

BAND EDGE



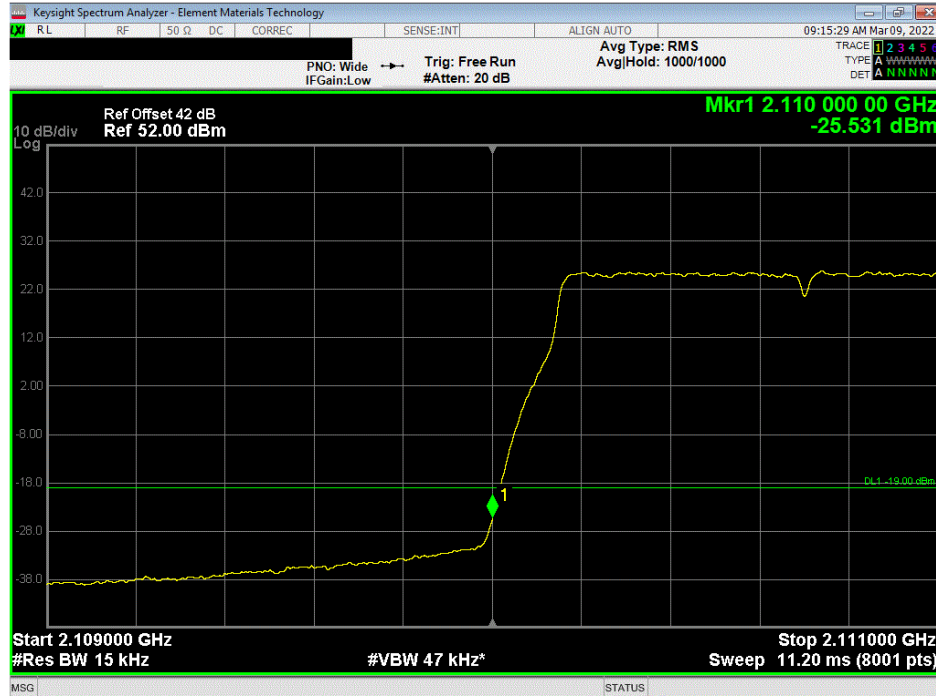
EUT: AHFI Remote Radio Head			Work Order: NOKI0037		
Serial Number: YK214000036			Date: 28-Feb-22		
Customer: Nokia Solutions and Networks			Temperature: 22.6 °C		
Attendees: David Le, John Rattanavong			Humidity: 23.7% RH		
Project: None			Barometric Pres.: 1026 mbar		
Tested by: Mark Baytan		Power: 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 accounted for in the reference level offset including any attenuators, filters, and DC blocks. Band 66 carriers enabled at maximum power is 80 watts/carrier. Band 25 carrier enabled at HALF power is 40 watts/carrier. Some 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.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature			
		Frequency Range	Max Value (dBm)	Limit (dBm)	Results
AWS Multicarrier Multiband					
Port 1					
Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier)					
QPSK Modulation					
AWS Carrier 1, 2110.7 MHz		1	-25.5	-19	Pass
AWS Carrier 1, 2110.7 MHz		2	-23.0	-19	Pass
AWS Carrier 1, 2110.7 MHz		3	-23.4	-19	Pass
AWS Carrier 3, 2199.3 MHz		1	-24.3	-19	Pass
AWS Carrier 3, 2199.3 MHz		2	-23.2	-19	Pass
AWS Carrier 3, 2199.3 MHz		3	-23.0	-19	Pass
16-QAM Modulation					
AWS Carrier 1, 2110.7 MHz		1	-26.8	-19	Pass
AWS Carrier 1, 2110.7 MHz		2	-22.8	-19	Pass
AWS Carrier 1, 2110.7 MHz		3	-23.4	-19	Pass
AWS Carrier 3, 2199.3 MHz		1	-24.8	-19	Pass
AWS Carrier 3, 2199.3 MHz		2	-23.1	-19	Pass
AWS Carrier 3, 2199.3 MHz		3	-23.1	-19	Pass
64-QAM Modulation					
AWS Carrier 1, 2110.7 MHz		1	-26.4	-19	Pass
AWS Carrier 1, 2110.7 MHz		2	-23.0	-19	Pass
AWS Carrier 1, 2110.7 MHz		3	-22.6	-19	Pass
AWS Carrier 3, 2199.3 MHz		1	-24.1	-19	Pass
AWS Carrier 3, 2199.3 MHz		2	-23.0	-19	Pass
AWS Carrier 3, 2199.3 MHz		3	-23.1	-19	Pass
256-QAM Modulation					
AWS Carrier 1, 2110.7 MHz		1	-23.2	-19	Pass
AWS Carrier 1, 2110.7 MHz		2	-23.2	-19	Pass
AWS Carrier 1, 2110.7 MHz		3	-23.8	-19	Pass
AWS Carrier 3, 2199.3 MHz		1	-24.2	-19	Pass
AWS Carrier 3, 2199.3 MHz		2	-22.2	-19	Pass
AWS Carrier 3, 2199.3 MHz		3	-23.0	-19	Pass
Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier)					
QPSK Modulation					
AWS Carrier 1, 2120 MHz		1	-24.4	-19	Pass
AWS Carrier 1, 2120 MHz		2	-23.5	-19	Pass
AWS Carrier 1, 2120 MHz		3	-23.2	-19	Pass
16-QAM Modulation					
AWS Carrier 1, 2120 MHz		1	-22.8	-19	Pass
AWS Carrier 1, 2120 MHz		2	-21.3	-19	Pass
AWS Carrier 1, 2120 MHz		3	-21.5	-19	Pass
64-QAM Modulation					
AWS Carrier 1, 2120 MHz		1	-23.7	-19	Pass
AWS Carrier 1, 2120 MHz		2	-23.0	-19	Pass
AWS Carrier 1, 2120 MHz		3	-22.5	-19	Pass
256-QAM Modulation					
AWS Carrier 1, 2120 MHz		1	-22.7	-19	Pass
AWS Carrier 1, 2120 MHz		2	-22.8	-19	Pass
AWS Carrier 1, 2120 MHz		3	-22.5	-19	Pass
Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier)					
QPSK Modulation					
AWS Carrier 3, 2190 MHz		1	-22.9	-19	Pass
AWS Carrier 3, 2190 MHz		2	-21.5	-19	Pass
AWS Carrier 3, 2190 MHz		3	-20.9	-19	Pass
16-QAM Modulation					
AWS Carrier 3, 2190 MHz		1	-21.8	-19	Pass
AWS Carrier 3, 2190 MHz		2	-21.5	-19	Pass
AWS Carrier 3, 2190 MHz		3	-20.8	-19	Pass
64-QAM Modulation					
AWS Carrier 3, 2190 MHz		1	-22.7	-19	Pass
AWS Carrier 3, 2190 MHz		2	-21.1	-19	Pass
AWS Carrier 3, 2190 MHz		3	-20.3	-19	Pass
256-QAM Modulation					
AWS Carrier 3, 2190 MHz		1	-23.8	-19	Pass
AWS Carrier 3, 2190 MHz		2	-22.1	-19	Pass
AWS Carrier 3, 2190 MHz		3	-21.4	-19	Pass

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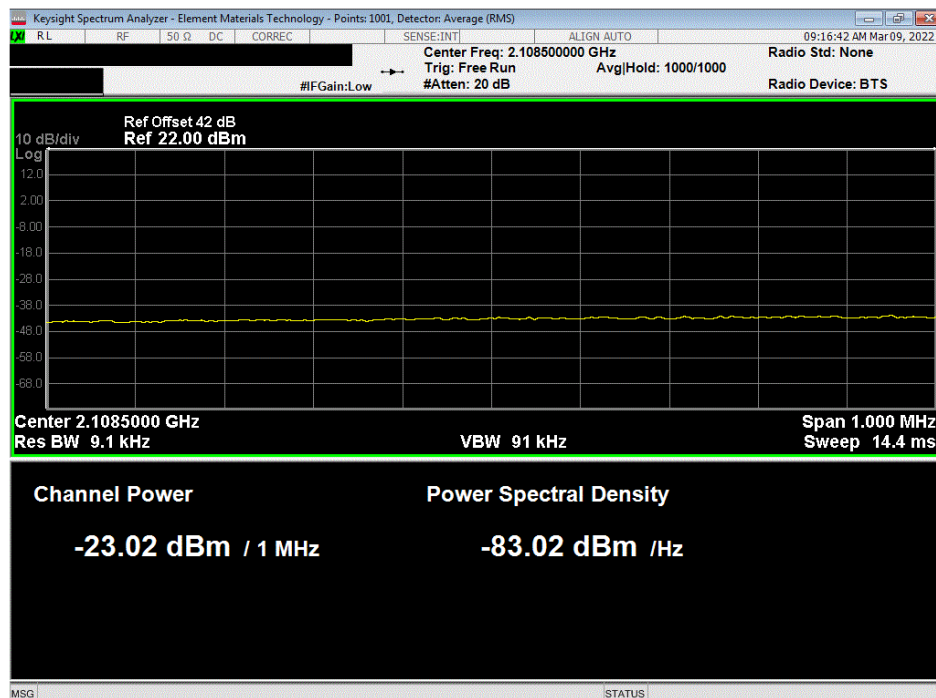


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-25.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.0	-19	Pass			

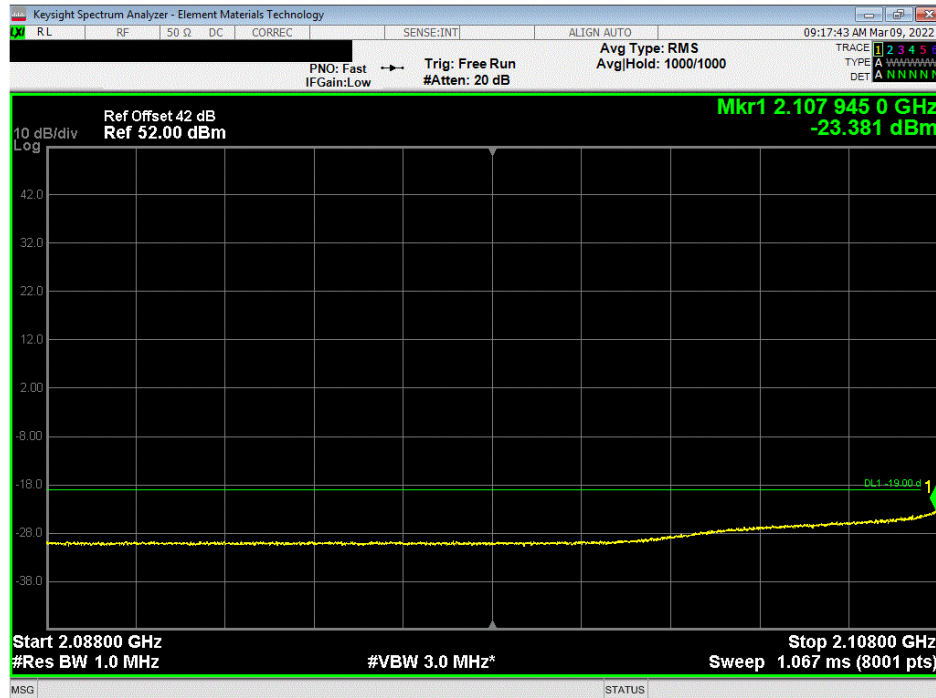


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TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.3	-19	Pass			

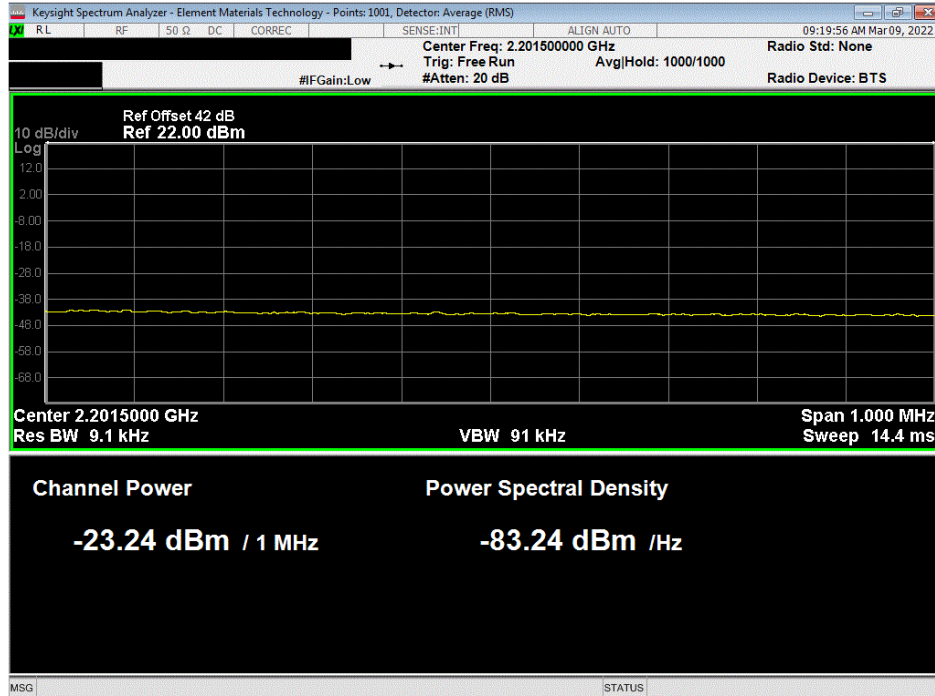


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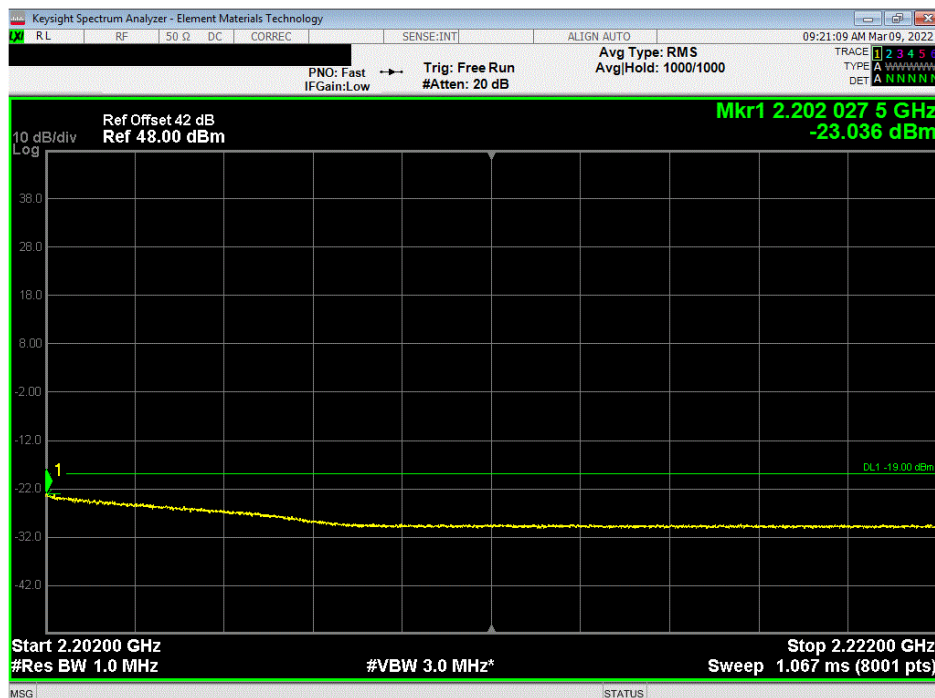


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.0	-19	Pass			

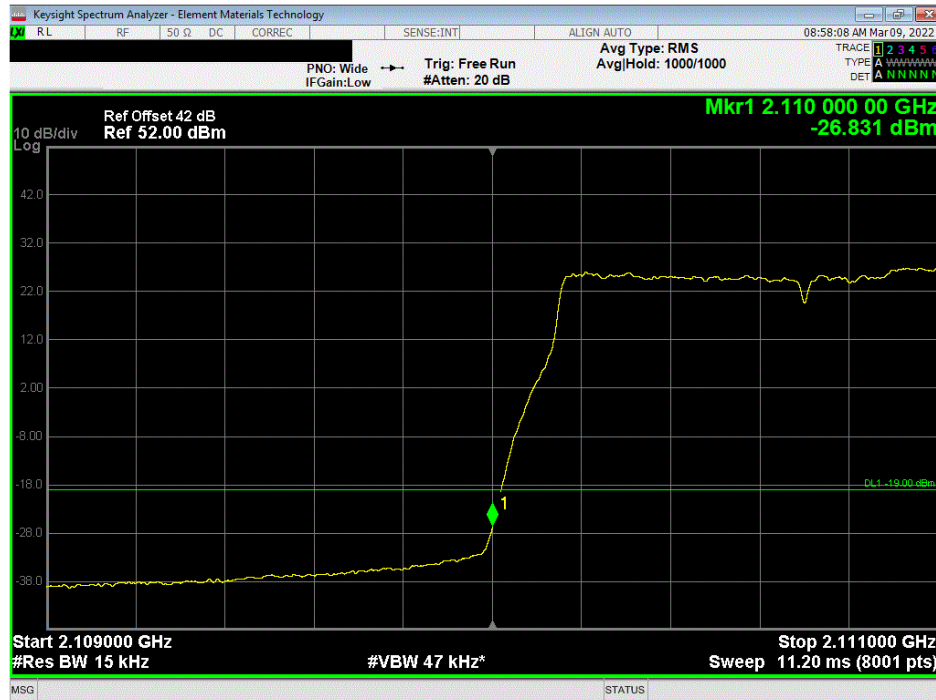


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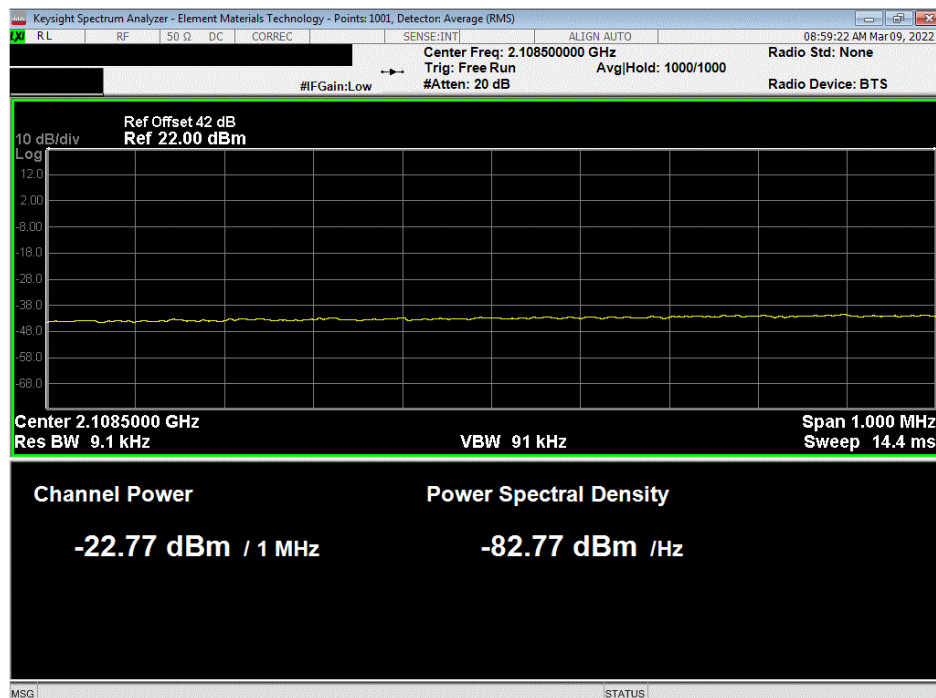


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.8	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.8	-19	Pass			

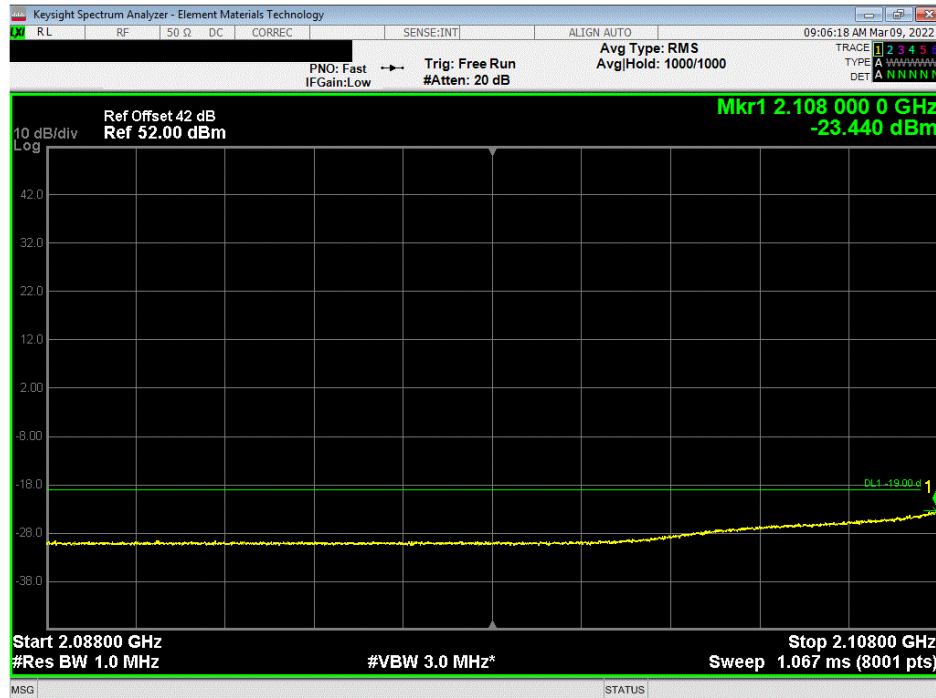


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TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.8	-19	Pass			

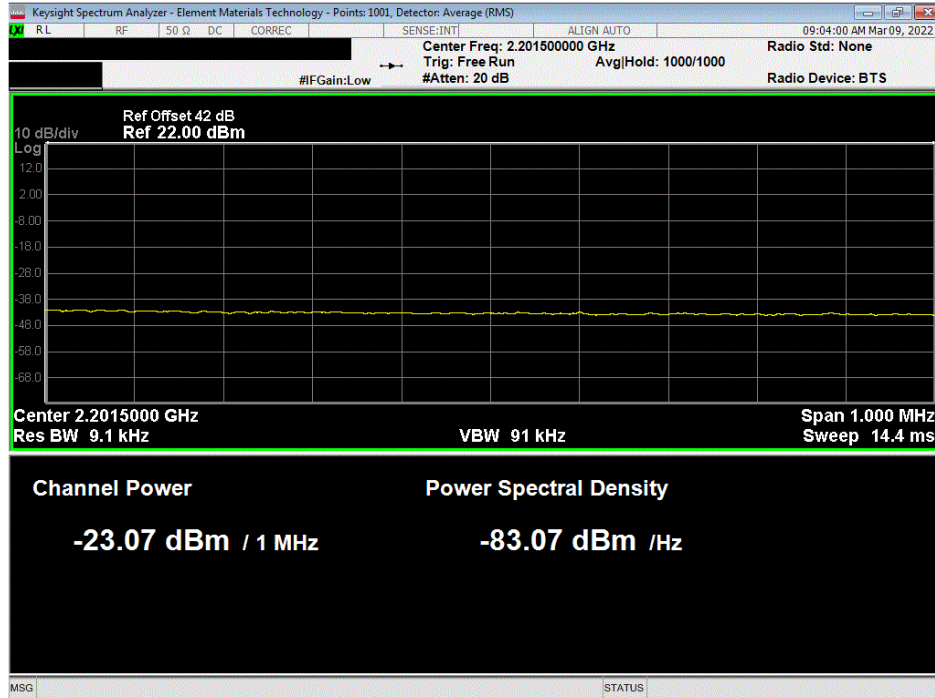


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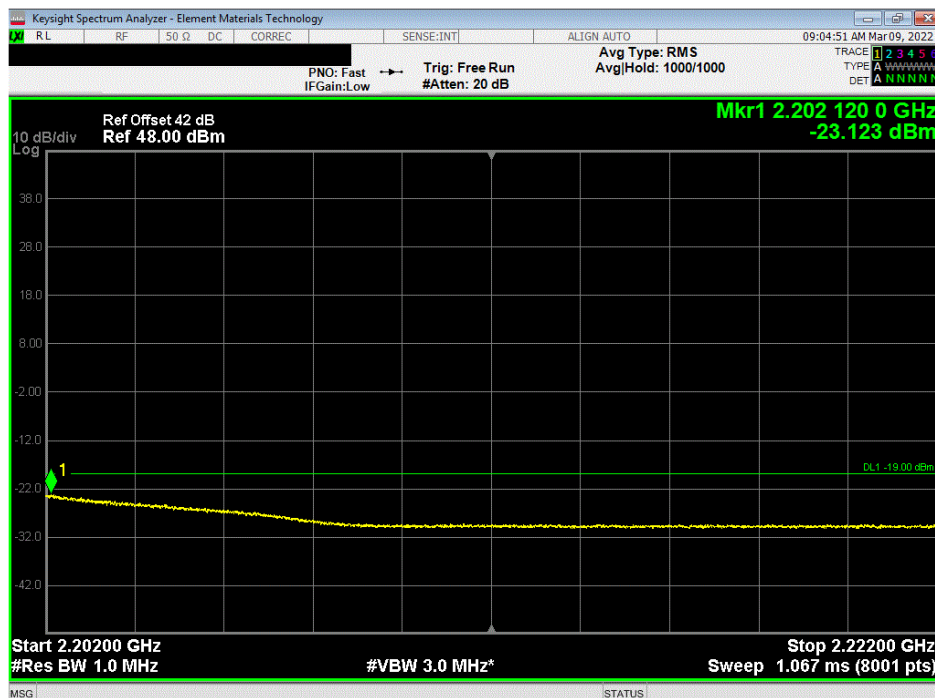


TbTtX 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.1	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.1	-19	Pass			

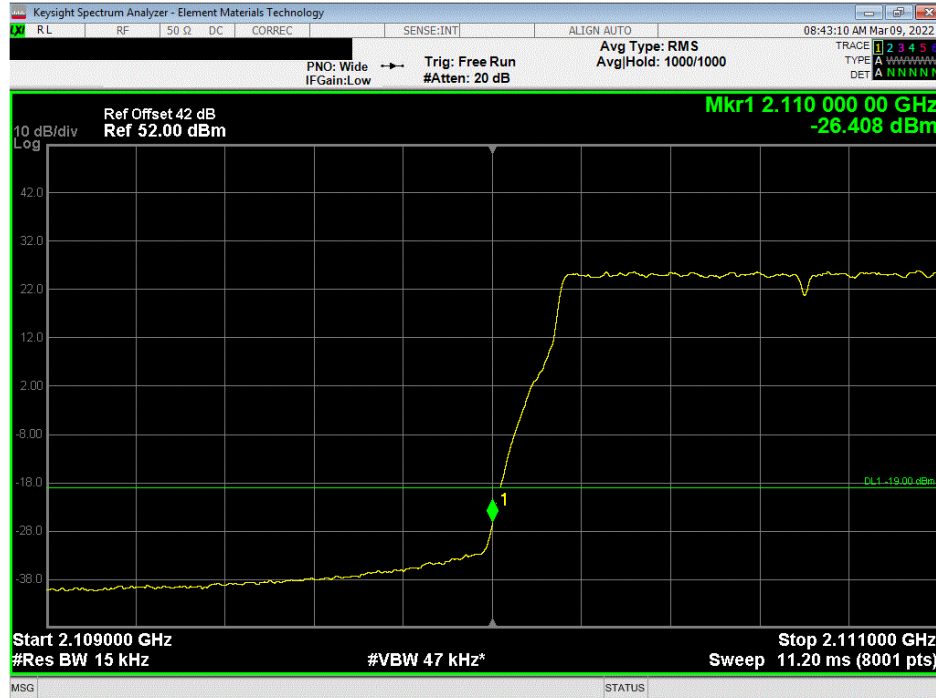


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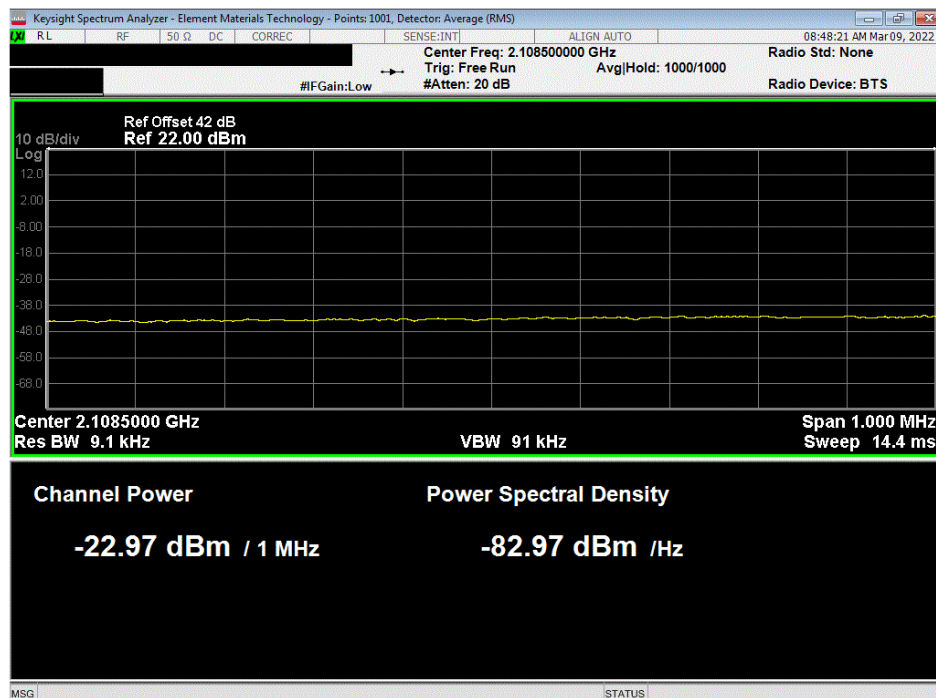


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AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.0	-19	Pass			

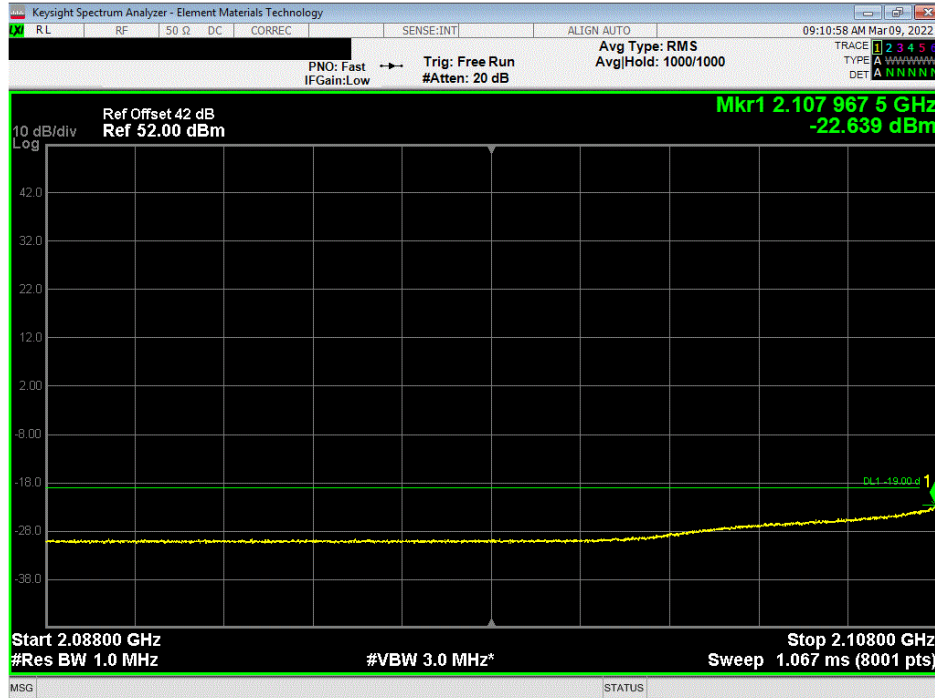


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TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.6	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.1	-19	Pass			

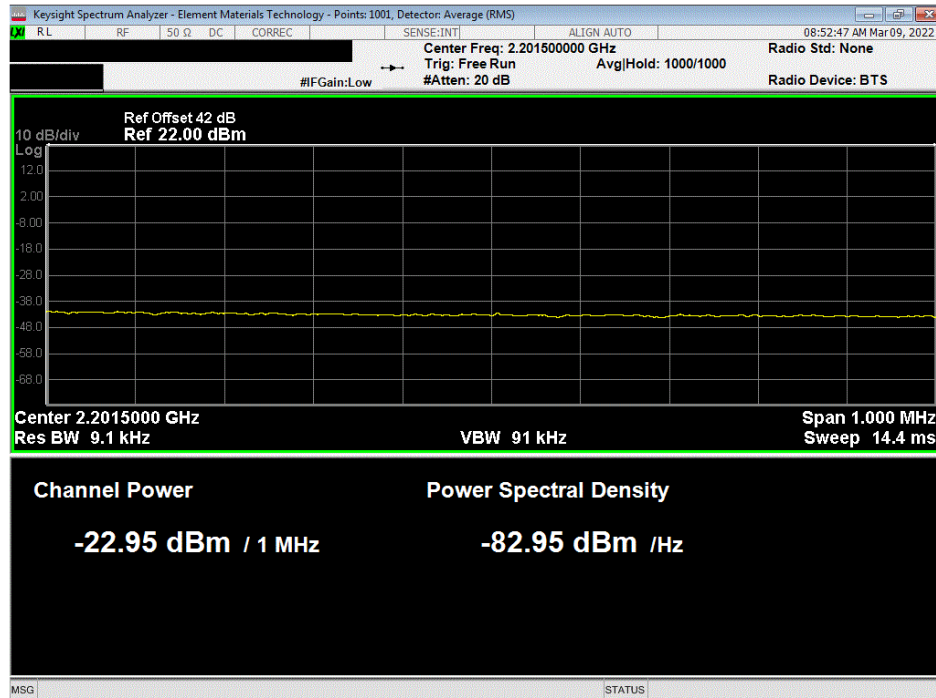


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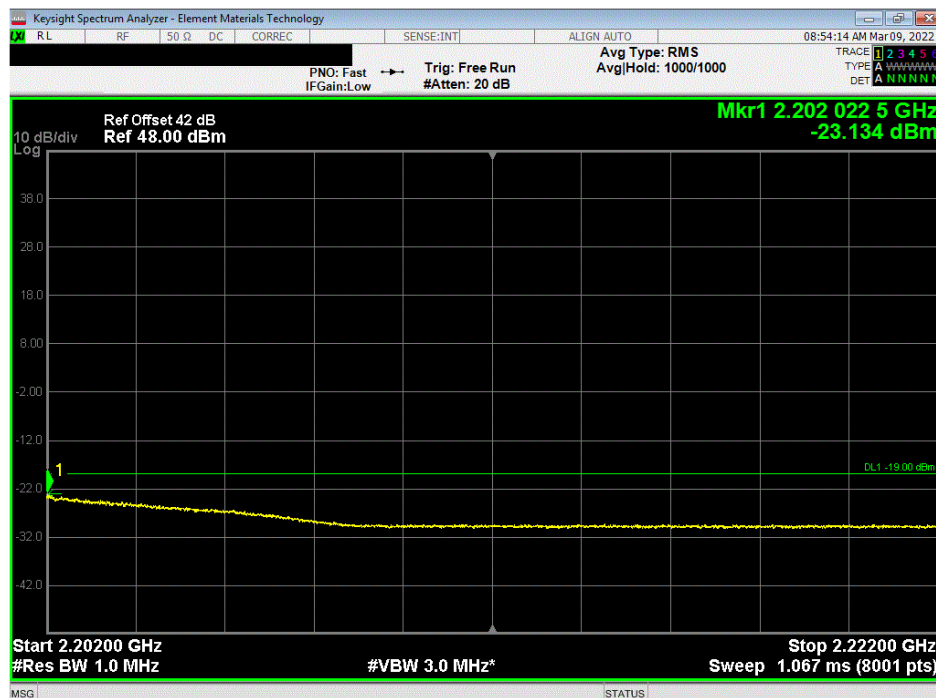


TbTtx 2021.12.14.1 XMt 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.0	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.1	-19	Pass			

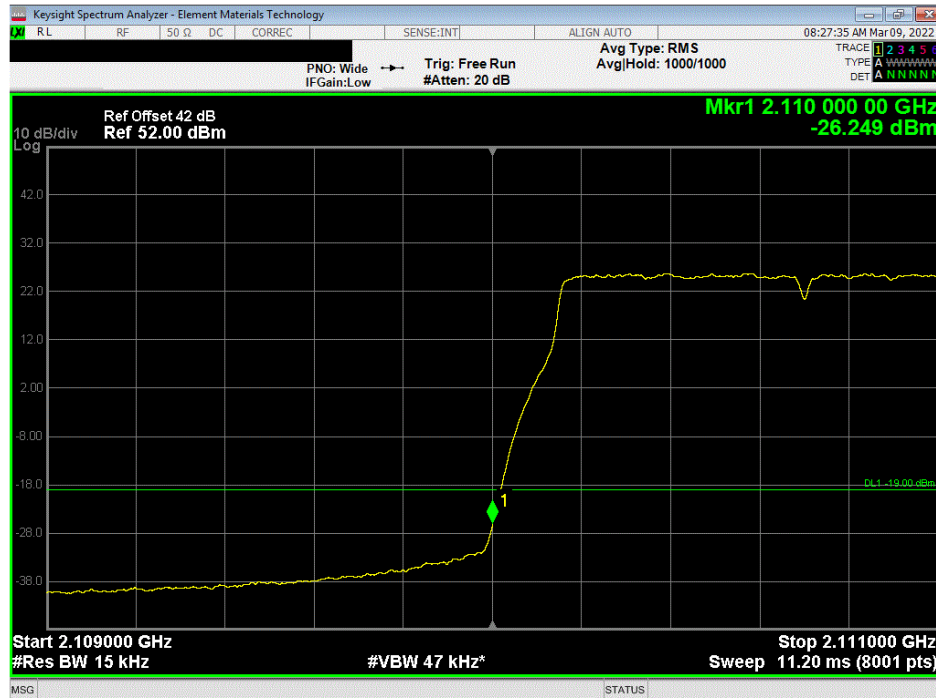


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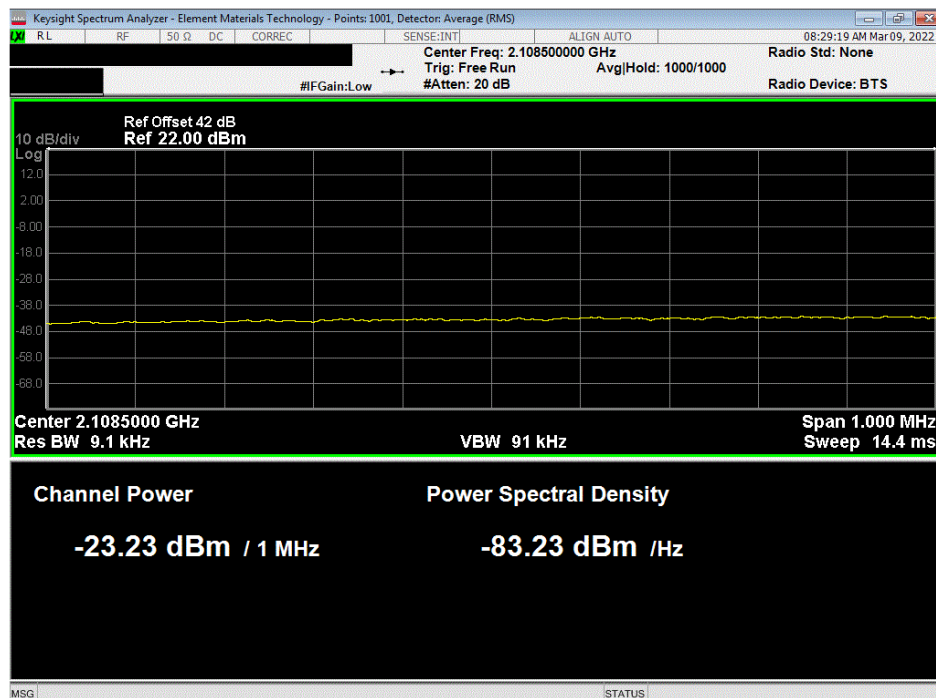


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.2	-19	Pass			

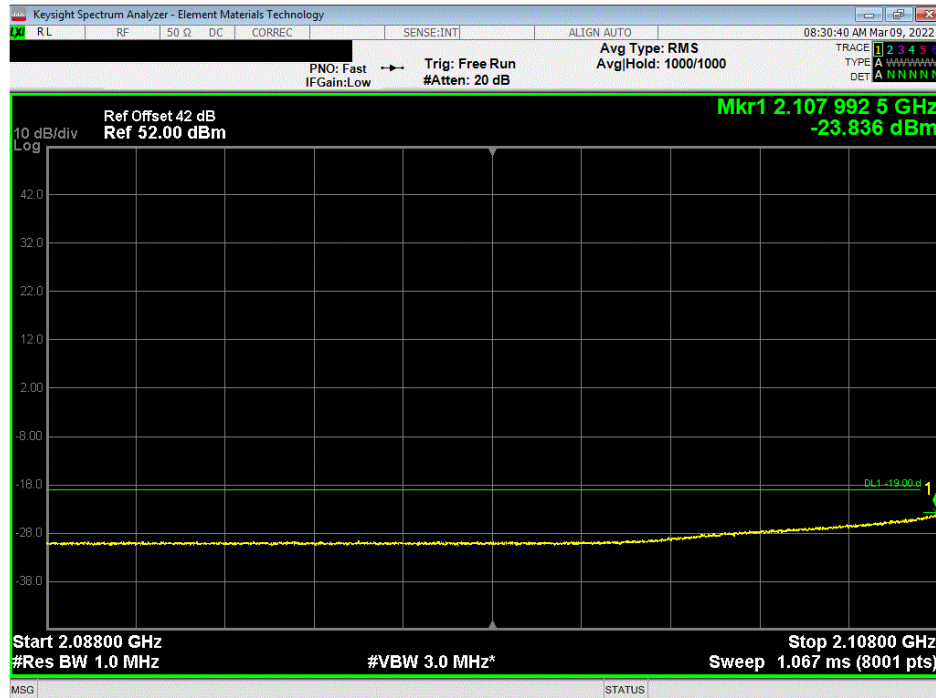


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TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2110.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.8	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.2	-19	Pass			

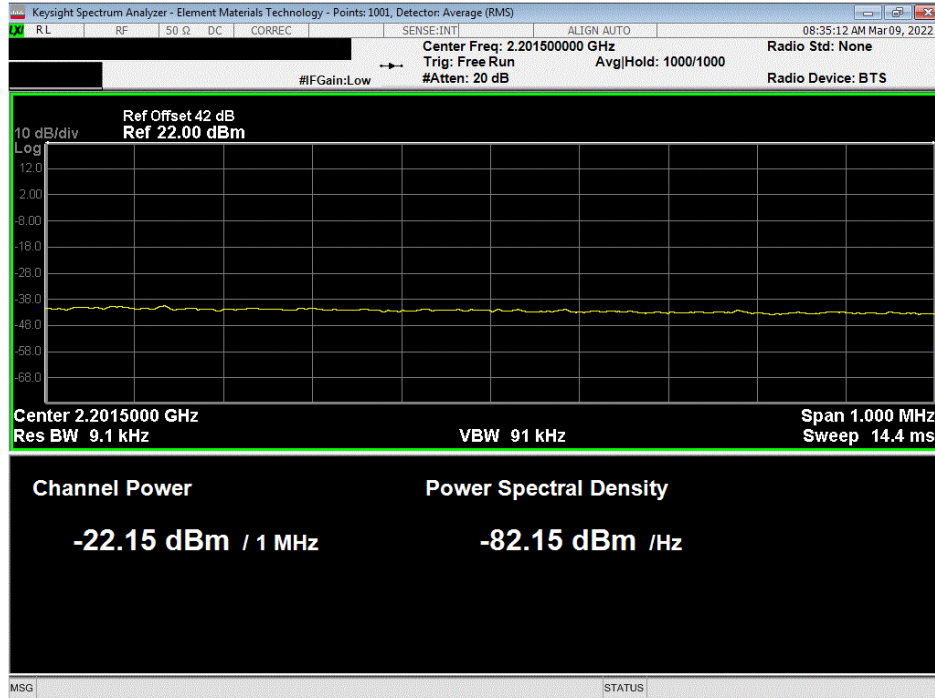


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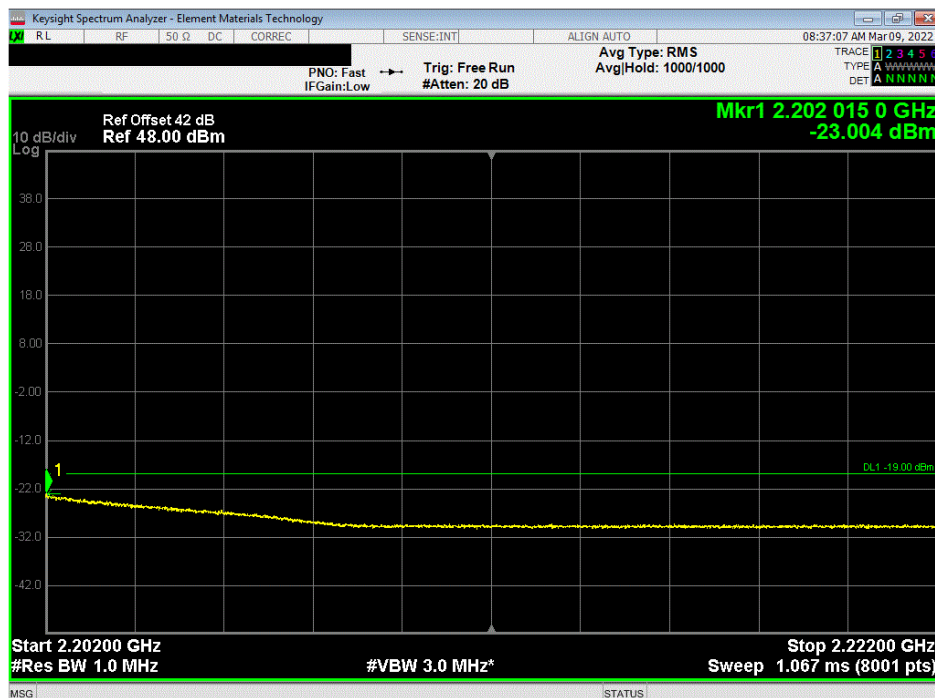


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band LTE1.4 (3 Carriers), PCS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.0	-19	Pass			

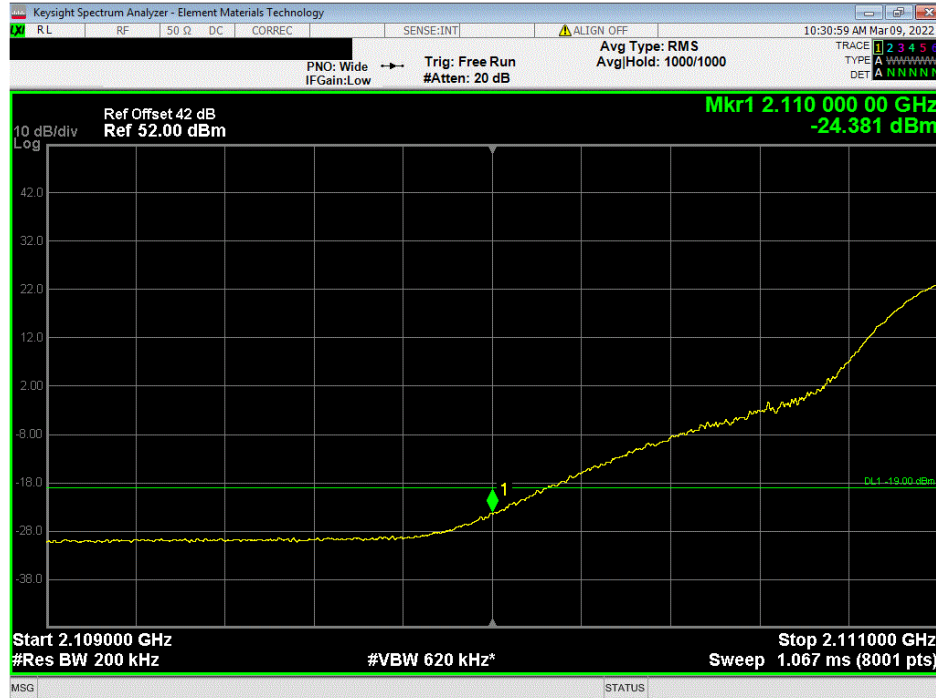


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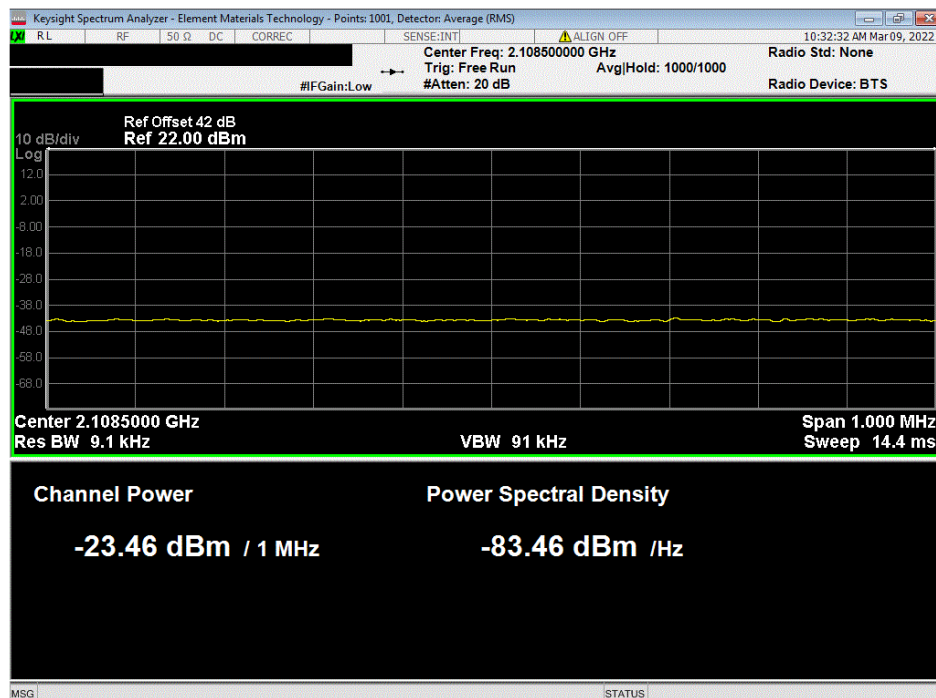


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-24.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.5	-19	Pass			

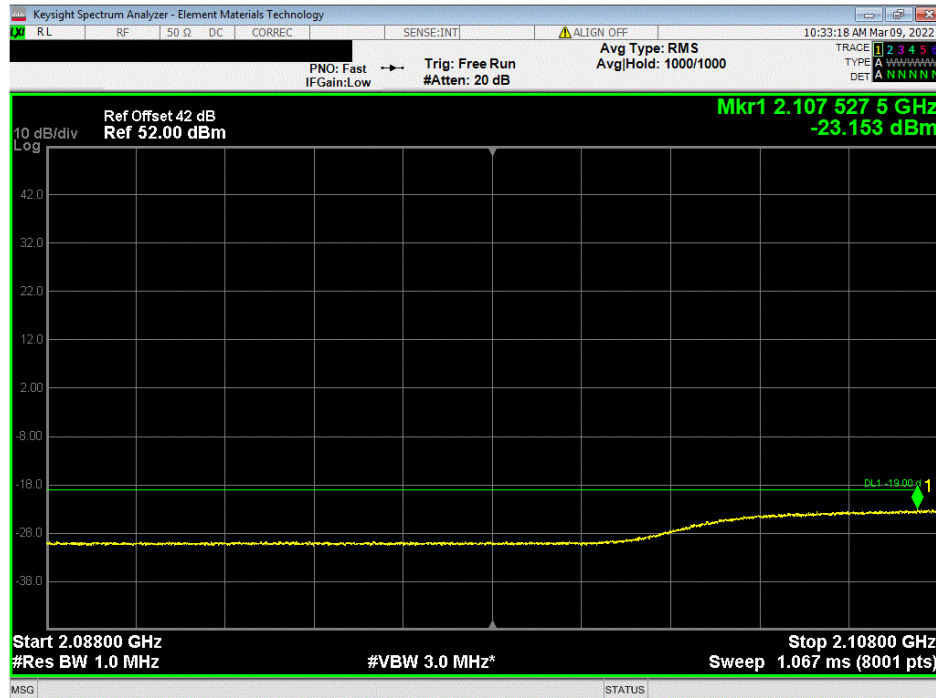


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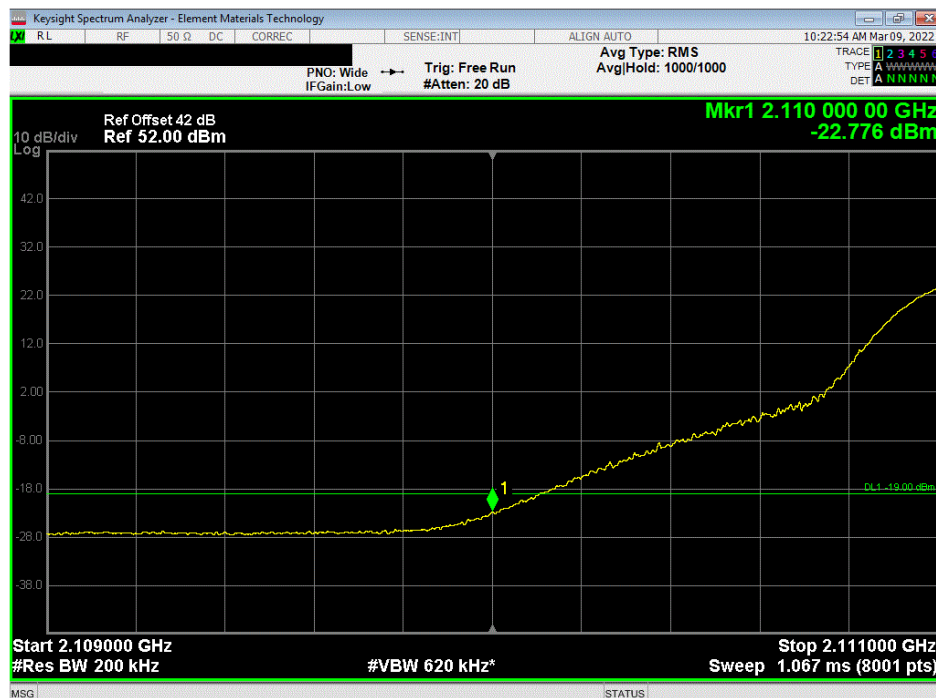


TMX 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.8	-19	Pass			

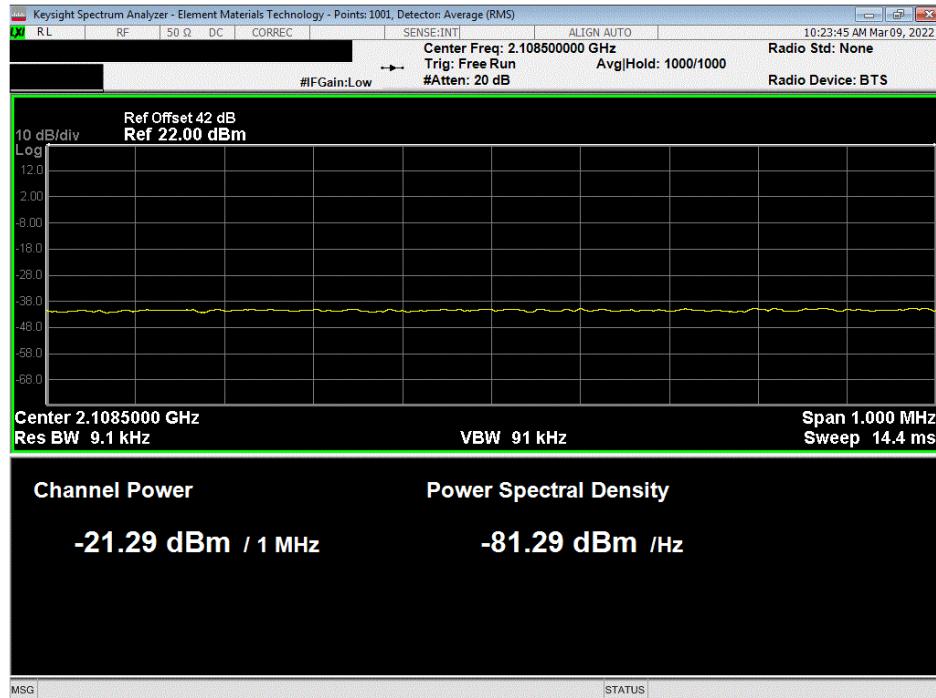


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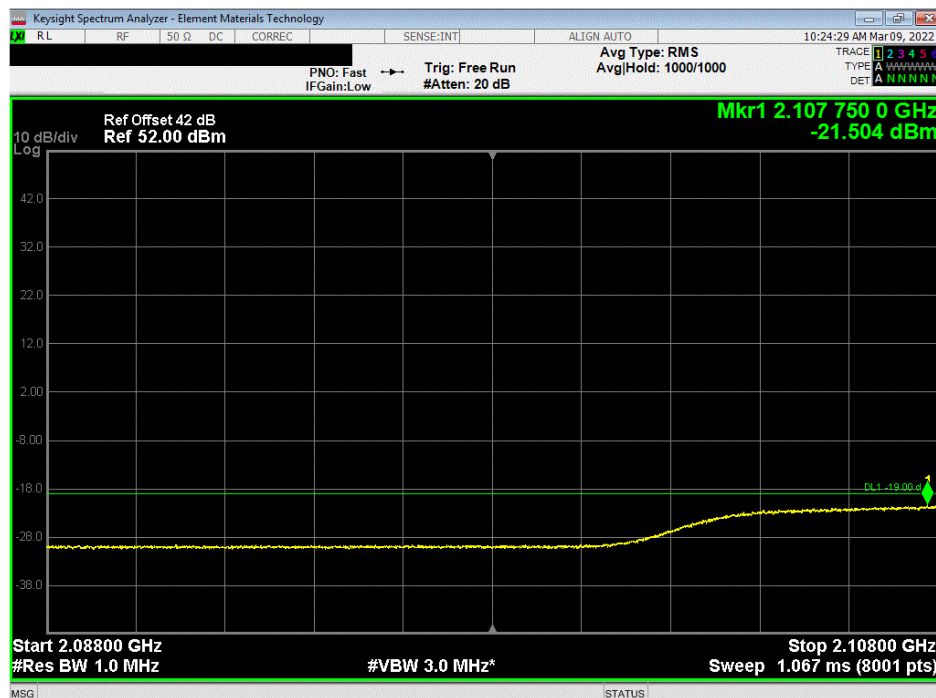


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.3	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.5	-19	Pass			

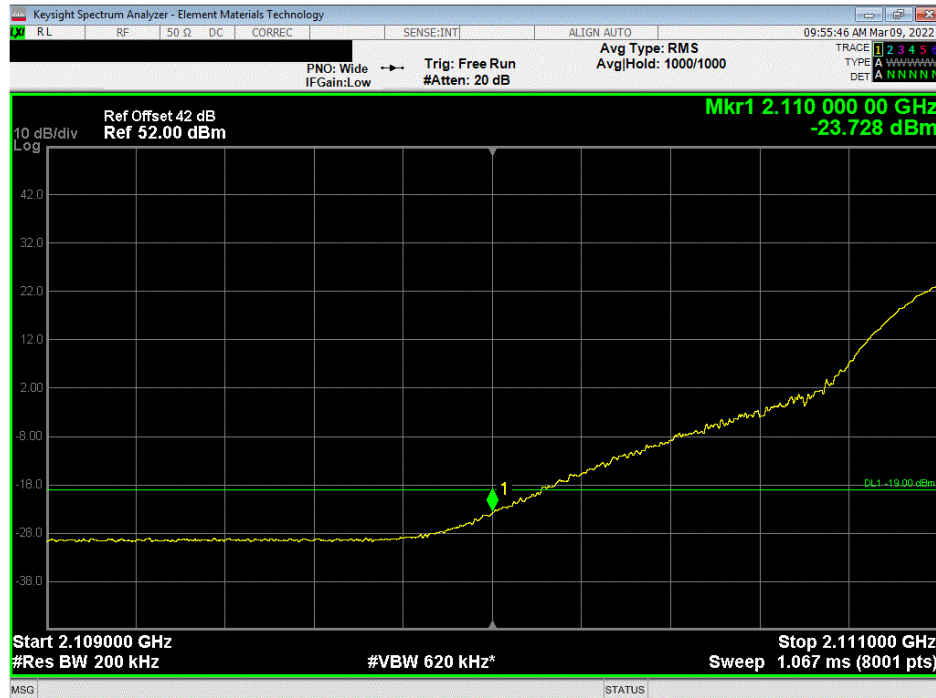


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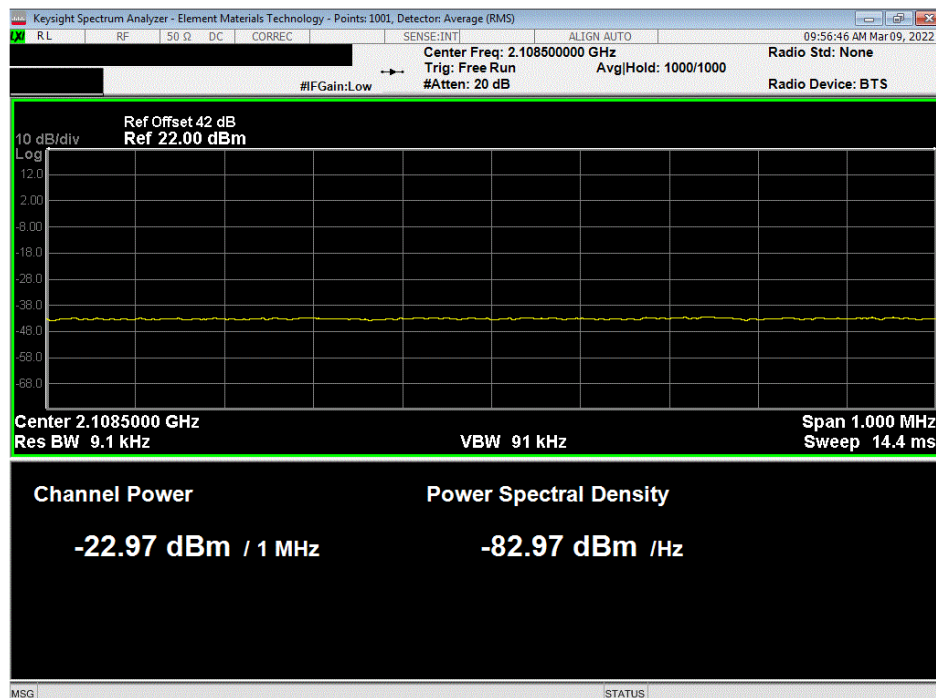


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.7	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.0	-19	Pass			

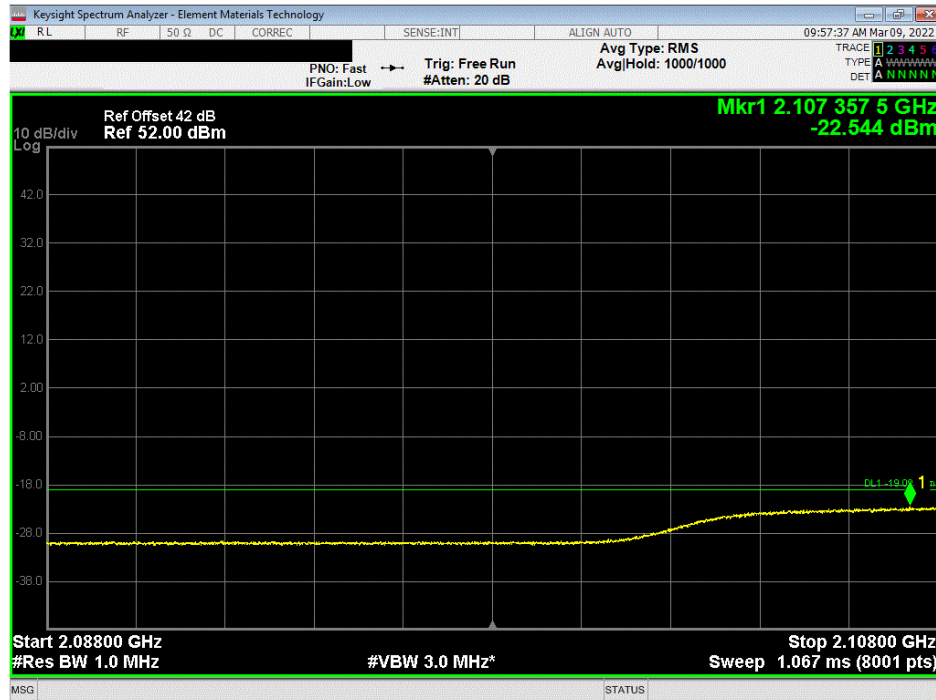


BAND EDGE



TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.7	-19	Pass			

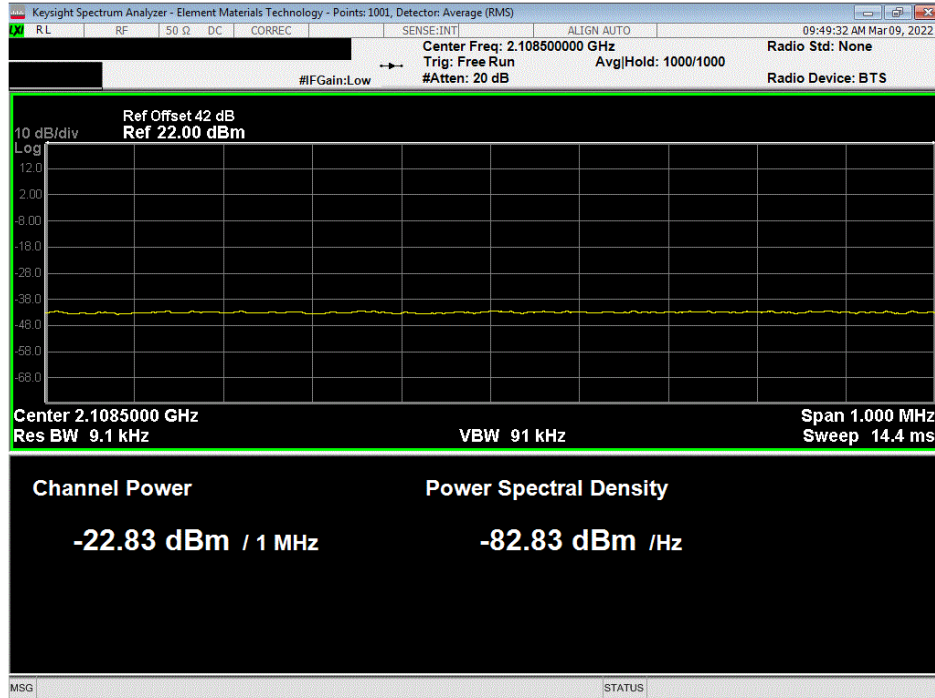


BAND EDGE

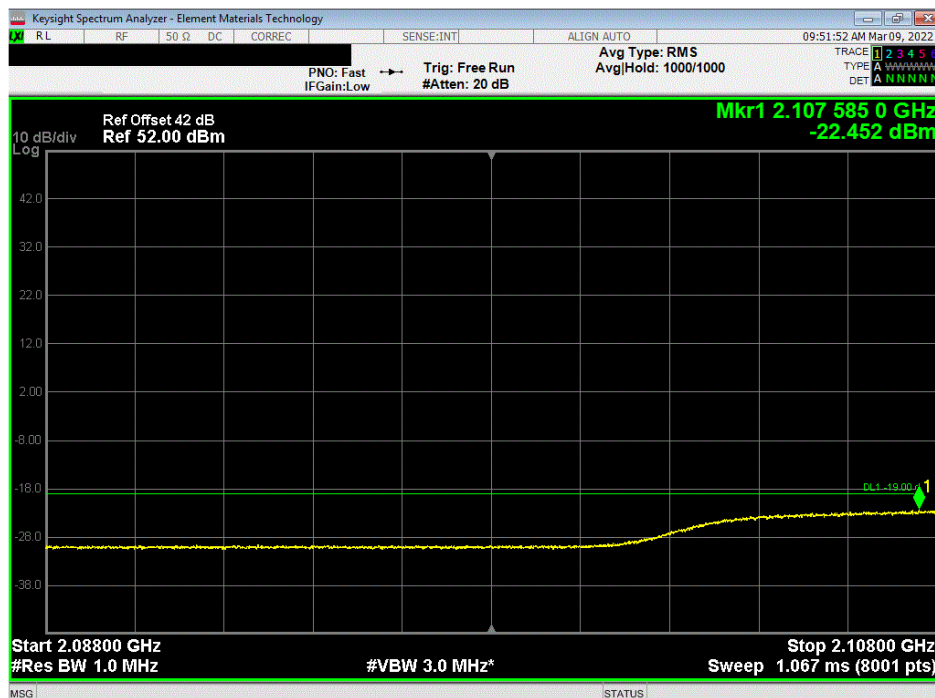


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.8	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2120 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.5	-19	Pass			

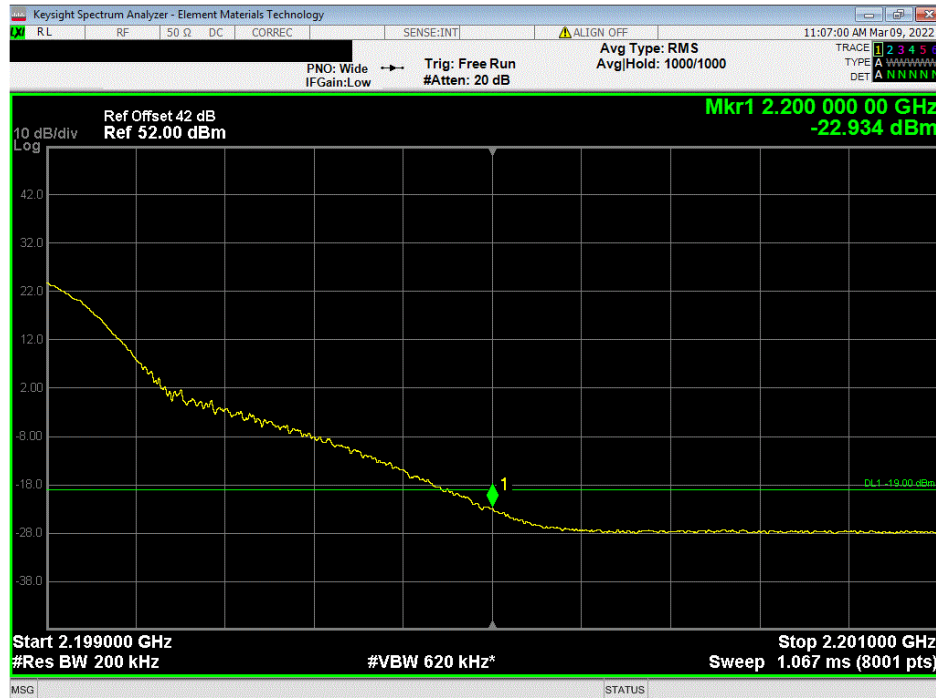


BAND EDGE

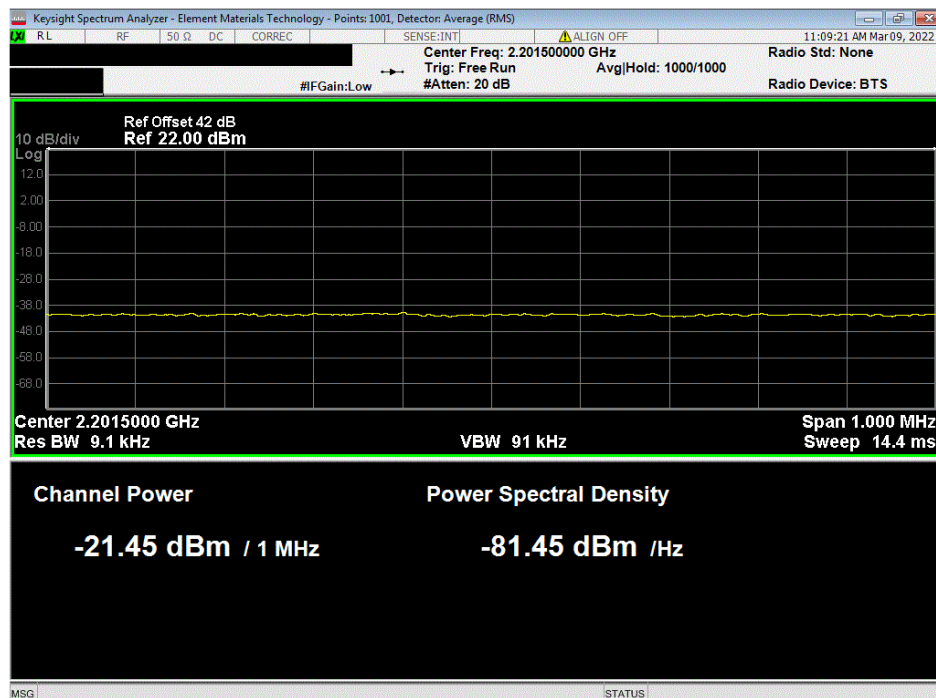


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.9	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.5	-19	Pass			

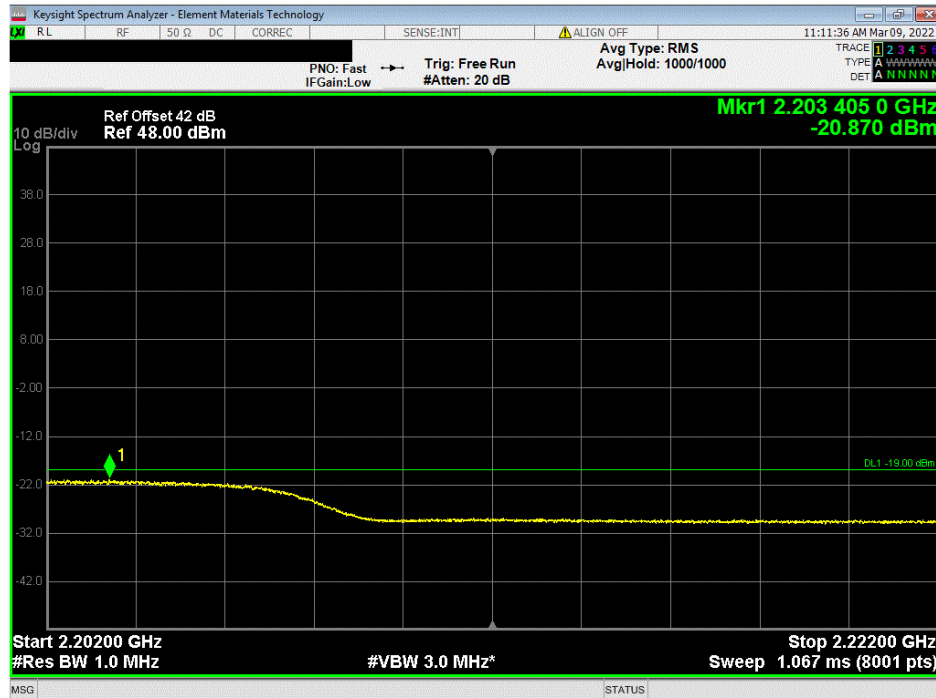


BAND EDGE



TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.9	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-21.8	-19	Pass			

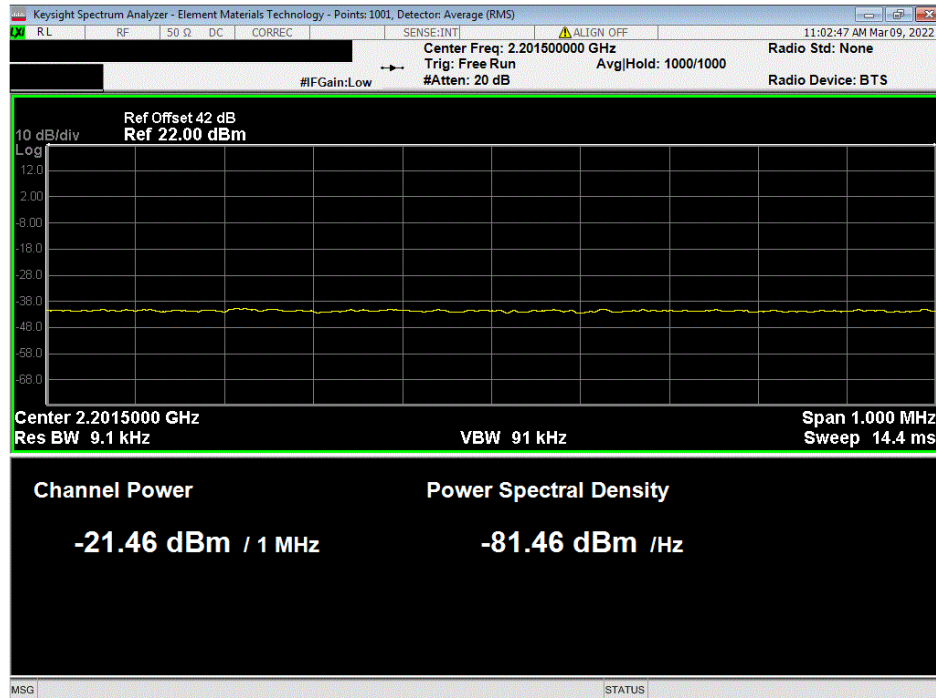


BAND EDGE

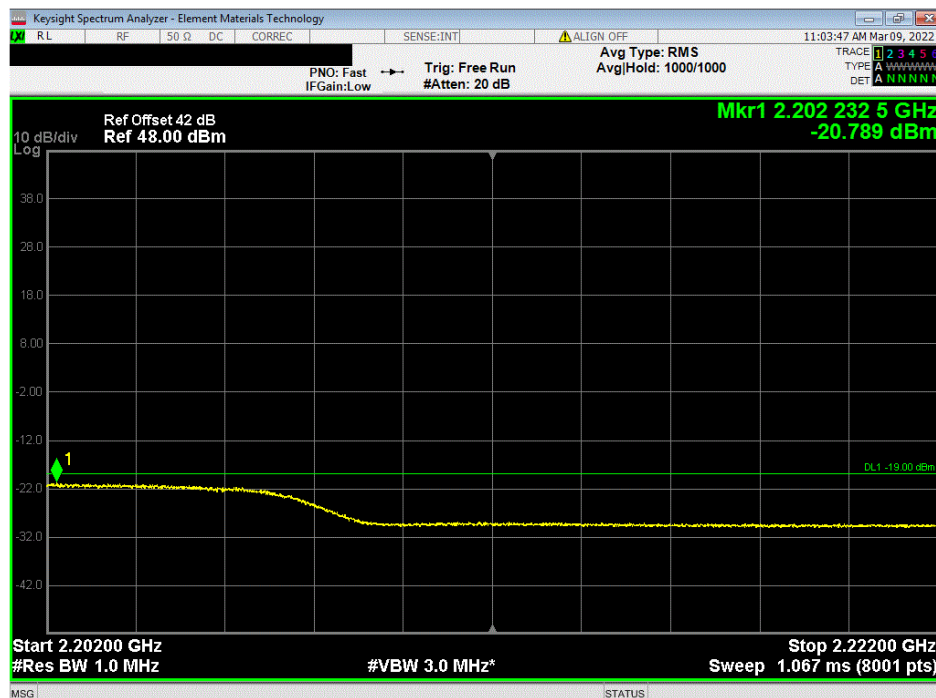


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.8	-19	Pass			



BAND EDGE

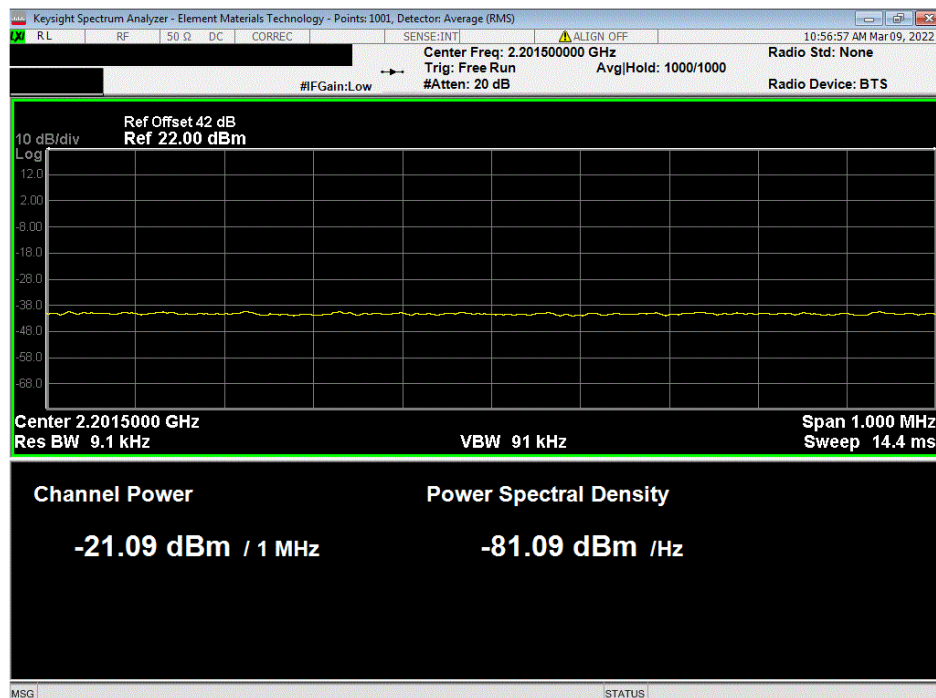


TbTtx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-22.7	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.1	-19	Pass			

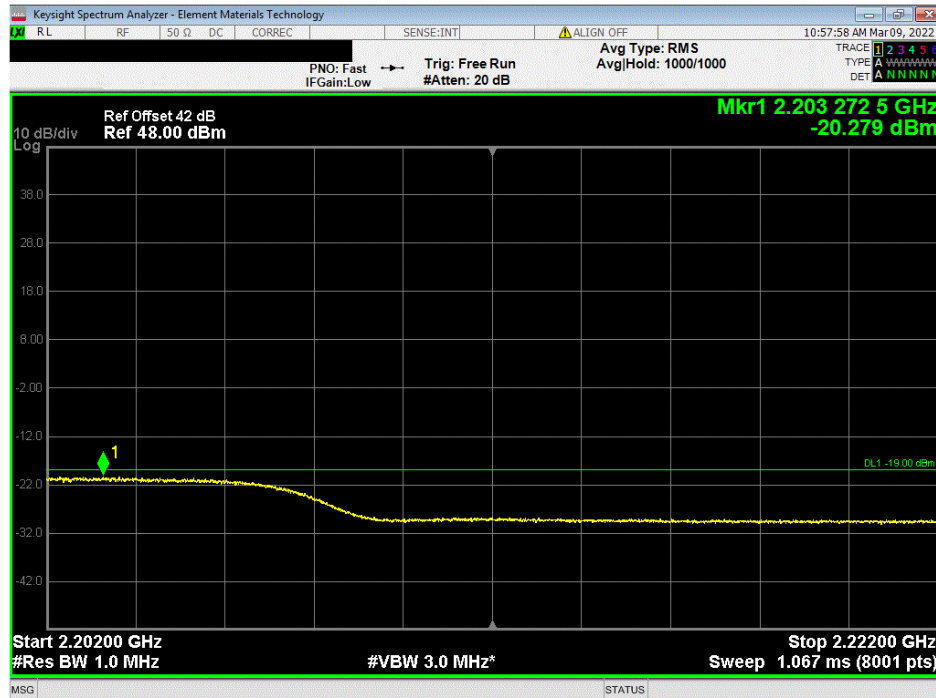


BAND EDGE



TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.3	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-23.8	-19	Pass			

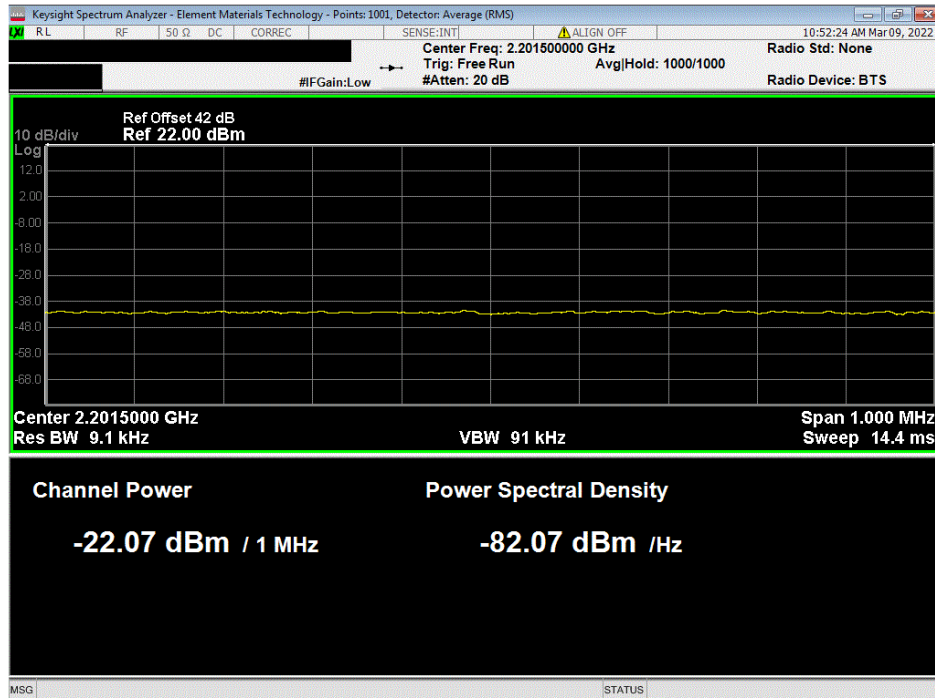


BAND EDGE

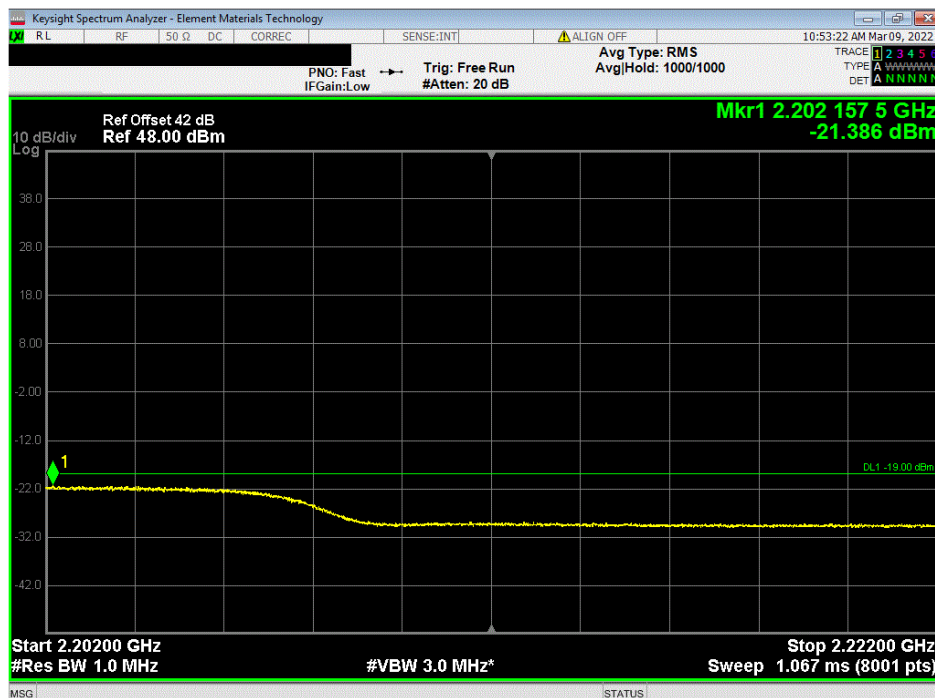


TbTx 2021.12.14.1 XMR 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.1	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band LTE20 (2 Carriers), PCS Band LTE20 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2190 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.4	-19	Pass			



BAND EDGE



TuTu 2021.12.14.1 XMN 2022.02.07.0

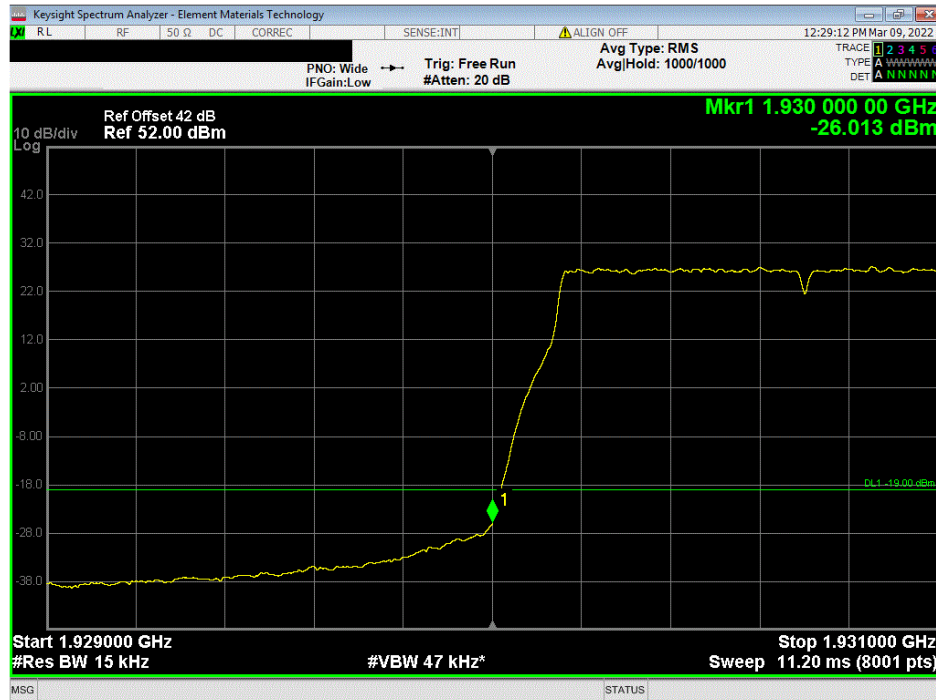
EUT: AHFI Remote Radio Head		Work Order: NOKI0037			
Serial Number: YK214000036		Date: 28-Feb-22			
Customer: Nokia Solutions and Networks		Temperature: 22.6 °C			
Attendees: David Le, John Rattanavong		Humidity: 23.7% RH			
Project: None		Barometric Pres.: 1026 mbar			
Tested by: Mark Baytan		Job Site: 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			
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 accounted for in the reference level offset including any attenuators, filters, and DC blocks. The carriers were 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).					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature 			
		Frequency Range	Max Value (dBm)	Limit (dBm)	Results
Multicarrier Multiband					
Port 1					
Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier)					
QPSK Modulation					
PCS Carrier 1, 1930.7 MHz		1	-26.0	-19	Pass
PCS Carrier 1, 1930.7 MHz		2	-21.5	-19	Pass
PCS Carrier 1, 1930.7 MHz		3	-21.3	-19	Pass
AWS Carrier 1, 2199.3 MHz		1	-29.6	-19	Pass
AWS Carrier 1, 2199.3 MHz		2	-22.9	-19	Pass
AWS Carrier 1, 2199.3 MHz		3	-23.9	-19	Pass
16-QAM Modulation					
PCS Carrier 1, 1930.7 MHz		1	-26.0	-19	Pass
PCS Carrier 1, 1930.7 MHz		2	-22.0	-19	Pass
PCS Carrier 1, 1930.7 MHz		3	-22.2	-19	Pass
AWS Carrier 1, 2199.3 MHz		1	-29.3	-19	Pass
AWS Carrier 1, 2199.3 MHz		2	-23.1	-19	Pass
AWS Carrier 1, 2199.3 MHz		3	-23.7	-19	Pass
64-QAM Modulation					
PCS Carrier 1, 1930.7 MHz		1	-26.9	-19	Pass
PCS Carrier 1, 1930.7 MHz		2	-20.2	-19	Pass
PCS Carrier 1, 1930.7 MHz		3	-20.6	-19	Pass
AWS Carrier 1, 2199.3 MHz		1	-29.4	-19	Pass
AWS Carrier 1, 2199.3 MHz		2	-23.2	-19	Pass
AWS Carrier 1, 2199.3 MHz		3	-23.8	-19	Pass
256-QAM Modulation					
PCS Carrier 1, 1930.7 MHz		1	-26.6	-19	Pass
PCS Carrier 1, 1930.7 MHz		2	-20.1	-19	Pass
PCS Carrier 1, 1930.7 MHz		3	-21.6	-19	Pass
AWS Carrier 1, 2199.3 MHz		1	-29.7	-19	Pass
AWS Carrier 1, 2199.3 MHz		2	-23.4	-19	Pass
AWS Carrier 1, 2199.3 MHz		3	-24.2	-19	Pass

BAND EDGE

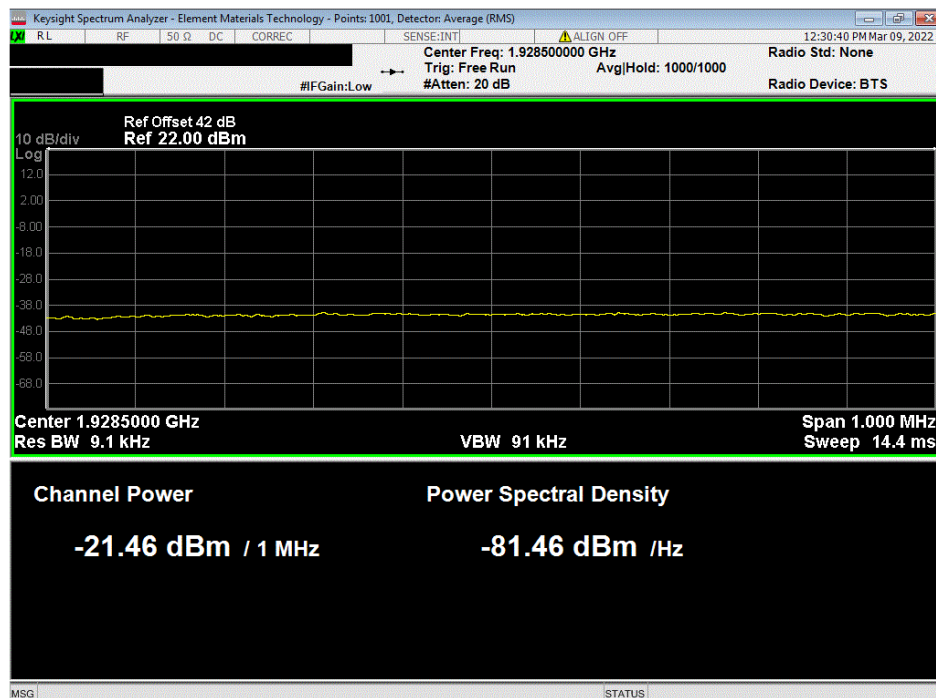


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.0	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-21.5	-19	Pass			

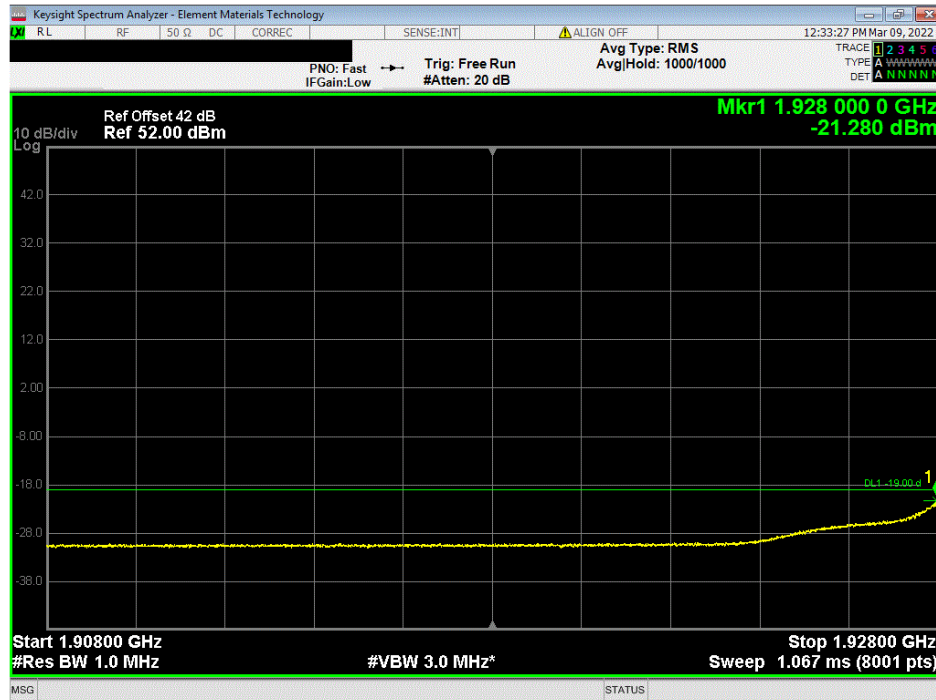


BAND EDGE



TbTtx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.3	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-29.6	-19	Pass			

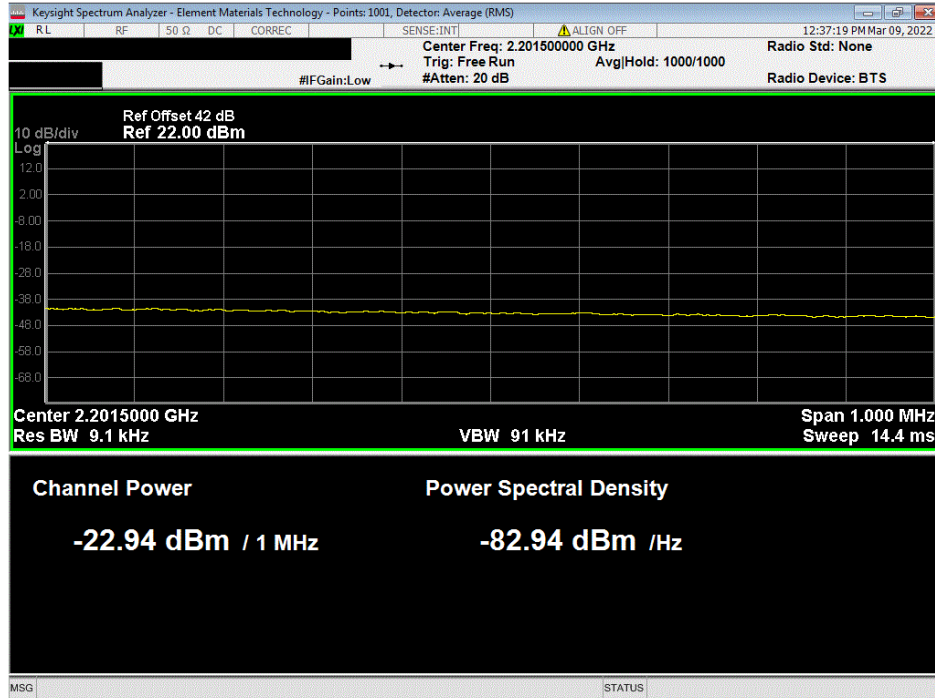


BAND EDGE

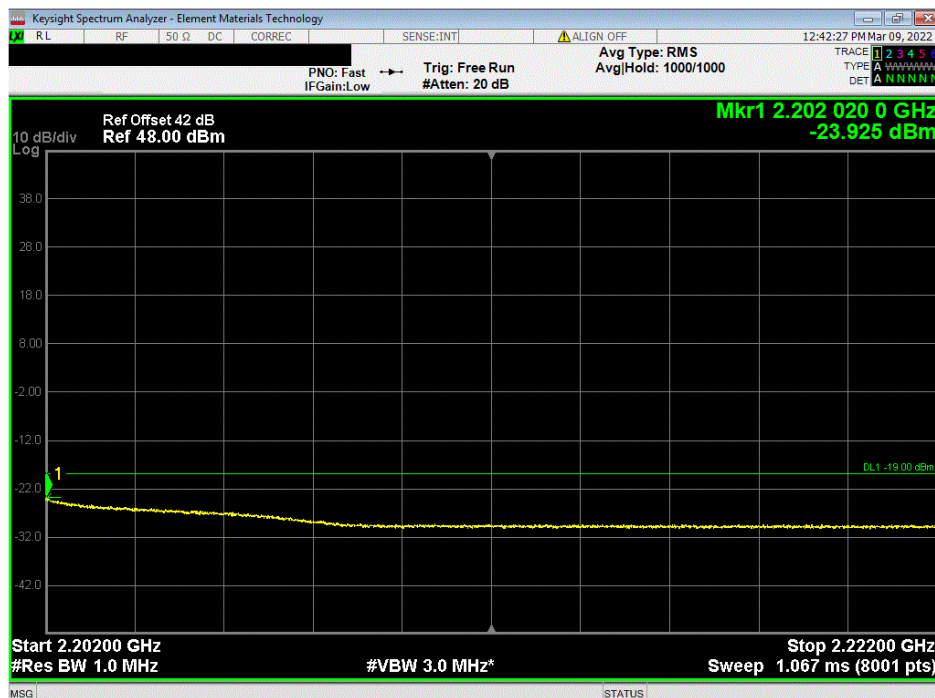


TbTtX 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.9	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.9	-19	Pass			

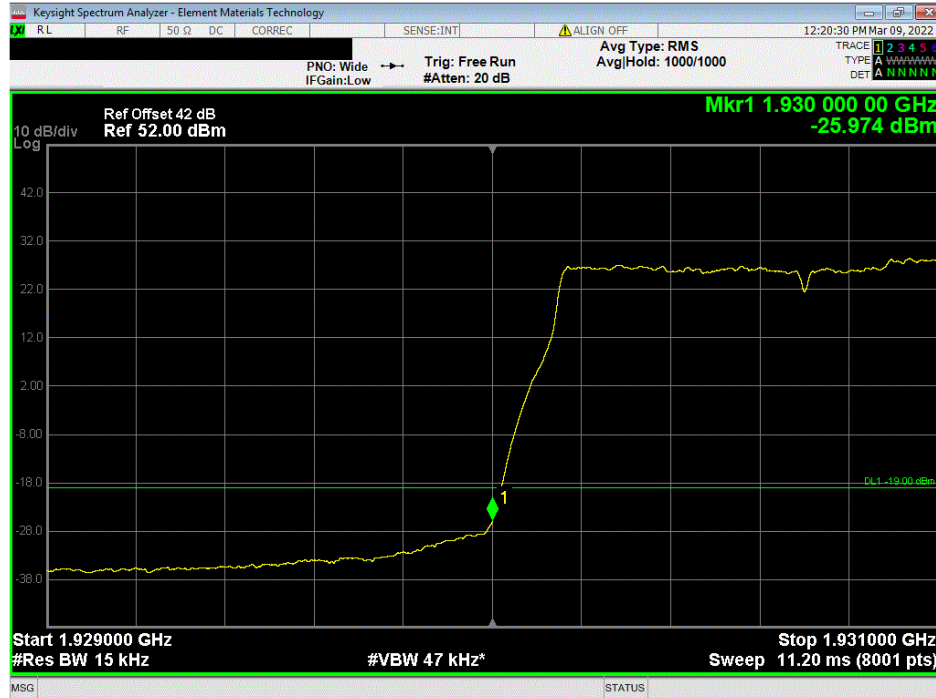


BAND EDGE

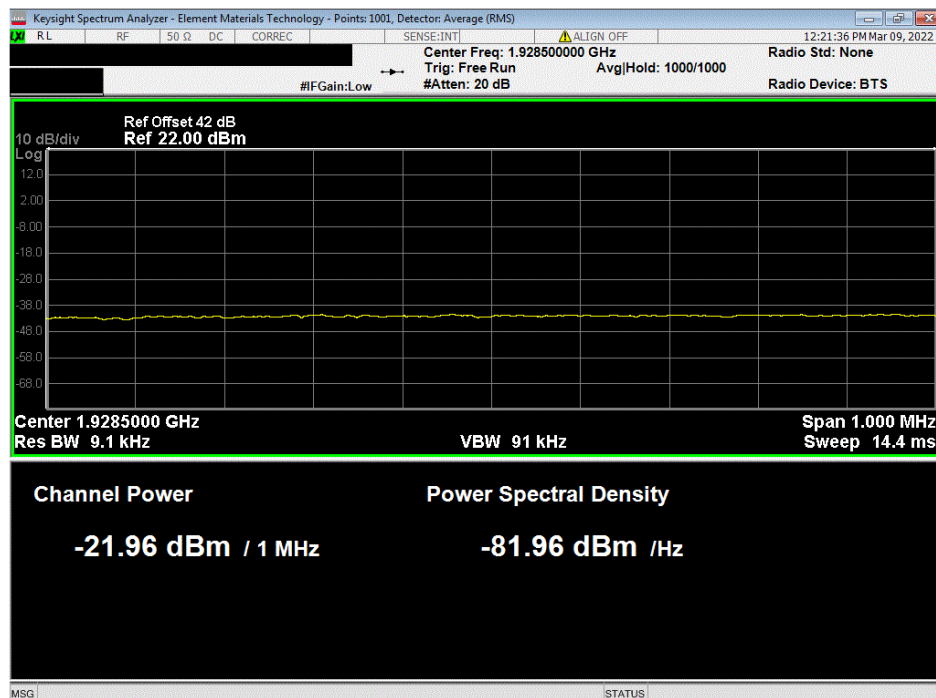


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.0	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-22.0	-19	Pass			

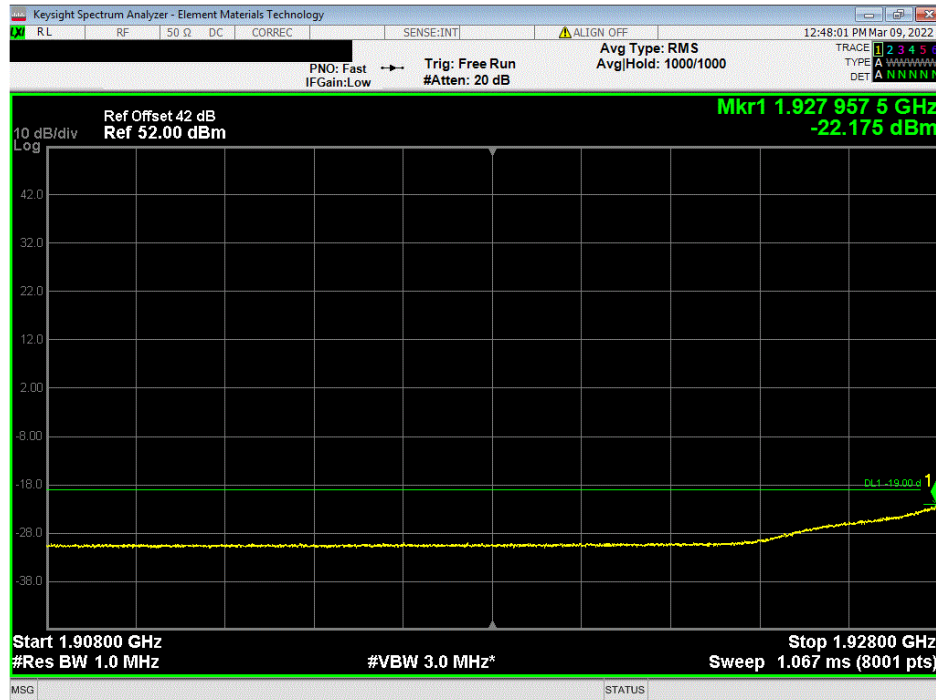


BAND EDGE



TbTtx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-22.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-29.3	-19	Pass			

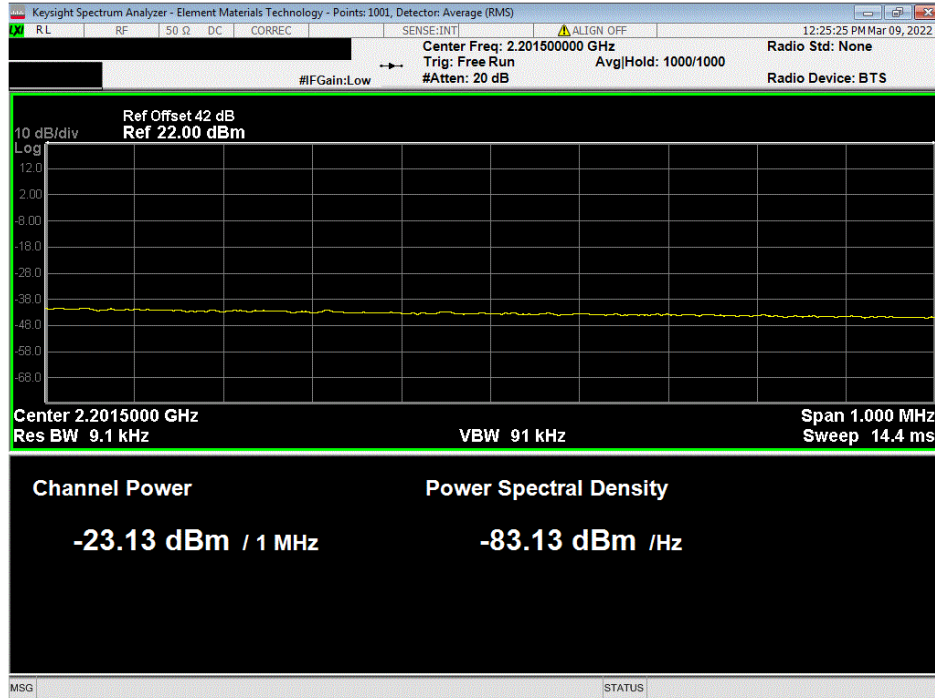


BAND EDGE

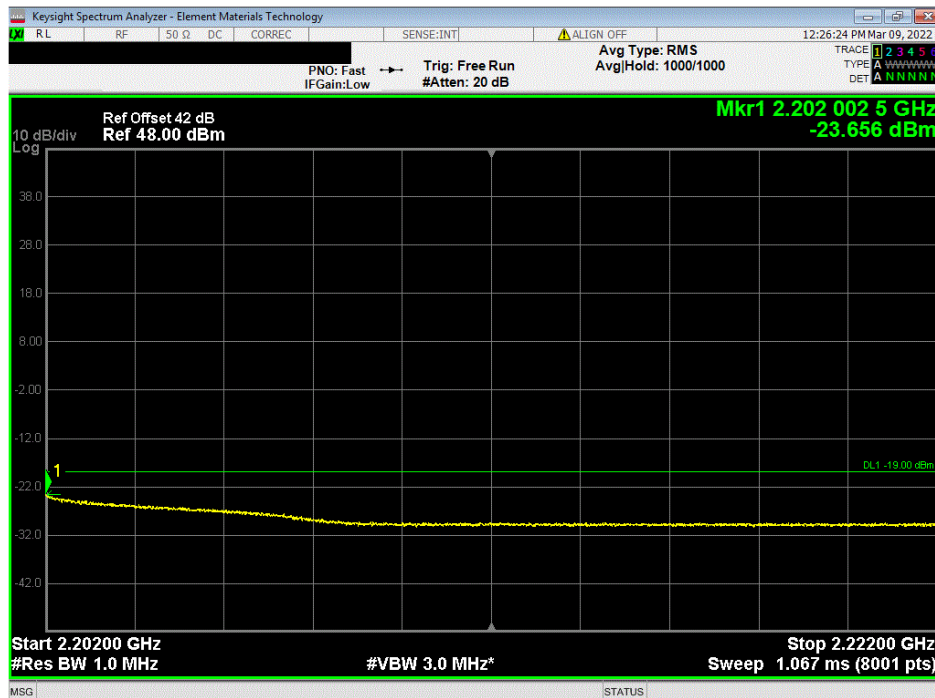


TbTtX 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.1	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.7	-19	Pass			

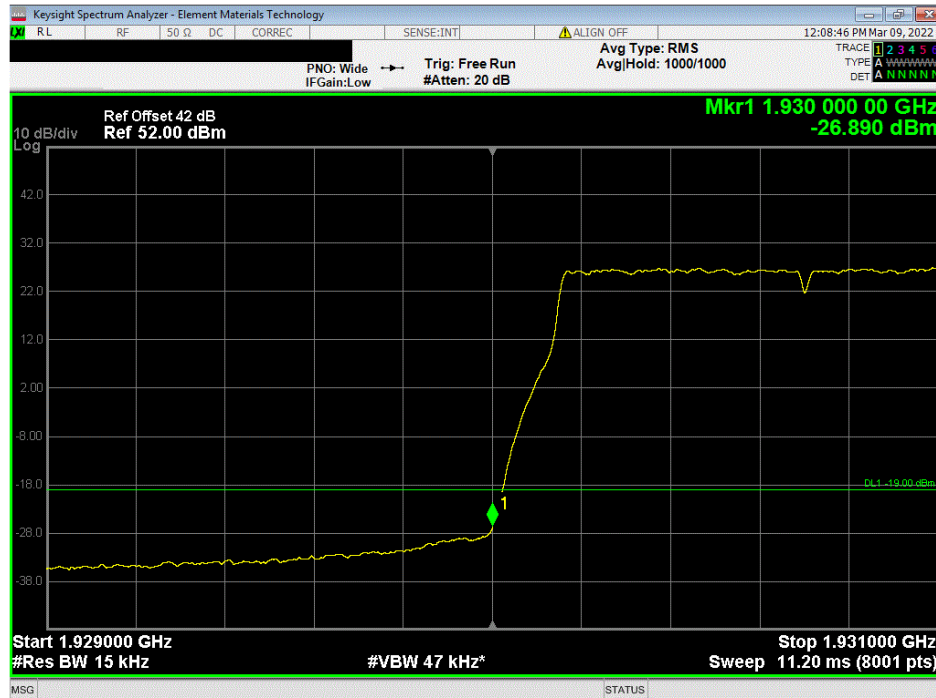


BAND EDGE

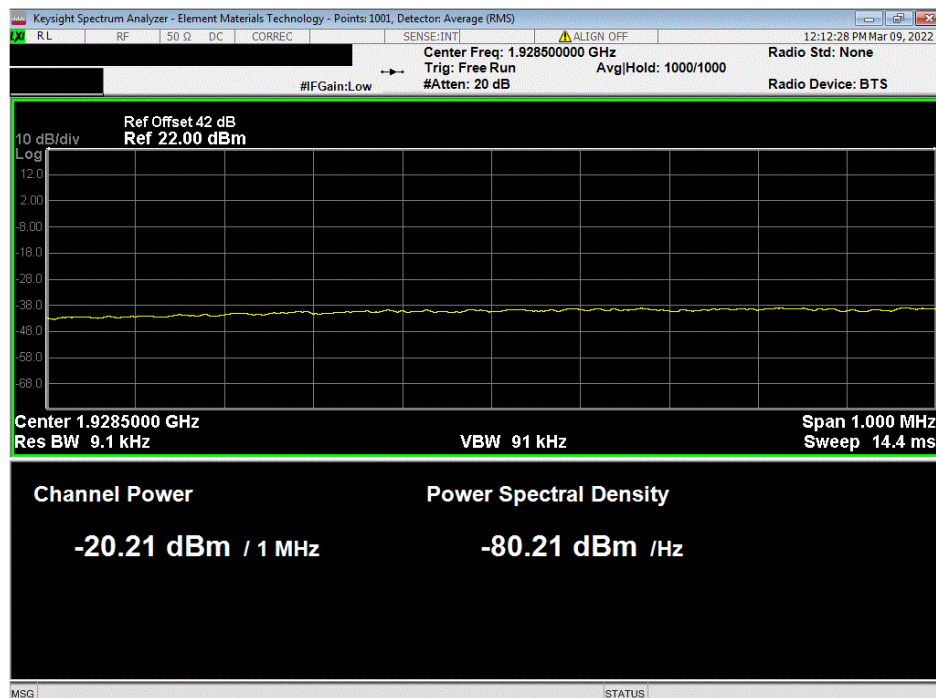


TbTtx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.9	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-20.2	-19	Pass			

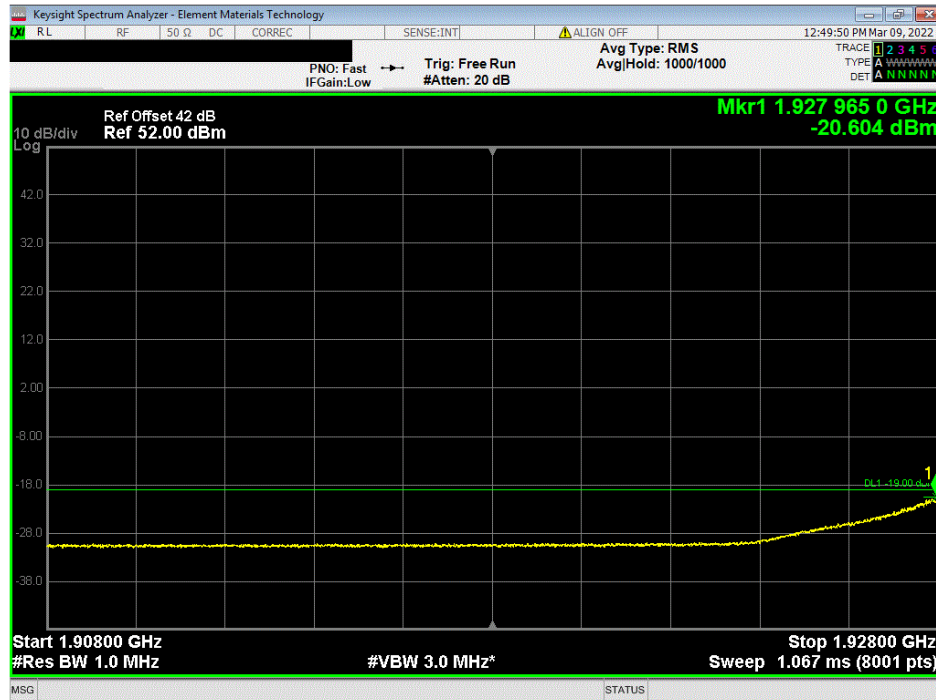


BAND EDGE



TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-20.6	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-29.4	-19	Pass			

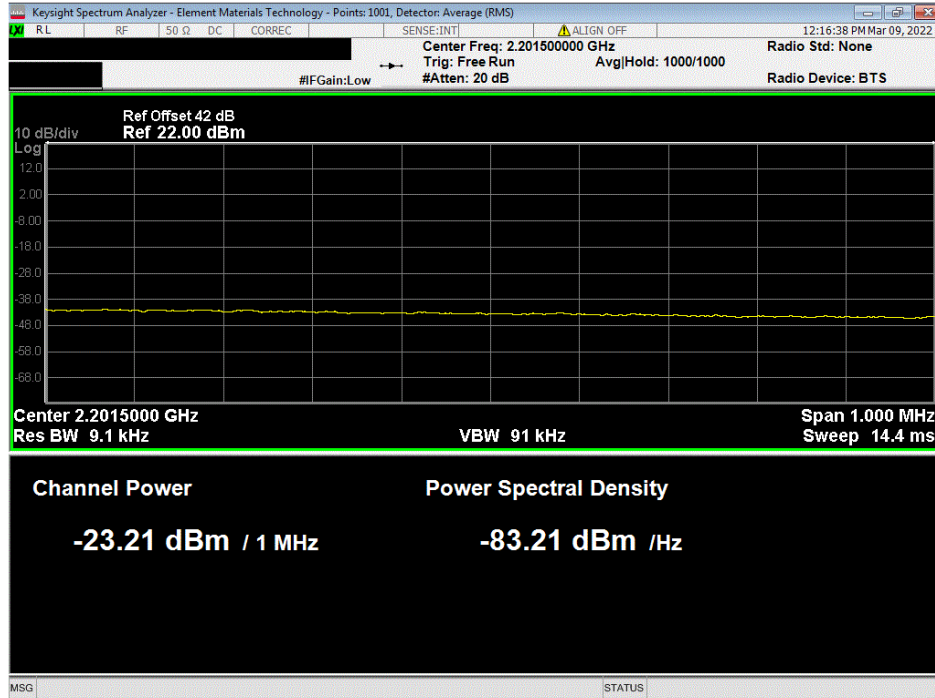


BAND EDGE

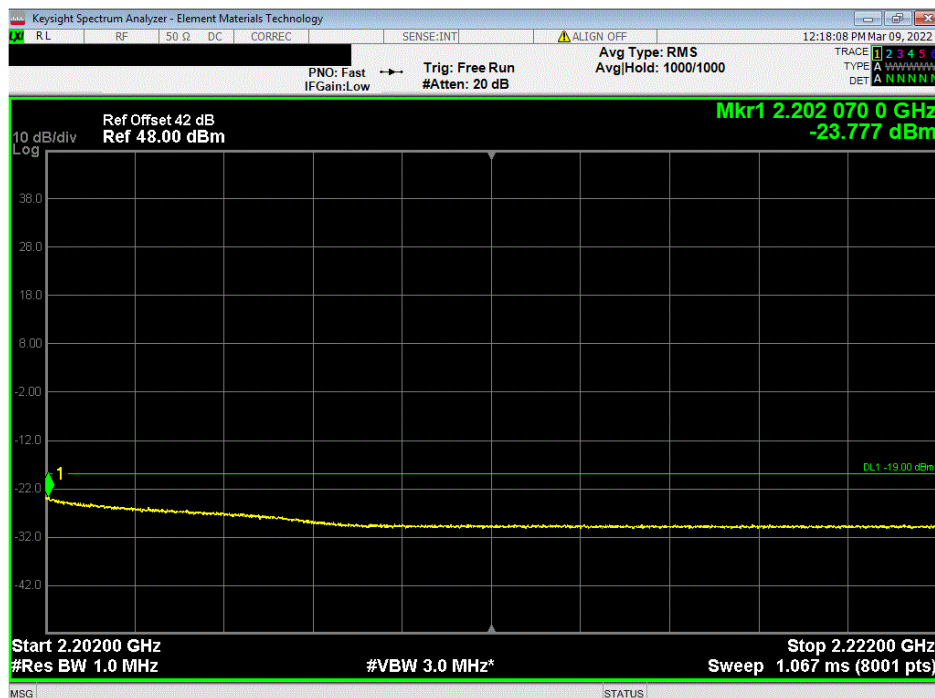


TbTtX 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-23.8	-19	Pass			

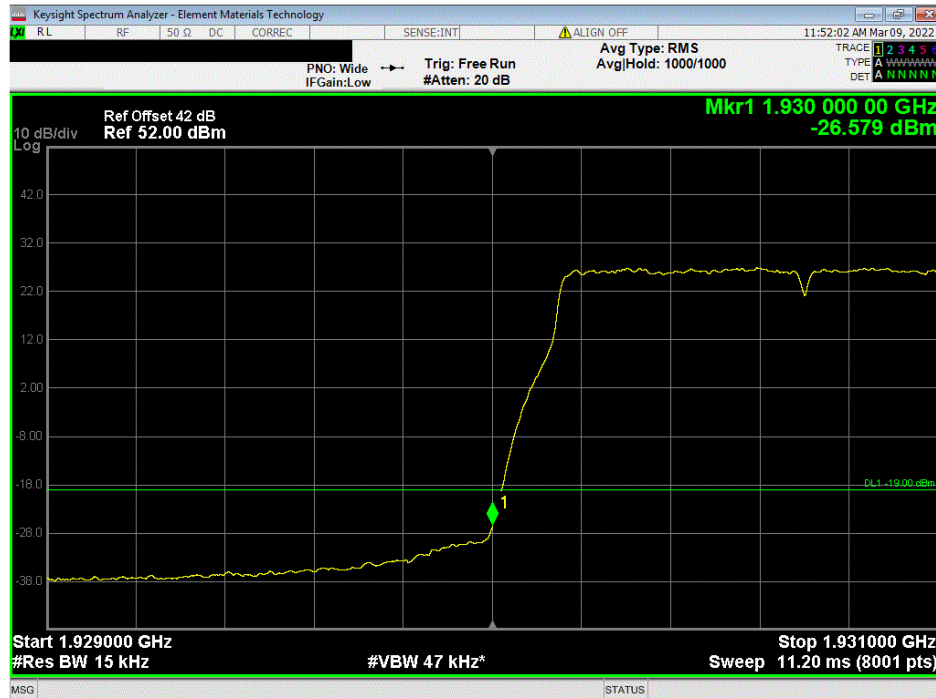


BAND EDGE

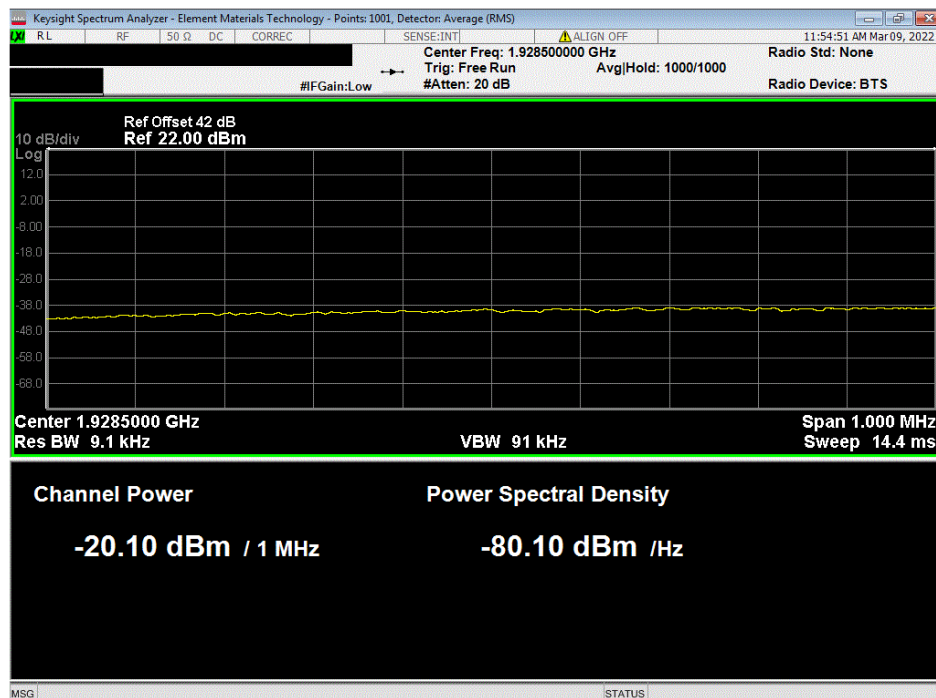


TbTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-26.6	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-20.1	-19	Pass			

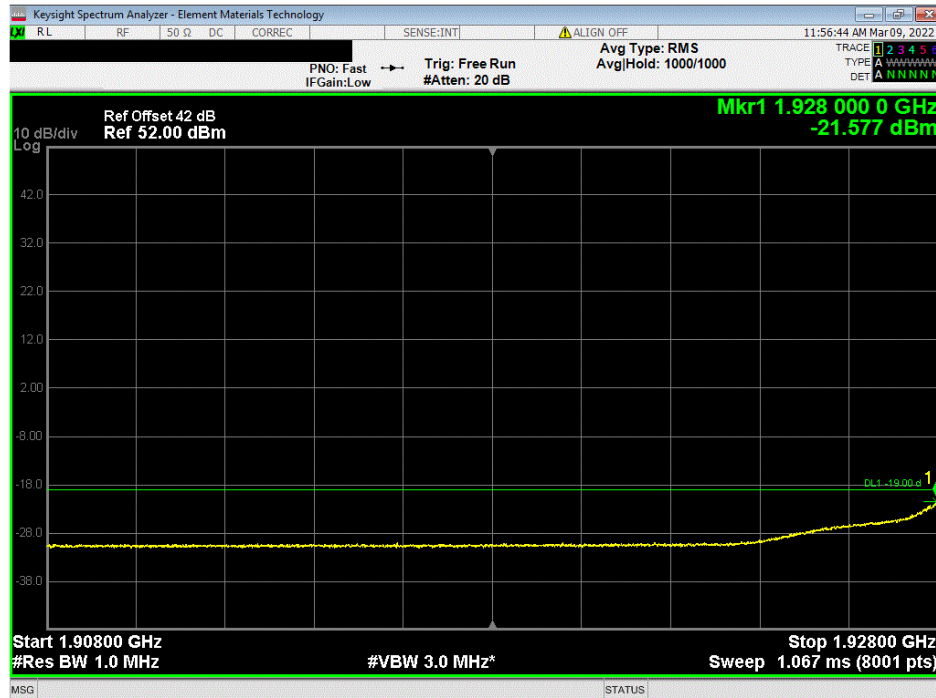


BAND EDGE



TMTx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1930.7 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-21.6	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
1	-29.7	-19	Pass			

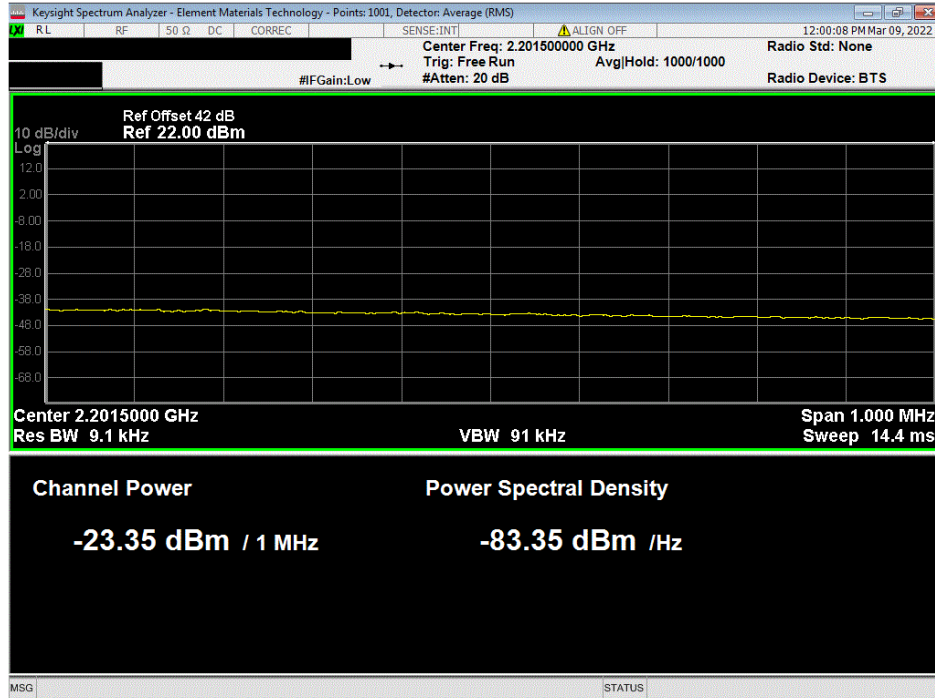


BAND EDGE



TbTtx 2021.12.14.1 XMR 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
2	-23.4	-19	Pass			



Multicarrier Multiband, Port 1, Test Case 1: PCS Band LTE1.4 (2 Carriers), AWS Band LTE1.4 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2199.3 MHz						
Frequency Range	Max Value (dBm)	Limit (dBm)	Results			
3	-24.2	-19	Pass			

