

BAND EDGE COMPLIANCE



TSTs 2021.12.14.1 XMM 2022.02.07.0

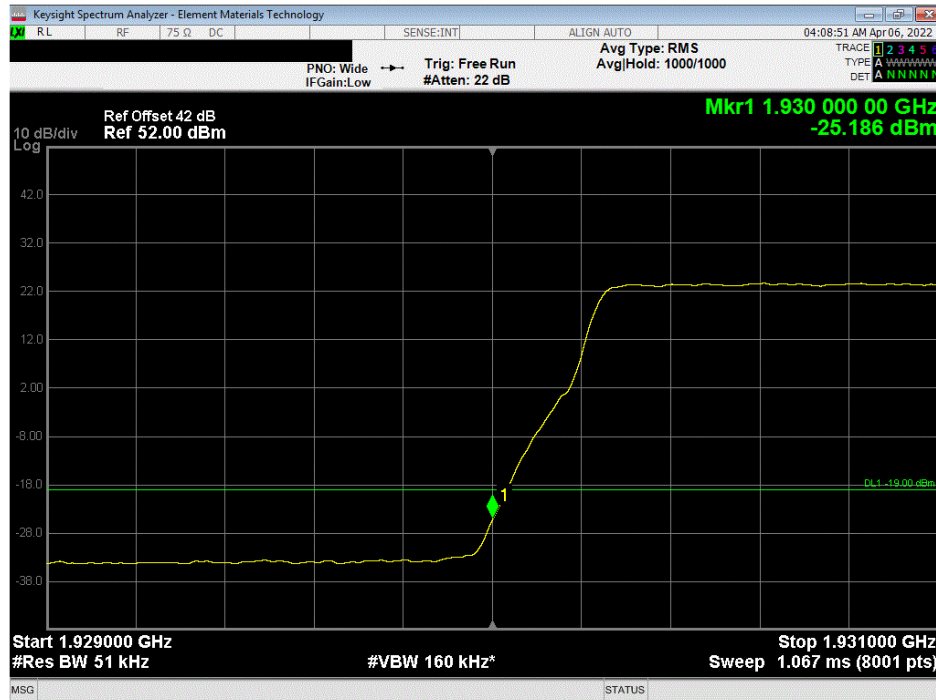
EUT: AHFI Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 6-Apr-22	
Customer: Nokia of America Corporation		Temperature: 22.6 °C	
Attendees: Mitchell Hill		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan		Job Site: TX09	
Power: 54 VDC			
TEST SPECIFICATIONS		Test Method	
FCC 24E:2022		ANSI C63.26:2015	
RSS-133 Issue 6:2013+A1:2018		RSS-133 Issue 6:2013+A1:2018	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. For Test Case 1: the carriers are operated at maximum power (~26.6W or ~44.2dBm/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier). For Test Case 2 and 3: the carriers are operated at maximum power (~40W/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance for Test Case 1.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		Frequency Range	Max Value (dBm) Limit < (dBm) Result
PCS Multicarrier Multiband			
Port 1			
Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier)			
QPSK Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.2 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-22.0 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-22.0 -19 Pass
	PCS Carrier 3, 1992.5 MHz	1	-24.7 -19 Pass
	PCS Carrier 3, 1992.5 MHz	2	-23.9 -19 Pass
	PCS Carrier 3, 1992.5 MHz	3	-22.9 -19 Pass
16-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-26.2 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-22.7 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-22.4 -19 Pass
	PCS Carrier 3, 1992.5 MHz	1	-24.7 -19 Pass
	PCS Carrier 3, 1992.5 MHz	2	-23.5 -19 Pass
	PCS Carrier 3, 1992.5 MHz	3	-22.9 -19 Pass
64-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-24.8 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-22.7 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-22.6 -19 Pass
	PCS Carrier 3, 1992.5 MHz	1	-24.1 -19 Pass
	PCS Carrier 3, 1992.5 MHz	2	-23.8 -19 Pass
	PCS Carrier 3, 1992.5 MHz	3	-22.8 -19 Pass
256-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-24.6 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-23.0 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-22.2 -19 Pass
	PCS Carrier 3, 1992.5 MHz	1	-24.9 -19 Pass
	PCS Carrier 3, 1992.5 MHz	2	-23.6 -19 Pass
	PCS Carrier 3, 1992.5 MHz	3	-22.9 -19 Pass
Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier)			
QPSK Modulation			
	PCS Carrier 1, 1945 MHz	1	-21.7 -19 Pass
	PCS Carrier 1, 1945 MHz	2	-20.4 -19 Pass
	PCS Carrier 1, 1945 MHz	3	-19.8 -19 Pass
16-QAM Modulation			
	PCS Carrier 1, 1945 MHz	1	-22.1 -19 Pass
	PCS Carrier 1, 1945 MHz	2	-20.4 -19 Pass
	PCS Carrier 1, 1945 MHz	3	-19.8 -19 Pass
64-QAM Modulation			
	PCS Carrier 1, 1945 MHz	1	-22.1 -19 Pass
	PCS Carrier 1, 1945 MHz	2	-20.3 -19 Pass
	PCS Carrier 1, 1945 MHz	3	-19.8 -19 Pass
256-QAM Modulation			
	PCS Carrier 1, 1945 MHz	1	-21.8 -19 Pass
	PCS Carrier 1, 1945 MHz	2	-19.8 -19 Pass
	PCS Carrier 1, 1945 MHz	3	-19.6 -19 Pass
Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier)			
QPSK Modulation			
	PCS Carrier 2, 1980 MHz	1	-22.6 -19 Pass
	PCS Carrier 2, 1980 MHz	2	-20.4 -19 Pass
	PCS Carrier 2, 1980 MHz	3	-19.6 -19 Pass
16-QAM Modulation			
	PCS Carrier 2, 1980 MHz	1	-23.3 -19 Pass
	PCS Carrier 2, 1980 MHz	2	-20.3 -19 Pass
	PCS Carrier 2, 1980 MHz	3	-19.9 -19 Pass
64-QAM Modulation			
	PCS Carrier 2, 1980 MHz	1	-22.6 -19 Pass
	PCS Carrier 2, 1980 MHz	2	-20.4 -19 Pass
	PCS Carrier 2, 1980 MHz	3	-19.6 -19 Pass
256-QAM Modulation			
	PCS Carrier 2, 1980 MHz	1	-21.2 -19 Pass
	PCS Carrier 2, 1980 MHz	2	-20.6 -19 Pass
	PCS Carrier 2, 1980 MHz	3	-20.1 -19 Pass

BAND EDGE COMPLIANCE

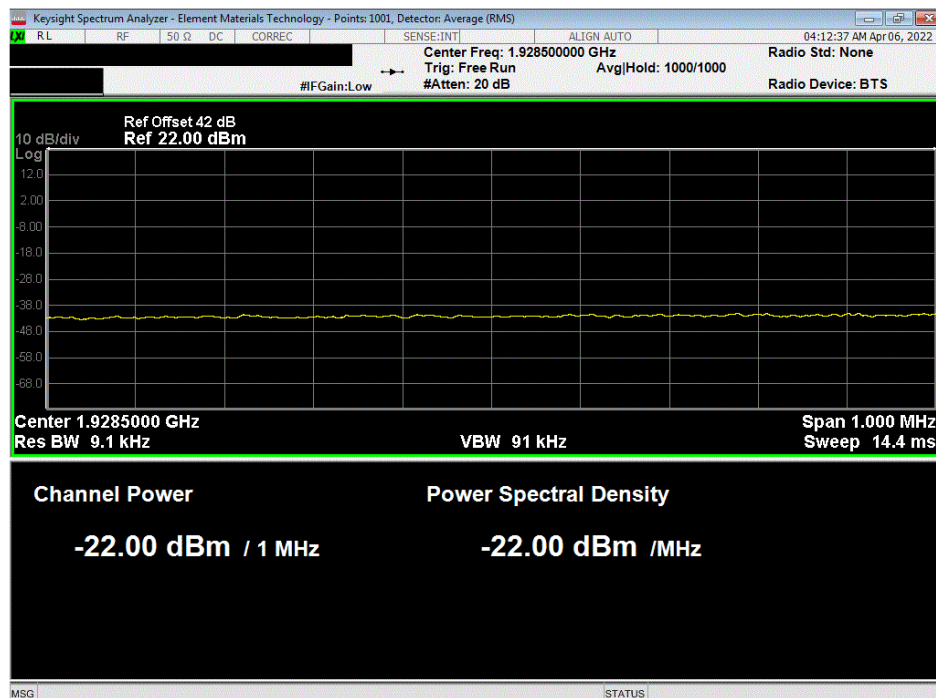


TMTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-25.19	-19	Pass		



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
2		-22.0	-19	Pass		

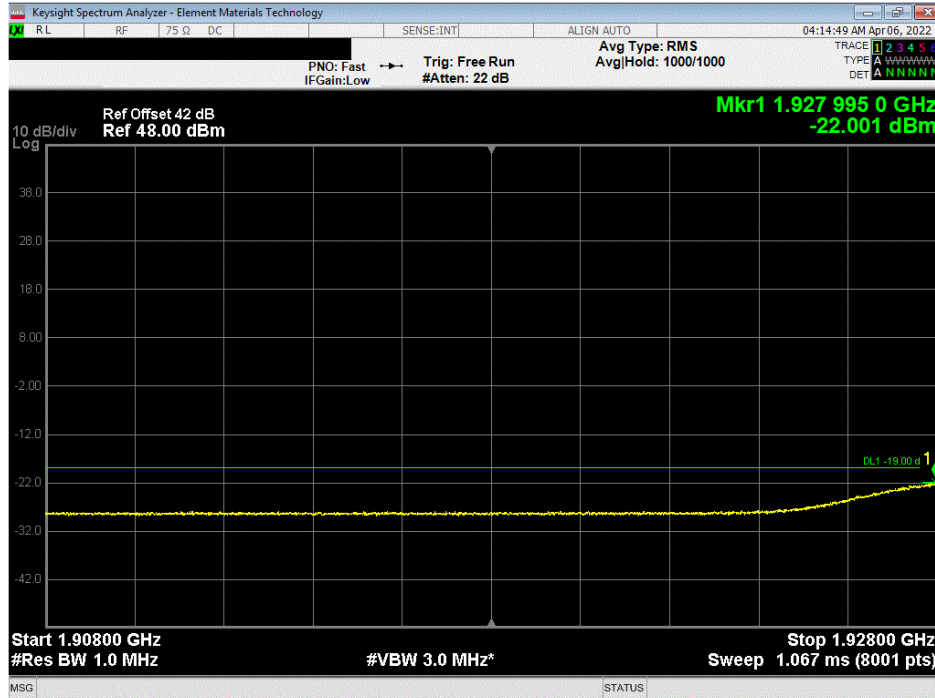


BAND EDGE COMPLIANCE

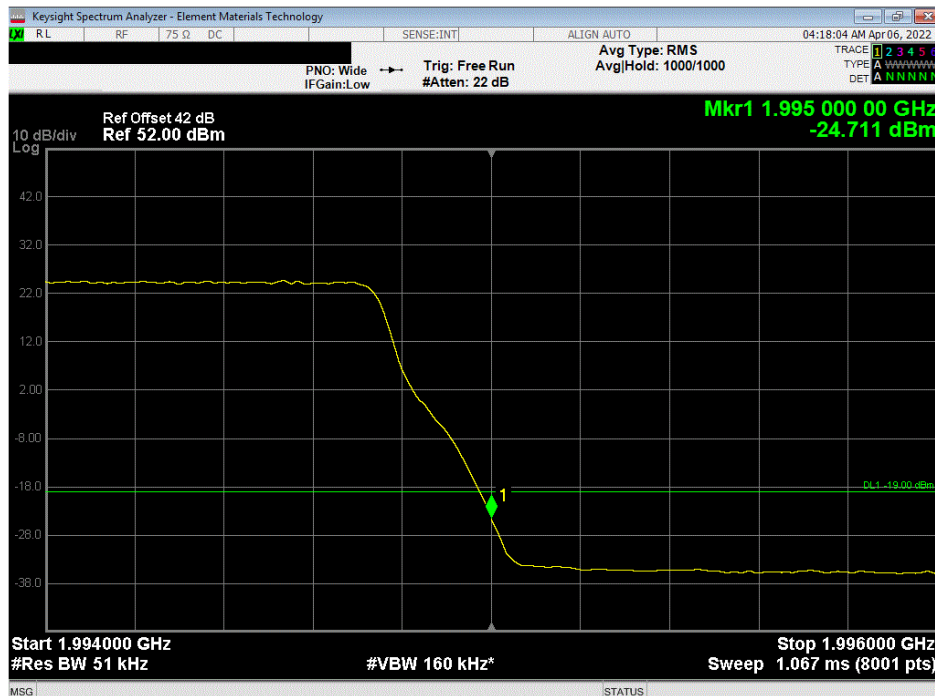


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.0	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.71	-19	Pass			

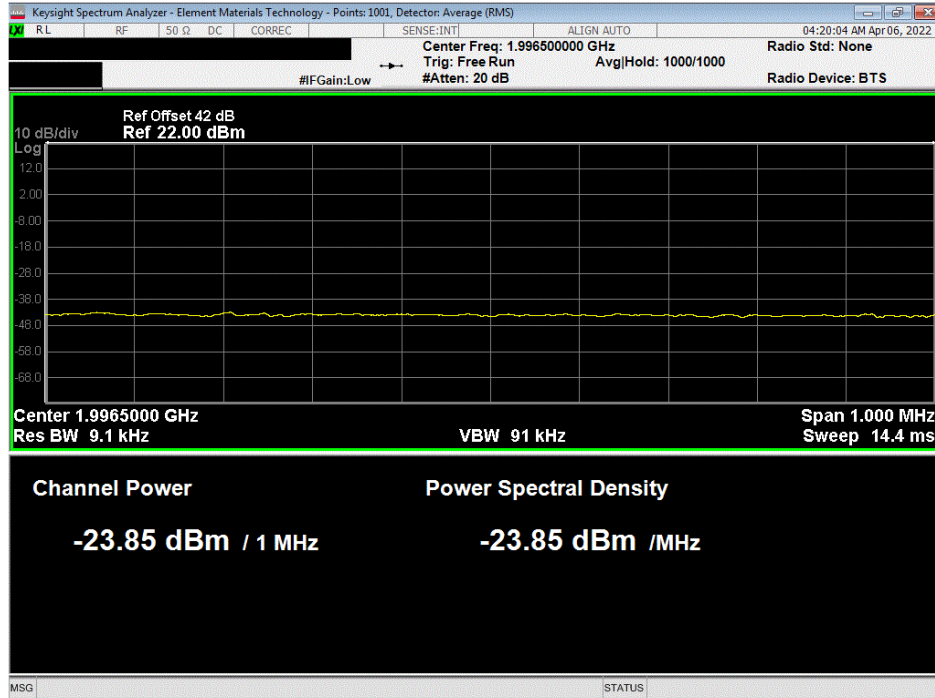


BAND EDGE COMPLIANCE

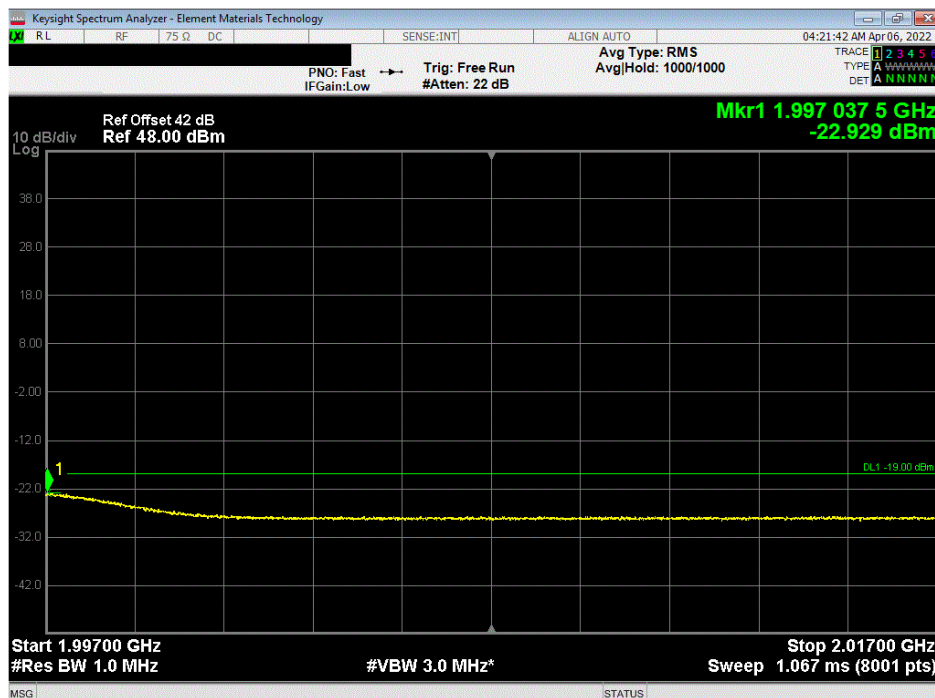


TbTx 2021.12.14.1 XMt 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-2.39E+01	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.93	-19	Pass			

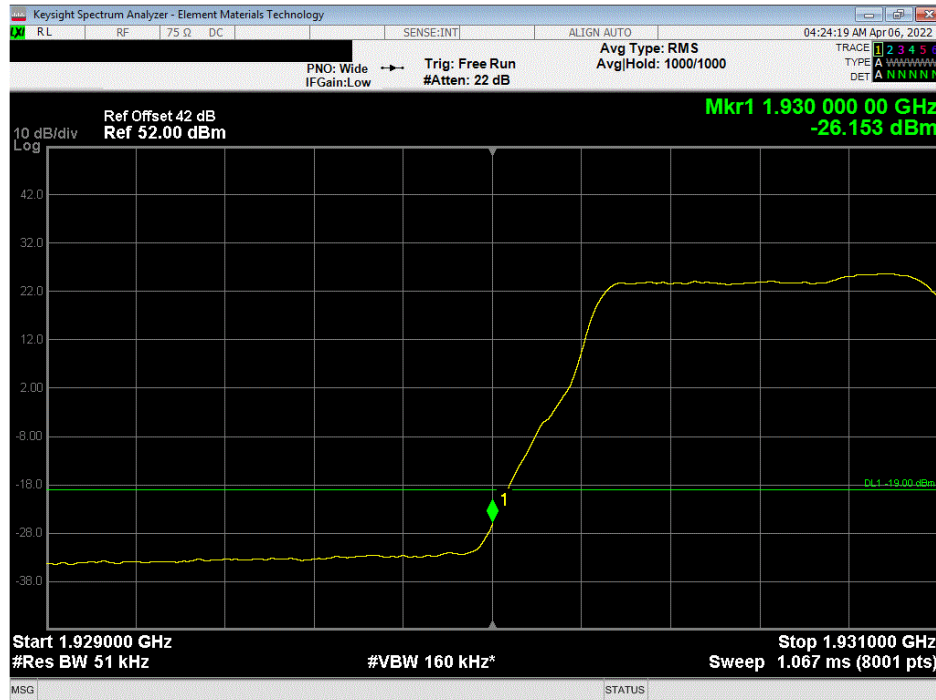


BAND EDGE COMPLIANCE

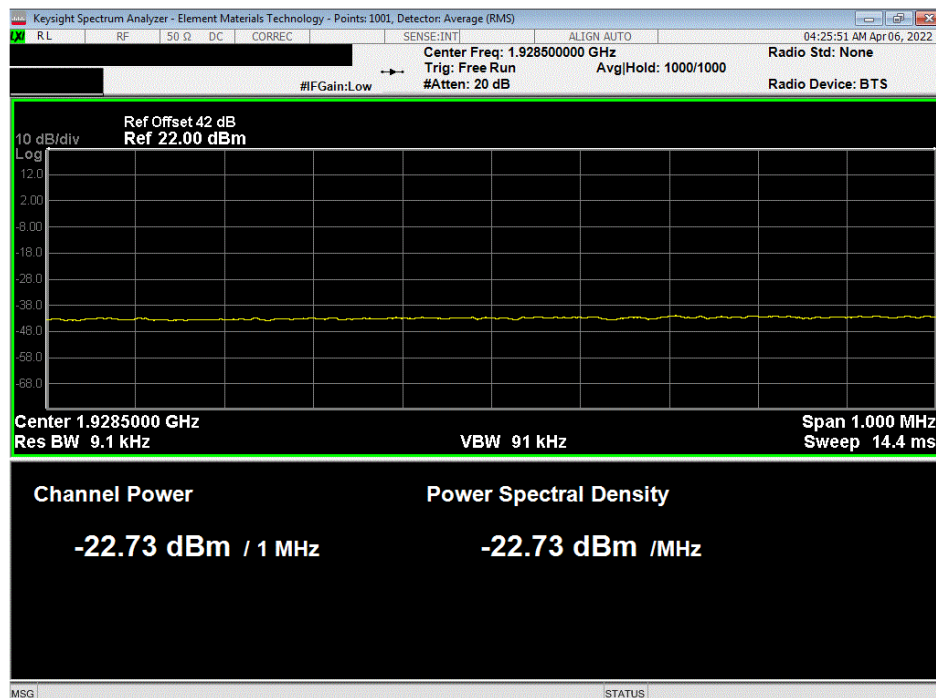


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.15	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.7	-19	Pass			

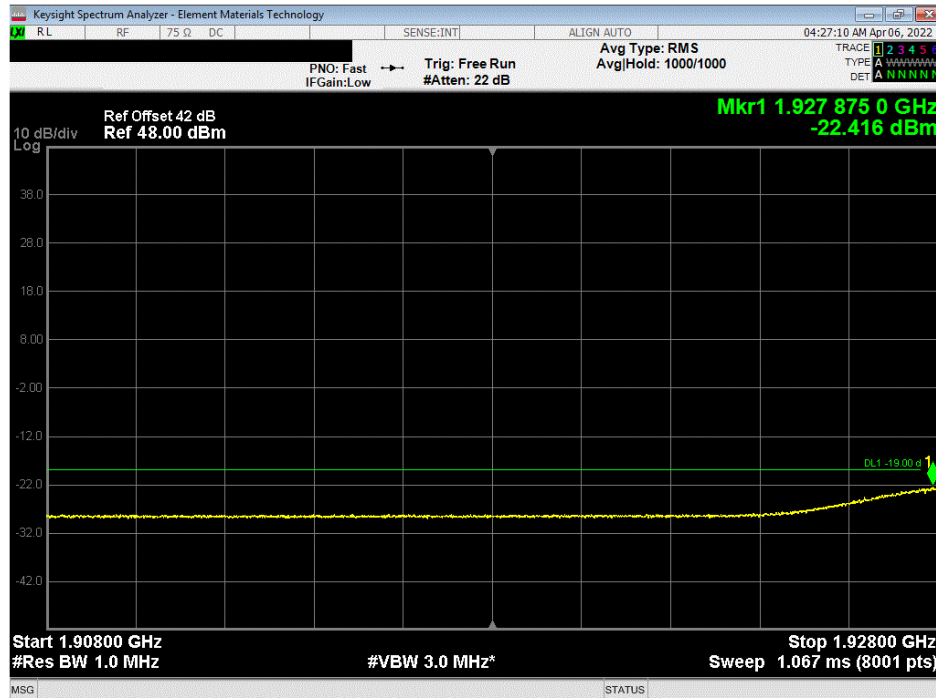


BAND EDGE COMPLIANCE

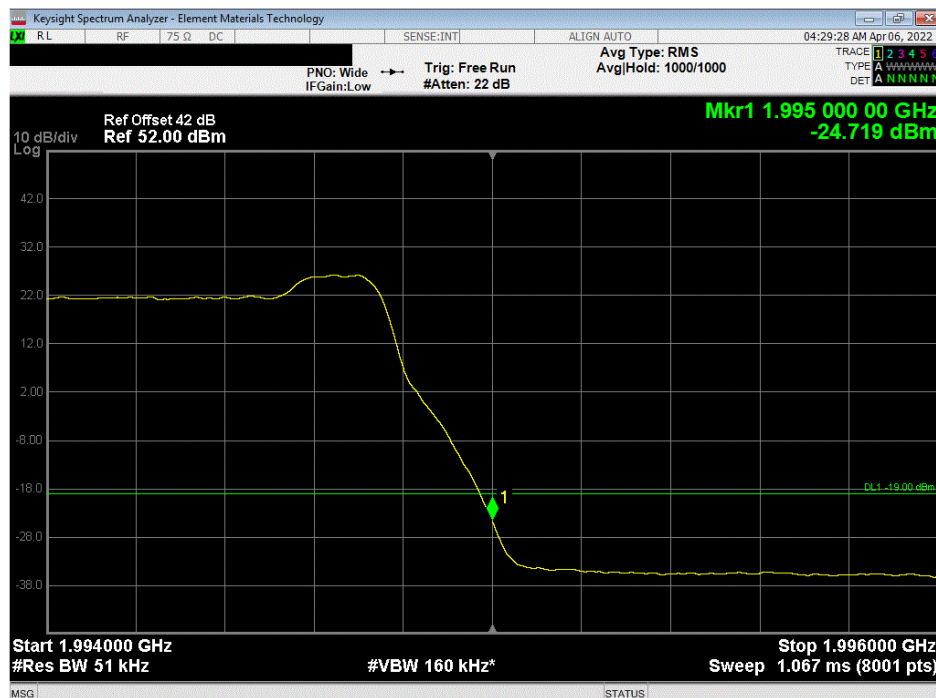


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.42	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.72	-19	Pass			

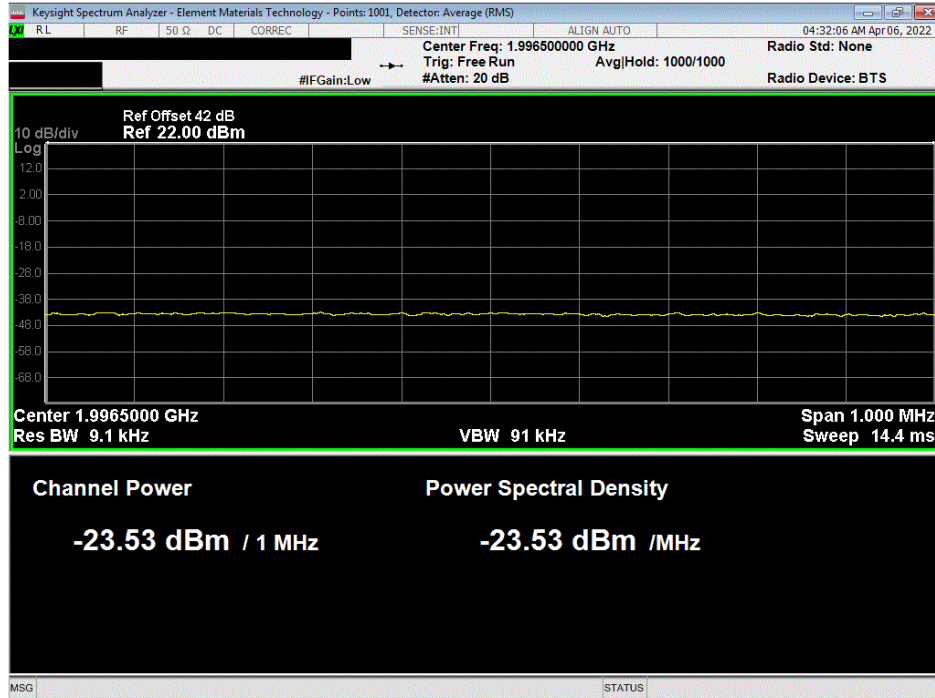


BAND EDGE COMPLIANCE

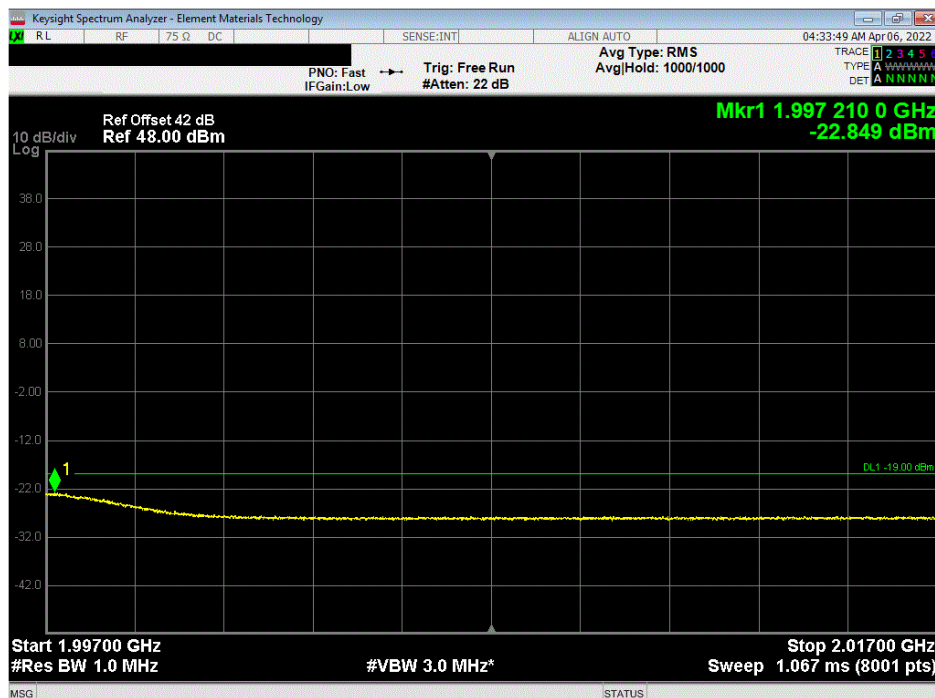


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.5	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.85	-19	Pass			

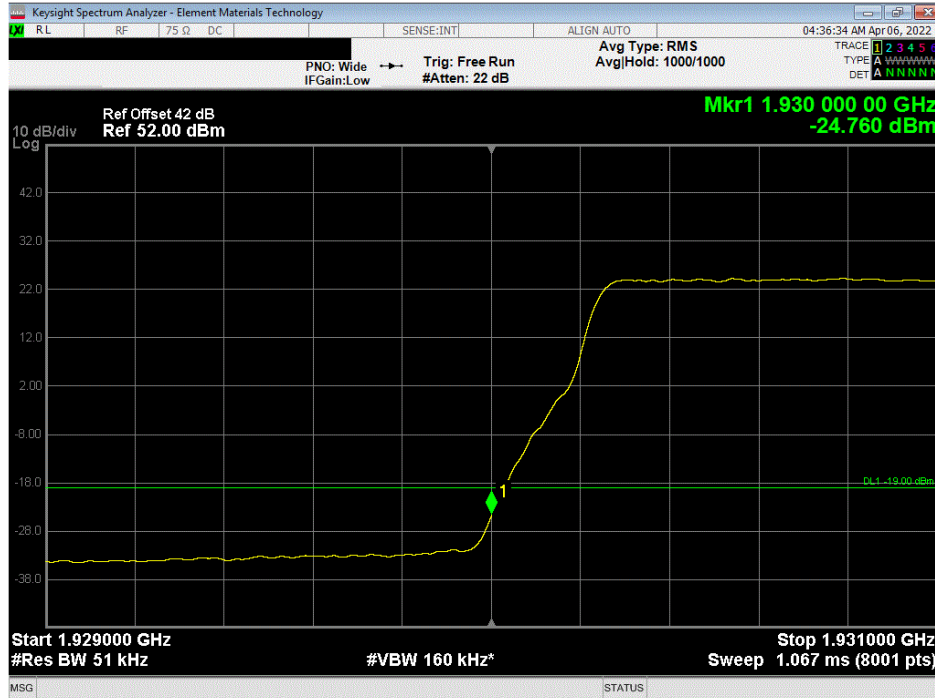


BAND EDGE COMPLIANCE

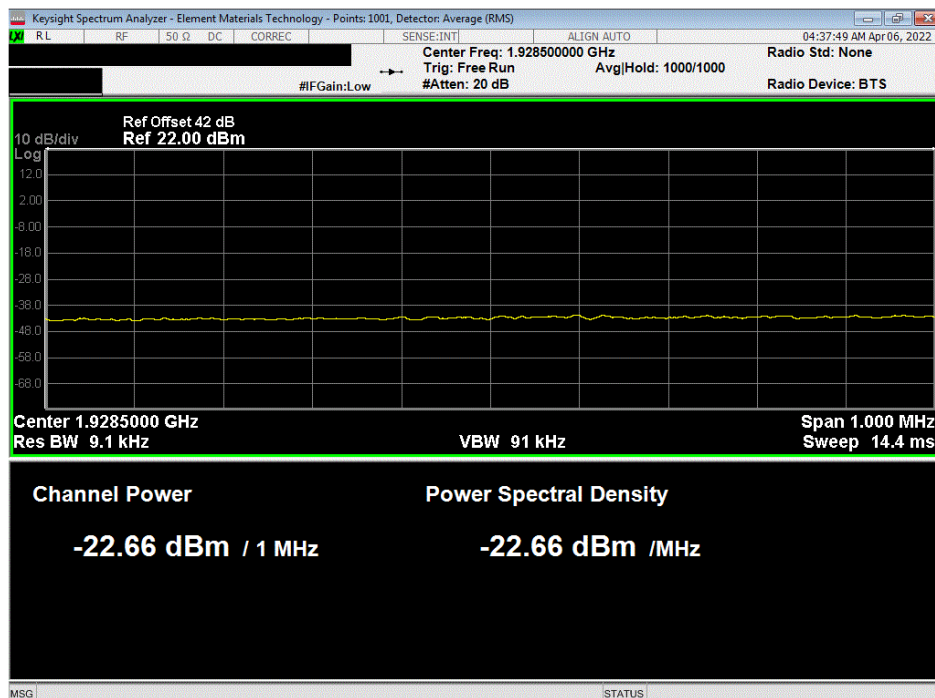


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.76	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.7	-19	Pass			

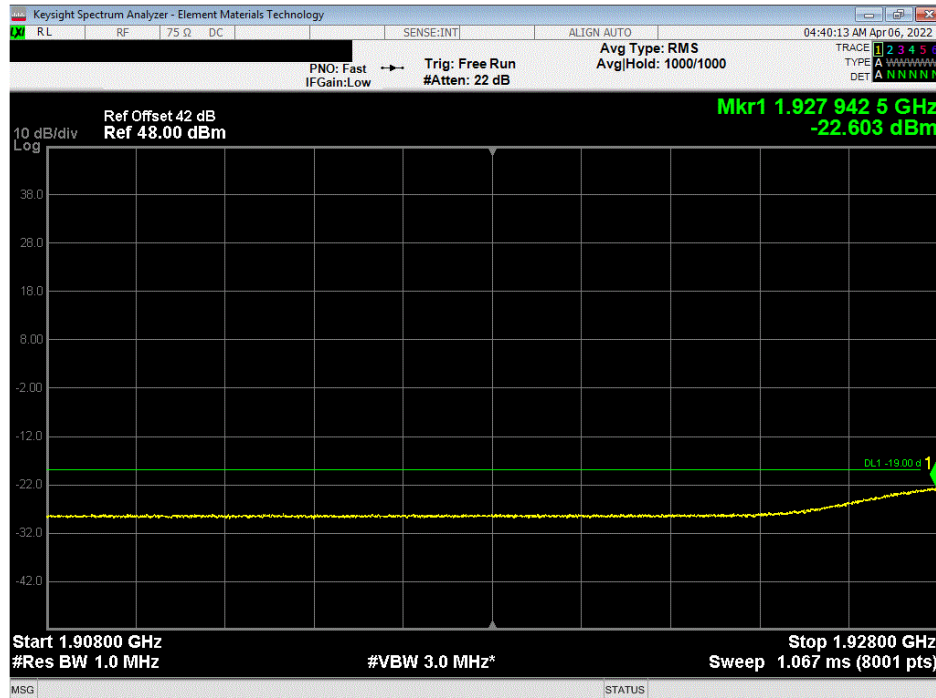


BAND EDGE COMPLIANCE

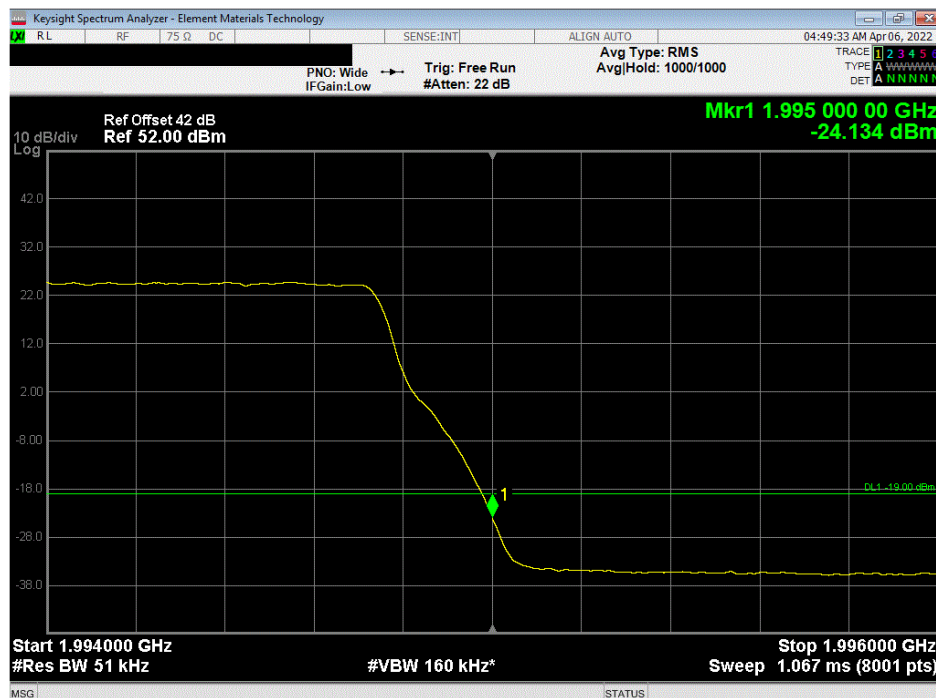


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.6	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.13	-19	Pass			

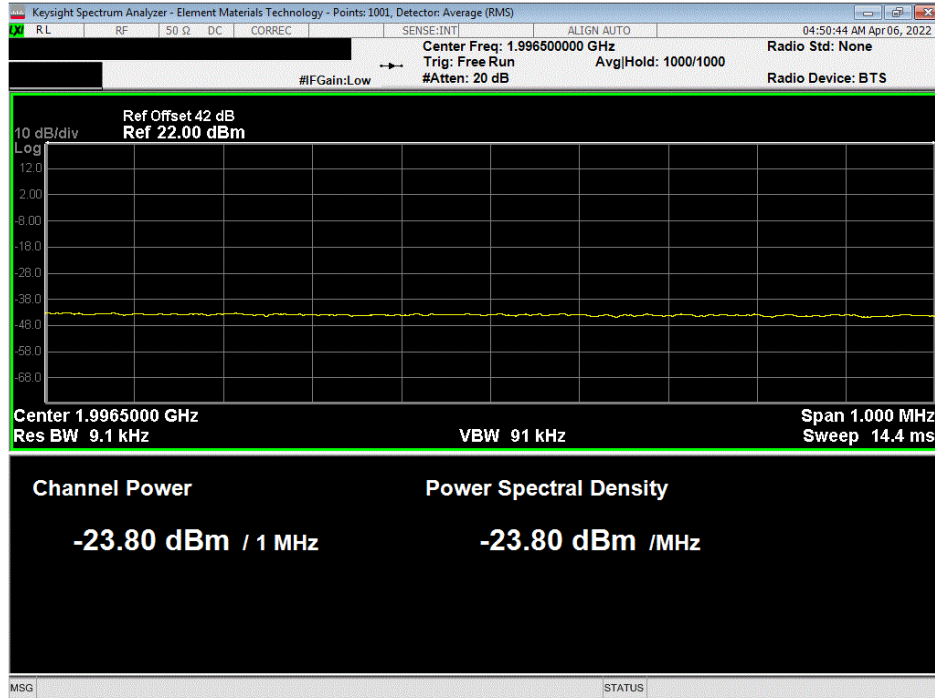


BAND EDGE COMPLIANCE

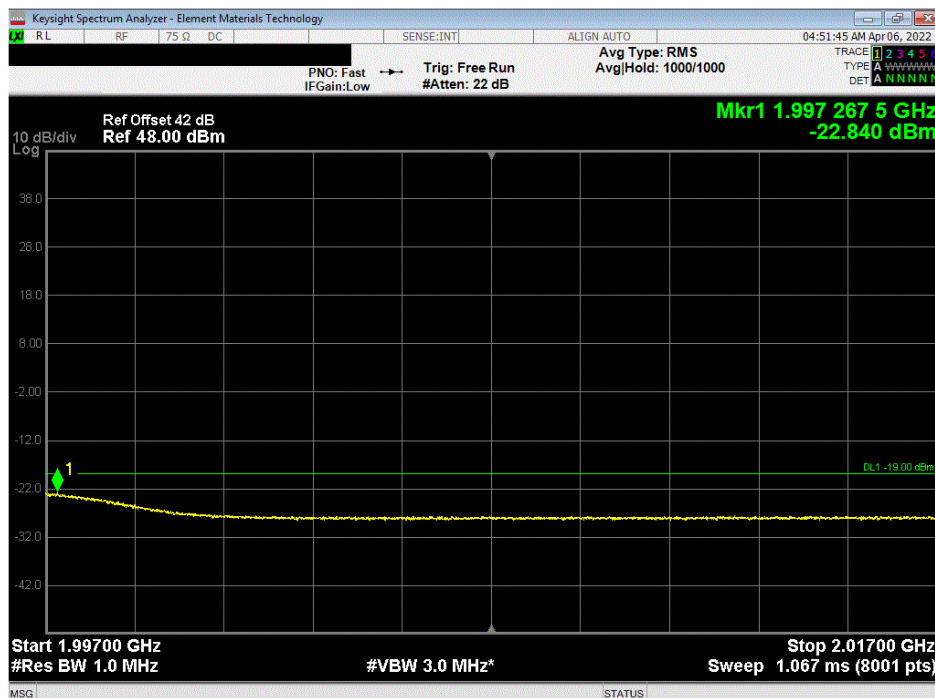


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.8	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.84	-19	Pass			

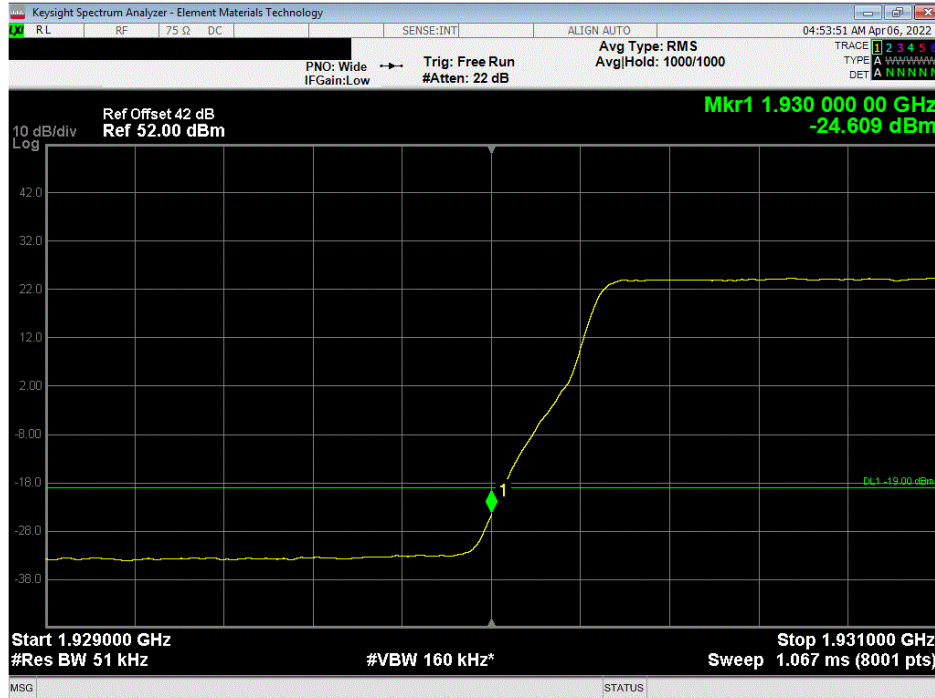


BAND EDGE COMPLIANCE

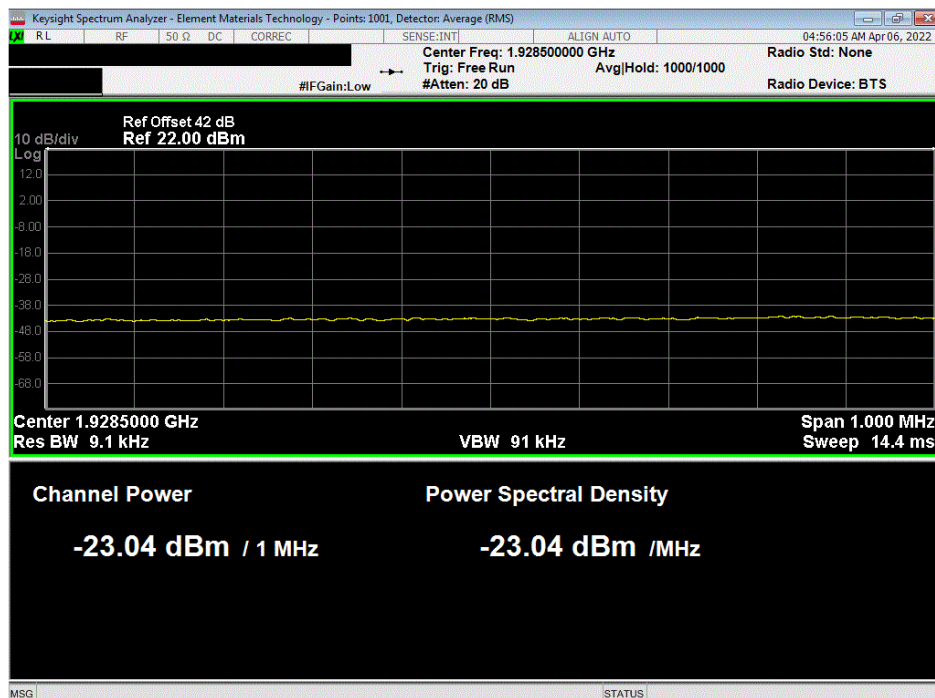


TMTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.61	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.0	-19	Pass			



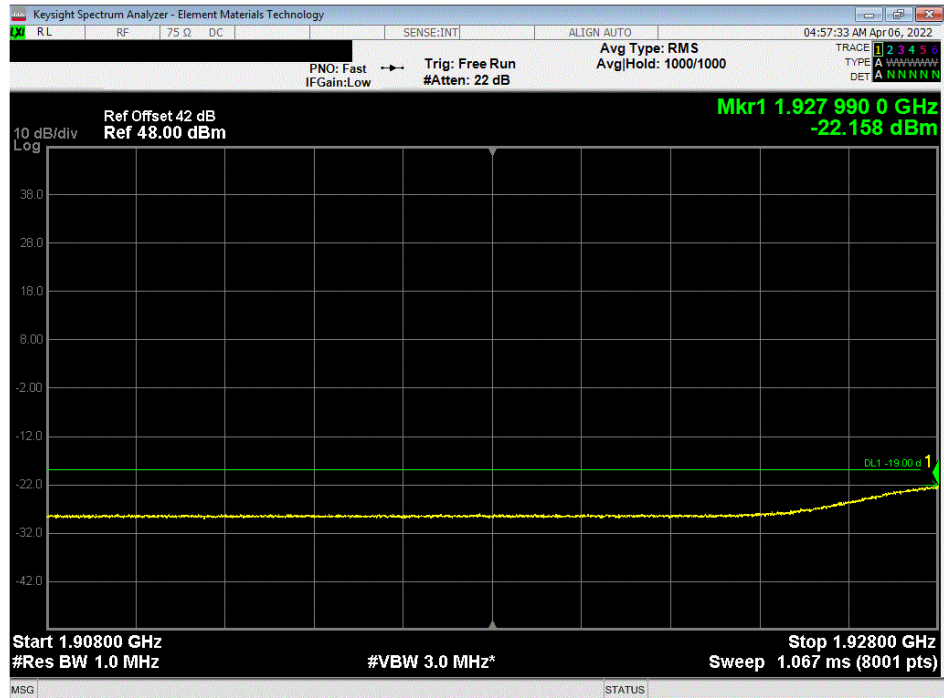
BAND EDGE COMPLIANCE



TbTtx 2021.12.14.1 XMR 2022.02.07.0

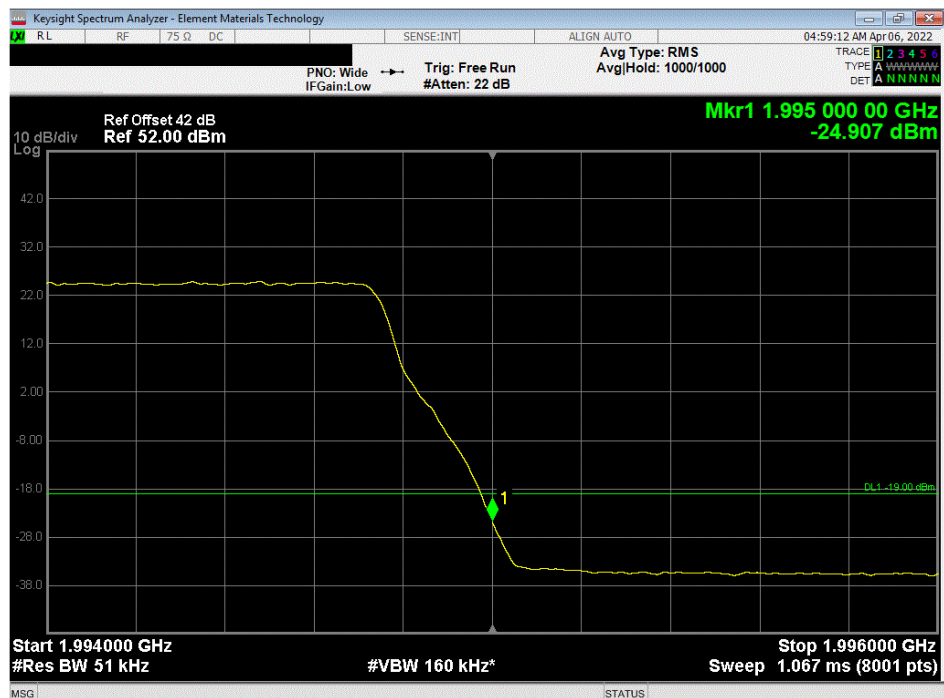
PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz

Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
3	-22.16	-19	Pass



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz

Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
1	-24.91	-19	Pass

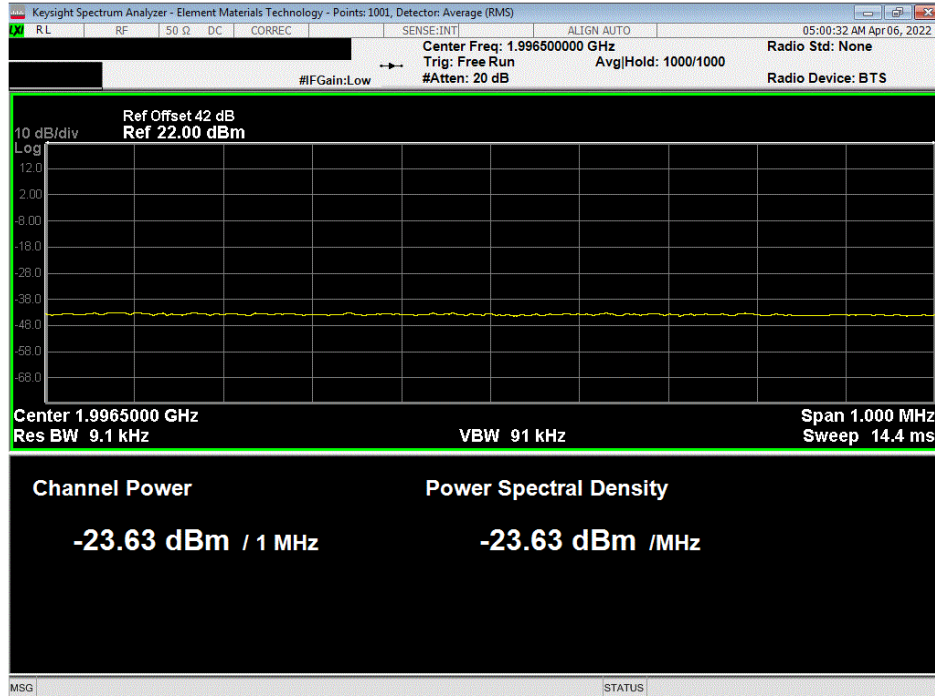


BAND EDGE COMPLIANCE

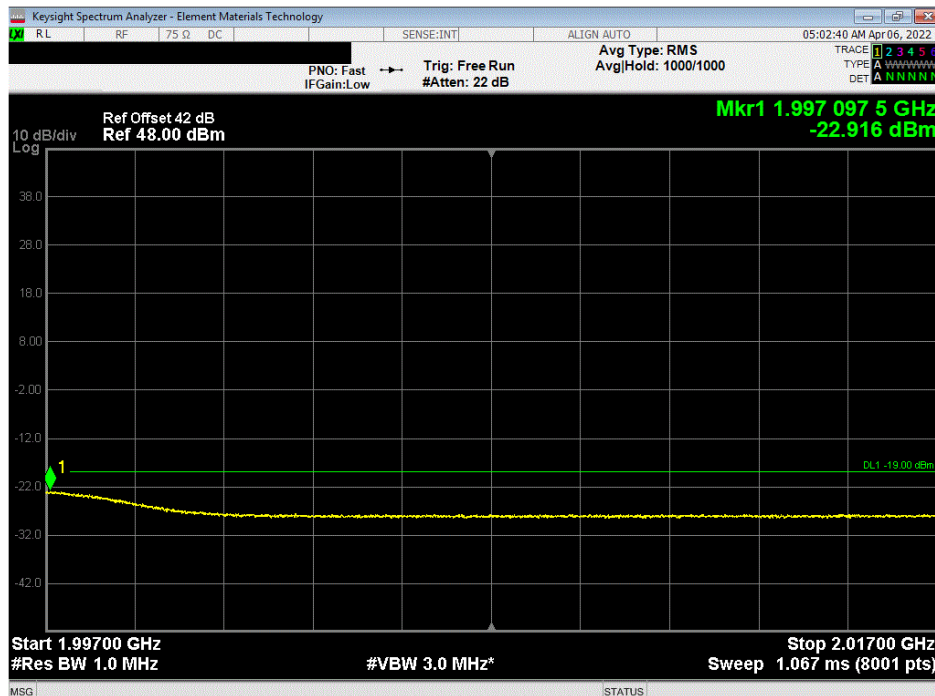


TbTtx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.6	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.92	-19	Pass			

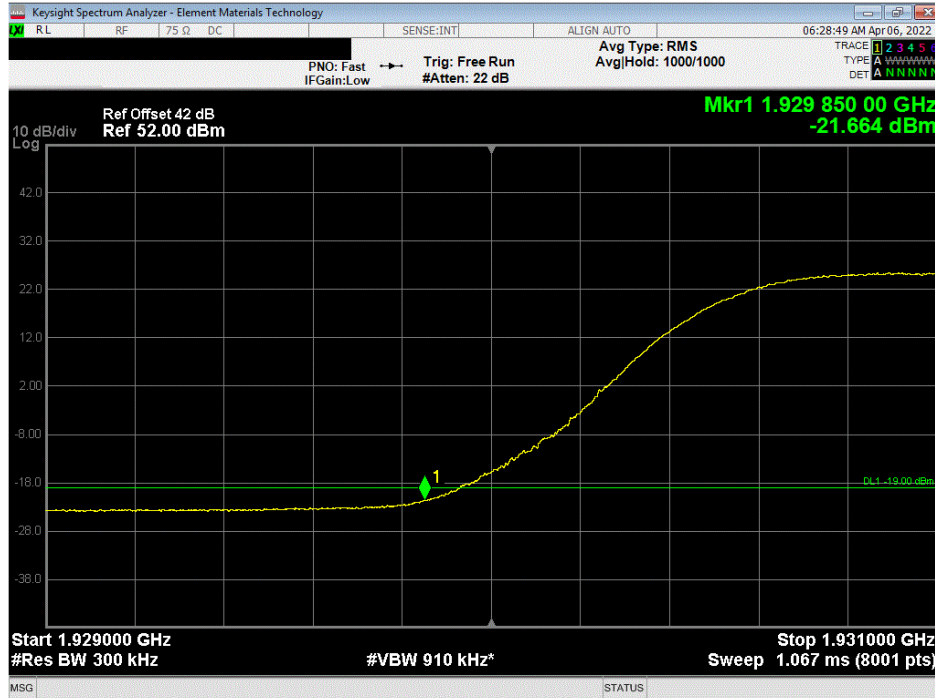


BAND EDGE COMPLIANCE

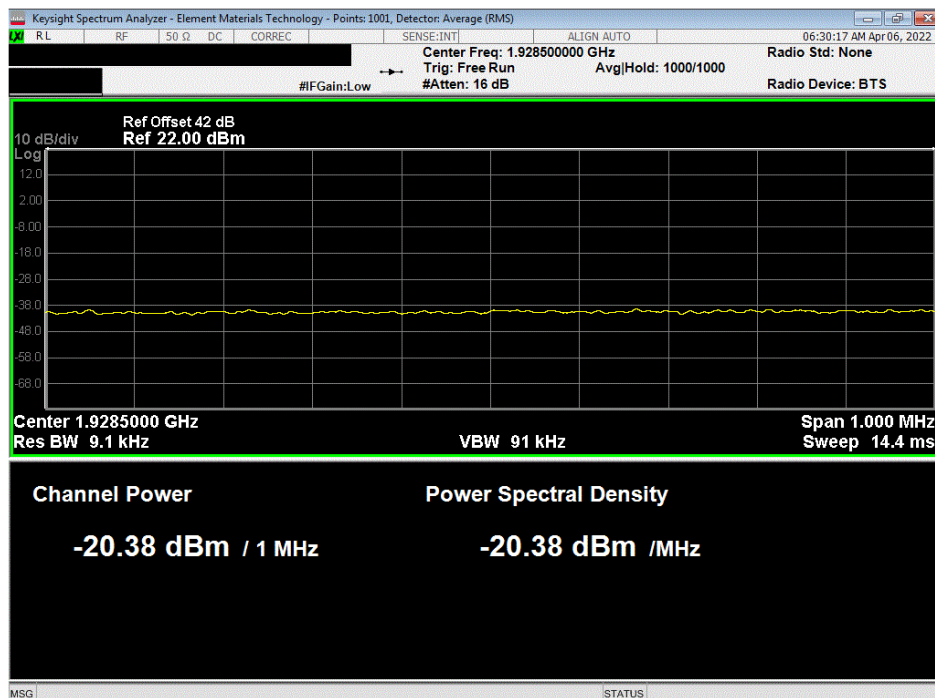


TbTx 2021.12.14.1 XMt 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.66	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

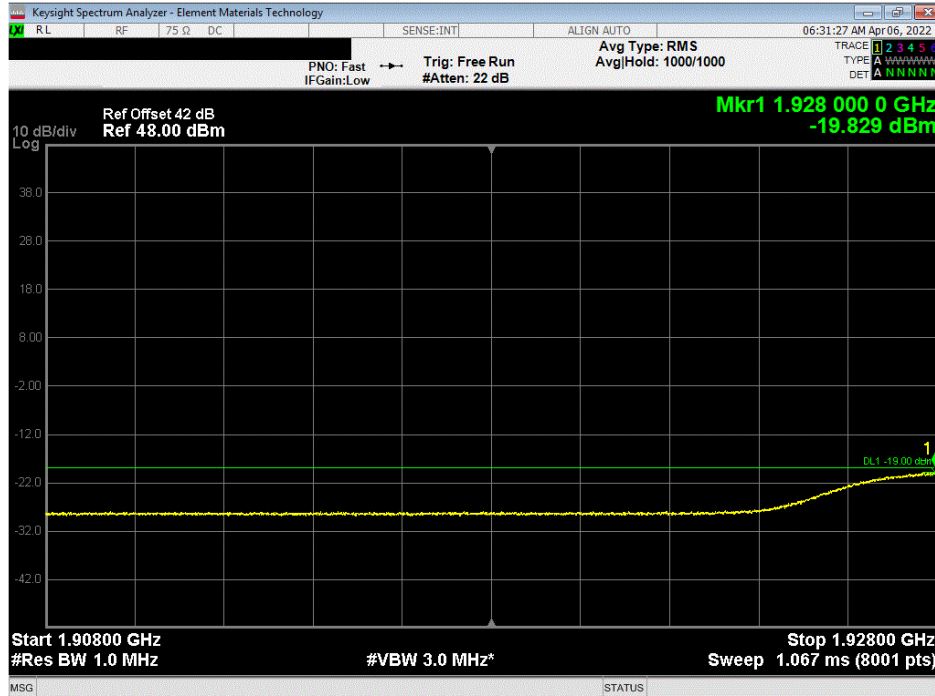


BAND EDGE COMPLIANCE

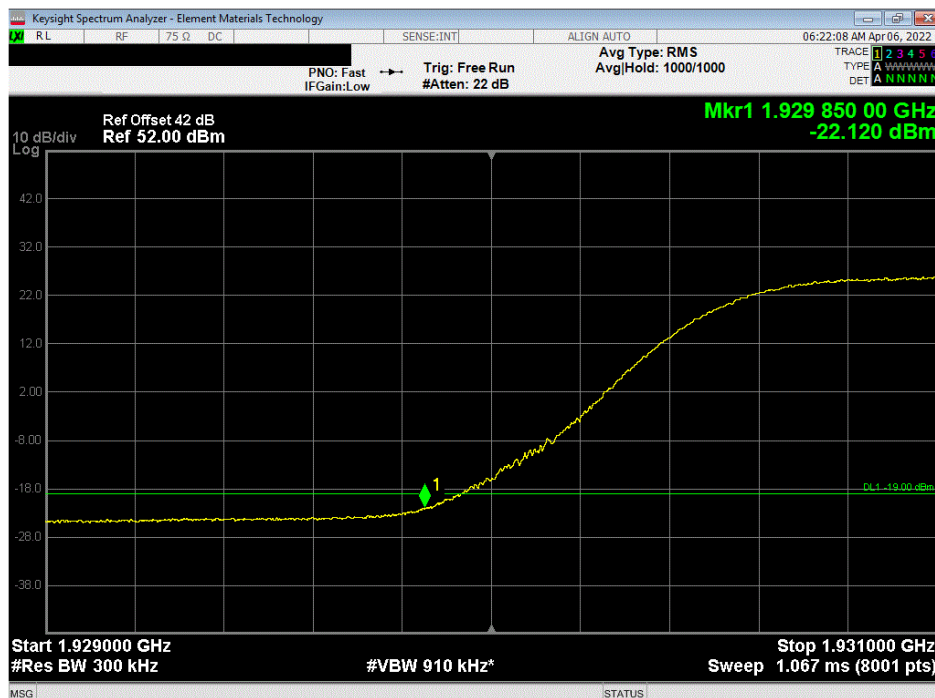


TMTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.83	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.12	-19	Pass			

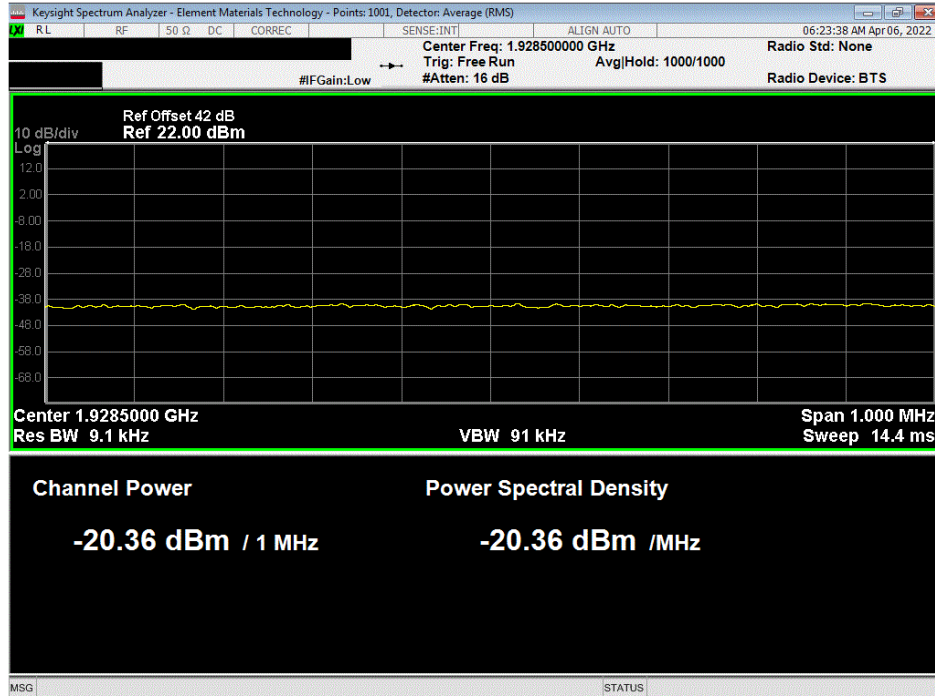


BAND EDGE COMPLIANCE

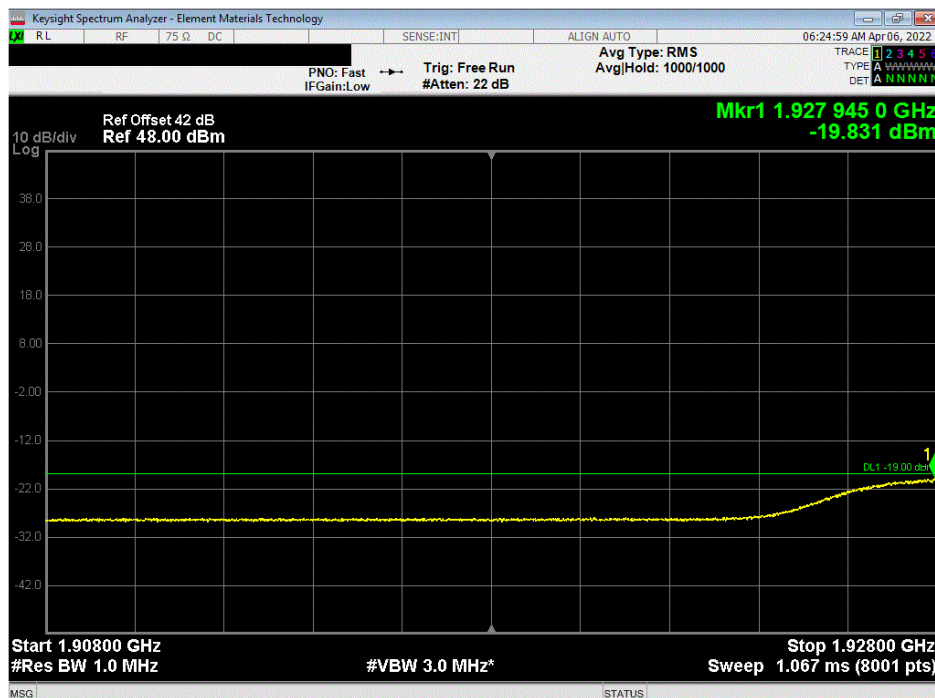


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.83	-19	Pass			

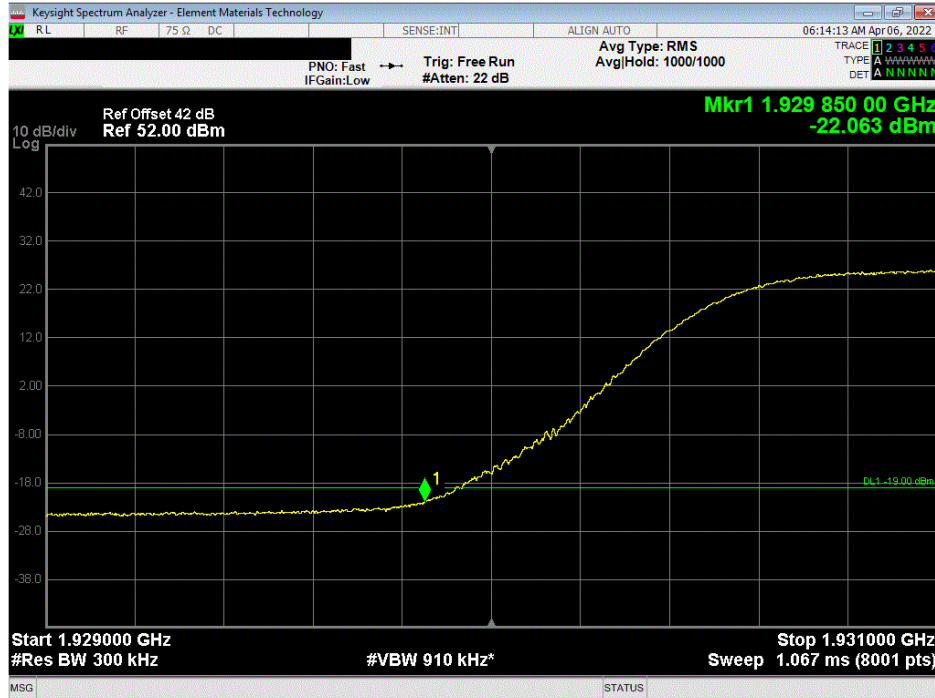


BAND EDGE COMPLIANCE

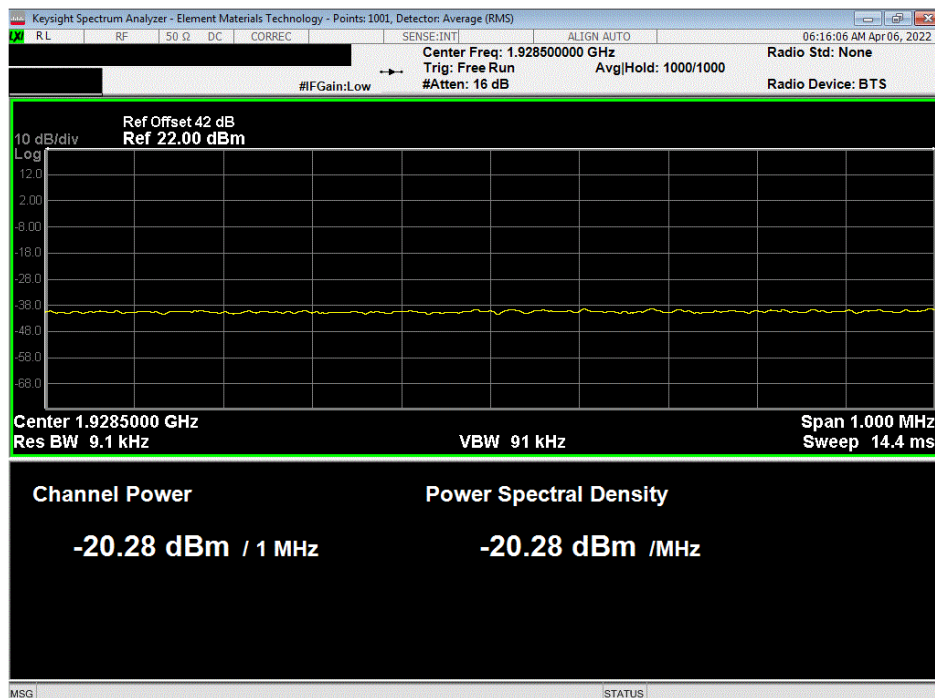


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.06	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.3	-19	Pass			

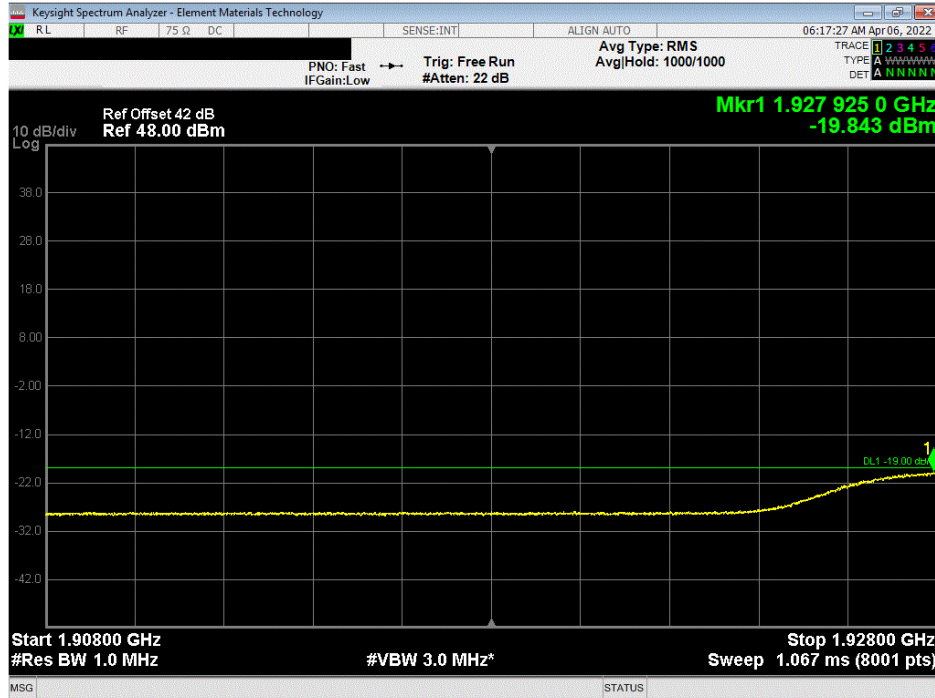


BAND EDGE COMPLIANCE

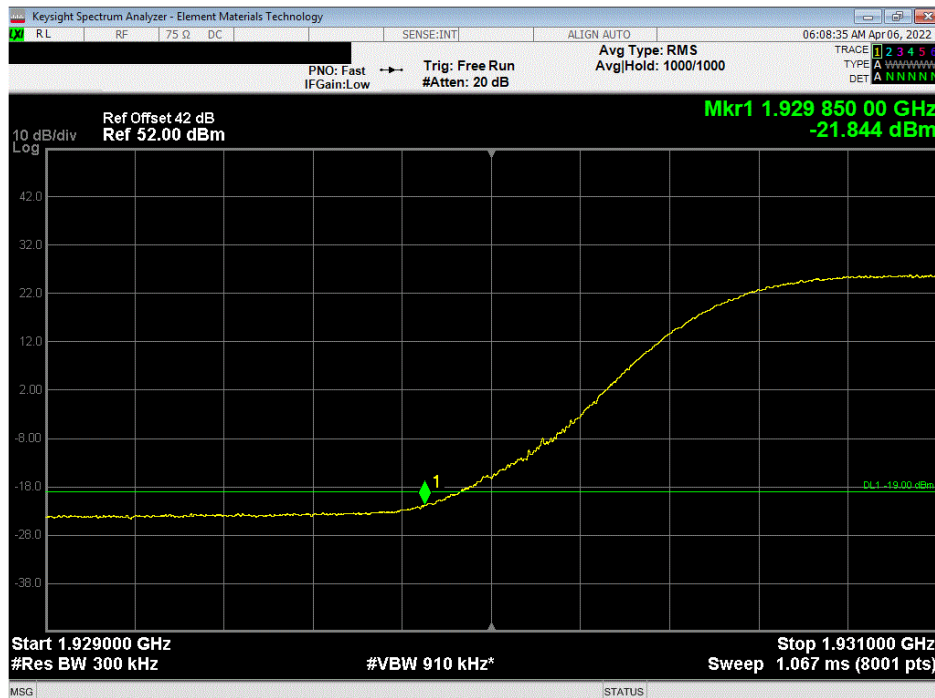


TbTtx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.84	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.84	-19	Pass			

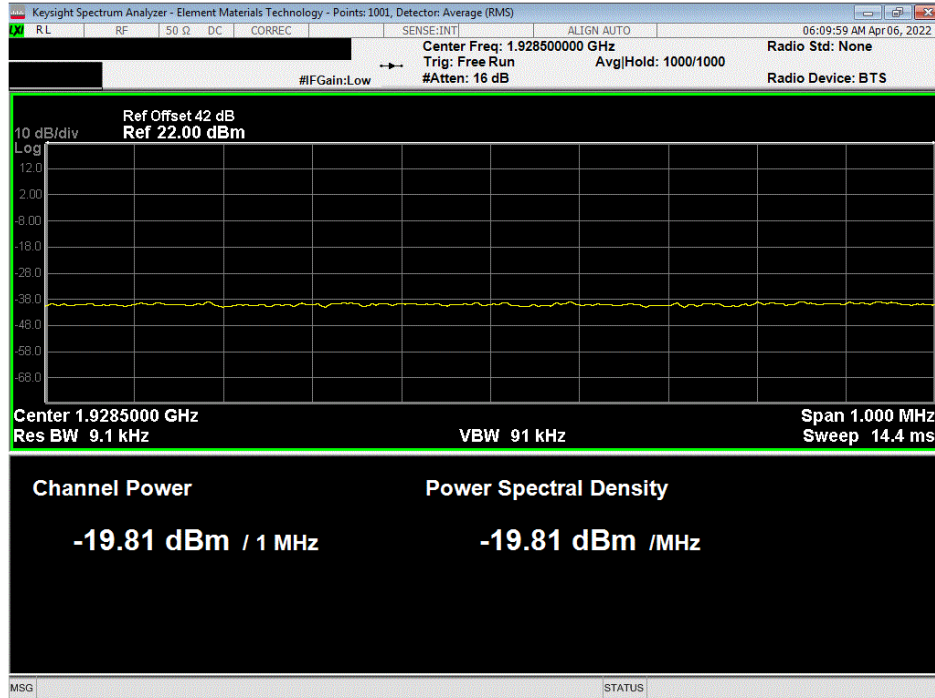


BAND EDGE COMPLIANCE

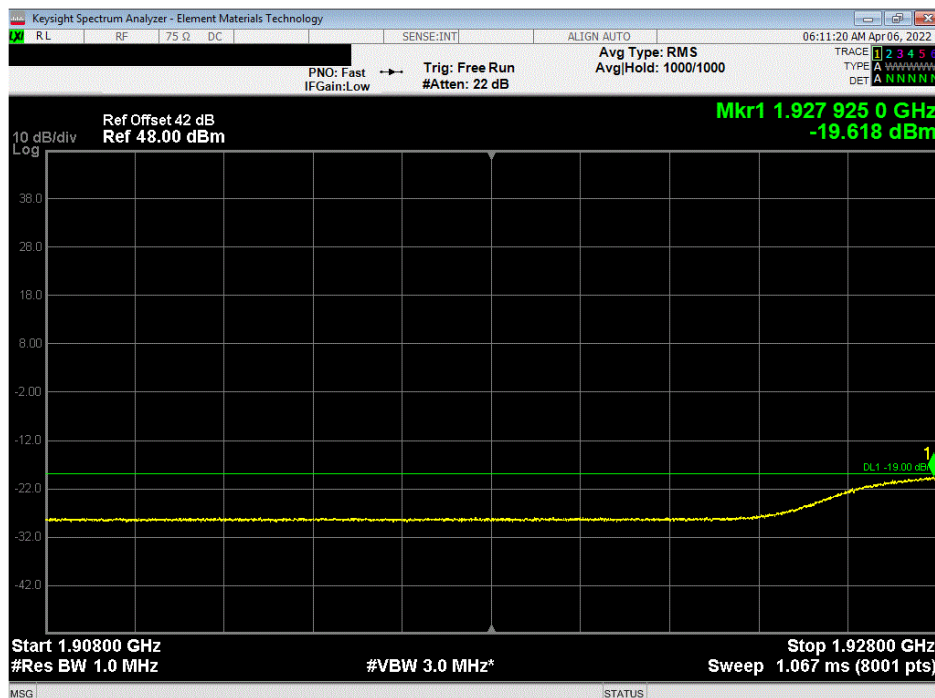


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-19.81	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.62	-19	Pass			

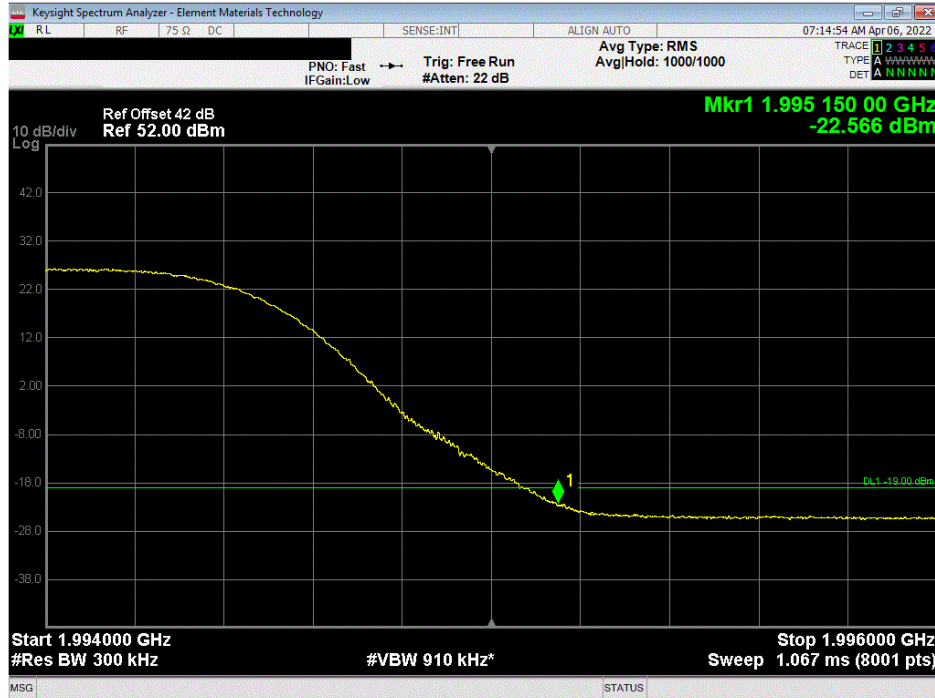


BAND EDGE COMPLIANCE

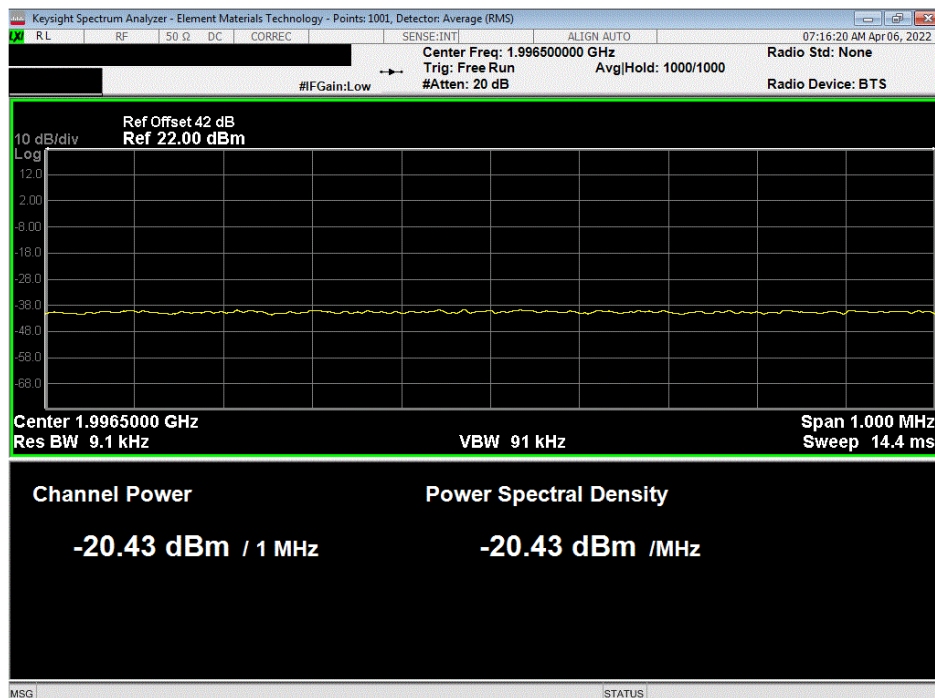


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.57	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

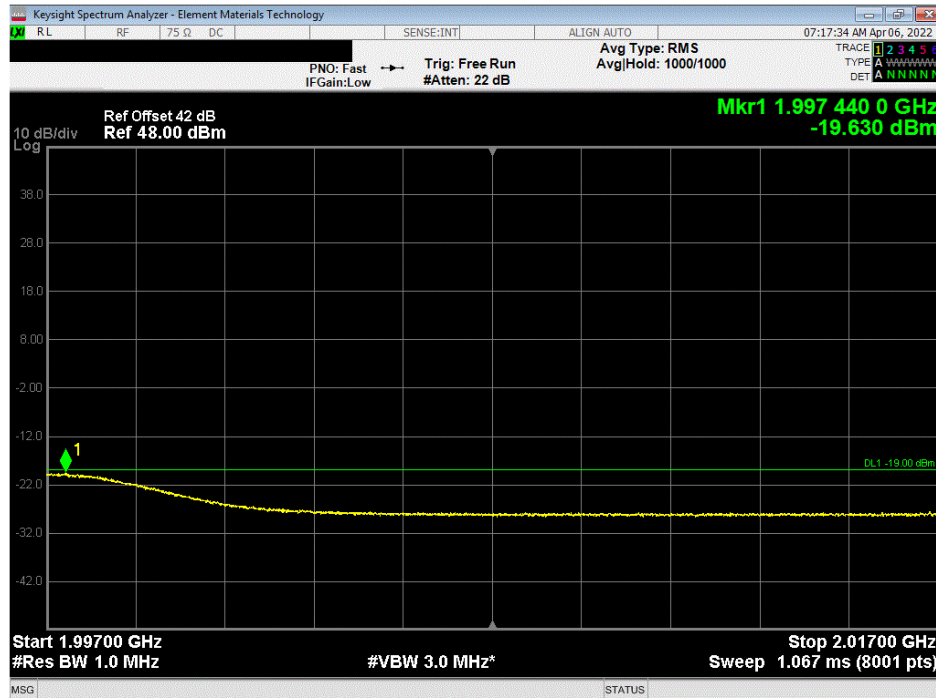


BAND EDGE COMPLIANCE

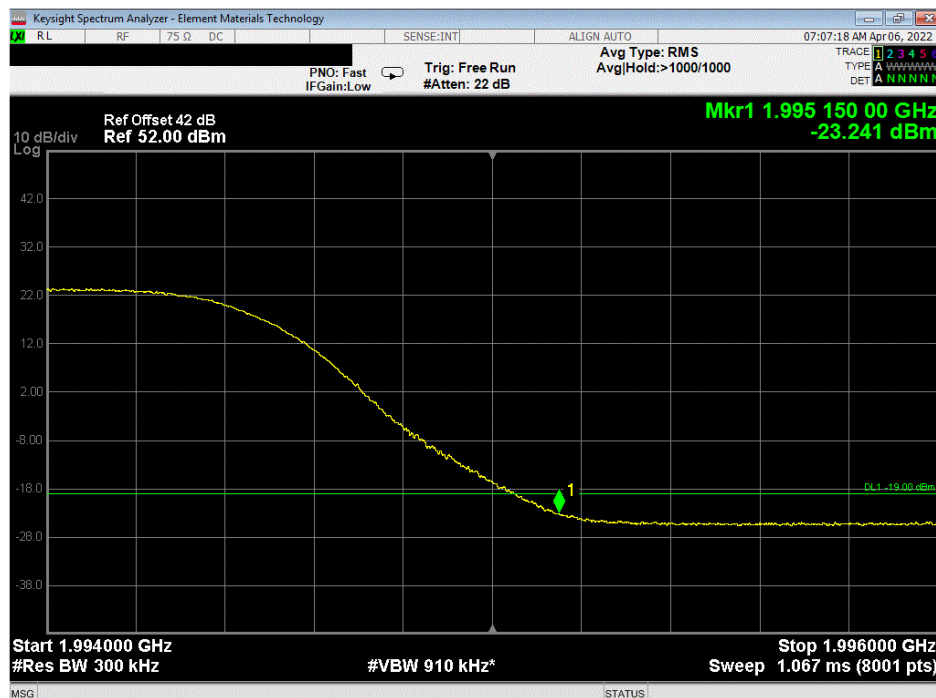


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
3		-19.63	-19	Pass		



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-23.29	-19	Pass		

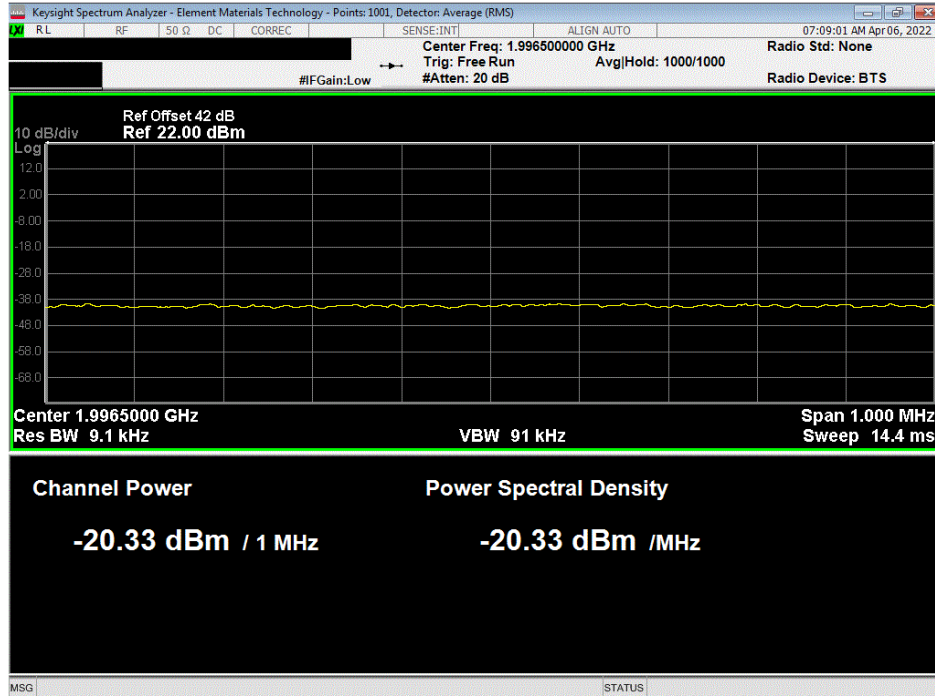


BAND EDGE COMPLIANCE

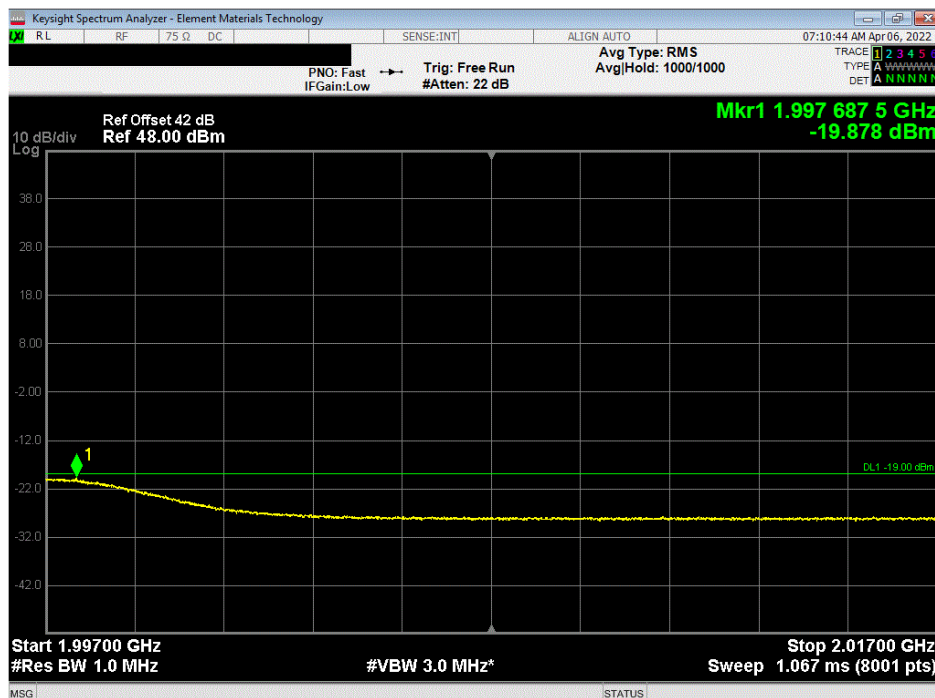


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.33	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.88	-19	Pass			

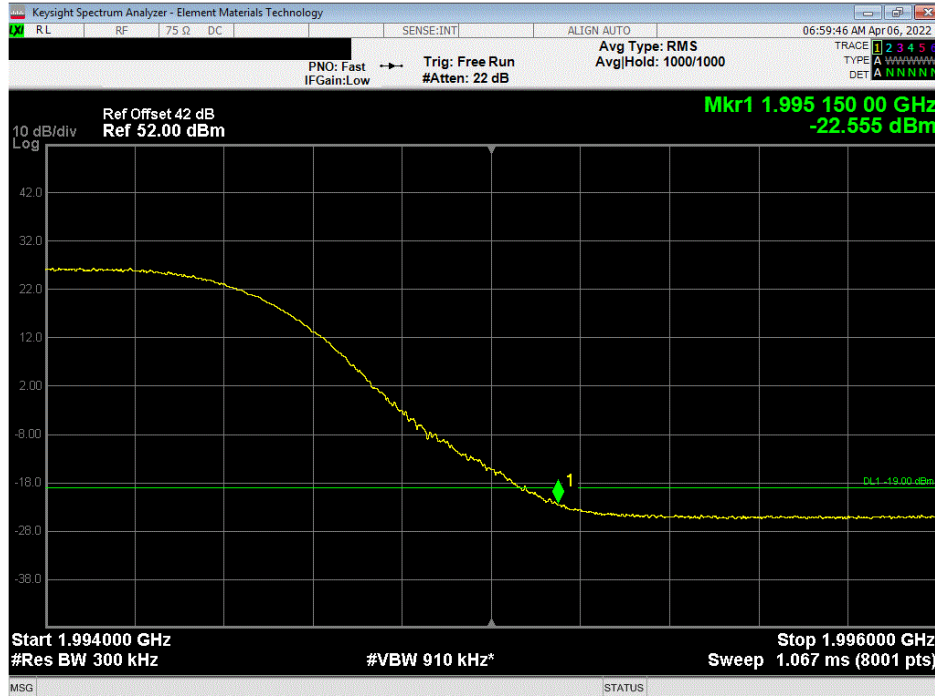


BAND EDGE COMPLIANCE

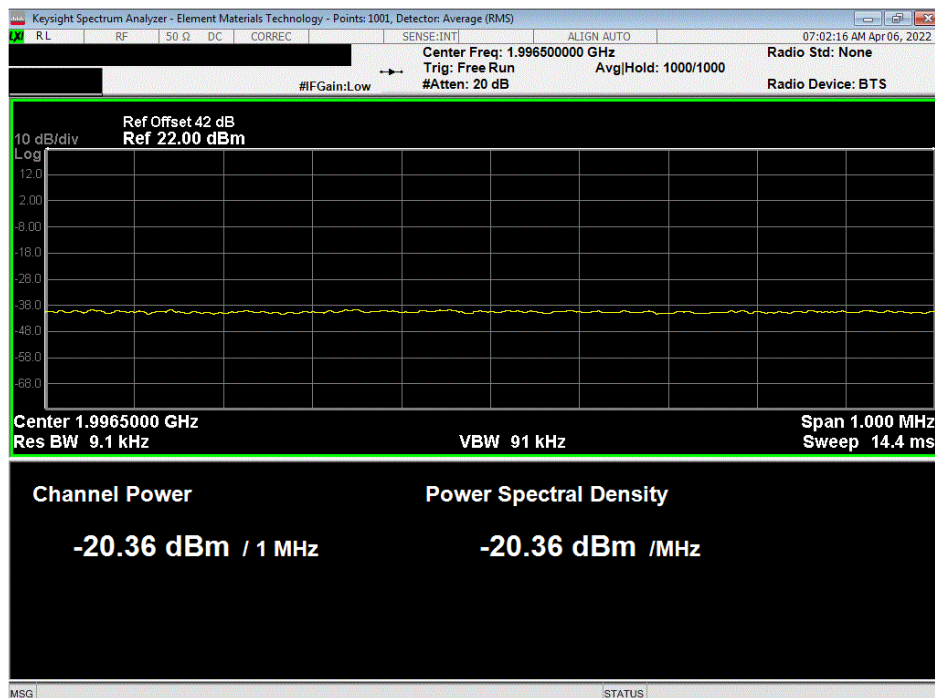


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.56	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

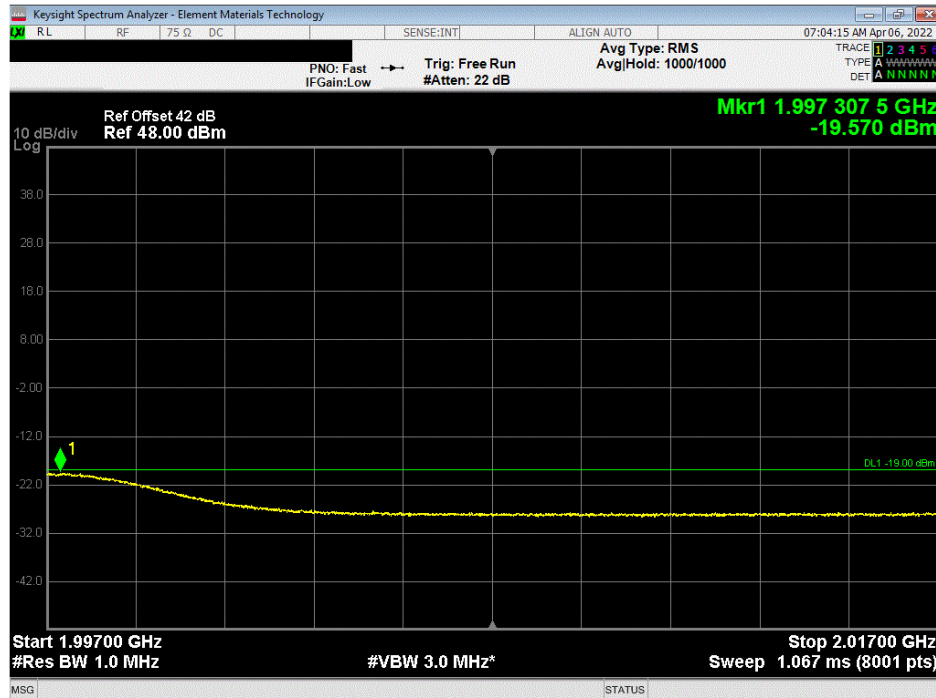


BAND EDGE COMPLIANCE

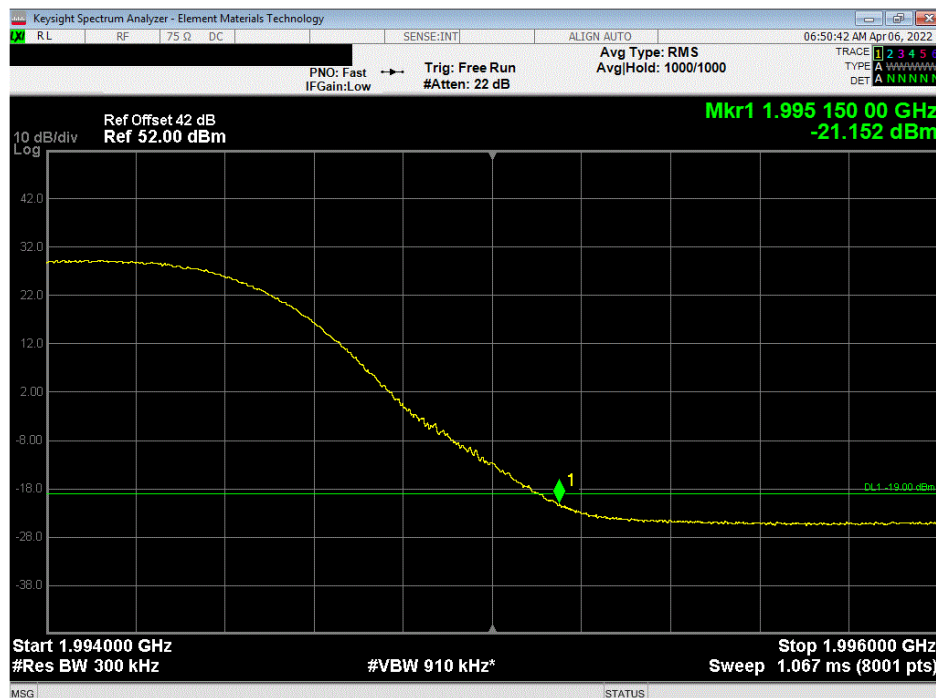


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
3		-19.57	-19	Pass		



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-21.15	-19	Pass		

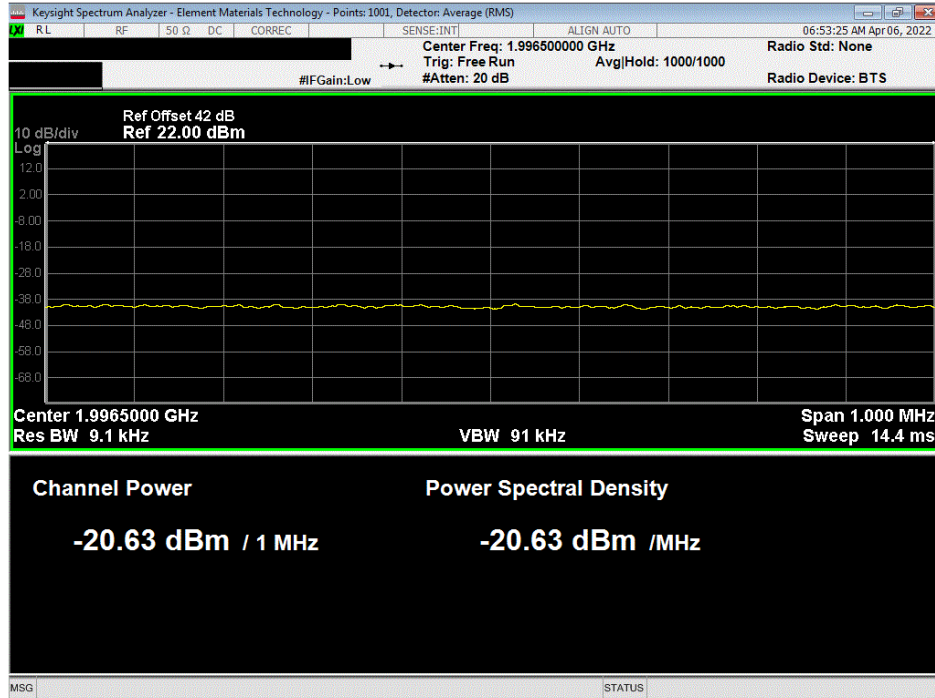


BAND EDGE COMPLIANCE

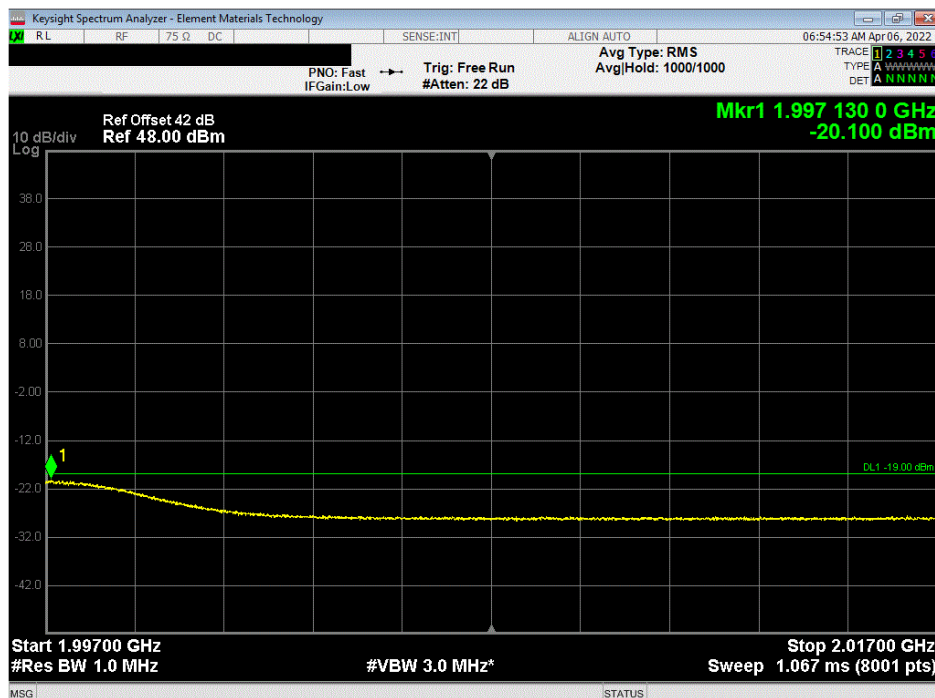


TbTx 2021.12.14.1 XMR 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.63	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.1	-19	Pass			



BAND EDGE COMPLIANCE



TbTtx 2021.12.14.1 XMM 2022.02.07.0

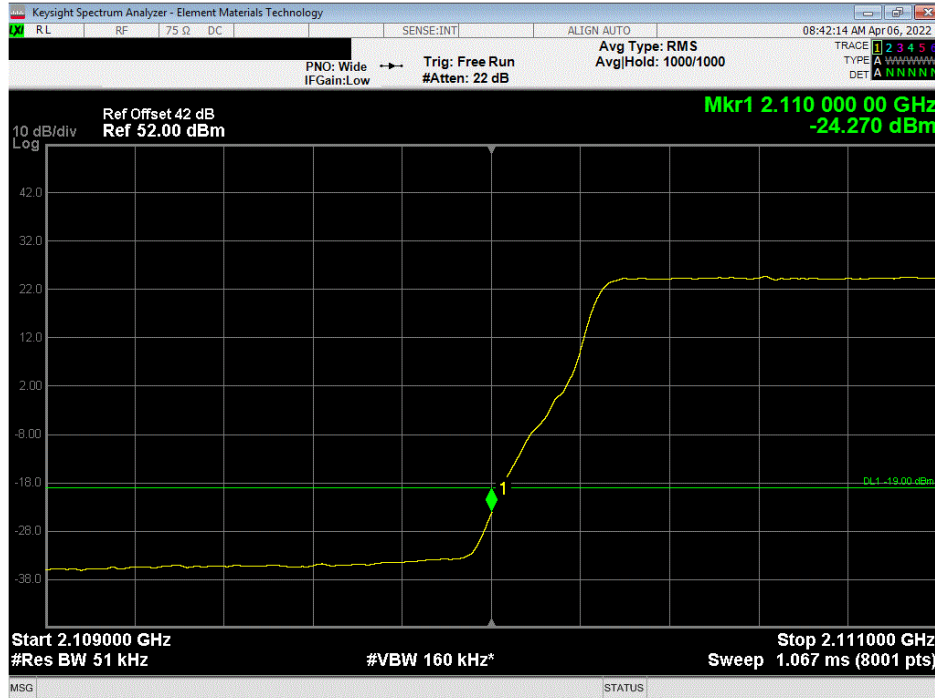
EUT:	AHFII Remote Radio Head	Work Order:	NOKI0038
Serial Number:	YK214000035	Date:	6-Apr-22
Customer:	Nokia of America Corporation	Temperature:	22.6 °C
Attendees:	Mitchell Hill	Humidity:	23.7% RH
Project:	None	Barometric Pres.:	1026 mbar
Tested by:	Mark Baytan	Power:	54 VDC
		Job Site:	TX09
TEST SPECIFICATIONS		Test Method	
FCC 27:2022		ANSI C63.26:2015	
RSS-139 Issue 3:2015		RSS-139 Issue 3:2015	
RSS-170 Issue 3:2015		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. For Test Case 1: the carriers are operated at maximum power (~26.6W or ~44.2dBm/AWS carrier and 40W/PCS carrier) with at total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carrier). For Test Case 2 and 3: the carriers are operated at maximum power (~40W/AWS carrier and 40W/PCS carrier) with at total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carrier). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance for Test Case 1.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Frequency Range	Max Value (dBm) Limit < (dBm) Result
AWS Multicarrier Multiband			
Port 1			
Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier)			
QPSK Modulation			
	AWS Carrier 1, 2112.5 MHz	1	-24.3
	AWS Carrier 1, 2112.5 MHz	2	-24.6
	AWS Carrier 1, 2112.5 MHz	3	-23.1
	AWS Carrier 3, 2197.5 MHz	1	-23.3
	AWS Carrier 3, 2197.5 MHz	2	-25.5
	AWS Carrier 3, 2197.5 MHz	3	-23.2
16-QAM Modulation			
	AWS Carrier 1, 2112.5 MHz	1	-25.0
	AWS Carrier 1, 2112.5 MHz	2	-24.7
	AWS Carrier 1, 2112.5 MHz	3	-23.2
	AWS Carrier 3, 2197.5 MHz	1	-24.2
	AWS Carrier 3, 2197.5 MHz	2	-25.6
	AWS Carrier 3, 2197.5 MHz	3	-23.6
64-QAM Modulation			
	AWS Carrier 1, 2112.5 MHz	1	-24.8
	AWS Carrier 1, 2112.5 MHz	2	-24.4
	AWS Carrier 1, 2112.5 MHz	3	-22.8
	AWS Carrier 3, 2197.5 MHz	1	-23.4
	AWS Carrier 3, 2197.5 MHz	2	-25.4
	AWS Carrier 3, 2197.5 MHz	3	-23.4
256-QAM Modulation			
	AWS Carrier 1, 2112.5 MHz	1	-24.1
	AWS Carrier 1, 2112.5 MHz	2	-24.7
	AWS Carrier 1, 2112.5 MHz	3	-23.2
	AWS Carrier 3, 2197.5 MHz	1	-23.1
	AWS Carrier 3, 2197.5 MHz	2	-25.9
	AWS Carrier 3, 2197.5 MHz	3	-23.8
Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier)			
QPSK Modulation			
	AWS Carrier 1, 2125 MHz	1	-22.7
	AWS Carrier 1, 2125 MHz	2	-21.9
	AWS Carrier 1, 2125 MHz	3	-20.7
16-QAM Modulation			
	AWS Carrier 1, 2125 MHz	1	-23.2
	AWS Carrier 1, 2125 MHz	2	-22.4
	AWS Carrier 1, 2125 MHz	3	-21.1
64-QAM Modulation			
	AWS Carrier 1, 2125 MHz	1	-23.1
	AWS Carrier 1, 2125 MHz	2	-22.1
	AWS Carrier 1, 2125 MHz	3	-21.1
256-QAM Modulation			
	AWS Carrier 1, 2125 MHz	1	-23.3
	AWS Carrier 1, 2125 MHz	2	-22.3
	AWS Carrier 1, 2125 MHz	3	-21.2
Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier)			
QPSK Modulation			
	AWS Carrier 2, 2185 MHz	1	-23.2
	AWS Carrier 2, 2185 MHz	2	-23.1
	AWS Carrier 2, 2185 MHz	3	-21.7
16-QAM Modulation			
	AWS Carrier 2, 2185 MHz	1	-24.1
	AWS Carrier 2, 2185 MHz	2	-23.2
	AWS Carrier 2, 2185 MHz	3	-21.6
64-QAM Modulation			
	AWS Carrier 2, 2185 MHz	1	-23.2
	AWS Carrier 2, 2185 MHz	2	-22.9
	AWS Carrier 2, 2185 MHz	3	-21.4
256-QAM Modulation			
	AWS Carrier 2, 2185 MHz	1	-22.8
	AWS Carrier 2, 2185 MHz	2	-22.5
	AWS Carrier 2, 2185 MHz	3	-21.4

BAND EDGE COMPLIANCE

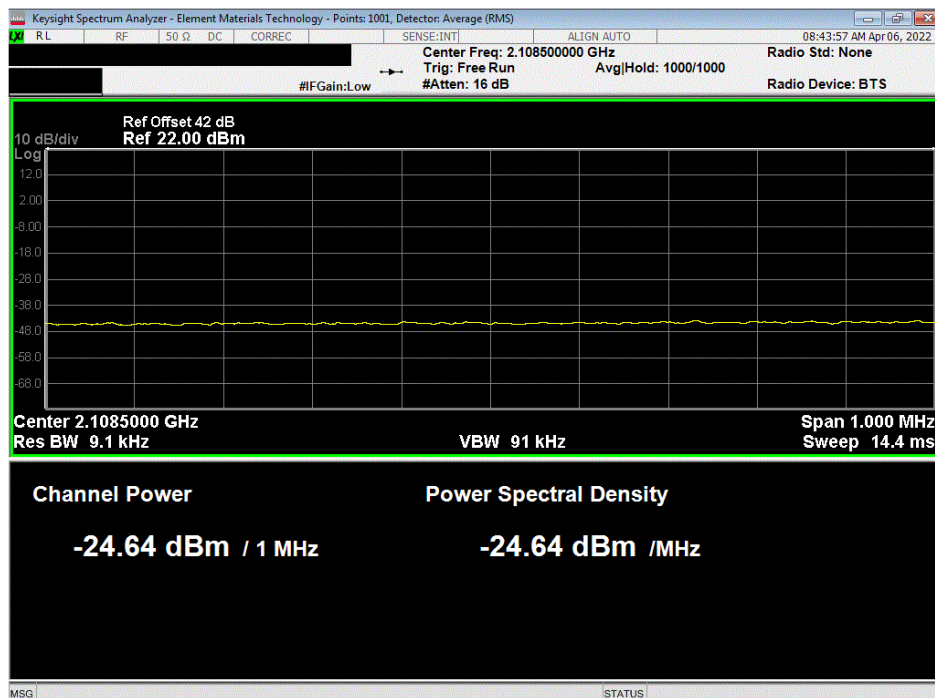


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.27	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.6	-19	Pass			



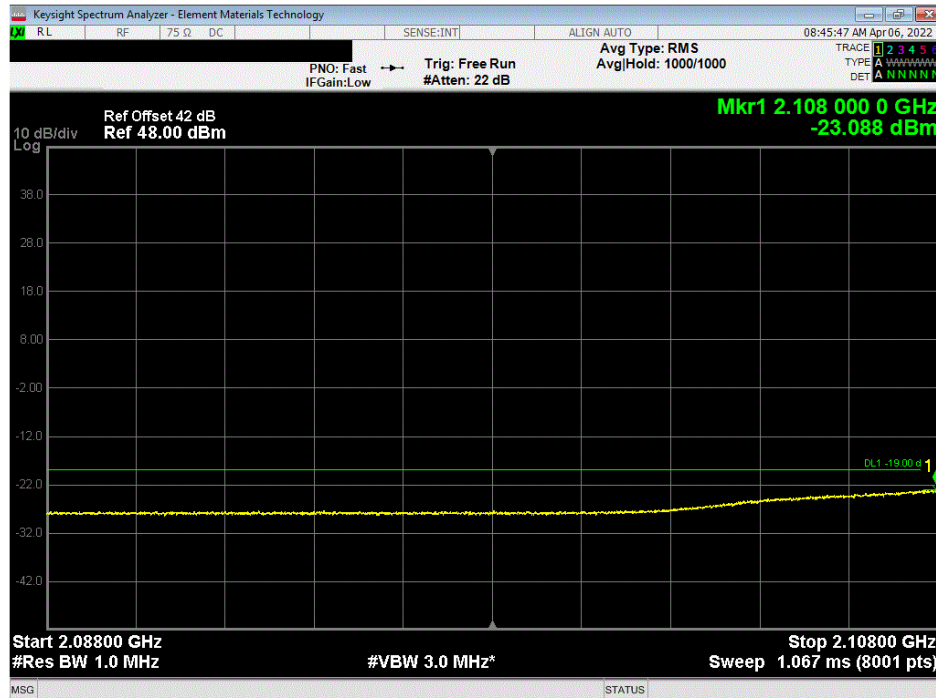
BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMR 2022.02.07.0

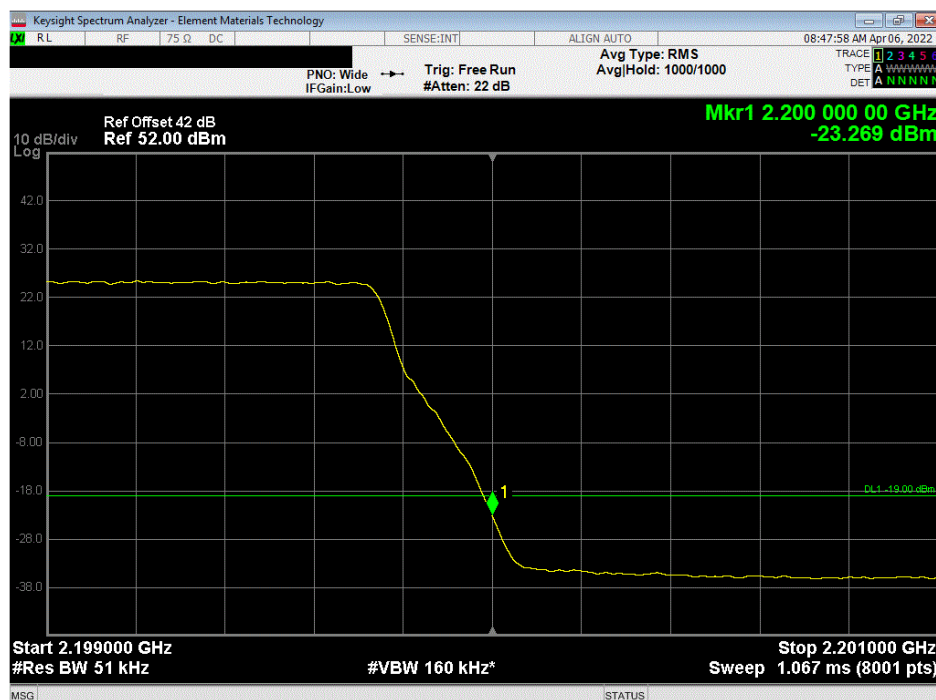
AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz

Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
3	-23.09	-19	Pass



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz

Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
1	-23.27	-19	Pass

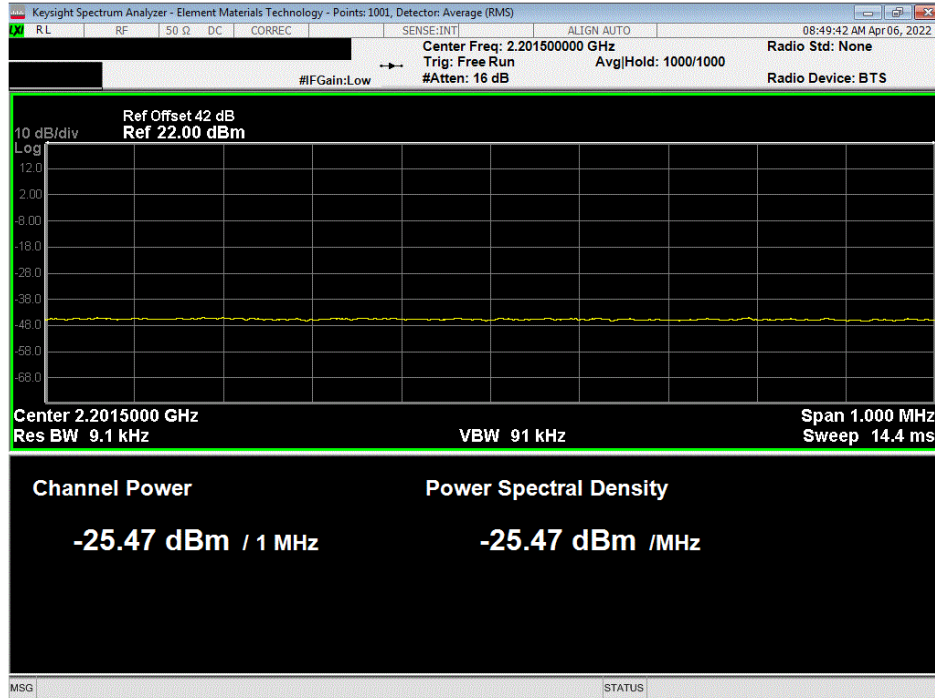


BAND EDGE COMPLIANCE

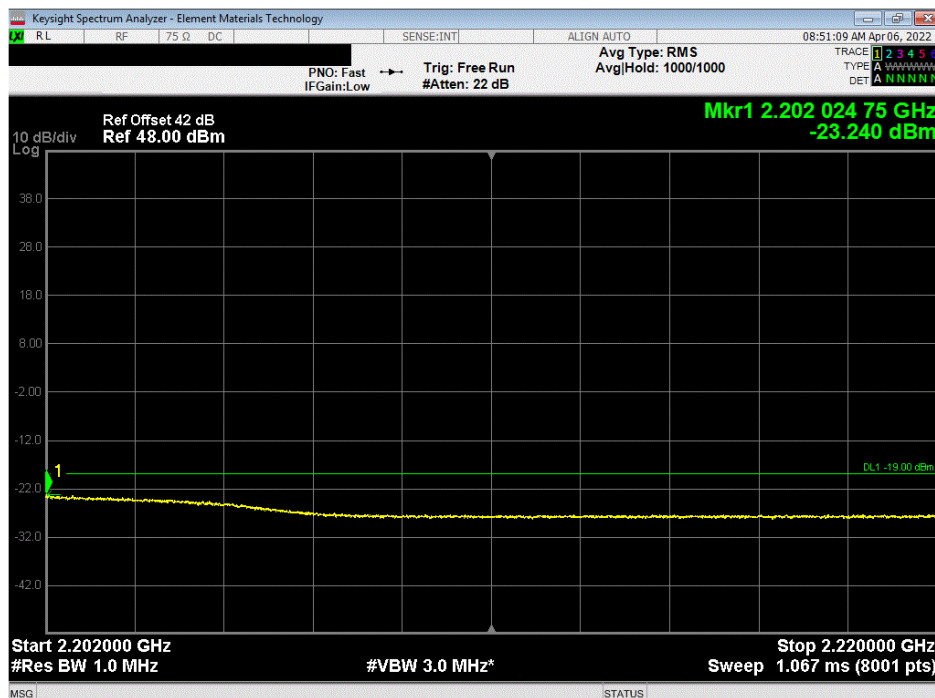


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.24	-19	Pass			

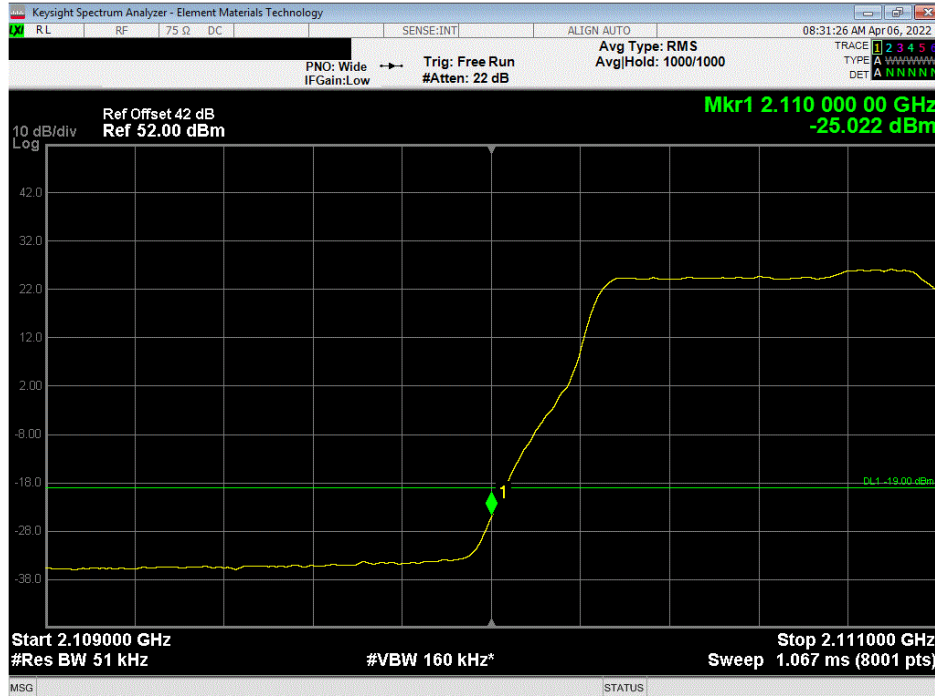


BAND EDGE COMPLIANCE

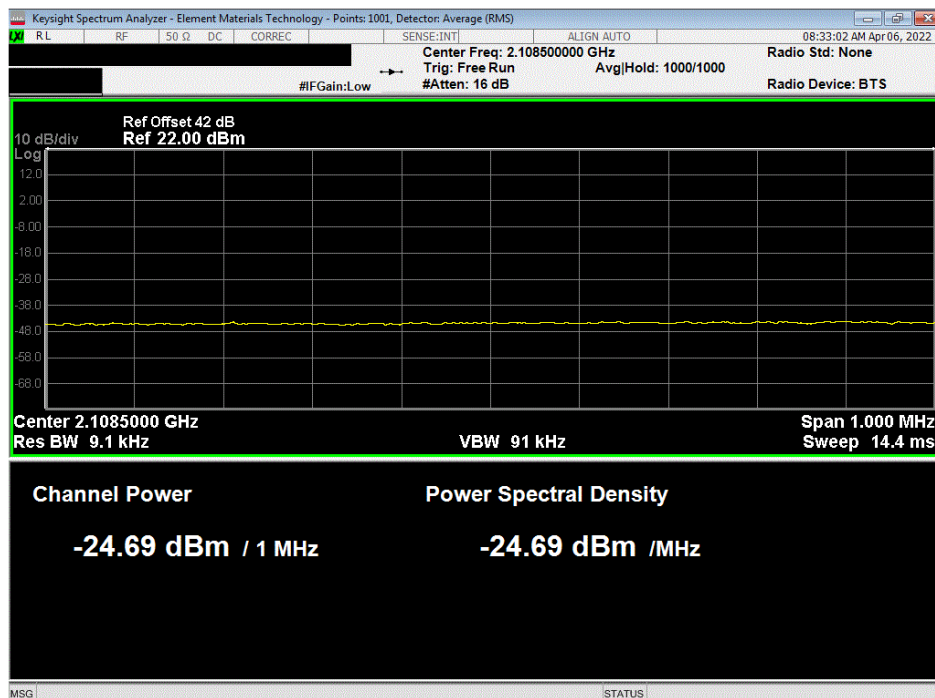


TMTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.02	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.7	-19	Pass			

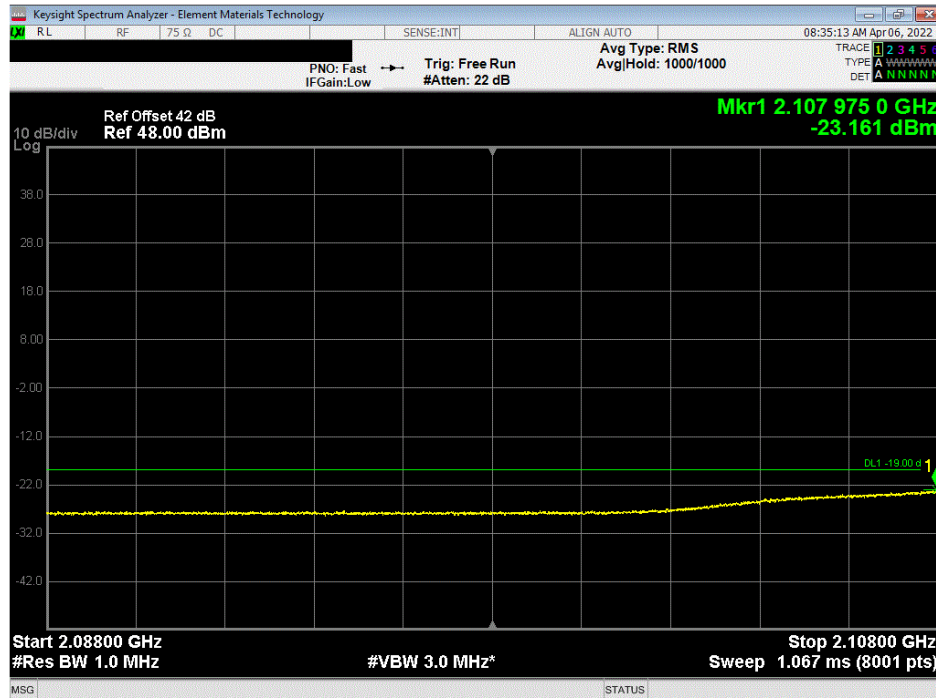


BAND EDGE COMPLIANCE

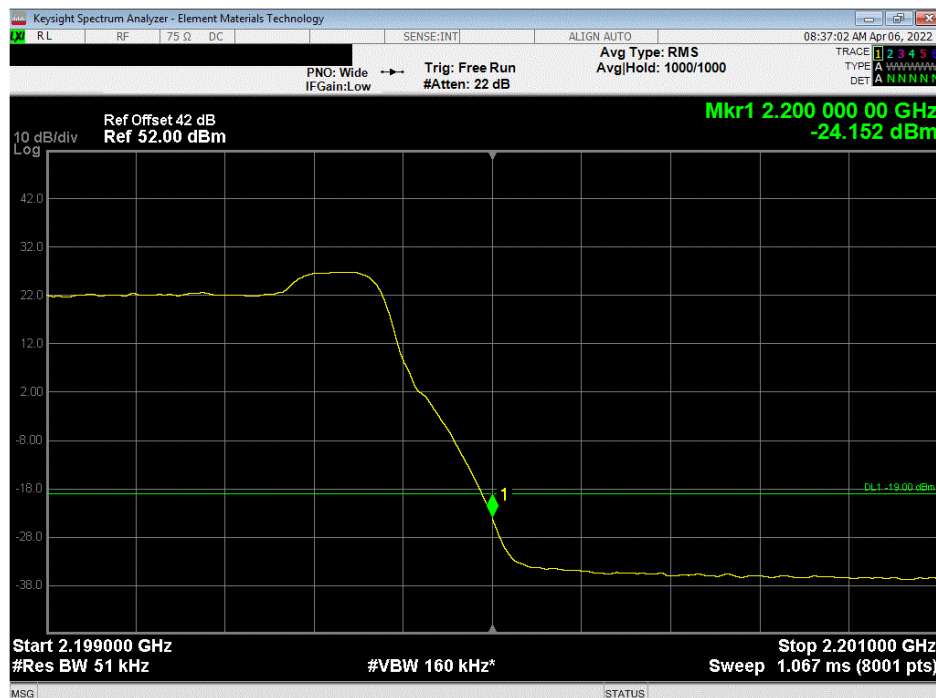


TMTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.16	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.15	-19	Pass			

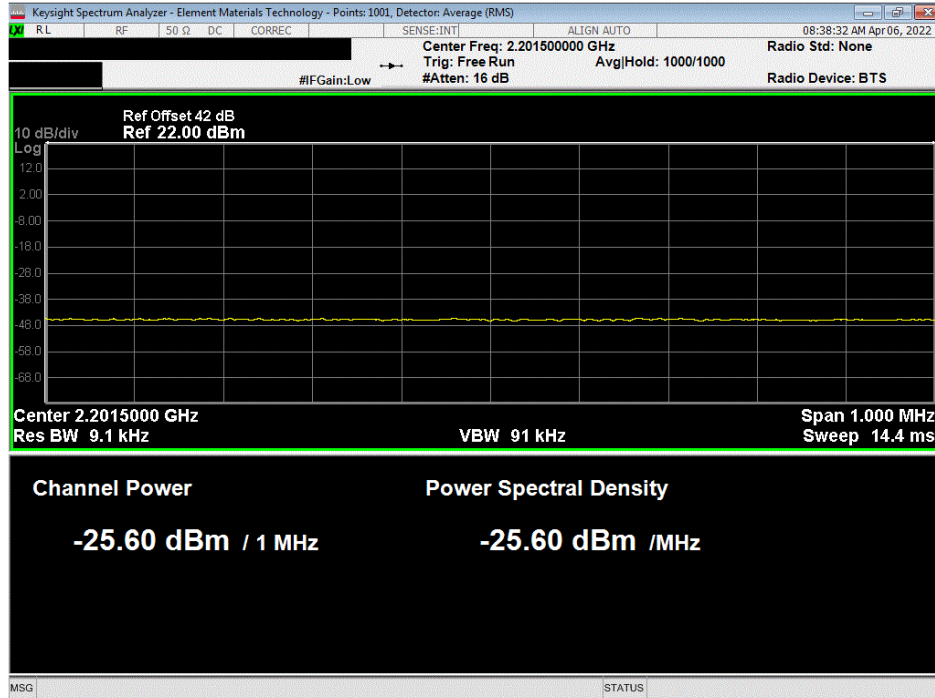


BAND EDGE COMPLIANCE

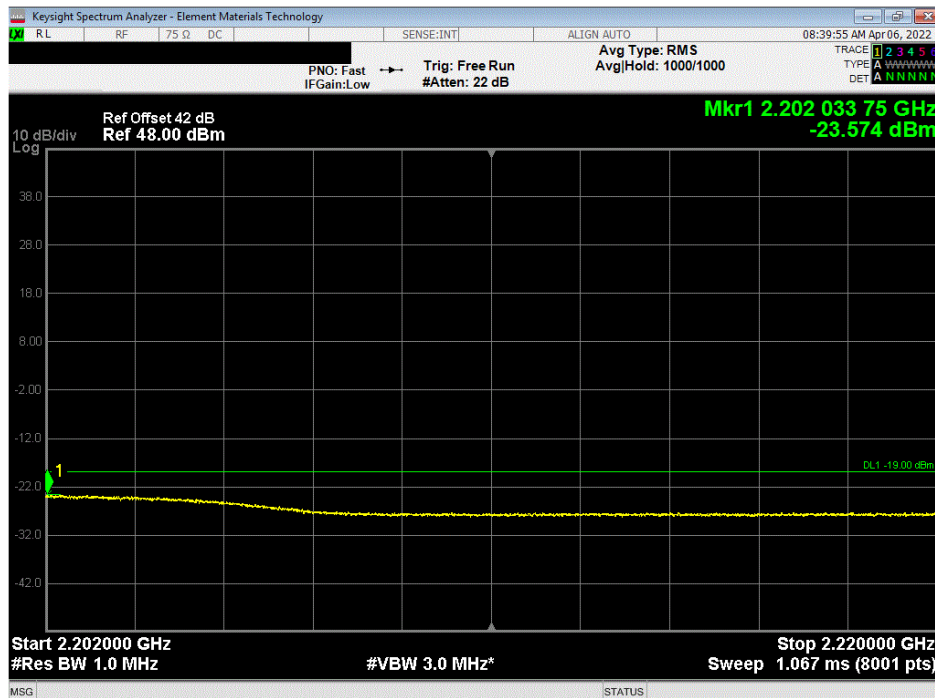


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.6	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.57	-19	Pass			

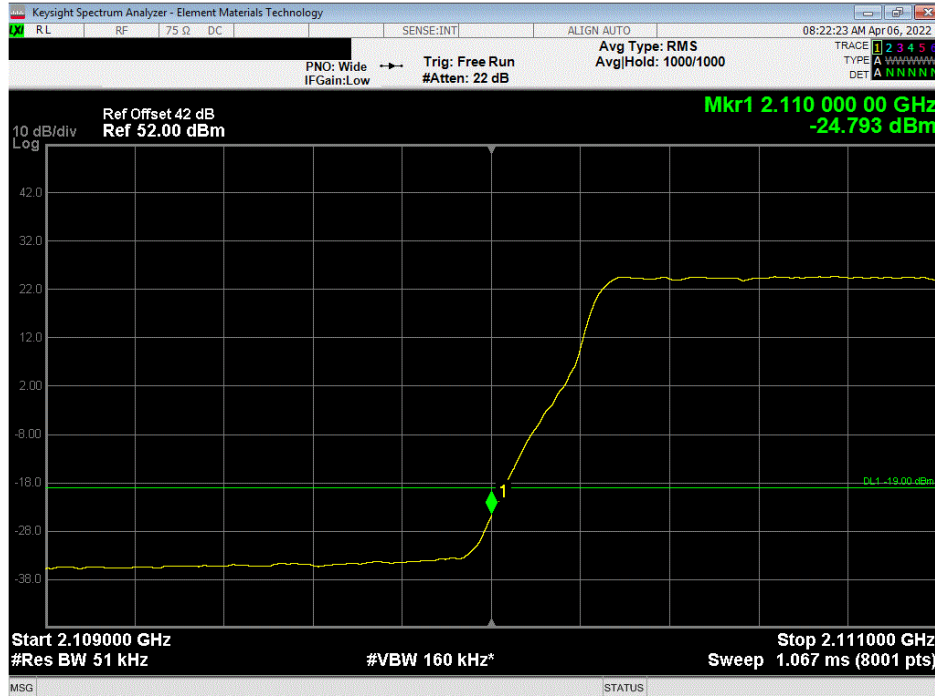


BAND EDGE COMPLIANCE

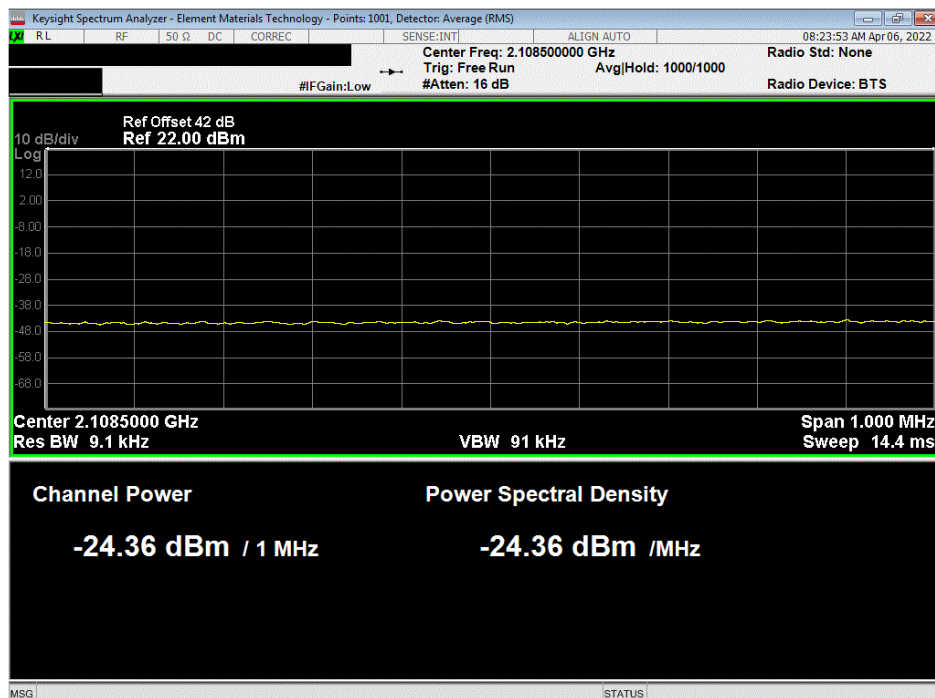


TMTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
1		-24.79		-19	Pass	



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range		Max Value (dBm)		Limit < (dBm)	Result	
2		-24.4		-19	Pass	

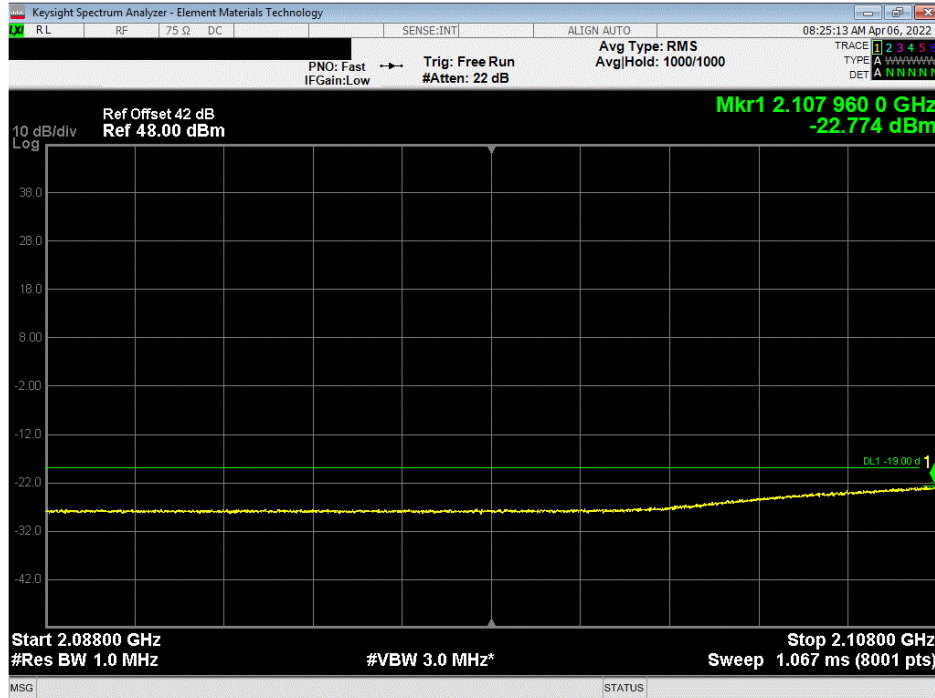


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
3		-22.77	-19	Pass		



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-23.43	-19	Pass		

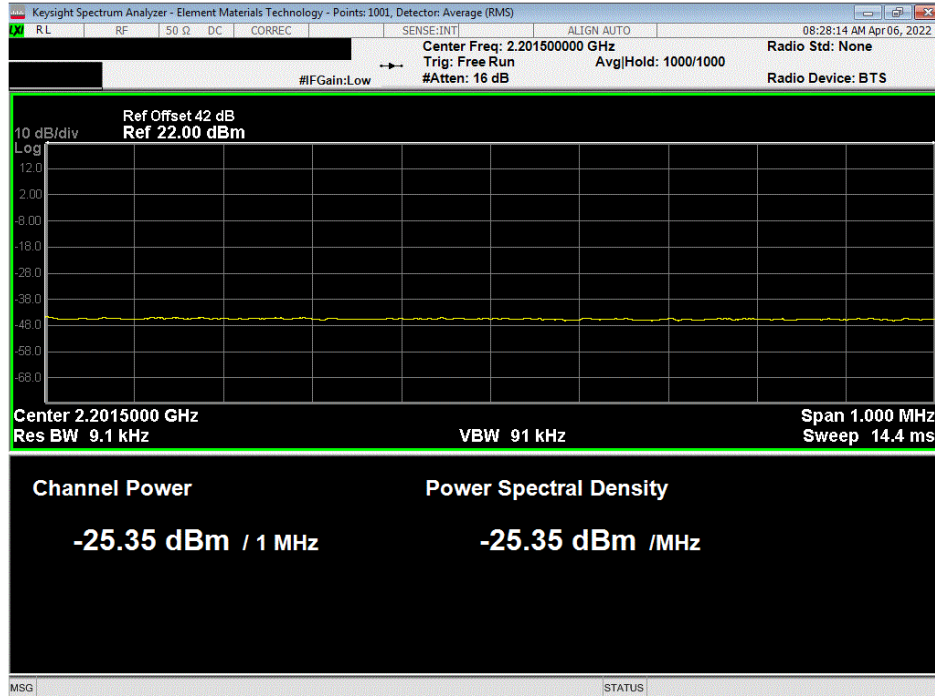


BAND EDGE COMPLIANCE

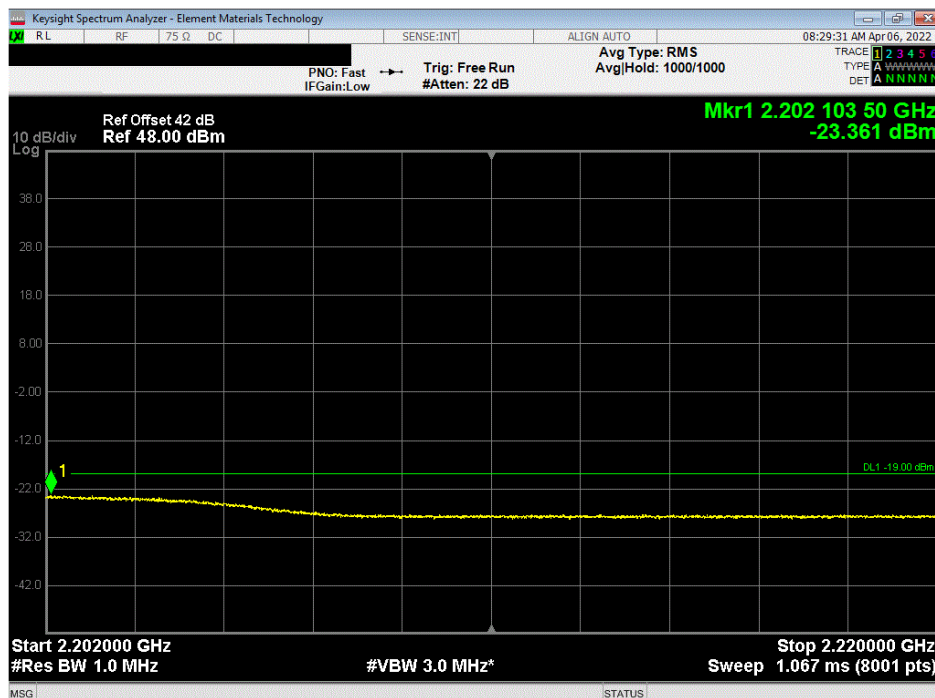


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.36	-19	Pass			

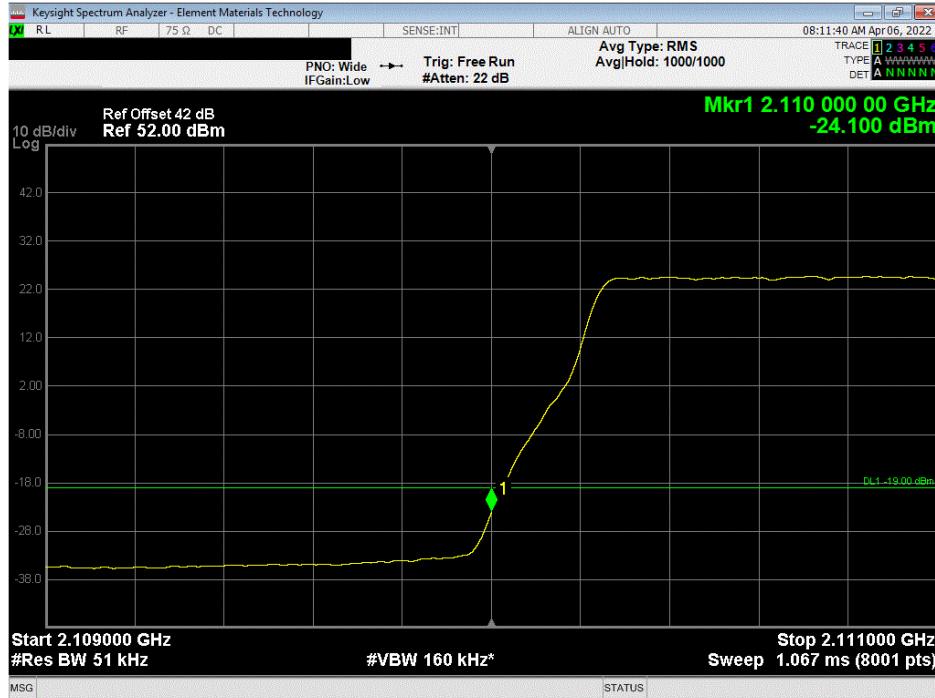


BAND EDGE COMPLIANCE

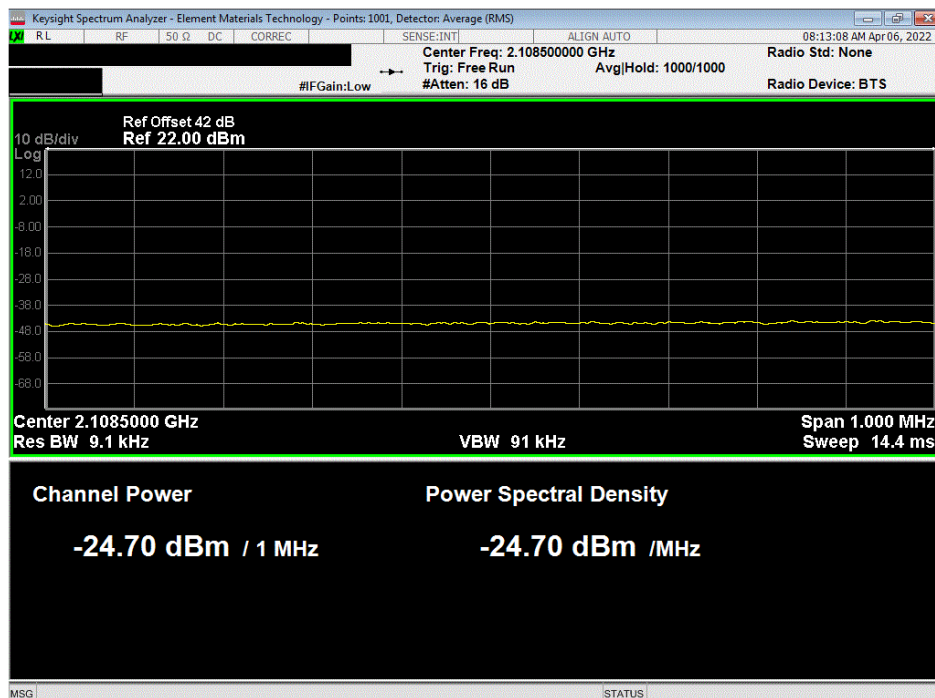


TMTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.1	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.7	-19	Pass			

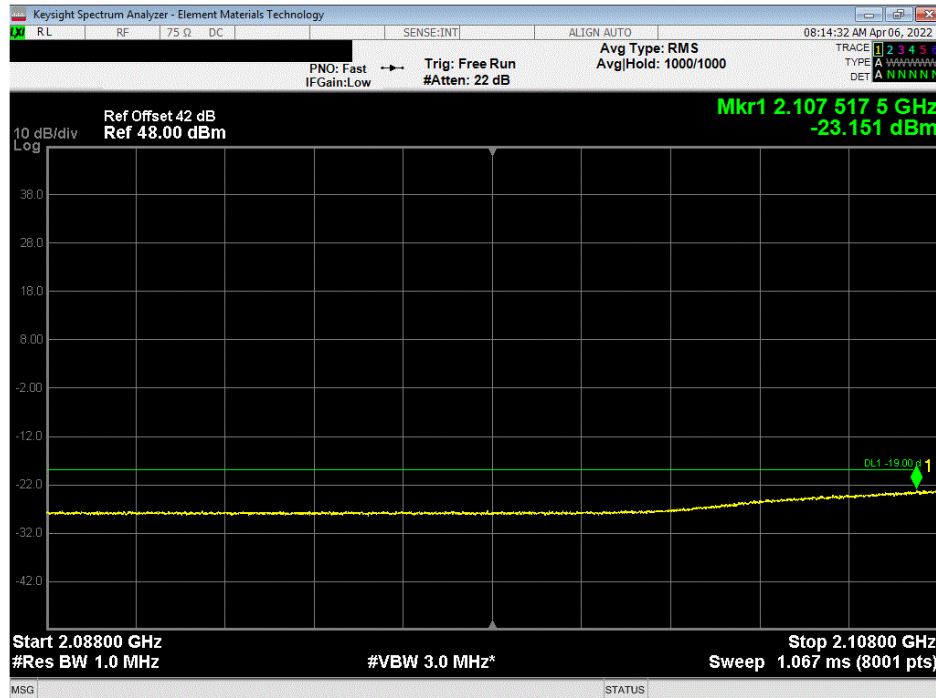


BAND EDGE COMPLIANCE

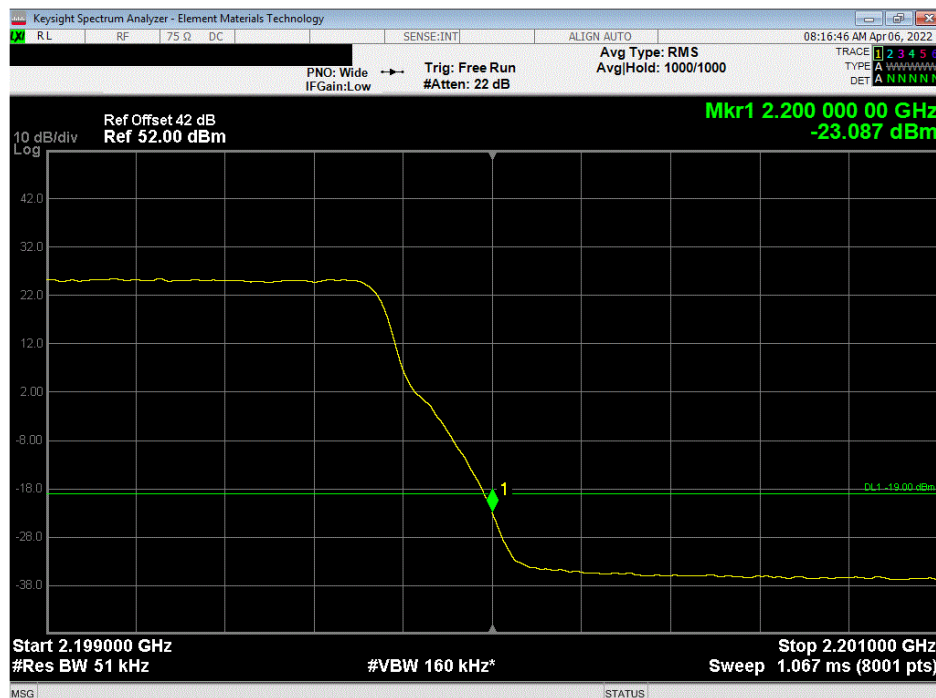


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.15	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.09	-19	Pass			

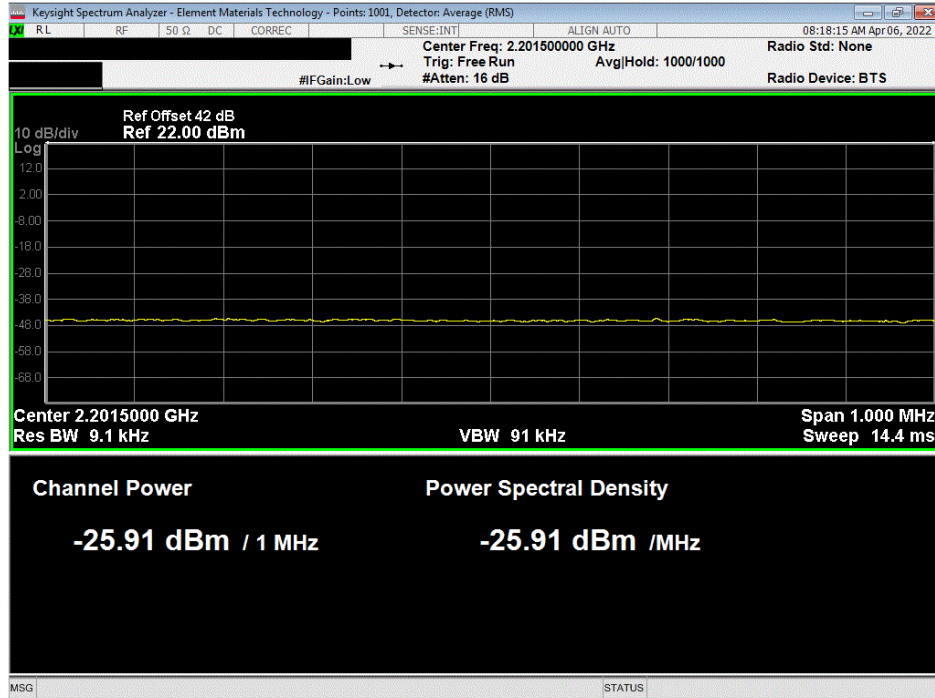


BAND EDGE COMPLIANCE

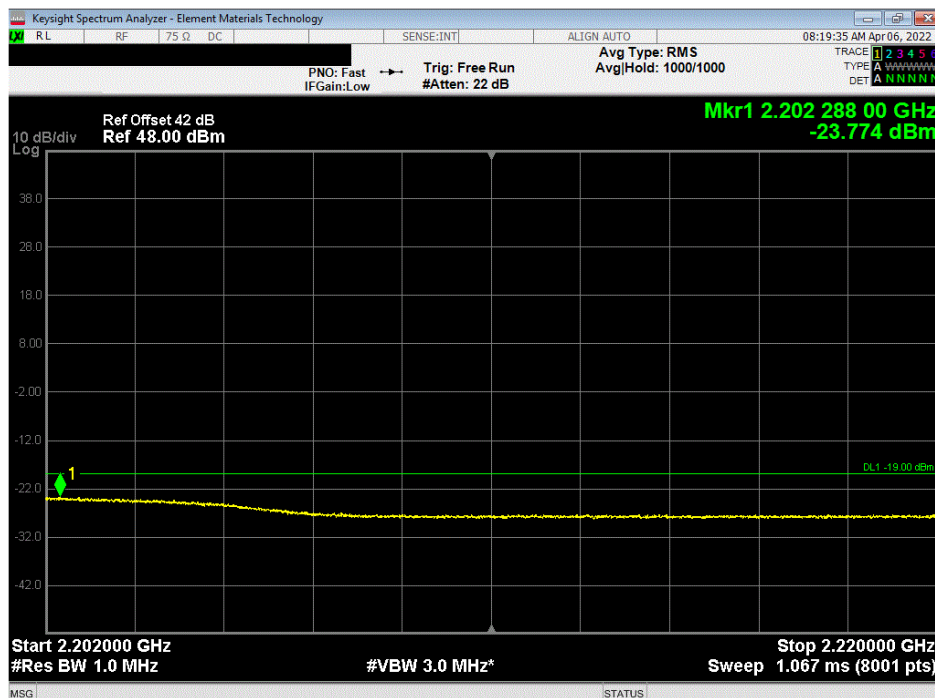


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.9	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.77	-19	Pass			

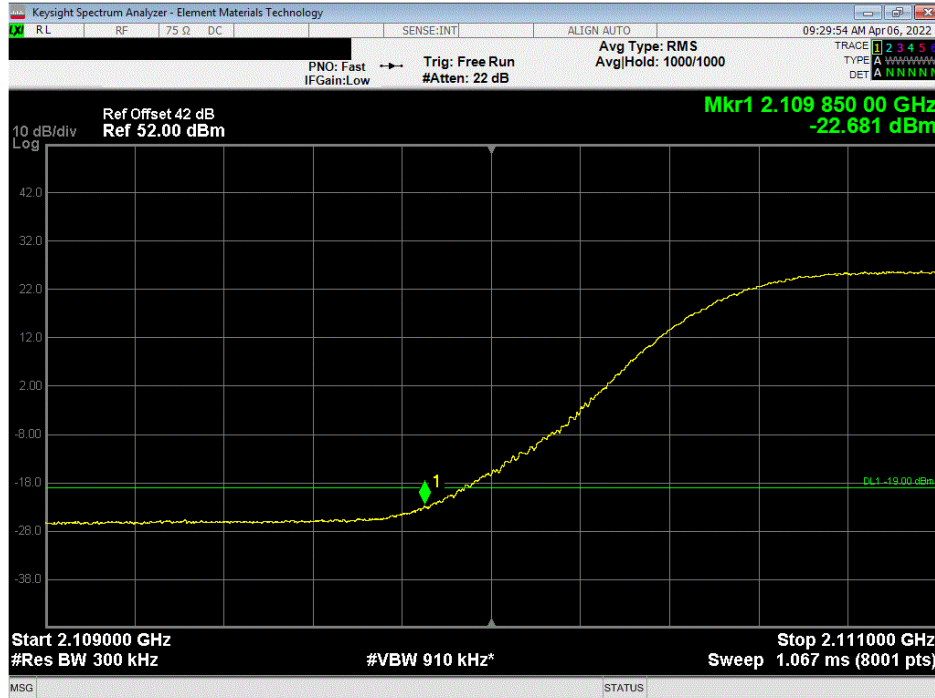


BAND EDGE COMPLIANCE

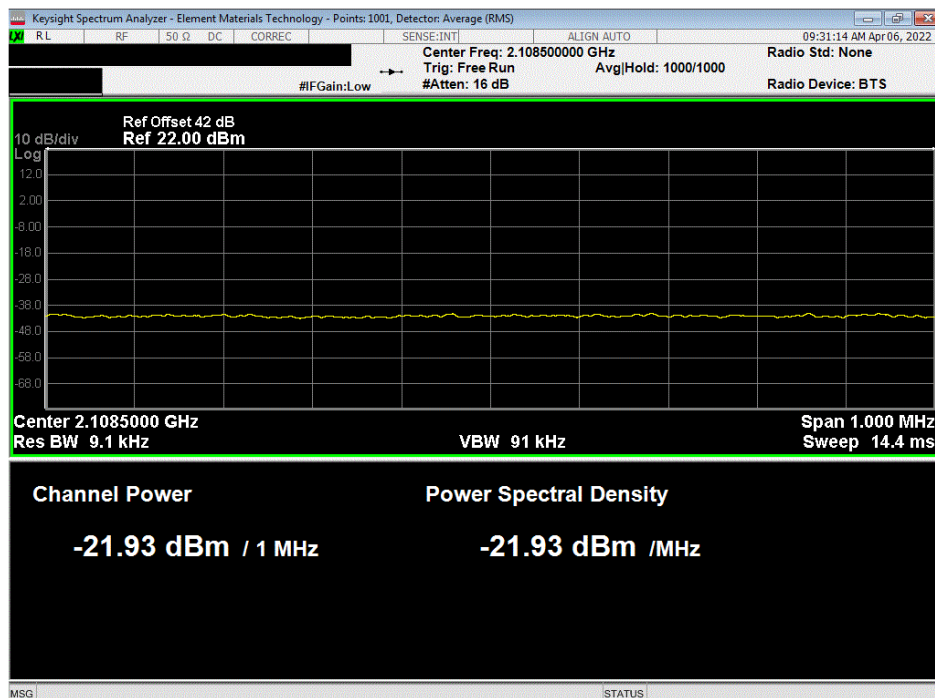


TMTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.68	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.9	-19	Pass			

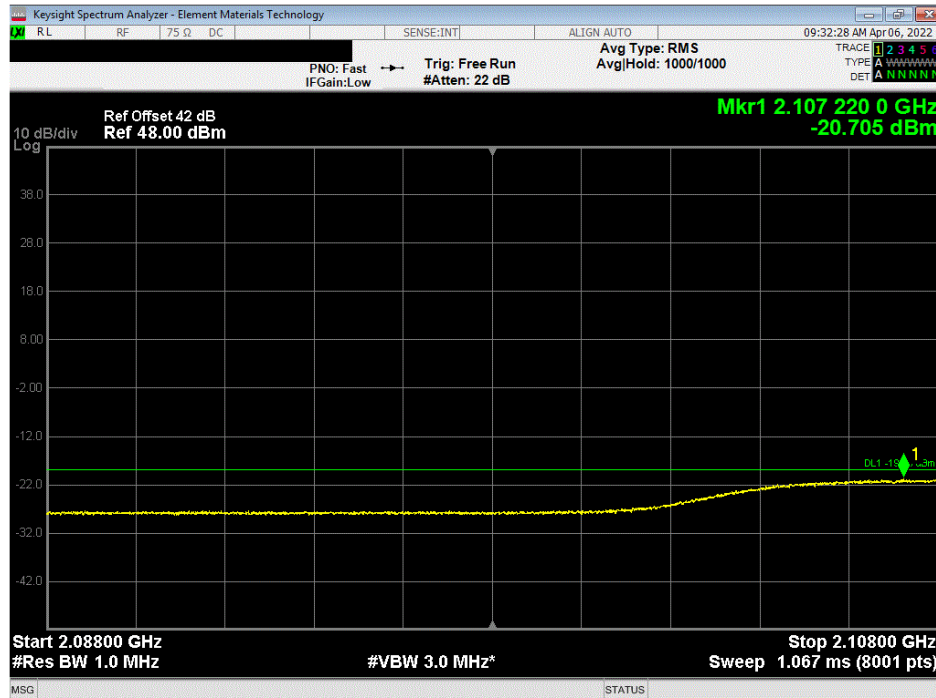


BAND EDGE COMPLIANCE

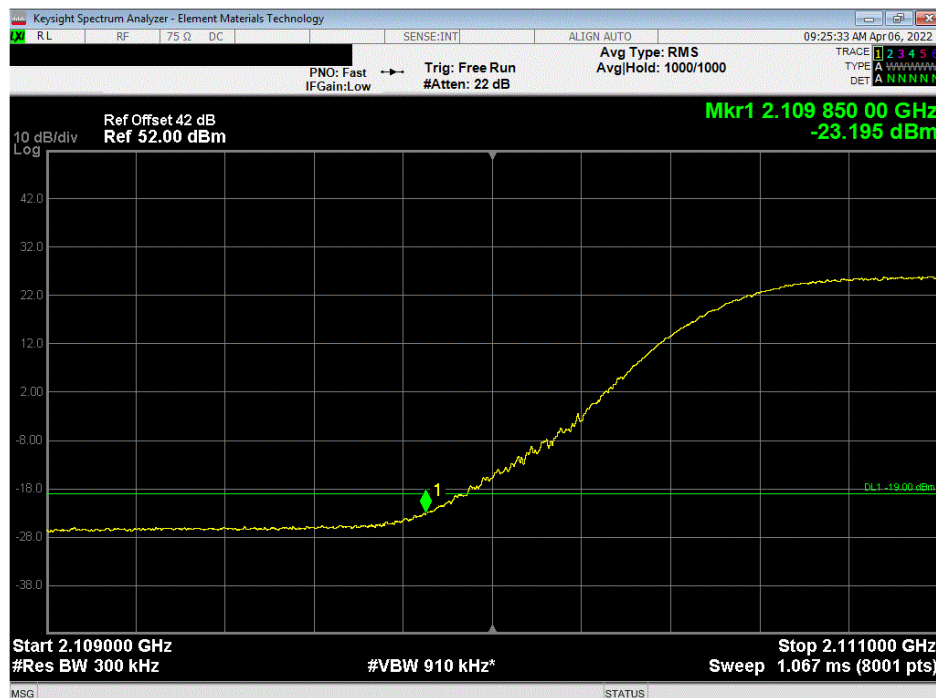


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.71	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.2	-19	Pass			

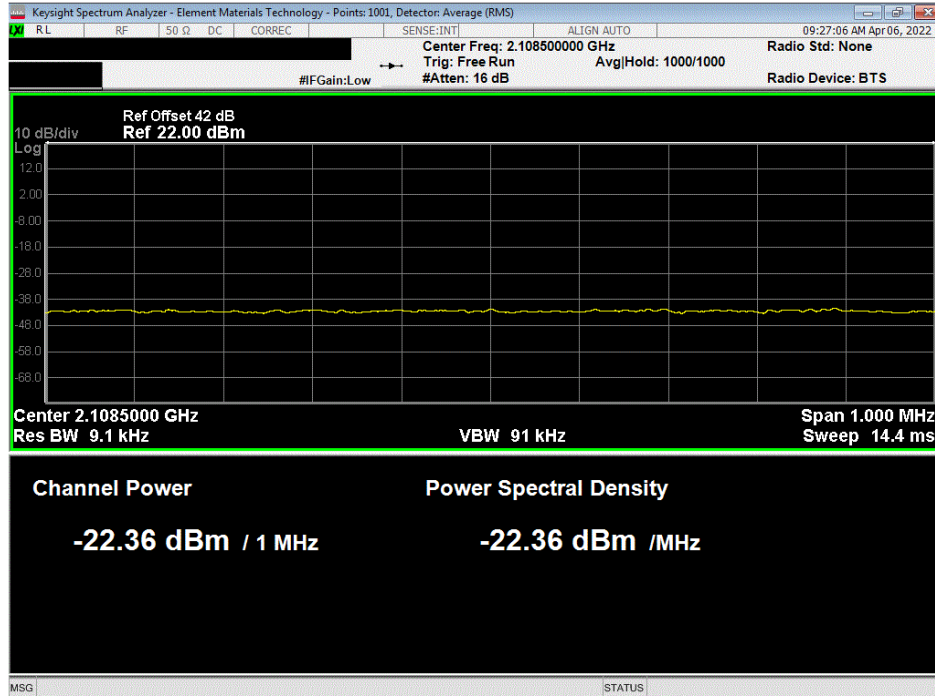


BAND EDGE COMPLIANCE

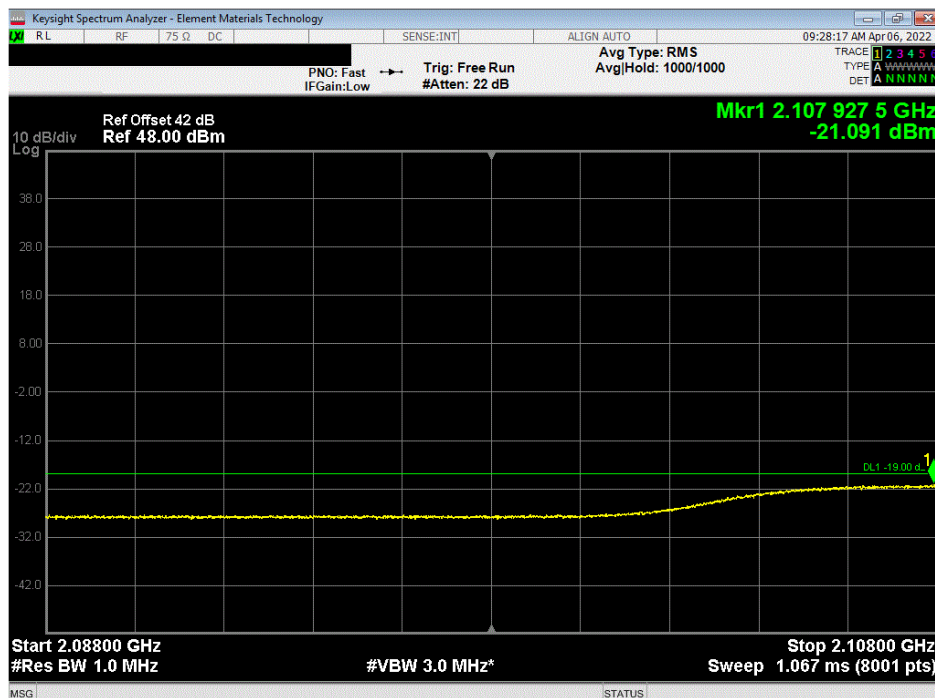


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.09	-19	Pass			

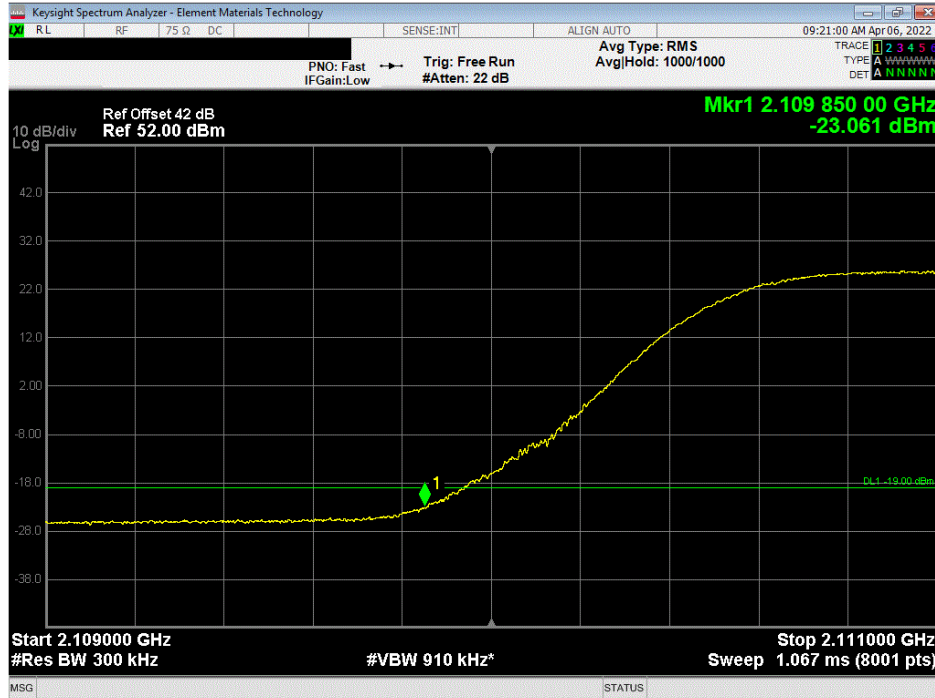


BAND EDGE COMPLIANCE

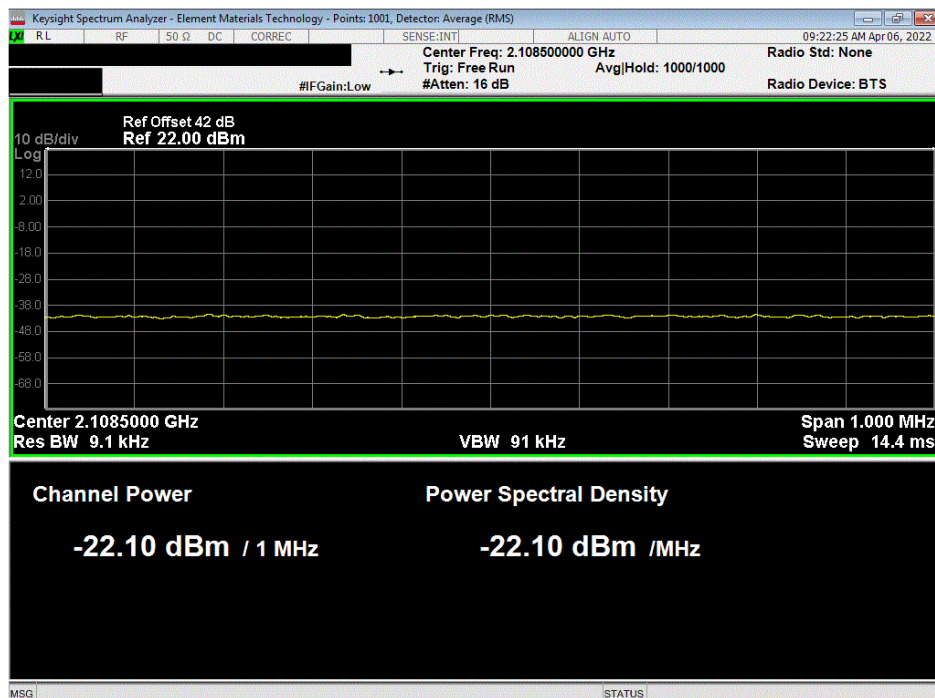


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-23.06	-19	Pass		



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
2		-22.1	-19	Pass		

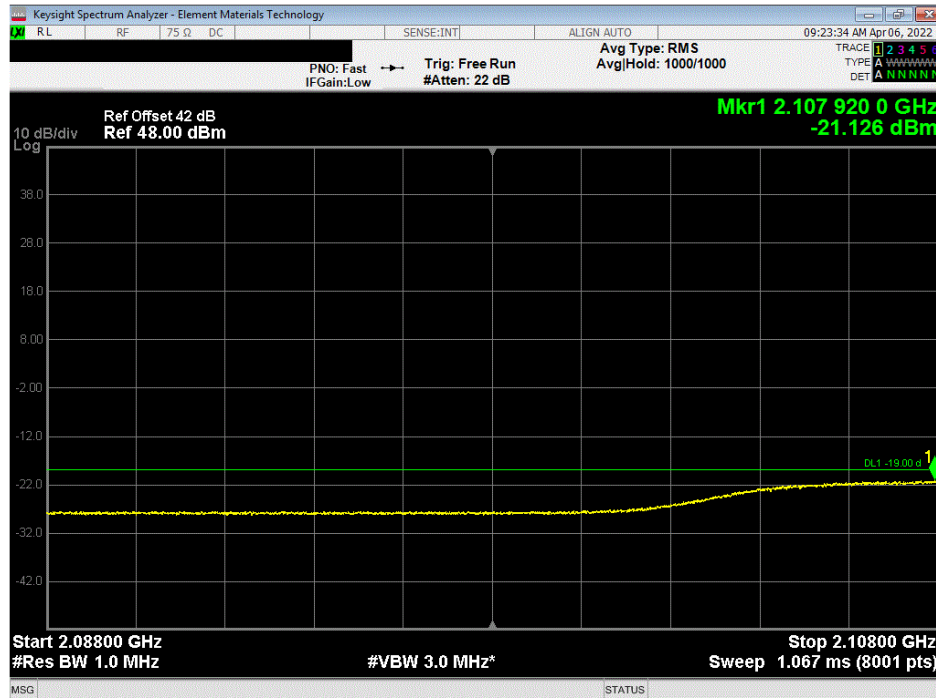


BAND EDGE COMPLIANCE

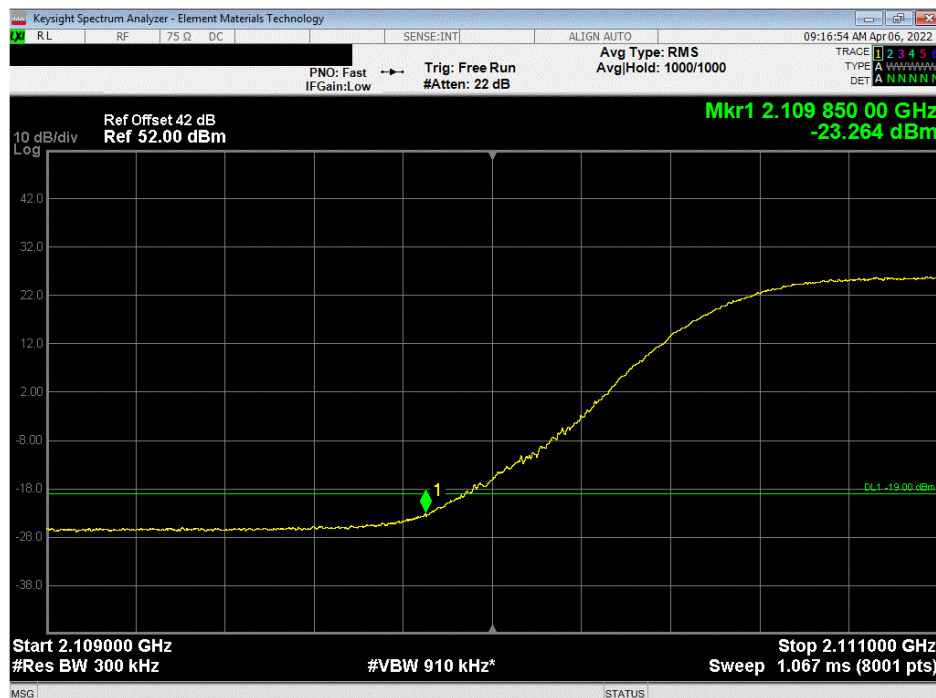


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.13	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.26	-19	Pass			

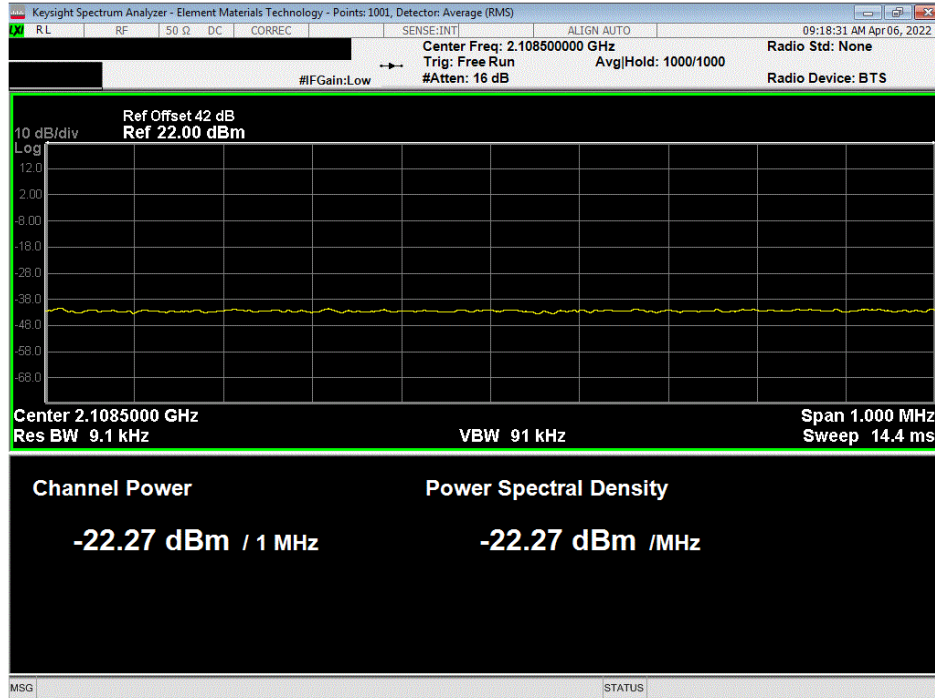


BAND EDGE COMPLIANCE

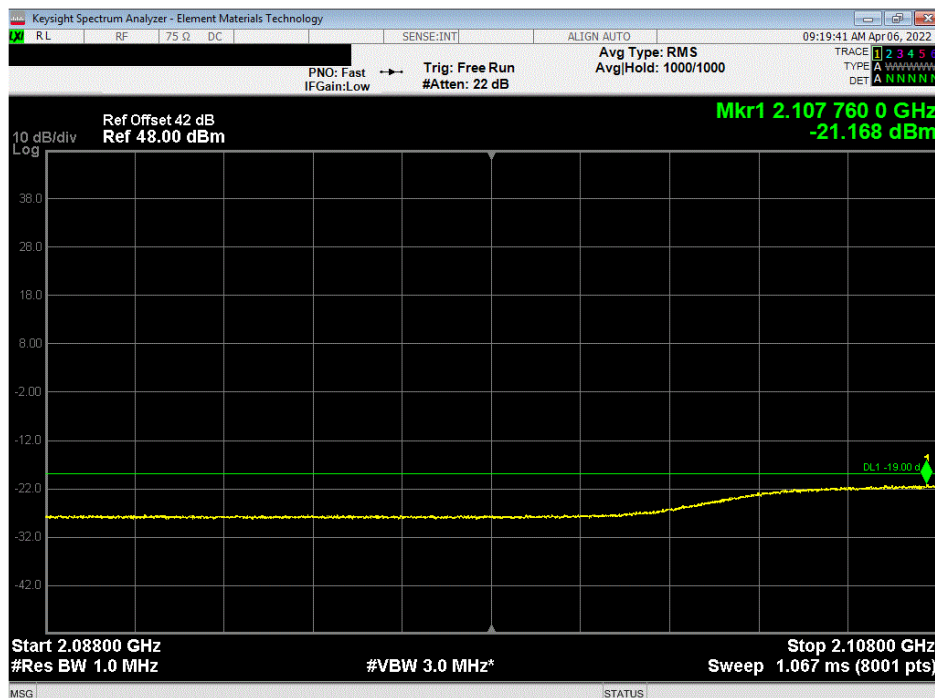


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.3	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.17	-19	Pass			

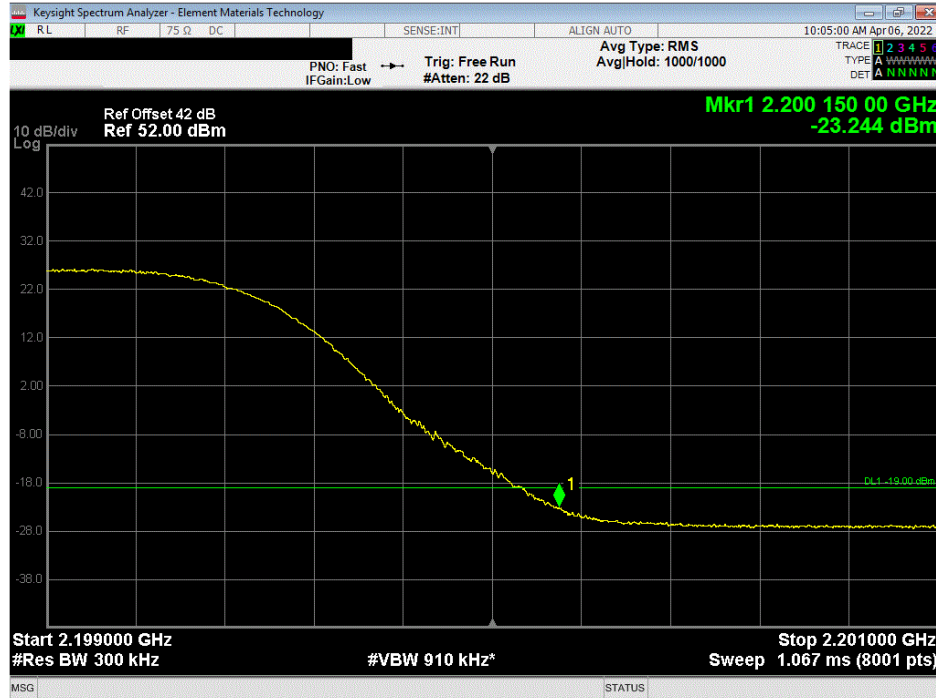


BAND EDGE COMPLIANCE

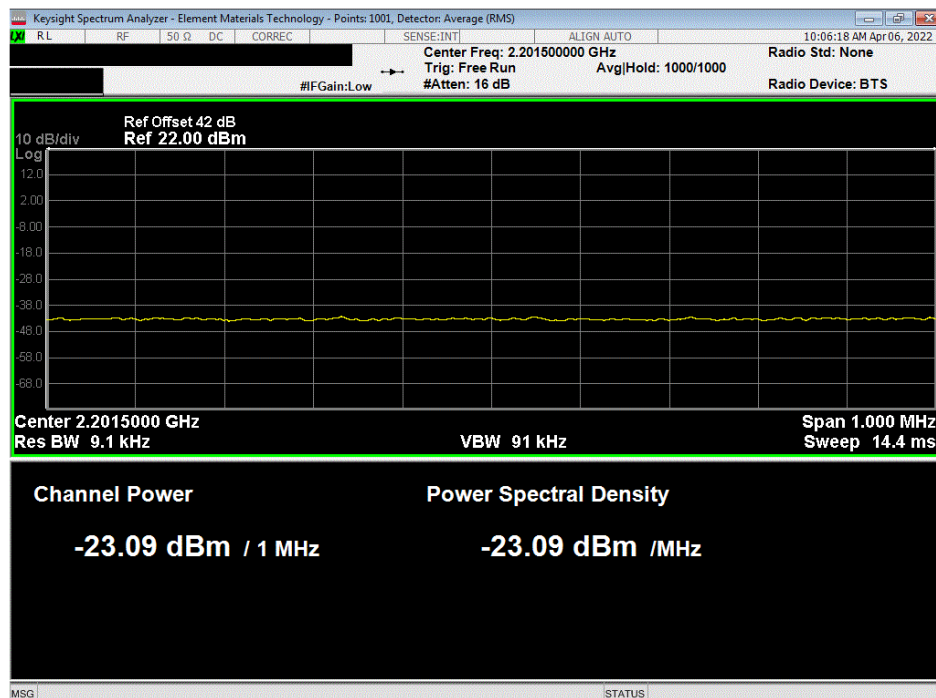


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.24	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.1	-19	Pass			

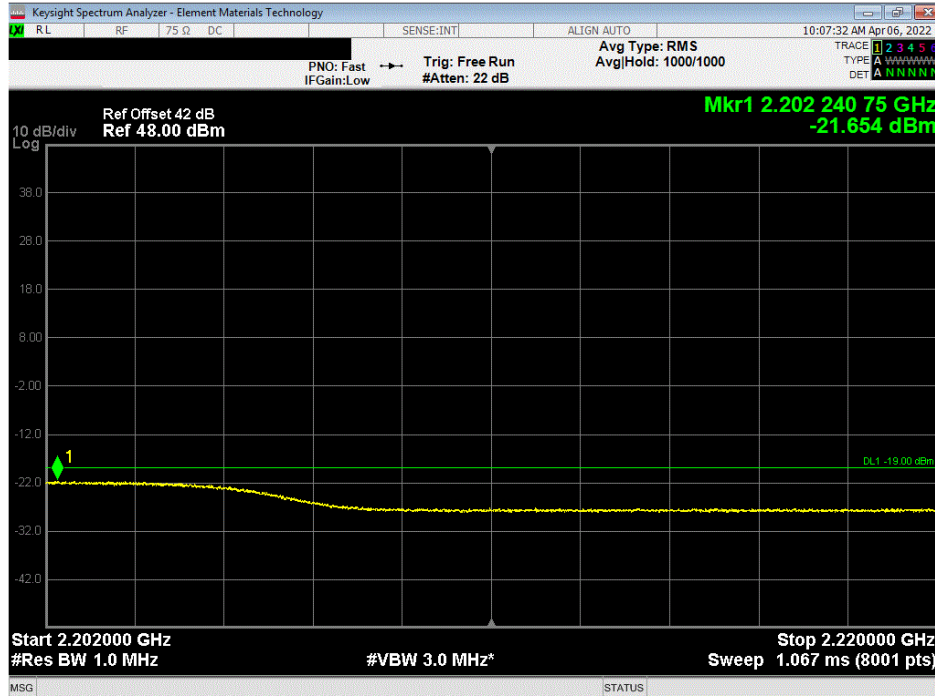


BAND EDGE COMPLIANCE

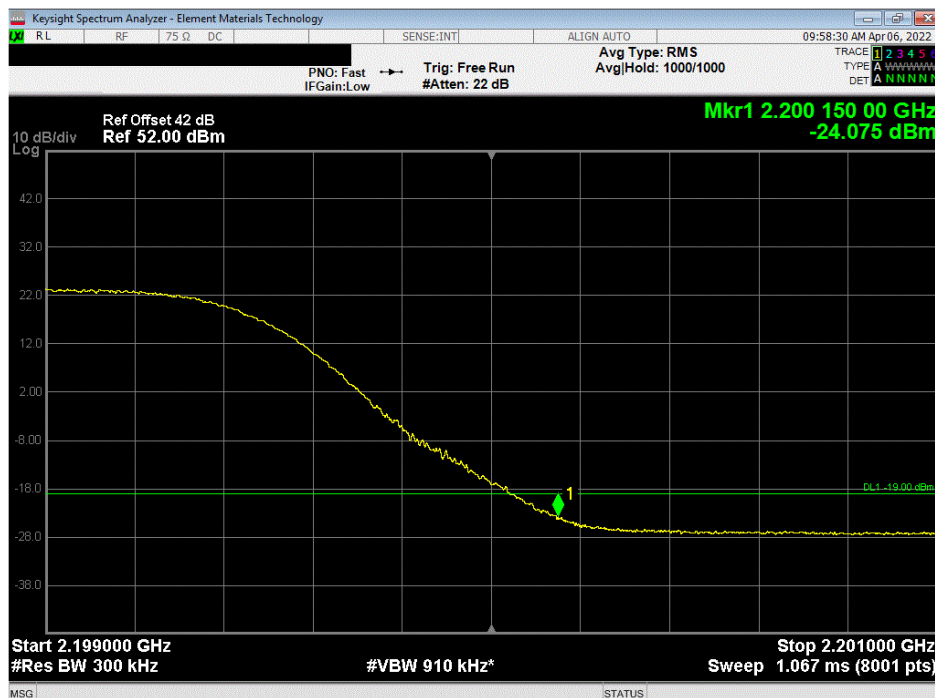


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
3		-21.65	-19	Pass		



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result		
1		-24.08	-19	Pass		

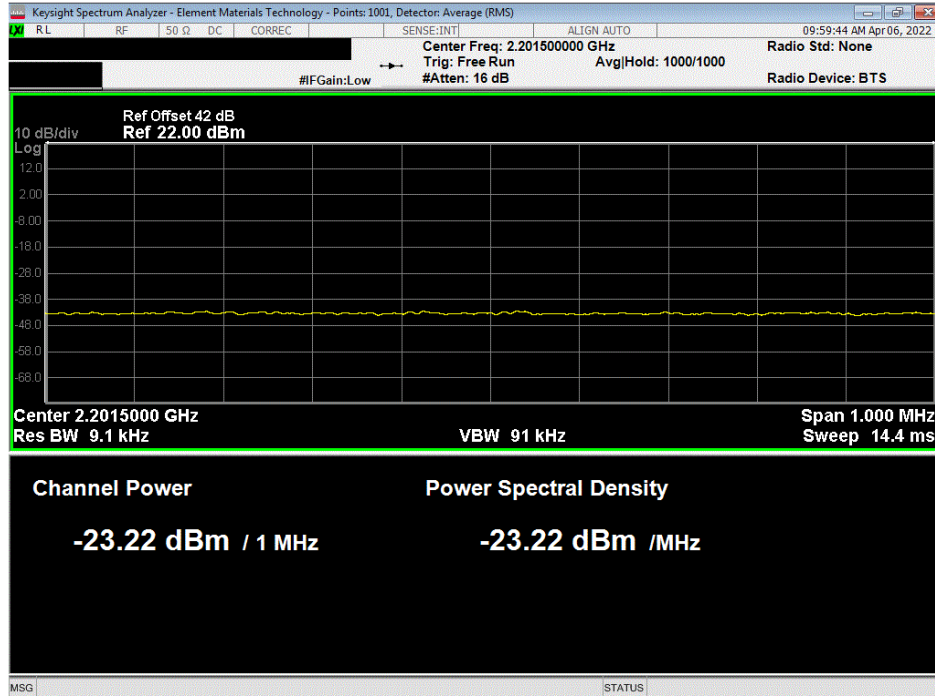


BAND EDGE COMPLIANCE

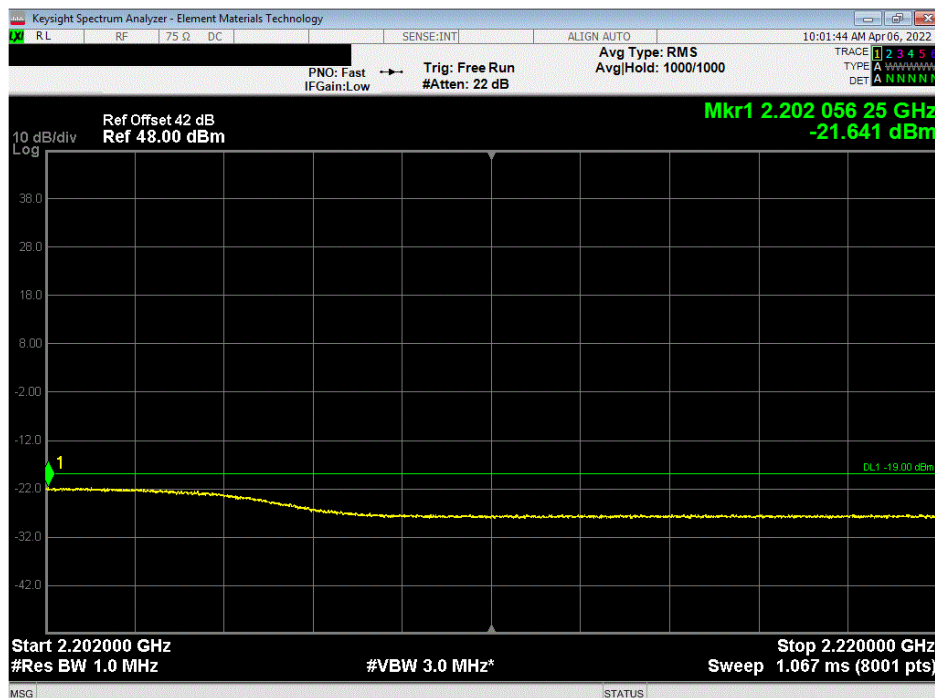


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.64	-19	Pass			

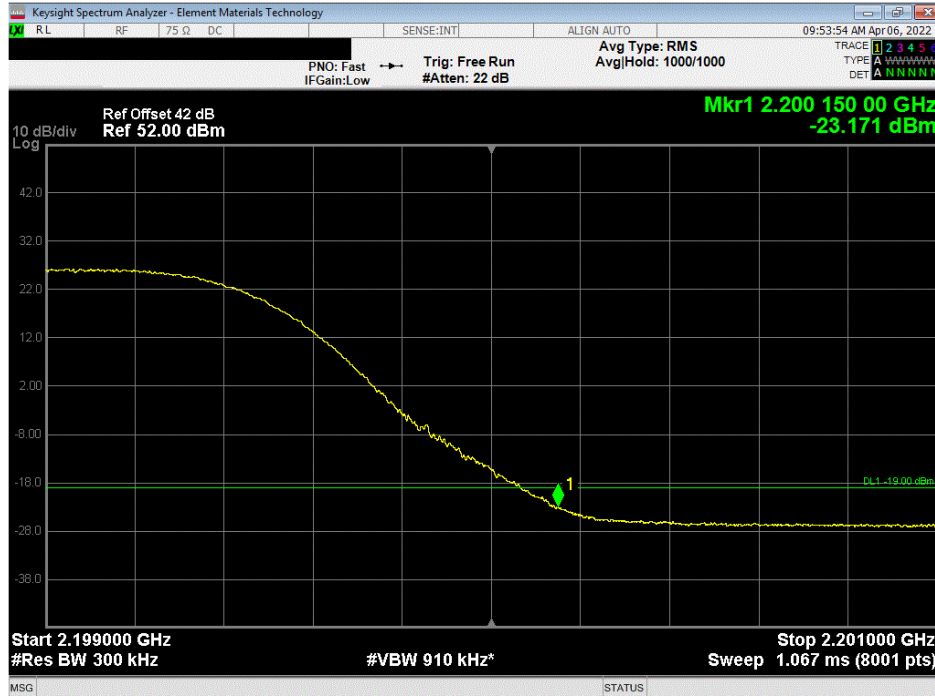


BAND EDGE COMPLIANCE

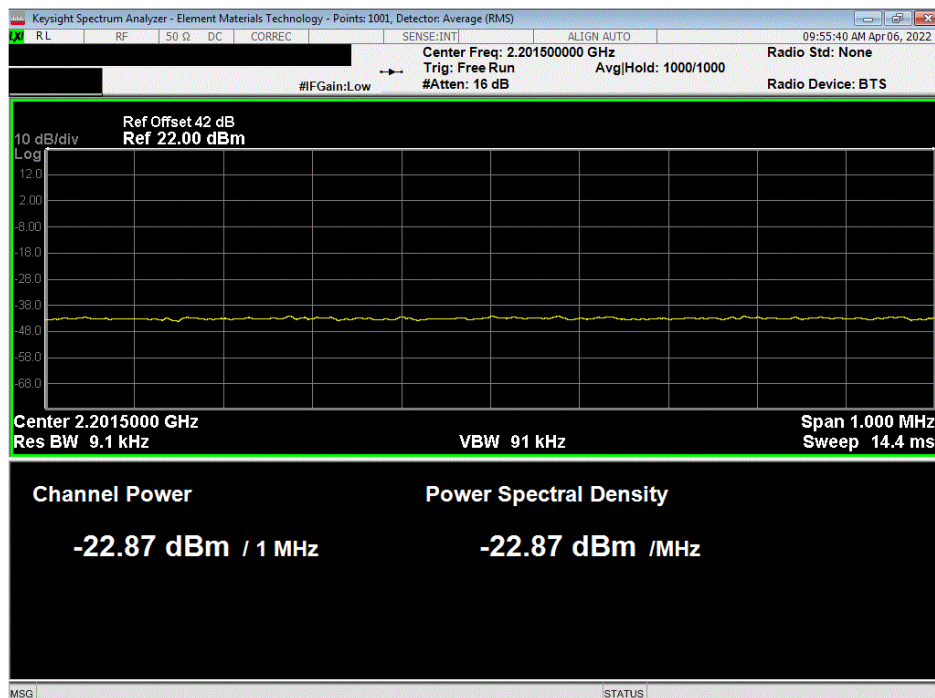


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.17	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.9	-19	Pass			

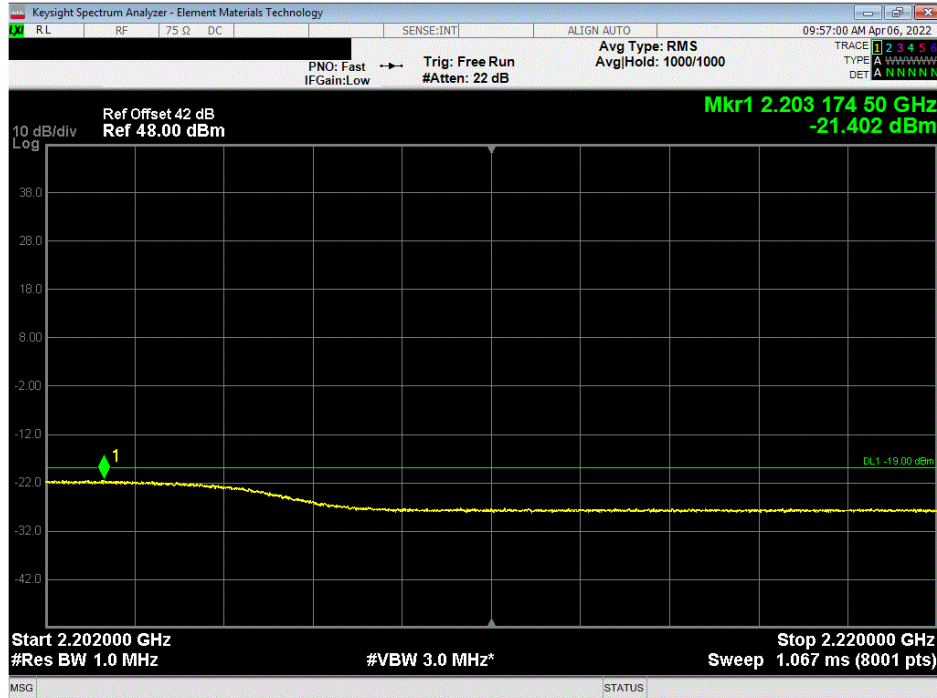


BAND EDGE COMPLIANCE

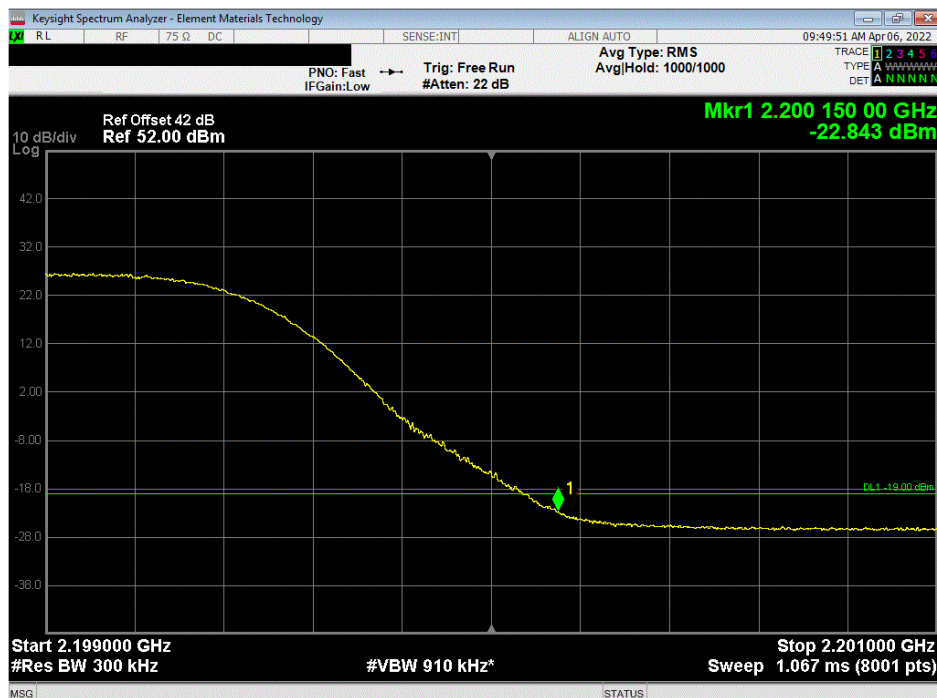


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.84	-19	Pass			

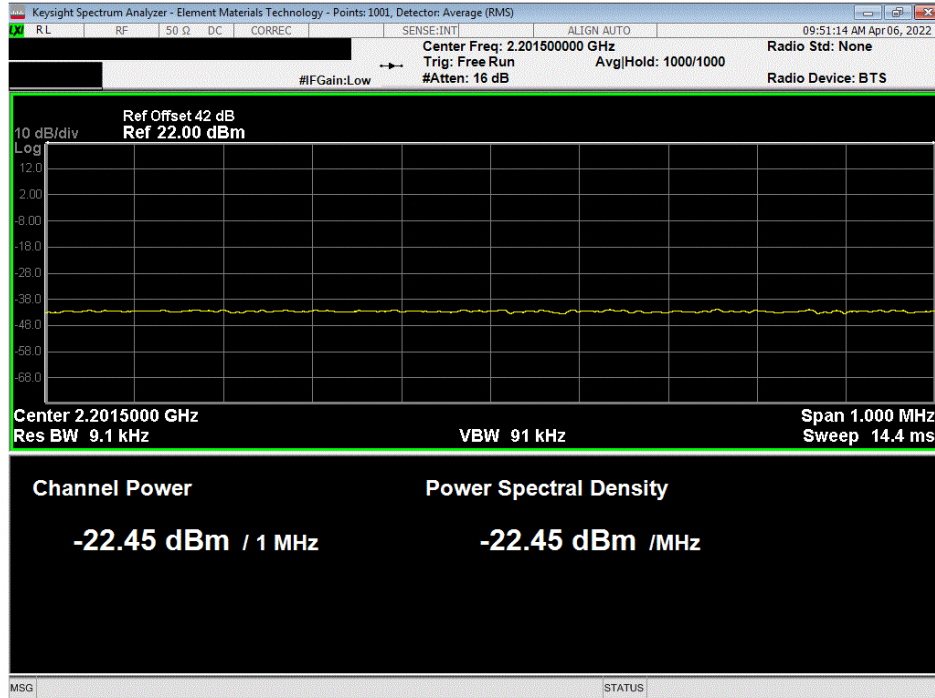


BAND EDGE COMPLIANCE

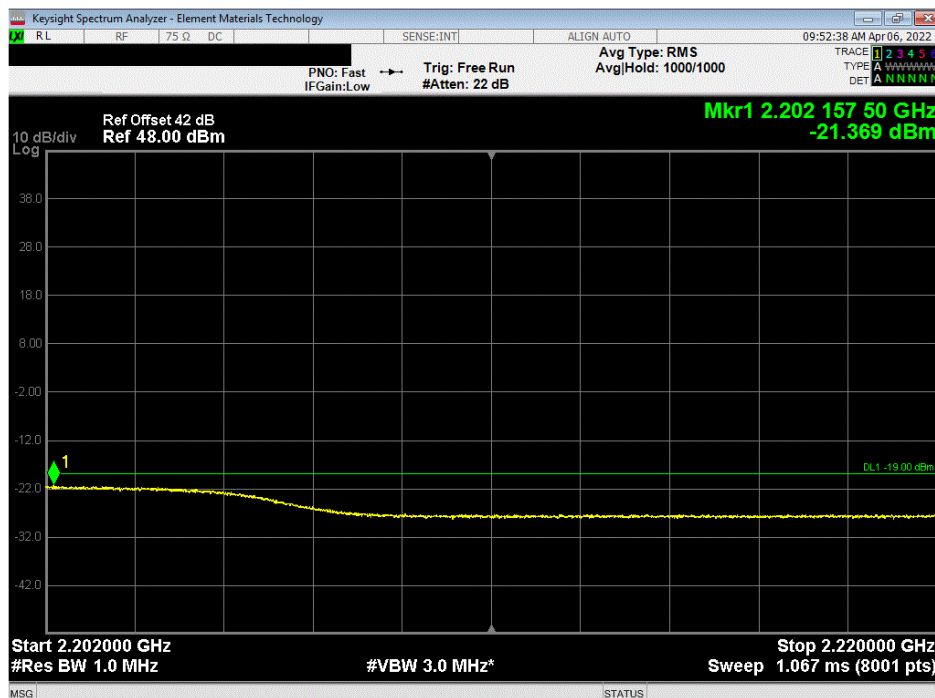


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.37	-19	Pass			



BAND EDGE COMPLIANCE



TestX 2021.12.14.1 XMI 2022.02.07.0

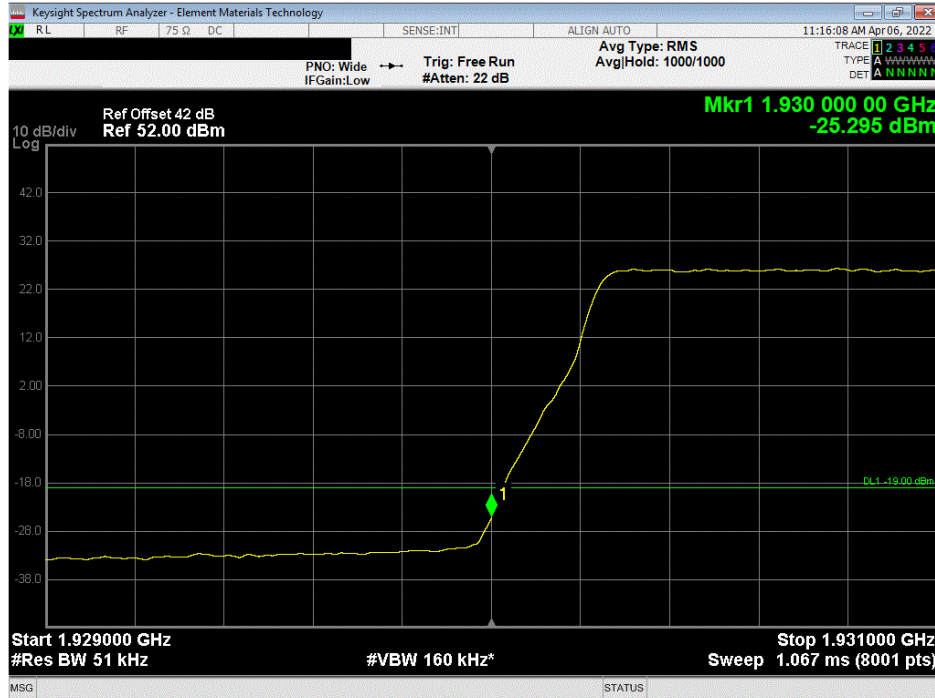
EUT: AHFII Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 6-Apr-22	
Customer: Nokia of America Corporation		Temperature: 22.6 °C	
Attendees: Mitchell Hill		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan		Power: 54 VDC	
		Job Site: TX09	
TEST SPECIFICATIONS			
FCC 24E:2022		Test Method	
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015	
FCC 27:2022		RSS-133 Issue 6:2013+A1:2018	
RSS-139 Issue 3:2015		ANSI C63.26:2015	
RSS-170 Issue 3:2015		RSS-139 Issue 3:2015	
		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carriers are operated at maximum power (~40W/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (40W for AWS band carrier + 80W for PCS band carriers). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Frequency Range	Max Value (dBm)
			Limit < (dBm)
			Result
Multicarrier Multiband			
Port 1			
Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier)			
QPSK Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.3
	PCS Carrier 1, 1932.5 MHz	2	-22.1
	PCS Carrier 1, 1932.5 MHz	3	-21.6
	AWS Single Carrier, 2197.5 MHz	1	-29.7
	AWS Single Carrier, 2197.5 MHz	2	-25.3
	AWS Single Carrier, 2197.5 MHz	3	-23.2
16-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-26.6
	PCS Carrier 1, 1932.5 MHz	2	-22.8
	PCS Carrier 1, 1932.5 MHz	3	-21.9
	AWS Single Carrier, 2197.5 MHz	1	-29.5
	AWS Single Carrier, 2197.5 MHz	2	-25.7
	AWS Single Carrier, 2197.5 MHz	3	-23.3
64-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.4
	PCS Carrier 1, 1932.5 MHz	2	-21.8
	PCS Carrier 1, 1932.5 MHz	3	-21.6
	AWS Single Carrier, 2197.5 MHz	1	-28.8
	AWS Single Carrier, 2197.5 MHz	2	-25.2
	AWS Single Carrier, 2197.5 MHz	3	-23.3
256-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.9
	PCS Carrier 1, 1932.5 MHz	2	-21.6
	PCS Carrier 1, 1932.5 MHz	3	-21.5
	AWS Single Carrier, 2197.5 MHz	1	-29.1
	AWS Single Carrier, 2197.5 MHz	2	-25.2
	AWS Single Carrier, 2197.5 MHz	3	-23.3

BAND EDGE COMPLIANCE

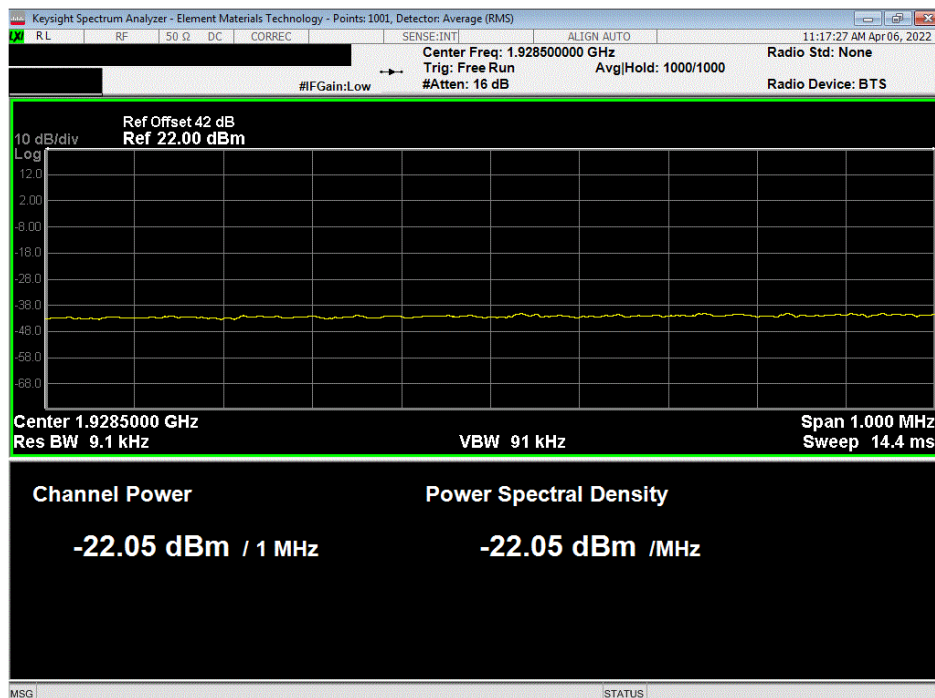


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.3	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.1	-19	Pass			

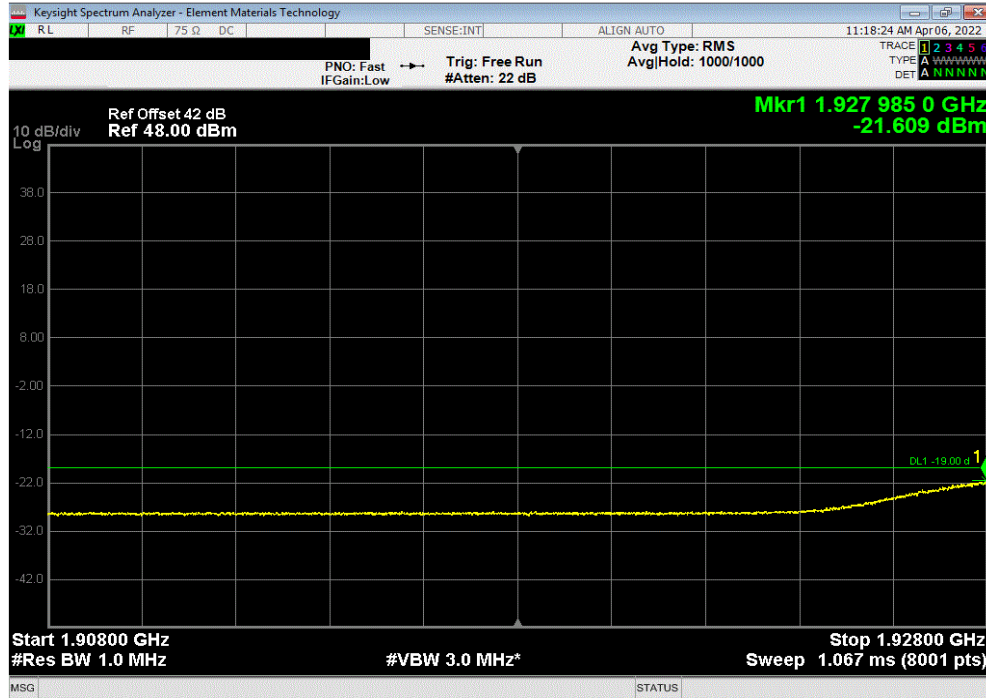


BAND EDGE COMPLIANCE

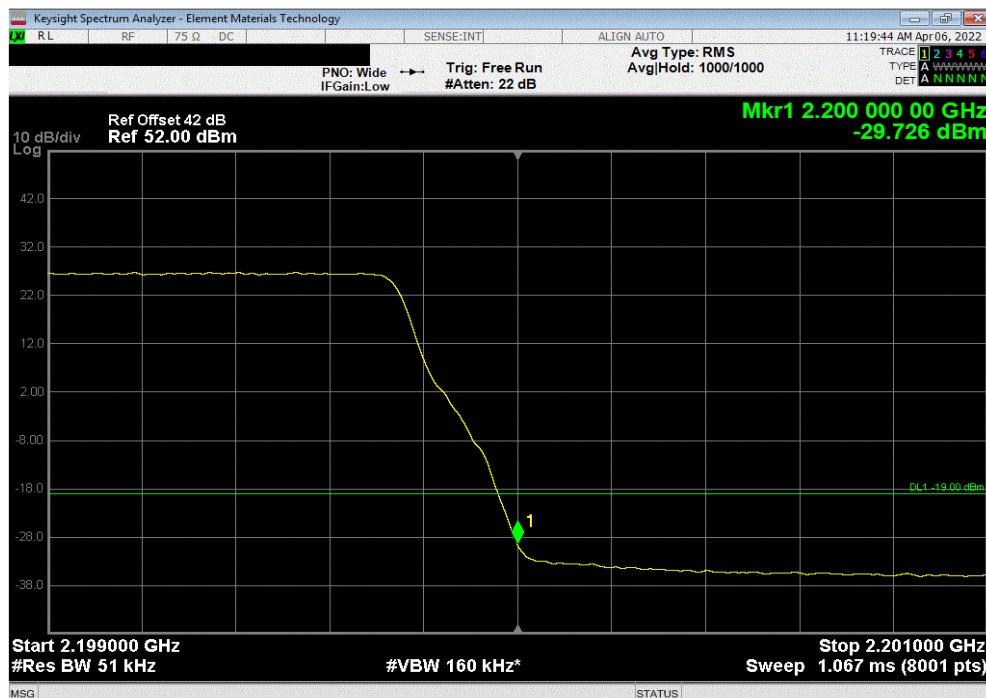


TbTtx 2021.12.14.1 XMt 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.61	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.73	-19	Pass			

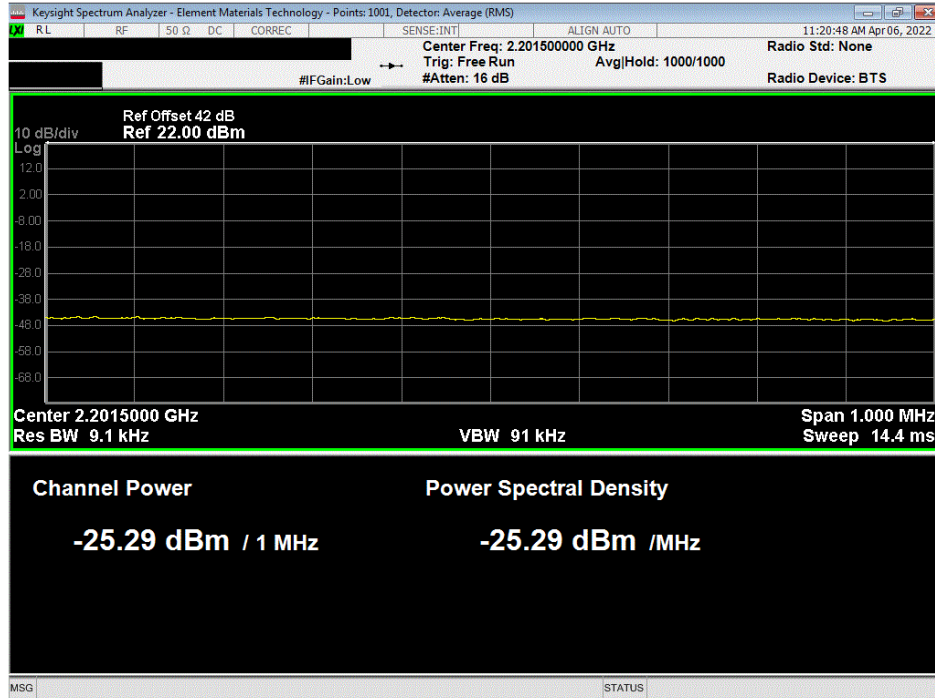


BAND EDGE COMPLIANCE

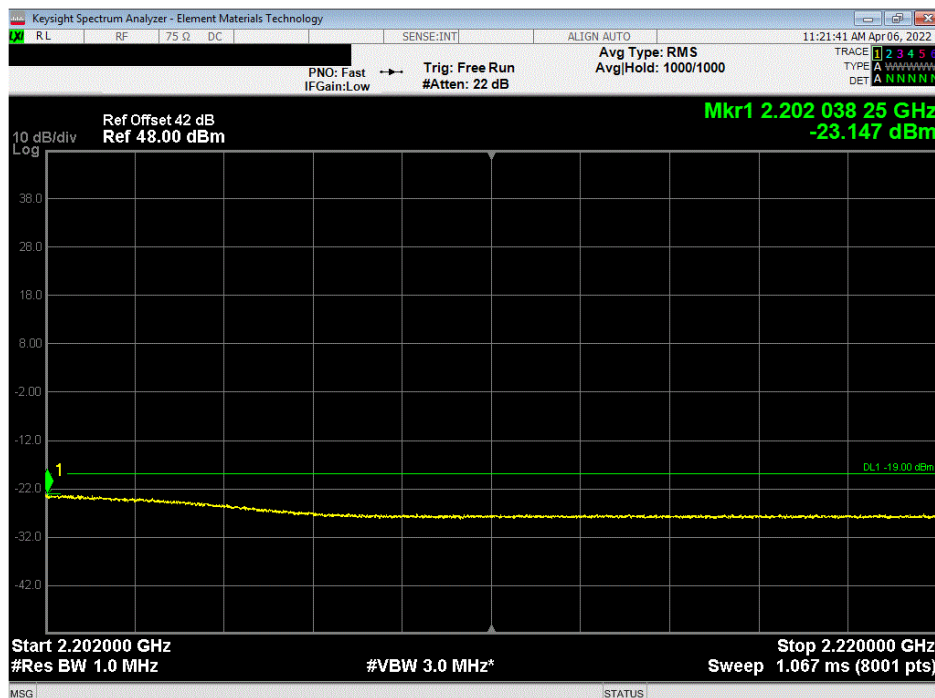


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.3	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.15	-19	Pass			

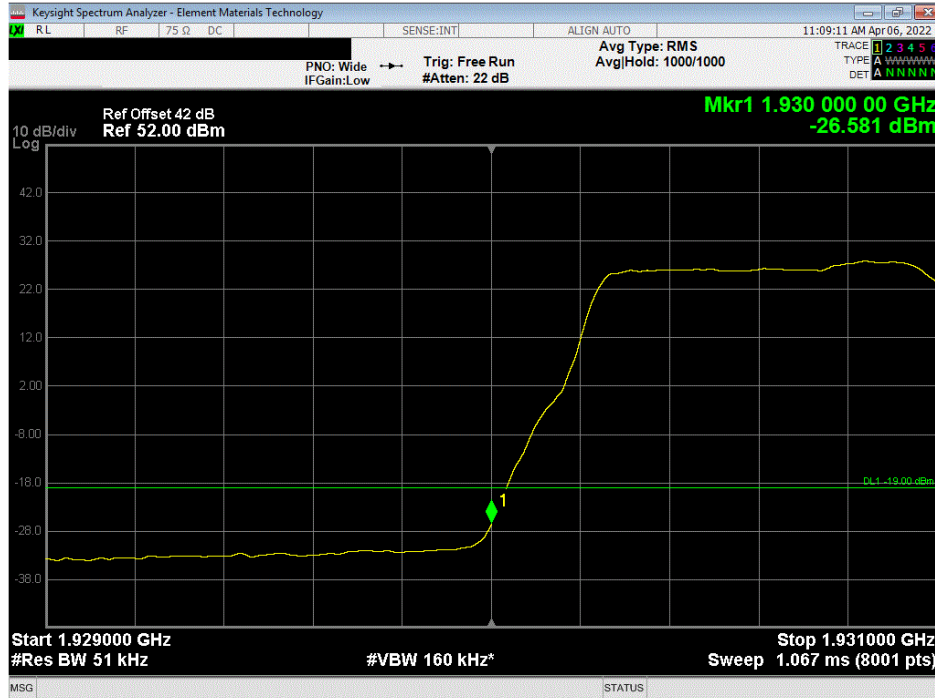


BAND EDGE COMPLIANCE

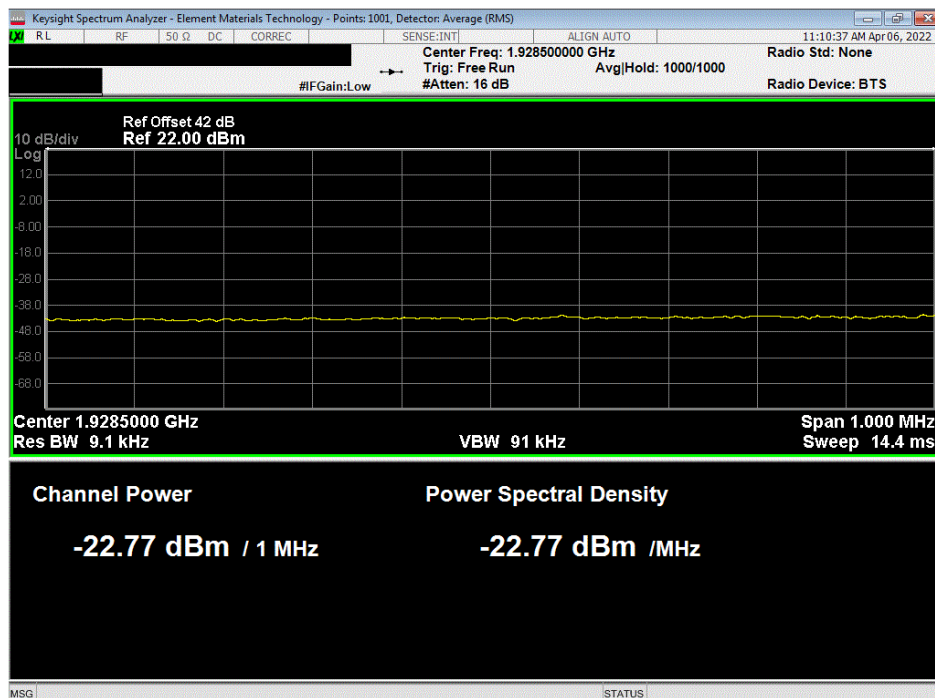


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.58	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.8	-19	Pass			

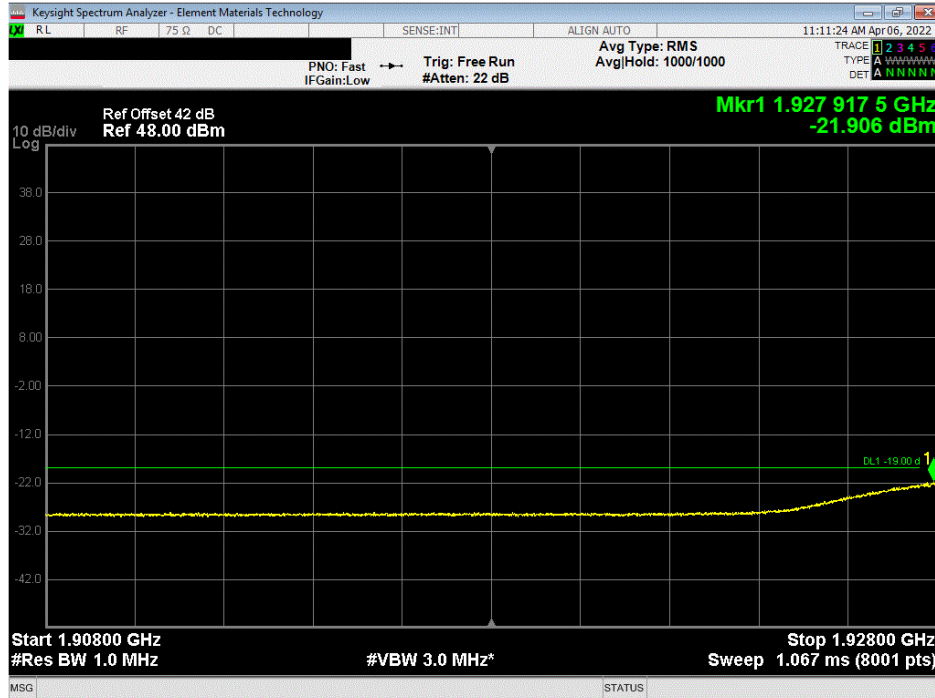


BAND EDGE COMPLIANCE

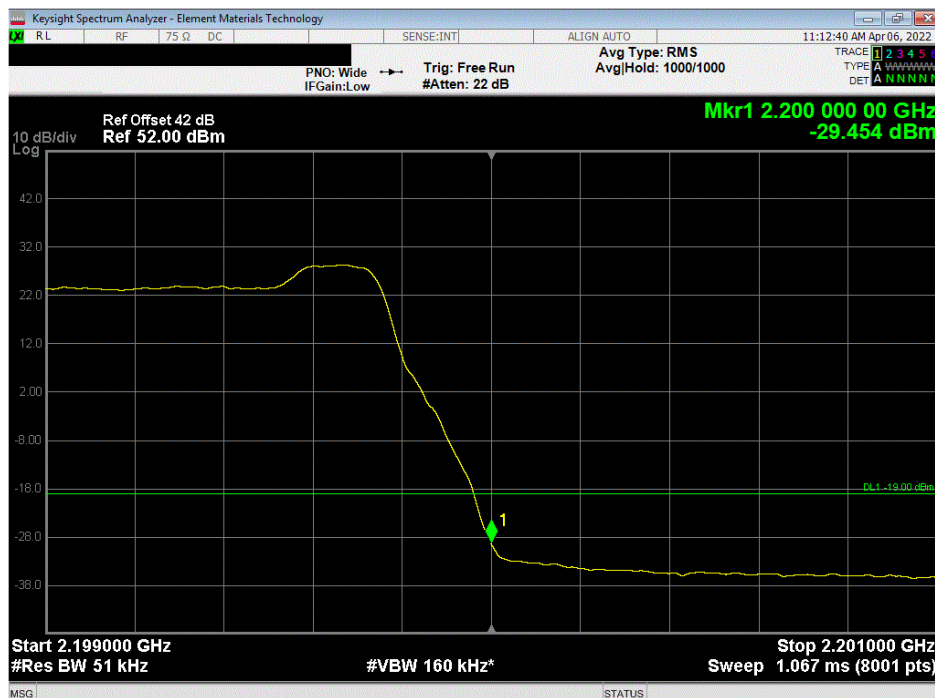


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.91	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.45	-19	Pass			

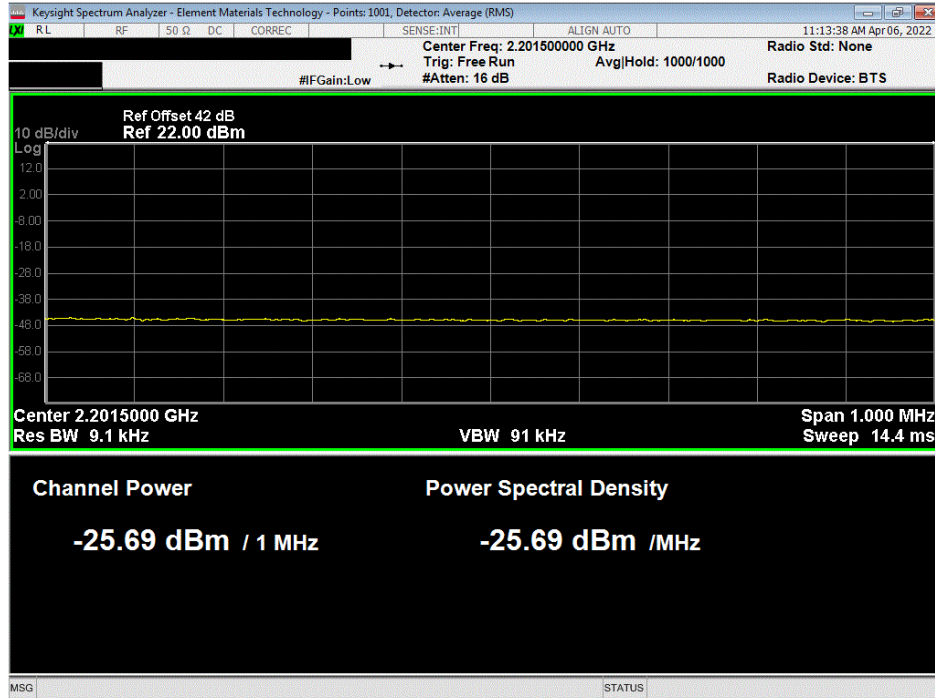


BAND EDGE COMPLIANCE

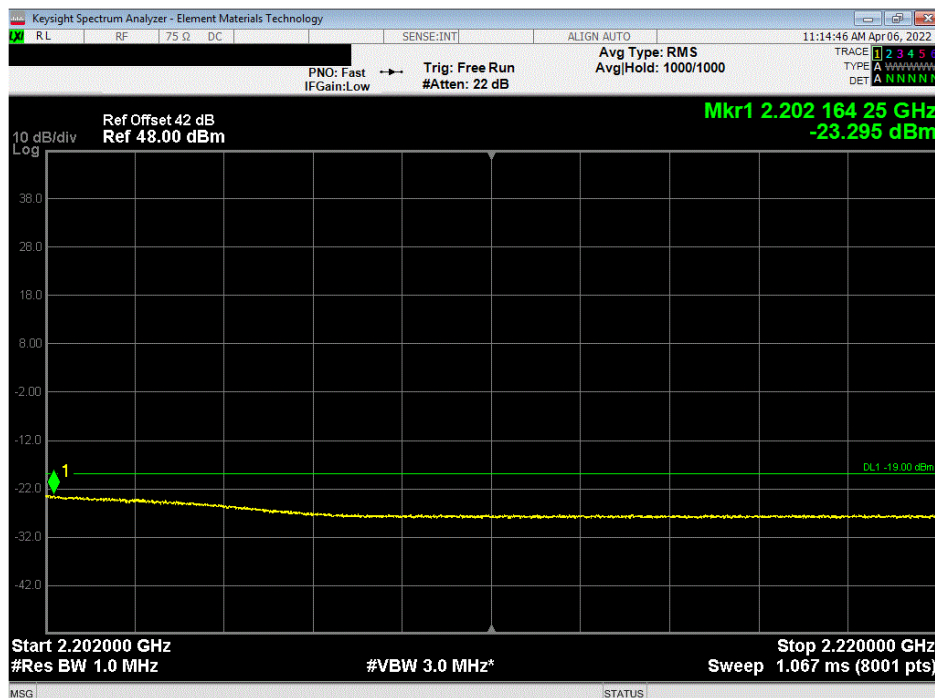


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.7	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.3	-19	Pass			

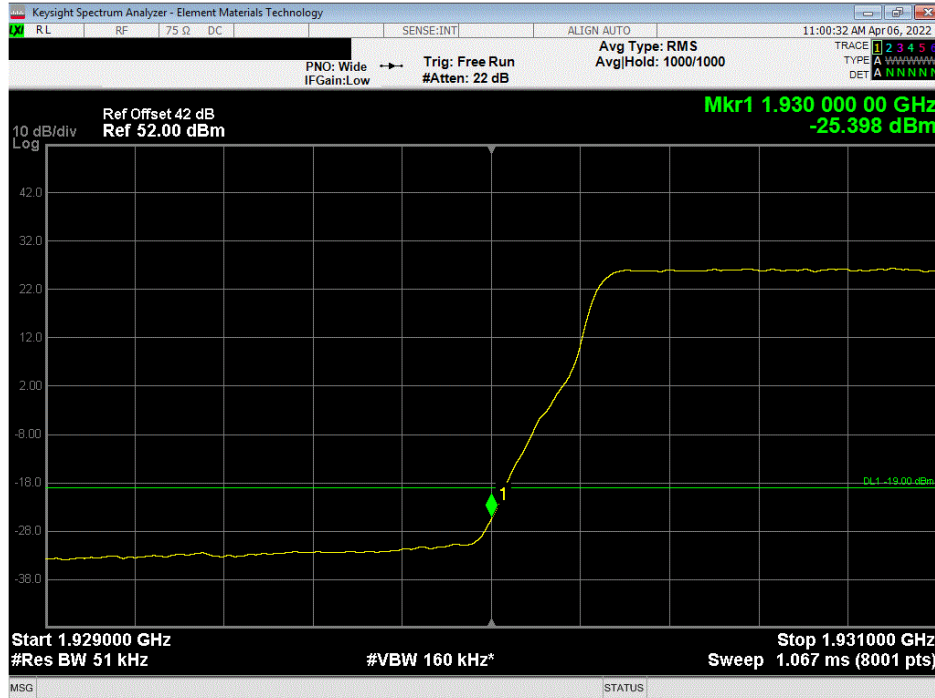


BAND EDGE COMPLIANCE

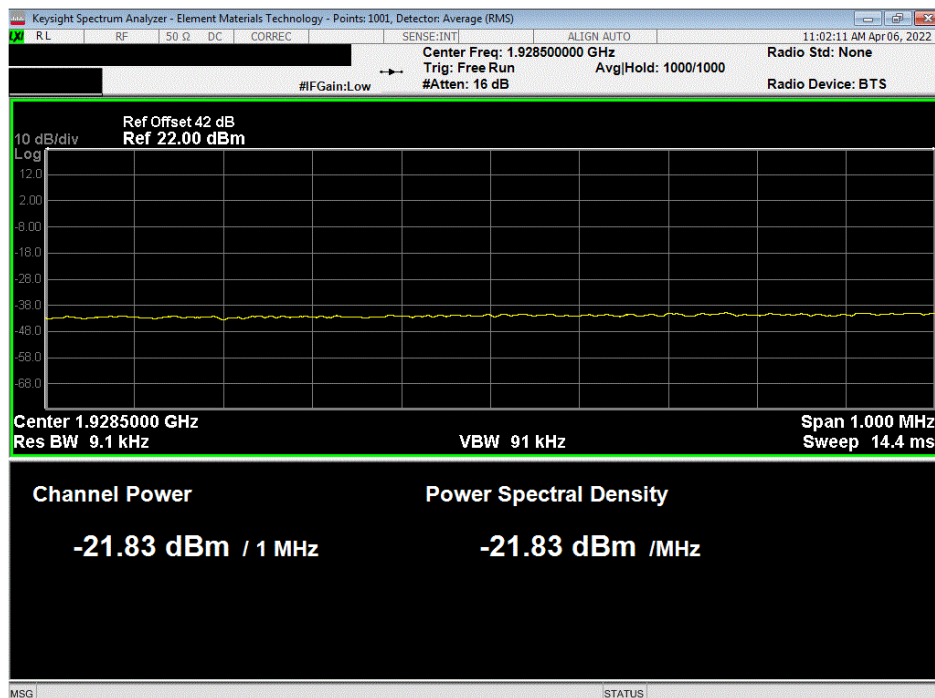


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.4	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.8	-19	Pass			

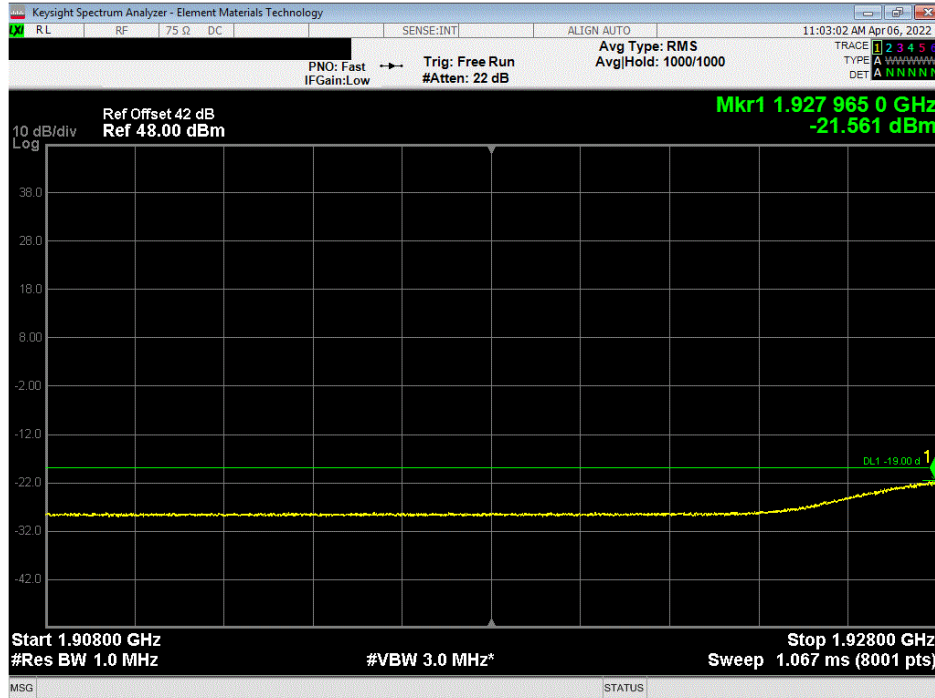


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.56	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-28.79	-19	Pass			

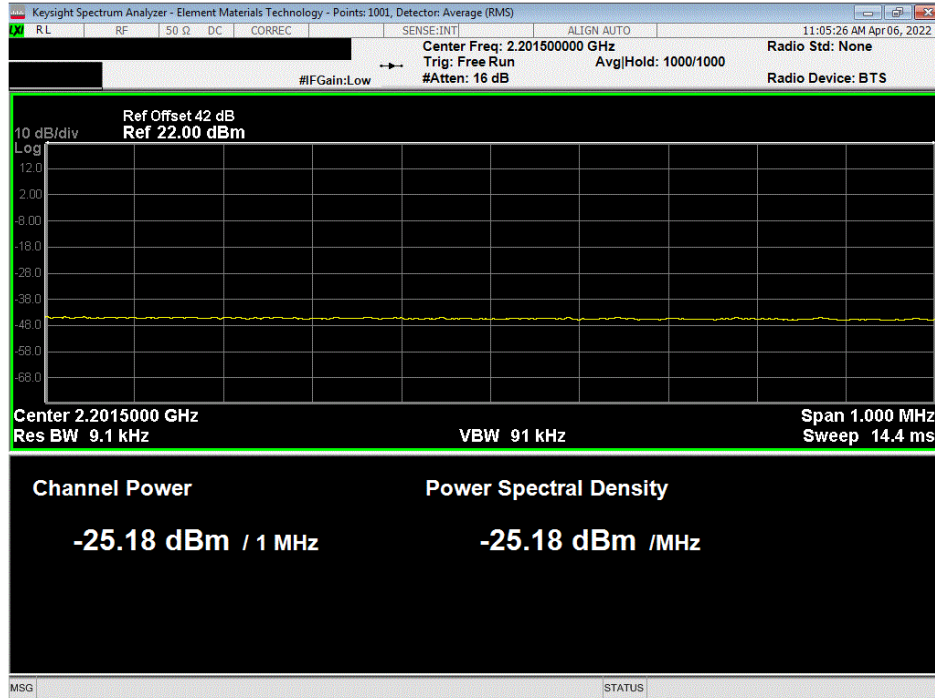


BAND EDGE COMPLIANCE

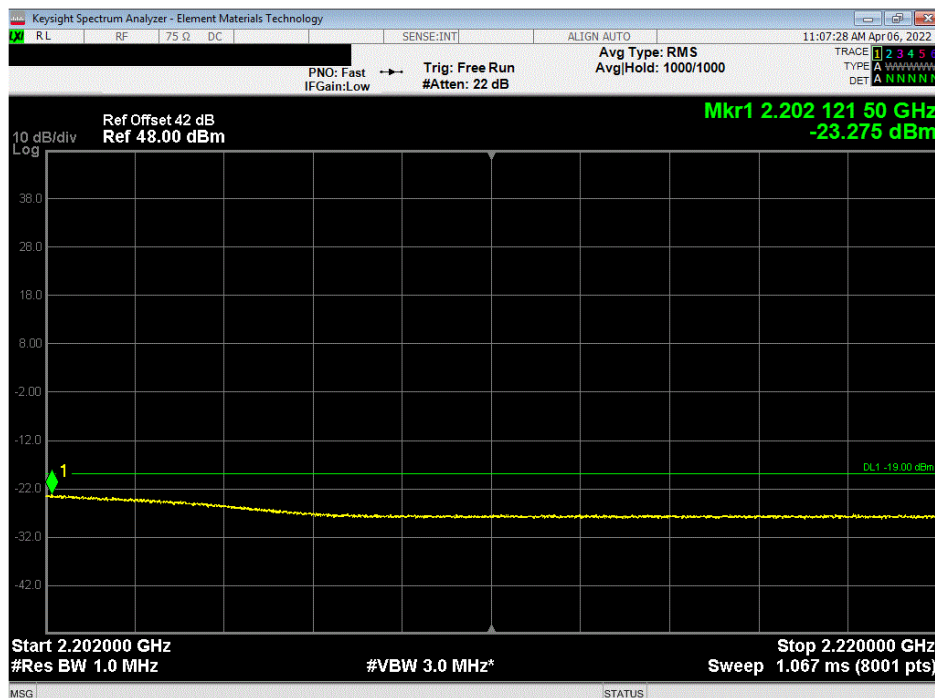


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.28	-19	Pass			

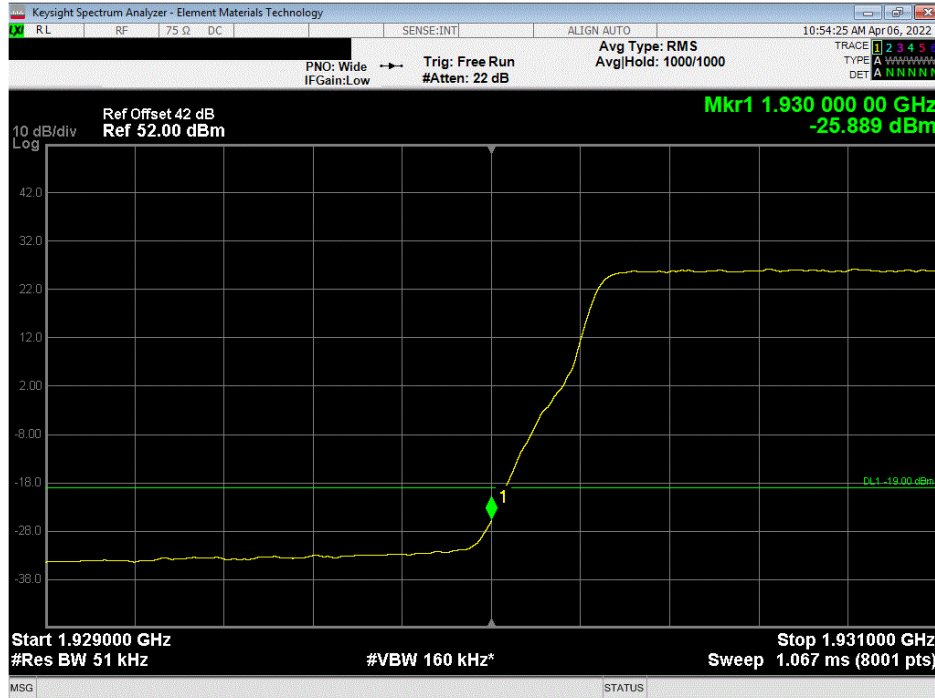


BAND EDGE COMPLIANCE

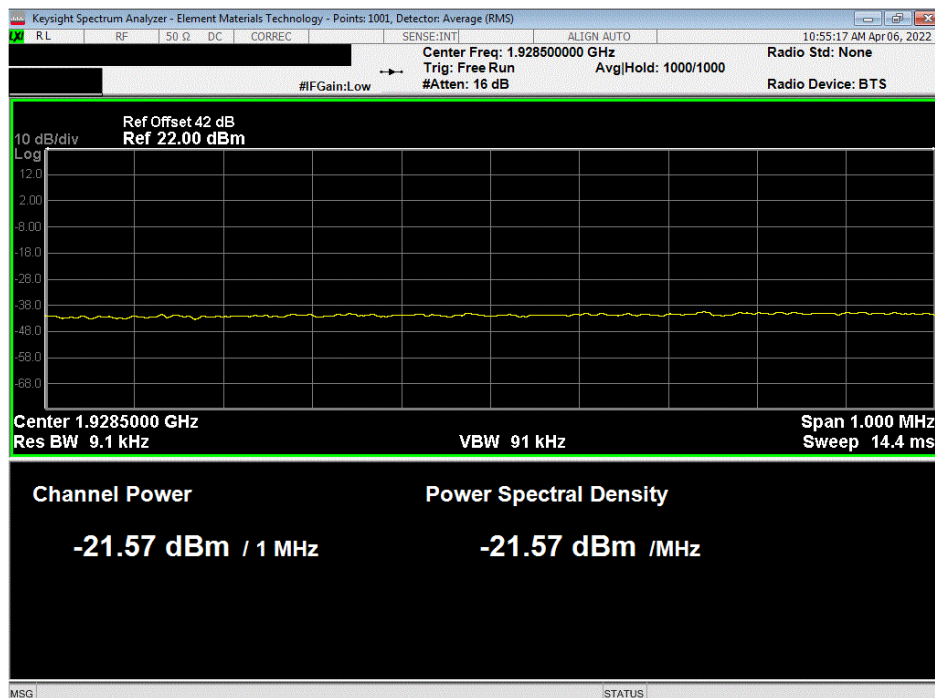


TMTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.89	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.6	-19	Pass			

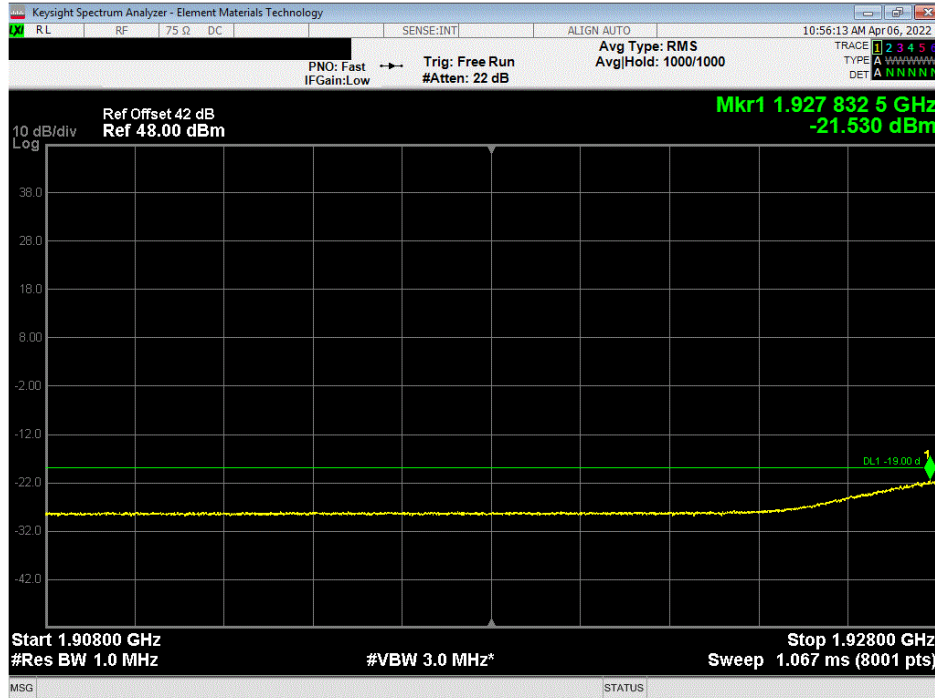


BAND EDGE COMPLIANCE

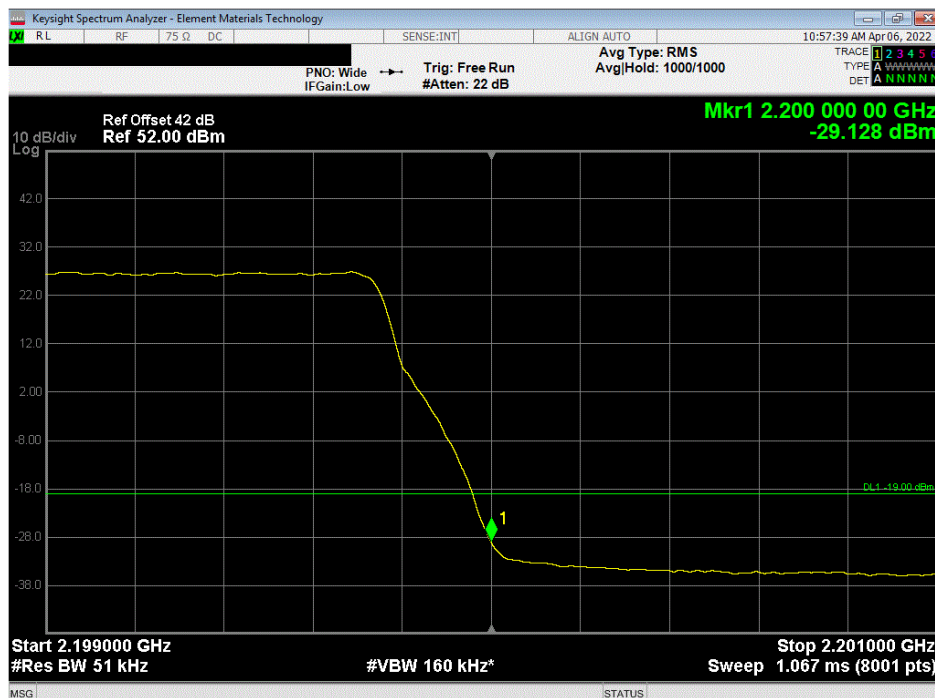


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.53	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.13	-19	Pass			

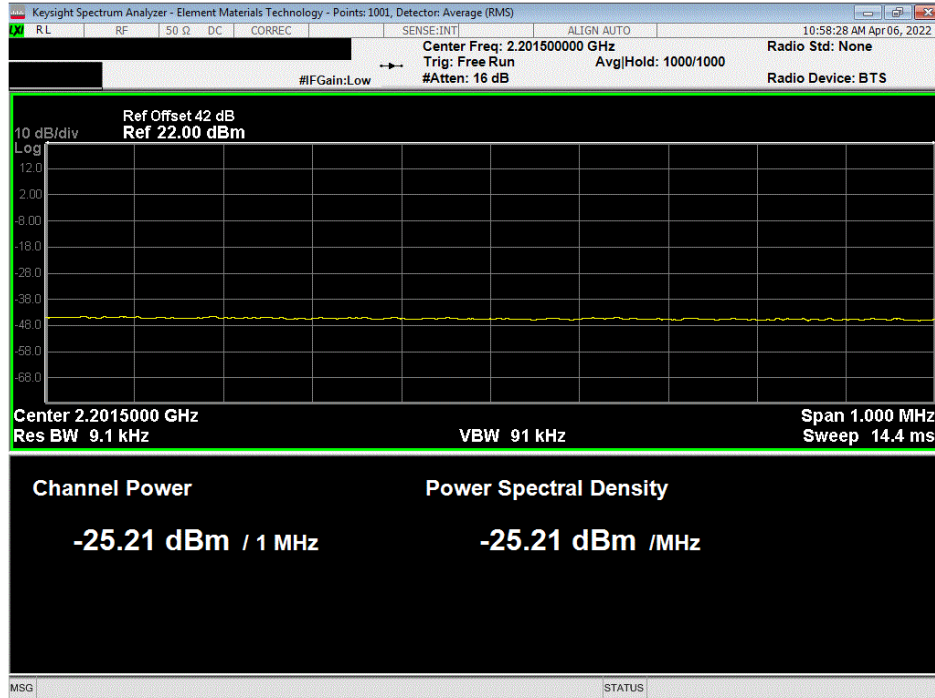


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.33	-19	Pass			

