

SPURIOUS CONDUCTED EMISSIONS



XMit 2023.02.14.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	SA4018-20	TYE	2022-09-13	2023-09-13
Block - DC	Fairview Microwave	SD3239	ANE	2023-02-16	2024-02-16
Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

The reference level offset for the fundamental screen capture was based on a measured value of the loss between the spectrum analyzer and the EUT which was verified at the time of test. The remaining screen capture(s) use an internal transducer factor on the analyzer to correct the displayed trace based on the cable loss over frequency. The reference level offset for the additional screen capture(s) is then based on the expected attenuator value and any other losses.

Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

Remaining Screen capture(s) Offset = "Internal" cable loss factor not shown on screen capture + Ref Lvl Offset showing expected attenuator value and any other losses

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TWTx 2022.06.03.0 XMR 2023.02.14.0

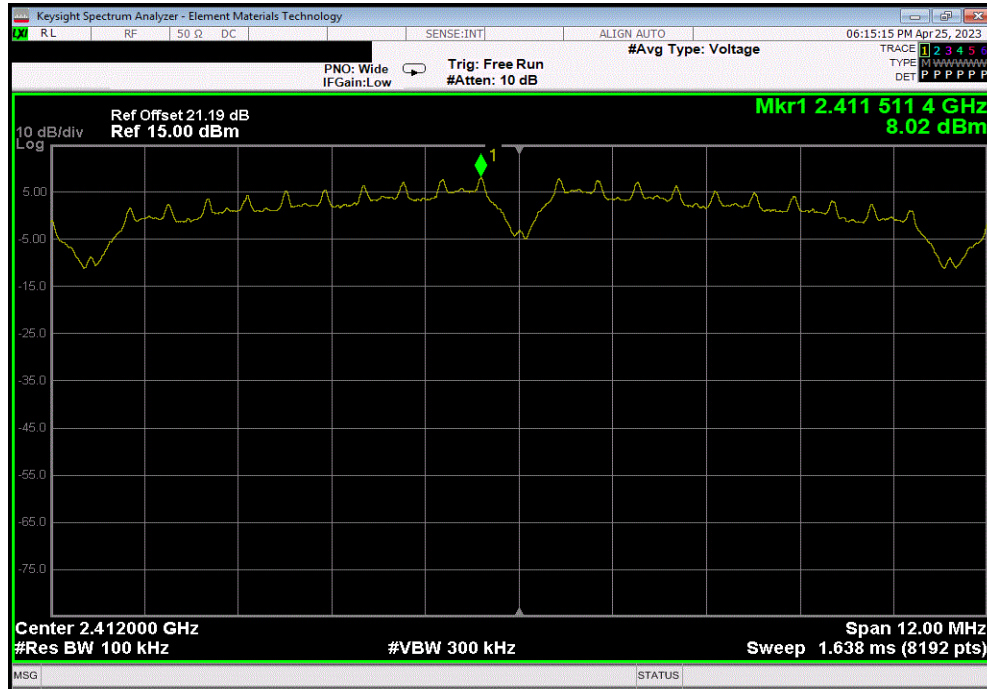
EUT: V700		Work Order: WTV0085				
Serial Number: BWL7-000968		Date: 04/26/2023				
Customer: Motorola Solutions, Inc.		Temperature: 21.3°C				
Attendees: Navaid Karimi		Humidity: 45%				
Project: None		Barometric Pres.: 1010 mbar				
Tested by: Marty Martin		Power: 4.2VDC via Battery				
TEST SPECIFICATIONS		Job Site: TX07				
FCC 15.247:2023		Test Method				
RSS-247 Issue 2:2017		ANSI C63.10:2013				
COMMENTS						
All measurment path looses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	WTV0085-1	Signature 				
		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
2400 MHz - 2483.5 MHz Band						
802.11(b) 1 Mbps						
		Low Channel 1, 2412 MHz	Fundamental	2411.51	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	3794.9	-62.52	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24165.24	-57.61	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2437.52	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3971.5	-61.58	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	23855.45	-57.02	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.02	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3851.23	-60.25	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24027.9	-56.51	-30 Pass
802.11(b) 11 Mbps						
		Low Channel 1, 2412 MHz	Fundamental	2411.06	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	2386.68	-57.65	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24339.21	-57.66	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2437.13	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3829.92	-60.94	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24070.63	-58.05	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2461.63	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3867.98	-60.83	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24098.1	-57.4	-30 Pass
802.11(g) 6 Mbps						
		Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	2386.68	-52.06	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24101.15	-51.41	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3784.24	-54.84	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24172.87	-51.35	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.28	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3843.62	-53.76	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24143.88	-50.7	-30 Pass
802.11(g) 36 Mbps						
		Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	2386.68	-50.82	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24954.22	-51.01	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3804.04	-54.8	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24178.98	-51.24	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.29	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3893.86	-54.32	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24343.79	-50.62	-30 Pass
802.11(g) 54 Mbps						
		Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	3845.14	-56.95	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	23409.84	-51.75	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3881.68	-55.06	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24497.92	-51.41	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.28	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3737.05	-54.83	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24024.84	-50.35	-30 Pass
802.11(n) MCS0						
		Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	3832.96	-55.18	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	23966.85	-50.52	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2438.3	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3867.98	-54.23	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24133.2	-49.74	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.27	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	10662.46	-53.25	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	23853.93	-49.88	-30 Pass
802.11(n) MCS7						
		Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A
		Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	3814.69	-55.43	-30 Pass
		Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	23994.32	-50.79	-30 Pass
		Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A
		Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	3788.81	-54.43	-30 Pass
		Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	23945.49	-49.46	-30 Pass
		High Channel 11, 2462 MHz	Fundamental	2463.28	N/A	N/A
		High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	3872.54	-53.54	-30 Pass
		High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24974.06	-50	-30 Pass

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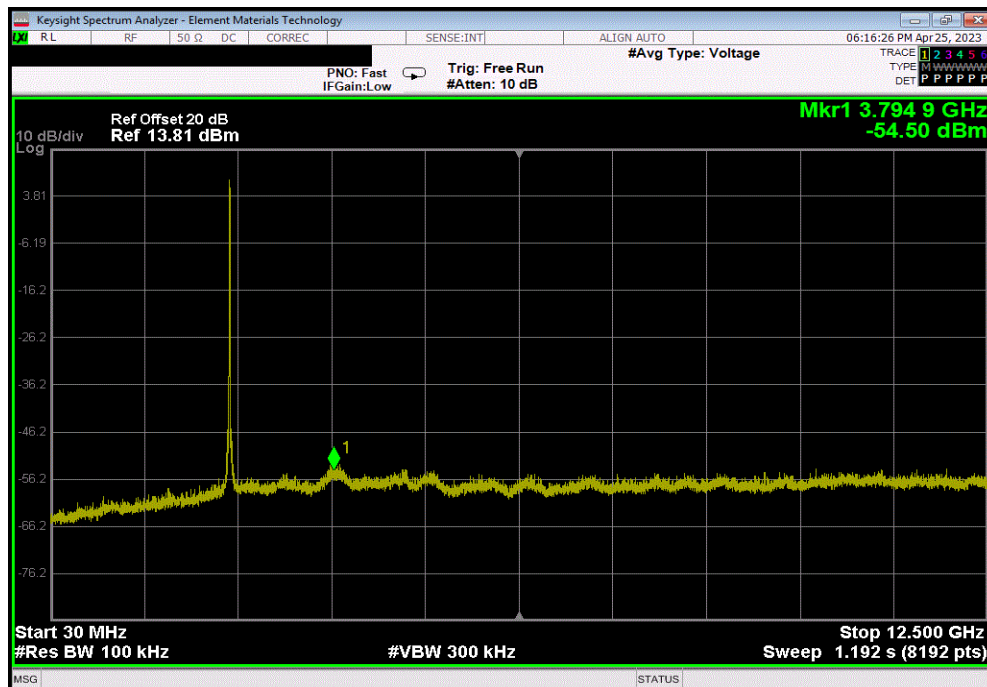


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2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2411.51	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3794.9	-62.52	-30	Pass		

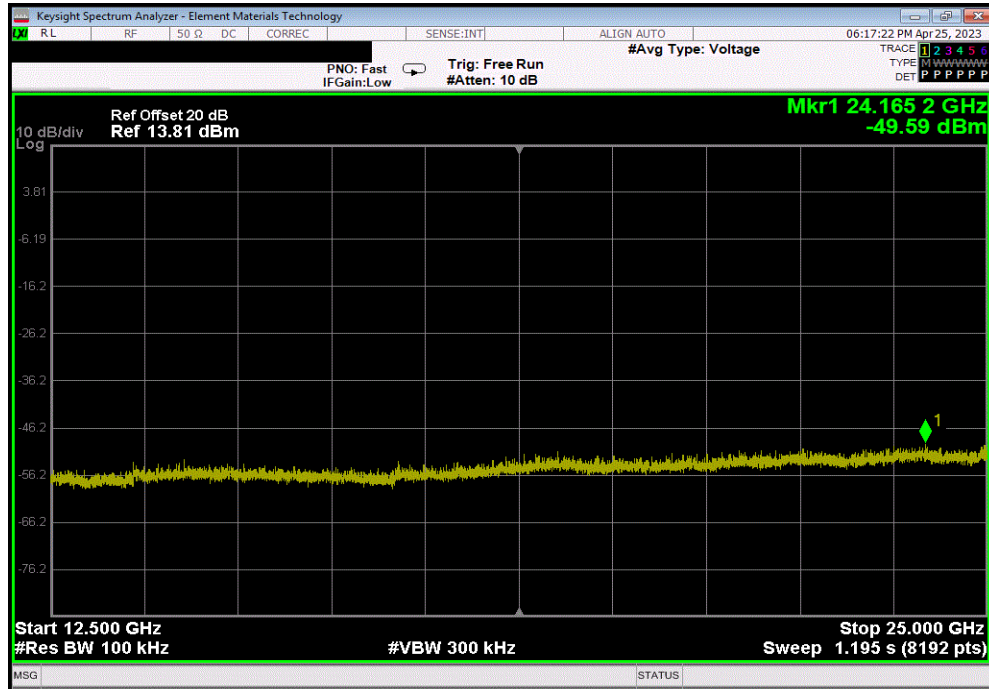


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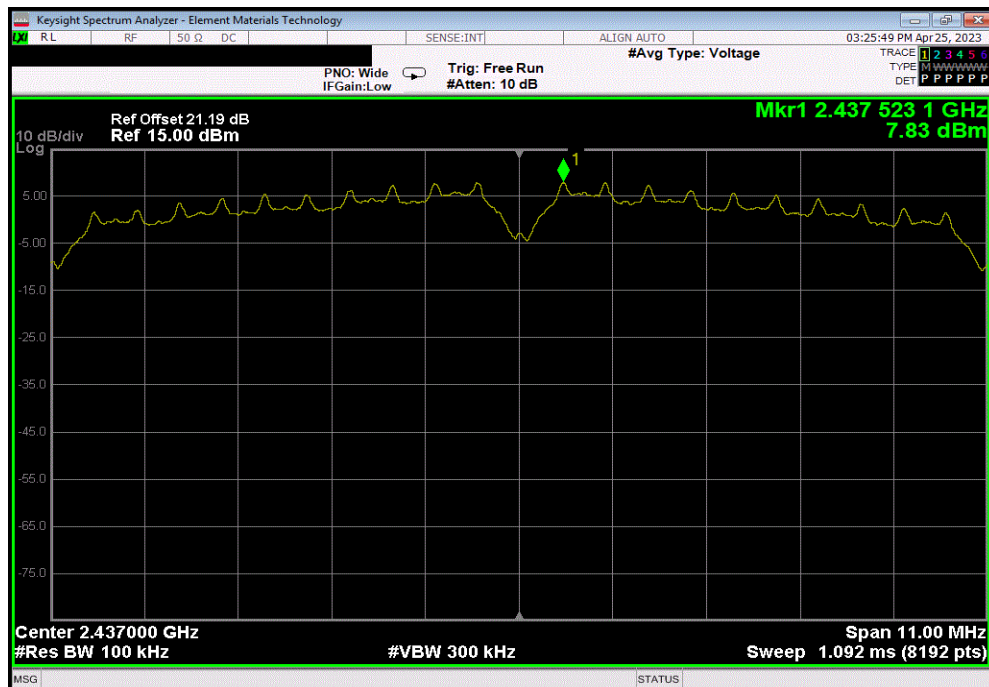


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2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24165.24	-57.61	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2437.52	N/A	N/A	N/A	

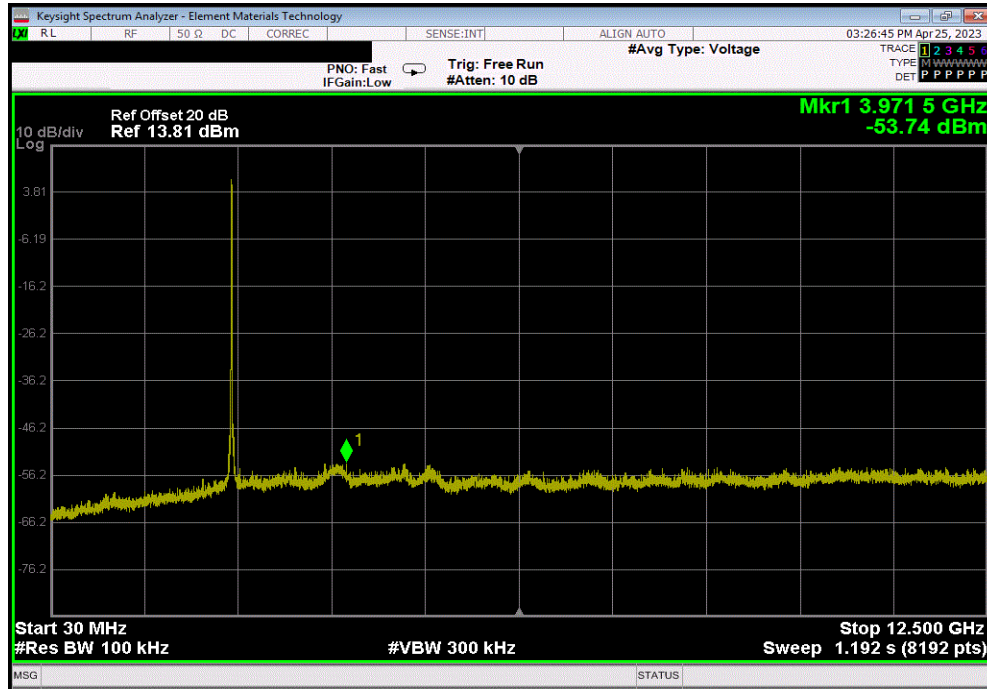


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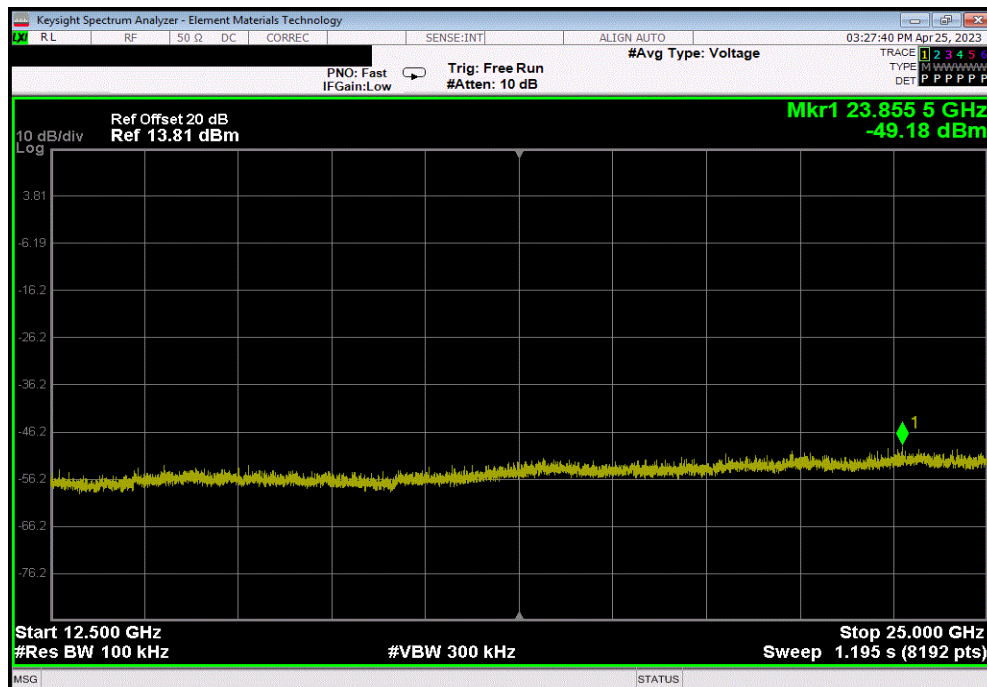


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2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3971.5	-61.58	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23855.45	-57.02	-30	Pass	

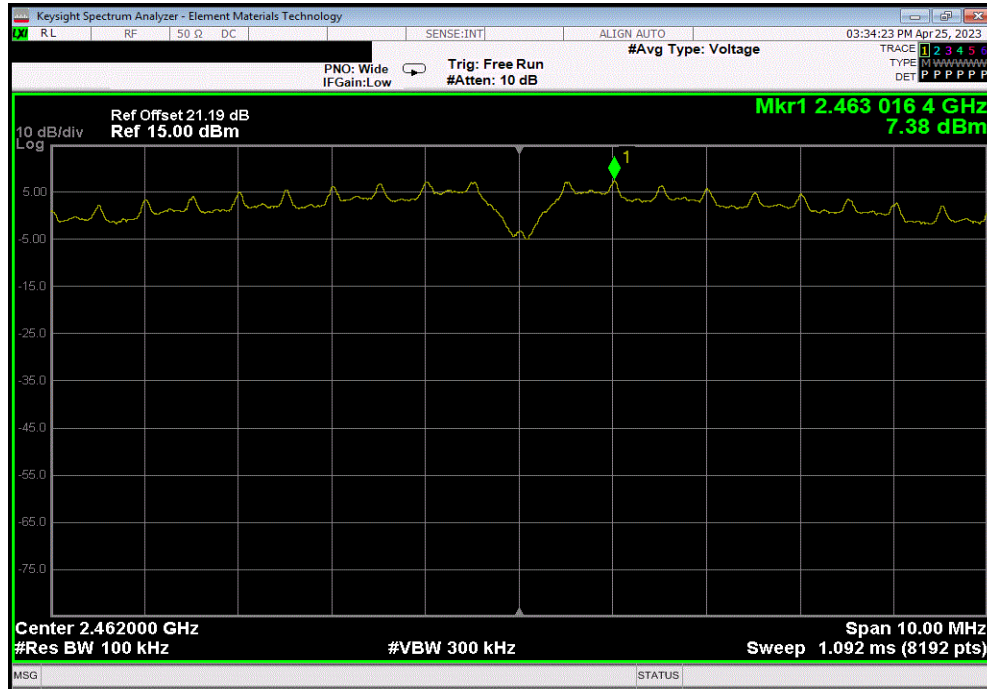


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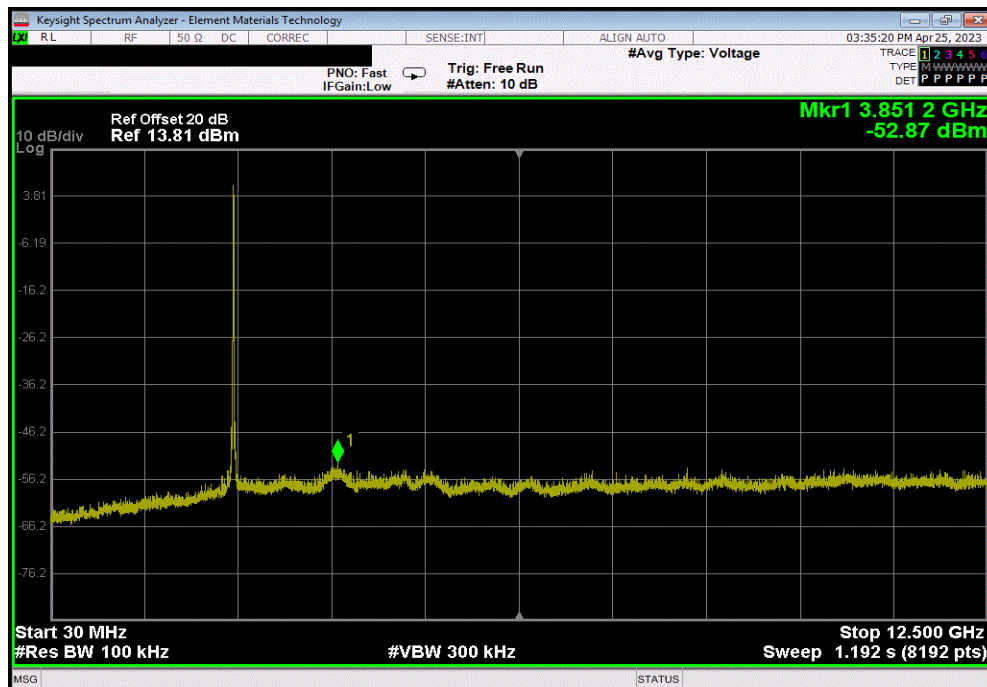


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2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2463.02	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3851.23	-60.25	-30	Pass		

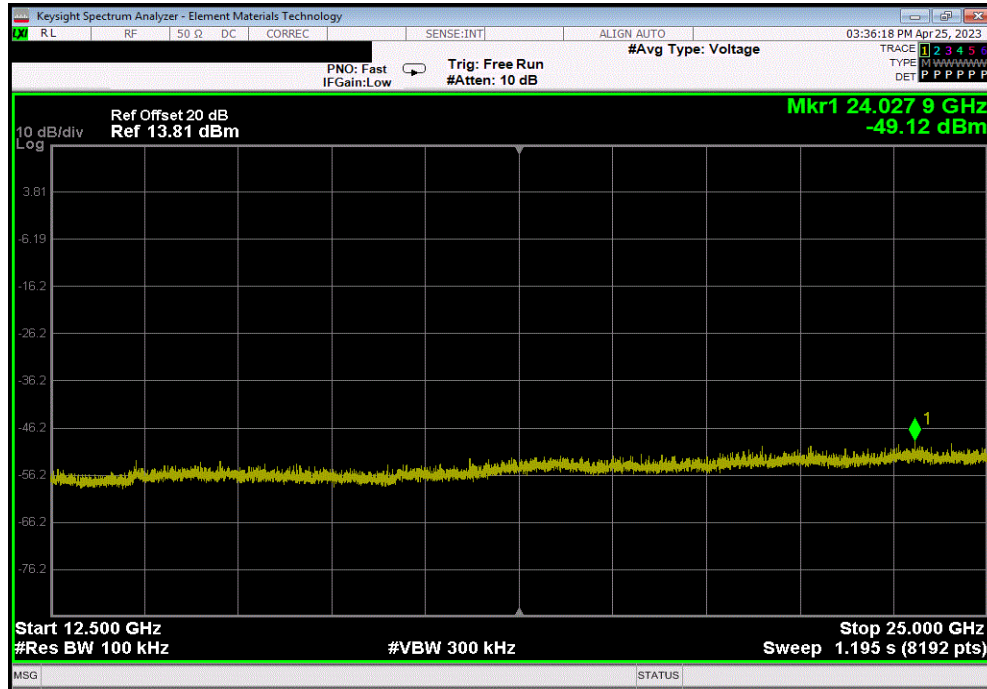


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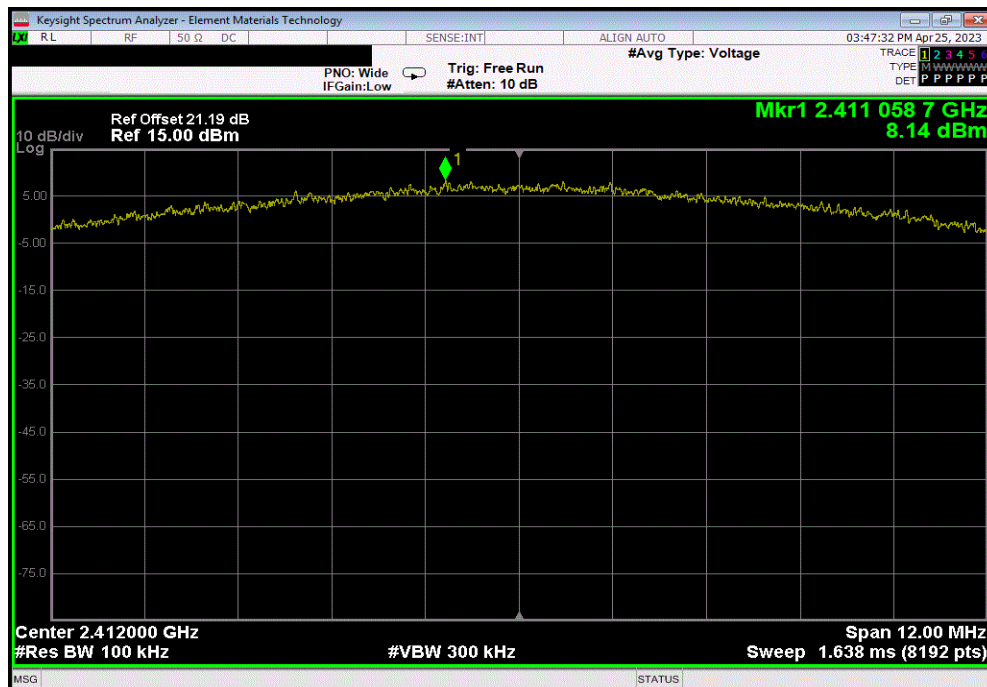


TbTtX 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24027.9	-56.51	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2411.06	N/A	N/A	N/A	

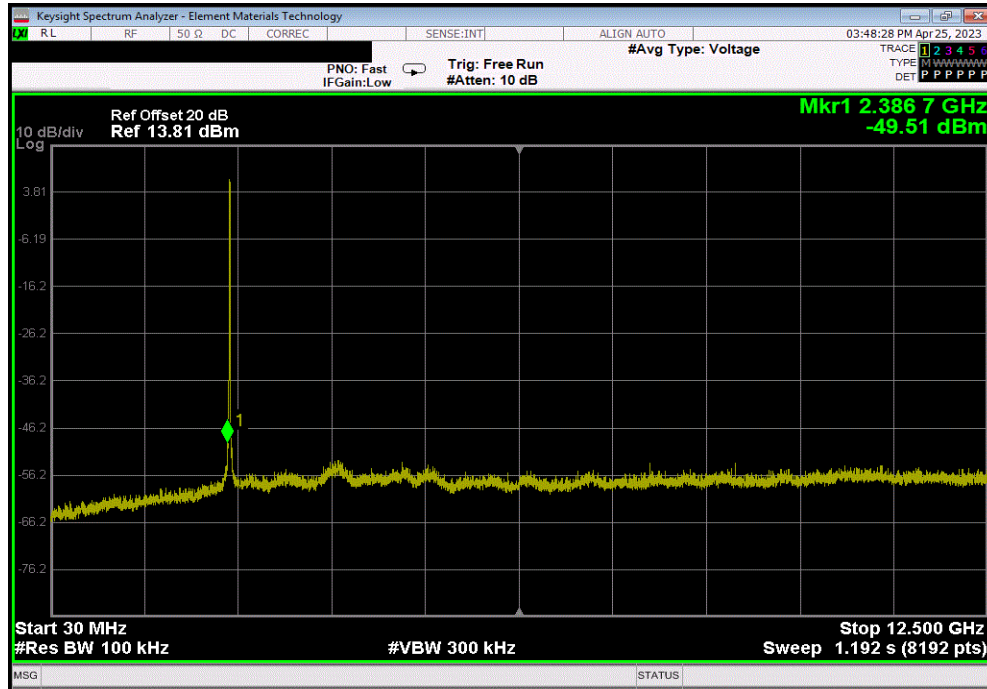


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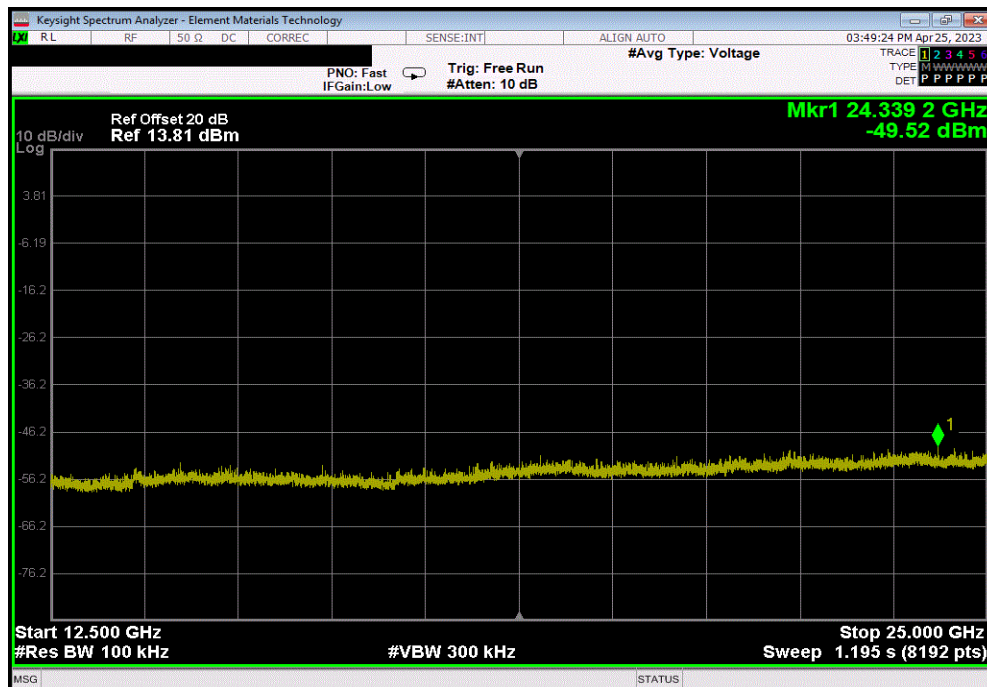


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2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	2386.68	-57.65	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24339.21	-57.66	-30	Pass	

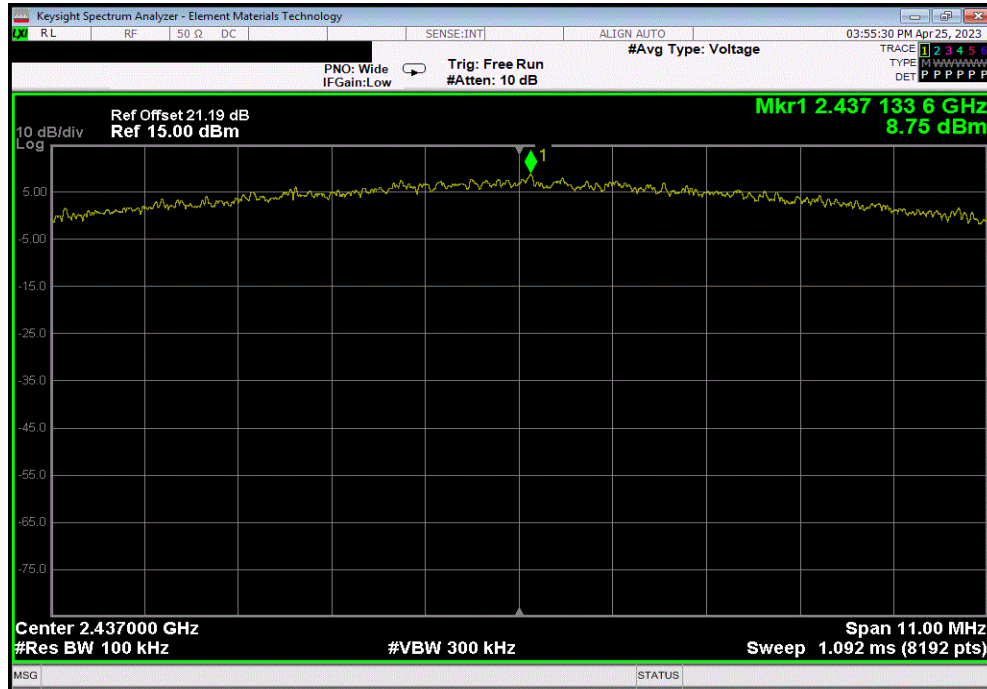


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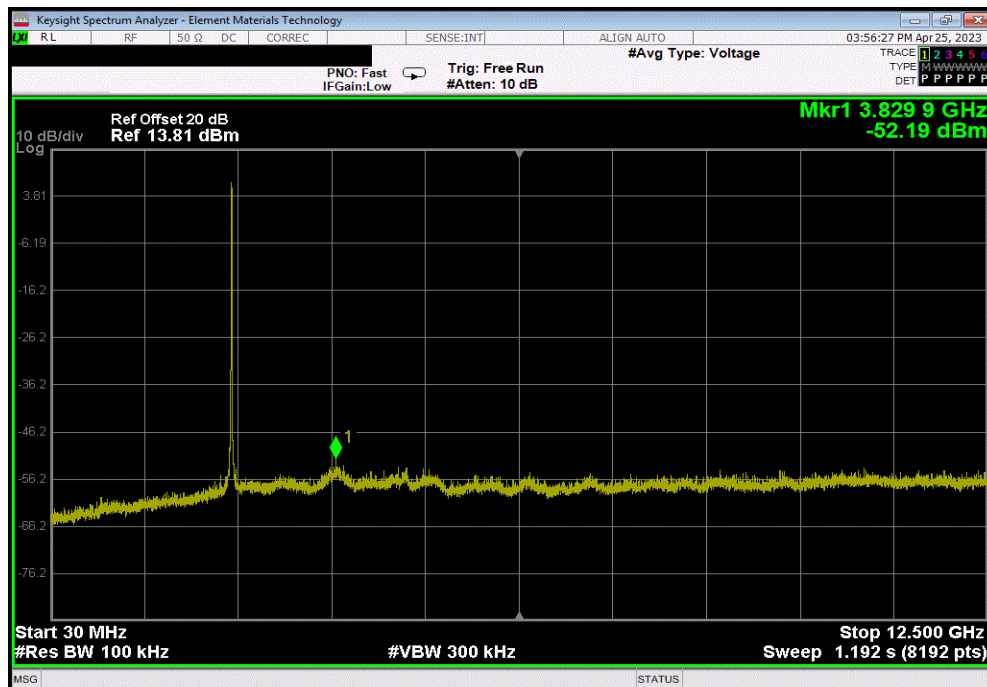


TbTtX 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2437.13	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3829.92	-60.94	-30	Pass		

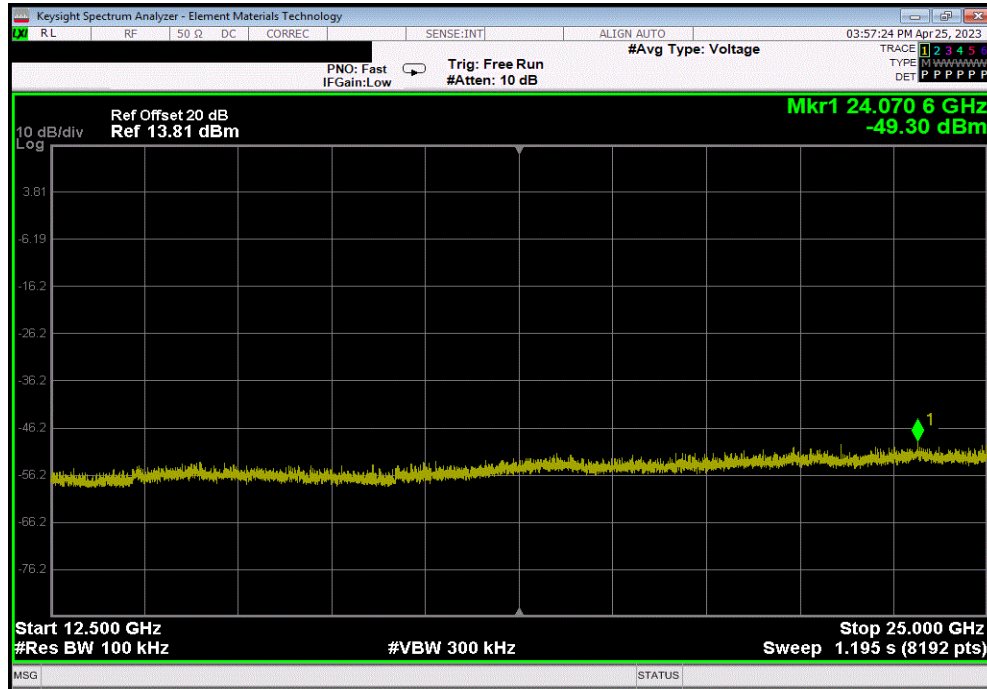


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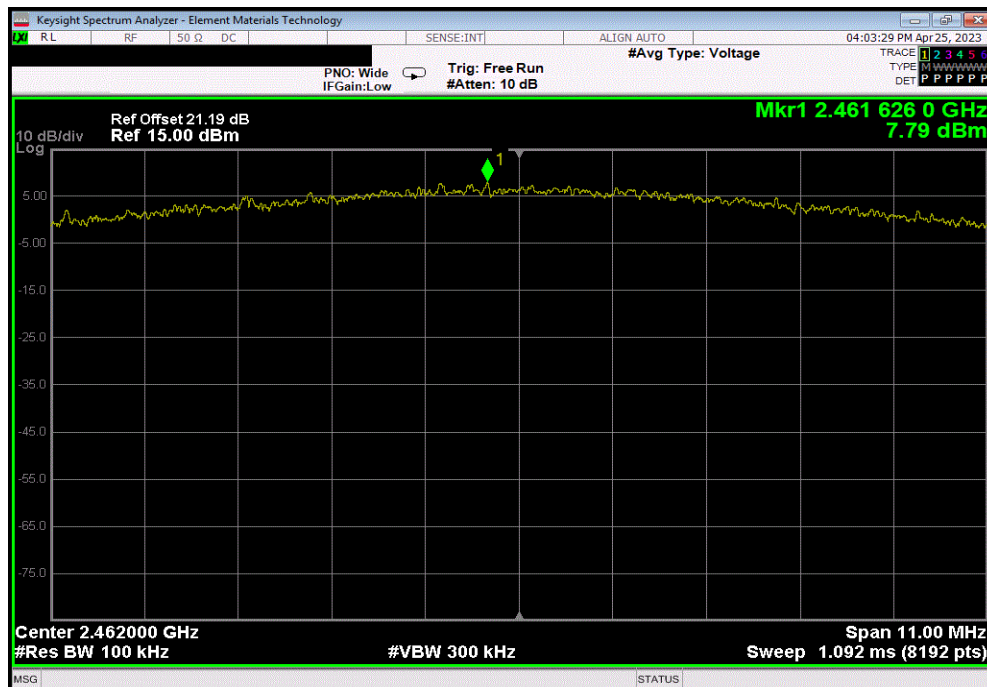


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2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24070.63	-58.05	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2461.63	N/A	N/A	N/A	

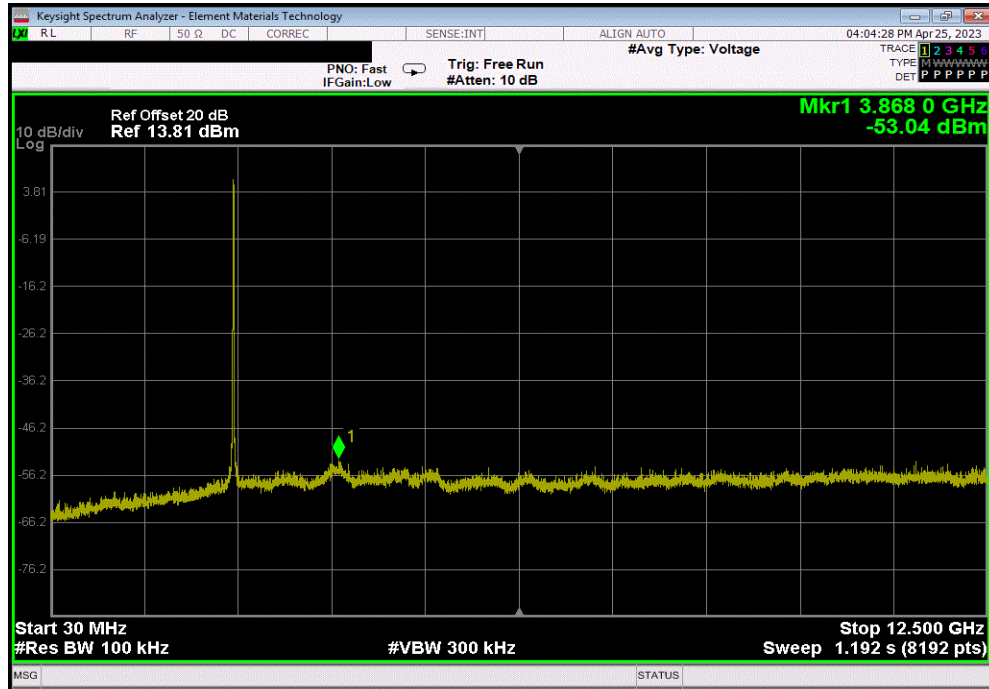


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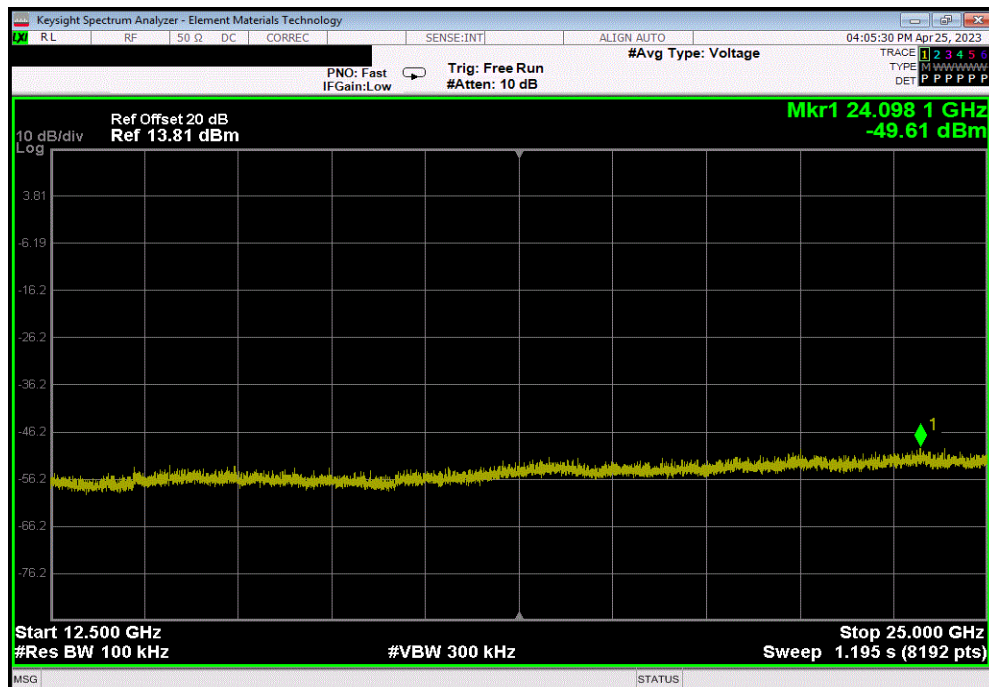


TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3867.98	-60.83	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24098.1	-57.4	-30	Pass	

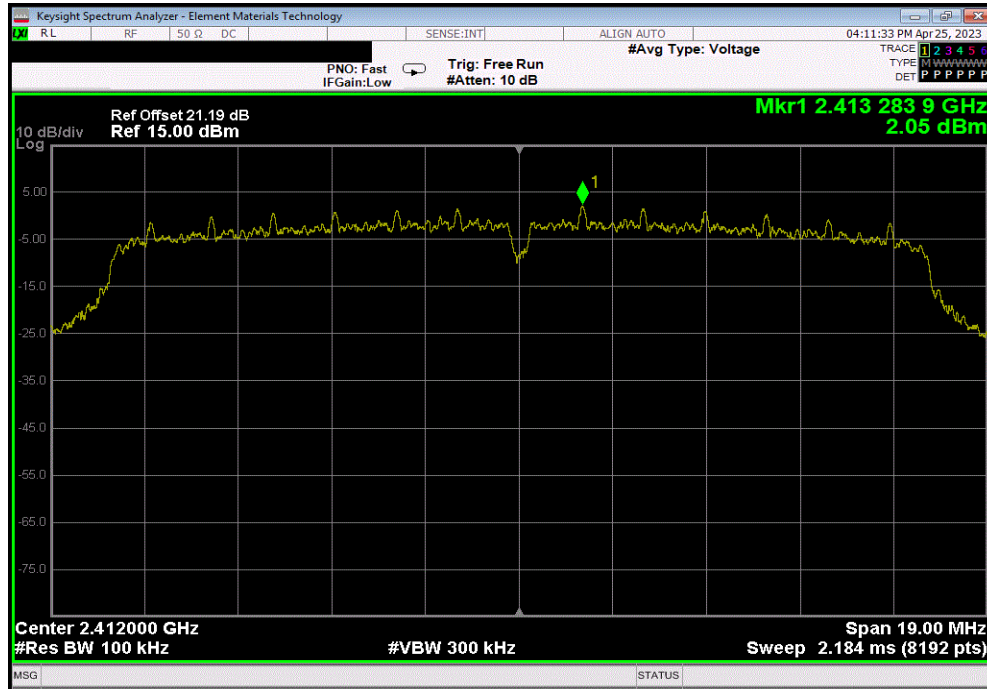


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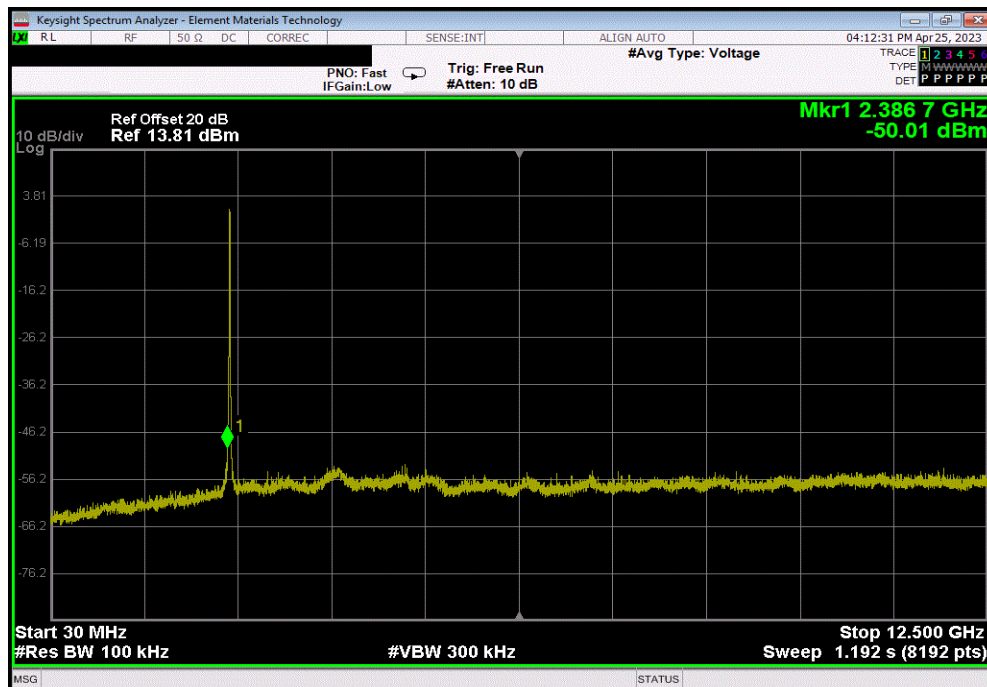


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2413.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	2386.68	-52.06	-30	Pass		

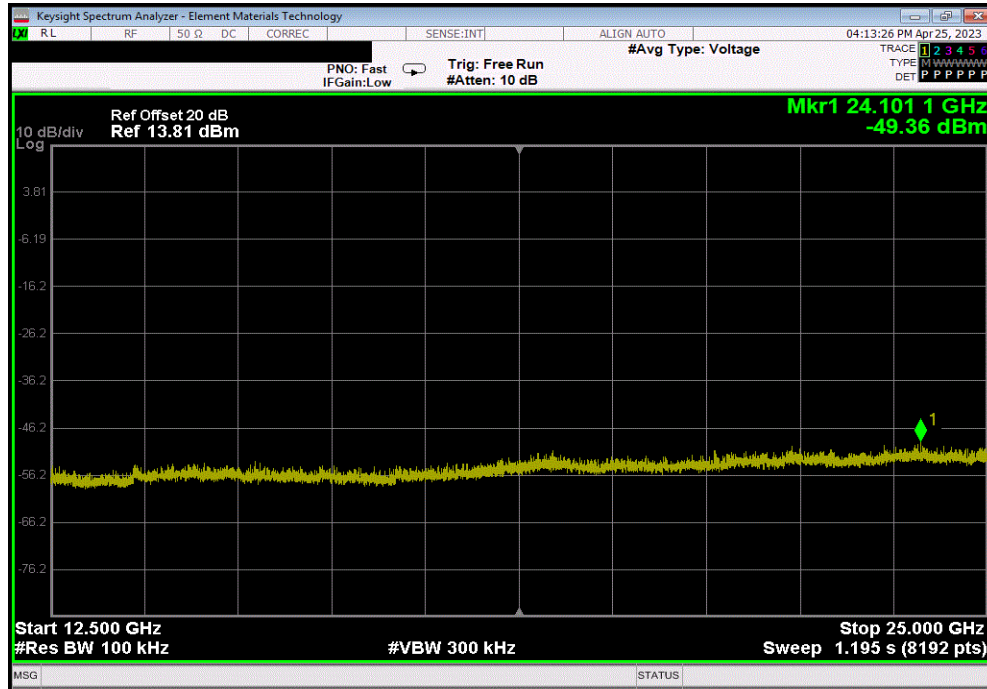


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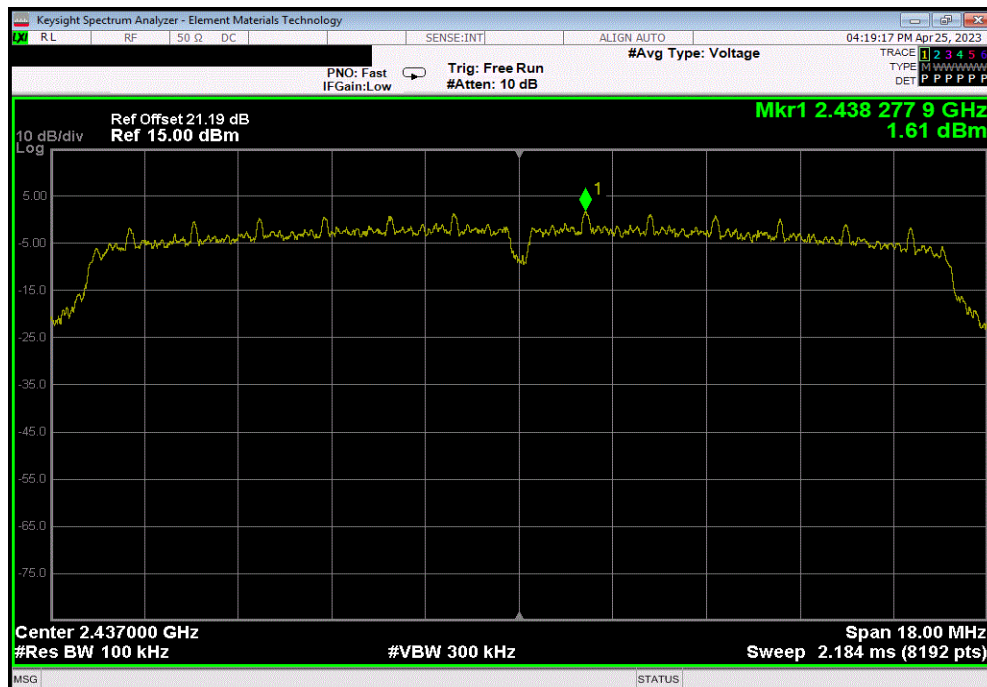


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24101.15	-51.41	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2438.28	N/A	N/A	N/A	

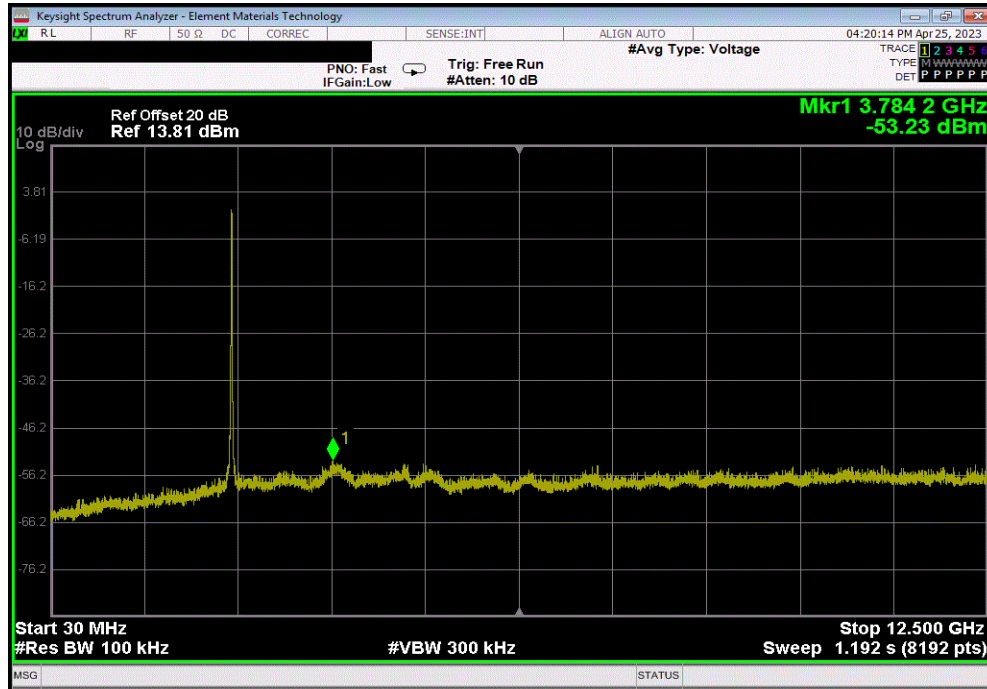


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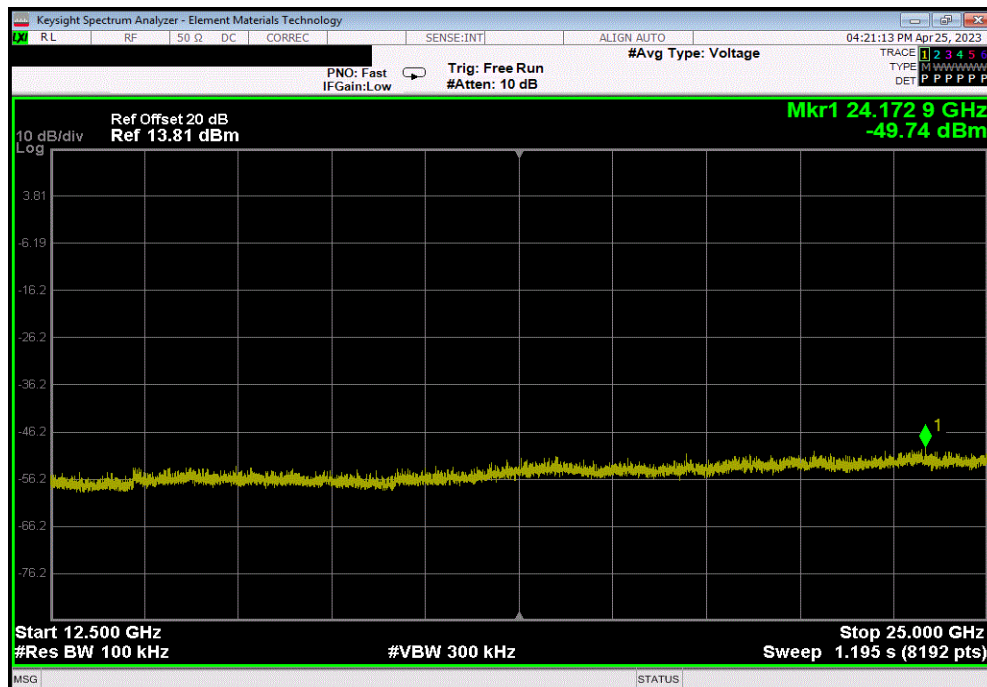


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3784.24	-54.84	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24172.87	-51.35	-30	Pass	

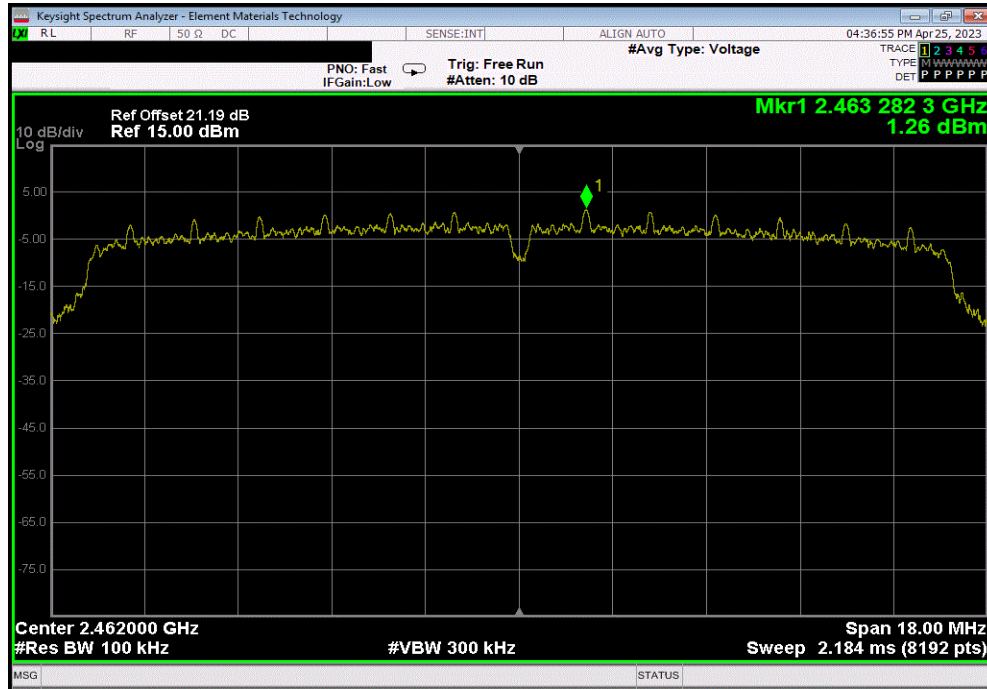


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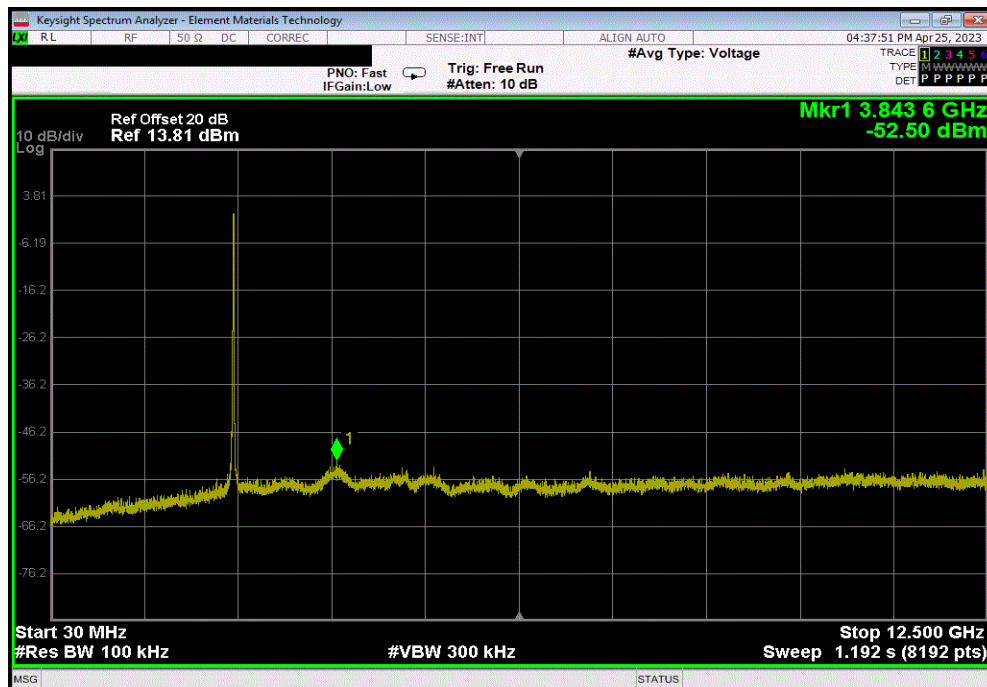


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2463.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3843.62	-53.76	-30	Pass		

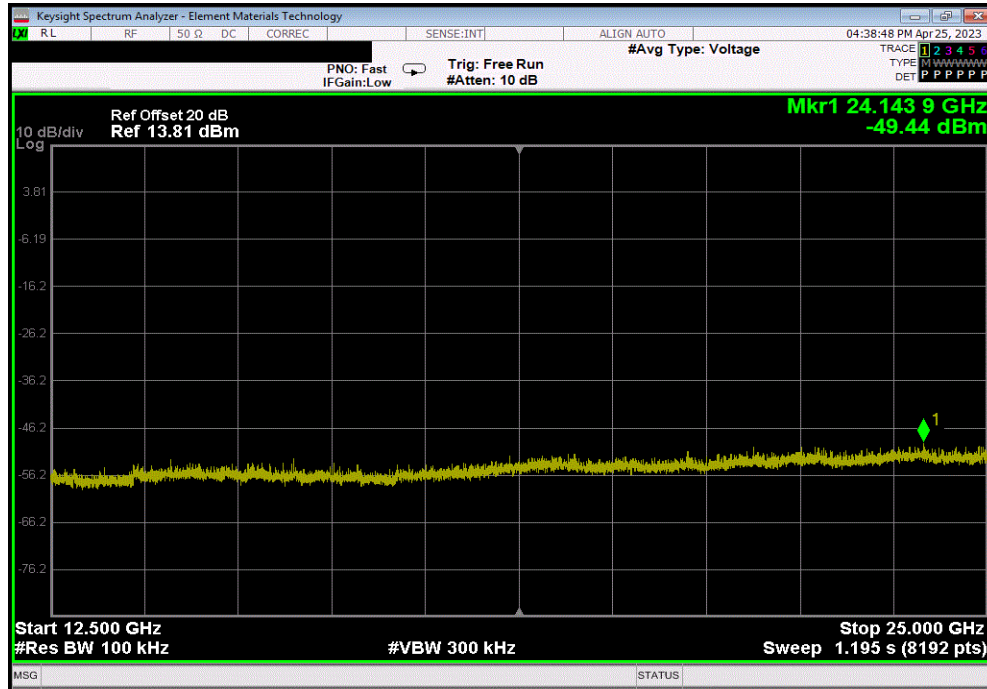


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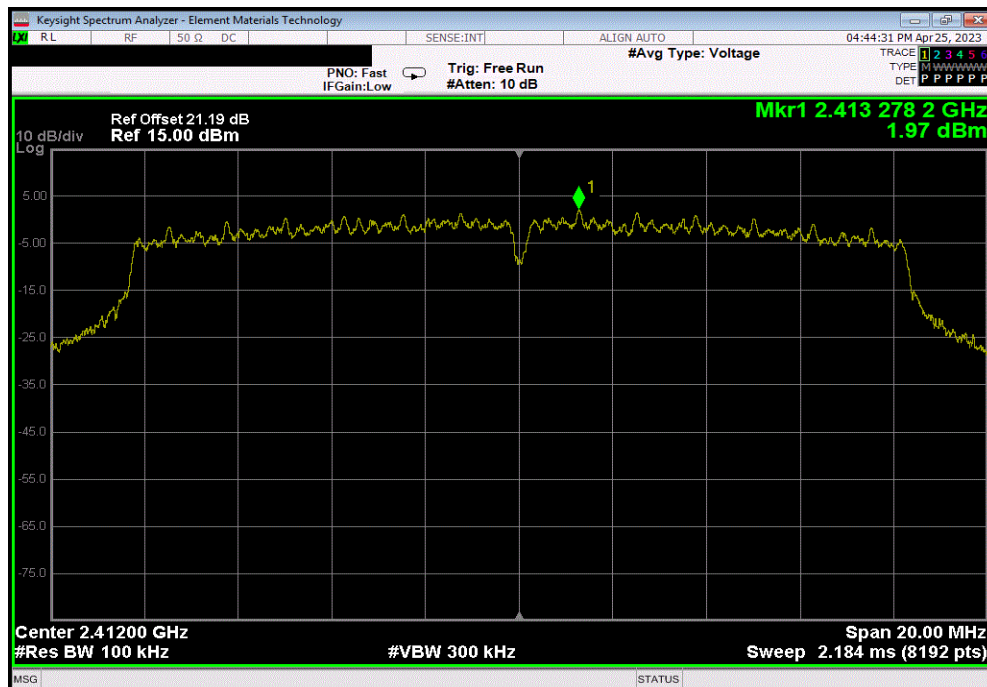


TbTtX 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24143.88	-50.7	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2413.28	N/A	N/A	N/A	

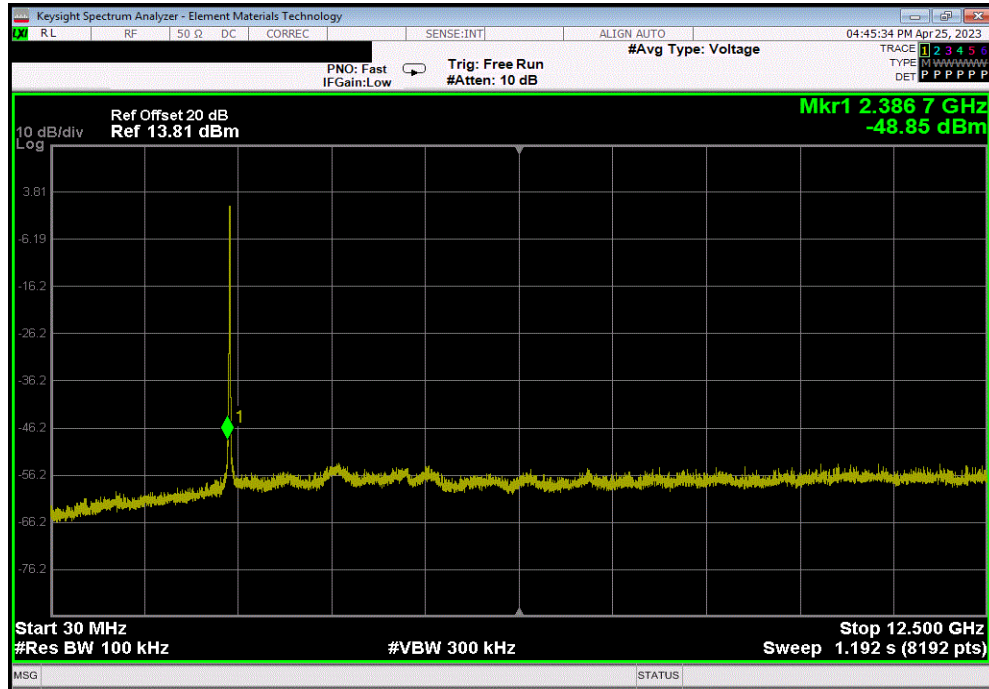


SPURIOUS CONDUCTED EMISSIONS

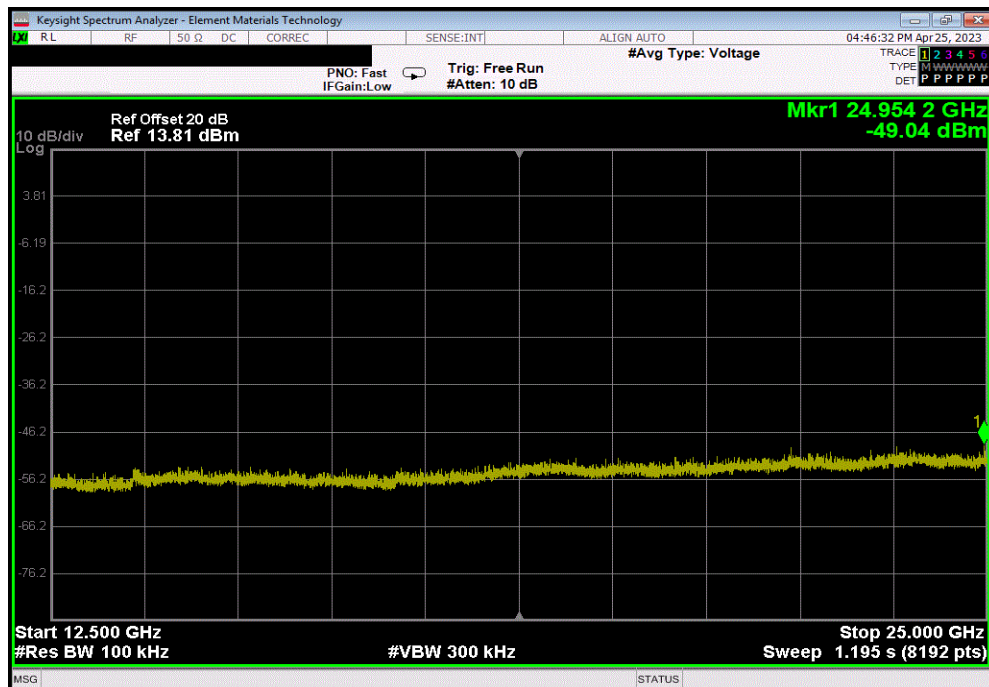


TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	2386.68	-50.82	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24954.22	-51.01	-30	Pass	

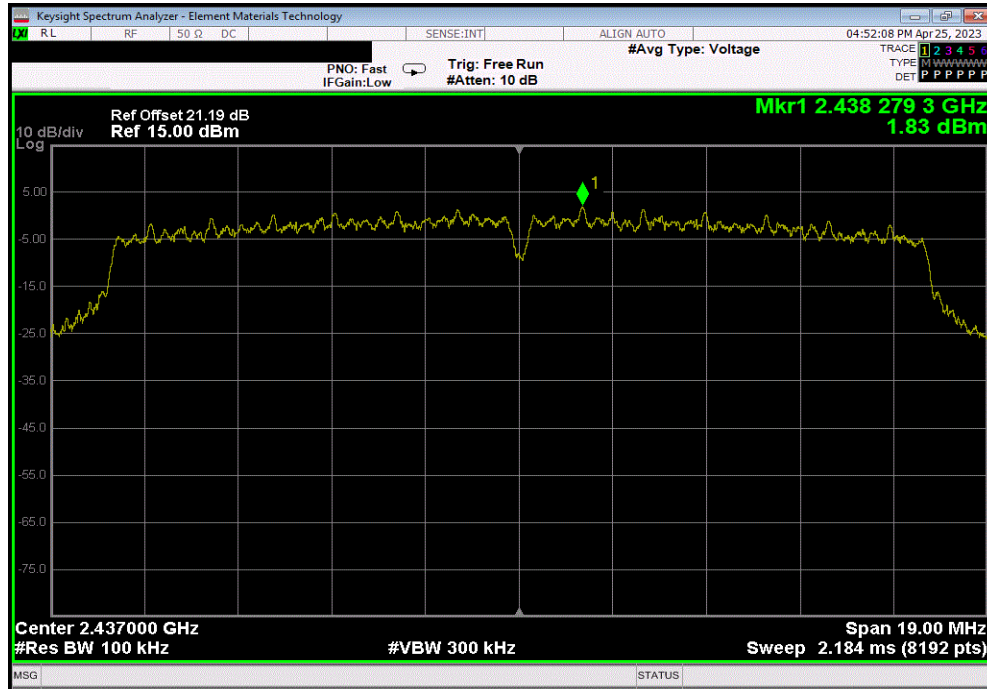


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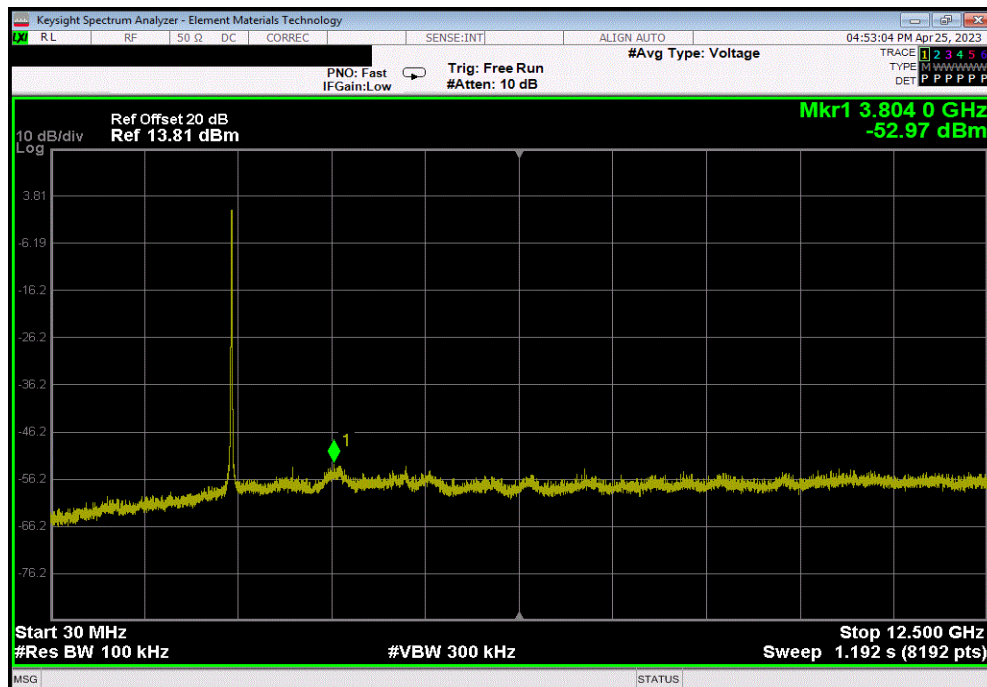


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2438.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3804.04	-54.8	-30	Pass		

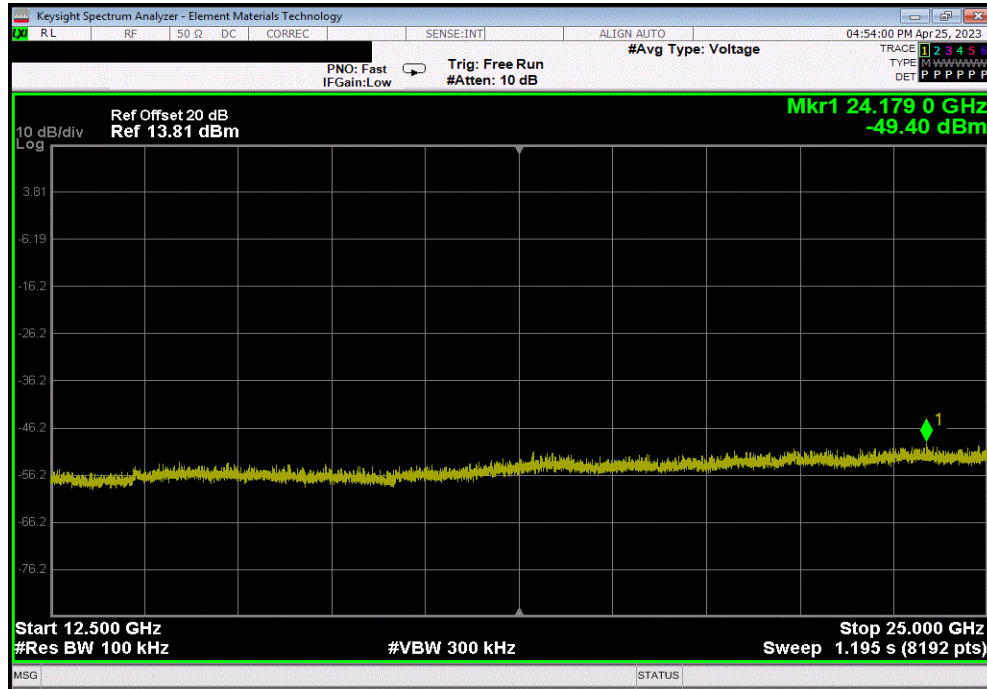


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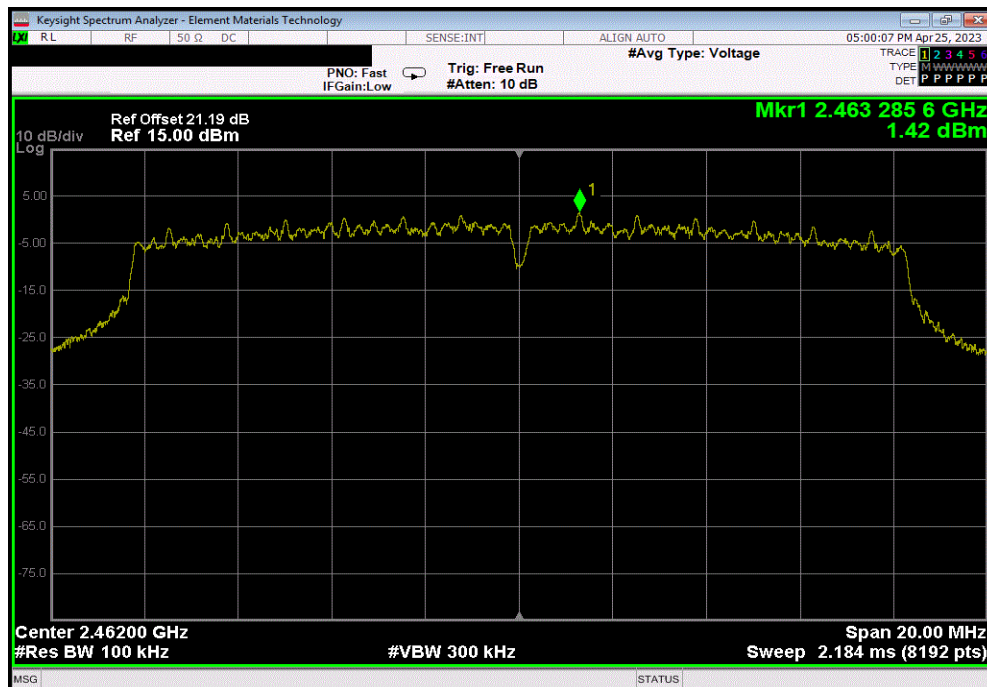


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24178.98	-51.24	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2463.29	N/A	N/A	N/A	

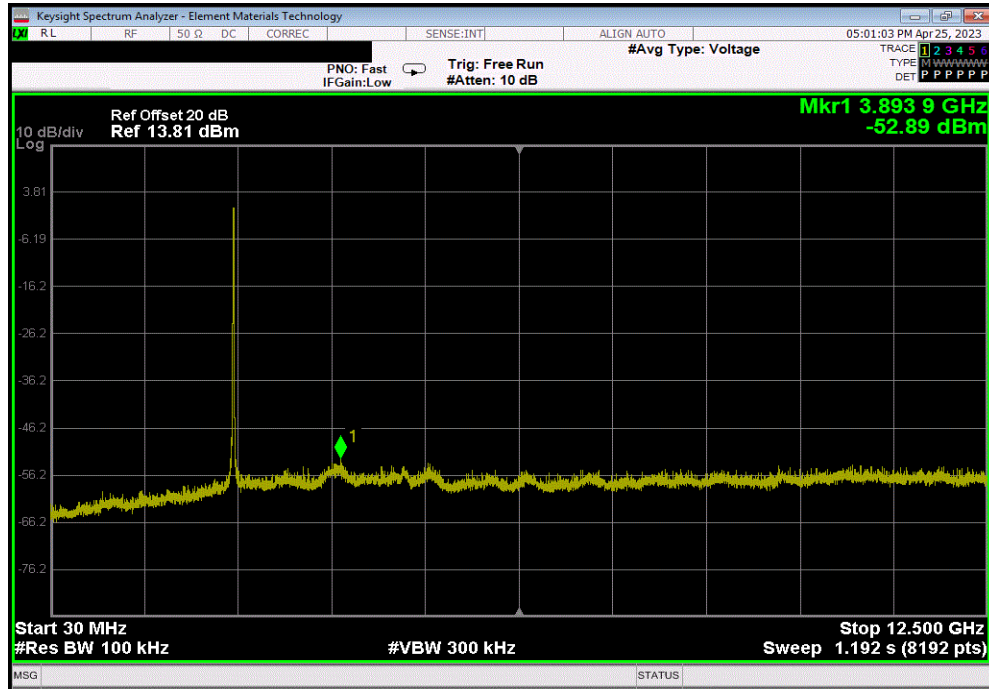


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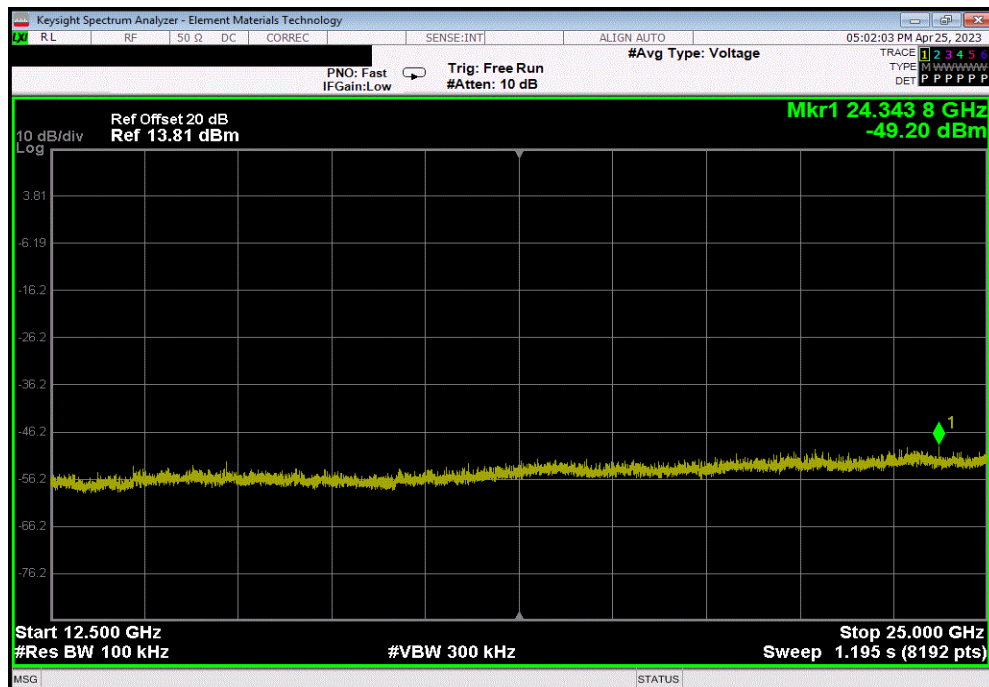


TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3893.86	-54.32	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24343.79	-50.62	-30	Pass	

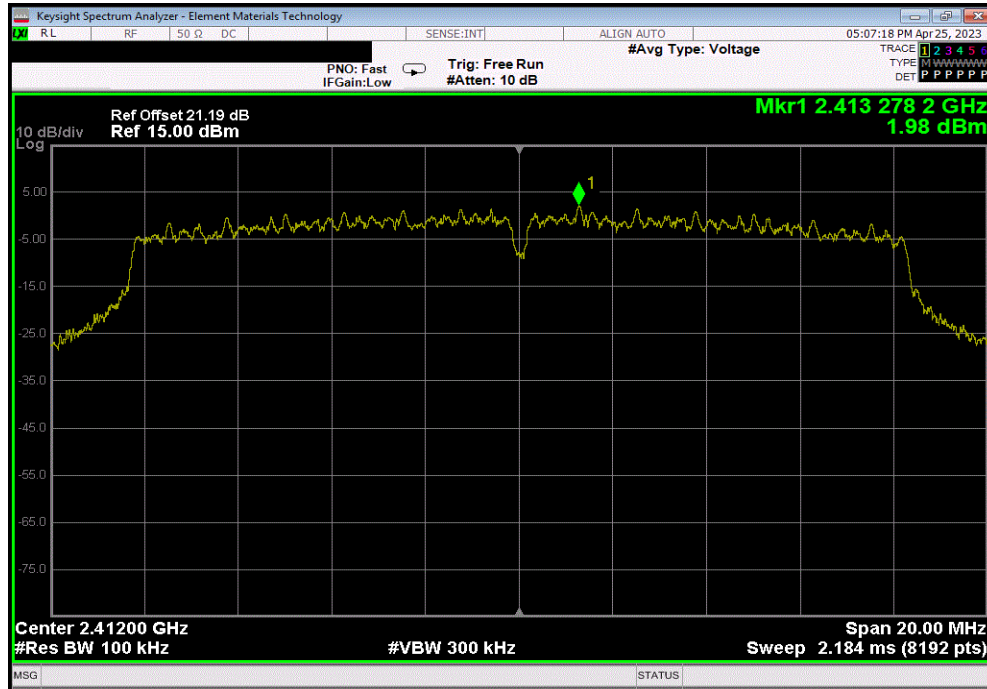


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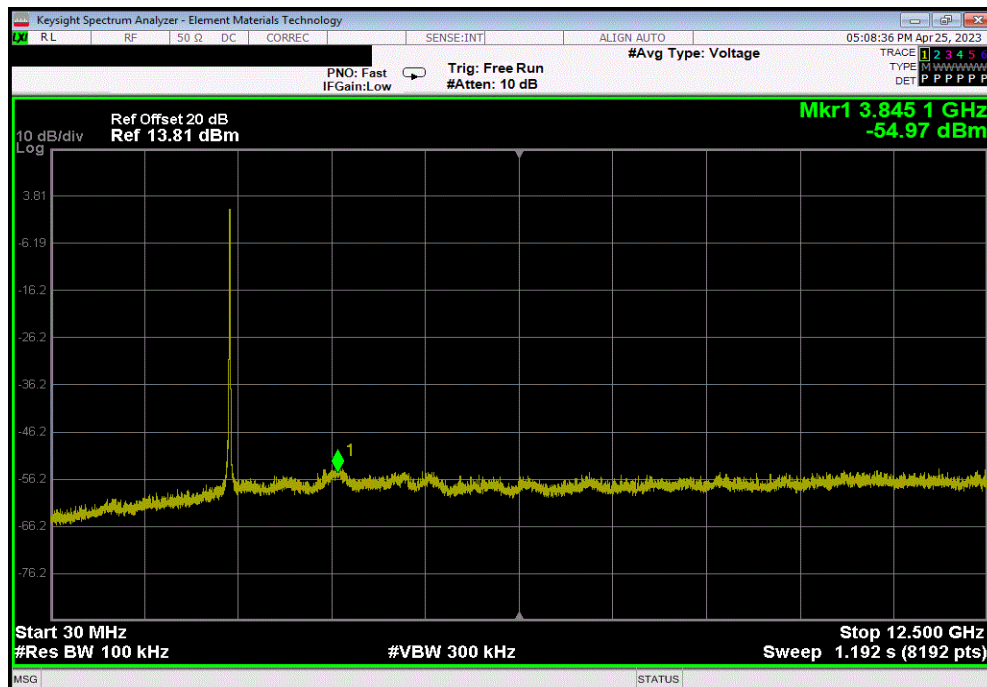


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2413.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3845.14	-56.95	-30	Pass		

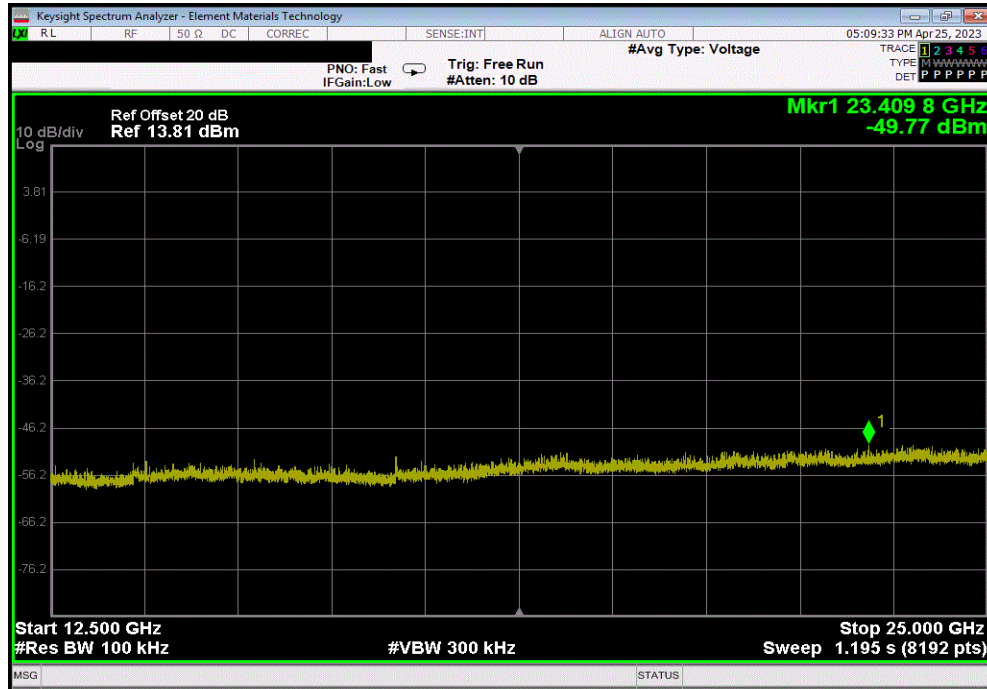


SPURIOUS CONDUCTED EMISSIONS

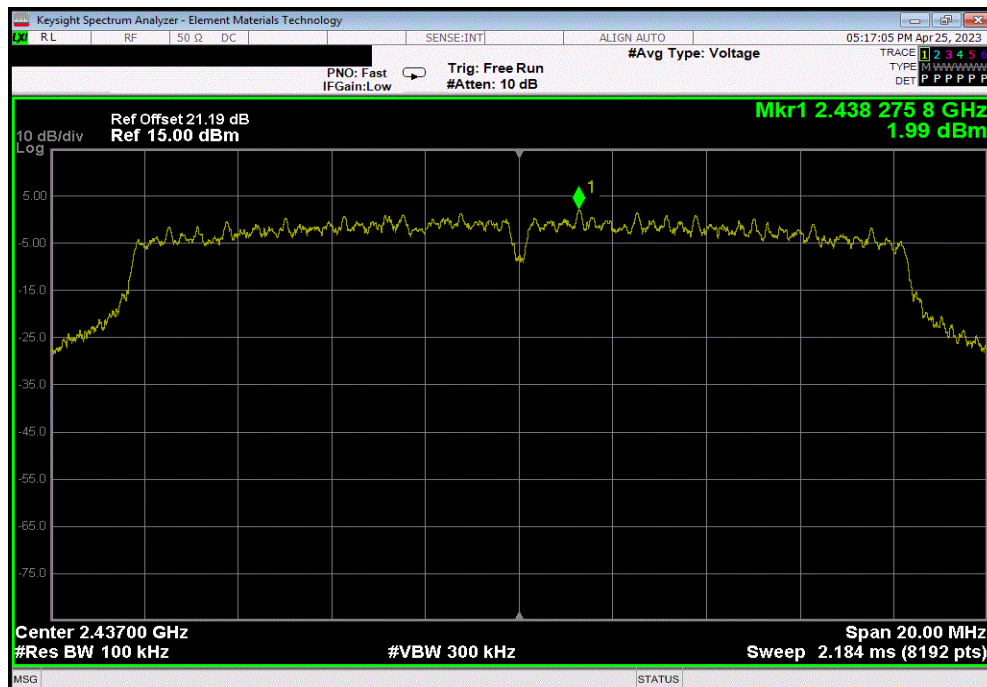


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23409.84	-51.75	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2438.28	N/A	N/A	N/A	

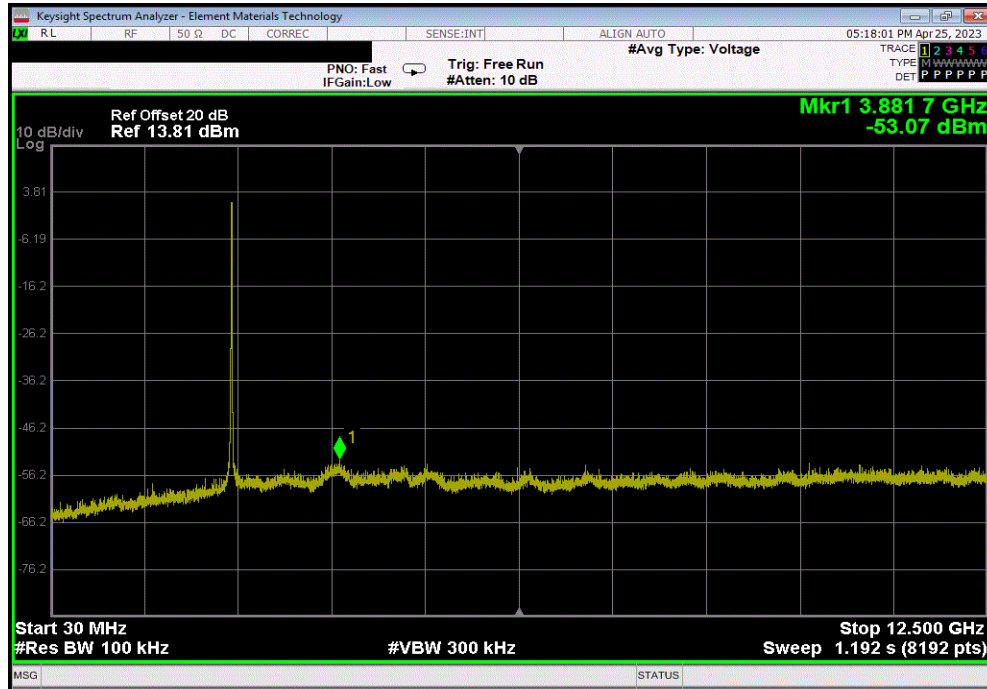


SPURIOUS CONDUCTED EMISSIONS

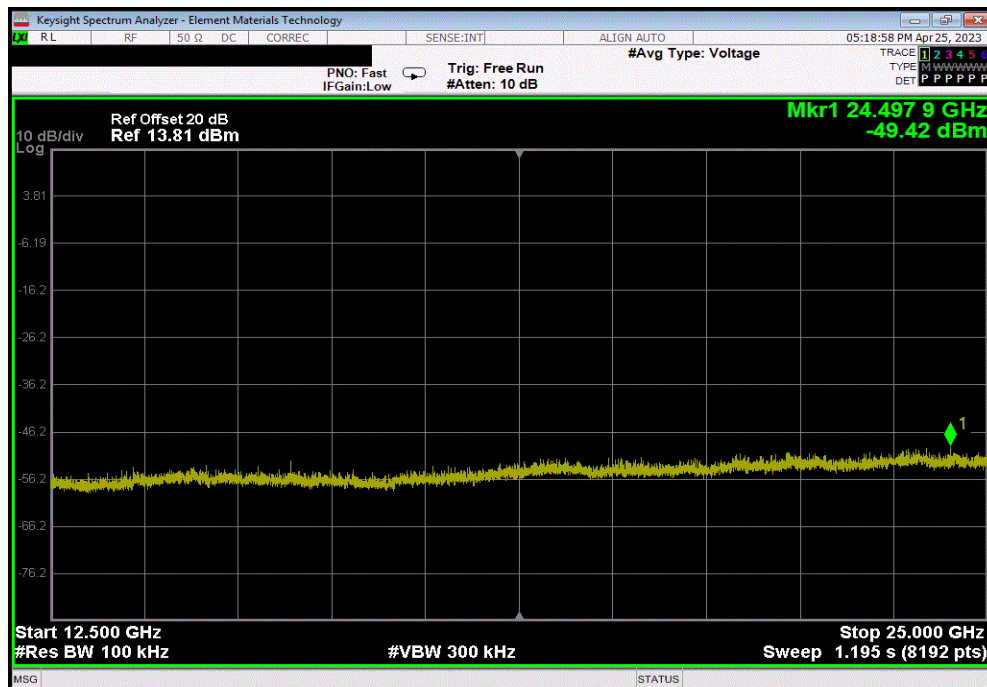


TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3881.68	-55.06	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24497.92	-51.41	-30	Pass	

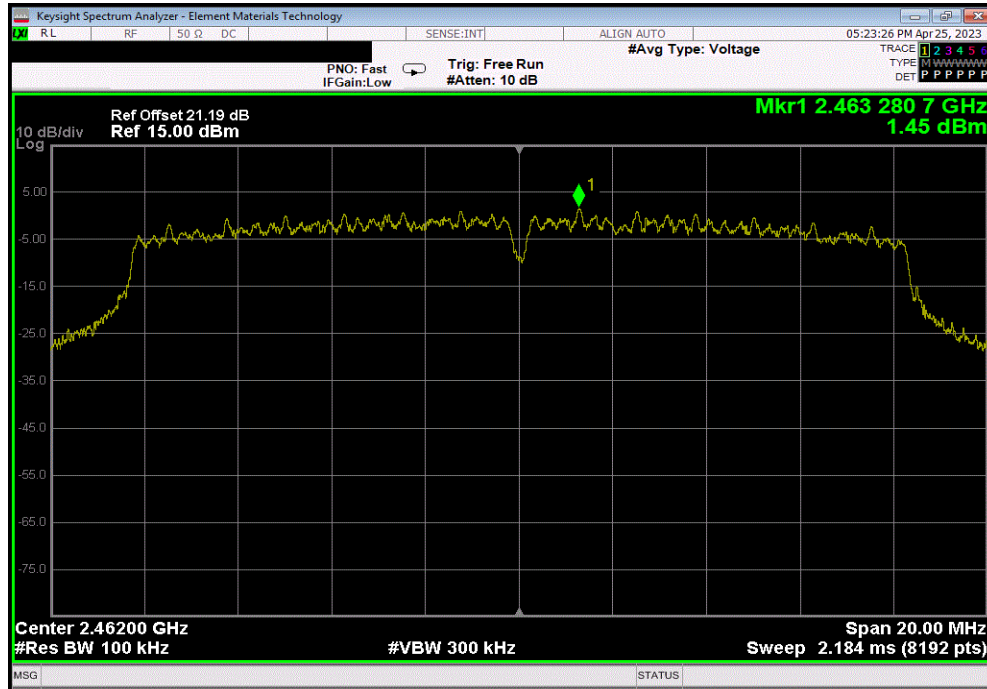


SPURIOUS CONDUCTED EMISSIONS

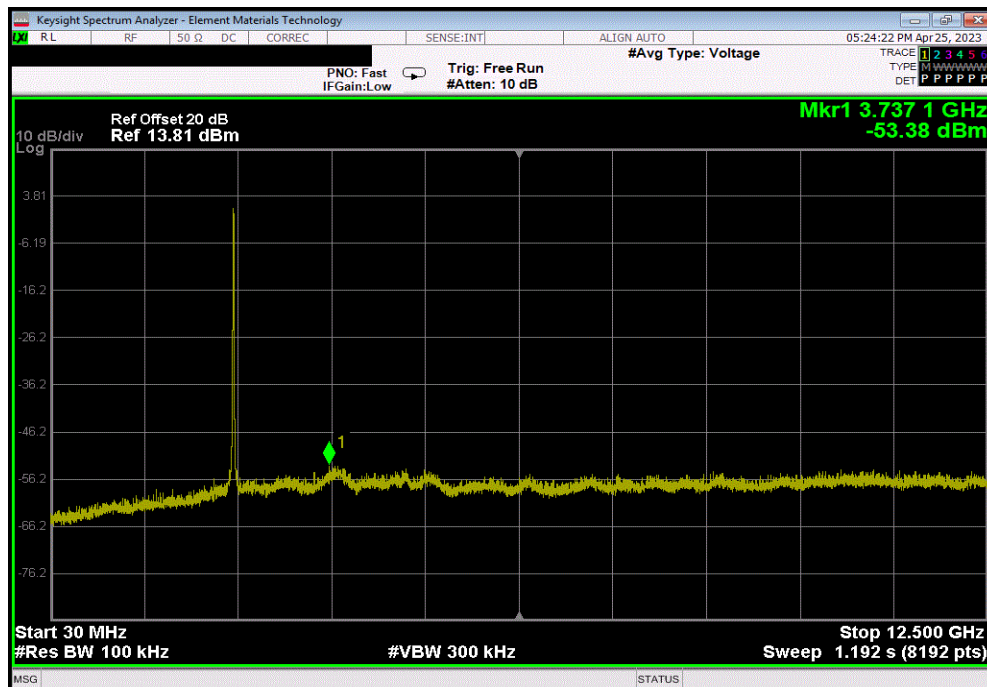


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2463.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3737.05	-54.83	-30	Pass		

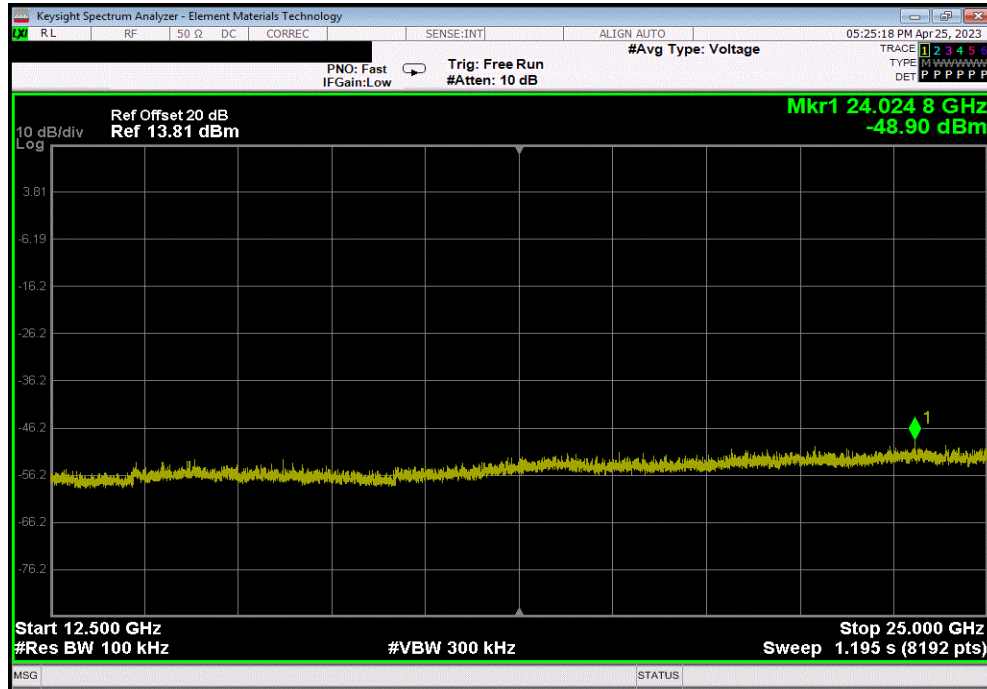


SPURIOUS CONDUCTED EMISSIONS

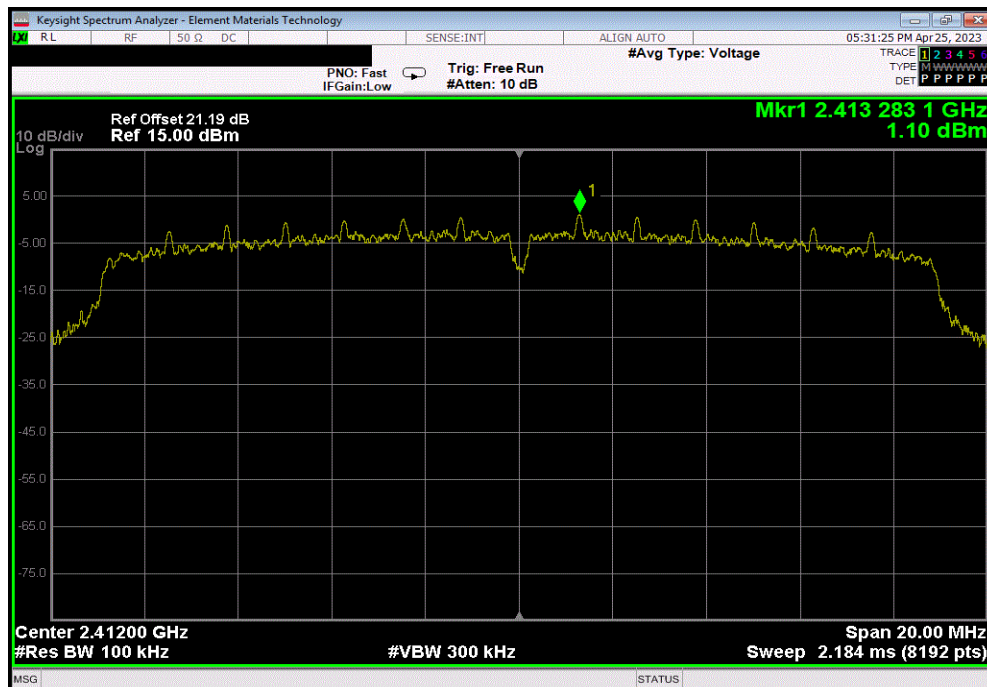


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24024.84	-50.35	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2413.28	N/A	N/A	N/A	

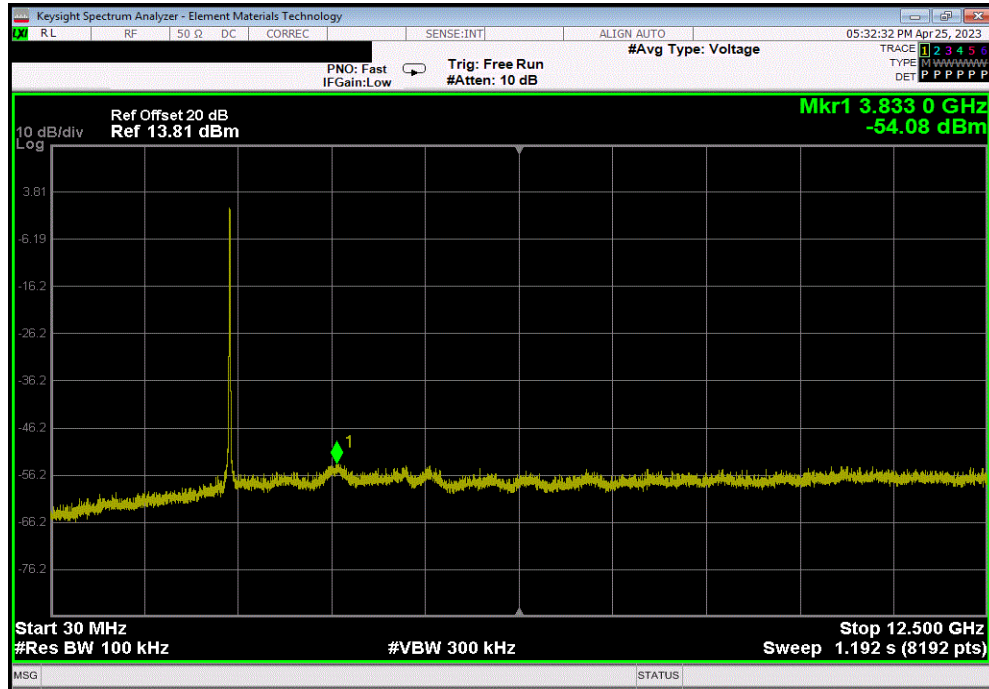


SPURIOUS CONDUCTED EMISSIONS

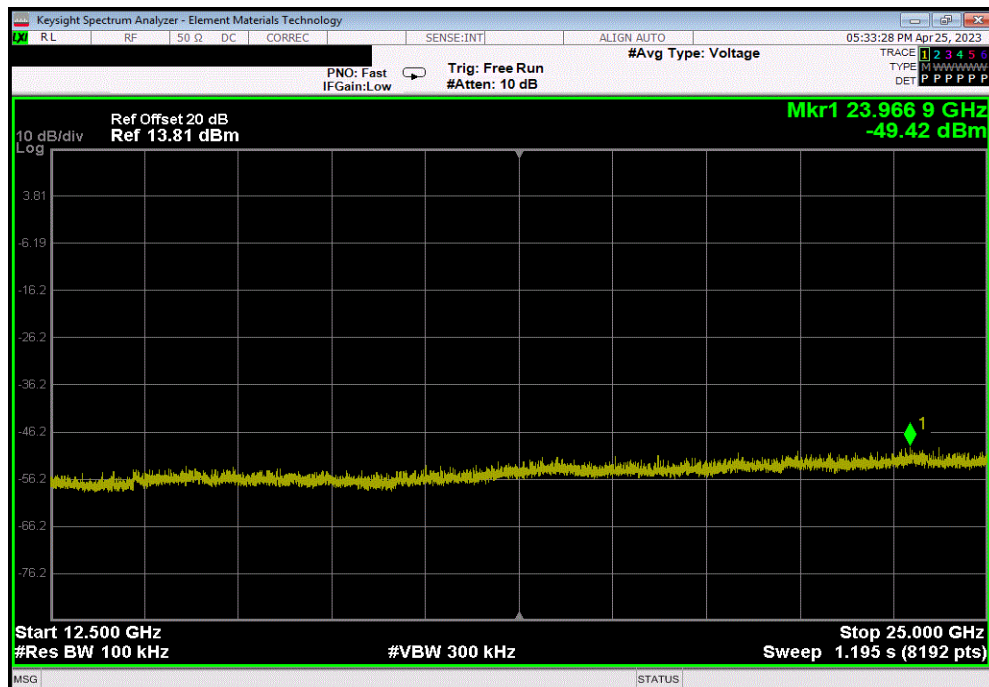


TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3832.96	-55.18	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23966.85	-50.52	-30	Pass	

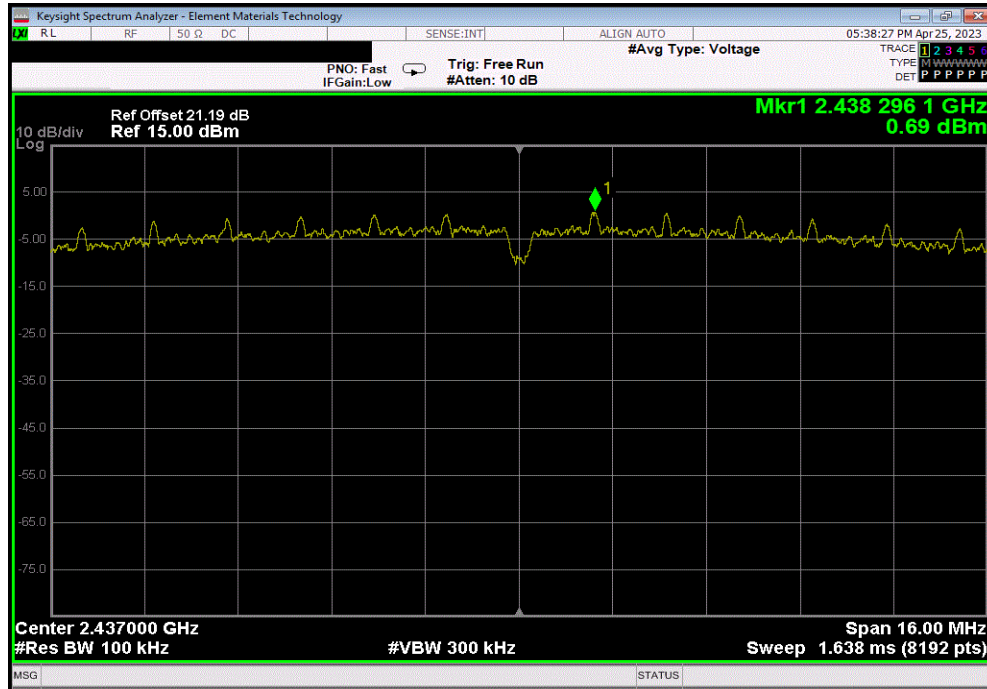


SPURIOUS CONDUCTED EMISSIONS

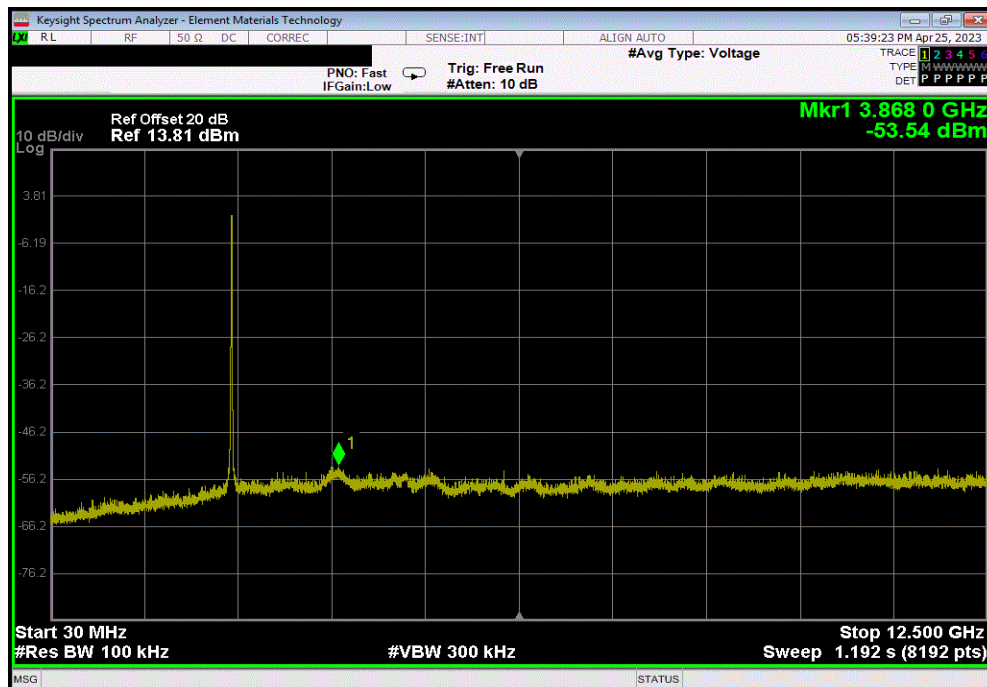


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2438.3	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3867.98	-54.23	-30	Pass		

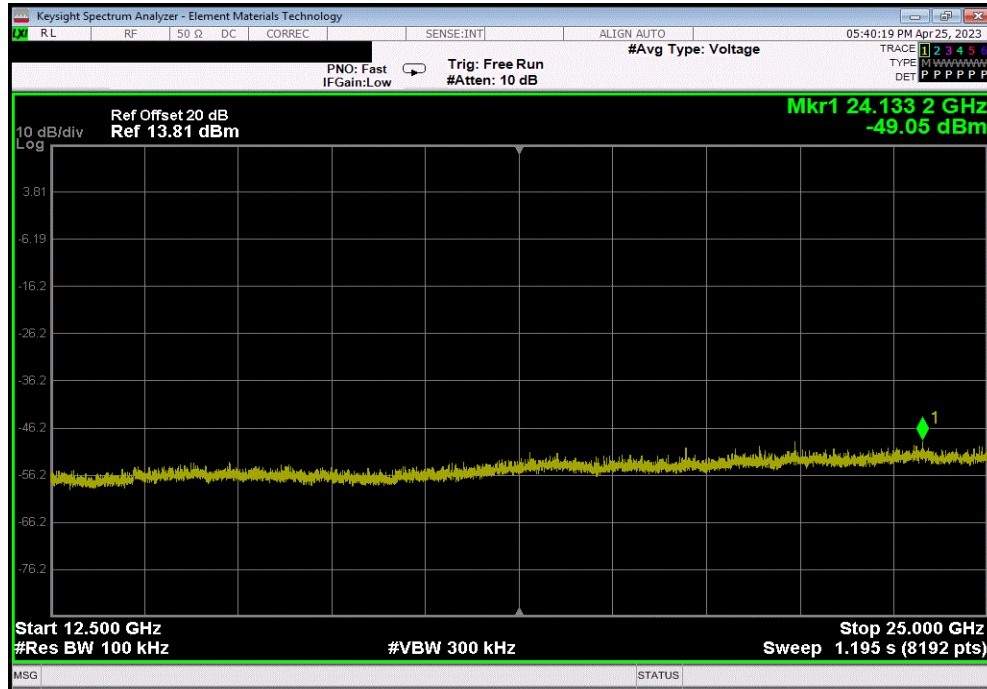


SPURIOUS CONDUCTED EMISSIONS

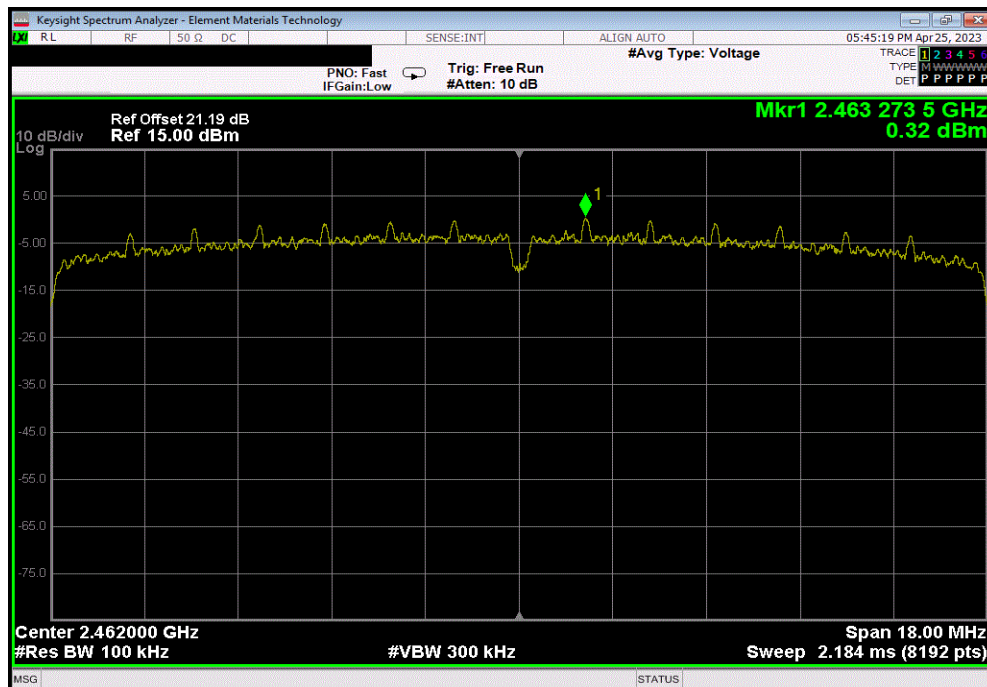


TbTtX 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24133.2	-49.74	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2463.27	N/A	N/A	N/A	

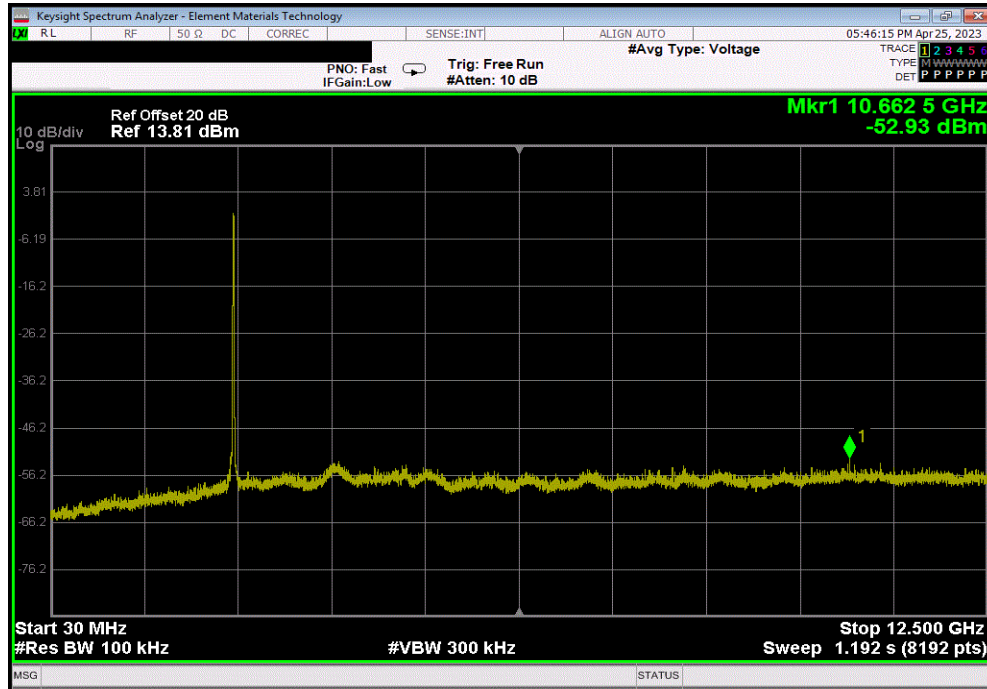


SPURIOUS CONDUCTED EMISSIONS

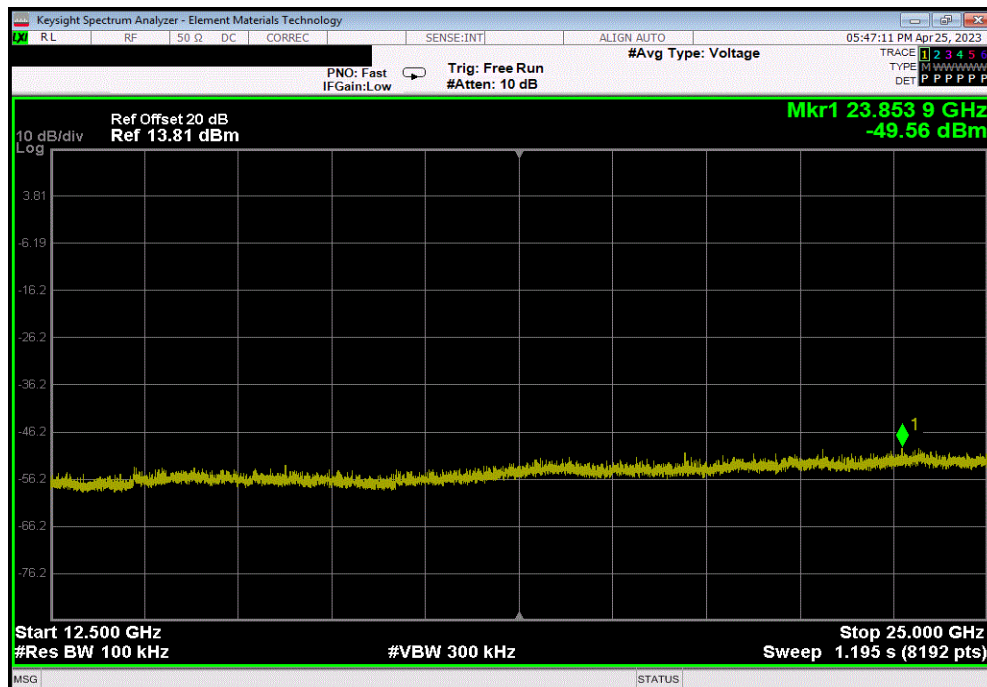


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	10662.46	-53.25	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23853.93	-49.88	-30	Pass	

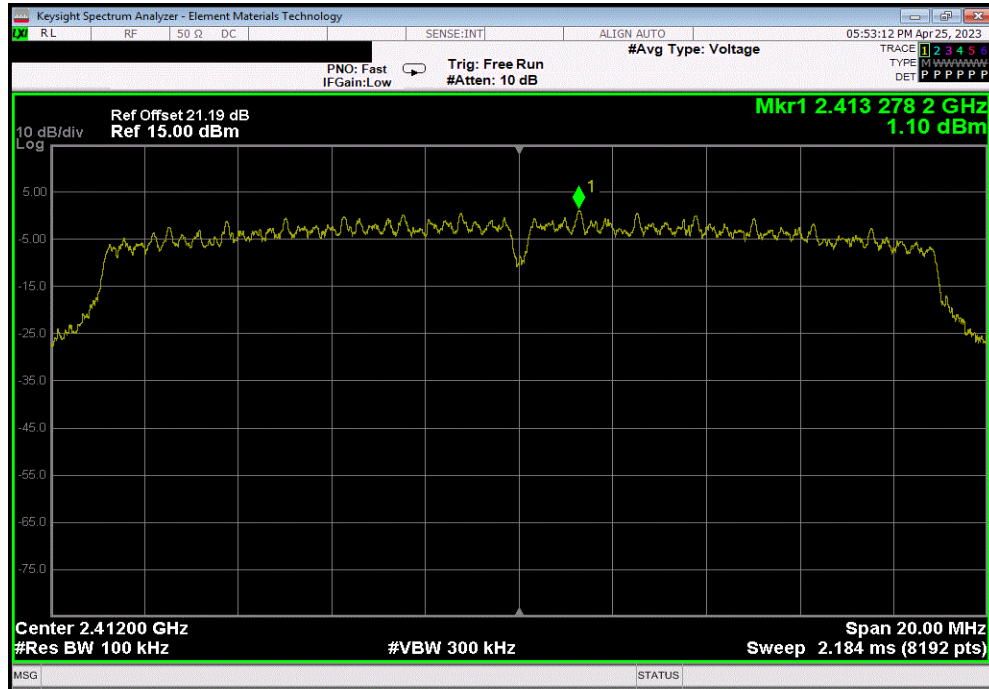


SPURIOUS CONDUCTED EMISSIONS

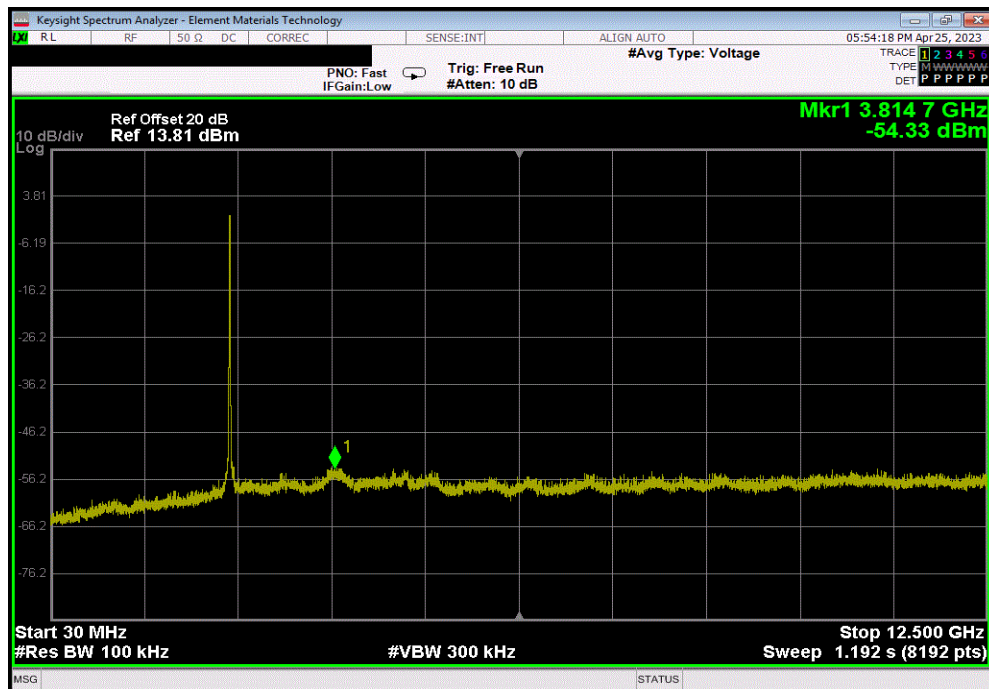


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2413.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3814.69	-55.43	-30	Pass		

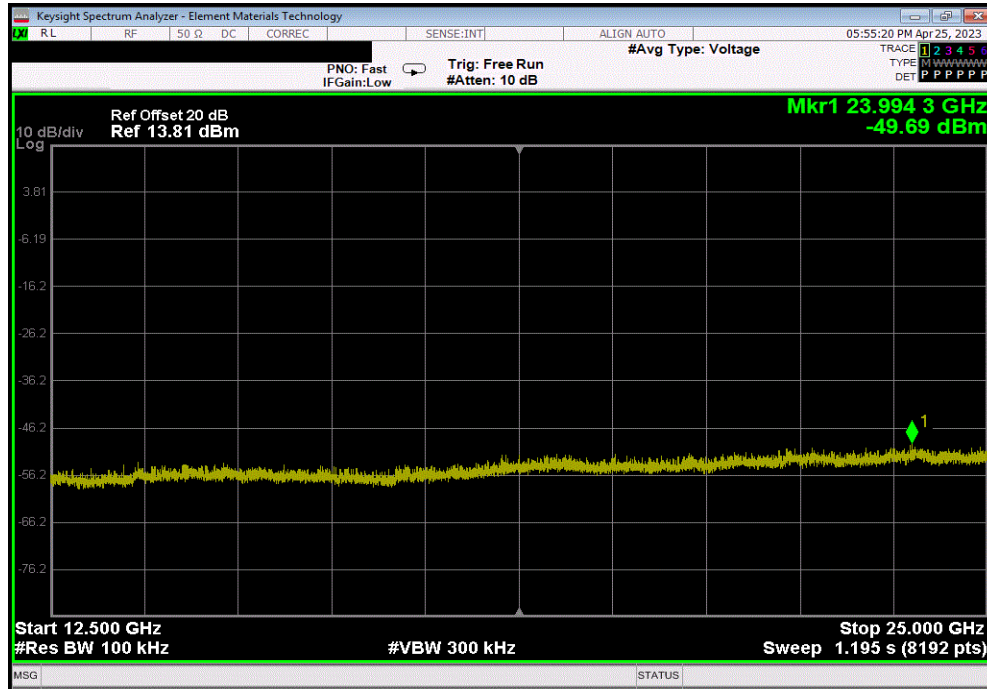


SPURIOUS CONDUCTED EMISSIONS

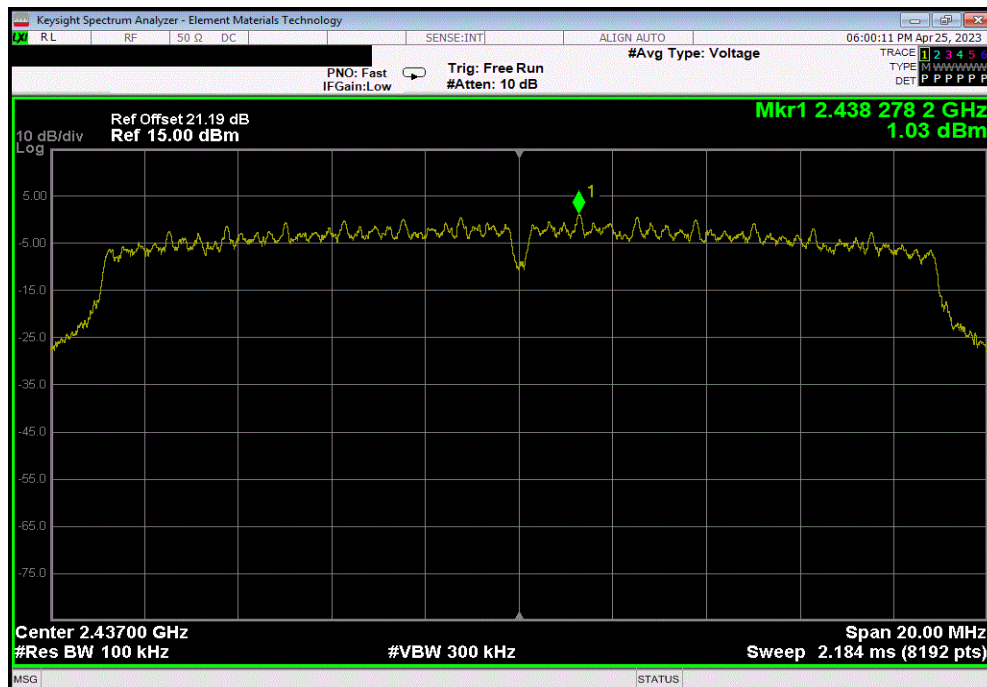


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23994.32	-50.79	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2438.28	N/A	N/A	N/A	

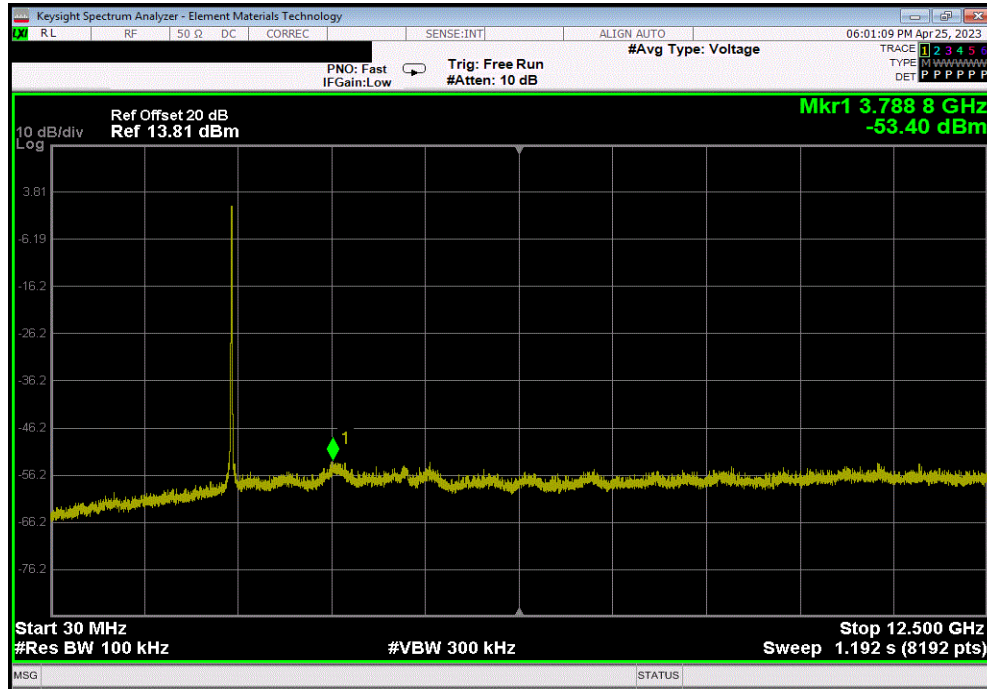


SPURIOUS CONDUCTED EMISSIONS

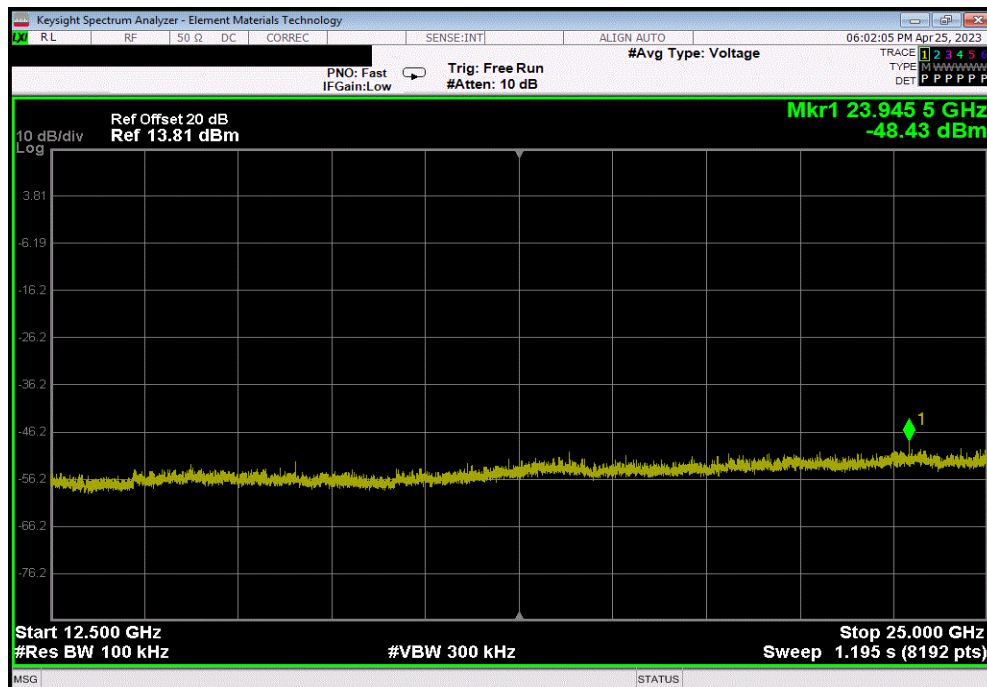


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3788.81	-54.43	-30	Pass	



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23945.49	-49.46	-30	Pass	

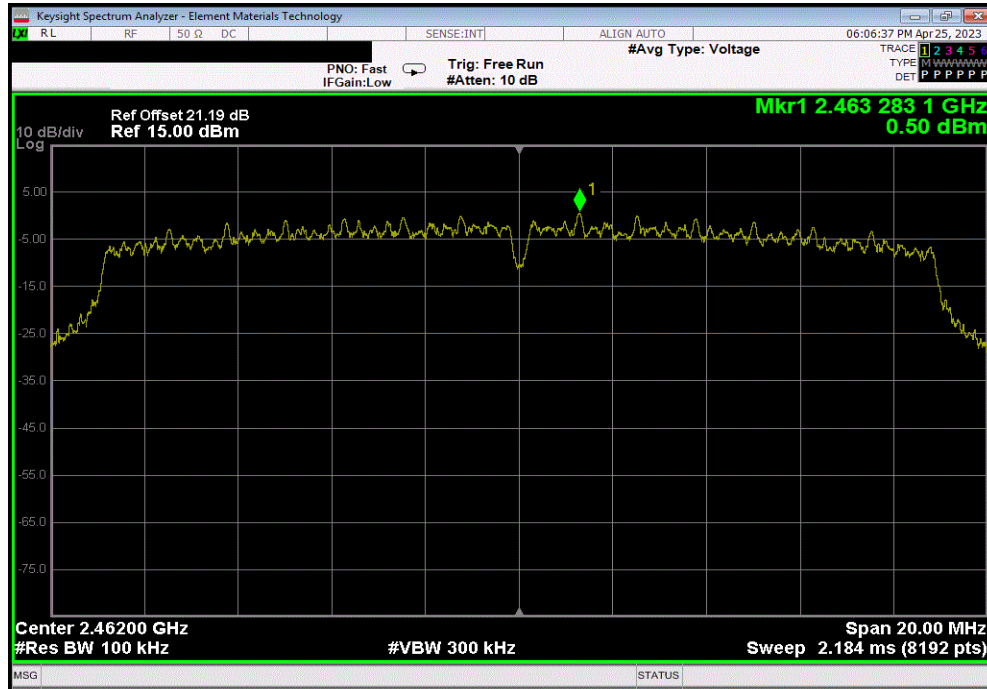


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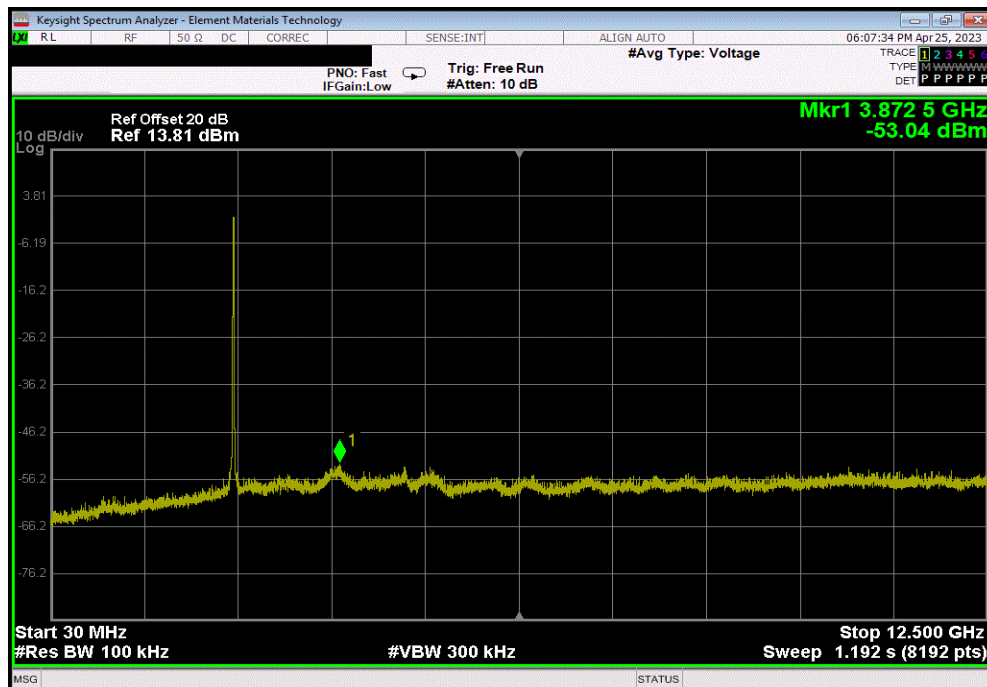


TbTtx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2463.28	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3872.54	-53.54	-30	Pass		

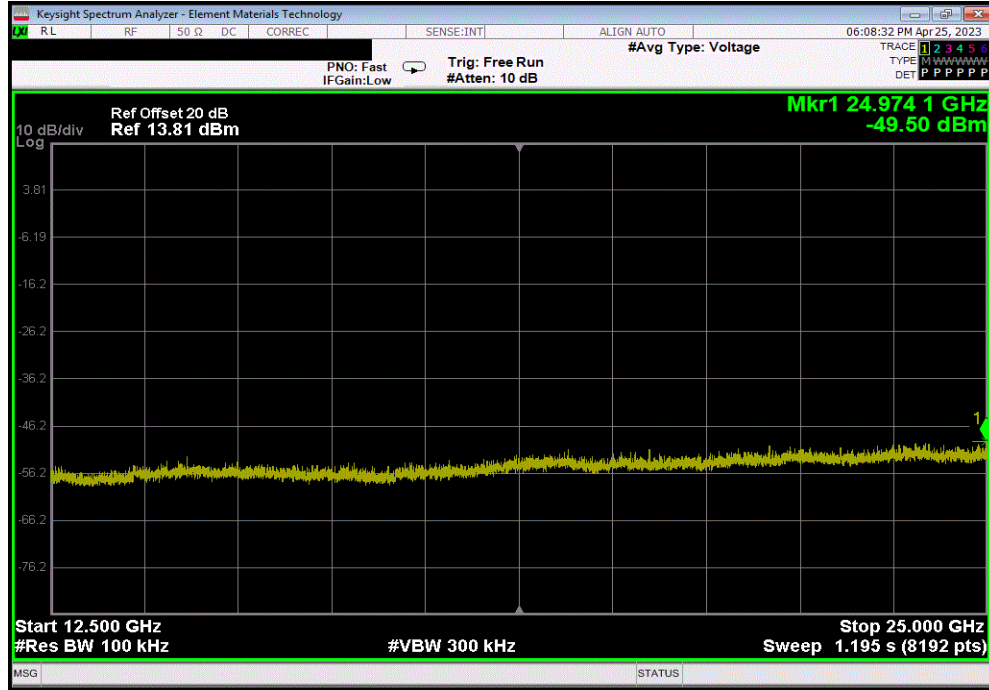


SPURIOUS CONDUCTED EMISSIONS



TbTx 2022.06.03.0 XMt 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24974.06	-50	-30	Pass	



SPURIOUS RADIATED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level was detected. This required the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search was utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT. Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance was 3 meters or 10 meters (from antenna to boundary of EUT). At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna was increased so that the lowest point of the bottom of the antenna cleared the ground surface by at least 25 cm.

The EUT arrangement is configured as equivalent to that occurring in normal use. Tabletop equipment is placed on a 0.8 meter high non-conductive table & for Floor-standing equipment; it is placed on, but insulated from a ground reference plane by the use of its own rollers or stand-off supports. If measurements above 1 GHz were required, the test setup was modified to meet the regulatory requirements for higher frequency measurements. If required, RF absorber was placed on the floor between the measurement antenna and EUT. If required, per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables.

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.

The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2022-10-21	2024-10-21
Attenuator	Weinschel Corp	4H-20	AWB	2023-02-13	2024-02-13
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2022-09-02	2024-09-02
Filter - High Pass	Micro-Tronics	HPM50111	HGC	2022-02-23	2023-02-23
Filter - High Pass	Micro-Tronics	HPM50108	HGD	2022-09-09	2023-09-09
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2022-07-22	2023-07-22
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2022-09-14	2023-09-14
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2022-09-09	2023-09-09
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2022-09-09	2023-09-09
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2022-04-19	2023-04-19
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2022-04-19	2023-04-19
Cable	Northwest EMC	18-40GHz	TXE	2022-09-09	2023-09-09
Cable	Northwest EMC	8-18GHz	TXD	2022-04-12	2023-04-12
Cable	Northwest EMC	1-8.2 GHz	TXC	2022-04-19	2023-04-19
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2022-06-10	2023-06-10
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	2022-01-19	2023-01-19

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.1 dB	-5.1 dB

SPURIOUS RADIATED EMISSIONS

FREQUENCY RANGE INVESTIGATED

30 MHz TO 40000 MHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

WTVD0086-1

MODES INVESTIGATED

Transmitting at Low Channel 1 (2412 MHz), Mid Channel 6 (2437 MHz) and High Channel 11 (2462 Mhz).

SPURIOUS RADIATED EMISSIONS

EUT:	V700	Work Order:	WTVD0086
Serial Number:	BWL7-000539	Date:	2022-12-21
Customer:	Motorola Solutions Inc.	Temperature:	22.1°C
Attendees:	Navaid Karimi	Relative Humidity:	28.4%
Customer Project:	None	Bar. Pressure (PMSL):	1028 mb
Tested By:	Marty Martin	Job Site:	TX02
Power:	Battery	Configuration:	WTVD0086-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2022	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013

TEST PARAMETERS

Run #:	12	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

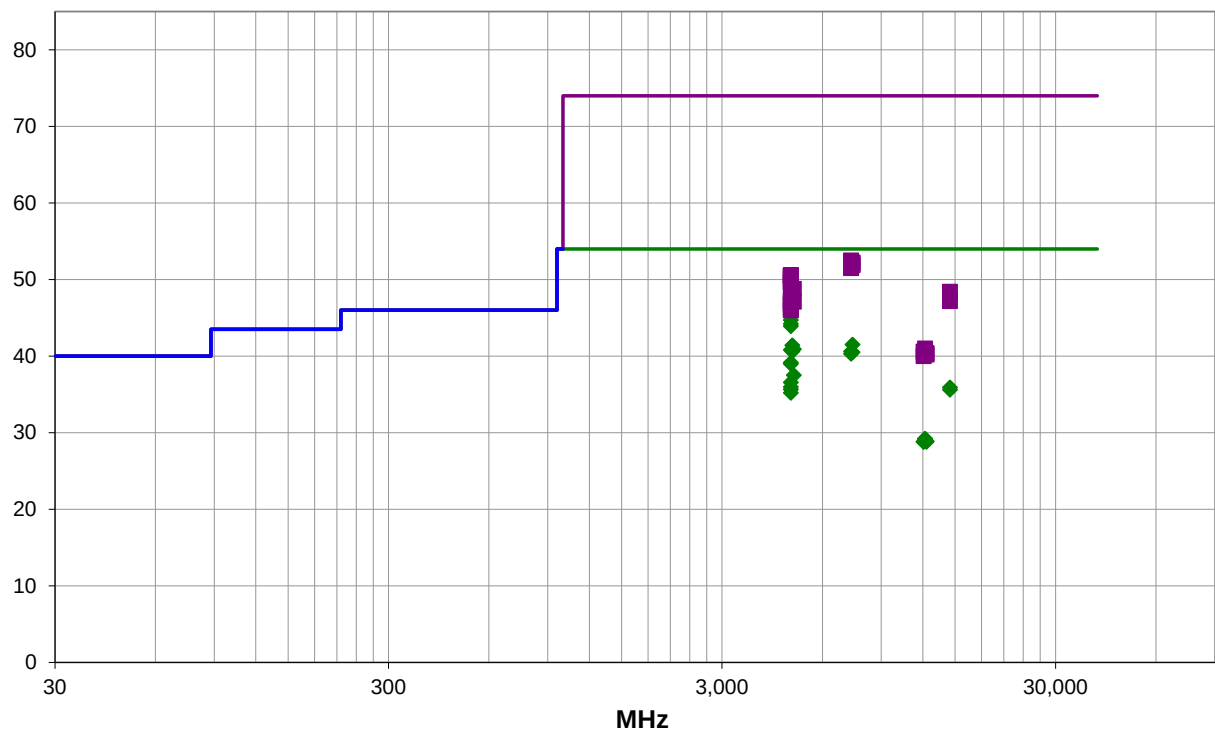
EUT fully operational and transmitting, see table for details.

EUT OPERATING MODES

Transmitting at Low Channel 1 (2412 MHz), Mid Channel 6 (2437 MHz) and High Channel 11 (2462 Mhz).

DEVIATIONS FROM TEST STANDARD

None



Run #: 12

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #12

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4823.923	40.8	5.1	2.1	123.0	0.0	0.0	Horz	AV	0.0	45.9	54.0	-8.1	Low Ch, EUT Y, 1 MBPS
4823.947	40.4	5.1	2.0	306.0	0.0	0.0	Horz	AV	0.0	45.5	54.0	-8.5	Low Ch, EUT Z, 1 MBPS
4824.087	39.6	5.1	2.2	270.0	0.0	0.0	Vert	AV	0.0	44.7	54.0	-9.3	Low Ch, EUT Y, 1 MBPS
4823.993	39.1	5.1	1.5	57.9	0.0	0.0	Horz	AV	0.0	44.2	54.0	-9.8	Low Ch, EUT X, 1 MBPS
4823.895	38.8	5.1	1.5	201.9	0.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	Low Ch, EUT X, 1 MBPS
7385.932	30.1	11.4	1.5	360.0	0.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	High Ch, EUT Y, 1 MBPS
4873.950	36.4	5.0	2.4	267.0	0.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	Mid Ch, EUT Y, 1 MBPS
4923.945	36.0	4.9	2.0	264.0	0.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	High Ch, EUT Y, 1 MBPS
4823.978	35.7	5.1	3.9	110.0	0.0	0.0	Vert	AV	0.0	40.8	54.0	-13.2	Low Ch, EUT Z, 1 MBPS
4873.900	35.6	5.0	1.9	98.0	0.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	Mid Ch, EUT Y, 1 MBPS
7310.968	29.4	11.2	1.5	130.9	0.0	0.0	Vert	AV	0.0	40.6	54.0	-13.4	Mid Ch, EUT Y, 1 MBPS
7386.033	29.1	11.4	1.5	256.9	0.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	High Ch, EUT Y, 1 MBPS
7311.082	29.1	11.2	1.5	76.9	0.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	Mid Ch, EUT Y, 1 MBPS
4824.112	29.6	5.1	3.6	303.9	4.5	0.0	Horz	AV	0.0	39.2	54.0	-14.8	Low Ch, EUT Y, MCS7
4824.007	33.7	5.1	3.6	303.9	0.2	0.0	Horz	AV	0.0	39.0	54.0	-15.0	Low Ch, EUT Y, 11 MBPS
4923.997	32.6	4.9	1.5	152.0	0.0	0.0	Horz	AV	0.0	37.5	54.0	-16.5	High Ch, EUT Y, 1 MBPS
4824.008	29.7	5.1	3.6	303.9	1.8	0.0	Horz	AV	0.0	36.6	54.0	-17.4	Low Ch, EUT Y, MCS0
4824.245	30.0	5.1	3.6	303.9	0.9	0.0	Horz	AV	0.0	36.0	54.0	-18.0	Low Ch, EUT Y, 54 MBPS
14471.810	27.7	8.2	1.5	16.9	0.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	Low Ch, EUT Y, 1 MBPS
4823.690	29.9	5.1	3.6	303.9	0.7	0.0	Horz	AV	0.0	35.7	54.0	-18.3	Low Ch, EUT Y, 36 MBPS
14471.910	27.4	8.2	1.5	37.0	0.0	0.0	Horz	AV	0.0	35.6	54.0	-18.4	Low Ch, EUT Y, 1 MBPS
4824.293	30.1	5.1	3.6	303.9	0.0	0.0	Horz	AV	0.0	35.2	54.0	-18.8	Low Ch, EUT Y, 6 MBPS
7311.193	41.3	11.2	1.5	130.9	0.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	Mid Ch, EUT Y, 1 MBPS
7385.932	40.8	11.4	1.5	256.9	0.0	0.0	Horz	PK	0.0	52.2	74.0	-21.8	High Ch, EUT Y, 1 MBPS
7386.018	40.5	11.4	1.5	360.0	0.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	High Ch, EUT Y, 1 MBPS
7310.510	40.3	11.2	1.5	76.9	0.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Mid Ch, EUT Y, 1 MBPS
4823.905	45.5	5.1	2.0	306.0	0.0	0.0	Horz	PK	0.0	50.6	74.0	-23.4	Low Ch, EUT Z, 1 MBPS
4823.992	45.4	5.1	2.1	123.0	0.0	0.0	Horz	PK	0.0	50.5	74.0	-23.5	Low Ch, EUT Y, 1 MBPS
4823.790	45.3	5.1	2.2	270.0	0.0	0.0	Vert	PK	0.0	50.4	74.0	-23.6	Low Ch, EUT Y, 1 MBPS
4823.998	45.0	5.1	1.5	57.9	0.0	0.0	Horz	PK	0.0	50.1	74.0	-23.9	Low Ch, EUT X, 1 MBPS
4823.923	44.6	5.1	1.5	201.9	0.0	0.0	Vert	PK	0.0	49.7	74.0	-24.3	Low Ch, EUT X, 1 MBPS
4824.053	44.5	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	49.6	74.0	-24.4	Low Ch, EUT Y, 11 MBPS
12184.590	32.5	-3.3	1.5	261.0	0.0	0.0	Horz	AV	0.0	29.2	54.0	-24.8	Mid Ch, EUT Y, 1 MBPS
12184.980	32.5	-3.3	1.5	112.9	0.0	0.0	Vert	AV	0.0	29.2	54.0	-24.8	Mid Ch, EUT Y, 1 MBPS
12310.140	32.6	-3.7	1.0	4.9	0.0	0.0	Horz	AV	0.0	28.9	54.0	-25.1	High Ch, EUT Y, 1 MBPS
12309.600	32.5	-3.7	1.5	333.0	0.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	High Ch, EUT Y, 1 MBPS
12060.370	33.0	-4.2	2.5	326.0	0.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	Low Ch, EUT Y, 1 MBPS
12060.460	33.0	-4.2	1.5	279.9	0.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	Low Ch, EUT Y, 1 MBPS
4923.650	43.9	4.9	2.0	264.0	0.0	0.0	Vert	PK	0.0	48.8	74.0	-25.2	High Ch, EUT Y, 1 MBPS
4873.845	43.5	5.0	2.4	267.0	0.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	Mid Ch, EUT Y, 1 MBPS

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
14472.280	40.2	8.2	1.5	16.9	0.0	0.0	Vert	PK	0.0	48.4	74.0	-25.6	Low Ch, EUT Y, 1 MBPS
4874.267	43.3	5.0	1.9	98.0	0.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	Mid Ch, EUT Y, 1 MBPS
4824.032	43.1	5.1	3.9	110.0	0.0	0.0	Vert	PK	0.0	48.2	74.0	-25.8	Low Ch, EUT Z, 1 MBPS
4824.000	42.2	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	47.3	74.0	-26.7	Low Ch, EUT Y, MCS0
14472.180	39.0	8.2	1.5	37.0	0.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	Low Ch, EUT Y, 1 MBPS
4923.783	42.2	4.9	1.5	152.0	0.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	High Ch, EUT Y, 1 MBPS
4824.103	41.8	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	Low Ch, EUT Y, 54 MBPS
4823.808	41.7	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	Low Ch, EUT Y, 6 MBPS
4823.635	41.1	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	Low Ch, EUT Y, 36 MBPS
4824.437	40.9	5.1	3.6	303.9	0.0	0.0	Horz	PK	0.0	46.0	74.0	-28.0	Low Ch, EUT Y, MCS7
12185.310	44.3	-3.3	1.5	261.0	0.0	0.0	Horz	PK	0.0	41.0	74.0	-33.0	Mid Ch, EUT Y, 1 MBPS
12185.260	43.9	-3.3	1.5	112.9	0.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	Mid Ch, EUT Y, 1 MBPS
12060.440	44.8	-4.2	1.5	279.9	0.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	Low Ch, EUT Y, 1 MBPS
12309.770	44.1	-3.7	1.0	4.9	0.0	0.0	Horz	PK	0.0	40.4	74.0	-33.6	High Ch, EUT Y, 1 MBPS
12310.090	43.9	-3.7	1.5	333.0	0.0	0.0	Vert	PK	0.0	40.2	74.0	-33.8	High Ch, EUT Y, 1 MBPS
12060.380	44.2	-4.2	2.5	326.0	0.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	Low Ch, EUT Y, 1 MBPS

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	V700	Work Order:	WTVD0086
Serial Number:	BWL7-000539	Date:	2022-12-21
Customer:	Motorola Solutions Inc.	Temperature:	21.6°C
Attendees:	Navaid Karimi	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure (PMSL):	1013 mb
Tested By:	Brandon Hobbs and Marty Martin	Job Site:	TX02
Power:	Battery	Configuration:	WTVD0086-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2022	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013

TEST PARAMETERS

Run #:	63	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

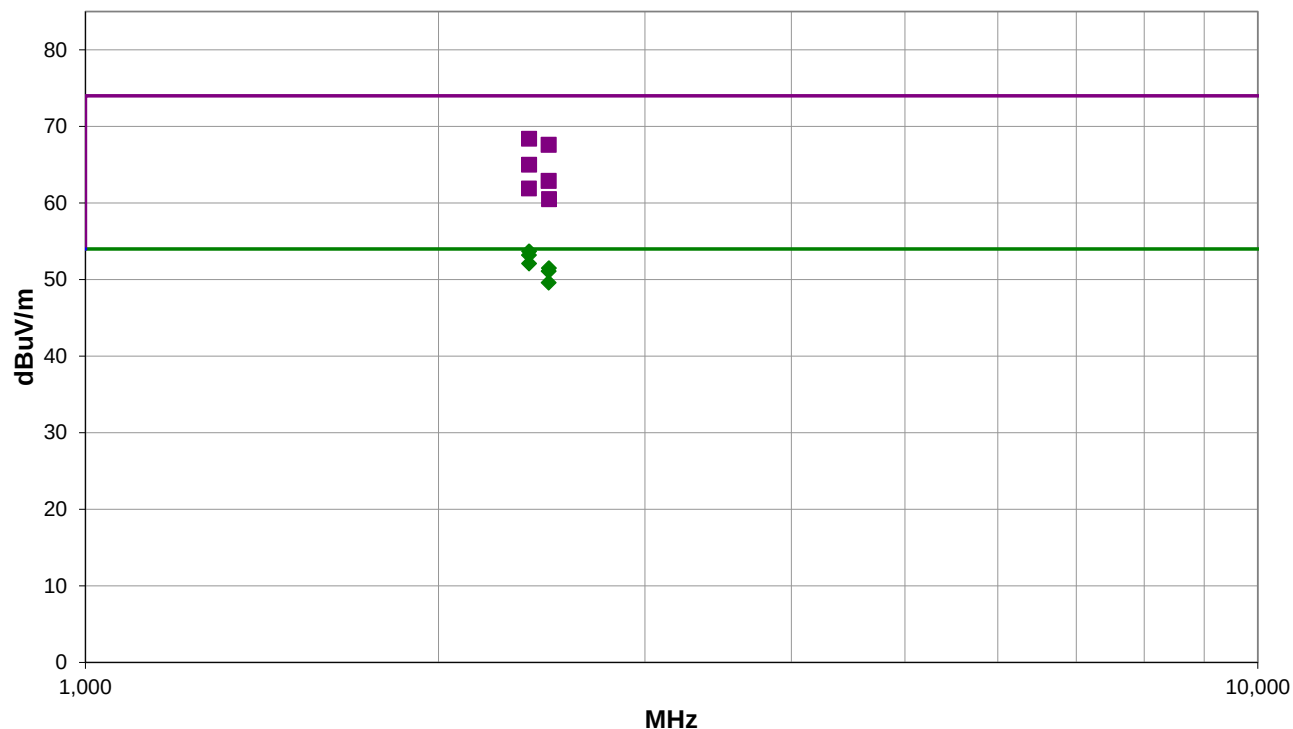
EUT fully operational and transmitting, see table for details.

EUT OPERATING MODES

Transmitting at Low Channel 1 (2412 MHz), Mid Channel 6 (2437 MHz) and High Channel 11 (2462 MHz).

DEVIATIONS FROM TEST STANDARD

None



Run #: 63

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #63

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2389.940	40.0	-6.3	3.04	151.0	3.0	20.0	Horz	AV	0.0	53.7	54.0	-0.3	Low Ch, EUT Y, MCS0
2389.210	39.5	-6.3	2.98	339.0	3.0	20.0	Horz	AV	0.0	53.2	54.0	-0.8	Low Ch, EUT Y, 1 Mbps
2389.810	38.4	-6.3	3.19	264.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	Low Ch, EUT Y, MCS7
2484.677	37.5	-6.0	2.49	122.0	3.0	20.0	Horz	AV	0.0	51.5	54.0	-2.5	High Ch, EUT Y, 1 Mbps
2483.503	37.1	-6.0	2.87	336.0	3.0	20.0	Horz	AV	0.0	51.1	54.0	-2.9	High Ch, EUT Y, MCS0
2483.530	35.6	-6.0	3.21	154.9	3.0	20.0	Horz	AV	0.0	49.6	54.0	-4.4	High Ch, EUT Y, MCS7
2389.937	54.7	-6.3	3.04	151.0	3.0	20.0	Horz	PK	0.0	68.4	74.0	-5.6	Low Ch, EUT Y, MCS0
2483.507	53.6	-6.0	2.87	336.0	3.0	20.0	Horz	PK	0.0	67.6	74.0	-6.4	High Ch, EUT Y, MCS0
2389.547	51.3	-6.3	3.19	264.0	3.0	20.0	Horz	PK	0.0	65.0	74.0	-9.0	Low Ch, EUT Y, MCS7
2483.807	48.9	-6.0	3.21	154.9	3.0	20.0	Horz	PK	0.0	62.9	74.0	-11.1	High Ch, EUT Y, MCS7
2389.177	48.2	-6.3	2.98	339.0	3.0	20.0	Horz	PK	0.0	61.9	74.0	-12.1	Low Ch, EUT Y, 1 Mbps
2485.197	46.5	-6.0	2.49	122.0	3.0	20.0	Horz	PK	0.0	60.5	74.0	-13.5	High Ch, EUT Y, 1 Mbps

CONCLUSION

Pass



Tested By

End of Test Report