FCC RADIO TEST REPORT

FCC ID	:	**2ABOF-G1-BN3ASI001**
Equipment	:	**Base Node (BN)**
Brand Name	:	**Tarana**
Model Name	:	**G1-BN3ASI001**
Marketing Name	:	**G1**
Applicant	:	**Tarana Wireless** **590 Alder Drive, Milpitas, CA 95035**
Manufacturer	:	**Tarana Wireless** **590 Alder Drive, Milpitas, CA 95035**
Standard	:	**FCC 47 CFR Part 2, 96**

The product was received on Apr. 23, 2021 and testing was started from Apr. 28, 2021 and completed on Jul. 19, 2021. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E 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 (USA) Inc., the test report shall not be reproduced except in full.

Neil Kao

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issued Date
FG210405002	01	Initial issue of report	Jul. 26, 2021
FG210405002	02	1. Revise device information 2. Add test description for multiple transmitters 3. Add some more notes to radiated and conducted test procedures 4. Add detailed antenna information	Aug. 06, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
		Power Density	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 0.11 dB at 7120.000 MHz

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.

1 General Description

1.1 Product Feature of Equipment Under Test

Product Specification subjective to this standard	
Antenna Type	Fixed Internal Antenna
Antenna Gain	13 dBi

Remark:

1. The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The manufacturer declares that the proprietary test commands to configure EUT transmitting on QPSK.
3. The RF conducted output power level across each chain is identical declared by the manufacturer.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International (USA) Inc.	
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300	
Test Site No.	**Sporton Site No.**	
	TH01-CA	03CH01-CA

1.4 Applied Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X Plane as worst plane.

<Single Carrier (SC) Intra Band>

Test Items	Frequency (MHz)	Bandwidth (MHz)				Test Channel		
		10	20	30	40	L	M	H
Max. Output Power	3500~3700	v	v	v	v	v	v	v
Peak EIRP Density	3500~3700	v	v	v	v	v	v	v
26dB and 99% Bandwidth	3500~3700	v	v	v	v		v	
Conducted Band Edge	3500~3700	v	v	v	v	v	v	v
Peak-to-Average Ratio	3500~3700	v					v	
Conducted Spurious Emission	3500~3700	v	v	v	v	v	v	v
E.I.R.P.	3500~3700	v	v	v	v	v	v	v
Radiated Spurious Emission	3500~3700	v	v	v	v	v	v	v
Remark	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported.							

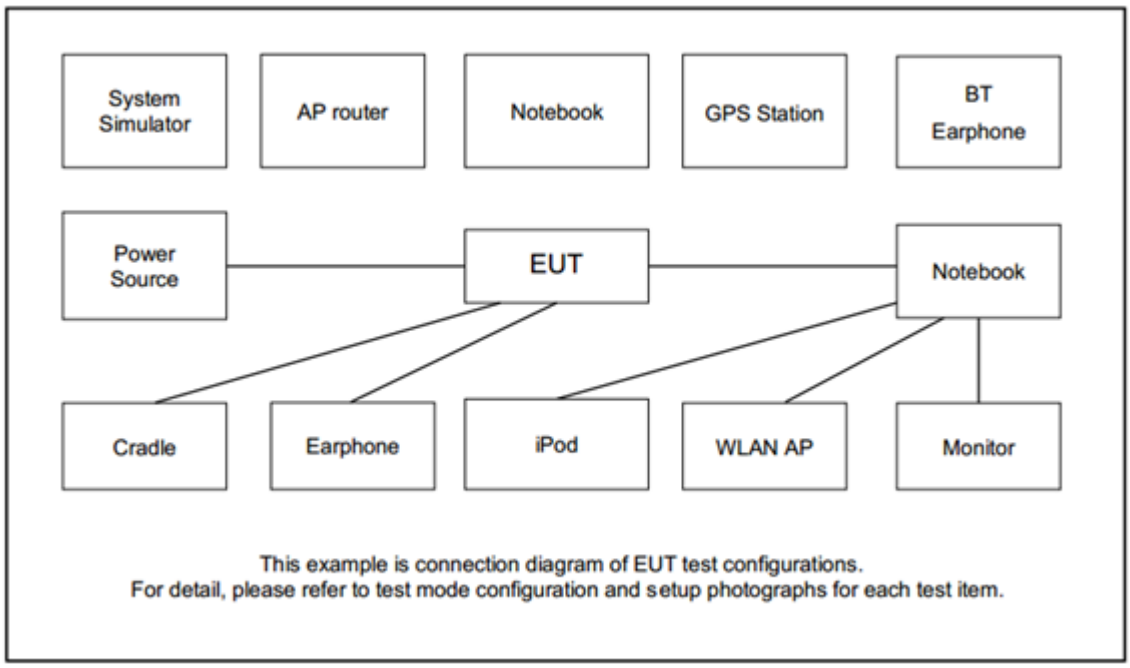
<Multi Carrier (MC) Intra Band Contiguous>

Test Items	Freq. (MHz)	Bandwidth (MHz)				Test Channel		
		20+20	20+40	40+20	40+40	L	M	H
Max. Output Power	3500~3700	v	v	v	v	v	v	v
Peak EIRP Density	3500~3700	v	v	v	v	v	v	v
26dB and 99% Bandwidth	3500~3700	v	v	v	v		v	
Conducted Band Edge	3500~3700	v	v	v	v	v	v	v
Conducted Spurious Emission	3500~3700	v	v	v	v	v	v	v
E.I.R.P.	3500~3700	v	v	v	v	v	v	v
Radiated Spurious Emission Remark	3500~3700	v	v	v	v	v	v	v
Remark	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported.							

<Multi Carrier (MC) Intra Band Non-Contiguous>

Test Items	Freq. (MHz)	Bandwidth (MHz)				Test Channel		
		20+20	20+40	40+20	40+40	L	M	H
Max. Output Power	3500~3700	v	v	v	v	v		v
Peak EIRP Density	3500~3700	v	v	v	v	v		v
26dB and 99% Bandwidth	3500~3700	v	v	v	v	v		v
Conducted Band Edge	3500~3700	v	v	v	v	v		v
Conducted Spurious Emission	3500~3700	v	v	v	v	v		v
E.I.R.P.	3500~3700	v	v	v	v	v		v
Radiated Spurious Emission Remark	3500~3700	v	v	v	v	v		v
Remark	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported.							

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.	Adapter	MW	HEP-480-54A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

Single Carrier Frequency List				
BW [MHz]	Frequency(MHz)	Lowest	Middle	Highest
40	Frequency	3570	3625	3680
30	Frequency	3565	3625	3685
20	Frequency	3560	3625	3690
10	Frequency	3555	3625	3695

Multi Carrier (Contiguous) Frequency List					
BW [MHz]	Frequency(MHz)		Lowest	Middle	Highest
40 + 40	PCC	Frequency	3570	3605	3640
	SCC	Frequency	3610	3645	3680
40 + 20	PCC	Frequency	3570	3615	3660
	SCC	Frequency	3600	3645	3690
20 + 40	PCC	Frequency	3560	3605	3650
	SCC	Frequency	3590	3635	3680
20 + 20	PCC	Frequency	3560	3615	3670
	SCC	Frequency	3580	3635	3690

Multi Carrier (Non-Contiguous) Frequency List				
BW [MHz]	Frequency(MHz)	Lowest (PCC)	-	Highest (SCC)
40 + 40	Frequency	3570	-	3680
40 + 20	Frequency	3570	-	3690
20 + 40	Frequency	3560	-	3680
20 + 20	Frequency	3560	-	3690

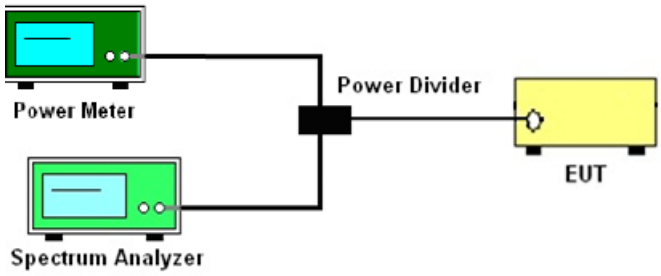
3 Conducted Test Items

3.1 Measuring Instruments

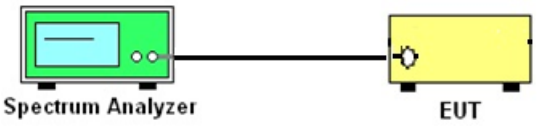
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Power Density, Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

Test commands are used to configure EUT to transmit. The parameters pre-set to force the EUT to always transmit at the maximum output power. The power measured at one of the output terminals of the transmitter is reported in this report based on the manufacturer's declaration that conducted power is identical across all the output terminals.

3.2.2 Test Procedures

1. The transmitting port is connected to a spectrum analyzer and a power meter through a power divider.
2. Enter test commands to force the EUT to transmit the maximum output power.
3. Select the lowest, middle, and highest channels for each band of modulation.
4. The maximum output power transmitted is measured and read by the power meter.
5. The MIMO calculation method can be referred to section 3.9 of this report.

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum via a RF cable.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio

3.4 EIRP and Power Density

3.4.1 Description of the EIRP and Power Density Measurement

The EIRP transmitters must not exceed 47 dBm /10 megahertz

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Category B CBSD	47	37

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW ≥ 3 × RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. The MIMO Calculation method can be referred to section 3.9 of this report.
11. Determine the EIRP by adding the effective antenna gain to the adjusted power level

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

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.

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

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
   (this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed −25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to spectrum analyzer via a RF cable.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Follow FCC KDB 662911 D01 Multiple Transmitter Output v02r01to do MIMO calculation.
   Method (iii): Measure and add 10 log (N_{ANT}) dB, the factor should be added to spectrum offset. There are a total of 16 antenna ports which are connected to 8 vertical and 8 horizontal antennas.
   MIMO Factor is 10*log(16) = 12.04 dB

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

Emission and interference limits: the device satisfies the emission limits specified in Section FCC Part 96.41 e) 1) i) & e) 2) at the lowest and highest edges of the band, and in the middle of the band.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to spectrum analyzer via a RF cable.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency is measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer to be RMS detector.
7. Follow FCC KDB 662911 D01 Multiple Transmitter Output v02r01to do MIMO calculation.
   Method (iii): Measure and add 10 log (N_{ANT}) dB, the factor should be added to spectrum offset. There are a total of 16 antenna ports which are connected to 8 vertical and 8 horizontal antennas.
   MIMO Factor is 10*log(16) = 12.04 dB
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is −40dBm/MHz.

3.8 Frequency Stability

3.8.1 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. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the spectrum analyzer.
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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
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.

3.9 Antenna Information

3.9.1 Antenna Directional Gain

The device can support MIMO with antenna.

There are a total of 16 antenna ports which are connected to 8 vertical and 8 horizontal antennas.

The manufacturer declares that it always transmits 6 spatial streams jointly across both polarizations.

MIMO calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 “Measure and add 10 log(NANT) dB”. For the MIMO Factor in this report is 10*log(16) = 12.04 dB

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

Array Gain = 10 log(N_{ANT} = 8 /N_{SS}= 6) = 1.25 dB , where the lowest possible N_{SS} is 6 .

Directional gain = Antenna gain + directionality gain = 12 + 10log (N_{ANT}/N_{SS} = 8/6)

= 13+ 1.25 = 14.25 dBi

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

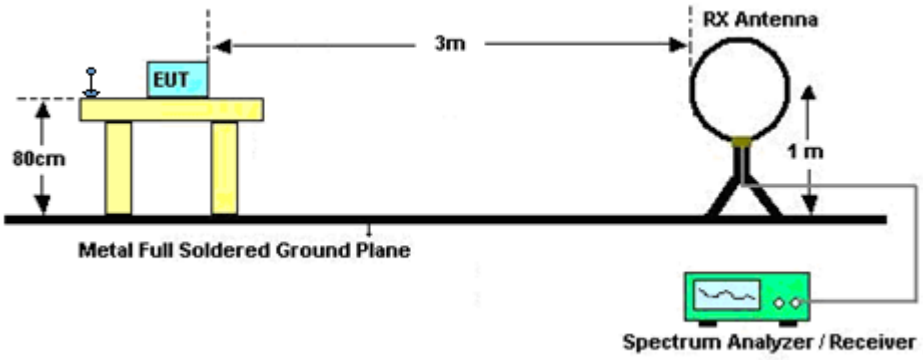
4 Radiated Test Items

4.1 Measuring Instruments

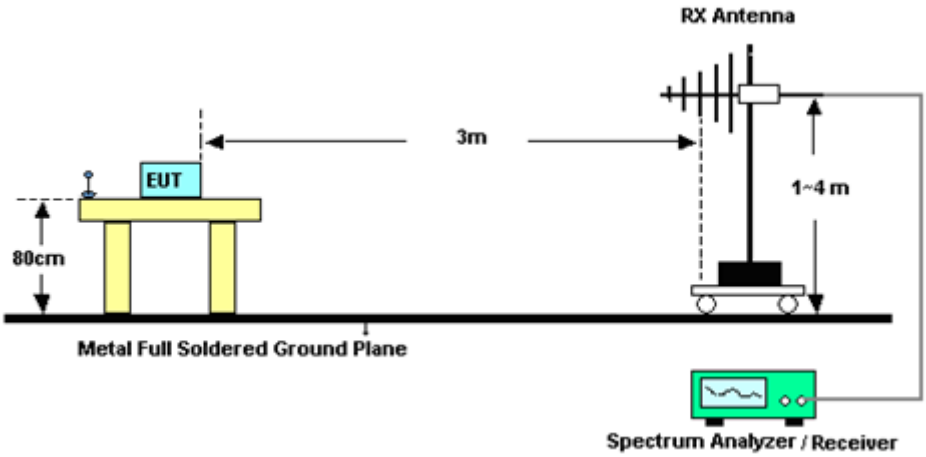
See list of measuring instruments of this test report.

4.2 Test Setup

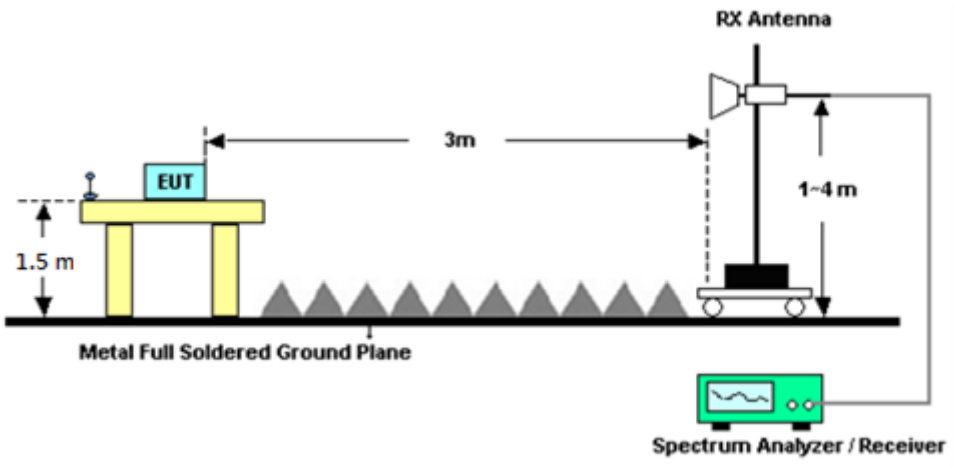
For radiated test below 30MHz



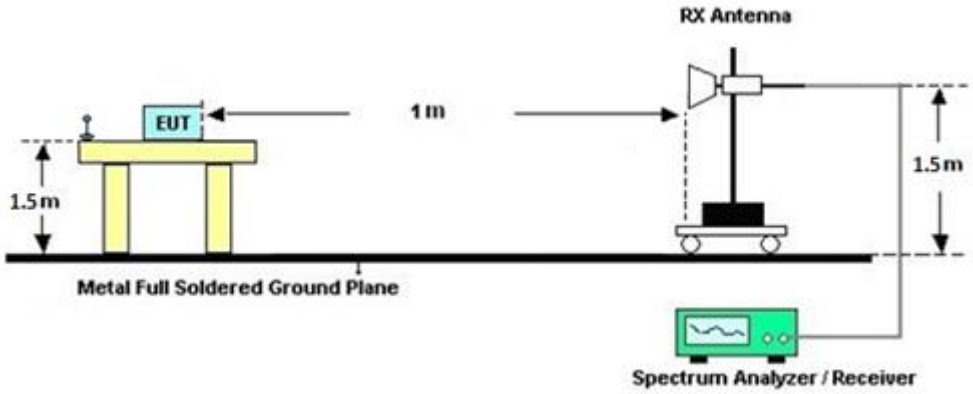
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz .

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

All the 16 antennas are activated to transmit the maximum power simultaneously during the test.

1. The EUT is placed on a turntable of 0.8 meter height from the ground for frequency below 1GHz, whereas 1.5 meter for frequency above 1GHz.
2. The EUT is settled 3 meters away from the receiving antenna mounted on an antenna lifter.
3. The table rotates 360 degrees to identify the position where the highest spurious emission is.
4. The receiving antenna moves up and down within the heights from one meter to four meters to identify where the maximum spurious emission is for both horizontal and vertical polarizations.
5. Set RBW = 1MHz, VBW = 3MHz on a spectrum analyzer to do the measurements then record the maximum spurious emission.
6. Substitute the EUT with a horn antenna driven by a signal generator.
7. Tune the emission power level of the signal generator to be the same as the EUT's maximum spurious emission.
8. Take a record of the output power at antenna port.
9. Repeat step 7 to step 8 for the other polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

    EIRP (dBm) = S.G. Power – Substitution Cable Loss + Substitution Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	6111D	50391	30MHz~1GHz	Jul. 06, 2020	May 05, 2021~ Jun. 25, 2021	Jul. 05, 2021	Radiation (03CH01-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Jul. 29, 2020	May 05, 2021~ Jun. 25, 2021	Jul. 28, 2021	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Jul. 27, 2020	May 05, 2021~ Jun. 25, 2021	Jul. 26, 2021	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Aug. 28, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 27, 2021	Radiation (03CH01-CA)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00841	18GHz~40GHz	Aug. 27, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 26, 2021	Radiation (03CH01-CA)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00842	18GHz~40GHz	Jul. 27, 2020	May 05, 2021~ Jun. 25, 2021	Jul. 26, 2021	Radiation (03CH01-CA)
Preamplifier	SONOMA	310N	372241	9kHz~1GHz	Jul. 28, 2020	May 05, 2021~ Jun. 25, 2021	Jul. 27, 2021	Radiation (03CH01-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055004	1GHz~18GHz	Aug. 07, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 06, 2021	Radiation (03CH01-CA)
Preamplifier	EMEC	EMC18G40G	060725	18G-40G	Aug. 07, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 06, 2021	Radiation (03CH01-CA)
EMI Test Receiver	R&S	ESR26	100049	20Hz~26.5GHz	Aug. 11, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 10, 2021	Radiation (03CH01-CA)
Hygrometer	TESTO	608-H1	45142559	N/A	Aug. 05, 2020	May 05, 2021~ Jun. 25, 2021	Aug. 04, 2021	Radiation (03CH01-CA)
Signal Generator	Rohde & Schwarz	SMF100A	105544	9kHz~44GHz	Jun. 02, 2021	May 05, 2021~ Jun. 25, 2021	Jun. 01, 2022	Radiation (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	May 05, 2021~ Jun. 25, 2021	N/A	Radiation (03CH01-CA)
Test Software	Audix	E3	6.2009-8-24d sporton	N/A	N/A	May 05, 2021~ Jun. 25, 2021	N/A	Radiation (03CH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101545	10Hz~40GHz	Jun. 26, 2020	Apr. 28, 2021~ May 31, 2021	Jun. 25, 2021	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101545	10Hz~40GHz	Jun. 01, 2021	Jun. 02, 2021~ Jul. 19, 2021	May 31, 2022	Conducted (TH01-CA)
USB Power Sensor	DARE	RPR3006W	15I00041SNO09	10MHz-6GHz	Jan. 06, 2021	Apr. 28, 2021~ Jul. 19, 2021	Jan. 05, 2022	Conducted (TH01-CA)
Hygrometer	TESTO	608-H1	45142595	N/A	Aug. 05, 2020	Apr. 28, 2021~ Jul. 19, 2021	Aug. 04, 2021	Conducted (TH01-CA)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.50 dB**

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

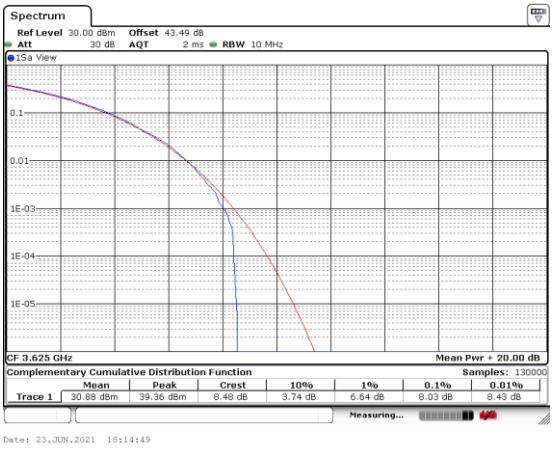
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.70 dB**

Appendix A. Test Results of Conducted Test

<Single Carrier>

Peak-to-Average Ratio

Mode	3625MHz / 10MHz	Limit: 13dB
		Result
Middle CH	8.03 dB	PASS

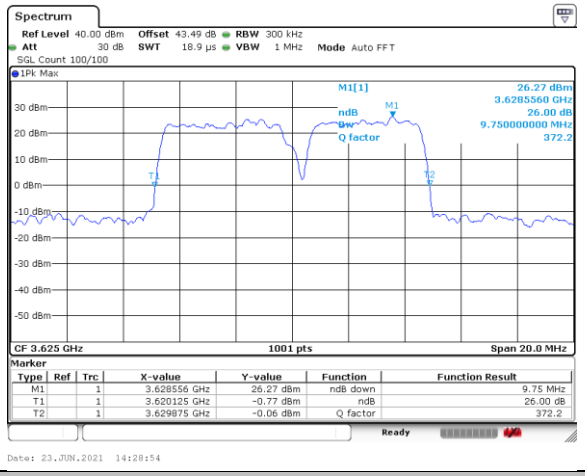
3625MHz
Middle Channel


26dB Bandwidth

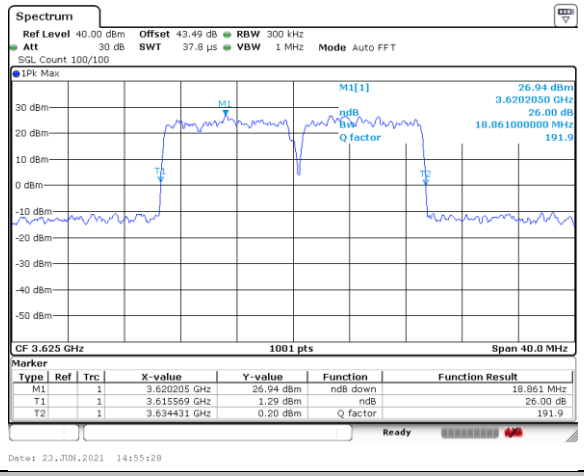
Mode	26dB BW(MHz)			
Frequency	3625MHz			
BW	10MHz	20MHz	30MHz	40MHz
Middle CH	9.75	18.86	27.99	38.28

26dB BW(MHz)

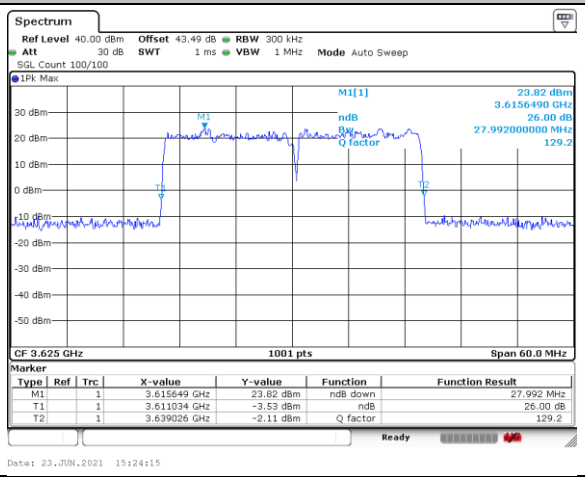
Middle Channel / 10MHz



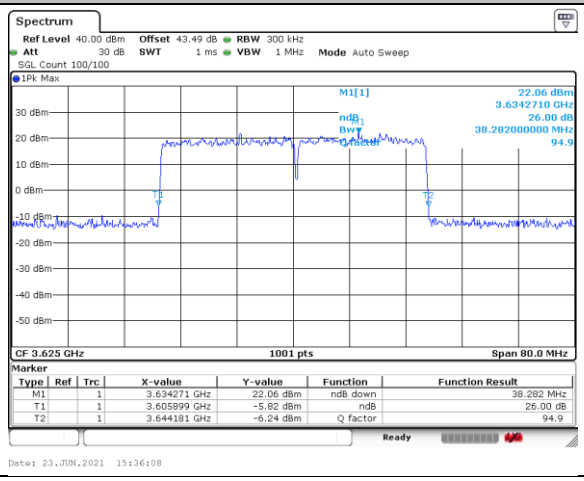
Middle Channel / 20MHz



Middle Channel / 30MHz



Middle Channel / 40MHz

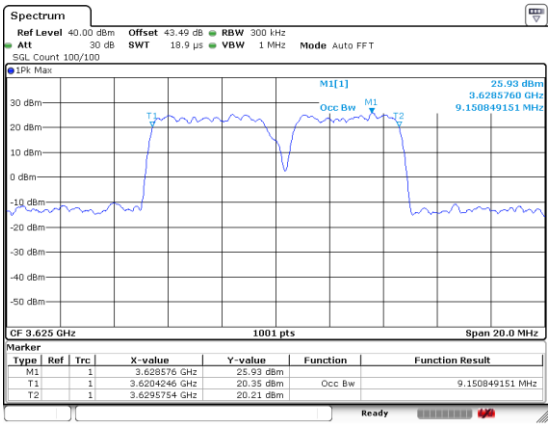


Occupied Bandwidth

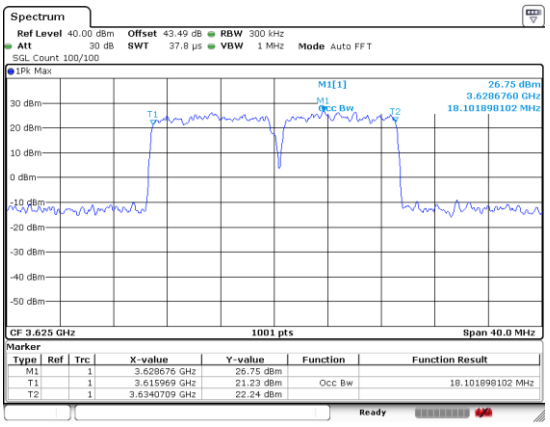
Mode	3625MHz : 99%OBW(MHz)			
Frequency	3625MHz			
BW	10MHz	20MHz	30MHz	40MHz
Middle CH	9.15	18.1	26.97	37.16

99%OBW(MHz)

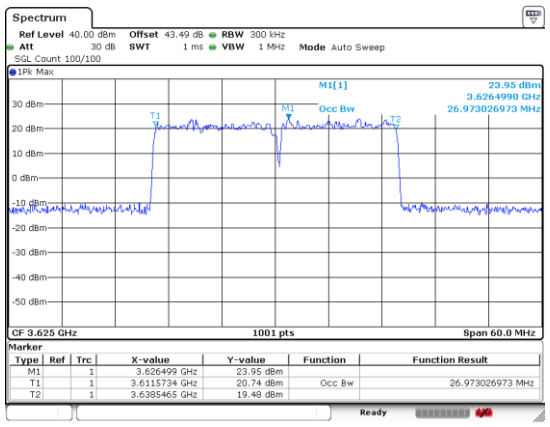
Middle Channel / 10MHz



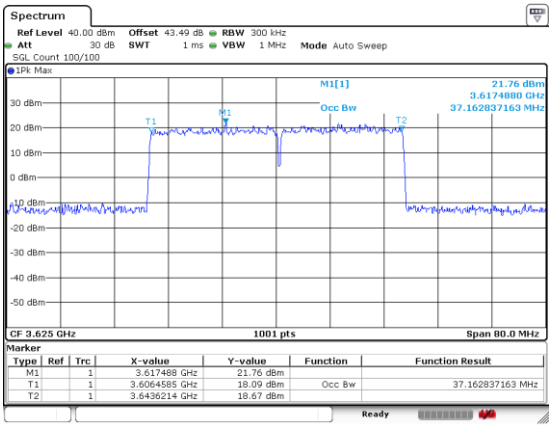
Middle Channel / 20MHz



Middle Channel / 30MHz



Middle Channel / 40MHz



EIRP Power (dBm/10MHz)

EIRP Power (dBm/10MHz)							
	Mode	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm/10MHz)	EIRP (dbm/10MHz)	Limit(dBm/10MHz)
Single Carrier(SC) Intra Band	10MHz_Low	3555	14.25	12.04	15.62	41.91	< 47 dBm
	10MHz_Middle	3625	14.25	12.04	19.36	45.65	
	10MHz_High	3695	14.25	12.04	19.29	45.58	
	20MHz_Low	3560	14.25	12.04	15.97	42.26	
	20MHz_Middle	3625	14.25	12.04	20.16	46.45	
	20MHz_High	3690	14.25	12.04	18.69	44.98	
	30MHz_Low	3565	14.25	12.04	14.38	40.67	
	30MHz_Middle	3625	14.25	12.04	17.47	43.76	
	30MHz_High	3685	14.25	12.04	16.07	42.36	
	40MHz_Low	3570	14.25	12.04	12.35	38.64	
	40MHz_Middle	3625	14.25	12.04	15.4	41.69	
	40MHz_High	3680	14.25	12.04	16.25	42.54	

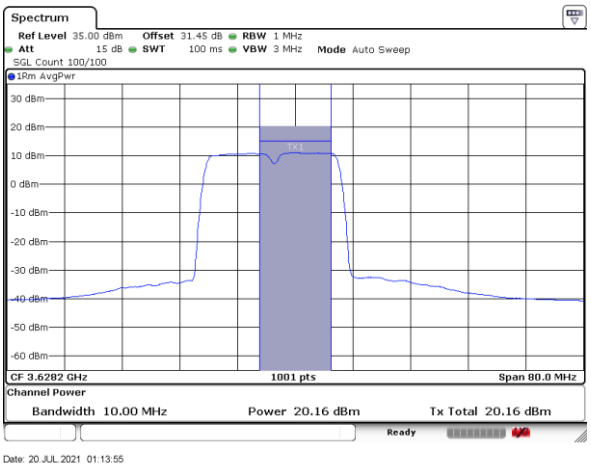
Note :

Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log(16) = 12.04 dB

Worst case EIRP Power (dBm/10MHz) – 20MHz_Middle



EIRP Power Density

EIRP PSD (dBm/MHz)								
	Mode	Channel	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm/MHz)	Total EIRP (dBm/MHz)	Total EIRP (dBm/MHz)
Single Carrier(SC) Intra Band	10MHz_Low	55290	3555	14.25	12.04	8.45	34.74	< 37 dBm
	10MHz_Middle	55990	3625	14.25	12.04	10.44	36.73	
	10MHz_High	56690	3695	14.25	12.04	10.38	36.67	
	20MHz_Low	55340	3560	14.25	12.04	6.99	33.28	
	20MHz_Middle	55990	3625	14.25	12.04	10.25	36.54	
	20MHz_High	56640	3690	14.25	12.04	9.60	35.89	
	30MHz_Low	55390	3565	14.25	12.04	5.14	31.43	
	30MHz_Middle	55990	3625	14.25	12.04	7.63	33.92	
	30MHz_High	56590	3685	14.25	12.04	6.36	32.65	
	40MHz_Low	55440	3570	14.25	12.04	3.10	29.39	
	40MHz_Middle	55990	3625	14.25	12.04	5.74	32.03	
	40MHz_High	56540	3680	14.25	12.04	6.79	33.08	

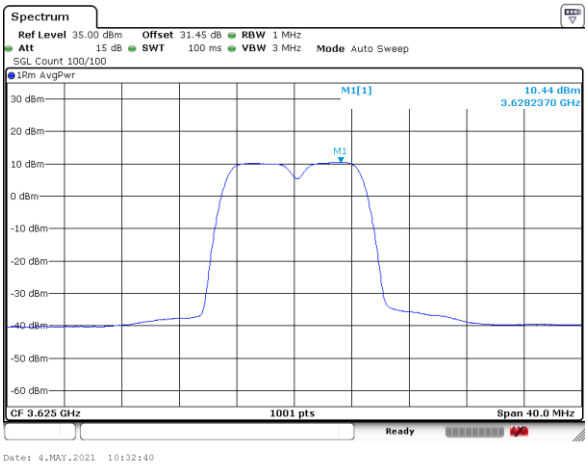
Note :

Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log(16) = 12.04 dB

Worst case EIRP Power Density – Middle / 10MHz



Total EIRP Power (dBm) for certificate

Total EIRP Power (dBm) for certificate						
	Mode	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm)	Total EIRP (dBm)
Single Carrier(SC) Intra Band	10MHz_Low	3555	14.25	12.04	16.04	42.33
	10MHz_Middle	3625	14.25	12.04	19.55	45.84
	10MHz_High	3695	14.25	12.04	19.45	45.74
	20MHz_Low	3560	14.25	12.04	18.96	45.25
	20MHz_Middle	3625	14.25	12.04	22.75	49.04
	20MHz_High	3690	14.25	12.04	21.55	47.84
	30MHz_Low	3565	14.25	12.04	18.45	44.74
	30MHz_Middle	3625	14.25	12.04	21.45	47.74
	30MHz_High	3685	14.25	12.04	20.15	46.44
	40MHz_Low	3570	14.25	12.04	17.85	44.14
	40MHz_Middle	3625	14.25	12.04	20.75	47.04
	40MHz_High	3680	14.25	12.04	21.25	47.54

Note :

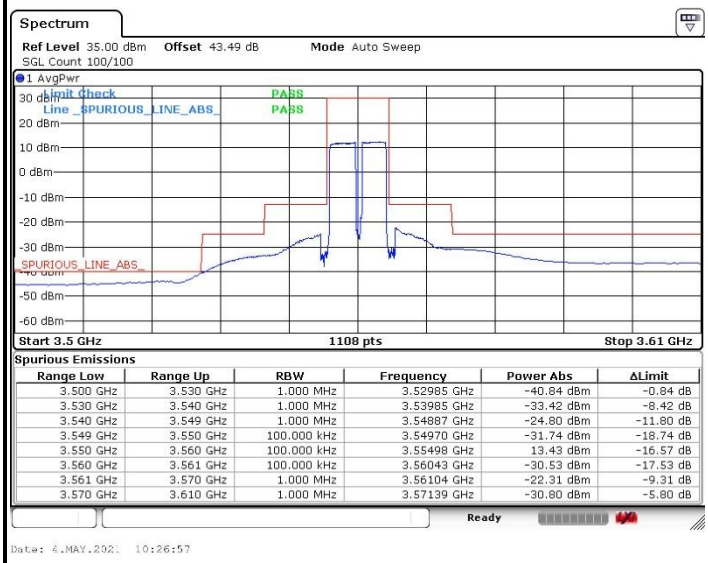
Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log(16) = 12.04 dB

Conducted Band Edge

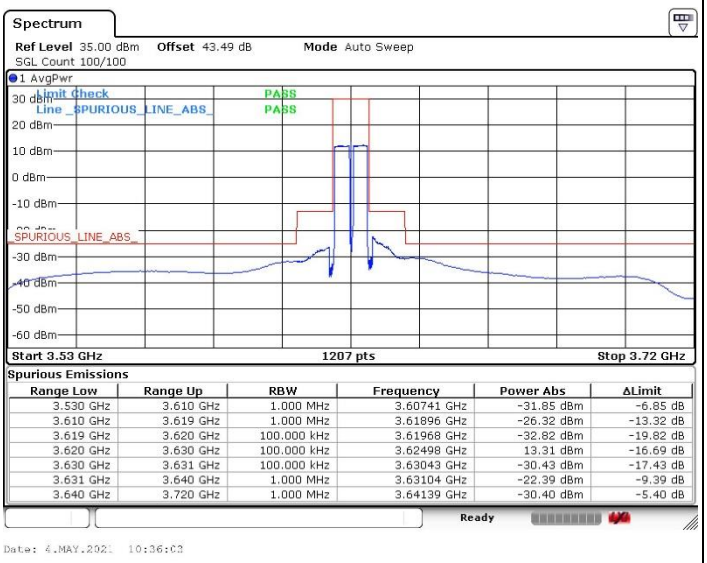
Lowest Channel / 10MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.84 dBm	-0.84 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53985 GHz	-33.42 dBm	-8.42 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54887 GHz	-24.80 dBm	-11.80 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54970 GHz	-31.74 dBm	-18.74 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55498 GHz	13.43 dBm	-16.57 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56043 GHz	-30.53 dBm	-17.53 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56104 GHz	-22.31 dBm	-9.31 dB
3.570 GHz	3.610 GHz	1.000 MHz	3.57139 GHz	-30.80 dBm	-5.80 dB

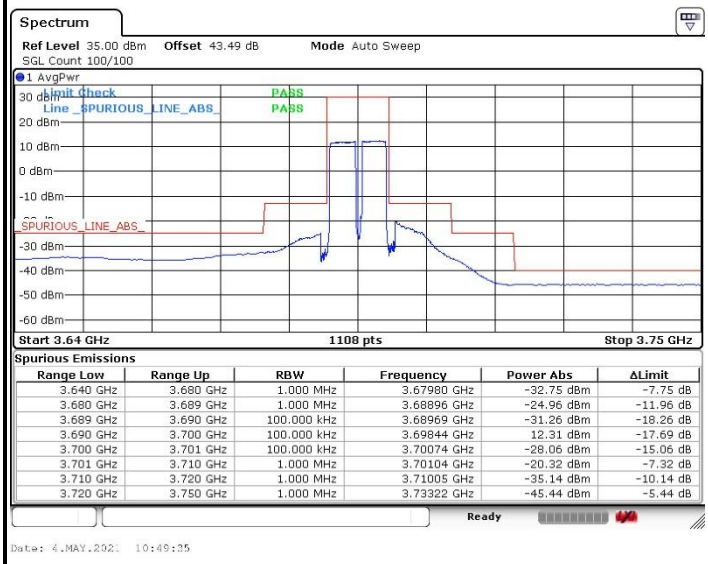
Middle Channel / 10MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.610 GHz	1.000 MHz	3.60741 GHz	-31.85 dBm	-6.85 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61896 GHz	-26.32 dBm	-13.32 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61968 GHz	-32.82 dBm	-19.82 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62498 GHz	13.31 dBm	-16.69 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63043 GHz	-30.43 dBm	-17.43 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63104 GHz	-22.39 dBm	-9.39 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64139 GHz	-30.40 dBm	-5.40 dB

Highest Channel / 10MHz

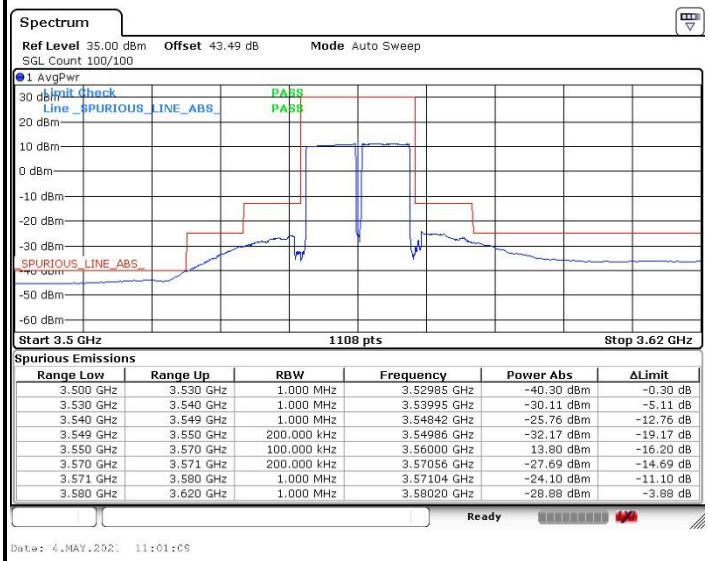


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.640 GHz	3.680 GHz	1.000 MHz	3.67980 GHz	-32.75 dBm	-7.75 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68896 GHz	-24.96 dBm	-11.96 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68969 GHz	-31.26 dBm	-18.26 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69844 GHz	12.31 dBm	-17.69 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70074 GHz	-28.06 dBm	-15.06 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-20.32 dBm	-7.32 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-35.14 dBm	-10.14 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73322 GHz	-45.44 dBm	-5.44 dB

N/A

Lowest Channel / 20MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.30 dBm	-0.30 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53995 GHz	-30.11 dBm	-5.11 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54842 GHz	-25.76 dBm	-12.76 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54986 GHz	-32.17 dBm	-19.17 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56000 GHz	13.80 dBm	-16.20 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57056 GHz	-27.69 dBm	-14.69 dB
3.571 GHz	3.580 GHz	1.000 MHz	3.57104 GHz	-24.10 dBm	-11.10 dB
3.580 GHz	3.620 GHz	1.000 MHz	3.58020 GHz	-28.88 dBm	-3.88 dB

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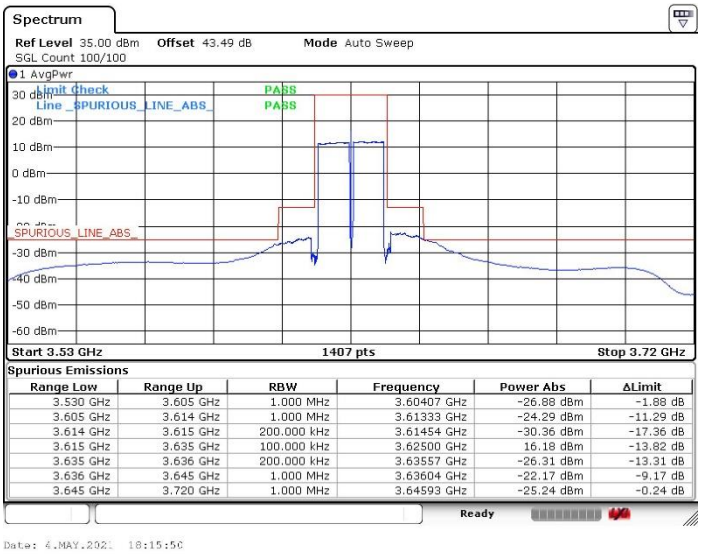
Middle Channel / 20MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.605 GHz	1.000 MHz	3.60407 GHz	-26.88 dBm	-1.88 dB
3.605 GHz	3.614 GHz	1.000 MHz	3.61333 GHz	-24.29 dBm	-11.29 dB
3.614 GHz	3.615 GHz	200.000 kHz	3.61454 GHz	-30.36 dBm	-17.36 dB
3.615 GHz	3.635 GHz	100.000 kHz	3.62500 GHz	16.18 dBm	-13.82 dB
3.635 GHz	3.636 GHz	200.000 kHz	3.63557 GHz	-26.31 dBm	-13.31 dB
3.636 GHz	3.645 GHz	1.000 MHz	3.63604 GHz	-22.17 dBm	-9.17 dB
3.645 GHz	3.720 GHz	1.000 MHz	3.64593 GHz	-25.24 dBm	-0.24 dB

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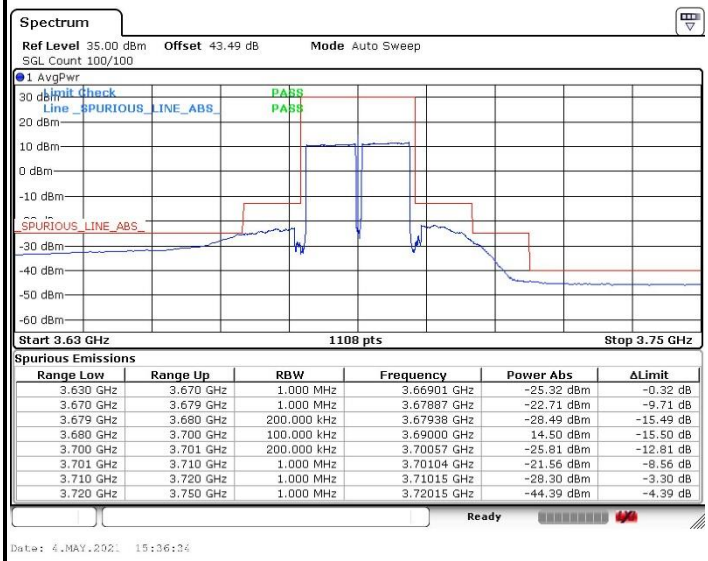
Highest Channel / 20MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.670 GHz	1.000 MHz	3.66901 GHz	-25.32 dBm	-0.32 dB
3.670 GHz	3.679 GHz	1.000 MHz	3.67887 GHz	-22.71 dBm	-9.71 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67938 GHz	-28.49 dBm	-15.49 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69000 GHz	14.50 dBm	-15.50 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70057 GHz	-25.81 dBm	-12.81 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-21.56 dBm	-8.56 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71015 GHz	-28.30 dBm	-3.30 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-44.39 dBm	-4.39 dB

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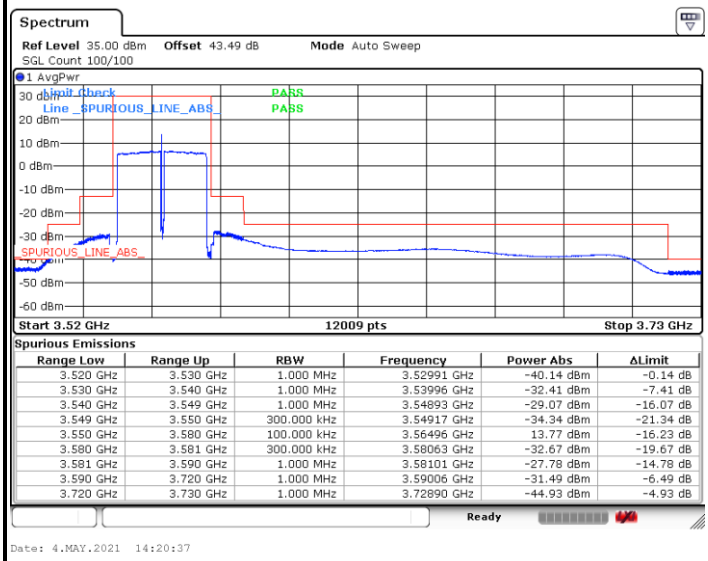
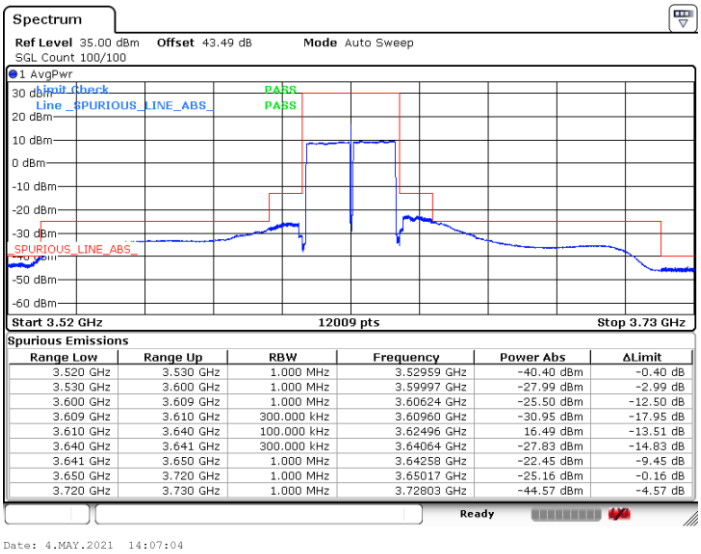
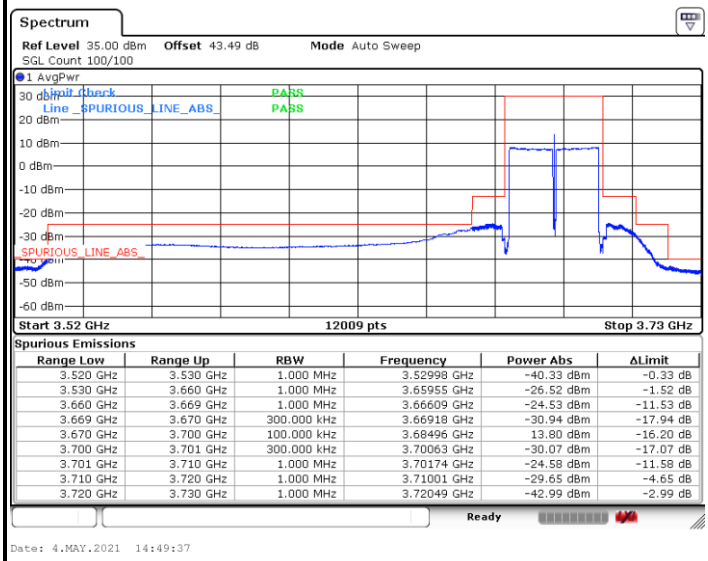
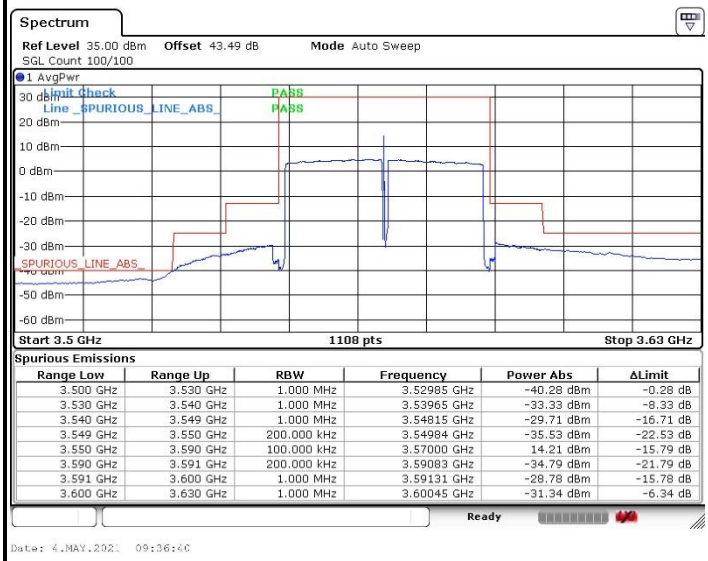
N/A

Lowest Channel / 30MHz	Middle Channel / 30MHz
	
Highest Channel / 30MHz	N/A
	

Lowest Channel / 40MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.28 dBm	-0.28 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53965 GHz	-33.33 dBm	-8.33 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54815 GHz	-29.71 dBm	-16.71 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54984 GHz	-35.53 dBm	-22.53 dB
3.550 GHz	3.590 GHz	100.000 kHz	3.57000 GHz	14.21 dBm	-15.79 dB
3.590 GHz	3.591 GHz	200.000 kHz	3.59083 GHz	-34.79 dBm	-21.79 dB
3.591 GHz	3.600 GHz	1.000 MHz	3.59131 GHz	-28.78 dBm	-15.78 dB
3.600 GHz	3.630 GHz	1.000 MHz	3.60045 GHz	-31.34 dBm	-6.34 dB

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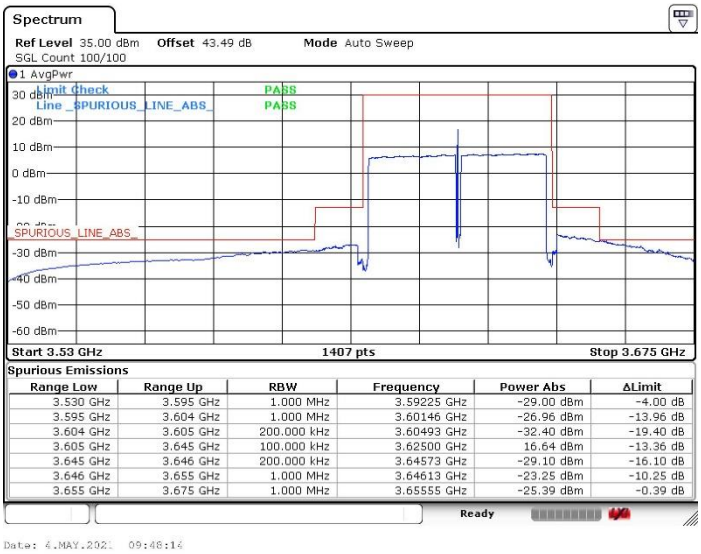
Middle Channel / 40MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.595 GHz	1.000 MHz	3.59225 GHz	-29.00 dBm	-4.00 dB
3.595 GHz	3.604 GHz	1.000 MHz	3.60146 GHz	-26.96 dBm	-13.96 dB
3.604 GHz	3.605 GHz	200.000 kHz	3.60493 GHz	-32.40 dBm	-19.40 dB
3.605 GHz	3.645 GHz	100.000 kHz	3.62500 GHz	16.64 dBm	-13.36 dB
3.645 GHz	3.646 GHz	200.000 kHz	3.64573 GHz	-29.10 dBm	-16.10 dB
3.646 GHz	3.655 GHz	1.000 MHz	3.64613 GHz	-23.25 dBm	-10.25 dB
3.655 GHz	3.675 GHz	1.000 MHz	3.65555 GHz	-25.39 dBm	-0.39 dB

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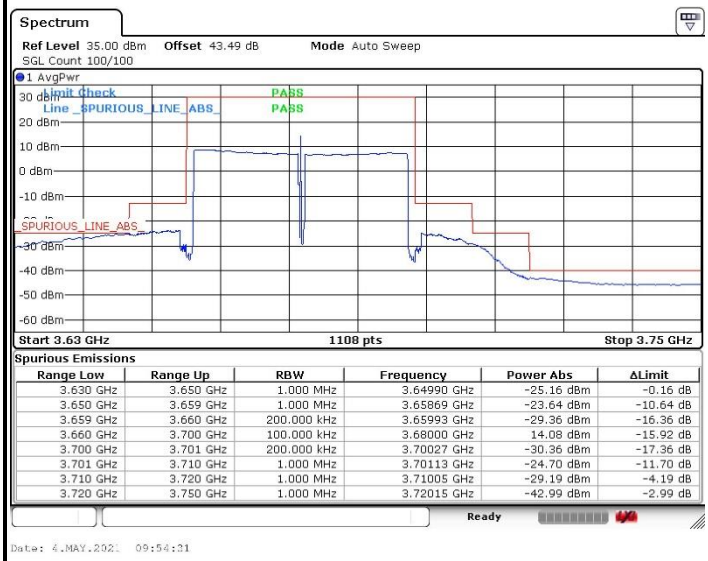
Highest Channel / 40MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.650 GHz	1.000 MHz	3.64990 GHz	-25.16 dBm	-0.16 dB
3.650 GHz	3.659 GHz	1.000 MHz	3.65869 GHz	-23.64 dBm	-10.64 dB
3.659 GHz	3.660 GHz	200.000 kHz	3.65993 GHz	-29.36 dBm	-16.36 dB
3.660 GHz	3.700 GHz	100.000 kHz	3.68000 GHz	14.08 dBm	-15.92 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70027 GHz	-30.36 dBm	-17.36 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-24.70 dBm	-11.70 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-29.19 dBm	-4.19 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-42.99 dBm	-2.99 dB

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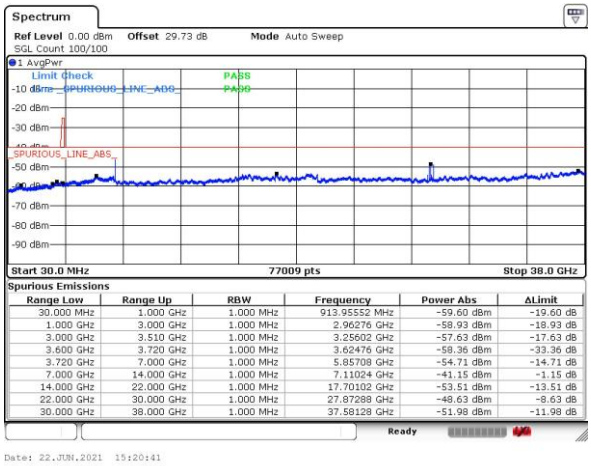
N/A

Conducted Spurious Emission

Lowest Channel / 10MHz

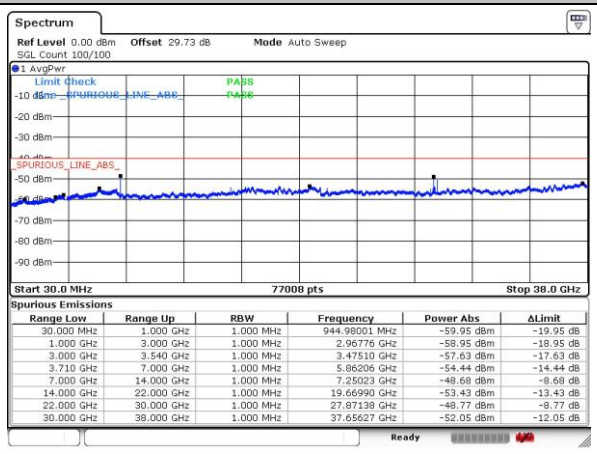


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	913.95552 MHz	-59.60 dBm	-19.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96276 GHz	-58.93 dBm	-18.93 dB
3.000 GHz	3.510 GHz	1.000 MHz	3.25602 GHz	-57.63 dBm	-17.63 dB
3.600 GHz	3.720 GHz	1.000 MHz	3.62476 GHz	-58.36 dBm	-33.36 dB
3.720 GHz	7.000 GHz	1.000 MHz	5.85708 GHz	-54.71 dBm	-14.71 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.11024 GHz	-41.15 dBm	-1.15 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.70102 GHz	-53.51 dBm	-13.51 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.87288 GHz	-48.63 dBm	-8.63 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.58128 GHz	-51.98 dBm	-11.98 dB

Date: 22.JUN.2021 15:20:41

Middle Channel / 10MHz

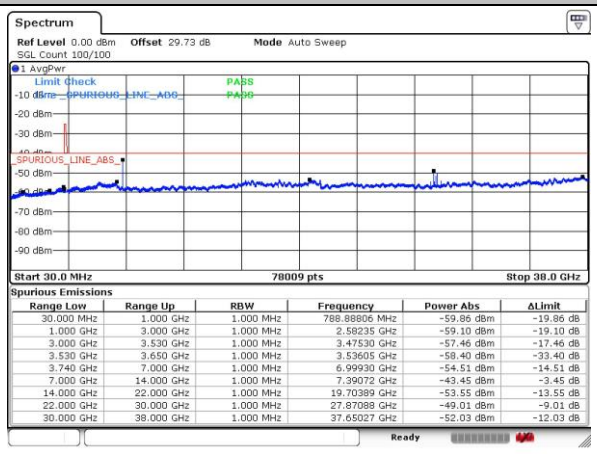


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.98001 MHz	-59.95 dBm	-19.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96776 GHz	-58.95 dBm	-18.95 dB
3.000 GHz	3.540 GHz	1.000 MHz	3.47510 GHz	-57.63 dBm	-17.63 dB
3.710 GHz	7.000 GHz	1.000 MHz	5.86206 GHz	-54.44 dBm	-14.44 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.25023 GHz	-48.68 dBm	-8.68 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.66990 GHz	-53.43 dBm	-13.43 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.87138 GHz	-48.77 dBm	-8.77 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.65627 GHz	-52.05 dBm	-12.05 dB

Date: 22.JUN.2021 15:26:36

Highest Channel / 10MHz

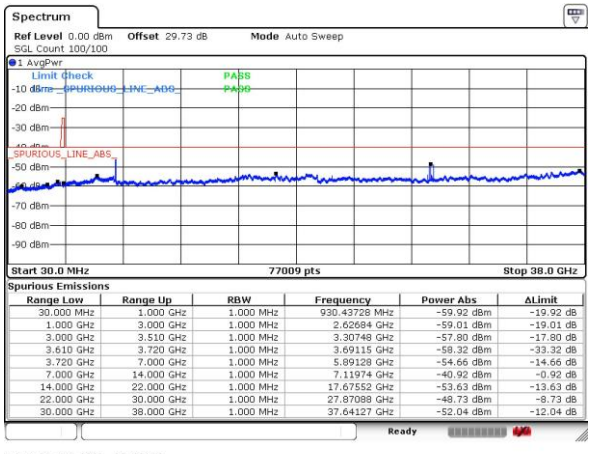


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	788.88806 MHz	-59.86 dBm	-19.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.58235 GHz	-59.10 dBm	-19.10 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.47530 GHz	-57.46 dBm	-17.46 dB
3.530 GHz	3.650 GHz	1.000 MHz	3.53605 GHz	-58.40 dBm	-33.40 dB
3.740 GHz	7.000 GHz	1.000 MHz	6.99930 GHz	-54.51 dBm	-14.51 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.39072 GHz	-43.45 dBm	-3.45 dB
14.000 GHz	22.000 GHz	1.000 MHz	19.70389 GHz	-53.55 dBm	-13.55 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.87088 GHz	-49.01 dBm	-9.01 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.65027 GHz	-52.03 dBm	-12.03 dB

Date: 22.JUN.2021 15:32:05

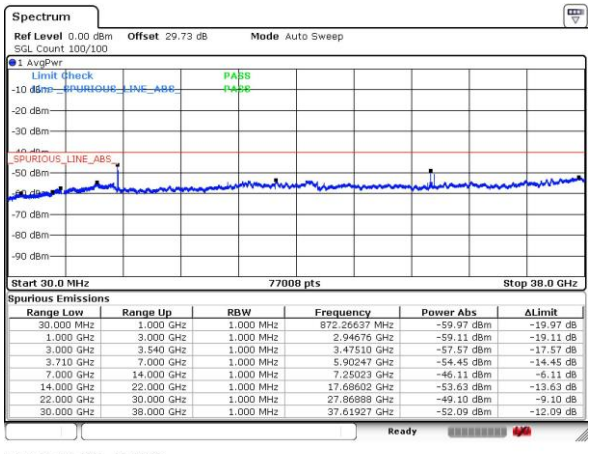
Lowest Channel / 20MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	930.43728 MHz	-59.92 dBm	-19.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62684 GHz	-59.01 dBm	-19.01 dB
3.000 GHz	3.510 GHz	1.000 MHz	3.30748 GHz	-57.80 dBm	-17.80 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.69115 GHz	-58.32 dBm	-33.32 dB
3.720 GHz	7.000 GHz	1.000 MHz	5.89128 GHz	-54.66 dBm	-14.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.11974 GHz	-40.92 dBm	-0.92 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.67552 GHz	-53.63 dBm	-13.63 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.87088 GHz	-48.73 dBm	-8.73 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.64127 GHz	-52.04 dBm	-12.04 dB

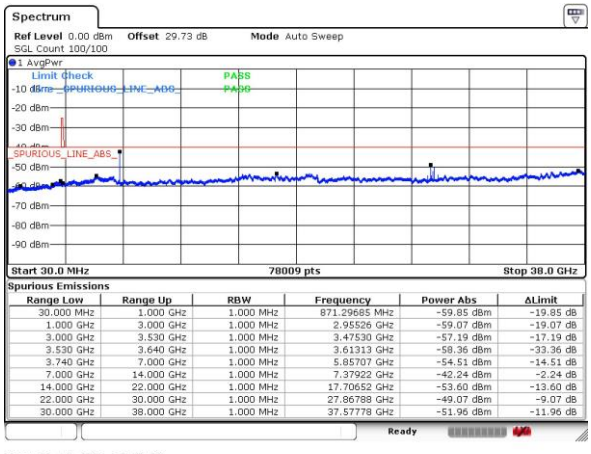
Middle Channel / 20MHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	872.26637 MHz	-59.97 dBm	-19.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94676 GHz	-59.11 dBm	-19.11 dB
3.000 GHz	3.540 GHz	1.000 MHz	3.47510 GHz	-57.57 dBm	-17.57 dB
3.710 GHz	7.000 GHz	1.000 MHz	5.90247 GHz	-54.45 dBm	-14.45 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.25023 GHz	-46.11 dBm	-6.11 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.68602 GHz	-53.63 dBm	-13.63 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.86888 GHz	-49.10 dBm	-9.10 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.61927 GHz	-52.09 dBm	-12.09 dB

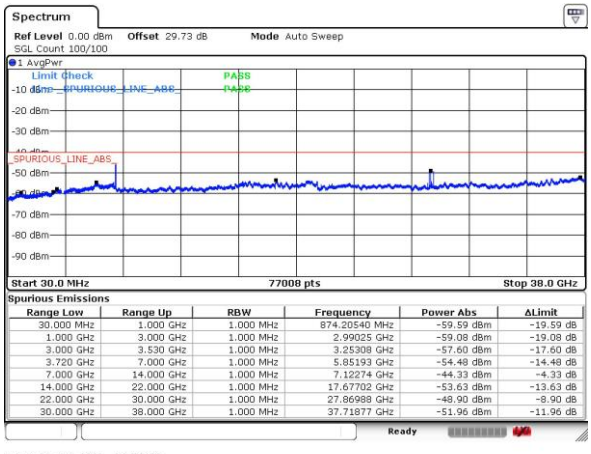
Highest Channel / 20MHz



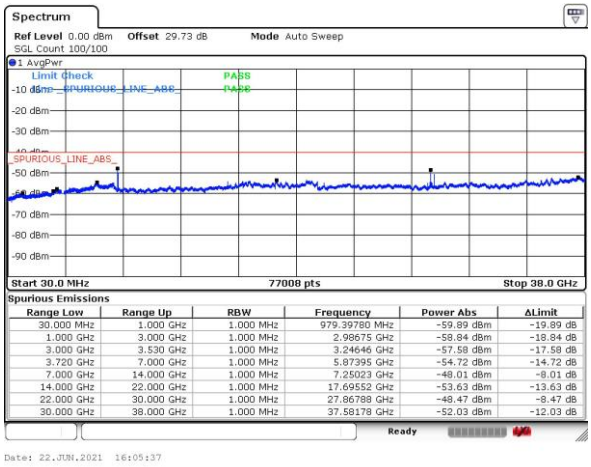
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	871.29685 MHz	-59.85 dBm	-19.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95526 GHz	-59.07 dBm	-19.07 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.47530 GHz	-57.19 dBm	-17.19 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.61313 GHz	-58.36 dBm	-33.36 dB
3.740 GHz	7.000 GHz	1.000 MHz	5.85707 GHz	-54.51 dBm	-14.51 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.37922 GHz	-42.24 dBm	-2.24 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.70652 GHz	-53.60 dBm	-13.60 dB
22.000 GHz	30.000 GHz	1.000 MHz	27.86788 GHz	-49.07 dBm	-9.07 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.57778 GHz	-51.96 dBm	-11.96 dB

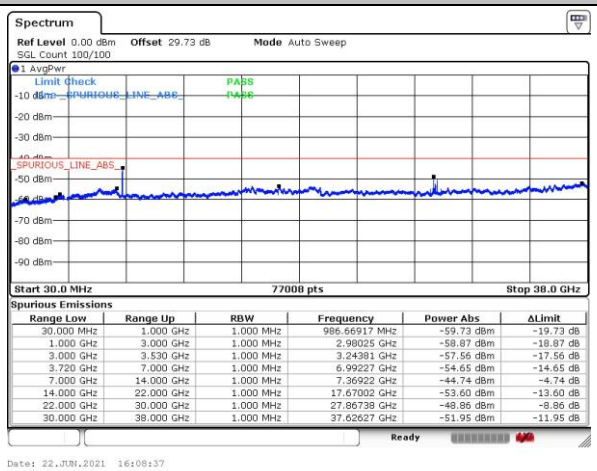
Lowest Channel / 30MHz



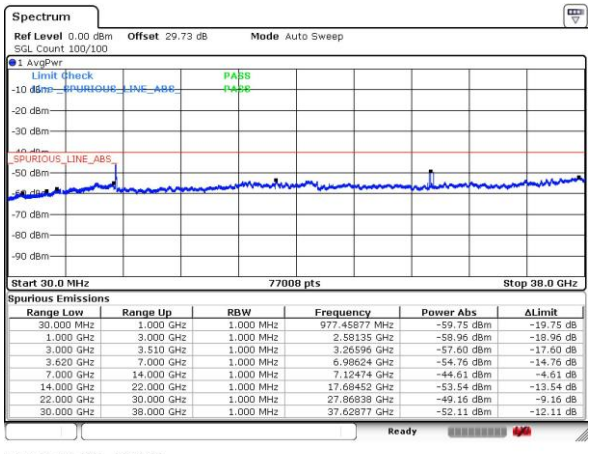
Middle Channel / 30MHz



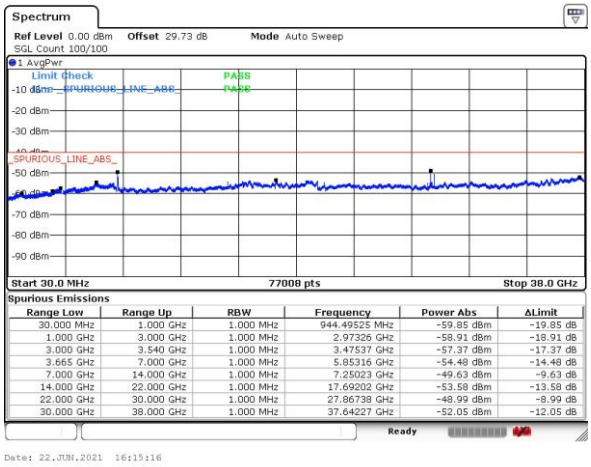
Highest Channel / 30MHz



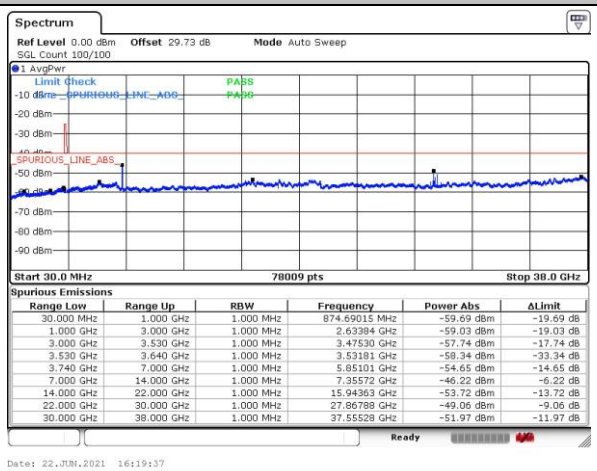
Lowest Channel / 40MHz



Middle Channel / 40MHz



Highest Channel / 40MHz

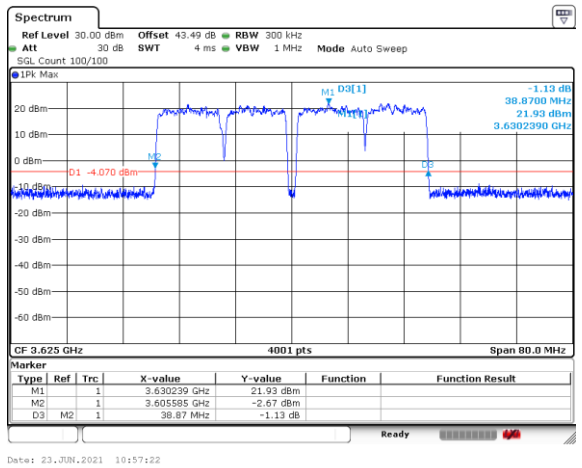


<Multi Carrier (Contiguous)>

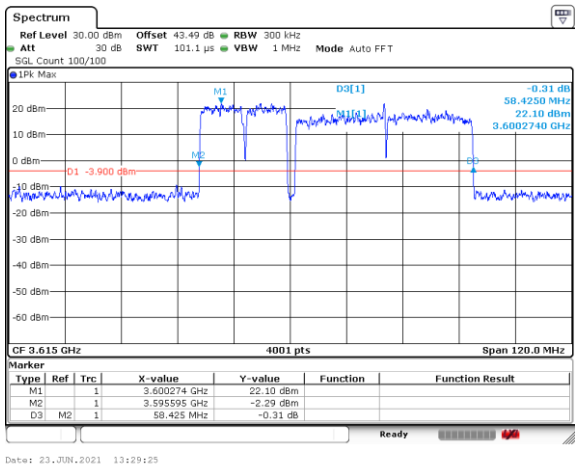
26dB Bandwidth

Mode	26dB BW(MHz)			
Frequency	3615MHz + 3635MHz	3605MHz + 3635MHz	3615MHz + 3645MHz	3605MHz + 3645MHz
BW	20MHz+20MHz	20MHz+40MHz	40MHz+20MHz	40MHz+40MHz
Middle CH	38.87	58.425	58.408	78.045

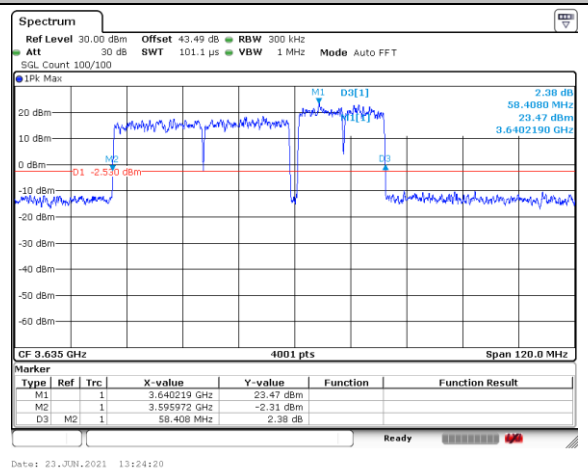
Middle Channel / 20MHz+20MHz



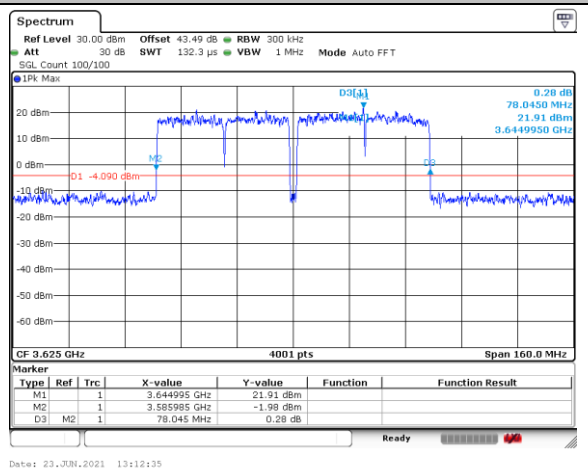
Middle Channel / 20MHz+40MHz



Middle Channel / 40MHz+20MHz



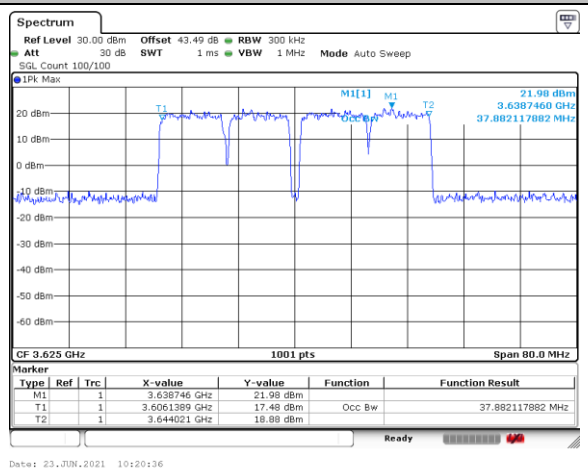
Middle Channel / 40MHz+40MHz



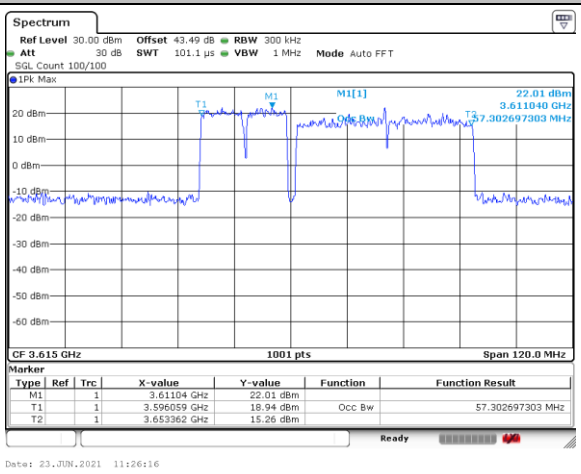
Occupied Bandwidth

Mode	99%OBW(MHz)			
Frequency	3615MHz + 3635MHz	3605MHz + 3635MHz	3615MHz + 3645MHz	3605MHz + 3645MHz
BW	20MHz+20MHz	20MHz+40MHz	40MHz+20MHz	40MHz+40MHz
Middle CH	37.88	57.30	57.18	76.56

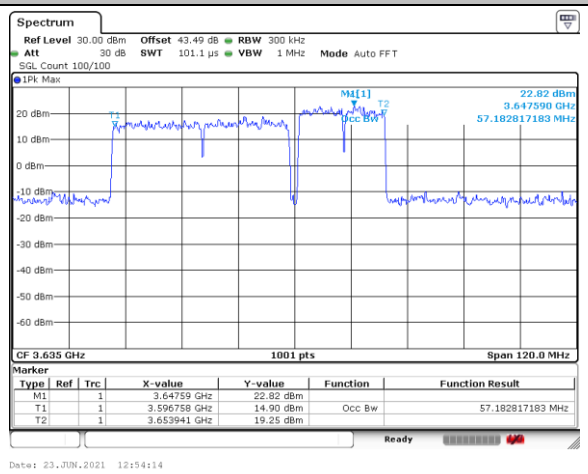
Middle Channel / 20MHz+20MHz



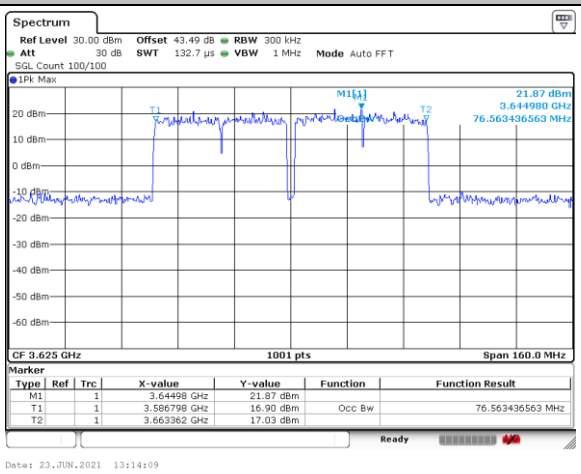
Middle Channel / 20MHz+40MHz



Middle Channel / 40MHz+20MHz



Middle Channel / 40MHz+40MHz



EIRP Power (dBm/10MHz)

EIRP Power (dBm/10MHz)						
Mode	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm/10MHz)	EIRP (dBm/10MHz)	Limit
20MHz+20MHz_Low	3560 + 3580	14.25	12.04	11.76	38.05	< 47 dBm
20MHz+20MHz_Middle	3615 + 3635	14.25	12.04	15.1	41.39	
20MHz+20MHz_High	3670 + 3690	14.25	12.04	15.31	41.60	
20MHz+40MHz_Low	3560 + 3590	14.25	12.04	10.98	37.27	
20MHz+40MHz_Middle	3605 + 3635	14.25	12.04	15.65	41.94	
20MHz+40MHz_High	3650 + 3680	14.25	12.04	18.65	44.94	
40MHz+20MHz_Low	3570 + 3600	14.25	12.04	13.38	39.67	
40MHz+20MHz_Middle	3615 + 3645	14.25	12.04	17.01	43.30	
40MHz+20MHz_High	3660 + 3690	14.25	12.04	17	43.29	
40MHz+40MHz_Low	3570 + 3610	14.25	12.04	9.75	36.04	
40MHz+40MHz_Middle	3605 + 3645	14.25	12.04	15.26	41.55	
40MHz+40MHz_High	3640 + 3680	14.25	12.04	16.58	42.87	

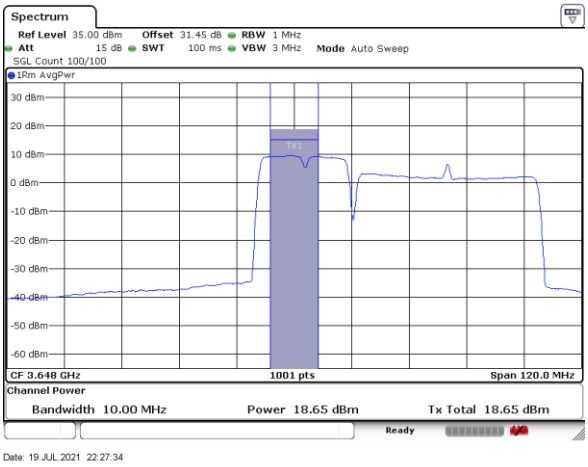
Note :

Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log10(16) = 12.04 dB

Worst case EIRP Power (dBm/10MHz) - Highest Channel / 20MHz+40MHz



EIRP Power Density

EIRP PSD (dBm/MHz)						
Mode	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm/MHz)	Total EIRP (dBm/MHz)	Limit (dBm/MHz)
20MHz+20MHz_Low	3560 + 3580	14.25	12.04	2.75	29.04	< 37 dBm
20MHz+20MHz_Middle	3615 + 3635	14.25	12.04	5.79	32.08	
20MHz+20MHz_High	3670 + 3690	14.25	12.04	6.82	33.11	
20MHz+40MHz_Low	3560 + 3590	14.25	12.04	2.23	28.52	
20MHz+40MHz_Middle	3605 + 3635	14.25	12.04	9.53	35.82	
20MHz+40MHz_High	3650 + 3680	14.25	12.04	9.69	35.98	
40MHz+20MHz_Low	3570 + 3600	14.25	12.04	5.62	31.91	
40MHz+20MHz_Middle	3615 + 3645	14.25	12.04	7.13	33.42	
40MHz+20MHz_High	3660 + 3690	14.25	12.04	7.17	33.46	
40MHz+40MHz_Low	3570 + 3610	14.25	12.04	5.65	31.94	
40MHz+40MHz_Middle	3605 + 3645	14.25	12.04	5.26	31.55	
40MHz+40MHz_High	3640 + 3680	14.25	12.04	7.48	33.77	

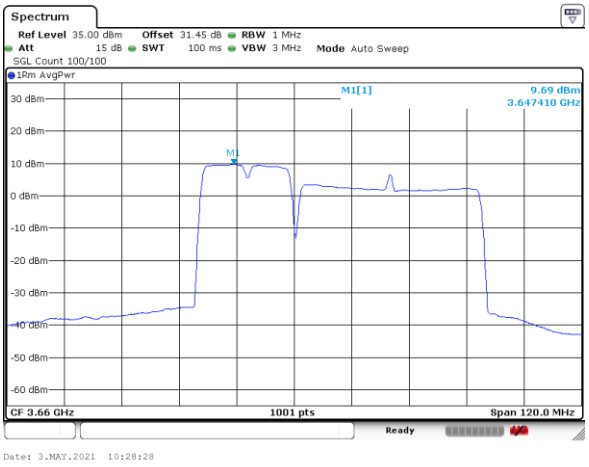
Note :

Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log10(16) = 12.04 dB

Worst case EIRP Power Density - Highest Channel / 20MHz+40MHz



Total EIRP Power (dBm) for certificate

Total EIRP Power (dBm) for certificate					
Mode	Frequency (MHz)	DG (dBi)	MIMO Factor	Single port conducted power (dBm)	Total EIRP (dBm)
20MHz+20MHz_Low	3560 + 3580	14.25	12.04	17.35	43.64
20MHz+20MHz_Middle	3615 + 3635	14.25	12.04	20.65	46.94
20MHz+20MHz_High	3670 + 3690	14.25	12.04	20.75	47.04
20MHz+40MHz_Low	3560 + 3590	14.25	12.04	16.55	42.84
20MHz+40MHz_Middle	3605 + 3635	14.25	12.04	21.75	48.04
20MHz+40MHz_High	3650 + 3680	14.25	12.04	23.35	49.64
40MHz+20MHz_Low	3570 + 3600	14.25	12.04	19.25	45.54
40MHz+20MHz_Middle	3615 + 3645	14.25	12.04	21.65	47.94
40MHz+20MHz_High	3660 + 3690	14.25	12.04	22.85	49.14
40MHz+40MHz_Low	3570 + 3610	14.25	12.04	18.35	44.64
40MHz+40MHz_Middle	3605 + 3645	14.25	12.04	22.75	49.04
40MHz+40MHz_High	3640 + 3680	14.25	12.04	24.25	50.54

Note :

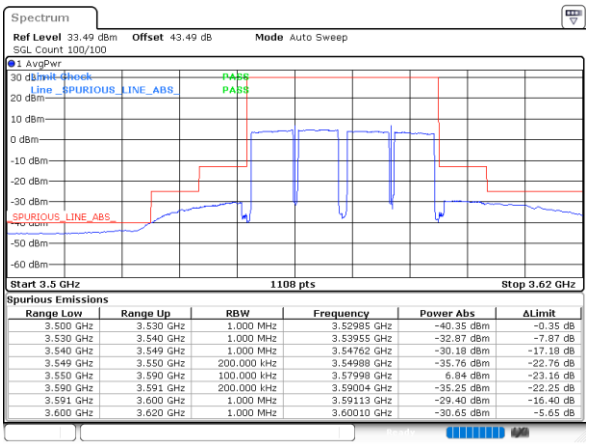
Antenna Gain = 13dBi

Directional Gain (8H/8V) = 13dBi + 10log(Ntx = 8 / Nss = 6) = 14.25dBi

MIMO Factor: 10*log10(16) = 12.04 dB

Conducted Band Edge

20MHz+20MHz Low Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.35 dBm	-0.35 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53955 GHz	-32.87 dBm	-7.87 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54762 GHz	-30.18 dBm	-17.18 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54988 GHz	-35.76 dBm	-22.76 dB
3.550 GHz	3.590 GHz	100.000 kHz	3.57998 GHz	6.84 dBm	-23.16 dB
3.590 GHz	3.591 GHz	200.000 kHz	3.59004 GHz	-35.25 dBm	-22.25 dB
3.591 GHz	3.600 GHz	1.000 MHz	3.59113 GHz	-29.40 dBm	-16.40 dB
3.600 GHz	3.620 GHz	1.000 MHz	3.60010 GHz	-30.65 dBm	-5.65 dB

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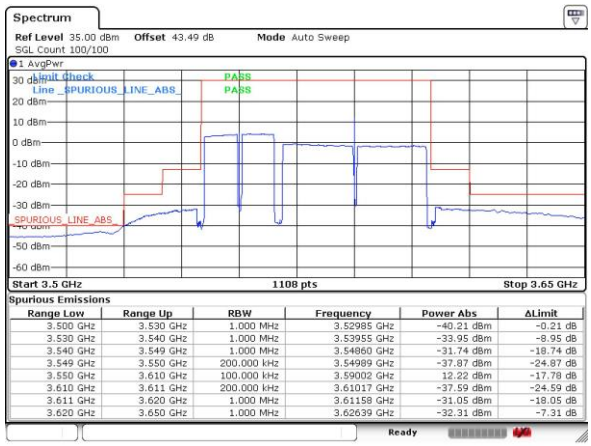
20MHz+40MHz Low Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.21 dBm	-0.21 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53955 GHz	-33.95 dBm	-8.95 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54860 GHz	-31.74 dBm	-18.74 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54989 GHz	-37.87 dBm	-24.87 dB
3.550 GHz	3.610 GHz	100.000 kHz	3.59002 GHz	12.22 dBm	-17.78 dB
3.610 GHz	3.611 GHz	200.000 kHz	3.61017 GHz	-37.59 dBm	-24.59 dB
3.611 GHz	3.620 GHz	1.000 MHz	3.61158 GHz	-31.05 dBm	-18.05 dB
3.620 GHz	3.650 GHz	1.000 MHz	3.62639 GHz	-32.31 dBm	-7.31 dB

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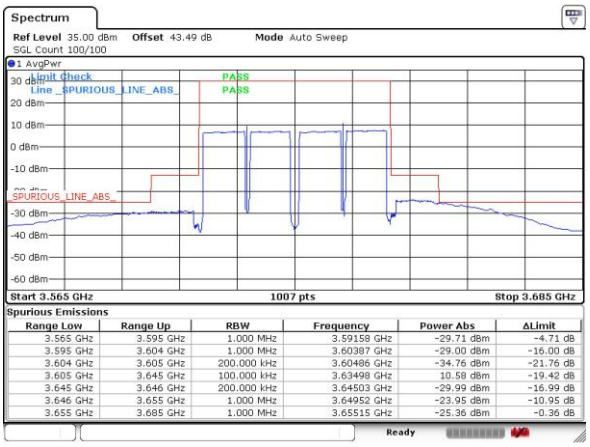
20MHz+20MHz Middle Channel

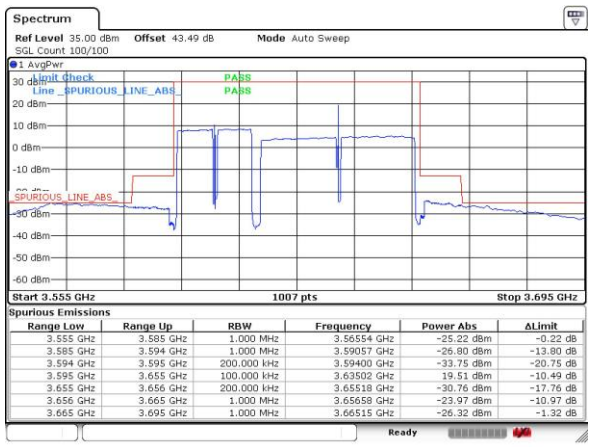


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.565 GHz	3.595 GHz	1.000 MHz	3.59158 GHz	-29.71 dBm	-4.71 dB
3.595 GHz	3.604 GHz	1.000 MHz	3.60387 GHz	-29.00 dBm	-16.00 dB
3.604 GHz	3.605 GHz	200.000 kHz	3.60486 GHz	-34.76 dBm	-21.76 dB
3.605 GHz	3.645 GHz	100.000 kHz	3.63498 GHz	10.58 dBm	-19.42 dB
3.645 GHz	3.646 GHz	200.000 kHz	3.64503 GHz	-29.99 dBm	-16.99 dB
3.646 GHz	3.655 GHz	1.000 MHz	3.64952 GHz	-23.95 dBm	-10.95 dB
3.655 GHz	3.685 GHz	1.000 MHz	3.65515 GHz	-25.36 dBm	-0.36 dB

Date: 3.MAY.2021 15:33:11

20MHz+40MHz Middle Channel

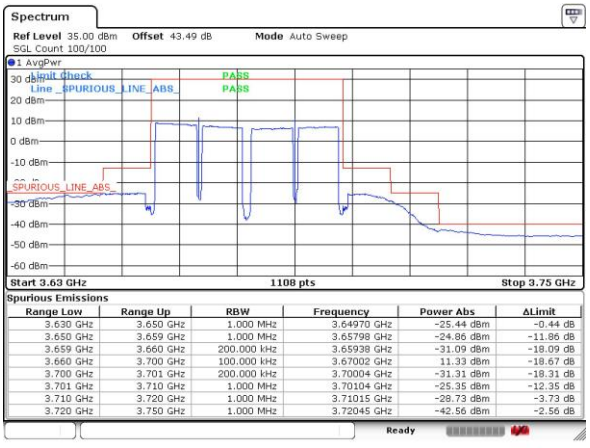


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.555 GHz	3.585 GHz	1.000 MHz	3.56554 GHz	-25.22 dBm	-0.22 dB
3.585 GHz	3.594 GHz	1.000 MHz	3.59057 GHz	-26.80 dBm	-13.80 dB
3.594 GHz	3.595 GHz	200.000 kHz	3.59400 GHz	-33.75 dBm	-20.75 dB
3.595 GHz	3.655 GHz	100.000 kHz	3.63502 GHz	19.51 dBm	-10.49 dB
3.655 GHz	3.656 GHz	200.000 kHz	3.65518 GHz	-30.76 dBm	-17.76 dB
3.656 GHz	3.665 GHz	1.000 MHz	3.65658 GHz	-23.97 dBm	-10.97 dB
3.665 GHz	3.695 GHz	1.000 MHz	3.66515 GHz	-26.32 dBm	-1.32 dB

Date: 3.MAY.2021 10:17:00

20MHz+20MHz High Channel

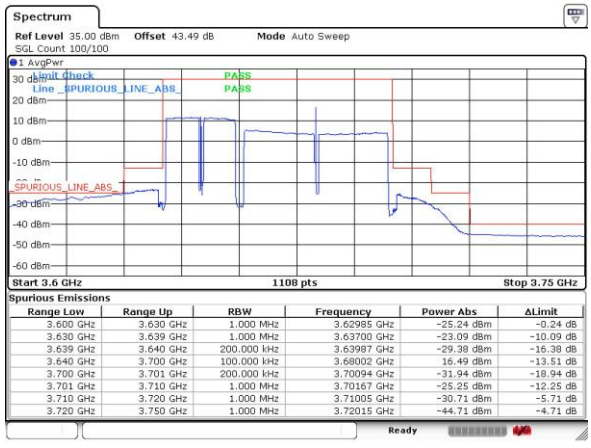


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.650 GHz	1.000 MHz	3.64970 GHz	-25.44 dBm	-0.44 dB
3.650 GHz	3.659 GHz	1.000 MHz	3.65798 GHz	-24.86 dBm	-11.86 dB
3.659 GHz	3.660 GHz	200.000 kHz	3.65938 GHz	-31.09 dBm	-18.09 dB
3.660 GHz	3.700 GHz	100.000 kHz	3.67002 GHz	11.33 dBm	-18.67 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70004 GHz	-31.31 dBm	-18.31 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-25.35 dBm	-12.35 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71015 GHz	-28.73 dBm	-3.73 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72045 GHz	-42.56 dBm	-2.56 dB

Date: 3.MAY.2021 14:17:16

20MHz+40MHz High Channel

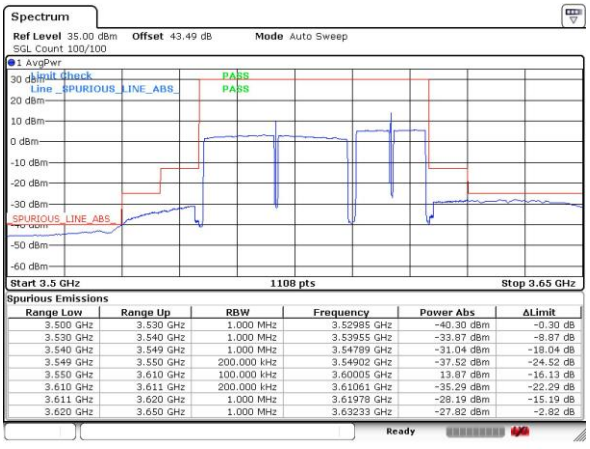


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.630 GHz	1.000 MHz	3.62985 GHz	-25.24 dBm	-0.24 dB
3.630 GHz	3.639 GHz	1.000 MHz	3.63700 GHz	-23.09 dBm	-10.09 dB
3.639 GHz	3.640 GHz	200.000 kHz	3.63987 GHz	-29.38 dBm	-16.38 dB
3.640 GHz	3.700 GHz	100.000 kHz	3.68002 GHz	16.49 dBm	-13.51 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70094 GHz	-31.94 dBm	-18.94 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70167 GHz	-25.25 dBm	-12.25 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-30.71 dBm	-5.71 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-44.71 dBm	-4.71 dB

Date: 3.MAY.2021 10:26:20

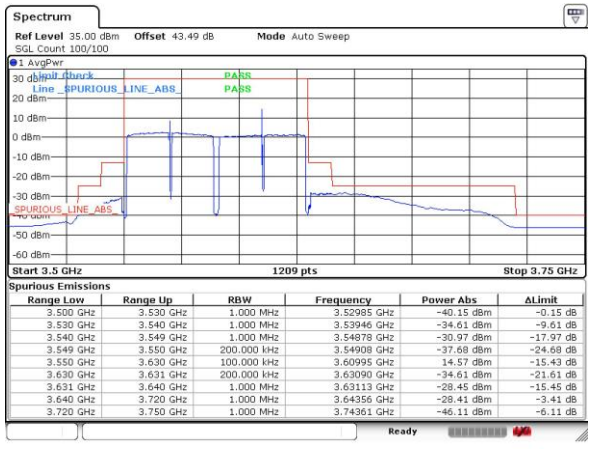
40MHz+20MHz Low Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.30 dBm	-0.30 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53955 GHz	-33.87 dBm	-8.87 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54789 GHz	-31.04 dBm	-18.04 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54902 GHz	-37.52 dBm	-24.52 dB
3.550 GHz	3.610 GHz	100.000 kHz	3.60005 GHz	13.87 dBm	-16.13 dB
3.610 GHz	3.611 GHz	200.000 kHz	3.61061 GHz	-35.29 dBm	-22.29 dB
3.611 GHz	3.620 GHz	1.000 MHz	3.61978 GHz	-28.19 dBm	-15.19 dB
3.620 GHz	3.650 GHz	1.000 MHz	3.63233 GHz	-27.82 dBm	-2.82 dB

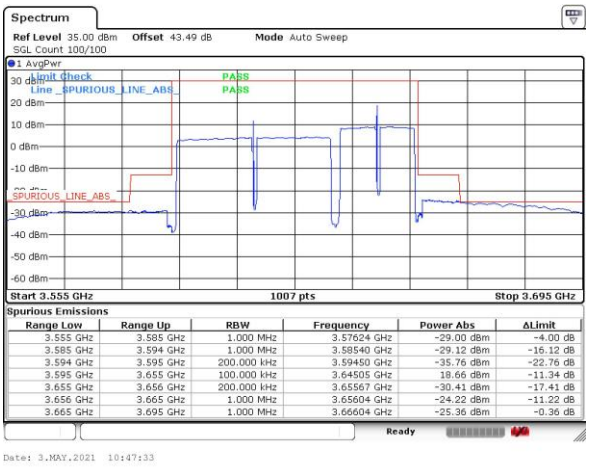
40MHz+40MHz Low Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-40.15 dBm	-0.15 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53946 GHz	-34.61 dBm	-9.61 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54878 GHz	-30.97 dBm	-17.97 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54908 GHz	-37.68 dBm	-24.68 dB
3.550 GHz	3.630 GHz	100.000 kHz	3.60995 GHz	14.57 dBm	-15.43 dB
3.630 GHz	3.631 GHz	200.000 kHz	3.63090 GHz	-34.61 dBm	-21.61 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63113 GHz	-28.45 dBm	-15.45 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64356 GHz	-28.41 dBm	-3.41 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74361 GHz	-46.11 dBm	-6.11 dB

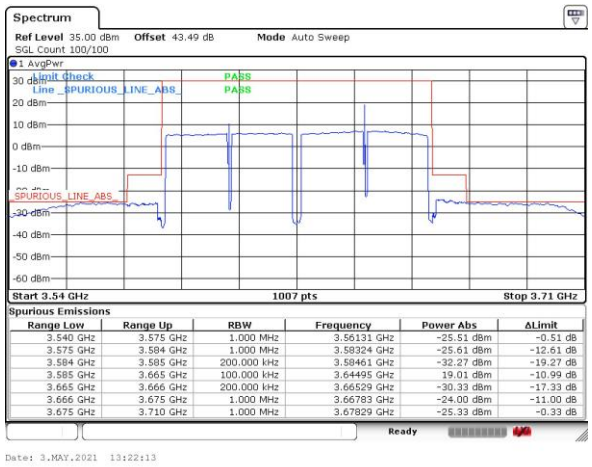
40MHz+20MHz Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.555 GHz	3.585 GHz	1.000 MHz	3.57624 GHz	-29.00 dBm	-4.00 dB
3.585 GHz	3.594 GHz	1.000 MHz	3.58540 GHz	-29.12 dBm	-16.12 dB
3.594 GHz	3.595 GHz	200.000 kHz	3.59450 GHz	-35.76 dBm	-22.76 dB
3.595 GHz	3.655 GHz	100.000 kHz	3.64505 GHz	18.66 dBm	-11.34 dB
3.655 GHz	3.656 GHz	200.000 kHz	3.65567 GHz	-30.41 dBm	-17.41 dB
3.656 GHz	3.665 GHz	1.000 MHz	3.65604 GHz	-24.22 dBm	-11.22 dB
3.665 GHz	3.695 GHz	1.000 MHz	3.66604 GHz	-25.36 dBm	-0.36 dB

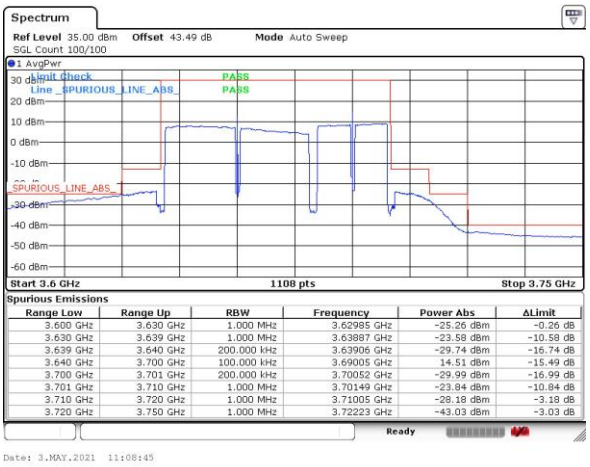
40MHz+40MHz Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.575 GHz	1.000 MHz	3.56131 GHz	-25.51 dBm	-0.51 dB
3.575 GHz	3.584 GHz	1.000 MHz	3.58324 GHz	-25.61 dBm	-12.61 dB
3.584 GHz	3.585 GHz	200.000 kHz	3.58461 GHz	-32.27 dBm	-19.27 dB
3.585 GHz	3.665 GHz	100.000 kHz	3.64495 GHz	19.01 dBm	-10.99 dB
3.665 GHz	3.666 GHz	200.000 kHz	3.66529 GHz	-30.33 dBm	-17.33 dB
3.666 GHz	3.675 GHz	1.000 MHz	3.66783 GHz	-24.00 dBm	-11.00 dB
3.675 GHz	3.710 GHz	1.000 MHz	3.67829 GHz	-25.33 dBm	-0.33 dB

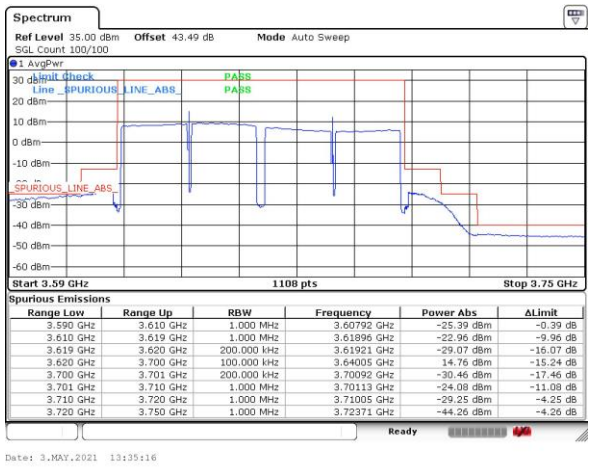
40MHz+20MHz High Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.630 GHz	1.000 MHz	3.62985 GHz	-25.26 dBm	-0.26 dB
3.630 GHz	3.639 GHz	1.000 MHz	3.63887 GHz	-23.58 dBm	-10.58 dB
3.639 GHz	3.640 GHz	200.000 kHz	3.63906 GHz	-29.74 dBm	-16.74 dB
3.640 GHz	3.700 GHz	100.000 kHz	3.69005 GHz	14.51 dBm	-15.49 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70052 GHz	-29.99 dBm	-16.99 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70149 GHz	-23.84 dBm	-10.84 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-28.18 dBm	-3.18 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72223 GHz	-43.03 dBm	-3.03 dB

40MHz+40MHz High Channel

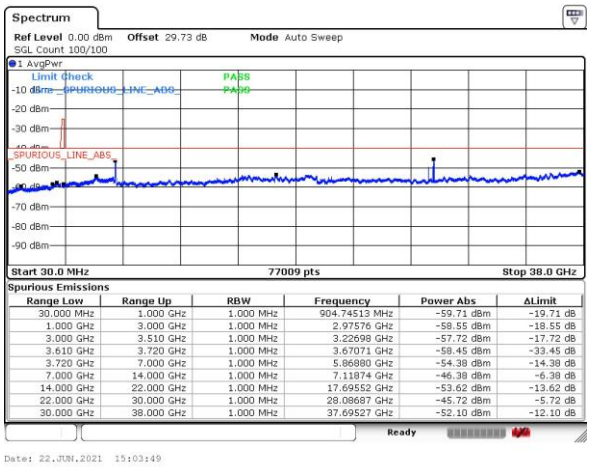


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.590 GHz	3.610 GHz	1.000 MHz	3.60792 GHz	-25.39 dBm	-0.39 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61896 GHz	-22.96 dBm	-9.96 dB
3.619 GHz	3.620 GHz	200.000 kHz	3.61921 GHz	-29.07 dBm	-16.07 dB
3.620 GHz	3.700 GHz	100.000 kHz	3.64005 GHz	14.76 dBm	-15.24 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70092 GHz	-30.46 dBm	-17.46 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-24.08 dBm	-11.08 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-29.25 dBm	-4.25 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72371 GHz	-44.26 dBm	-4.26 dB

Conducted Spurious Emission

20MHz+20MHz_Low Channel

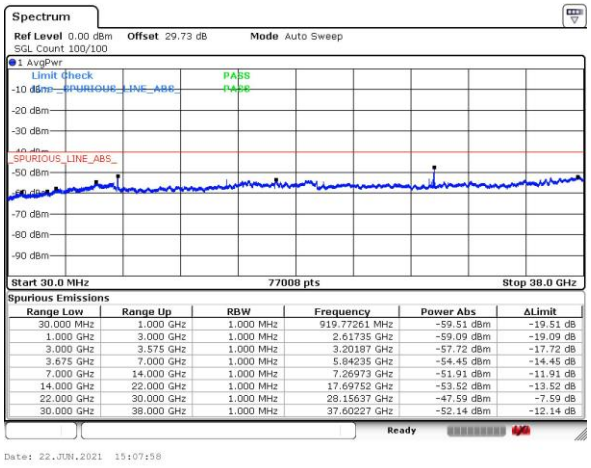


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	904.74513 MHz	-59.71 dBm	-19.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97576 GHz	-58.55 dBm	-18.55 dB
3.000 GHz	3.510 GHz	1.000 MHz	3.22698 GHz	-57.72 dBm	-17.72 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.67071 GHz	-58.45 dBm	-33.45 dB
3.720 GHz	7.000 GHz	1.000 MHz	5.86880 GHz	-54.38 dBm	-14.38 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.11874 GHz	-46.38 dBm	-6.38 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.69552 GHz	-53.62 dBm	-13.62 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.08687 GHz	-45.72 dBm	-5.72 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.69527 GHz	-52.10 dBm	-12.10 dB

Date: 22.JUN.2021 15:03:49

20MHz+20MHz_Middle Channel

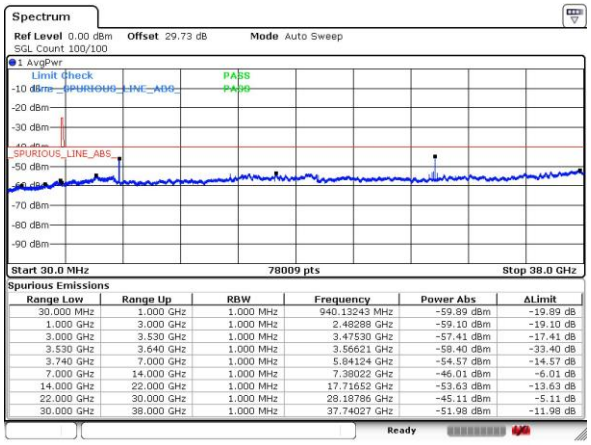


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	919.77261 MHz	-59.51 dBm	-19.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.61735 GHz	-59.09 dBm	-19.09 dB
3.000 GHz	3.575 GHz	1.000 MHz	3.20187 GHz	-57.72 dBm	-17.72 dB
3.675 GHz	7.000 GHz	1.000 MHz	5.84235 GHz	-54.45 dBm	-14.45 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.26973 GHz	-51.91 dBm	-11.91 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.69752 GHz	-53.52 dBm	-13.52 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.15637 GHz	-47.59 dBm	-7.59 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.60227 GHz	-52.14 dBm	-12.14 dB

Date: 22.JUN.2021 15:07:58

20MHz+20MHz_High Channel

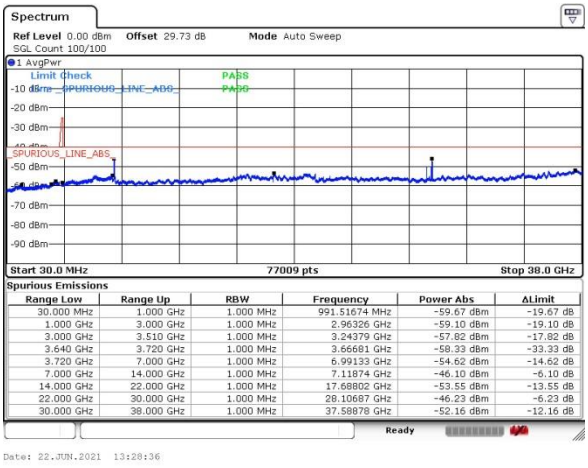


Spurious Emissions

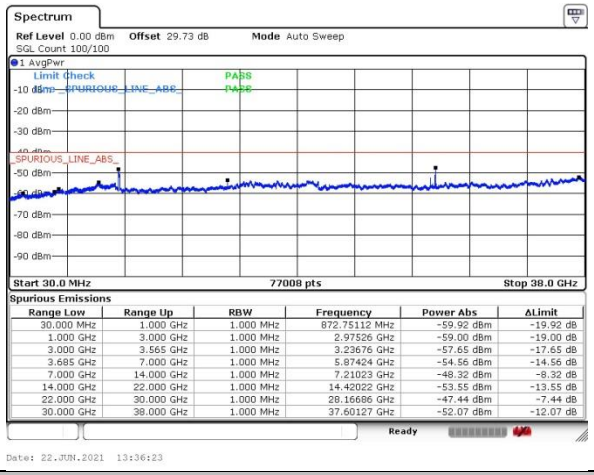
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-59.89 dBm	-19.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48288 GHz	-59.10 dBm	-19.10 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.47530 GHz	-57.41 dBm	-17.41 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.56621 GHz	-58.40 dBm	-33.40 dB
3.740 GHz	7.000 GHz	1.000 MHz	5.84124 GHz	-54.57 dBm	-14.57 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.38022 GHz	-46.01 dBm	-6.01 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.71652 GHz	-53.63 dBm	-13.63 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.18786 GHz	-45.11 dBm	-5.11 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.74027 GHz	-51.98 dBm	-11.98 dB

Date: 22.JUN.2021 13:25:03

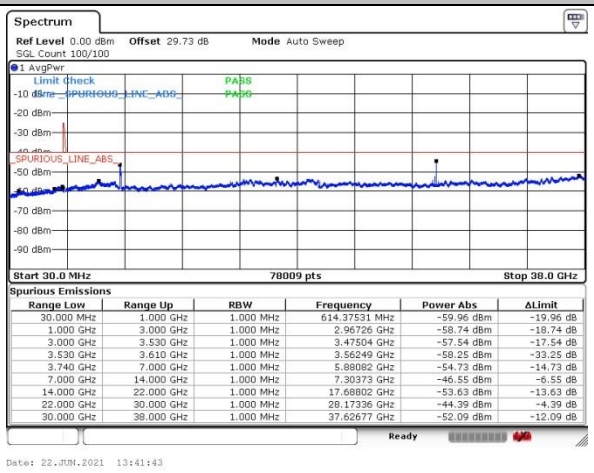
20MHz+40MHz_Low Channel



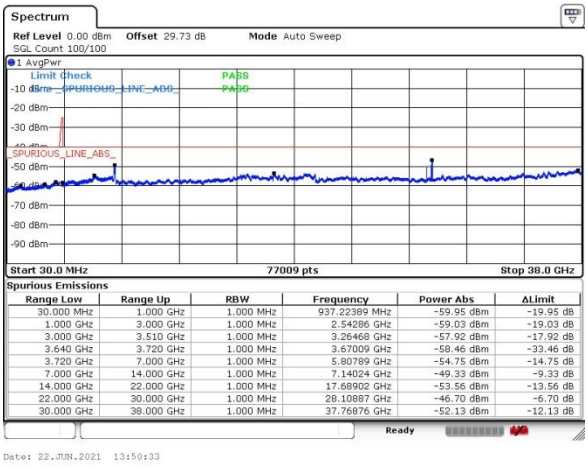
20MHz+40MHz_Middle Channel



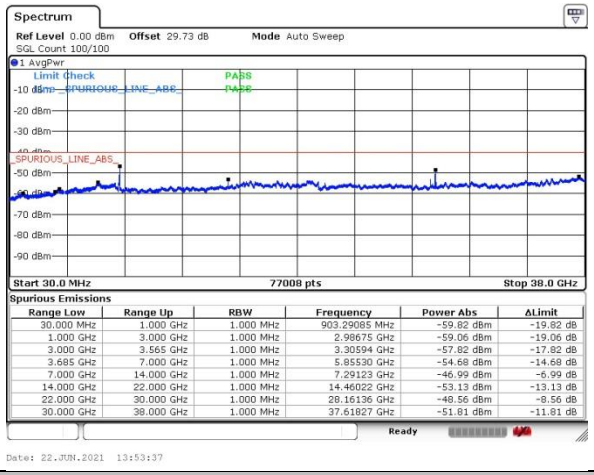
20MHz+40MHz_High Channel



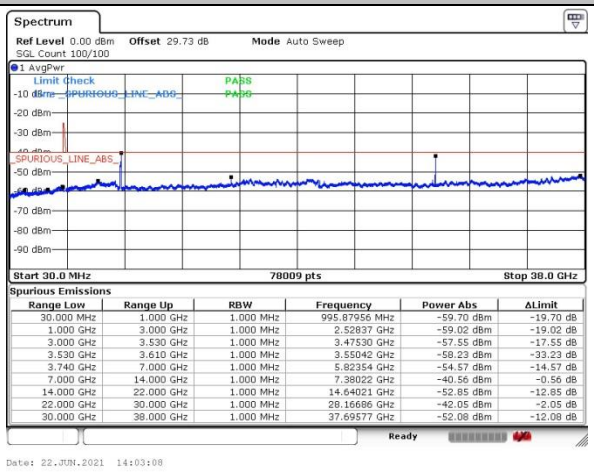
40MHz+20MHz_Low Channel



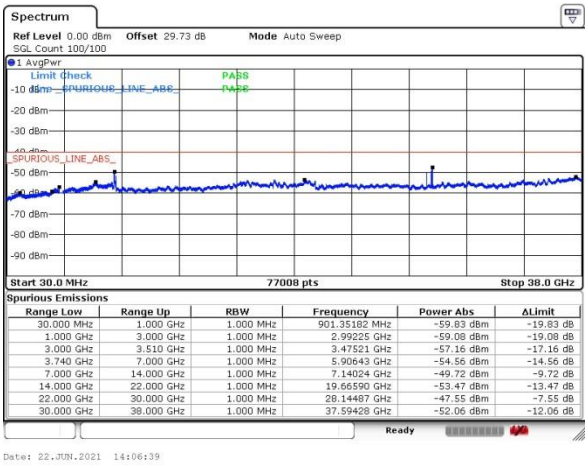
40MHz+20MHz_Middle Channel



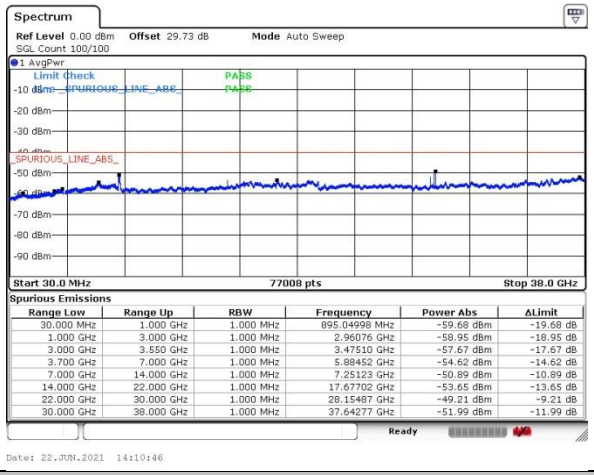
40MHz+20MHz_High Channel



40MHz+40MHz_Low Channel



40MHz+40MHz_Middle Channel



40MHz+40MHz_High Channel