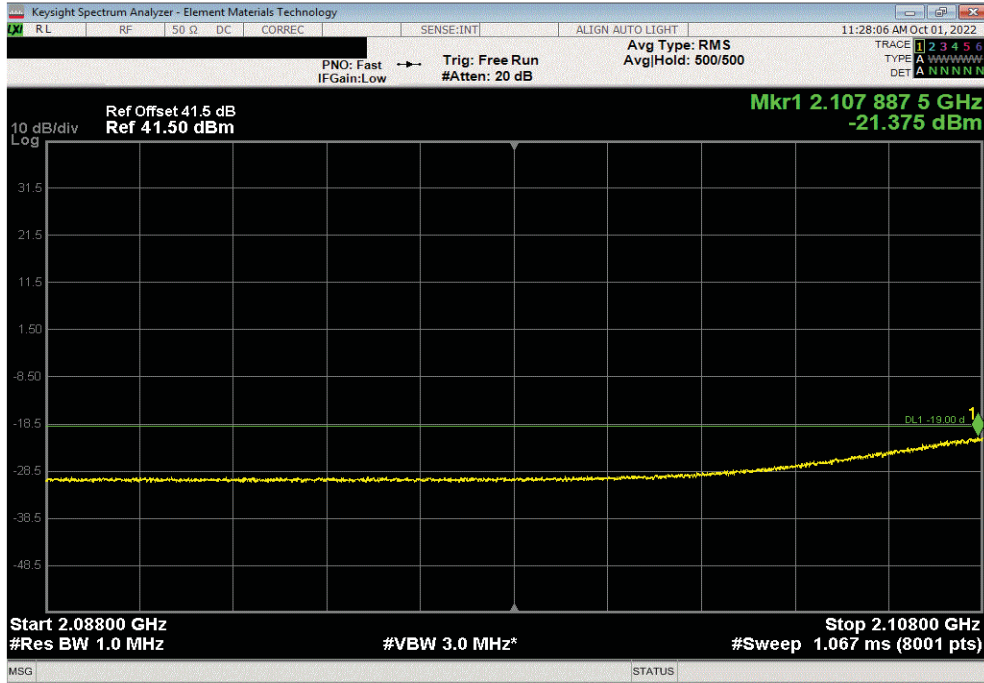


# BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

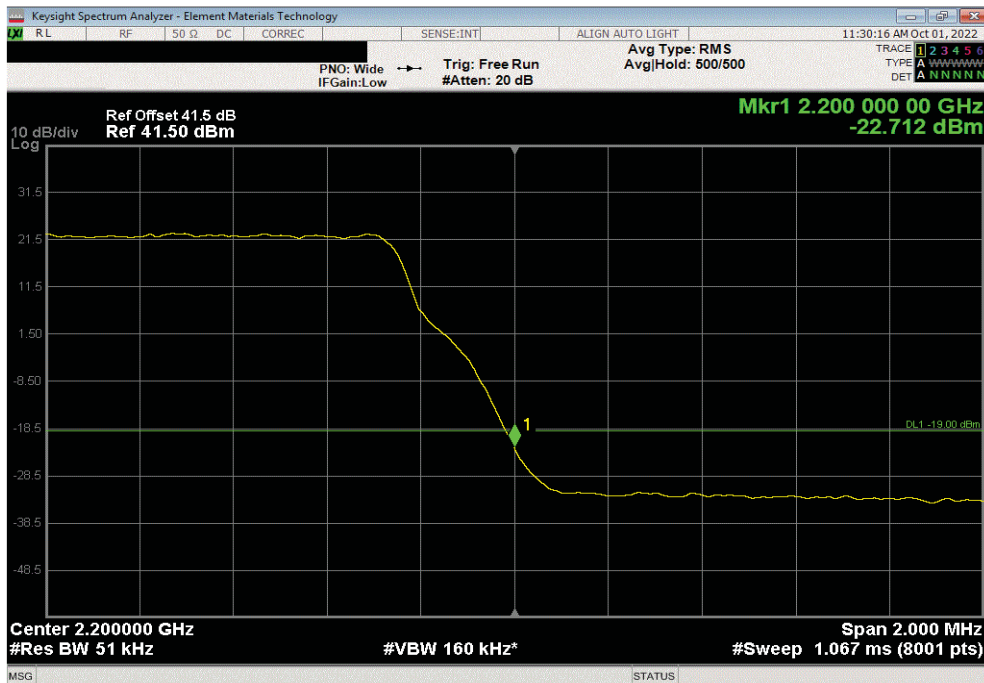


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Low Side, MultiCarrier Test Case 5, AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result		
3	2107.89	-21.38	-19	Pass		



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, High Side, MultiCarrier Test Case 5, AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result		
1	2200	-22.71	-19	Pass		

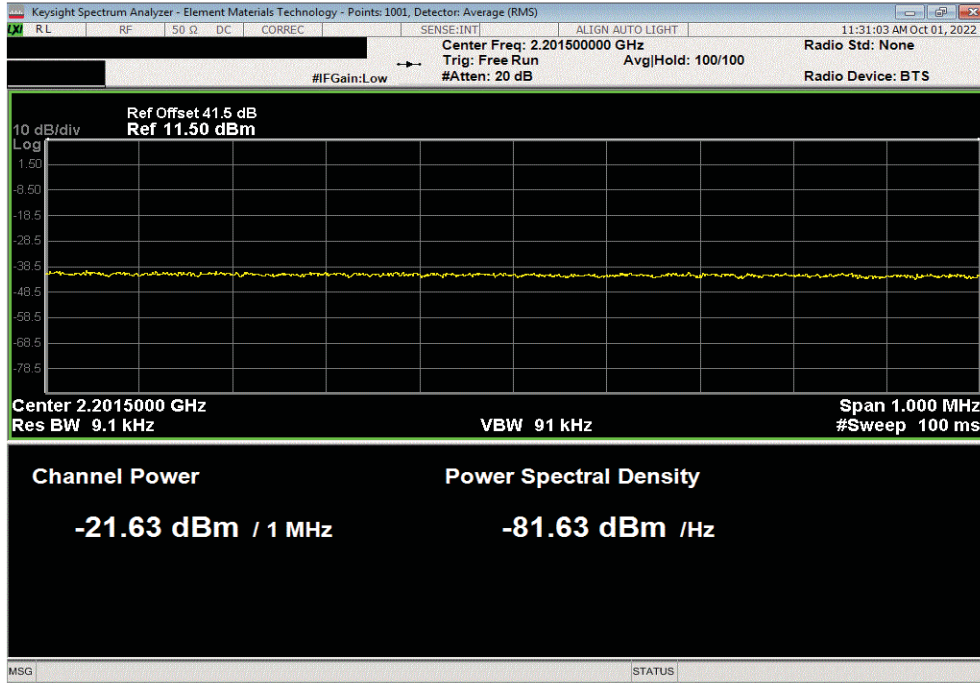


# BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

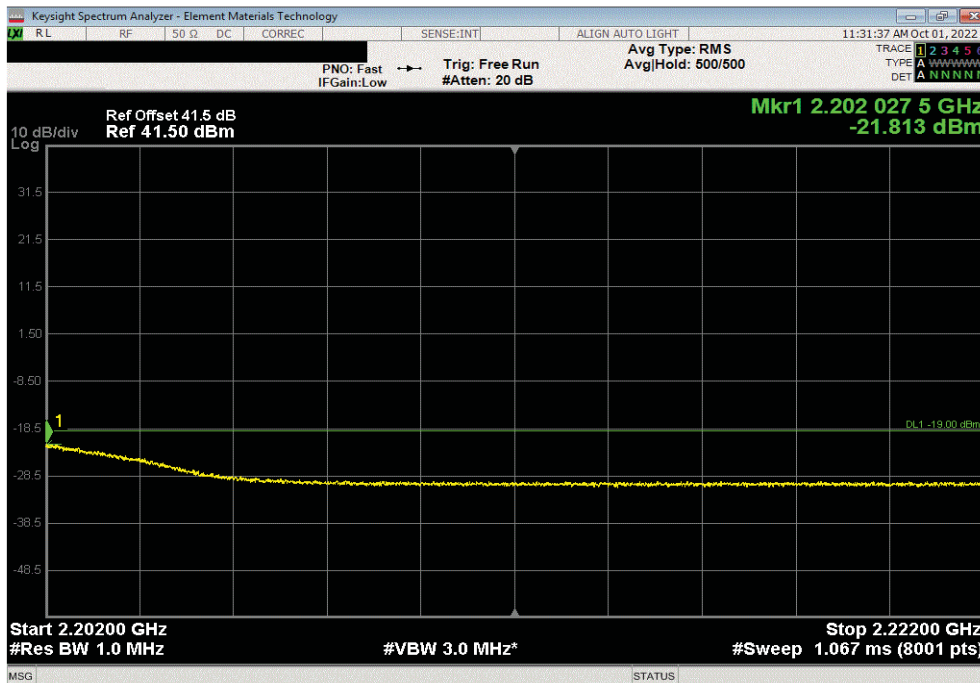


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, High Side, MultiCarrier Test Case 5, AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result		
2	2201.5	-21.63	-19	Pass		



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, High Side, MultiCarrier Test Case 5, AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)						
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result		
3	2202.03	-21.81	-19	Pass		



# SPURIOUS CONDUCTED EMISSIONS - BAND n25



XMH 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
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## 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 22 GHz. The peak 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 KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

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

Per section FCC 24.238(a), RSS-133 6.5 (ii), FCC 27.53 (h) (1), RSS-139 5.6, the power of any emission outside of the Authorized operating frequency range cannot exceed -13sBm for a 1 MHz measurement bandwidth. The limit is adjusted To -19dBm [-13 dBm -10log (4)] per FCC KDB 662911D01v02r01 because the BTS may operate as a 4 port MIMO.

RF conducted emissions testing was performed on one port. The AHFIB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in original certification report) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -49dBm = -19dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -39dBm = -19dBm -10log(1MHz/10kHz)]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

# SPURIOUS CONDUCTED EMISSIONS - BAND n25



TbTx 2022.06.03.0 XMt 2022.02.07.0

EUT: AHFIB	Work Order: NOKI0049
Serial Number: K9181401111	Date: 29-Sep-22
Customer: Nokia of America Corporation	Temperature: 20.4 °C
Attendees: John Rattanavong	Humidity: 43.3% RH
Project: None	Barometric Pres.: 1028 mbar
Tested by: Marty Martin	Power: 54 VDC
	Job Site: TX07

TEST SPECIFICATIONS	Test Method
FCC 27:2022	ANSI C63.26:2015
RSS-133 Issue 6: 2013+A12018	RSS-133 Issue 6: 2013+A12018
RSS-139 Issue 4: 2022	RSS-139 Issue 4: 2022

**COMMENTS**  
 All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The Band n25 carrier was enabled at maximum power (40 watts/carrier). The Band n66 carrier was enabled on the middle channel (2155MHz) at 40 watts with the same channel bandwidth and modulation type as the Band n25 carrier. The port power was set at the maximum level of 80 Watts [Band n25 carrier (40W) and Band n66 carrier (40W)].

**DEVIATIONS FROM TEST STANDARD**  
 None

Configuration #	1, 2, 3, 4	Signature <i>Marty Martin</i>
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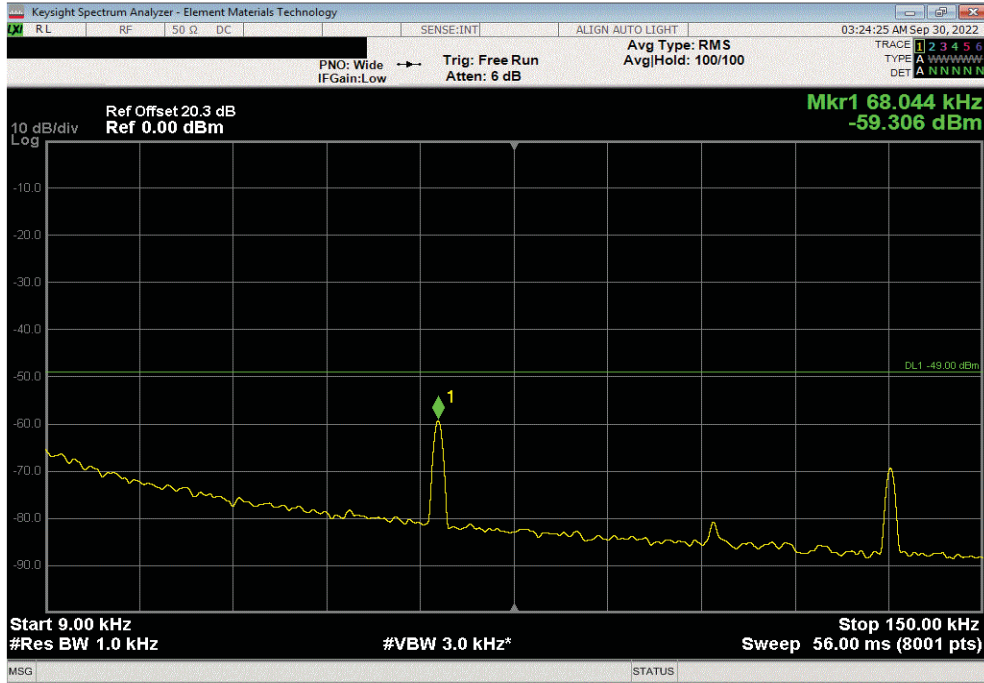
		Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 1, NR, Band n25, 1930 - 1995 MHz						
30 MHz						
QPSK						
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	0.07	-59.31	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	0.15	-63.84	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz	3098.06	-26.74	-19	Pass
	Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz	4003.5	-40.57	-19	Pass
	Mid Channel, 1962.5 MHz	13 GHz - 22 GHz	21558.55	-34.17	-19	Pass
16QAM						
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	0.07	-59.64	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	0.15	-63.7	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz	3210.73	-26.97	-19	Pass
	Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz	4008.73	-40.59	-19	Pass
	Mid Channel, 1962.5 MHz	13 GHz - 22 GHz	21540.55	-34.02	-19	Pass
64QAM						
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	0.07	-59.27	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	0.15	-63.85	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz	3180.71	-27.33	-19	Pass
	Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz	4028.68	-40.66	-19	Pass
	Mid Channel, 1962.5 MHz	13 GHz - 22 GHz	21537.4	-34.3	-19	Pass
256QAM						
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	0.07	-59.4	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	0.15	-63.27	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz	3117.64	-27.28	-19	Pass
	Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz	3995.43	-40.67	-19	Pass
	Mid Channel, 1962.5 MHz	13 GHz - 22 GHz	21945.1	-34.11	-19	Pass

# SPURIOUS CONDUCTED EMISSIONS - BAND n25

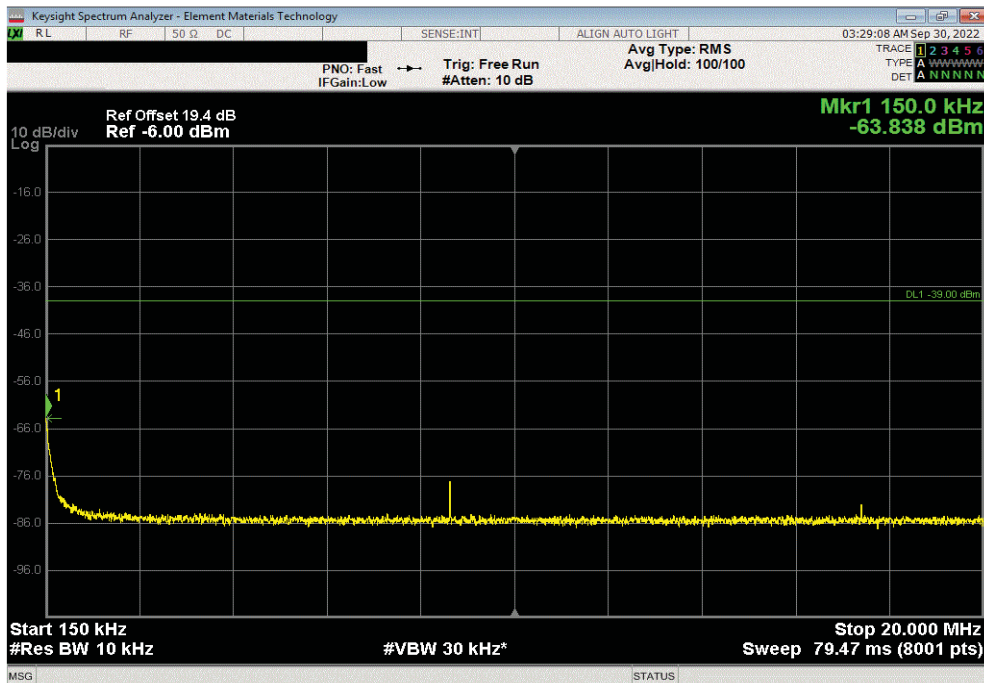


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.07	-59.31	-49	Pass	



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	0.15	-63.84	-39	Pass	

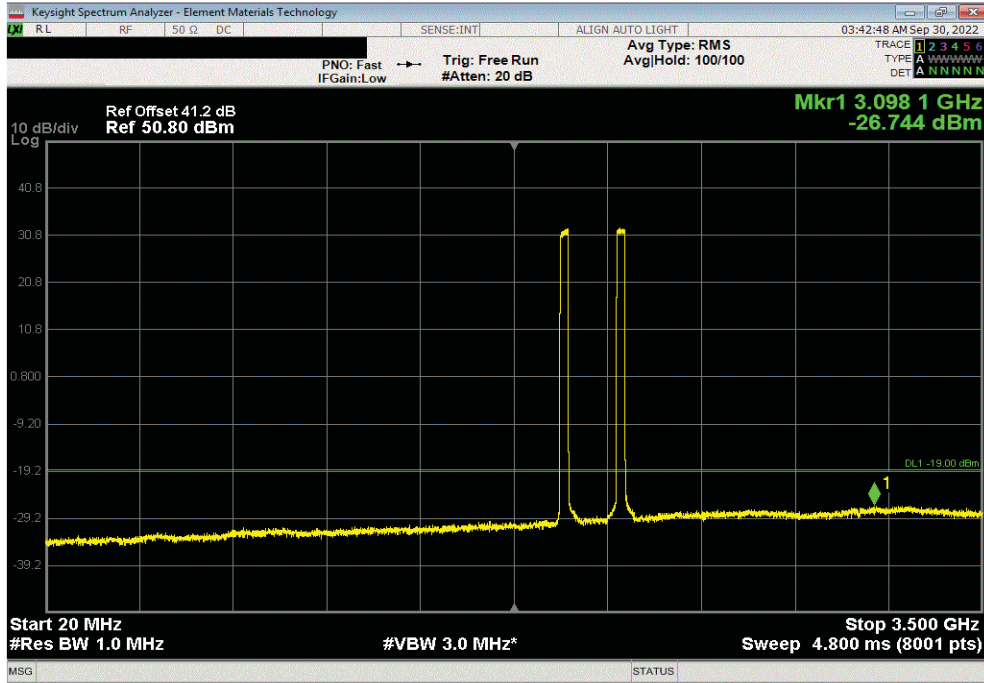


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

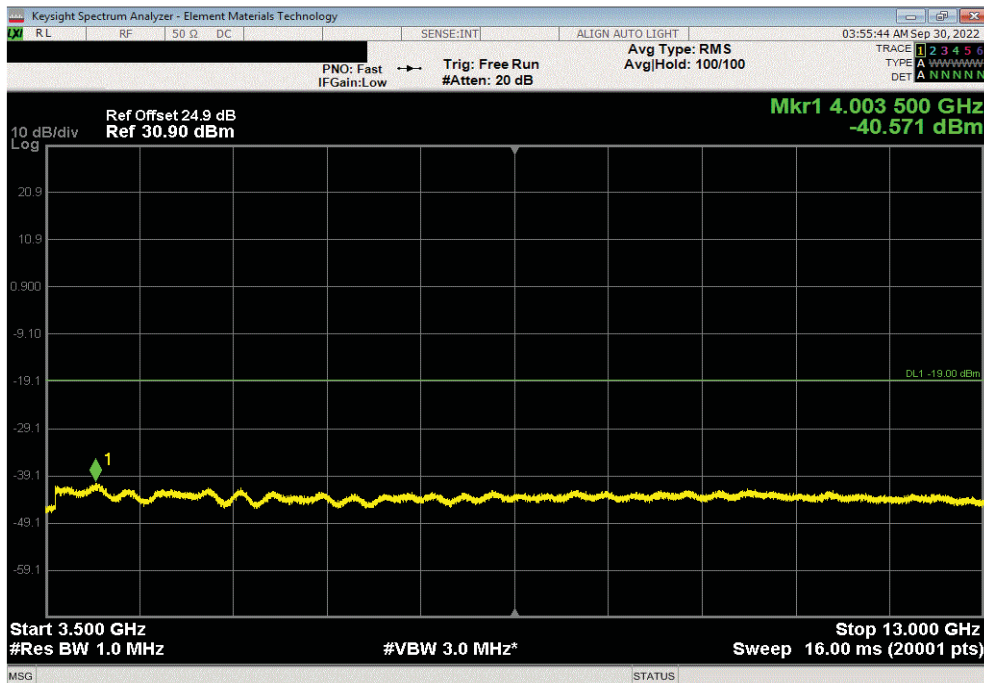


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3098.06	-26.74	-19	Fail



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4003.5	-40.57	-19	Pass



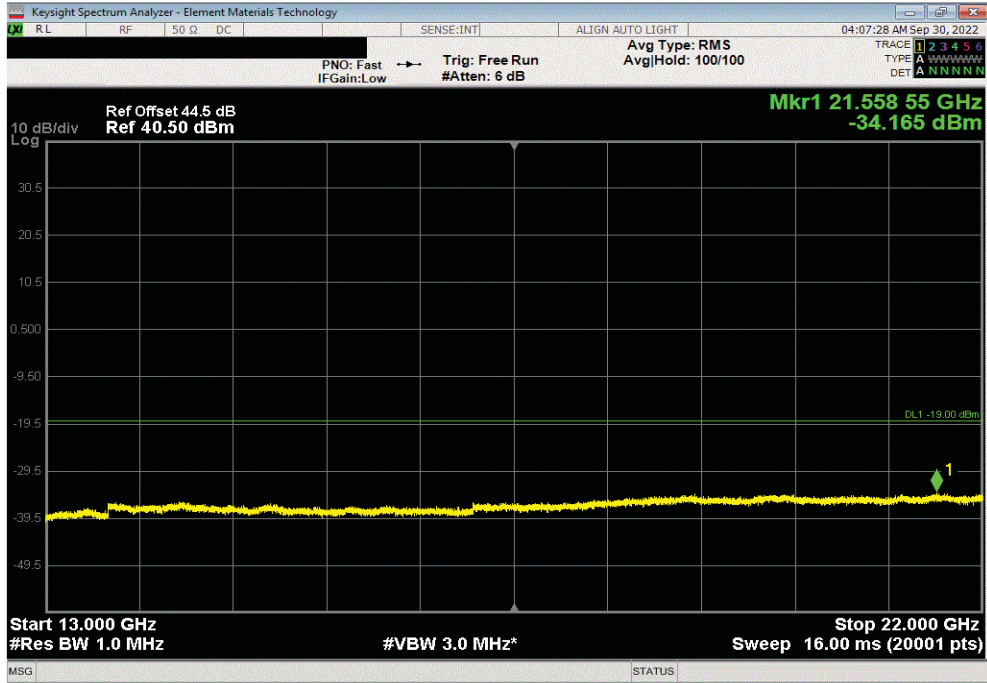


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

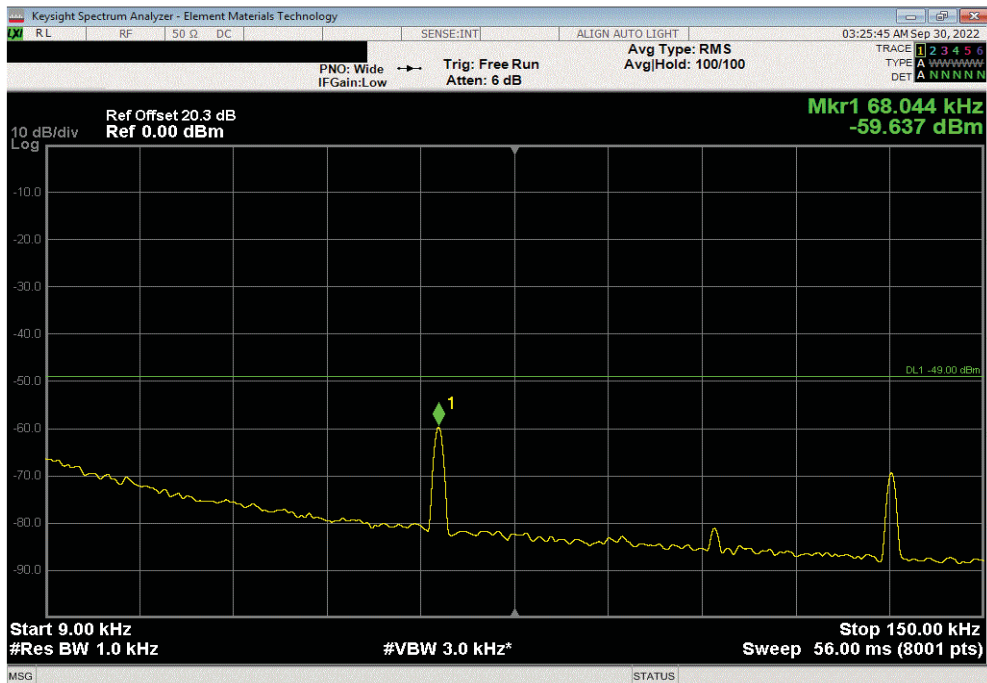


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21558.55	-34.17	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-59.64	-49	Pass

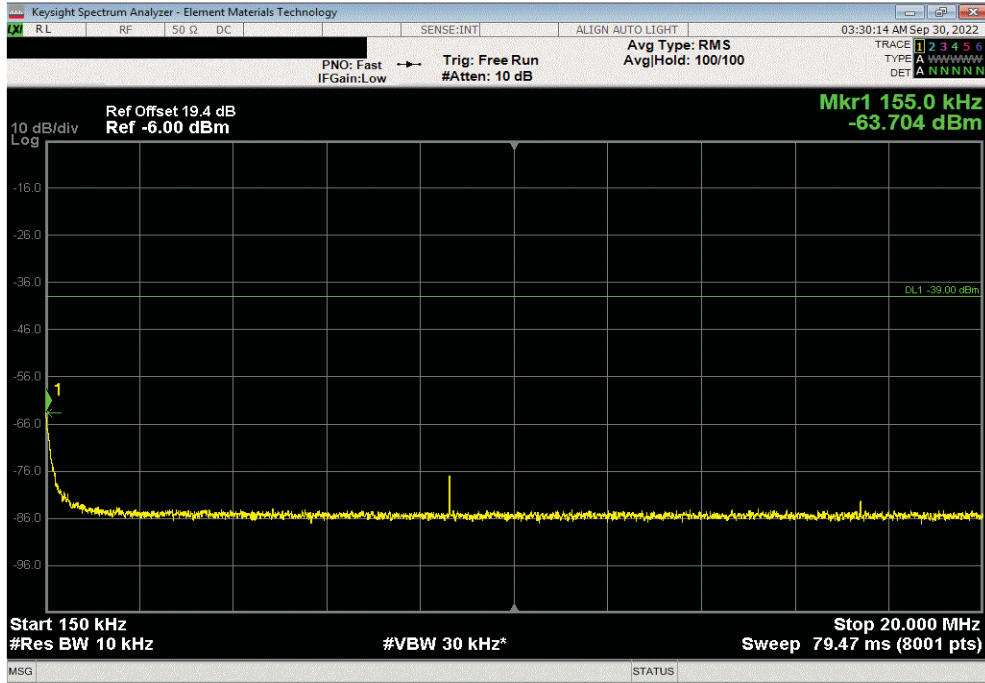


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

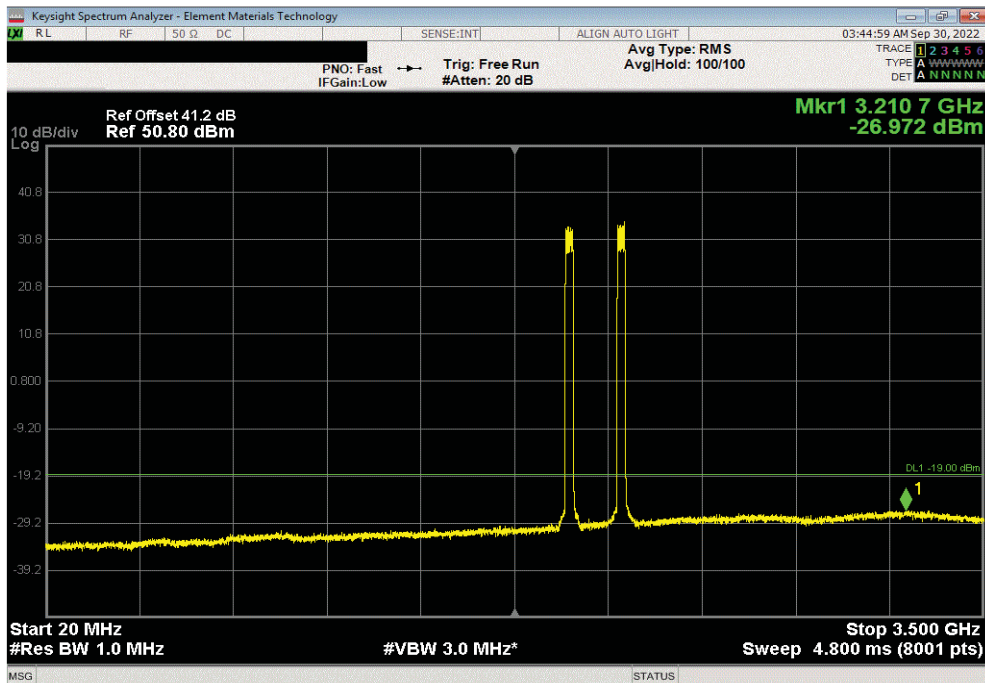


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	0.15	-63.7	-39	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3210.73	-26.97	-19	Fail



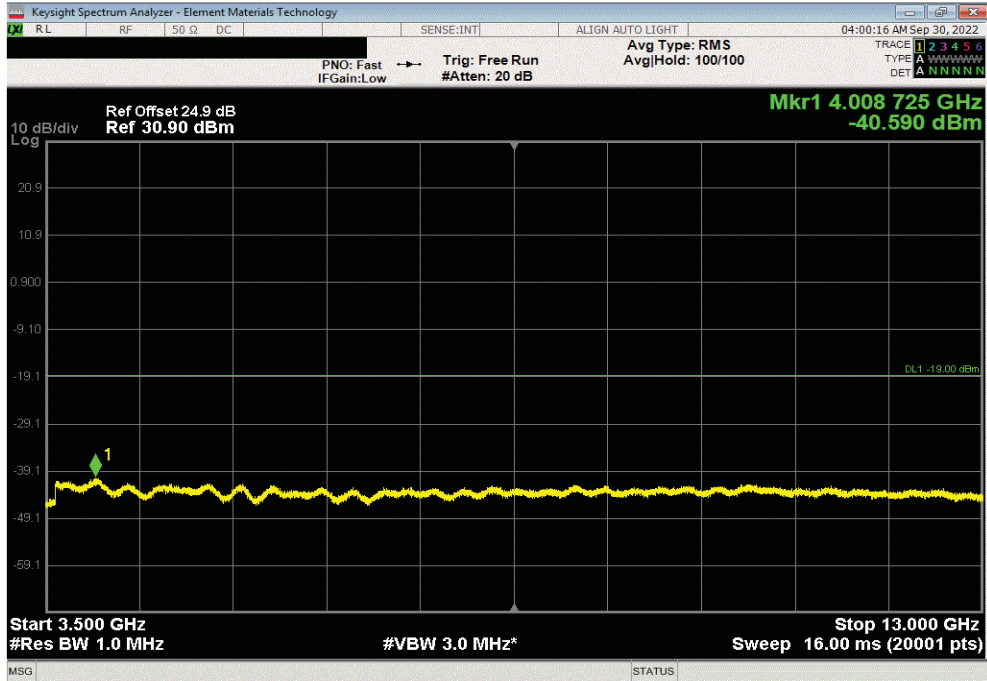


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

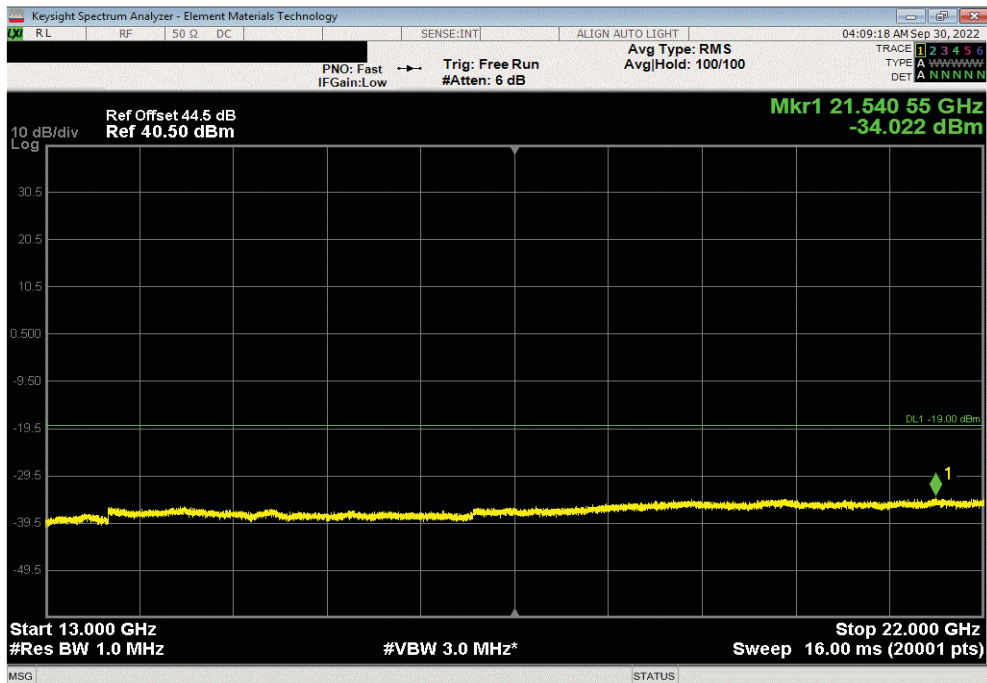


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4008.73	-40.59	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21540.55	-34.02	-19	Pass

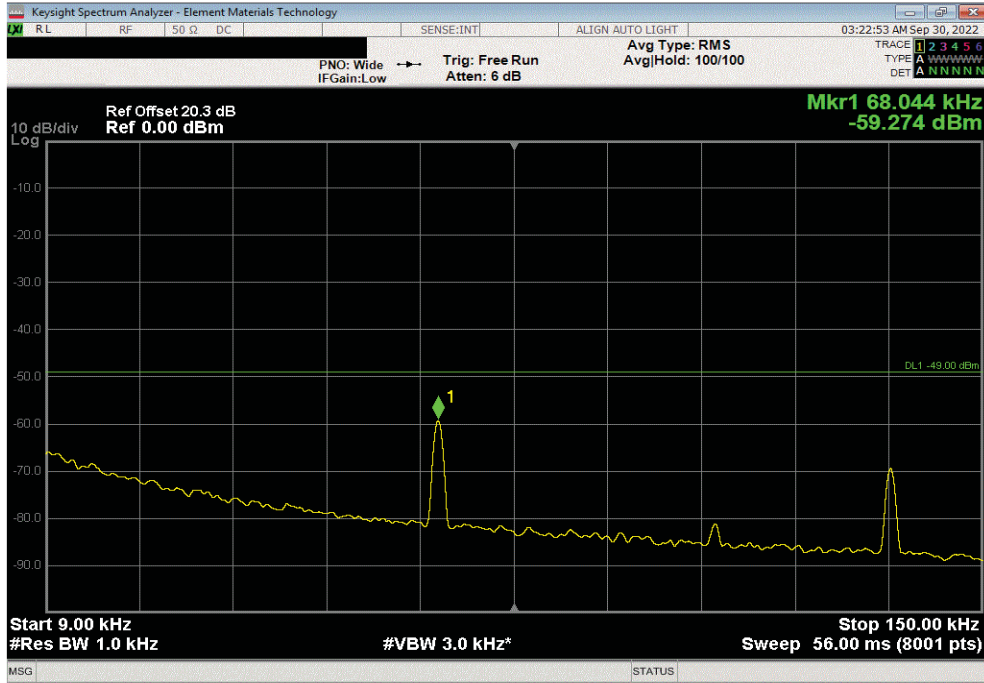


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

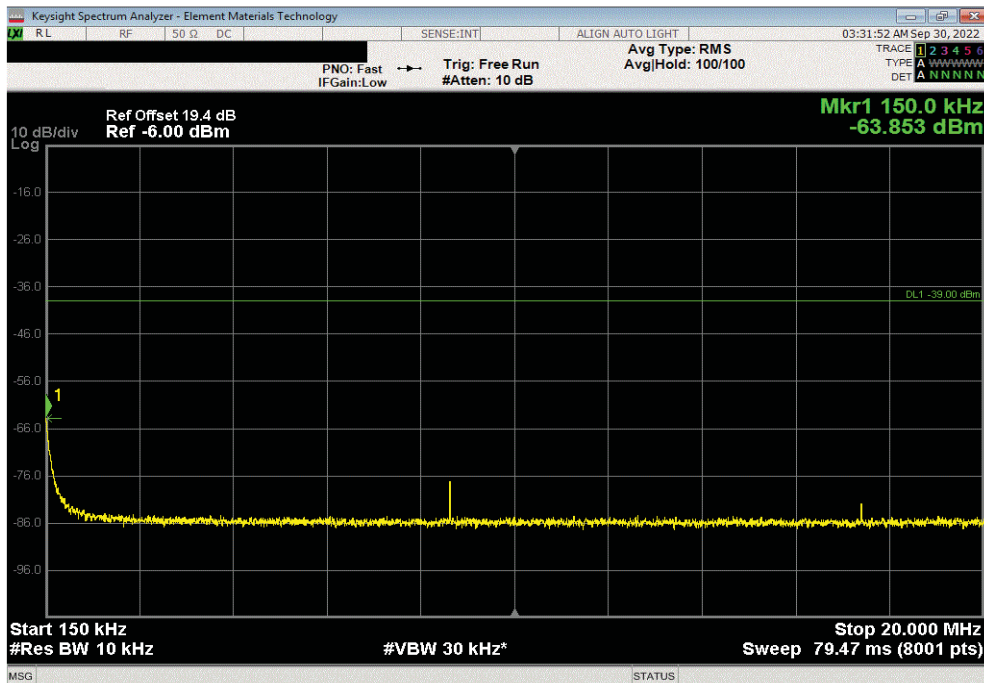


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.07	-59.27	-49	Pass	



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	0.15	-63.85	-39	Pass	

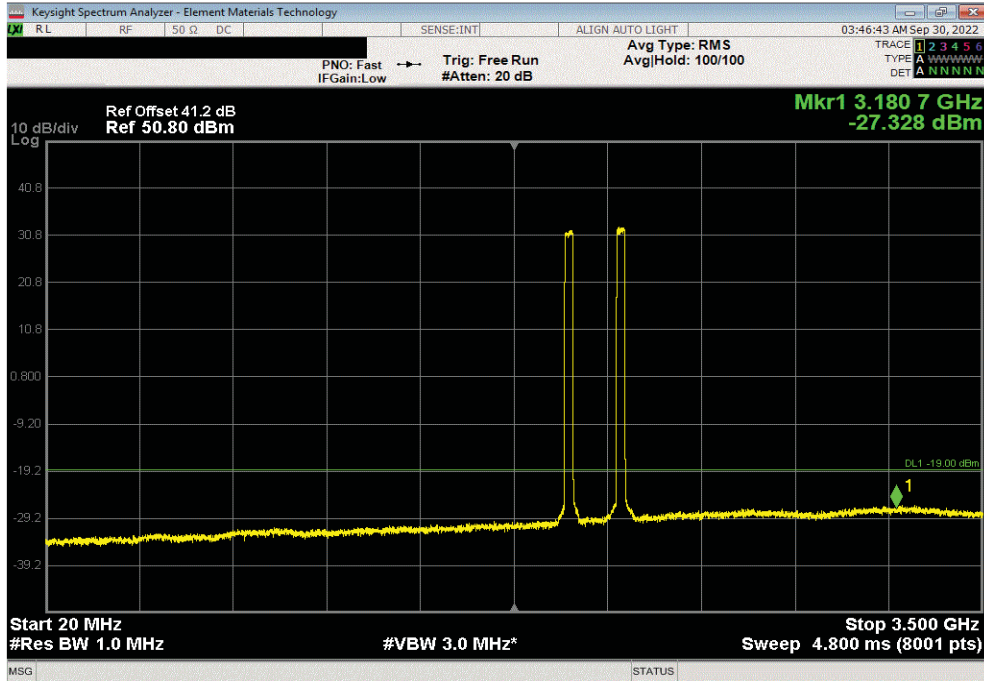


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

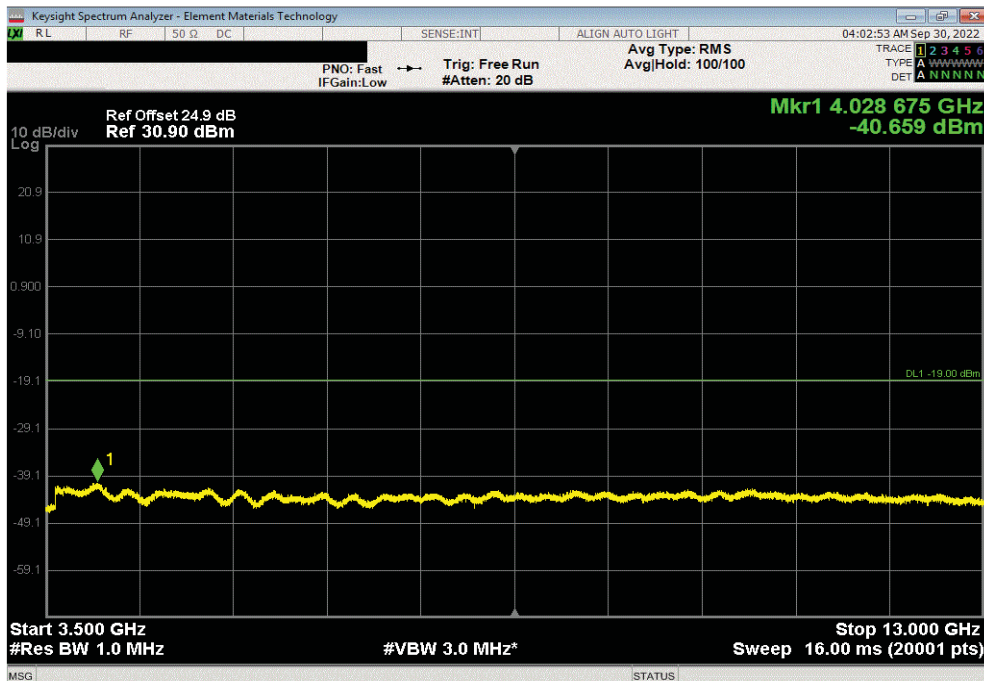


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3180.71	-27.33	-19	Fail



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4028.68	-40.66	-19	Pass

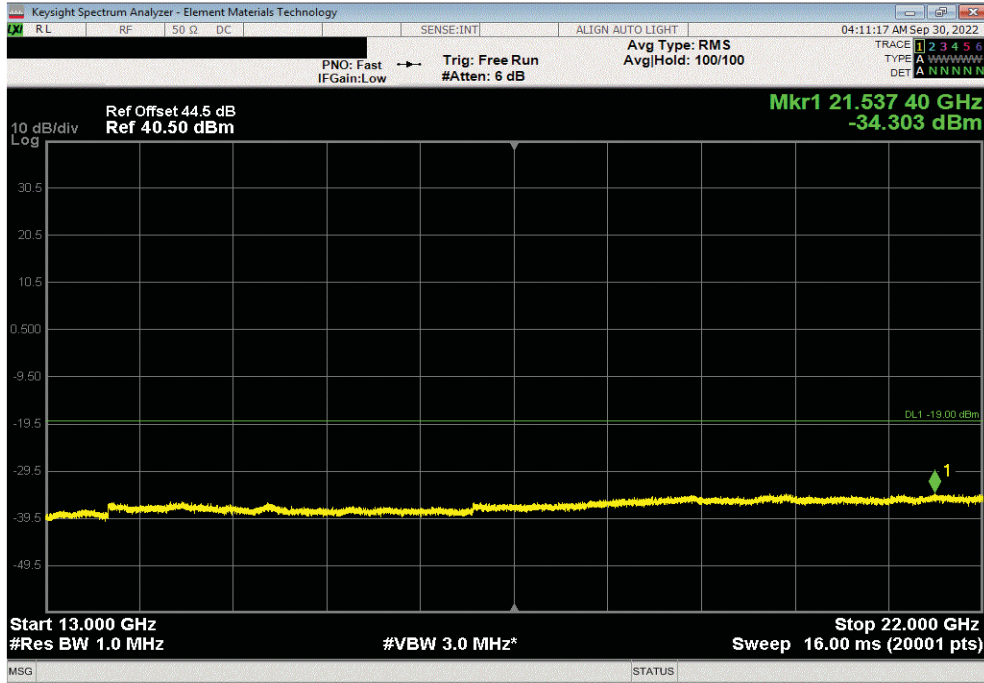


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

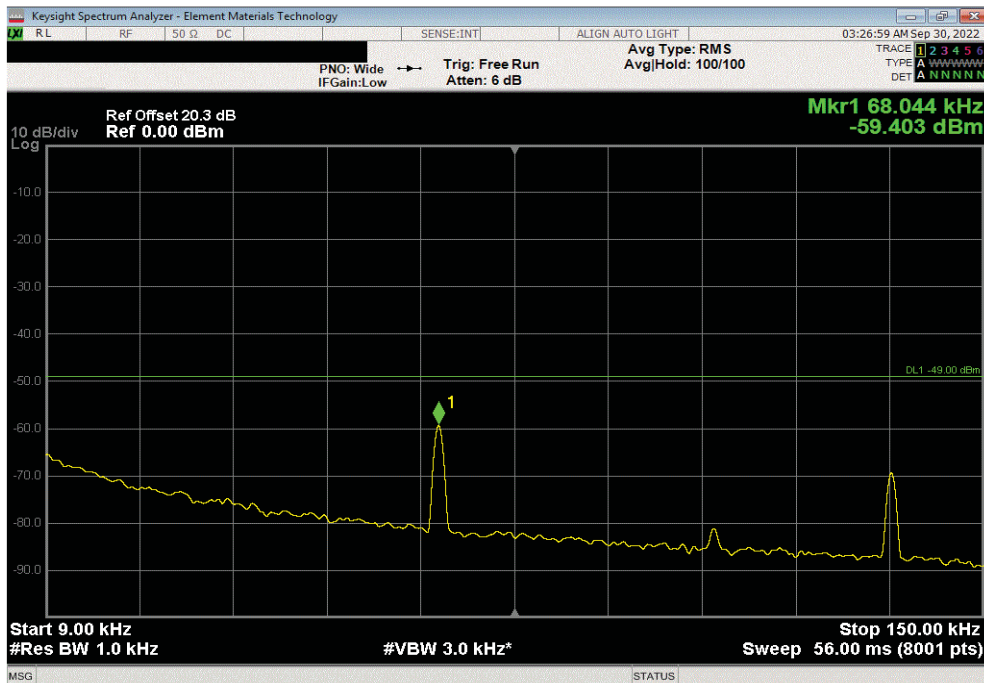


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21537.4	-34.3	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-59.4	-49	Pass

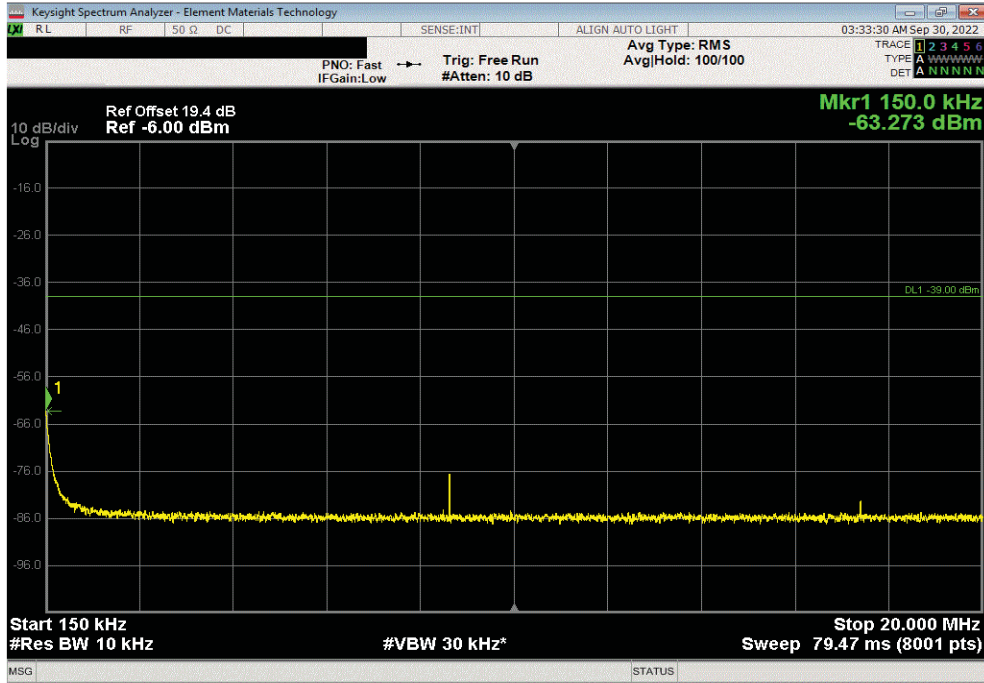


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

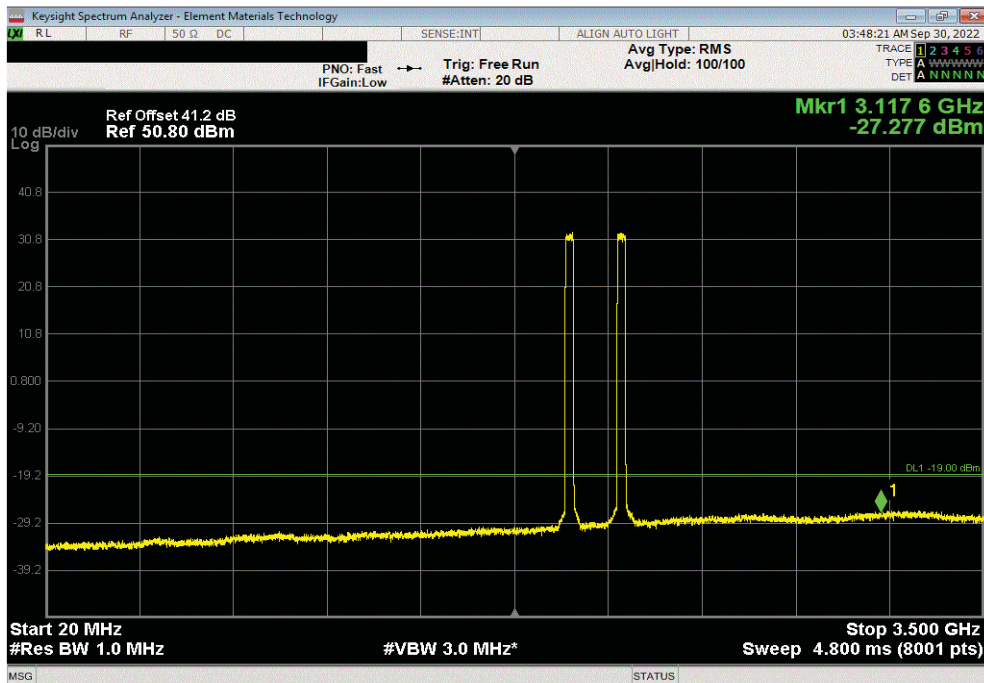


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	0.15	-63.27	-39	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3117.64	-27.28	-19	Fail



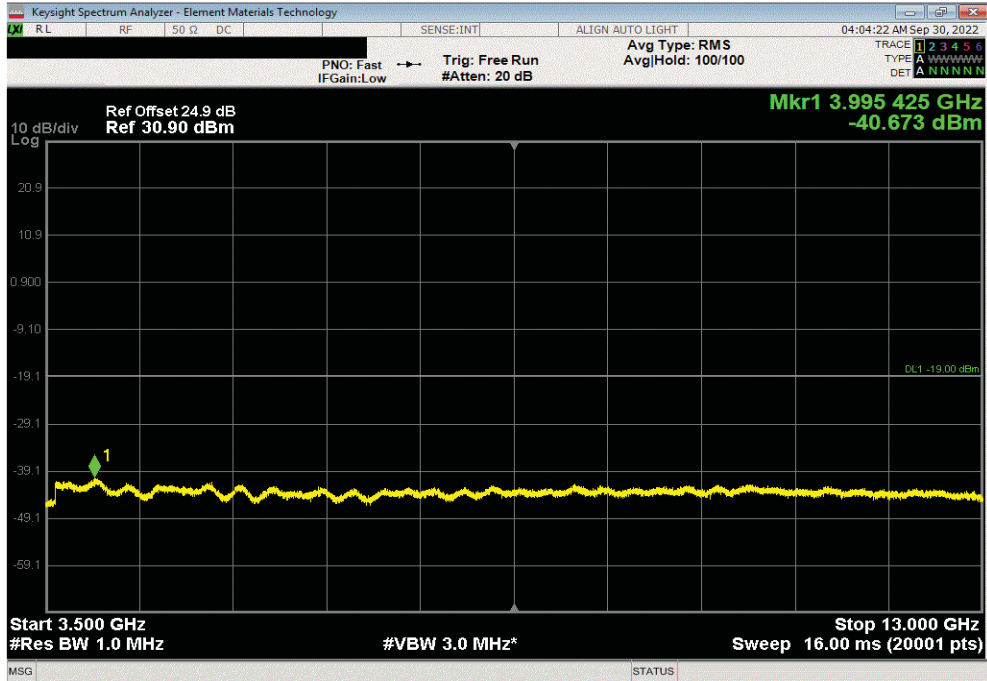


# SPURIOUS CONDUCTED EMISSIONS - BAND n25

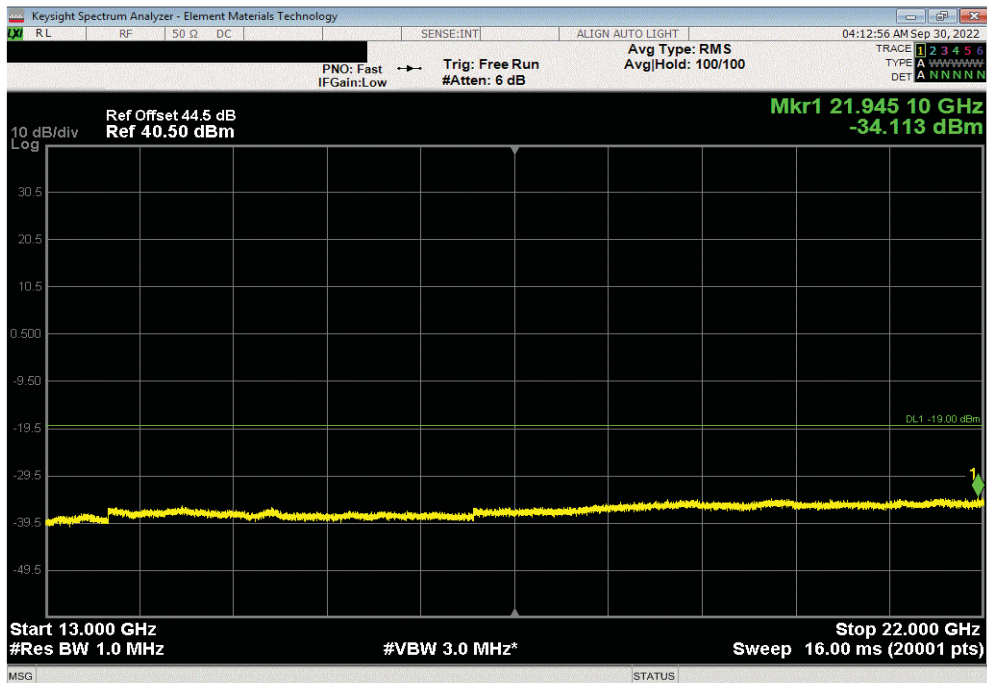


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	3995.43	-40.67	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21945.1	-34.11	-19	Pass



# SPURIOUS CONDUCTED EMISSIONS - BAND n66



XMR 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
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## 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 22 GHz. The peak 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 KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

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

Per section FCC 24.238(a), RSS-133 6.5 (ii), FCC 27.53 (h) (1), RSS-139 5.6, the power of any emission outside of the Authorized operating frequency range cannot exceed -13sBm for a 1 MHz measurement bandwidth. The limit is adjusted To -19dBm [-13 dBm -10log (4)] per FCC KDB 662911D01v02r01 because the BTS may operate as a 4 port MIMO.

RF conducted emissions testing was performed on one port. The AHFIB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in original certification report) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -49dBm = -19dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -39dBm = -19dBm -10log(1MHz/10kHz)]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

# SPURIOUS CONDUCTED EMISSIONS - BAND n66



Tel: 2022.06.03.0 XMI: 2022.02.07.0

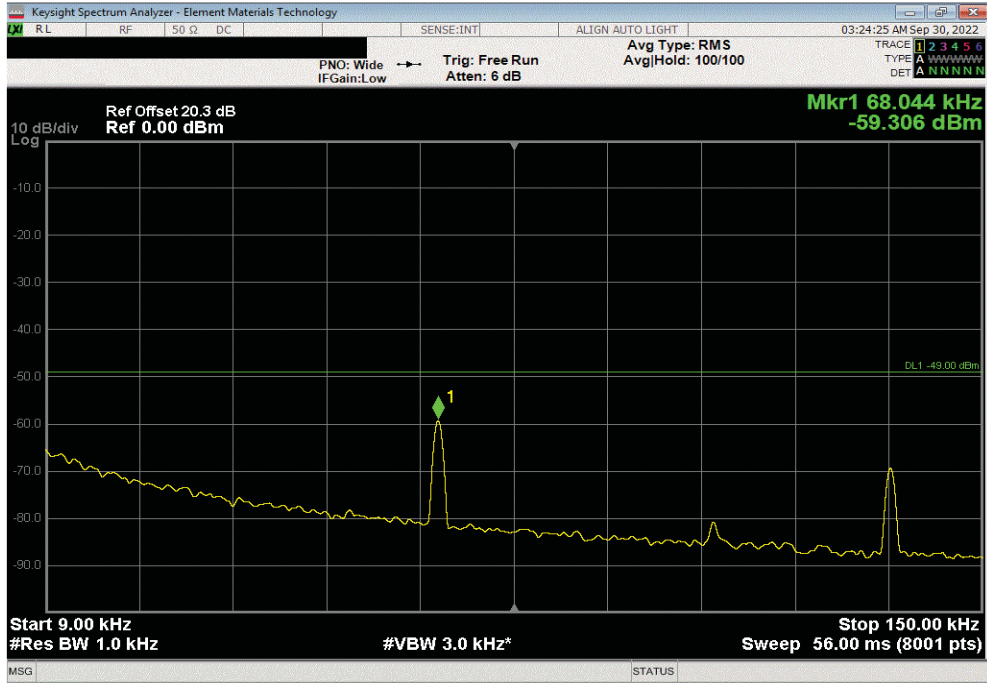
EUT: AHFIB		Work Order: NOKI0049	
Serial Number: K9181401111		Date: 29-Sep-22	
Customer: Nokia of America Corporation		Temperature: 20.4 °C	
Attendees: John Rattanavong		Humidity: 43.3% RH	
Project: None		Barometric Pres.: 1028 mbar	
Tested by: Marty Martin		Power: 54 VDC	
Job Site: TX07		Test Method	
TEST SPECIFICATIONS		ANSI C63.26:2015	
FCC 27:2022		RSS-133 Issue 6: 2013+A12018	
RSS-133 Issue 6: 2013+A12018		RSS-139 Issue 4: 2022	
RSS-139 Issue 4: 2022		RSS-139 Issue 4: 2022	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The Band n66 carrier was enabled at maximum power (40 watts/carrier). The Band n25 carrier was enabled on the middle channel (1962.5MHz) at 40 watts with the same channel bandwidth and modulation type as the Band n66 carrier. The port power was set at the maximum level of 80 Watts [Band n25 carrier (40W) and Band n66 carrier (40W)].			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1, 2, 3, 4	Signature <i>Marty Martin</i>	
		Frequency Range	Measured Freq (MHz)
			Max Value (dBm)
			Limit < (dBm)
			Result
Port 1, NR, Band n25, 1930 - 1995 MHz			
30 MHz			
QPSK			
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz
		Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz
		Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz
		Mid Channel, 1962.5 MHz	13 GHz - 22 GHz
			0.07
			-59.31
			-49
			Pass
			0.15
			-63.84
			-39
			Pass
			3098.06
			-26.74
			-19
			Pass
			4003.5
			-40.57
			-19
			Pass
			21558.55
			-34.17
			-19
			Pass
16QAM			
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz
		Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz
		Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz
		Mid Channel, 1962.5 MHz	13 GHz - 22 GHz
			0.07
			-59.64
			-49
			Pass
			0.15
			-63.7
			-39
			Pass
			3210.73
			-26.97
			-19
			Pass
			4008.73
			-40.59
			-19
			Pass
			21540.55
			-34.02
			-19
			Pass
64QAM			
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz
		Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz
		Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz
		Mid Channel, 1962.5 MHz	13 GHz - 22 GHz
			0.07
			-59.27
			-49
			Pass
			0.15
			-63.85
			-39
			Pass
			3180.71
			-27.33
			-19
			Pass
			4028.68
			-40.66
			-19
			Pass
			21537.4
			-34.3
			-19
			Pass
256QAM			
		Mid Channel, 1962.5 MHz	9 kHz - 150 kHz
		Mid Channel, 1962.5 MHz	150 kHz - 20 MHz
		Mid Channel, 1962.5 MHz	20 MHz - 3.5 GHz
		Mid Channel, 1962.5 MHz	3.5 GHz - 13 GHz
		Mid Channel, 1962.5 MHz	13 GHz - 22 GHz
			0.07
			-59.4
			-49
			Pass
			0.15
			-63.27
			-39
			Pass
			3117.64
			-27.28
			-19
			Pass
			3995.43
			-40.67
			-19
			Pass
			21945.1
			-34.11
			-19
			Pass

# SPURIOUS CONDUCTED EMISSIONS - BAND n66

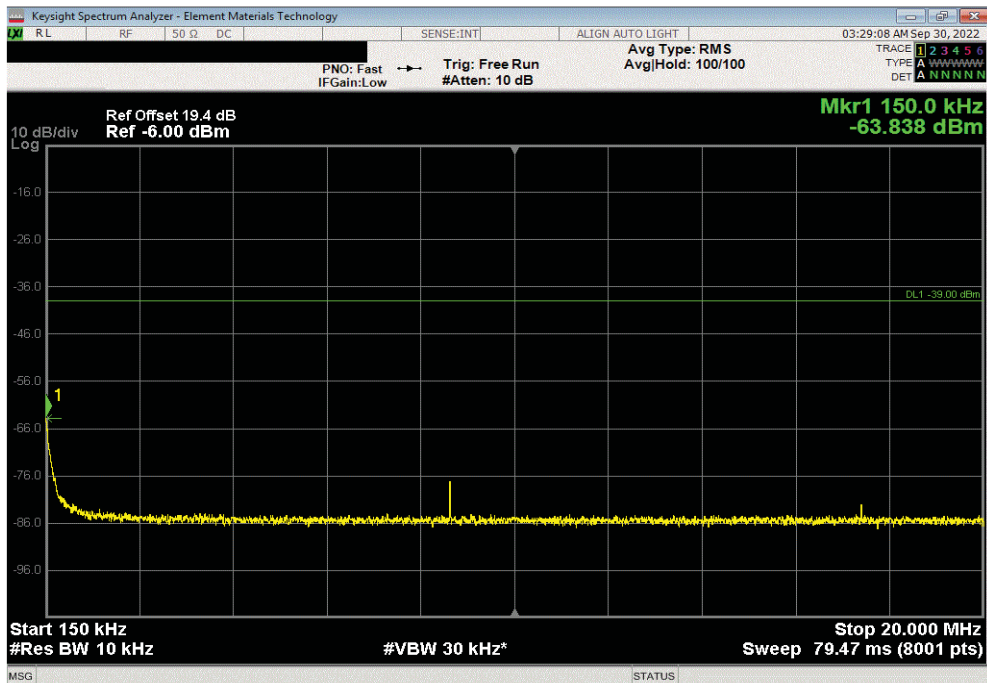


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.07	-59.31	-49	Pass	



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	0.15	-63.84	-39	Pass	

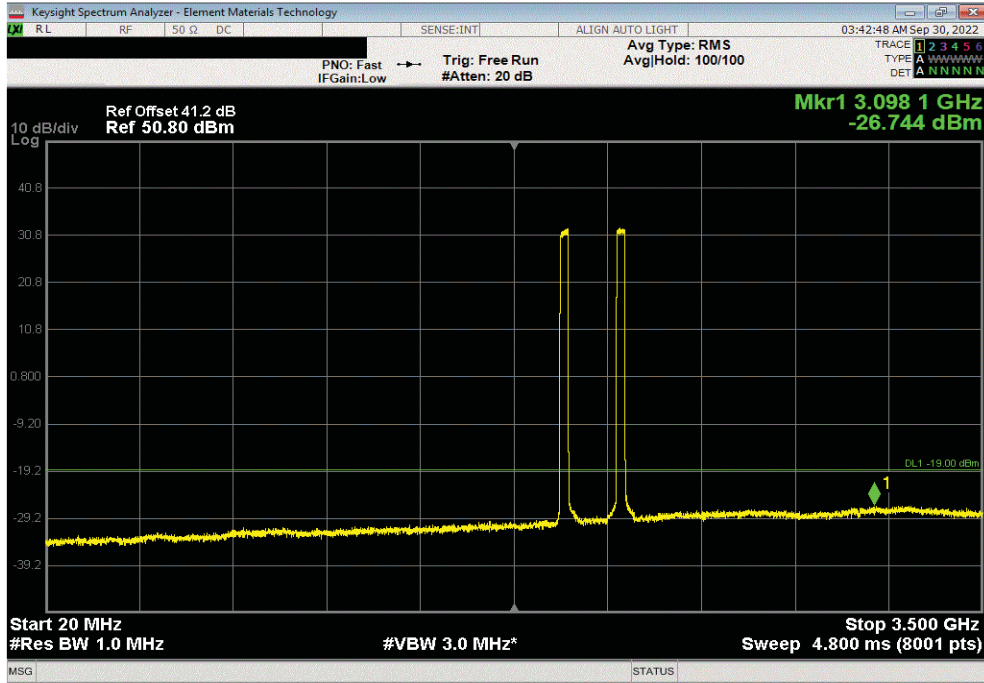


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

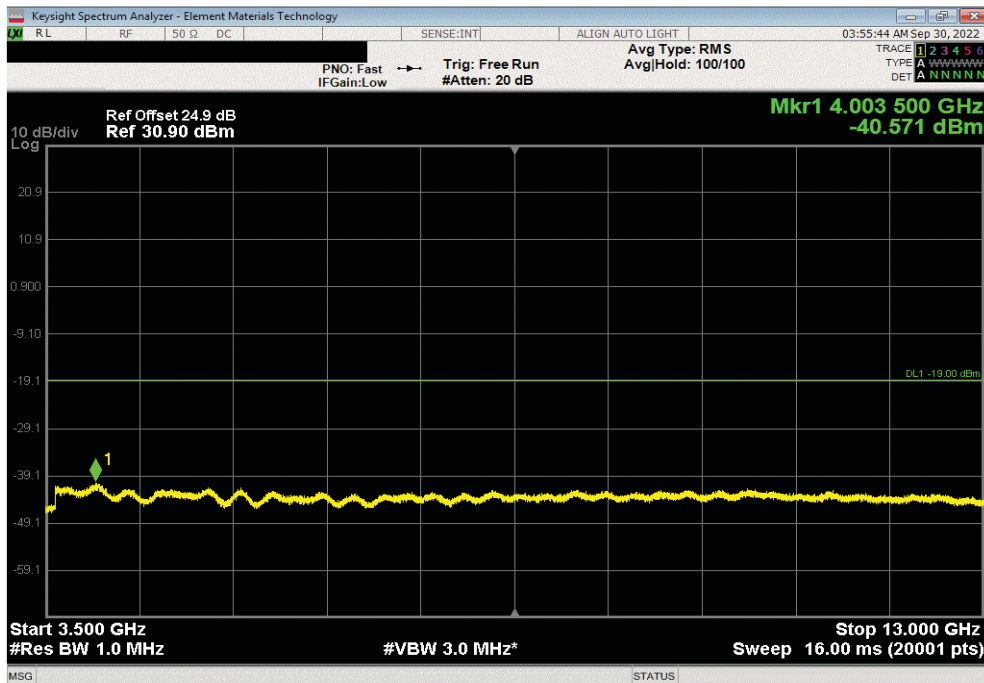


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3098.06	-26.74	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4003.5	-40.57	-19	Pass



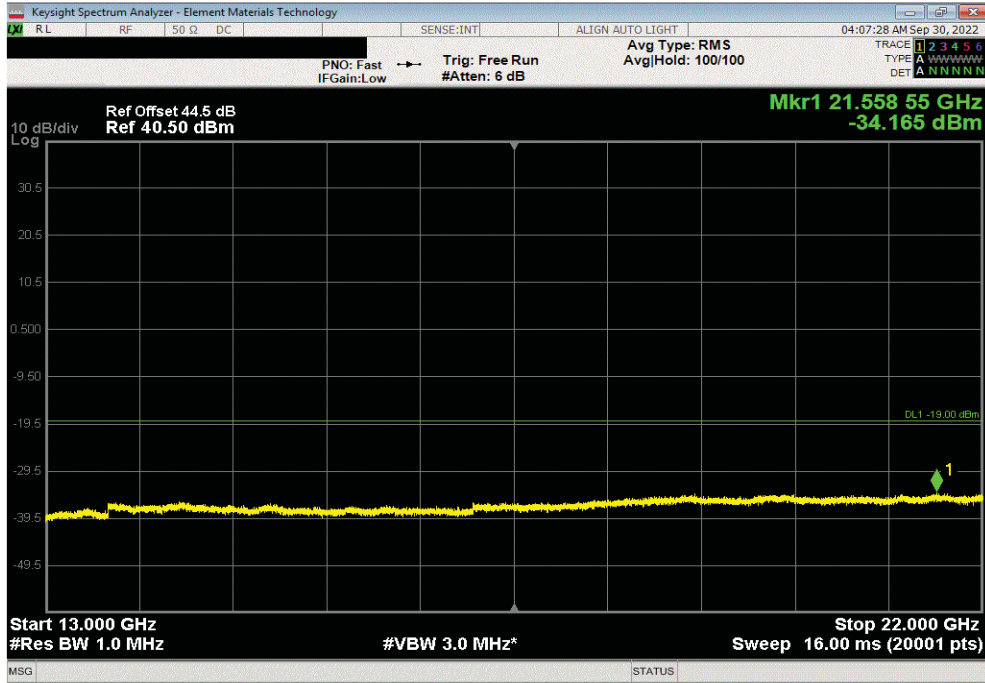


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

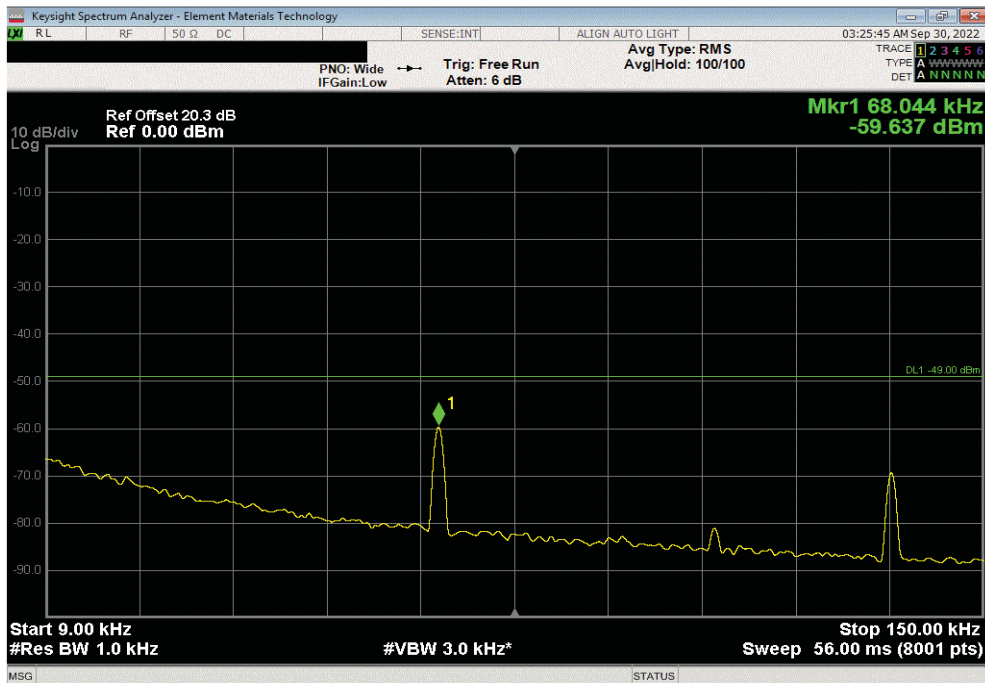


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, QPSK, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21558.55	-34.17	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-59.64	-49	Pass

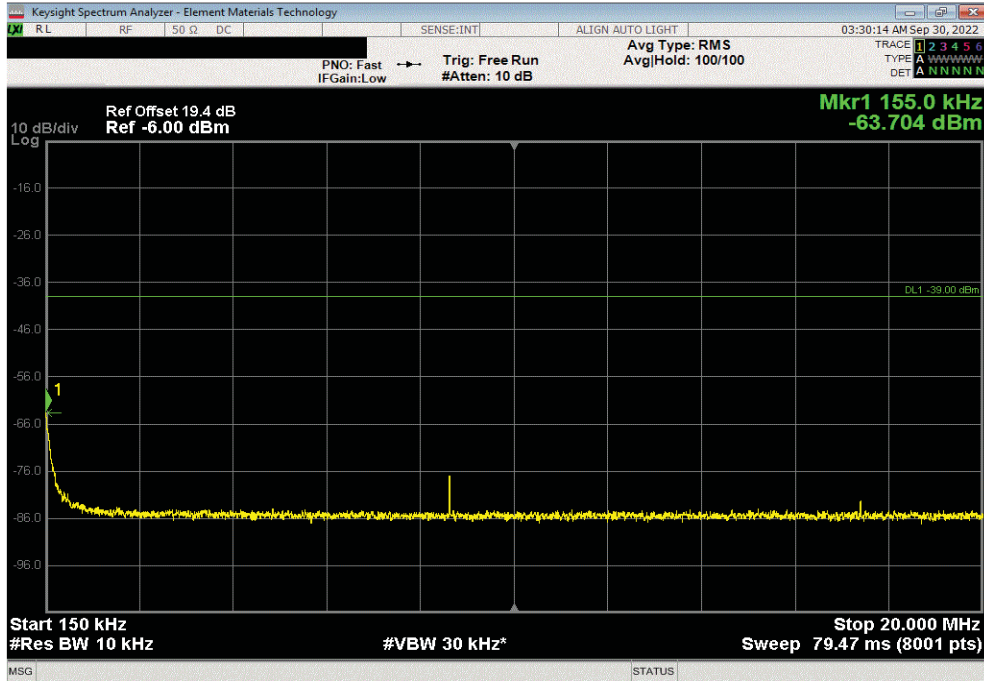


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

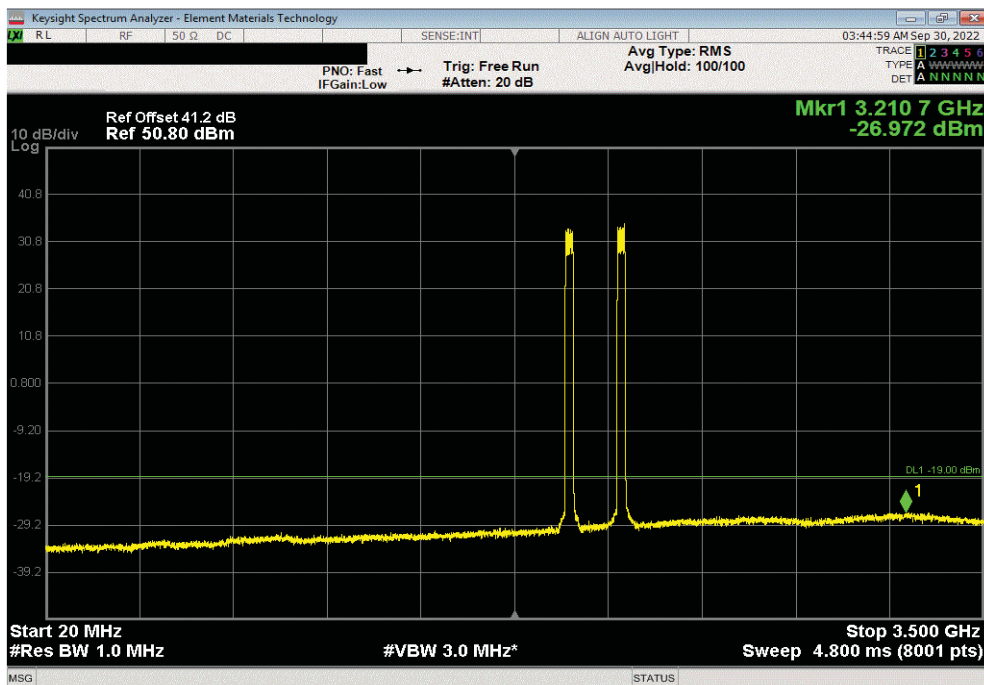


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	0.15	-63.7	-39	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3210.73	-26.97	-19	Pass

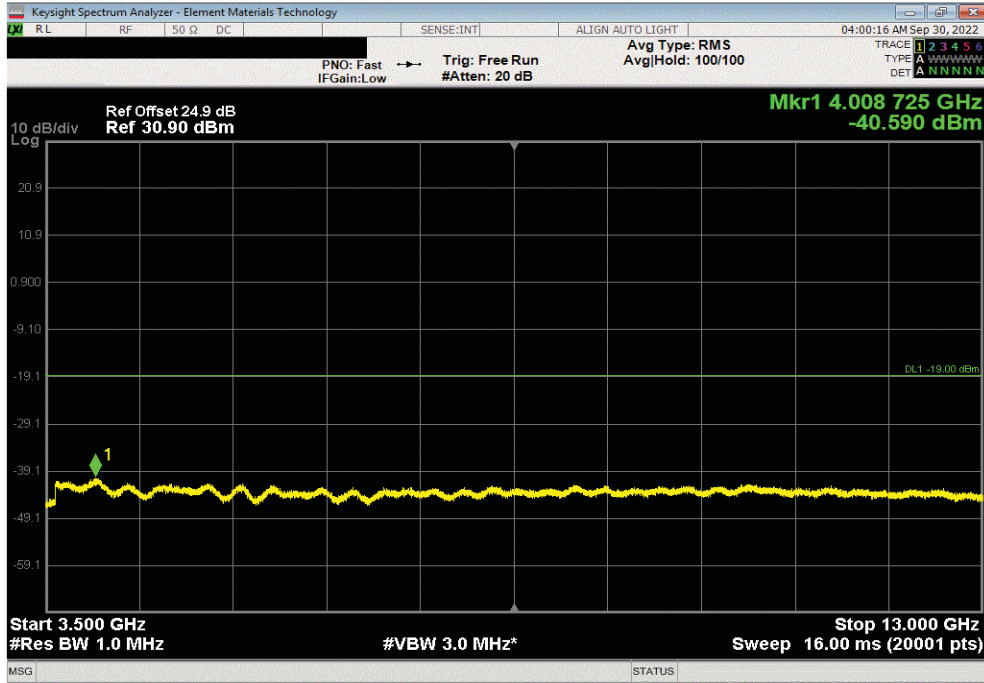


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

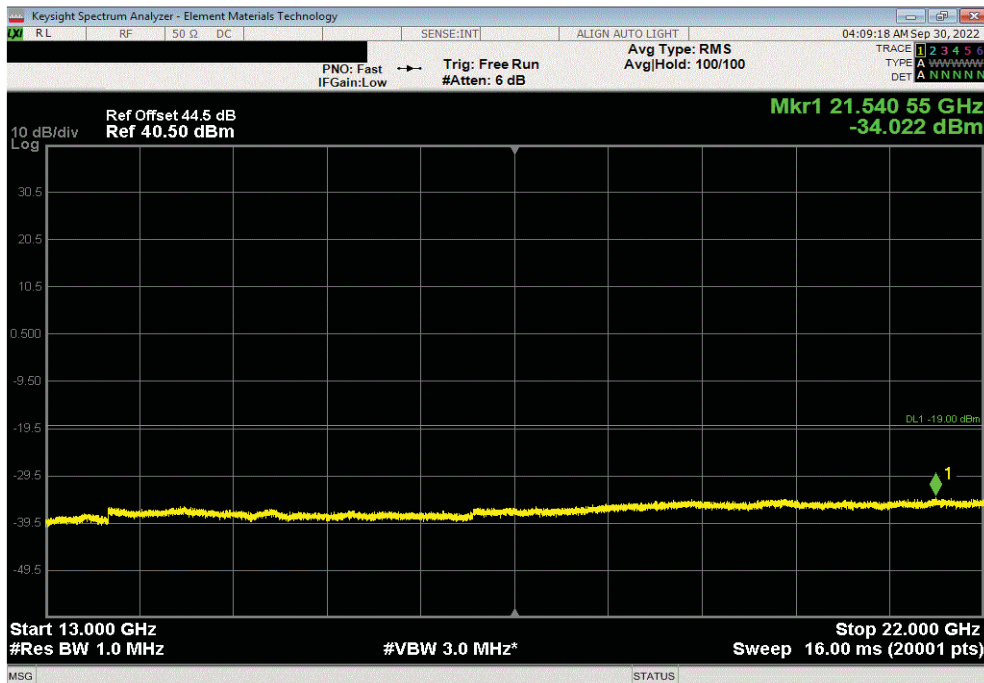


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4008.73	-40.59	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 16QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21540.55	-34.02	-19	Pass

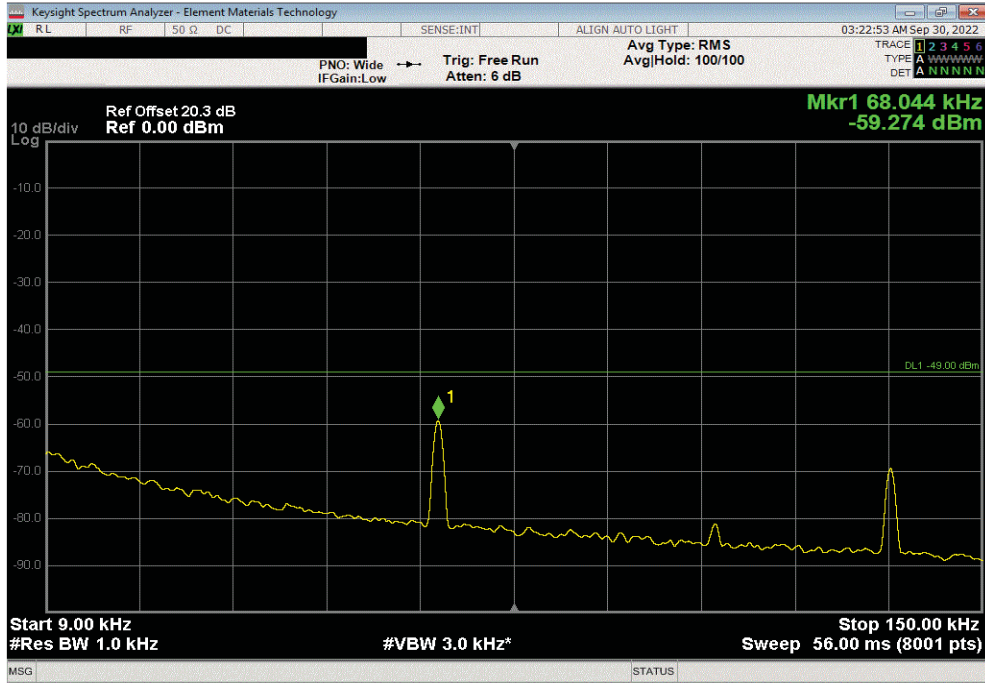


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

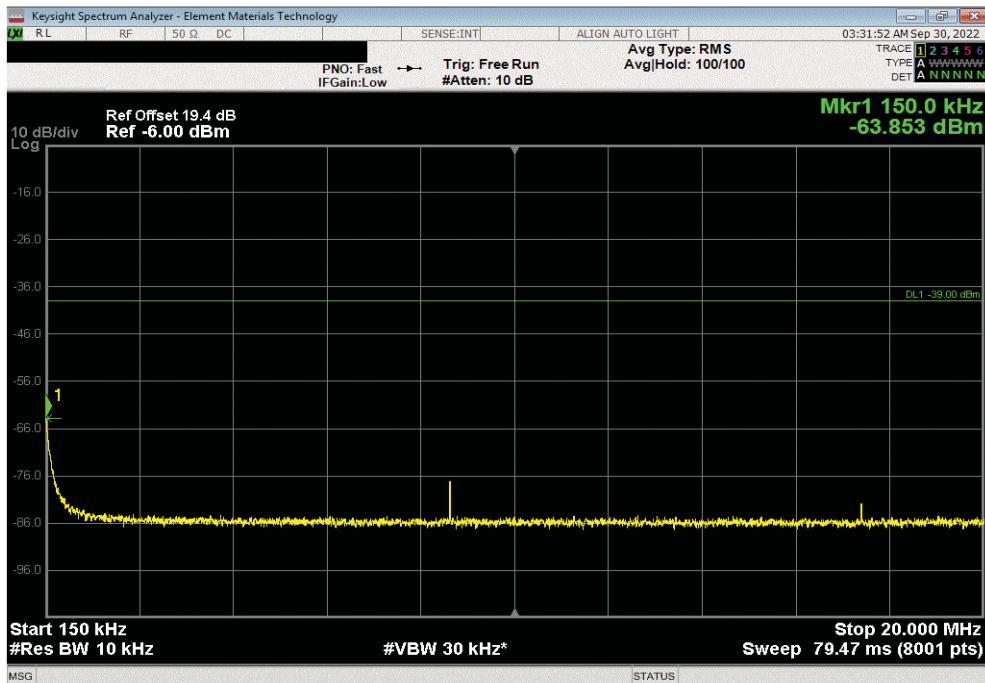


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
9 kHz - 150 kHz	0.07	-59.27	-49	Pass	



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result	
150 kHz - 20 MHz	0.15	-63.85	-39	Pass	

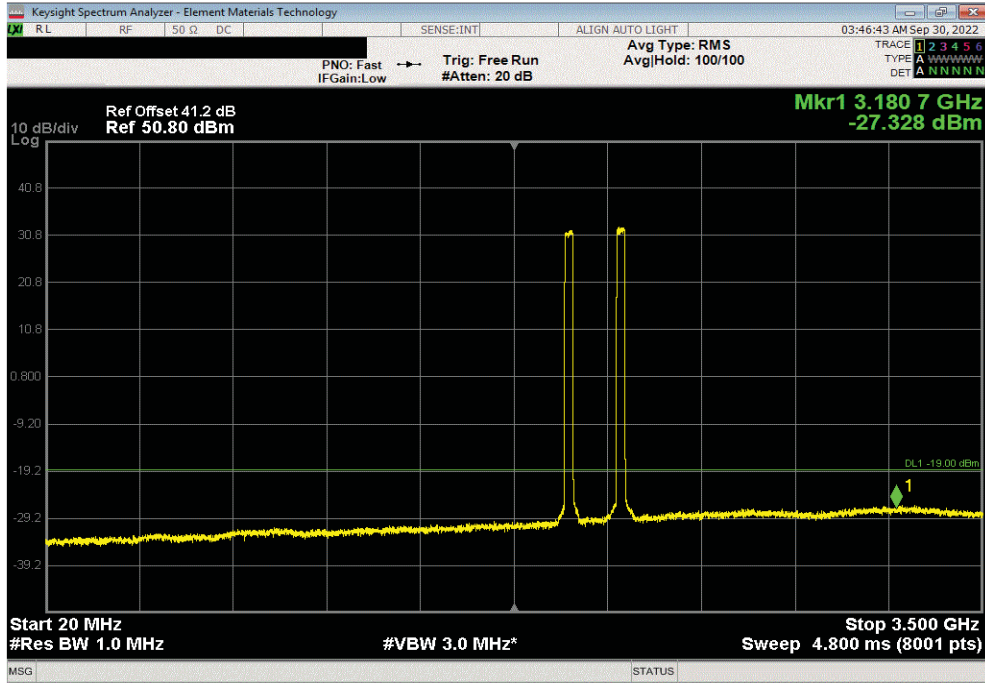


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

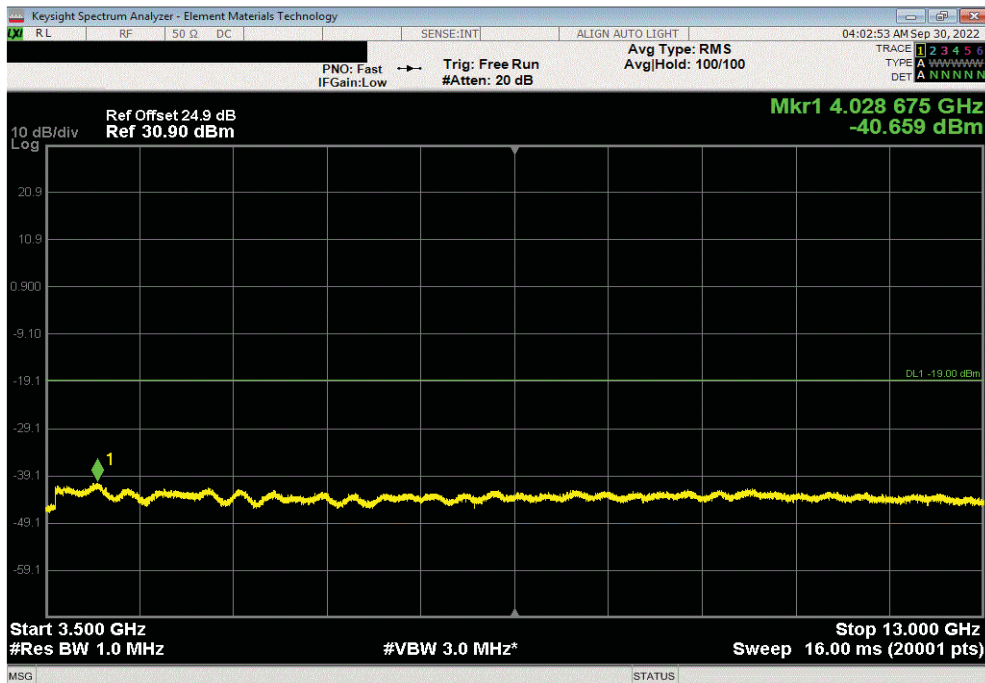


TbTx 2022.06.03.0 XMit 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3180.71	-27.33	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4028.68	-40.66	-19	Pass



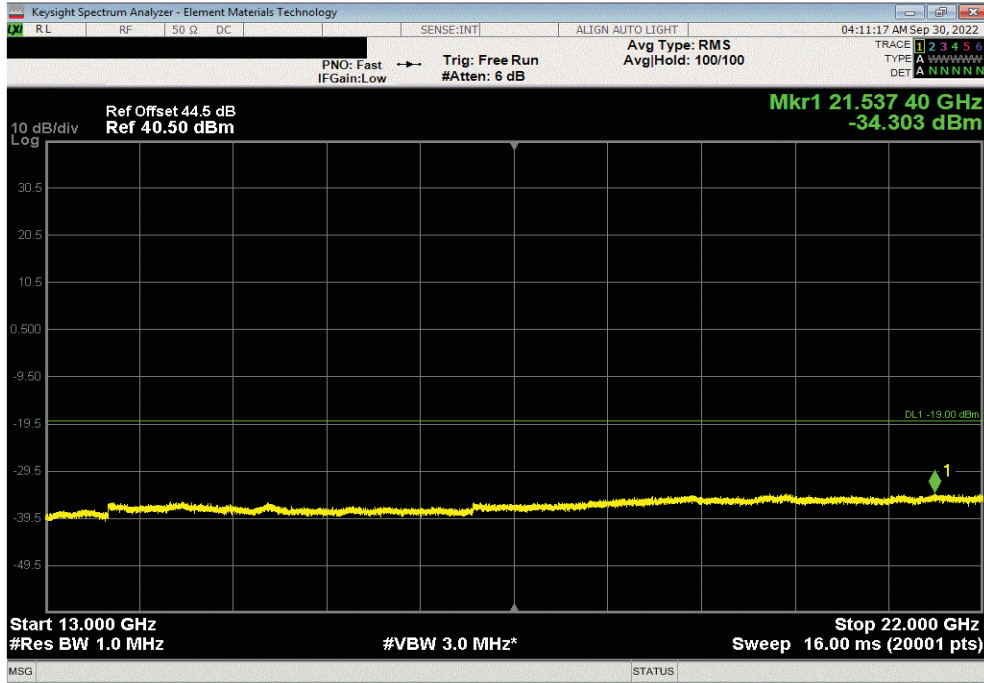


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

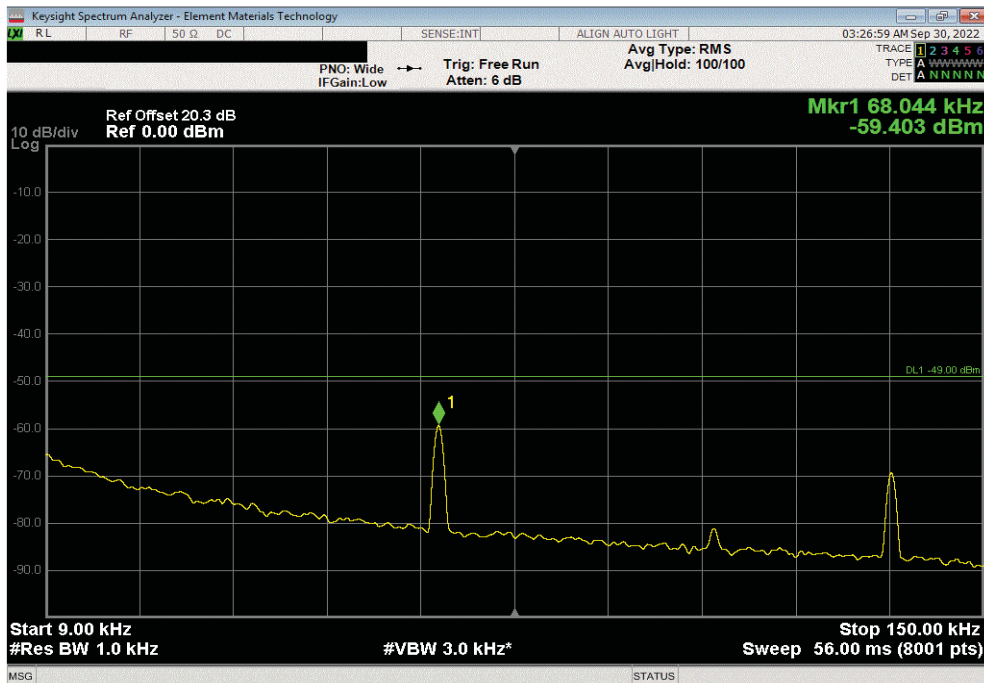


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 64QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21537.4	-34.3	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-59.4	-49	Pass

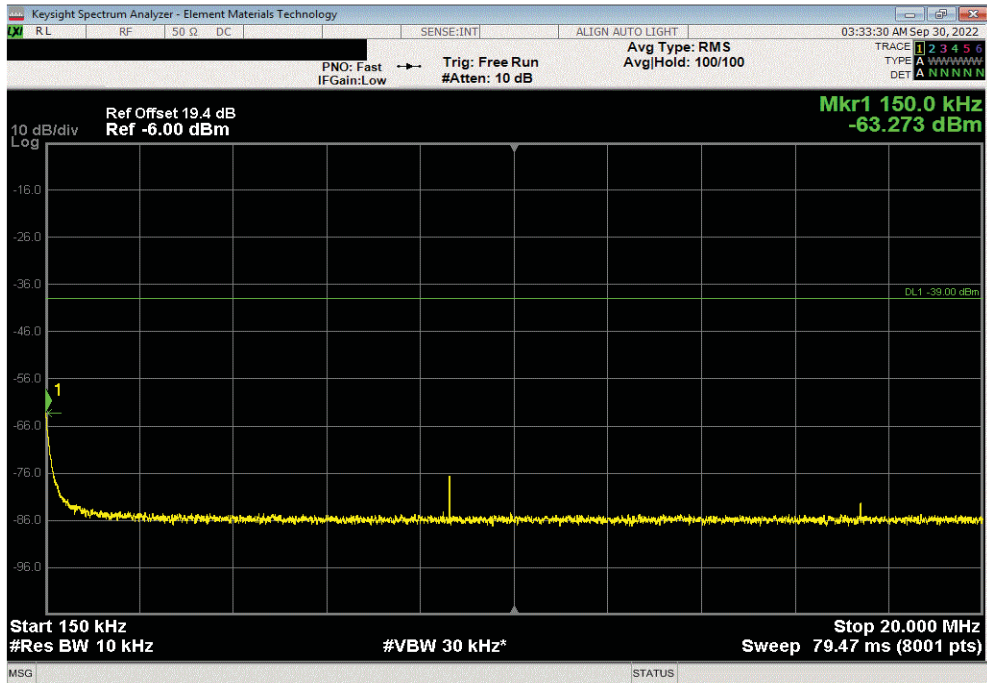


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

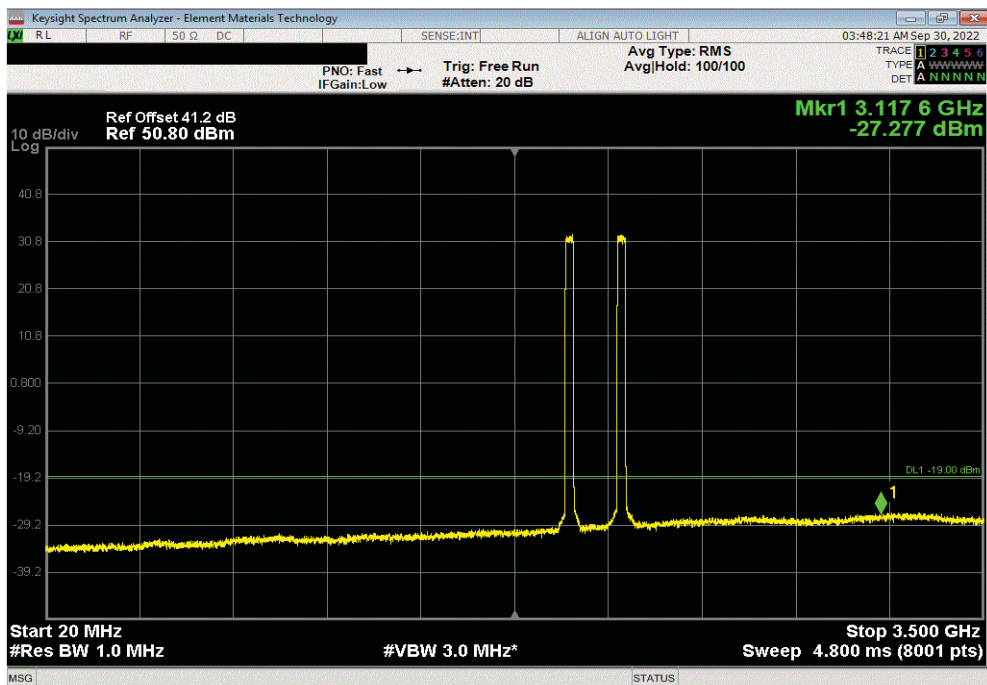


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	0.15	-63.27	-39	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3117.64	-27.28	-19	Pass

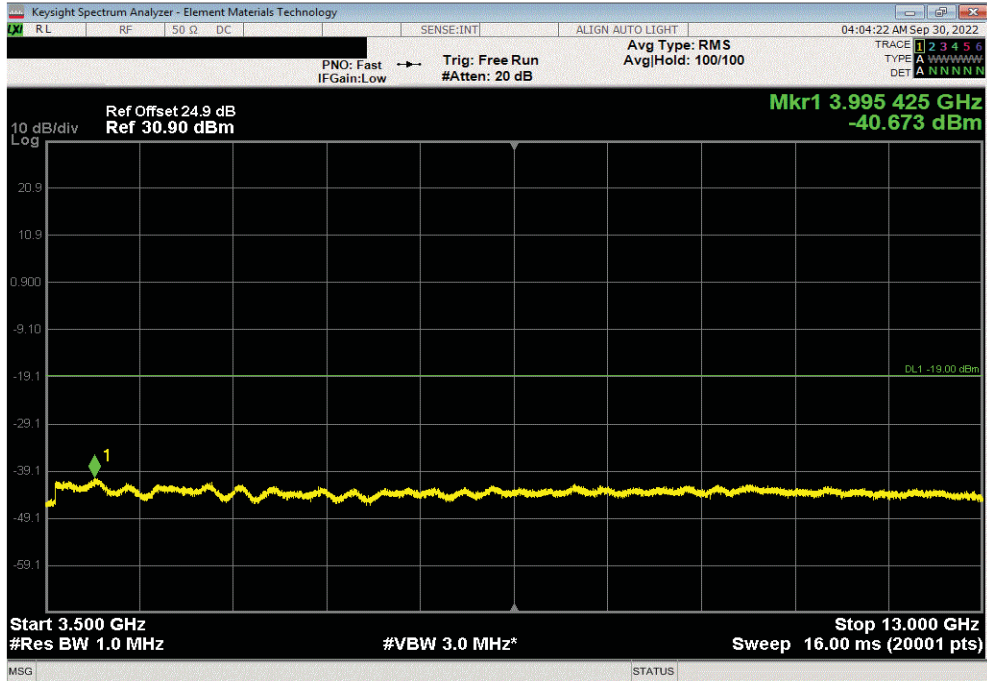


# SPURIOUS CONDUCTED EMISSIONS - BAND n66

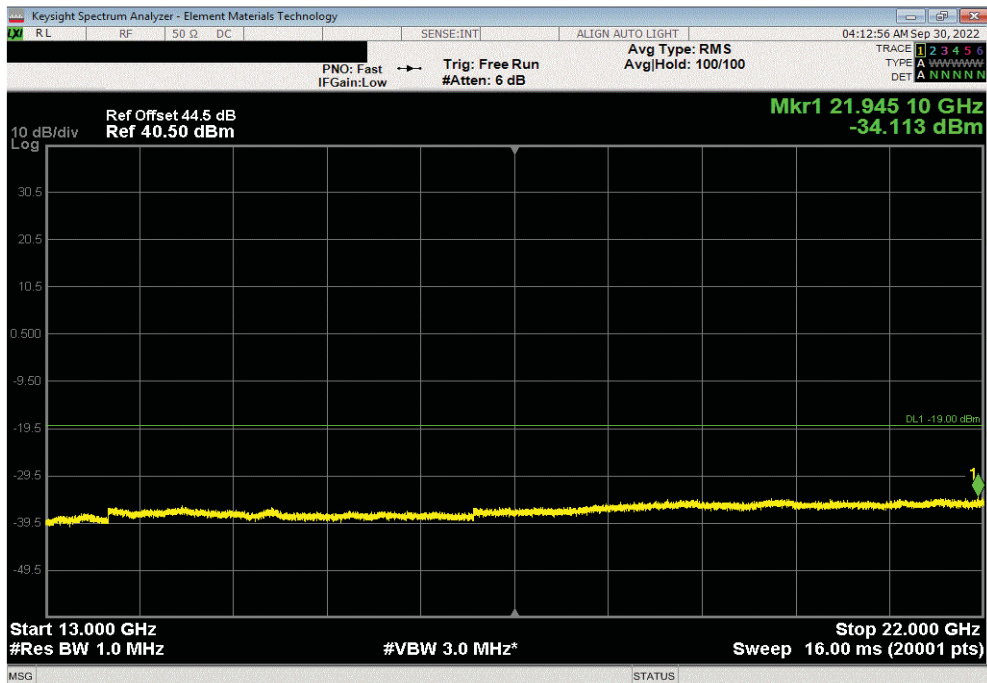


TbTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	3995.43	-40.67	-19	Pass



Port 1, NR, Band n25, 1930 - 1995 MHz, 30 MHz, 256QAM, Mid Channel, 1962.5 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21945.1	-34.11	-19	Pass



# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



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
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## 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 22 GHz. The peak 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 KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

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

Per section FCC 24.238(a), RSS-133 6.5 (ii), FCC 27.53 (h) (1), RSS-139 5.6, the power of any emission outside of the Authorized operating frequency range cannot exceed -13sBm for a 1 MHz measurement bandwidth. The limit is adjusted To -19dBm [-13 dBm -10log (4)] per FCC KDB 662911D01v02r01 because the BTS may operate as a 4 port MIMO.

RF conducted emissions testing was performed on one port. The AHFIB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in original certification report) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -49dBm = -19dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -39dBm = -19dBm -10log(1MHz/10kHz)]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



EUT: AHFIB		Work Order: NOKI0049	
Serial Number: K9181401111		Date: 30-Sep-22	
Customer: Nokia of America Corporation		Temperature: 21.9 °C	
Attendees: John Rattanavong		Humidity: 48% RH	
Project: None		Barometric Pres.: 1012 mbar	
Tested by: Marty Martin		Power: 54 VDC	
TEST SPECIFICATIONS		Test Method	
FCC 27.2022 and FCC Part 24.2022		ANSI C63.26:2015	
RSS-133 Issue 6: 2013+A12018		RSS-133 Issue 6: 2013+A12018	
RSS-139 Issue 4: 2022		RSS-139 Issue 4: 2022	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. Multi carrier test case 1 and 2: The carriers are operated at maximum power (~20W/PCS carrier and 40W/AWS carrier) with a total port power of 80 watts. Multi carrier test case 3 and 4: The carriers are operated at maximum power (~20W/AWS carrier and 40W/PCS carrier) with a total port power of 80 watts. Multi carrier test case 5: The carriers are operated at maximum power (~13.3W/AWS carrier and ~13.3W/PCS carrier) with a total port power of 80 watts.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1, 2, 3, 4	Signature	<i>Marty Martin</i>

Port: 1, NR, PCS Band and AWS Band, MultiCarrier	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
256QAM					
Middle Side					
MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	9 kHz - 150 kHz	0.07	-56.18	-49	Pass
MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	150 kHz - 20 MHz	8.71	-57.46	-39	Pass
MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	20 MHz - 3.5 GHz	3205.76	-27.1	-19	Pass
MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	3.5 GHz - 13 GHz	4031.05	-40.63	-19	Pass
MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	13 GHz - 22 GHz	21555.85	-34.17	-19	Pass
MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	9 kHz - 150 kHz	0.07	-51.67	-49	Pass
MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	150 kHz - 20 MHz	8.7	-57.77	-39	Pass
MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	20 MHz - 3.5 GHz	3200	-27.72	-19	Pass
MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	3.5 GHz - 13 GHz	4000.18	-40.7	-19	Pass
MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)	13 GHz - 22 GHz	21546.4	-34.36	-19	Pass
MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)	9 kHz - 150 kHz	0.07	-51.51	-49	Pass
MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)	150 kHz - 20 MHz	8.7	-56.89	-39	Pass
MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)	20 MHz - 3.5 GHz	3142.13	-27.11	-19	Pass
MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)	3.5 GHz - 13 GHz	4011.1	-40.5	-19	Pass
MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)	13 GHz - 22 GHz	21624.7	-33.81	-19	Pass
MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)	9 kHz - 150 kHz	0.07	-54.7	-49	Pass
MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)	150 kHz - 20 MHz	8.71	-60.42	-39	Pass
MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)	20 MHz - 3.5 GHz	3226.95	-27.49	-19	Pass
MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)	3.5 GHz - 13 GHz	3993.53	-40.72	-19	Pass
MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)	13 GHz - 22 GHz	21734.95	-34.06	-19	Pass
MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)	9 kHz - 150 kHz	0.07	-54.55	-49	Pass
MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)	150 kHz - 20 MHz	8.7	-59.83	-39	Pass
MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)	20 MHz - 3.5 GHz	3198.24	-27.2	-19	Pass
MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)	3.5 GHz - 13 GHz	4028.2	-40.69	-19	Pass
MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)	13 GHz - 22 GHz	21598.15	-34.33	-19	Pass



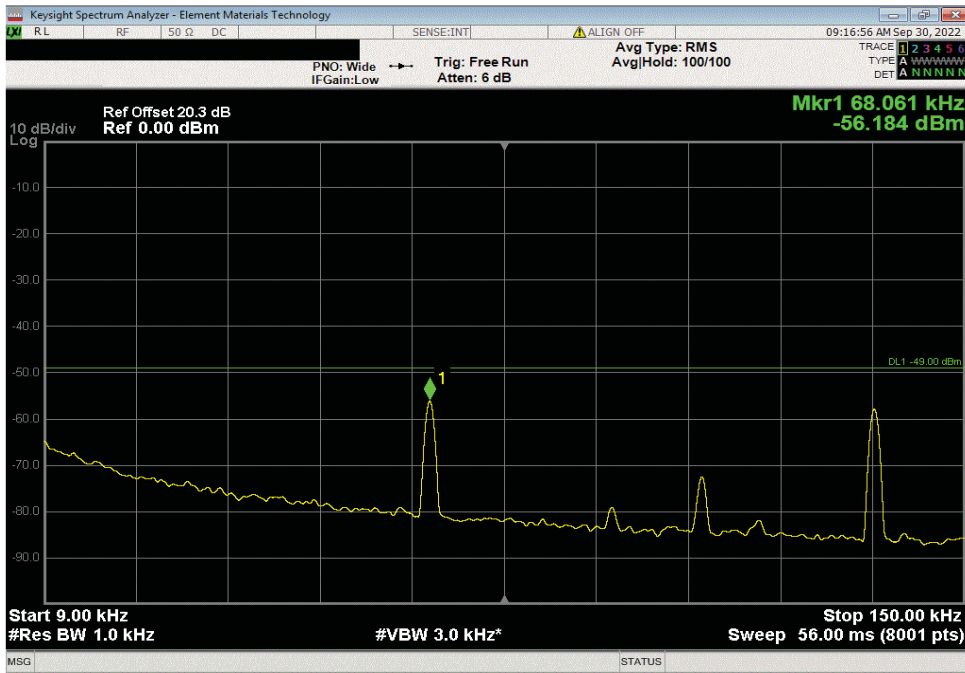
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

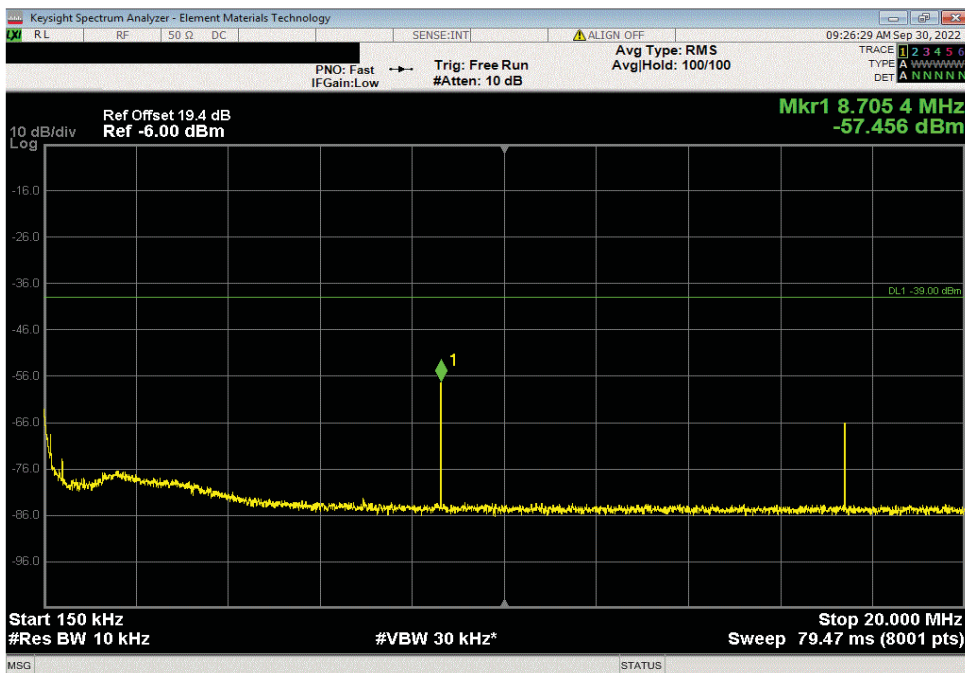
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-56.18	-49	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	8.71	-57.46	-39	Pass



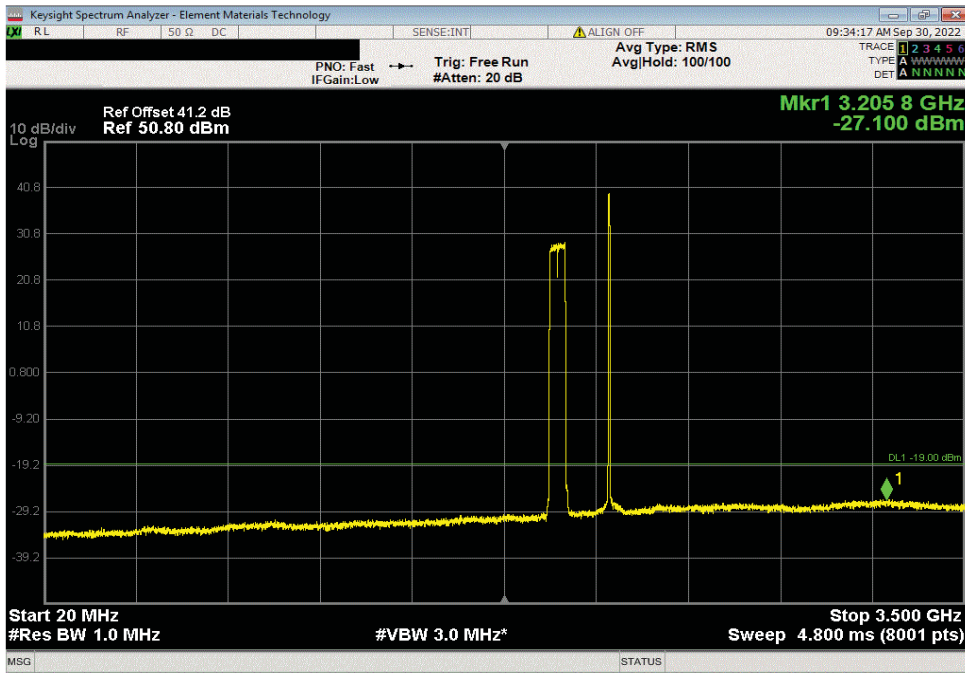
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

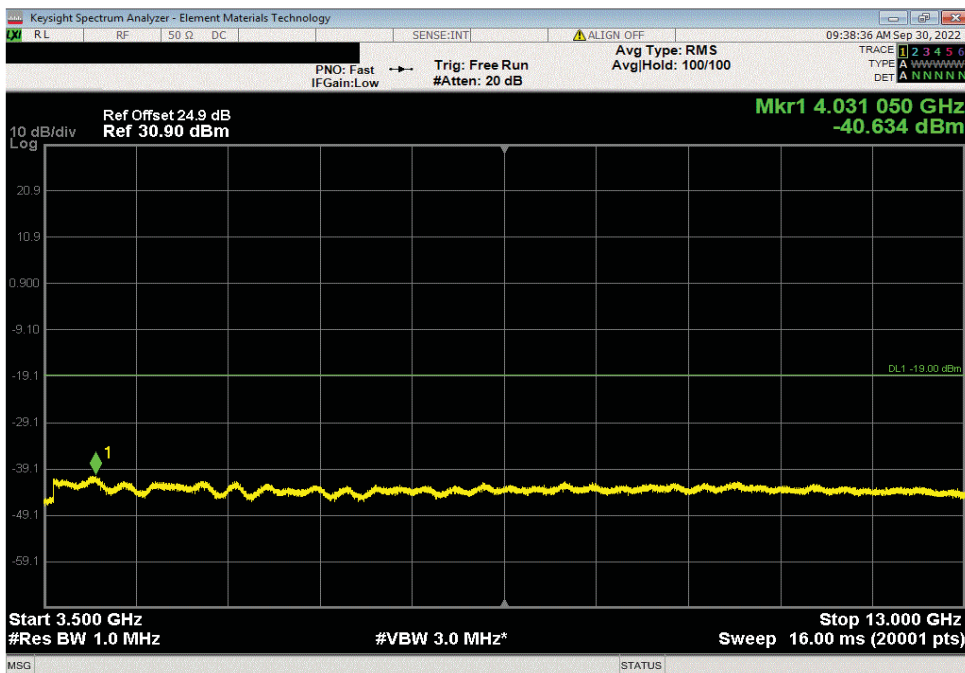
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3205.76	-27.1	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 1, PCS Band 20W 30 MHz BW (1945.0 and 1975.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4031.05	-40.63	-19	Pass

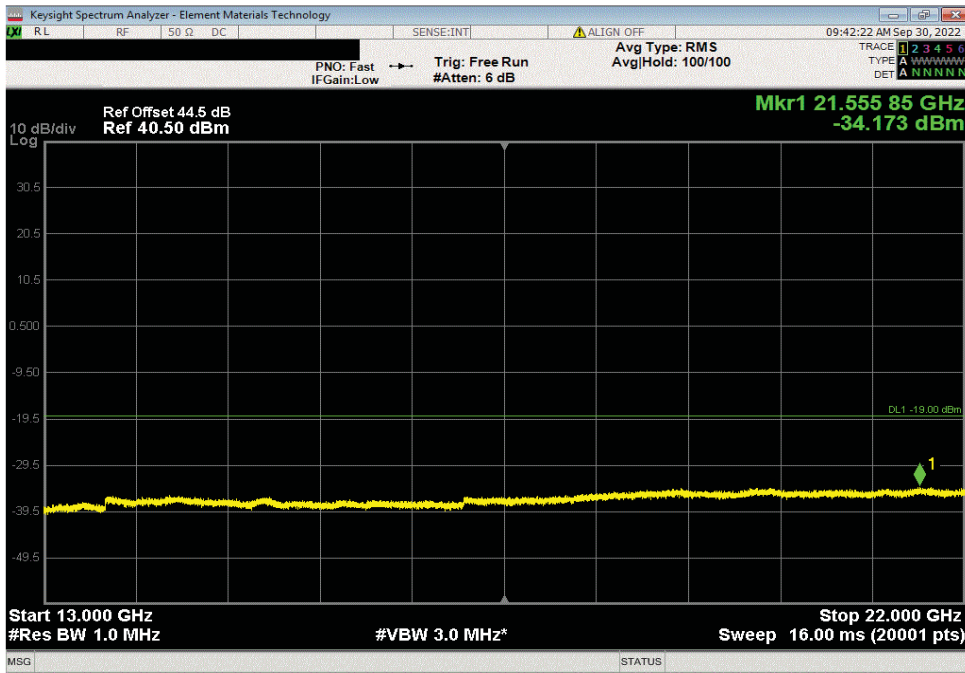


# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER

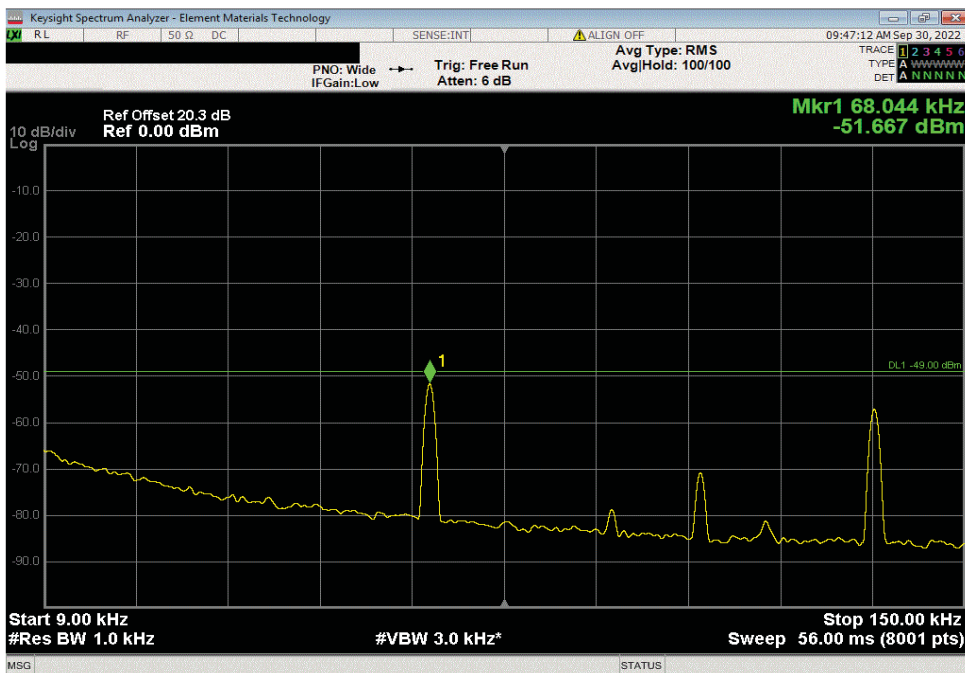


TbtTs 2022.06.03.0 XMI 2022.02.07.0

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21555.85	-34.17	-19	Pass



Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-51.67	-49	Pass



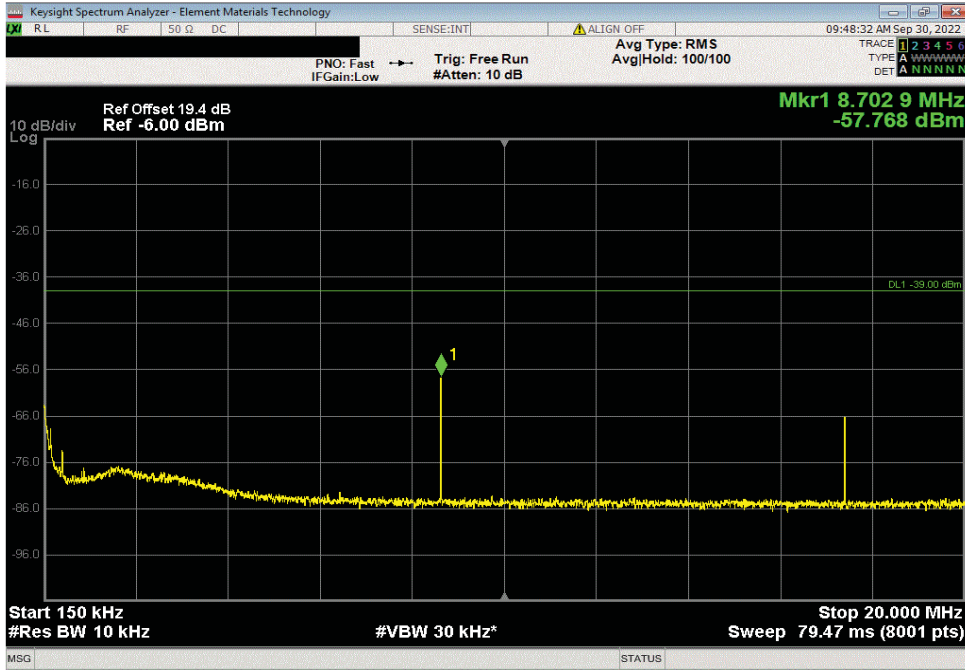
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TotTx 2022.06.03.0 XMit 2022.02.07.0

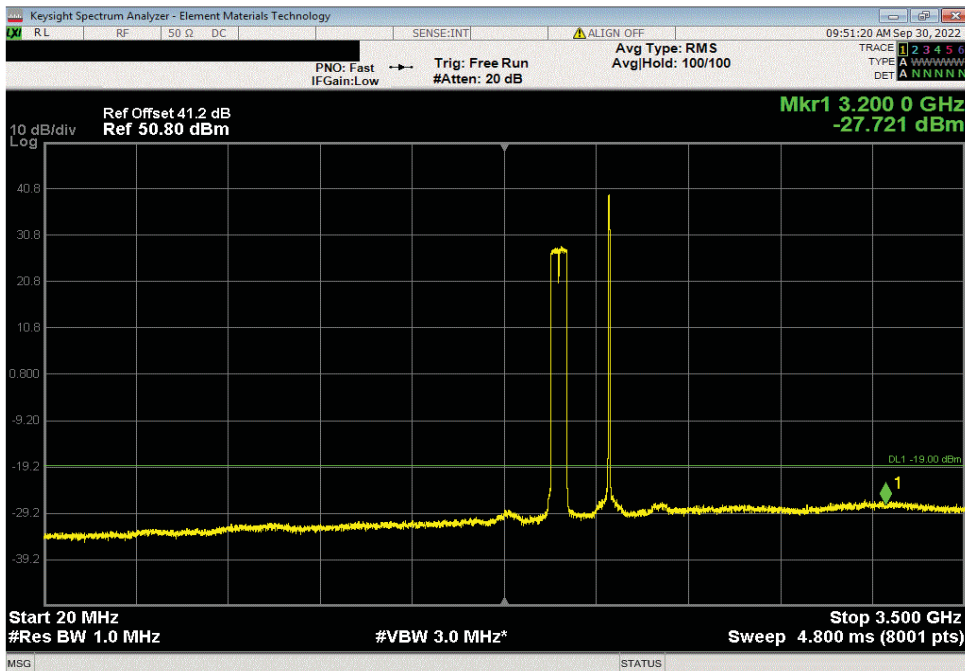
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	8.7	-57.77	-39	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3200	-27.72	-19	Pass



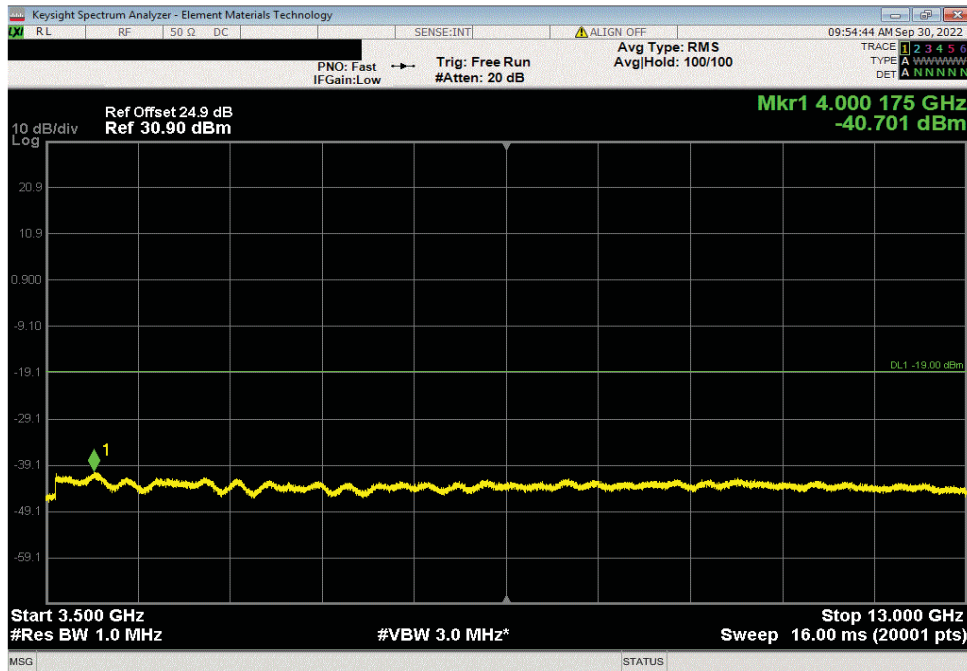
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

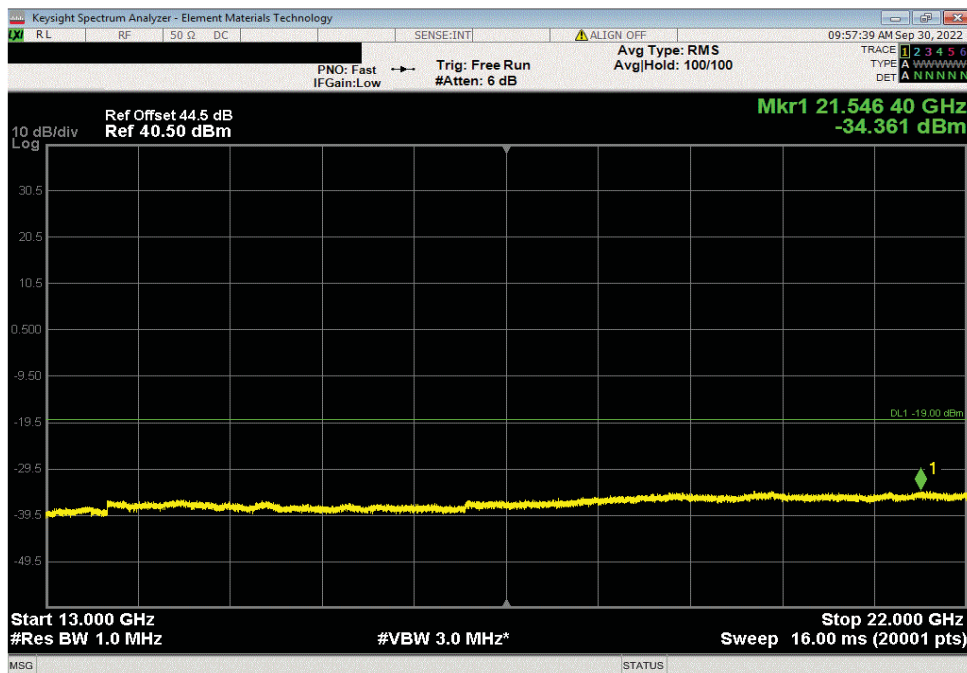
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4000.18	-40.7	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 2, PCS Band 20W 30 MHz BW (1950.0 and 1980.0 MHz), AWS Band 40W 5 MHz BW (2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21546.4	-34.36	-19	Pass





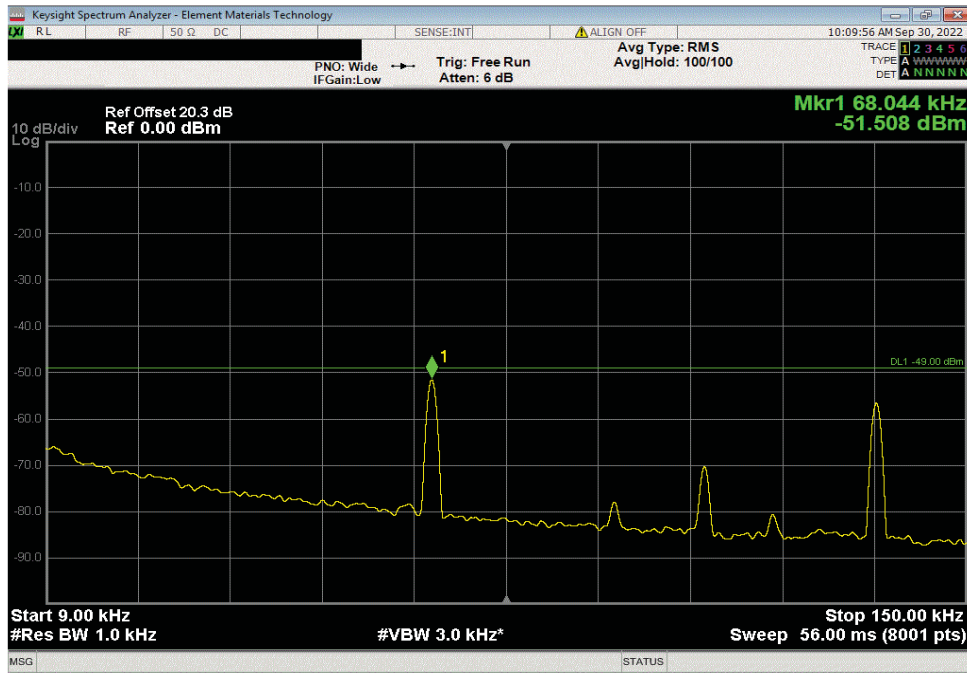
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

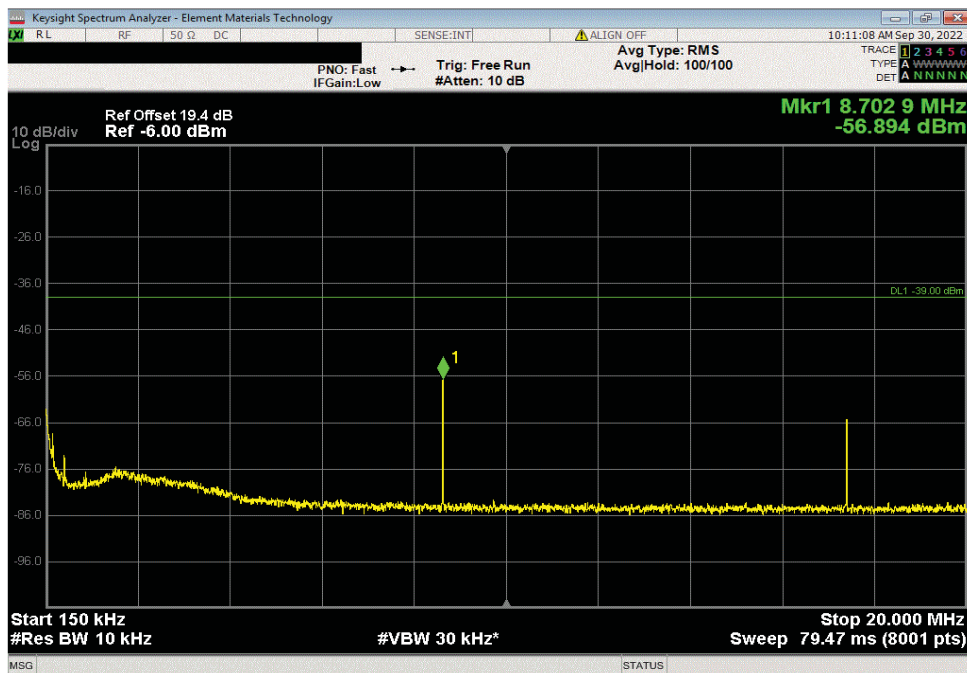
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-51.51	-49	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	8.7	-56.89	-39	Pass



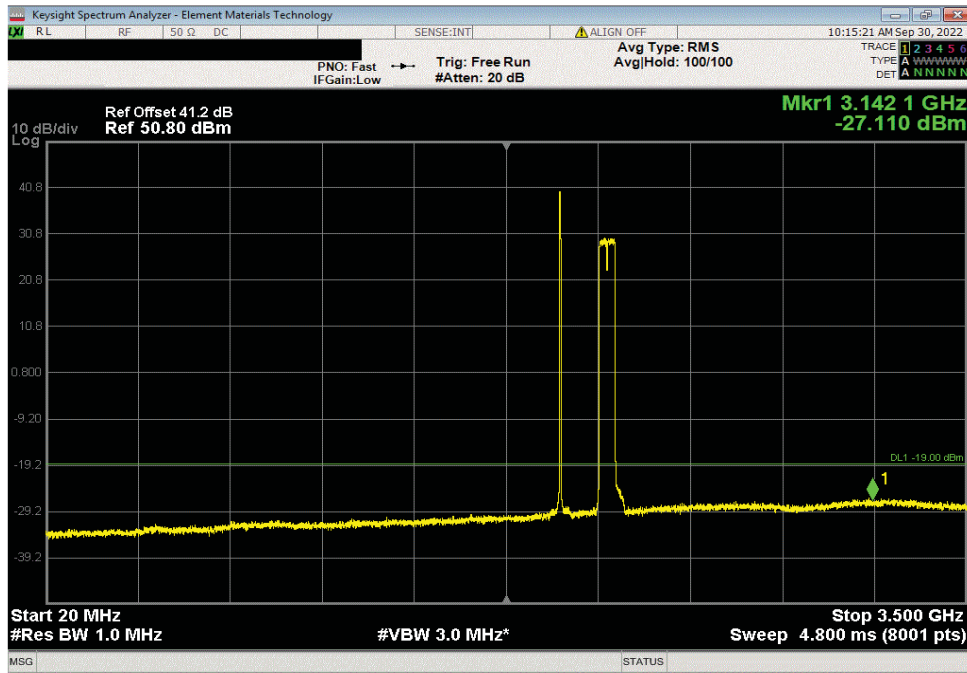
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

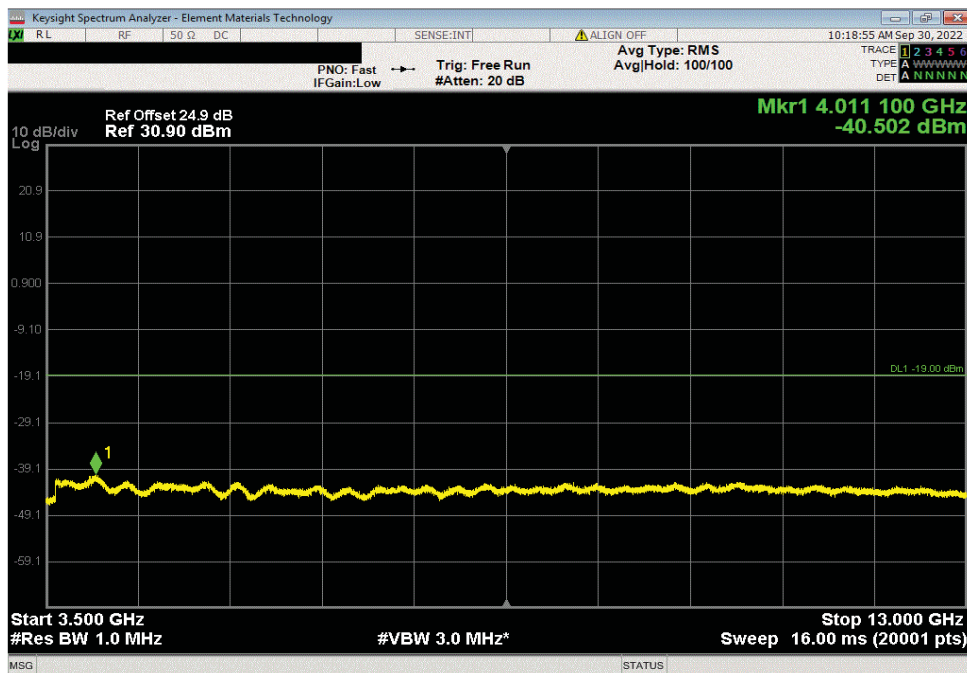
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3142.13	-27.11	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4011.1	-40.5	-19	Pass



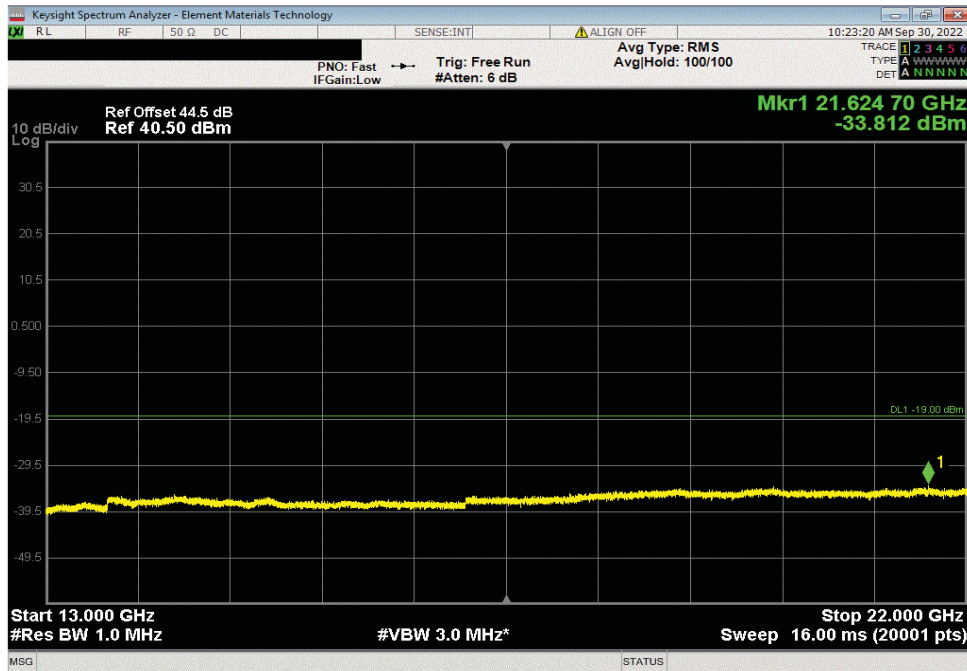
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 3, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2125.0 and 2155.0 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21624.7	-33.81	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-54.7	-49	Pass



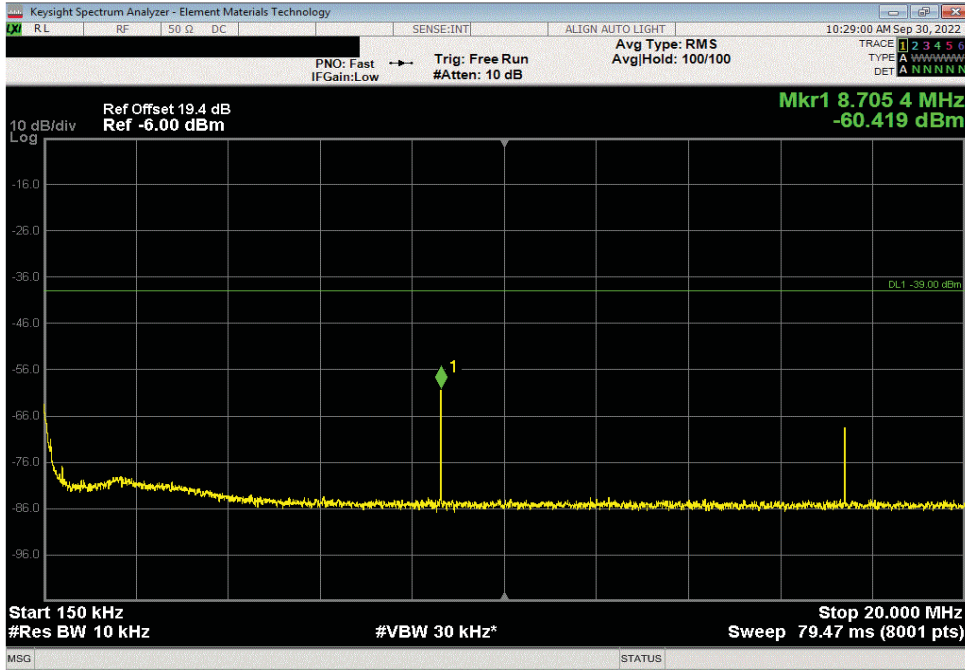
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

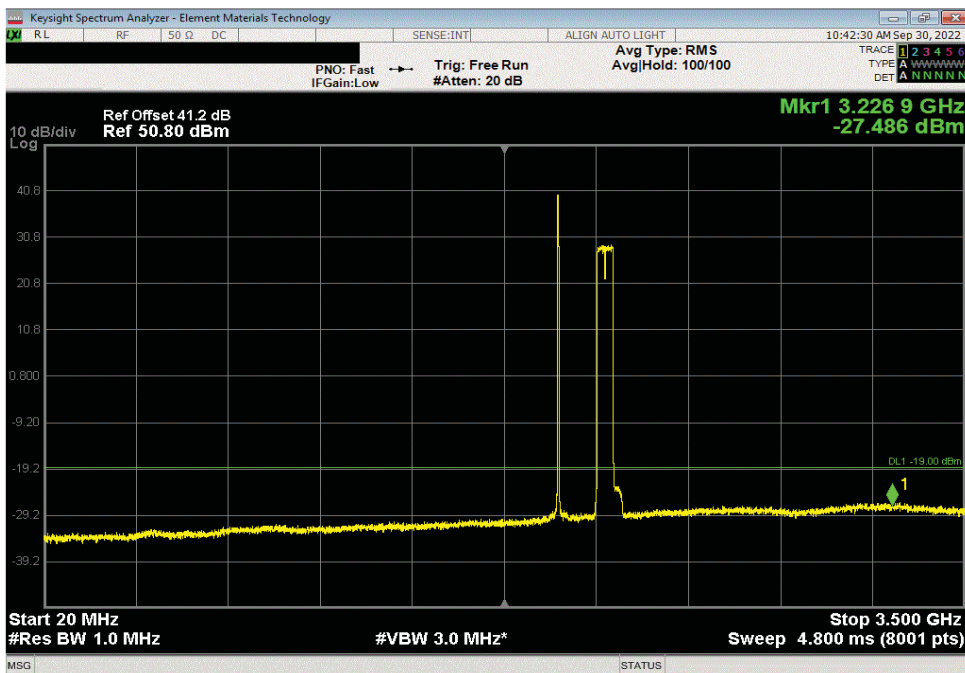
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	8.71	-60.42	-39	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3226.95	-27.49	-19	Pass



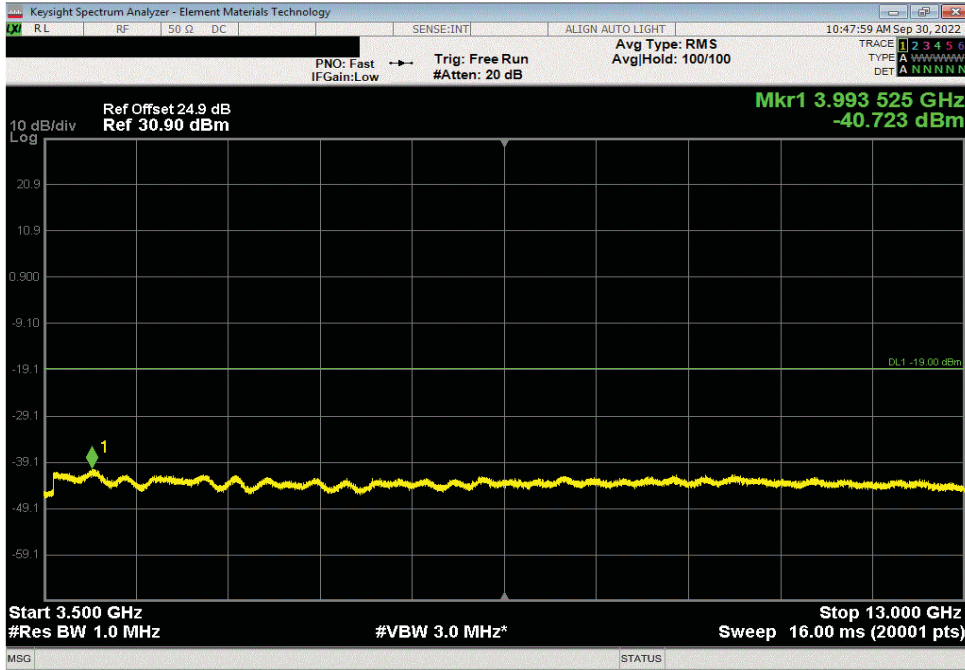
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

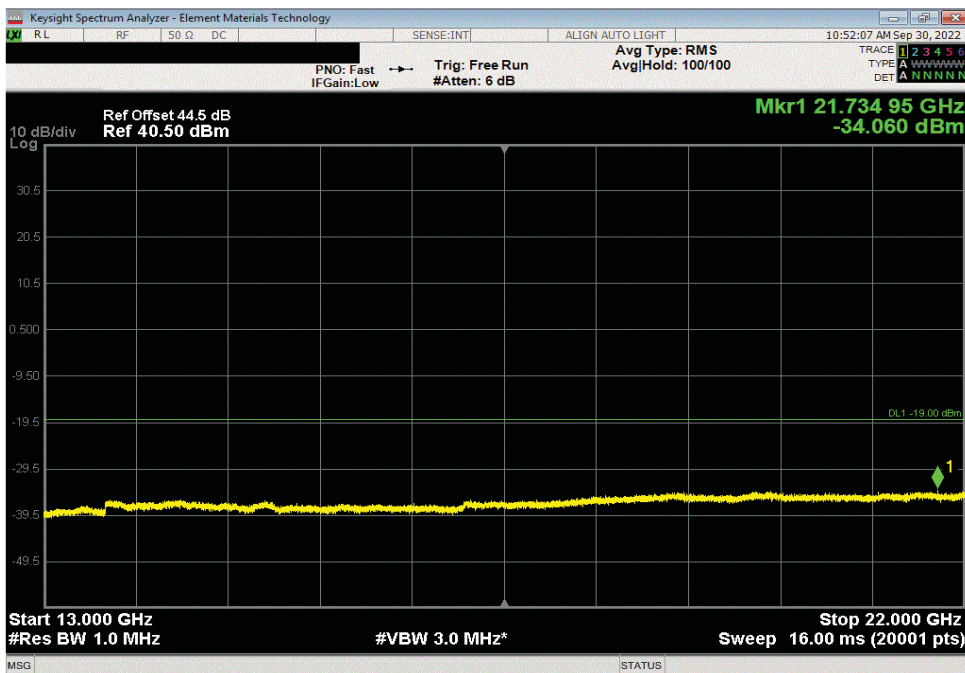
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	3993.53	-40.72	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 4, PCS Band 40W 5 MHz BW (1962.5 MHz), AWS Band 20W 30 MHz BW (2155.0 and 2185 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21734.95	-34.06	-19	Pass





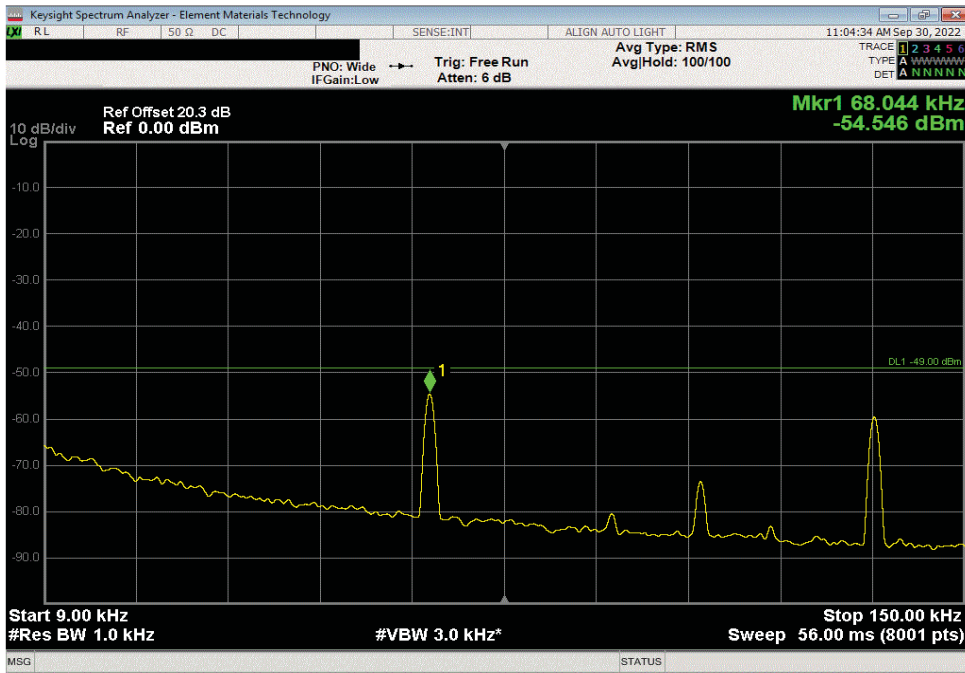
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbtTs 2022.06.03.0 XMI 2022.02.07.0

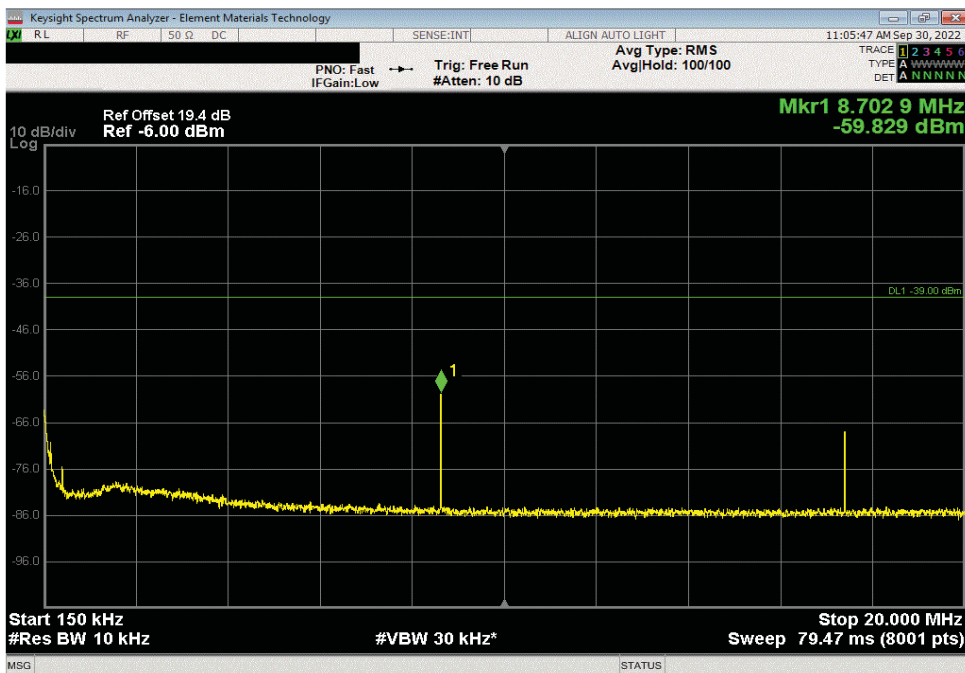
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz	0.07	-54.55	-49	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz	8.7	-59.83	-39	Pass



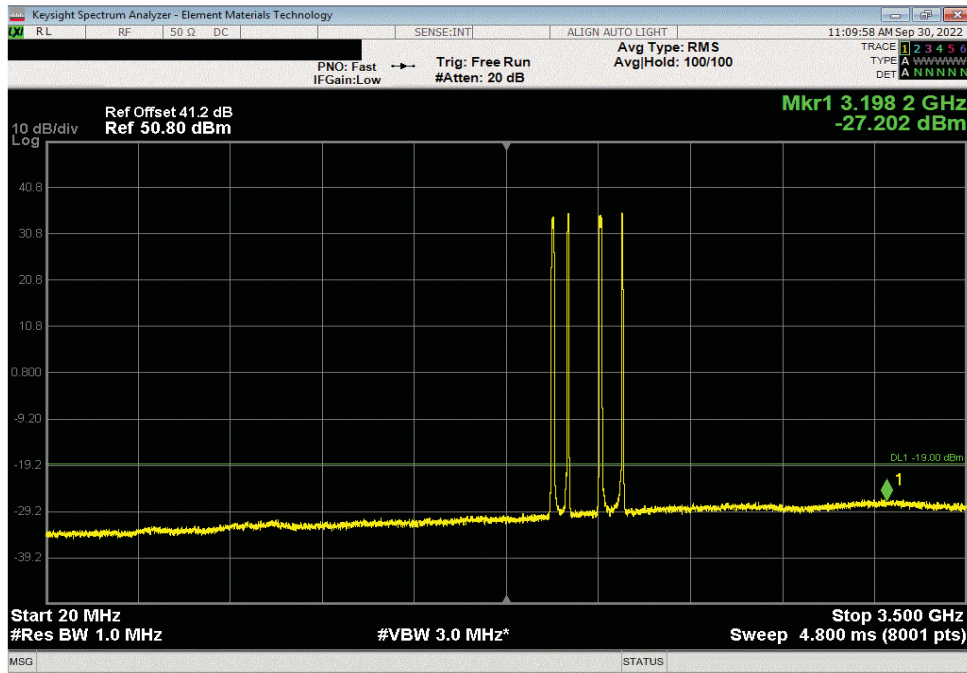
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TbTxs 2022.06.03.0 XMI 2022.02.07.0

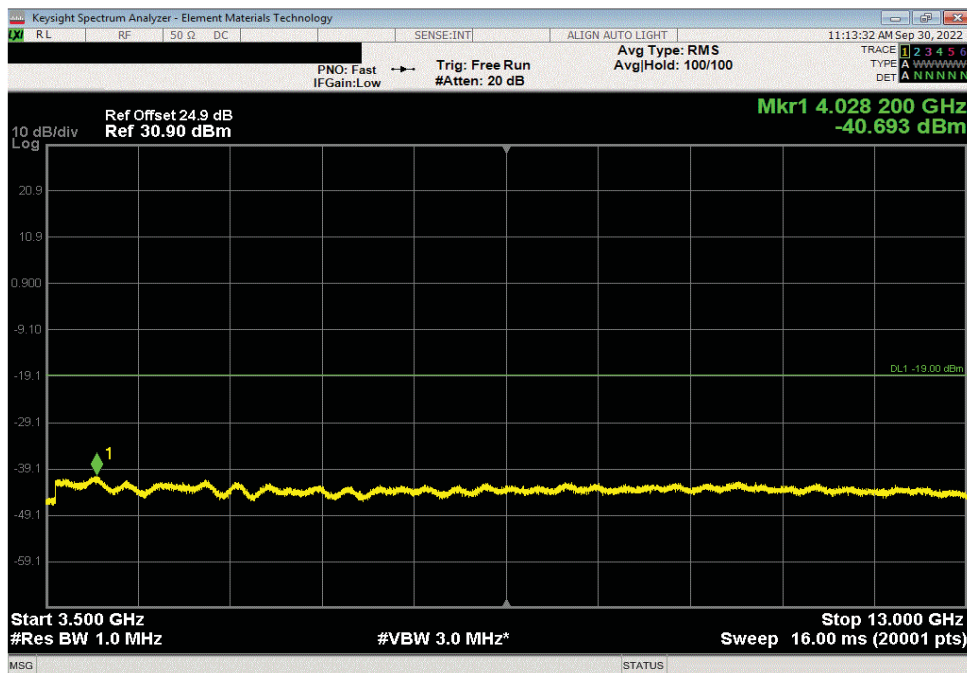
Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
20 MHz - 3.5 GHz	3198.24	-27.2	-19	Pass



Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
3.5 GHz - 13 GHz	4028.2	-40.69	-19	Pass



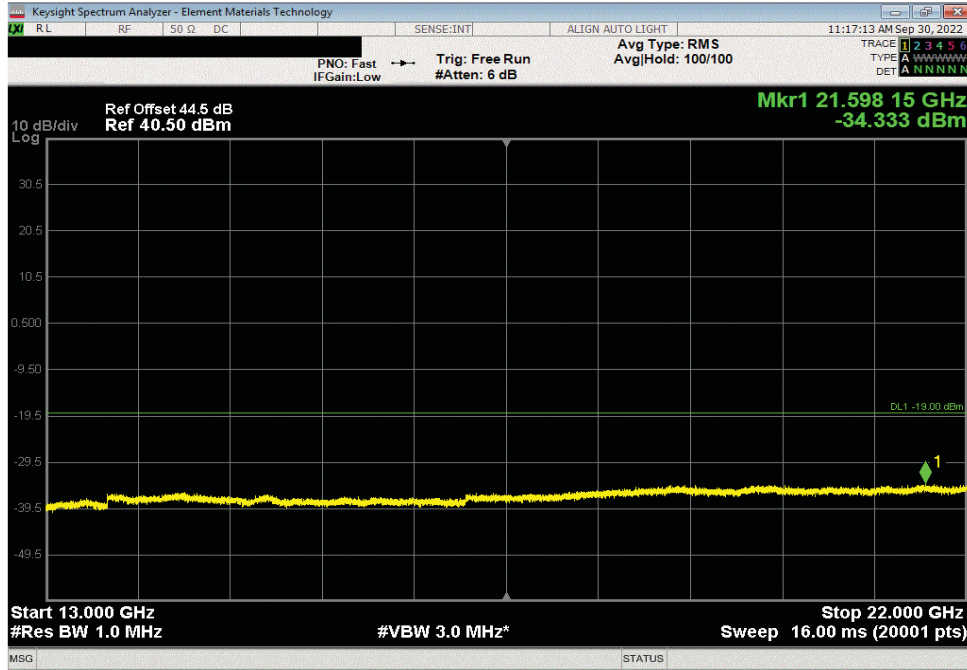
# SPURIOUS CONDUCTED EMISSIONS - MULTIBAND MULTICARRIER



TstTx 2022.06.03.0 XMI 2022.02.07.0

Port 1, NR, PCS Band and AWS Band, MultiCarrier, 256QAM, Middle Side, MultiCarrier Test Case 5, PCS Band 13.3W 5 MHz BW (1932.5, 1937.5 and 1992.5 MHz), AWS Band 13.3W 5 MHz BW (2112.5, 2117.5 and 2197.5 MHz)

Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
13 GHz - 22 GHz	21598.15	-34.33	-19	Pass



End of Test Report