



FCC RADIO TEST REPORT

FCC ID : PKRISGFW2010
Equipment : 5G High Performance Sub6 & mmWave Outdoor CPE
Brand Name : Inseego
Model Name : FW2010-1, FW2010e-1
Marketing Name : FW2010
Applicant : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Manufacturer : MeiG Smart Technology Co., Ltd
Floor 2, Office Building No. 5, Lingxia Road, Fenghuang
Community, Fuyong Street, Bao 'an District, Shenzhen
Standard : FCC 47 CFR Part 2, and 30

The product was received on Mar. 08, 2021 and testing was started from Mar. 09, 2021 and completed on Mar. 30, 2021. 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test	5
1.3 Modification of EUT	5
1.4 Testing Location	6
1.5 Applied Standards	6
2 Test Configuration of Equipment Under Test	7
2.1 Test Mode.....	7
2.2 Connection Diagram of Test System	8
2.3 Support Unit used in test configuration	8
2.4 Measurement Results Explanation Example	8
2.5 Far Field Condition for Frequency above 18GHz.....	9
2.6 Frequency List of Low/Middle/High Channels.....	10
3 Radiated Test Items	11
3.1 Measuring Instruments.....	11
3.2 Test Setup	11
3.3 Test Result of Radiated Test.....	13
3.4 EIRP Measurement	14
3.5 Occupied Bandwidth	15
3.6 Radiated Spurious Emission Measurement.....	16
3.7 Frequency Stability Measurement.....	17
4 List of Measuring Equipment.....	18
5 Uncertainty of Evaluation.....	19
Appendix A. Test Results of EIRP	
Appendix A.1 Test Results of EIRP: NR Band n260	
Appendix A.2 Test Results of EIRP: NR Band n261	
Appendix B. Radiated Test	
Appendix B.1 Radiated Test: NR Band n260 (Beam ID: 63+319)	
Appendix B.2 Radiated Test: NR Band n260 (Beam ID: 63)	
Appendix B.3 Radiated Test: NR Band n260 (Beam ID: 319)	
Appendix B.4 Radiated Test: NR Band n261 (Beam ID: 63+319)	
Appendix B.5 Radiated Test: NR Band n261 (Beam ID: 63)	
Appendix B.6 Radiated Test: NR Band n261 (Beam ID: 319)	
Appendix C. R&S Mixer Certificate	



History of this test report

Report No.	Version	Description	Issued Date
FG130414B	01	Initial issue of report	Mar. 30, 2021
FG130414B	02	Typo correction	Apr. 21, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Limit	Result (PASS/FAIL)	Remark
3.4	§2.1046 §30.202	EIRP Measurement	+55dBm	Pass	-
3.5	§2.1049	Occupied Bandwidth	Not Applicable	Reporting only	-
3.6	§2.1053 §30.203	Radiated Spurious Emission	-5dBm/MHz -13dBm/MHz	Pass	-
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Within the band	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Dara Chiu



1 General Description

1.1 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	5G High Performance Sub6 & mmWave Outdoor CPE
Brand Name	Inseego
Model Name	FW2010-1, FW2010e-1
Model Name	FW2010
FCC ID	PKRISGFW2010
EUT supports Radios application	LTE/5G NR/GNSS Bluetooth LE

Remark: The purpose of different model name (FW2010-1 and FW2010e-1) is for marketing segmentation, and all the tests were performed with FW2010-1.

EUT Information List	
S/N	Performed Test Item
#03	All test items

Remark: Sample S/N number is under internal control.

Specification of Accessories				
POE Injector	Brand Name	TOPOW	Model Name	TPT90S56POE-MG

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Device Category in Part 30	Transportable station
Tx Frequency	NR band n260: 37GHz ~ 40GHz NR band n261: 27.5GHz ~ 28.35GHz
Rx Frequency	NR band n260: 37GHz ~ 40GHz NR band n261: 27.5GHz ~ 28.35GHz
Support Bandwidth	NR band n260: 50 MHz and 100 MHz NR band n261: 50 MHz and 100 MHz
Maximum Number of contiguous CC	1
Maximum Aggregated Bandwidth	100MHz
Maximum Output Power (EIRP)	NR band n260: 50.40 dBm NR band n261: 47.94 dBm
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM

Note: Highest EIRP was measured on dual beam case for n260 and n261 band.

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: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site Information	Site No.	Engineer	Temperature	Humidity
	03CH10-HY	Yu Wang	22 ~ 24 °C	53 ~ 55 %
	03CH18-HY	Yu Wang	24.2 ~ 26.3 °C	61.7 ~ 65.3 %

FCC Designation No. TW0007

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 842590 D01 Upper Microwave Flexible Use Service v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

The EUT supports single beam operation (SISO) and dual beams transmitted simultaneously (MIMO) and the detail of product operation is in the operation description document as submitted in separate document. Preliminary EIRP test was performed for all beam configurations in the anechoic chamber at the manufacturer's facility so the EIRP worst case beam-pair were identified. EIRP was investigated that the dual beams' rated maximum EIRP is higher than single beam's one. The NR radio operation is controlled via software tool QRCT FTM mode (Factory mode).

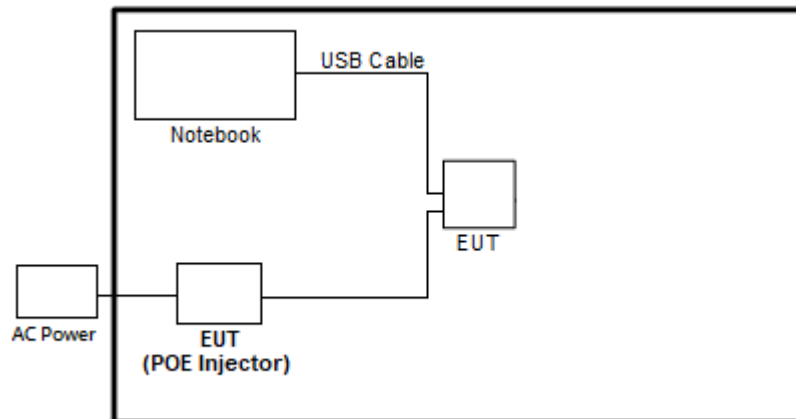
The EUT is forced to operate continuously (100% duty cycle) with maximum output power during the test.

2.1 Test Mode

For radiated measurement, the pre-scan is performed to find the worst cases EUT position.

Test Items	Band	Bandwidth (MHz)		Modulation				RB #			Test Channel		
		50	100	PI/2 BPSK	QPSK	16QAM	64QAM	8	-	Full	L	M	H
EIRP	n260 n261	v	v	v	v	v	v	v		v	v	v	v
99% Occupied Bandwidth	n260 n261	v	v	v	v	v	v			v	v	v	v
Out of Band Emission	n260 n261	v	v	v	v	v	v	v		v	v		v
Spurious Emission	n260 n261	v	v		v					v	v	v	v
Frequency Stability	n260 n261	CW tone										v	
Remark	1. The mark “v” means that this configuration is chosen for testing.												
	2. Instead of 1RB, 8RB will be used as lowest RB configuration due to MPR defined by 3GPP specification (when the bandwidth of the RB allocation size is less than 10.8MHz, there is a MPR of 10 dB).												
	3. For the EIRP of fundamental signal, both SISO and MIMO operating modes are evaluated with different RB settings and QPSK are evaluated as preliminary test. The worst conditions are reported with different modulations and are reported accordingly.												
	4. For OBW, the Outer RB settings with QPSK are evaluated as preliminary test. The highest power channels are tested with different modulations and are reported accordingly.												
	5. For radiated spurious emission, the worst condition of the EIRP of fundamental signal is chosen for radiated spurious emission from 30MHz to 200GHz for supporting bands, respectively. The spurious emissions are also investigated in EN-DC mode (simultaneous transmission with LTE Band 12), and there are no obvious new emissions.												
	6. Spurious emissions are initially measured by using radiated EIRP method. If EIRP measurement results exceed the emission limit, then TRP measurement will be used for official test report. Test results of TRP measurement are marked as “TRP Measurement” .												
	7. Above both modulation type DFT-s OFDM and CP-OFDM are evaluated.												

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Notebook	Acer	N16P7	N/A	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.

2.4 Measurement Results Explanation Example

According to ANSI C63.26-2015 Section 5.2.7

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

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.

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

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

Example :

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



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	1.2	1.58
	40	60	0.0075	0.96		
QWH-UPRR00	40	48	0.0075	0.61	1.2	1.58
	60	48	0.0050	0.92		
QWH-EPRR00	60	31	0.0050	0.38	1.2	1.58
	90	31	0.0033	0.58		
QWH-FPRR00	90	21	0.0033	0.26	1.2	1.58
	140	21	0.0021	0.41		
QWH-GPRR00	140	15	0.0021	0.21	1.2	1.58
	220	15	0.0014	0.33		



2.6 Frequency List of Low/Middle/High Channels

NR Band n260 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	37025.04	38498.88	39975.00
100	Frequency	37050.12	38498.88	39949.92

NR Band n261 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Frequency	27525.00	27924.96	28324.92
100	Frequency	27550.08	27924.96	28299.96

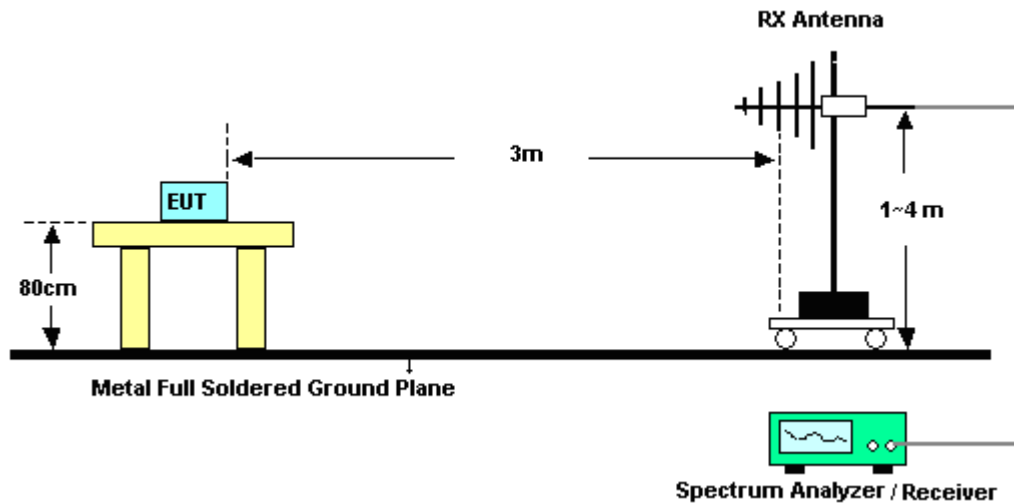
3 Radiated Test Items

3.1 Measuring Instruments

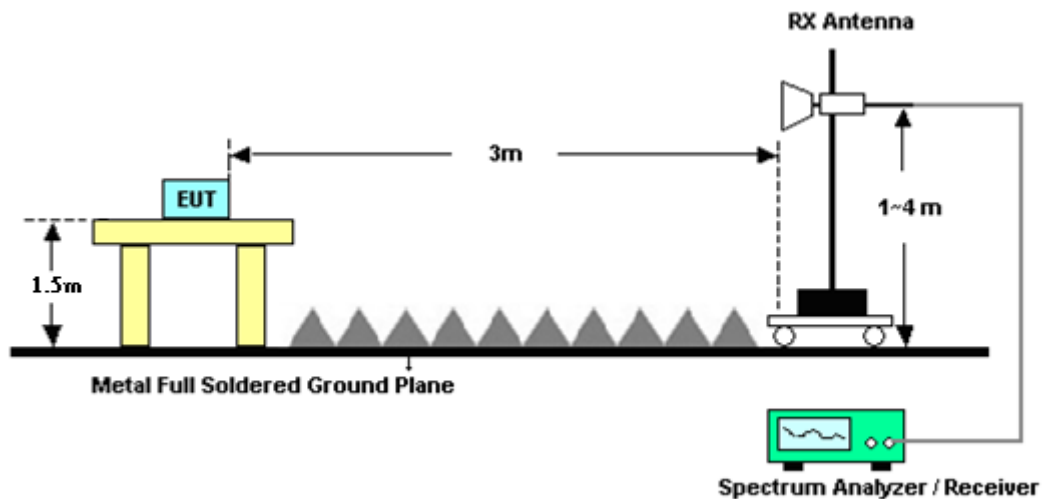
See list of measuring instruments of this test report.

3.2 Test Setup

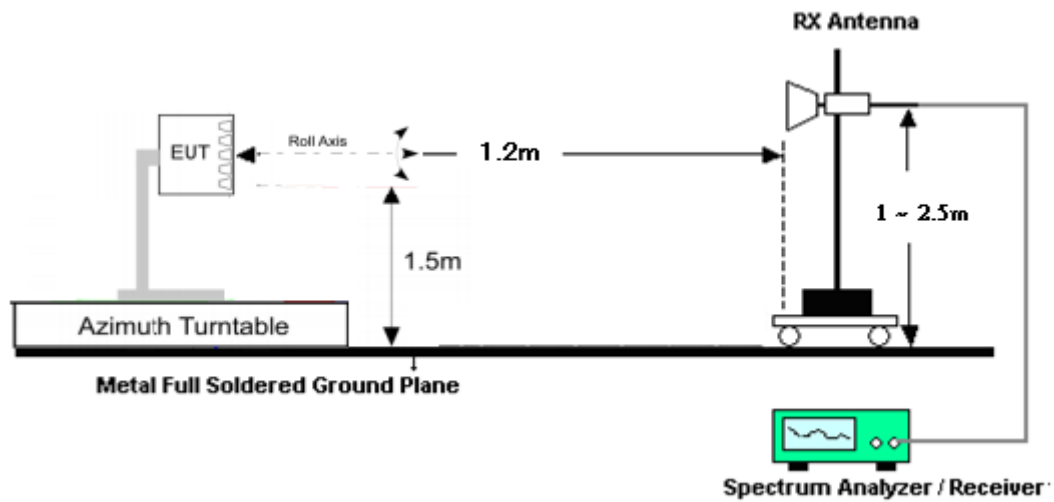
For radiated emissions from 30MHz to 1GHz



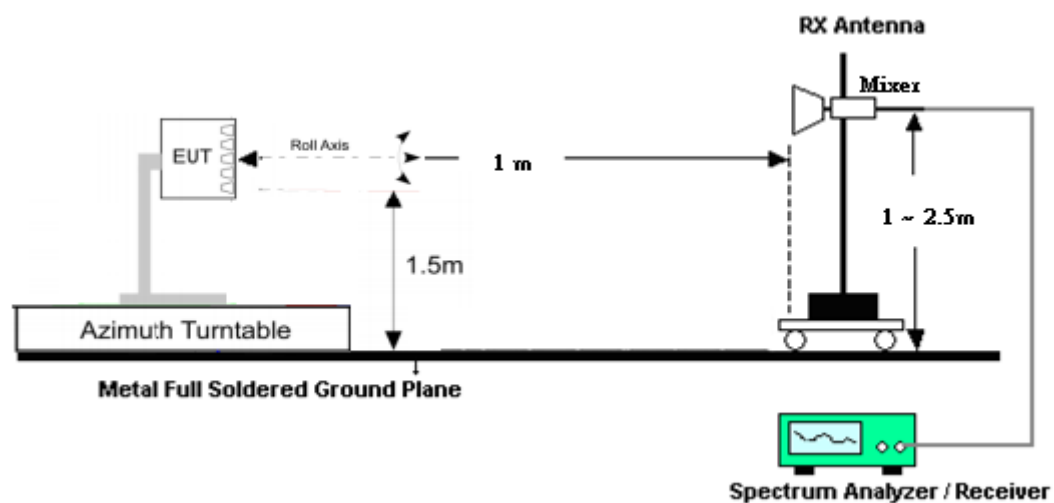
For radiated emissions 1GHz to 18GHz



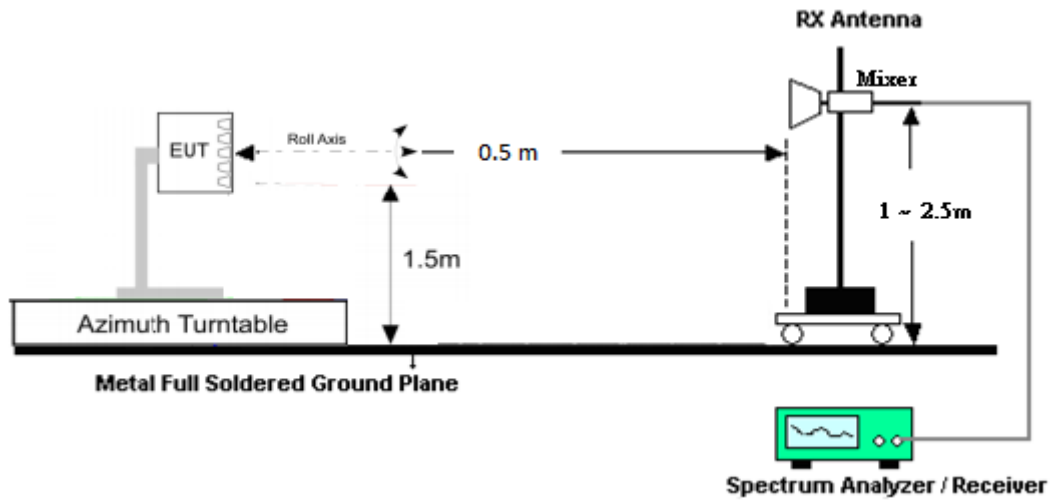
For radiated emissions above 18GHz up to 40GHz



For radiated emissions above 40GHz up to 140GHz



For radiated emissions above 140GHz up to 200GHz



3.3 Test Result of Radiated Test

Please refer to Appendix A and B.



3.4 EIRP Measurement

3.4.1 Description of EIRP Measurement

For transportable stations, the average power of the sum of all antenna elements is limited to a maximum EIRP of +55 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.

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
$$\text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$
If EIRP measurement results exceed the emission limit, then TRP measurement will be used as an alternative method. Test results of TRP measurement are marked as "TRP Measurement".
10. The conversion loss of RF mixer is also included in conversion loss table of the spectrum analyzer when measurement frequency is above 40GHz.



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
SHF-EHF Horn Antenna	SCHWARZ BECK	BBHA 9170	BBHA9170584	18GHz~40GHz	Dec. 11, 2020	Mar. 09, 2021~ Mar. 30, 2021	Dec. 10, 2021	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101010	10Hz~44GHz	Nov. 25, 2020	Mar. 09, 2021~ Mar. 30, 2021	Nov. 24, 2021	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	9kHz~40GHz	Dec. 22, 2020	Mar. 09, 2021~ Mar. 30, 2021	Dec. 21, 2021	Radiation (03CH18-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Nov. 10, 2020	Mar. 26, 2021	Nov. 09, 2021	Radiation (03CH18-HY)
Turn Table	EMEC	N/A	N/A	Phi/Theta 0~360 Degree	N/A	Mar. 09, 2021~ Mar. 30, 2021	N/A	Radiation (03CH18-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table	N/A	Mar. 09, 2021~ Mar. 30, 2021	N/A	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	103738	9kHz to 30GHz	May 14, 2020	Mar. 28, 2021	May 13, 2021	Radiation (03CH18-HY)
Harmonic Mixer (*)	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Mar. 17, 2020	Mar. 28, 2021	Mar. 16, 2023	Radiation (03CH18-HY)
Harmonic Mixer (*)	Rohde & Schwarz	FSZ-90	101811	60GHz to 90GHz	Jul. 16, 2018	Mar. 28, 2021	Jul. 15, 2021	Radiation (03CH18-HY)
Harmonic Mixer (*)	Rohde & Schwarz	RPG FS-Z140	101128	90GHz to 140GHz	Oct. 26, 2020	Mar. 28, 2021	Oct. 25, 2023	Radiation (03CH18-HY)
Harmonic Mixer (*)	Rohde & Schwarz	RPG FS-Z220	101014	140GHz to 220GHz	Aug. 27, 2018	Mar. 28, 2021	Aug. 26, 2021	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	923600007	40-60 GHz	Aug. 17, 2018	Mar. 28, 2021	Aug. 16, 2021	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	784600034	60-90 GHz	Aug. 17, 2018	Mar. 28, 2021	Aug. 16, 2021	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	923800009	90-140 GHz	Aug. 17, 2018	Mar. 28, 2021	Aug. 16, 2021	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-GPRR00	923900001	140-220 GHz	Aug. 17, 2018	Mar. 28, 2021	Aug. 16, 2021	Radiation (03CH18-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 21, 2020	Mar. 12, 2021~ Mar. 26, 2021	Oct. 20, 2021	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35413 & 02	30MHz~1GHz	Feb. 10, 2021	Mar. 12, 2021~ Mar. 26, 2021	Feb. 09, 2022	Radiation (03CH10-HY)
Horn Antenna	SCHWARZ BECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 04, 2020	Mar. 12, 2021~ Mar. 26, 2021	Aug. 03, 2021	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Mar. 01, 2021	Mar. 12, 2021~ Mar. 26, 2021	Feb. 28, 2022	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Mar. 12, 2021~ Mar. 26, 2021	Jan. 14, 2022	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 12, 2021~ Mar. 26, 2021	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 12, 2021~ Mar. 26, 2021	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Mar. 12, 2021~ Mar. 26, 2021	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Mar. 12, 2021~ Mar. 26, 2021	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Mar. 12, 2021~ Mar. 26, 2021	Nov. 01, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E,MY11693/4 PE,MY2855/2	30MHz~1GHz	Nov. 06, 2020	Mar. 12, 2021~ Mar. 26, 2021	Nov. 05, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E,MY11693/4 PE,MY2855/2	1GHz~18GHz	Nov. 06, 2020	Mar. 12, 2021~ Mar. 26, 2021	Nov. 05, 2021	Radiation (03CH10-HY)

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

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.62
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Uncertainty of Radiated Emission Measurement (40 GHz ~ 140 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.92
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Uncertainty of Radiated Emission Measurement (140 GHz ~ 200 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.78
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Appendix A. Test Results of EIRP

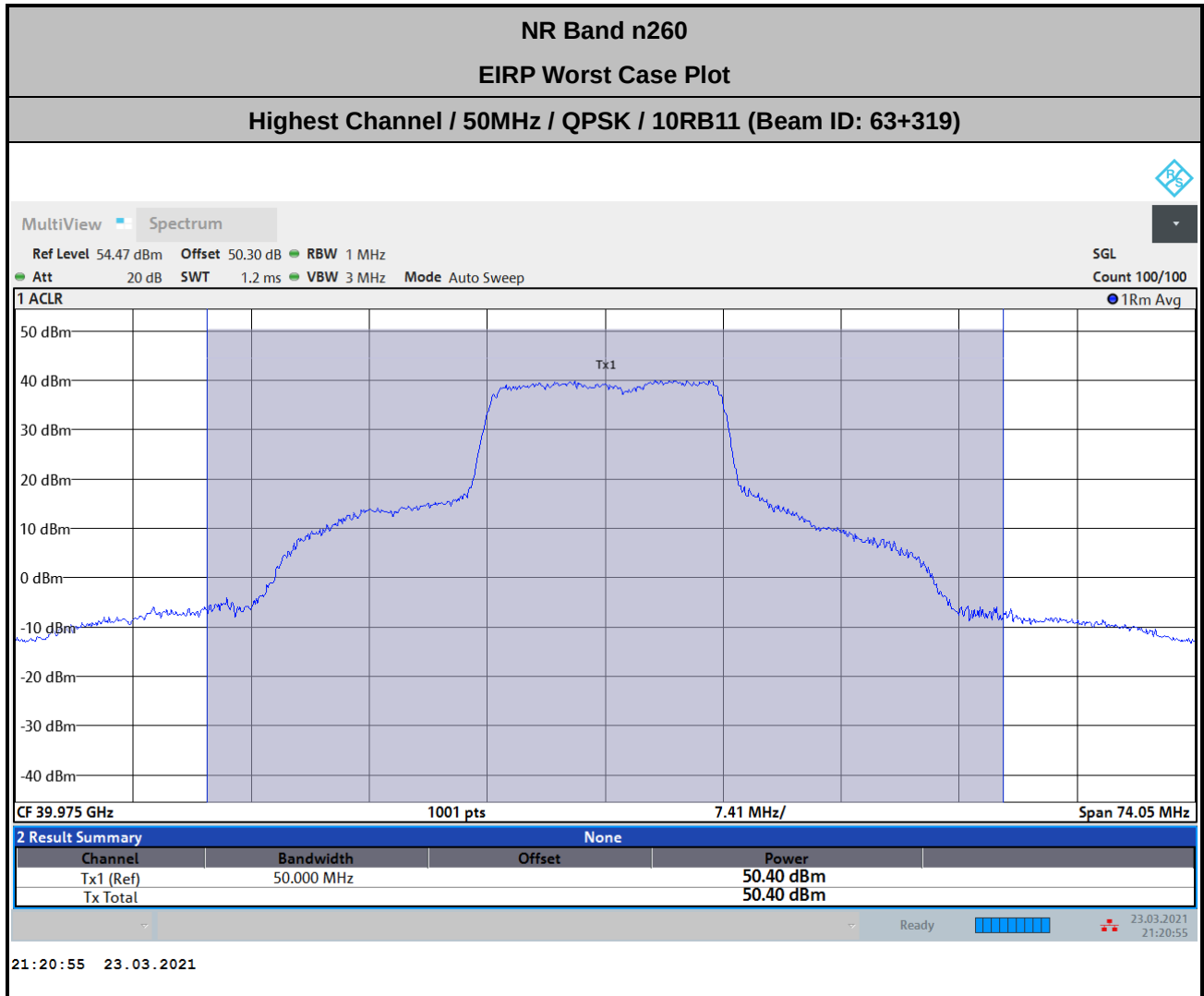
Appendix A.1 Test Results of EIRP: NR Band n260

EIRP Power(Average power)

NR Band n260 (Beam ID: 63+319)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Lowest	50	DFT-S	QPSK	48.86
	100	DFT-S	QPSK	48.87
Middle	50	DFT-S	QPSK	48.92
	100	DFT-S	QPSK	49.19
Highest	50	DFT-S	QPSK	50.40
	50	CP	QPSK	43.60
	50	DFT-S	BPSK	50.39
	50	DFT-S	16QAM	46.21
	50	DFT-S	64QAM	45.26
	100	DFT-S	QPSK	50.17
	100	CP	QPSK	43.45
	100	DFT-S	BPSK	50.18
	100	DFT-S	16QAM	45.93
	100	DFT-S	64QAM	44.91

NR Band n260 (Beam ID: 63)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Highest	50	DFT-S	QPSK	46.03
	50	CP	QPSK	41.23
	50	DFT-S	BPSK	46.01
	50	DFT-S	16QAM	41.89
	50	DFT-S	64QAM	40.84
	100	DFT-S	QPSK	47.21
	100	CP	QPSK	42.49
	100	DFT-S	BPSK	47.29
	100	DFT-S	16QAM	42.97
	100	DFT-S	64QAM	41.86

NR Band n260 (Beam ID: 319)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Highest	50	DFT-S	QPSK	48.40
	50	CP	QPSK	43.53
	50	DFT-S	BPSK	48.48
	50	DFT-S	16QAM	44.21
	50	DFT-S	64QAM	43.23
	100	DFT-S	QPSK	43.71
	100	CP	QPSK	40.06
	100	DFT-S	BPSK	44.20
	100	DFT-S	16QAM	40.53
	100	DFT-S	64QAM	39.67



$Offset = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$
 $= 43.8 + 2.72 + 107 + 20\log(1.2) - 104.8 = 50.30 \text{ (dB)}$

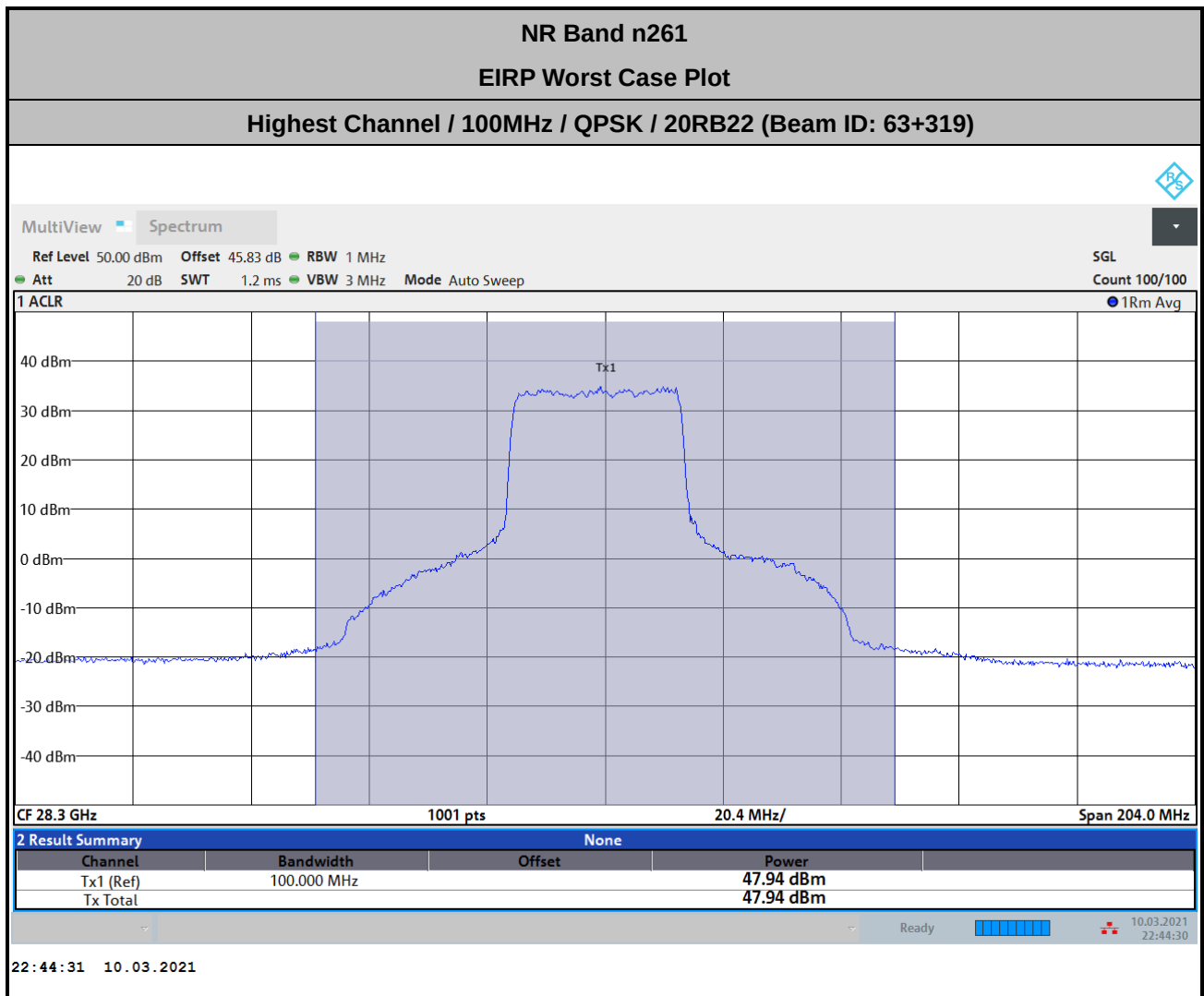
Appendix A.2 Test Results of EIRP: n261

EIRP Power(Average power)

NR Band n261 (Beam ID: 63+319)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Lowest	50	DFT-S	QPSK	45.35
	100	DFT-S	QPSK	45.40
Middle	50	DFT-S	QPSK	46.27
	100	DFT-S	QPSK	47.00
Highest	50	DFT-S	QPSK	47.74
	50	CP	QPSK	41.24
	50	DFT-S	BPSK	47.64
	50	DFT-S	16QAM	43.98
	50	DFT-S	64QAM	42.97
	100	DFT-S	QPSK	47.94
	100	CP	QPSK	40.71
	100	DFT-S	BPSK	47.78
	100	DFT-S	16QAM	44.00
	100	DFT-S	64QAM	43.11

NR Band n261 (Beam ID: 63)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Highest	50	DFT-S	QPSK	44.02
	50	CP	QPSK	39.99
	50	DFT-S	BPSK	43.85
	50	DFT-S	16QAM	40.15
	50	DFT-S	64QAM	39.08
	100	DFT-S	QPSK	43.75
	100	CP	QPSK	39.28
	100	DFT-S	BPSK	43.89
	100	DFT-S	16QAM	40.07
	100	DFT-S	64QAM	39.01

NR Band n261 (Beam ID: 319)				
Maximum Average EIRP [dBm]				
Channel	BW [MHz]	Waveform	Modulation	Inner Full
Highest	50	DFT-S	QPSK	43.65
	50	CP	QPSK	39.66
	50	DFT-S	BPSK	43.66
	50	DFT-S	16QAM	39.91
	50	DFT-S	64QAM	38.97
	100	DFT-S	QPSK	43.55
	100	CP	QPSK	39.07
	100	DFT-S	BPSK	43.57
	100	DFT-S	16QAM	39.73
	100	DFT-S	64QAM	38.84



$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$
 $= 39.4 + 2.65 + 107 + 20\log(1.2) - 104.8 = 45.83 \text{ (dB)}$

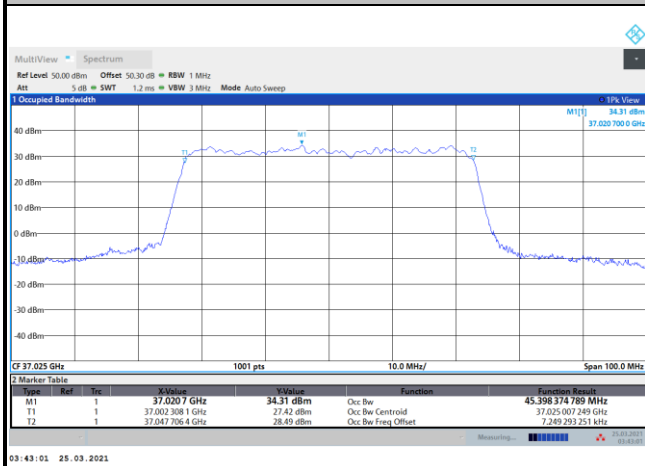
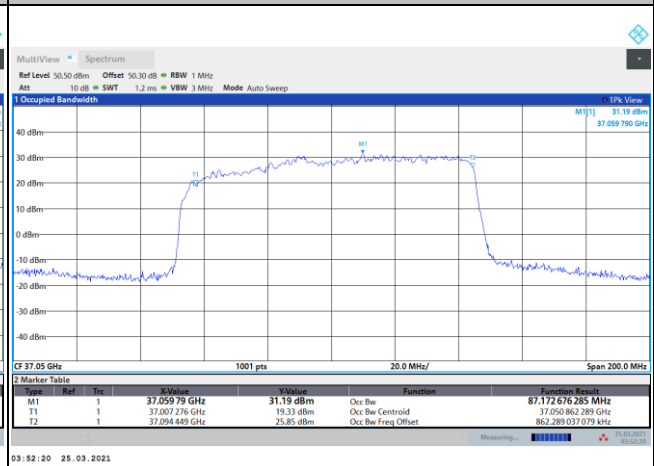
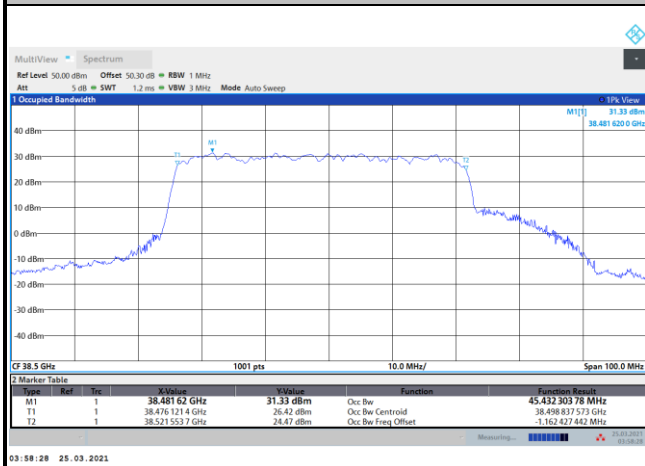
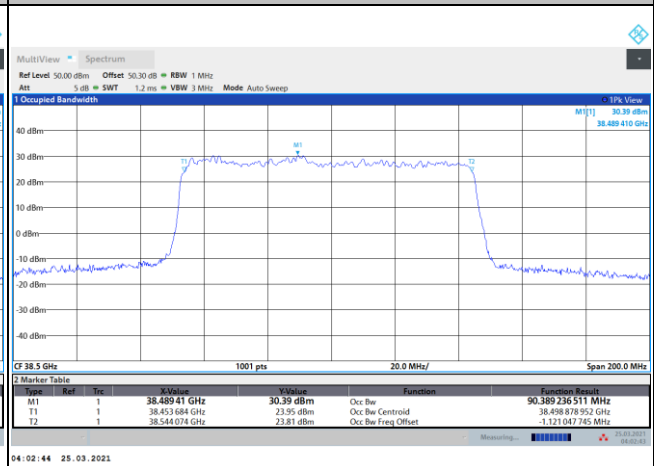
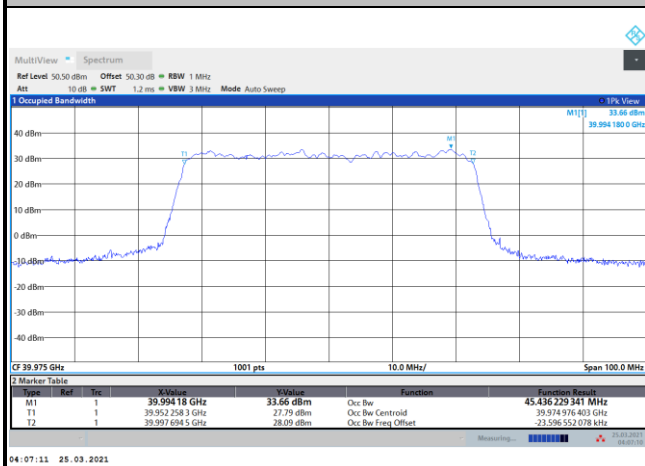
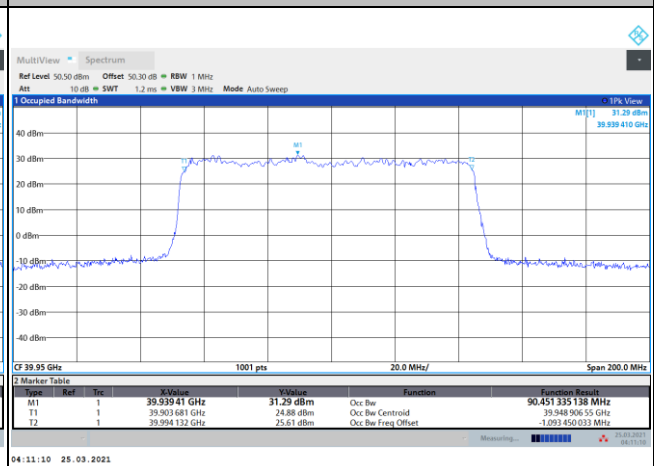
Appendix B. Radiated Test

Appendix B.1 Radiated Test NR Band n260 (Beam ID: 63+319)

Occupied Bandwidth

Mode	DFT-s-OFDM NR Band n260 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	-	45.39	-	-	-	87.17	-	-
Middle CH	-	45.43	-	-	-	90.38	-	-
Highest CH	45.34	45.43	45.11	45.24	90.19	90.45	90.5	90.73

Mode	CP-OFDM NR Band n260 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.21	-	-	92.64	-	-
Middle CH	45.43	-	-	92.60	-	-
Highest CH	45.28	45.08	45.24	92.67	92.92	93.11

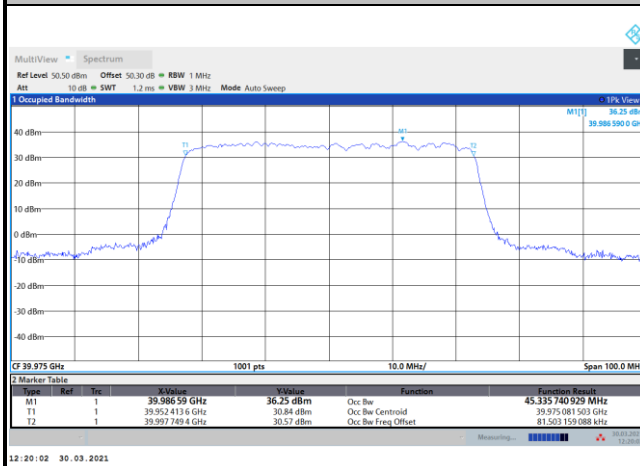
DFT-s-OFDM
NR Band n260
Lowest Channel / 50MHz / QPSK

Lowest Channel / 100MHz / QPSK

Middle Channel / 50MHz / QPSK

Middle Channel / 100MHz / QPSK

Highest Channel / 50MHz / QPSK

Highest Channel / 100MHz / QPSK




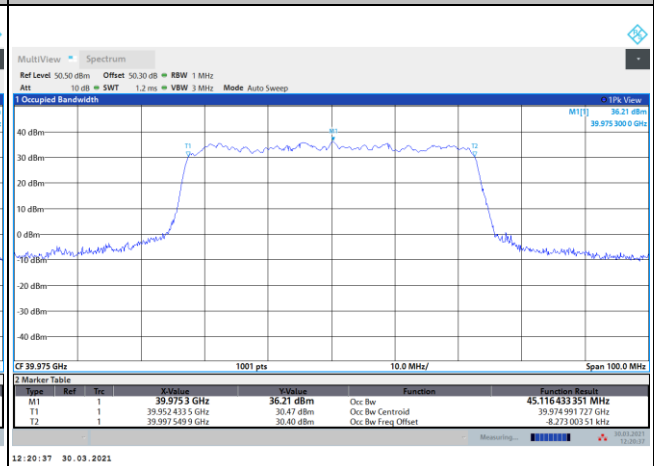
DFT-s-OFDM

NR Band n260

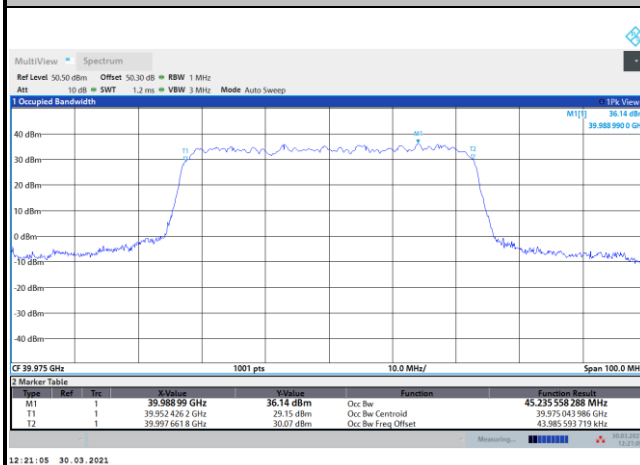
Highest Channel / 50MHz / BPSK



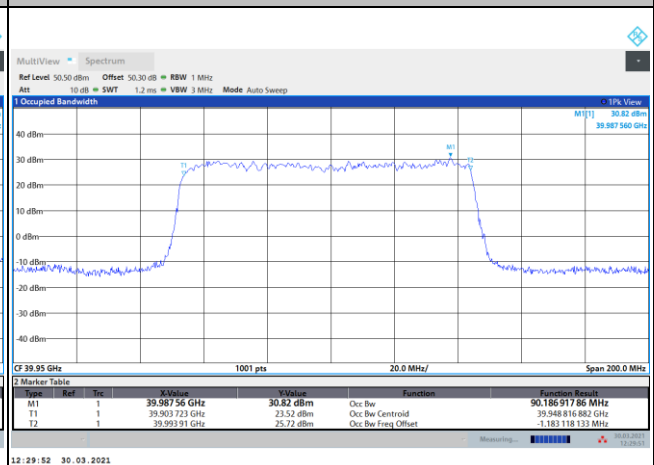
Highest Channel / 50MHz / 16QAM



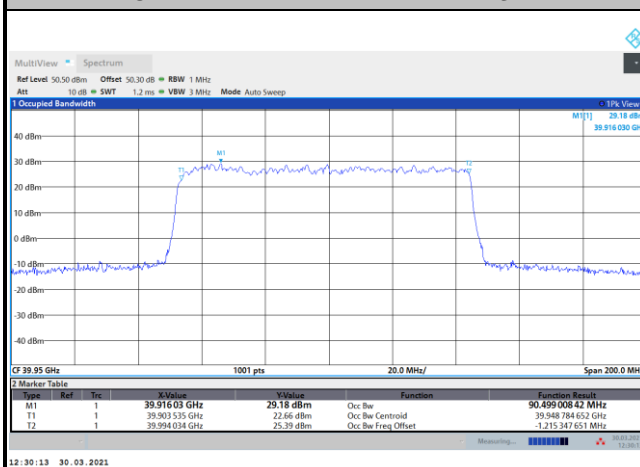
Highest Channel / 50MHz / 64QAM



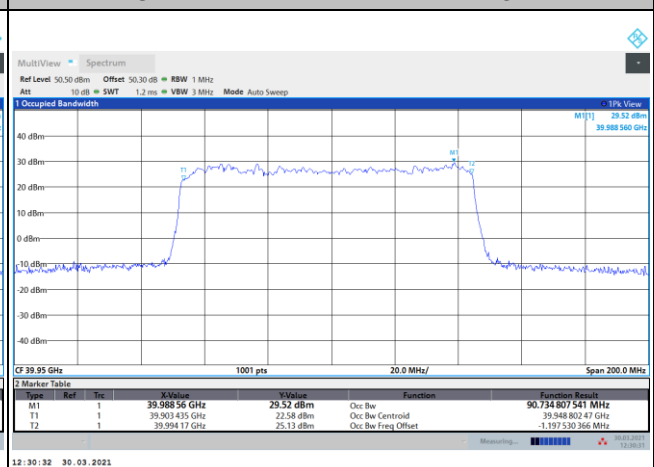
Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

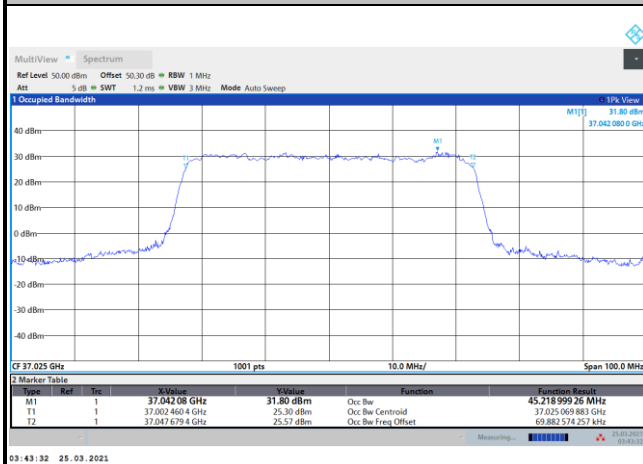




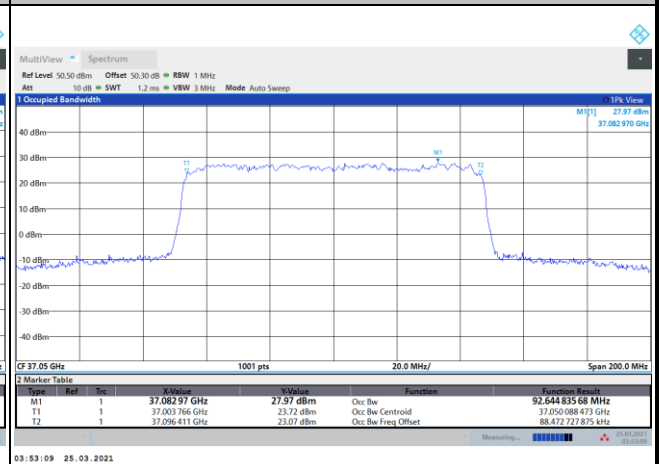
CP-OFDM

NR Band n260

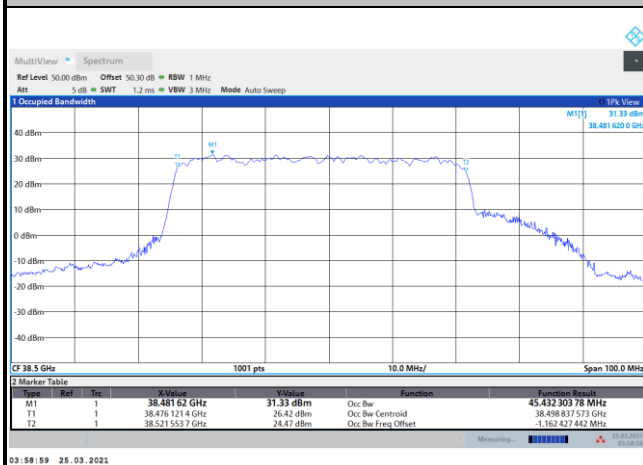
Lowest Channel / 50MHz / QPSK



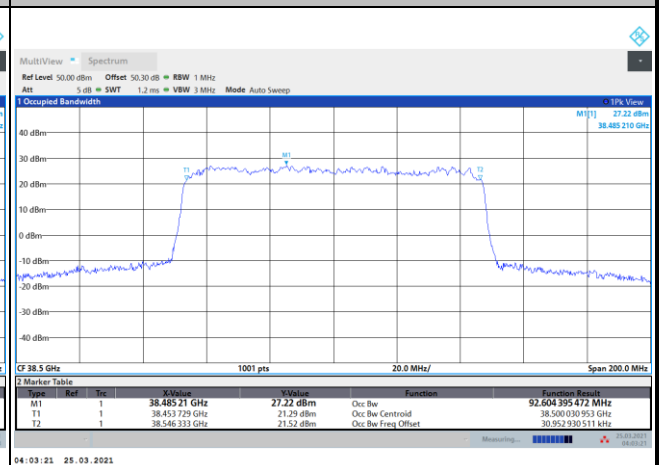
Lowest Channel / 100MHz / QPSK



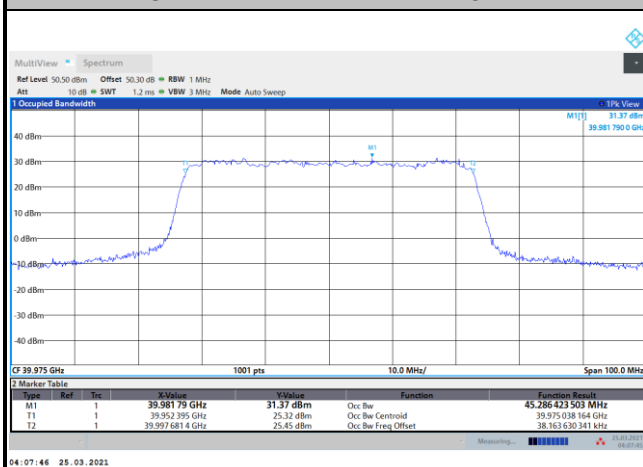
Middle Channel / 50MHz / QPSK



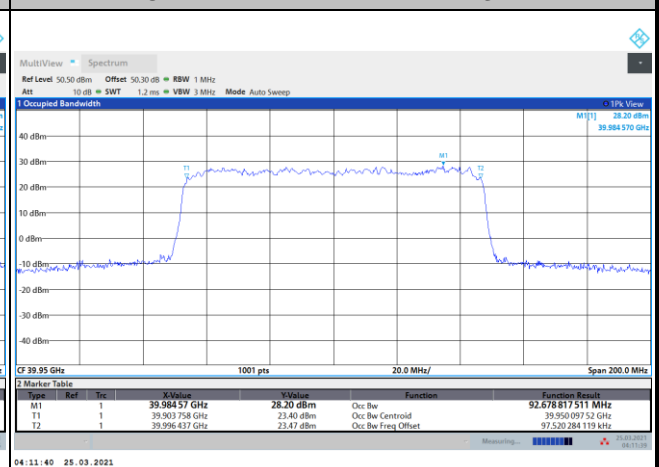
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

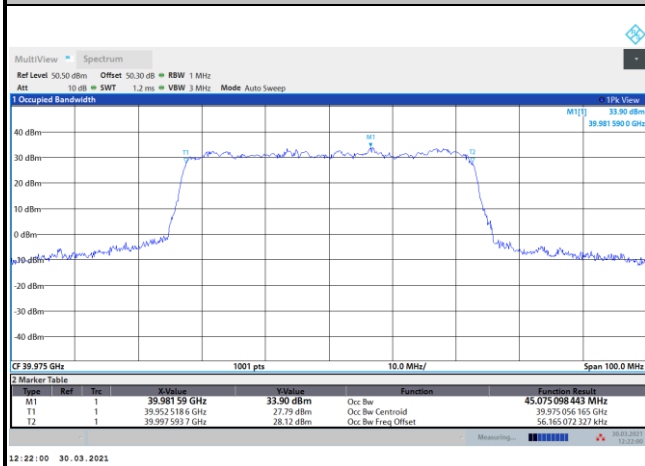




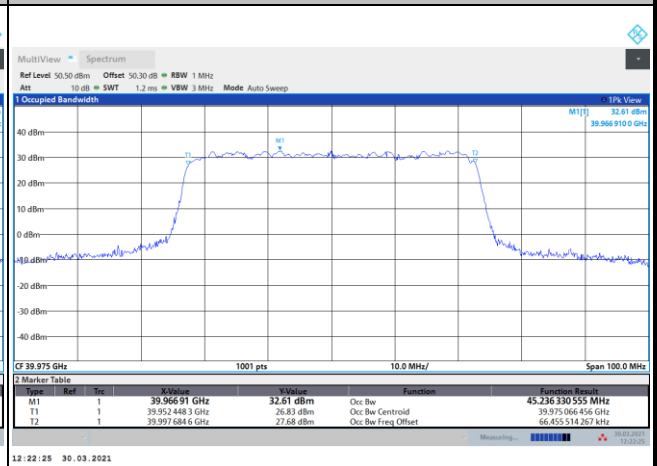
CP-OFDM

NR Band n260

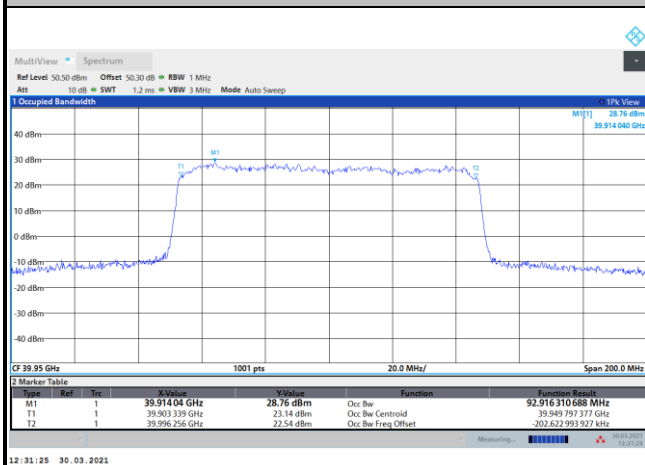
Highest Channel / 50MHz / 16QAM



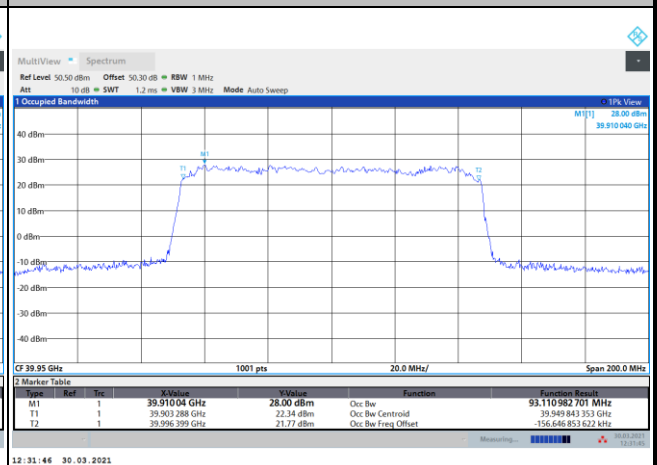
Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



**Radiated Out of Band Emissions****Test Result:**

Mode		DFT-s-OFDM NR Band n260							
Channel	BW (MHz)	Modulation	RB Size/ allocation	0 ~ 10 %OB Limit (dBm/MHz)	0 ~ 10 %OB PSD (dBm/MHz)	Result	>10%OB Limit (dBm/MHz)	>10%OB PSD (dBm/MHz)	Result
Low	50	QPSK	32/0	-5	-23.48	Pass	-13	-22.23	Pass
Low	50	BPSK	32/0	-5	-23.02	Pass	-13	-22.25	Pass
Low	50	QPSK	8/0	-5	-20.88	Pass	-13	-22.15	Pass
Low	50	QPSK	10/11	-5	-24.71	Pass	-13	-21.88	Pass
Low	50	BPSK	10/11	-5	-9.64	Pass	-13	-13.60	Pass
High	50	QPSK	32/0	-5	-21.22	Pass	-13	-19.91	Pass
High	50	BPSK	32/0	-5	-21.41	Pass	-13	-19.93	Pass
High	50	QPSK	8/24	-5	-19.65	Pass	-13	-19.83	Pass
High	50	QPSK	10/11	-5	-21.92	Pass	-13	-19.93	Pass
High	50	BPSK	10/11	-5	-10.70	Pass	-13	-14.37	Pass
Low	100	QPSK	64/0	-5	-9.72	Pass	-13	-13.43	Pass
Low	100	BPSK	64/0	-5	-8.03	Pass	-13	-13.12	Pass
Low	100	QPSK	8/0	-5	-22.63	Pass	-13	-22.17	Pass
Low	100	QPSK	20/22	-5	-25.08	Pass	-13	-22.11	Pass
Low	100	BPSK	20/22	-5	-15.55	Pass	-13	-17.99	Pass
High	100	QPSK	64/0	-5	-12.90	Pass	-13	-14.91	Pass
High	100	BPSK	64/0	-5	-12.09	Pass	-13	-16.70	Pass
High	100	QPSK	8/58	-5	-20.57	Pass	-13	-19.91	Pass
High	100	QPSK	20/22	-5	-11.62	Pass	-13	-13.40	Pass
High	100	BPSK	20/22	-5	-15.57	Pass	-13	-13.28	Pass

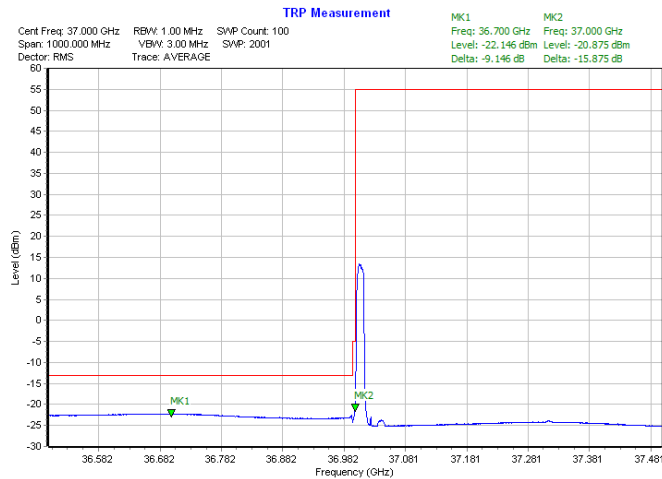
Note: Both DFT-s-OFDM and CP-OFDM waveforms are evaluated, and the DFT-s-OFDM is the worst case.



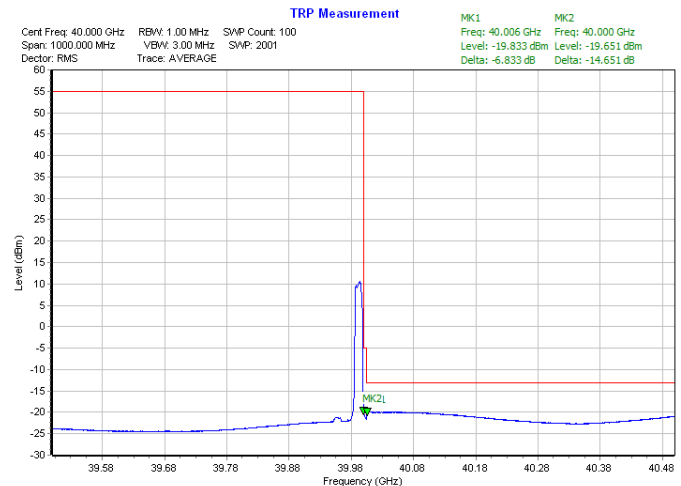
DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 8 RB (8/0)

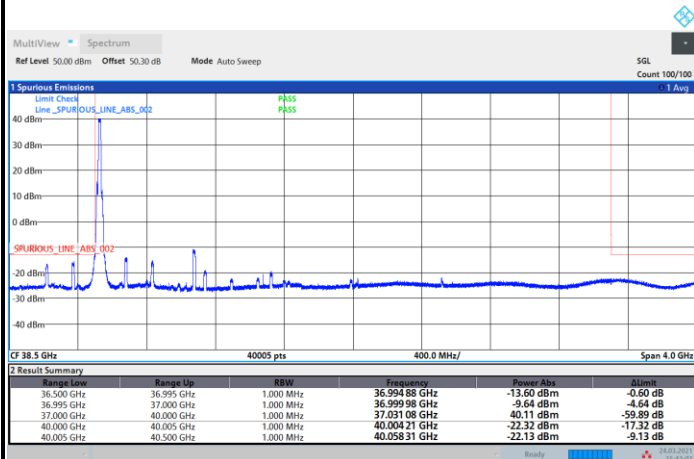


Highest Band Edge / 8 RB (8/24)

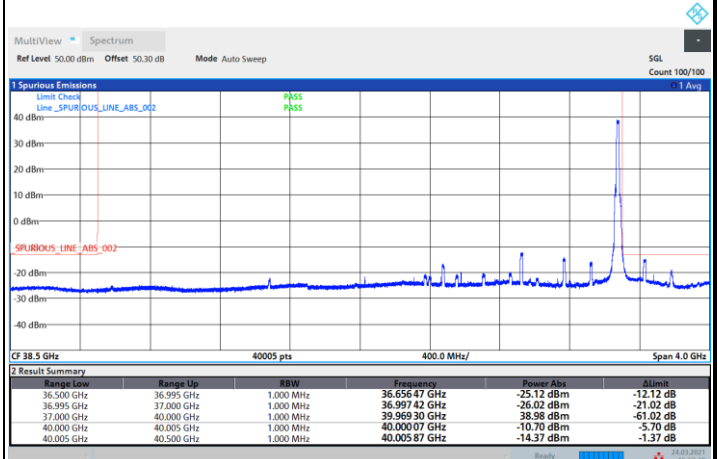


NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB (10/11)



Highest Band Edge / Full RB (10/11)

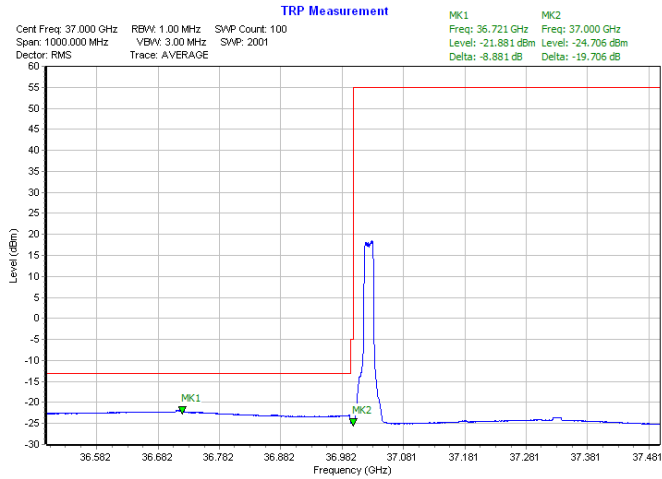




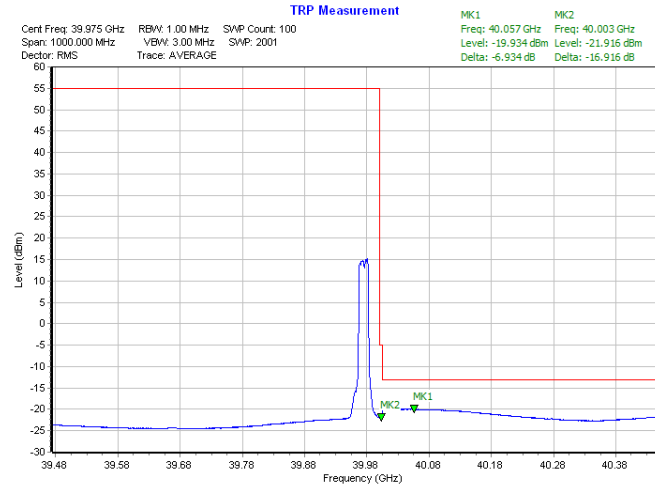
DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB (10/11)

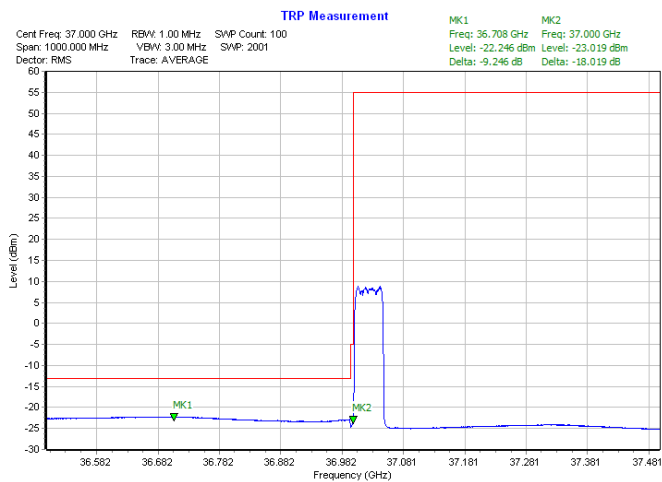


Highest Band Edge / Full RB (10/11)

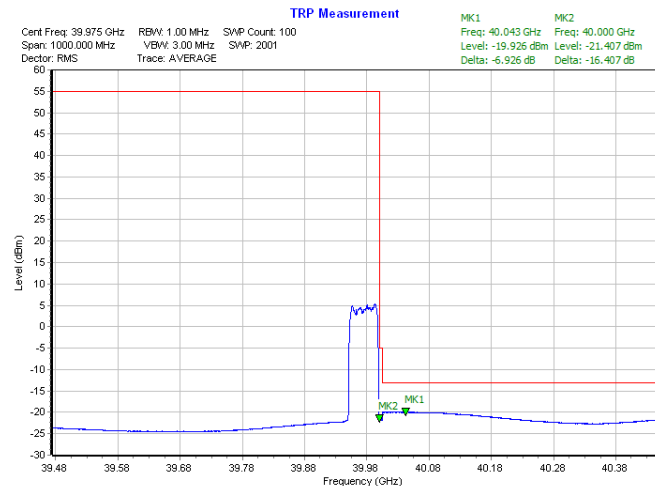


NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB (32/0)



Highest Band Edge / Full RB (32/0)

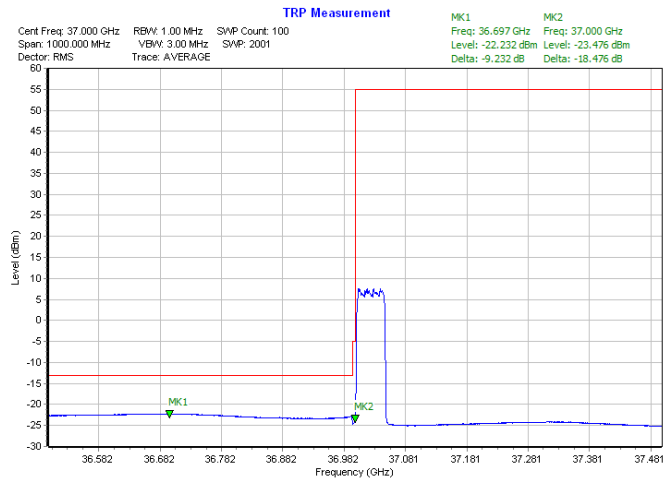




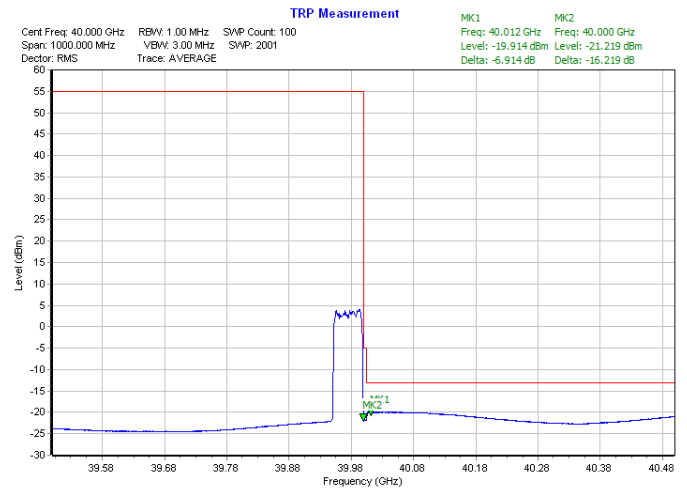
DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB (32/0)

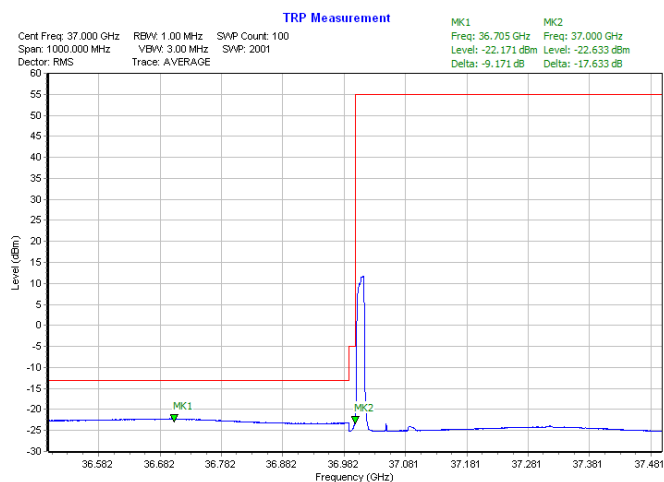


Highest Band Edge / Full RB (32/0)

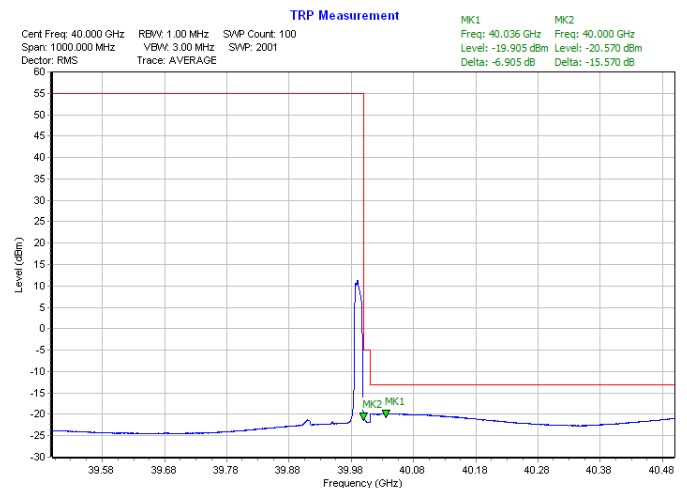


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 8 RB (8/0)



Highest Band Edge / 8 RB (8/58)



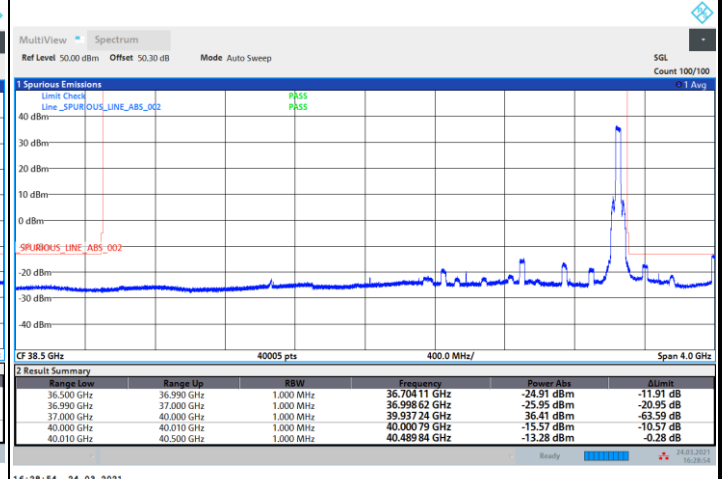
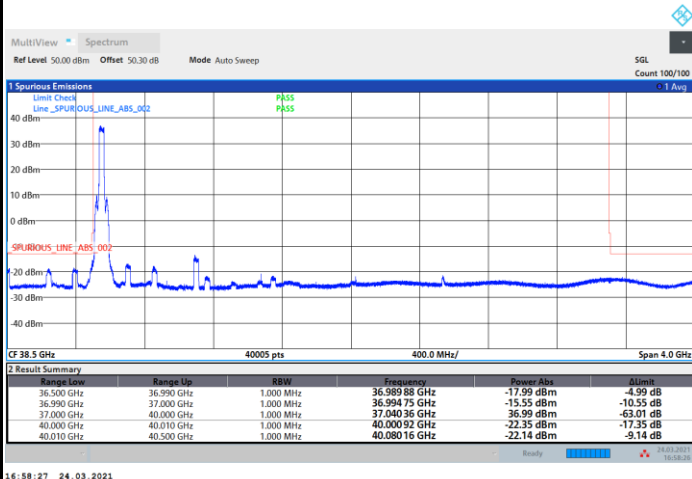


DFT-s-OFDM

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB (20/22)

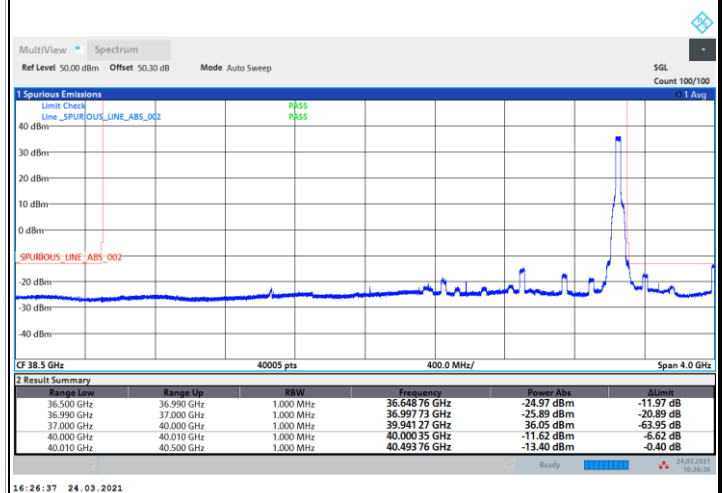
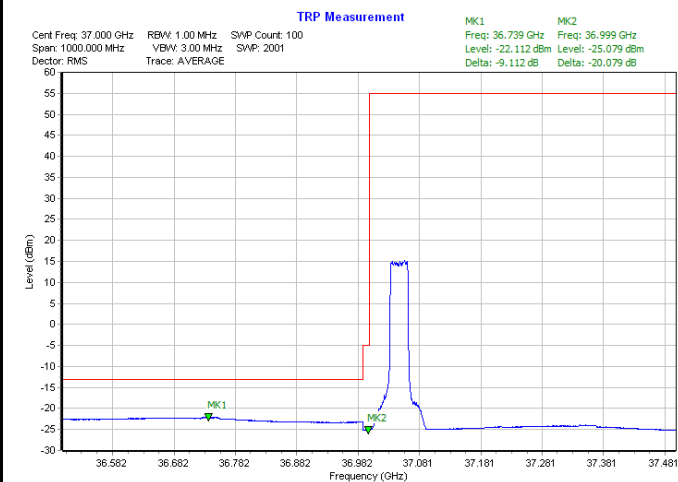
Highest Band Edge / Full RB (20/22)



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB (20/22)

Highest Band Edge / Full RB (20/22)



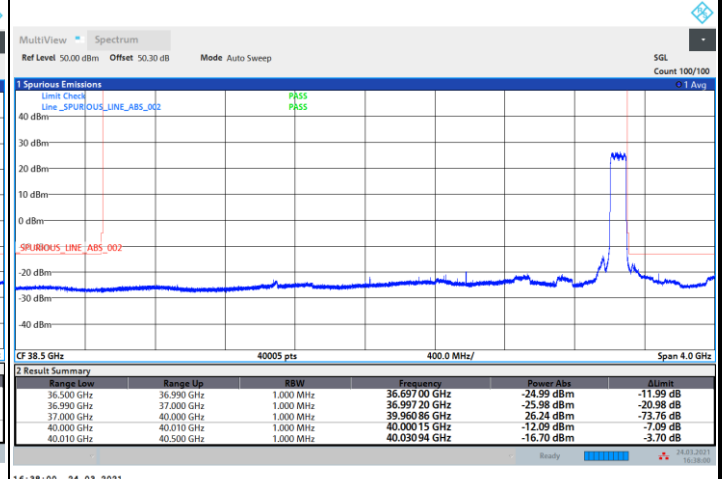
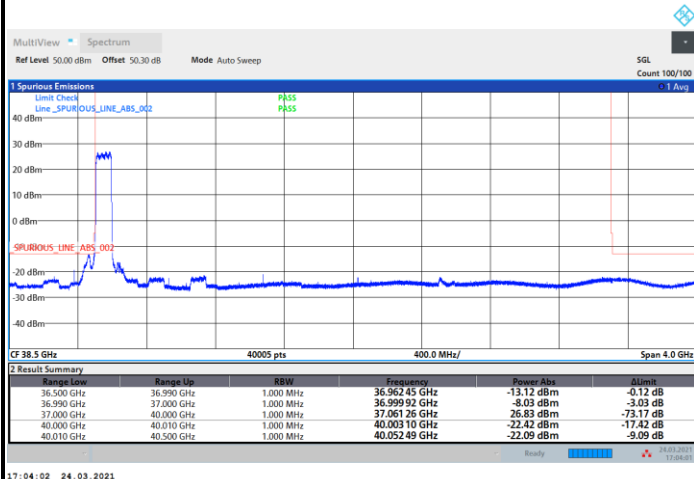


DFT-s-OFDM

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB (64/0)

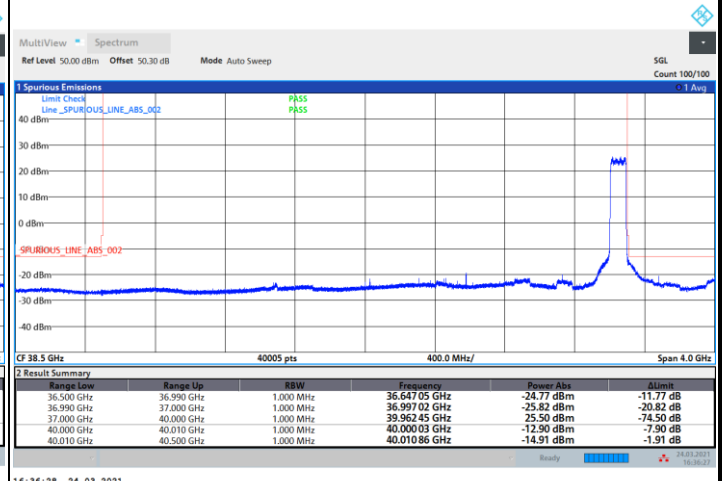
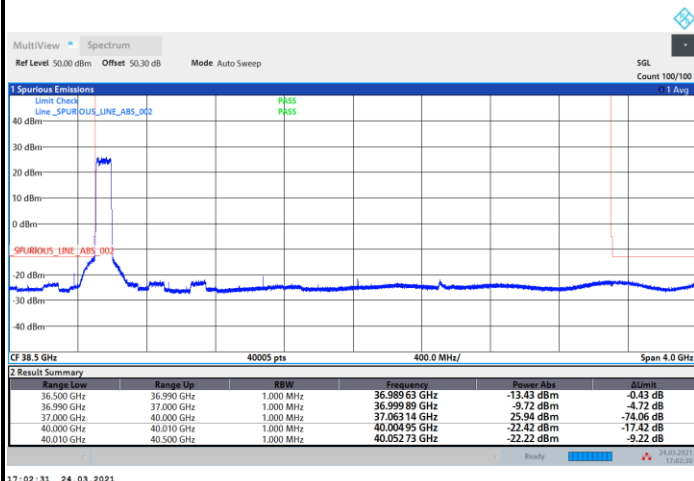
Lowest Band Edge / Full RB (64/0)



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB (64/0)

Lowest Band Edge / Full RB (64/0)





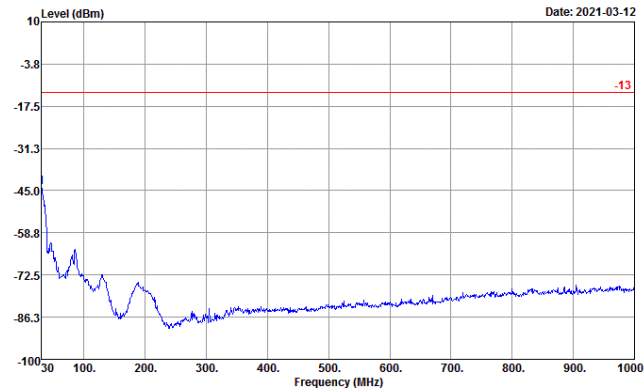
Spurious Emission

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

Only the noise floor is reported.

NR Band n260 (30MHz-1GHz)

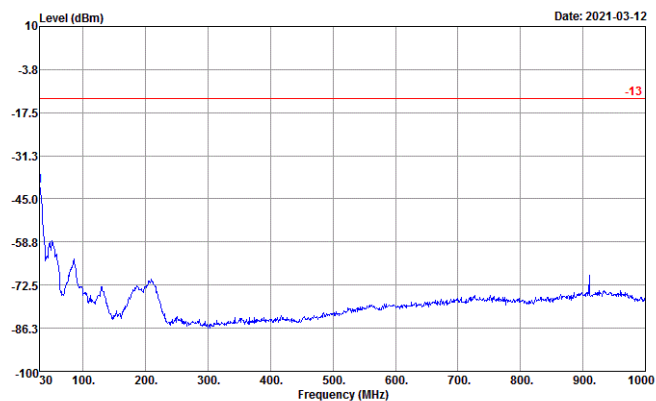
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 130414
: n260 4 Module 1CC

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	30.00	-44.03	-31.03 -13.00

Vertical



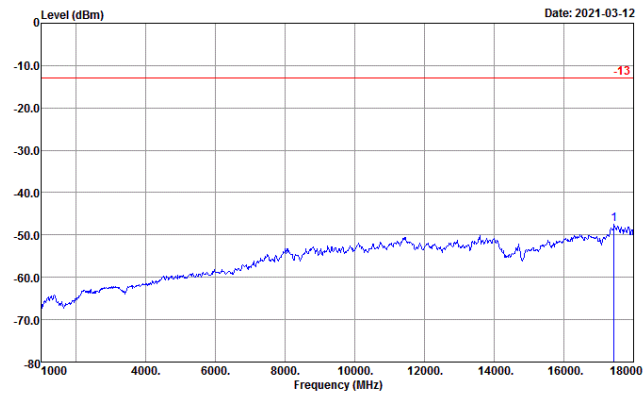
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 130414
: n260 4 Module 1CC

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	30.00	-40.91	-27.91 -13.00



NR Band n260 (1GHz-18GHz)

Horizontal

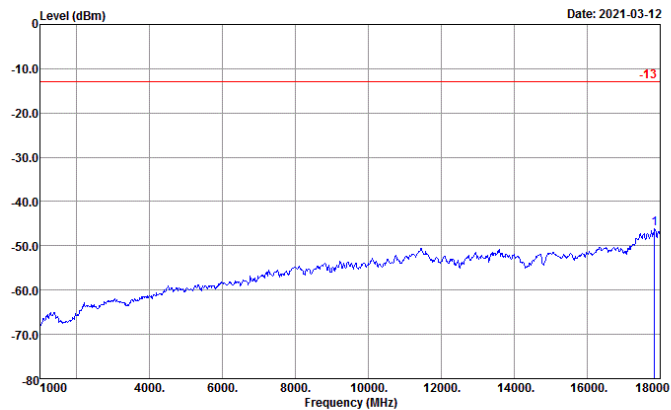


Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 130414

Over Limit
Line
dB dB

1 17439.00 -47.49 -34.49 -13.00

Vertical



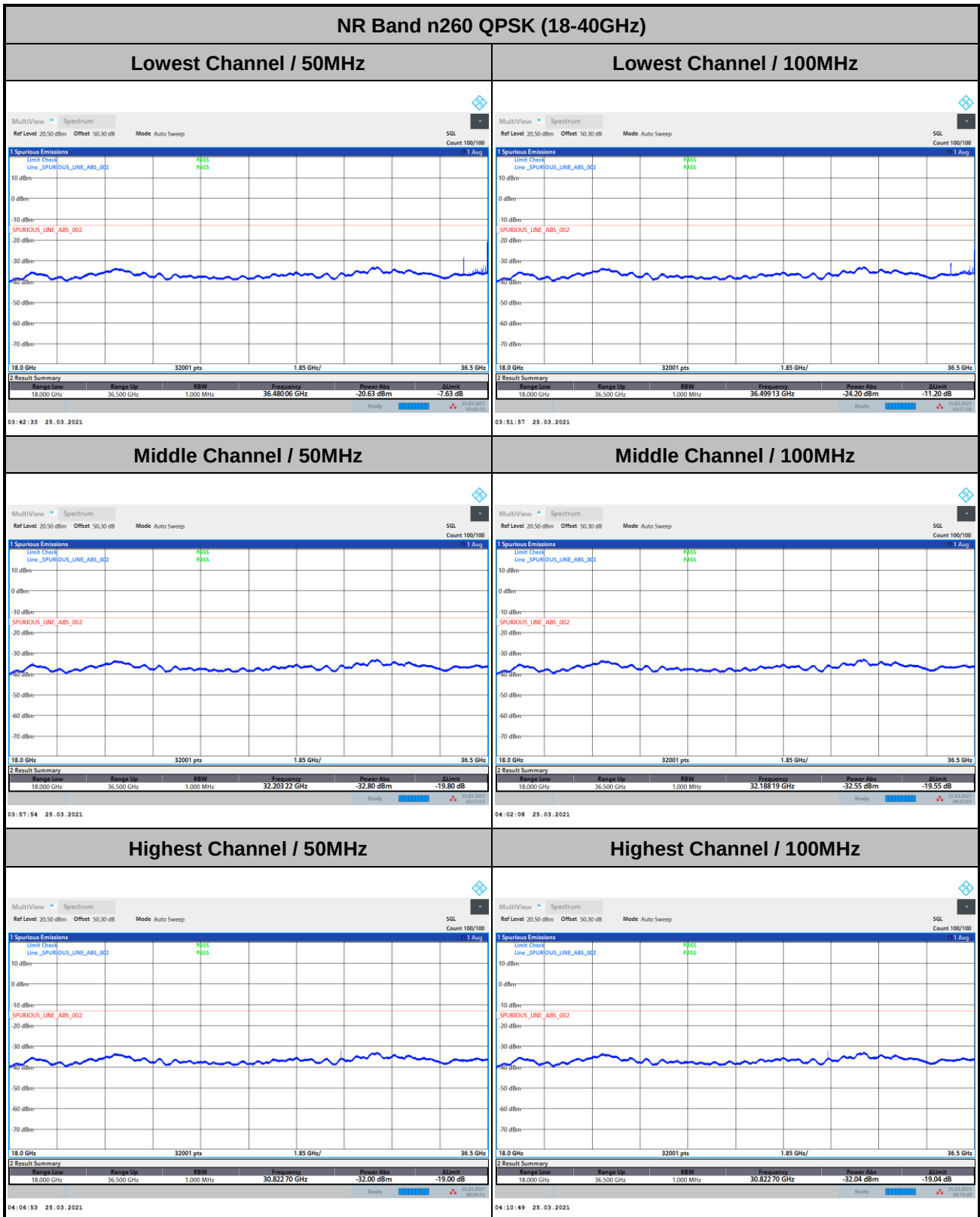
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 130414

Over Limit
Line
dB dB

1 17847.00 -46.12 -33.12 -13.00



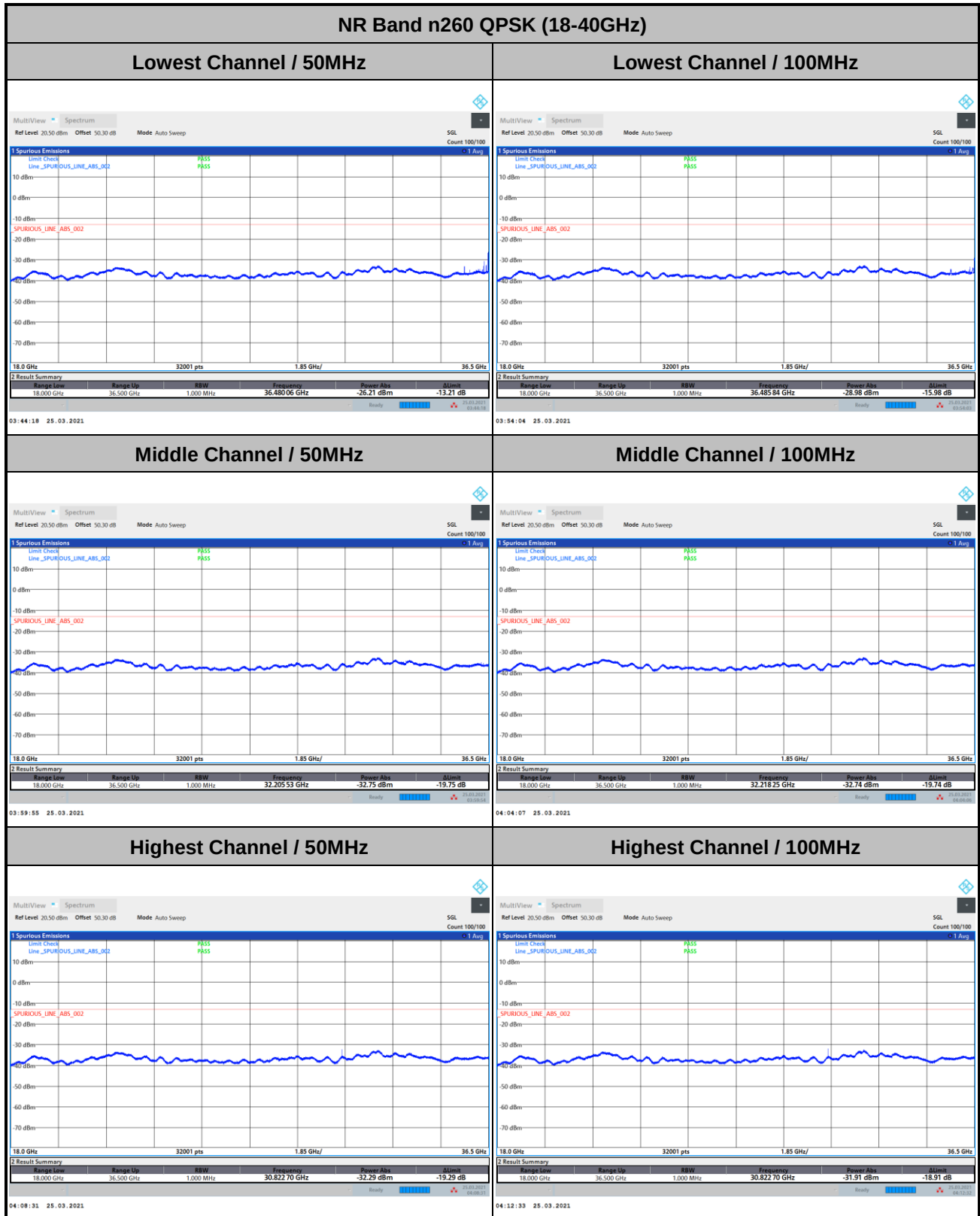
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM

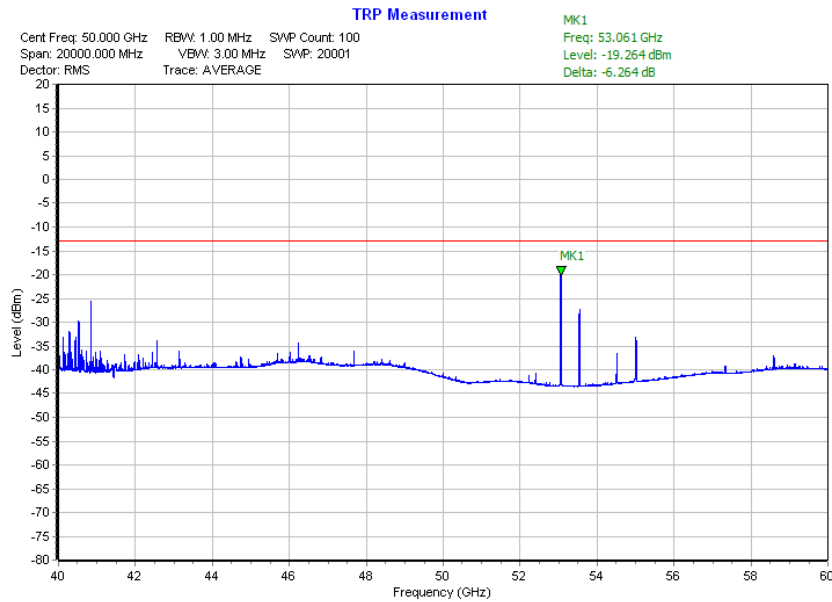
Remark: In band and out of band frequencies are omitted.



CP-OFDM



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

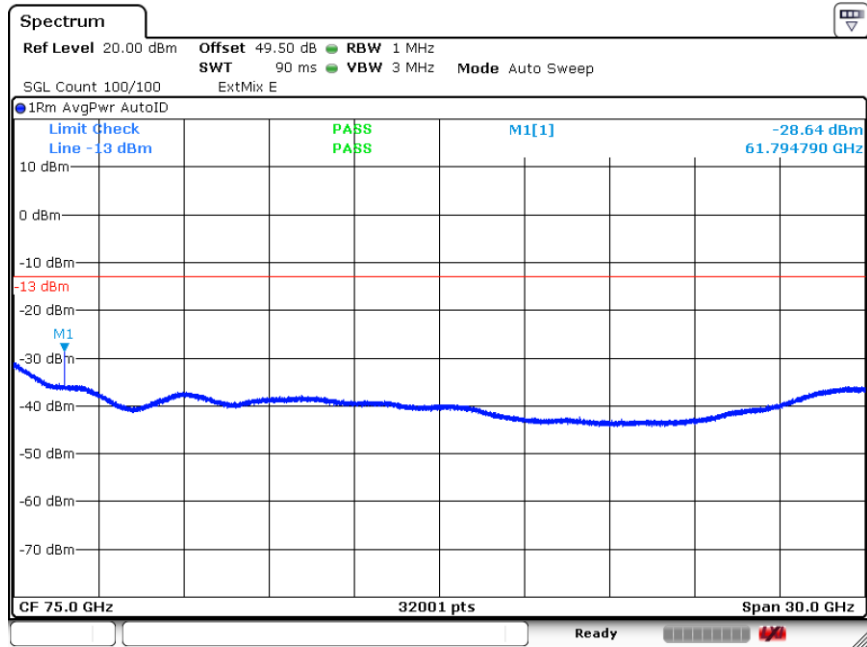
NR Band n260
(40GHz-60GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 0.34 + 107 + 20\log(1.2) - 104.8 = 46.4 \text{ (dB)} \end{aligned}$$



NR Band n260

(60GHz-90GHz)



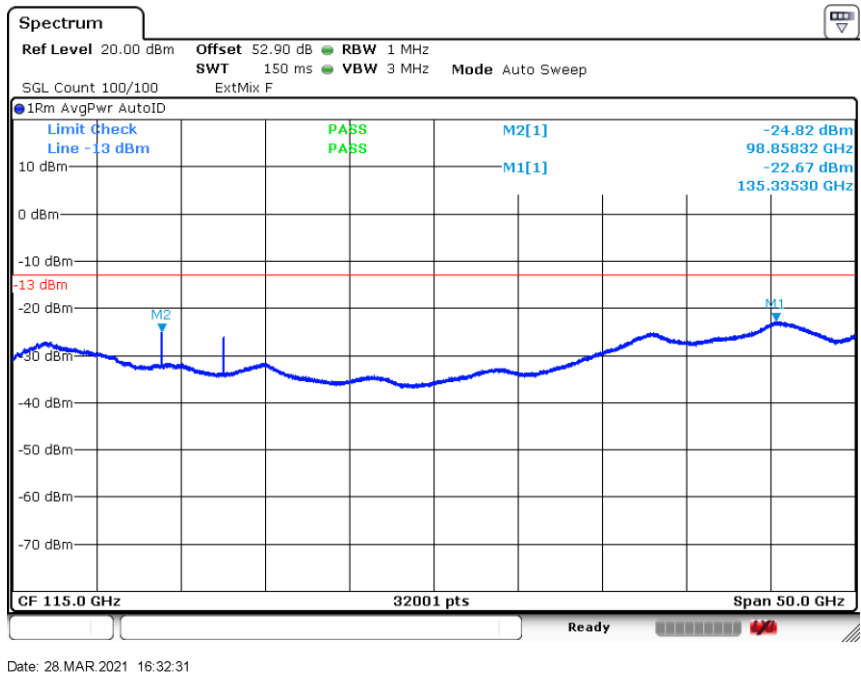
Date: 28.MAR.2021 16:39:01

$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 0.34 + 107 + 20\log(1.2) - 104.8 = 49.5 \text{ (dB)}\end{aligned}$$

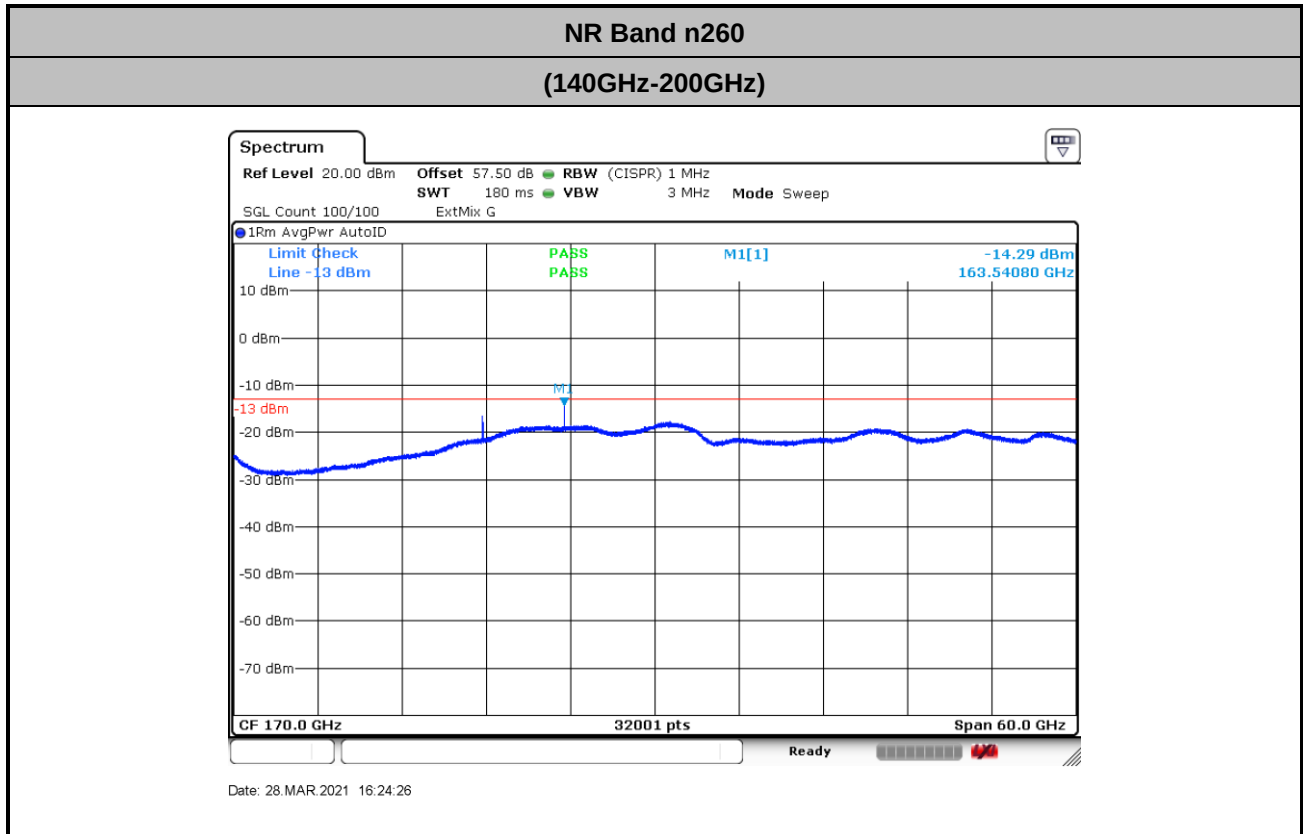


NR Band n260

(90GHz-140GHz)



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 48.8 + 0.34 + 107 + 20\log(1.2) - 104.8 = 52.9 \text{ (dB)}\end{aligned}$$



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8
 = 53.4 + 0.34 + 107 + 20log(1.2) – 104.8 = 57.5 (dB)

**Frequency Stability**

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	120	38.4998971	102.900	2.673	PASS
40	120	38.500024	-24.000	0.623	
30	120	38.5001219	-121.900	3.166	
20(Ref.)	120	38.5	0.000	0.000	
10	120	38.5001179	-117.900	3.062	
0	120	38.5002338	-233.800	6.073	
-10	120	38.5002408	-240.800	6.255	
-20	120	38.5002727	-272.700	7.083	
-30	120	38.5002757	-275.700	7.161	
20	102	38.500012	-12.000	0.312	
20	120	38.500005	-5.000	0.130	
20	138	38.500008	-8.000	0.208	

Note: The frequency fundamental emissions stay within the operation band.

Appendix B.2 Radiated Test: NR Band n260 (Beam ID: 63)

Occupied Bandwidth

Mode	DFT-s-OFDM NR Band n260 : 99%OBW(MHz)	
BW	50MHz	100MHz
Mod.	QPSK	QPSK
Lowest CH	45.29	90.47
Middle CH	45.43	90.24
Highest CH	45.28	90.14

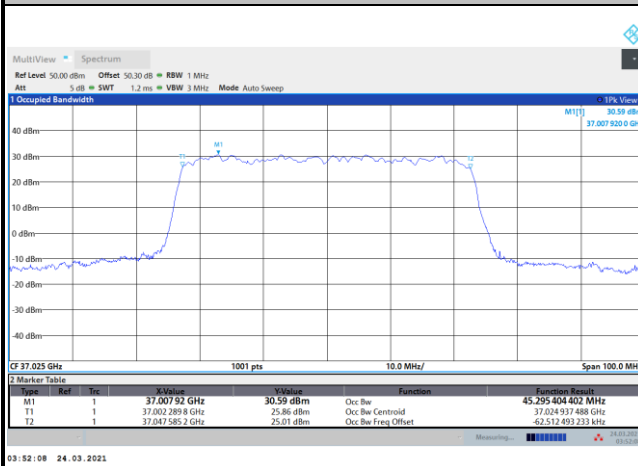
Mode	CP-OFDM NR Band n260 : 99%OBW(MHz)	
BW	50MHz	100MHz
Mod.	QPSK	QPSK
Lowest CH	45.10	92.71
Middle CH	45.43	92.41
Highest CH	45.15	92.62



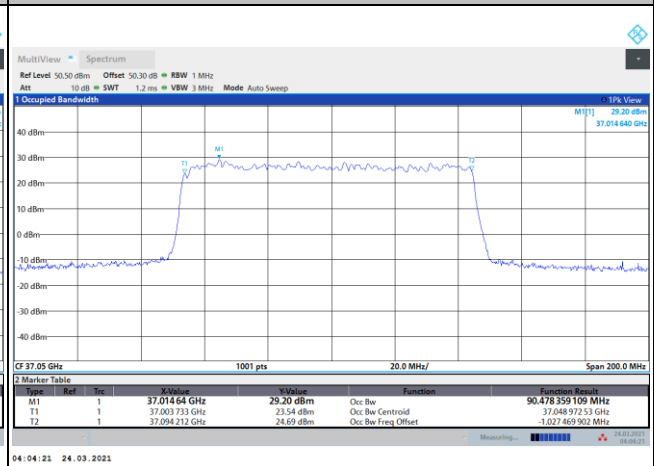
DFT-s-OFDM

NR Band n260

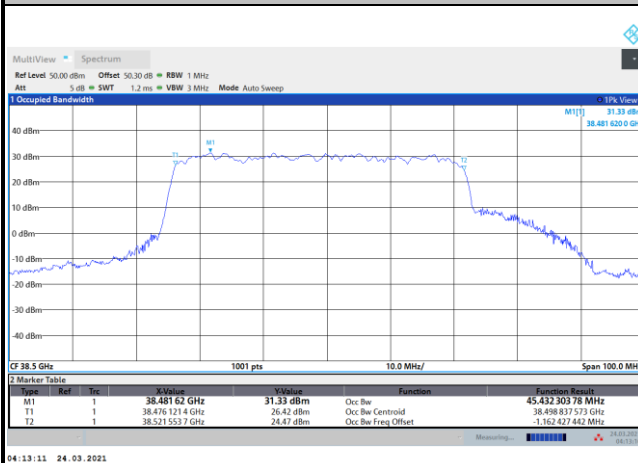
Lowest Channel / 50MHz / QPSK



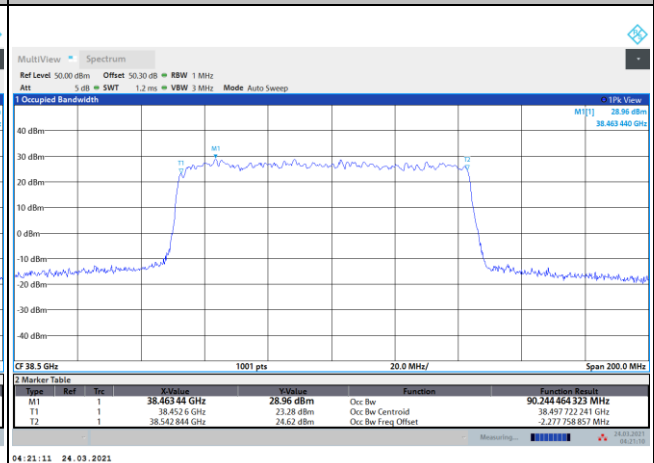
Lowest Channel / 100MHz / QPSK



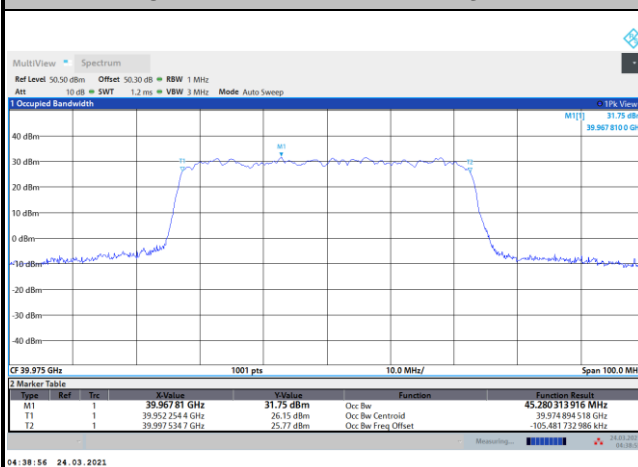
Middle Channel / 50MHz / QPSK



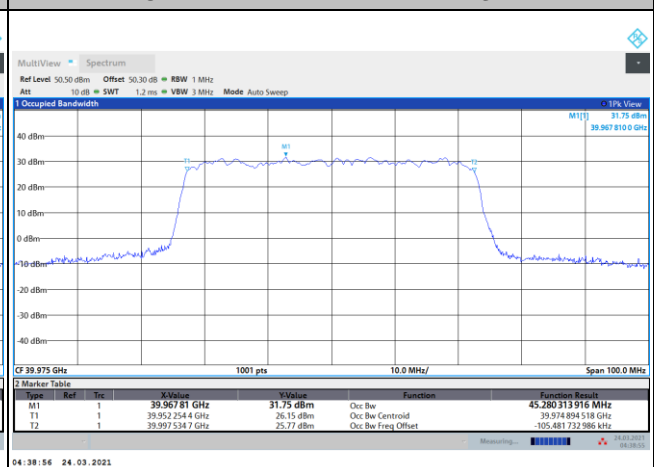
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

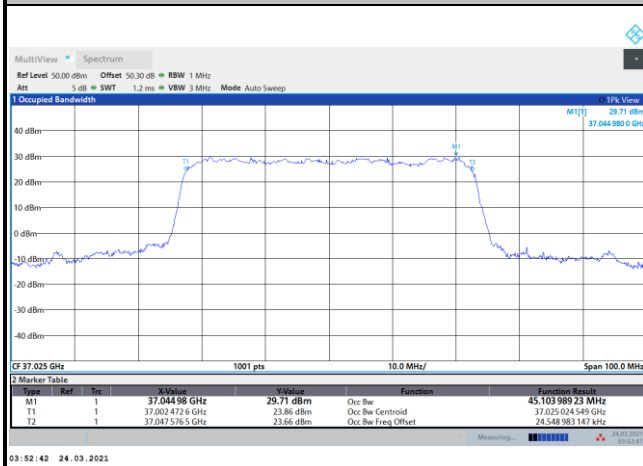




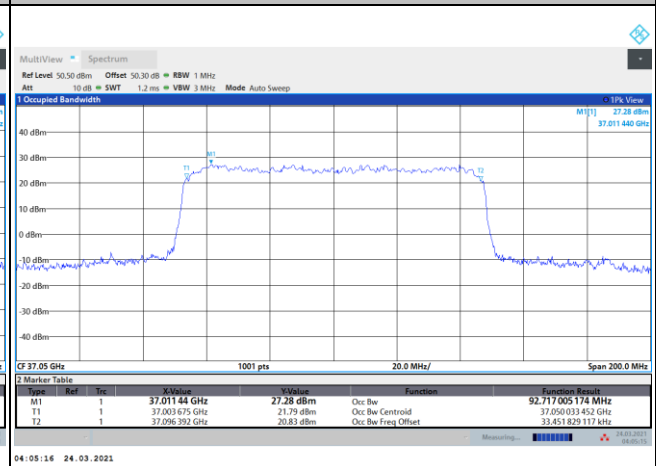
CP-OFDM

NR Band n260

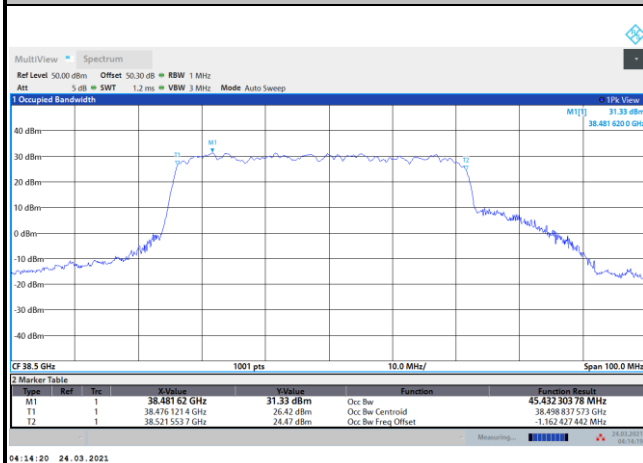
Lowest Channel / 50MHz / QPSK



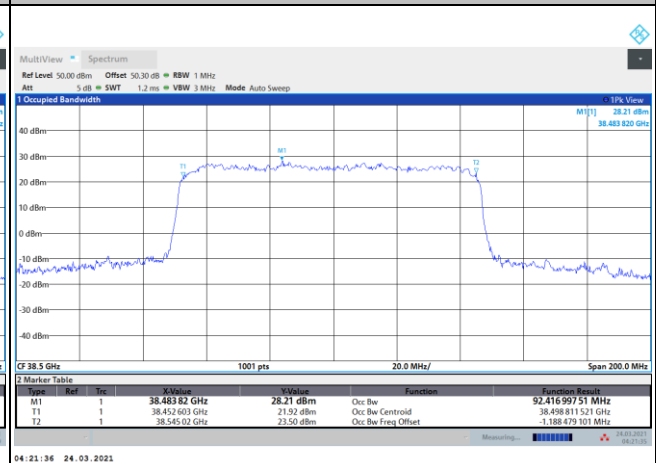
Lowest Channel / 100MHz / QPSK



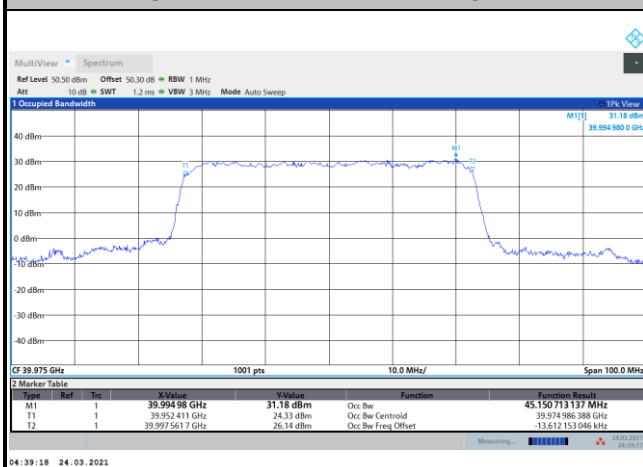
Middle Channel / 50MHz / QPSK



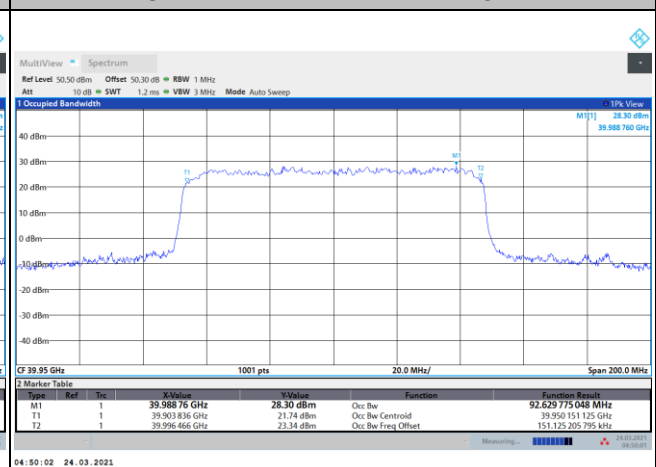
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK



**Radiated Out of Band Emissions****Test Result:**

Mode		DFT-s-OFDM NR Band n260							
Channel	BW (MHz)	Modulation	RB Size/ allocation	0 ~ 10 %OB Limit (dBm/MHz)	0 ~ 10 %OB PSD (dBm/MHz)	Result	>10%OB Limit (dBm/MHz)	>10%OB PSD (dBm/MHz)	Result
Low	50	QPSK	32/0	-5	-9.03	Pass	-13	-14.43	Pass
Low	50	BPSK	32/0	-5	-9.10	Pass	-13	-15.81	Pass
Low	50	QPSK	8/0	-5	-22.93	Pass	-13	-22.26	Pass
Low	50	QPSK	10/11	-5	-12.54	Pass	-13	-14.48	Pass
Low	50	BPSK	10/11	-5	-15.48	Pass	-13	-18.97	Pass
High	50	QPSK	32/0	-5	-11.20	Pass	-13	-13.60	Pass
High	50	BPSK	32/0	-5	-10.14	Pass	-13	-15.39	Pass
High	50	QPSK	8/24	-5	-19.57	Pass	-13	-19.62	Pass
High	50	QPSK	10/11	-5	-14.23	Pass	-13	-14.52	Pass
High	50	BPSK	10/11	-5	-16.99	Pass	-13	-17.55	Pass
Low	100	QPSK	64/0	-5	-13.03	Pass	-13	-16.46	Pass
Low	100	BPSK	64/0	-5	-12.02	Pass	-13	-17.36	Pass
Low	100	QPSK	8/0	-5	-23.57	Pass	-13	-22.28	Pass
Low	100	QPSK	20/22	-5	-16.44	Pass	-13	-17.15	Pass
Low	100	BPSK	20/22	-5	-18.62	Pass	-13	-19.63	Pass
High	100	QPSK	64/0	-5	-14.83	Pass	-13	-16.54	Pass
High	100	BPSK	64/0	-5	-14.80	Pass	-13	-19.06	Pass
High	100	QPSK	8/58	-5	-20.94	Pass	-13	-19.90	Pass
High	100	QPSK	20/22	-5	-16.37	Pass	-13	-16.35	Pass
High	100	BPSK	20/22	-5	-18.78	Pass	-13	-16.12	Pass

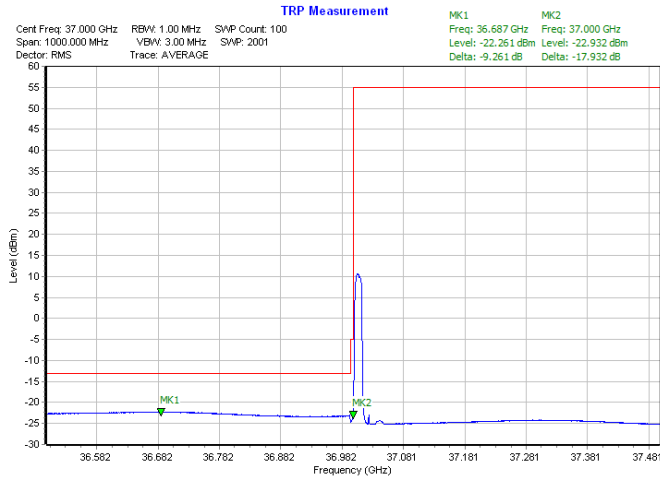
Note: Both DFT-s-OFDM and CP-OFDM waveforms are evaluated, and the DFT-s-OFDM is the worst case.



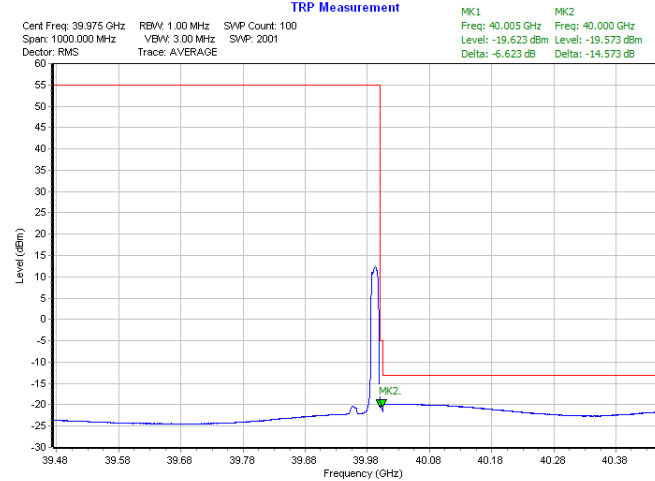
DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 8 RB (8/0)

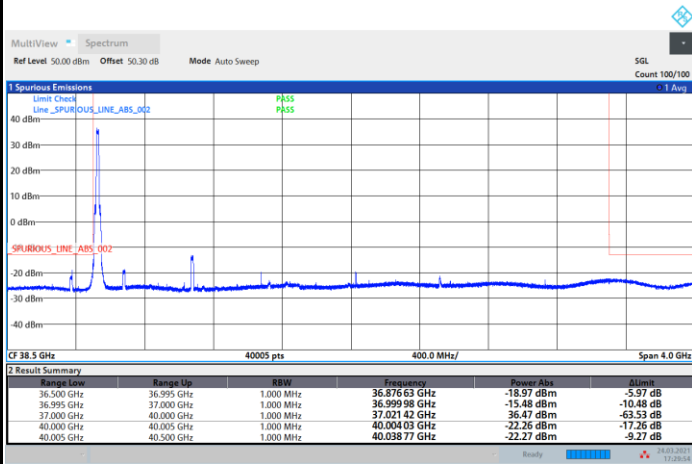


Highest Band Edge / 8 RB (8/24)



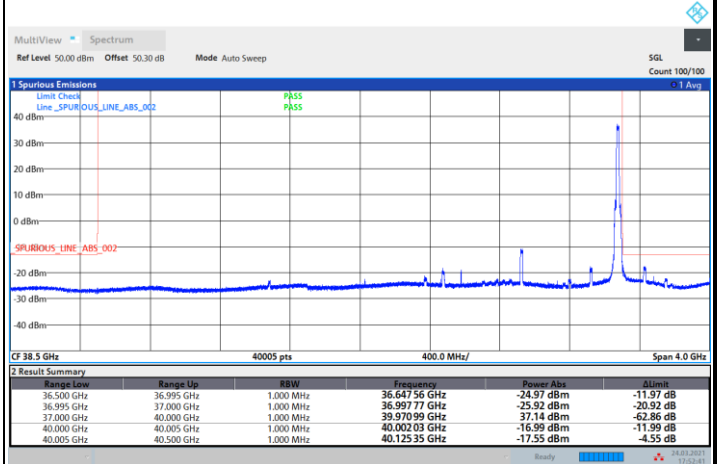
NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB (10/11)



17:29:54 24.03.2021

Highest Band Edge / Full RB (10/11)



17:52:42 24.03.2021

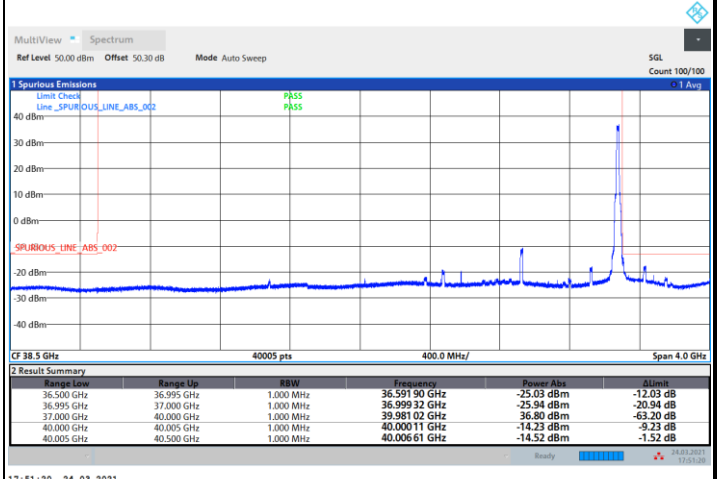
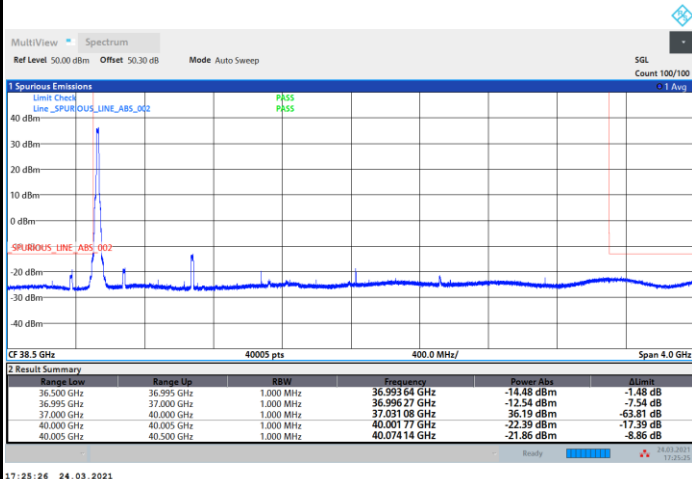


DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB (10/11)

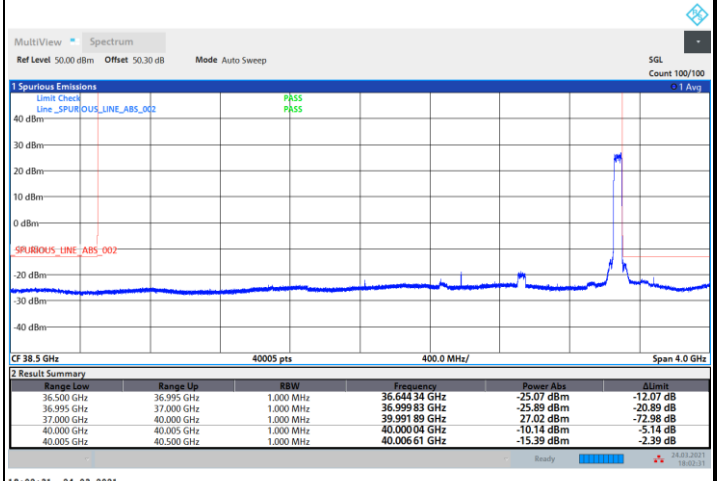
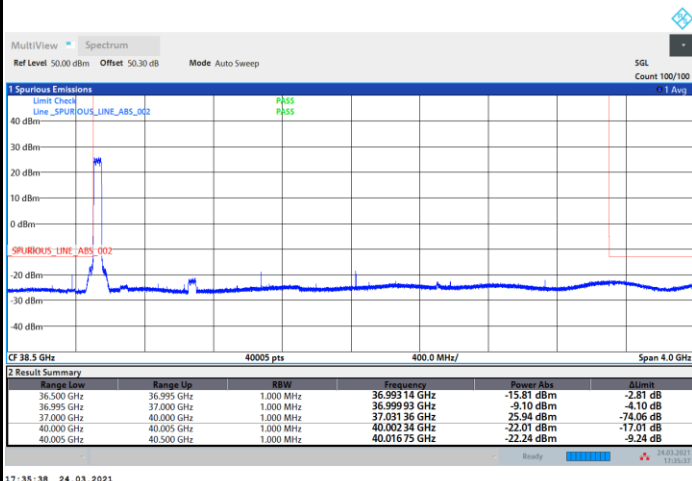
Highest Band Edge / Full RB (10/11)



NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB (32/0)

Highest Band Edge / Full RB (32/0)



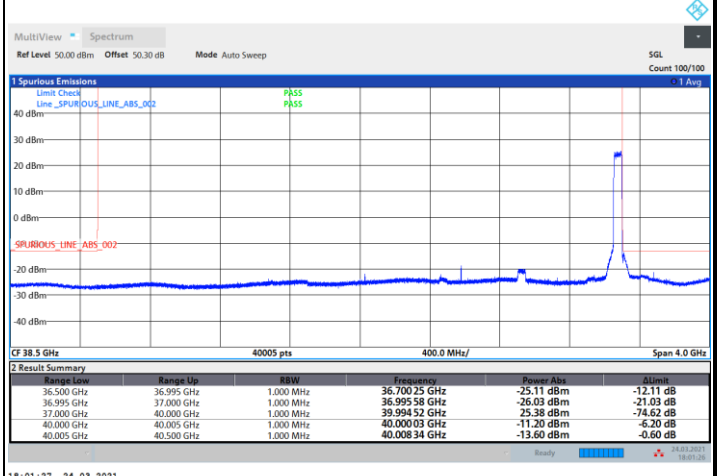
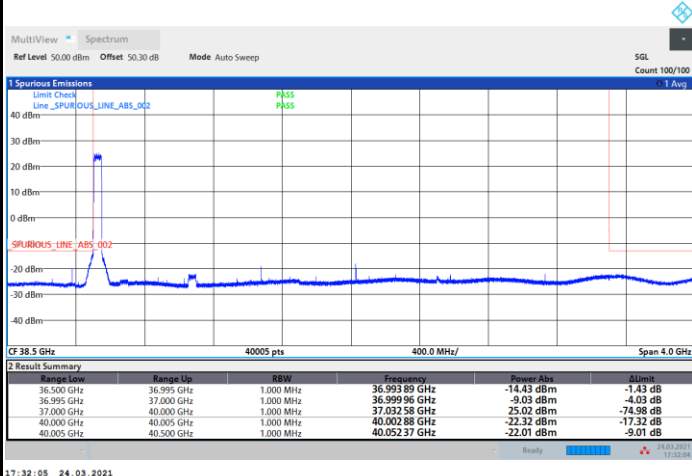


DFT-s-OFDM

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB (32/0)

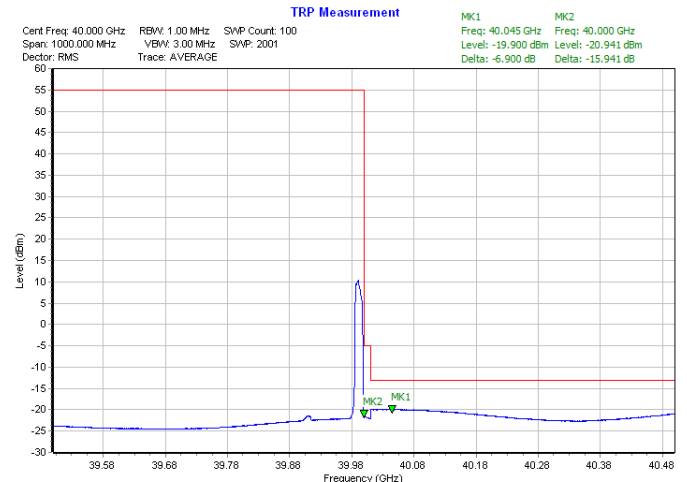
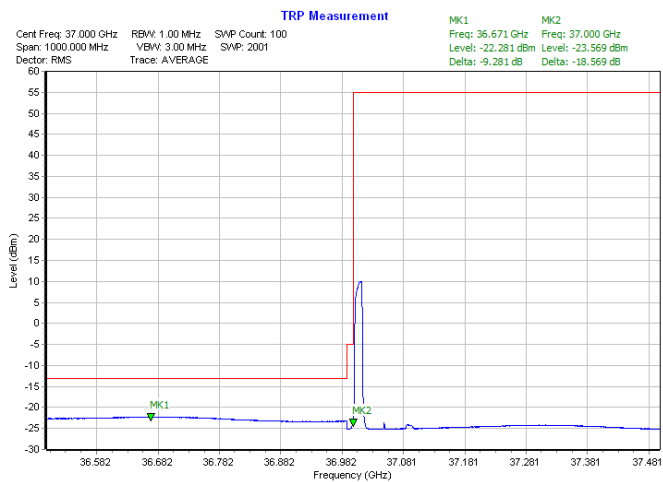
Highest Band Edge / Full RB (32/0)



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 8 RB (8/0)

Highest Band Edge / 8 RB (8/58)



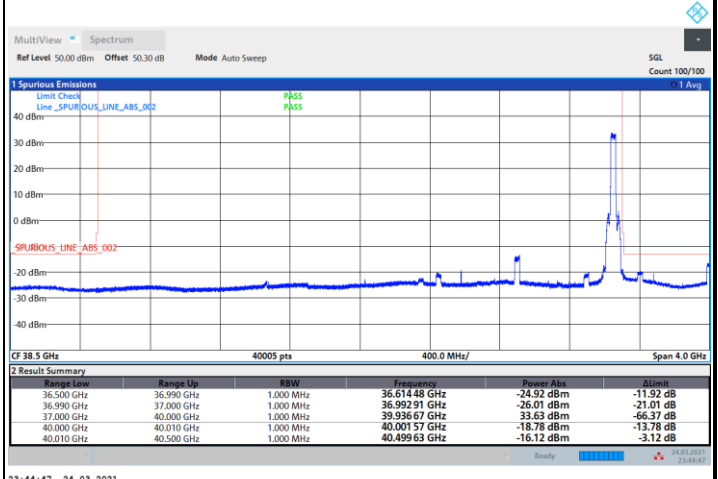
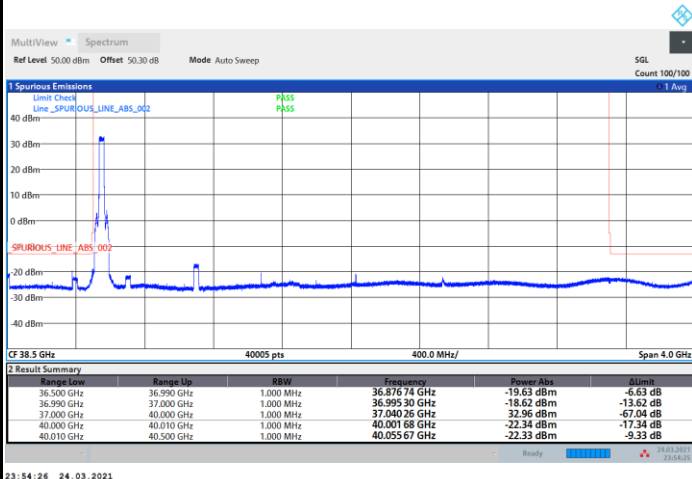


DFT-s-OFDM

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB (20/22)

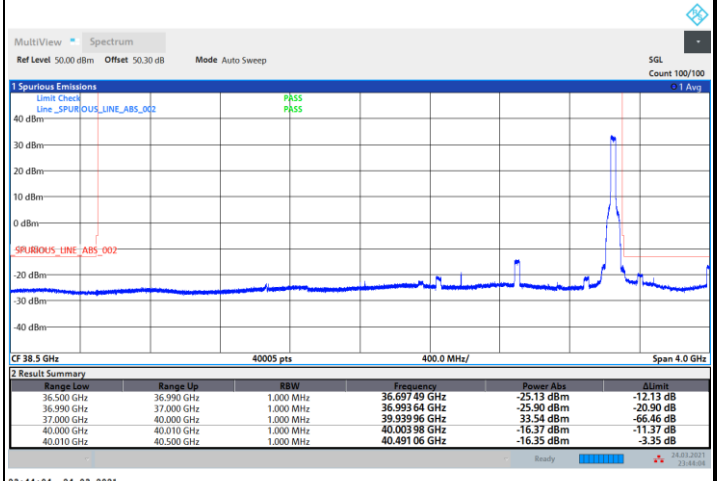
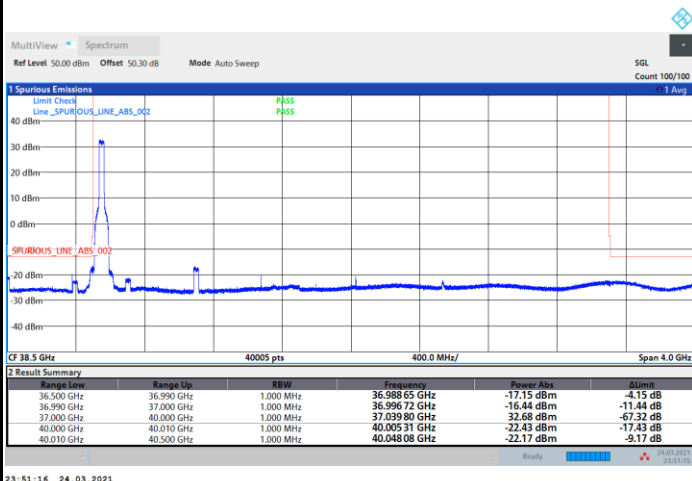
Highest Band Edge / Full RB (20/22)



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB (20/22)

Highest Band Edge / Full RB (20/22)



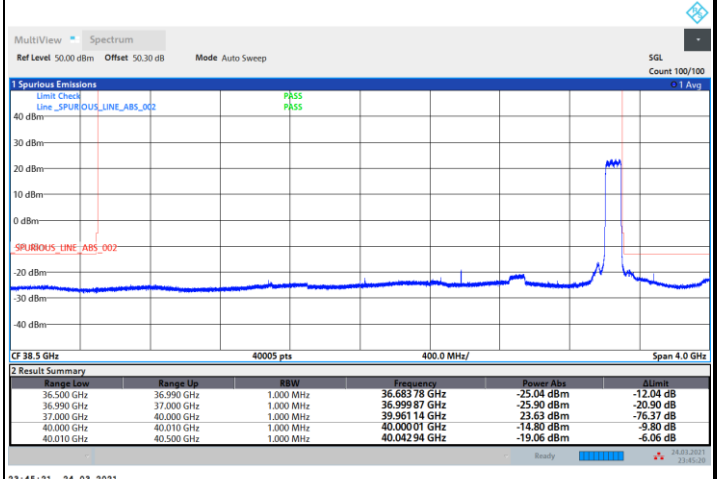
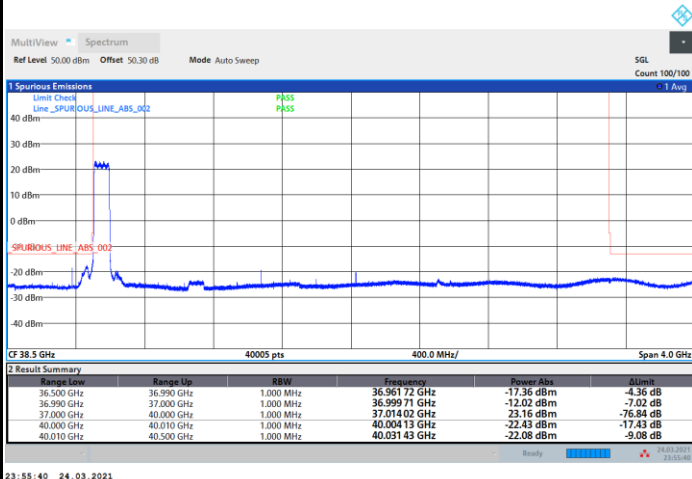


DFT-s-OFDM

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB (64/0)

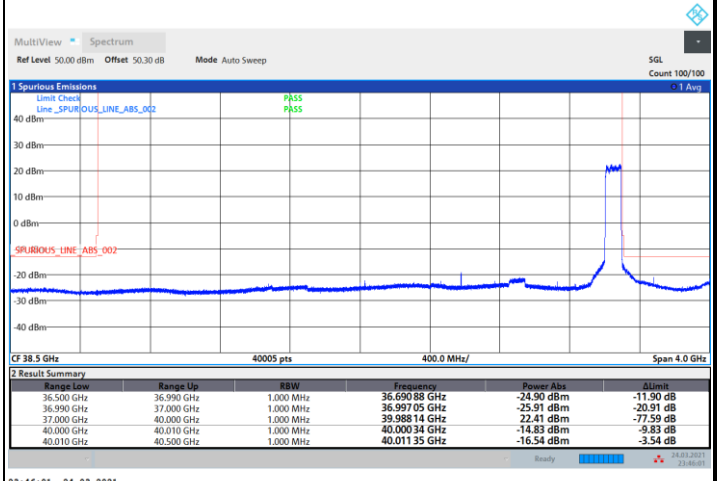
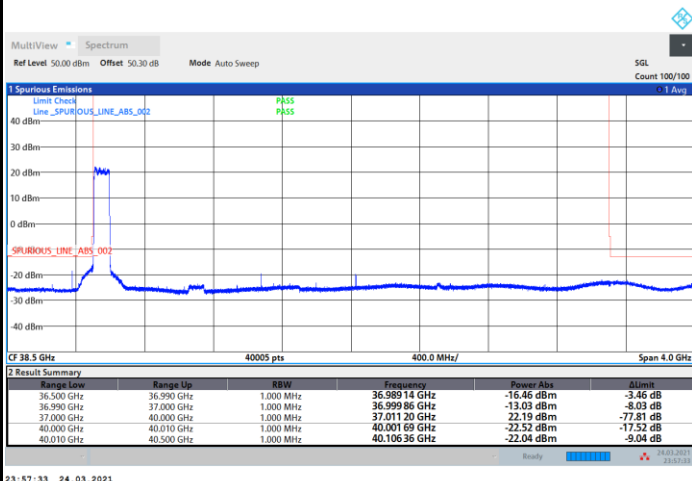
Lowest Band Edge / Full RB (64/0)



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB (64/0)

Lowest Band Edge / Full RB (64/0)





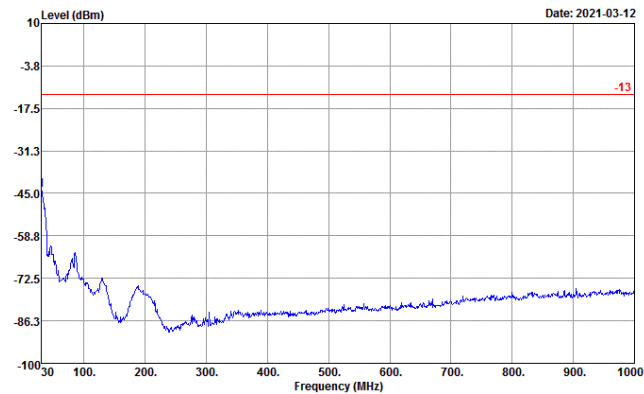
Spurious Emission

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

Only the noise floor is reported.

NR Band n260 (30MHz-1GHz)

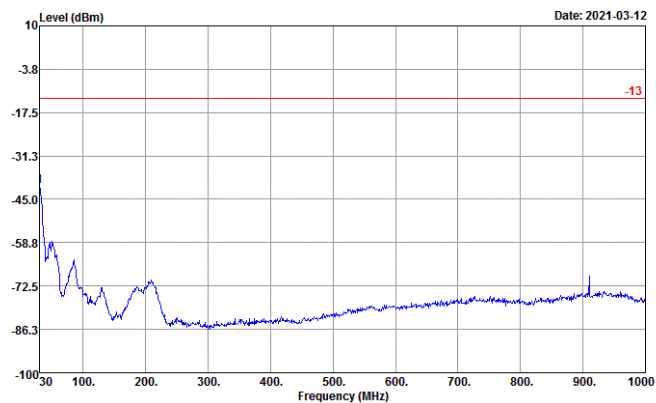
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : I30414
: n260 4 Module 1CC

Freq	Level	Over	Limit
MHz	dBm	Limit	Line
1	30.00	-44.03	-31.03 -13.00

Vertical



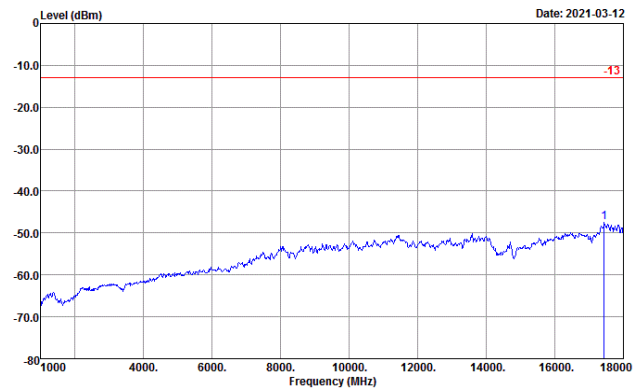
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : I30414
: n260 4 Module 1CC

Freq	Level	Over	Limit
MHz	dBm	Limit	Line
1	30.00	-40.91	-27.91 -13.00



NR Band n260 (1GHz-18GHz)

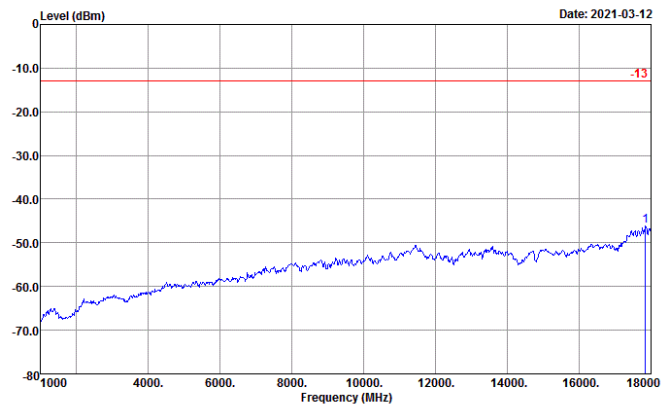
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 130414
: n260 4 Module ICC

	Freq	Level	Over	Limit
	MHz	dBm	Limit	Line
			dB	dBm
1	17439.00	-47.49	-34.49	-13.00

Vertical



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 130414
: n260 4 Module ICC

	Freq	Level	Over	Limit
	MHz	dBm	Limit	Line
			dB	dBm
1	17847.00	-46.12	-33.12	-13.00