



FCC RADIO TEST REPORT

FCC ID : A4RGU0NP
Equipment : Phone
Model Name : GU0NP, GM66V
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2, and 30

The product was received on Jan. 09, 2025 and testing was performed from Feb. 01, 2025 to Feb. 19, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures ANSI C63.26-2015 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4N0920H	01	Initial issue of report	May 20, 2025
FG4N0920H	02	Revise Feature of Equipment Under Test. This report is an updated version, replacing the report issued on May 20, 2025.	Jun. 04, 2025
FG4N0920H	03	Remove module B wording and improve the wording for 24GHz emission measurement. This report is an updated version, replacing the report issued on Jun. 04, 2025.	Jul. 22, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Limit	Result (PASS/FAIL)	Remark
3.4	§2.1046 §30.202	EIRP Measurement	+43dBm	Pass	-
3.5	§2.1049	Occupied Bandwidth	Not Applicable	Pass	-
3.6	§2.1053 §30.203	Radiated Spurious Emission	-5dBm/MHz -13dBm/MHz -35dBW/200MHz	Pass	-
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Within the band	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The GU0NP and GM66V are 100% identical in Hardware / Software to each other, and only have different model names for marketing segmentation. The test sample are all model GU0NP.

Reviewed by: William Chen**Report Producer: Ming Chen**



1 General Description

1.1 Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx.
Antenna Type WWAN: <mmW>: Patch Array Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	Performed Test Item
4C81FDCG00055	EIRP Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Device Category in Part 30	Mobile station
Support Bandwidth	NR band n258A: 50/100 MHz (1CC) and 200 MHz (2CC) NR band n258B: 50/100 MHz (1CC), 200 MHz (2CC), 300 MHz (3CC) and 400 MHz (4CC) NR band n260: 50/100 MHz (1CC), 200 MHz (2CC) , 300 MHz (3CC) and 400 MHz (4CC) NR band n261: 50/100 MHz (1CC), 200 MHz (2CC) , 300 MHz (3CC) and 400 MHz (4CC)
Maximum Number of contiguous CC	4
Maximum Aggregated Bandwidth	400MHz
Maximum Output Power (EIRP)	NR band n258A: 29.26 dBm NR band n258B: 29.11 dBm NR band n260: 31.37 dBm NR band n261: 34.03 dBm
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM DFT-s-OFDM: Pi/2 BPSK / QPSK / 16QAM / 64QAM

Note 1: Highest EIRP was measured on dual beam case for n261 band.

Note 2: The above EUT's information is declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C) TEL: +886-3-327-0868 FAX: +886-3-327-0855			
Test Site Information	Site No.	Engineer	Temperature	Humidity
	03CH23-HY	Leo Li	20.3~22.1℃	50.1~55.8%
	03CH18-HY	Yu Wang, Eric Jeng and Jia Ming Wu	19.9~23.4℃	50.3~56.4%

Note 1: FCC Designation No.: TW3786

Note 2: The highest accredited frequency is 280GHz.

Note 3: The test lab accreditation scope please refer appendix C, and the ISO 17025 accreditation letter can be found on TAF (Taiwan Accreditation Foundation) Website ([Website link](#)).

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR Part 2, 30
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 842590 D01 Upper Microwave Flexible Use Service v01r03

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

EUT has only one millimeter wave antenna module with antenna type patch.

There are up to 2 beams H and V operation for the antenna module.

Preliminary EIRP testing was conducted for all beam configurations within a CATR chamber by the manufacturer.

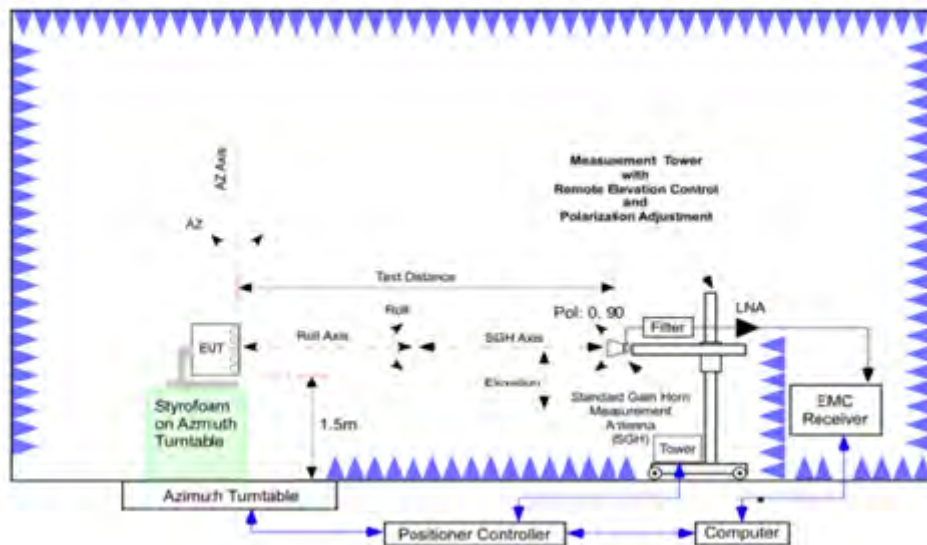
Subsequently, for final FR2 RF verification, three pairs of worst-case beam IDs per frequency band, as identified by the manufacturer, were selected for EIRP testing within the anechoic chamber compliant with CISPR16-1-4:2019 test lab accreditation.

The test setup adhered to KDB 842590 guidelines, utilizing a roll axis positioner and azimuth turntable for 1-degree incremental scanning of the desired signal. This process facilitated the identification of the worst-case EIRP beam ID.

Investigation revealed that dual-beam operation yielded a higher rated maximum EIRP than single-beam operation.

All tests were performed in a non-signaling, stand-alone Factory Test Mode (FTM) of operation.

FTM software was used to configure EUT to transmit continuously at maximum output power throughout the test duration (100% UL duty cycle).





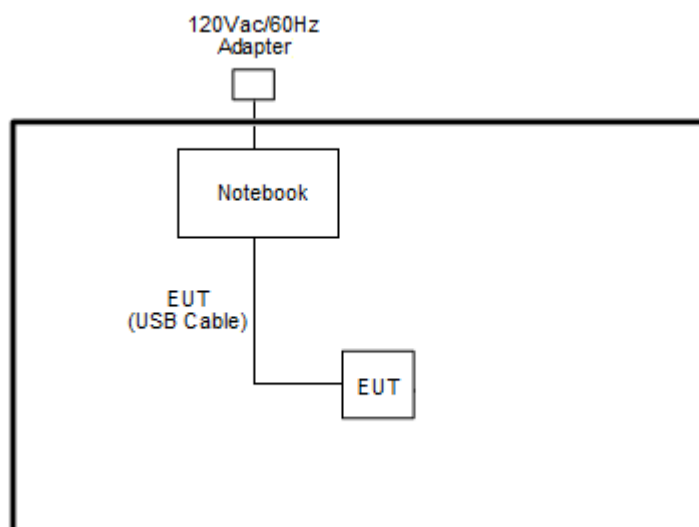
2.1 Test Mode

Test Items	Band	Bandwidth (MHz)					Modulation			RB #			Test Channel		
		50	100	200	300	400	QPSK	16QAM	64QAM	1	Inner Full	Outer Full	L	M	H
EIRP	n258 n260 n261	v	v	v	v	v	v	v	v	v	v		v	v	v
99% Occupied Bandwidth	n258 n260 n261	v	v	v	v	v	v	v	v	-	-	v	v	v	v
Out of Band Emission	n258	v	v	v	v	v	v	v	v	v	-	v	v	v	v
	n260 n261	v	v	v	v	v	v	v	v	v	-	v	v		v
Spurious Emission	n258 n260 n261	v	v	v	v	v	v	-	-	v	-	-	v	v	v
Frequency Stability	n258 n260 n261	CW tone											-	v	-
Remark	1. The mark “v “ means that this configuration is chosen for testing. 2. The device is investigated from 9kHz to 200GHz of fundamental signal for radiated spurious emission test under different RB size and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 3. Both modulation type DFT-s OFDM and CP-OFDM are evaluated and reported. 4. All the radiated test cases were performed with USB Cable 2. 5. The out of band emission were measured radiated EIRP. 6. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode), standalone mode and notebook mode were verified. It is determined that the notebook mode is the worst case for official test.														

Note: EUT antenna gain information is not listed because all the measured results are radiated EIRP.

2.2 Connection Diagram of Test System

<For radiated emissions from 30MHz to 200GHz>



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Notebook	ACER	A515-54G-51QB	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.4 Measurement Results Explanation Example

According to ANSI C63.26-2015 Section 5.2.7

$$\text{EIRP (dBm)} = \text{E(dBuV/m)} + 20\log(D) - 104.8.$$

- where D is the measurement distance (in the far field region) in m.
- $\text{E (dBuV/m)} = \text{Spectrum Reading Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$

Hence, the spectrum analyzer *Offset* is derived including RF cable loss and antenna factor.

$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

The conversion loss of RF mixer is also included by the mixer table of spectrum analyzer when measurement frequency is above 40GHz.

Example :

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 3.0 + 107 + 20\log(1) - 104.8 \\ &= 47.5 \text{ (dB)} \end{aligned}$$

2.5 Far Field Condition for Frequency above 18GHz

Horn Antenna	Frequency (GHz)	Antenna Dimension A (mm)	Wavelength (λ) (m)	Far field R (m) $\geq 2A^2 / \lambda$	Measurement Distance (D) (m)	Distance Factor $20\log(D)$ (dB)
BBHA 9170	18	60	0.0167	0.43	1	0.00
	40	60	0.0075	0.96		
QWH-UPRR00	40	48	0.0075	0.61	1	0.00
	60	48	0.0050	0.92		
QWH-EPRR00	60	31	0.0050	0.38	1	0.00
	90	31	0.0033	0.58		
QWH-FPRR00	90	21	0.0033	0.26	0.5	0.00
	140	21	0.0021	0.41		
QWH-GPRR00	140	15	0.0021	0.21	0.5	-6.02
	220	15	0.0014	0.33		



2.6 Frequency List of Low/Middle/High Channels

NR Band n258A (24.25-25.45GHz) Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	24275	24350	24425
100	Frequency	24300	24350	24400
200	Frequency 1	-	24300	-
	Frequency 2	-	24400	-

NR Band n258B (24.75-25.25GHz) Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	24775	25000	25225
100	Frequency	24800	25000	25200
200	Frequency 1	24800	24950	25100
	Frequency 2	24900	25050	25200
300	Frequency 1	24800	24900	25000
	Frequency 2	24900	25000	25100
	Frequency 3	25000	25100	25200
400	Frequency 1	24800	24850	24900
	Frequency 2	24900	24950	25000
	Frequency 3	25000	25050	25100
	Frequency 4	25100	25150	25200

NR Band n260 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	37025	38500	39975
100	Frequency	37050	38500	39950
200	Frequency 1	37050	38450	39850
	Frequency 2	37150	38550	39950
300	Frequency 1	37050	38400	39750
	Frequency 2	37150	38500	39850
	Frequency 3	37250	38600	39950
400	Frequency 1	37050	38350	39650
	Frequency 2	37150	38450	39750
	Frequency 3	37250	38550	39850
	Frequency 4	37350	38650	39950



NR Band n261 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	27525	27925	28325
100	Frequency	27550	27925	28300
200	Frequency 1	27550	27875	28200
	Frequency 2	27650	27975	28300
300	Frequency 1	27550	27825	28100
	Frequency 2	27650	27925	28200
	Frequency 3	27750	28025	28300
400	Frequency 1	27550	27775	28000
	Frequency 2	27650	27875	28100
	Frequency 3	27750	27975	28200
	Frequency 4	27850	28075	28300

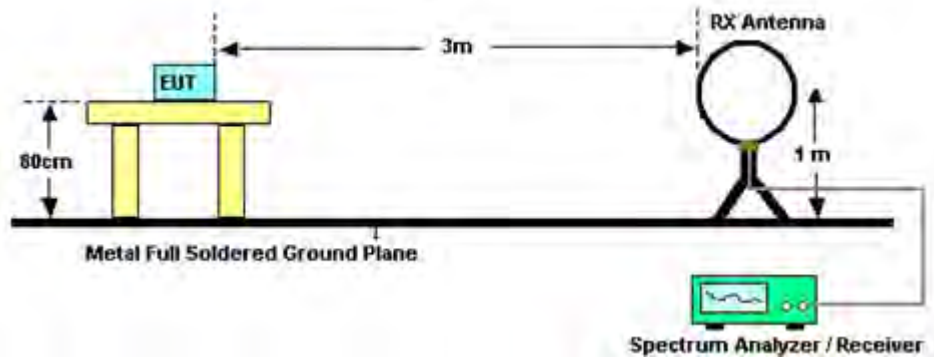
3 Radiated Test Items

3.1 Measuring Instruments

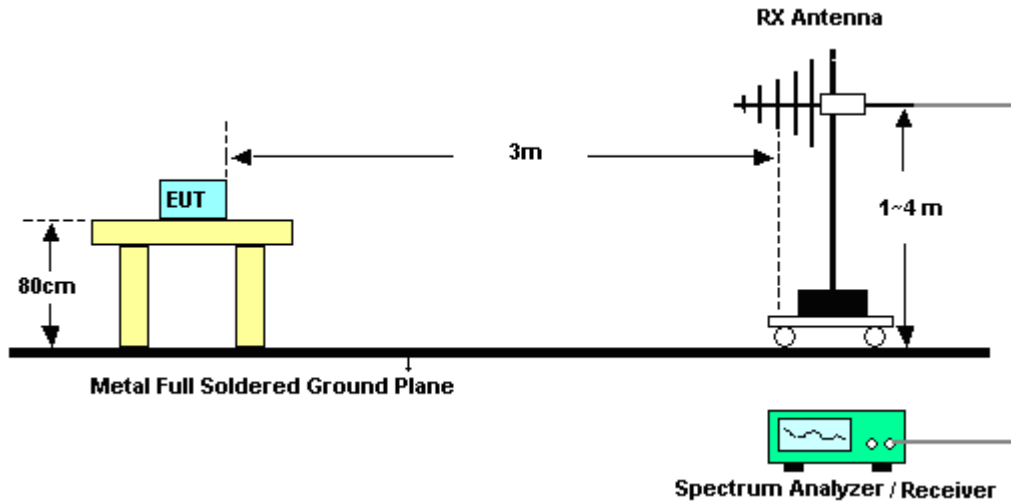
Please refer to the measuring equipment list in this test report.

3.2 Test Setup

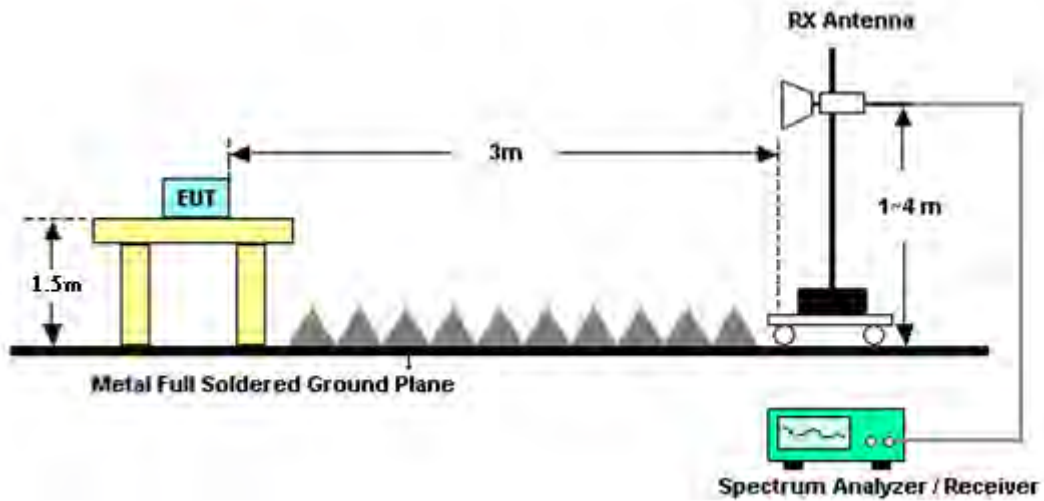
For radiated emissions from 9kHz to 30MHz



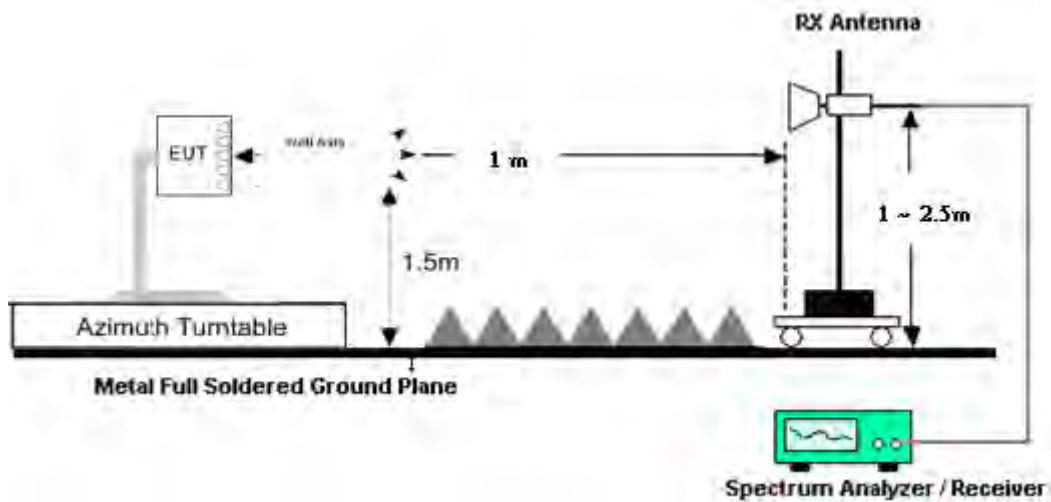
For radiated emissions from 30MHz to 1GHz



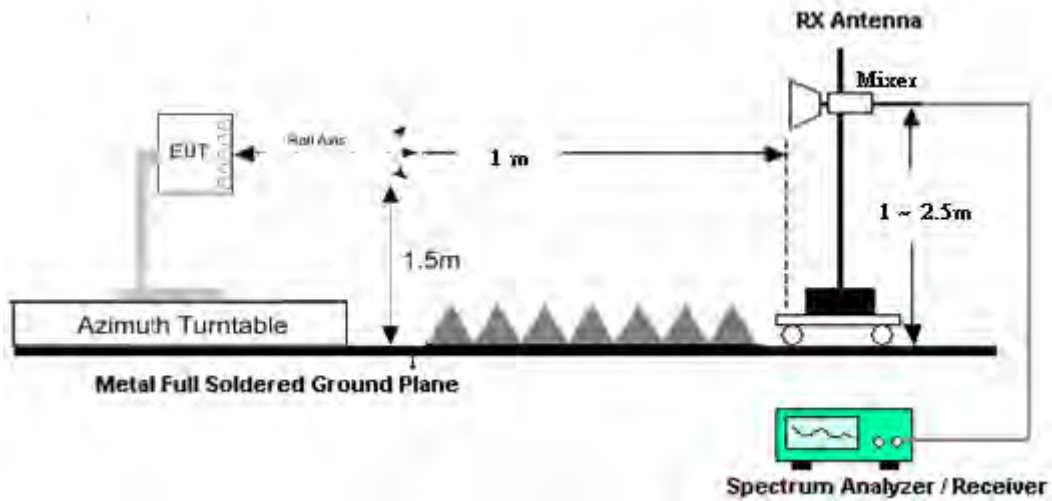
For radiated emissions 1GHz to 18GHz



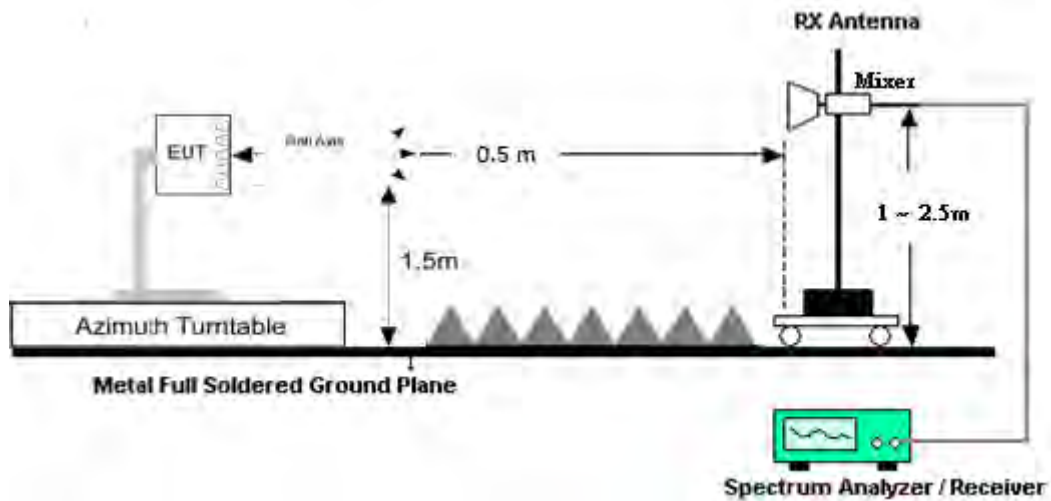
For radiated emissions from 18GHz to 40GHz

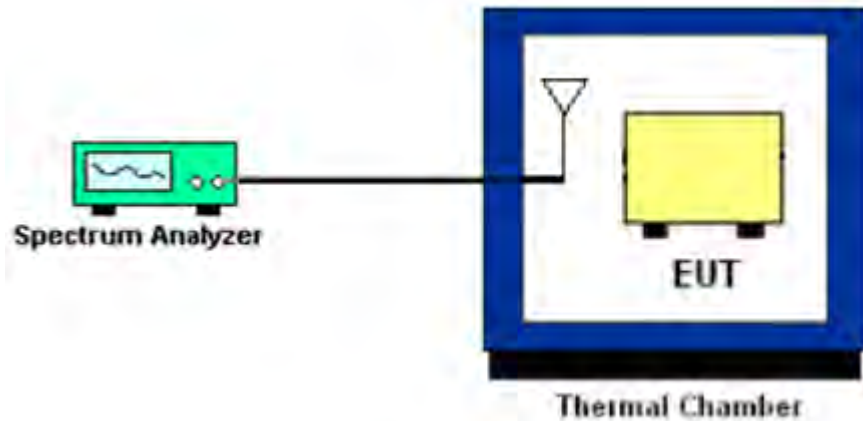


For radiated emissions above 40GHz up to 90GHz



For radiated emissions above 90GHz up to 200GHz



Frequency stability Setup**3.3 Test Result of Radiated Test**

Please refer to Appendix A.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



3.4 EIRP Measurement

3.4.1 Description of EIRP Measurement

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

3.4.2 Test Procedures

1. Set EUT at maximum output power.
2. Select lowest, middle, and highest channels for each band and different modulation.
3. Enable channel power function of spectrum analyzer
4. Set frequency would like to be investigated.
5. Set Detector = RMS
6. Set Trace mode = trace average
7. Set Sweep time = auto couple
8. Set sweep points $\geq 2 \times \text{Span/RBW}$
9. Set sweep count 100 and wait until the trace to be stabilized
10. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
11. Measure and record the power level from the spectrum analyzer.
12. The test result is calculated according to

ANSI C63.26-2015 Section 5.2.7

$$\text{EIRP (dBm)} = \text{E(dBuV/m)} + 20\log(D) - 104.8.$$

where D is the measurement distance (in the far field region) in m.

$$\text{E (dBuV/m)} = \text{Spectrum Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$$

That is, set the spectrum offset including sum of

$$\text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$



3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

This is for reporting only.

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.4

1. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
The span range for the spectrum analyzer shall be at least 1.5 times the anticipated OBW.
2. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
3. Set the detection mode to peak, and the trace mode to max hold.
4. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.6 Radiated Spurious Emission Measurement

3.6.1 Description of Radiated Spurious Emission Measurement

The spectrum is scanned from 30 MHz up to 200GHz.

The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be -13 dBm/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.

Additional requirement for 24GHz bands: The phase 2 limits of 47 CFR 30.203(d)(2) is applied.

(2) For mobile equipment brought into use after September 1, 2027, the maximum conducted output power or the total radiated power of emissions in any 200 MHz of the 23.6-24.0 GHz band shall not exceed -39 dBW (for base stations) or -35 dBW (for mobile stations).

Station Type	Limit (23.6 ~ 24GHz)
Mobile	-35dBW/200MHz

3.6.2 Test Procedures

1. Set EUT at maximum output power.
2. Select lowest, middle, and highest channels for each band and different modulation.
3. Measure and record the power level from the spectrum analyzer.
4. Set frequency would like to be investigated.
5. Set Detector = RMS, Trace mode = trace average, sweep time = auto couple
6. Set sweep points $\geq 2 \times \text{Span/RBW}$, sweep count 100 and wait until the trace to be stabilized.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. For measurement frequency from 30MHz to 18GHz,
An antenna was substituted in place of the EUT and was driven by a signal generator.
Tune the output power of signal generator to the same emission level with EUT maximum spurious emission. Take record of output power and repeat for another polarization.
9. For measurement frequency above 18GHz, the test result is calculated according to
ANSI C63.26-2015 Section 5.2.7 and 5.7.3 and 5.7.4
$$\text{EIRP (dBm)} = \text{E(dBuV/m)} + 20\log(D) - 104.8$$

where D is the measurement distance (in the far field region) in m.
$$\text{E (dBuV/m)} = \text{Spectrum Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$$

That is, set the spectrum offset including sum of
$$\text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$
10. The conversion loss of RF mixer is also included in conversion loss table of the spectrum analyzer when measurement frequency is above 40GHz.
11. Two cut method is used to perform some spurious emissions where EIRP exceeds emission limit within 18-40GHz frequency range.



3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

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.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.

1. The EUT was set up in the thermal chamber.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.

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.
3. The variation in frequency was measured for the worst case.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 14, 2024	Feb. 15, 2025	Jul. 13, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Feb. 15, 2025	Sep. 26, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18G	060837	N/A	Feb. 13, 2025	Feb. 15, 2025	Feb. 12, 2026	Radiation (03CH23-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 27, 2024	Feb. 15, 2025	Nov. 26, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18E N	1GHz~18GHz	Jun. 20, 2024	Feb. 15, 2025	Jun. 19, 2025	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Aug. 21, 2024	Feb. 15, 2025	Aug. 20, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 15, 2025	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 15, 2025	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 15, 2025	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002348	N/A	N/A	Feb. 15, 2025	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Nov. 26, 2024	Feb. 15, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 26, 2024	Feb. 15, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119/231122	N/A	Nov. 26, 2024	Feb. 15, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170584	18GHz~40GHz	Dec. 06, 2024	Feb. 01, 2025~ Feb. 19, 2025	Dec. 05, 2025	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101009	10Hz~44GHz	Nov. 22, 2024	Feb. 01, 2025~ Feb. 19, 2025	Nov. 21, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 25, 2024	Feb. 01, 2025~ Feb. 19, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
Turn Table	EMEC	N/A	N/A	Phi/Theta 0~360 Degree	N/A	Feb. 01, 2025~ Feb. 19, 2025	N/A	Radiation (03CH18-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table	N/A	Feb. 01, 2025~ Feb. 19, 2025	N/A	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 19, 2024	Feb. 15, 2025	Feb. 18, 2025	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	FSZ-90	101867	60GHz to 90GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z140	101130	90GHz to 140GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z220	101042	140GHz to 220GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-GPRR00	QWH-GPRR00-01	140-220 GHz	Jun. 27, 2024	Feb. 15, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 25, 2024	Feb. 15, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519231/2	N/A	Dec. 25, 2024	Feb. 15, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
Thermal Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Oct. 08, 2024	Feb. 15, 2025	Oct. 07, 2025	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	N/A	Feb. 15, 2025	N/A	Radiation (03CH18-HY)

Note 1: (*) Equipment manufacturer's Calibration Certificate.

Note 2: The Standard Gain Horn Antennas are calibrated by the ISO 17025 accredited test lab MWM Lab

(<http://en.mwmlab.com/about>), a sub unit of Belarussian State University of Informatics and Radio electronics which is accredited by the Belarussian State Centre for Accreditation (BSCA). BSCA is the National accreditation body of the Republic of Belarus and an associated member of the International Laboratory Accreditation Cooperation (ILAC).

Note 3: The standard gain horn's critical dimensions is verified on an annual basis within the equipment specification according to KDB 842590 D01 v01r03 clause 2)a)2)iii).

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
---	--------

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
---	--------

Uncertainty of Radiated Emission Measurement (40 GHz ~ 140 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.59 dB
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Uncertainty of Radiated Emission Measurement (140 GHz ~ 200 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.57 dB
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Appendix A. Test Results of EIRP and Radiated Test

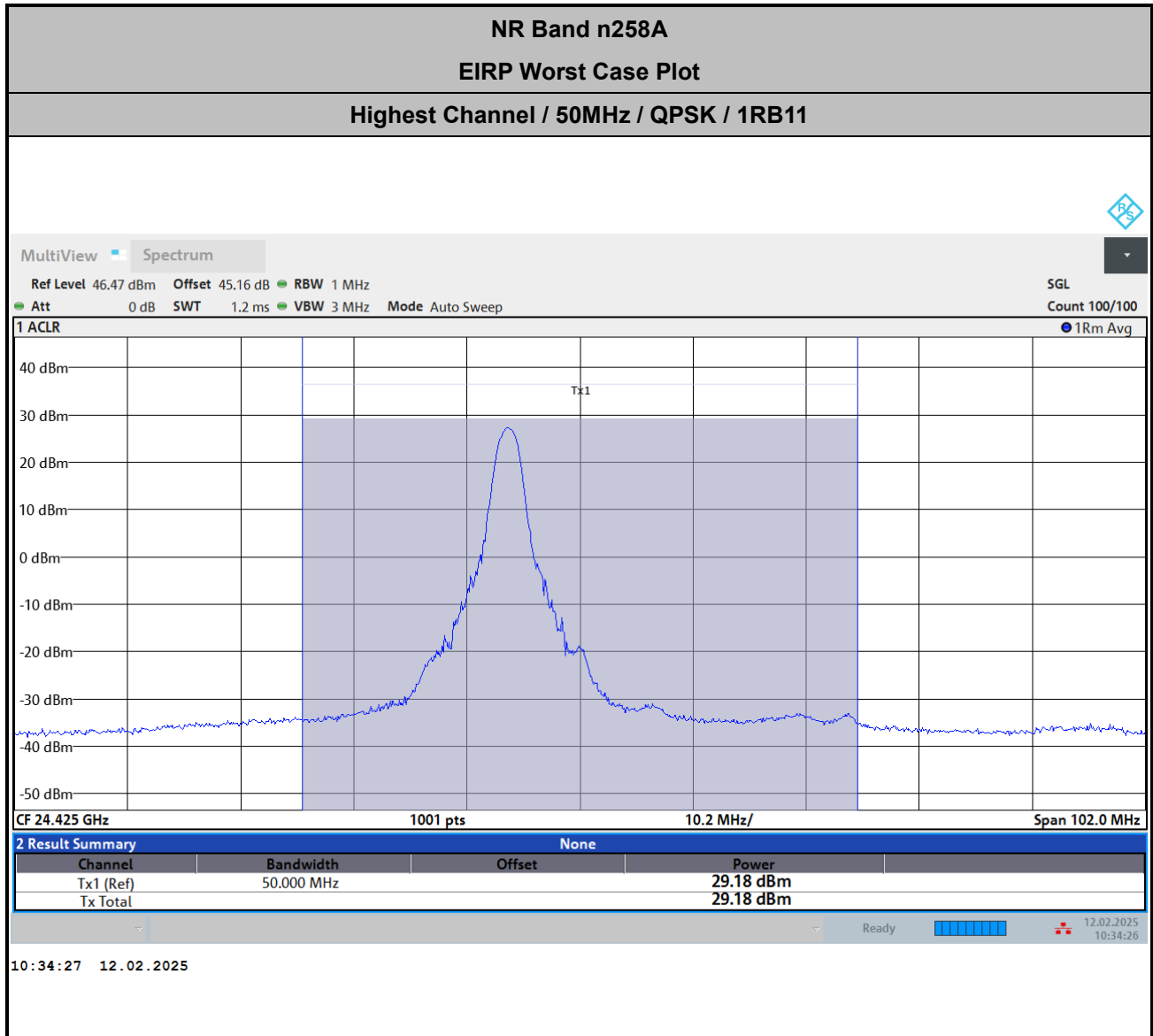
EIRP Power(Average power)

NR Band n258A AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Lowest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	28.74	28.45
	50	DFT-S	16QAM	25.15	25.39
	50	DFT-S	64QAM	23.23	23.35
	50	CP	QPSK	24.92	25.19
	100	DFT-S	QPSK	28.81	28.8
	100	DFT-S	16QAM	25.39	25.8
	100	DFT-S	64QAM	23.45	23.58
	100	CP	QPSK	25.37	25.13

NR Band n258A AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Middle	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	28.54	28.34
	50	DFT-S	16QAM	25.6	25.44
	50	DFT-S	64QAM	23.69	23.46
	50	CP	QPSK	25.2	25.39
	100	DFT-S	QPSK	28.04	28.06
	100	DFT-S	16QAM	25.21	25.04
	100	DFT-S	64QAM	23.26	23.01
	100	CP	QPSK	24.93	24.7
	200	DFT-S	QPSK	22.15	22.66
	200	DFT-S	16QAM	20.55	21.24
	200	DFT-S	64QAM	18.85	19.05
	200	CP	QPSK	22.3	22.88

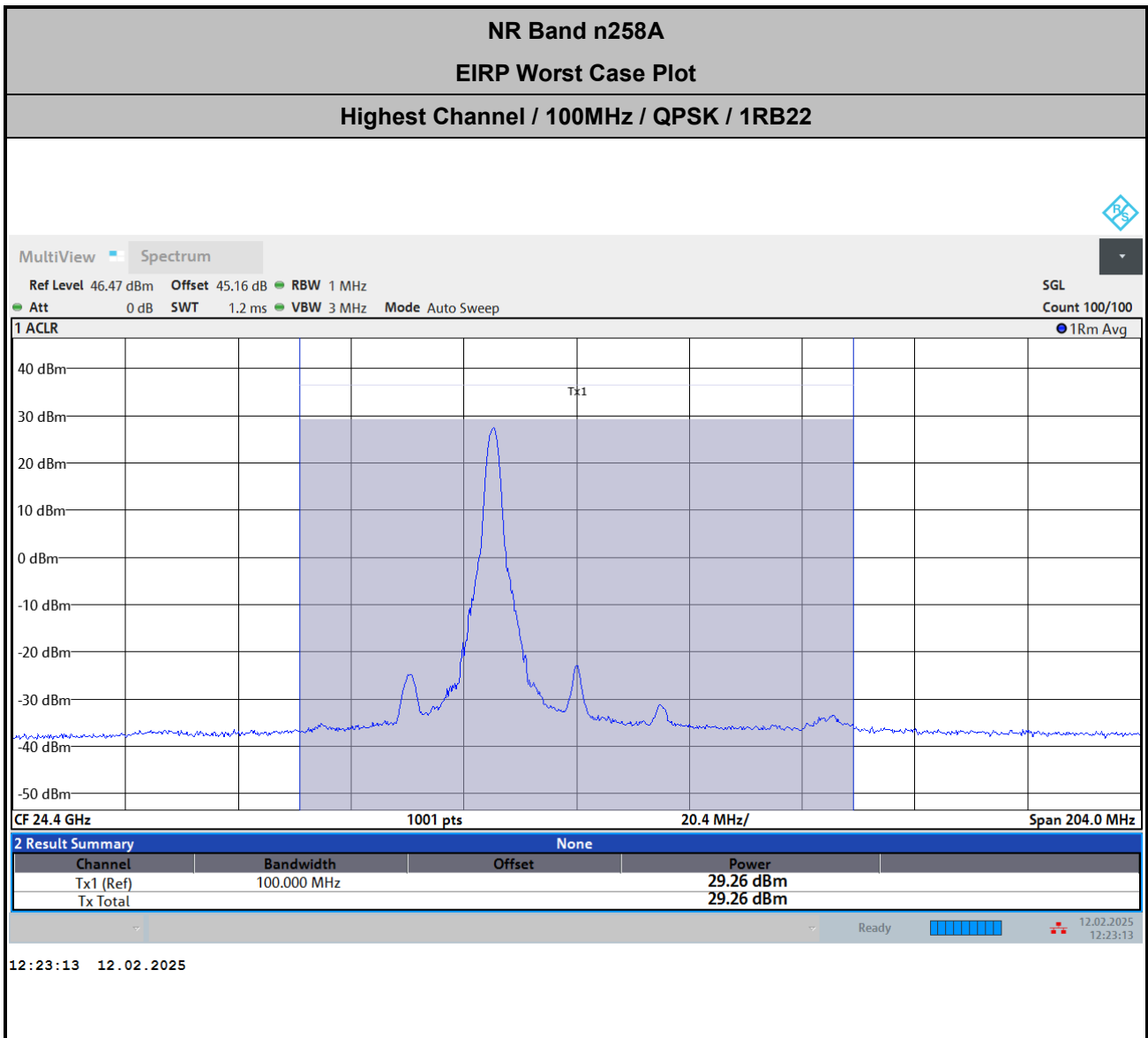
Note : The 200MHz Bw is carrier aggregation by 2CC of 100MHz.

NR Band n258A AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Highest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	29.18	28.49
	50	DFT-S	16QAM	25.71	25.27
	50	DFT-S	64QAM	23.56	23.52
	50	CP	QPSK	25.63	25.24
	100	DFT-S	QPSK	29.26	28.55
	100	DFT-S	16QAM	25.55	25.51
	100	DFT-S	64QAM	23.41	23.63
	100	CP	QPSK	24.97	25.27



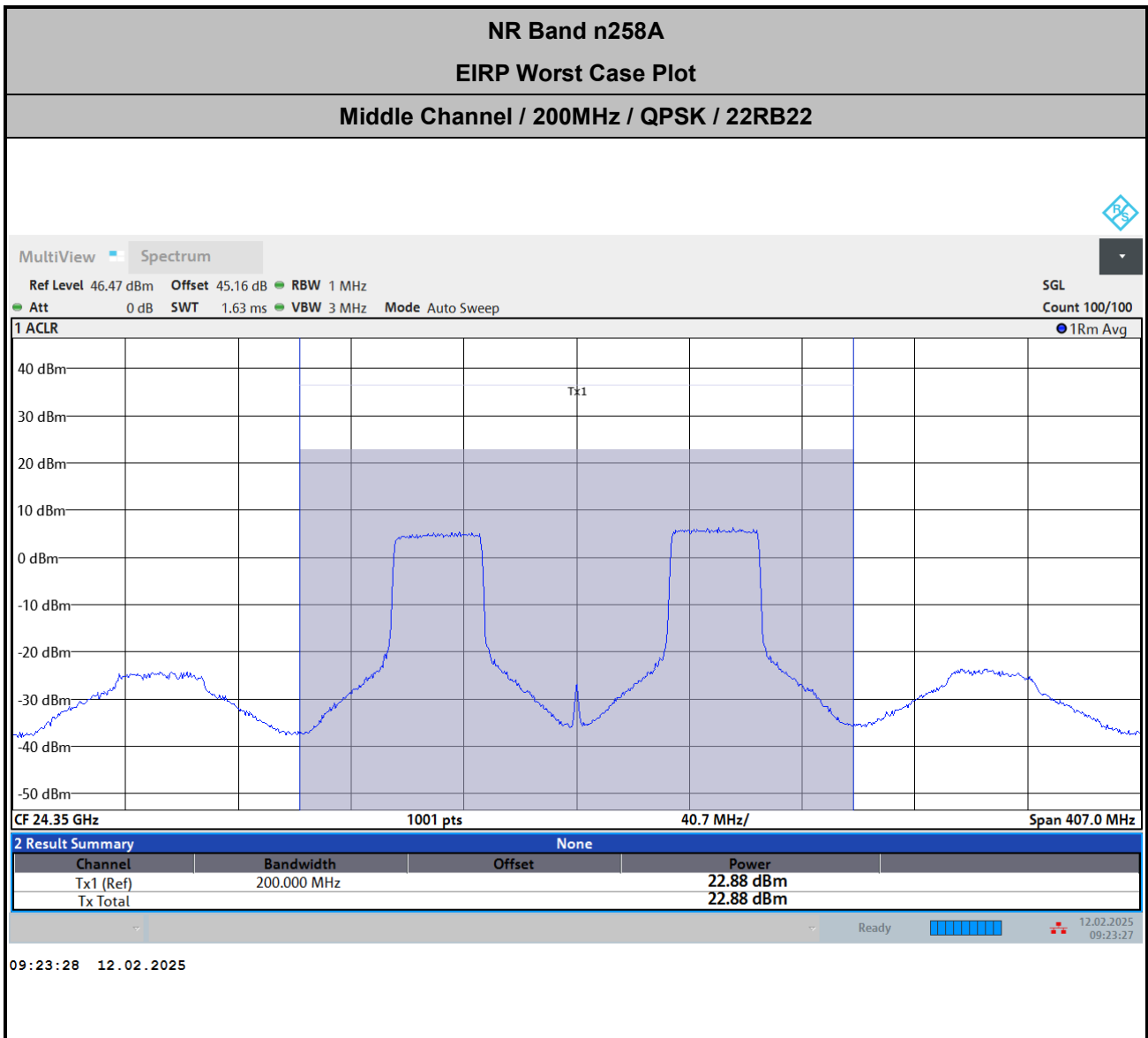
$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$

$= 39.5 + 3.46 + 107 + 20\log(1) - 104.8 = 45.16(\text{dB})$



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 39.5+ 3.46 + 107 + 20log(1) – 104.8 = 45.16(dB)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 39.5+ 3.46 + 107 + 20log(1) – 104.8 = 45.16(dB)

NR Band n258B AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Lowest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	27.75	27.88
	50	DFT-S	16QAM	24.6	24.78
	50	DFT-S	64QAM	22.37	23.05
	50	CP	QPSK	24.45	24.44
	100	DFT-S	QPSK	28.41	27.7
	100	DFT-S	16QAM	25.11	24.69
	100	DFT-S	64QAM	22.96	22.49
	100	CP	QPSK	24.7	24.41
	200	DFT-S	QPSK	22.15	21.35
	200	DFT-S	16QAM	19.7	20.15
	200	DFT-S	64QAM	18.06	18.1
	200	CP	QPSK	21.75	21.19
	300	DFT-S	QPSK	22.25	22.44
	300	DFT-S	16QAM	20.53	21.02
	300	DFT-S	64QAM	18.45	18.56
	300	CP	QPSK	21.81	22.01
	400	DFT-S	QPSK	22.79	22.32
	400	DFT-S	16QAM	20.3	20.86
	400	DFT-S	64QAM	18.62	18.88
	400	CP	QPSK	22.16	22.46

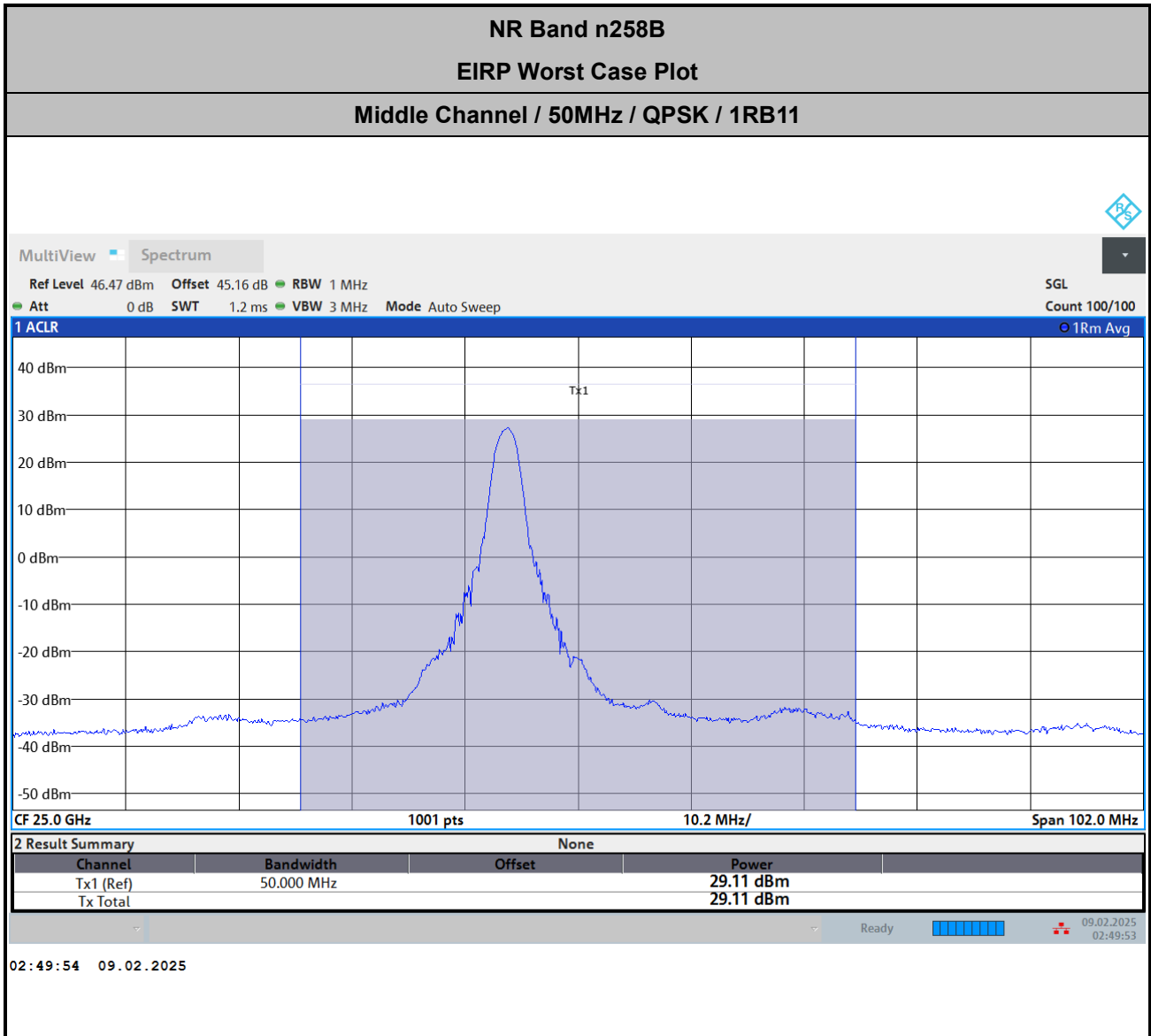
Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

NR Band n258B AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Middle	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	29.11	28.8
	50	DFT-S	16QAM	25.3	25.74
	50	DFT-S	64QAM	24.29	23.61
	50	CP	QPSK	25.64	25.34
	100	DFT-S	QPSK	28.83	28.93
	100	DFT-S	16QAM	25.33	25.9
	100	DFT-S	64QAM	22.91	23.8
	100	CP	QPSK	25.36	25.36
	200	DFT-S	QPSK	22.97	22.47
	200	DFT-S	16QAM	20.98	21.07
	200	DFT-S	64QAM	18.83	18.78
	200	CP	QPSK	22.98	22.7
	300	DFT-S	QPSK	22.27	22.42
	300	DFT-S	16QAM	20.46	20.97
	300	DFT-S	64QAM	18.73	18.78
	300	CP	QPSK	23.1	22.94
	400	DFT-S	QPSK	22.31	22.36
	400	DFT-S	16QAM	20.51	20.92
	400	DFT-S	64QAM	18.79	18.75
	400	CP	QPSK	22.98	22.64

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

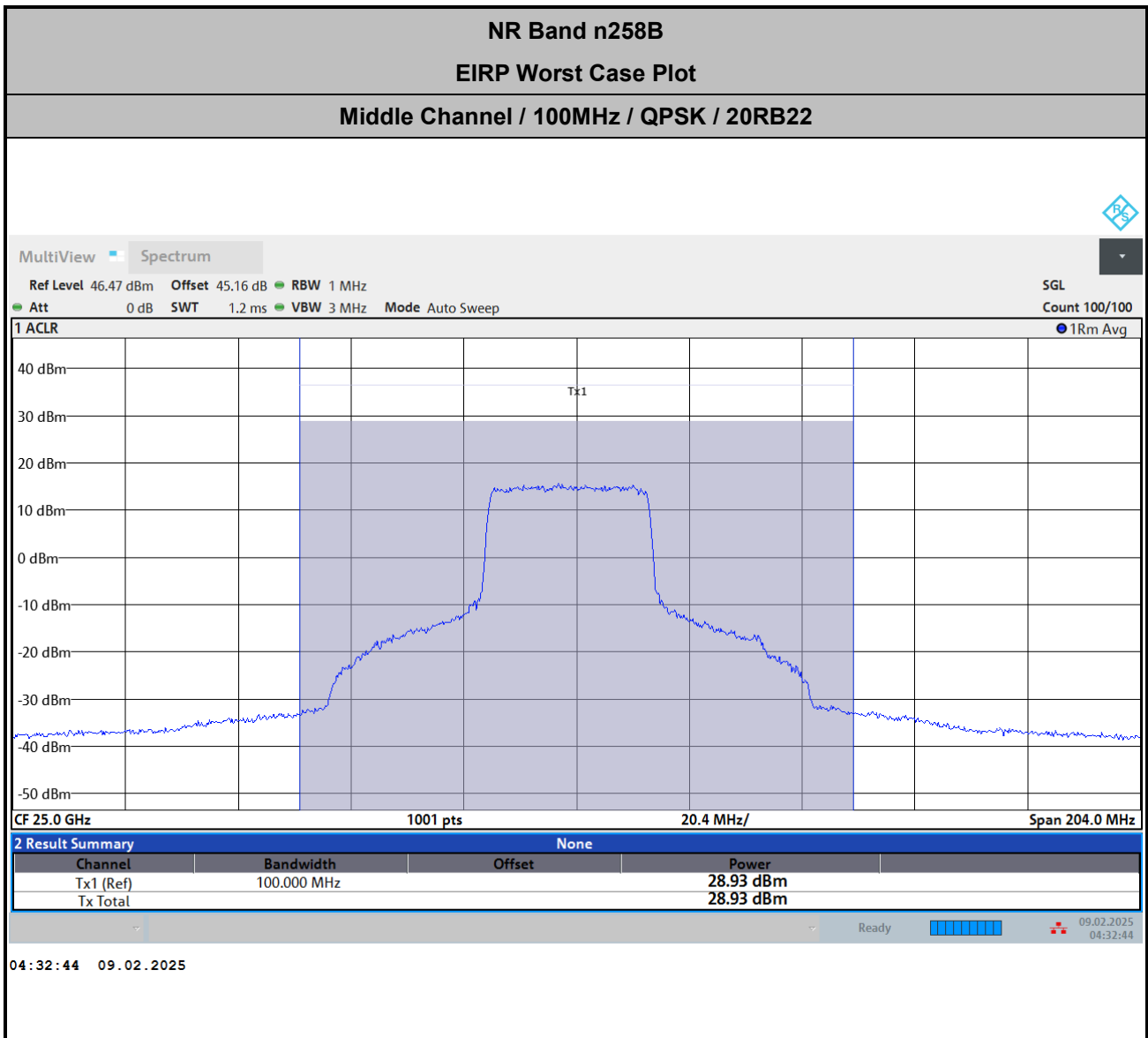
NR Band n258B AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Highest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	28.21	27.87
	50	DFT-S	16QAM	24.8	24.69
	50	DFT-S	64QAM	22.71	22.72
	50	CP	QPSK	25.09	24.73
	100	DFT-S	QPSK	26.87	26.9
	100	DFT-S	16QAM	23.93	24
	100	DFT-S	64QAM	20.9	21.97
	100	CP	QPSK	23.01	23.2
	200	DFT-S	QPSK	19.52	20.03
	200	DFT-S	16QAM	18.11	18.68
	200	DFT-S	64QAM	16.02	16.46
	200	CP	QPSK	19.57	20.26
	300	DFT-S	QPSK	20.37	20.73
	300	DFT-S	16QAM	19.39	19.26
	300	DFT-S	64QAM	16.96	17.15
	300	CP	QPSK	21.02	21.17
	400	DFT-S	QPSK	21.23	20.89
	400	DFT-S	16QAM	19.43	19.5
	400	DFT-S	64QAM	17.1	17.28
	400	CP	QPSK	21	21.13

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.



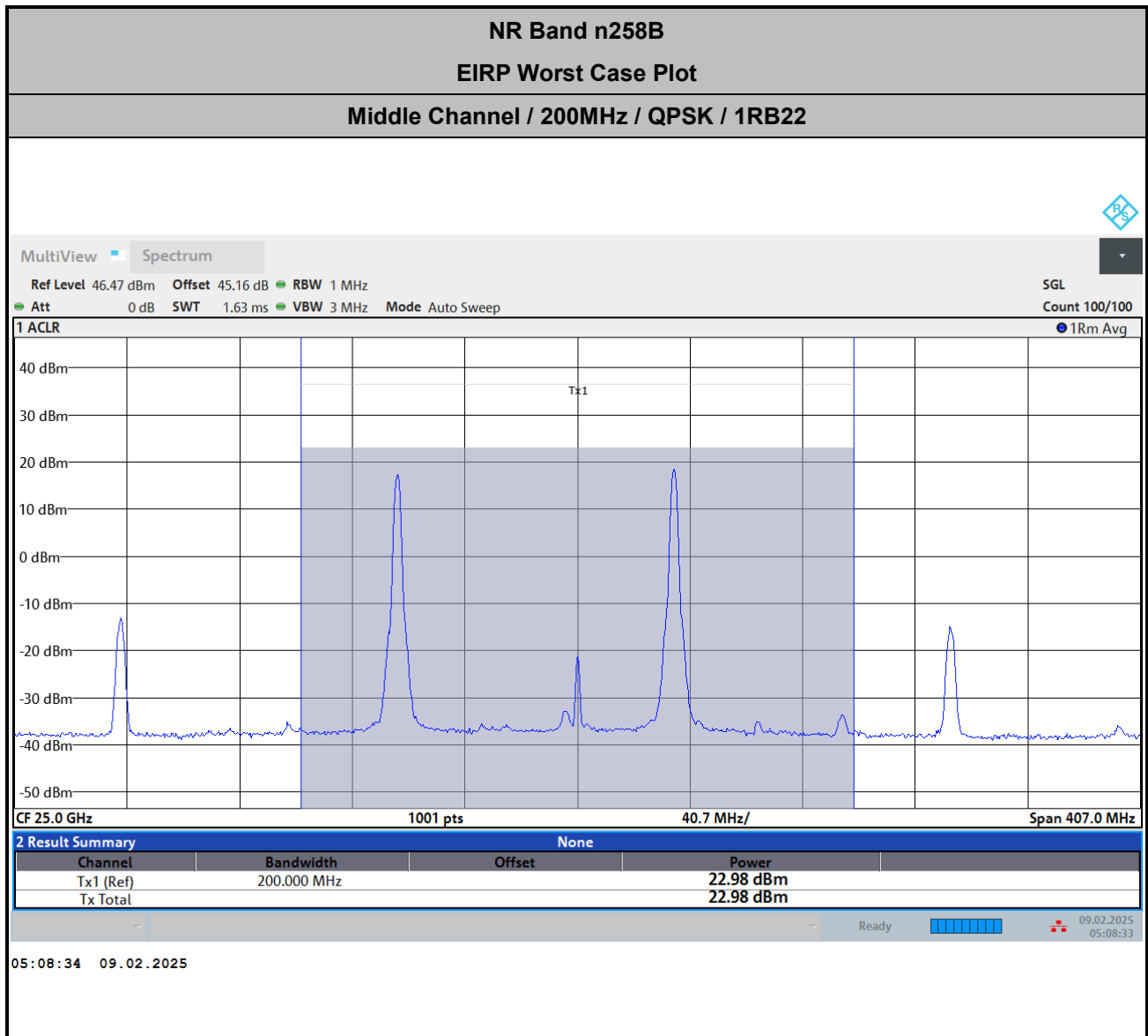
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 39.5 + 3.46 + 107 + 20\log(1) - 104.8 = 45.16(\text{dB})$$



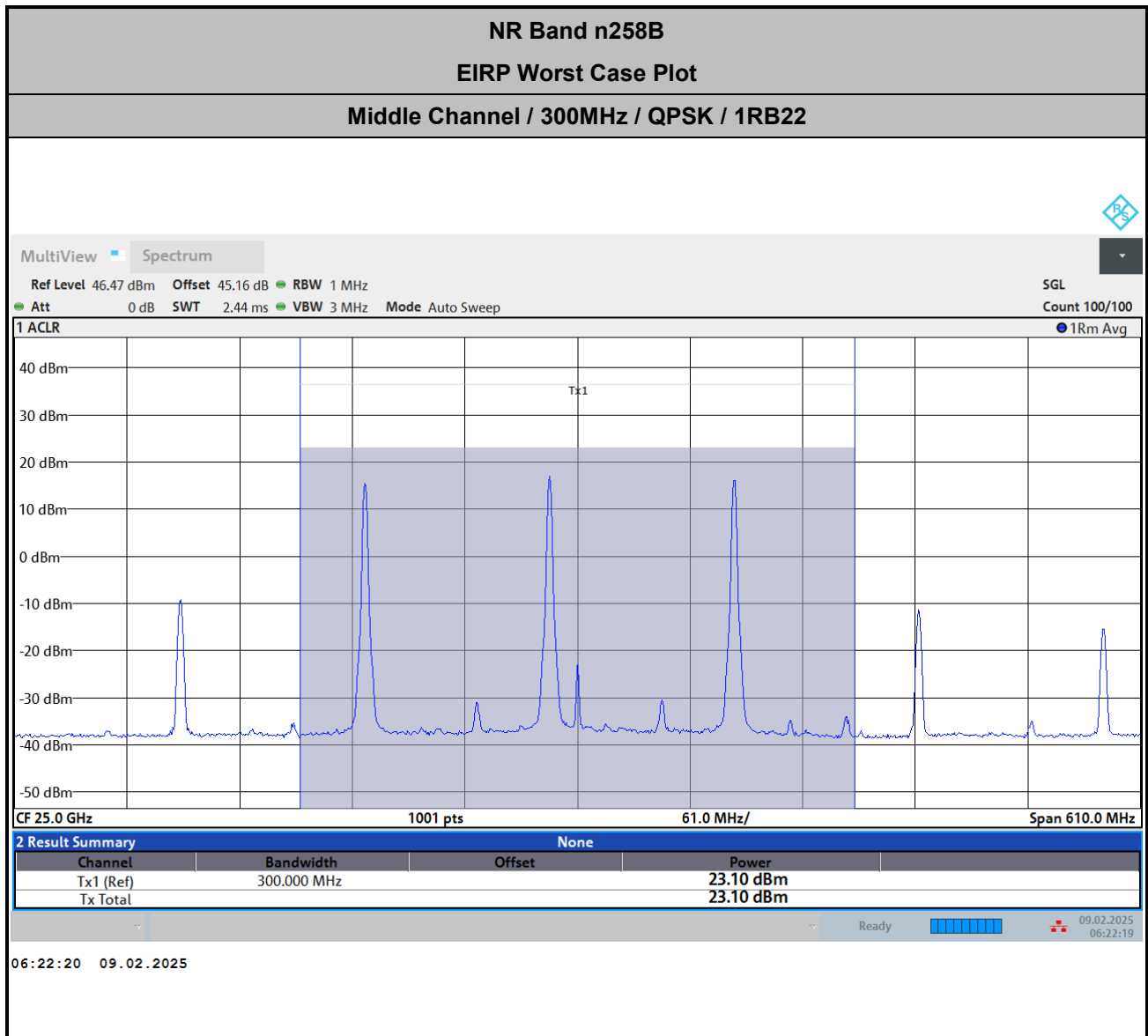
Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 39.5+ 3.46 + 107 + 20log(1) – 104.8 = 45.16(dB)



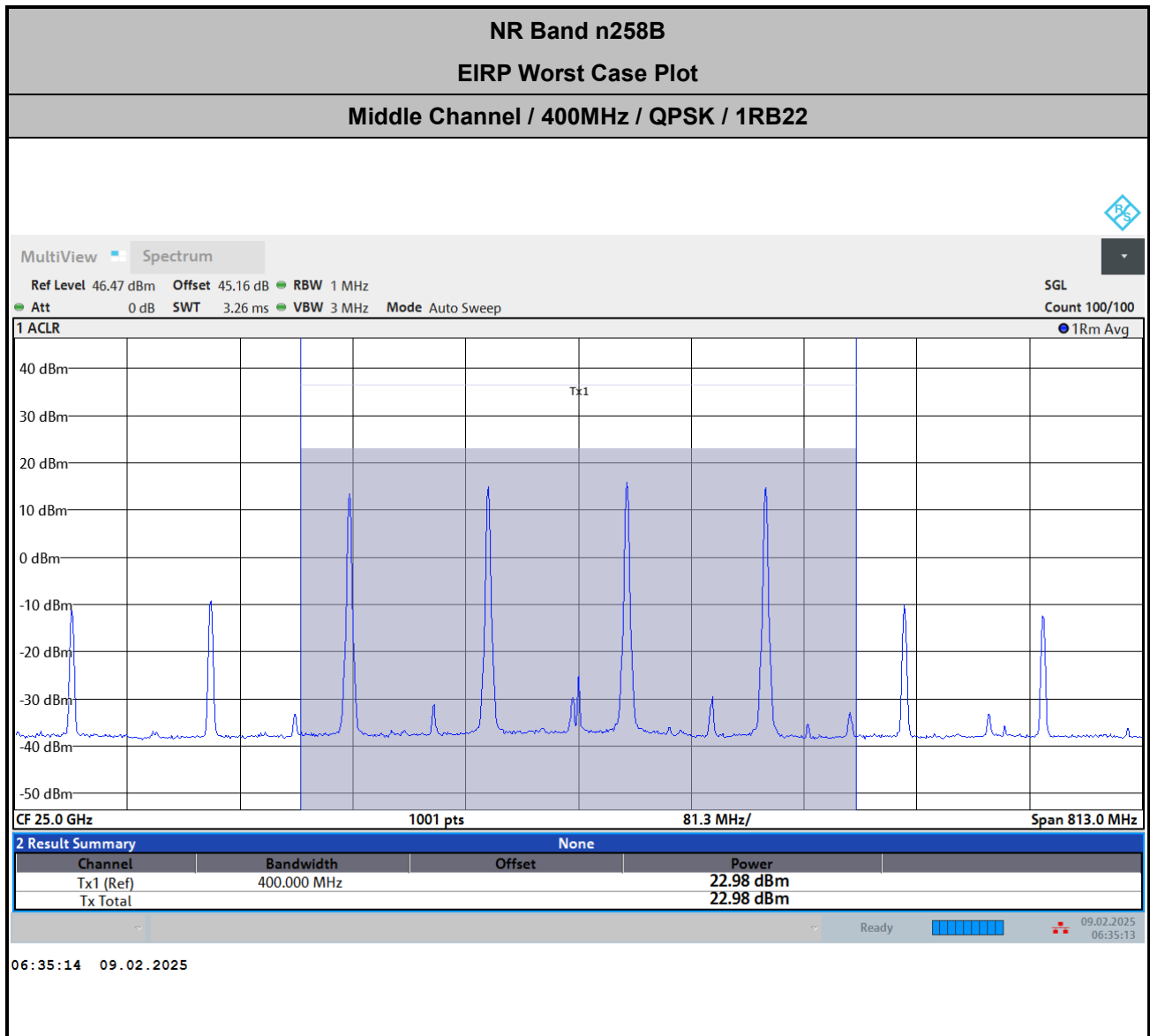
Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 39.5+ 3.46 + 107 + 20log(1) – 104.8 = 45.16(dB)



$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$

$= 39.5 + 3.46 + 107 + 20\log(1) - 104.8 = 45.16(\text{dB})$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 39.5 + 3.46 + 107 + 20\log(1) - 104.8 = 45.16(\text{dB})\end{aligned}$$

NR Band n260 AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Lowest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	30.57	30.45
	50	DFT-S	16QAM	27.45	27.57
	50	DFT-S	64QAM	25.95	25.97
	50	CP	QPSK	26.95	27.14
	100	DFT-S	QPSK	29.26	29.28
	100	DFT-S	16QAM	26.37	26.5
	100	DFT-S	64QAM	24.42	24.31
	100	CP	QPSK	25.39	25.89
	200	DFT-S	QPSK	23.87	24.21
	200	DFT-S	16QAM	22.83	22.9
	200	DFT-S	64QAM	20.45	20.3
	200	CP	QPSK	24.25	24.36
	300	DFT-S	QPSK	24.8	24.87
	300	DFT-S	16QAM	23.38	23.53
	300	DFT-S	64QAM	20.96	21.09
	300	CP	QPSK	25.26	25.31
	400	DFT-S	QPSK	24.73	25.08
	400	DFT-S	16QAM	23.65	23.92
	400	DFT-S	64QAM	20.87	21.53
	400	CP	QPSK	25.5	25.35

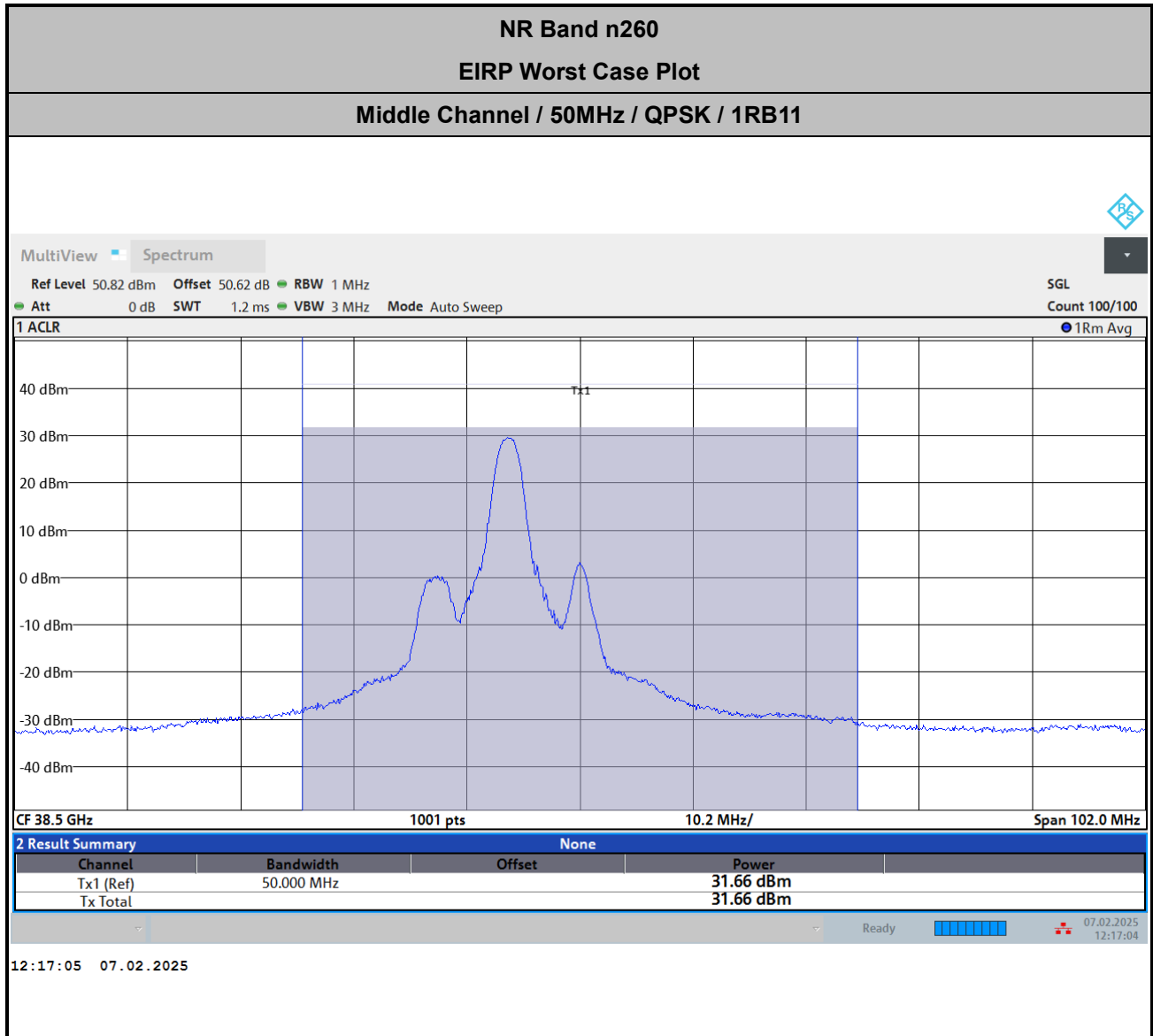
Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

NR Band n260 AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Middle	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	31.66	30.9
	50	DFT-S	16QAM	27.67	27.79
	50	DFT-S	64QAM	25.69	25.98
	50	CP	QPSK	27.31	27.39
	100	DFT-S	QPSK	30.32	29.73
	100	DFT-S	16QAM	26.57	27.07
	100	DFT-S	64QAM	24.47	24.84
	100	CP	QPSK	25.88	26.29
	200	DFT-S	QPSK	23.73	24.11
	200	DFT-S	16QAM	22.82	22.68
	200	DFT-S	64QAM	20.1	19.96
	200	CP	QPSK	24.17	24.38
	300	DFT-S	QPSK	24.79	24.18
	300	DFT-S	16QAM	22.28	22.81
	300	DFT-S	64QAM	20.27	20.2
	300	CP	QPSK	25.09	24.96
	400	DFT-S	QPSK	24.67	24.91
	400	DFT-S	16QAM	23.99	23.52
	400	DFT-S	64QAM	20.4	20.93
	400	CP	QPSK	25.35	25.39

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

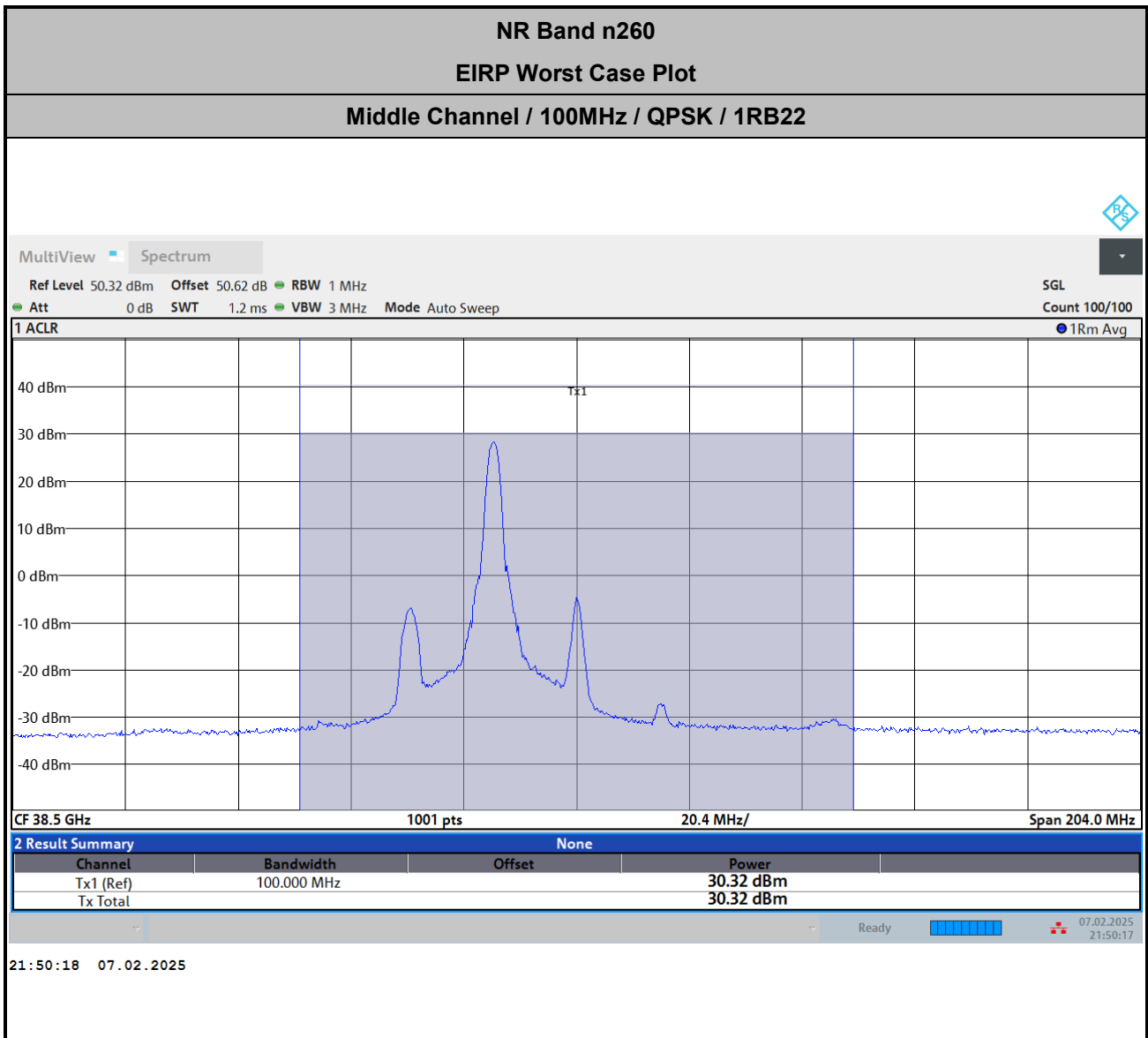
NR Band n260 AGH+V (Beam ID: 3+3)					
Maximum Average EIRP [dBm]					
Highest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	26.4	26.31
	50	DFT-S	16QAM	23.29	23.42
	50	DFT-S	64QAM	21.17	21.29
	50	CP	QPSK	22.74	22.36
	100	DFT-S	QPSK	26.36	25.83
	100	DFT-S	16QAM	23	22.87
	100	DFT-S	64QAM	20.27	20.98
	100	CP	QPSK	22.89	22.41
	200	DFT-S	QPSK	22.16	21.56
	200	DFT-S	16QAM	20.23	19.97
	200	DFT-S	64QAM	16.84	17.21
	200	CP	QPSK	21.83	21.43
	300	DFT-S	QPSK	21.8	22.11
	300	DFT-S	16QAM	20.1	20.49
	300	DFT-S	64QAM	17.9	17.94
	300	CP	QPSK	22.15	22.11
	400	DFT-S	QPSK	21.33	21.2
	400	DFT-S	16QAM	19.66	20.26
	400	DFT-S	64QAM	17.72	17.86
	400	CP	QPSK	22.08	22.19

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.



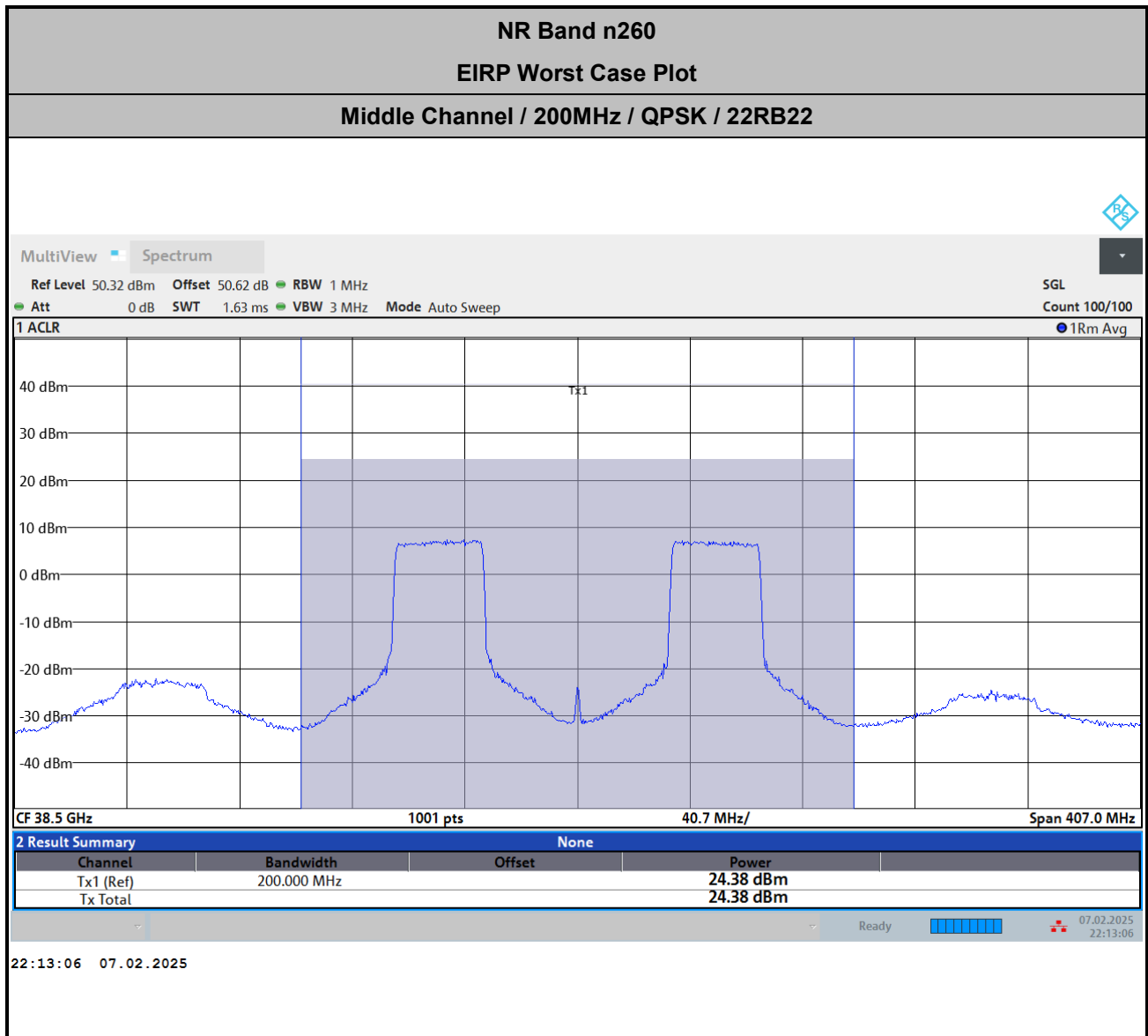
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 43.7 + 3.59 + 107 + 20\log(1) - 104.8 = 49.49 \text{ (dB)}$$



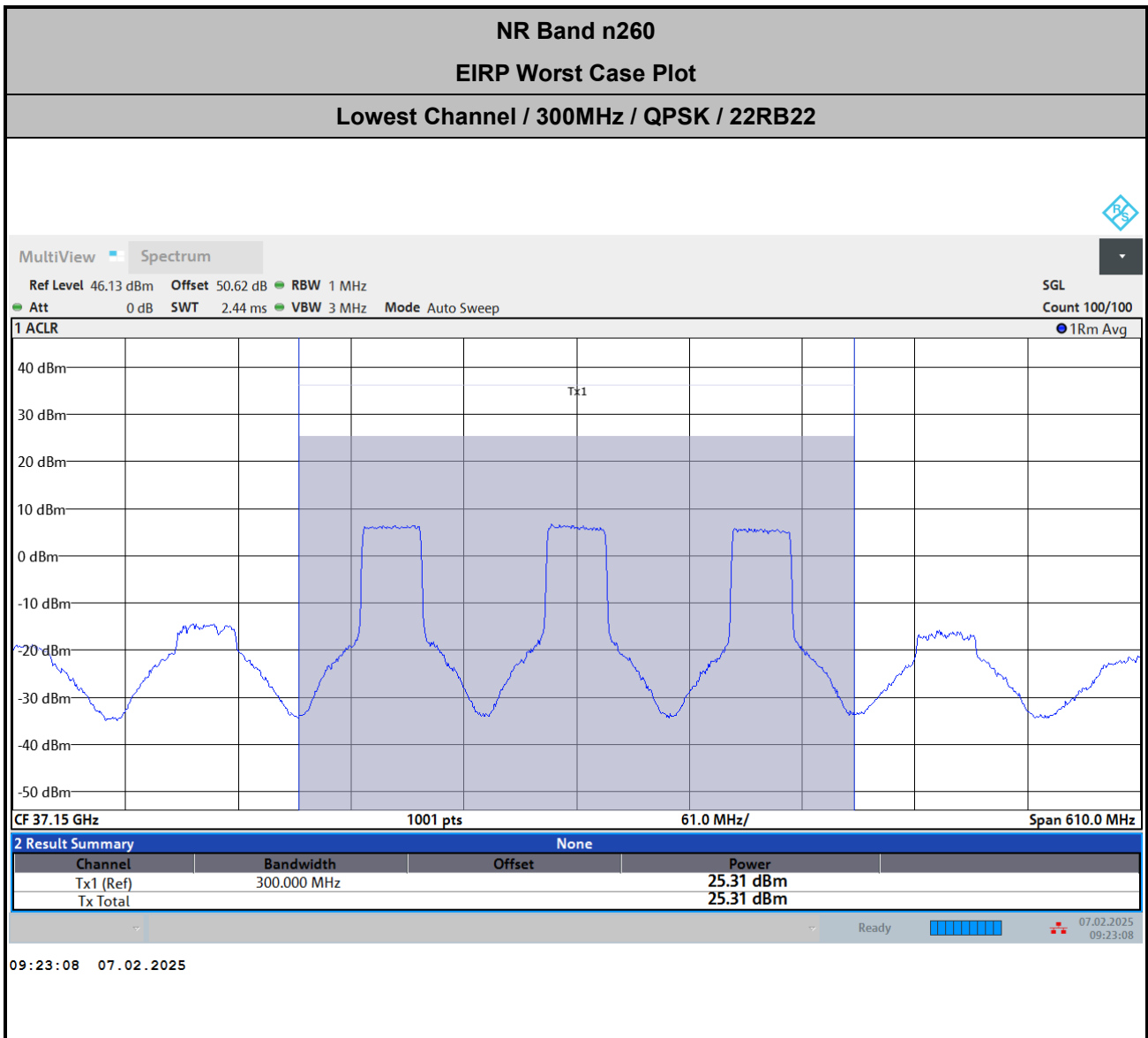
$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$

$= 43.7 + 3.59 + 107 + 20\log(1) - 104.8 = 49.49 \text{ (dB)}$



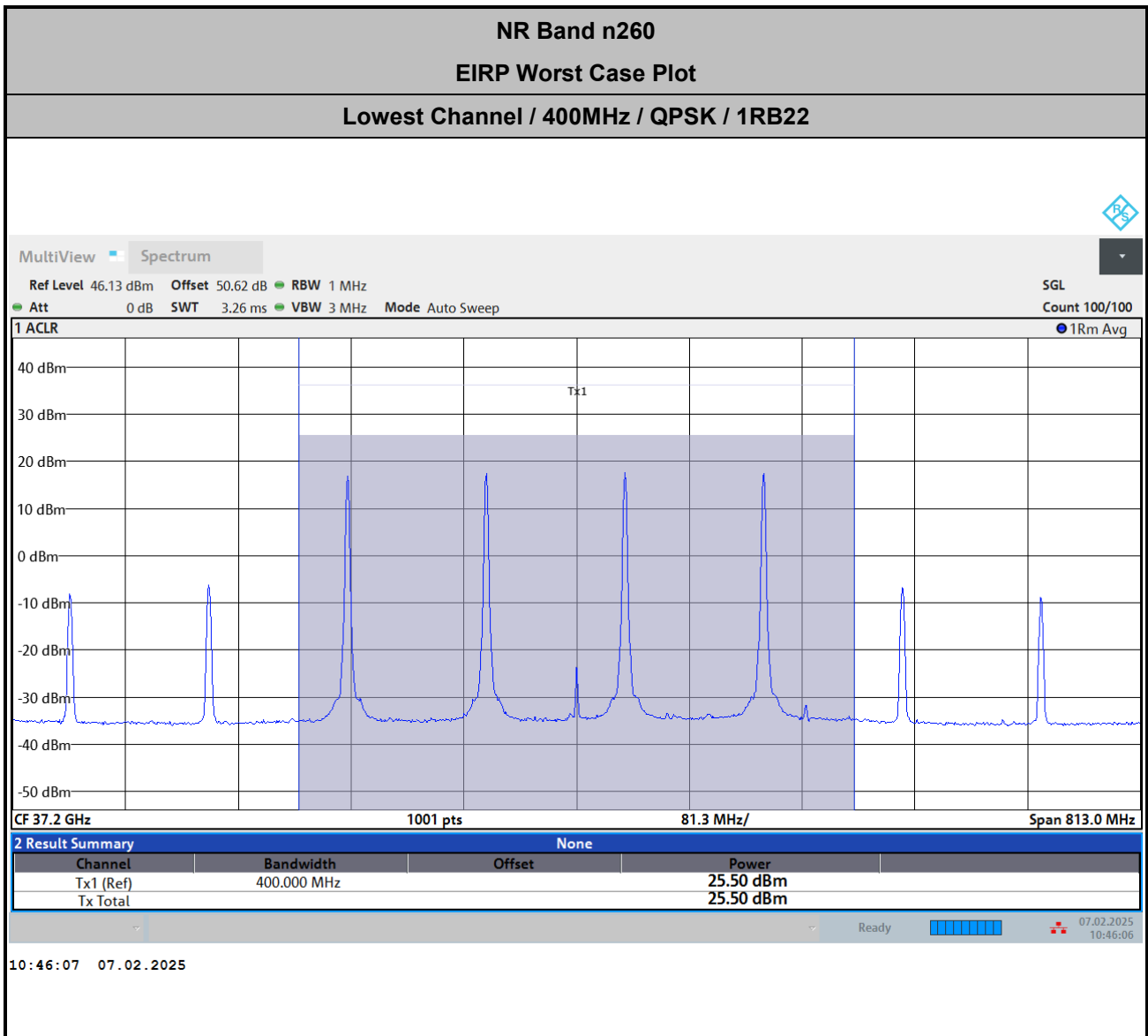
Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 43.7 + 3.59 + 107 + 20log(1) – 104.8 = 49.49 (dB)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8

= 43.7 + 3.59 + 107 + 20log(1) – 104.8 = 49.49 (dB)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8

= 43.7 + 3.59 + 107 + 20log(1) – 104.8 = 49.49 (dB)

NR Band n261 AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Lowest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	30.86	30.08
	50	DFT-S	16QAM	27.4	27.14
	50	DFT-S	64QAM	24.19	25.06
	50	CP	QPSK	27.52	27.14
	100	DFT-S	QPSK	30.27	30.35
	100	DFT-S	16QAM	28	27.53
	100	DFT-S	64QAM	25.05	25.31
	100	CP	QPSK	26.62	26.86
	200	DFT-S	QPSK	24.11	24.44
	200	DFT-S	16QAM	22.58	23.11
	200	DFT-S	64QAM	19.93	20.52
	200	CP	QPSK	25.1	24.97
	300	DFT-S	QPSK	23.68	24.07
	300	DFT-S	16QAM	22.35	22.74
	300	DFT-S	64QAM	20.25	20.2
	300	CP	QPSK	24.92	24.43
	400	DFT-S	QPSK	24.48	24.1
	400	DFT-S	16QAM	21.99	22.67
	400	DFT-S	64QAM	19.69	20.25
	400	CP	QPSK	24.98	24.3

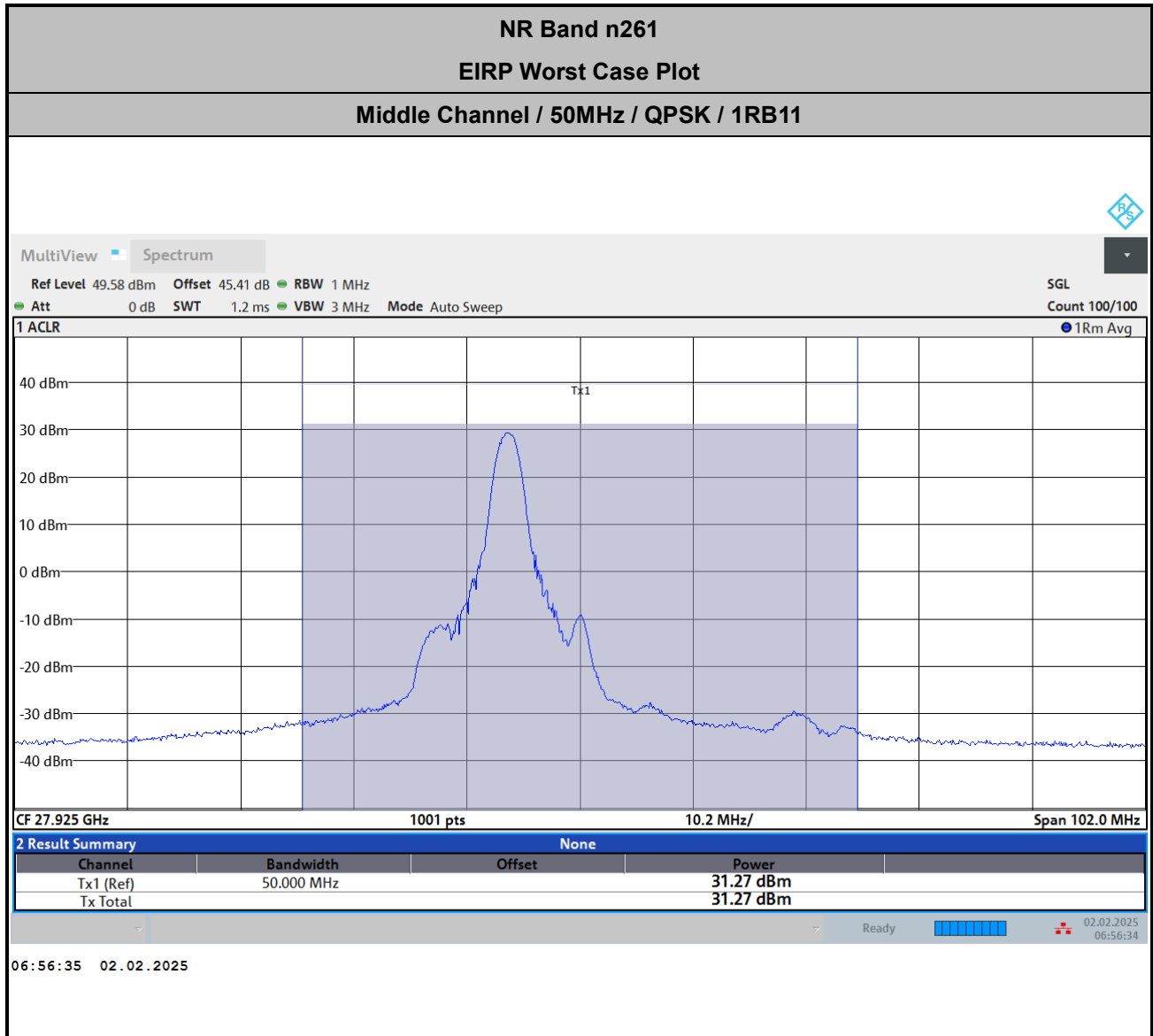
Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

NR Band n261 AGH+V (Beam ID:5+5)					
Maximum Average EIRP [dBm]					
Middle	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	31.27	31.08
	50	DFT-S	16QAM	28.09	27.79
	50	DFT-S	64QAM	25.94	25.89
	50	CP	QPSK	26.75	27.71
	100	DFT-S	QPSK	32.03	31.1
	100	DFT-S	16QAM	28.37	28.07
	100	DFT-S	64QAM	25.69	25.81
	100	CP	QPSK	27.66	27.43
	200	DFT-S	QPSK	25.28	24.74
	200	DFT-S	16QAM	22.72	23.26
	200	DFT-S	64QAM	20.36	20.74
	200	CP	QPSK	24.53	24.96
	300	DFT-S	QPSK	25	24.78
	300	DFT-S	16QAM	23.18	23.22
	300	DFT-S	64QAM	20.32	20.68
	300	CP	QPSK	24.66	24.78
	400	DFT-S	QPSK	24.81	24.89
	400	DFT-S	16QAM	22.95	23.42
	400	DFT-S	64QAM	20.22	20.64
	400	CP	QPSK	24.75	24.53

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.

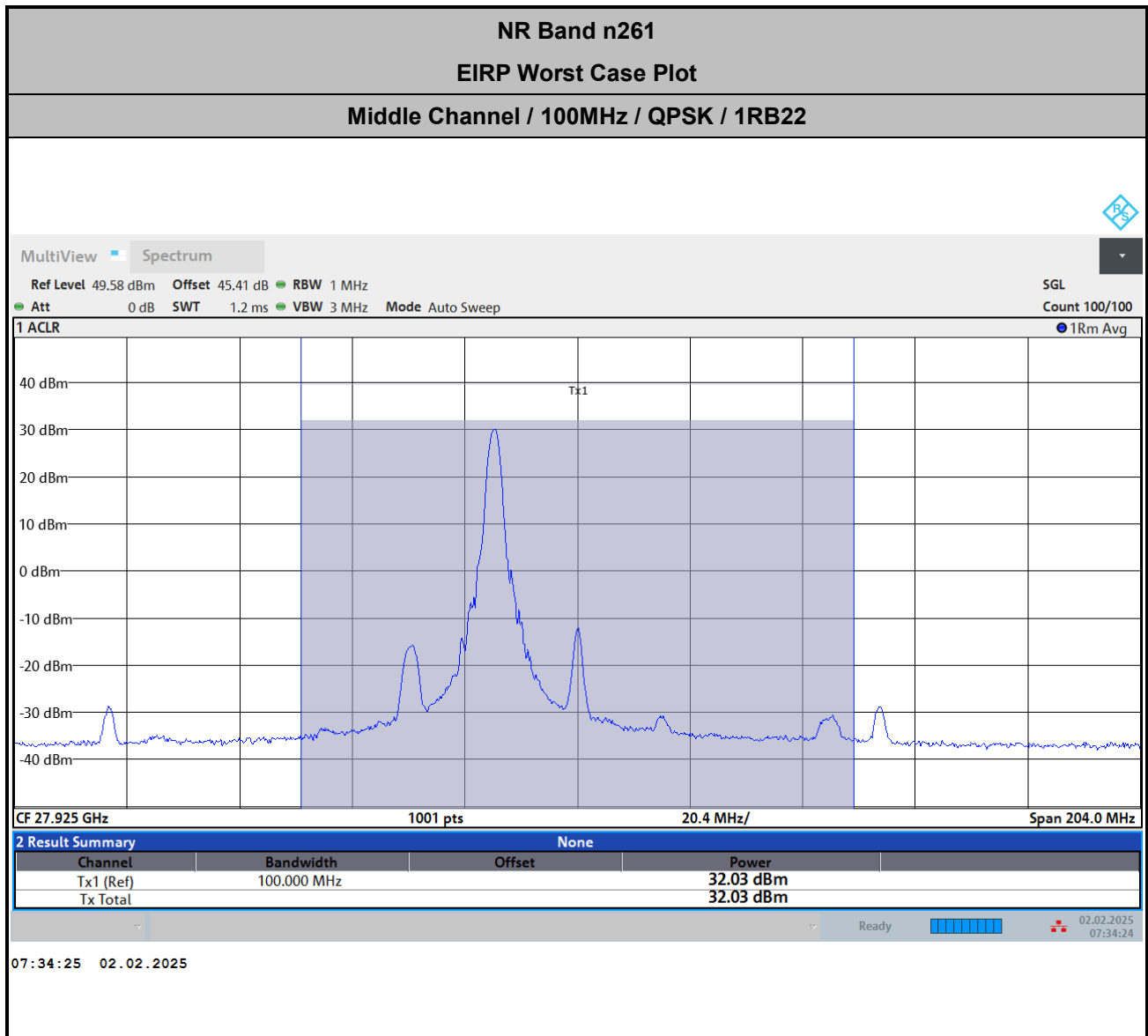
NR Band n261 AGH+V (Beam ID:3+3)					
Maximum Average EIRP [dBm]					
Highest	BW [MHz]	Waveform	Modulation	Inner 1RB	Inner Full
	50	DFT-S	QPSK	29.44	29.08
	50	DFT-S	16QAM	25.47	25.94
	50	DFT-S	64QAM	23.91	23.91
	50	CP	QPSK	26.87	26.32
	100	DFT-S	QPSK	29.35	29.24
	100	DFT-S	16QAM	26.81	25.93
	100	DFT-S	64QAM	23.55	24.32
	100	CP	QPSK	26.37	26.09
	200	DFT-S	QPSK	24.54	24.5
	200	DFT-S	16QAM	22.93	23.07
	200	DFT-S	64QAM	20.08	20.48
	200	CP	QPSK	24.39	24.79
	300	DFT-S	QPSK	24.74	24.75
	300	DFT-S	16QAM	23.35	23.29
	300	DFT-S	64QAM	20.11	20.68
	300	CP	QPSK	24.66	25.09
	400	DFT-S	QPSK	25.41	24.98
	400	DFT-S	16QAM	23.72	23.51
	400	DFT-S	64QAM	20.48	20.96
	400	CP	QPSK	24.41	25.03

Note : The 400MHz Bw is carrier aggregation by 4CC of 100MHz.



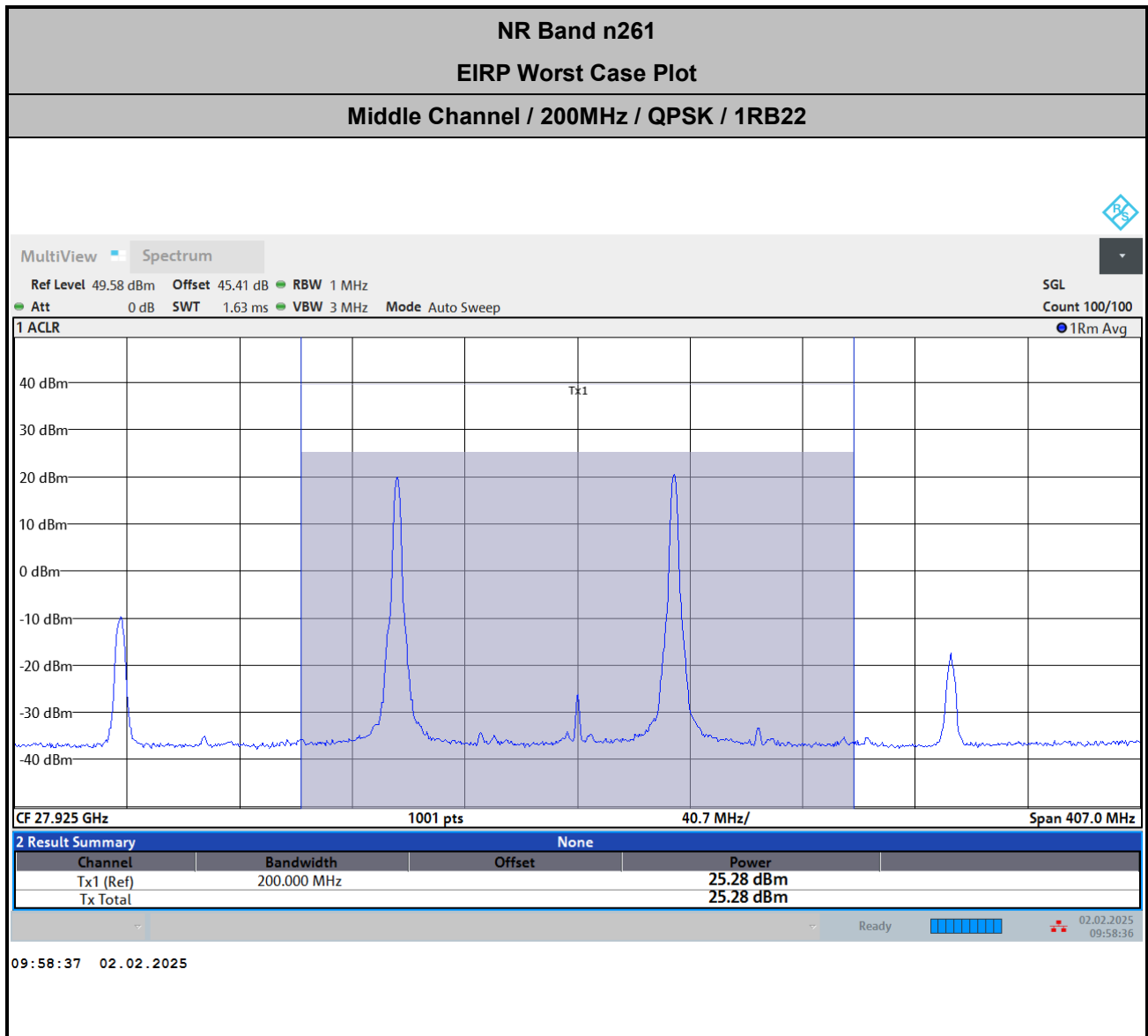
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 39.8 + 3.33 + 107 + 20\log(1) - 104.8 = 45.33 \text{ (dB)}$$



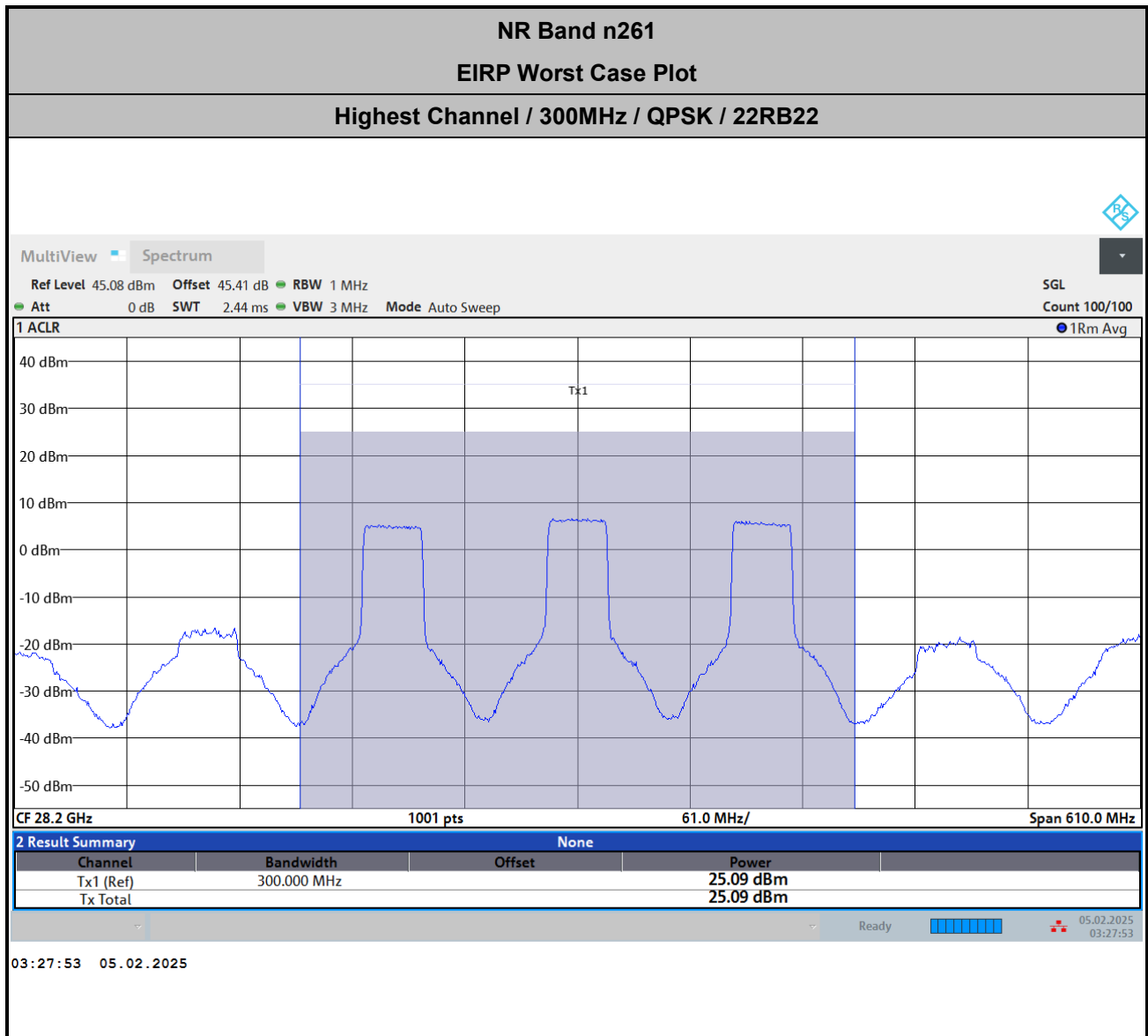
Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8

= 39.8 + 3.33 + 107 + 20log(1) – 104.8 = 45.33 (dB)



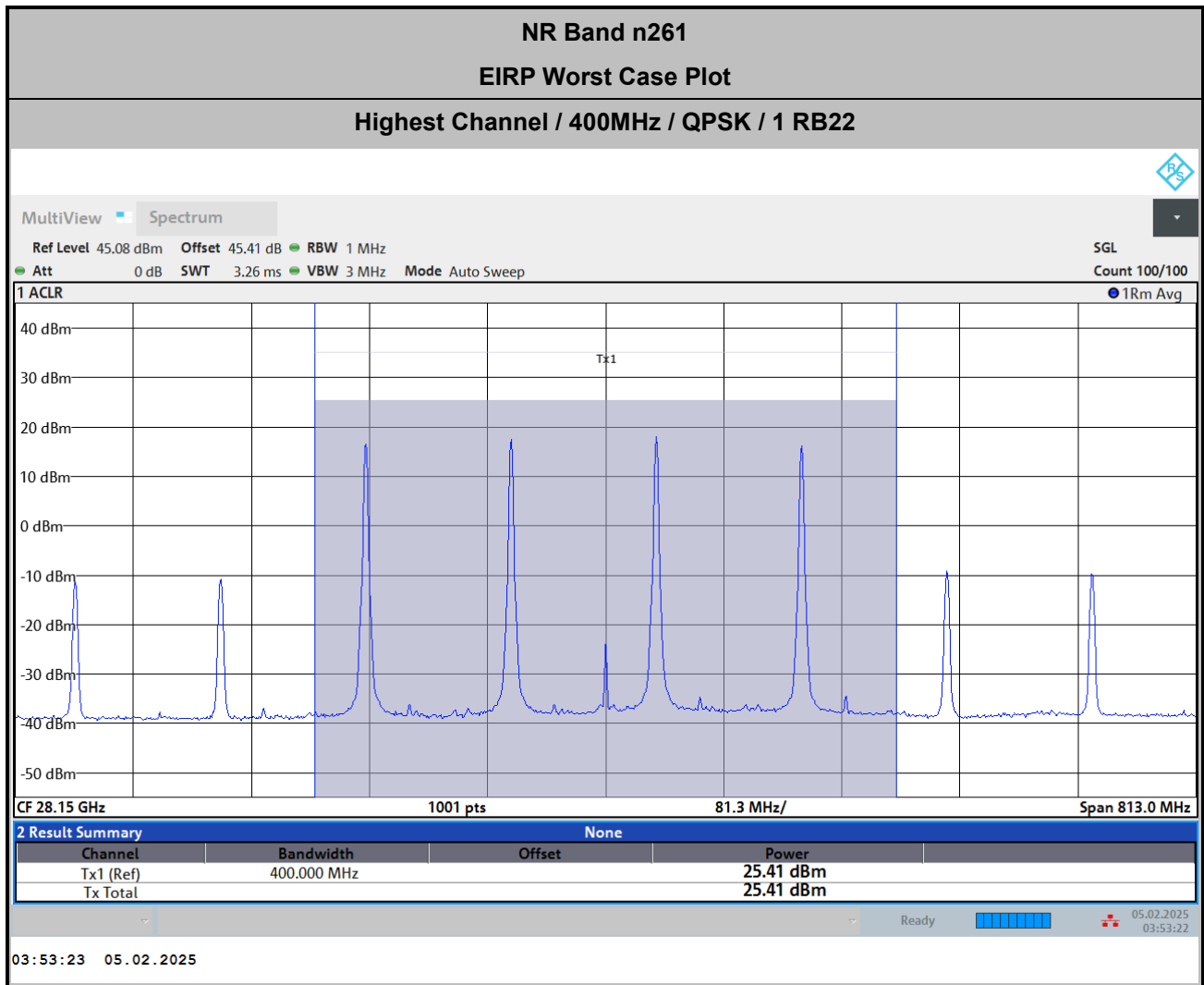
$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$

$= 39.8 + 3.33 + 107 + 20\log(1) - 104.8 = 45.33 \text{ (dB)}$



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8

= 39.8 + 3.33 + 107 + 20log(1) – 104.8 = 45.33 (dB)



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 39.8 + 3.33 + 107 + 20\log(1) - 104.8 = 45.33 \text{ (dB)}\end{aligned}$$

NR Band n258A

Occupied Bandwidth

Mode	DFT-s-OFDM NR Band n258A : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.17	45.93	45.95	90.99	91.01	90.89	-	-	-
Middle CH	46.16	46.02	46.08	91.08	91.26	91.22	191.15	191.08	190.96
Highest CH	45.93	45.96	46.06	91.19	91.03	91.02	-	-	-

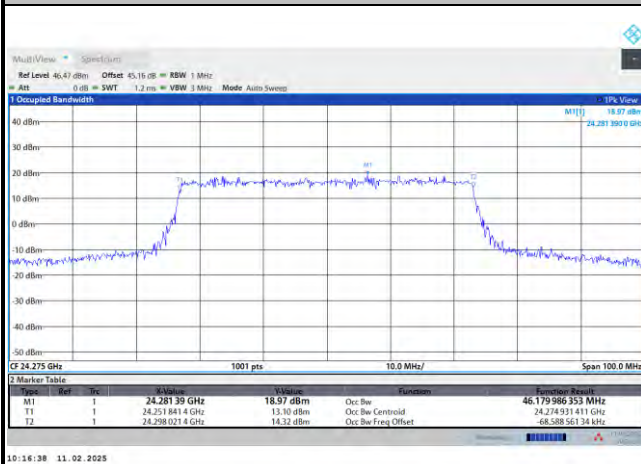
Mode	CP-OFDM NR Band n258A : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.05	93.81	-
Middle CH	46.02	94.01	194.62
Highest CH	46.07	93.91	-



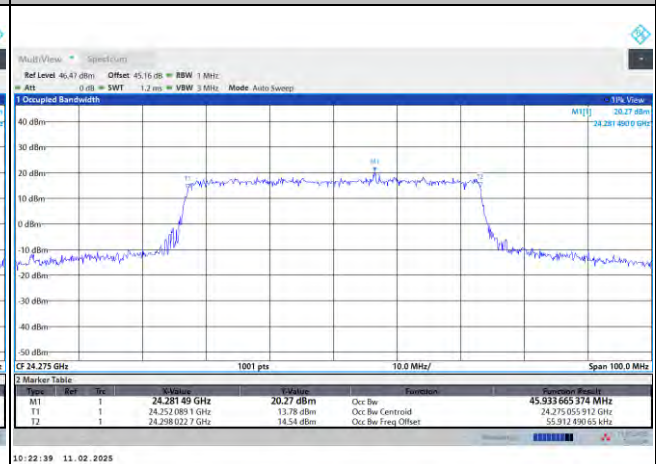
DFT-s-OFDM

NR Band n258A

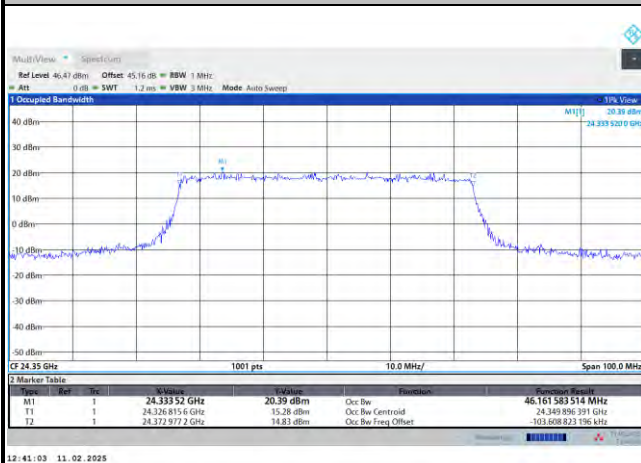
Lowest Channel / 50MHz / QPSK



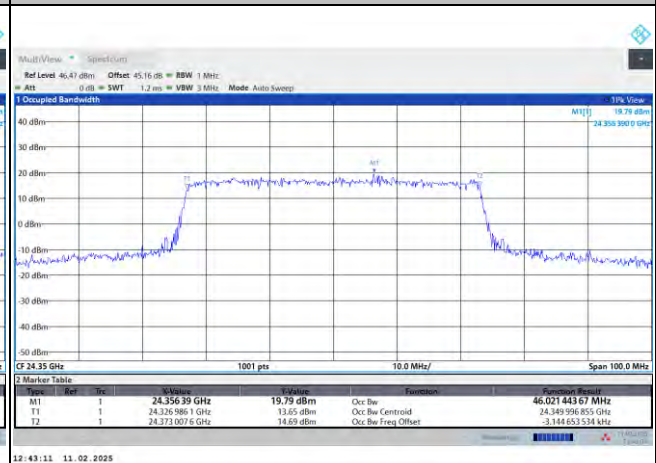
Lowest Channel / 50MHz / 16QAM



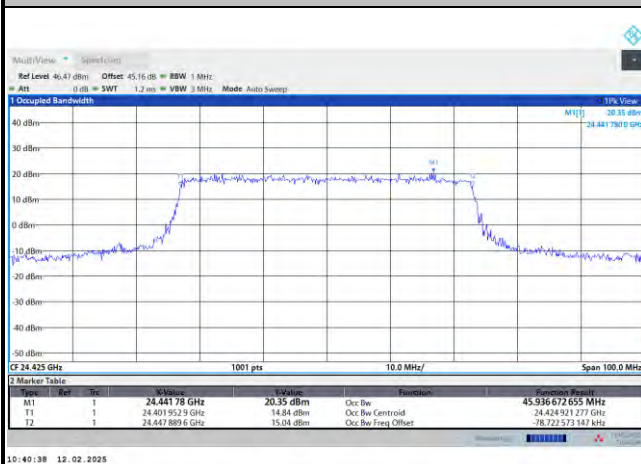
Middle Channel / 50MHz / QPSK



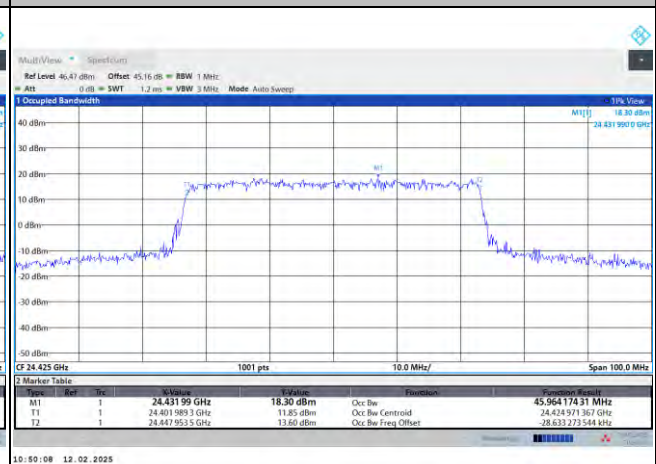
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

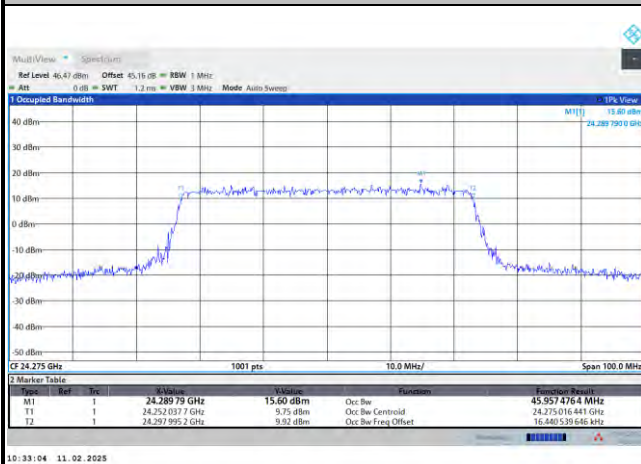




DFT-s-OFDM

NR Band n258A

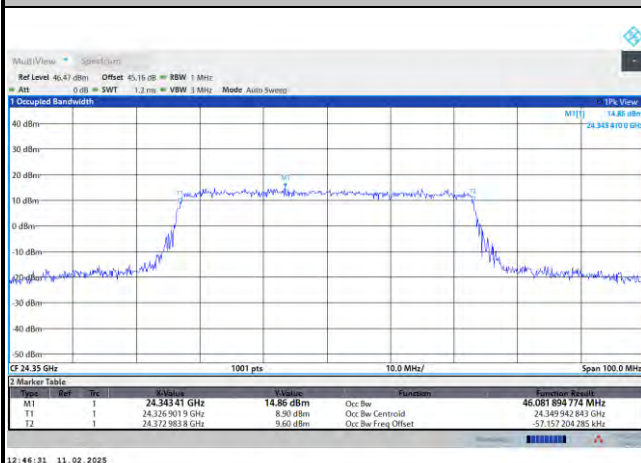
Lowest Channel / 50MHz / 64QAM



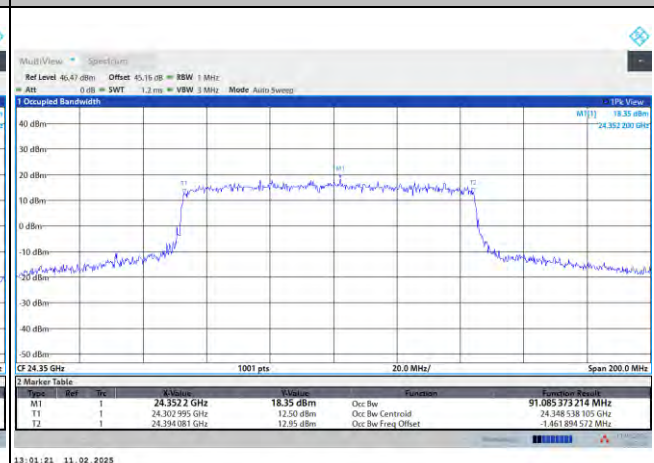
Lowest Channel / 100MHz / QPSK



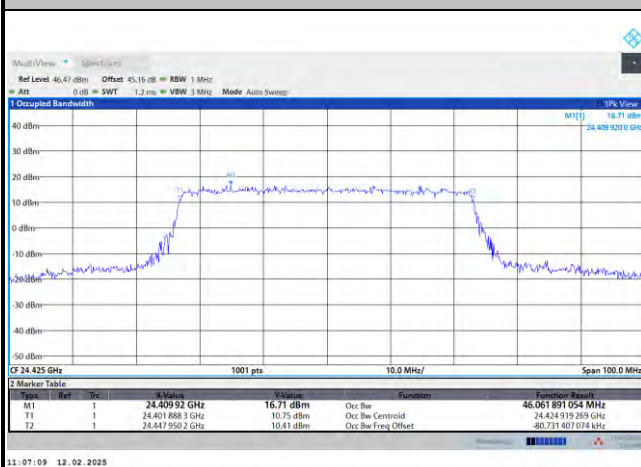
Middle Channel / 50MHz / 64QAM



Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

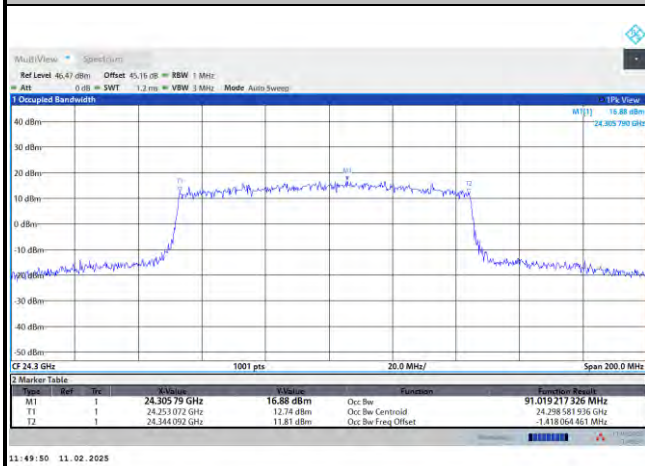




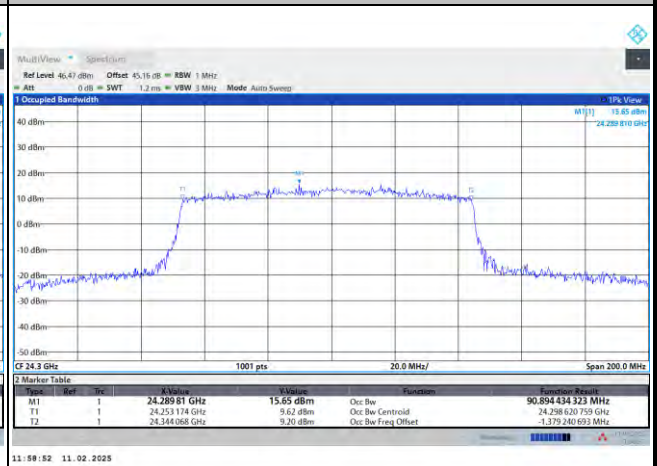
DFT-s-OFDM

NR Band n258A

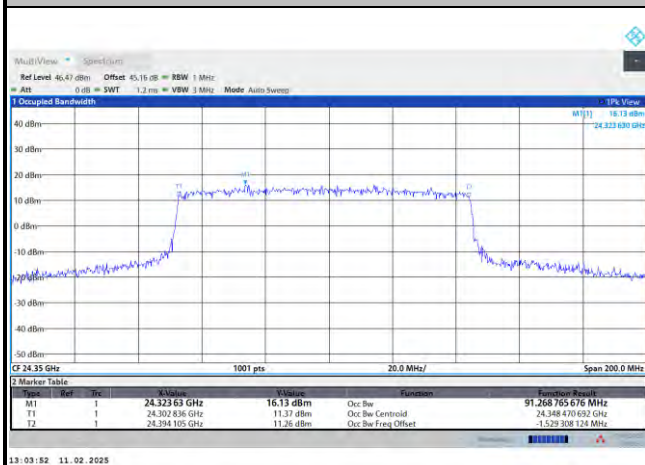
Lowest Channel / 100MHz / 16QAM



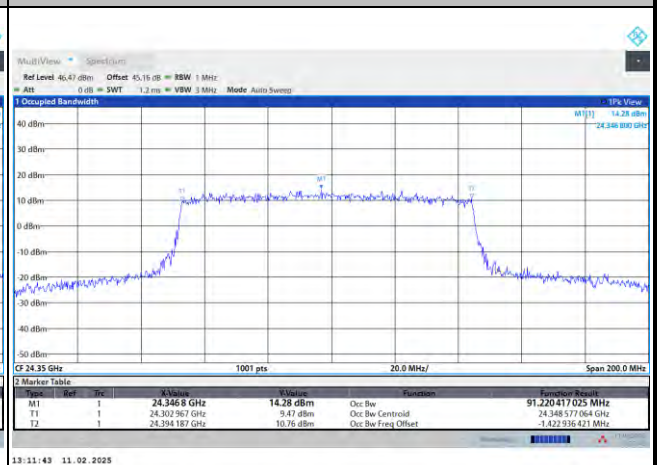
Lowest Channel / 100MHz / 64QAM



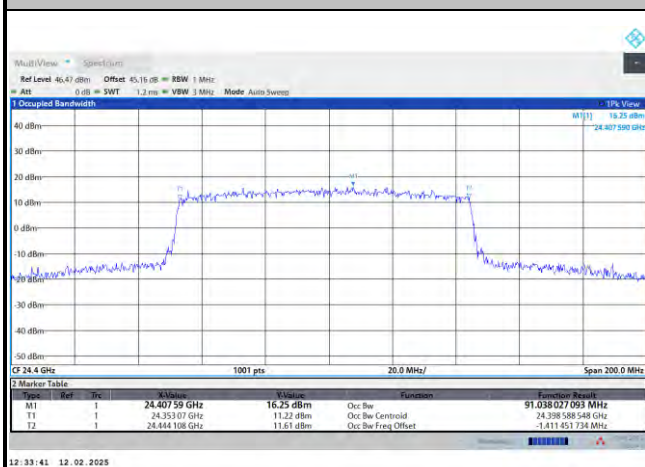
Middle Channel / 100MHz / 16QAM



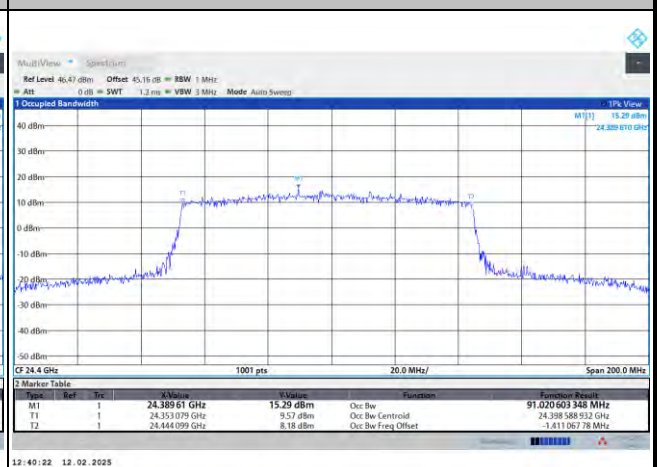
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

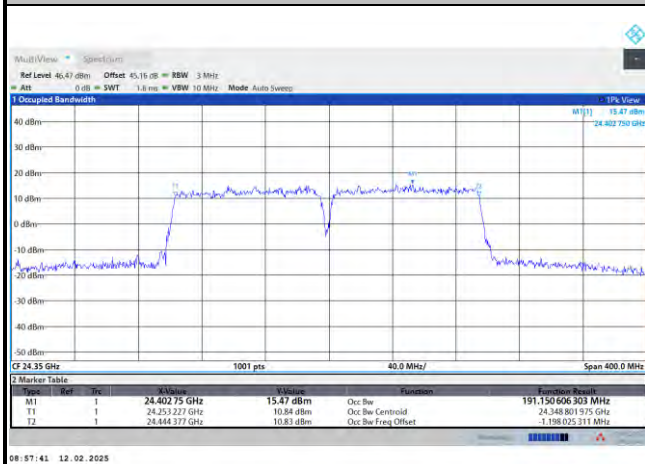




DFT-s-OFDM

NR Band n258A

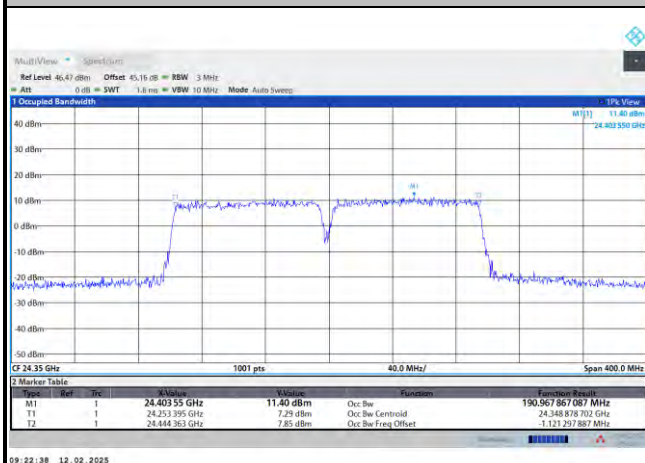
Middle Channel / 200MHz / QPSK



Middle Channel / 200MHz / 16QAM



Middle Channel / 200MHz / 64QAM



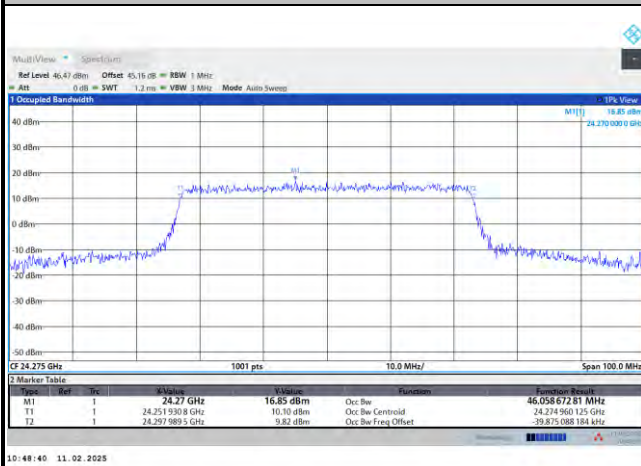
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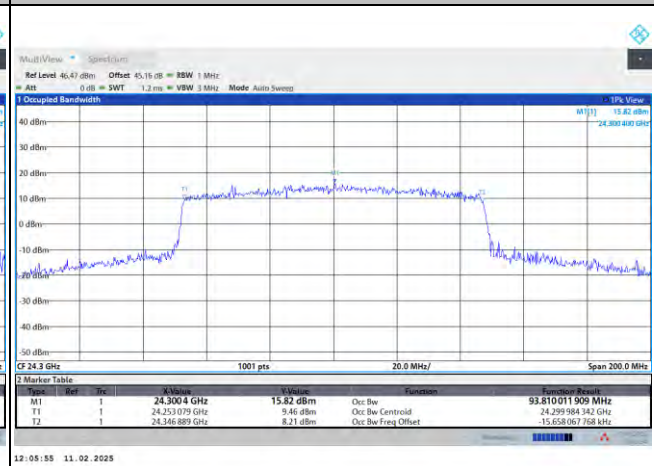
CP-OFDM

NR Band n258A

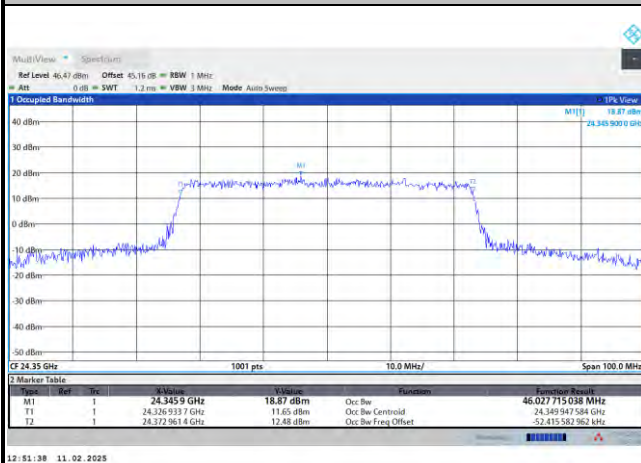
Lowest Channel / 50MHz / QPSK



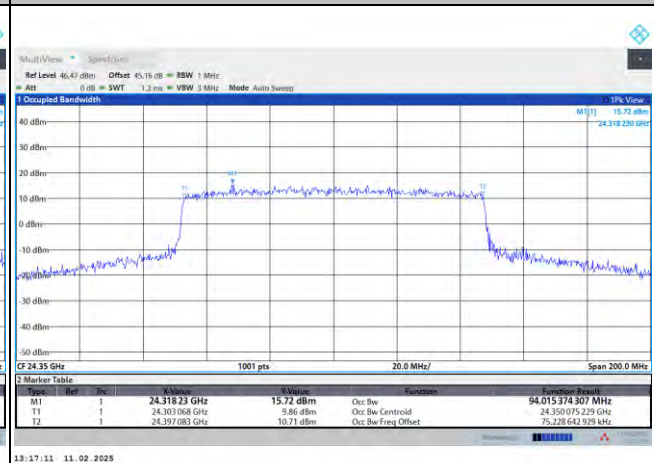
Lowest Channel / 100MHz / QPSK



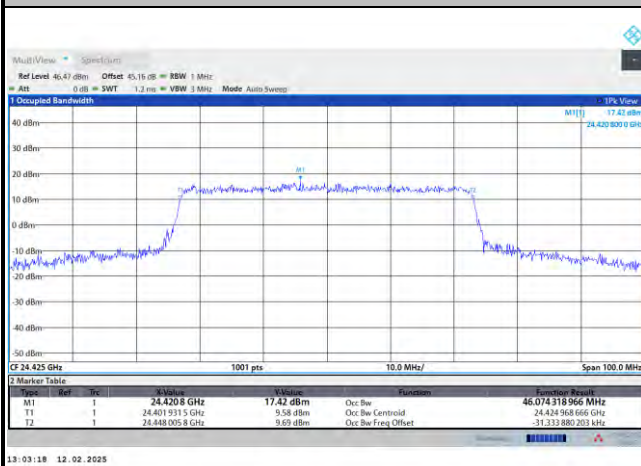
Middle Channel / 50MHz / QPSK



Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK

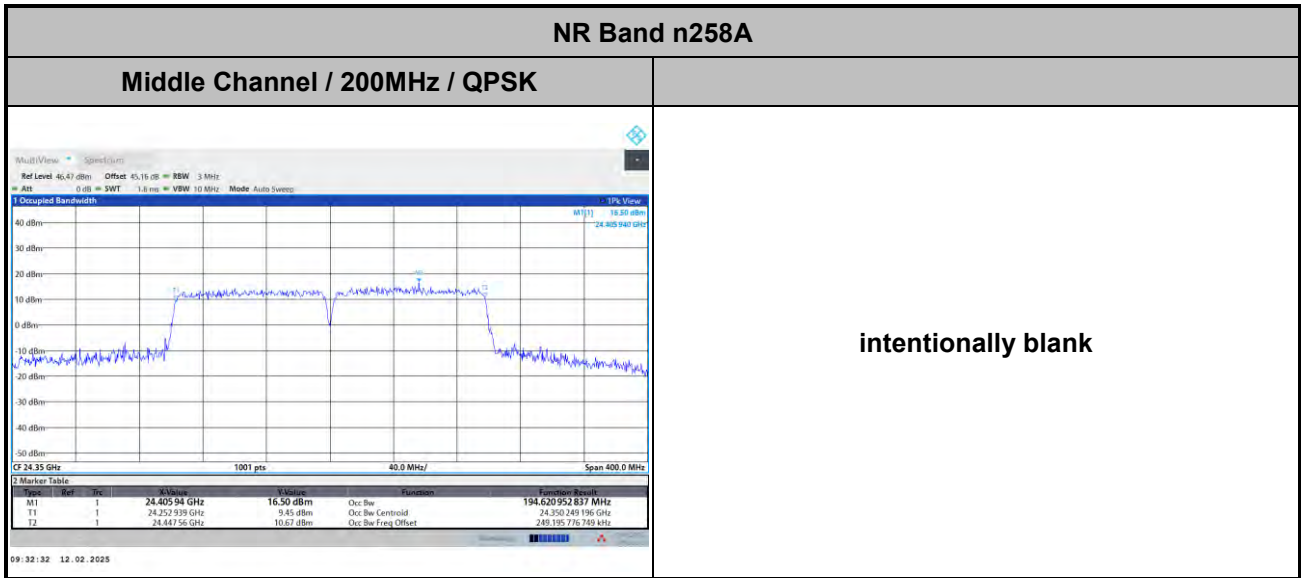


Highest Channel / 100MHz / QPSK





CP-OFDM



Radiated Out of Band Emissions

Mode			DFT-s-OFDM NR Band n258A : BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-18.460	-5.20	-7.22	-7.37	-9.53	-11.65
	>10%OB	≤ -13	-31.590	-25.36	-25.45	-30.26	-30.28	-30.39
High CH	0~10%OB	≤ -5	-17.279	-5.74	-9.06	-8.14	-9.93	-13.61
	>10%OB	≤ -13	-31.353	-24.94	-25.08	-29.93	-29.93	-30.06
Result			Compliance					

Mode			CP-OFDM NR Band n258A : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-5.63	-8.38
	>10%OB	≤ -13	-25.41	-30.29
High CH	0~10%OB	≤ -5	-6.86	-9.76
	>10%OB	≤ -13	-24.66	-29.99
Result			Compliance	

Mode			DFT-s-OFDM NR Band n258A : BE (dBm) 1 RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Mid CH	0~10%OB	≤ -5	-13.01	-15.77	-19.54
	>10%OB	≤ -13	-15.06	-17.93	-22.17

Mode			CP-OFDM NR Band n258A : BE (dBm) 1 RB	
BW			200MHz	
Limit (dBm)			QPSK	
Mid CH	0~10%OB	≤ -5	-21.540	
	>10%OB	≤ -13	-22.005	

Mode			DFT-s-OFDM NR Band n258A : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-12.92	-15.73	-17.34	-17.24	-19.01	-20.92
	>10%OB	≤ -13	-16.58	-18.56	-21.91	-19.40	-22.10	-25.51
High CH	0~10%OB	≤ -5	-12.91	-15.31	17.39	-18.20	-19.86	-23.24
	>10%OB	≤ -13	-16.32	-17.75	-21.24	-20.04	-21.26	-24.77
Result			Compliance					

Mode			CP-OFDM NR Band n258A : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-14.89	-18.63
	>10%OB	≤ -13	-17.32	-20.42
High CH	0~10%OB	≤ -5	-13.96	-18.54
	>10%OB	≤ -13	-16.69	-20.30
Result			Compliance	

Mode			DFT-s-OFDM NR Band n258A : BE (dBm) Full RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Mid CH	0~10%OB	≤ -5	-24.51	-25.65	-28.84
	>10%OB	≤ -13	-26.16	-27.90	-29.48

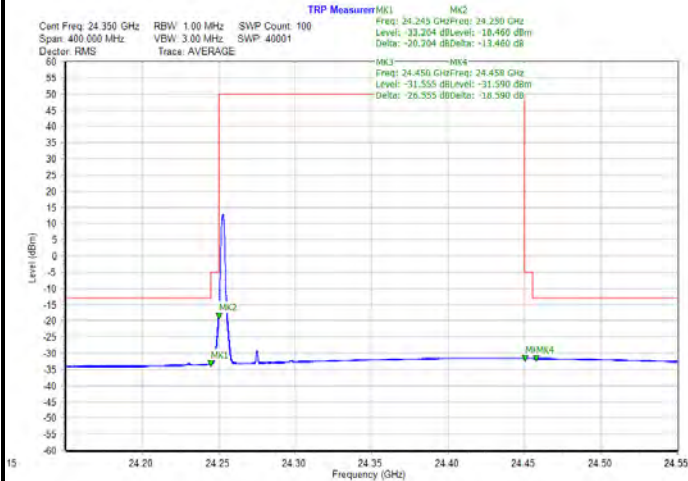
Mode			CP-OFDM NR Band n258A : BE (dBm) Full RB	
BW			200MHz	
Limit (dBm)			QPSK	
Mid CH	0~10%OB	≤ -5	-22.37	
	>10%OB	≤ -13	-24.79	



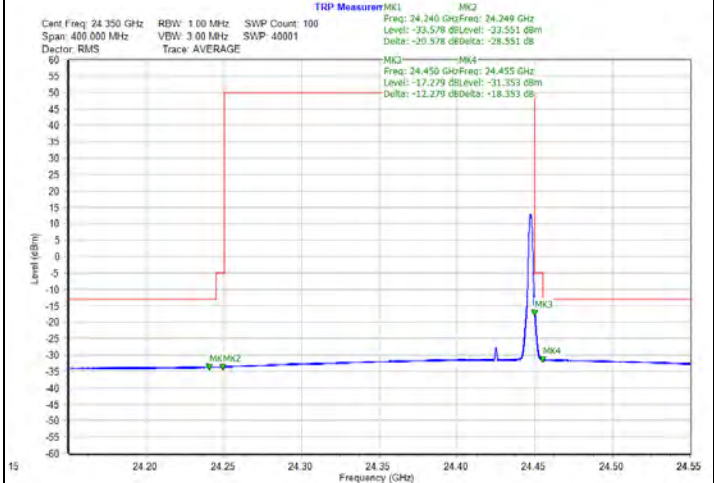
DFT-s-OFDM

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / 1 RB

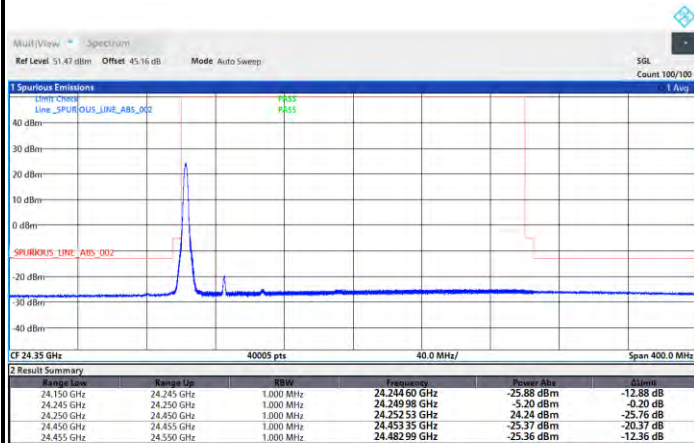


Highest Band Edge / 1 RB

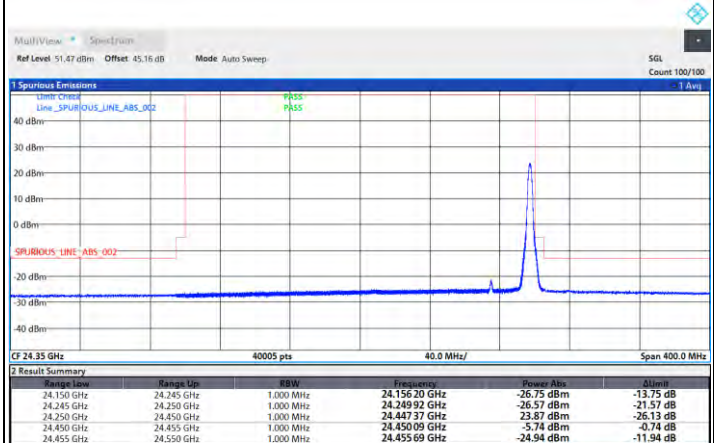


NR Band n258A/ 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

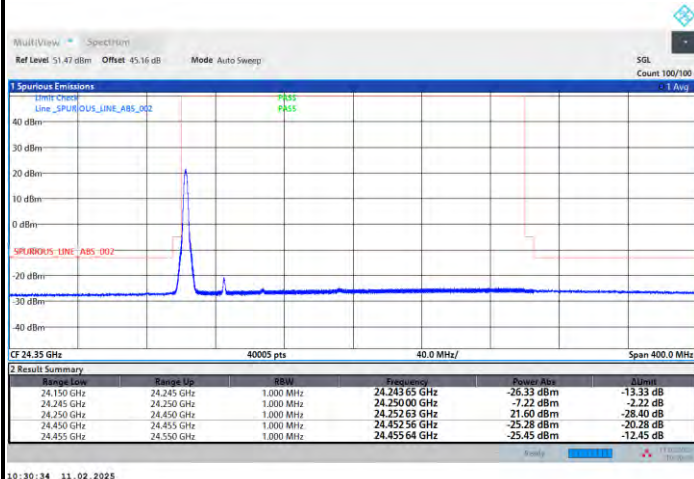




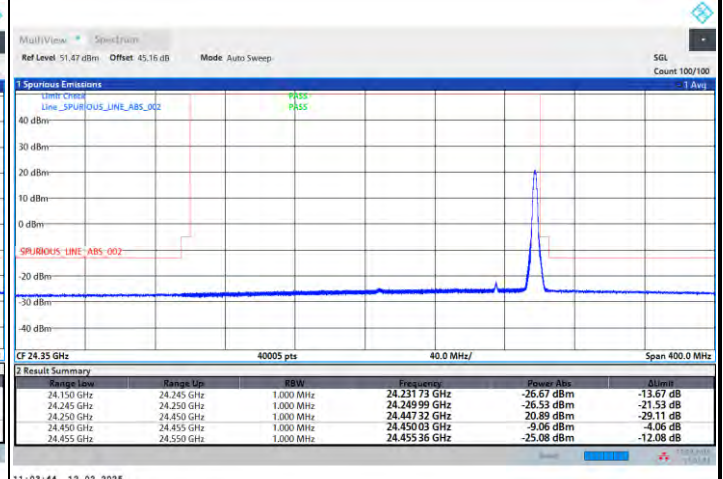
DFT-s-OFDM

NR Band n258A/ 50MHz / 64QAM

Lowest Band Edge / 1 RB

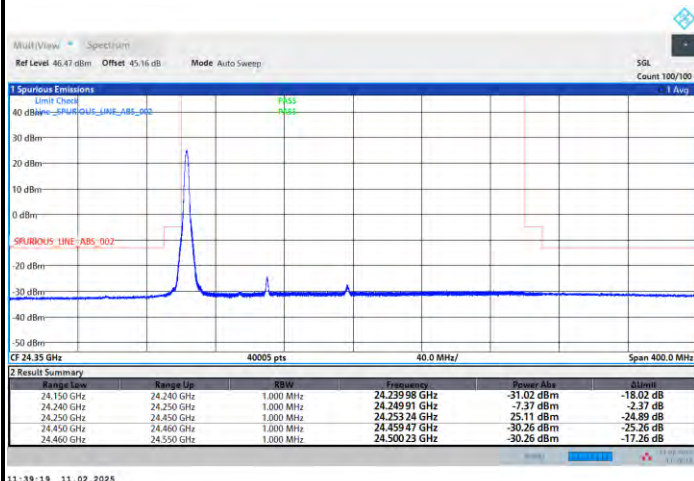


Highest Band Edge / 1 RB

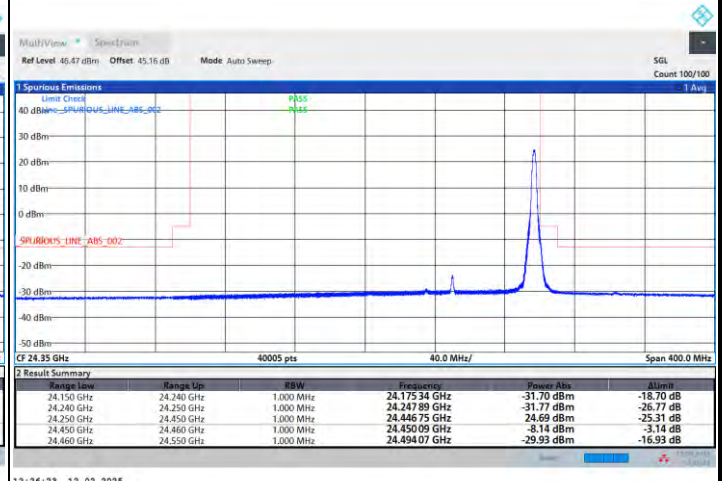


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

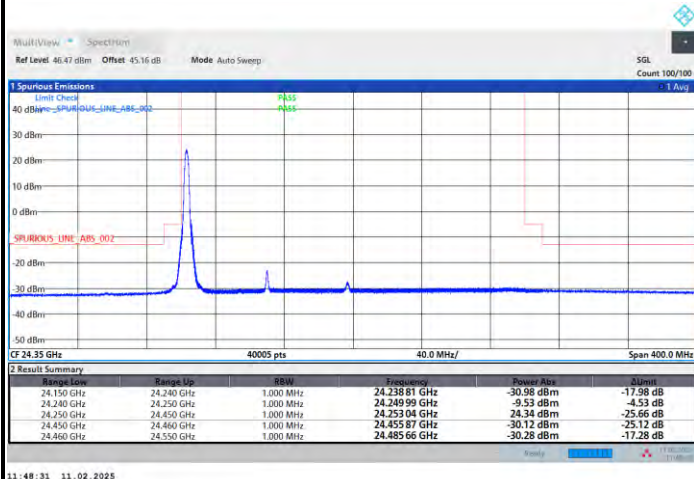




DFT-s-OFDM

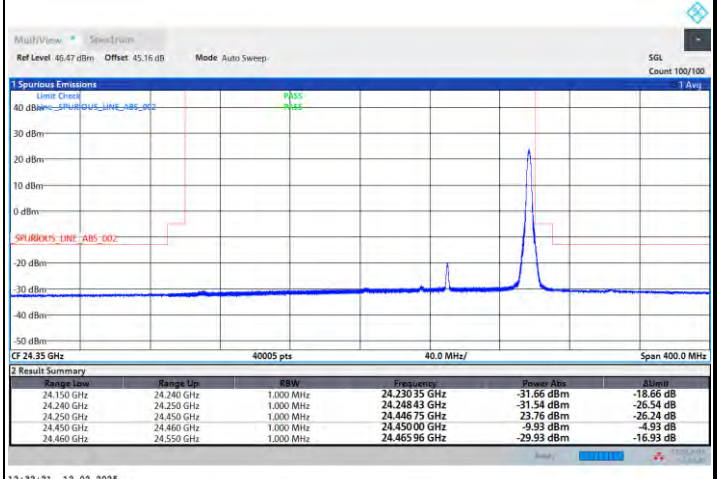
NR Band n258A/ 100MHz / 16QAM

Lowest Band Edge / 1 RB



11:48:31 11.02.2025

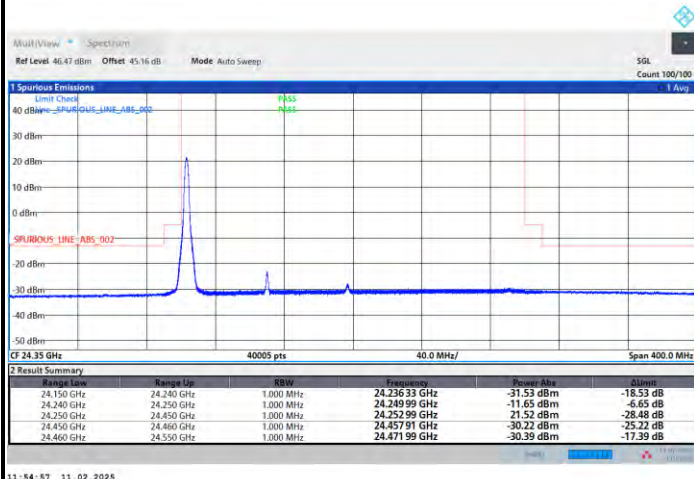
Highest Band Edge / 1 RB



12:32:21 12.02.2025

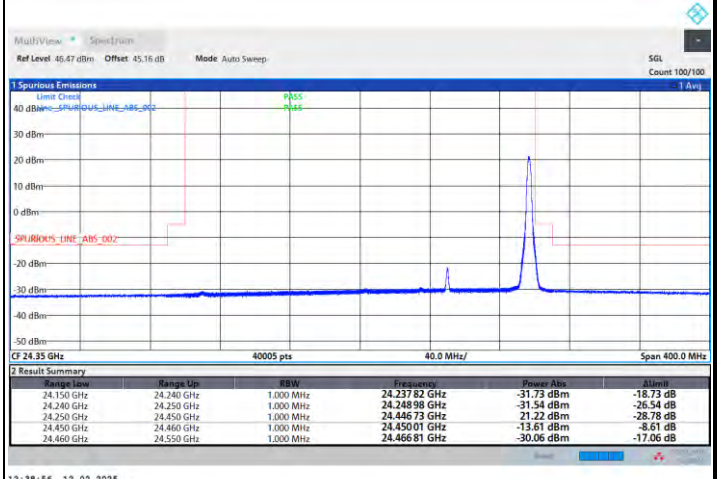
NR Band n258A/ 100MHz / 64QAM

Lowest Band Edge / 1 RB



11:54:57 11.02.2025

Highest Band Edge / 1 RB



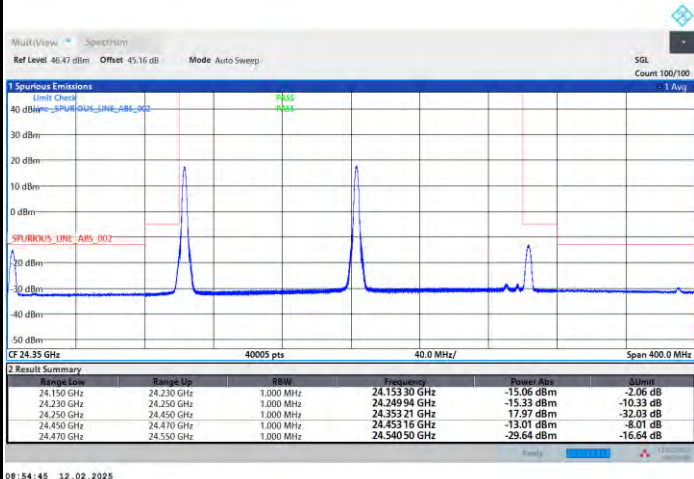
12:38:56 12.02.2025



DFT-s-OFDM

NR Band n258A/ 200MHz / QPSK

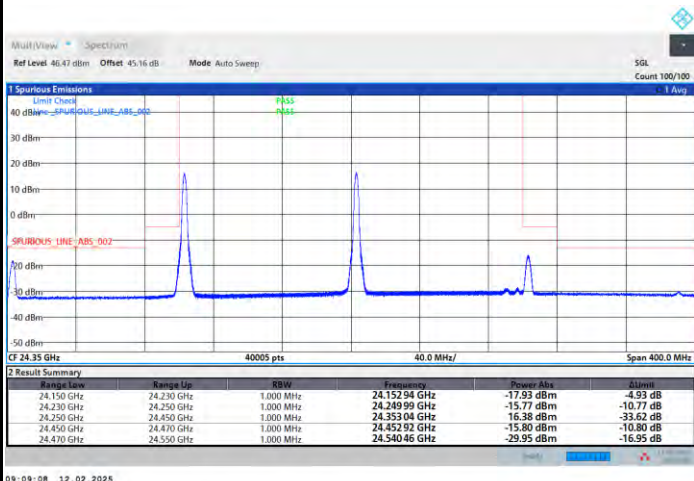
Middle Band Edge / 1 RB



intentionally blank

NR Band n258A/ 200MHz / 16QAM

Middle Band Edge / 1 RB



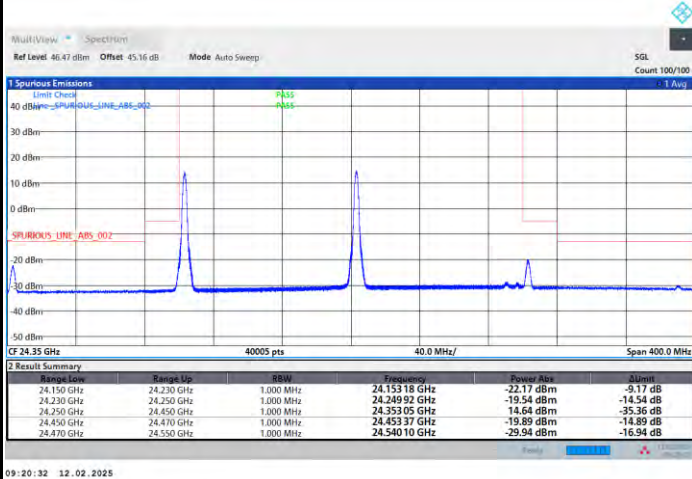
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DFT-s-OFDM

NR Band n258A/ 200MHz / 64QAM

Middle Band Edge / 1 RB



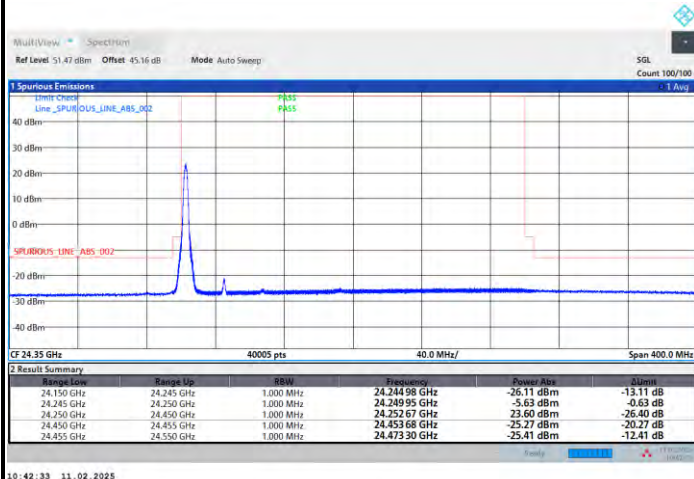
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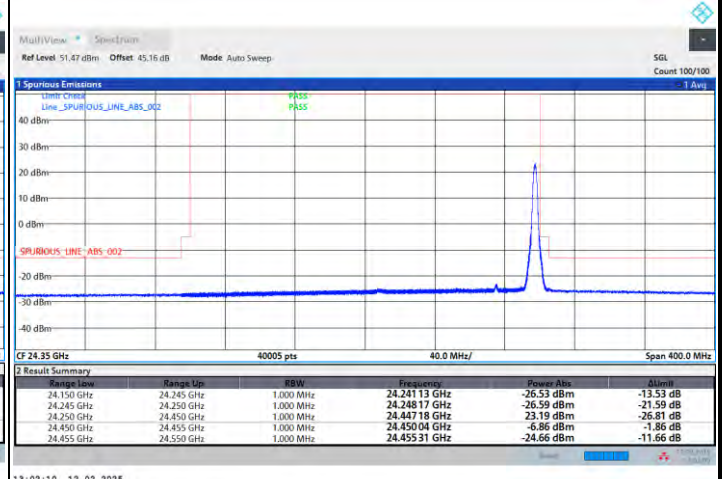
CP-OFDM

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / 1 RB

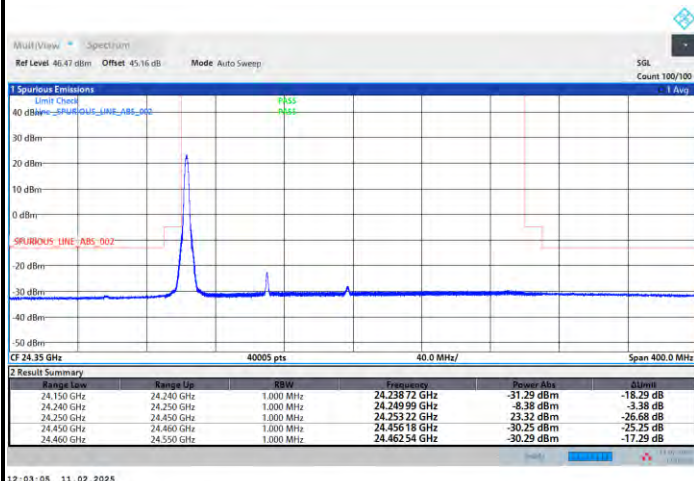


Highest Band Edge / 1 RB

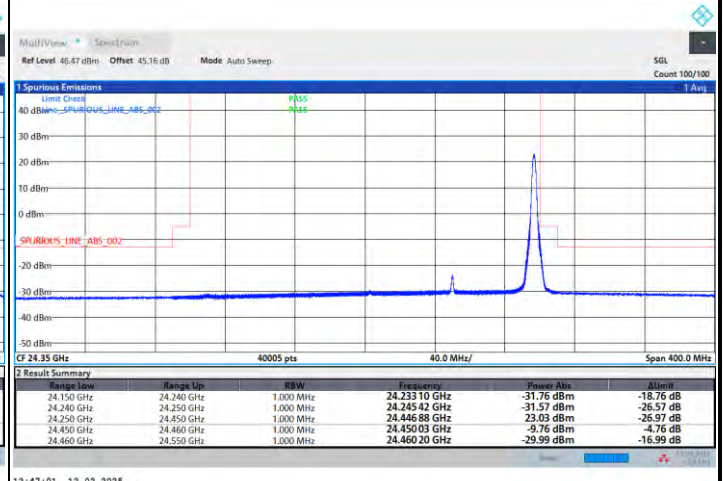


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / 1 RB

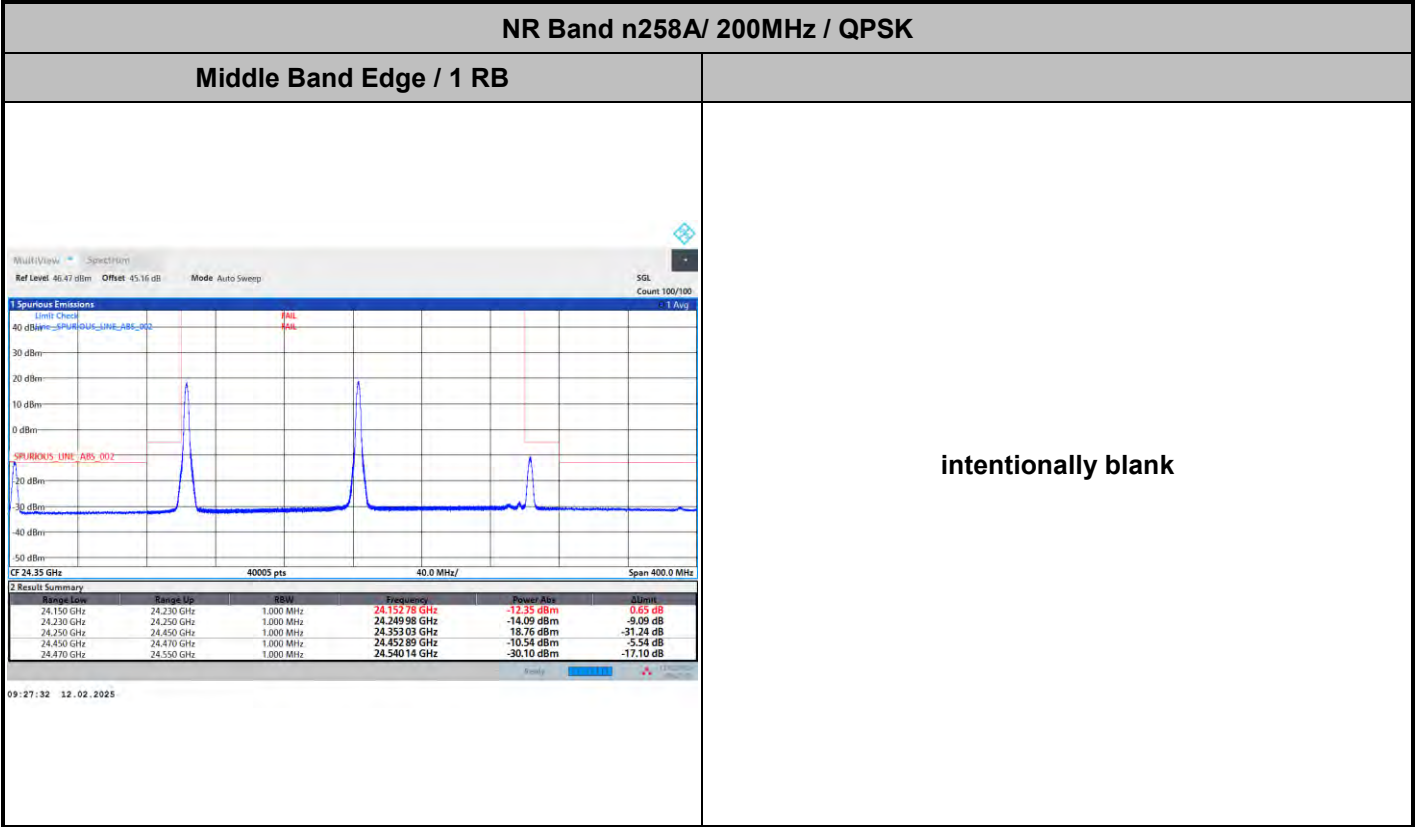


Highest Band Edge / 1 RB





CP-OFDM

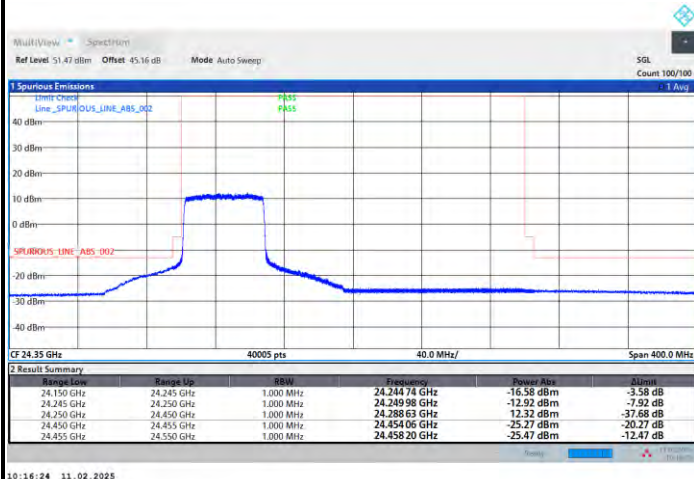




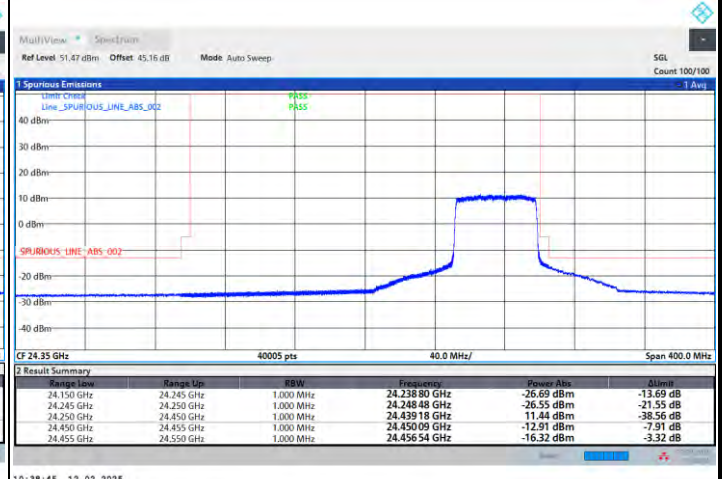
DFT-s-OFDM

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB

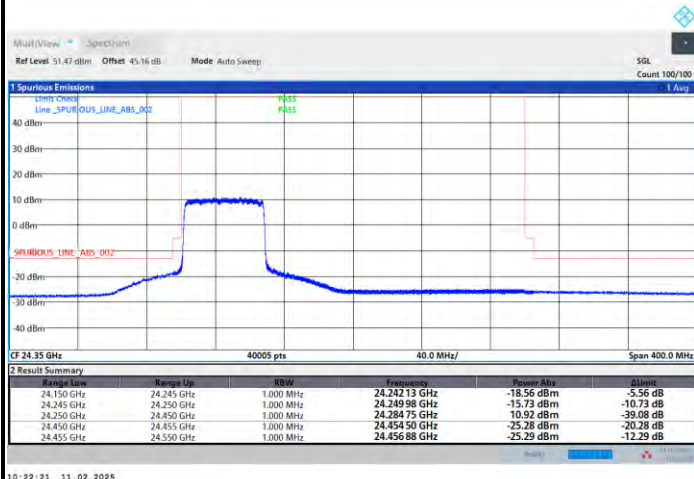


Highest Band Edge / Full RB



NR Band n258A/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

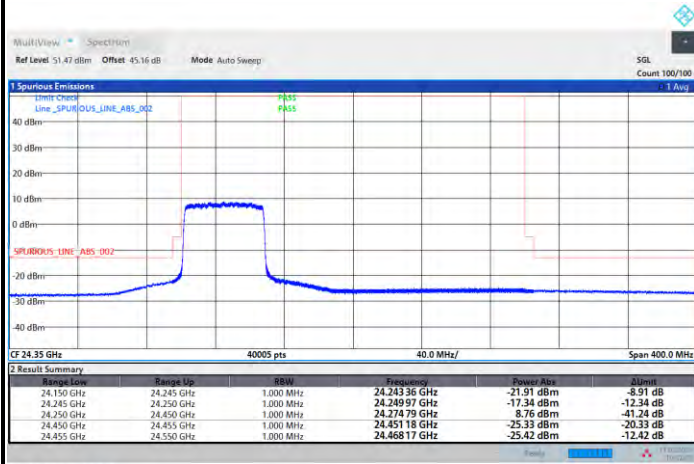




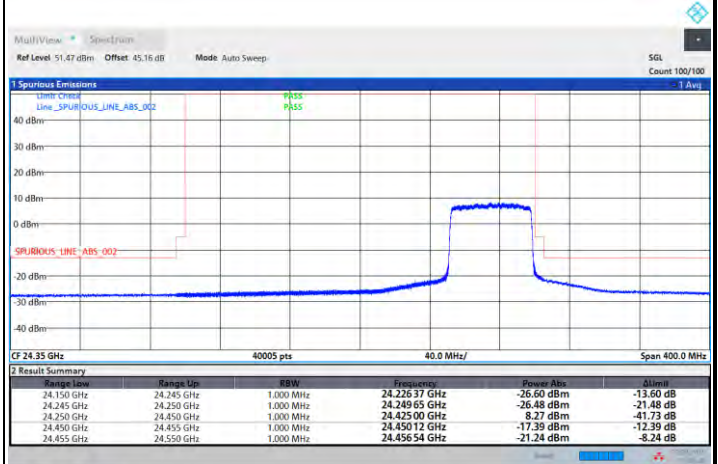
DFT-s-OFDM

NR Band n258A/ 50MHz / 64QAM

Lowest Band Edge / Full RB

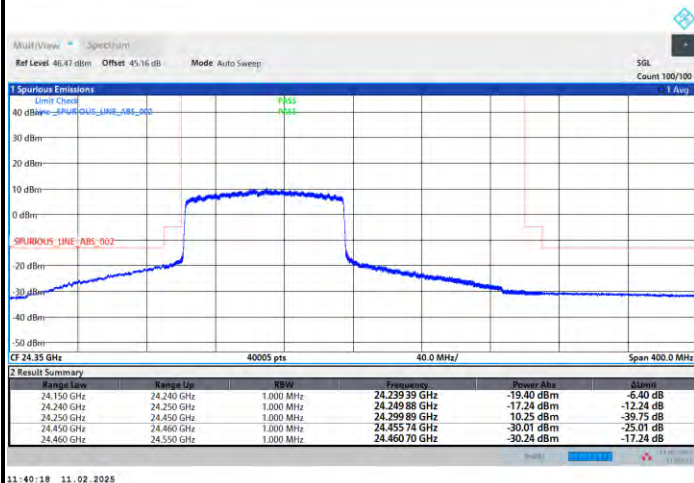


Highest Band Edge / Full RB

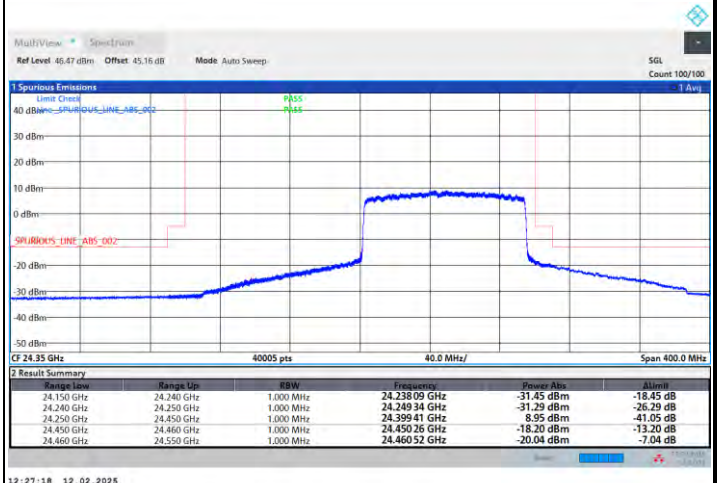


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

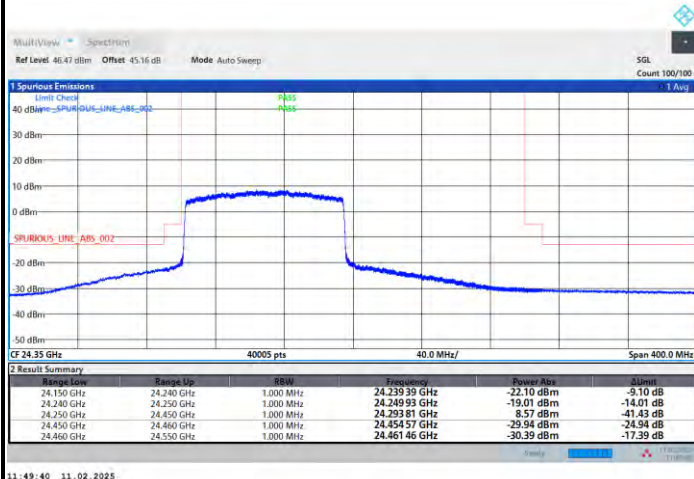




DFT-s-OFDM

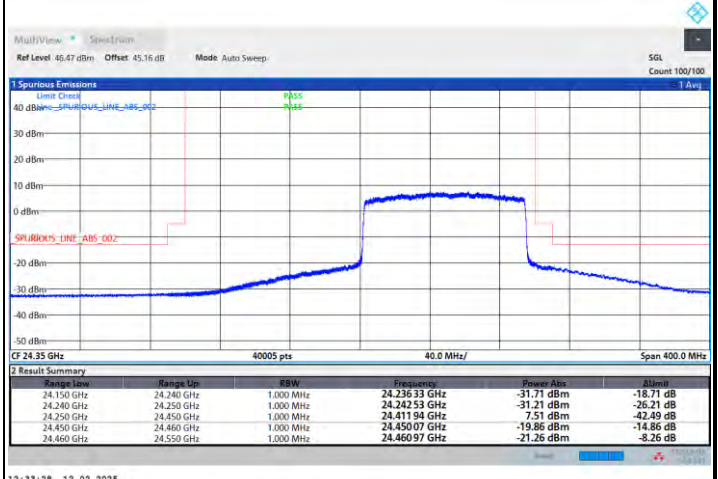
NR Band n258A/ 100MHz / 16QAM

Lowest Band Edge / Full RB



11:49:40 11.02.2025

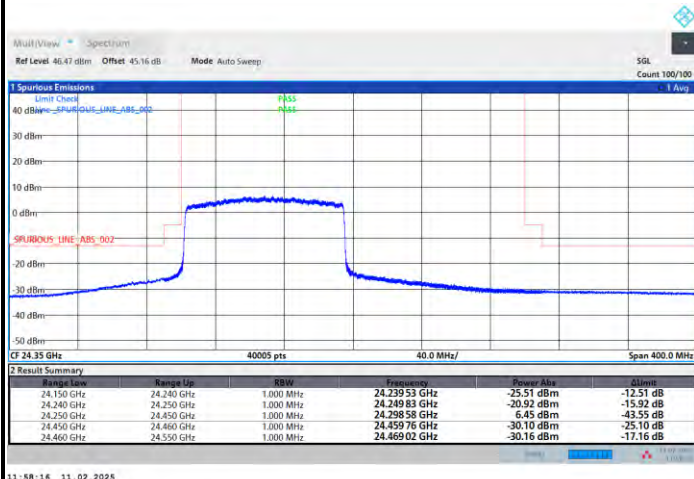
Highest Band Edge / Full RB



12:33:28 12.02.2025

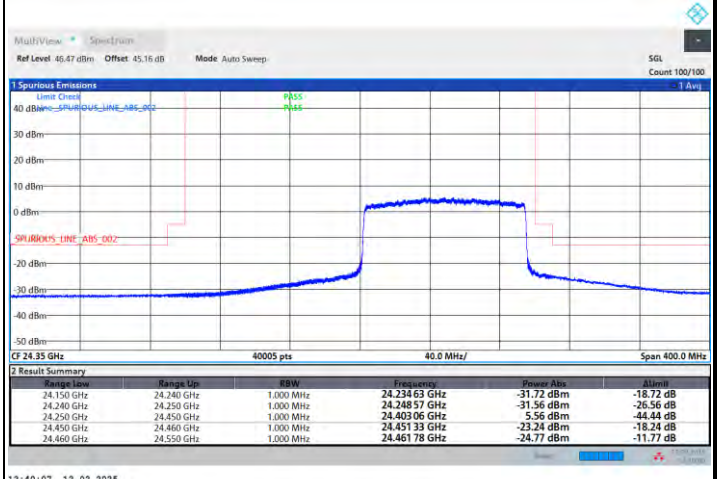
NR Band n258A/ 100MHz / 64QAM

Lowest Band Edge / Full RB



11:58:16 11.02.2025

Highest Band Edge / Full RB



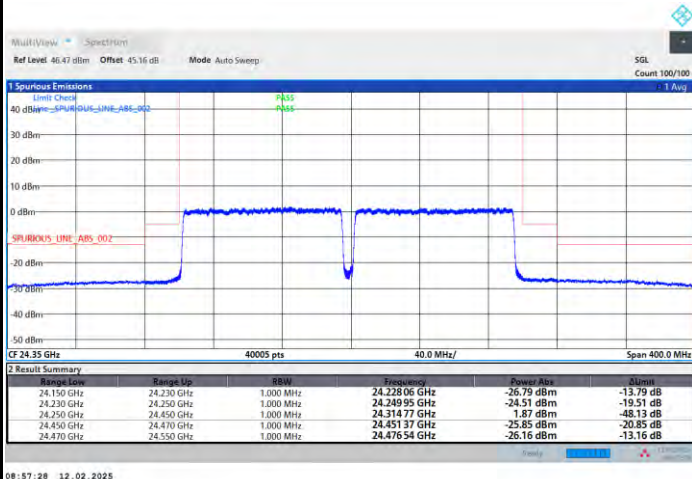
12:40:07 12.02.2025



DFT-s-OFDM

NR Band n258A/ 200MHz / QPSK

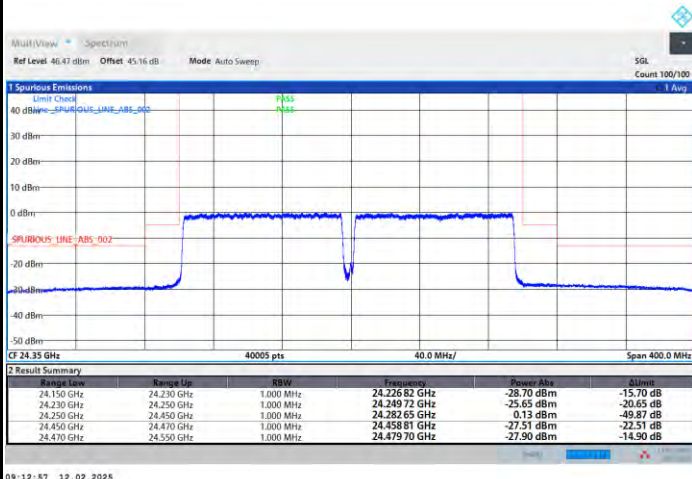
Middle Band Edge / Full RB



intentionally blank

NR Band n258A/ 200MHz / 16QAM

Middle Band Edge / Full RB



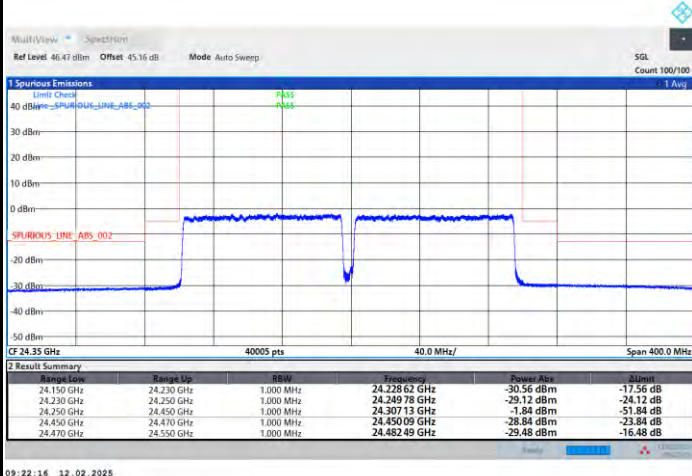
intentionally blank



DFT-s-OFDM

NR Band n258A/ 200MHz / 64QAM

Middle Band Edge / Full RB



intentionally blank



CP-OFDM

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB

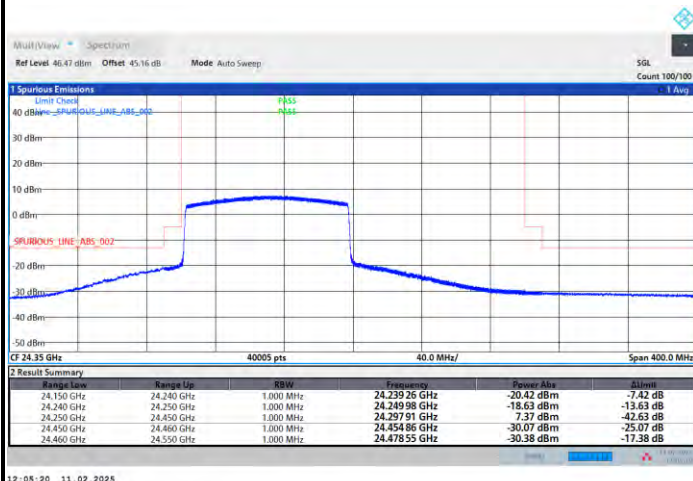


Highest Band Edge / Full RB

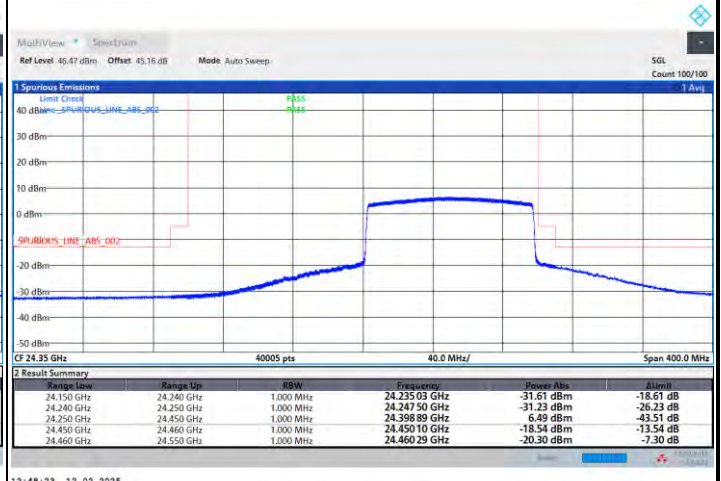


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

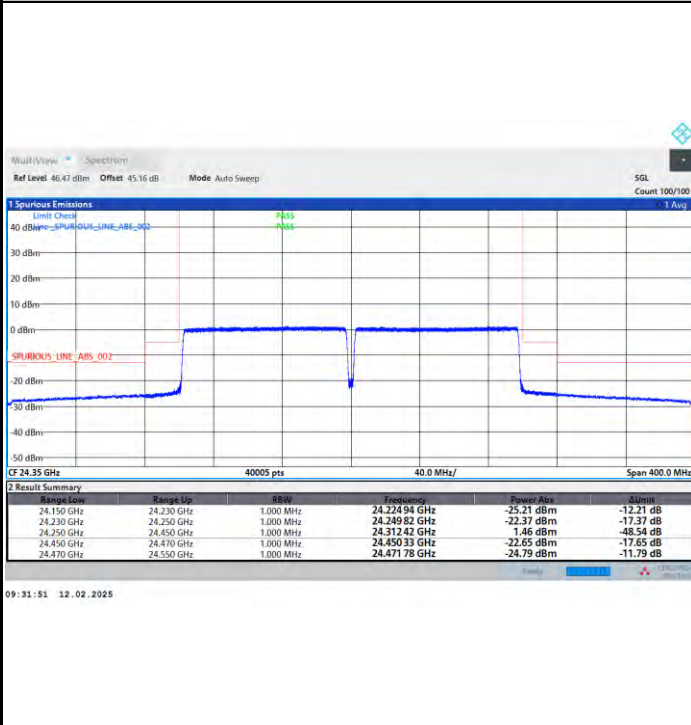




CP-OFDM

NR Band n258A/ 200MHz / QPSK

Middle Band Edge / Full RB



intentionally blank

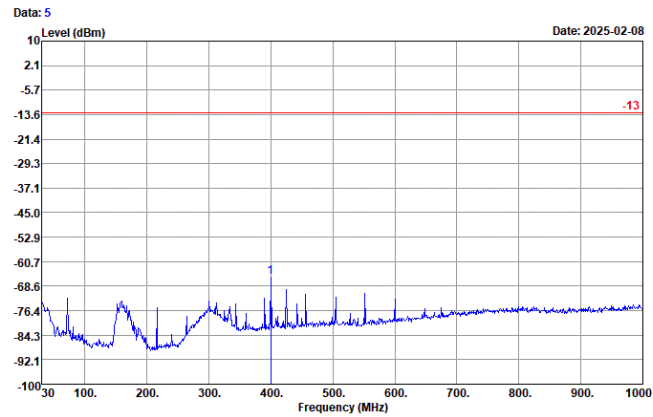
Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.

NR Band n258A (30MHz-1GHz)

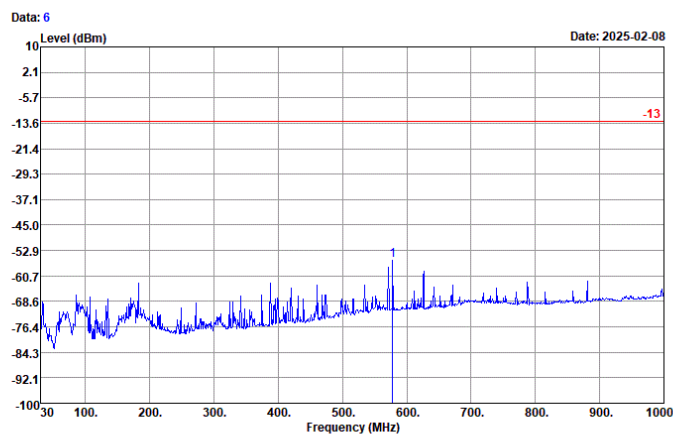
Horizontal



Site : 03CH23-HY
Condition : -13 ERP_20241229 HORIZONTAL
Projet : 4N0919
: n258a

	Freq	Level	Over	Limit
	MHz	dBm	Limit	Line
	MHz	dBm	dB	dBm
1	399.57	-65.73	-52.73	-13.00

Vertical



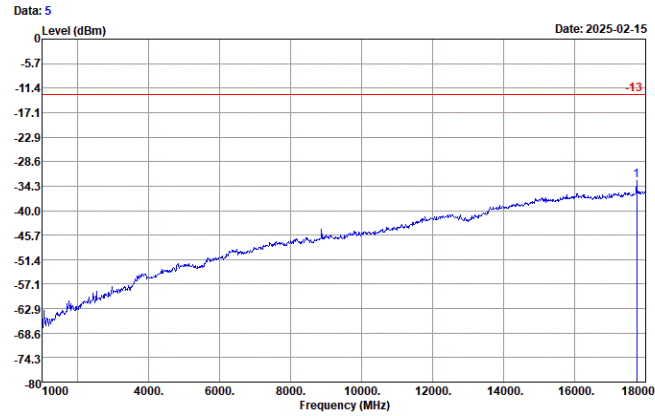
Site : 03CH23-HY
Condition : -13 ERP_20241229 VERTICAL
Projet : 4N0919
: n258a

	Freq	Level	Over	Limit
	MHz	dBm	Limit	Line
	MHz	dBm	dB	dBm
1	578.05	-55.77	-42.77	-13.00



NR Band n258A (1GHz-18GHz)

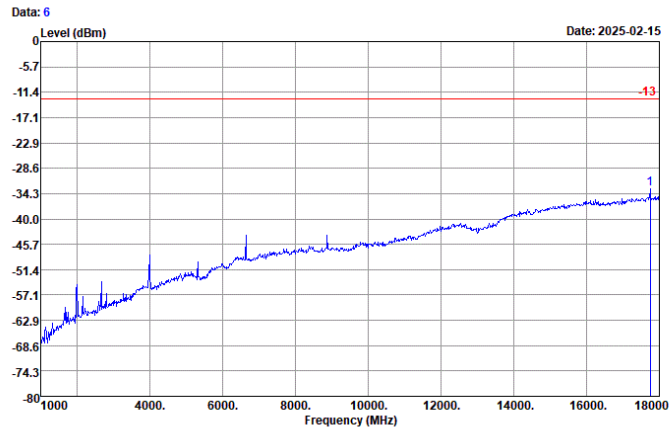
Horizontal



Site : 03CH23-HY
Condition : -13 EIRP_20241229 HORIZONTAL
Projet : 4N0920
: n258a

Freq	Level	Over	Limit
MHz	dBm	Limit	Line
1	17745.00	-33.04	-20.04 -13.00

Vertical

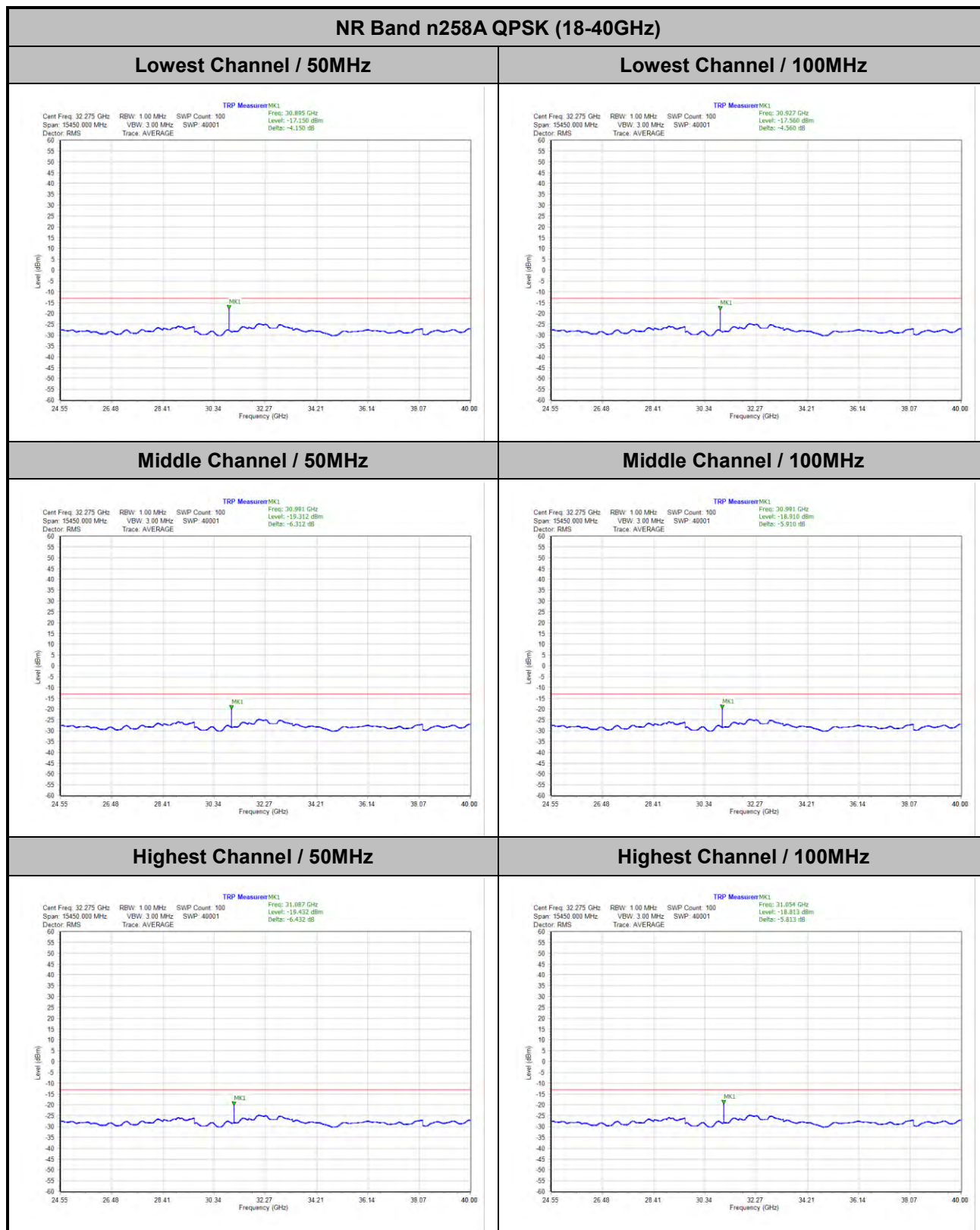


Site : 03CH23-HY
Condition : -13 EIRP_20241229 VERTICAL
Projet : 4N0920
: n258a

Freq	Level	Over	Limit
MHz	dBm	Limit	Line
1	17745.00	-33.18	-20.18 -13.00



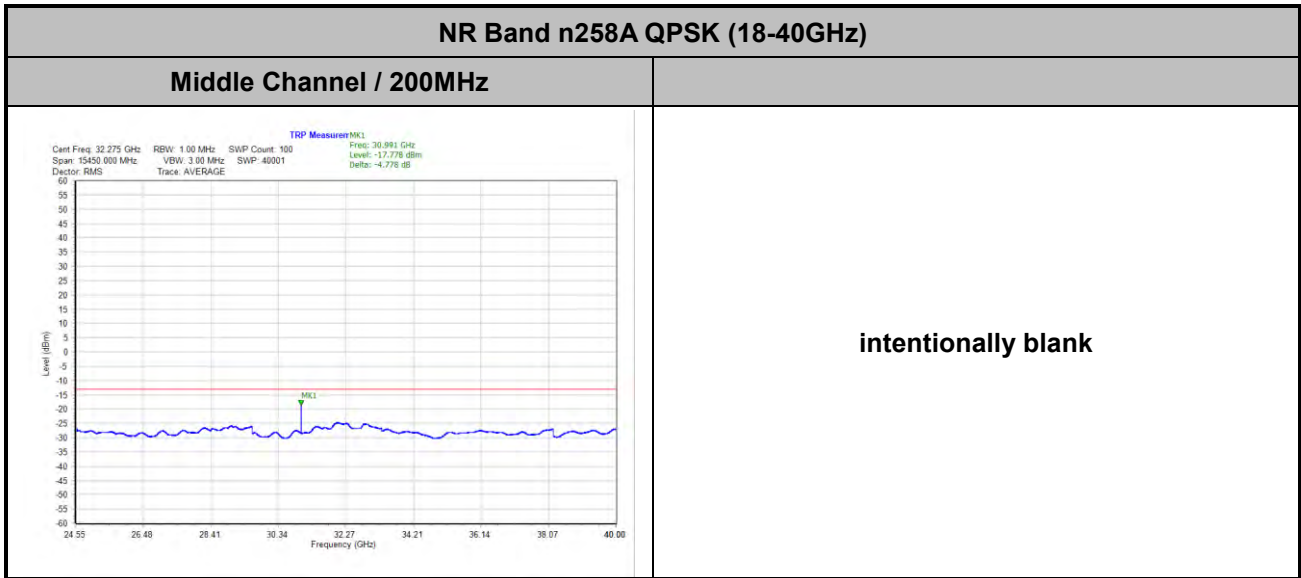
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM

Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM



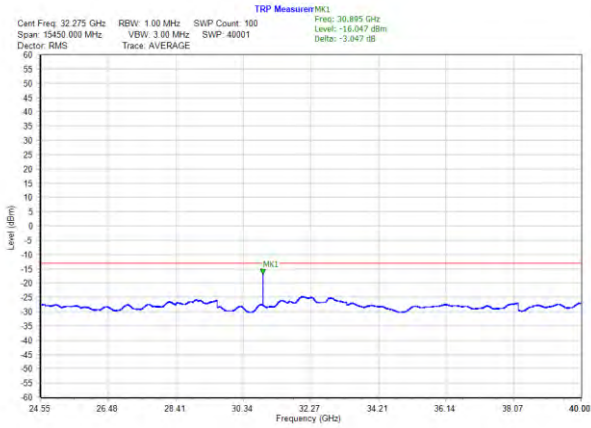
Remark: In band and out of band frequencies are omitted.



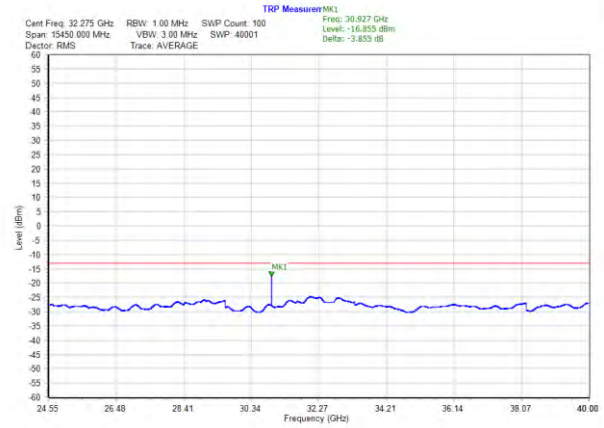
CP-OFDM

NR Band n258A QPSK (18-40GHz)

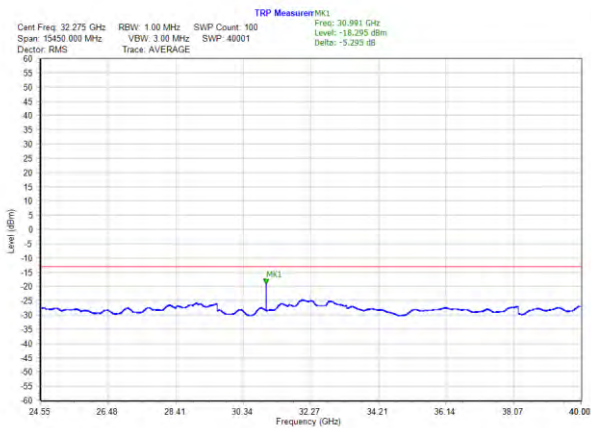
Lowest Channel / 50MHz



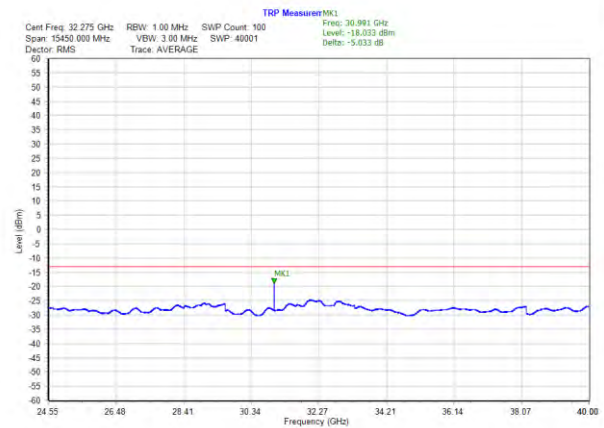
Lowest Channel / 100MHz



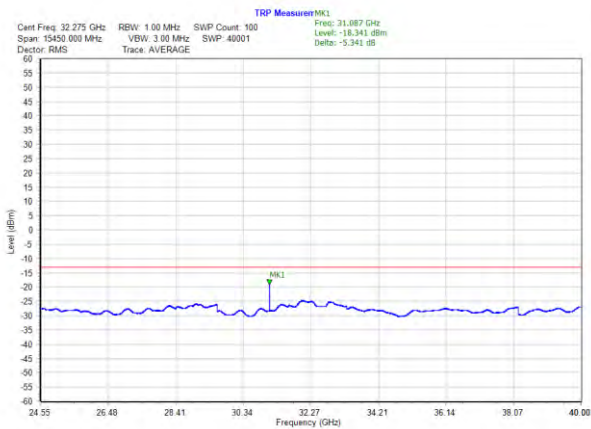
Middle Channel / 50MHz



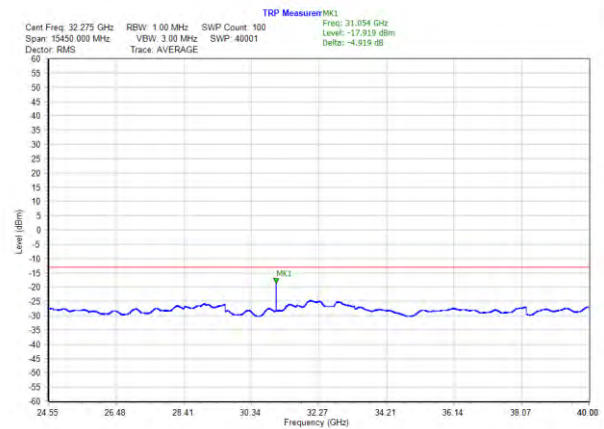
Middle Channel / 100MHz



Highest Channel / 50MHz



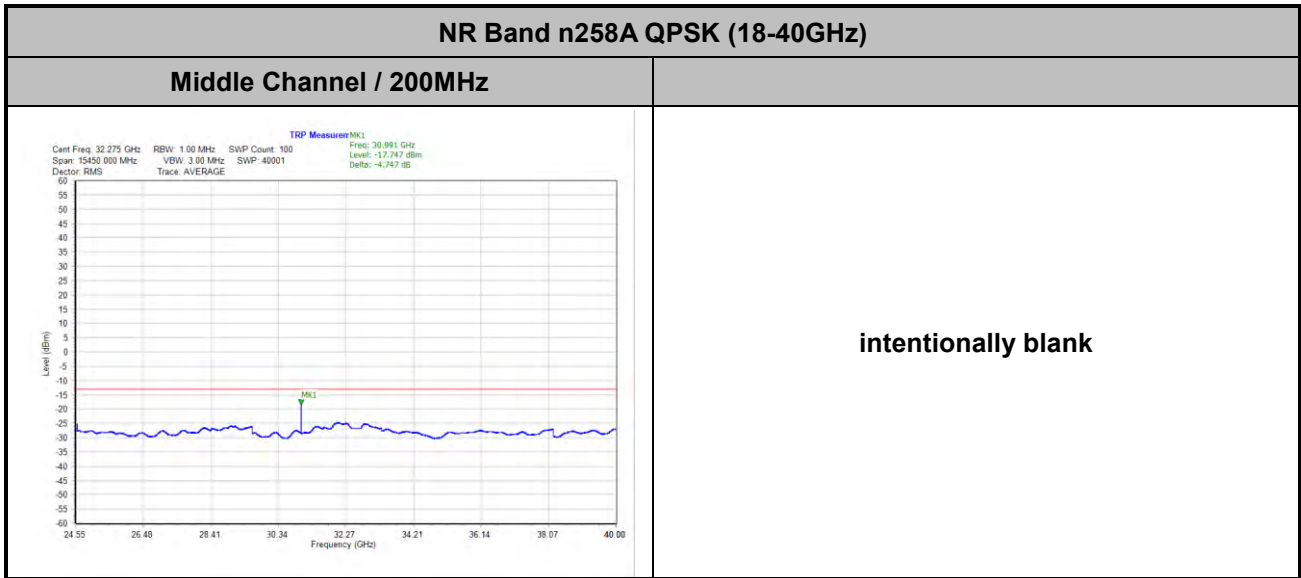
Highest Channel / 100MHz



Remark: In band and out of band frequencies are omitted.



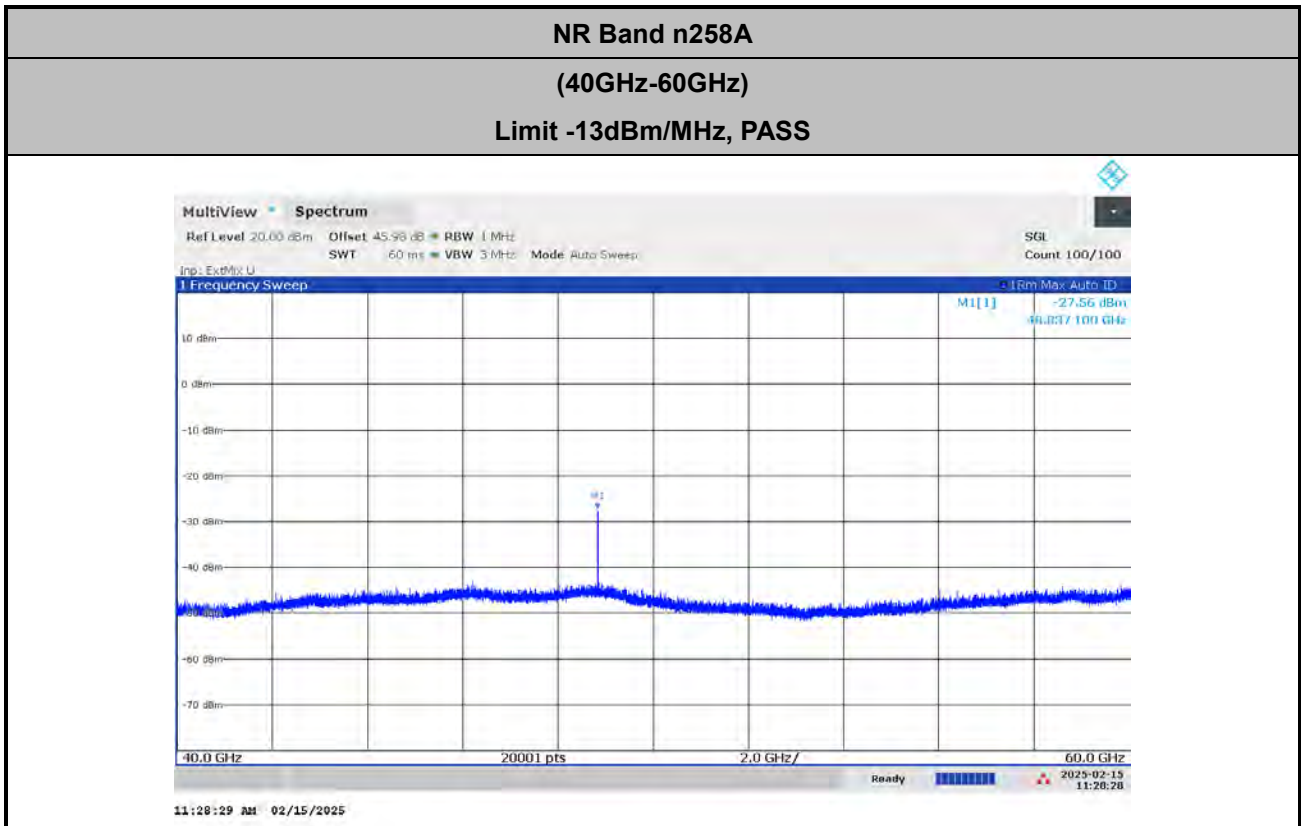
CP-OFDM



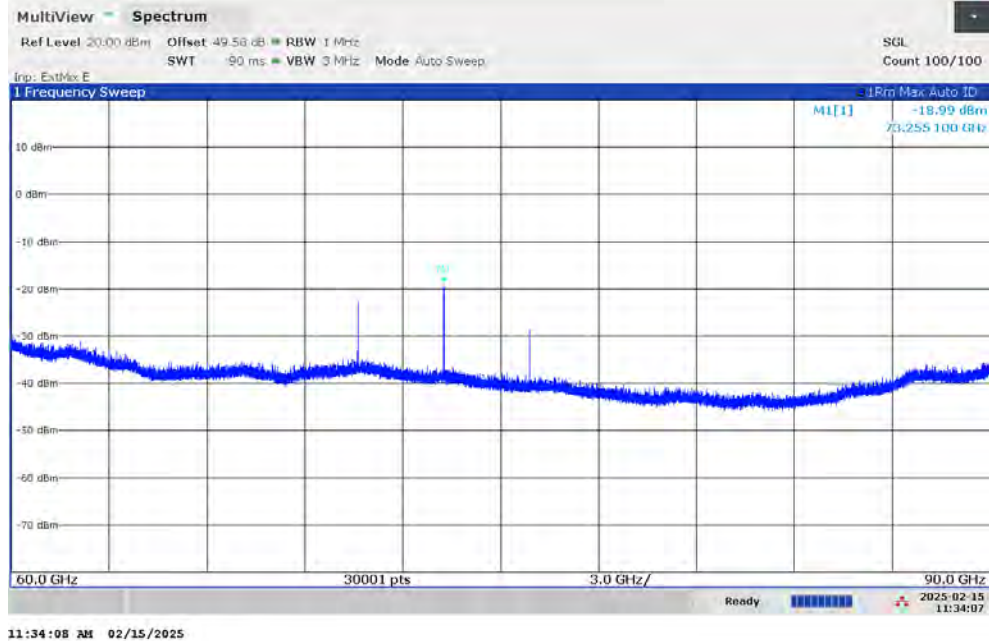
Remark: In band and out of band frequencies are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.

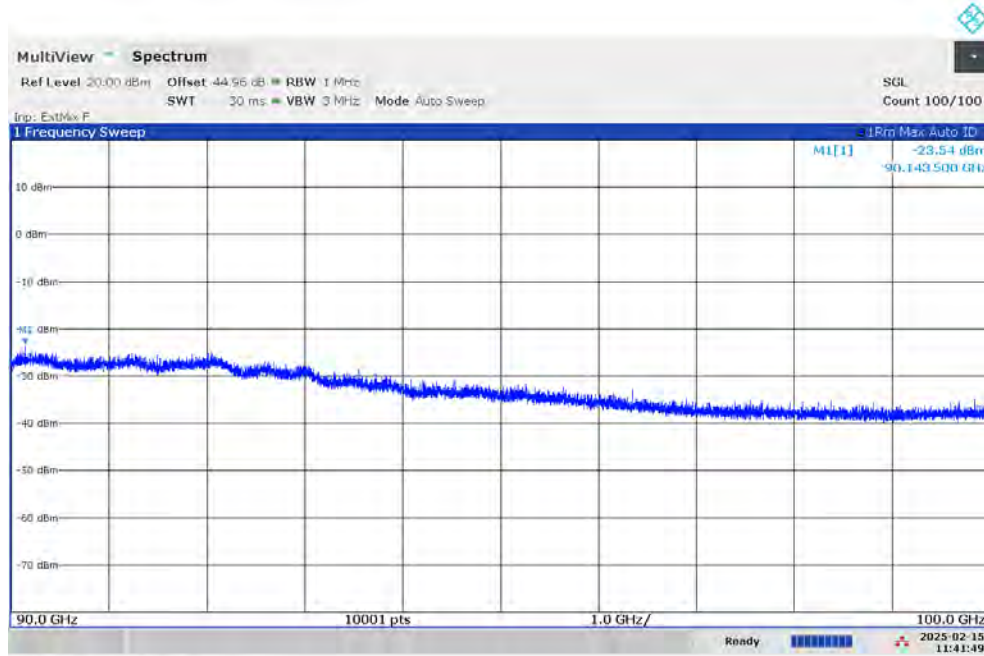


$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.6 + 1.18 + 107 + 20\log(1) - 104.8 = 45.98(\text{dB})\end{aligned}$$

NR Band n258A
(60GHz-90GHz)
Limit -13dBm/MHz, PASS


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 46.2 + 1.18 + 107 + 20\log(1) - 104.8 = 49.58 \text{ (dB)}$$

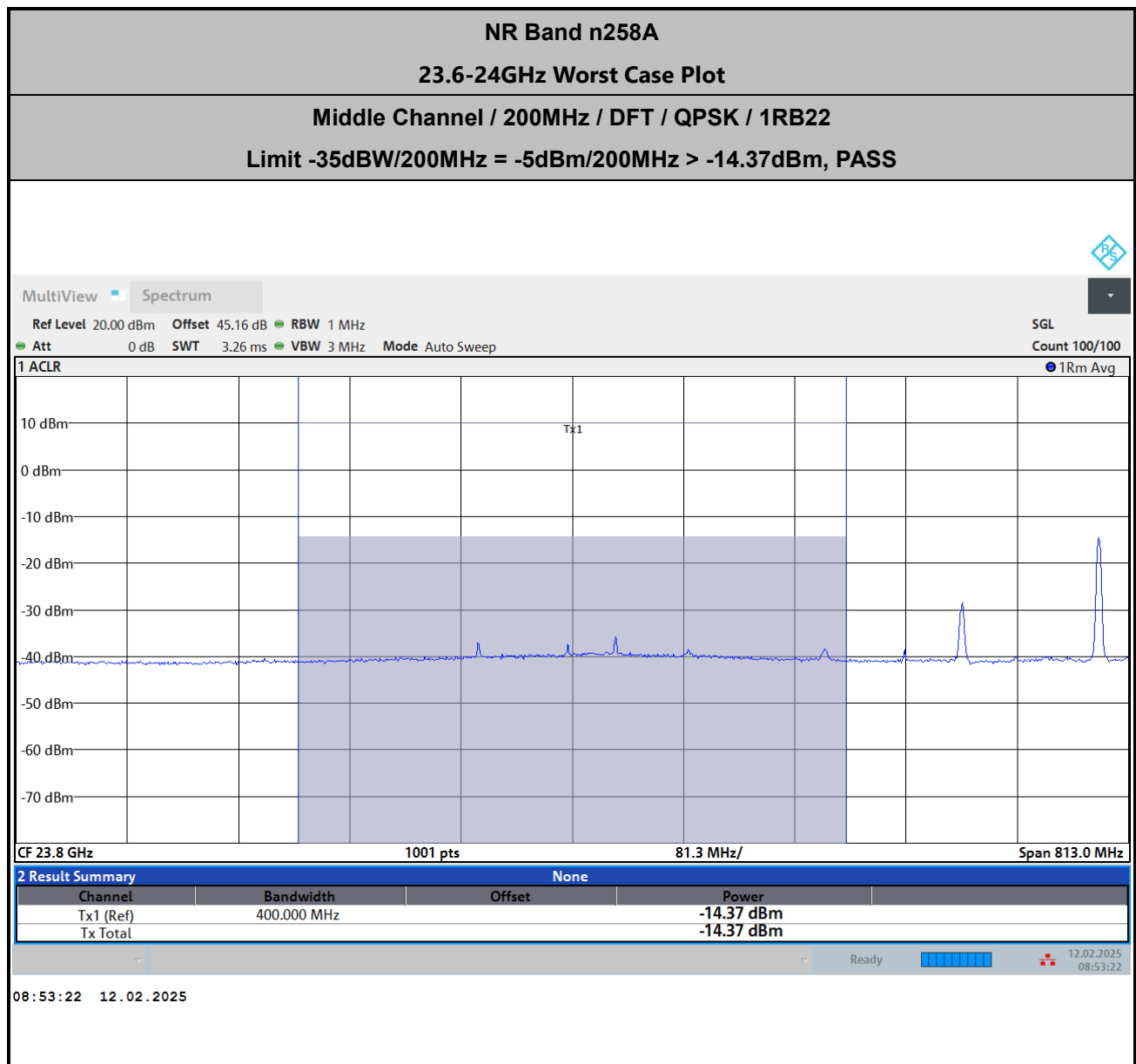
NR Band n258A
(90GHz-100GHz)
Limit -13dBm/MHz, PASS


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.6 + 1.18 + 107 + 20\log(0.5) - 104.8 = 44.96 \text{ (dB)} \end{aligned}$$



Additional requirement for 24GHz bands: Limits of 47 CFR 30.203(d)(2) is applied.

For mobile equipment brought into use after September 1, 2027, the maximum conducted output power or the total radiated power of emissions in any 200 MHz of the 23.6-24.0 GHz band shall not exceed -39 dBW (for base stations) or -35 dBW (for mobile stations).



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 39.5 + 3.46 + 107 + 20\log(1) - 104.8 = 45.16(\text{dB}) \end{aligned}$$

Note: Channel power integration method is used to measure total power over 400MHz from 23.6GHz to 24GHz in order to show compliance against limit within any 200MHz interval.

Frequency Stability

Test Conditions		NR Band n258A / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.34995804	97.902	4.021	Pass
40	Normal Voltage	24.34997303	82.917	3.405	
30	Normal Voltage	24.35001598	39.960	1.641	
20(Ref.)	Normal Voltage	24.35005594	0.000	0.000	
10	Normal Voltage	24.35005994	-3.996	0.164	
0	Normal Voltage	24.3501029	-46.953	1.928	
-10	Normal Voltage	24.35012088	-64.935	2.667	
-20	Normal Voltage	24.35016583	-109.890	4.513	
-30	Normal Voltage	24.35020579	-149.850	6.154	
20	Maximum Voltage	24.35002997	25.974	1.067	
20	Normal Voltage	24.35004396	11.988	0.492	
20	Battery End Point	24.35003996	15.984	0.656	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n258B

Occupied Bandwidth

Mode	DFT-s-OFDM NR Band n258B : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.04	46.01	46.19	90.97	90.65	91.18	191.71	191.36	191.82
Middle CH	46.10	46.01	46.12	91.26	91.14	91.20	190.88	190.73	191.10
Highest CH	45.83	45.87	45.96	90.82	90.93	91.03	191.28	191.19	191.48

Mode	DFT-s-OFDM NR Band n258B : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	290.52	290.35	290.11	389.69	388.90	388.66
Middle CH	289.67	289.98	289.69	389.94	389.47	389.15
Highest CH	290.52	290.86	290.93	389.02	389.91	389.24

Mode	CP-OFDM NR Band n258B : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.11	93.67	194.95
Middle CH	46.06	93.94	193.71
Highest CH	45.67	93.81	194.21

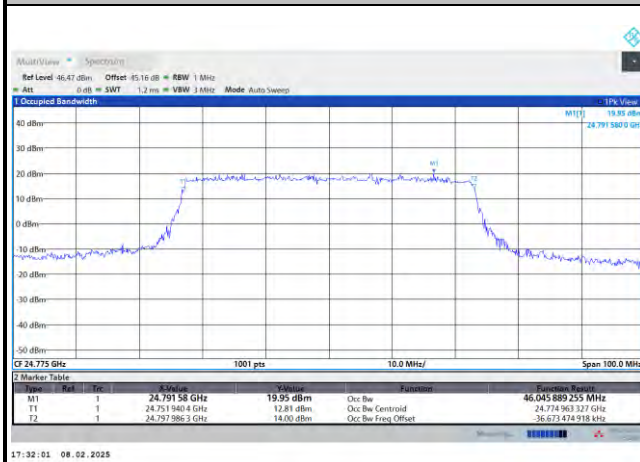
Mode	CP-OFDM NR Band n258B : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	295.13	392.73
Middle CH	294.30	394.16
Highest CH	294.63	392.33



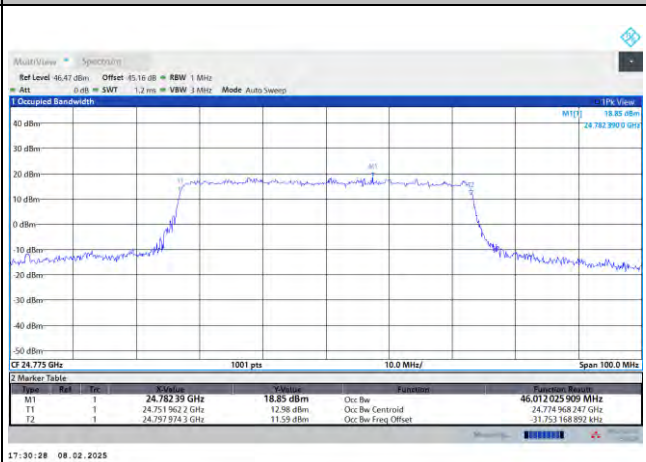
DFT-s-OFDM

NR Band n258B

Lowest Channel / 50MHz / QPSK



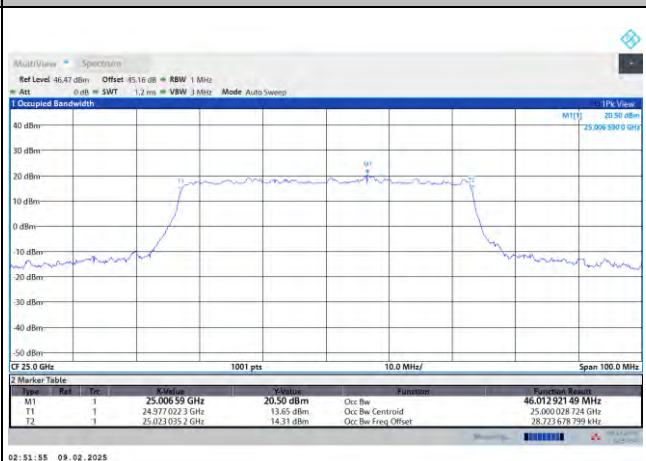
Lowest Channel / 50MHz / 16QAM



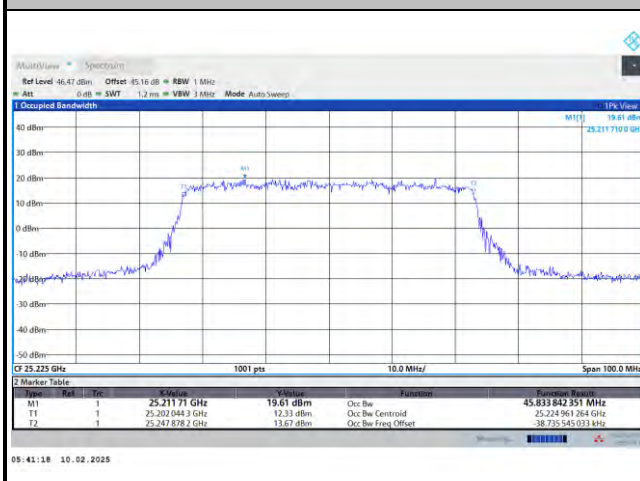
Middle Channel / 50MHz / QPSK



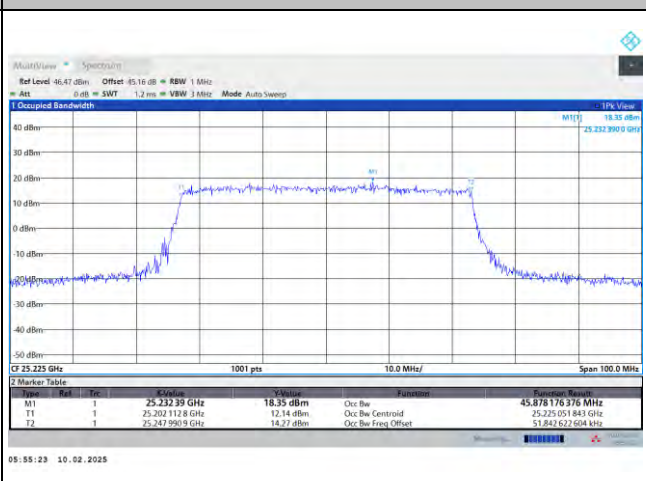
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM





DFT-s-OFDM

NR Band n258B

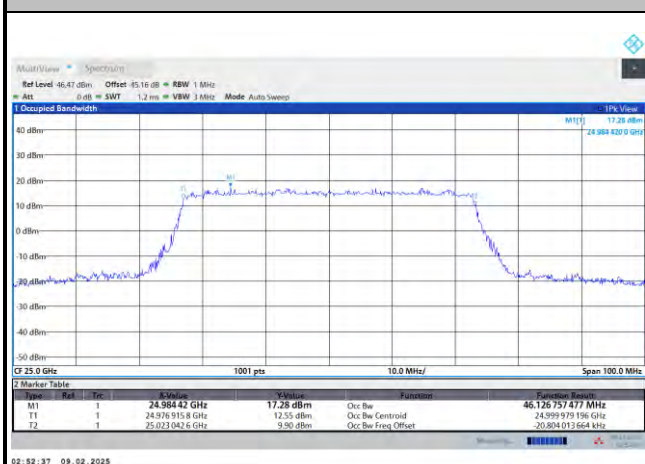
Lowest Channel / 50MHz / 64QAM



Lowest Channel / 100MHz / QPSK



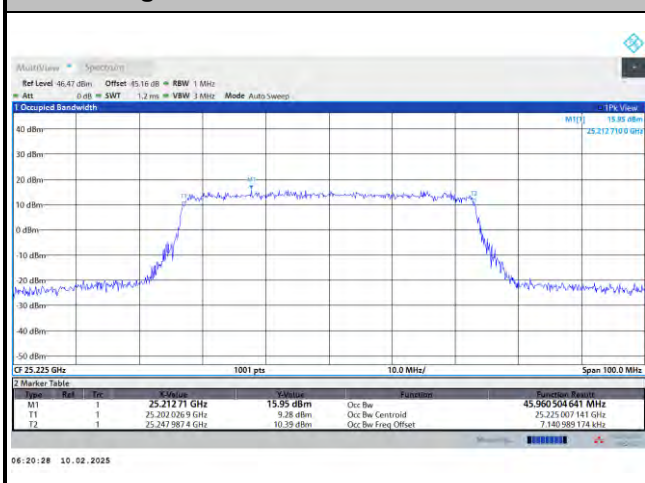
Middle Channel / 50MHz / 64QAM



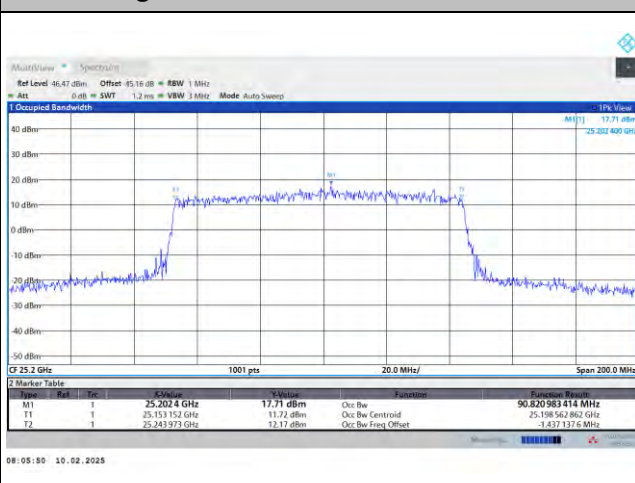
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

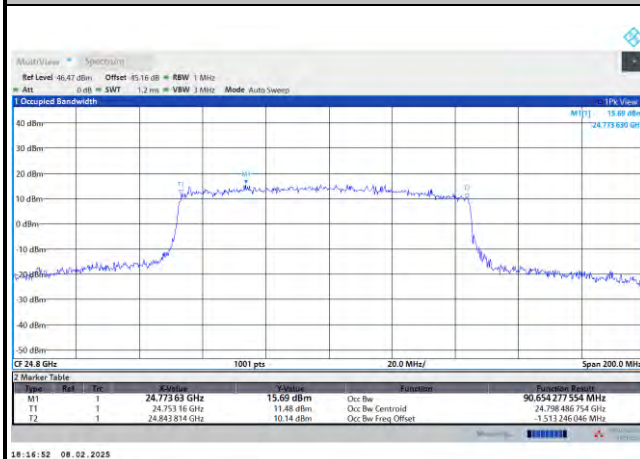




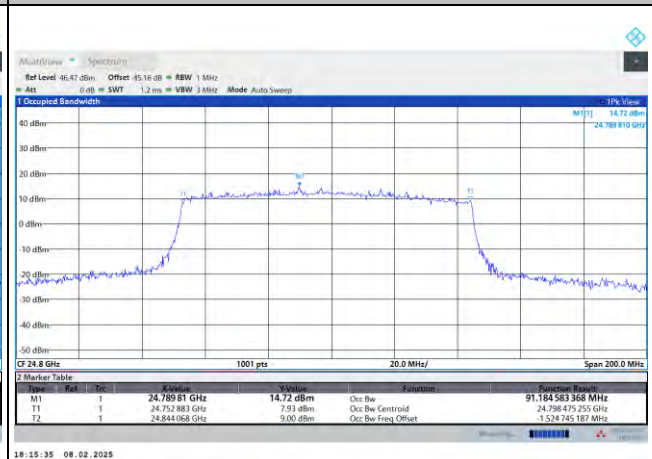
DFT-s-OFDM

NR Band n258B

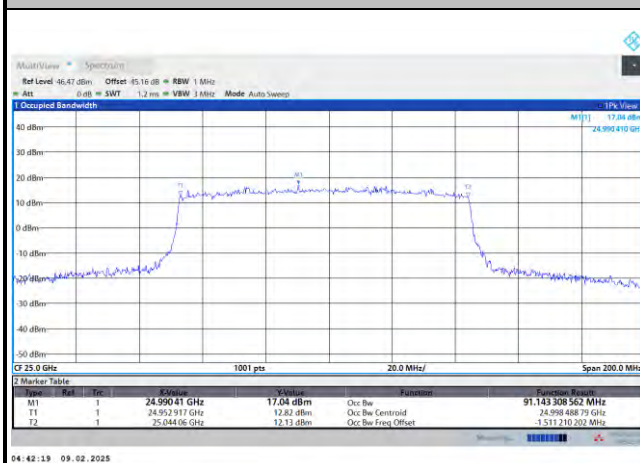
Lowest Channel / 100MHz / 16QAM



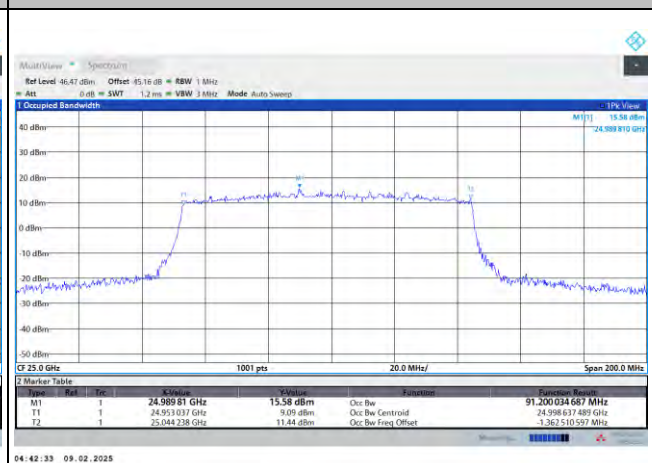
Lowest Channel / 100MHz / 64QAM



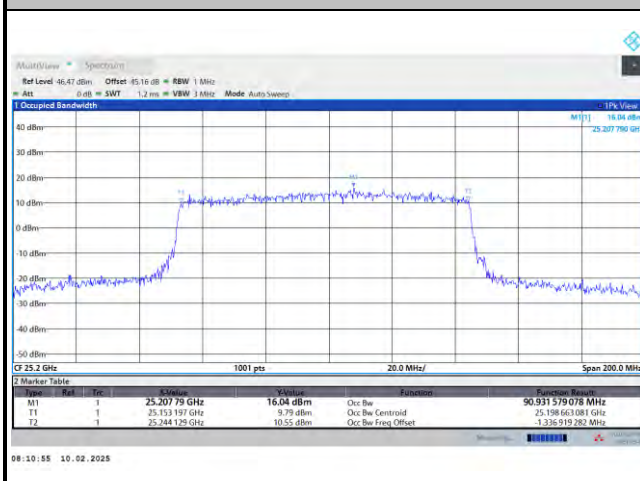
Middle Channel / 100MHz / 16QAM



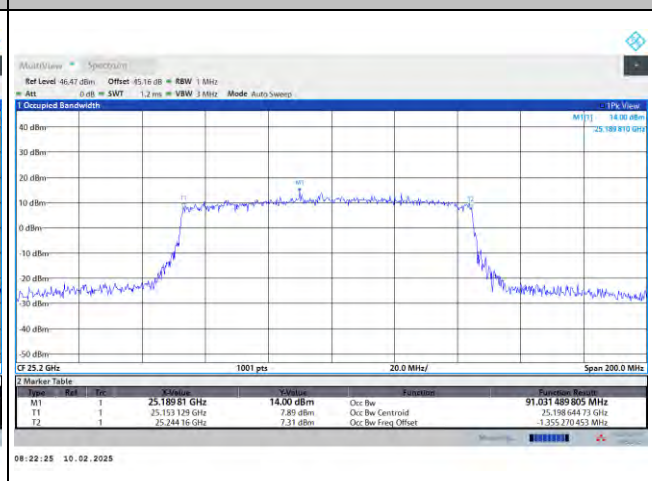
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM





DFT-s-OFDM

NR Band n258B

Lowest Channel / 200MHz / QPSK



Lowest Channel / 200MHz / 16QAM



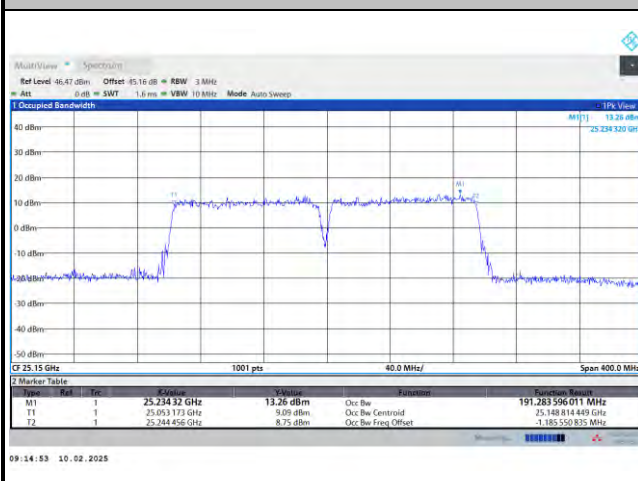
Middle Channel / 200MHz / QPSK



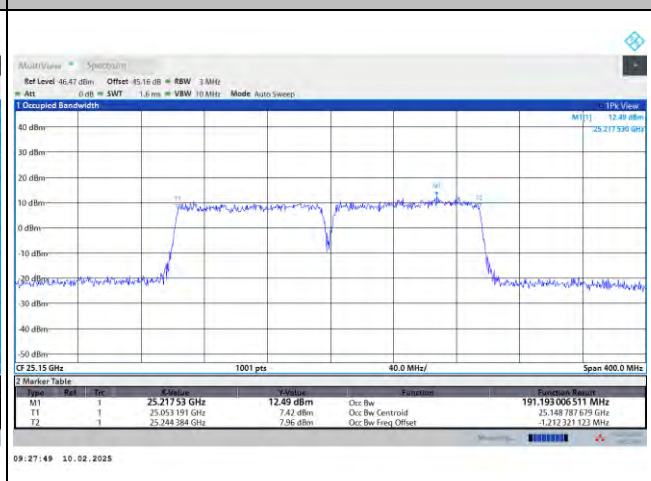
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

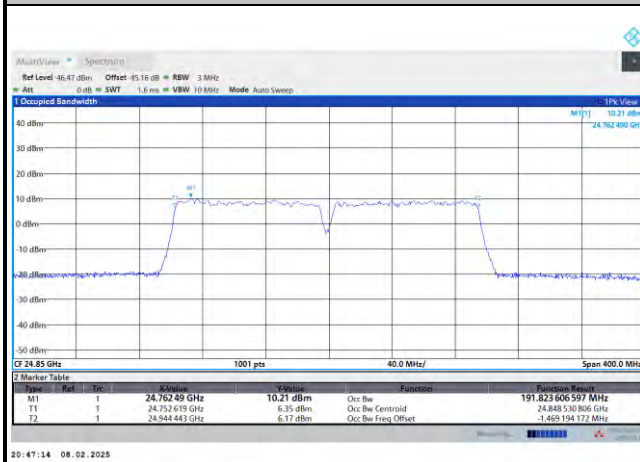




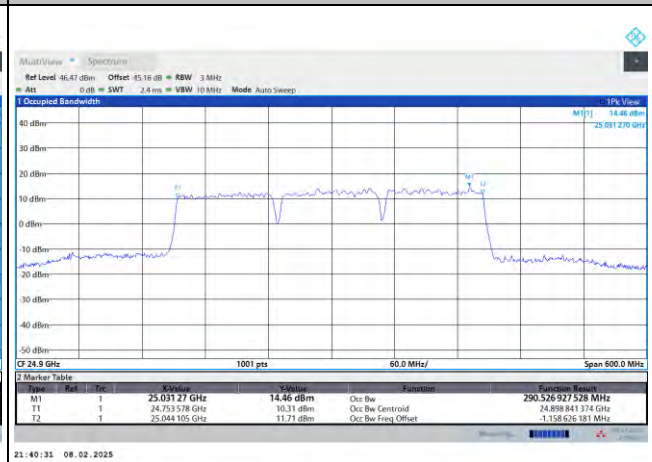
DFT-s-OFDM

NR Band n258B

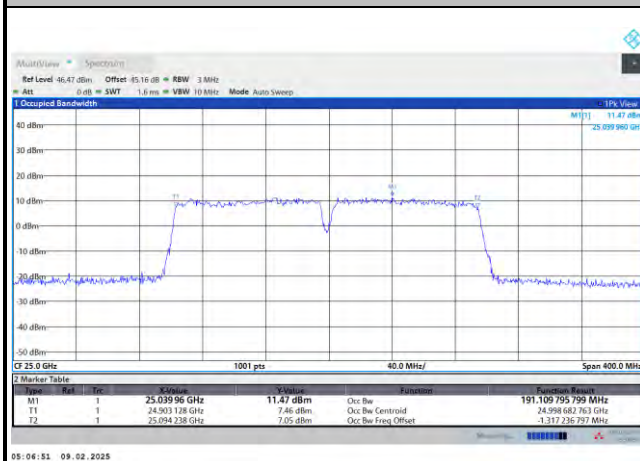
Lowest Channel / 200MHz / 64QAM



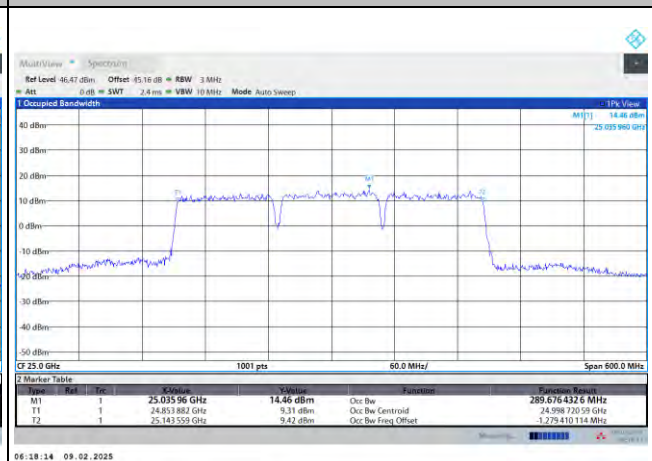
Lowest Channel / 300MHz / QPSK



Middle Channel / 200MHz / 64QAM



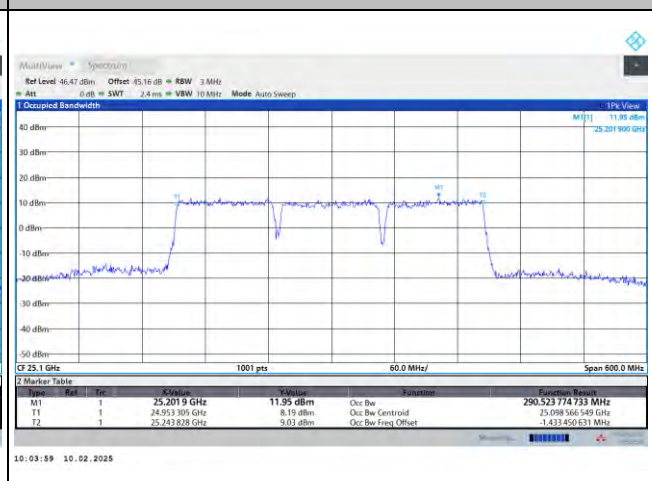
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

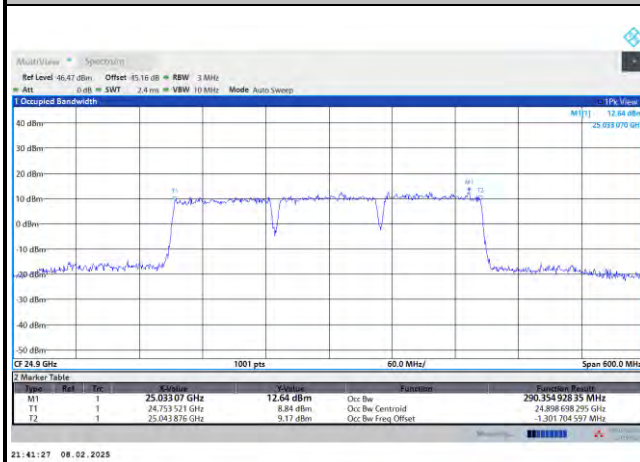




DFT-s-OFDM

NR Band n258B

Lowest Channel / 300MHz / 16QAM



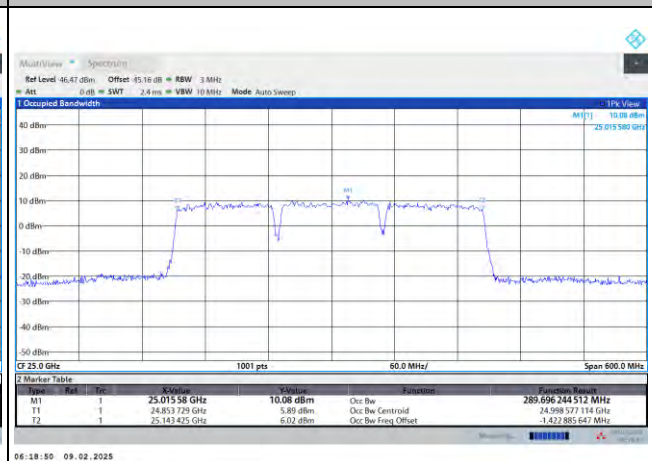
Lowest Channel / 300MHz / 64QAM



Middle Channel / 300MHz / 16QAM



Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM





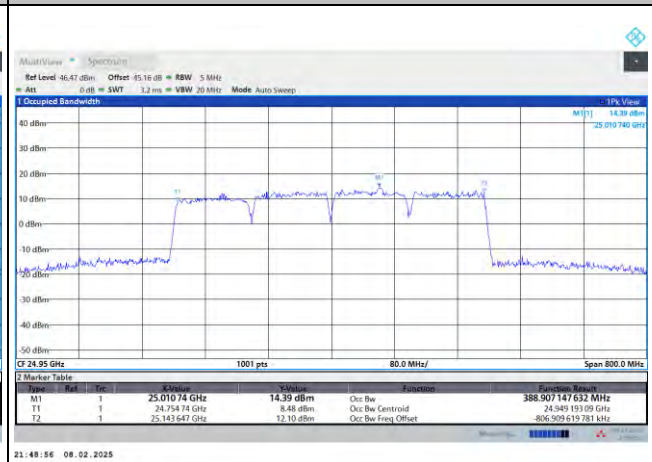
DFT-s-OFDM

NR Band n258B

Lowest Channel / 400MHz / QPSK



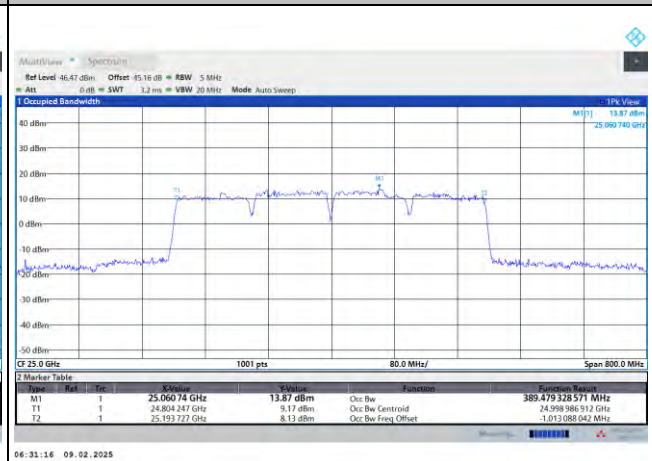
Lowest Channel / 400MHz / 16QAM



Middle Channel / 400MHz / QPSK



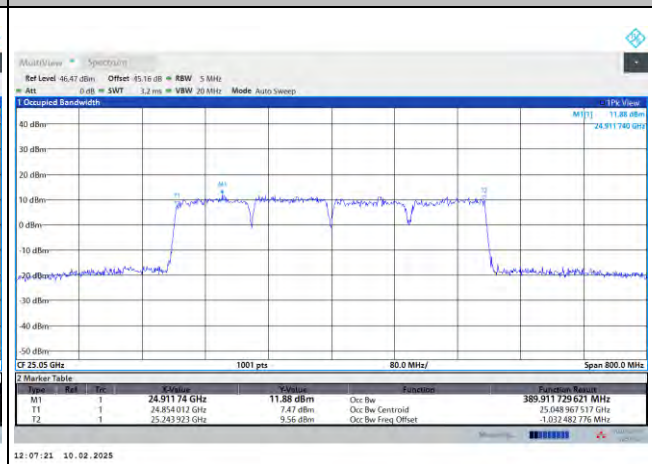
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM





DFT-s-OFDM

NR Band n258B

Lowest Channel / 400MHz / 64QAM



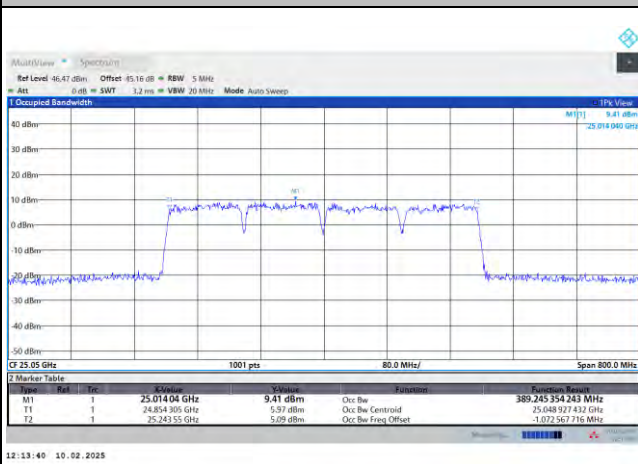
intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



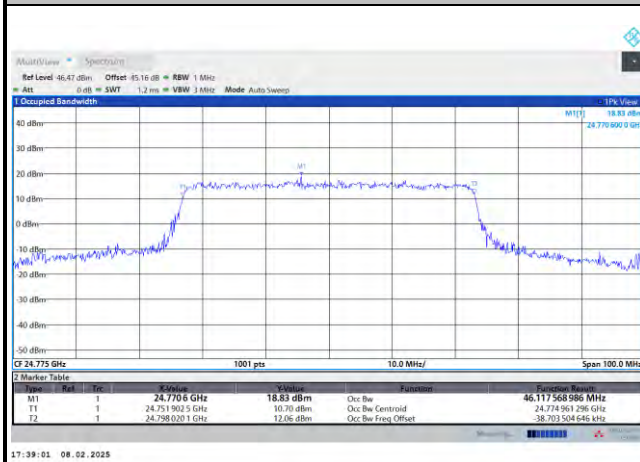
intentionally blank



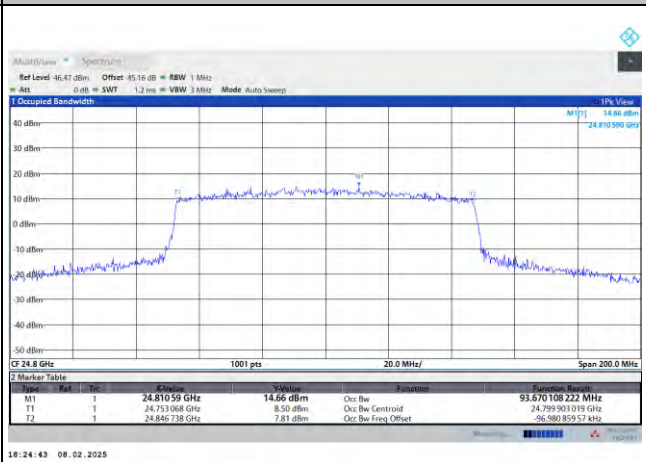
CP-OFDM

NR Band n258B

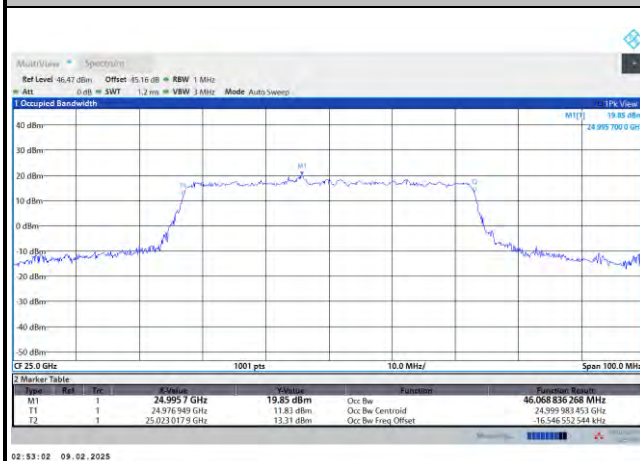
Lowest Channel / 50MHz / QPSK



Lowest Channel / 100MHz / QPSK



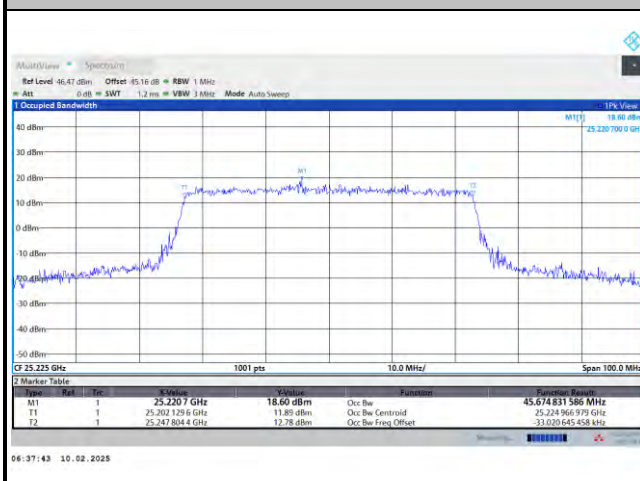
Middle Channel / 50MHz / QPSK



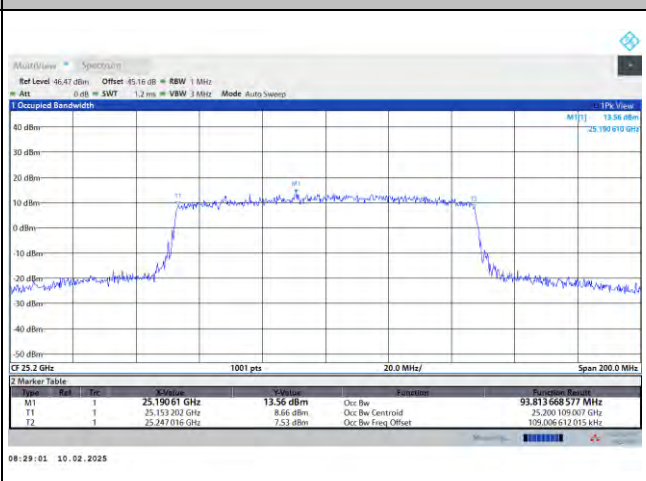
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

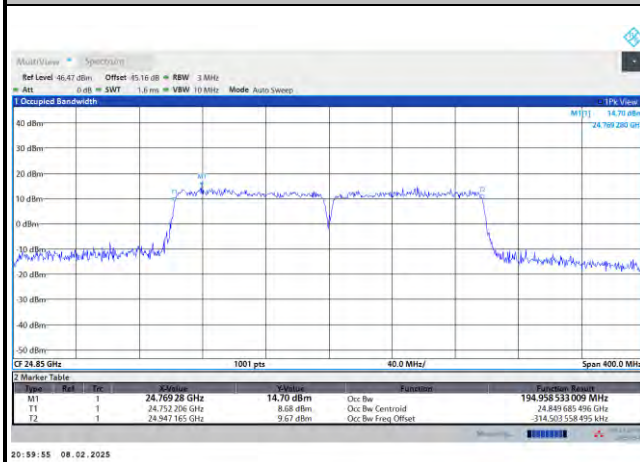




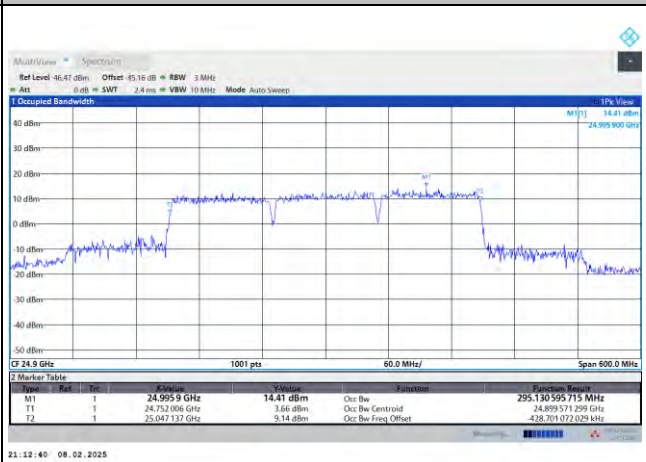
CP-OFDM

NR Band n258B

Lowest Channel / 200MHz / QPSK



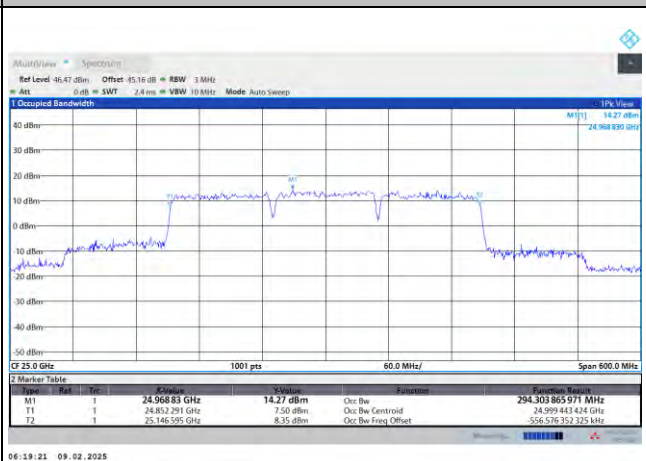
Lowest Channel / 300MHz / QPSK



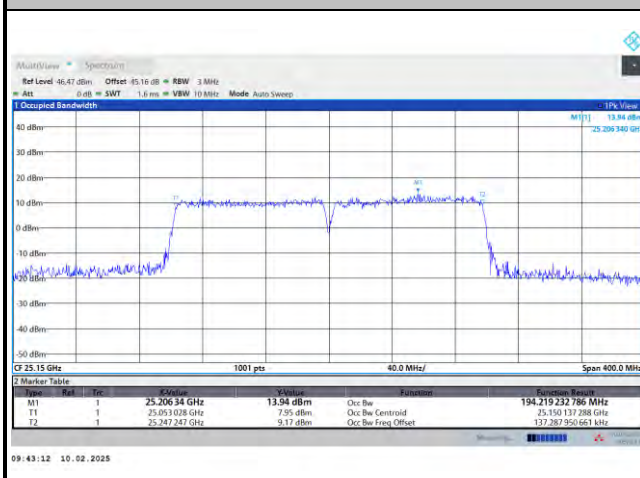
Middle Channel / 200MHz / QPSK



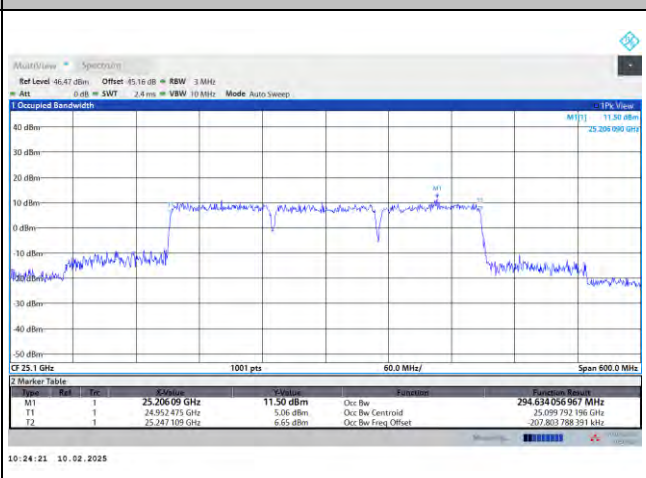
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / QPSK



Highest Channel / 300MHz / QPSK





CP-OFDM

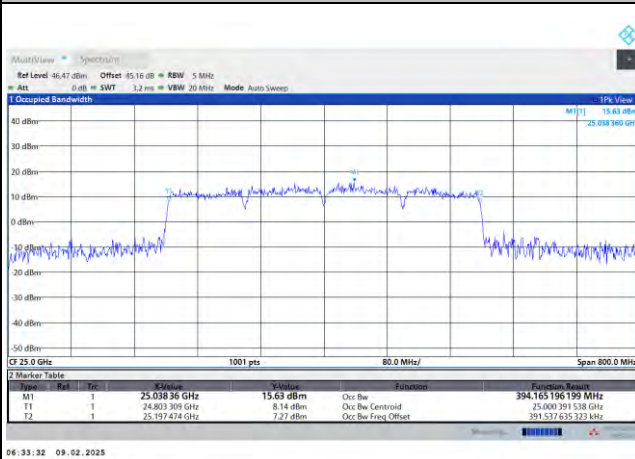
NR Band n258B

Lowest Channel / 400MHz / QPSK



intentionally blank

Middle Channel / 400MHz / QPSK



intentionally blank

Highest Channel / 400MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM NR Band n258B : BE (dBm) 1 RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-5.44	-6.50	-8.06	-7.21	-10.05	-11.99	-15.10	-16.40	-19.52
	>10%OB	≤ -13	-29.07	-29.62	-29.94	-30.35	-30.48	-30.62	-13.23	-16.94	-20.68
High CH	0~10%OB	≤ -5	-5.29	-6.51	-8.97	-6.87	-11.10	-13.90	-17.14	-18.87	-21.24
	>10%OB	≤ -13	-29.13	-29.80	-30.39	-29.10	-29.93	-30.15	-19.90	-21.47	-23.25
Result			Compliance								

Mode			DFT-s-OFDM NR Band n258B : BE (dBm) 1 RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-30.499	-18.46	-22.38	-14.91	-19.13	-22.48
	>10%OB	≤ -13	-21.607	-14.68	-18.05	-13.29	-16.47	-20.42
High CH	0~10%OB	≤ -5	-18.35	-20.11	-23.04	-19.44	-20.92	-23.90
	>10%OB	≤ -13	-17.04	-19.96	-23.23	-18.18	-21.29	-24.17
Result			Compliance					

Mode			CP-OFDM NR Band n258B : BE (dBm) 1 RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-6.70	-9.08	-27.648
	>10%OB	≤ -13	-30.01	-30.66	-22.611
High CH	0~10%OB	≤ -5	-7.31	-11.15	-16.97
	>10%OB	≤ -13	-29.84	-30.38	-17.62
Result			Compliance		

Mode			CP-OFDM NR Band n258B : BE (dBm) 1 RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-30.416	-22.908
	>10%OB	≤ -13	-19.037	-19.454
High CH	0~10%OB	≤ -5	-18.74	-15.06
	>10%OB	≤ -13	-13.85	-15.97
Result			Compliance	

Mode			DFT-s-OFDM NR Band n258B : BE (dBm) Full RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-14.04	-16.61	-17.95	-17.65	-18.95	-20.59	-23.67	-25.33	-28.72
	>10%OB	≤ -13	-17.53	-19.65	-23.42	-20.10	-22.55	-25.17	-26.71	-28.25	-30.15
High CH	0~10%OB	≤ -5	-15.71	-18.55	-19.34	-23.07	-25.38	-27.18	-29.13	-29.62	-30.39
	>10%OB	≤ -13	-22.74	-24.77	-27.30	-25.78	-27.21	-28.94	-29.81	-30.29	-30.18
Result			Compliance								

Mode			DFT-s-OFDM NR Band n258B : BE (dBm) Full RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-25.48	-26.99	-28.88	-26.59	-27.94	-29.95
	>10%OB	≤ -13	-25.09	-27.96	-29.99	-26.54	-28.49	-30.06
High CH	0~10%OB	≤ -5	-28.65	-29.93	-30.37	-29.23	-30.00	-30.73
	>10%OB	≤ -13	-28.87	-30.12	-30.34	-28.73	-29.90	-30.00
Result			Compliance					

Mode			CP-OFDM NR Band n258B : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤ -5	-16.00	-19.38	-22.80
	>10%OB	≤ -13	-18.43	-20.86	-25.35
High CH	0~10%OB	≤ -5	-17.82	-22.47	-258.88
	>10%OB	≤ -13	-23.58	-26.18	-29.06
Result			Compliance		

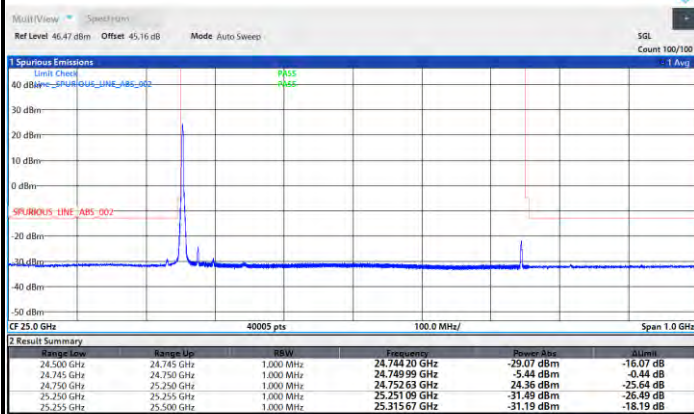
Mode			CP-OFDM NR Band n258B : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤ -5	-23.10	-25.16
	>10%OB	≤ -13	-23.50	-26.41
High CH	0~10%OB	≤ -5	-26.02	-27.33
	>10%OB	≤ -13	-27.62	-28.12
Result			Compliance	



DFT-s-OFDM

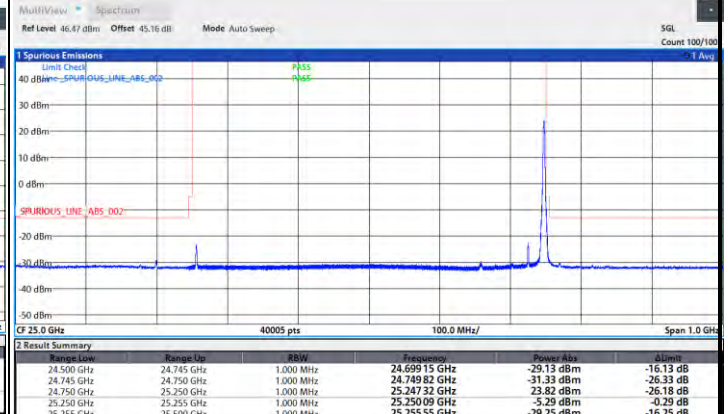
NR Band n258B / 50MHz / QPSK

Lowest Band Edge / 1 RB



17:19:34 08.02.2025

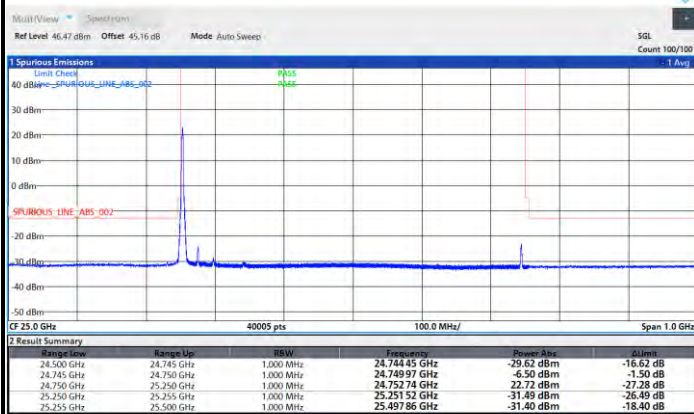
Highest Band Edge / 1 RB



05:37:41 10.02.2025

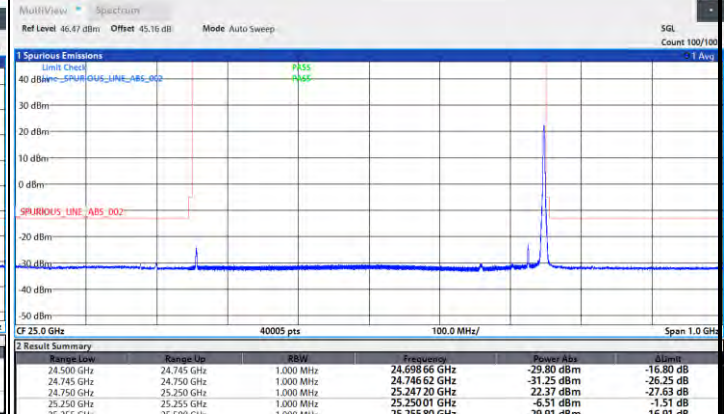
NR Band n258B / 50MHz / 16QAM

Lowest Band Edge / 1 RB



17:20:26 08.02.2025

Highest Band Edge / 1 RB



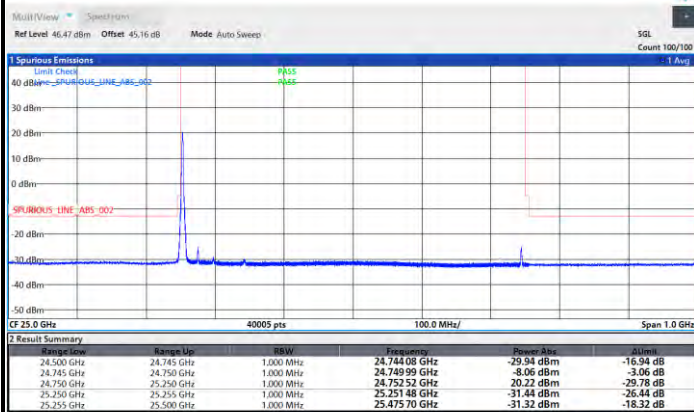
05:47:15 10.02.2025



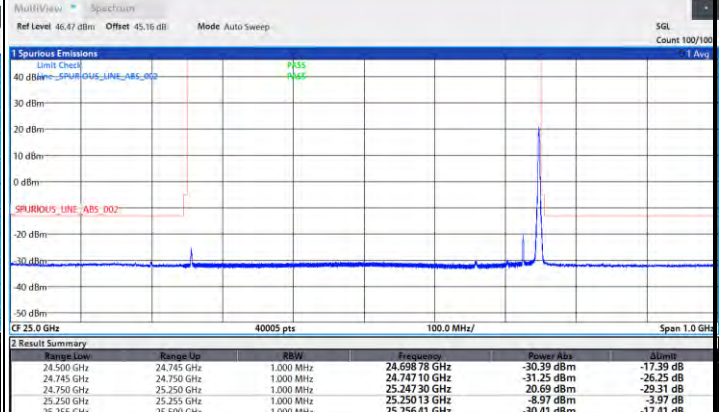
DFT-s-OFDM

NR Band n258B / 50MHz / 64QAM

Lowest Band Edge / 1 RB

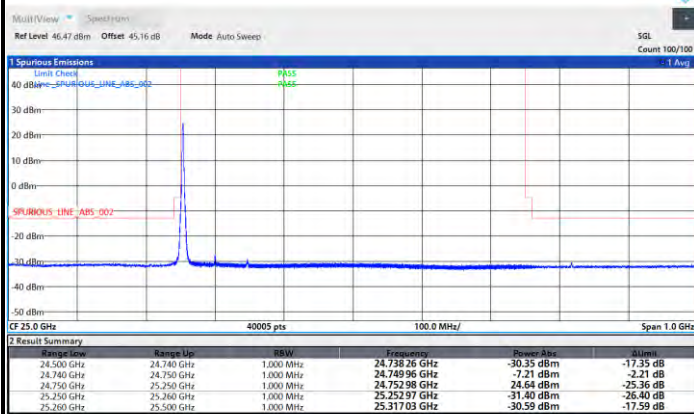


Highest Band Edge / 1 RB

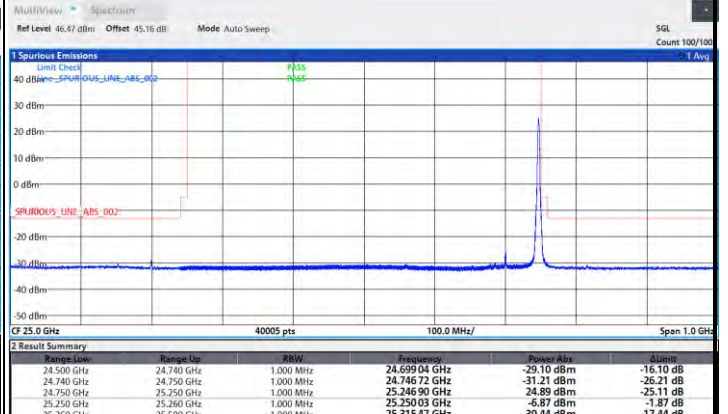


NR Band n258B / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

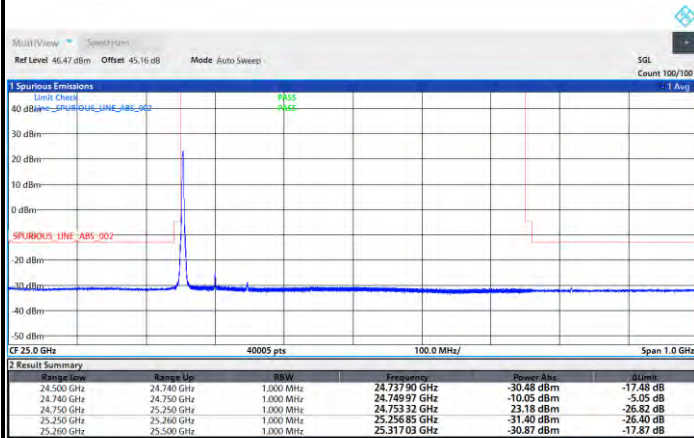




DFT-s-OFDM

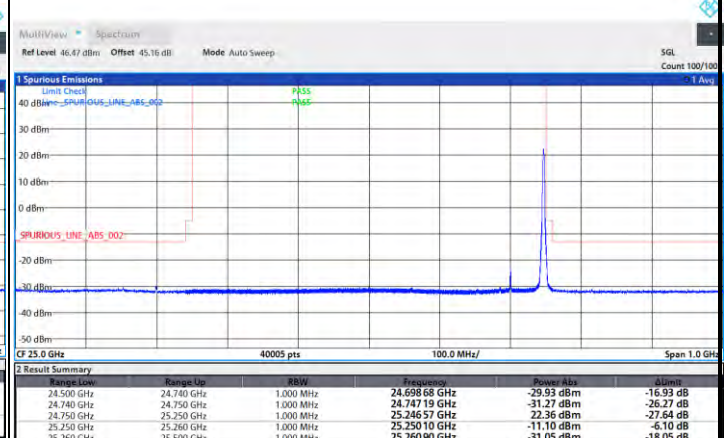
NR Band n258B / 100MHz / 16QAM

Lowest Band Edge / 1 RB



18:11:48 08.02.2025

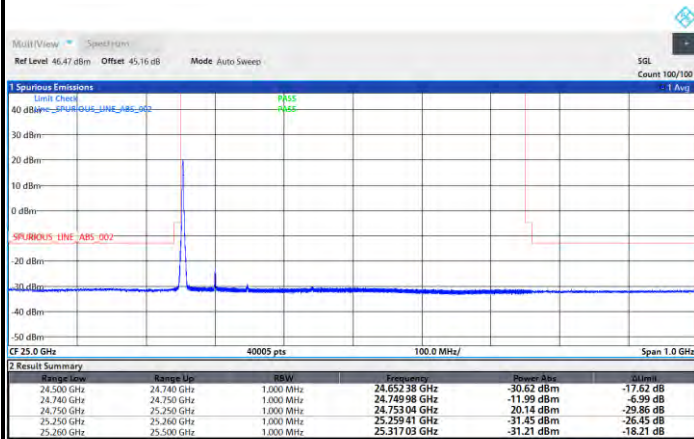
Highest Band Edge / 1 RB



08:09:53 10.02.2025

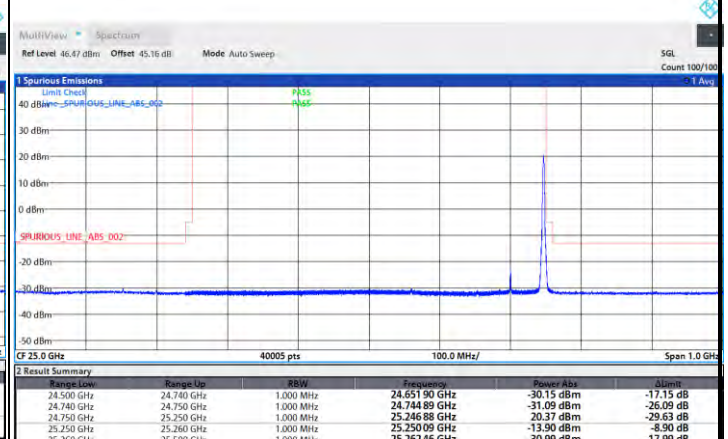
NR Band n258B / 100MHz / 64QAM

Lowest Band Edge / 1 RB



18:15:17 08.02.2025

Highest Band Edge / 1 RB



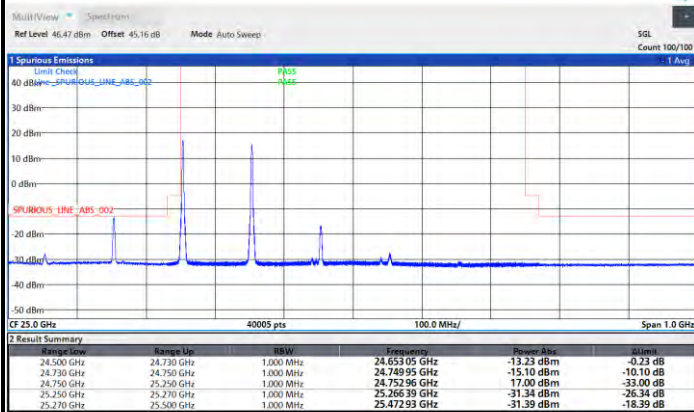
08:21:28 10.02.2025



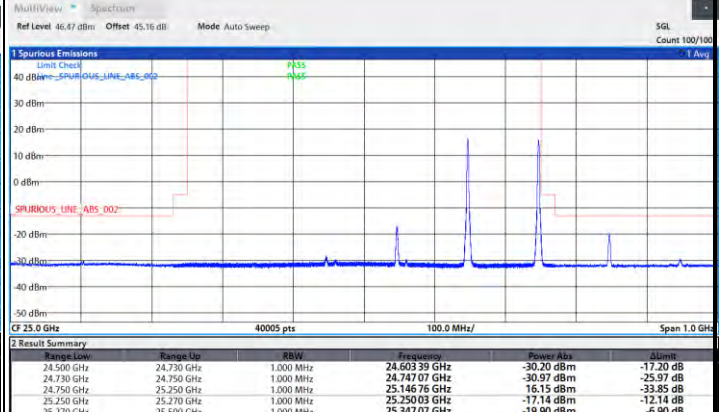
DFT-s-OFDM

NR Band n258B / 200MHz / QPSK

Lowest Band Edge / 1 RB

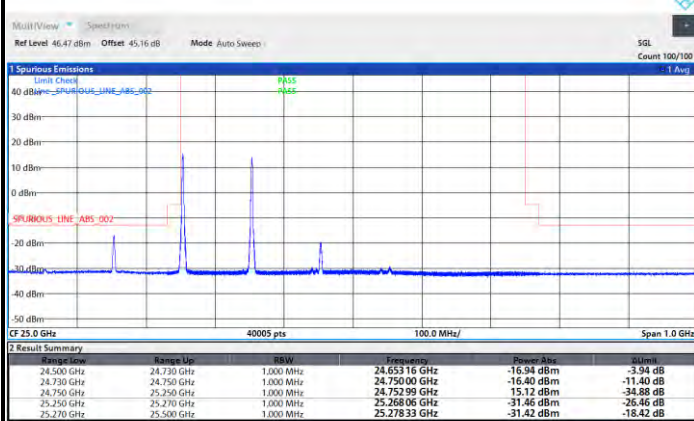


Highest Band Edge / 1 RB

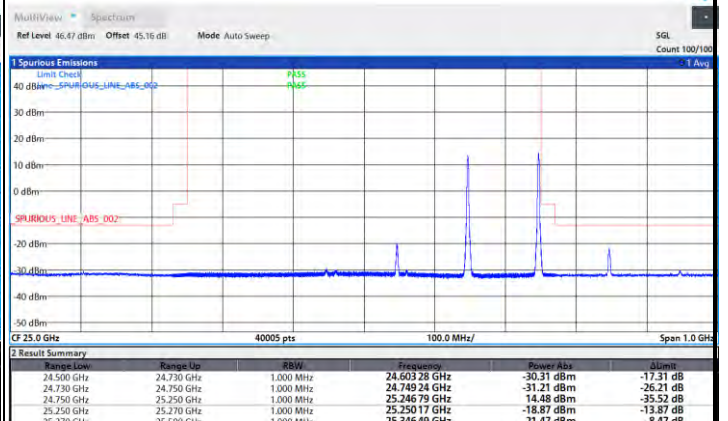


NR Band n258B / 200MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

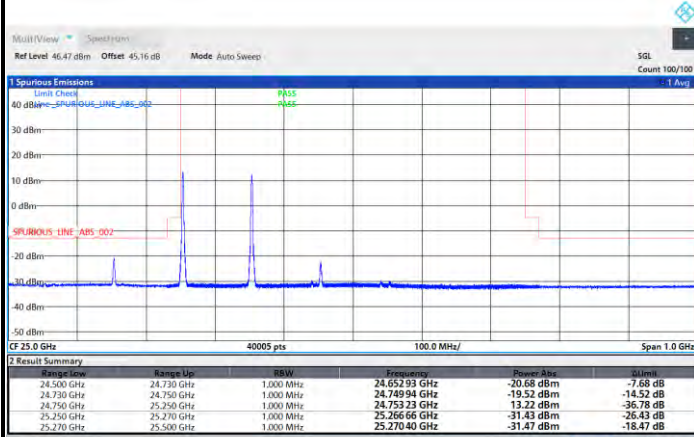




DFT-s-OFDM

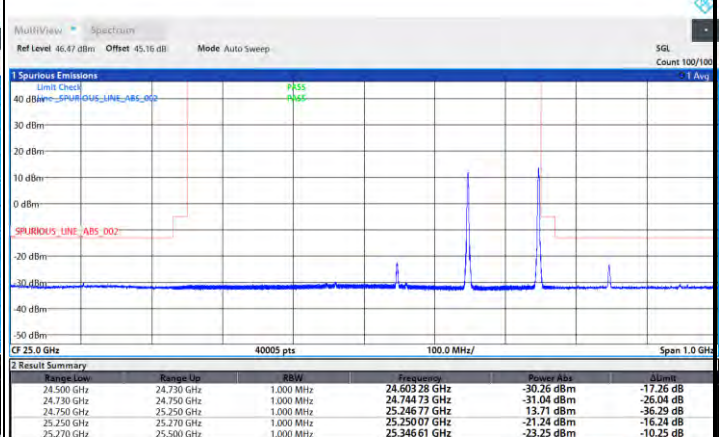
NR Band n258B / 200MHz / 64QAM

Lowest Band Edge / 1 RB



20:46:36 08.02.2025

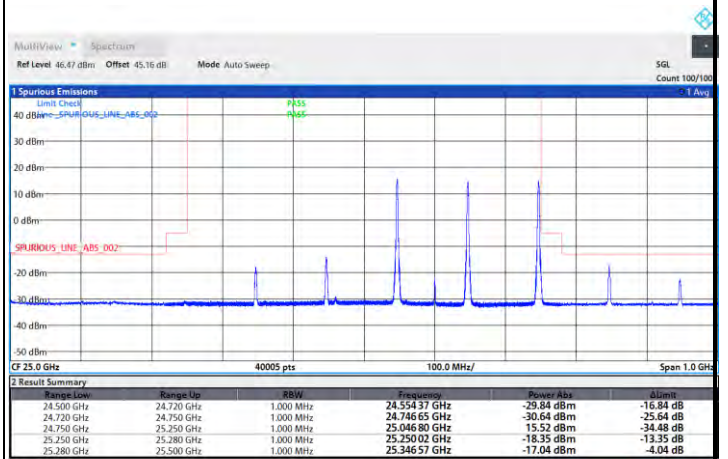
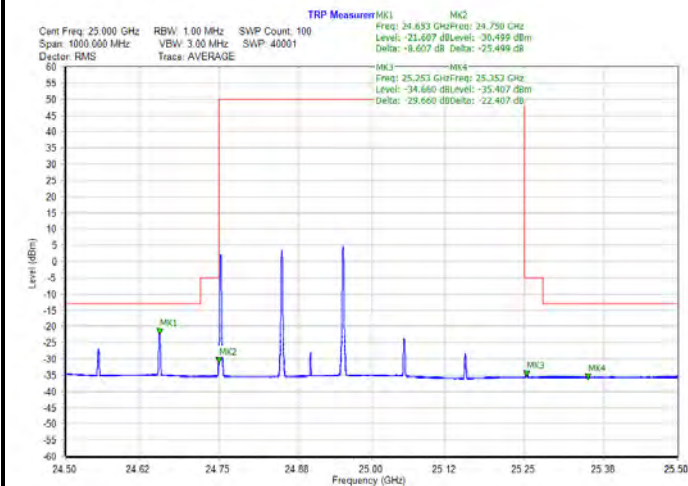
Highest Band Edge / 1 RB



09:35:28 10.02.2025

NR Band n258B / 300MHz / QPSK

Lowest Band Edge / 1 RB



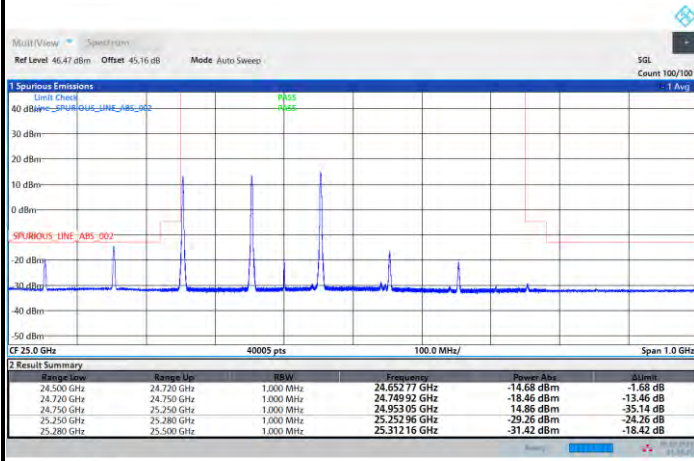
10:02:42 10.02.2025



DFT-s-OFDM

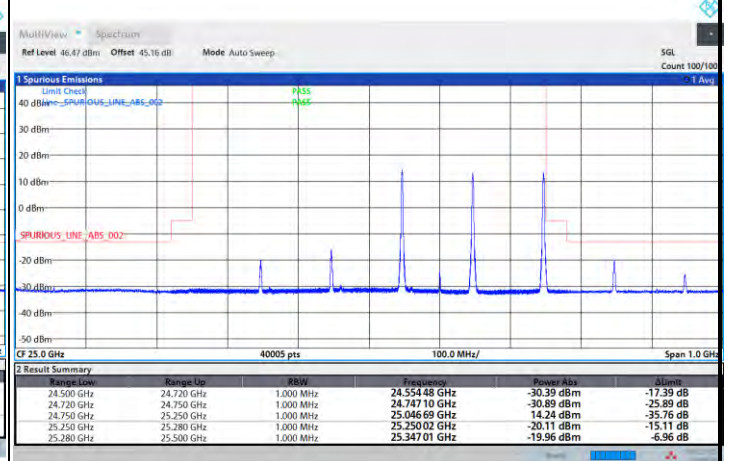
NR Band n258B / 300MHz / 16QAM

Lowest Band Edge / 1 RB



21:38:35 08.02.2025

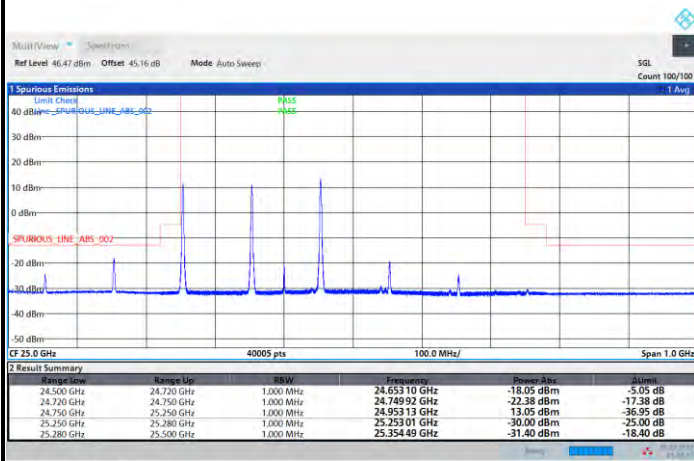
Highest Band Edge / 1 RB



10:08:20 10.02.2025

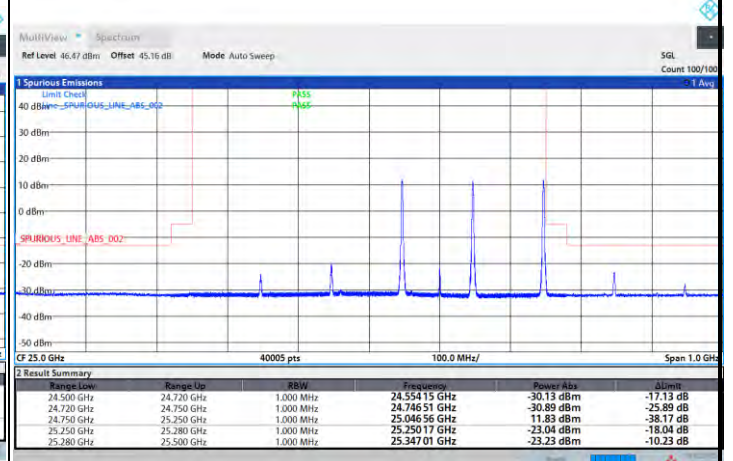
NR Band n258B / 300MHz / 64QAM

Lowest Band Edge / 1 RB



21:39:48 08.02.2025

Highest Band Edge / 1 RB



10:15:26 10.02.2025