

SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G



XMIT 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Signal Analyzer	Keysight	N9030B	R332	2022-07-28	2023-07-28
Attenuator	Fairview Microwave	SA3N10W-20	RKY	2022-11-15	2023-11-15
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2022-09-08	2023-09-08

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 4 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 40 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB 971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for the frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

RF conducted emissions testing was performed on the worst case (highest average power) port by band. The AQQQA antenna ports are all within the manufacturer's rated output power tolerances (the RF power variation between antenna ports is small as shown in this certification testing) and the antenna port 57 for the 3.45GHz band was selected to perform the testing for this effort.

Per section 27.53(n), the power of any emission outside band edge region (frequency ranges below 3430MHz and above 3570MHz) cannot exceed -58.1 dBm/MHz. The limit is adjusted to -58.1 dBm [-40 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 64 port MIMO transmitter. The resolution bandwidth to be used for these measurements must be ≥ 1 MHz per FCC 27.53(n)(1).

The spurious emission testing was performed using only one modulation type because the Occupied Bandwidth variation between modulation types is small, the average output power variation between modulation types is small, the highest average power (worst case) port was used for testing, and there is significant/good passing margin. The highest rate modulation type (256QAM) was used. (See ANSI C63.26. clause 5.7.2e)

SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G



ThxTV 2022.06.03.0 XMM 2022.02.07.0

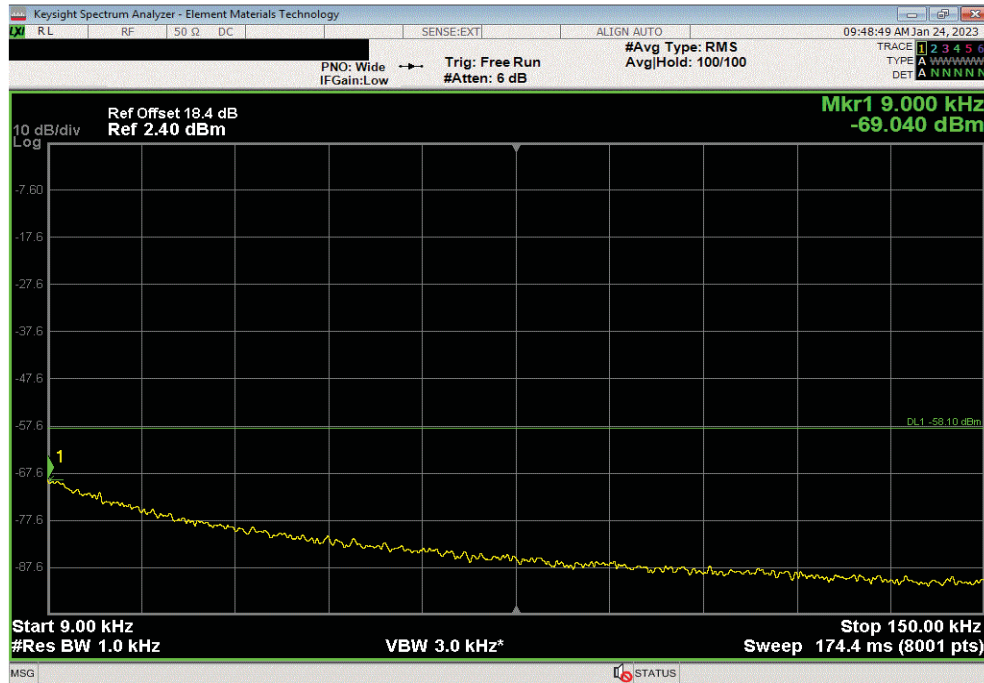
EUT: AQQQA		Work Order: NOKI0052				
Serial Number: YK224300010		Date: 25-Jan-23				
Customer: Nokia of America Corporation		Temperature: 23.3 °C				
Attendees: John Rattanavong, Michell Hill		Humidity: 29.6% RH				
Project: None		Barometric Pres.: 1023 mbar				
Tested by: Brandon Hobbs		Job Site: TX07				
Power: 54 VDC						
TEST SPECIFICATIONS		Test Method				
FCC 27:2023		ANSI C63.26:2015				
COMMENTS						
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. Band n77 carriers were enabled at maximum power levels for the 3.45GHz band (at 3.125 watts/carrier for NR40 and at 2.5 watts/carrier for NR20 & NR30) in the single carrier operating mode configuration. Refer to band edge section for measurements of frequency ranges with limits other than -58.1dBm/MHz.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	1,4,6,7	Signature 				
		Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
Port 57						
Band n77, 3450 - 3550 MHz						
20 MHz Bandwidth						
256QAM Modulation						
	Mid Channel, 3500.01 MHz	9 kHz - 150 kHz	0.01	-69.0	-58.1	Pass
	Mid Channel, 3500.01 MHz	150 kHz - 30 MHz	0.15	-70.5	-58.1	Pass
	Mid Channel, 3500.01 MHz	30 MHz - 3.43 GHz	3060.25	-63.1	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.57 GHz - 6 GHz	3816.65	-66.5	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.4 GHz - 3.6 GHz	3448.5	-39.5	-31.1	Pass
	Mid Channel, 3500.01 MHz	6 GHz - 13 GHz	9792.25	-66.3	-58.1	Pass
	Mid Channel, 3500.01 MHz	13 GHz - 40 GHz	38861	-63.4	-58.1	Pass
30 MHz Bandwidth						
256QAM Modulation						
	Mid Channel, 3500.01 MHz	9 kHz - 150 kHz	0.01	-69.5	-58.1	Pass
	Mid Channel, 3500.01 MHz	150 kHz - 30 MHz	0.15	-70.6	-58.1	Pass
	Mid Channel, 3500.01 MHz	30 MHz - 3.43 GHz	3104.45	-62.9	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.57 GHz - 6 GHz	3815.43	-66.4	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.4 GHz - 3.6 GHz	3448.5	-39.2	-31.1	Pass
	Mid Channel, 3500.01 MHz	6 GHz - 13 GHz	10639.25	-66.1	-58.1	Pass
	Mid Channel, 3500.01 MHz	13 GHz - 40 GHz	38864	-63.6	-58.1	Pass
40 MHz Bandwidth						
256QAM Modulation						
	Mid Channel, 3500.01 MHz	9 kHz - 150 kHz	0.01	-67.8	-58.1	Pass
	Mid Channel, 3500.01 MHz	150 kHz - 30 MHz	0.15	-70.5	-58.1	Pass
	Mid Channel, 3500.01 MHz	30 MHz - 3.43 GHz	3123.58	-62.9	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.57 GHz - 6 GHz	3760.15	-67.6	-58.1	Pass
	Mid Channel, 3500.01 MHz	3.4 GHz - 3.6 GHz	3448.5	-38.1	-31.1	Pass
	Mid Channel, 3500.01 MHz	6 GHz - 13 GHz	10601.8	-66.1	-58.1	Pass
	Mid Channel, 3500.01 MHz	13 GHz - 40 GHz	38861	-64.1	-58.1	Pass

SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

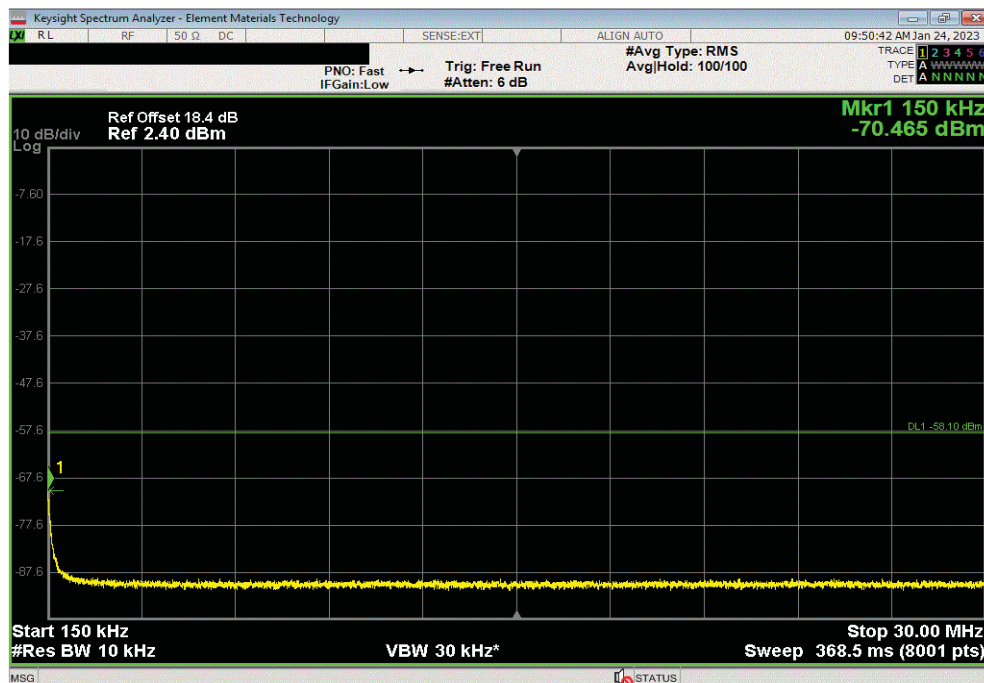


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-69.04	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.15	-70.47	-58.1	Pass	

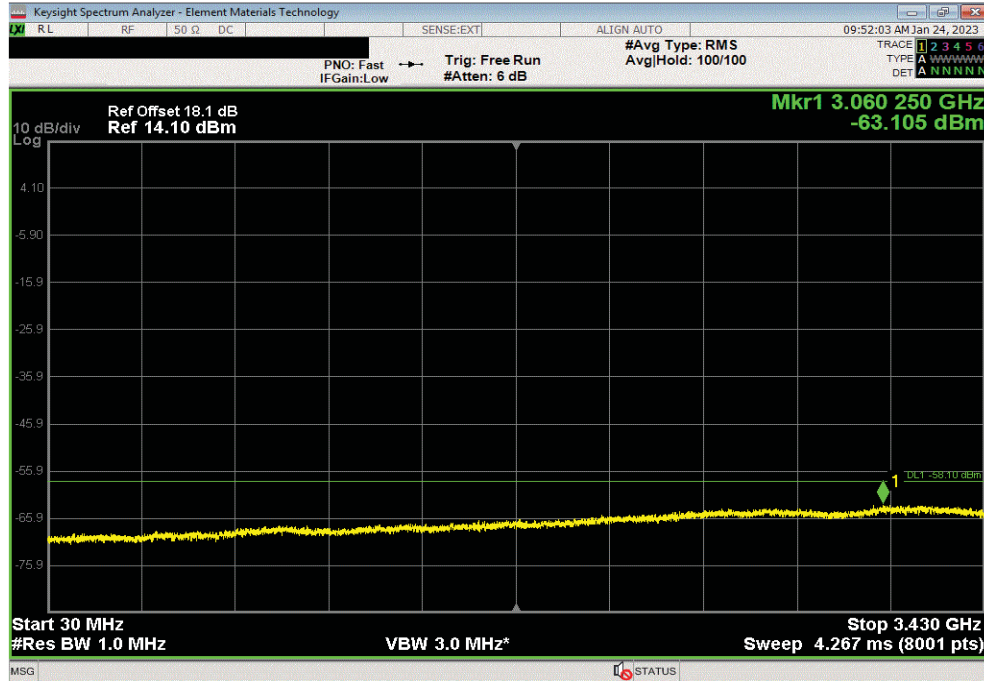


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

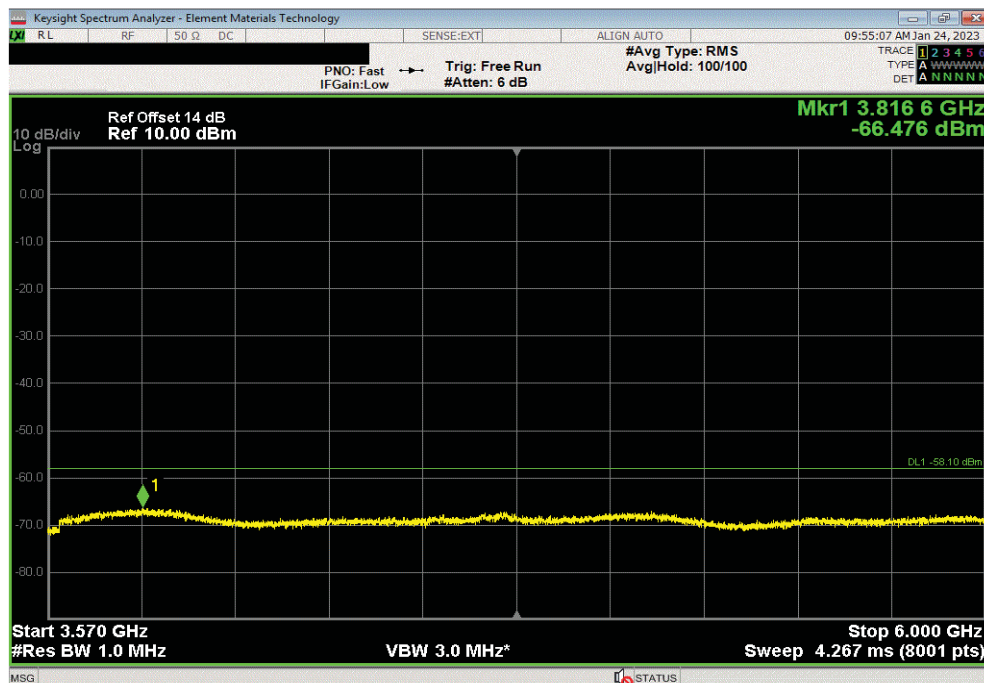


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.43 GHz	3060.25	-63.11	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.57 GHz - 6 GHz	3816.65	-66.48	-58.1	Pass	

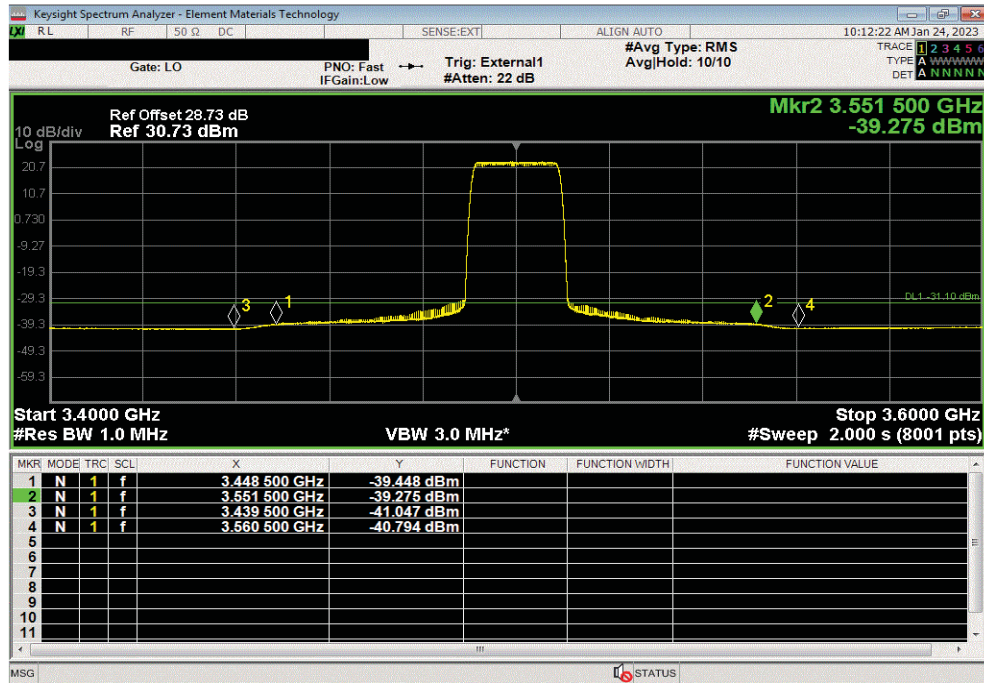


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

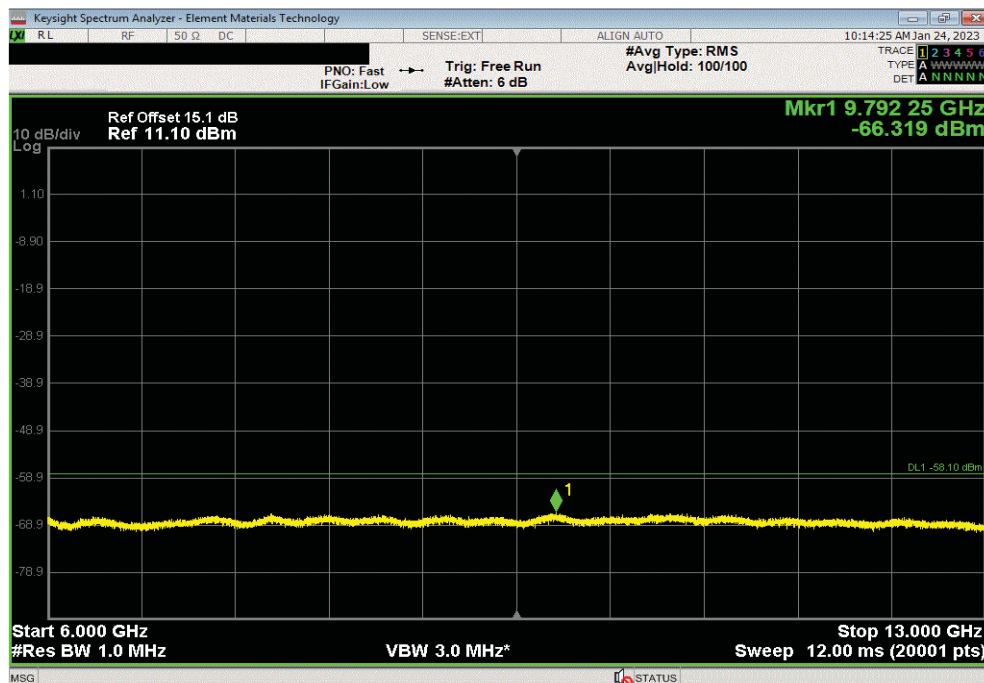


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 3.6 GHz	3448.5	-39.45	-31.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	9792.25	-66.32	-58.1	Pass	

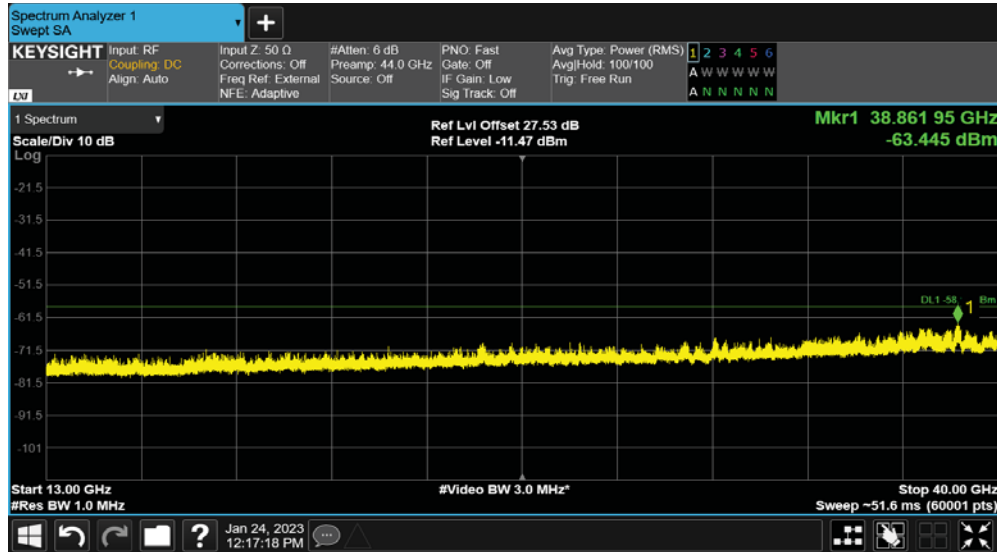


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

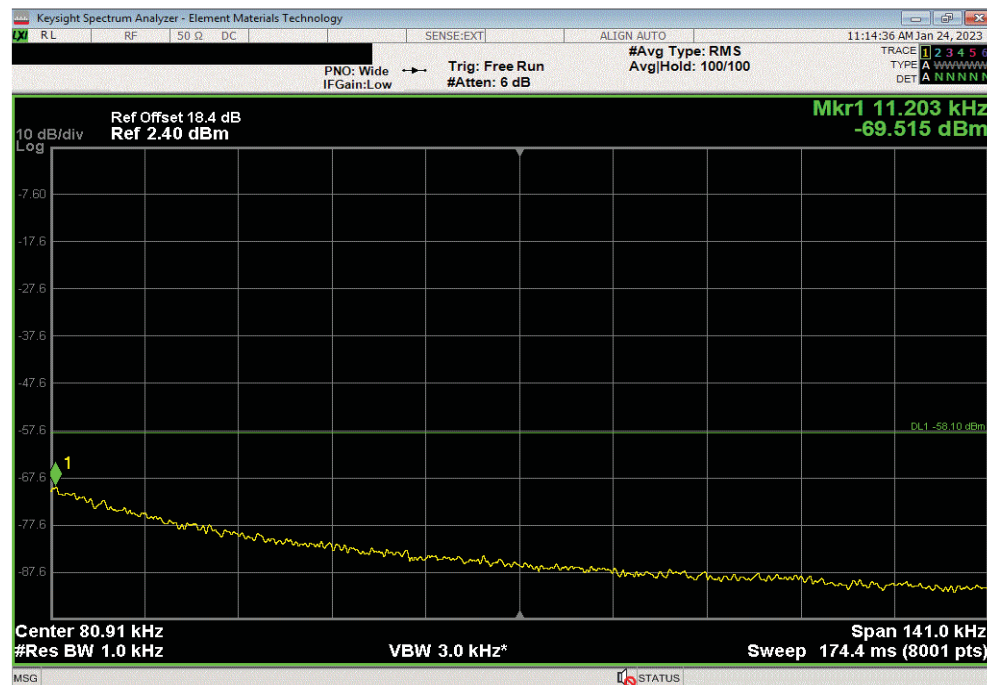


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38861	-63.445	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-69.52	-58.1	Pass	

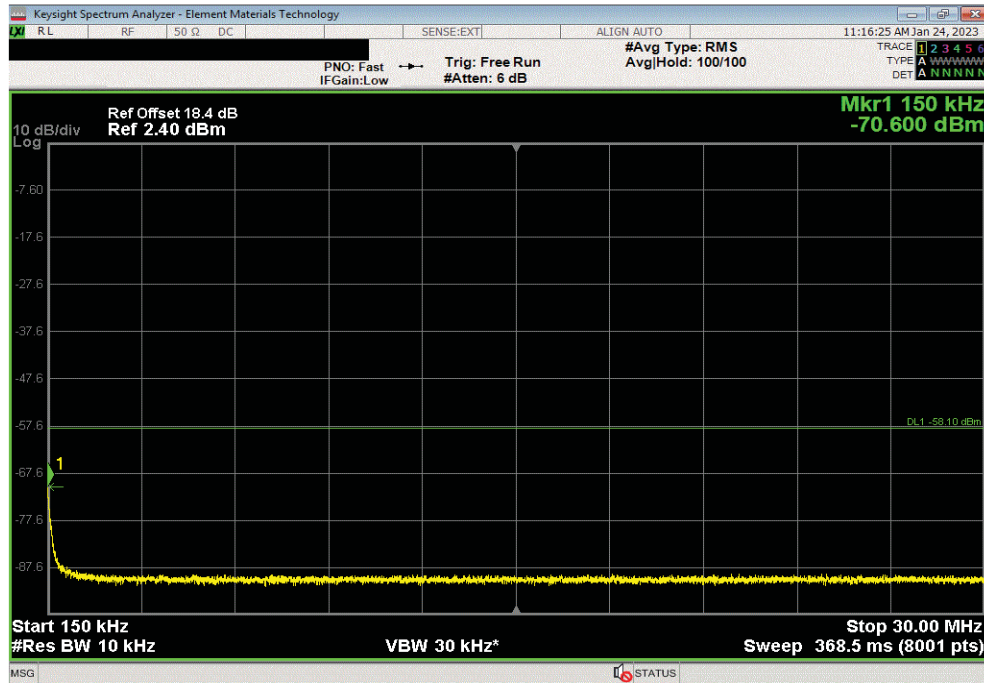


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

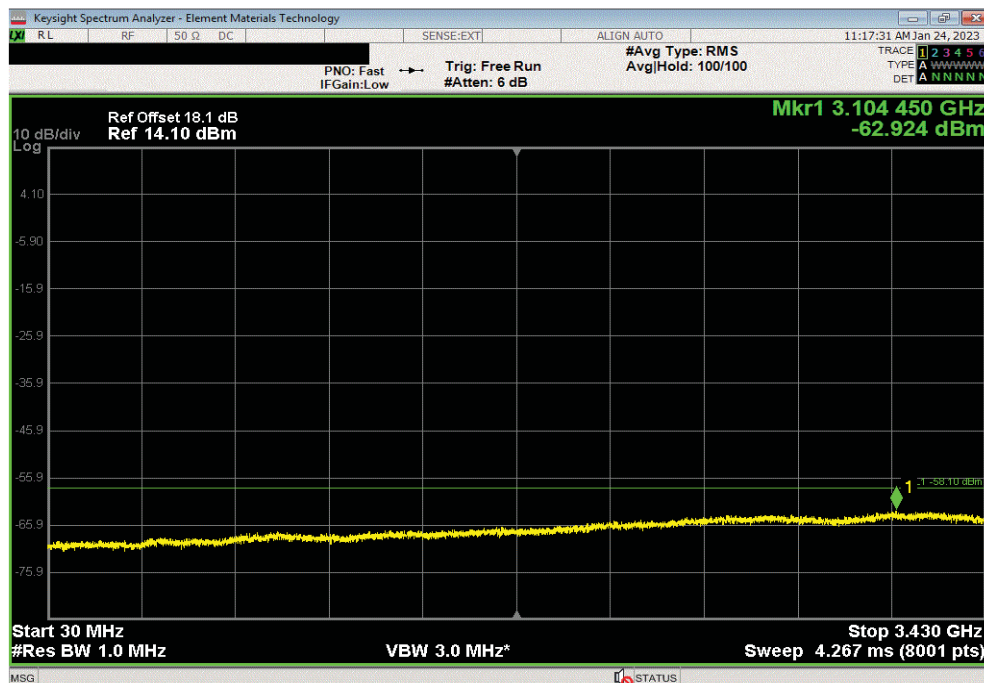


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.15	-70.6	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.43 GHz	3104.45	-62.92	-58.1	Pass	

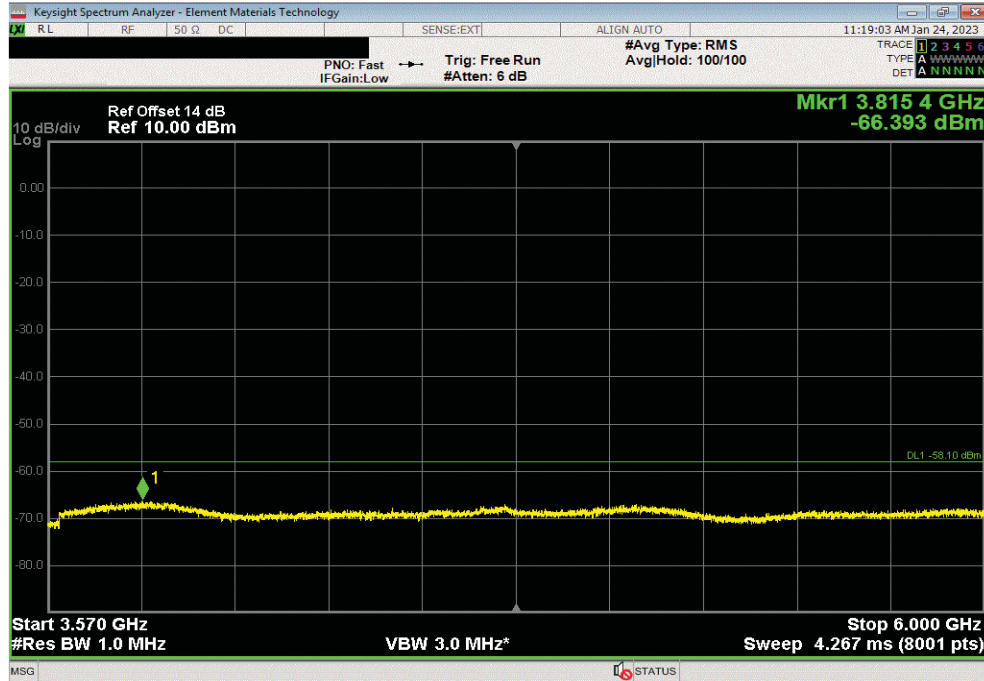


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

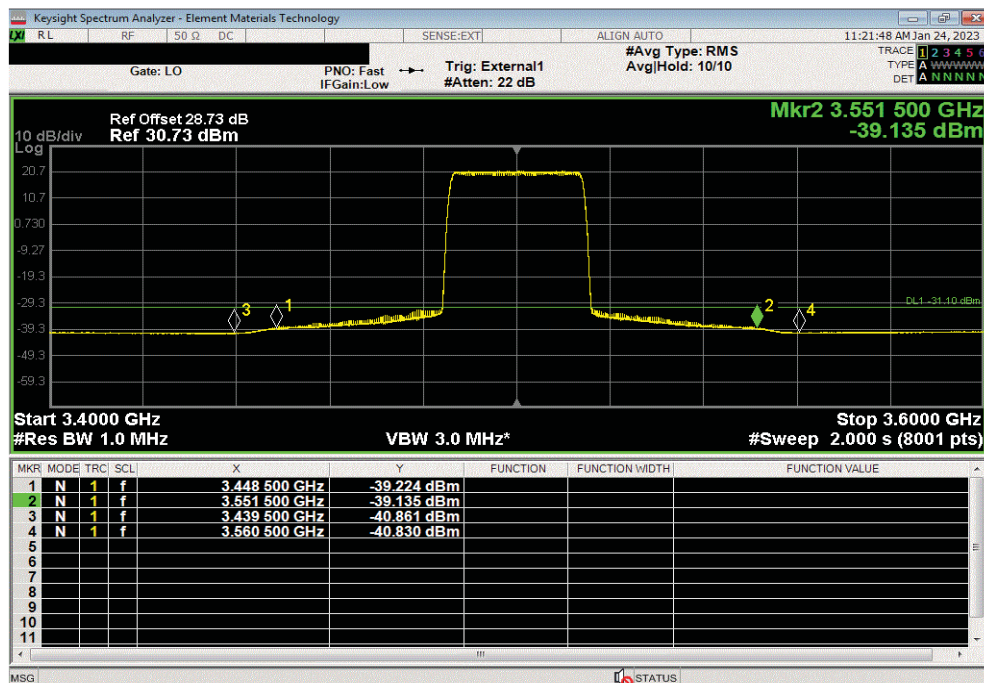


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.57 GHz - 6 GHz	3815.43	-66.39	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 3.6 GHz	3448.5	-39.22	-31.1	Pass	

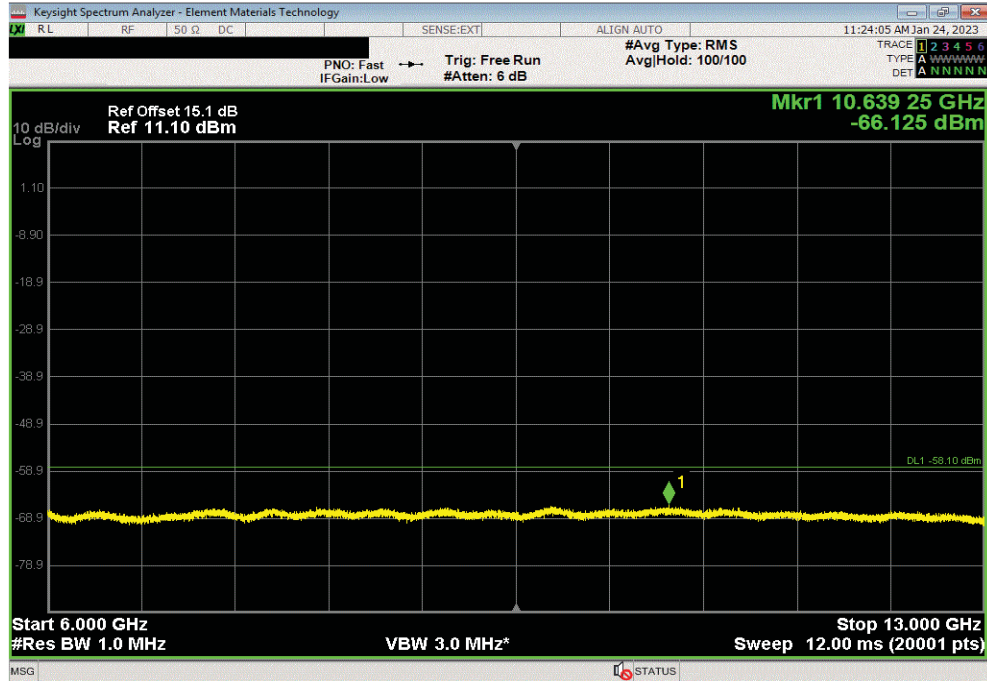


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

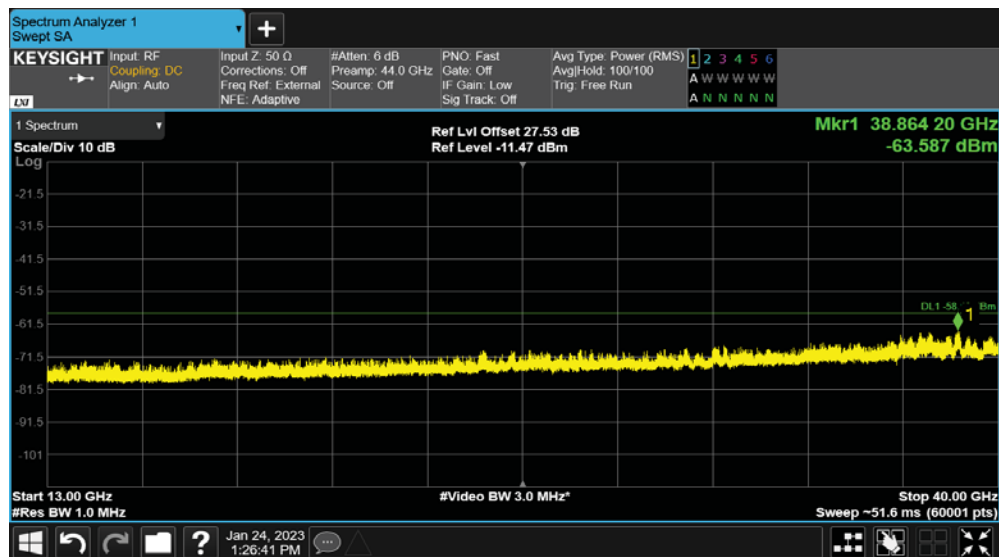


TbTx 2022.06.03.0 XbTx 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	10639.25	-66.13	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 30 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38864	-63.587	-58.1	Pass	

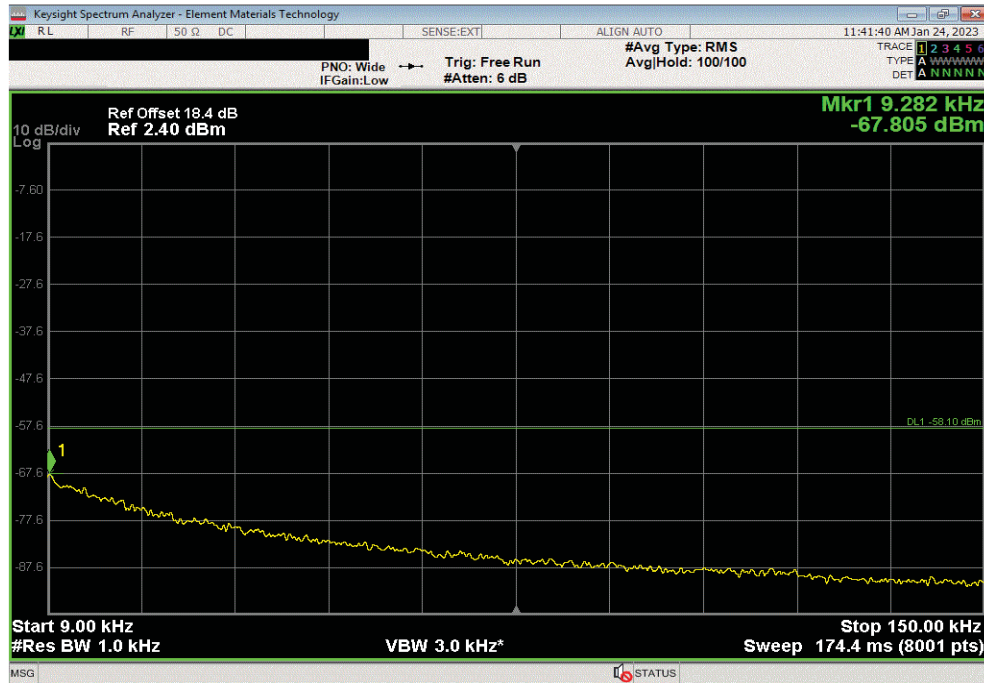


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

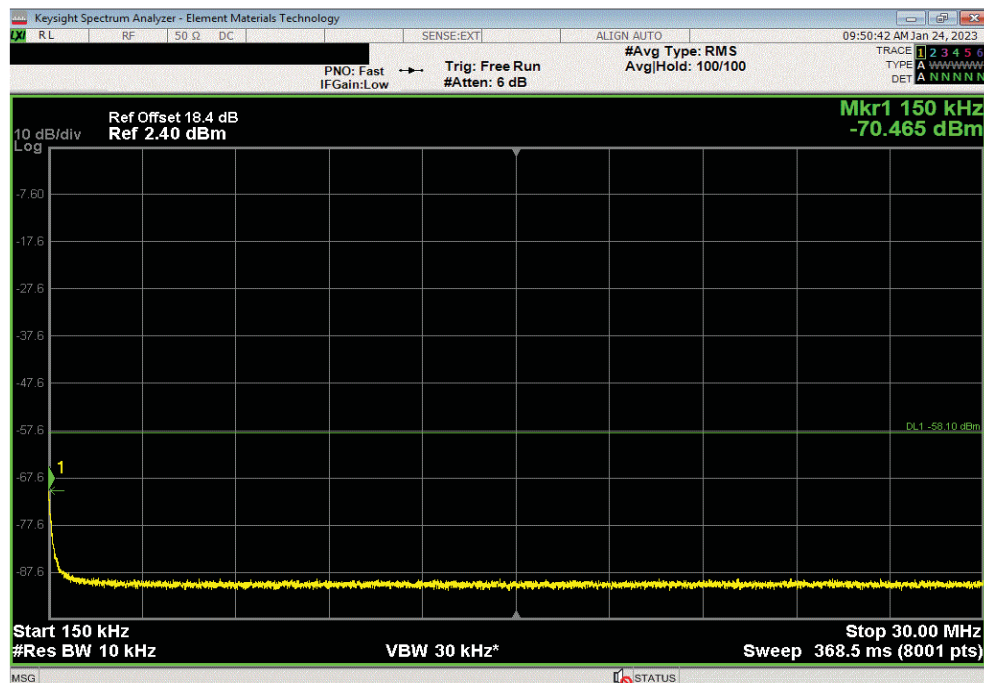


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-67.81	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.15	-70.5	-58.1	Pass	

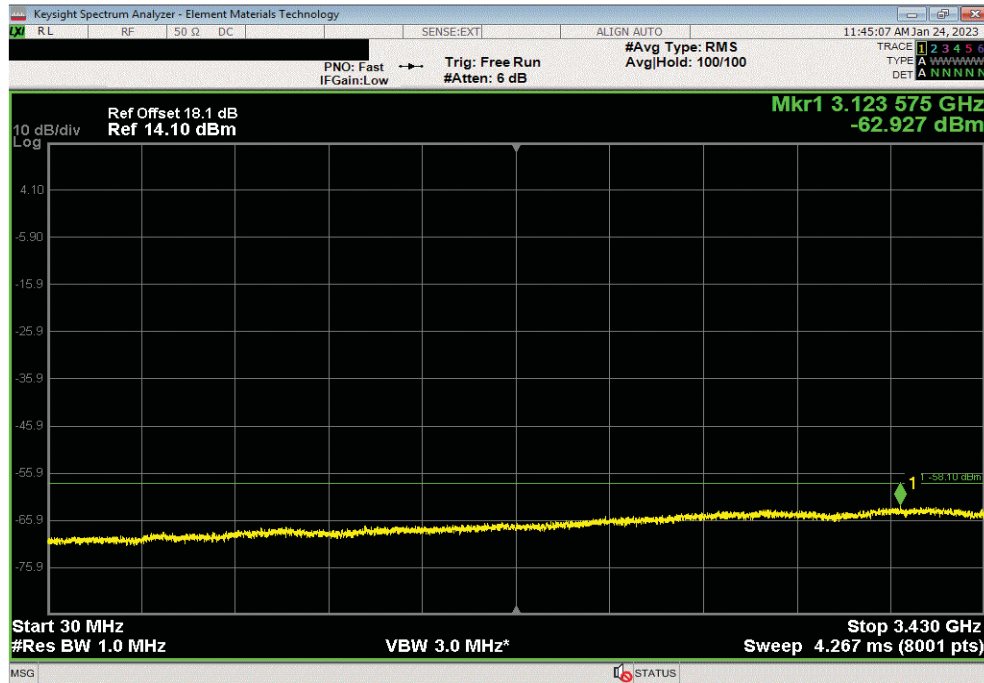


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

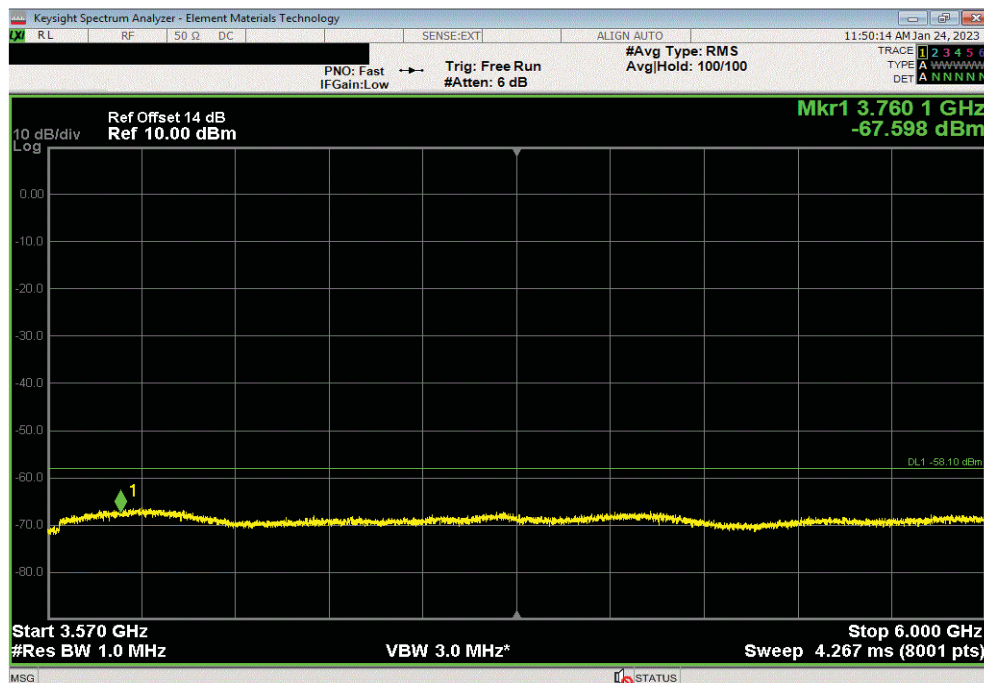


TbTx 2022.06.03.0 XMt 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.43 GHz	3123.58	-62.93	-58.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.57 GHz - 6 GHz	3760.15	-67.6	-58.1	Pass	

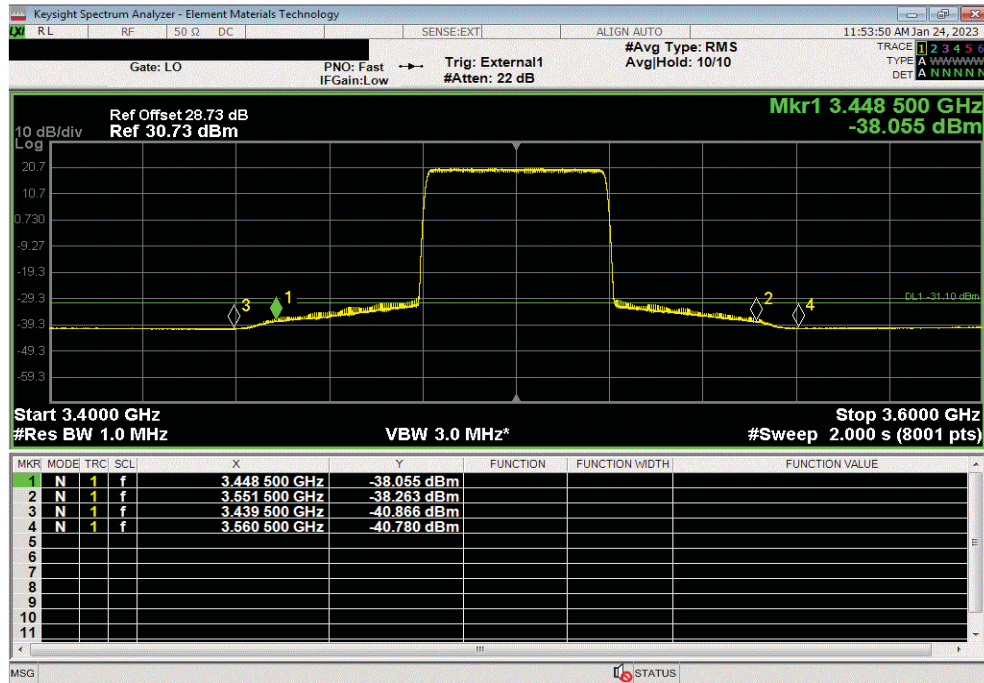


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G

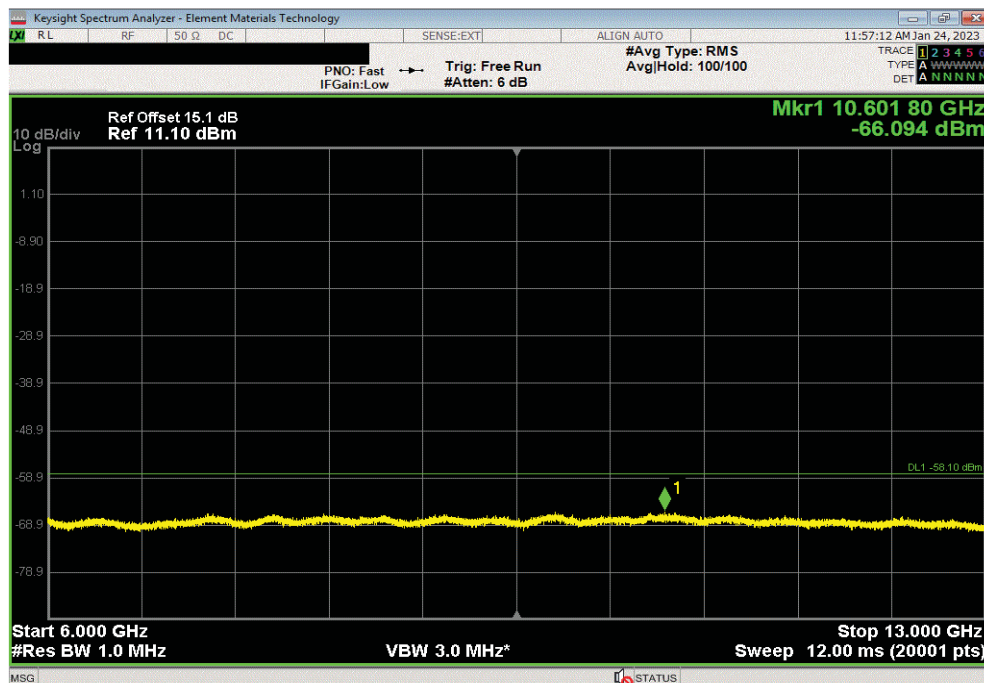


TbTtx 2022.06.03.0 XMit 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 3.6 GHz	3448.5	-38.06	-31.1	Pass	



Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	10601.8	-66.09	-58.1	Pass	

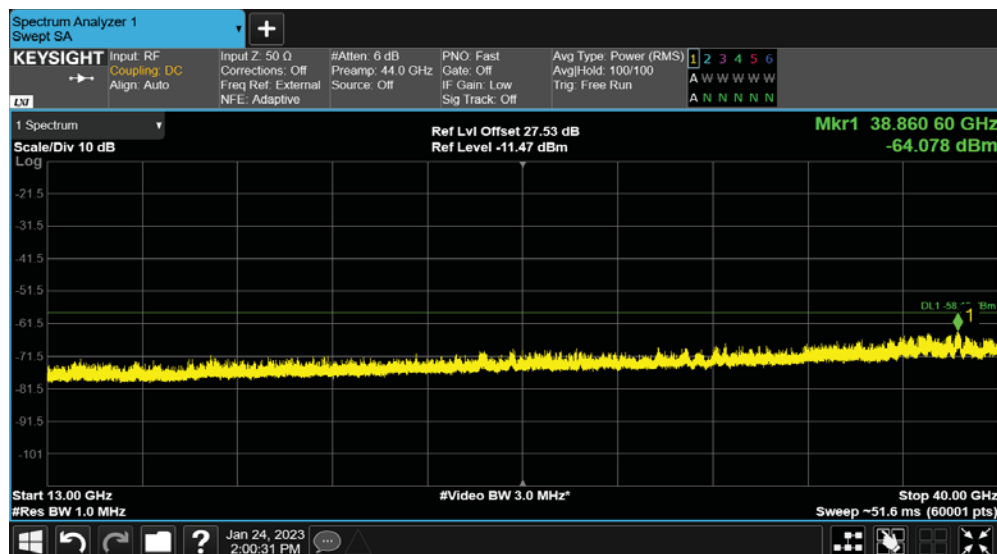


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.45G



TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 57, Band n77, 3450 - 3550 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3500.01 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38861	-64.078	-58.1	Pass	



SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G



XMIT 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Signal Analyzer	Keysight	N9030B	R332	2022-07-28	2023-07-28
Attenuator	Fairview Microwave	SA3N10W-20	RKY	2022-11-15	2023-11-15
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2022-09-08	2023-09-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 4 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 40 GHz. The conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB 971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for the frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

RF conducted emissions testing was performed on the worst case (highest average power) port by band. The AQQQA antenna ports are all within the manufacturer's rated output power tolerances (the RF power variation between antenna ports is small as shown in this certification testing) and the antenna port 22 for the 3.7GHz band was selected to perform the testing for this effort.

Per section 27.53(l)(1), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm/MHz. The limit is adjusted to -31.1 dBm [-13 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 64 port MIMO transmitter. The resolution bandwidth to be used for these measurements must be ≥ 1 MHz per FCC 27.53(l)(1).

The spurious emission testing was performed using only one modulation type because the Occupied Bandwidth variation between modulation types is small, the average output power variation between modulation types is small, the highest average power (worst case) port was used for testing, and there is significant/good passing margin. The highest rate modulation type (256QAM) was used. (See ANSI C63.26. clause 5.7.2e)

SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G



EUT: AQQA

Serial Number: YK224300010

Customer: Nokia of America Corporation

Attendees: John Rattanaovong, Michell Hill

Project: None

Tested by: Brandon Hobbs

Power: 54 VDC

Job Site: TX07

Work Order: NOKI0052

Date: 25-Jan-23

Temperature: 23 °C

Humidity: 29% RH

Barometric Pres.: 1023 mbar

TEST SPECIFICATIONS

FCC 27:2023

Test Method

ANSI C63.26:2015

COMMENTS

All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. Band n77 carriers were enabled at maximum power levels for the 3.7GHz band (at 2.5 watts/carrier for NR20 and at 5 watts/carrier for NR40, NR60, NR80 & NR100) in the single carrier operating mode configuration.

DEVIATIONS FROM TEST STANDARD

None

Configuration #

2,5,6,7

Signature



Port 22

Band n77, 3700 - 3980 MHz

20 MHz Bandwidth

256QAM Modulation

Mid Channel, 3840 MHz

9 kHz - 150 kHz

0.01

-77.1

-31.1

Pass

Mid Channel, 3840 MHz

150 kHz - 30 MHz

0.15

-78.6

-31.1

Pass

Mid Channel, 3840 MHz

30 MHz - 3.4 GHz

3180.53

-67.5

-31.1

Pass

Mid Channel, 3840 MHz

3.4 GHz - 6 GHz

3698.5

-35.1

-31.1

Pass

Mid Channel, 3840 MHz

6 GHz - 13 GHz

9773.7

-66.3

-31.1

Pass

Mid Channel, 3840 MHz

13 GHz - 40 GHz

38896

-63.0

-31.1

Pass

40 MHz Bandwidth

256QAM Modulation

Mid Channel, 3840 MHz

9 kHz - 150 kHz

0.01

-76.9

-31.1

Pass

Mid Channel, 3840 MHz

150 kHz - 30 MHz

0.16

-79.0

-31.1

Pass

Mid Channel, 3840 MHz

30 MHz - 3.4 GHz

3159.05

-67.6

-31.1

Pass

Mid Channel, 3840 MHz

3.4 GHz - 6 GHz

3698.5

-35.0

-31.1

Pass

Mid Channel, 3840 MHz

6 GHz - 13 GHz

10594.45

-66.5

-31.1

Pass

Mid Channel, 3840 MHz

13 GHz - 40 GHz

38883

-62.5

-31.1

Pass

60 MHz Bandwidth

256QAM Modulation

Mid Channel, 3840 MHz

9 kHz - 150 kHz

0.01

-76.8

-31.1

Pass

Mid Channel, 3840 MHz

150 kHz - 30 MHz

0.15

-78.8

-31.1

Pass

Mid Channel, 3840 MHz

30 MHz - 3.4 GHz

3093.75

-67.4

-31.1

Pass

Mid Channel, 3840 MHz

3.4 GHz - 6 GHz

3698.5

-34.7

-31.1

Pass

Mid Channel, 3840 MHz

6 GHz - 13 GHz

9819.2

-66.1

-31.1

Pass

Mid Channel, 3840 MHz

13 GHz - 40 GHz

38838

-63.8

-31.1

Pass

80 MHz Bandwidth

256QAM Modulation

Mid Channel, 3840 MHz

9 kHz - 150 kHz

0.01

-77.0

-31.1

Pass

Mid Channel, 3840 MHz

150 kHz - 30 MHz

0.16

-79.0

-31.1

Pass

Mid Channel, 3840 MHz

30 MHz - 3.4 GHz

3252.14

-67.6

-31.1

Pass

Mid Channel, 3840 MHz

3.4 GHz - 6 GHz

3698.5

-34.5

-31.1

Pass

Mid Channel, 3840 MHz

6 GHz - 13 GHz

9741.85

-66.2

-31.1

Pass

Mid Channel, 3840 MHz

13 GHz - 40 GHz

38887

-63.7

-31.1

Pass

100 MHz Bandwidth

256QAM Modulation

Mid Channel, 3840 MHz

9 kHz - 150 kHz

0.01

-77.1

-31.1

Pass

Mid Channel, 3840 MHz

150 kHz - 30 MHz

0.15

-78.4

-31.1

Pass

Mid Channel, 3840 MHz

30 MHz - 3.4 GHz

3229.39

-67.7

-31.1

Pass

Mid Channel, 3840 MHz

3.4 GHz - 6 GHz

3698.5

-34.7

-31.1

Pass

Mid Channel, 3840 MHz

6 GHz - 13 GHz

9717.7

-66.4

-31.1

Pass

Mid Channel, 3840 MHz

13 GHz - 40 GHz

38845

-63.3

-31.1

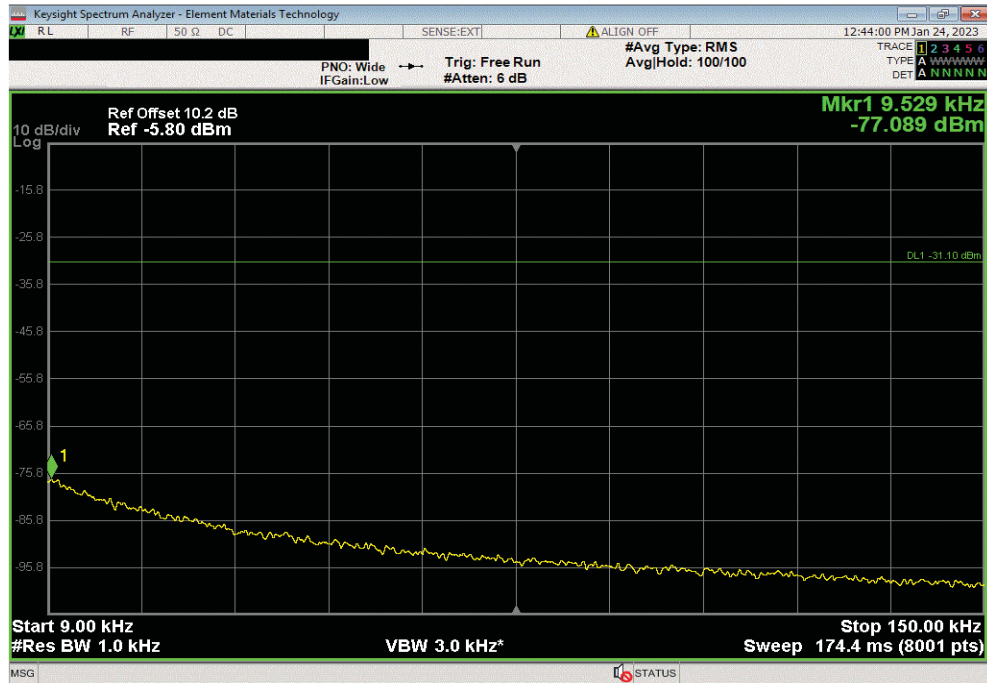
Pass

SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

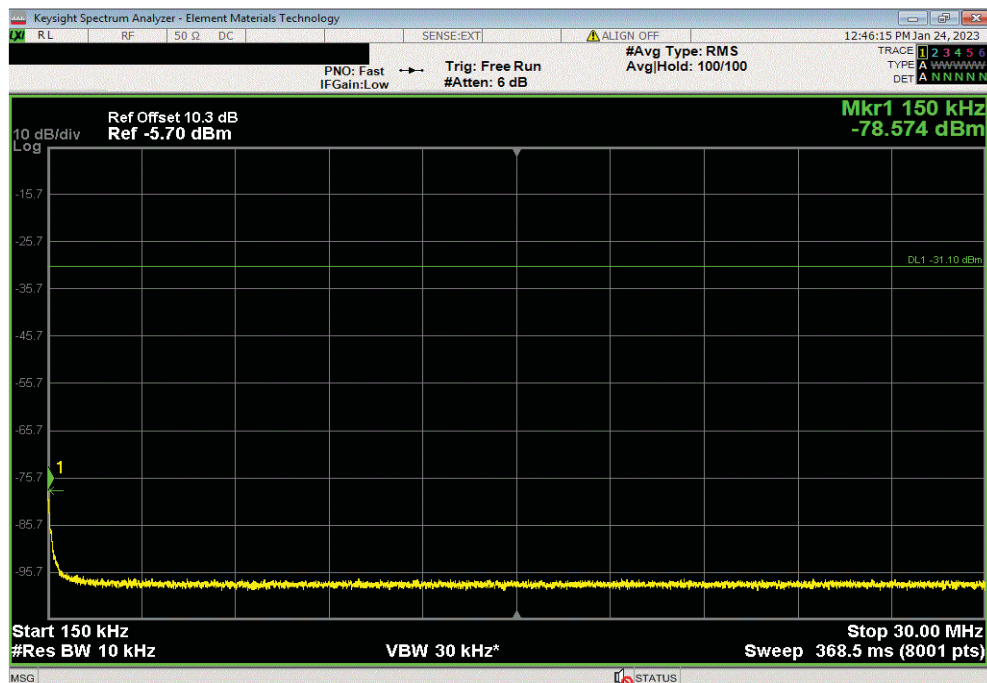


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-77.09	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
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150 kHz - 30 MHz	0.15	-78.57	-31.1	Pass	

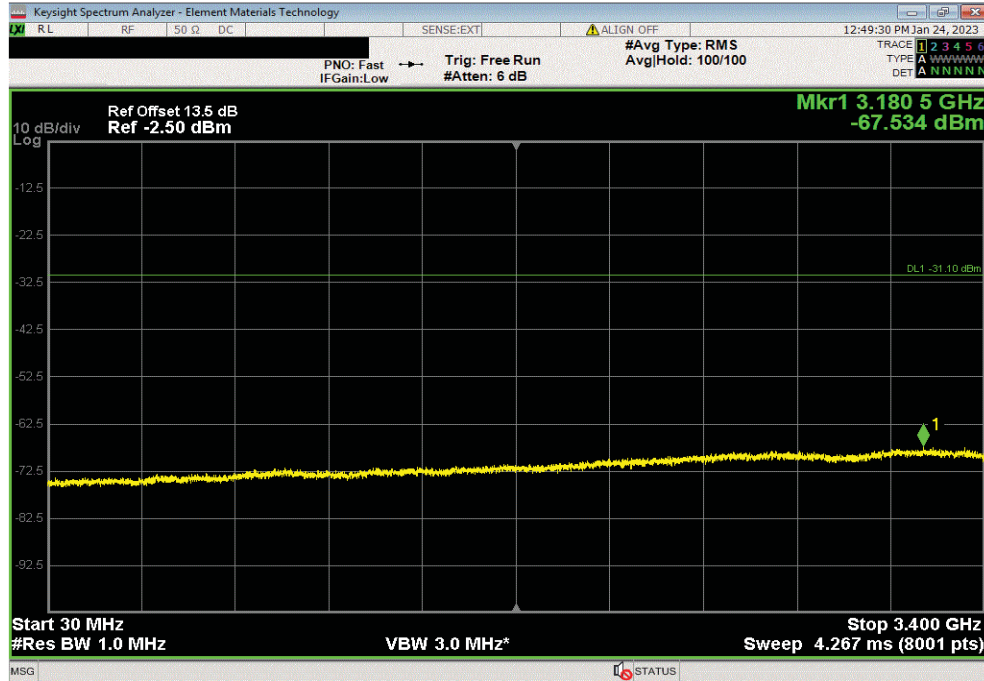


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

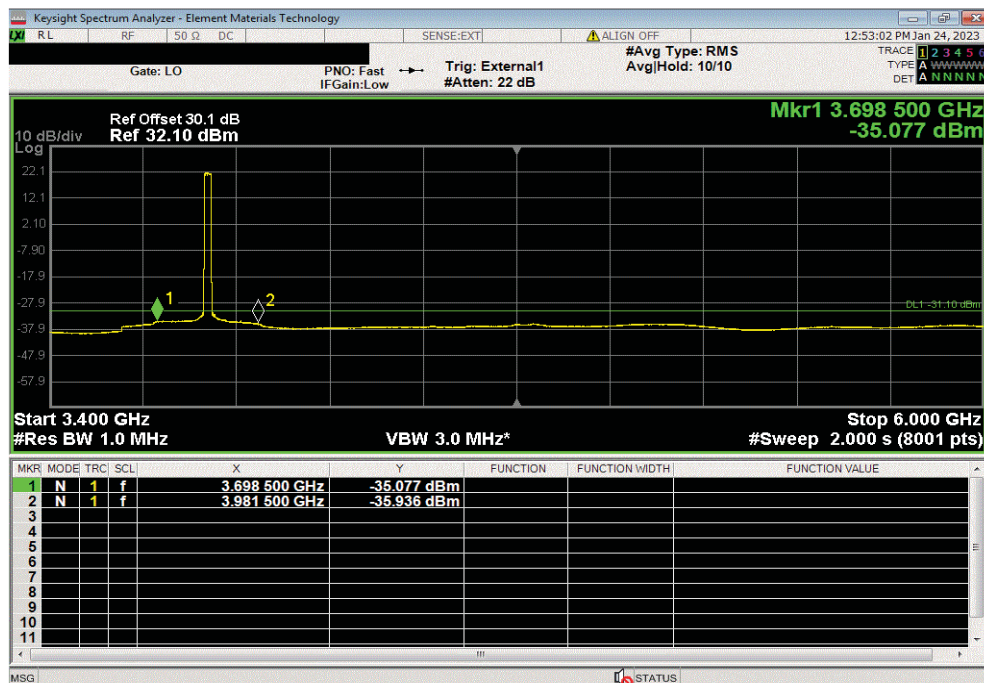


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.4 GHz	3180.53	-67.53	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 6 GHz	3698.5	-35.08	-31.1	Pass	

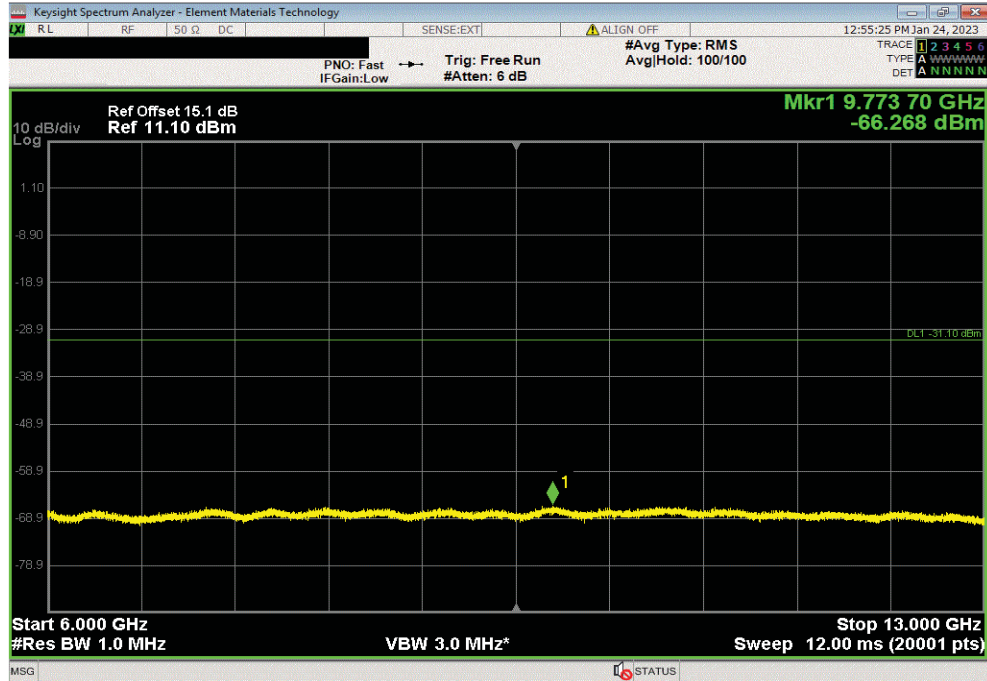


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

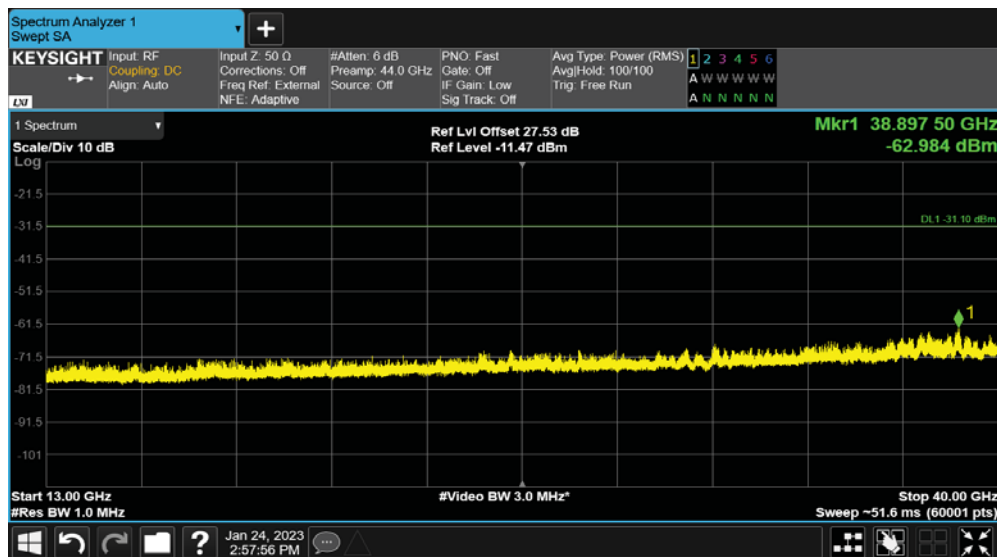


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	9773.7	-66.27	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 20 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38896	-62.984	-31.1	Pass	

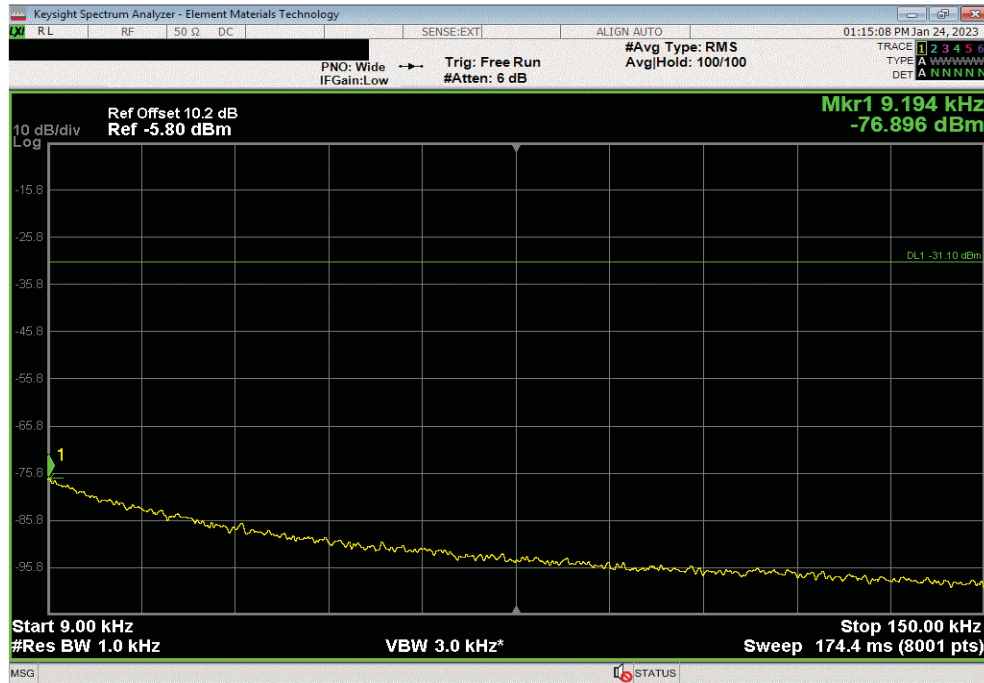


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

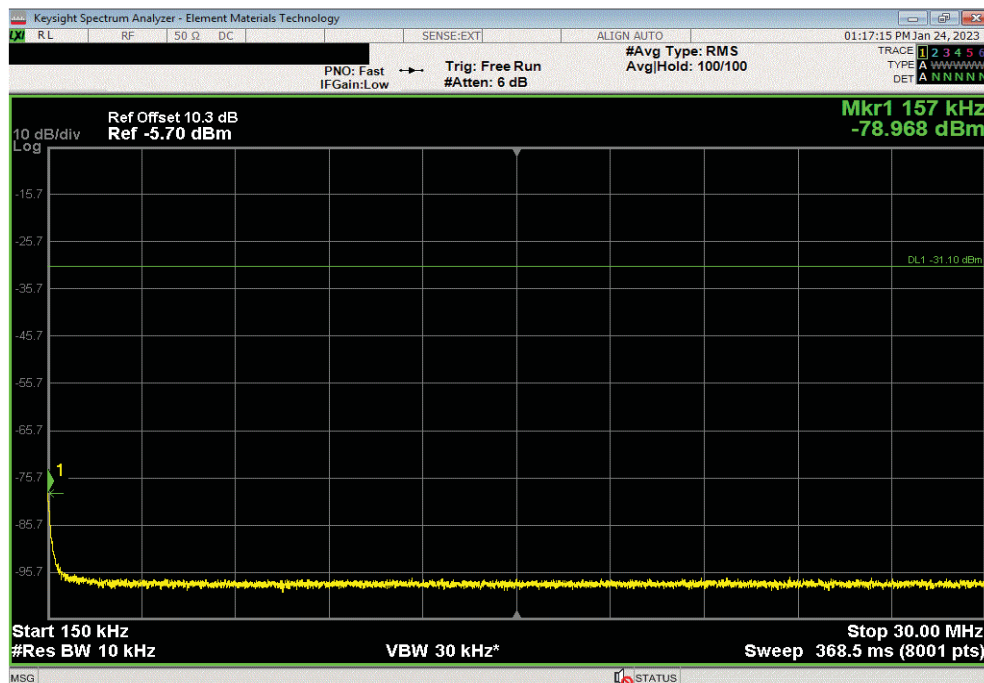


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-76.9	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.16	-78.97	-31.1	Pass	

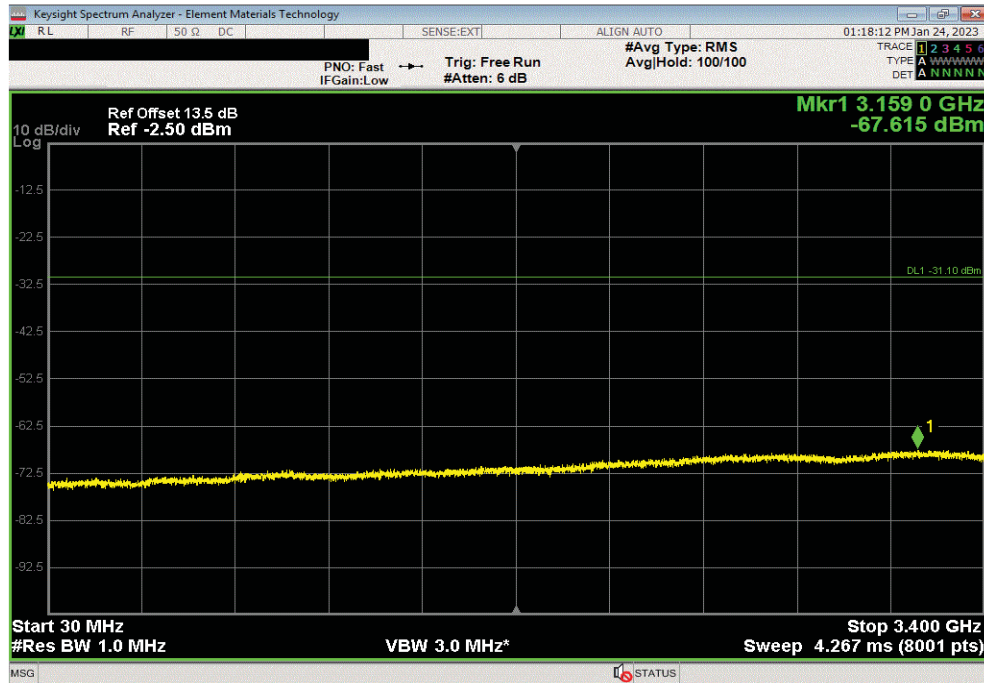


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

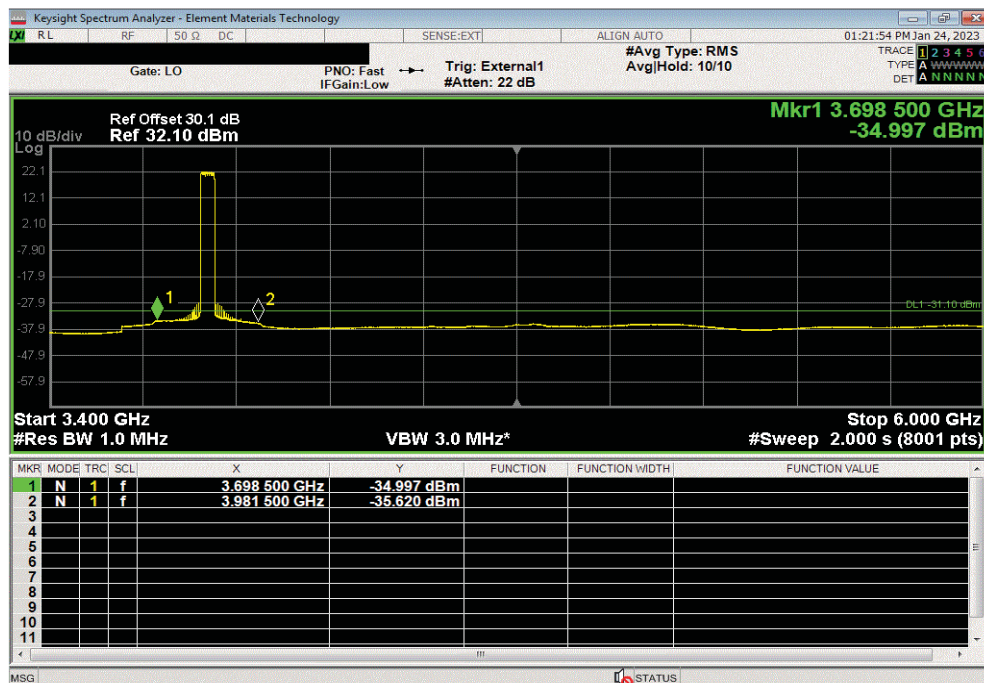


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.4 GHz	3159.05	-67.61	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 6 GHz	3698.5	-35	-31.1	Pass	

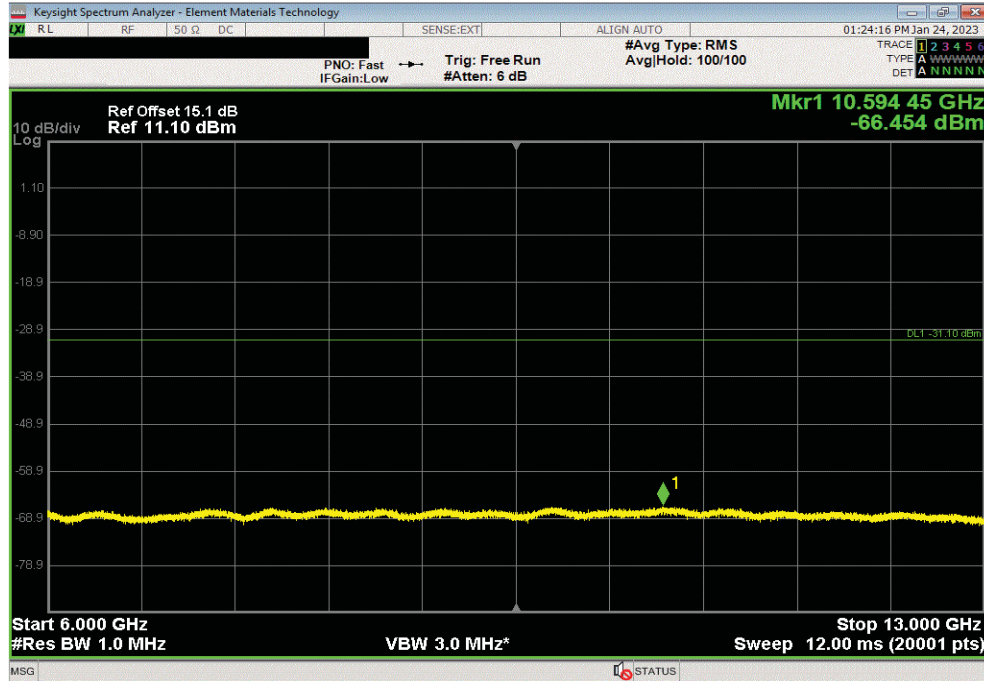


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

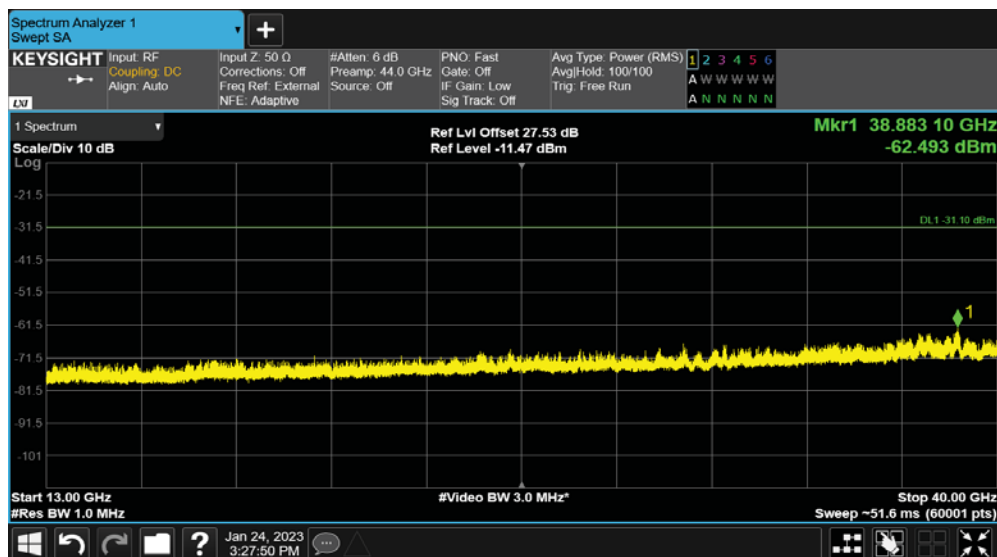


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	10594.45	-66.45	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 40 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38883	-62.493	-31.1	Pass	

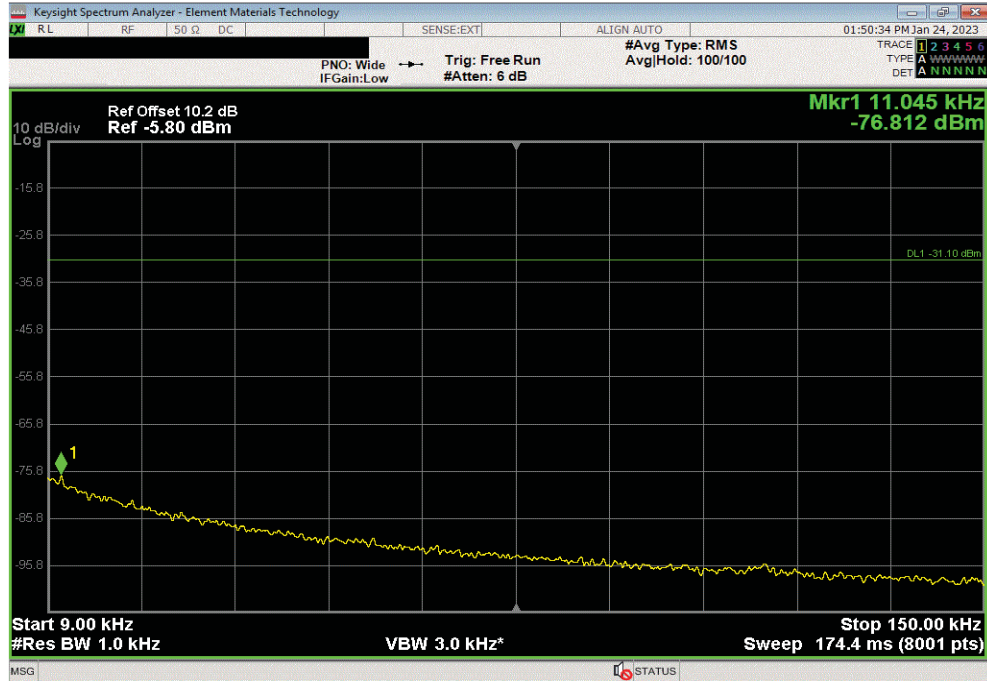


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

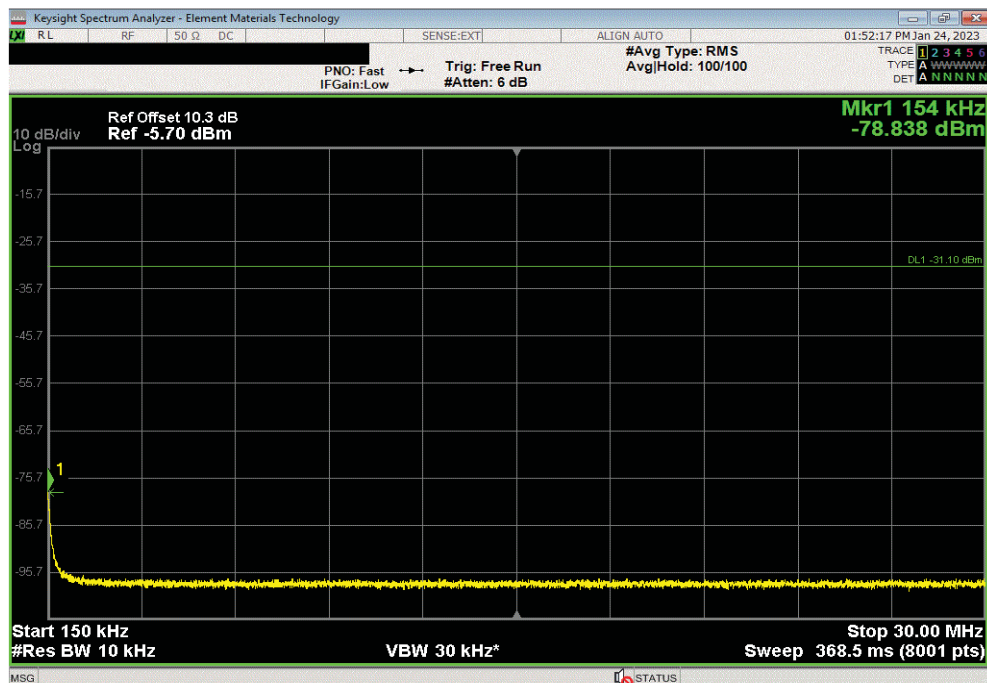


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-76.81	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.15	-78.84	-31.1	Pass	

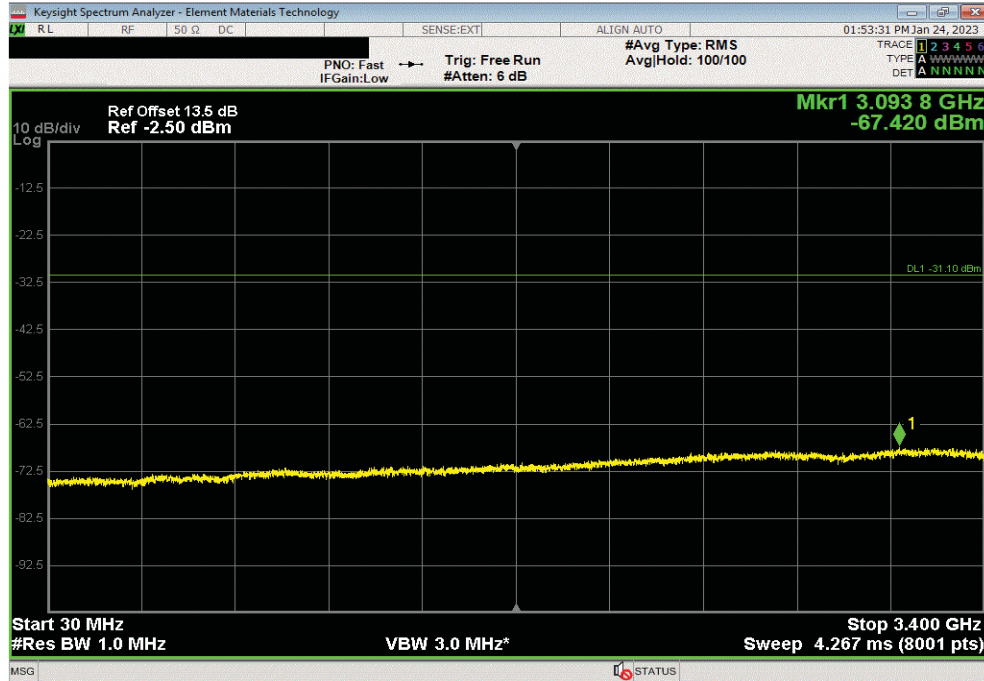


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

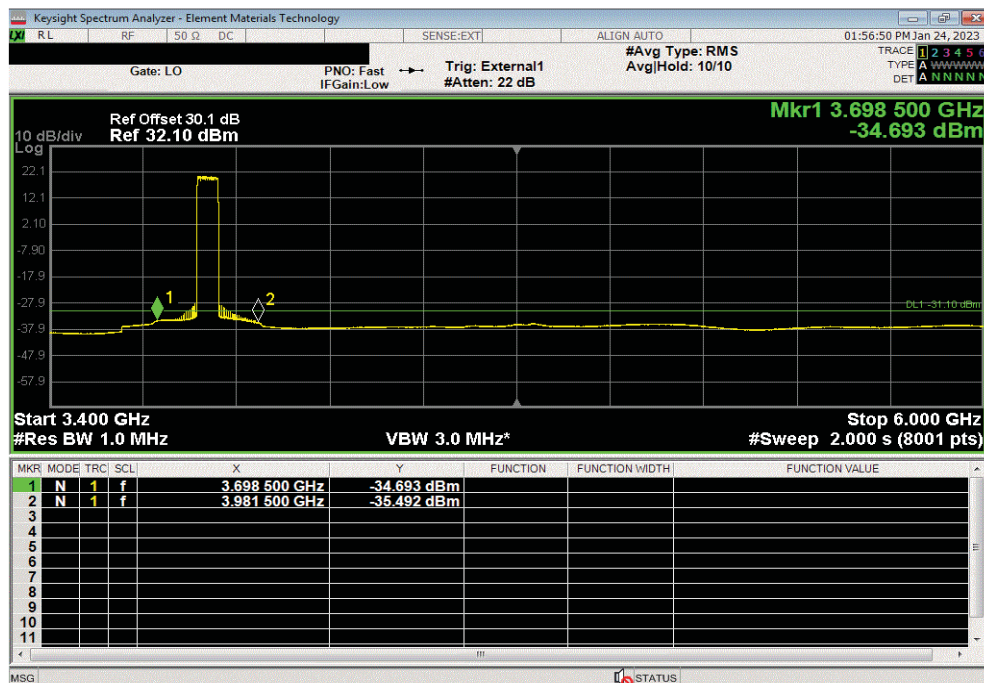


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.4 GHz	3093.75	-67.42	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 6 GHz	3698.5	-34.69	-31.1	Pass	

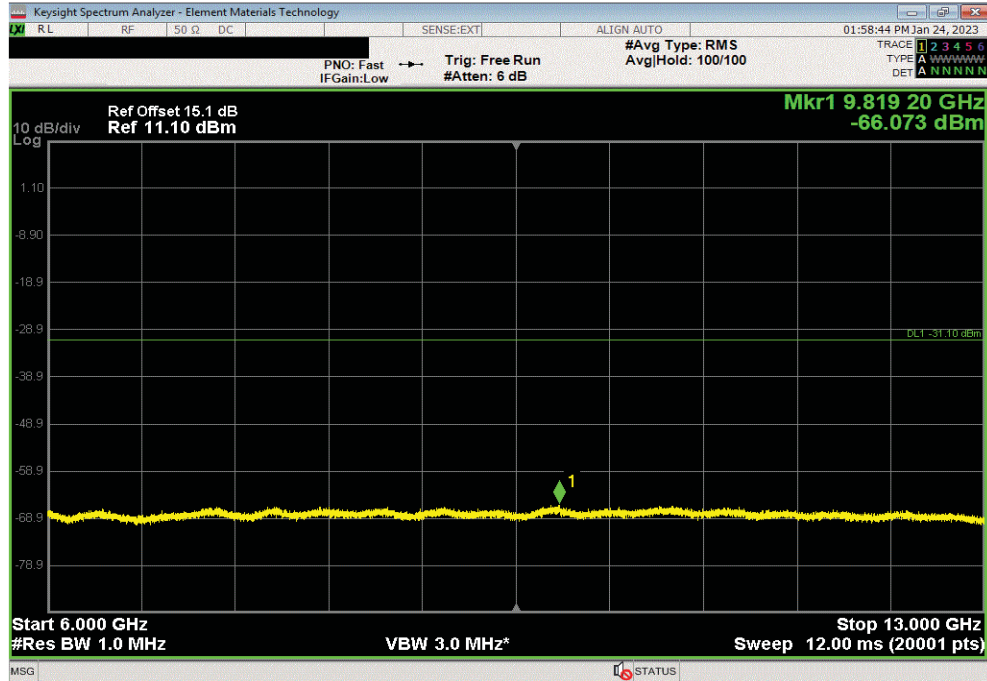


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

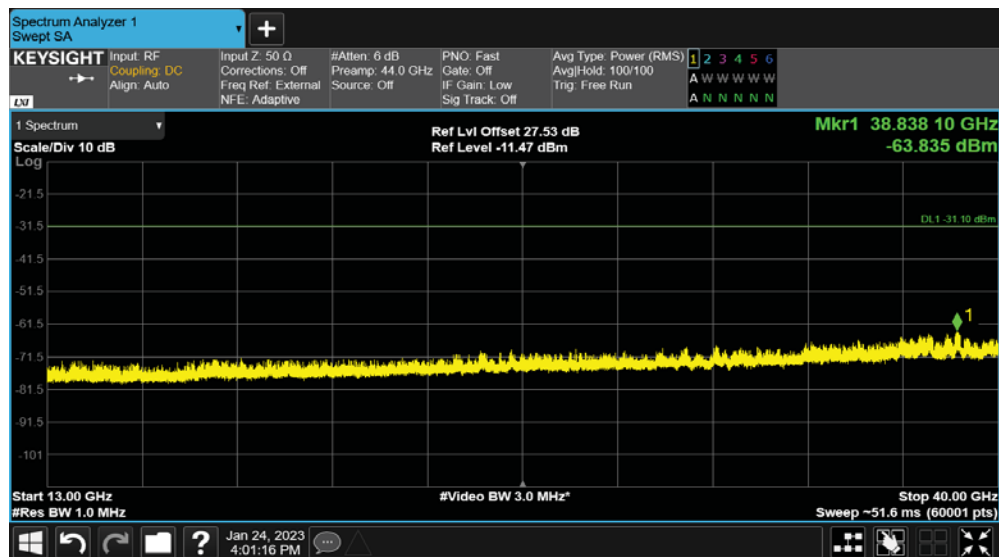


TbTx 2022.06.03.0 XbTx 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	9819.2	-66.07	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 60 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38838	-63.835	-31.1	Pass	

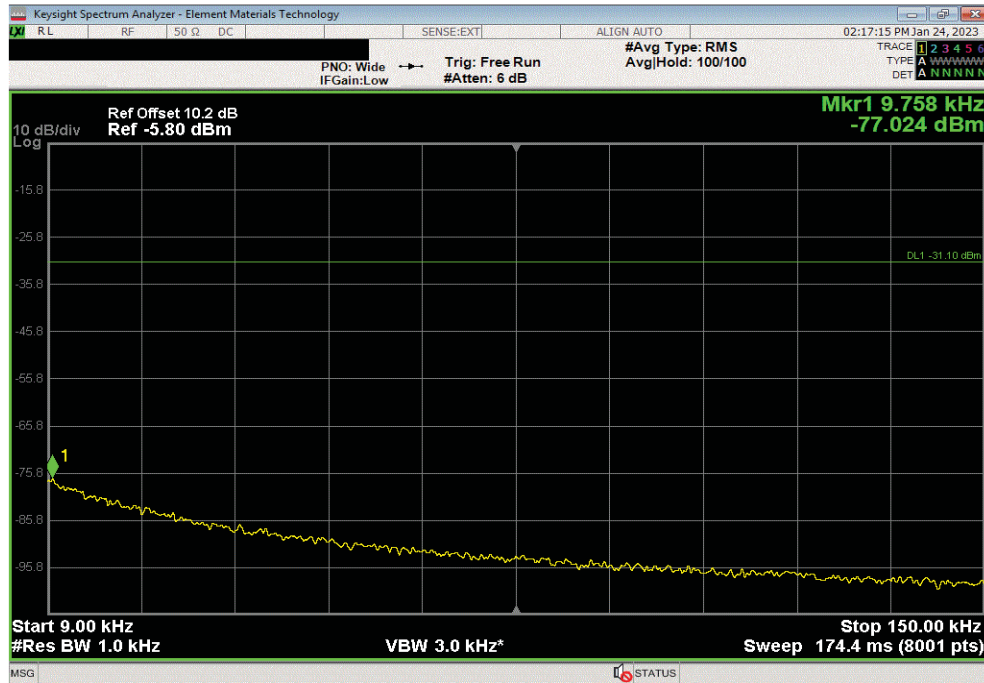


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

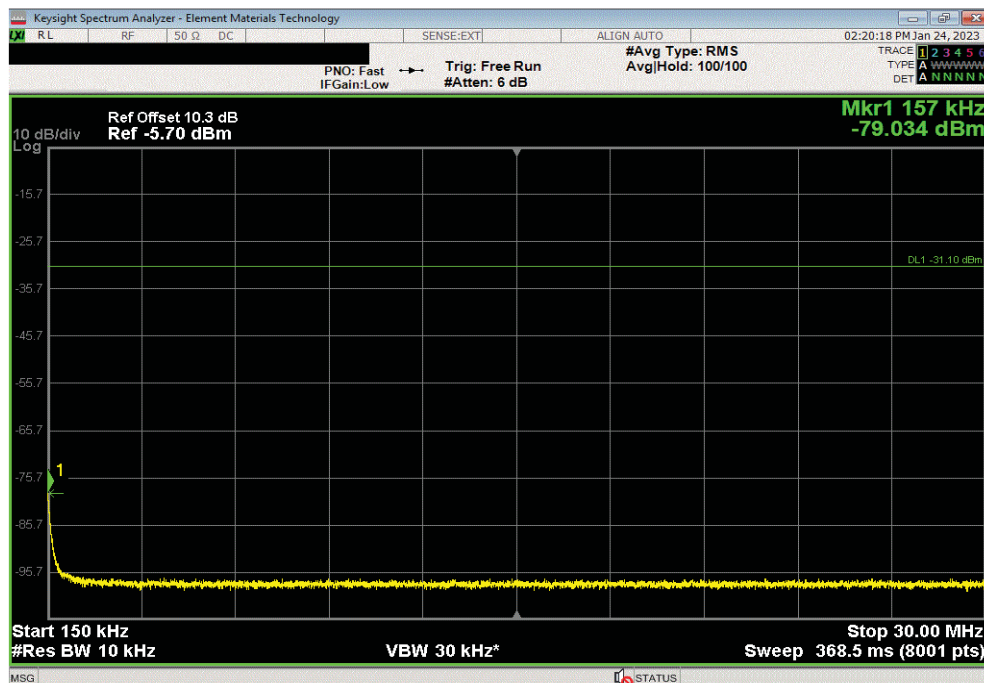


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-77.02	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.16	-79.03	-31.1	Pass	

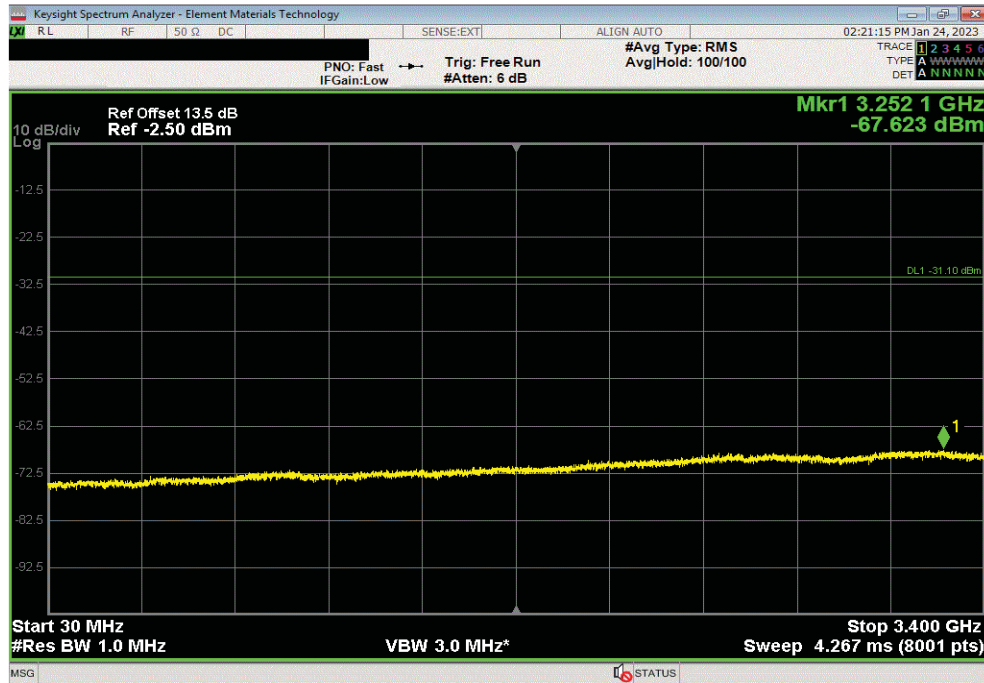


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

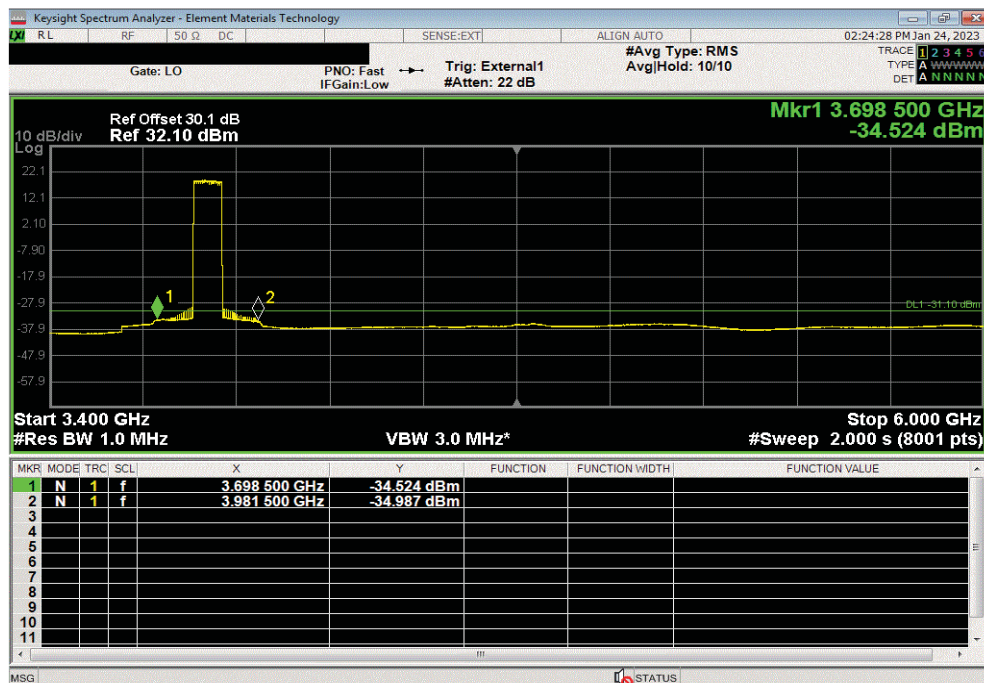


TbTtx 2022.06.03.0 XMI 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.4 GHz	3252.14	-67.62	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 6 GHz	3698.5	-34.52	-31.1	Pass	

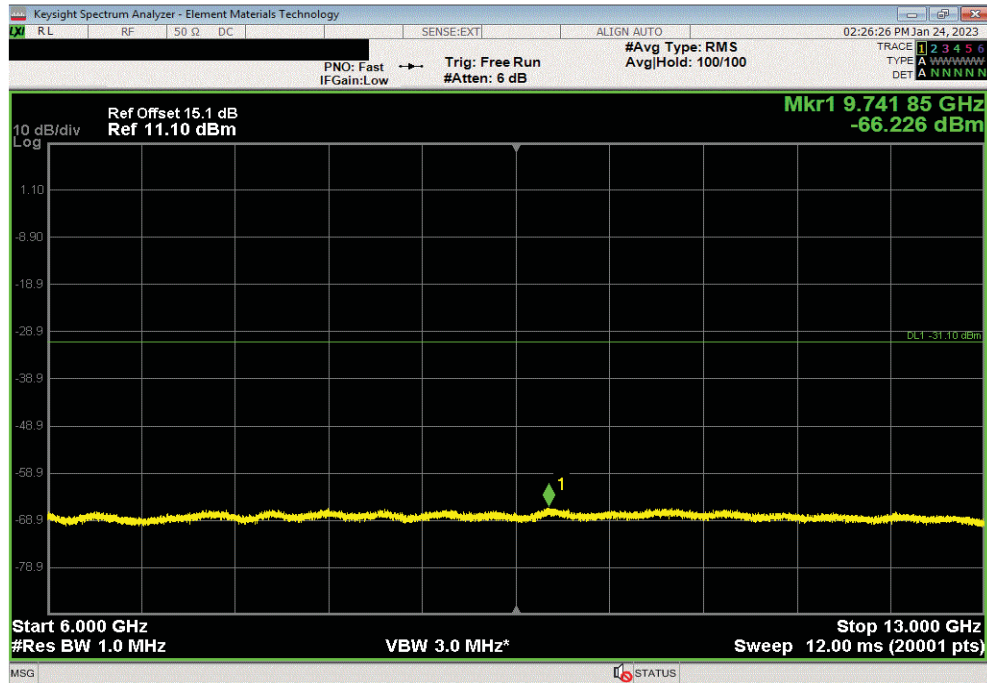


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

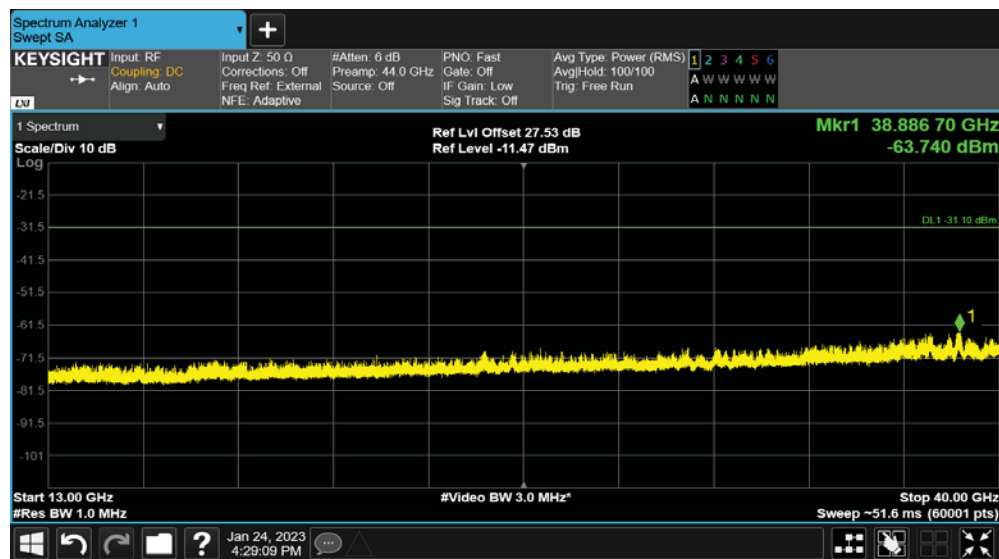


TbTx 2022.06.03.0 XbTx 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	9741.85	-66.23	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 80 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38887	-63.74	-31.1	Pass	

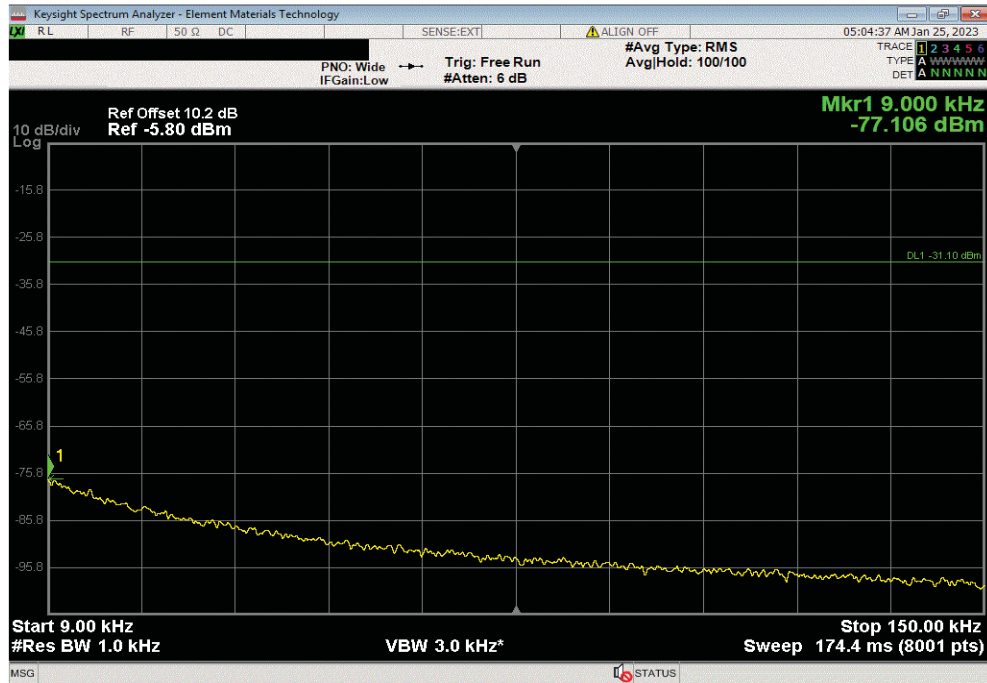


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

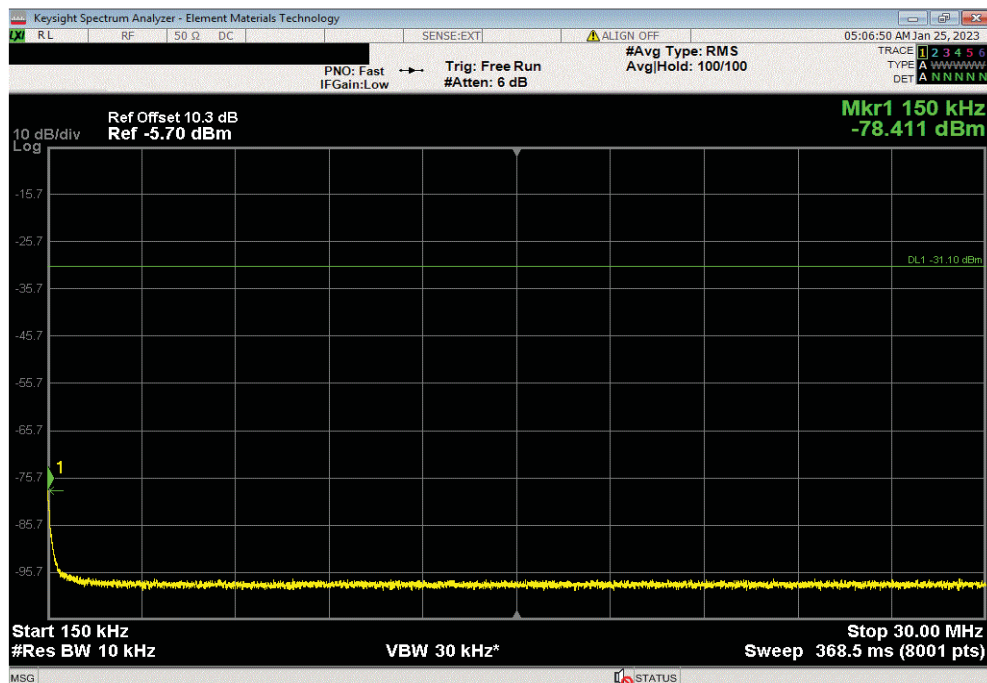


TbTx 2022.06.03.0 XMt 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz	0.01	-77.11	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
150 kHz - 30 MHz	0.15	-78.41	-31.1	Pass	

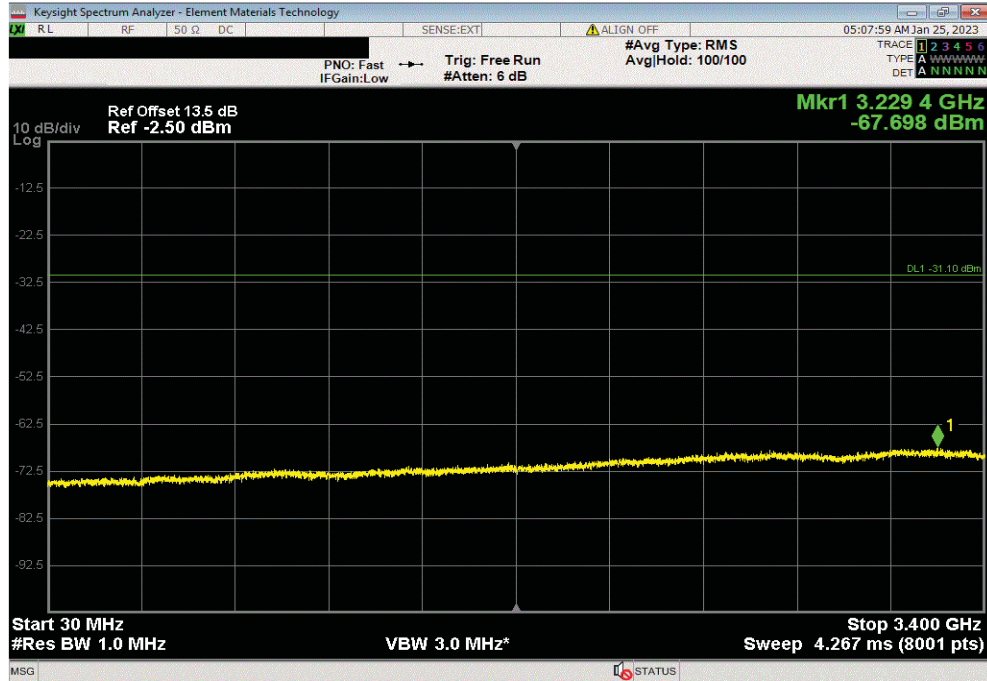


SPURIOUS CONDUCTED EMISSIONS SINGLE 3.7G

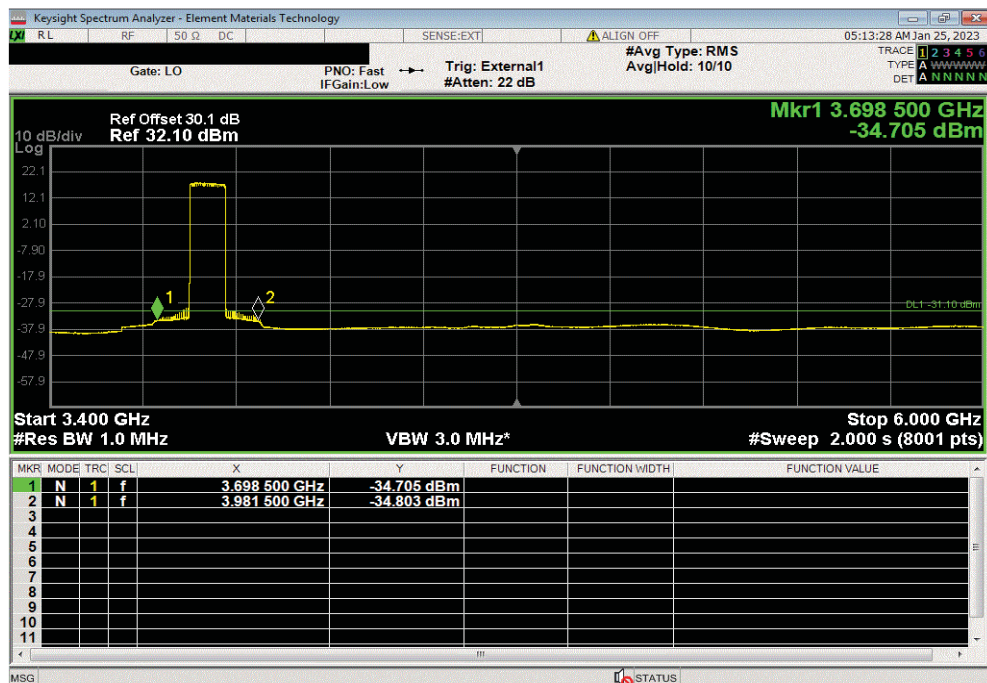


TbTx 2022.06.03.0 XbTx 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
30 MHz - 3.4 GHz	3229.39	-67.7	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
3.4 GHz - 6 GHz	3698.5	-34.71	-31.1	Pass	

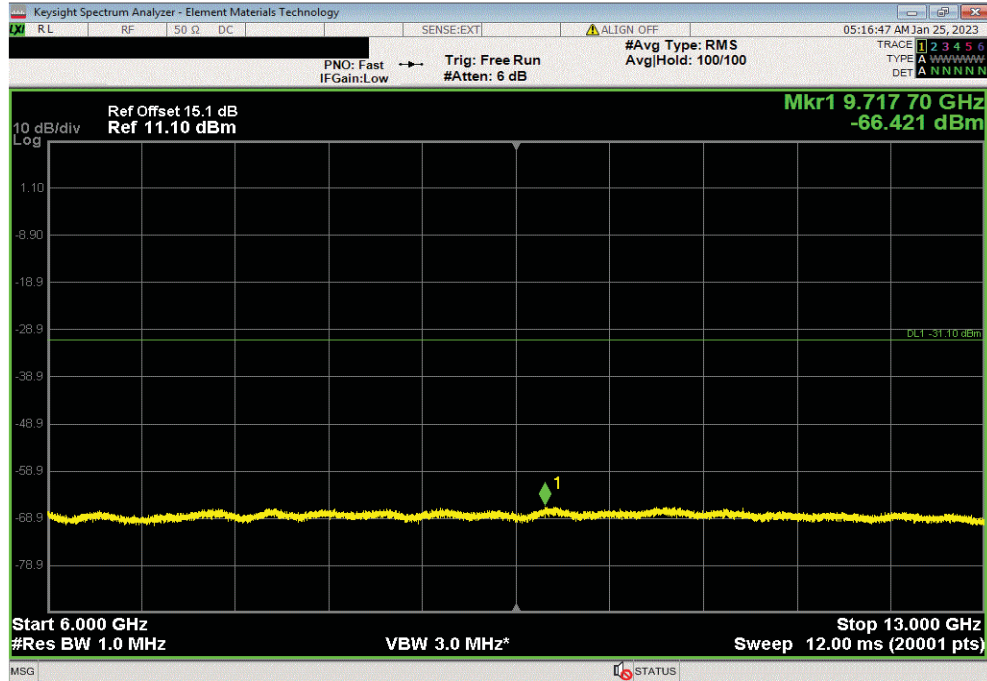


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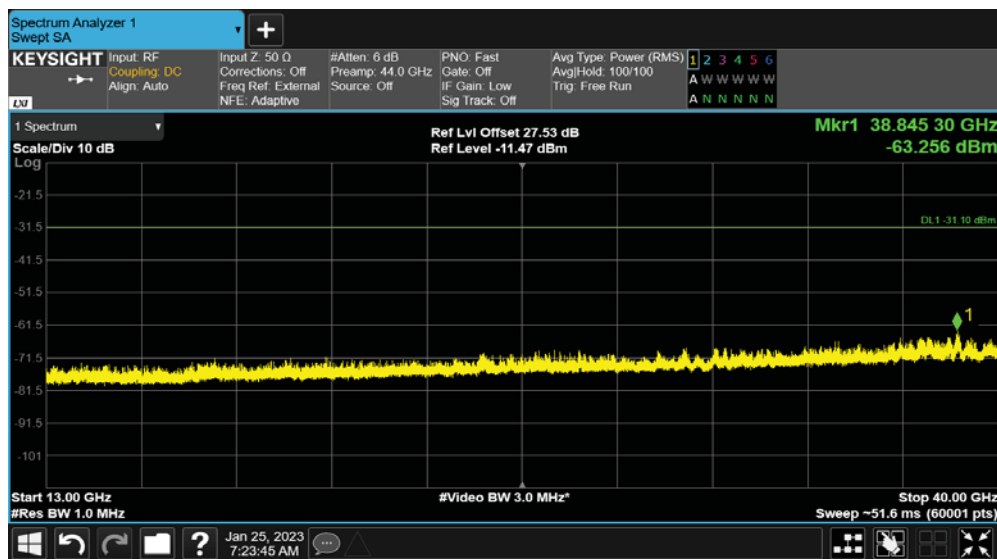


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
6 GHz - 13 GHz	9717.7	-66.42	-31.1	Pass	



Port 22, Band n77, 3700 - 3980 MHz, 100 MHz Bandwidth, 256QAM Modulation, Mid Channel, 3840 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result	
13 GHz - 40 GHz	38845	-63.256	-31.1	Pass	



SPURIOUS RADIATED EMISSIONS

TEST DESCRIPTION

At an approved test site, the transmitter was placed on a remotely controlled turntable, and the measurement antenna was placed 3 meters from the transmitter. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis. The turntable azimuth was varied to maximize the level of spurious emissions. The height of the measurement antenna was also varied from 1 to 4 meters. A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. The amplitude and frequency of the highest emissions was noted.

The transmitter was then replaced with a 1/2 wave dipole that was successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator was connected to the dipole (horn antenna for frequencies above 1 GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the antenna and its gain, the power (dBm) was determined for each radiated spurious emission.

Test Config	Band	Channel Bandwidth	Transmit Freq	Channel Position	Carrier PSD Per Band	Carrier Pwr per		
						Port	Band	Radio
1	3.45G Band	NR40	3470.01 MHz	Bot Ch	5 W/MHz	3.125W	200W	360W
	3.7G Band	NR20	3710.01 MHz	Bot Ch	8 W/MHz	2.5W	160W	
2	3.45G Band	NR40	3500.01 MHz	Mid Ch	5 W/MHz	3.125W	200W	360W
	3.7G Band	NR20	3840.00 MHz	Mid Ch	8 W/MHz	2.5W	160W	
3	3.45G Band	NR40	3529.98 MHz	Top Ch	5 W/MHz	3.125W	200W	360W
	3.7G Band	NR20	3969.99 MHz	Top Ch	8 W/MHz	2.5W	160W	
4	3.45G Band	NR20	3540.00 MHz	Top Ch	8 W/MHz	2.5 W	160W	480W
	3.7G Band	NR100	3750.00 MHz	Bot Ch	3.2 W/MHz	5 W	320W	
5	3.45G Band	NR20	3460.02 MHz	Bot Ch	8 W/MHz	2.5 W	160W	480W
	3.7G Band	NR100	3930.00 MHz	Top Ch	3.2 W/MHz	5 W	320W	

Table 4 Radiated Spurious Emissions Test Configurations

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2022-09-02	2024-09-02
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2022-06-10	2023-06-10
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2022-04-19	2023-04-19
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2022-07-22	2023-07-22
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2022-10-21	2024-10-21
Cable	Northwest EMC	1-8.2 GHz	TXC	2022-04-19	2023-04-19
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2022-04-19	2023-04-19
Attenuator	Weinschel Corp	4H-20	AWB	2022-02-23	2023-02-23
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Cable	Northwest EMC	8-18GHz	TXD	2022-04-12	2023-04-12
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2022-09-09	2023-09-09
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2022-09-09	2023-09-09
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2022-09-09	2023-09-09
Cable	Northwest EMC	18-40GHz	TXE	2022-09-09	2023-09-09
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2022-09-14	2023-09-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	2022-01-19	2023-01-19

SPURIOUS RADIATED EMISSIONS

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.1 dB	-5.1 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 40000 MHz

POWER INVESTIGATED

54 VDC

CONFIGURATIONS INVESTIGATED

NOKI0052-8
NOKI0052-12

MODES INVESTIGATED

Test Configuration 2 with the adapter panel routed into a bank of 50 ohm terminations
Test Configuration 3 with the adapter panel routed into a bank of 50 ohm terminations
Test Configuration 4 with the adapter panel routed into a bank of 50 ohm terminations
Test Configuration 5 with the adapter panel routed into a bank of 50 ohm terminations
Test Configuration 1 with the adapter panel routed into a bank of 50 ohm terminations

SPURIOUS RADIATED EMISSIONS

EUT:	AQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-8

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	8	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

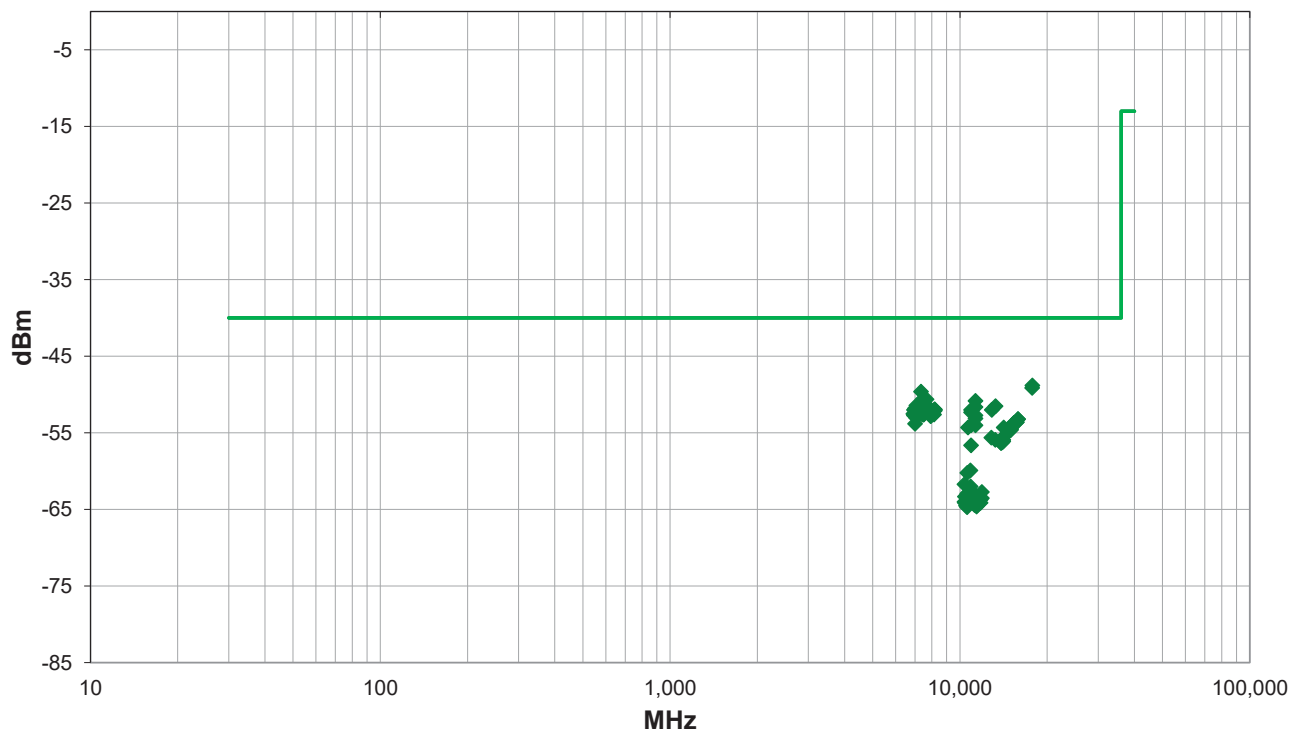
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Please reference the data comments for testing configuration. Physical setup is with the adapter panel installed.

DEVIATIONS FROM TEST STANDARD

None



Run #: 8

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #8

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17788.000	1.2	34.9	Vert	AV	13.1E-9	-48.8	-40.0	-8.8	Test Configuration 5, reference table 4
17755.000	1.6	324.0	Vert	AV	12.2E-9	-49.1	-40.0	-9.1	Test Configuration 2, reference table 4
7339.000	1.2	316.9	Vert	AV	10.9E-9	-49.6	-40.0	-9.6	Test Configuration 2, reference table 4
7484.000	2.6	276.0	Vert	AV	8.9E-9	-50.5	-40.0	-10.5	Test Configuration 3, reference table 4
7680.000	1.5	273.0	Horz	AV	8.7E-9	-50.6	-40.0	-10.6	Test Configuration 2, reference table 4
11328.000	1.0	307.0	Vert	AV	8.3E-9	-50.8	-40.0	-10.8	Test Configuration 1, reference table 4
7080.000	1.5	330.0	Vert	AV	7.2E-9	-51.4	-40.0	-11.4	Test Configuration 4, reference table 4
13281.000	1.3	308.0	Vert	AV	7.0E-9	-51.5	-40.0	-11.5	Test Configuration 4, reference table 4
11328.000	1.2	306.0	Vert	AV	6.9E-9	-51.6	-40.0	-11.6	Test Configuration 2, reference table 4
7680.000	1.5	301.0	Vert	AV	6.7E-9	-51.7	-40.0	-11.7	Test Configuration 2, reference table 4
7000.020	1.5	277.0	Horz	AV	6.6E-9	-51.8	-40.0	-11.8	Test Configuration 2, reference table 4
7897.000	1.2	133.0	Vert	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 3, reference table 4
7059.960	1.5	298.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 3, reference table 4
7900.000	1.2	310.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 4, reference table 4
7895.000	1.2	158.0	Vert	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 4, reference table 4
7080.000	1.5	285.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 4, reference table 4
8190.000	1.2	7.0	Horz	AV	6.4E-9	-51.9	-40.0	-11.9	Test Configuration 5, reference table 4
6940.020	1.5	344.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0	Test Configuration 1, reference table 4
8190.000	2.2	194.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0	Test Configuration 3, reference table 4
8190.000	1.2	187.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0	Test Configuration 4, reference table 4
12890.000	1.3	295.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0	Test Configuration 4, reference table 4
10938.000	3.6	75.9	Vert	AV	6.3E-9	-52.0	-40.0	-12.0	Test Configuration 5, reference table 4
8188.000	1.2	266.0	Horz	AV	6.1E-9	-52.1	-40.0	-12.1	Test Configuration 4, reference table 4
10938.000	3.0	74.0	Vert	AV	5.8E-9	-52.3	-40.0	-12.3	Test Configuration 4, reference table 4
7420.020	1.5	346.9	Vert	AV	5.7E-9	-52.4	-40.0	-12.4	Test Configuration 1, reference table 4
7860.000	2.0	38.0	Horz	AV	5.7E-9	-52.4	-40.0	-12.4	Test Configuration 5, reference table 4
7860.000	1.5	116.0	Vert	AV	5.7E-9	-52.4	-40.0	-12.4	Test Configuration 5, reference table 4
6920.040	1.5	284.0	Horz	AV	5.6E-9	-52.5	-40.0	-12.5	Test Configuration 5, reference table 4
6920.040	2.3	57.9	Vert	AV	5.6E-9	-52.5	-40.0	-12.5	Test Configuration 5, reference table 4
7420.020	3.9	309.9	Horz	AV	5.5E-9	-52.6	-40.0	-12.6	Test Configuration 1, reference table 4
7500.000	1.5	319.0	Horz	AV	5.5E-9	-52.6	-40.0	-12.6	Test Configuration 4, reference table 4
7500.000	1.5	346.9	Vert	AV	5.5E-9	-52.6	-40.0	-12.6	Test Configuration 4, reference table 4
8139.000	1.2	360.0	Vert	AV	5.5E-9	-52.6	-40.0	-12.6	Test Configuration 5, reference table 4
6940.020	1.5	69.9	Horz	AV	5.3E-9	-52.7	-40.0	-12.7	Test Configuration 1, reference table 4
11328.000	1.2	306.0	Vert	AV	5.3E-9	-52.7	-40.0	-12.7	Test Configuration 5, reference table 4
7939.980	1.5	261.0	Horz	AV	5.2E-9	-52.8	-40.0	-12.8	Test Configuration 3, reference table 4
7939.980	1.5	234.0	Vert	AV	5.2E-9	-52.8	-40.0	-12.8	Test Configuration 3, reference table 4
7059.960	1.5	270.0	Vert	AV	5.0E-9	-53.0	-40.0	-13.0	Test Configuration 3, reference table 4
11328.000	1.0	313.0	Vert	AV	4.9E-9	-53.1	-40.0	-13.1	Test Configuration 3, reference table 4
15879.960	1.5	249.0	Horz	AV	4.8E-9	-53.2	-40.0	-13.2	Test Configuration 3, reference table 4

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15879.960	1.5	81.9	Vert	AV	4.8E-9	-53.2	-40.0	-13.2	Test Configuration 3, reference table 4
15720.000	1.5	236.0	Horz	AV	4.3E-9	-53.6	-40.0	-13.6	Test Configuration 5, reference table 4
15720.000	1.5	79.0	Vert	AV	4.3E-9	-53.6	-40.0	-13.6	Test Configuration 5, reference table 4
15360.000	1.5	3.0	Horz	AV	4.2E-9	-53.7	-40.0	-13.7	Test Configuration 2, reference table 4
15360.000	1.5	94.9	Vert	AV	4.2E-9	-53.7	-40.0	-13.7	Test Configuration 2, reference table 4
7000.020	1.5	64.9	Vert	AV	4.1E-9	-53.8	-40.0	-13.8	Test Configuration 2, reference table 4
10938.000	3.9	40.9	Horz	AV	4.0E-9	-54.0	-40.0	-14.0	Test Configuration 5, reference table 4
11328.000	3.3	9.0	Horz	AV	4.0E-9	-54.0	-40.0	-14.0	Test Configuration 5, reference table 4
10663.000	1.2	351.0	Vert	AV	3.7E-9	-54.3	-40.0	-14.3	Test Configuration 1, reference table 4
14160.000	3.0	297.9	Vert	AV	3.7E-9	-54.3	-40.0	-14.3	Test Configuration 4, reference table 4
14840.040	1.5	141.0	Horz	AV	3.6E-9	-54.4	-40.0	-14.4	Test Configuration 1, reference table 4
14840.040	1.5	178.9	Vert	AV	3.6E-9	-54.4	-40.0	-14.4	Test Configuration 1, reference table 4
15000.000	1.5	331.0	Vert	AV	3.5E-9	-54.5	-40.0	-14.5	Test Configuration 4, reference table 4
15000.000	1.5	232.9	Horz	AV	3.4E-9	-54.6	-40.0	-14.6	Test Configuration 4, reference table 4
14160.000	1.5	340.9	Horz	AV	2.8E-9	-55.5	-40.0	-15.5	Test Configuration 4, reference table 4
12840.000	1.2	7.0	Horz	AV	2.7E-9	-55.6	-40.0	-15.6	Test Configuration 4, reference table 4
14119.920	3.3	268.9	Vert	AV	2.6E-9	-55.9	-40.0	-15.9	Test Configuration 3, reference table 4
13265.000	1.2	238.9	Horz	AV	2.6E-9	-55.9	-40.0	-15.9	Test Configuration 4, reference table 4
14119.920	1.5	79.0	Horz	AV	2.4E-9	-56.1	-40.0	-16.1	Test Configuration 3, reference table 4
13840.080	1.5	170.0	Horz	AV	2.4E-9	-56.1	-40.0	-16.1	Test Configuration 5, reference table 4
13840.080	1.5	192.0	Vert	AV	2.4E-9	-56.1	-40.0	-16.1	Test Configuration 5, reference table 4
14000.400	1.5	250.9	Horz	AV	2.4E-9	-56.2	-40.0	-16.2	Test Configuration 2, reference table 4
14000.400	3.6	189.0	Vert	AV	2.4E-9	-56.2	-40.0	-16.2	Test Configuration 2, reference table 4
13880.040	1.5	108.0	Horz	AV	2.3E-9	-56.3	-40.0	-16.3	Test Configuration 1, reference table 4
13880.040	1.5	285.0	Vert	AV	2.3E-9	-56.3	-40.0	-16.3	Test Configuration 1, reference table 4
10938.000	1.2	328.9	Horz	AV	2.2E-9	-56.6	-40.0	-16.6	Test Configuration 4, reference table 4
10879.000	1.7	358.9	Vert	AV	1.0E-9	-59.9	-40.0	-19.9	Test Configuration 1, reference table 4
10620.000	3.7	111.9	Vert	AV	9.5E-10	-60.2	-40.0	-20.2	Test Configuration 4, reference table 4
10380.060	3.6	105.0	Vert	AV	6.7E-10	-61.7	-40.0	-21.7	Test Configuration 5, reference table 4
10900.000	1.2	280.9	Horz	AV	6.3E-10	-62.0	-40.0	-22.0	Test Configuration 1, reference table 4
11909.970	1.5	333.9	Horz	AV	5.3E-10	-62.7	-40.0	-22.7	Test Configuration 3, reference table 4
10620.000	4.0	2.0	Horz	AV	5.1E-10	-62.9	-40.0	-22.9	Test Configuration 4, reference table 4
10938.000	1.2	357.0	Vert	AV	5.0E-10	-63.0	-40.0	-23.0	Test Configuration 3, reference table 4
11250.000	1.6	315.0	Vert	AV	5.0E-10	-63.0	-40.0	-23.0	Test Configuration 4, reference table 4
11130.030	1.5	357.9	Vert	AV	4.9E-10	-63.1	-40.0	-23.1	Test Configuration 1, reference table 4
10410.030	1.5	357.0	Horz	AV	4.6E-10	-63.3	-40.0	-23.3	Test Configuration 1, reference table 4
11130.030	1.5	358.9	Horz	AV	4.5E-10	-63.4	-40.0	-23.4	Test Configuration 1, reference table 4
11909.970	1.5	357.9	Vert	AV	4.4E-10	-63.5	-40.0	-23.5	Test Configuration 3, reference table 4
11520.000	1.5	357.9	Vert	AV	4.2E-10	-63.7	-40.0	-23.7	Test Configuration 2, reference table 4
11790.000	1.5	320.0	Vert	AV	4.2E-10	-63.7	-40.0	-23.7	Test Configuration 5, reference table 4
10938.000	1.2	339.9	Horz	AV	4.1E-10	-63.8	-40.0	-23.8	Test Configuration 2, reference table 4

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10500.030	2.9	358.9	Horz	AV	4.0E-10	-63.9	-40.0	-23.9	Test Configuration 2, reference table 4
10938.000	1.2	30.0	Horz	AV	4.0E-10	-63.9	-40.0	-23.9	Test Configuration 3, reference table 4
10660.000	1.2	306.0	Horz	AV	4.0E-10	-64.0	-40.0	-24.0	Test Configuration 1, reference table 4
10380.060	1.9	177.9	Horz	AV	4.0E-10	-64.0	-40.0	-24.0	Test Configuration 5, reference table 4
10410.030	1.5	355.0	Vert	AV	3.9E-10	-64.1	-40.0	-24.1	Test Configuration 1, reference table 4
11790.000	1.5	46.9	Horz	AV	3.9E-10	-64.1	-40.0	-24.1	Test Configuration 5, reference table 4
11520.000	1.5	357.0	Horz	AV	3.6E-10	-64.4	-40.0	-24.4	Test Configuration 2, reference table 4
11250.000	1.5	225.0	Horz	AV	3.6E-10	-64.4	-40.0	-24.4	Test Configuration 4, reference table 4
10500.030	1.5	357.0	Vert	AV	3.5E-10	-64.5	-40.0	-24.5	Test Configuration 2, reference table 4
10589.940	1.5	342.0	Vert	AV	3.5E-10	-64.5	-40.0	-24.5	Test Configuration 3, reference table 4
11415.000	1.2	357.0	Horz	AV	3.4E-10	-64.6	-40.0	-24.6	Test Configuration 3, reference table 4
10589.940	1.5	346.9	Horz	AV	3.4E-10	-64.7	-40.0	-24.7	Test Configuration 3, reference table 4

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	AQQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-8

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	35	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

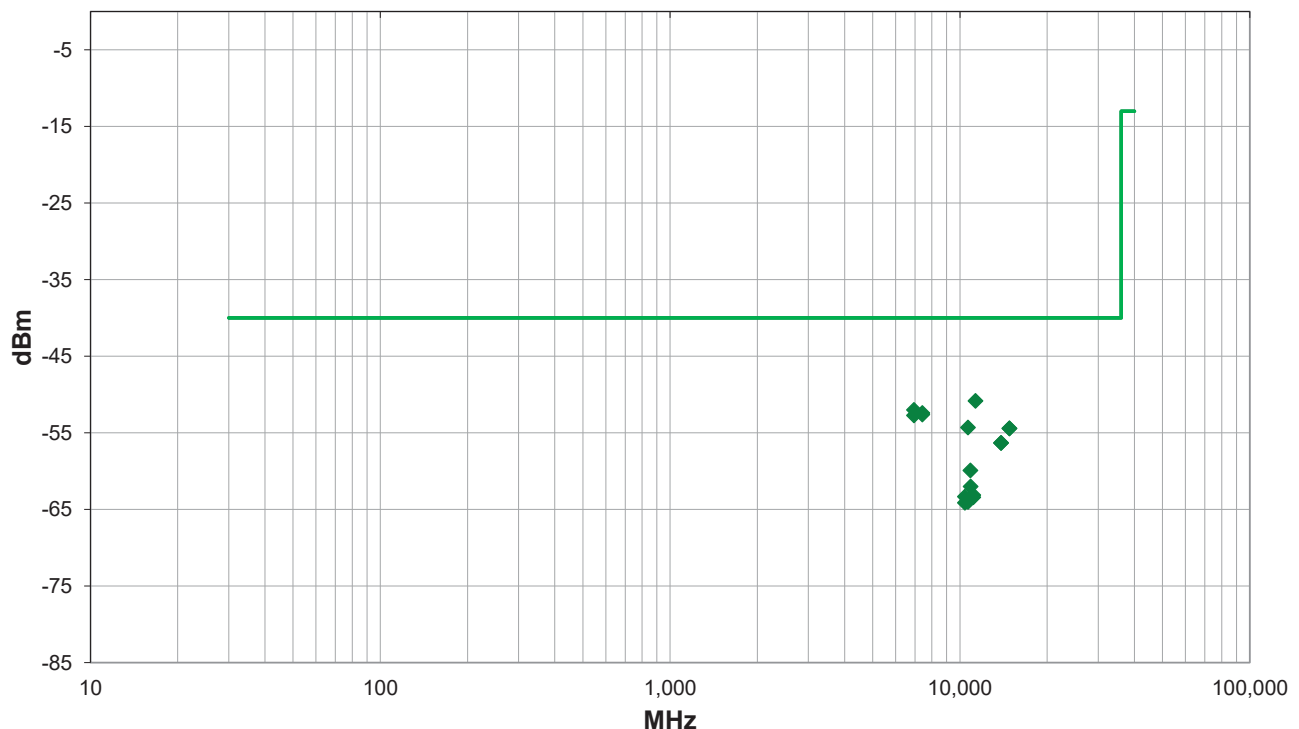
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Test Configuration 1 with the adapter panel routed into a bank of 50 ohm terminations

DEVIATIONS FROM TEST STANDARD

None



Run #: 35

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #35

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
11328.000	1.0	307.0	Vert	AV	8.3E-9	-50.8	-40.0	-10.8
6940.020	1.5	344.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0
7420.020	1.5	346.9	Vert	AV	5.7E-9	-52.4	-40.0	-12.4
7420.020	3.9	309.9	Horz	AV	5.5E-9	-52.6	-40.0	-12.6
6940.020	1.5	69.9	Horz	AV	5.3E-9	-52.7	-40.0	-12.7
10663.000	1.2	351.0	Vert	AV	3.7E-9	-54.3	-40.0	-14.3
14840.040	1.5	141.0	Horz	AV	3.6E-9	-54.4	-40.0	-14.4
14840.040	1.5	178.9	Vert	AV	3.6E-9	-54.4	-40.0	-14.4
13880.040	1.5	108.0	Horz	AV	2.3E-9	-56.3	-40.0	-16.3
13880.040	1.5	285.0	Vert	AV	2.3E-9	-56.3	-40.0	-16.3
10879.000	1.7	358.9	Vert	AV	1.0E-9	-59.9	-40.0	-19.9
10900.000	1.2	280.9	Horz	AV	626.8E-12	-62.0	-40.0	-22.0
11130.030	1.5	357.9	Vert	AV	486.5E-12	-63.1	-40.0	-23.1
10410.030	1.5	357.0	Horz	AV	464.6E-12	-63.3	-40.0	-23.3
11130.030	1.5	358.9	Horz	AV	454.1E-12	-63.4	-40.0	-23.4
10660.000	1.2	306.0	Horz	AV	395.5E-12	-64.0	-40.0	-24.0
10410.030	1.5	355.0	Vert	AV	386.5E-12	-64.1	-40.0	-24.1

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	AQQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-8

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	13	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

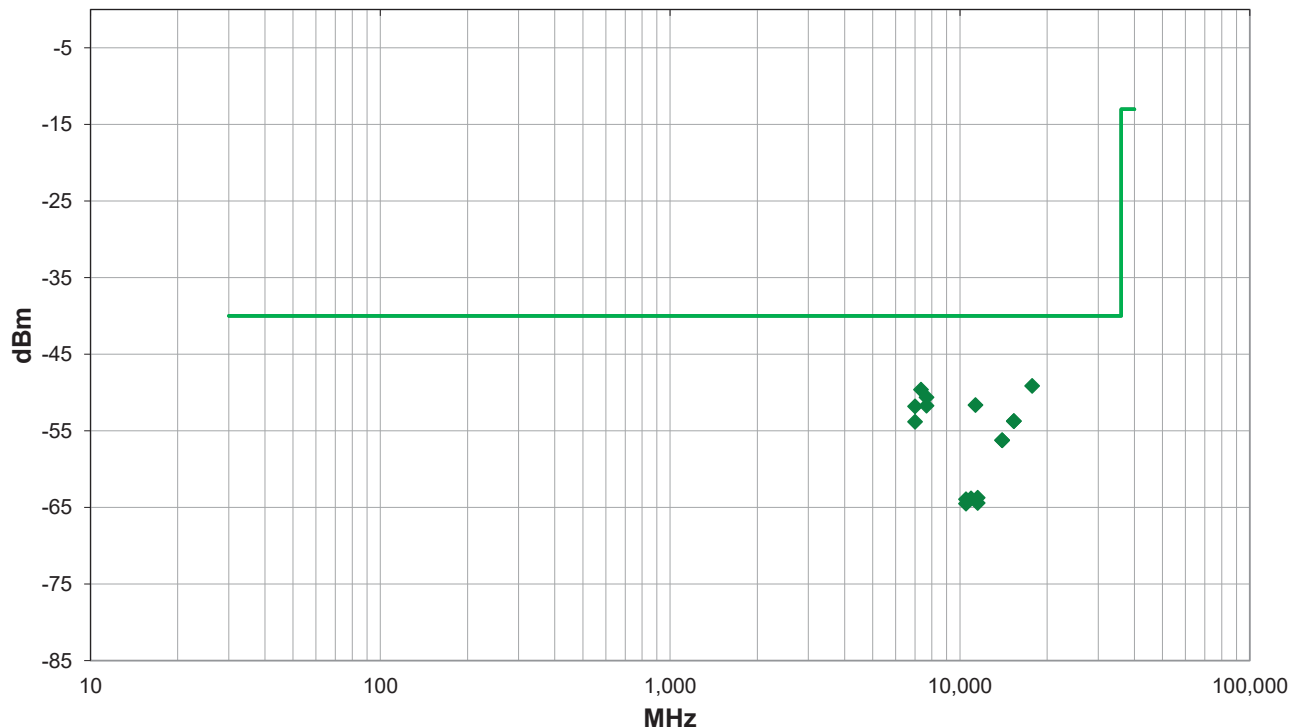
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Test Configuration 2 with the adapter panel routed into a bank of 50 ohm terminations

DEVIATIONS FROM TEST STANDARD

None



Run #: 13

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #13

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
17755.000	1.6	324.0	Vert	AV	12.2E-9	-49.1	-40.0	-9.1
7339.000	1.2	316.9	Vert	AV	10.9E-9	-49.6	-40.0	-9.6
7680.000	1.5	273.0	Horz	AV	8.7E-9	-50.6	-40.0	-10.6
11328.000	1.2	306.0	Vert	AV	6.9E-9	-51.6	-40.0	-11.6
7680.000	1.5	301.0	Vert	AV	6.7E-9	-51.7	-40.0	-11.7
7000.020	1.5	277.0	Horz	AV	6.6E-9	-51.8	-40.0	-11.8
15360.000	1.5	3.0	Horz	AV	4.2E-9	-53.7	-40.0	-13.7
15360.000	1.5	94.9	Vert	AV	4.2E-9	-53.7	-40.0	-13.7
7000.020	1.5	64.9	Vert	AV	4.1E-9	-53.8	-40.0	-13.8
14000.400	1.5	250.9	Horz	AV	2.4E-9	-56.2	-40.0	-16.2
14000.400	3.6	189.0	Vert	AV	2.4E-9	-56.2	-40.0	-16.2
11520.000	1.5	357.9	Vert	AV	423.8E-12	-63.7	-40.0	-23.7
10938.000	1.2	339.9	Horz	AV	414.1E-12	-63.8	-40.0	-23.8
10500.030	2.9	358.9	Horz	AV	404.7E-12	-63.9	-40.0	-23.9
11520.000	1.5	357.0	Horz	AV	360.7E-12	-64.4	-40.0	-24.4
10500.030	1.5	357.0	Vert	AV	352.5E-12	-64.5	-40.0	-24.5

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	AQQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-8

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	19	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

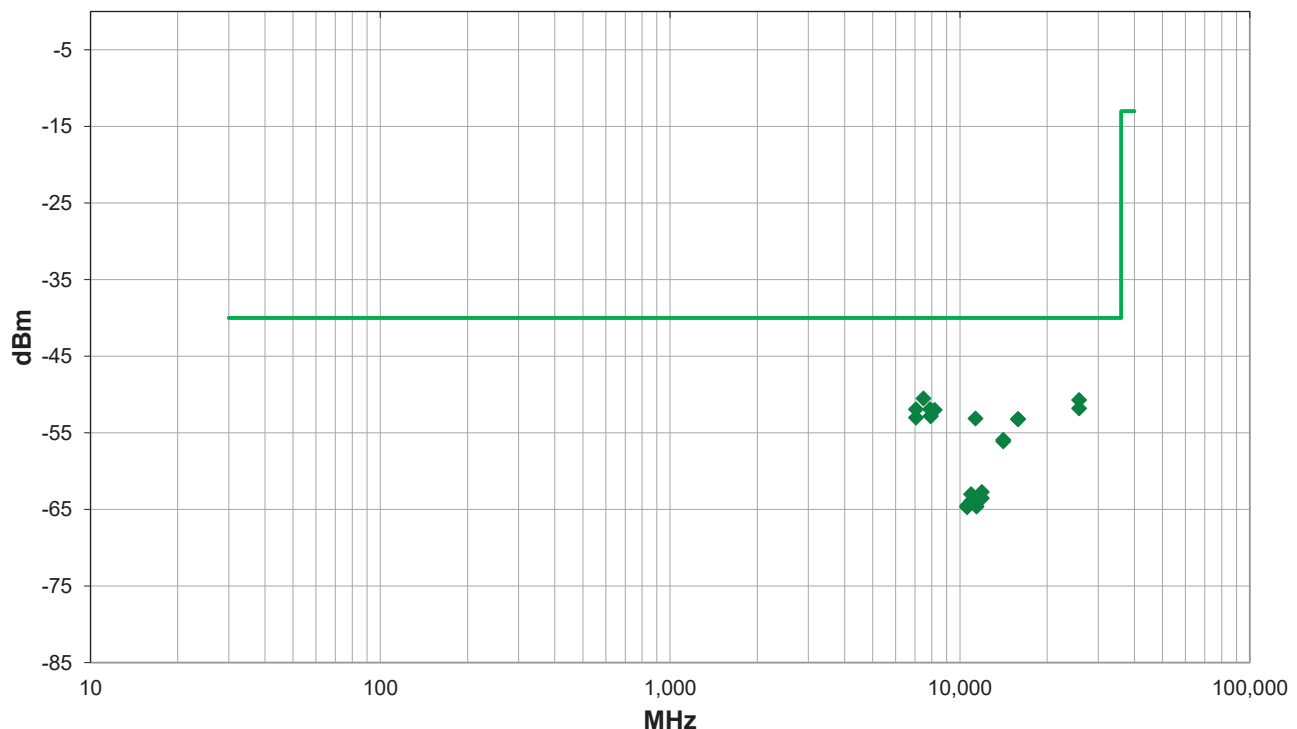
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Test Configuration 3 with the adapter panel routed into a bank of 50 ohm terminations

DEVIATIONS FROM TEST STANDARD

None



Run #: 19

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #19

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7484.000	2.6	276.0	Vert	AV	8.9E-9	-50.5	-40.0	-10.5
25781.000	1.3	91.0	Vert	AV	8.5E-9	-50.7	-40.0	-10.7
25781.000	1.3	146.1	Horz	AV	6.6E-9	-51.8	-40.0	-11.8
7897.000	1.2	133.0	Vert	AV	6.4E-9	-51.9	-40.0	-11.9
7059.960	1.5	298.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9
8190.000	2.2	194.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0
7939.980	1.5	261.0	Horz	AV	5.2E-9	-52.8	-40.0	-12.8
7939.980	1.5	234.0	Vert	AV	5.2E-9	-52.8	-40.0	-12.8
7059.960	1.5	270.0	Vert	AV	5.0E-9	-53.0	-40.0	-13.0
11328.000	1.0	313.0	Vert	AV	4.9E-9	-53.1	-40.0	-13.1
15879.960	1.5	249.0	Horz	AV	4.8E-9	-53.2	-40.0	-13.2
15879.960	1.5	81.9	Vert	AV	4.8E-9	-53.2	-40.0	-13.2
14119.920	3.3	268.9	Vert	AV	2.6E-9	-55.9	-40.0	-15.9
14119.920	1.5	79.0	Horz	AV	2.4E-9	-56.1	-40.0	-16.1
11909.970	1.5	333.9	Horz	AV	533.5E-12	-62.7	-40.0	-22.7
10938.000	1.2	357.0	Vert	AV	497.9E-12	-63.0	-40.0	-23.0
11909.970	1.5	357.9	Vert	AV	443.7E-12	-63.5	-40.0	-23.5
10938.000	1.2	30.0	Horz	AV	404.7E-12	-63.9	-40.0	-23.9
10589.940	1.5	342.0	Vert	AV	352.5E-12	-64.5	-40.0	-24.5
11415.000	1.2	357.0	Horz	AV	344.4E-12	-64.6	-40.0	-24.6
10589.940	1.5	346.9	Horz	AV	336.6E-12	-64.7	-40.0	-24.7

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	AQQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-8

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	24	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

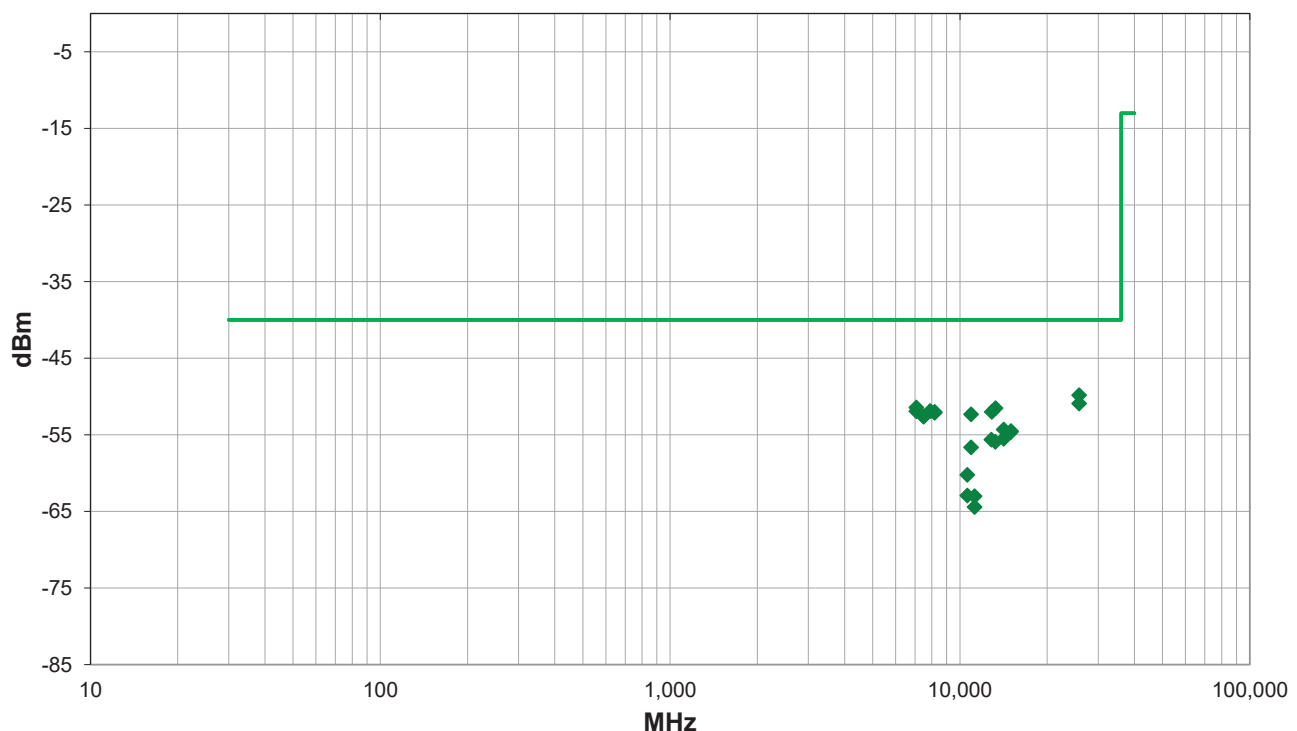
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Test Configuration 4 with the adapter panel routed into a bank of 50 ohm terminations

DEVIATIONS FROM TEST STANDARD

None



Run #: 24

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #24

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
25781.000	1.2	86.0	Vert	AV	10.4E-9	-49.8	-40.0	-9.8
25782.000	1.3	48.0	Horz	AV	8.1E-9	-50.9	-40.0	-10.9
7080.000	1.5	330.0	Vert	AV	7.2E-9	-51.4	-40.0	-11.4
13281.000	1.3	308.0	Vert	AV	7.0E-9	-51.5	-40.0	-11.5
7900.000	1.2	310.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9
7895.000	1.2	158.0	Vert	AV	6.4E-9	-51.9	-40.0	-11.9
7080.000	1.5	285.9	Horz	AV	6.4E-9	-51.9	-40.0	-11.9
8190.000	1.2	187.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0
12890.000	1.3	295.0	Vert	AV	6.3E-9	-52.0	-40.0	-12.0
8188.000	1.2	266.0	Horz	AV	6.1E-9	-52.1	-40.0	-12.1
10938.000	3.0	74.0	Vert	AV	5.8E-9	-52.3	-40.0	-12.3
7500.000	1.5	319.0	Horz	AV	5.5E-9	-52.6	-40.0	-12.6
7500.000	1.5	346.9	Vert	AV	5.5E-9	-52.6	-40.0	-12.6
14160.000	3.0	297.9	Vert	AV	3.7E-9	-54.3	-40.0	-14.3
15000.000	1.5	331.0	Vert	AV	3.5E-9	-54.5	-40.0	-14.5
15000.000	1.5	232.9	Horz	AV	3.4E-9	-54.6	-40.0	-14.6
14160.000	1.5	340.9	Horz	AV	2.8E-9	-55.5	-40.0	-15.5
12840.000	1.2	7.0	Horz	AV	2.7E-9	-55.6	-40.0	-15.6
13265.000	1.2	238.9	Horz	AV	2.6E-9	-55.9	-40.0	-15.9
10938.000	1.2	328.9	Horz	AV	2.2E-9	-56.6	-40.0	-16.6
10620.000	3.7	111.9	Vert	AV	948.7E-12	-60.2	-40.0	-20.2
10620.000	4.0	2.0	Horz	AV	509.5E-12	-62.9	-40.0	-22.9
11250.000	1.6	315.0	Vert	AV	497.9E-12	-63.0	-40.0	-23.0
11250.000	1.5	225.0	Horz	AV	360.7E-12	-64.4	-40.0	-24.4

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	AQQQA	Work Order:	NOKI0052
Serial Number:	YK224300010	Date:	2022-12-13
Customer:	Nokia of America Corporation	Temperature:	21.4°C
Attendees:	John Rattanavong, Mitchell Hill	Relative Humidity:	58.2%
Customer Project:	None	Bar. Pressure (PMSL):	1006 mb
Tested By:	Brandon Hobbs	Job Site:	TX02
Power:	54 VDC	Configuration:	NOKI0052-12

TEST SPECIFICATIONS

Specification:	Method:
FCC 27.53:2022	ANSI C63.26:2015

TEST PARAMETERS

Run #:	31	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

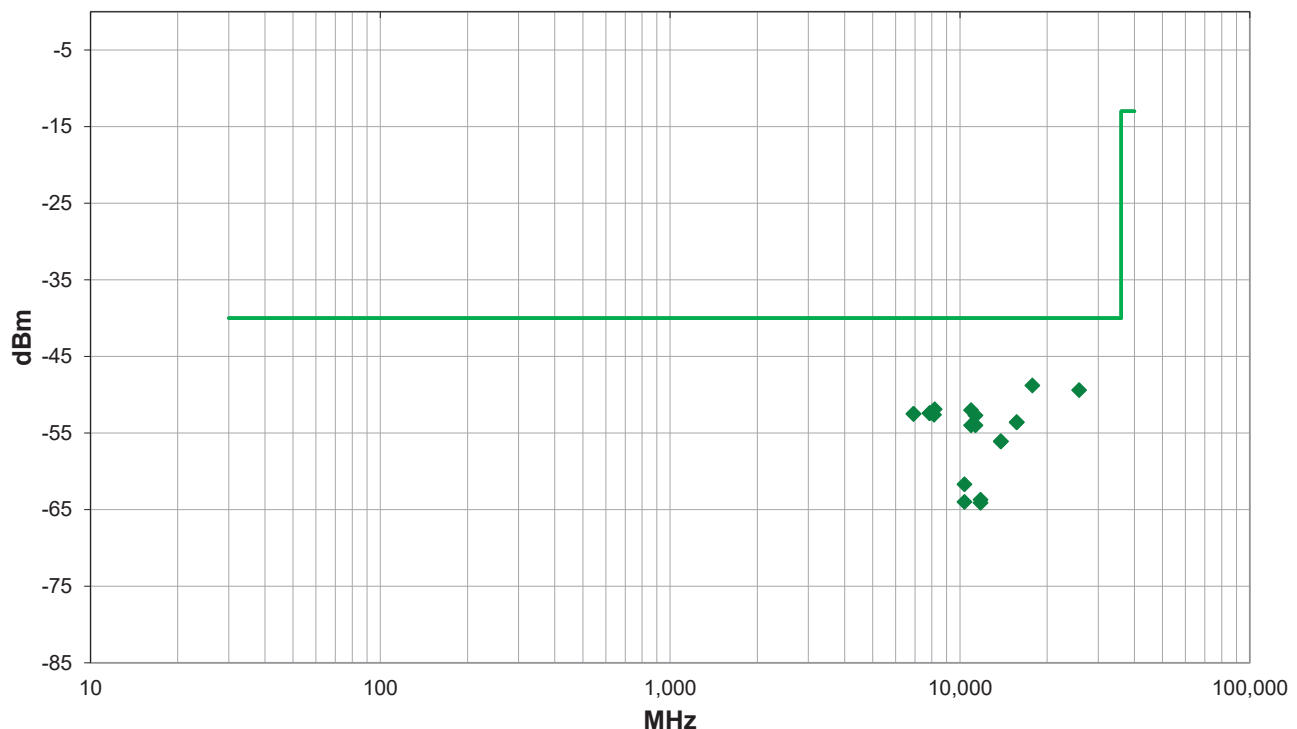
Pole Mounted Radio, The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/.74) = 1.3$ dB upward correction. Worst Case limits were applied across the applicable investigated spectrum.

EUT OPERATING MODES

Test Configuration 5 with the adapter panel routed into a bank of 50 ohm terminations

DEVIATIONS FROM TEST STANDARD

None



Run #: 31

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #31

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
17788.000	1.2	34.9	Vert	AV	13.1E-9	-48.8	-40.0	-8.8
25781.000	1.2	91.6	Vert	AV	11.4E-9	-49.4	-40.0	-9.4
8190.000	1.2	7.0	Horz	AV	6.4E-9	-51.9	-40.0	-11.9
10938.000	3.6	75.9	Vert	AV	6.3E-9	-52.0	-40.0	-12.0
7860.000	2.0	38.0	Horz	AV	5.7E-9	-52.4	-40.0	-12.4
7860.000	1.5	116.0	Vert	AV	5.7E-9	-52.4	-40.0	-12.4
6920.040	1.5	284.0	Horz	AV	5.6E-9	-52.5	-40.0	-12.5
6920.040	2.3	57.9	Vert	AV	5.6E-9	-52.5	-40.0	-12.5
8139.000	1.2	360.0	Vert	AV	5.5E-9	-52.6	-40.0	-12.6
11328.000	1.2	306.0	Vert	AV	5.3E-9	-52.7	-40.0	-12.7
15720.000	1.5	236.0	Horz	AV	4.3E-9	-53.6	-40.0	-13.6
15720.000	1.5	79.0	Vert	AV	4.3E-9	-53.6	-40.0	-13.6
10938.000	3.9	40.9	Horz	AV	4.0E-9	-54.0	-40.0	-14.0
11328.000	3.3	9.0	Horz	AV	4.0E-9	-54.0	-40.0	-14.0
13840.080	1.5	170.0	Horz	AV	2.4E-9	-56.1	-40.0	-16.1
13840.080	1.5	192.0	Vert	AV	2.4E-9	-56.1	-40.0	-16.1
10380.060	3.6	105.0	Vert	AV	671.6E-12	-61.7	-40.0	-21.7
11790.000	1.5	320.0	Vert	AV	423.8E-12	-63.7	-40.0	-23.7
10380.060	1.9	177.9	Horz	AV	395.5E-12	-64.0	-40.0	-24.0
11790.000	1.5	46.9	Horz	AV	386.5E-12	-64.1	-40.0	-24.1

CONCLUSION

Pass



Tested By

End of Test Report