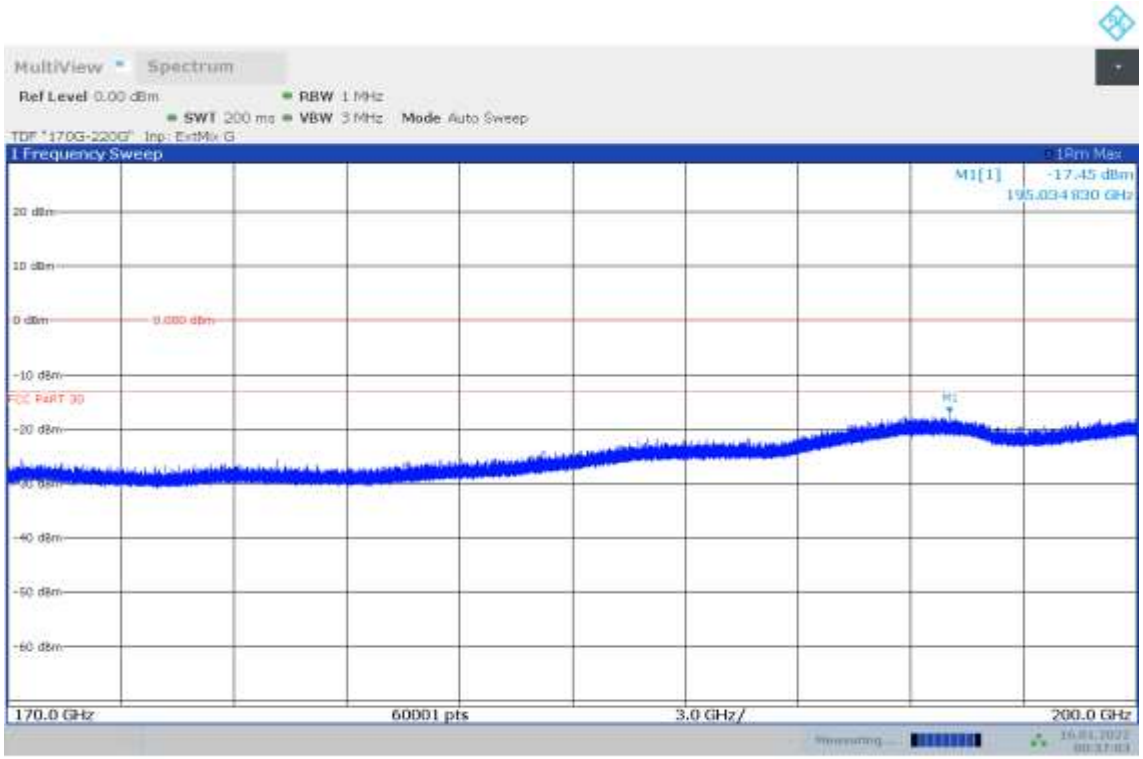
23:55:12 15.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 75GHz-110GHz



00:15:46 16.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 110GHz-170GHz



00:57:03 16.01.2022

n260, Module0, 100MHz, PUSCH DFT, QPSK, 1RB, Low channel, 170GHz-200GHz