SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

XMit 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2021-12-05	2022-12-05
Attenuator	S.M. Electronics	SA26B-10	AWR	2022-07-05	2023-07-05
Attenuator	S.M. Electronics	SA26B-20	AUY	2022-03-15	2023-03-15
Block - DC	Fairview Microwave	SD3379	AMW	2022-03-14	2023-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AAW	2022-01-26	2023-01-26

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

SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

EUT:	**U8 Hawk**			**Work Order:**	**KYME0068**
Serial Number:	**192F-85E2-1761**			**Date:**	**7-Oct-22**
Customer:	**Kymeta Corp.**			**Temperature:**	**22.5 °C**
Attendees:	**Dean Busch**			**Humidity:**	**43.7% RH**
Project:	**None**			**Barometric Pres.:**	**1025 mbar**
Tested by:	**Jeff Alcoke**	**Power:**	**12 VDC**	**Job Site:**	**EV06**

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2022	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

COMMENTS

Reference level offset includes: DC Block, 30 dB attenuation, and measurement cable.

DEVIATIONS FROM TEST STANDARD

None

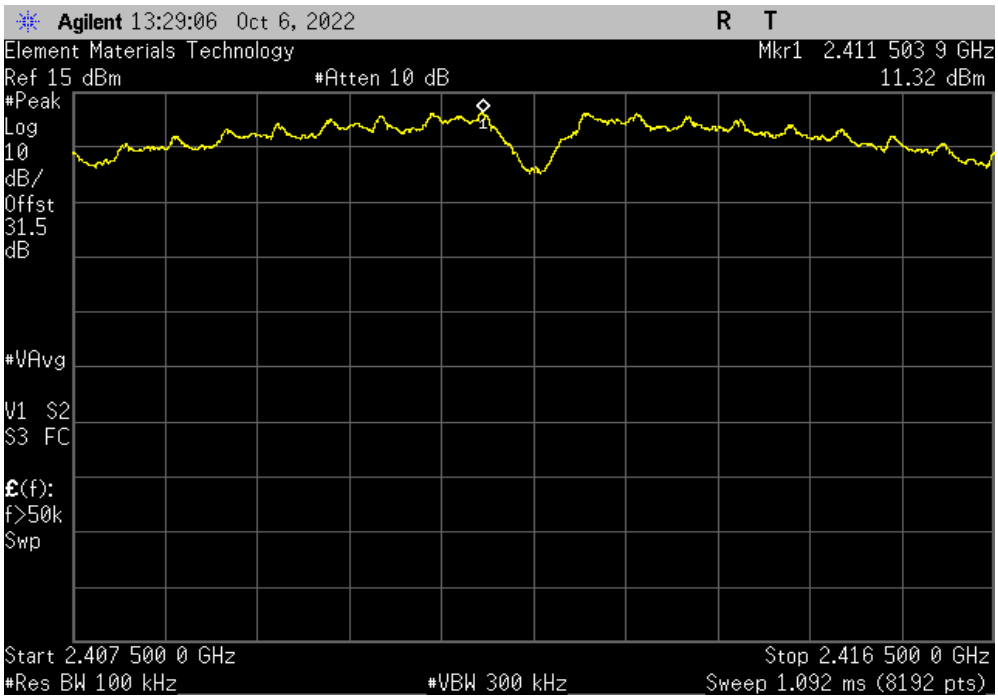
Configuration #	**1**	*Signature*

		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Chain 1						
	CCK, 1 Mbps					
	Low Channel 1, 2412 MHz	Fundamental	2411.5	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7896.3	-56.76	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24417	-50.6	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2439.01	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11720.5	-56.84	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24966.4	-50.35	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2461.51	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	10869.5	-57.49	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24787.9	-50.42	-30	Pass
	CCK, 11 Mbps					
	Low Channel 1, 2412 MHz	Fundamental	2411.32	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12398	-57.72	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24327	-51.02	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2436.44	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7119.8	-54.58	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24847.4	-48.91	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2462.52	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12471.1	-56.55	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24906.9	-49.59	-30	Pass
	Legacy OFDM, 6 Mbps					
	Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12344.7	-56.17	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24638.3	-49.08	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7049.8	-55.94	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24311.7	-49.7	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2463.29	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12413.2	-55.36	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24534.6	-48.92	-30	Pass
	Legacy OFDM, 36 Mbps					
	Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12417.8	-54.61	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24452.1	-47.98	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2444.51	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12384.3	-55.04	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24749.7	-48.19	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.51	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12299	-54.51	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24827.6	-47.86	-30	Pass
	Legacy OFDM, 54 Mbps					
	Low Channel 1, 2412 MHz	Fundamental	2413.26	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12353.8	-53.59	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24769.6	-47.88	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2444.51	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7972.4	-53.98	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24632.2	-47.27	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.52	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	11929.1	-54.59	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24845.9	-47.92	-30	Pass

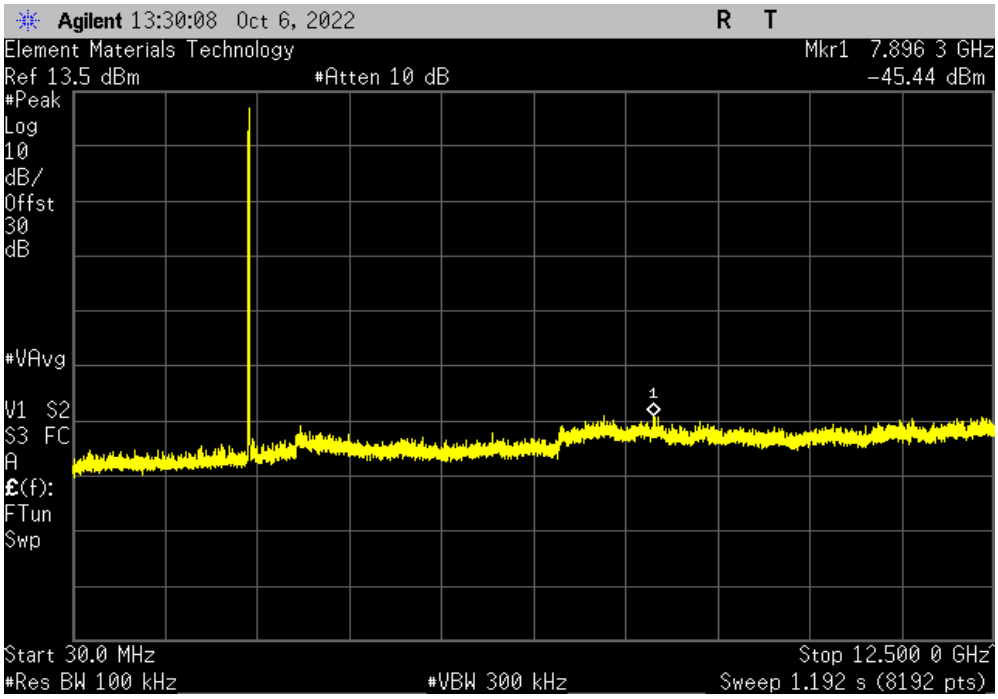
HT20, MCS0					
Low Channel 1, 2412 MHz	Fundamental	2413.26	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12197	-53.34	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24449.1	-47.09	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2438.28	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11910.8	-53.63	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24684.1	-47.28	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2463.3	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12425.4	-53.09	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24887.1	-46.04	-30	Pass
HT20, MCS7					
Low Channel 1, 2412 MHz	Fundamental	2413.27	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12154.4	-52.32	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24374.3	-45.61	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2444.51	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12356.9	-52.1	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24772.6	-45.86	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2467.02	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7234	-52.39	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24365.2	-45.48	-30	Pass
VHT20, MCS0					
Low Channel 1, 2412 MHz	Fundamental	2417.01	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12201.6	-52.71	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24365.2	-46.31	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2443.27	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12159	-52.56	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24929.8	-46	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2463.31	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7121.4	-53.41	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24690.2	-46.55	-30	Pass
VHT20, MCS8					
Low Channel 1, 2412 MHz	Fundamental	2407.01	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12387.3	-51.17	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24368.2	-45.42	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2444.52	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7218.8	-52.4	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24563.5	-44.93	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2454.54	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7202	-51.76	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24861.1	-44.73	-30	Pass
HE20, MCS0					
Low Channel 1, 2412 MHz	Fundamental	2413.29	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7304	-53.81	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24388	-47.08	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2440.74	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7130.5	-53.11	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24658.2	-46.37	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2463.27	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	10042.8	-53.68	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24923.7	-46.28	-30	Pass
HE20, MCS11					
Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	11955	-52.11	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24963.4	-46.04	-30	Pass
Mid Channel 6, 2437 MHz	Fundamental	2444.52	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12157.5	-52.44	-30	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24381.9	-45.61	-30	Pass
High Channel 11, 2462 MHz	Fundamental	2467.01	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12207.7	-51.48	-30	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24629.2	-45.33	-30	Pass

SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, CCK, 1 Mbps, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2411.5	N/A	N/A	N/A



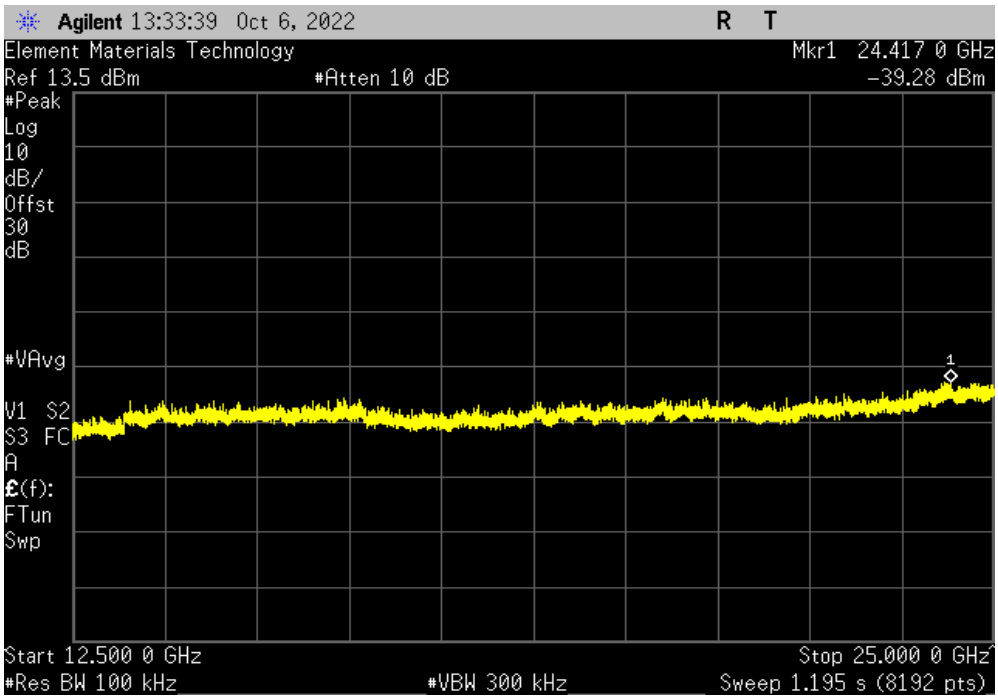
Chain 1, CCK, 1 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7896.3	-56.76	-30	Pass



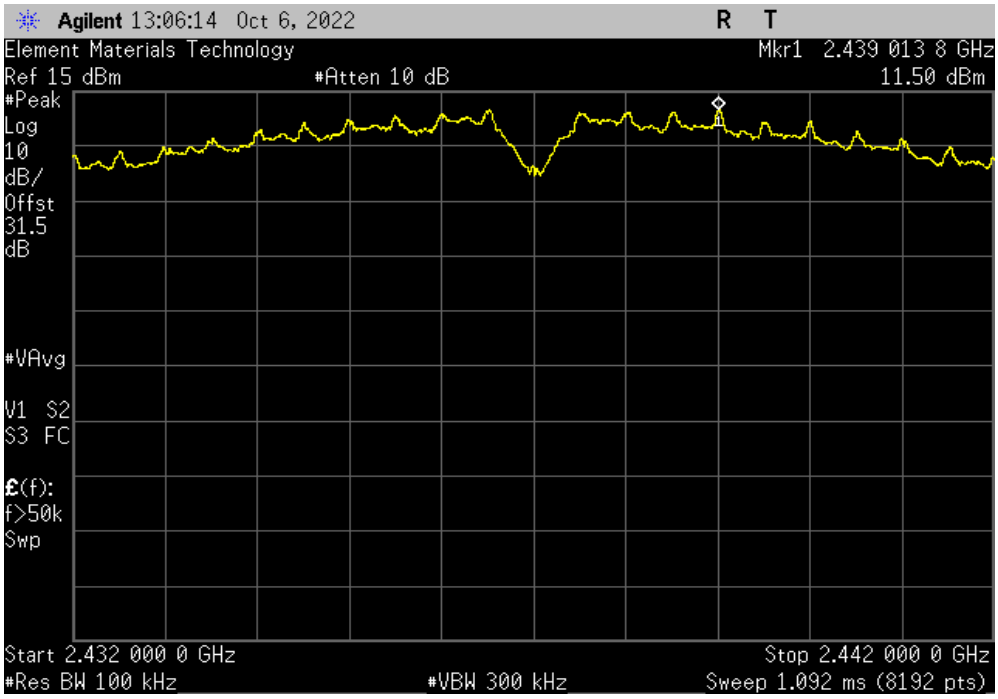
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, CCK, 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24417	-50.6	-30	Pass

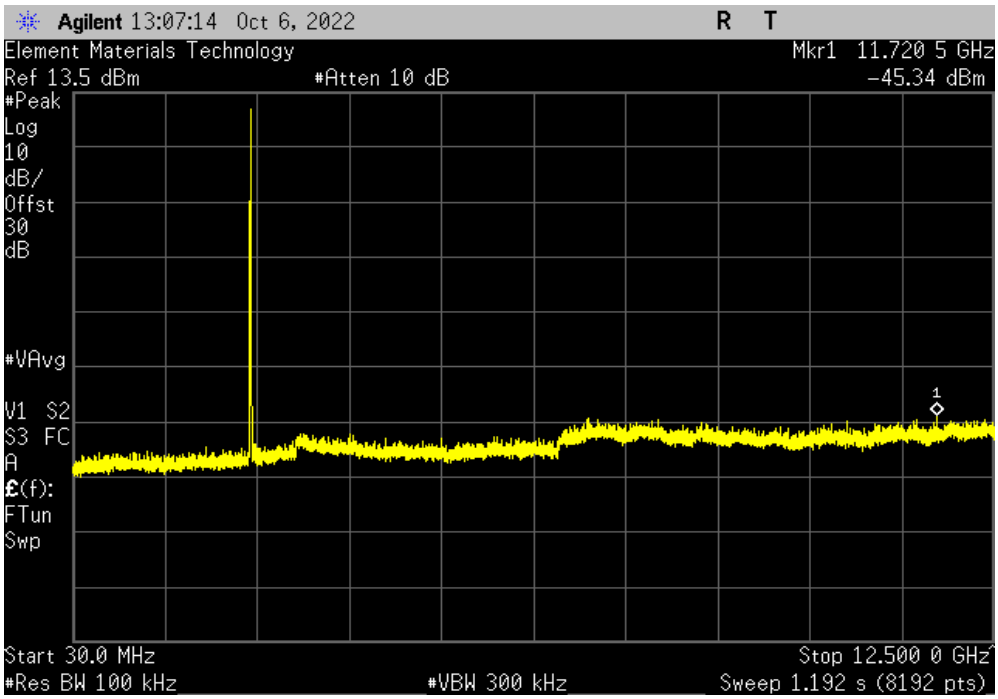


Chain 1, CCK, 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2439.01	N/A	N/A	N/A

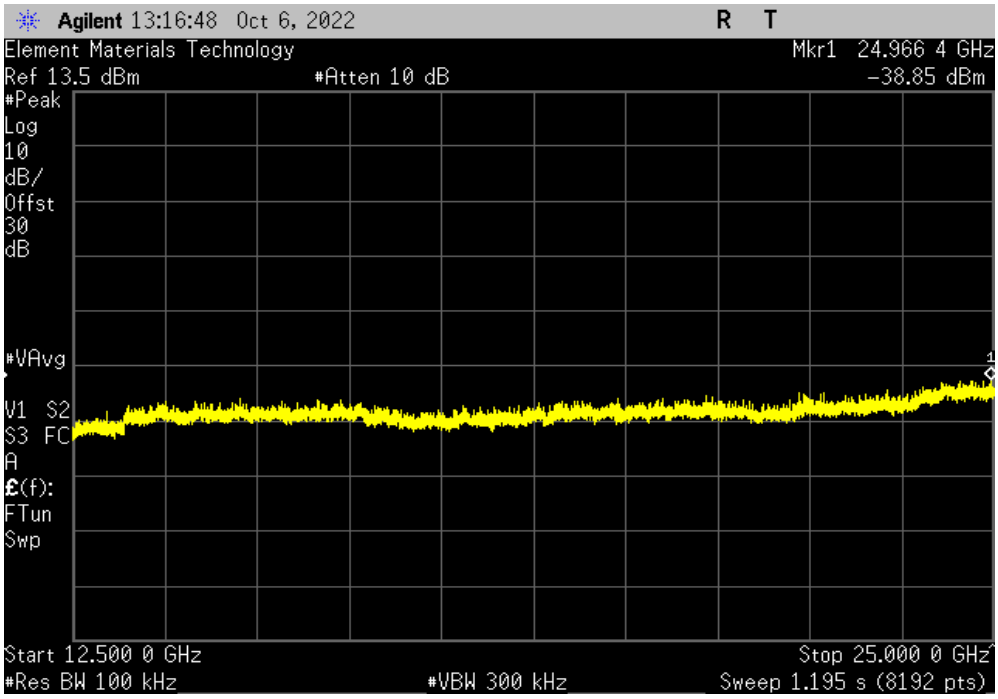


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

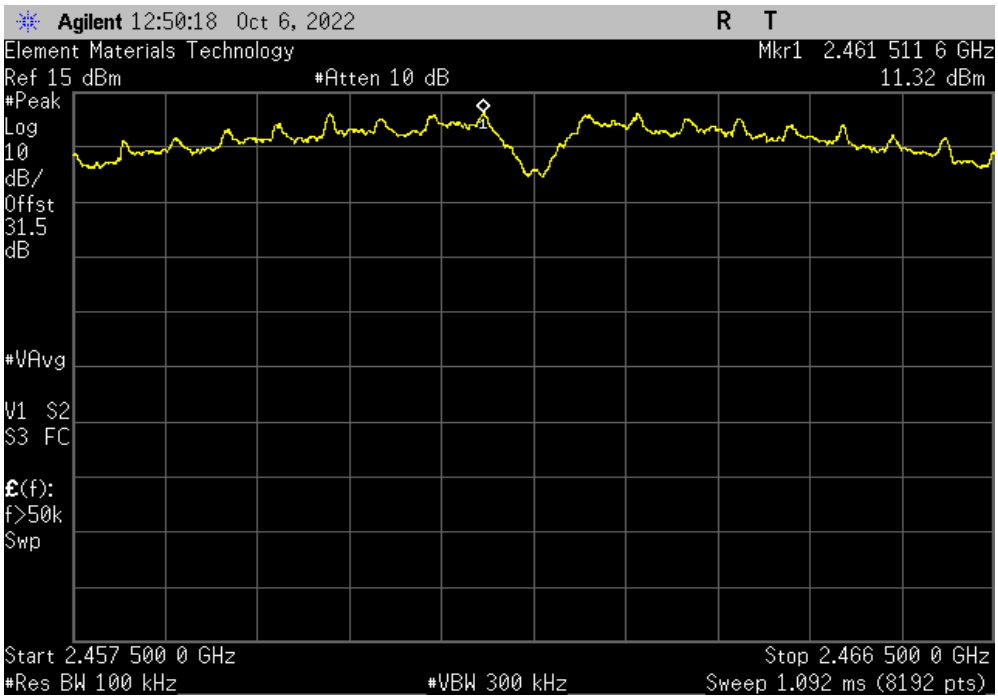
Chain 1, CCK, 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11720.5	-56.84	-30	Pass



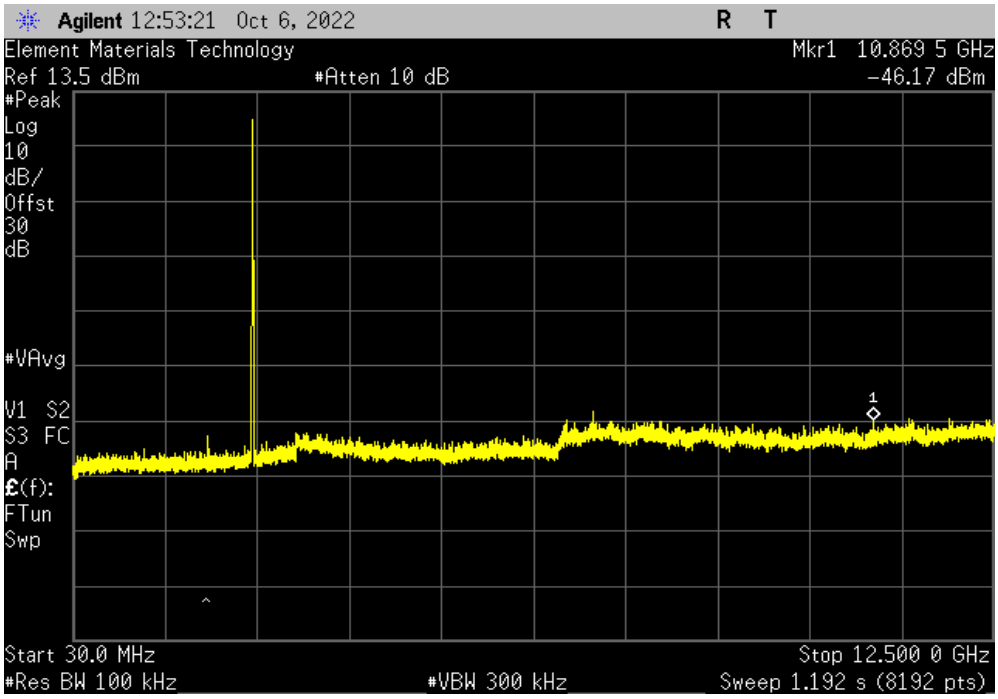
Chain 1, CCK, 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24966.4	-50.35	-30	Pass



Chain 1, CCK, 1 Mbps, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2461.51	N/A	N/A	N/A

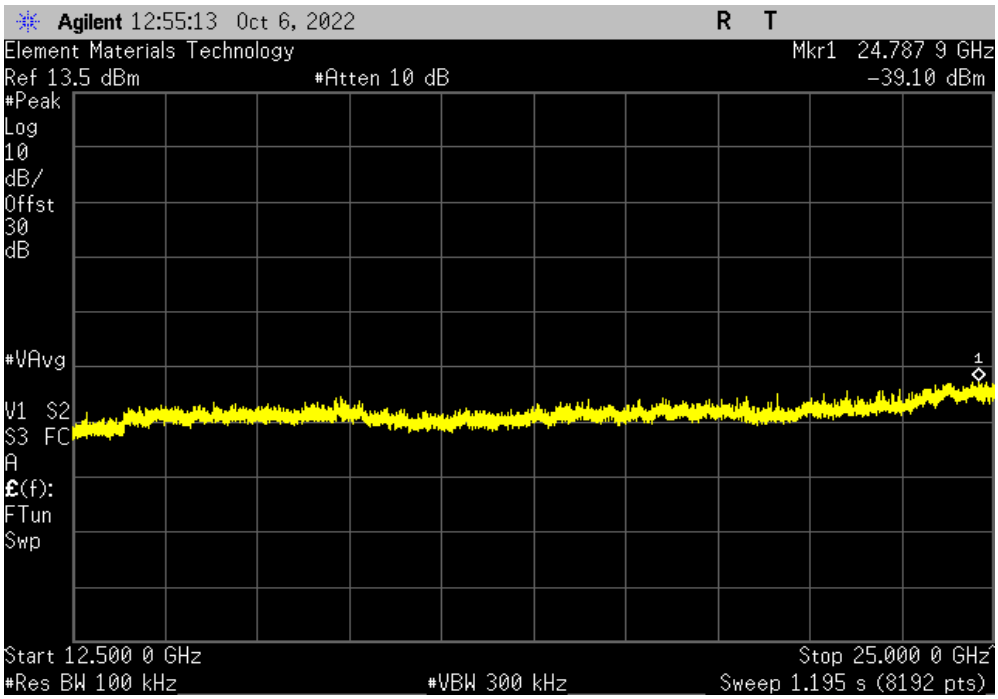


Chain 1, CCK, 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	10869.5	-57.49	-30	Pass

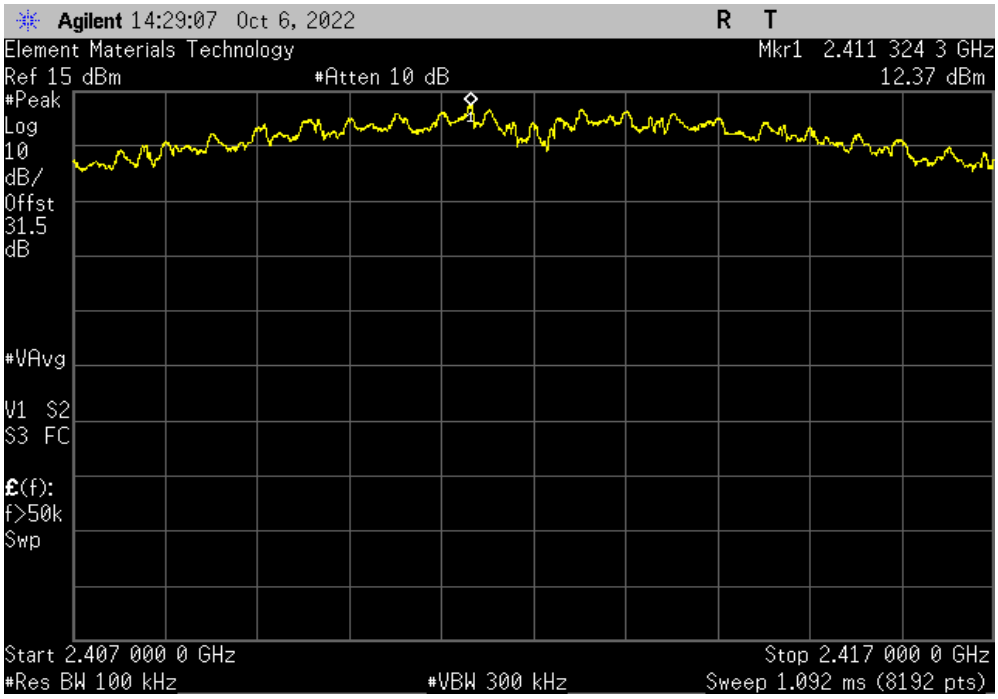


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, CCK, 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24787.9	-50.42	-30	Pass

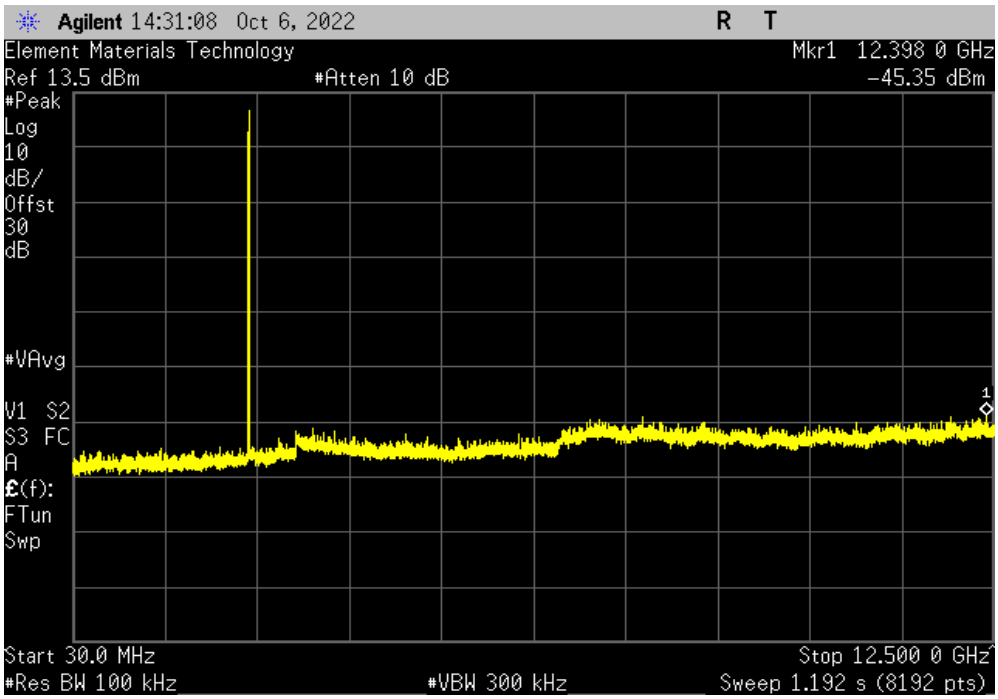


Chain 1, CCK, 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2411.32	N/A	N/A	N/A

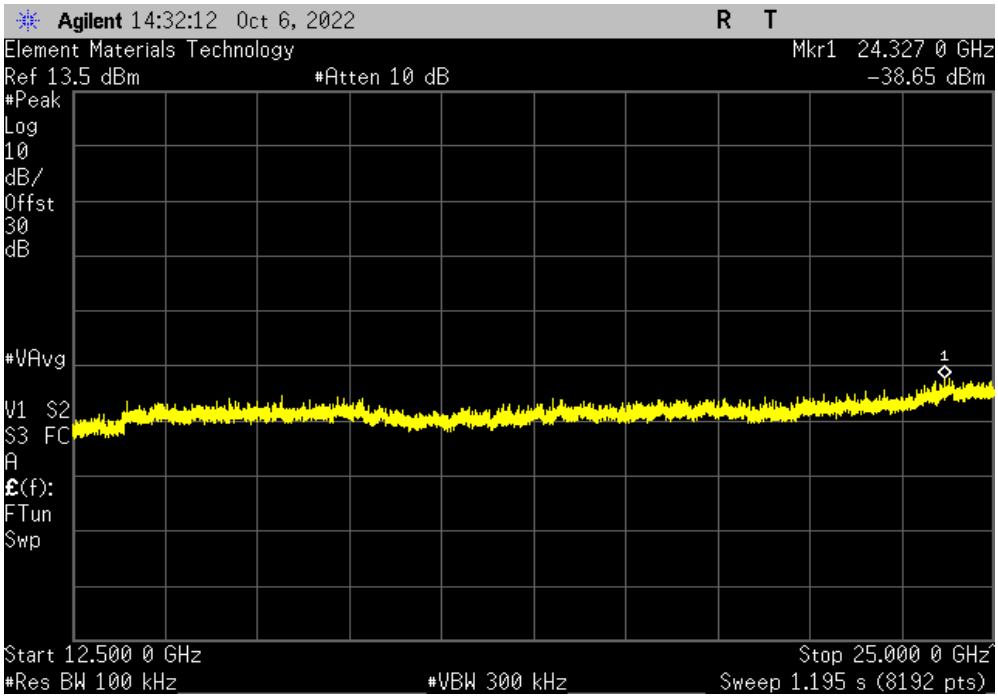


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, CCK, 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12398	-57.72	-30	Pass

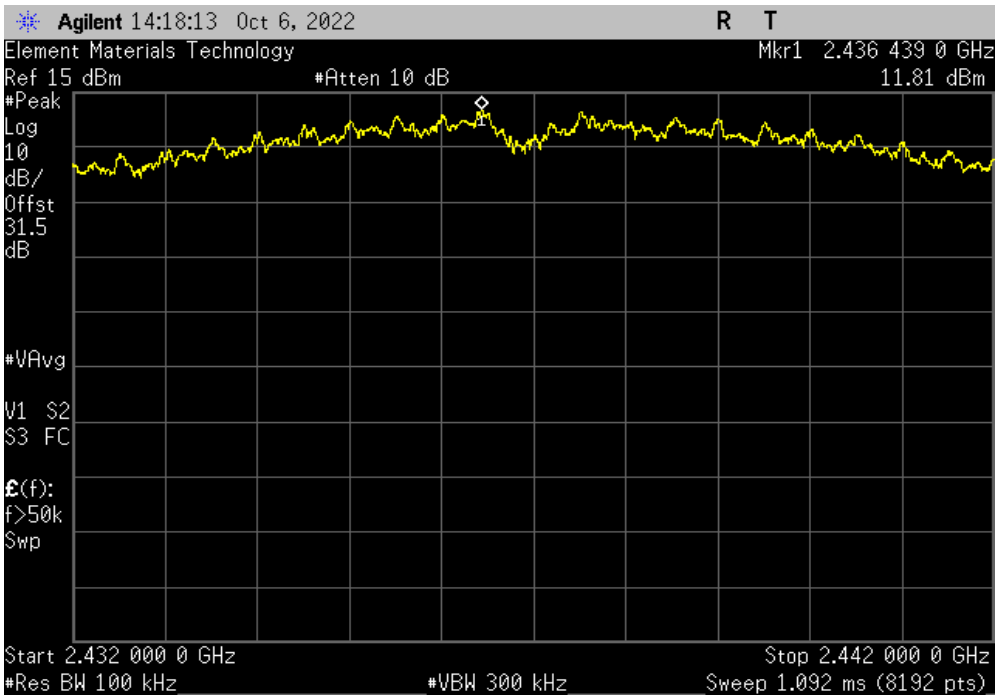


Chain 1, CCK, 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24327	-51.02	-30	Pass

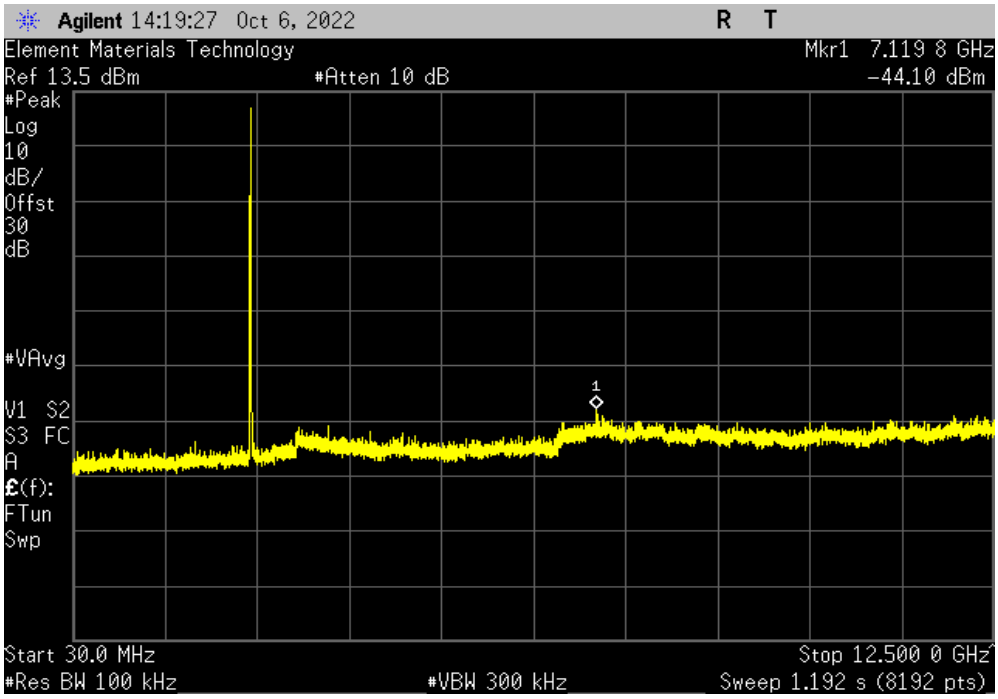


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, CCK, 11 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2436.44	N/A	N/A	N/A



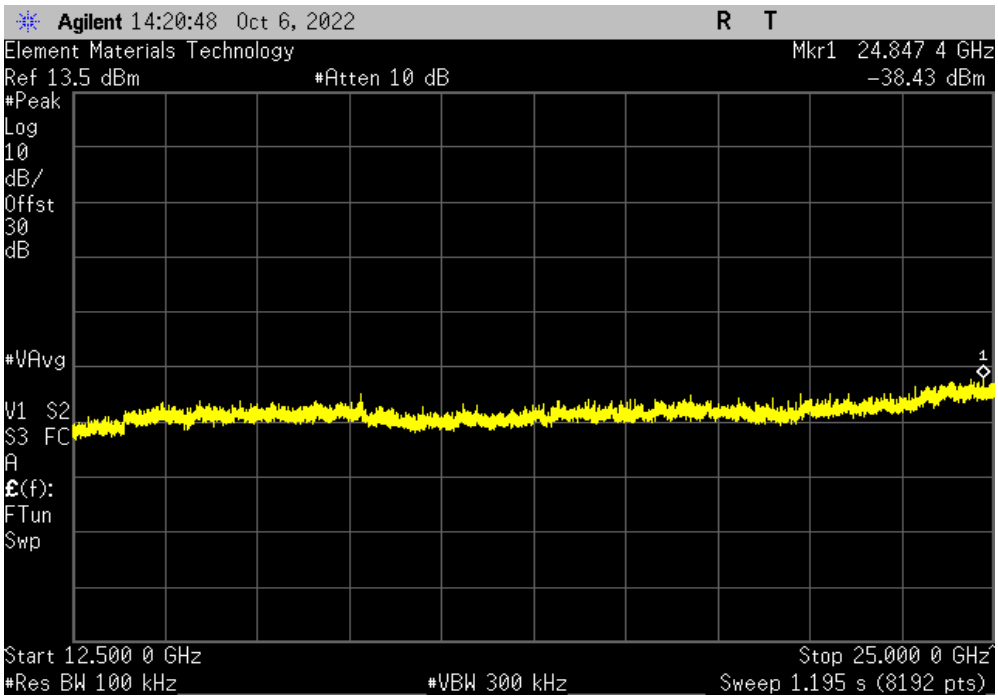
Chain 1, CCK, 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7119.8	-54.58	-30	Pass



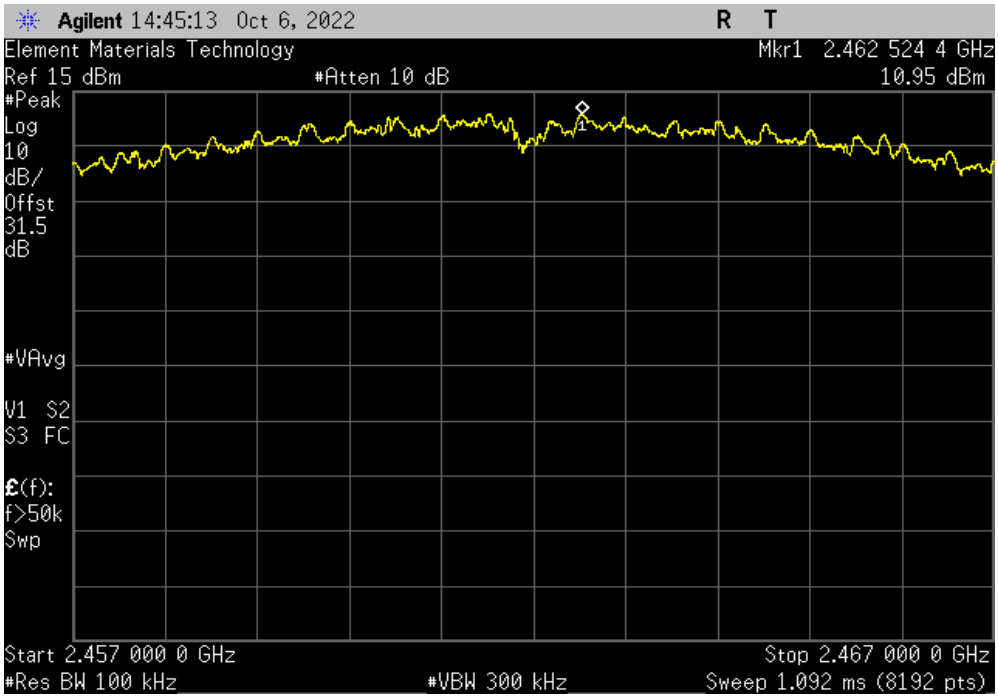
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, CCK, 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24847.4	-48.91	-30	Pass

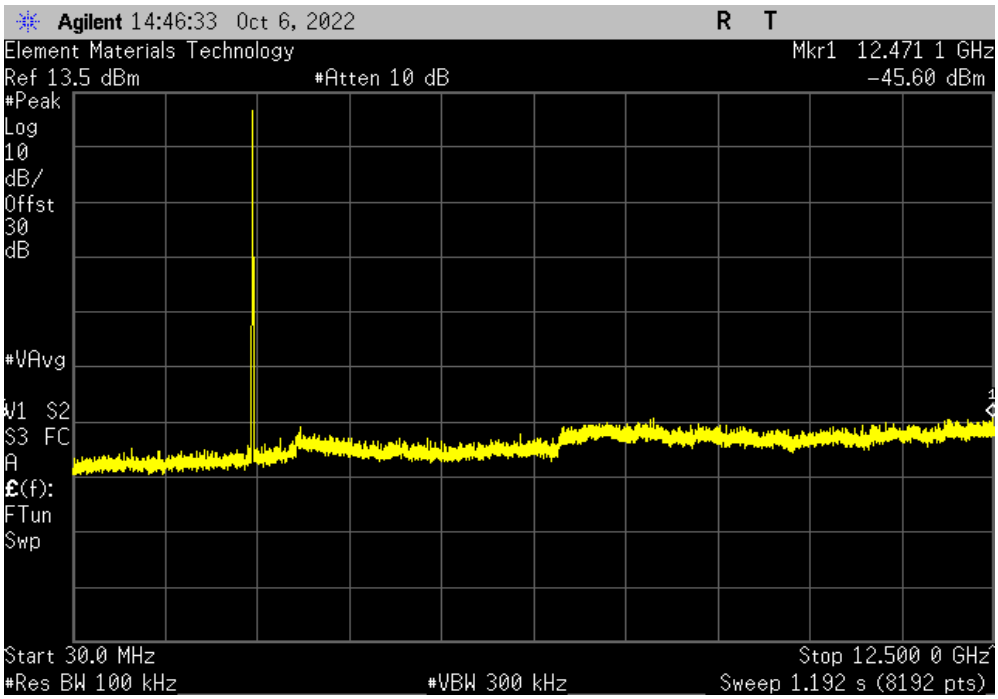


Chain 1, CCK, 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2462.52	N/A	N/A	N/A

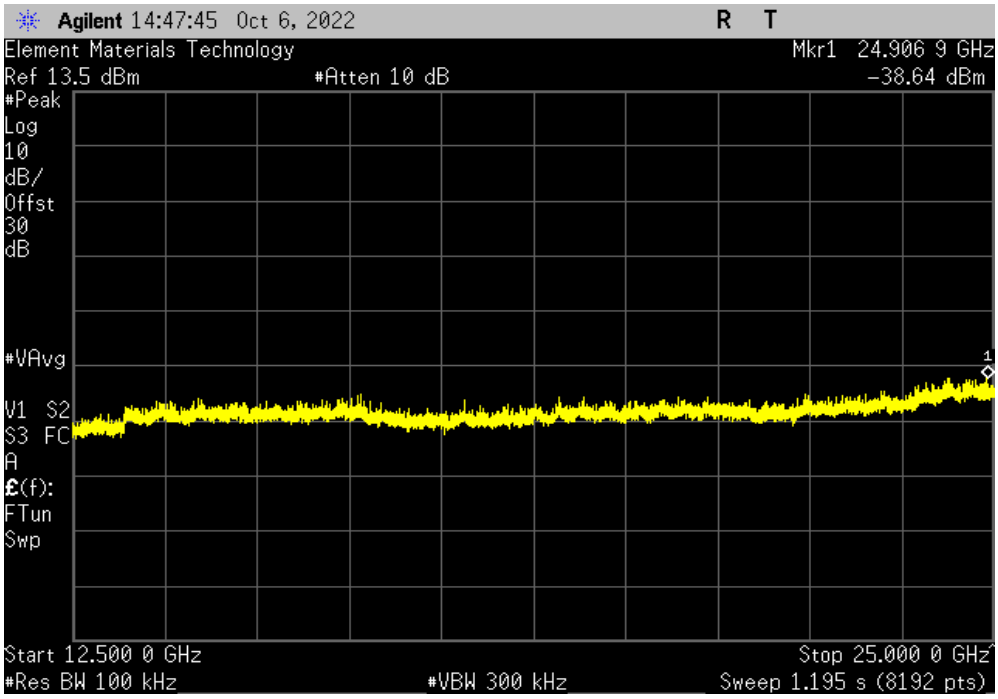


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, CCK, 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12471.1	-56.55	-30	Pass

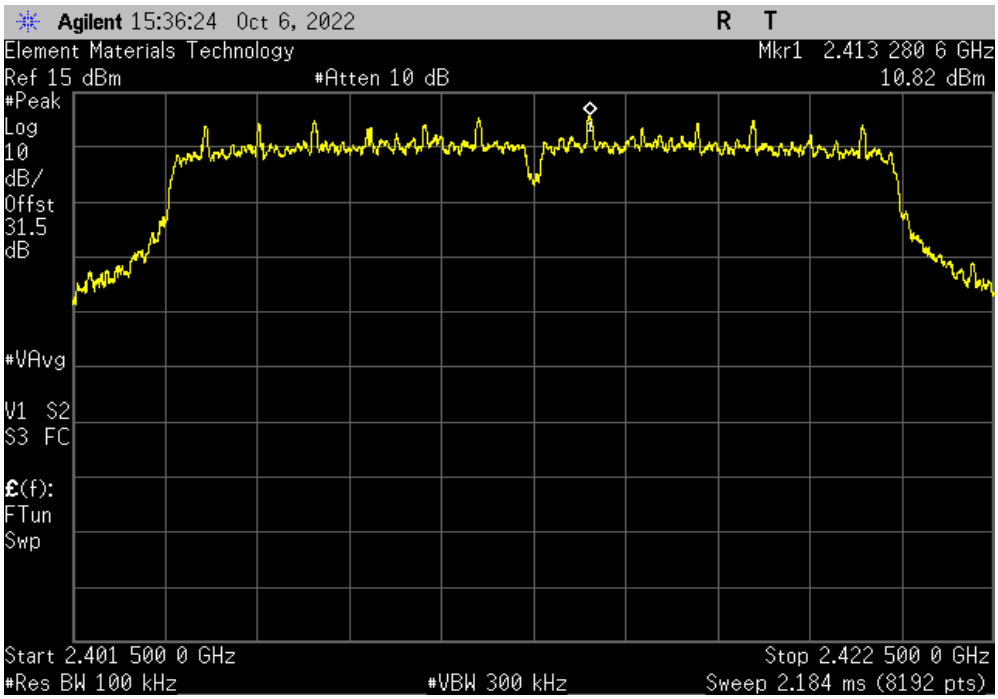


Chain 1, CCK, 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24906.9	-49.59	-30	Pass

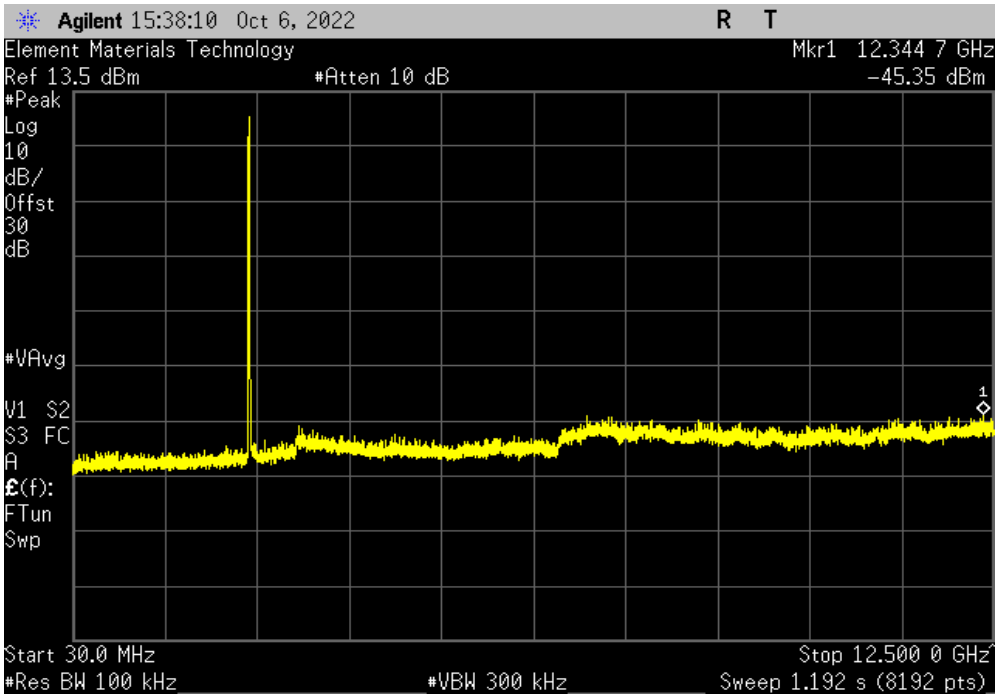


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 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



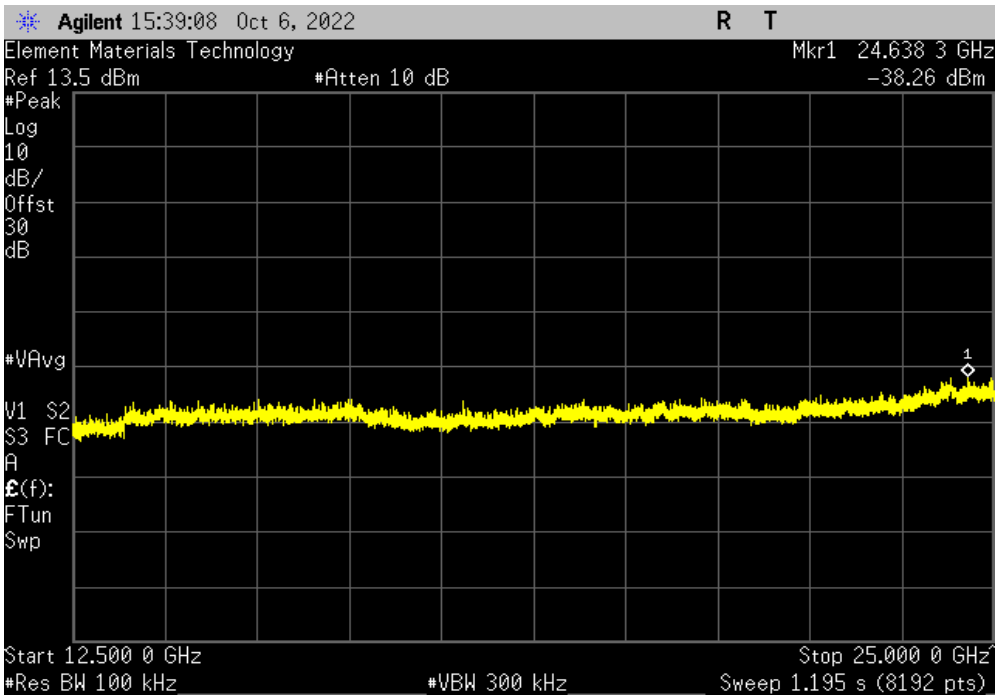
Chain 1, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12344.7	-56.17	-30	Pass



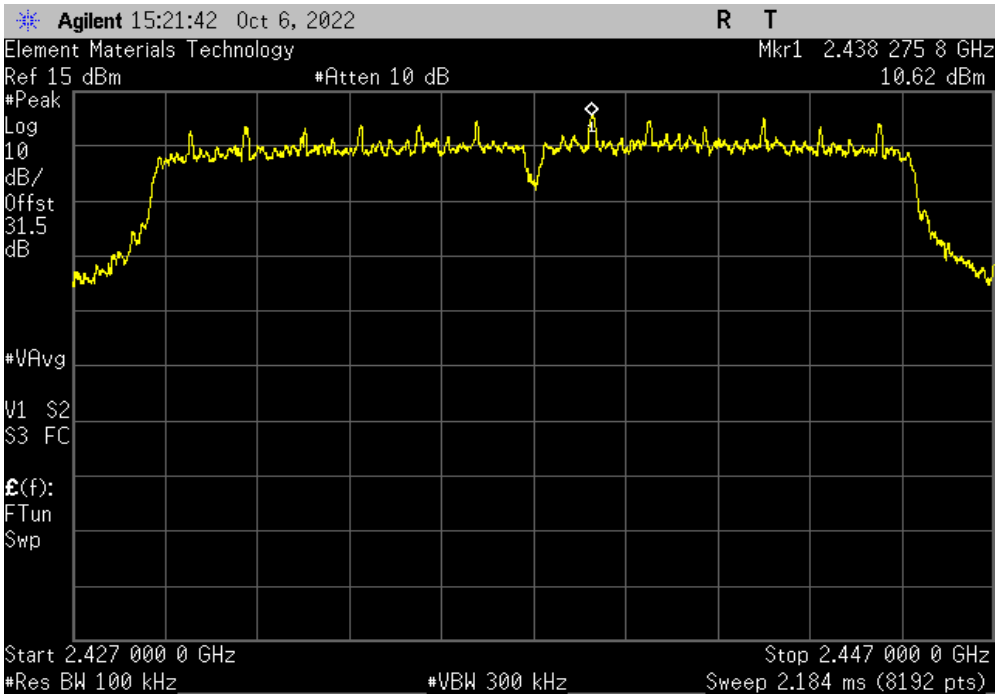
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24638.3	-49.08	-30	Pass

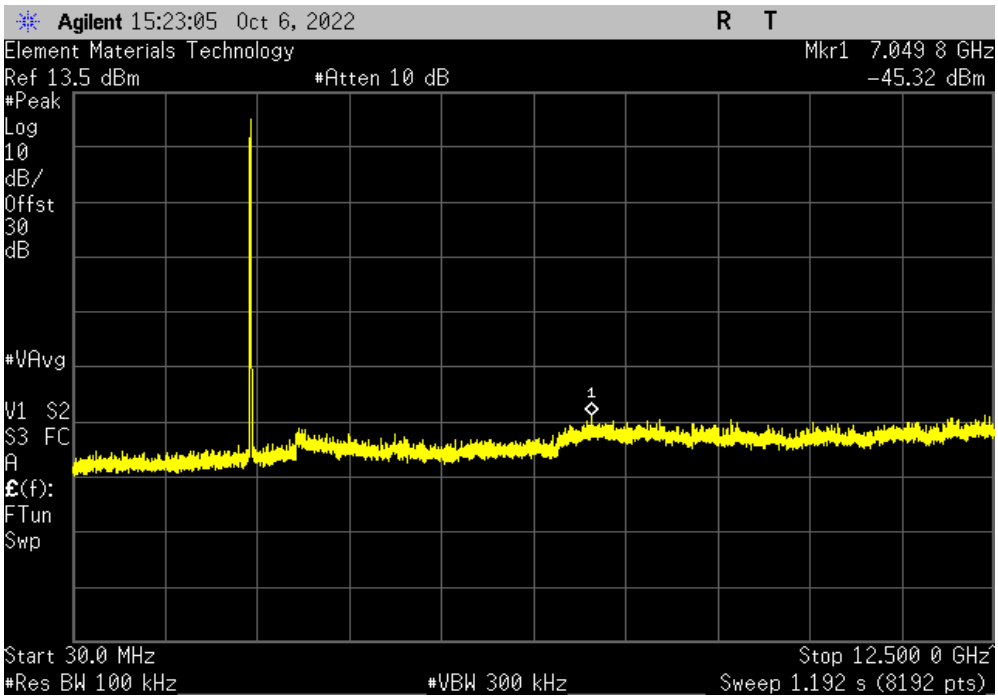


Chain 1, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2438.28	N/A	N/A	N/A

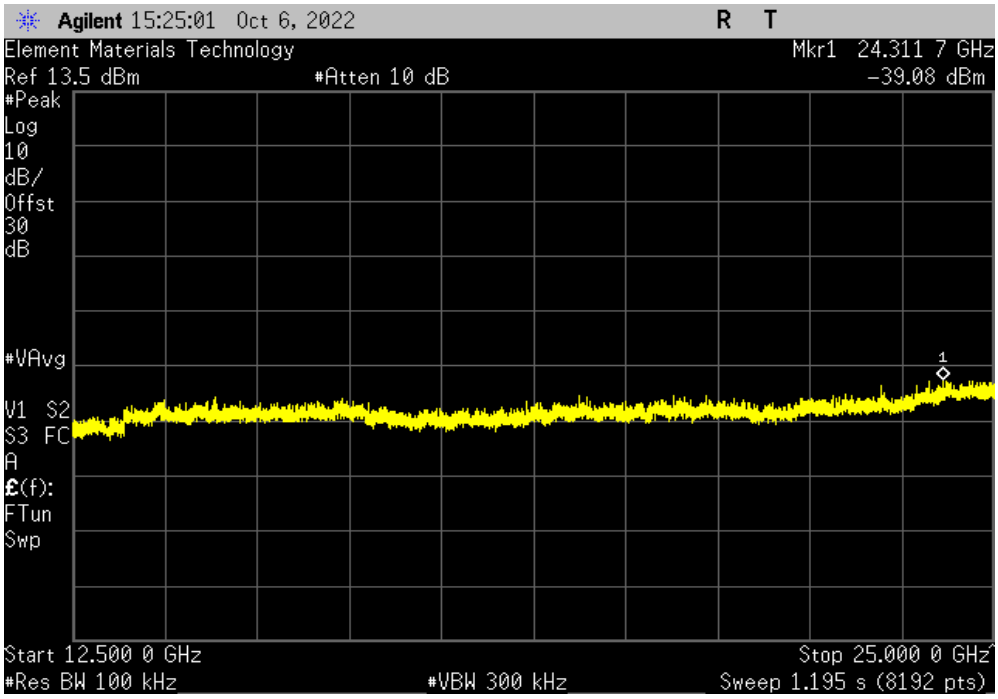


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7049.8	-55.94	-30	Pass

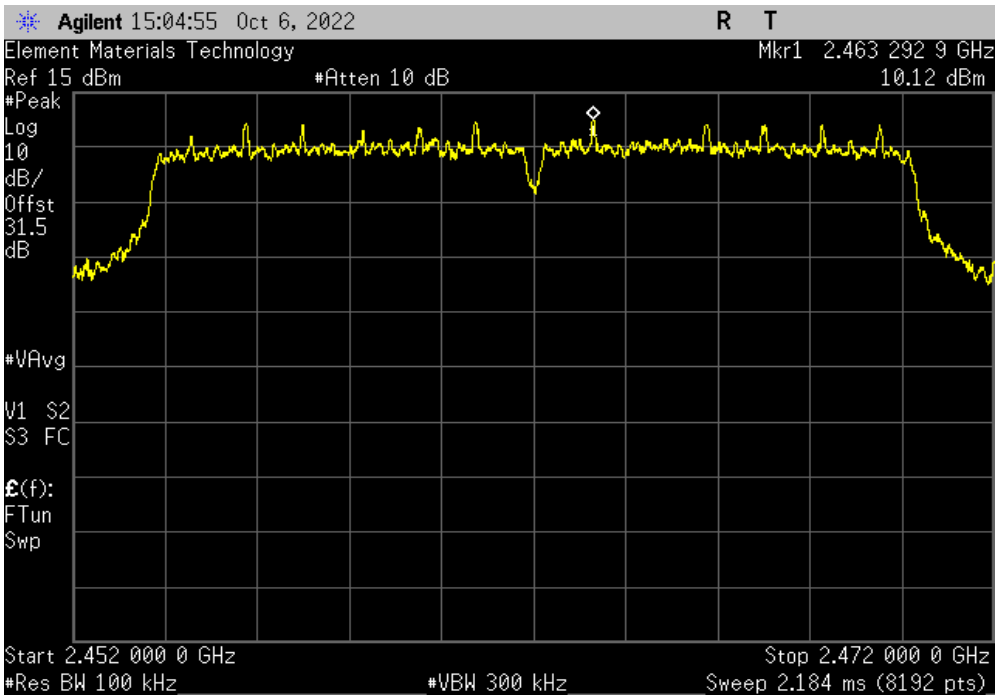


Chain 1, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24311.7	-49.7	-30	Pass

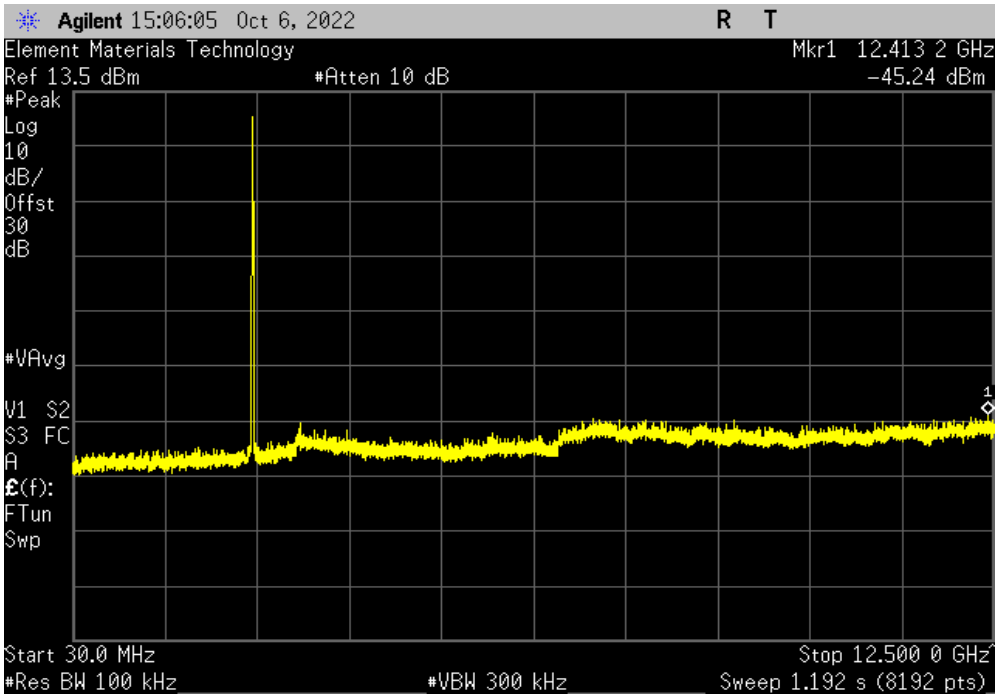


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 6 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

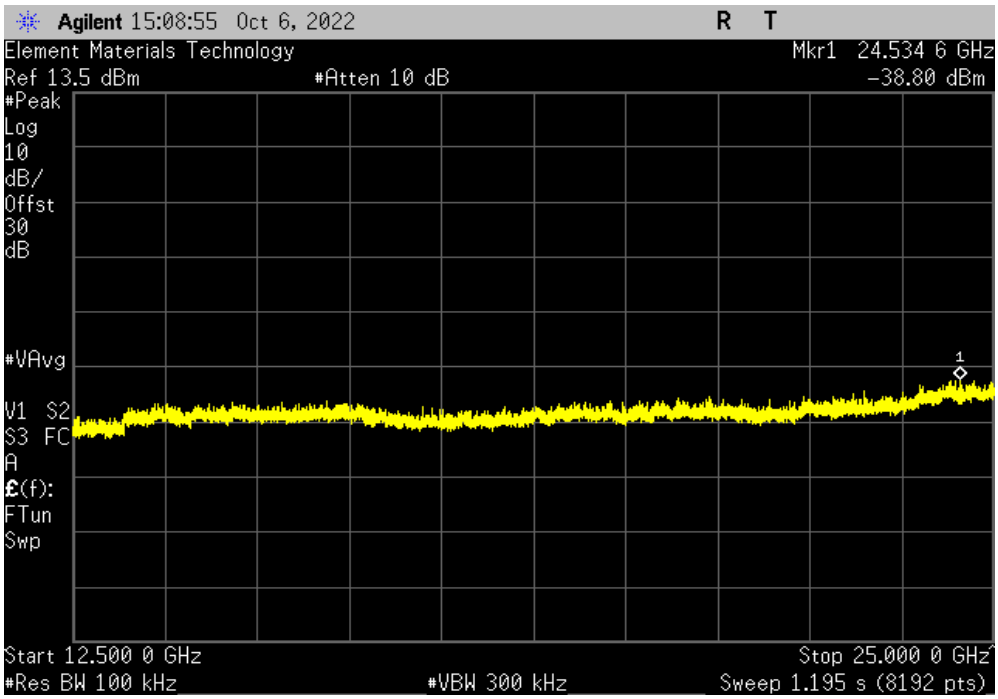


Chain 1, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12413.2	-55.36	-30	Pass

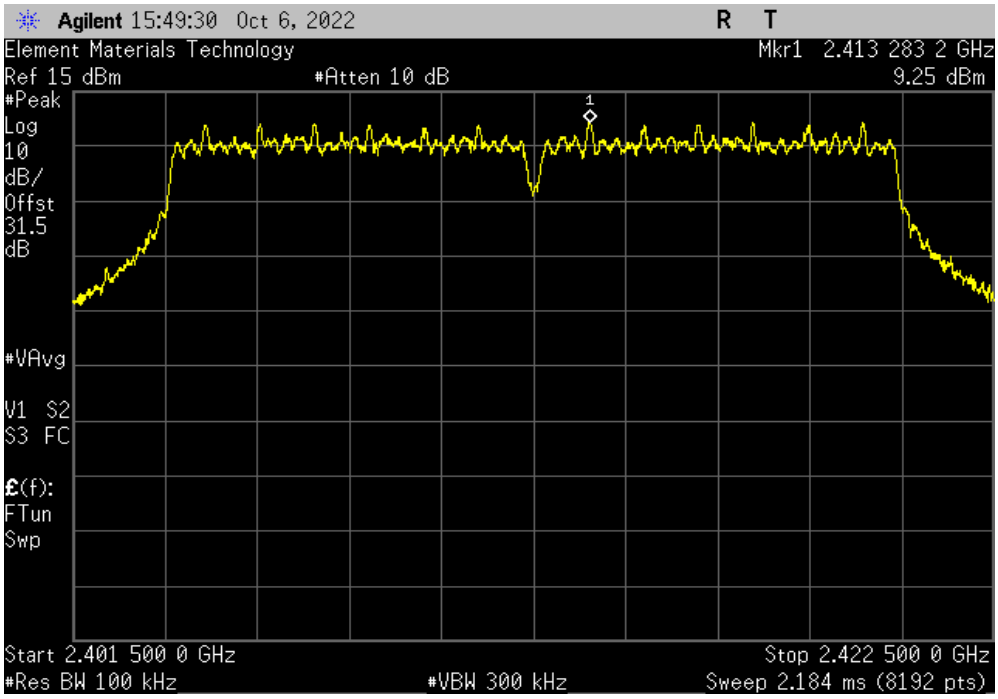


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24534.6	-48.92	-30	Pass

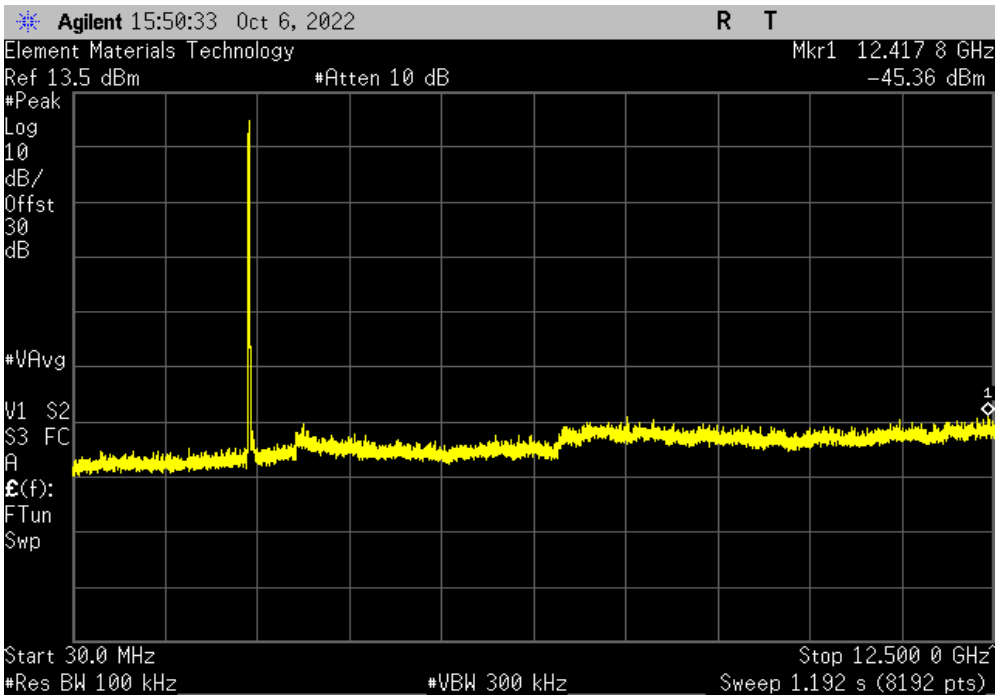


Chain 1, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2413.28	N/A	N/A	N/A

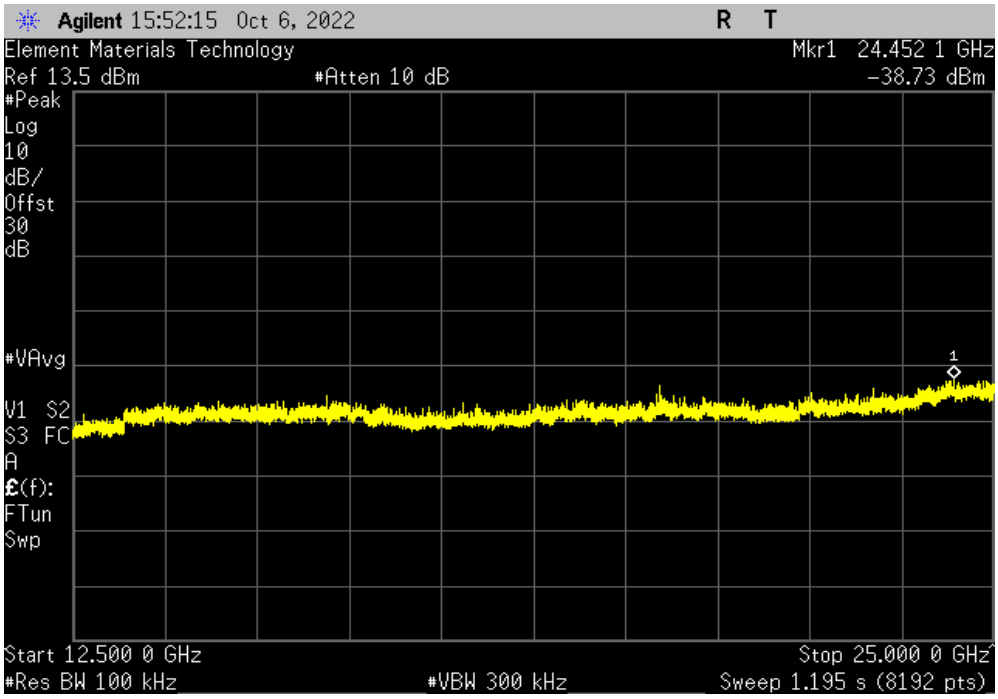


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12417.8	-54.61	-30	Pass

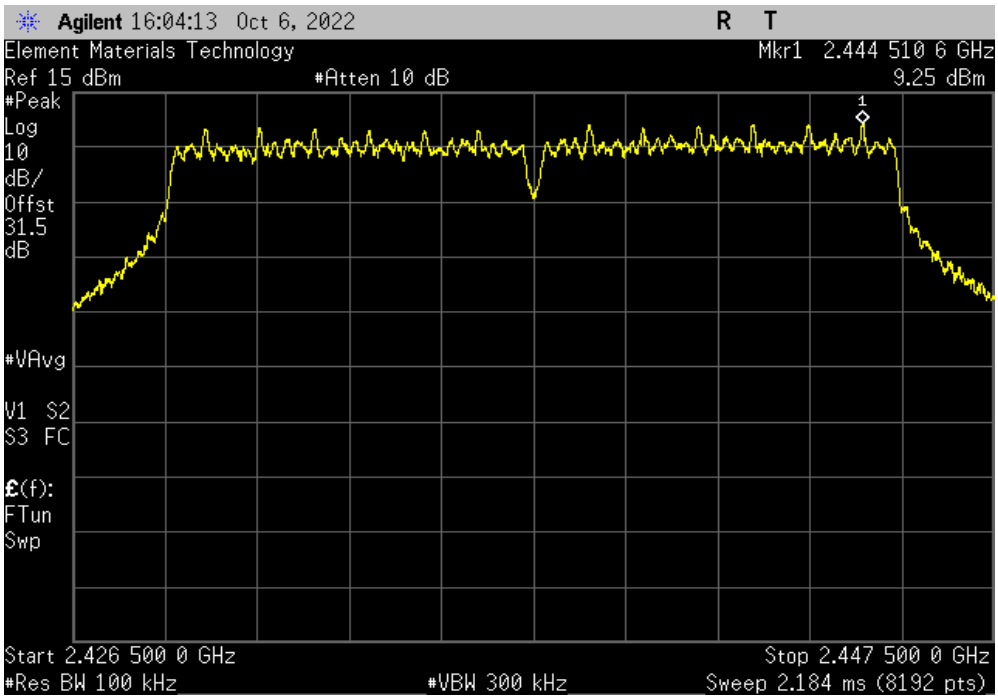


Chain 1, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24452.1	-47.98	-30	Pass

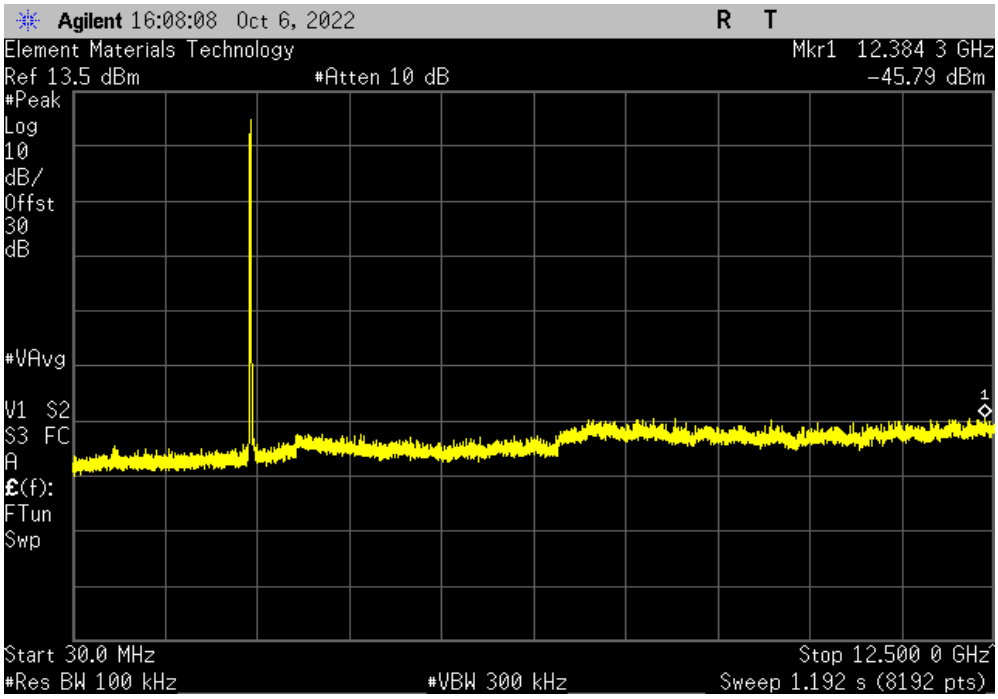


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2444.51	N/A	N/A	N/A

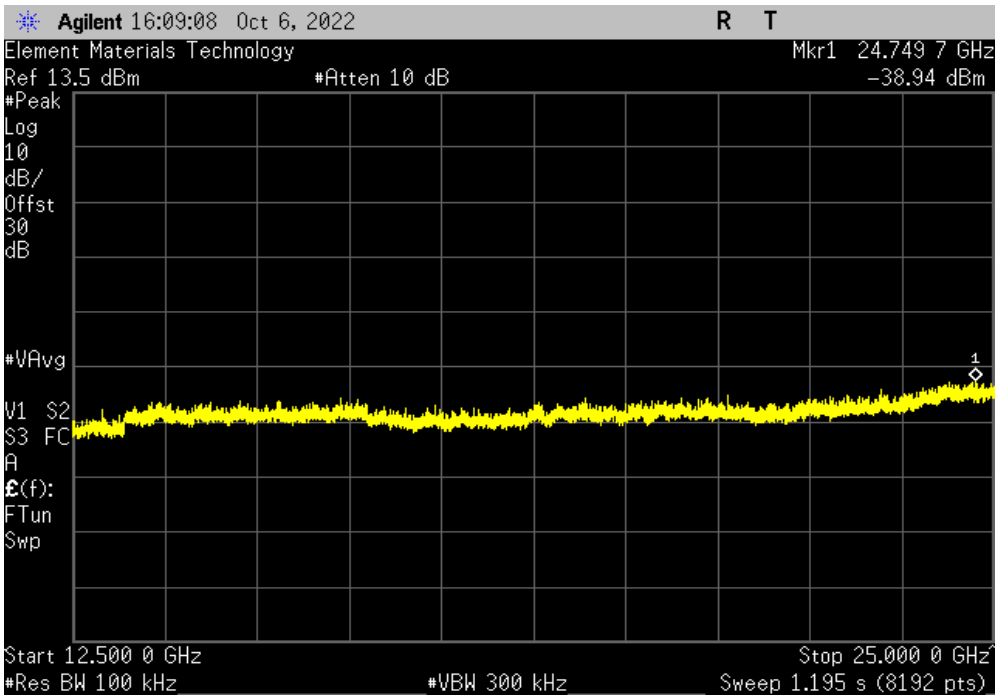


Chain 1, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12384.3	-55.04	-30	Pass

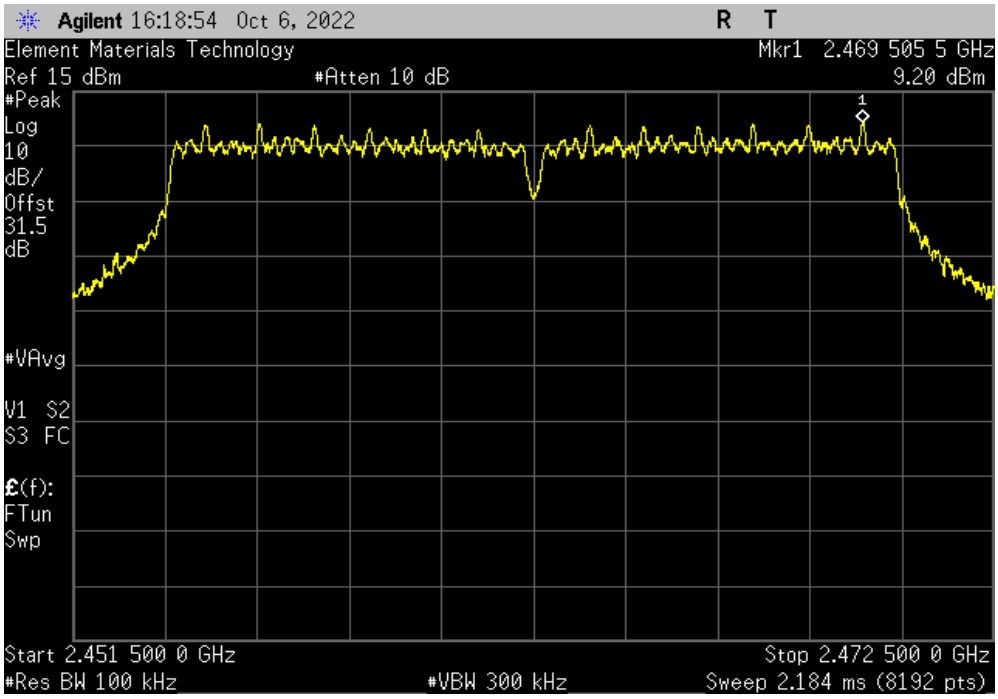


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24749.7	-48.19	-30	Pass

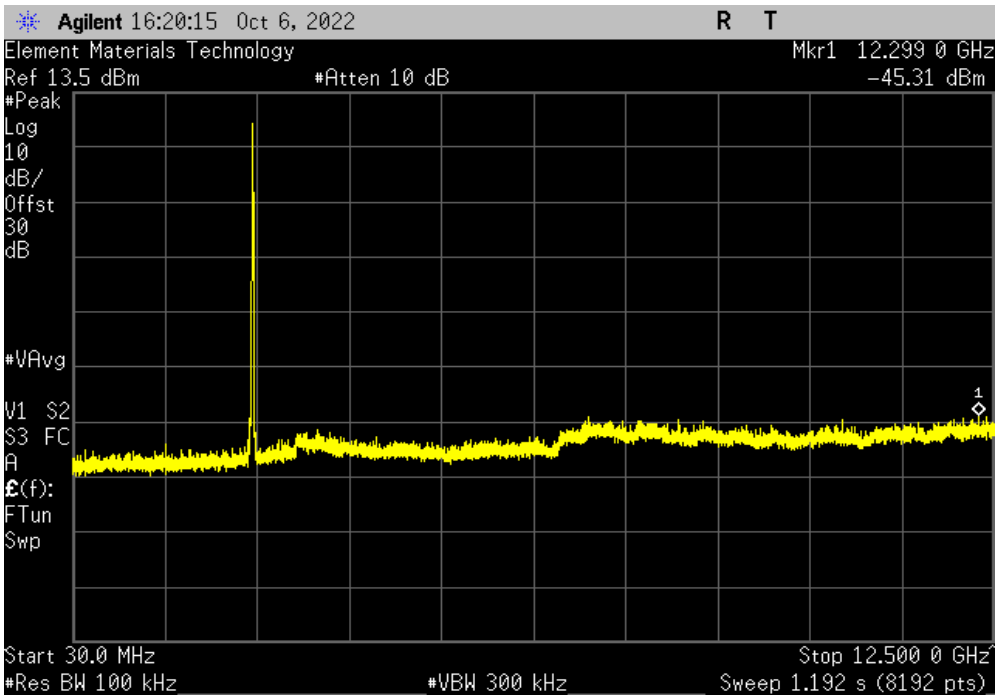


Chain 1, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2469.51	N/A	N/A	N/A

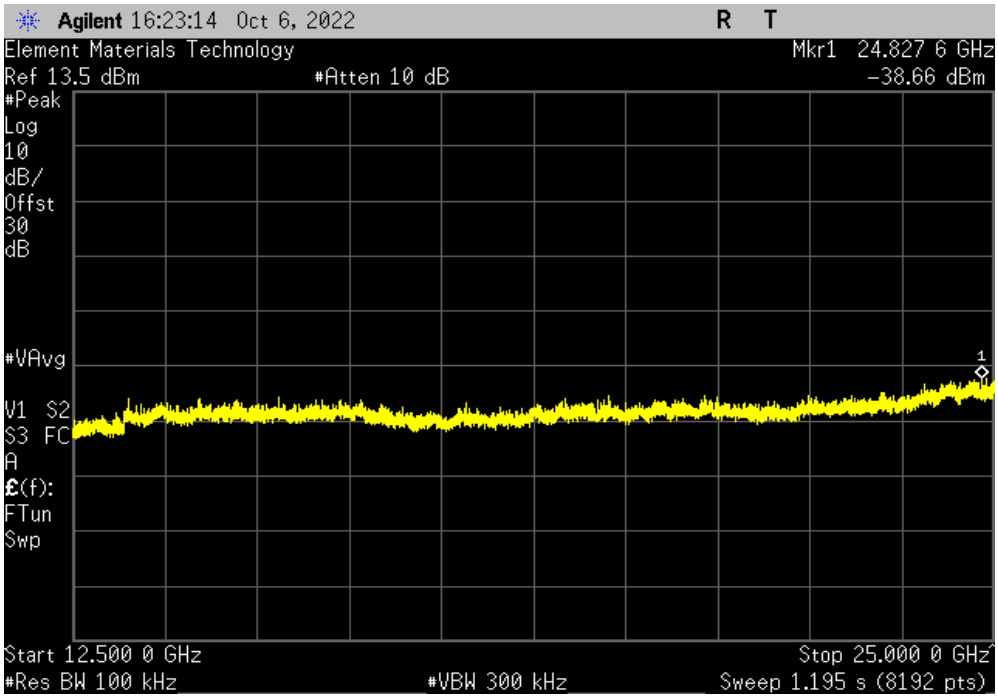


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12299	-54.51	-30	Pass

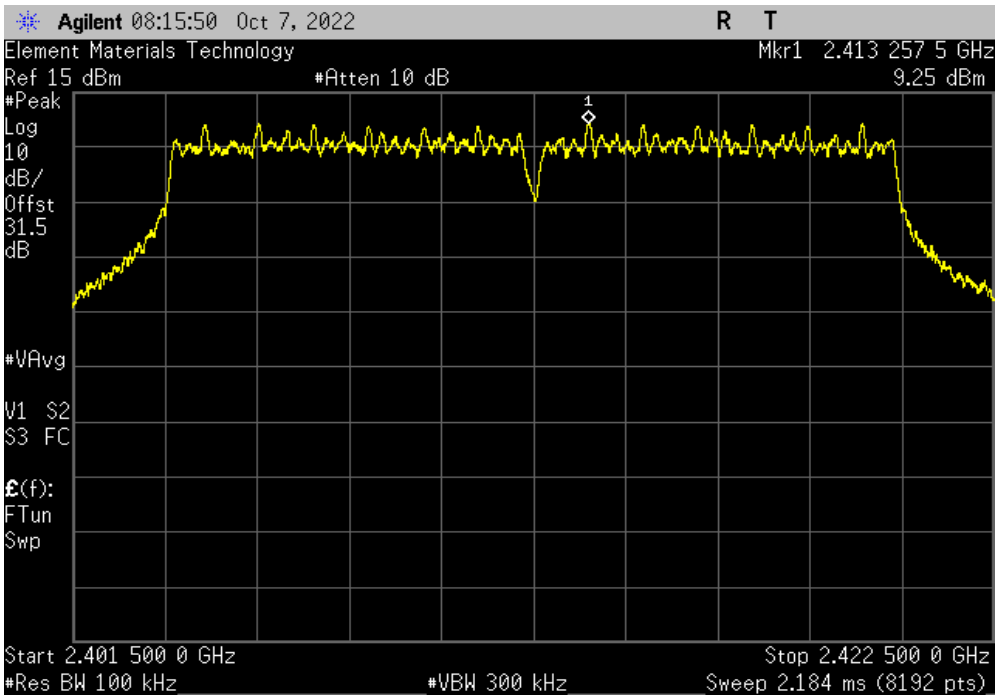


Chain 1, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24827.6	-47.86	-30	Pass

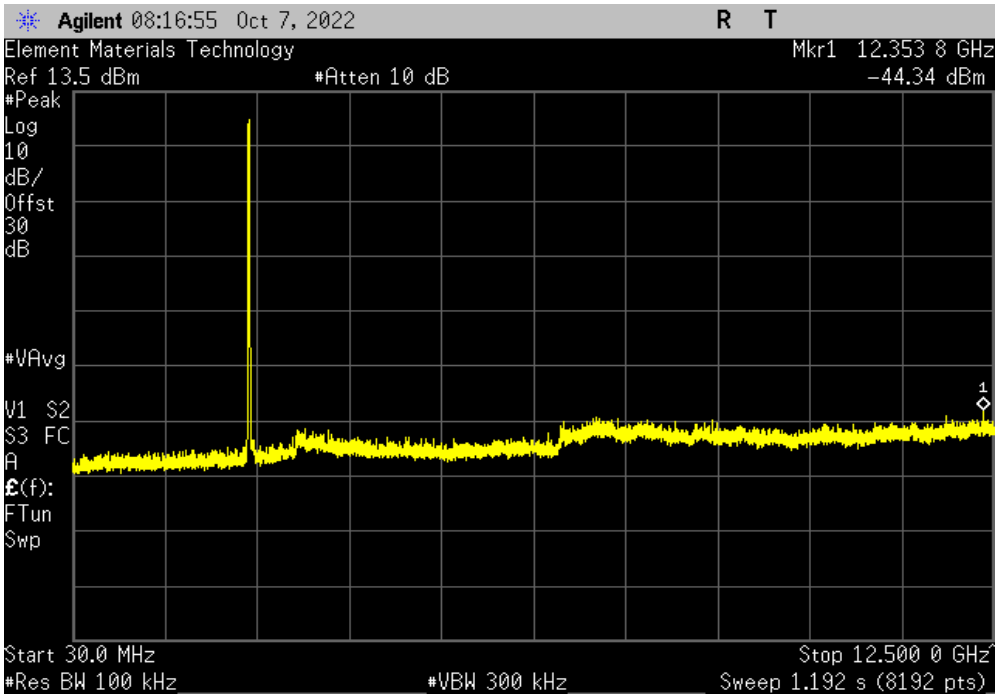


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2413.26	N/A	N/A	N/A

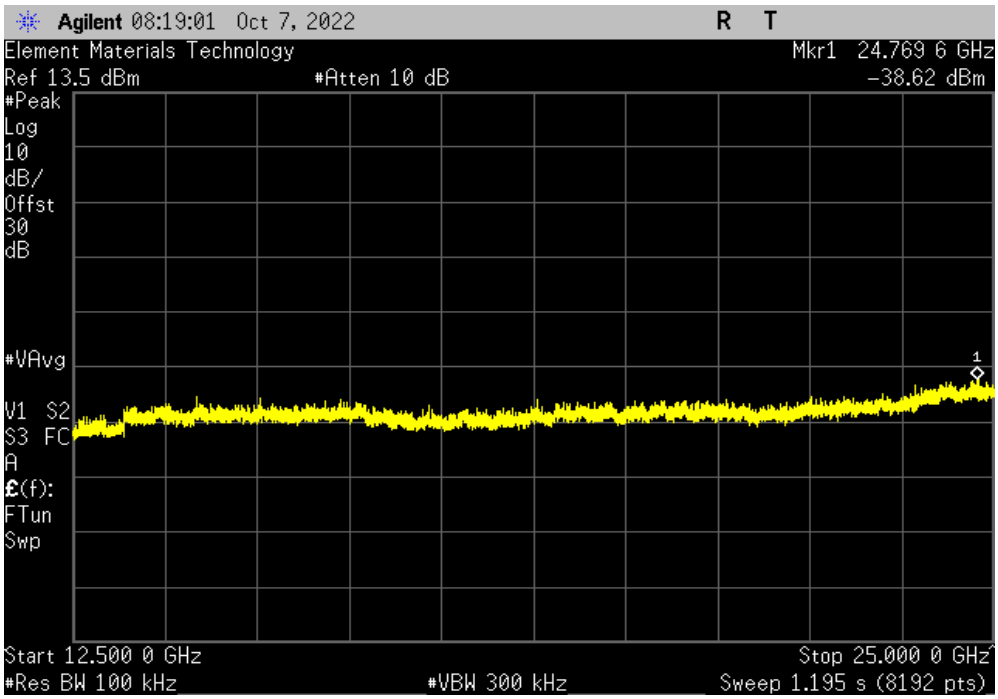


Chain 1, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12353.8	-53.59	-30	Pass

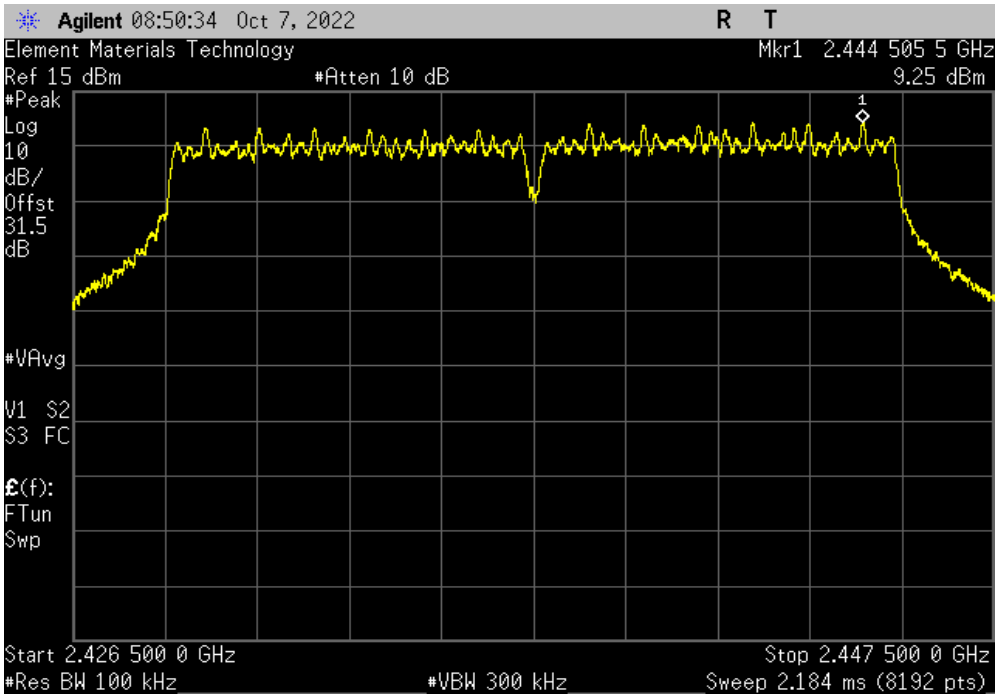


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24769.6	-47.88	-30	Pass

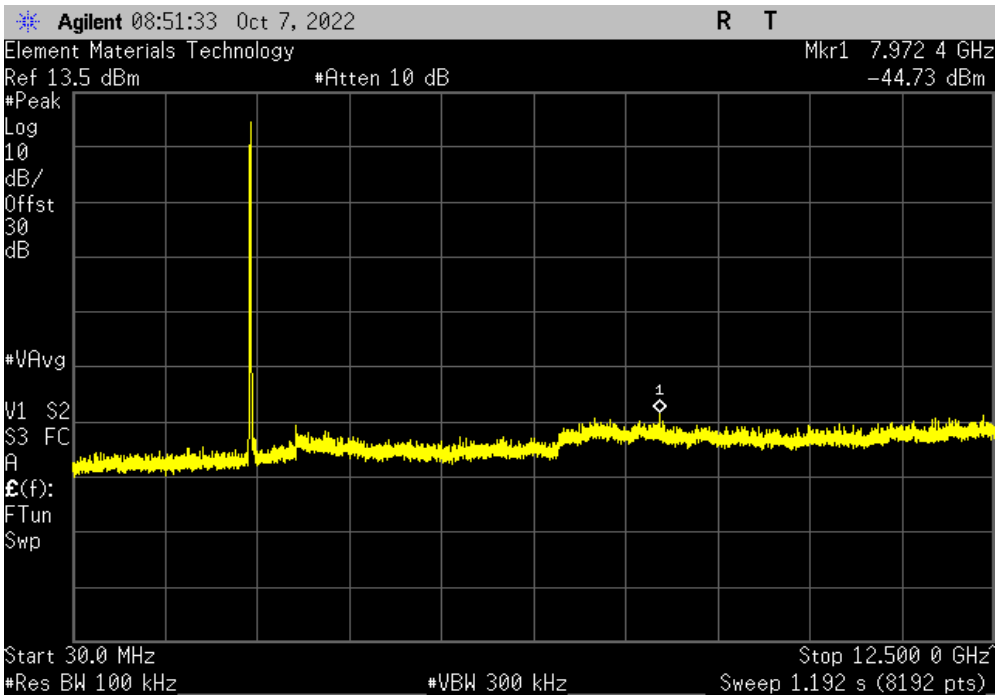


Chain 1, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2444.51	N/A	N/A	N/A

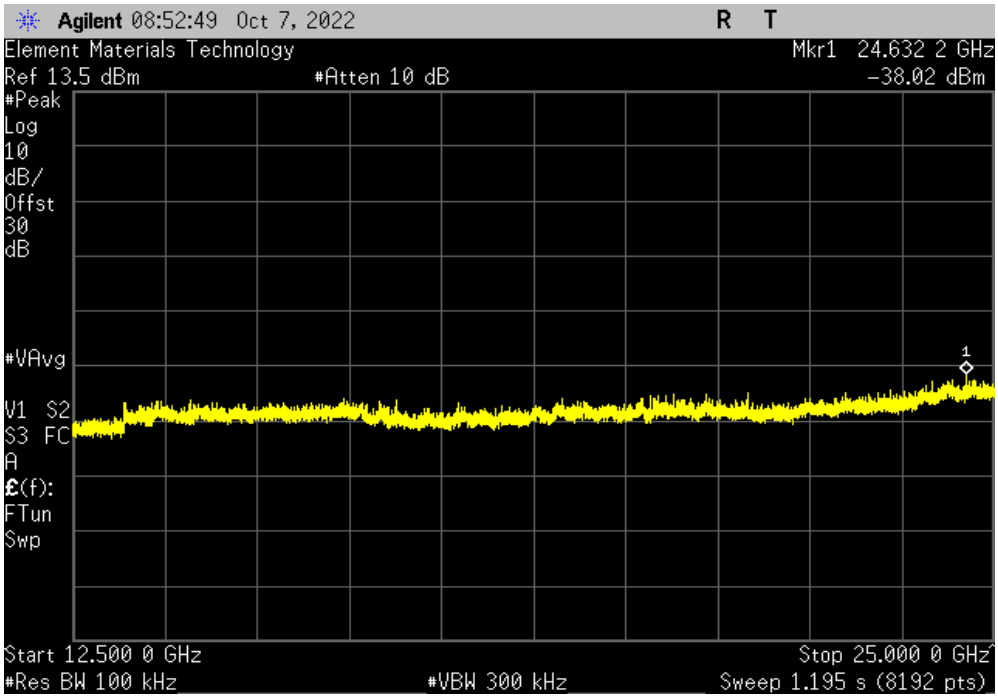


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7972.4	-53.98	-30	Pass

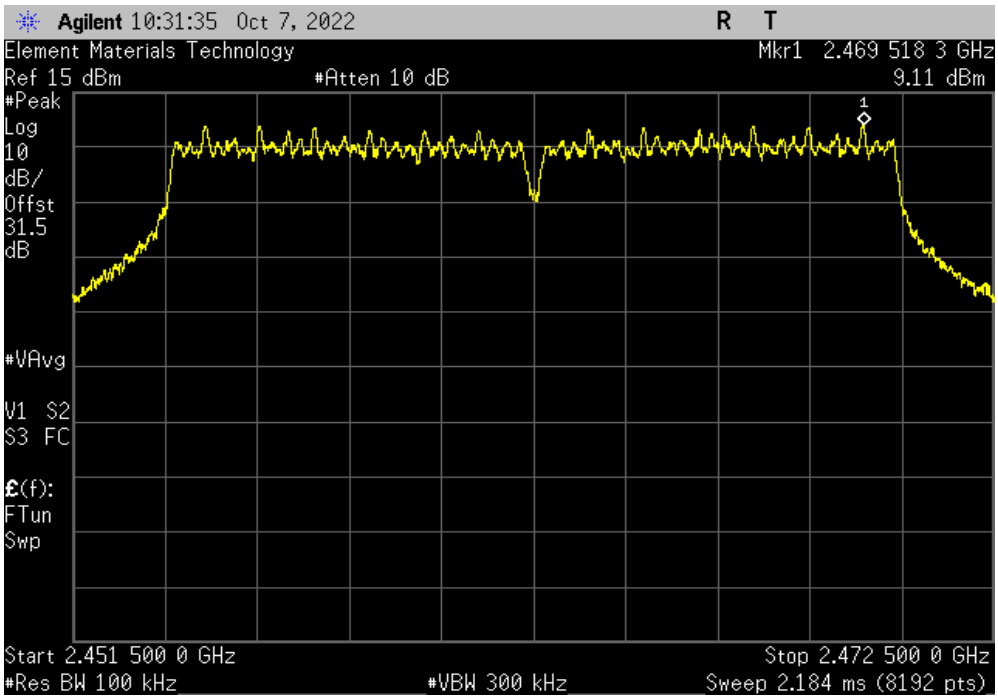


Chain 1, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24632.2	-47.27	-30	Pass

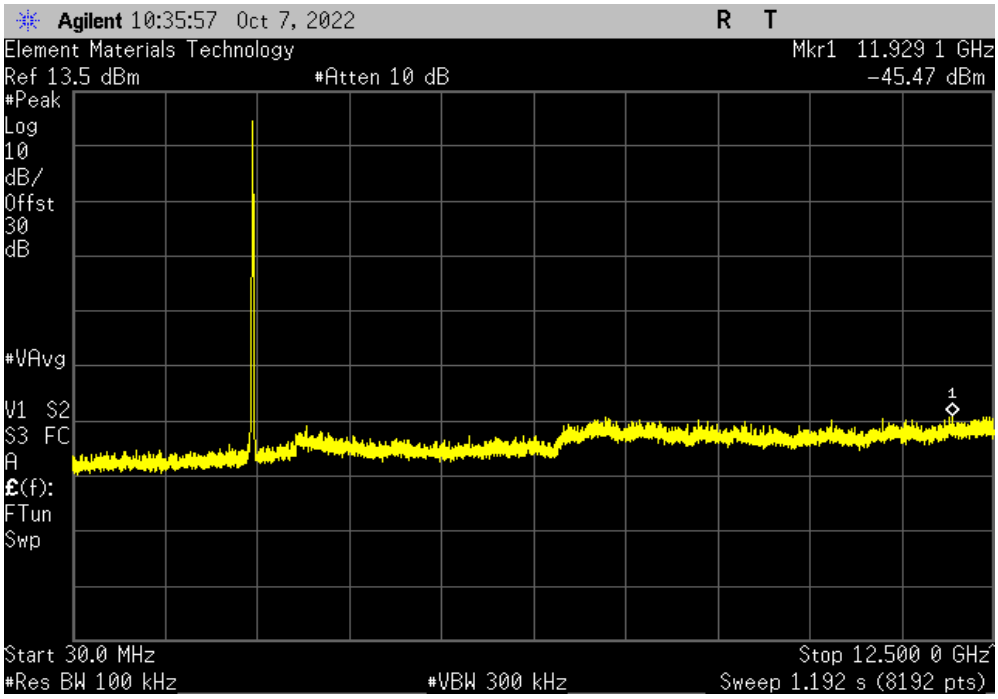


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2469.52	N/A	N/A	N/A

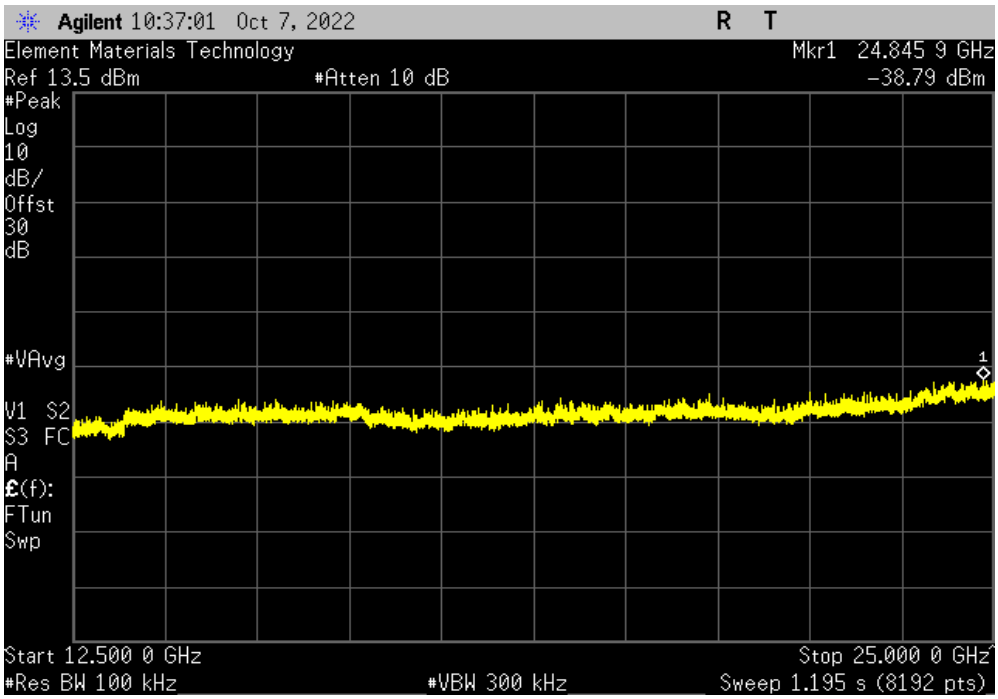


Chain 1, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11929.1	-54.59	-30	Pass

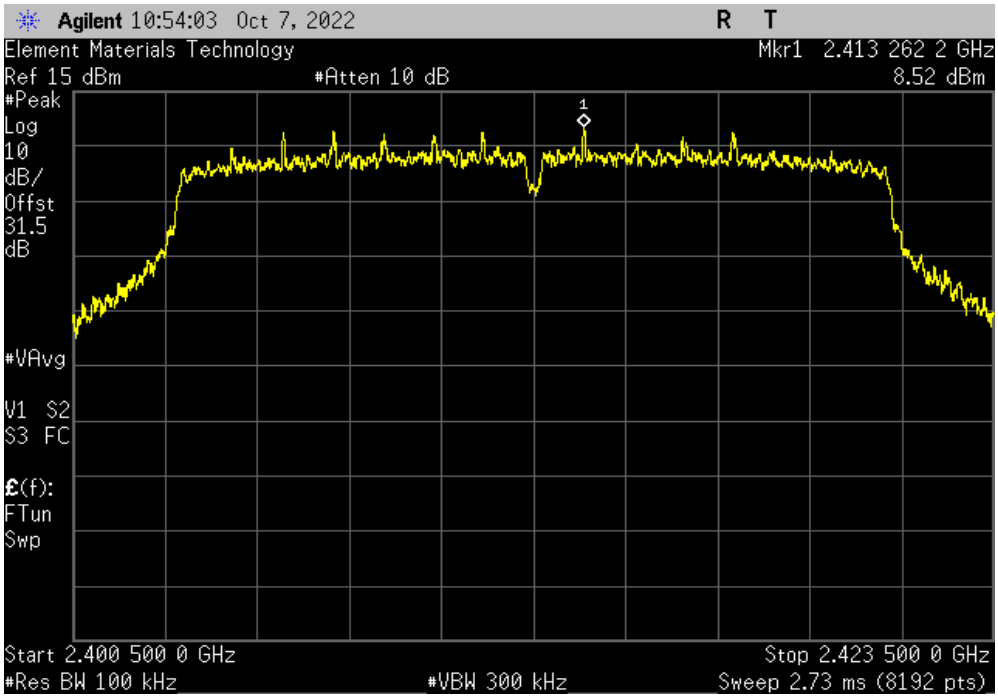


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24845.9	-47.92	-30	Pass

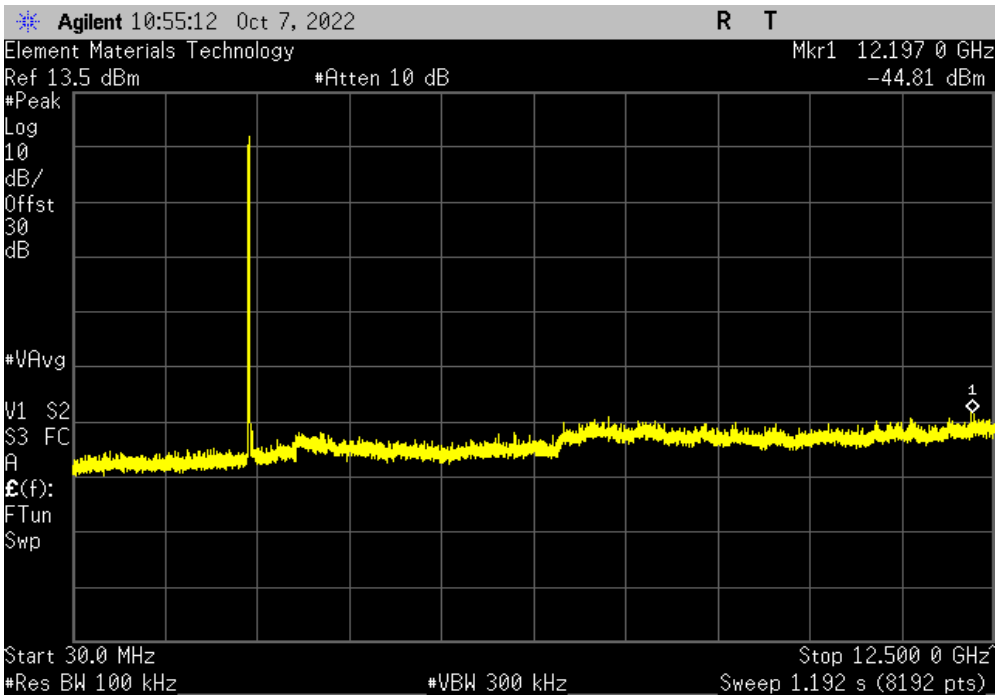


Chain 1, HT20, MCS0, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2413.26	N/A	N/A	N/A

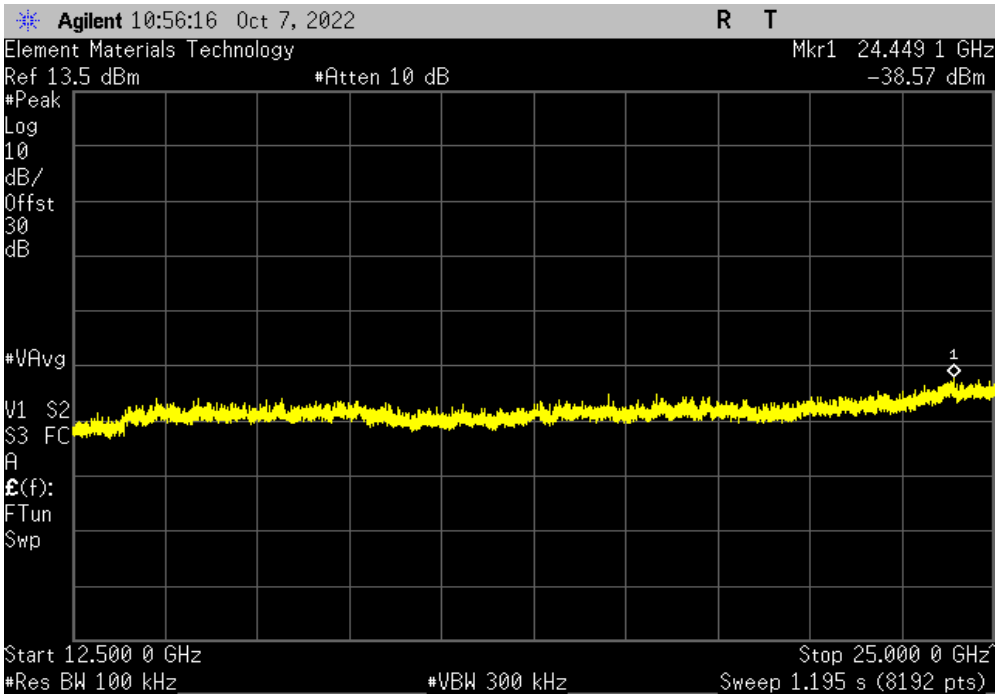


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12197	-53.34	-30	Pass

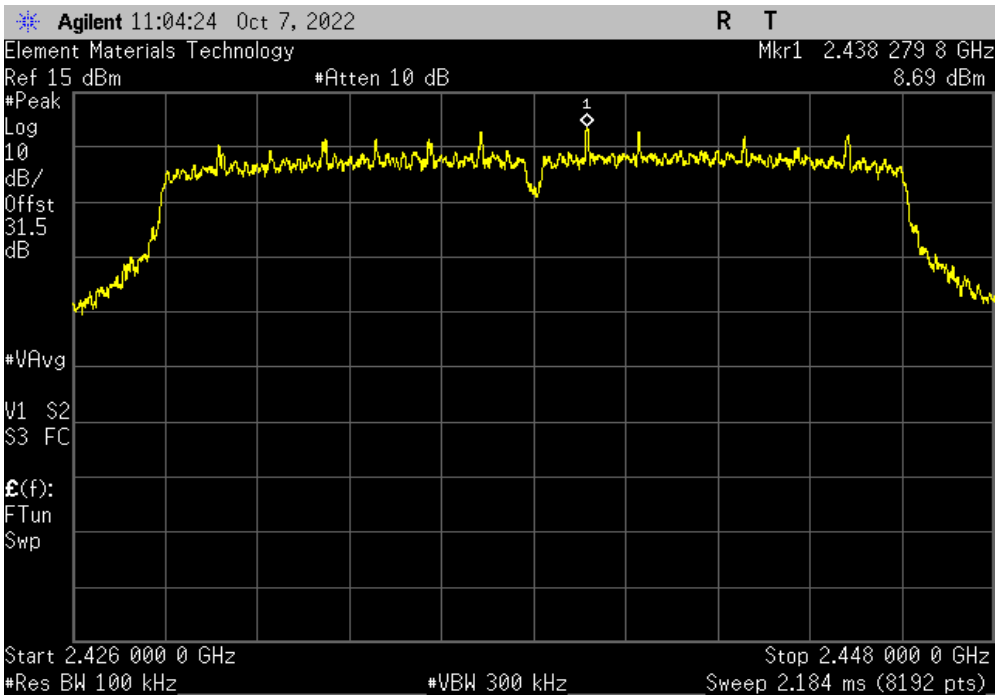


Chain 1, HT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24449.1	-47.09	-30	Pass

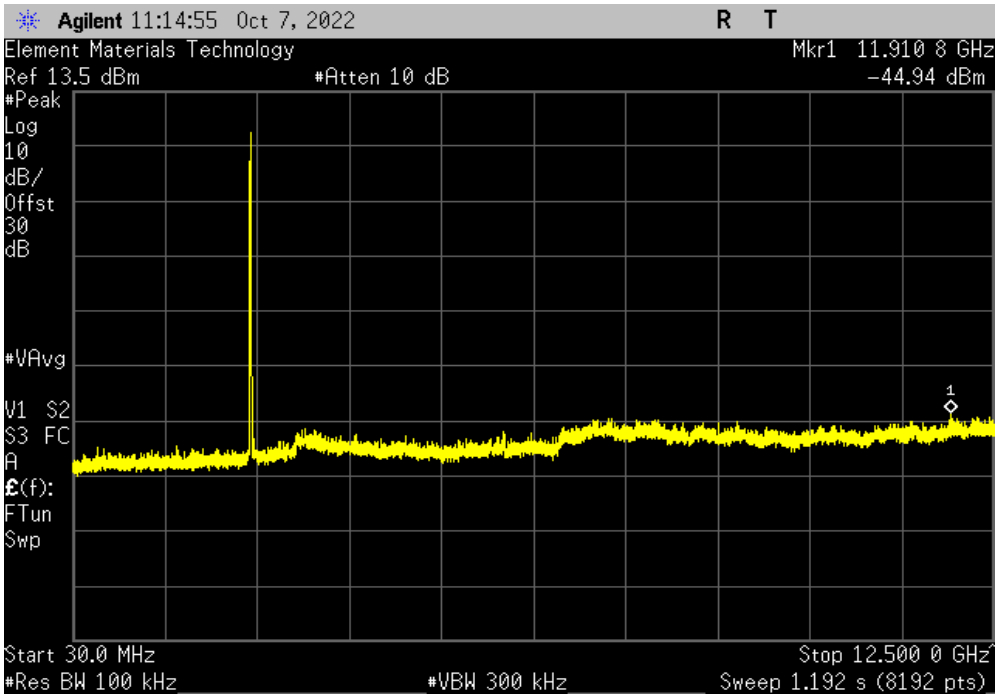


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

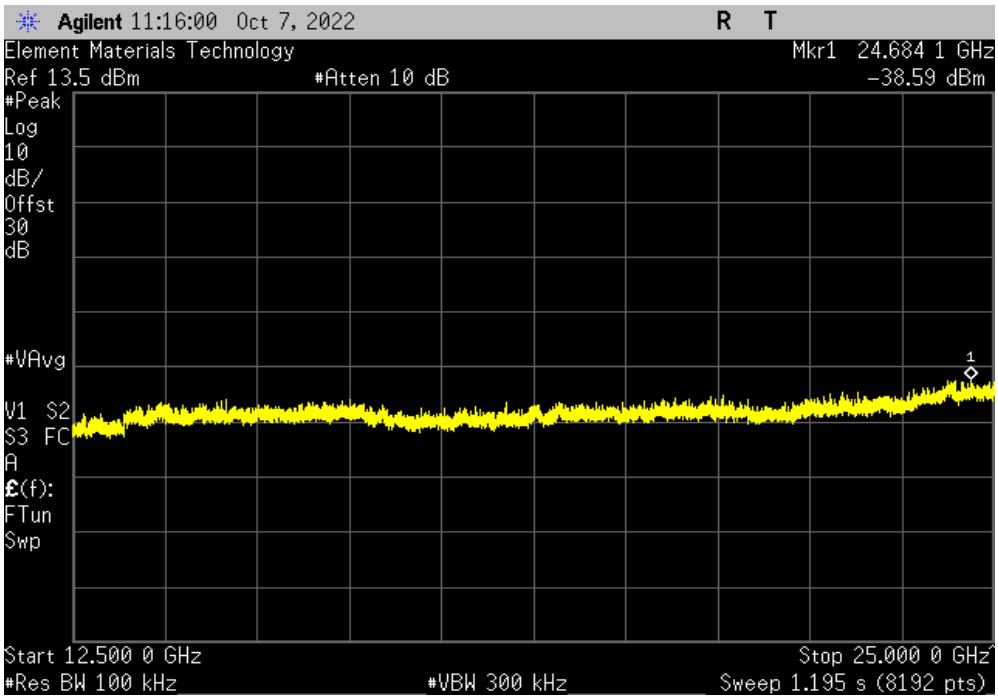
Chain 1, HT20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2438.28	N/A	N/A	N/A



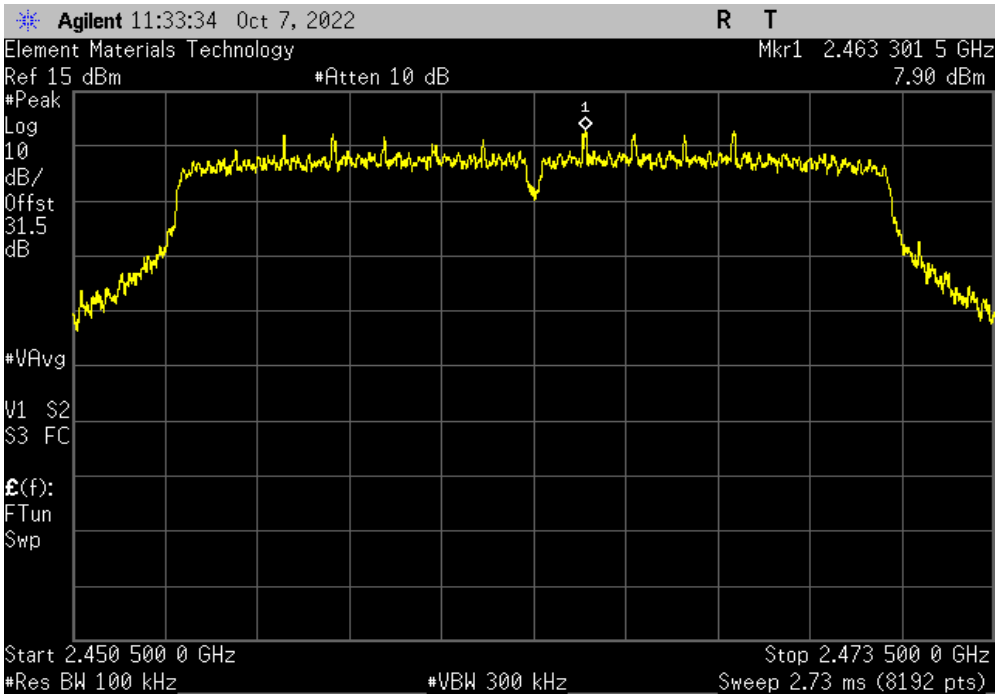
Chain 1, HT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11910.8	-53.63	-30	Pass



Chain 1, HT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24684.1	-47.28	-30	Pass

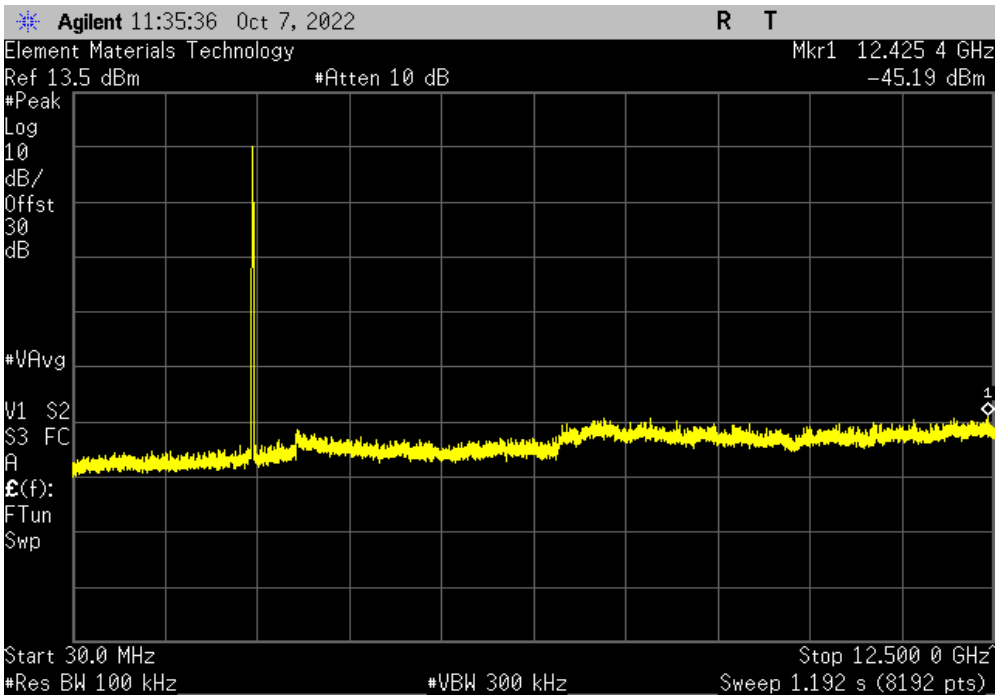


Chain 1, HT20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2463.3	N/A	N/A	N/A

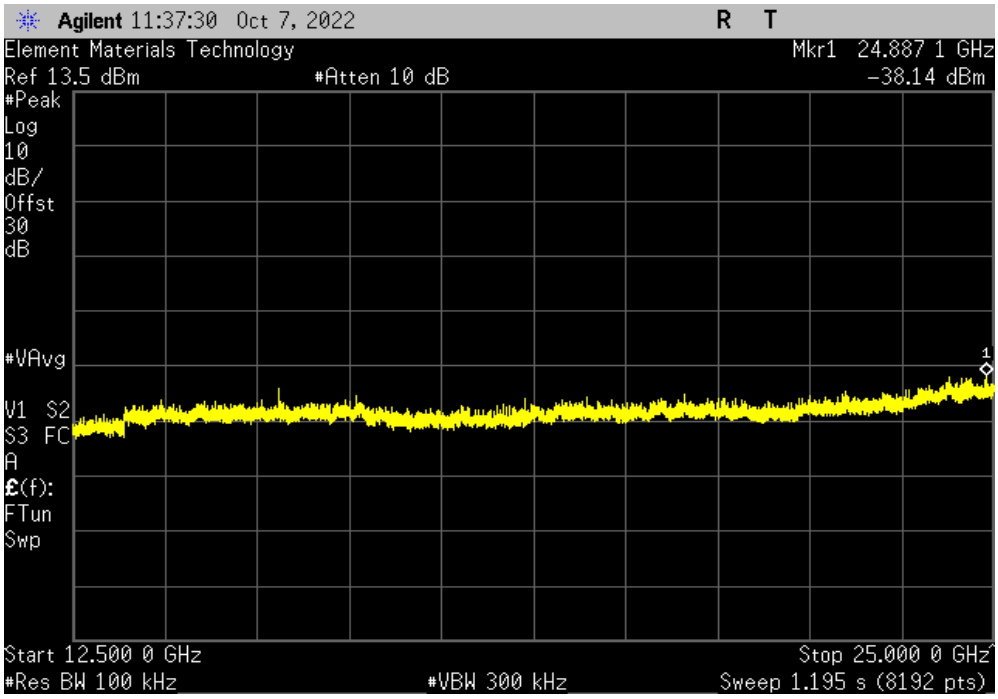


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12425.4	-53.09	-30	Pass

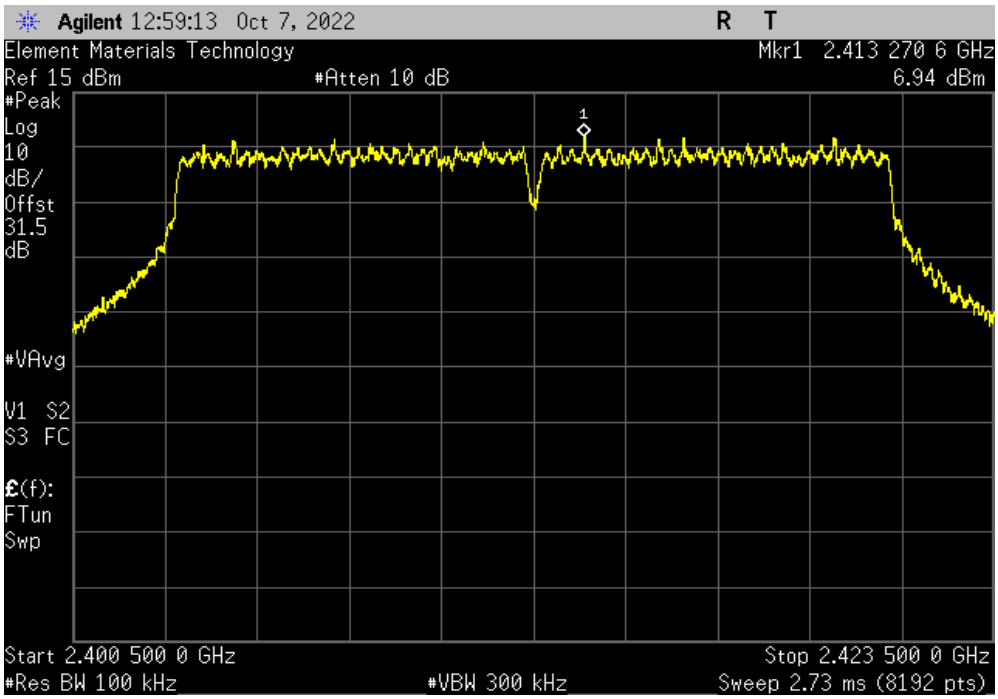


Chain 1, HT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24887.1	-46.04	-30	Pass

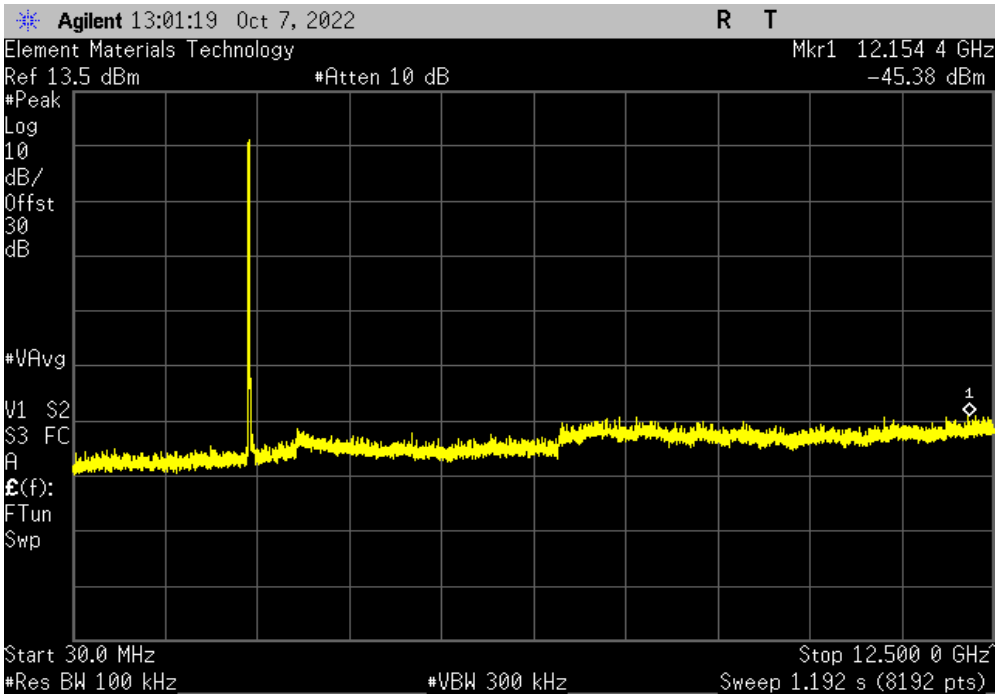


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS7, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2413.27	N/A	N/A	N/A

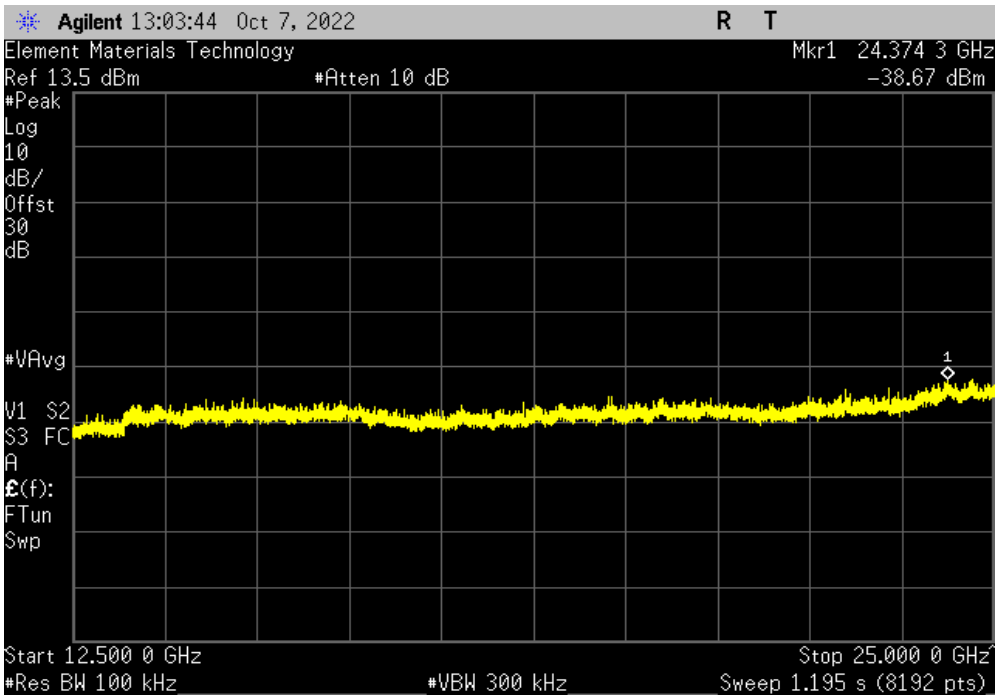


Chain 1, HT20, MCS7, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12154.4	-52.32	-30	Pass

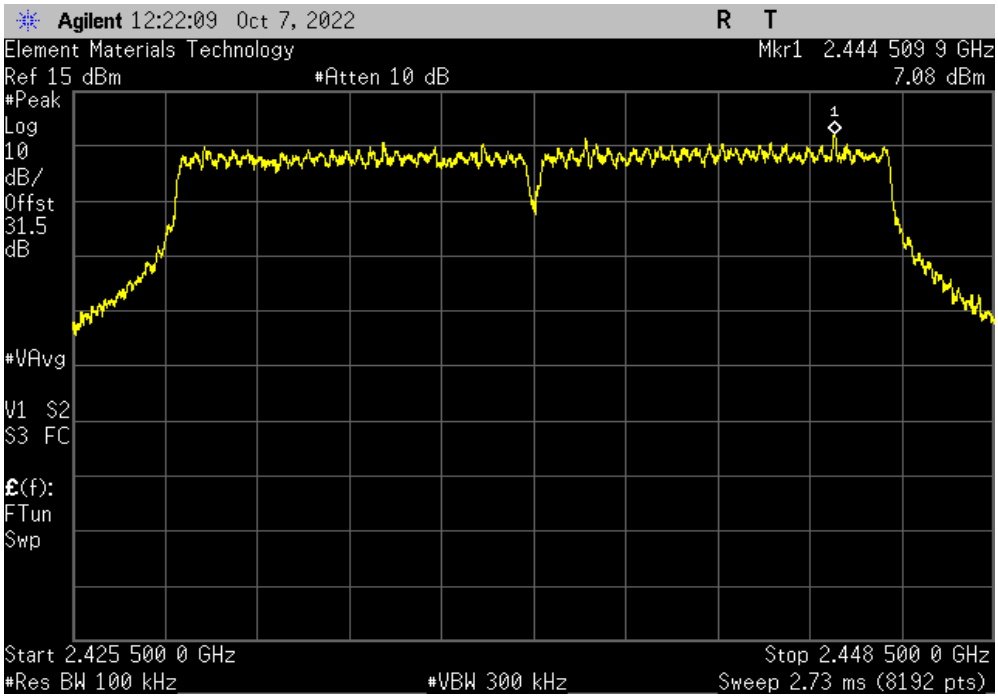


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS7, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24374.3	-45.61	-30	Pass

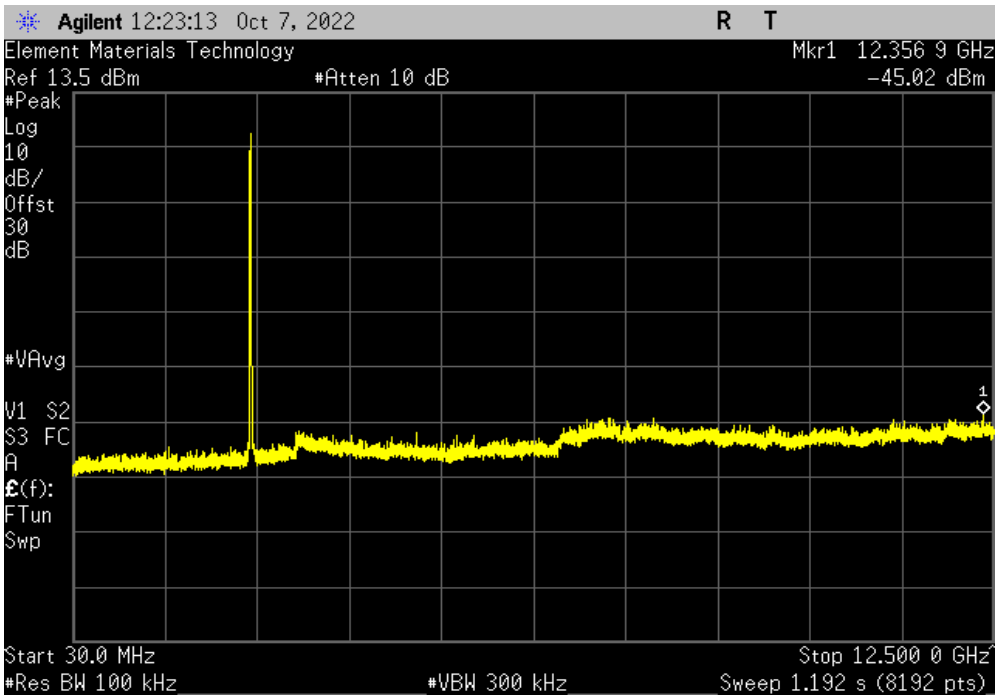


Chain 1, HT20, MCS7, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2444.51	N/A	N/A	N/A

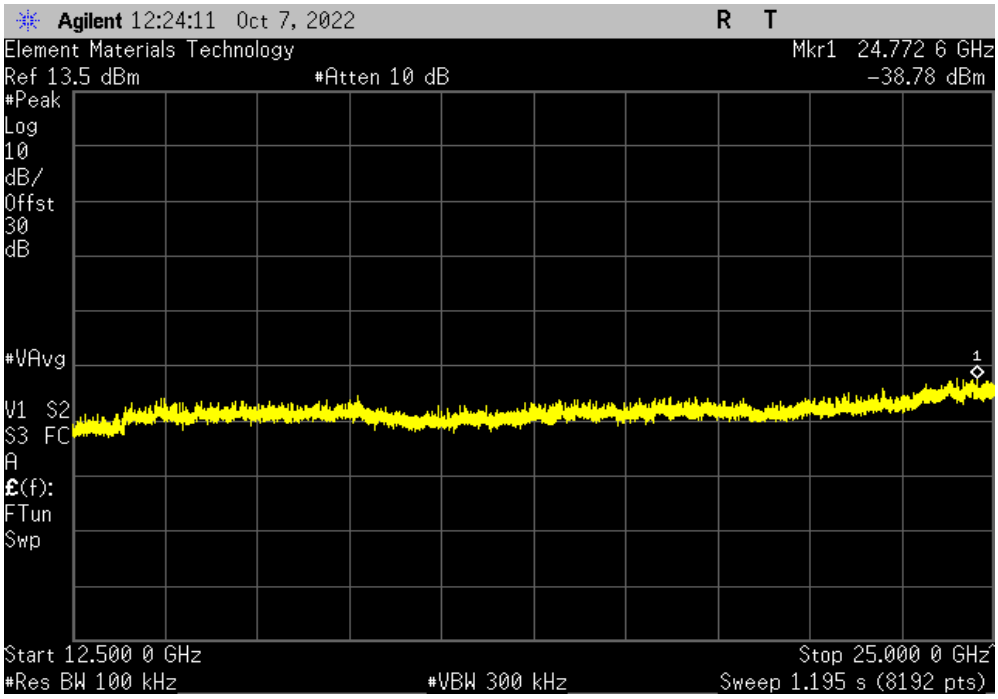


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12356.9	-52.1	-30	Pass

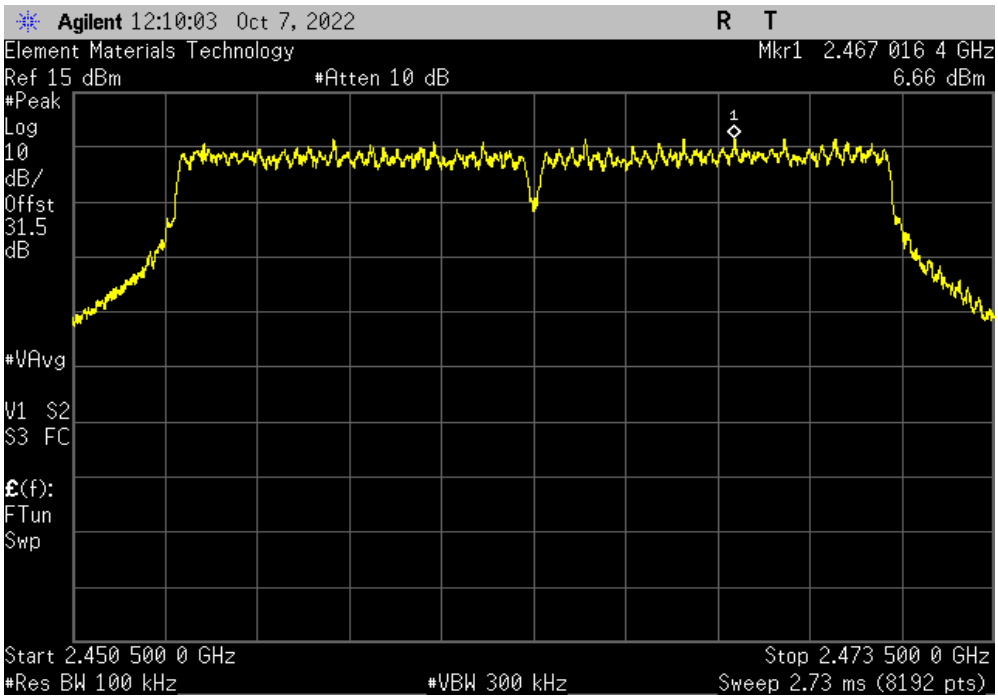


Chain 1, HT20, MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24772.6	-45.86	-30	Pass

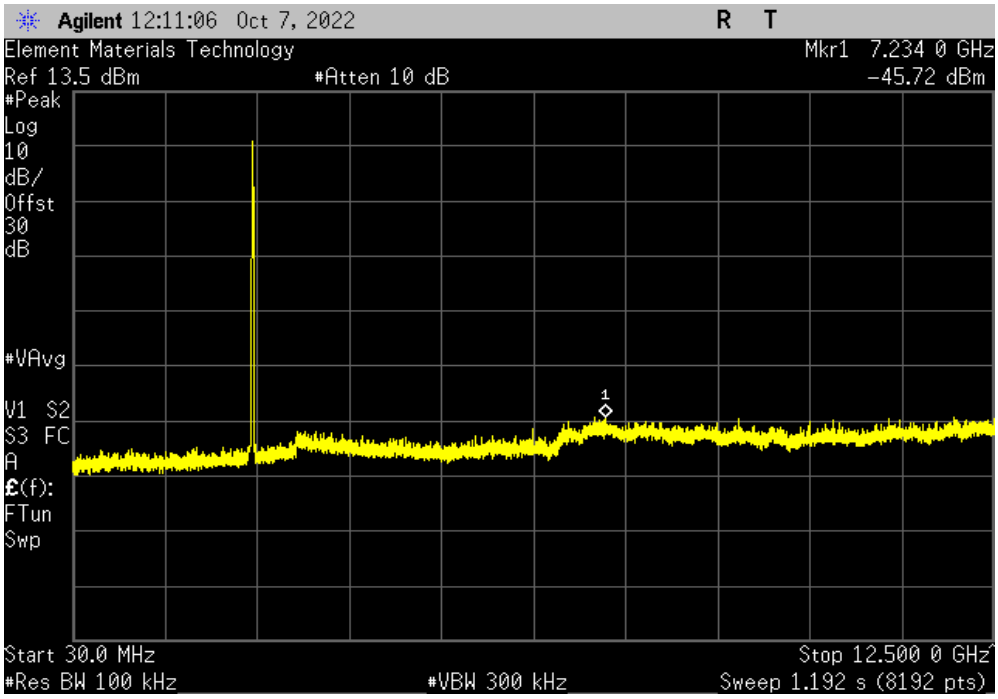


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS7, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2467.02	N/A	N/A	N/A

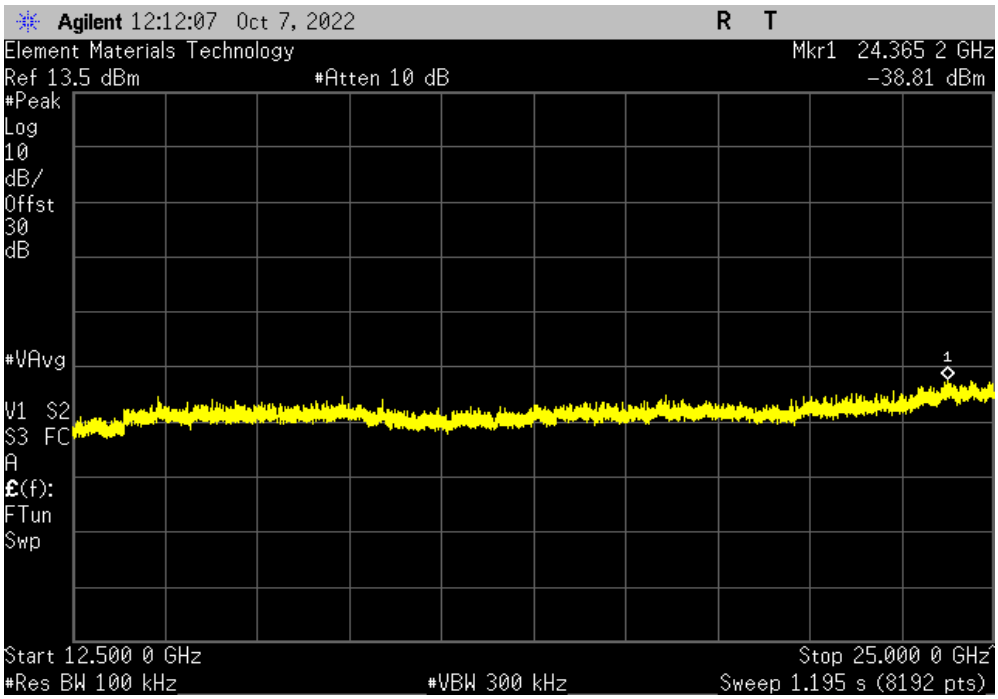


Chain 1, HT20, MCS7, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7234	-52.39	-30	Pass

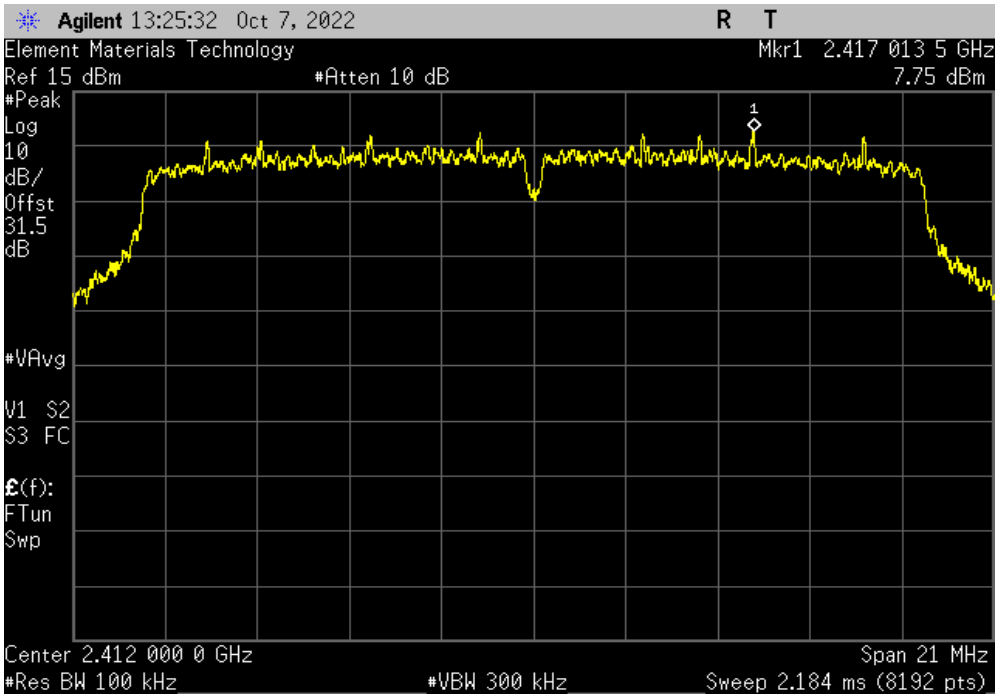


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HT20, MCS7, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24365.2	-45.48	-30	Pass

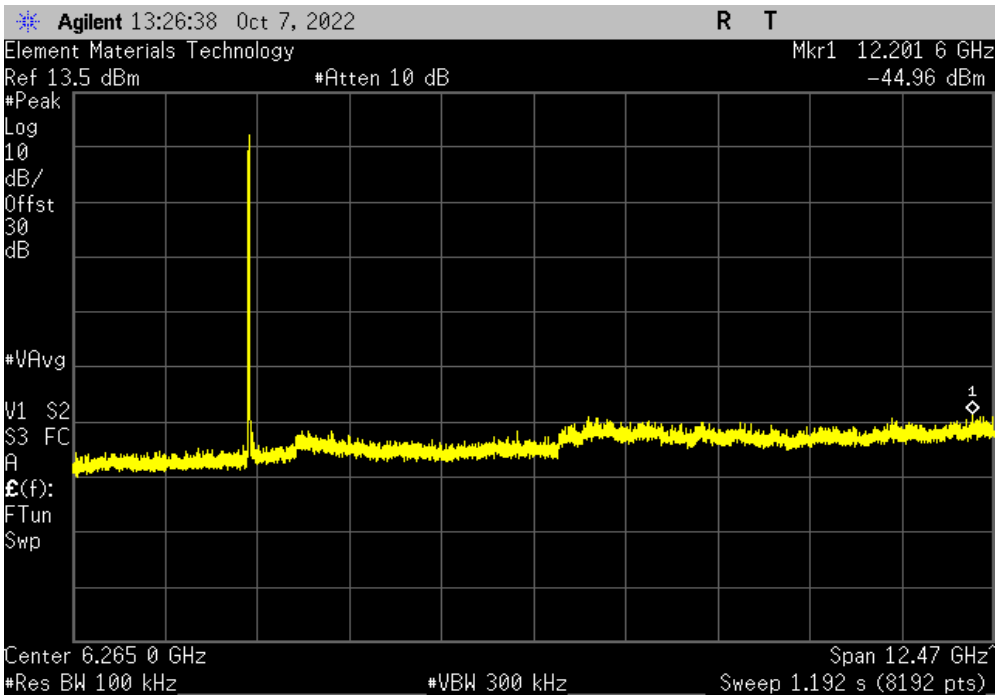


Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2417.01	N/A	N/A	N/A

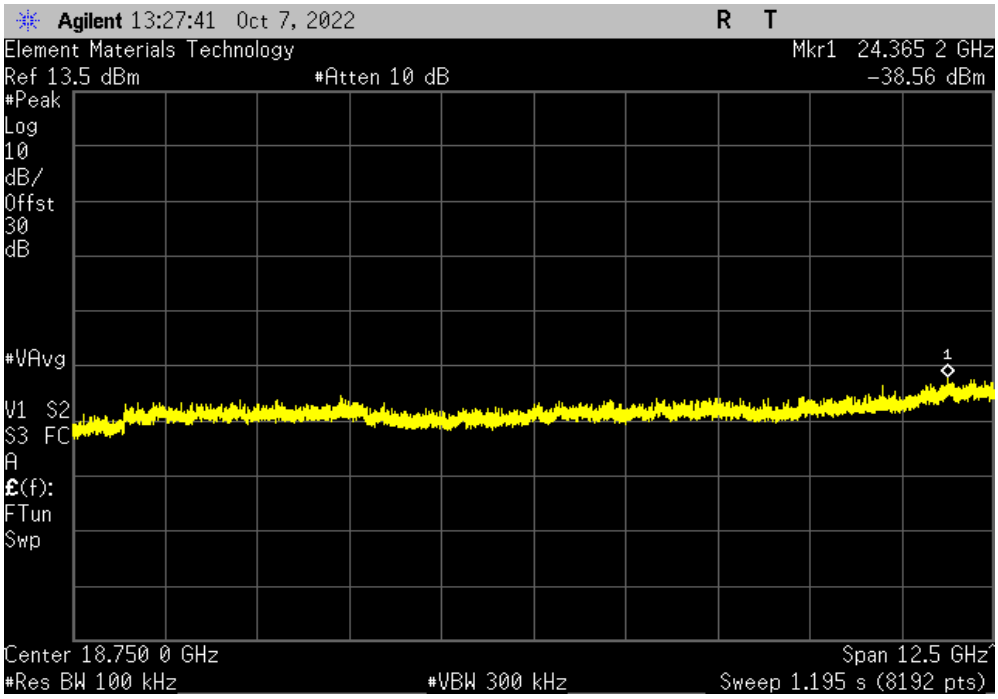


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12201.6	-52.71	-30	Pass



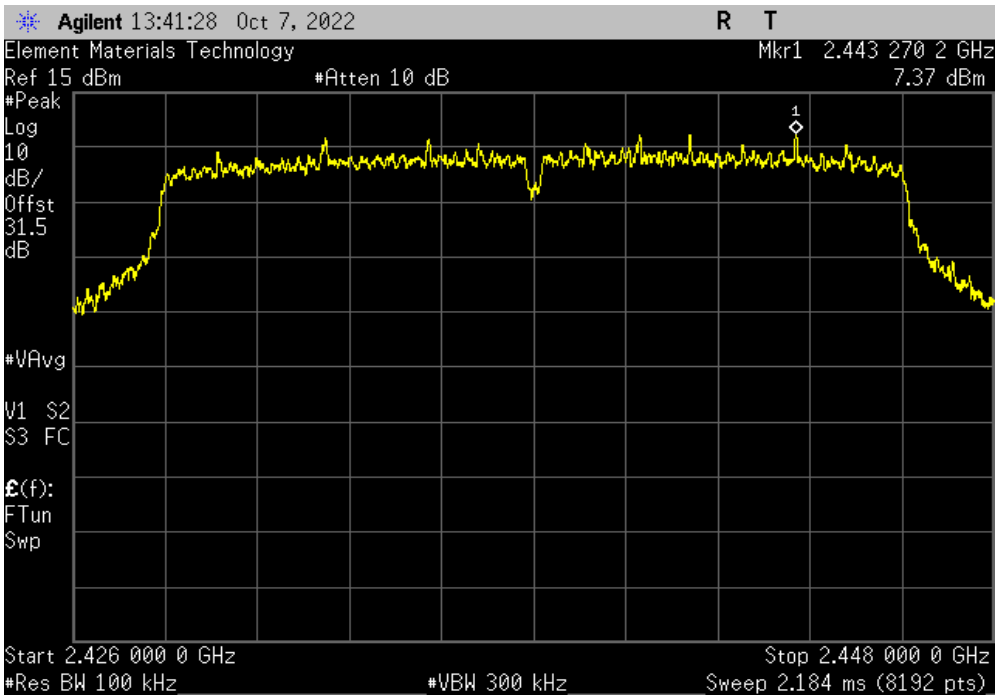
Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24365.2	-46.31	-30	Pass



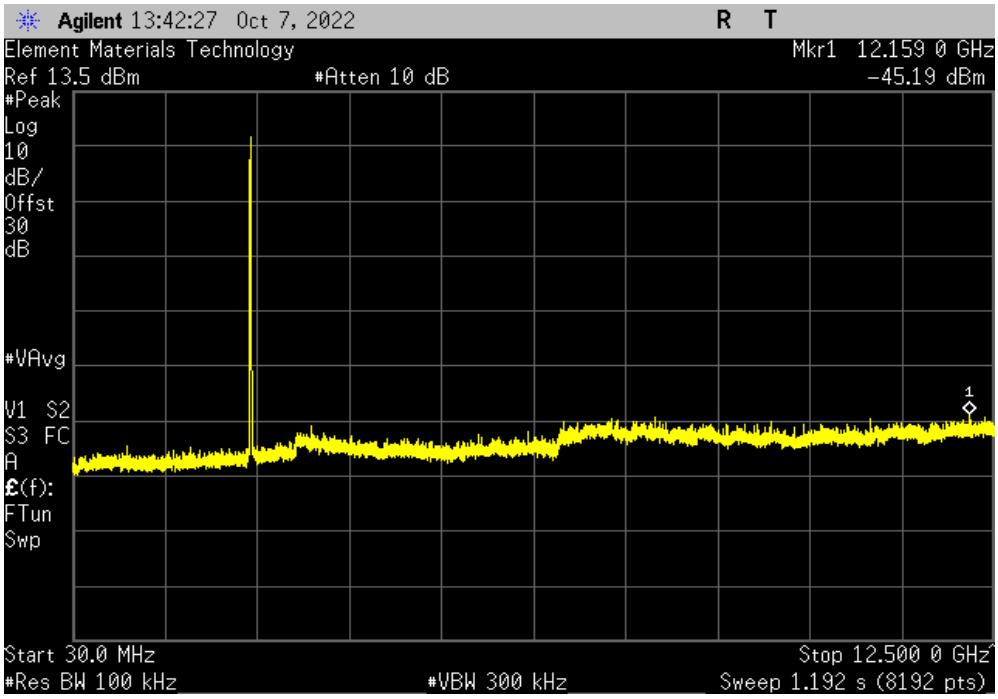
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2443.27	N/A	N/A	N/A



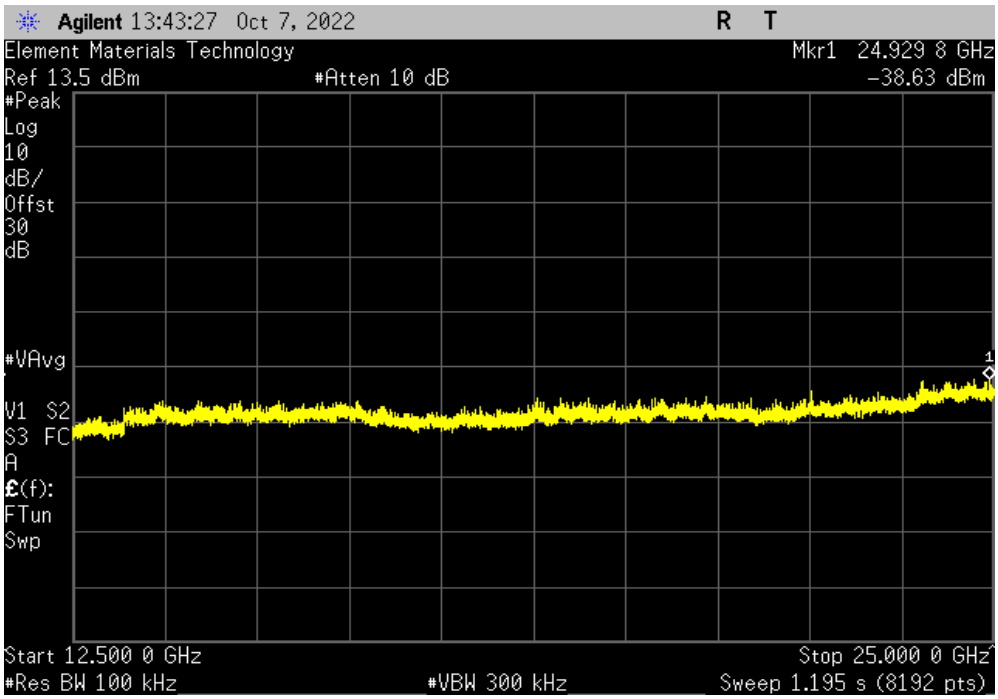
Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12159	-52.56	-30	Pass



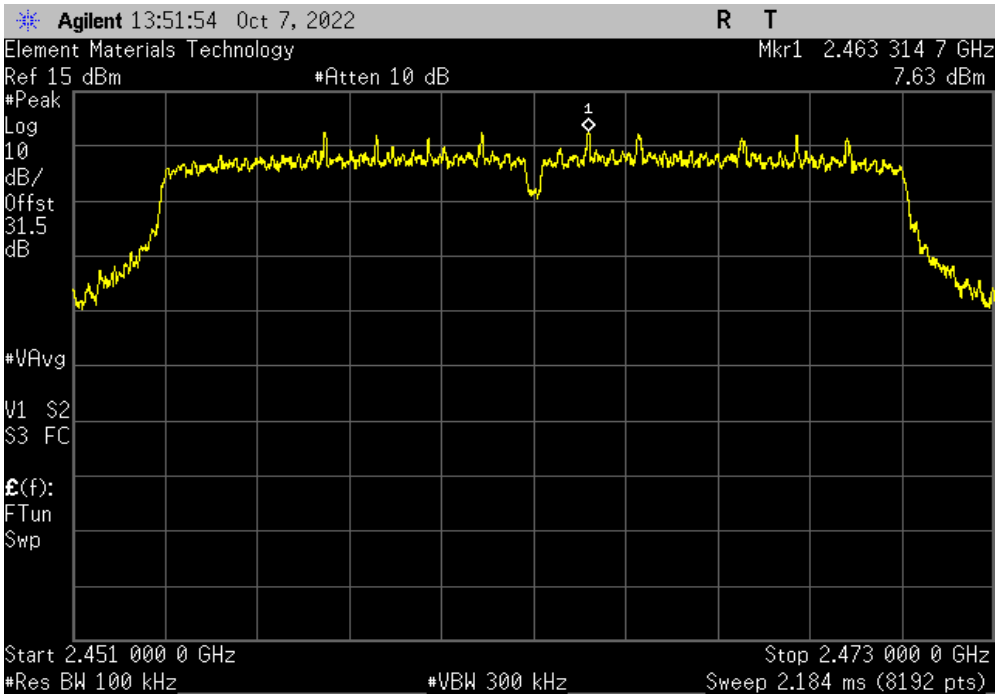
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24929.8	-46	-30	Pass

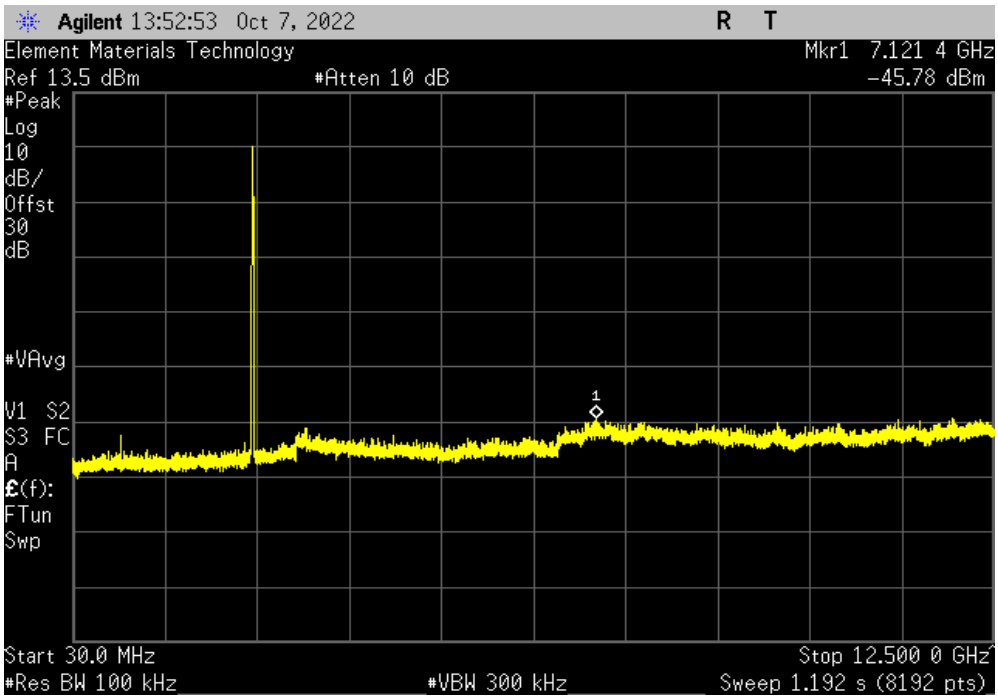


Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2463.31	N/A	N/A	N/A

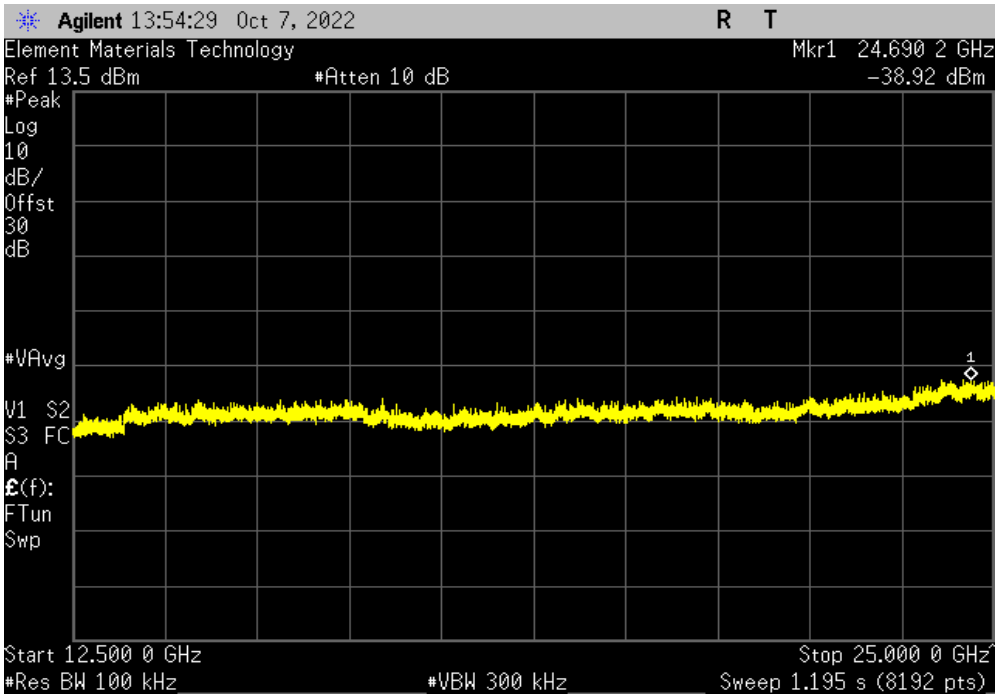


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7121.4	-53.41	-30	Pass

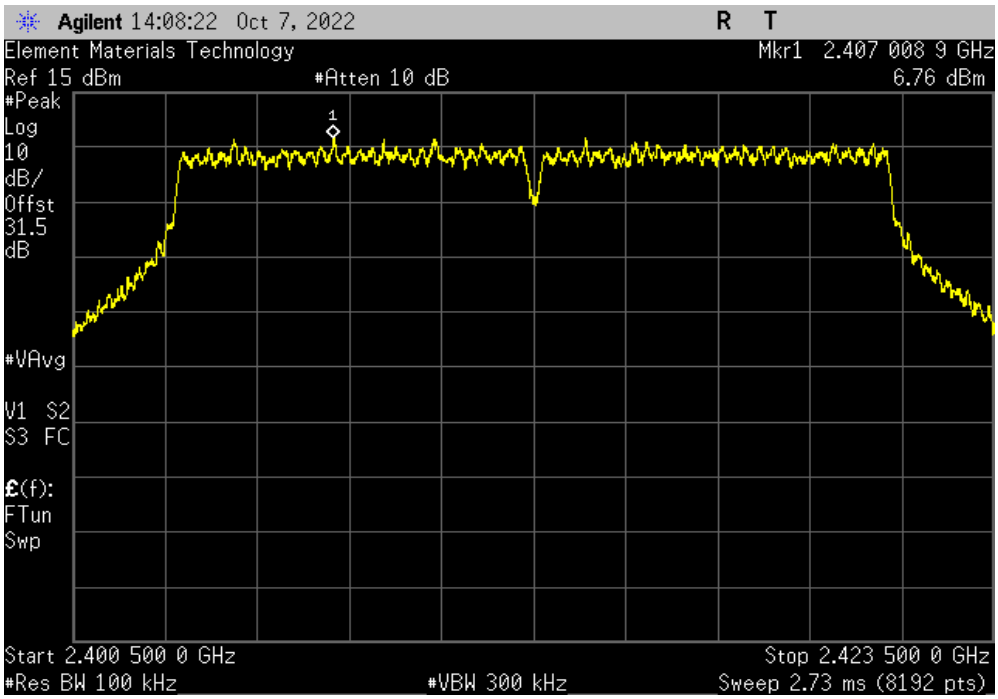


Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24690.2	-46.55	-30	Pass

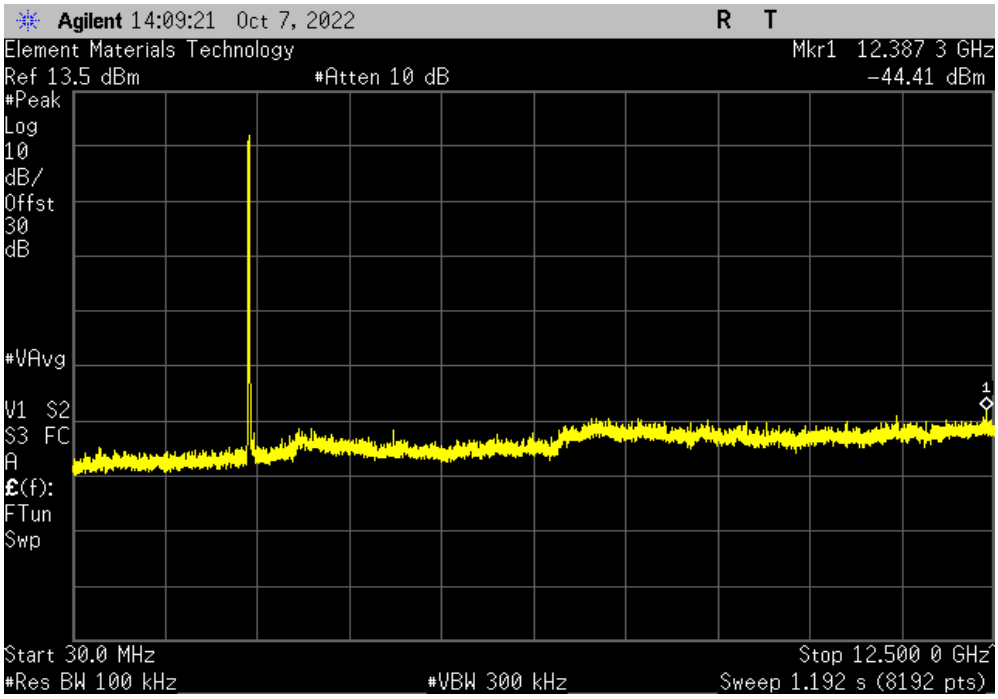


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2407.01	N/A	N/A	N/A

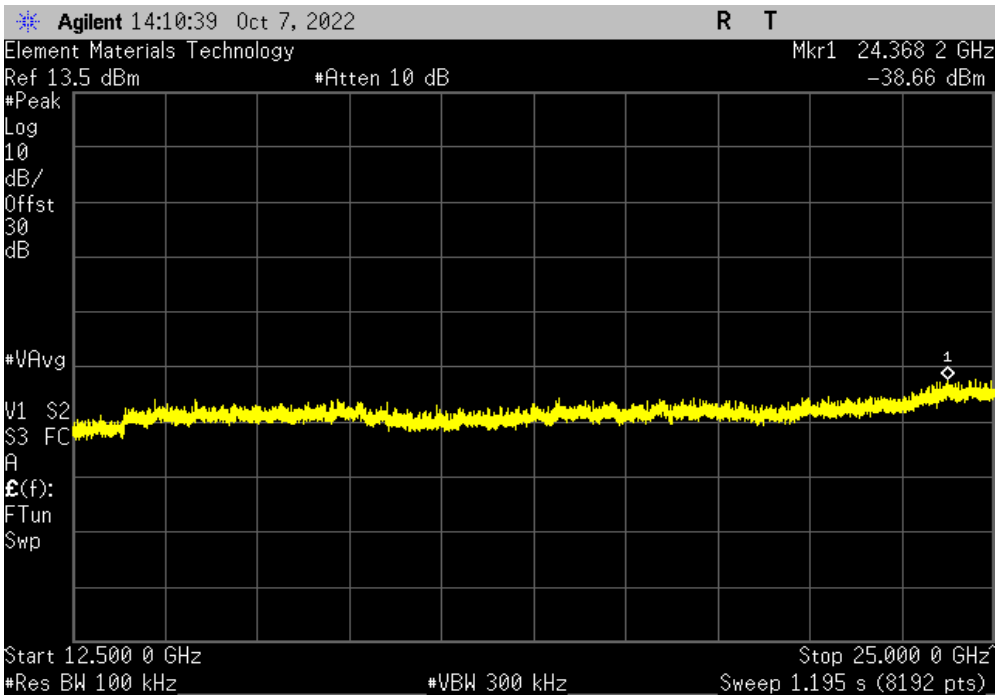


Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12387.3	-51.17	-30	Pass

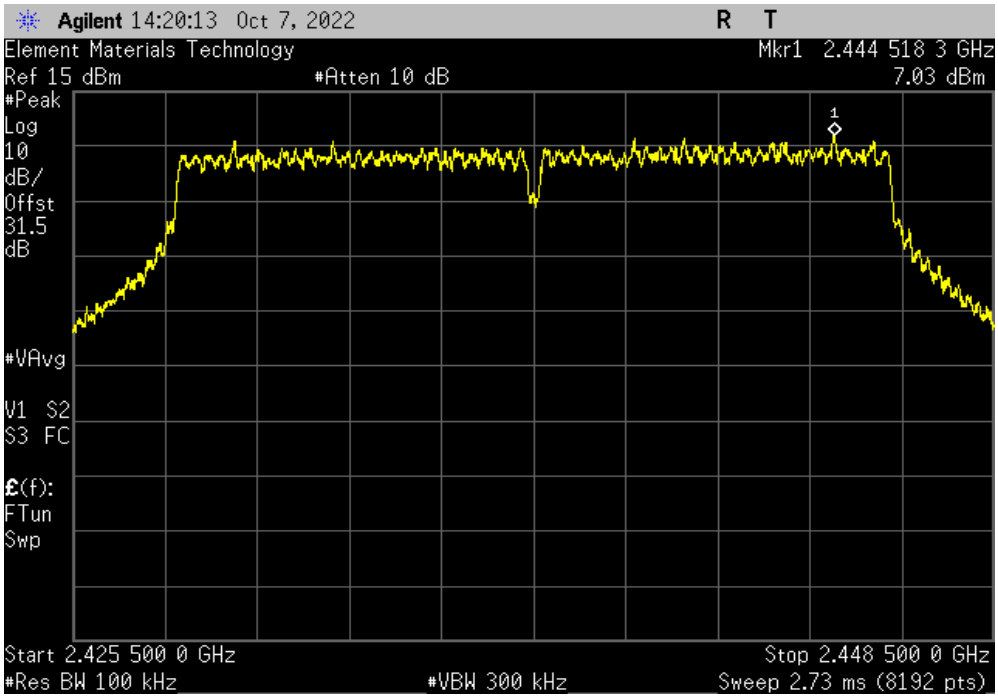


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24368.2	-45.42	-30	Pass



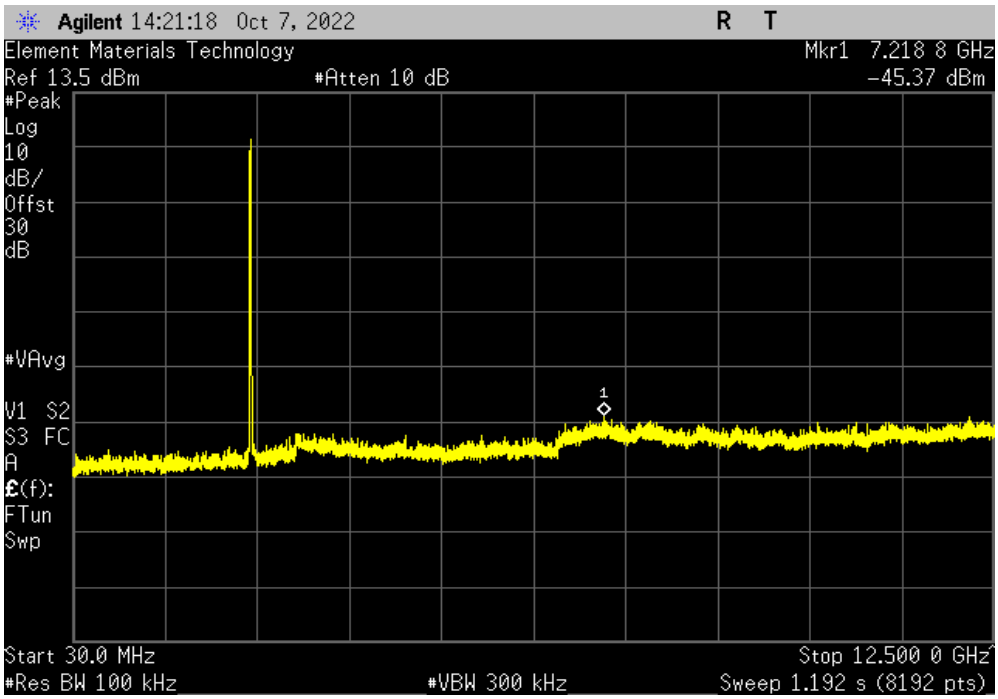
Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2444.52	N/A	N/A	N/A



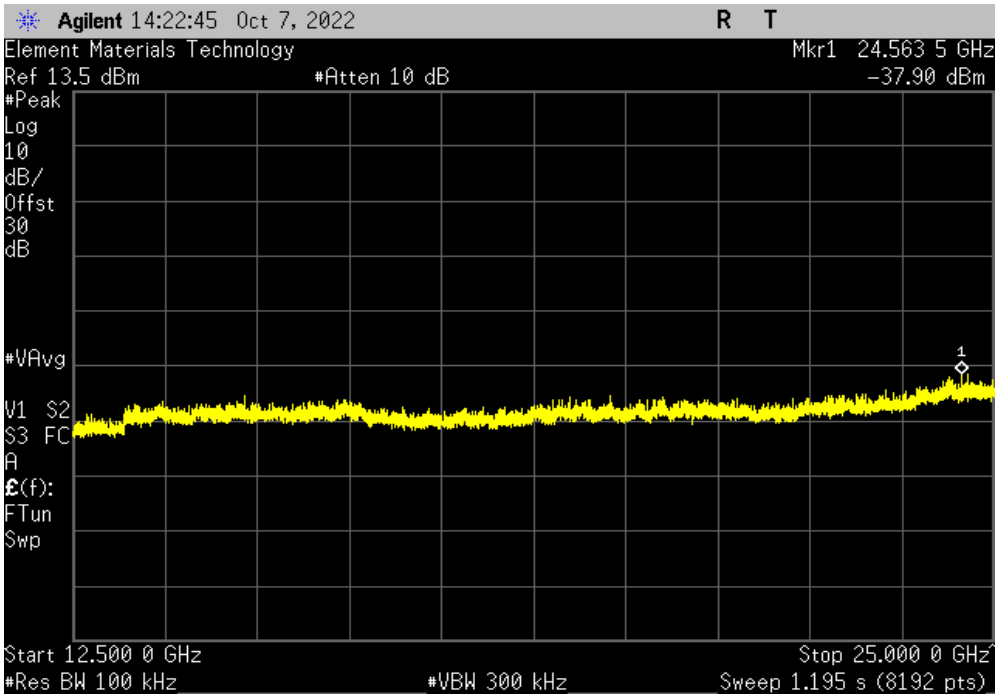
SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

TbtTx 2022.06.03.0 XMit 2022.02.07.0

Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7218.8	-52.4	-30	Pass

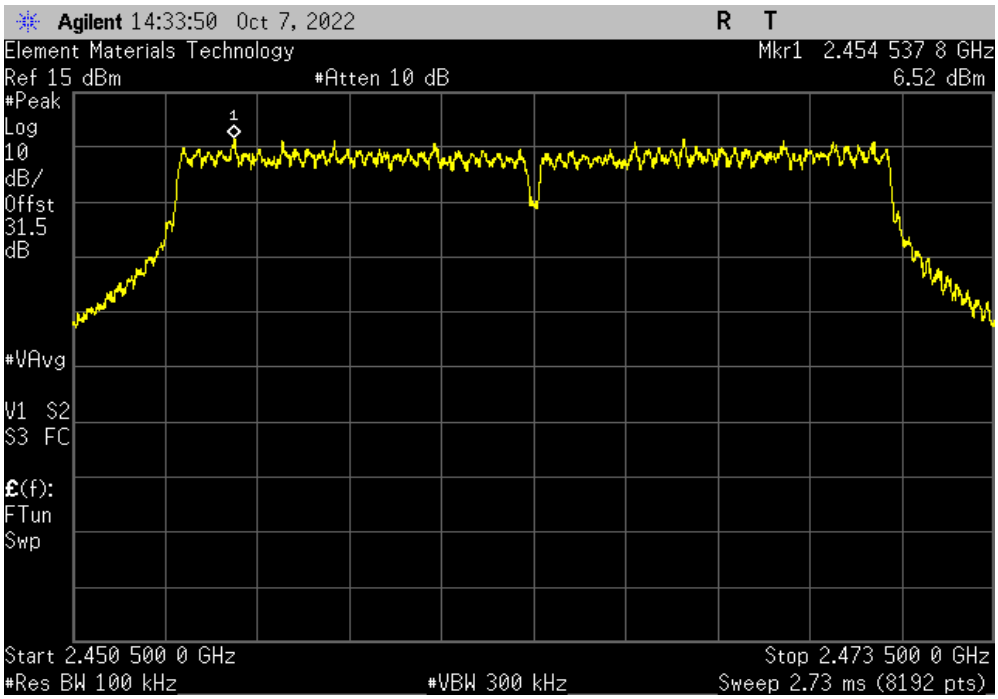


Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24563.5	-44.93	-30	Pass

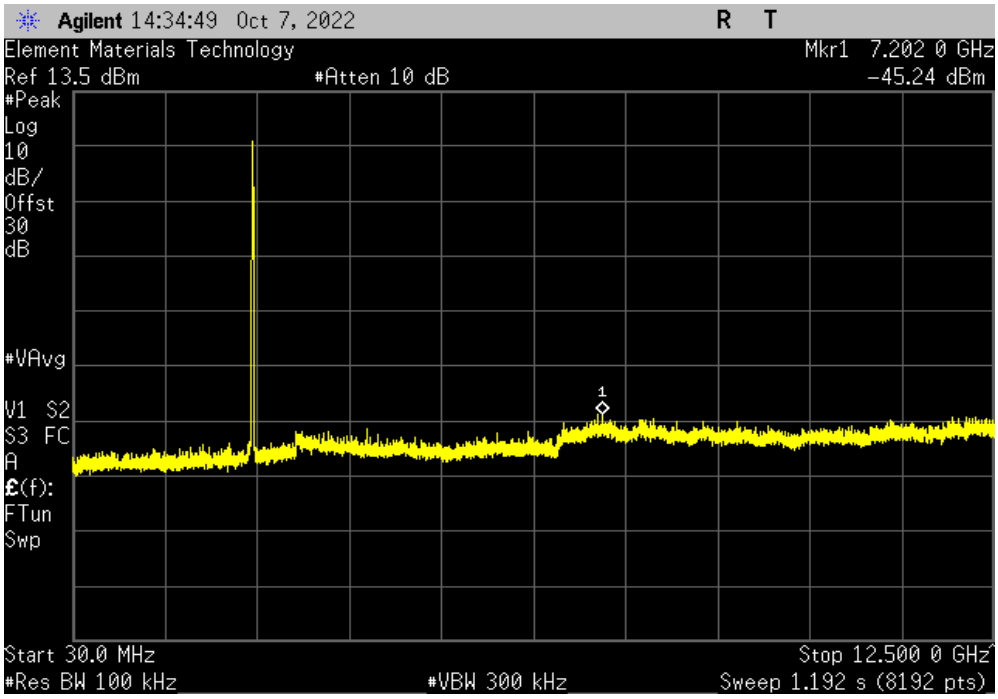


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2454.54	N/A	N/A	N/A

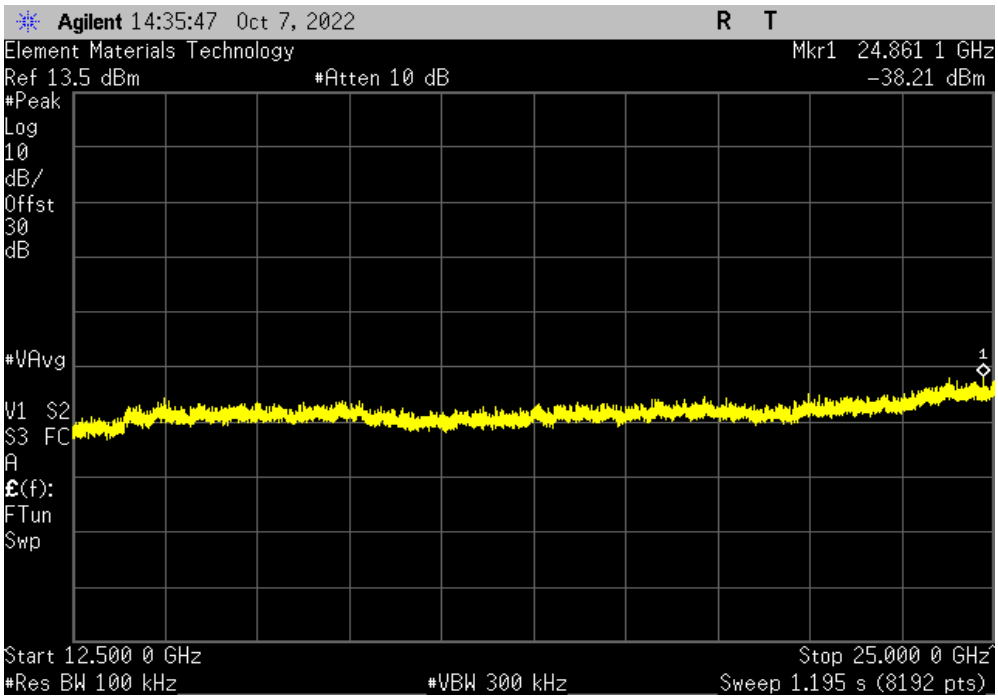


Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7202	-51.76	-30	Pass

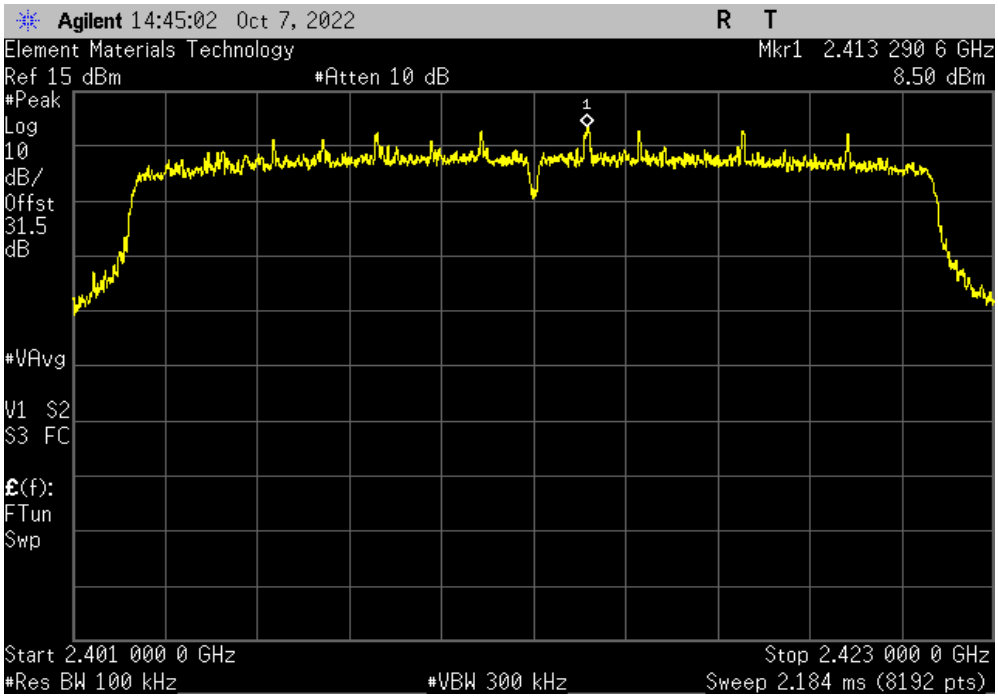


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

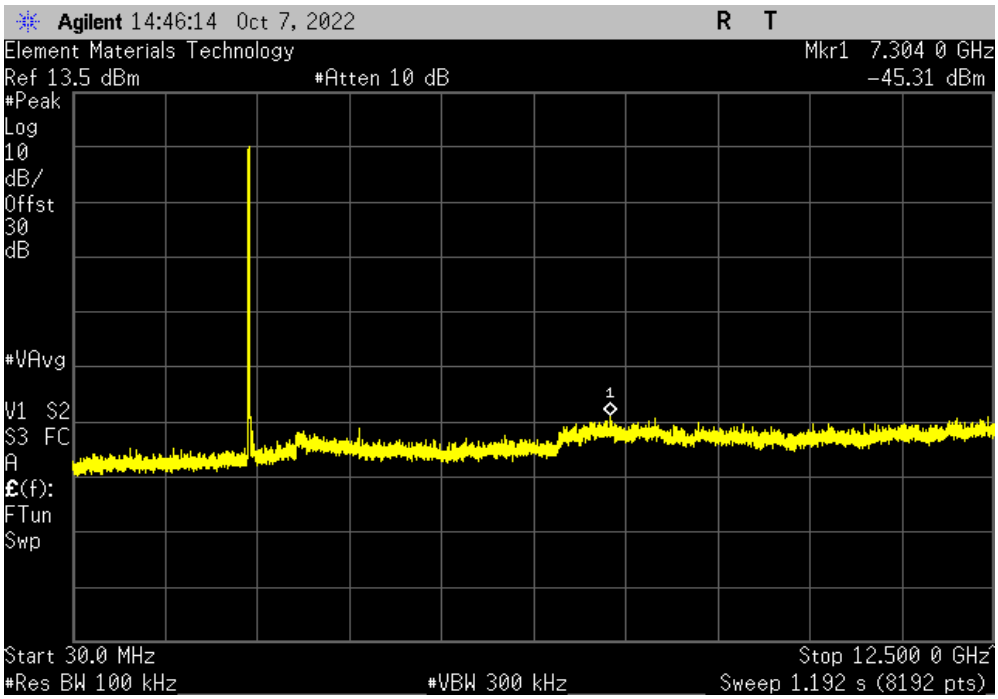
Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24861.1	-44.73	-30	Pass



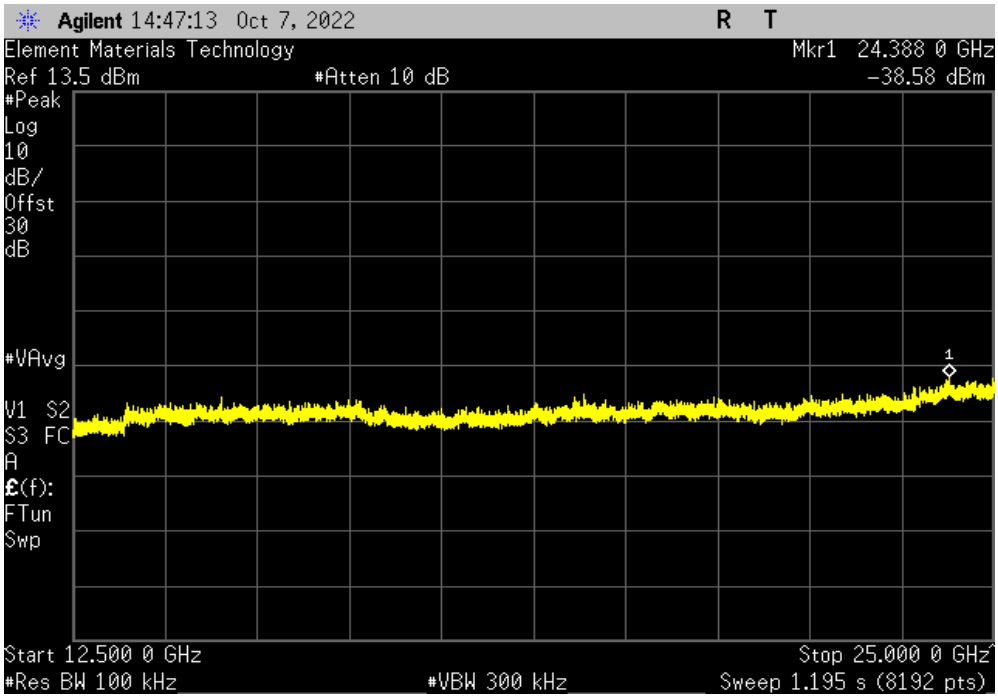
Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2413.29	N/A	N/A	N/A



Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7304	-53.81	-30	Pass

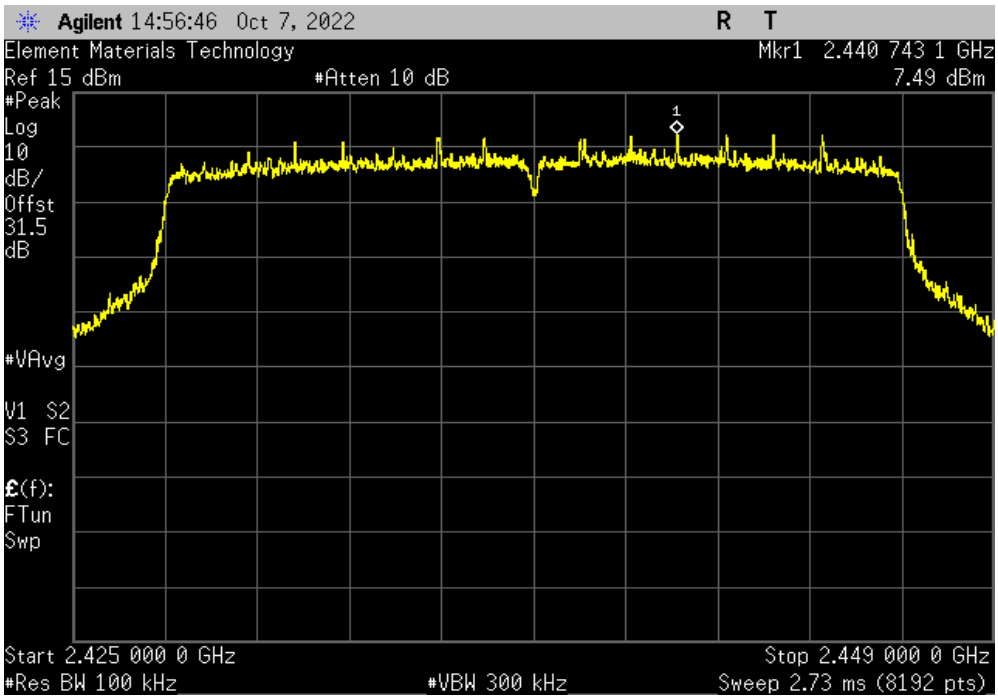


Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24388	-47.08	-30	Pass

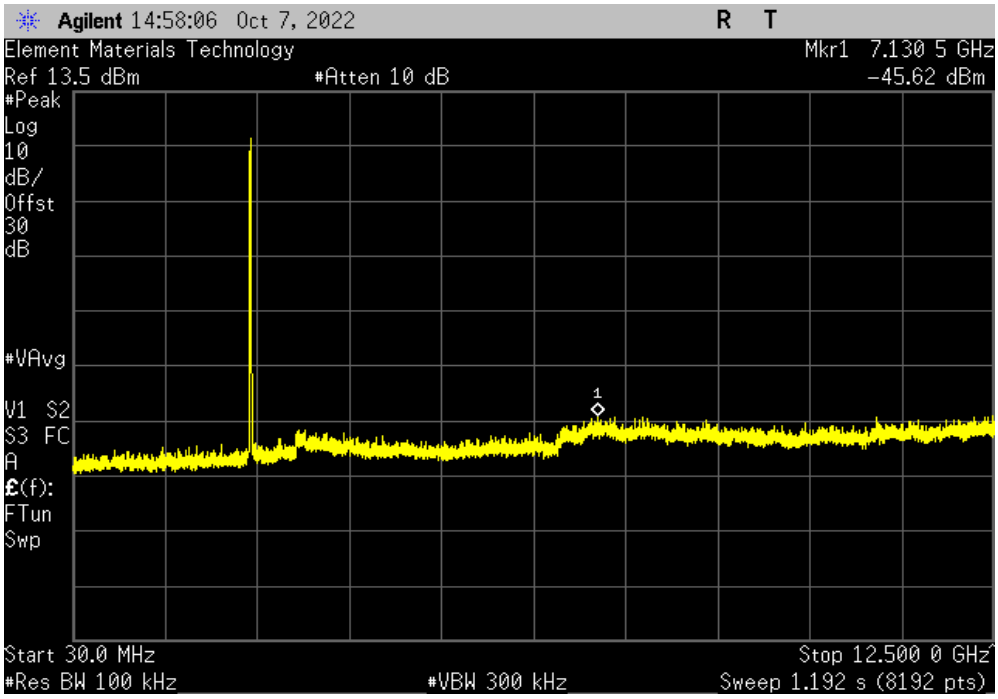


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2440.74	N/A	N/A	N/A

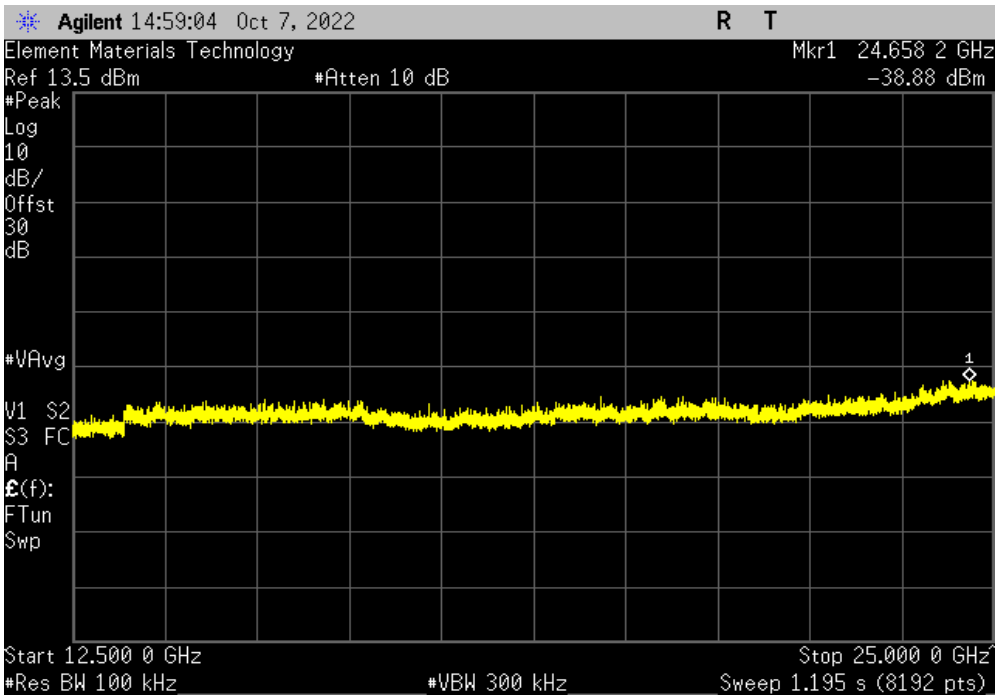


Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7130.5	-53.11	-30	Pass

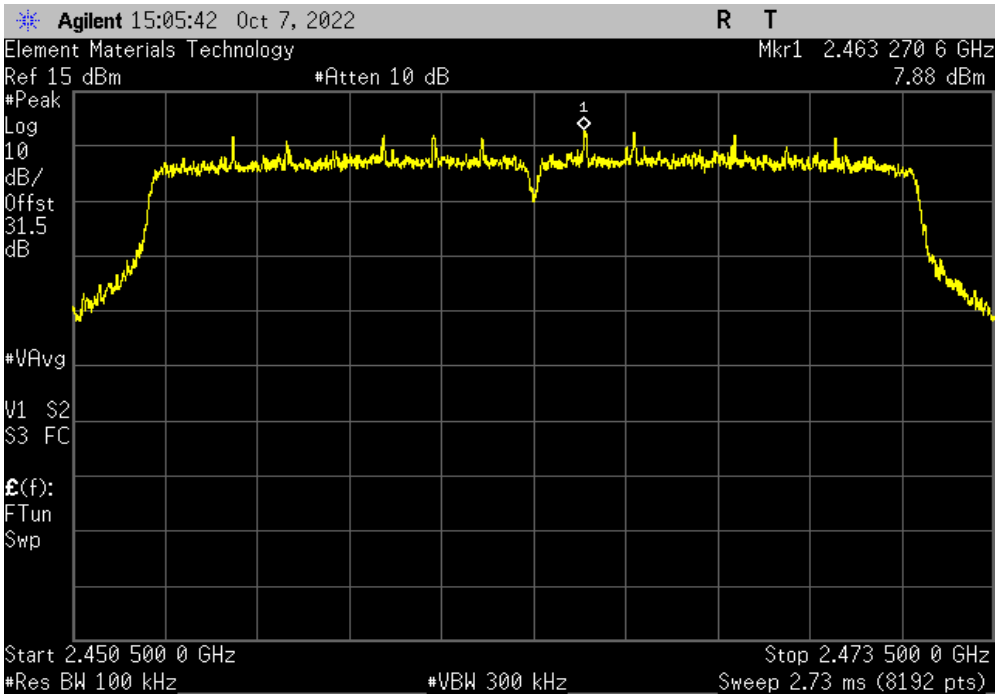


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24658.2	-46.37	-30	Pass

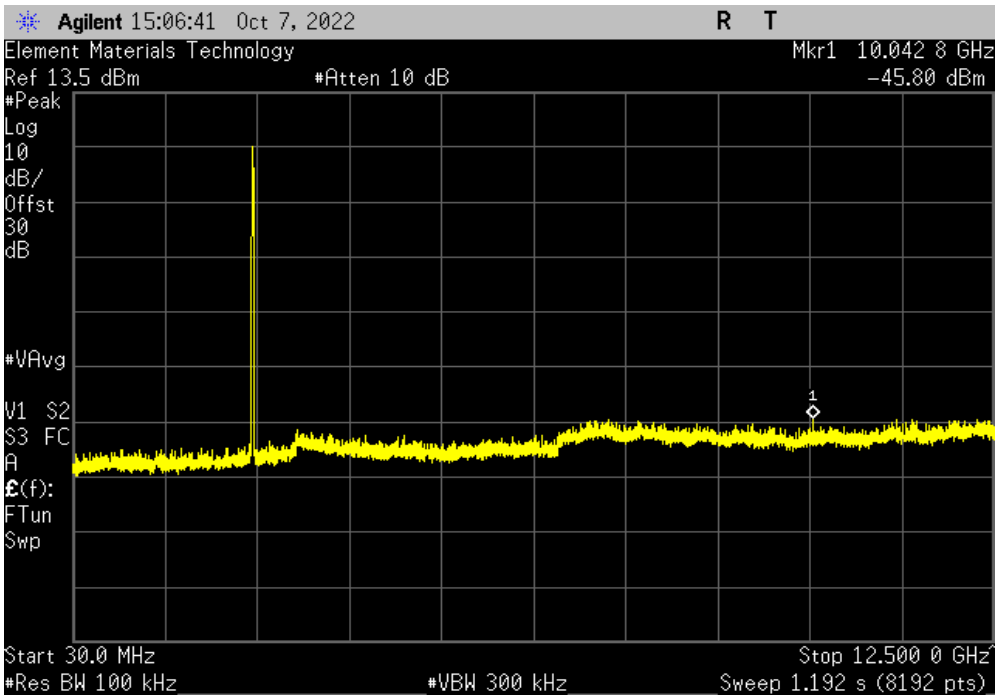


Chain 1, HE20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2463.27	N/A	N/A	N/A

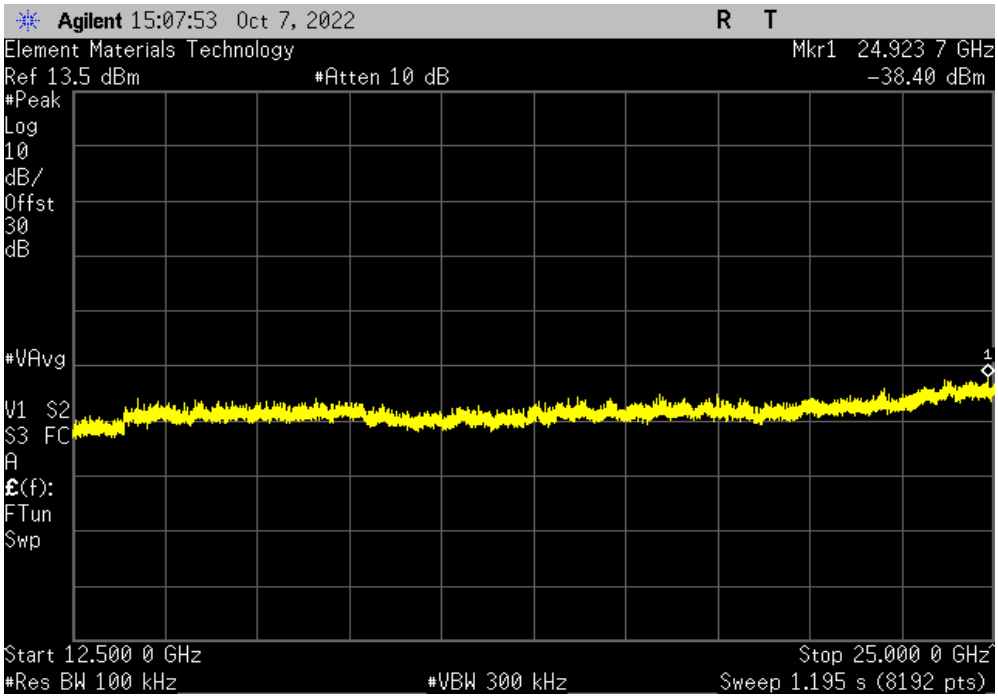


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

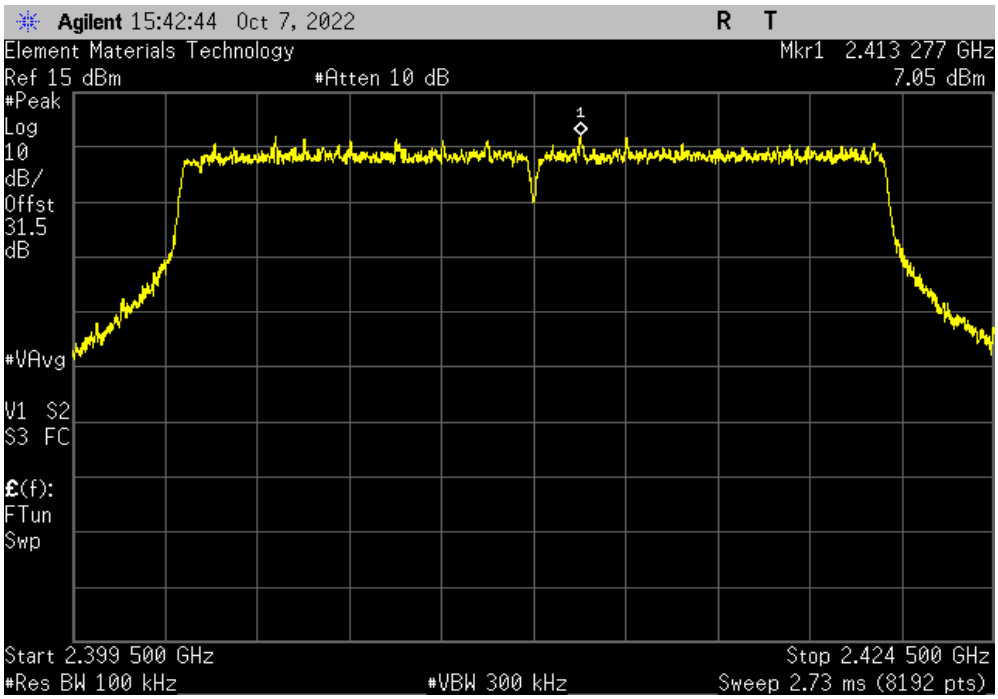
Chain 1, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	10042.8	-53.68	-30	Pass



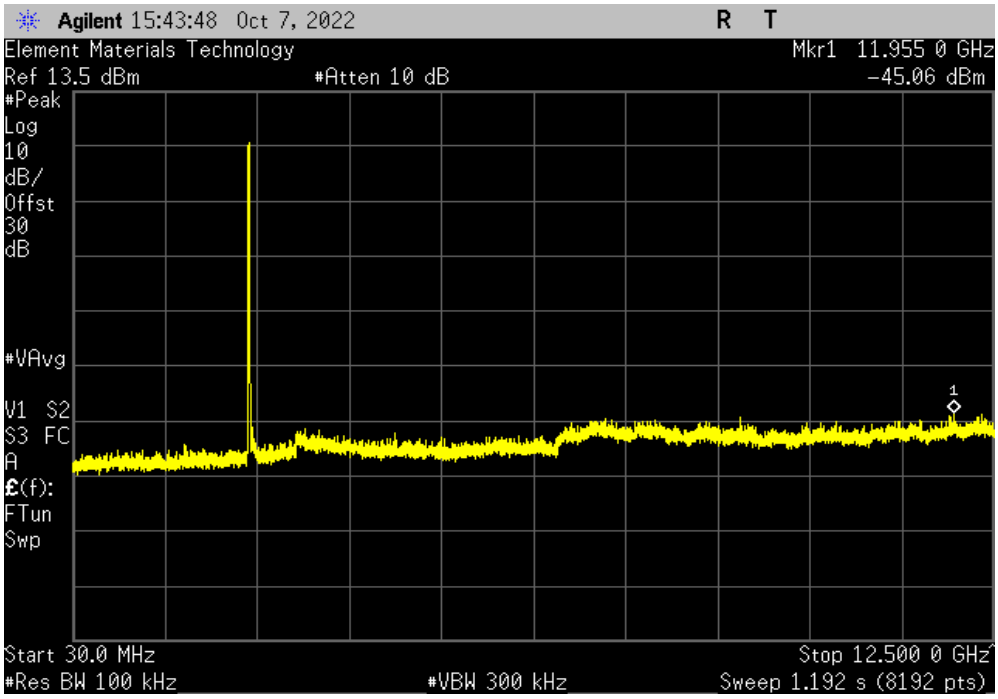
Chain 1, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24923.7	-46.28	-30	Pass



Chain 1, HE20, MCS11, 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

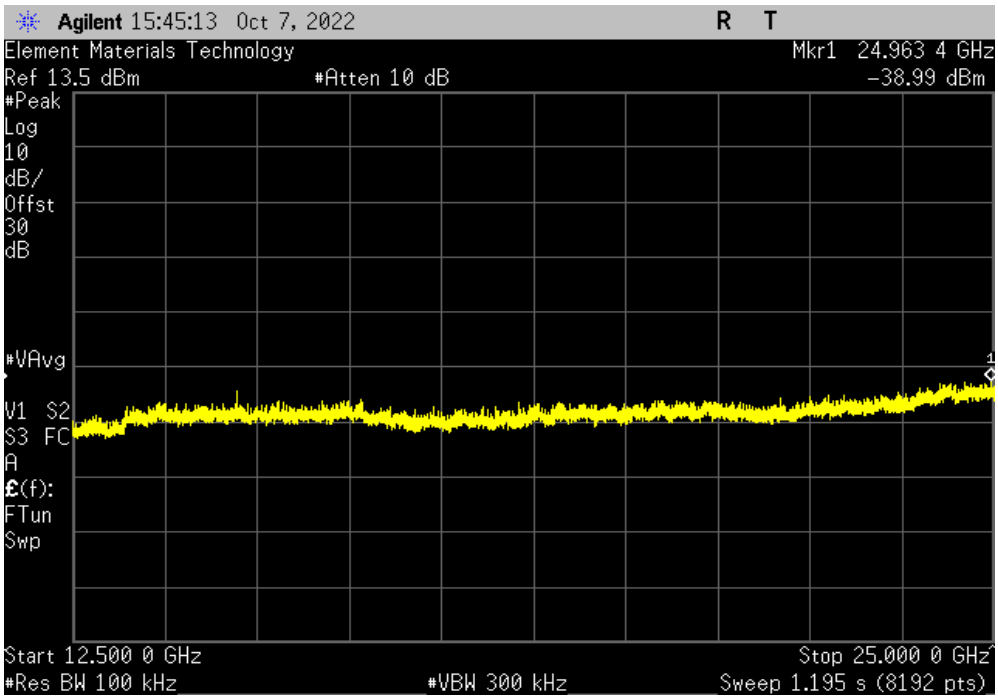


Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11955	-52.11	-30	Pass

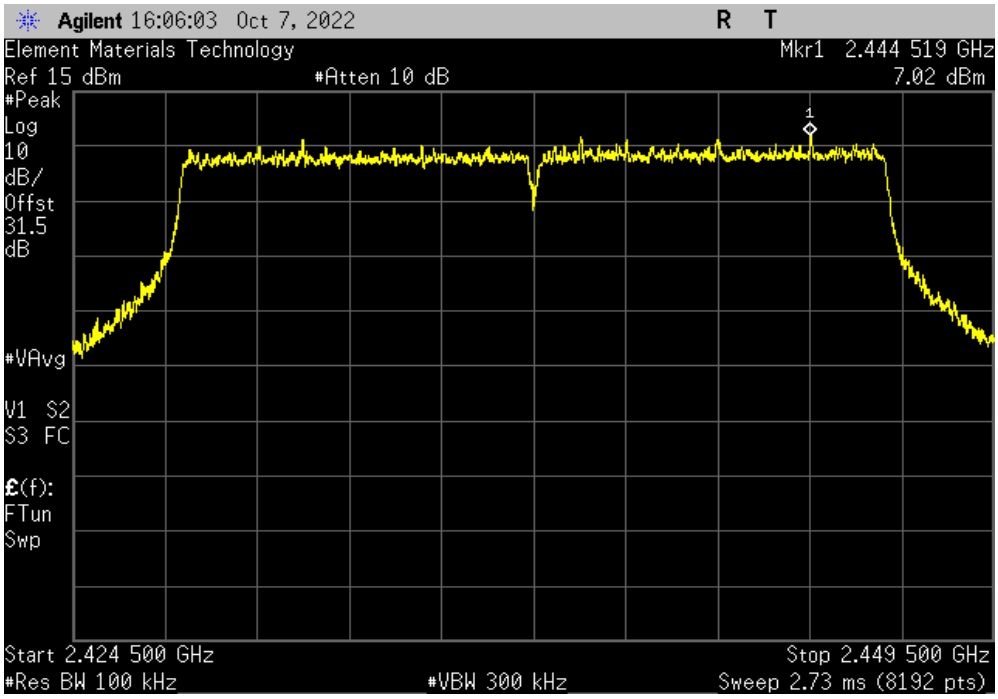


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24963.4	-46.04	-30	Pass

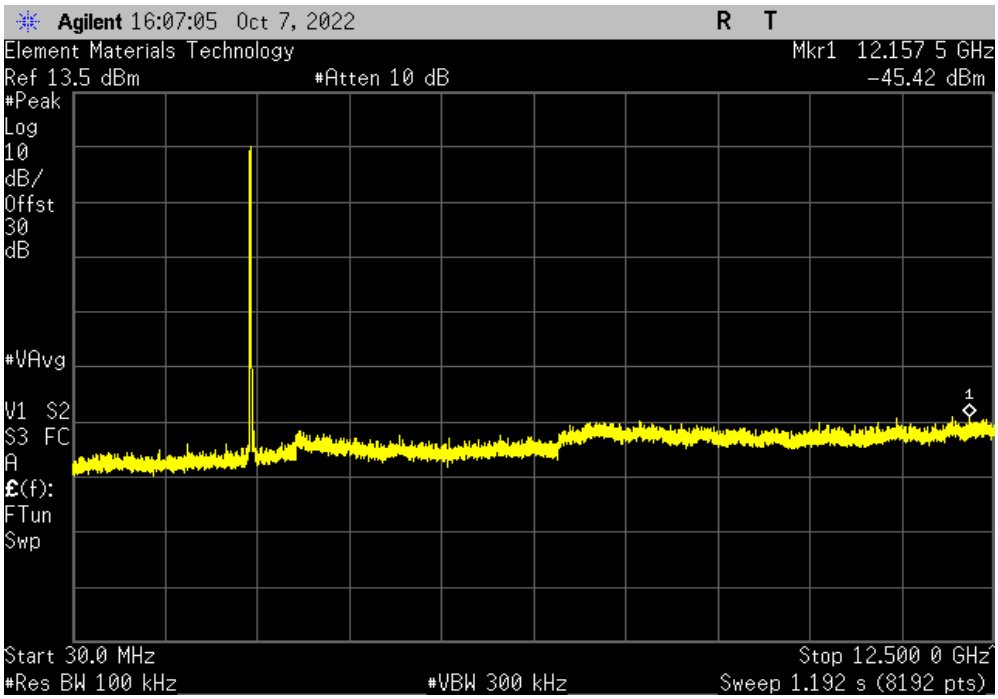


Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2444.52	N/A	N/A	N/A

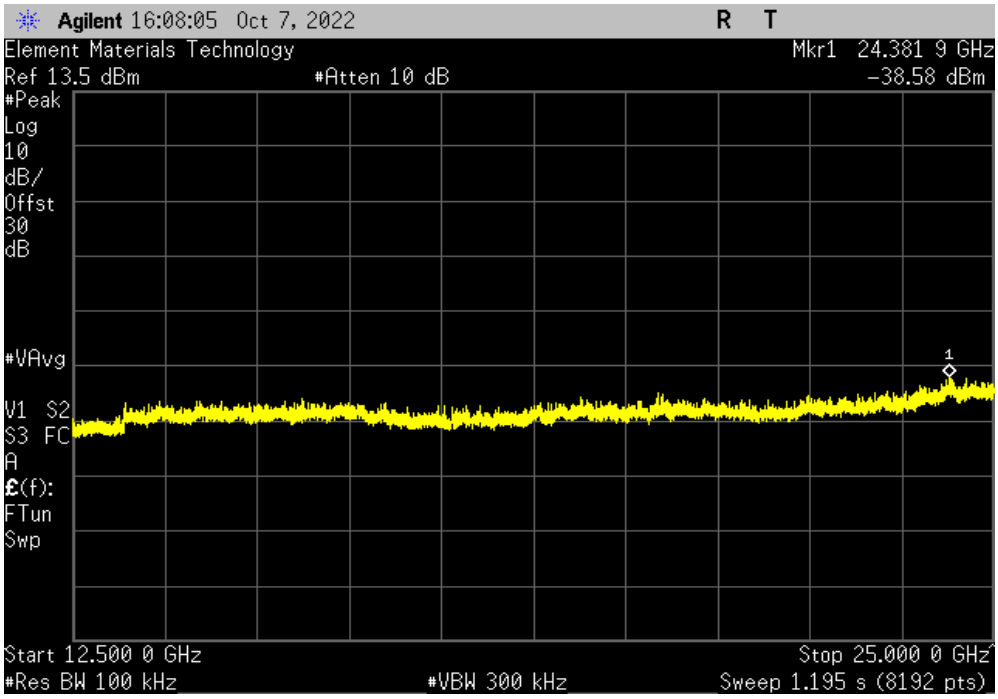


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12157.5	-52.44	-30	Pass

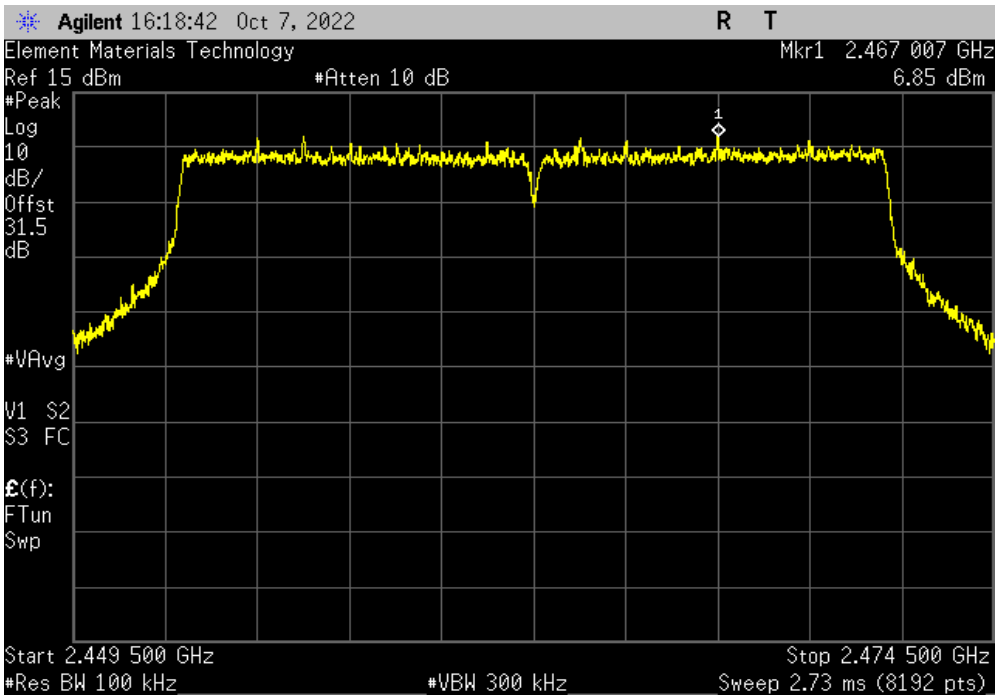


Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24381.9	-45.61	-30	Pass

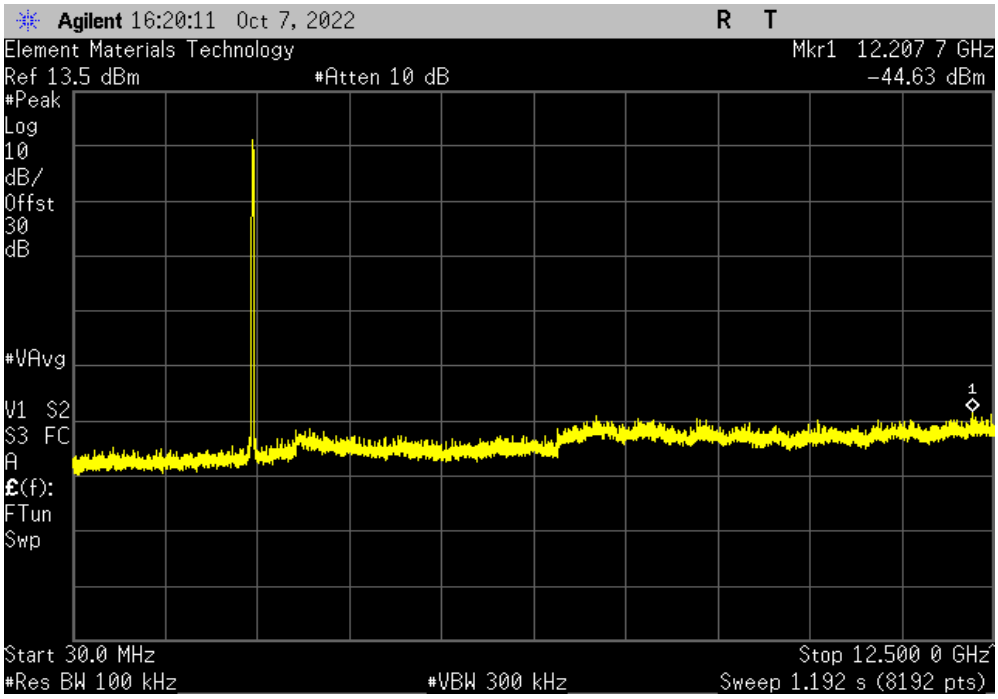


SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS11, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2467.01	N/A	N/A	N/A

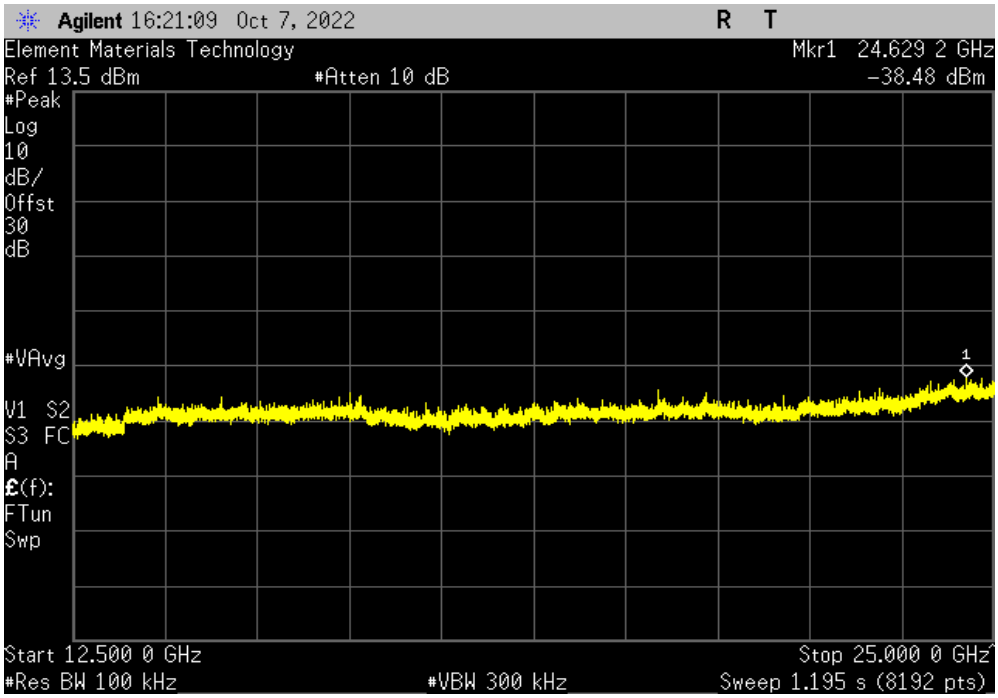


Chain 1, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12207.7	-51.48	-30	Pass



SPURIOUS CONDUCTED EMISSIONS - CHAIN 1

Chain 1, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24629.2	-45.33	-30	Pass



SPURIOUS CONDUCTED EMISSIONS - MIMO

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 - 2023

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	S.M. Electronics	SA26B-10	AWR	2022-07-05	2023-07-05
Generator - Signal	Keysight	N5182B	TFU	2022-12-02	2024-12-02
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2022-12-02	2023-12-02
Attenuator	S.M. Electronics	SA26B-20	AUY	2023-03-13	2024-03-13
Block - DC	Fairview Microwave	SD3379	AMW	2023-03-13	2024-03-13
Analyzer - Spectrum Analyzer	Agilent	E4440A	AAW	2023-02-06	2024-02-06

TEST EQUIPMENT - 2022

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVI	2021-12-05	2022-12-05
Attenuator	S.M. Electronics	SA26B-10	AWR	2022-07-05	2023-07-05
Attenuator	S.M. Electronics	SA26B-20	AUY	2022-03-15	2023-03-15
Block - DC	Fairview Microwave	SD3379	AMW	2022-03-14	2023-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AAW	2022-01-26	2023-01-26

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

SPURIOUS CONDUCTED EMISSIONS - MIMO

element

TbiTx 2022.06.03.0 it 2023.02.14.0

EUT:	U8 Hawk			**Work Order:**	KYME0068
Serial Number:	See configuration			**Date:**	03/15/23
Customer:	Kymeta Corp.			**Temperature:**	20.5°C
Attendees:	Dean Busch and Mike Olsen			**Humidity:**	40%
Project:	None			**Barometric Pres.:**	1006 mbar
Tested by:	Jeff Alcoke	**Power:**	12VDC	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2022	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

COMMENTS

All measurments collected before 2023, were performed on configuration KYME0068-1. Reference level offset includes: DC block, 30 dB attenuation, and measurement cable.

DEVIATIONS FROM TEST STANDARD

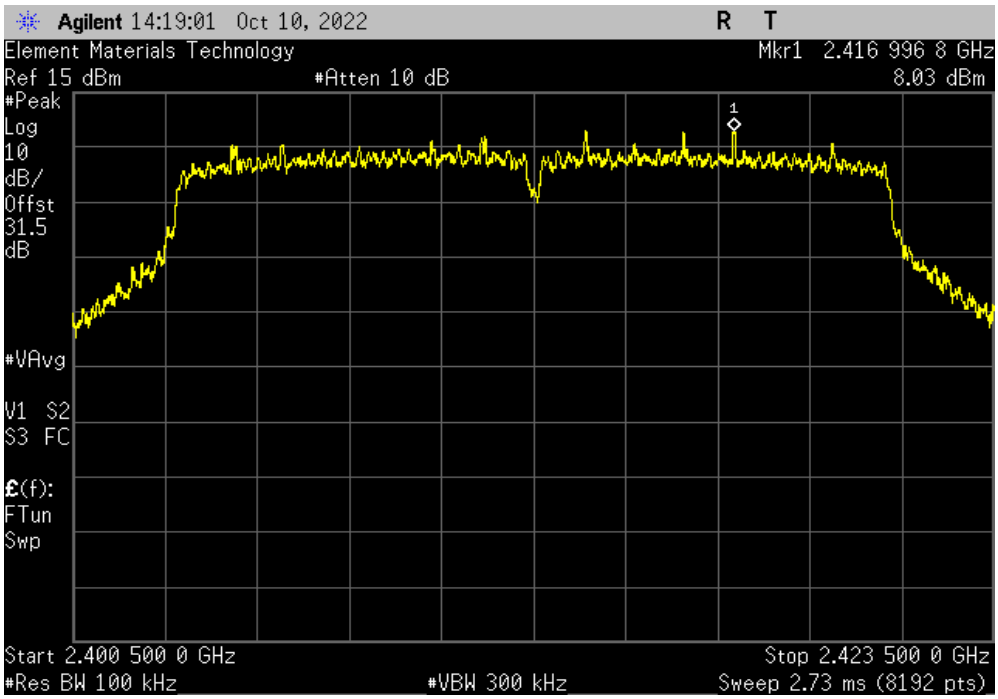
None

Configuration #	KYME0068-1 KYME0068-5	Signature

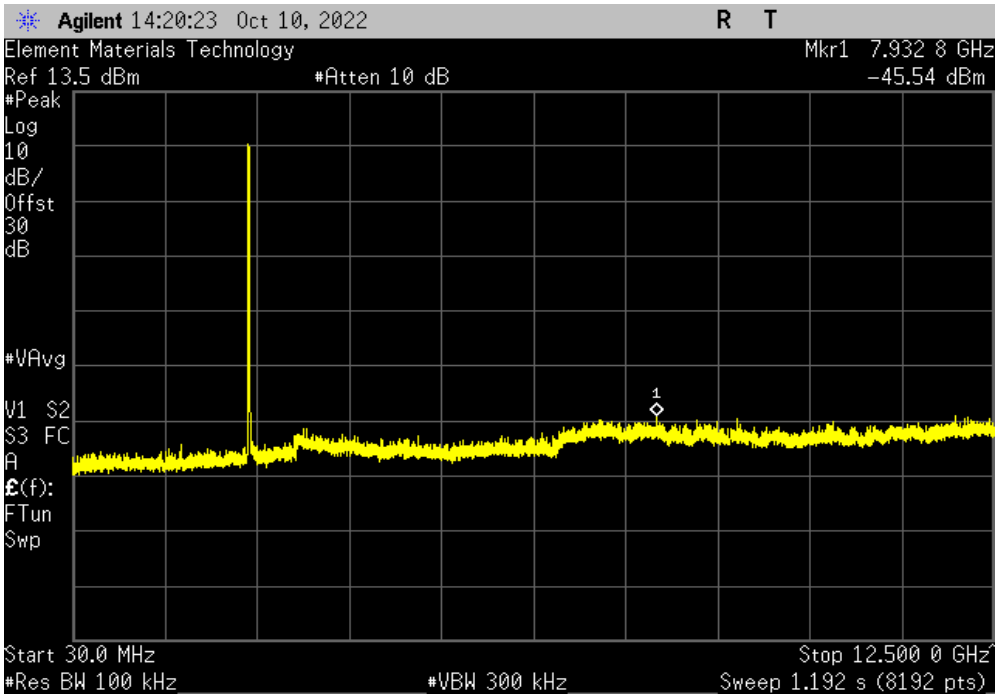
		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
MIMO - Chain 0						
	HT20, MCS8					
	Low Channel 1, 2412 MHz	Fundamental	2417	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7932.8	-53.57	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24688.7	-46.92	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2441.99	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12300.6	-52.83	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24380.4	-45.76	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2460.75	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12331	-52.49	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24374.3	-46.35	-30	Pass
	HT20, MCS15					
	Low Channel 1, 2412 MHz	Fundamental	2416.98	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12490.9	-51.42	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24800.1	-45.56	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2435.71	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7645.1	-50.2	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24708.5	-43.49	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.48	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7093.9	-50.49	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24641.4	-43.06	-30	Pass
	VHT20, MCS0					
	Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12168.1	-54.57	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24476.6	-47.87	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2435.73	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12273.2	-53.78	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24668.8	-46.26	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2466.99	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7060.5	-53.69	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24609.3	-46.93	-30	Pass
	VHT20, MCS8					
	Low Channel 1, 2412 MHz	Fundamental	2407	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12229	-53.36	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24409.4	-46.71	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2444.5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11900.2	-52.96	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24998.5	-45.78	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2467.01	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12439.1	-52.27	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24496.4	-45.99	-30	Pass
	HE20, MCS0					
	Low Channel 1, 2412 MHz	Fundamental	2413.28	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7127.4	-54.65	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24703.9	-47.76	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2440.76	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11939.8	-53.82	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24388	-46.51	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2467.01	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12201.6	-53.12	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24986.3	-46.56	-30	Pass
	HE20, MCS11					
	Low Channel 1, 2412 MHz	Fundamental	2412.56	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7902.3	-53.37	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24352.9	-45.45	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2430.75	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7966.3	-51.88	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24366.7	-45.29	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2464	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12335.6	-51.01	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24676.5	-44.07	-30	Pass

MIMO - Chain 1						
	HT20, MCS8					
	Low Channel 1, 2412 MHz	Fundamental	2413.26	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	12463.5	-53.28	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24272.1	-47.16	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2435.75	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7205.1	-53.45	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24433.8	-46.72	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2466.99	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12352.3	-53.43	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24621.5	-45.66	-30	Pass
	HT20, MCS15					
	Low Channel 1, 2412 MHz	Fundamental	2416.99	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7090.9	-51.42	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24646	-44.65	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2441.98	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	7702.9	-51.37	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24092	-44.8	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.47	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	10627.4	-51.23	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24748.2	-44.56	-30	Pass
	VHT20, MCS0					
	Low Channel 1, 2412 MHz	Fundamental	2413.25	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7036.1	-53.66	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24394.2	-46.39	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2442.03	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11635.3	-53.36	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24922.2	-46.83	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2467.01	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12248.8	-52.93	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24388	-46.43	-30	Pass
	VHT20, MCS8					
	Low Channel 1, 2412 MHz	Fundamental	2409.5	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	11923	-52.2	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24736	-45.77	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2440.76	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12369.1	-52.04	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24893.2	-45.22	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.51	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7135.1	-52.04	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24406.4	-45.44	-30	Pass
	HE20, MCS0					
	Low Channel 1, 2412 MHz	Fundamental	2413.29	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	7293.4	-53.14	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24345.3	-46.82	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2442.02	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	12151.4	-53.63	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24787.9	-47	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2466.99	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	12148.3	-52.72	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24362.1	-46.43	-30	Pass
	HE20, MCS11					
	Low Channel 1, 2412 MHz	Fundamental	2419.49	N/A	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	11875.8	-52.16	-30	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	24861.1	-45.52	-30	Pass
	Mid Channel 6, 2437 MHz	Fundamental	2441.99	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	11397.8	-52.7	-30	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	24731.4	-45.73	-30	Pass
	High Channel 11, 2462 MHz	Fundamental	2469.5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	7326.9	-50.8	-30	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	24964.9	-44.68	-30	Pass

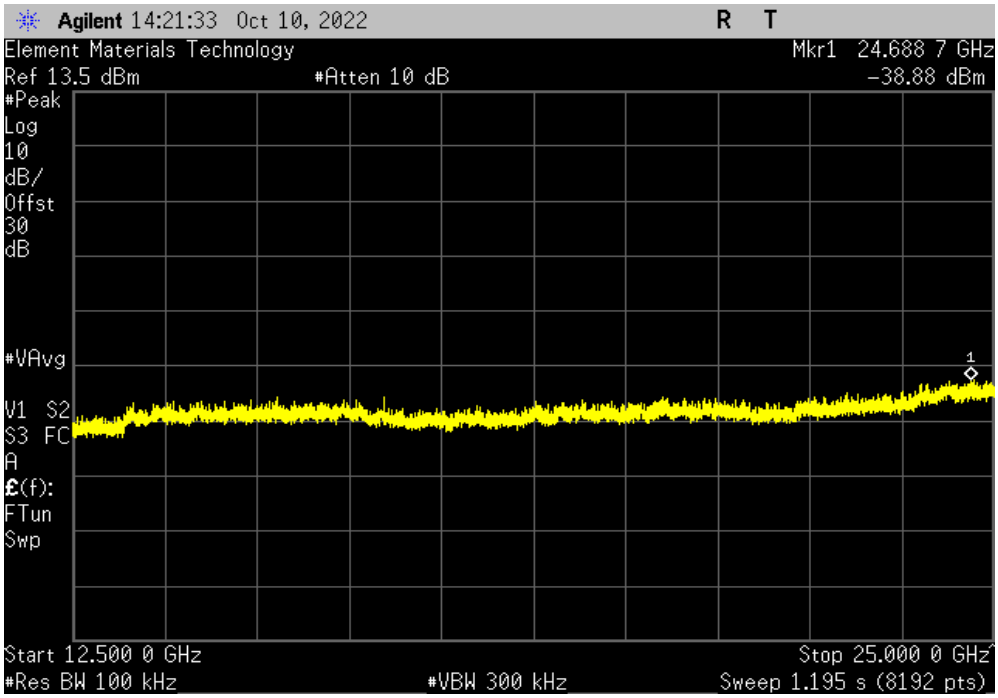
MIMO - Chain 0, HT20, MCS8, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2417	N/A	N/A	N/A



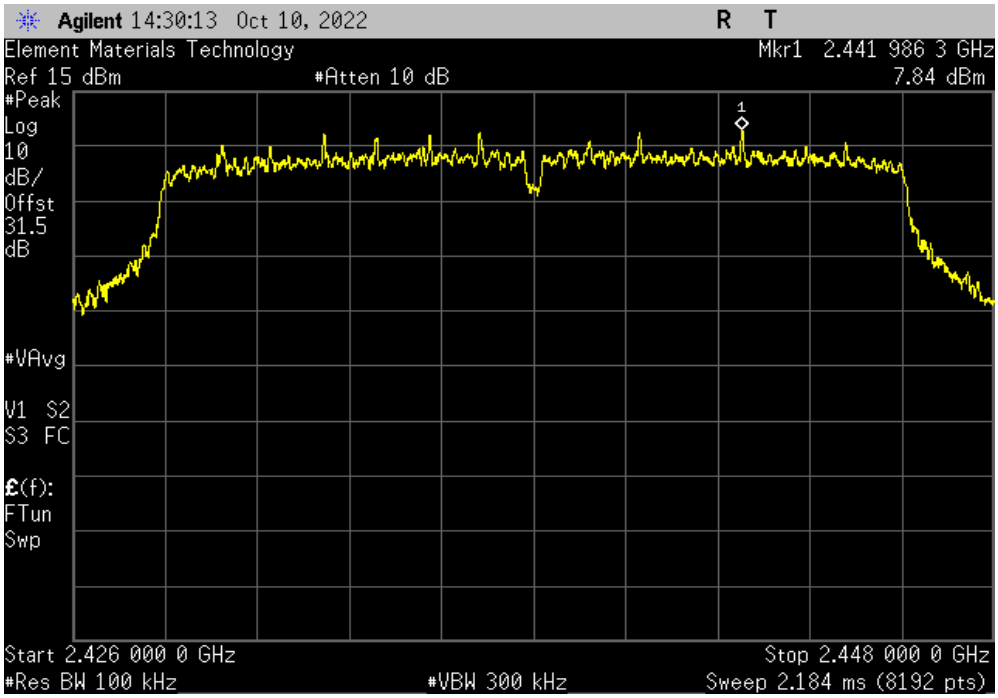
MIMO - Chain 0, HT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7932.8	-53.57	-30	Pass



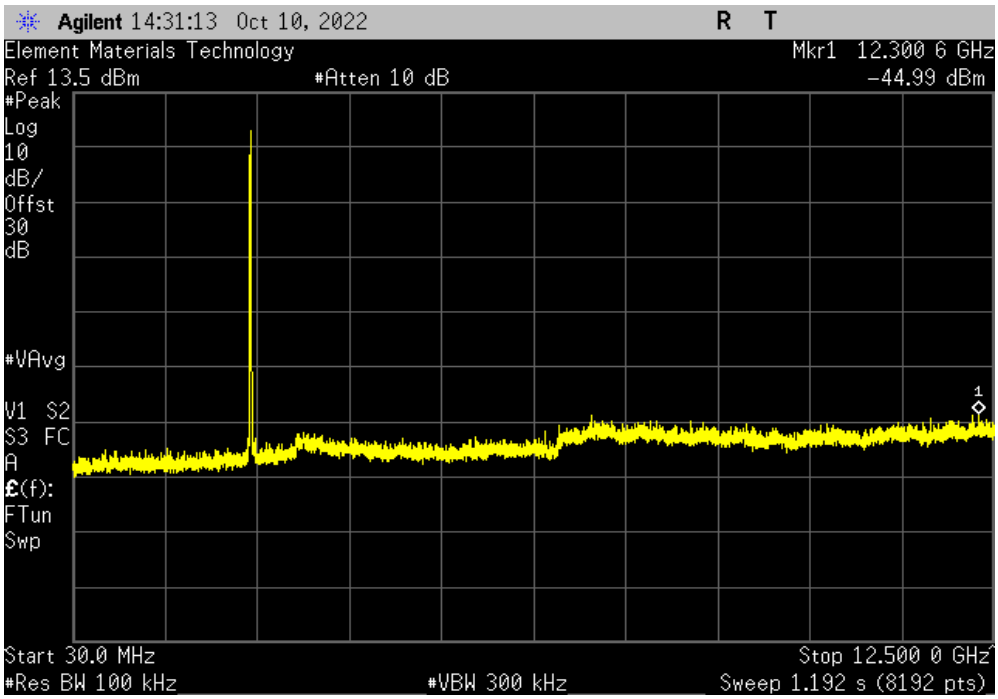
MIMO - Chain 0, HT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24688.7	-46.92	-30	Pass



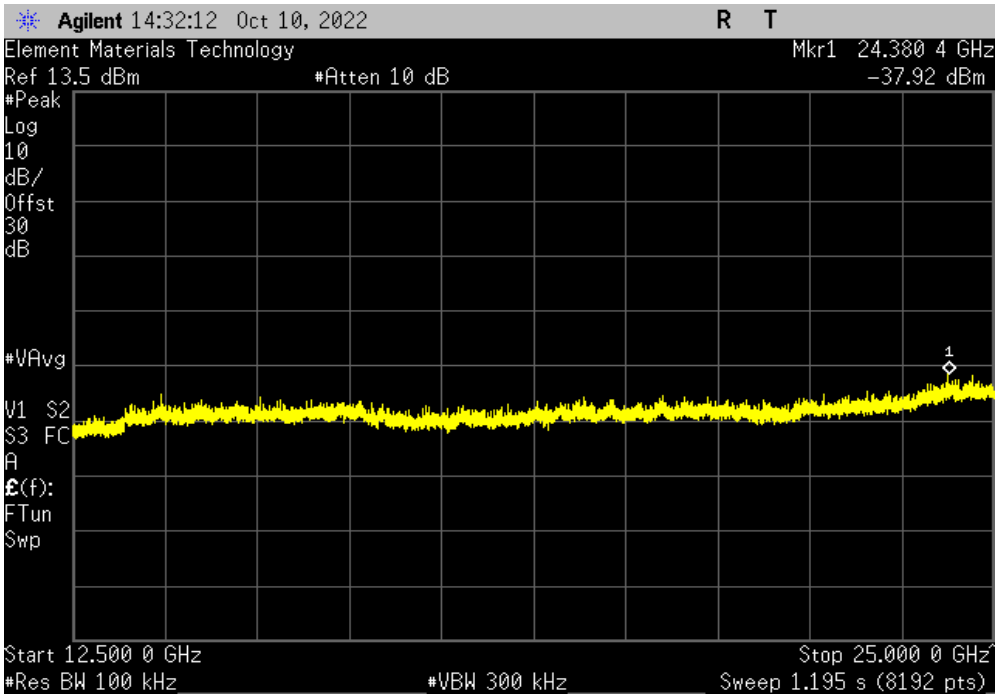
MIMO - Chain 0, HT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2441.99	N/A	N/A	N/A



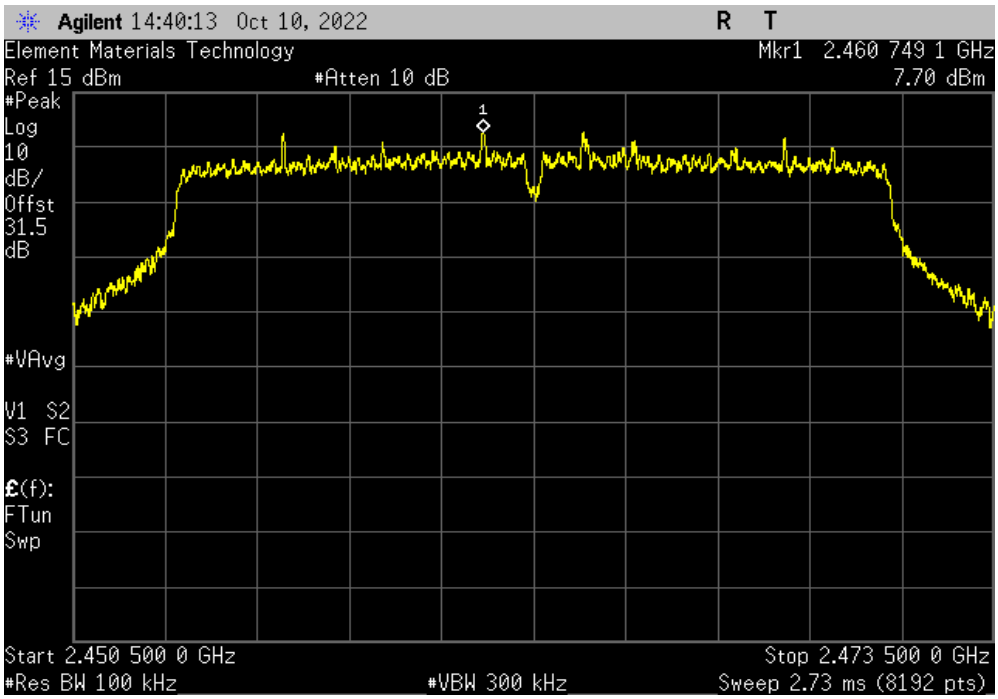
MIMO - Chain 0, HT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12300.6	-52.83	-30	Pass



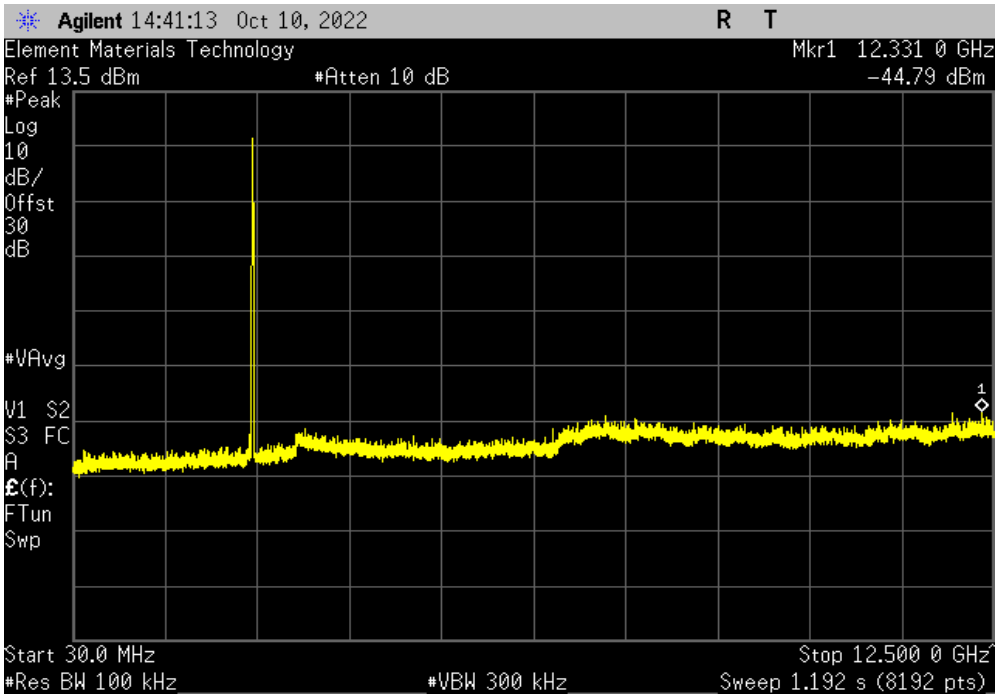
MIMO - Chain 0, HT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24380.4	-45.76	-30	Pass



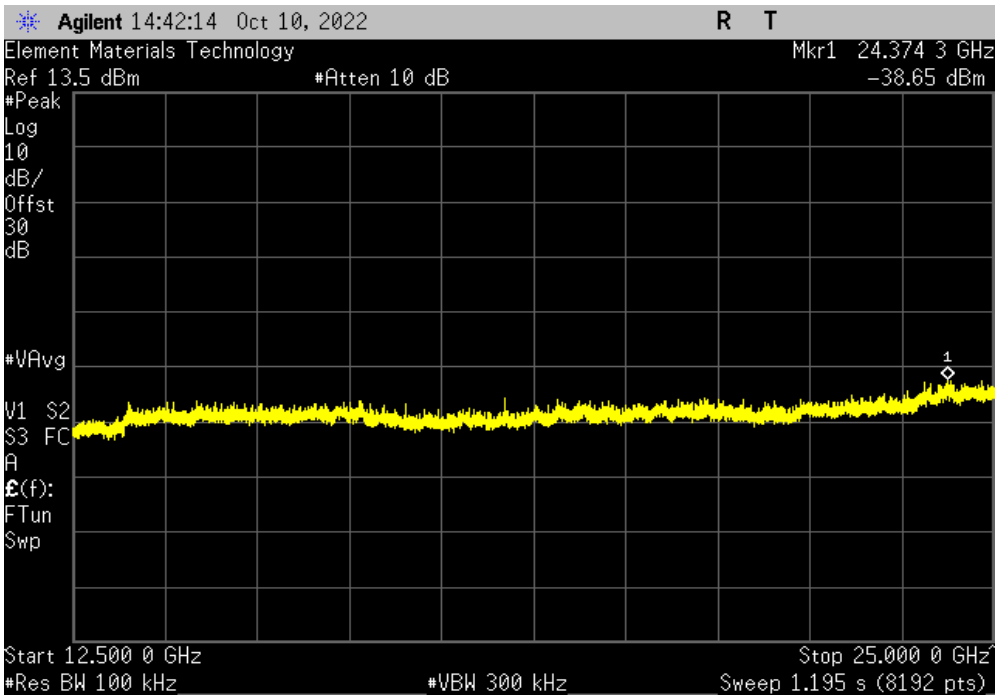
MIMO - Chain 0, HT20, MCS8, High Channel 11, 2462 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2460.75	N/A	N/A	N/A



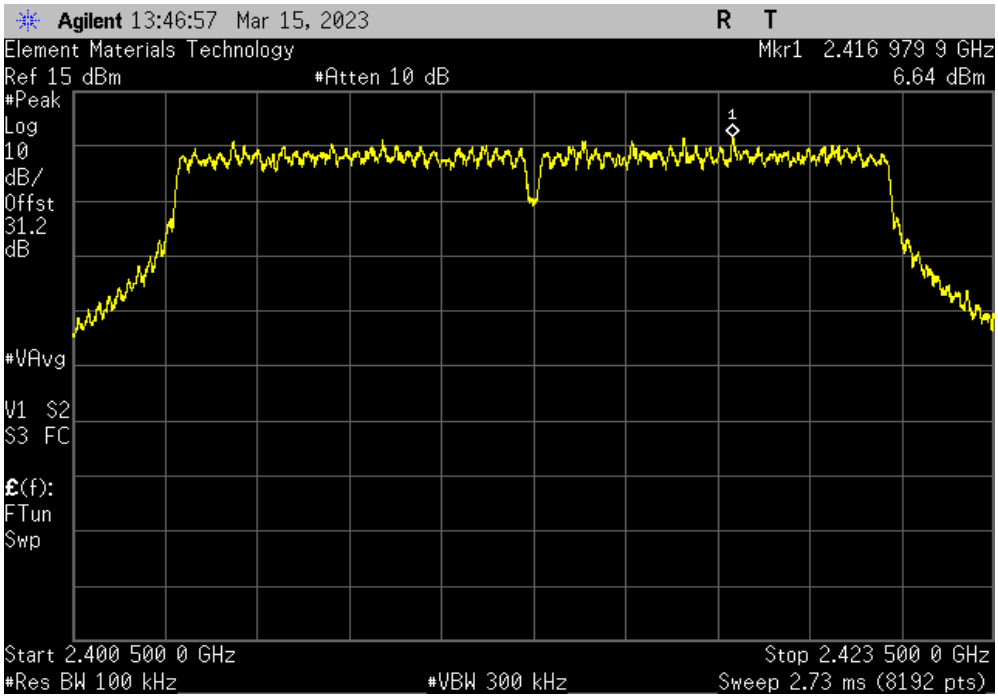
MIMO - Chain 0, HT20, MCS8, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12331	-52.49	-30	Pass



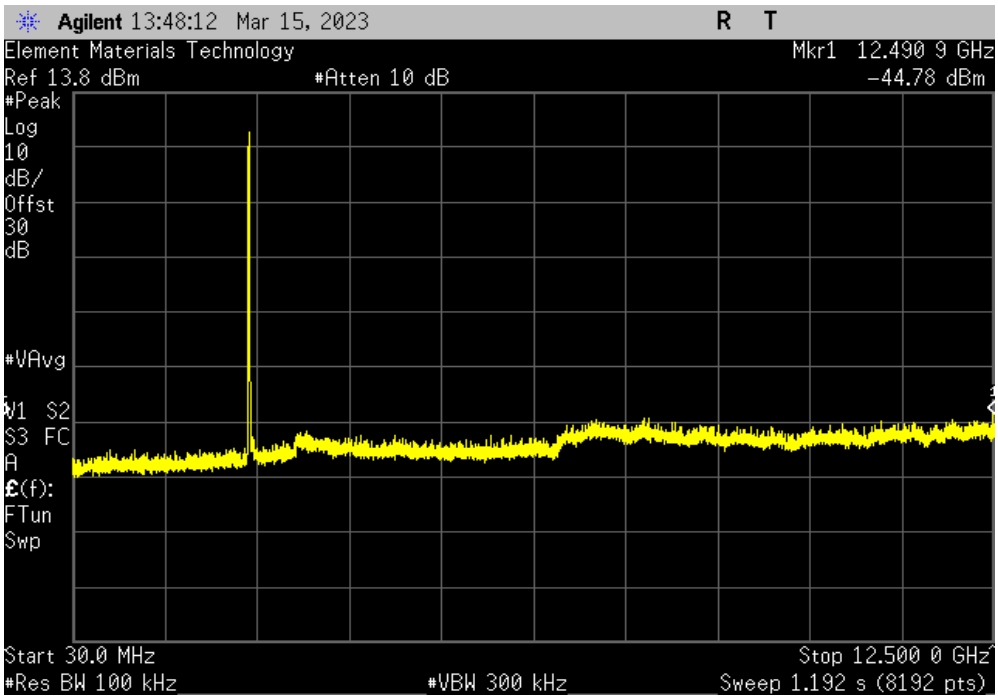
MIMO - Chain 0, HT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24374.3	-46.35	-30	Pass



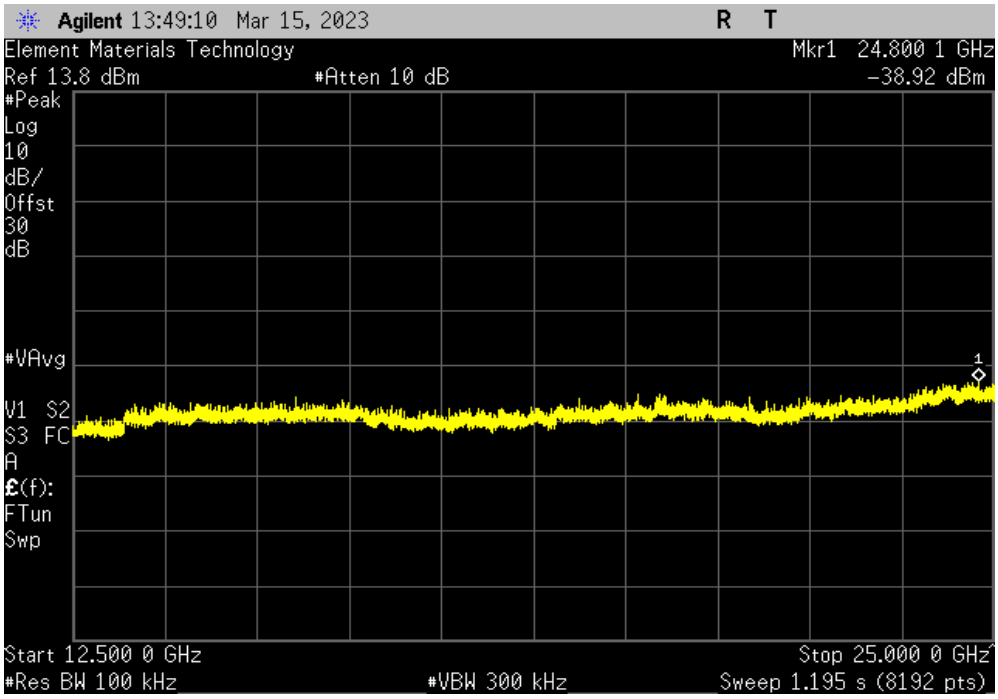
MIMO - Chain 0, HT20, MCS15, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2416.98	N/A	N/A	N/A



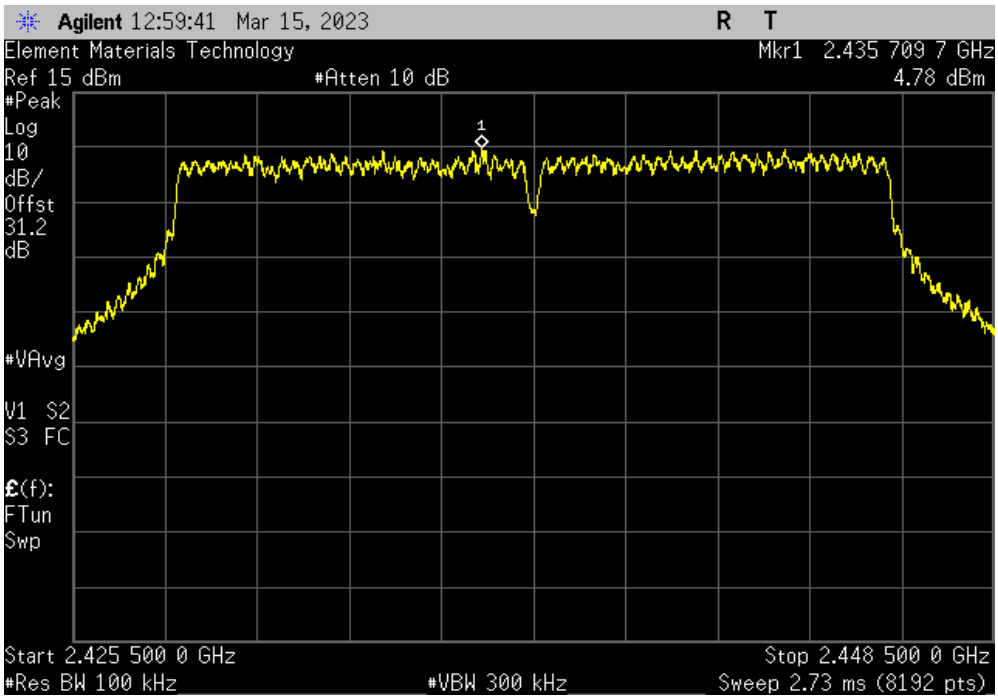
MIMO - Chain 0, HT20, MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12490.9	-51.42	-30	Pass



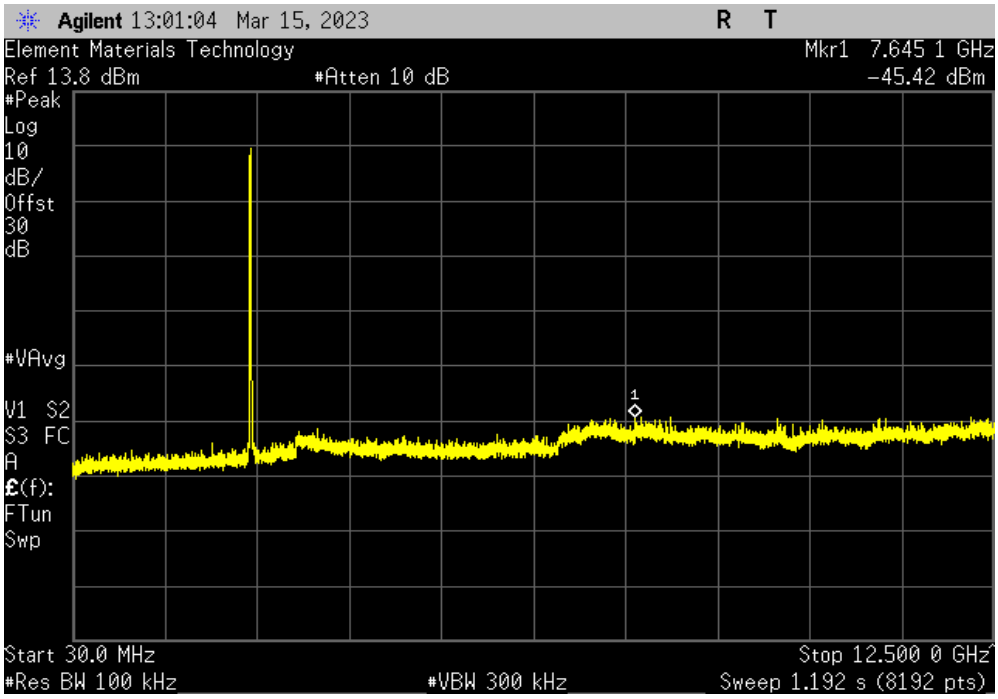
MIMO - Chain 0, HT20, MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24800.1	-45.56	-30	Pass



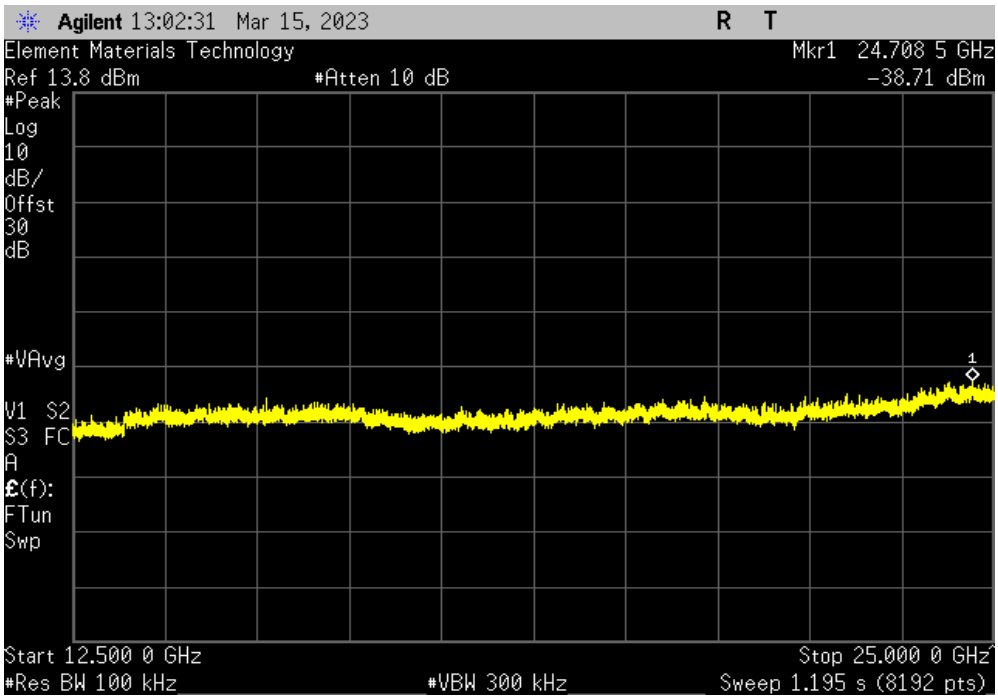
MIMO - Chain 0, HT20, MCS15, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2435.71	N/A	N/A	N/A



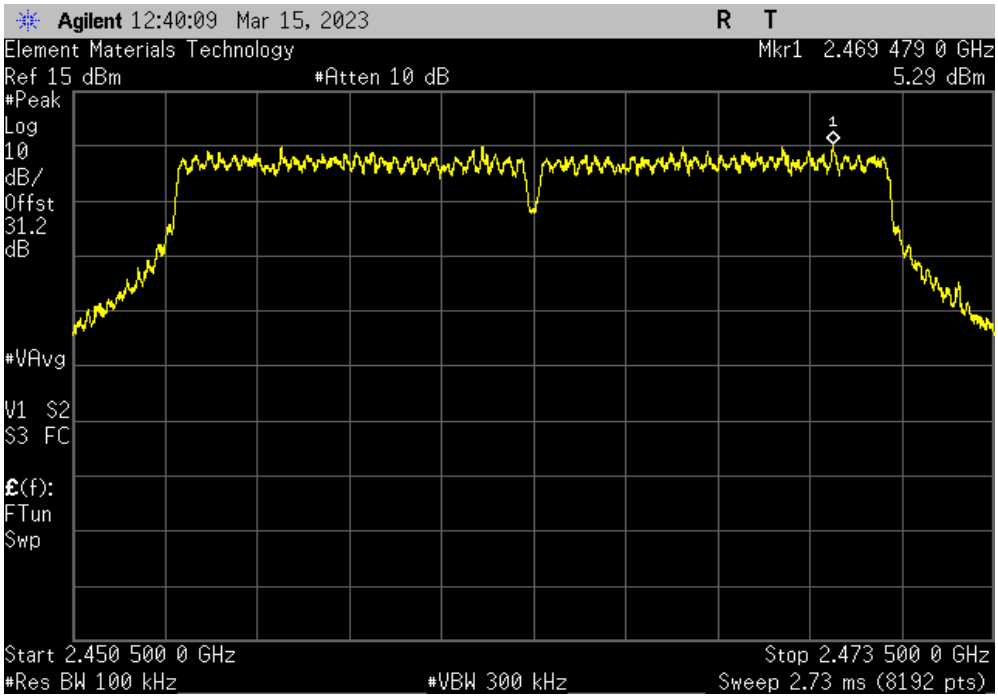
MIMO - Chain 0, HT20, MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7645.1	-50.2	-30	Pass



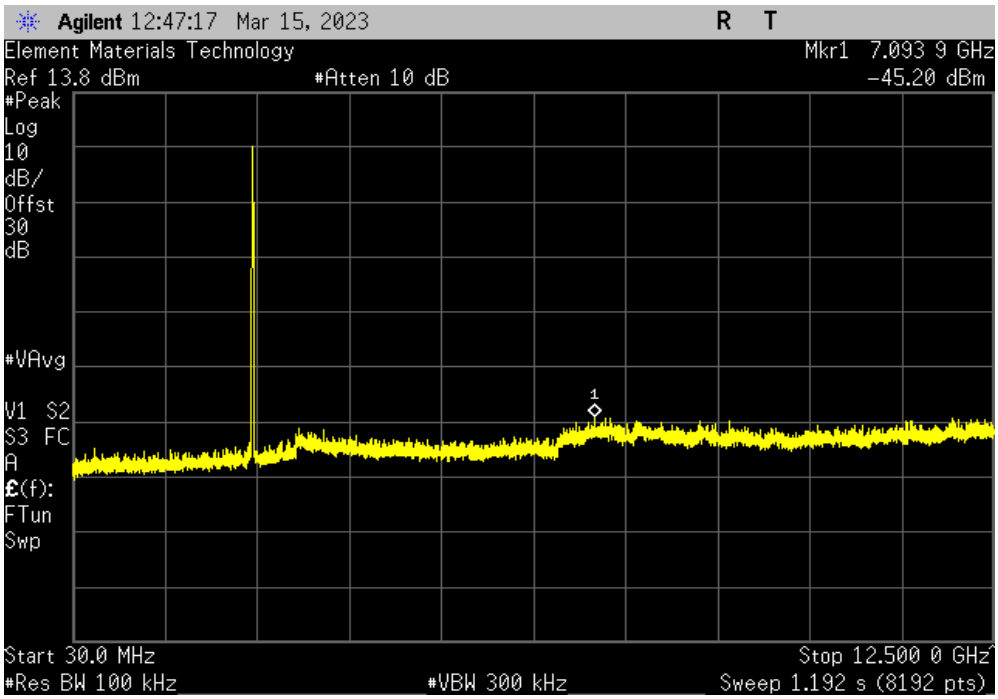
MIMO - Chain 0, HT20, MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24708.5	-43.49	-30	Pass



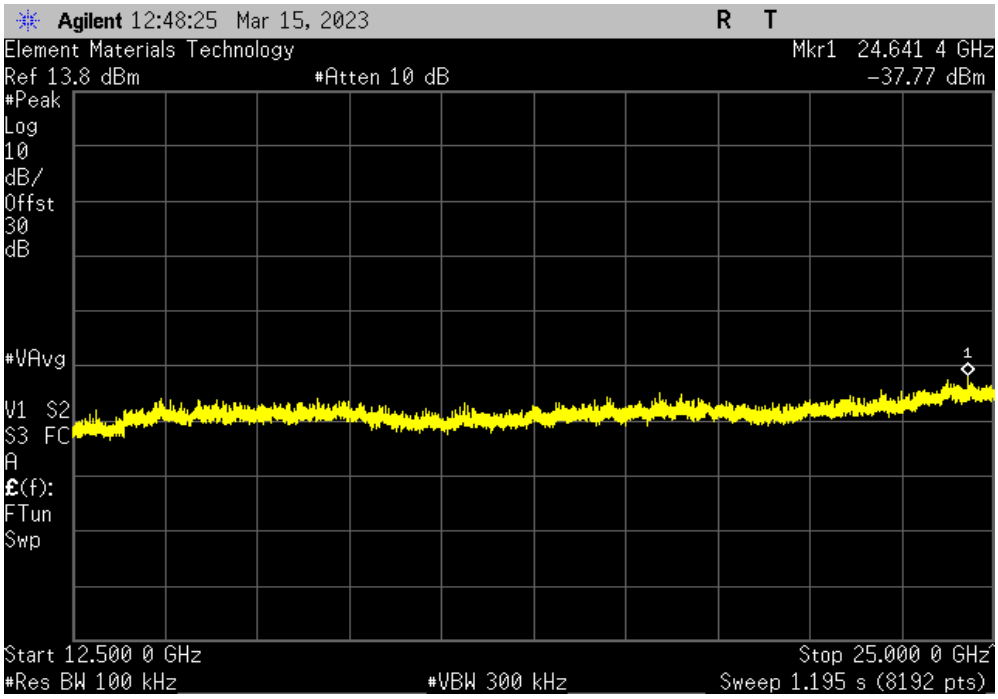
MIMO - Chain 0, HT20, MCS15, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2469.48	N/A	N/A	N/A



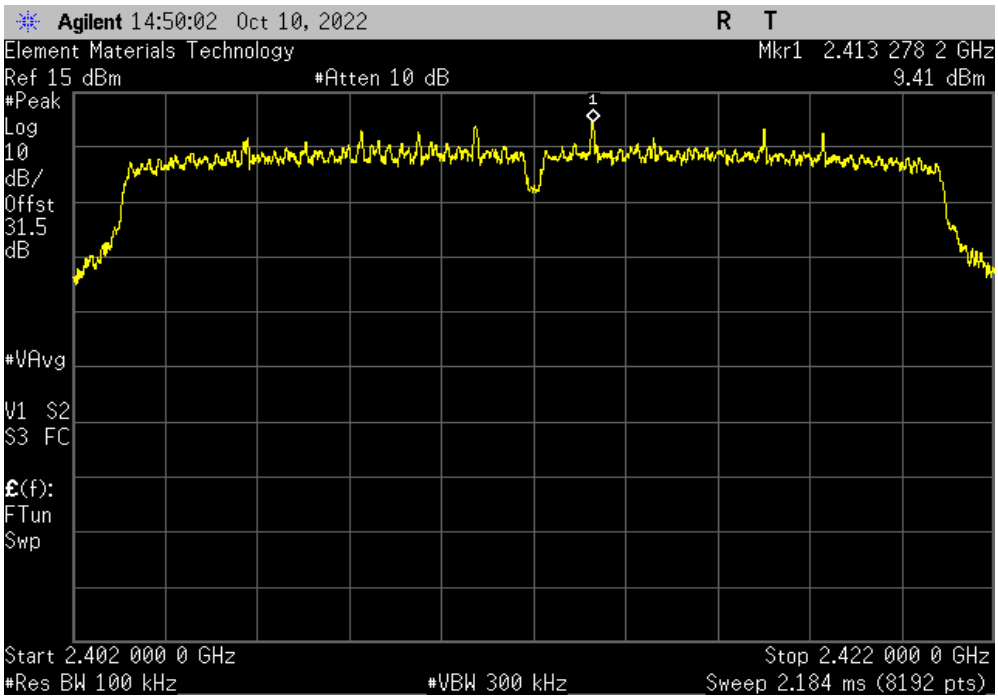
MIMO - Chain 0, HT20, MCS15, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7093.9	-50.49	-30	Pass



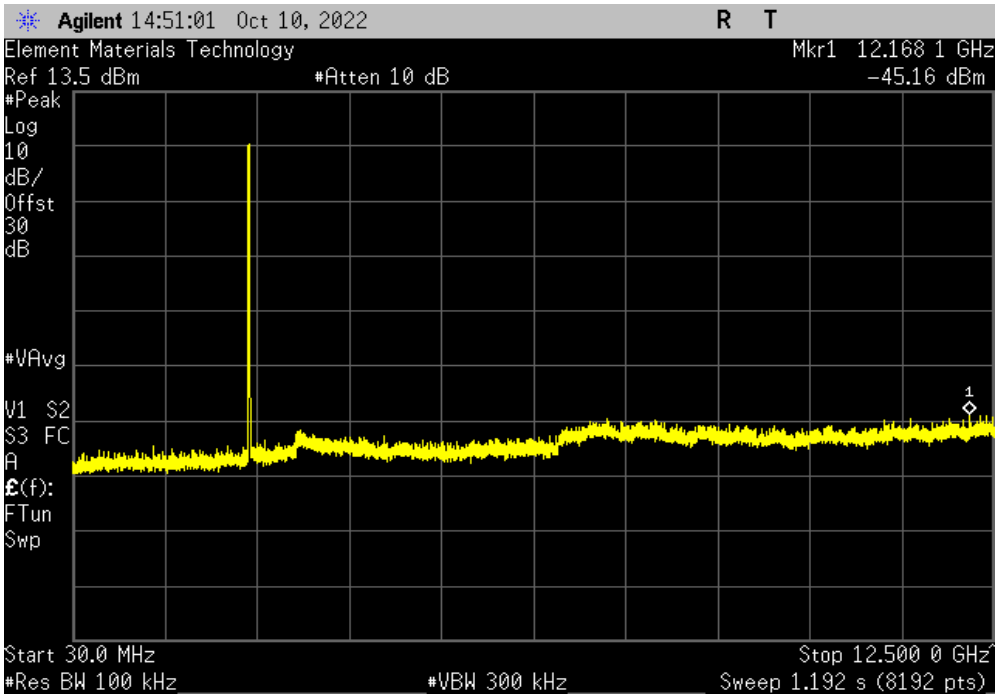
MIMO - Chain 0, HT20, MCS15, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24641.4	-43.06	-30	Pass



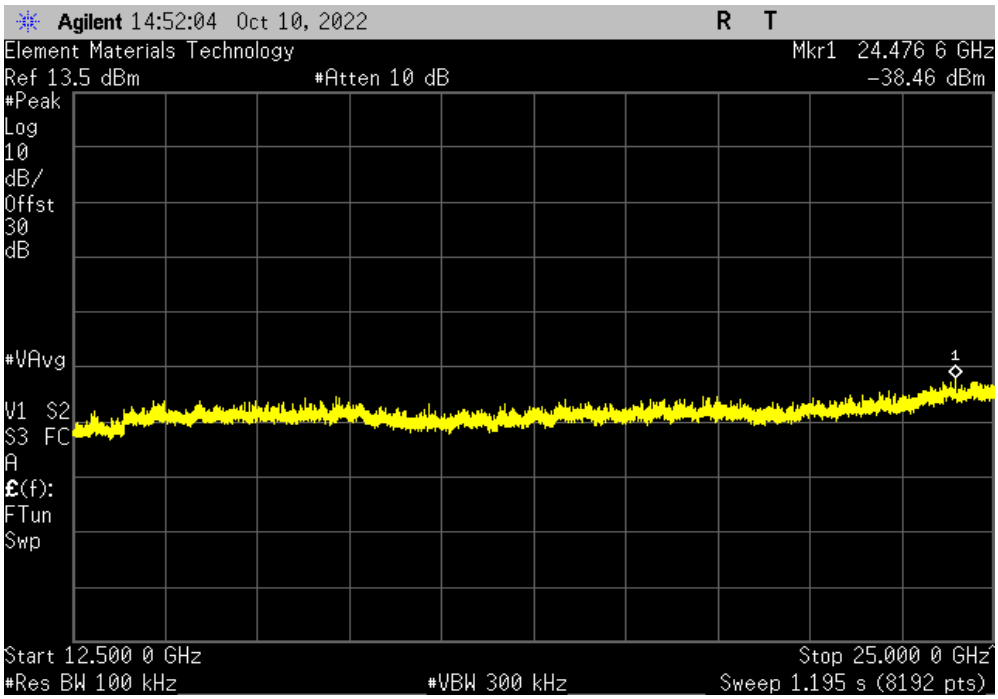
MIMO - Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2413.28	N/A	N/A	N/A



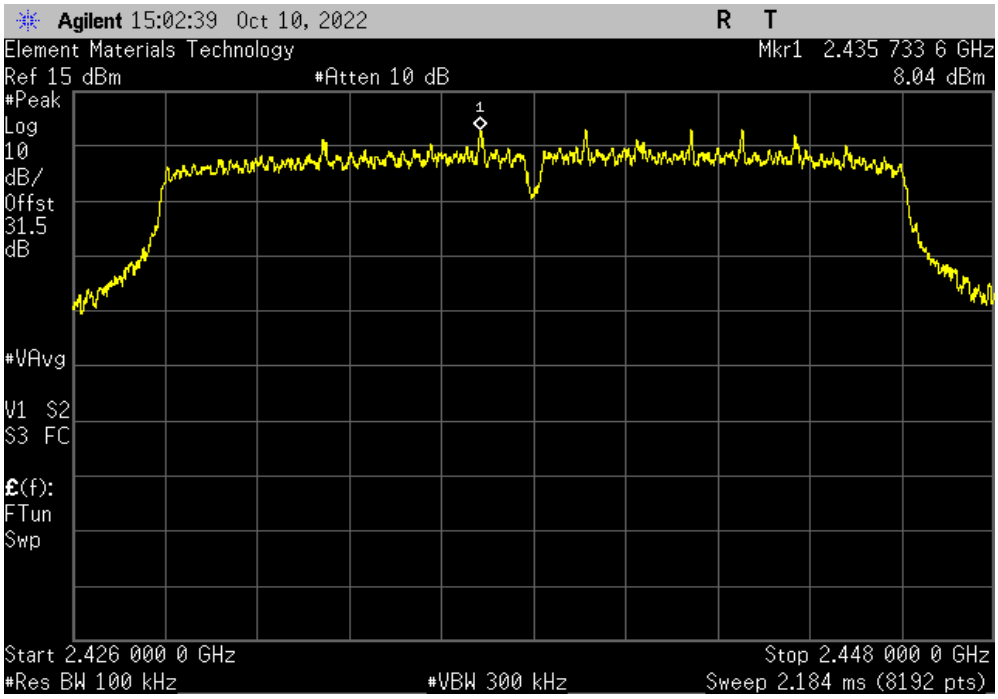
MIMO - Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12168.1	-54.57	-30	Pass



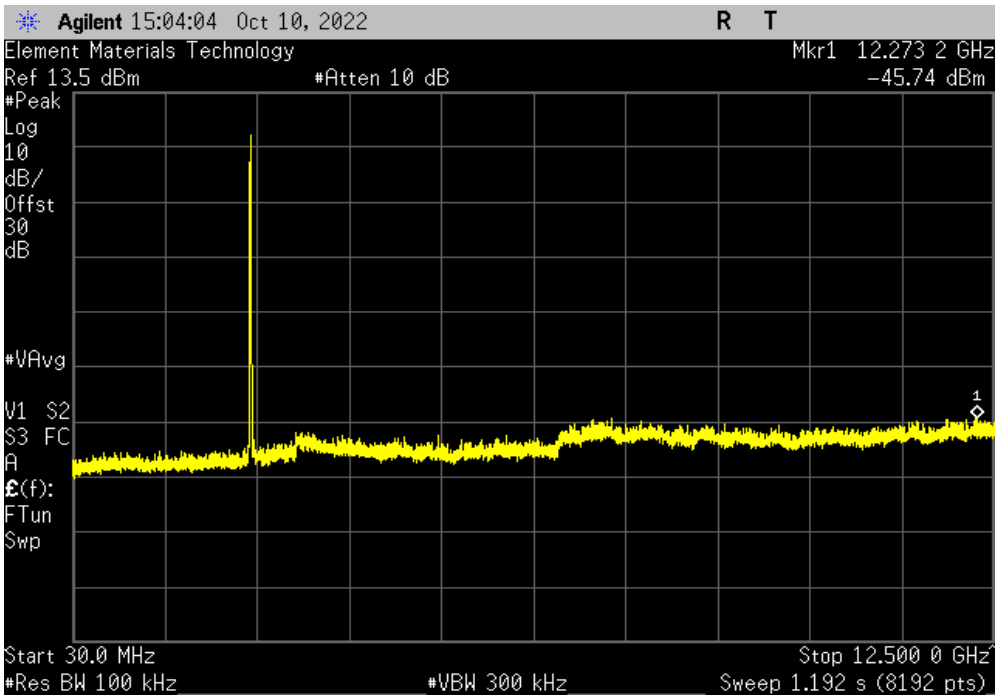
MIMO - Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24476.6	-47.87	-30	Pass



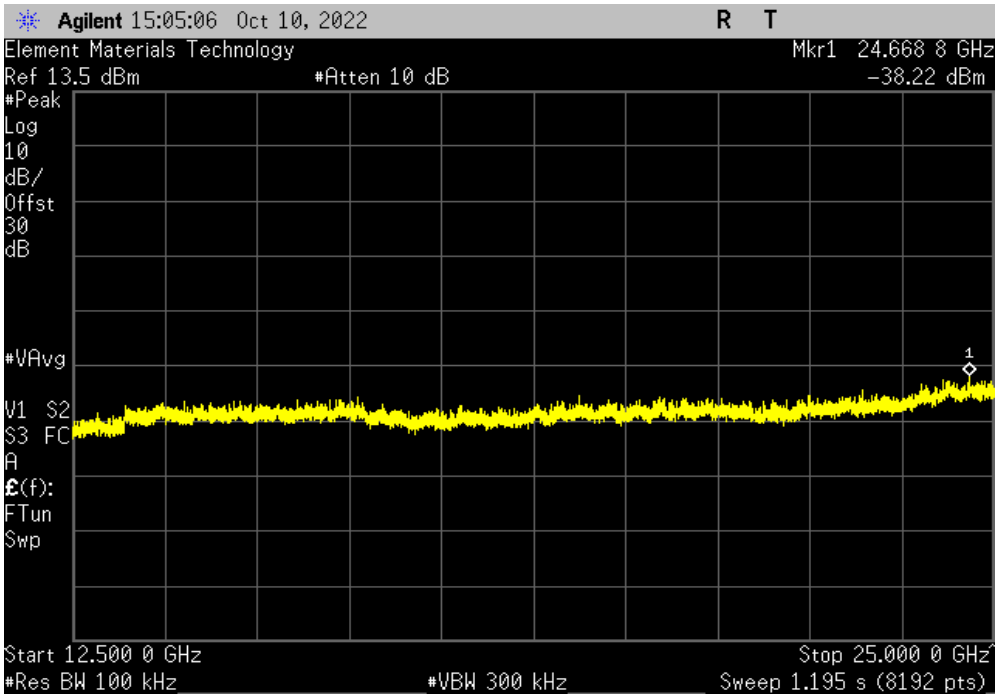
MIMO - Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2435.73	N/A	N/A	N/A



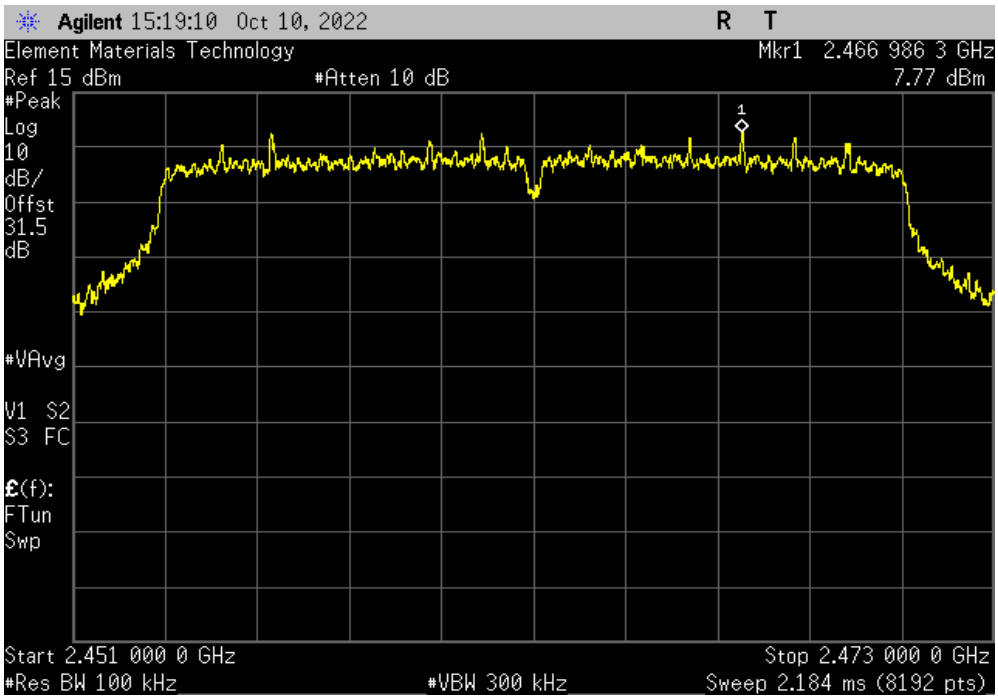
MIMO - Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12273.2	-53.78	-30	Pass



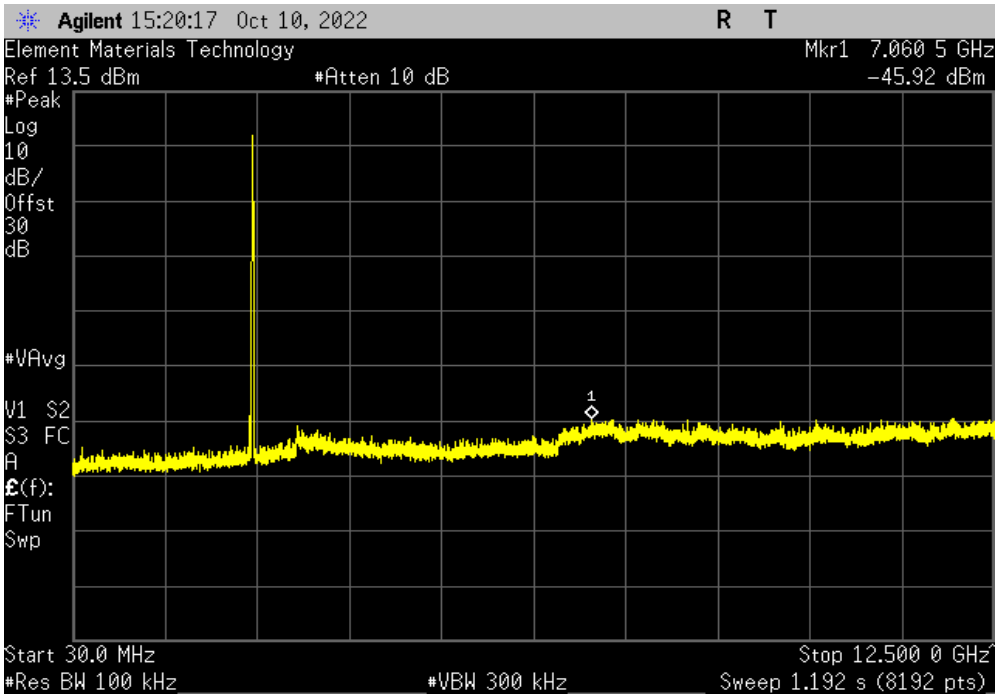
MIMO - Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24668.8	-46.26	-30	Pass



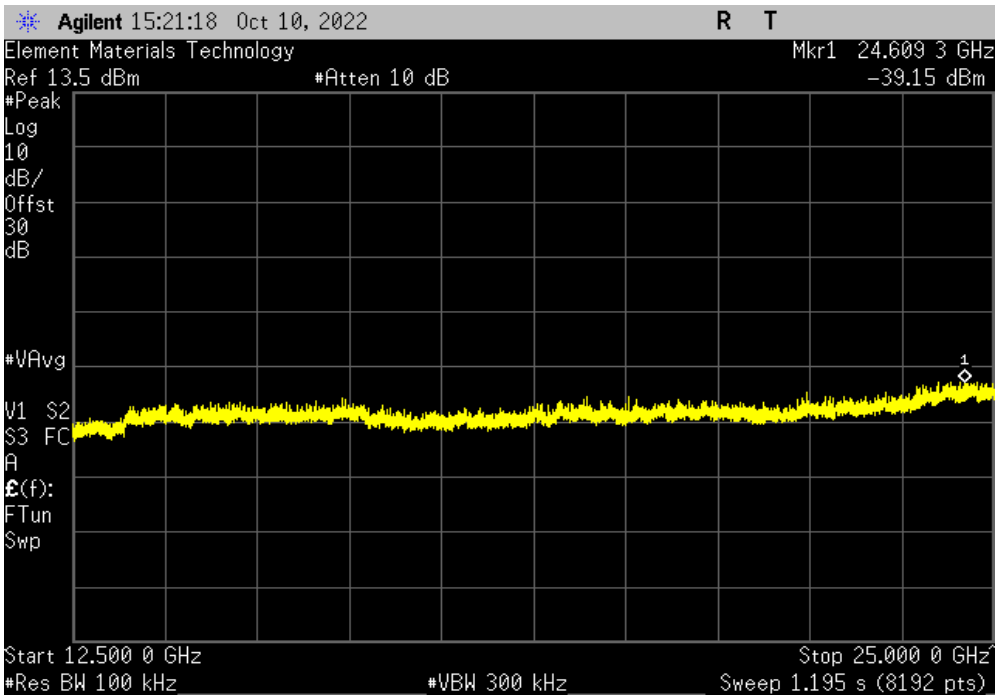
MIMO - Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2466.99	N/A	N/A	N/A



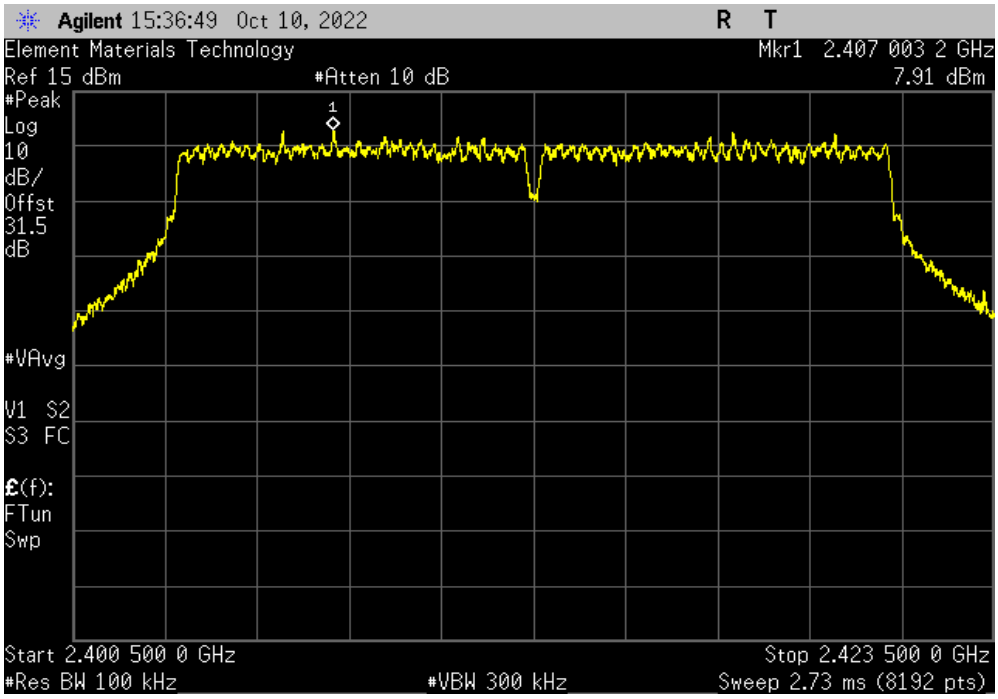
MIMO - Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7060.5	-53.69	-30	Pass



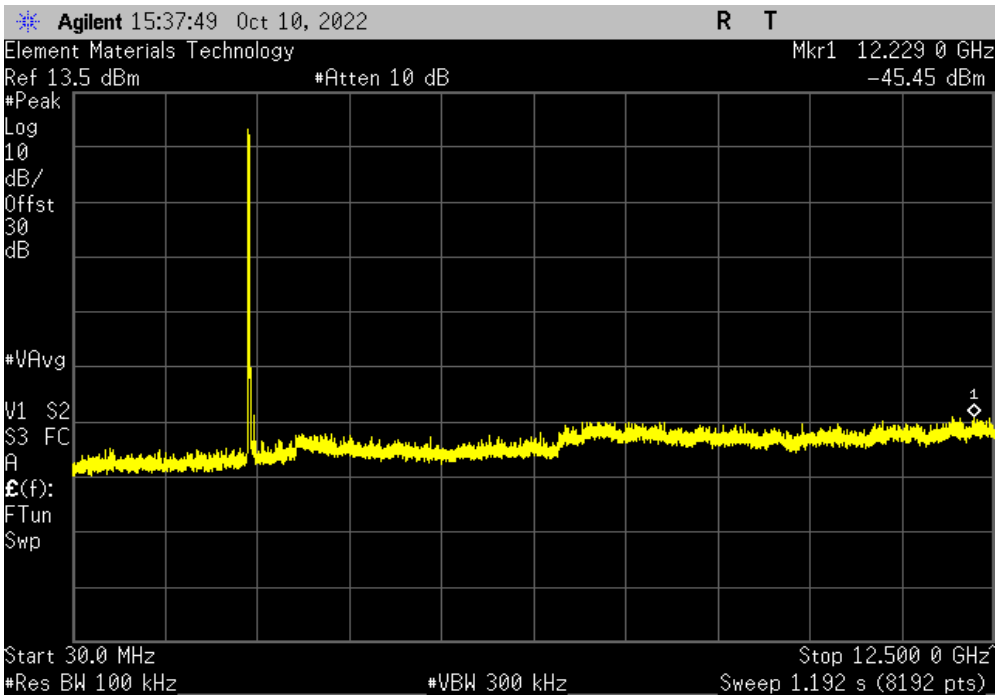
MIMO - Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24609.3	-46.93	-30	Pass



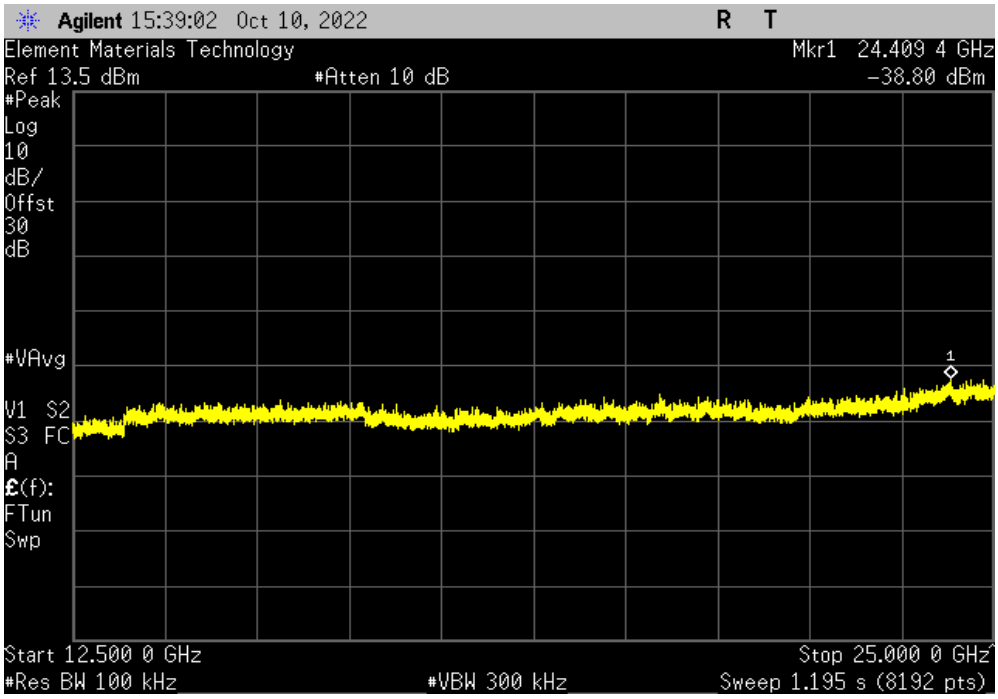
MIMO - Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2407	N/A	N/A	N/A



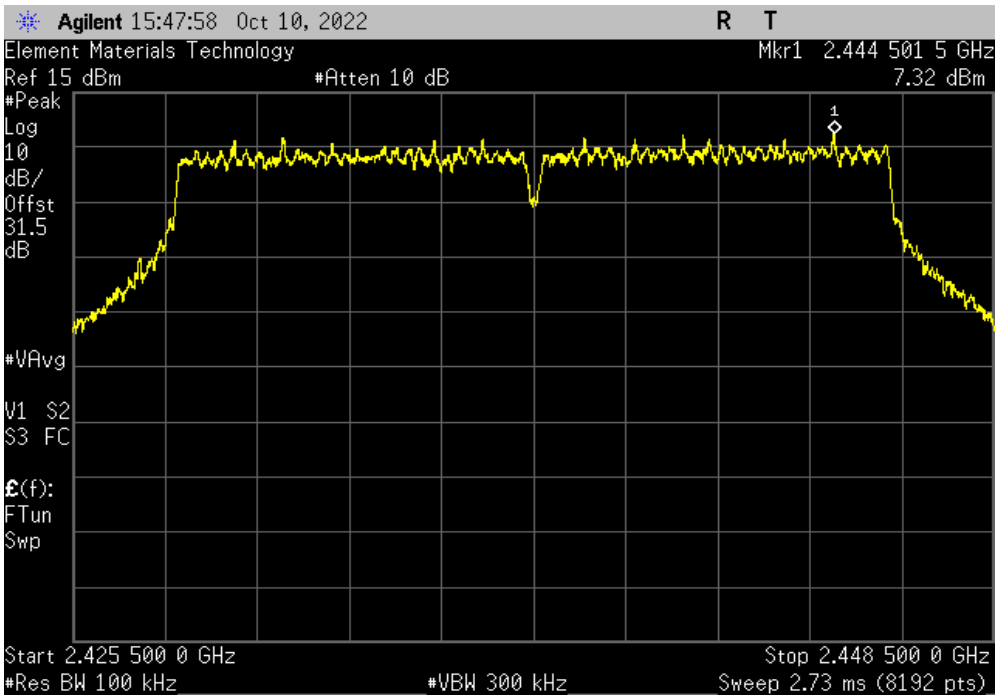
MIMO - Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12229	-53.36	-30	Pass



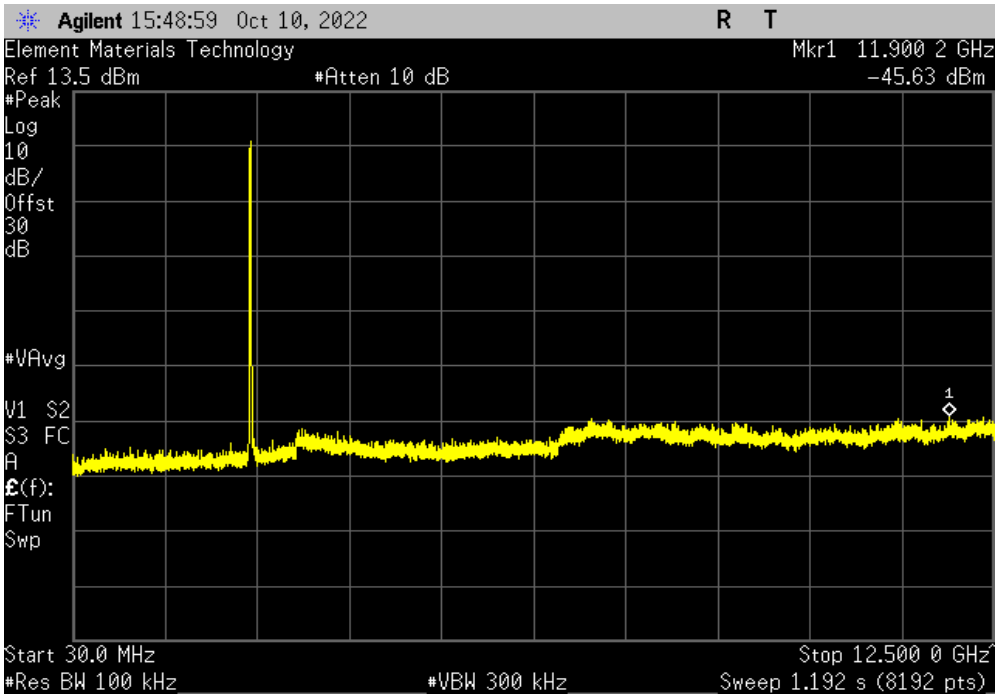
MIMO - Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24409.4	-46.71	-30	Pass



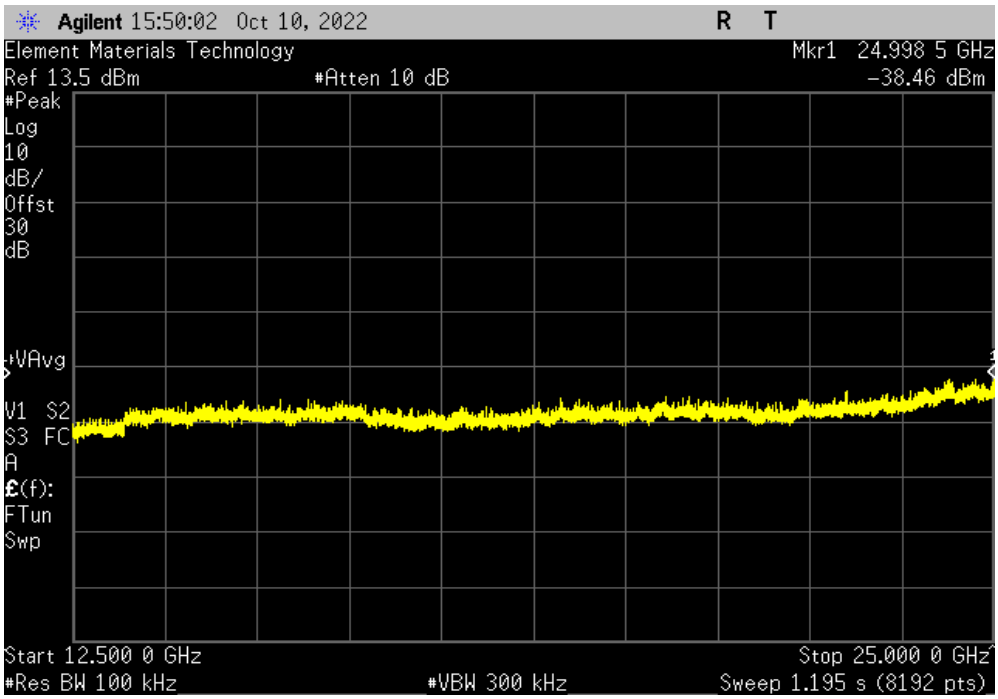
MIMO - Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2444.5	N/A	N/A	N/A



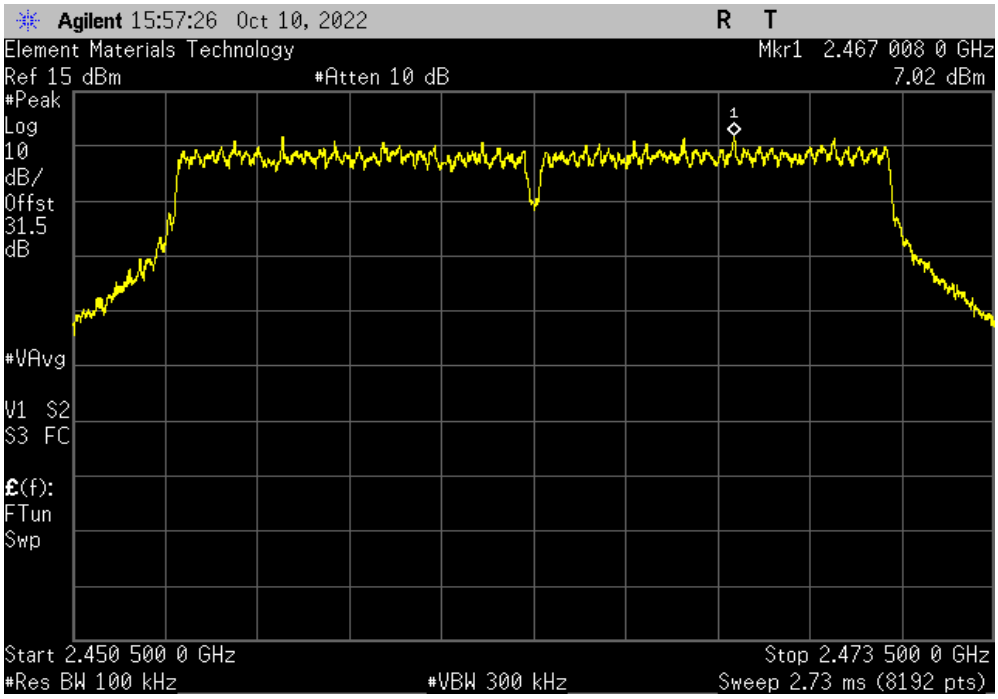
MIMO - Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11900.2	-52.96	-30	Pass



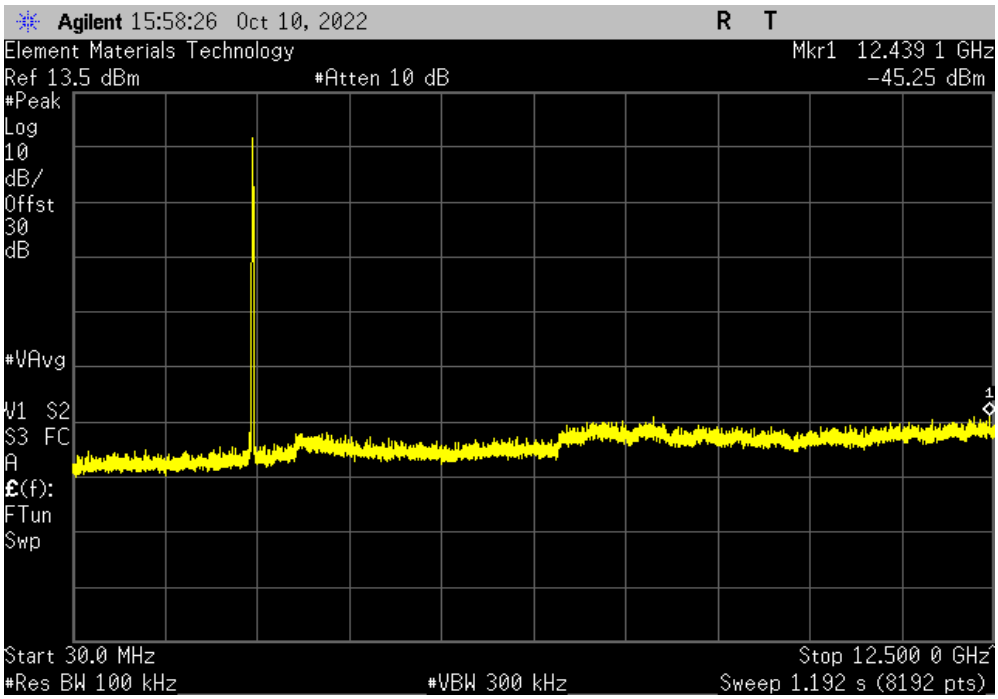
MIMO - Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24998.5	-45.78	-30	Pass



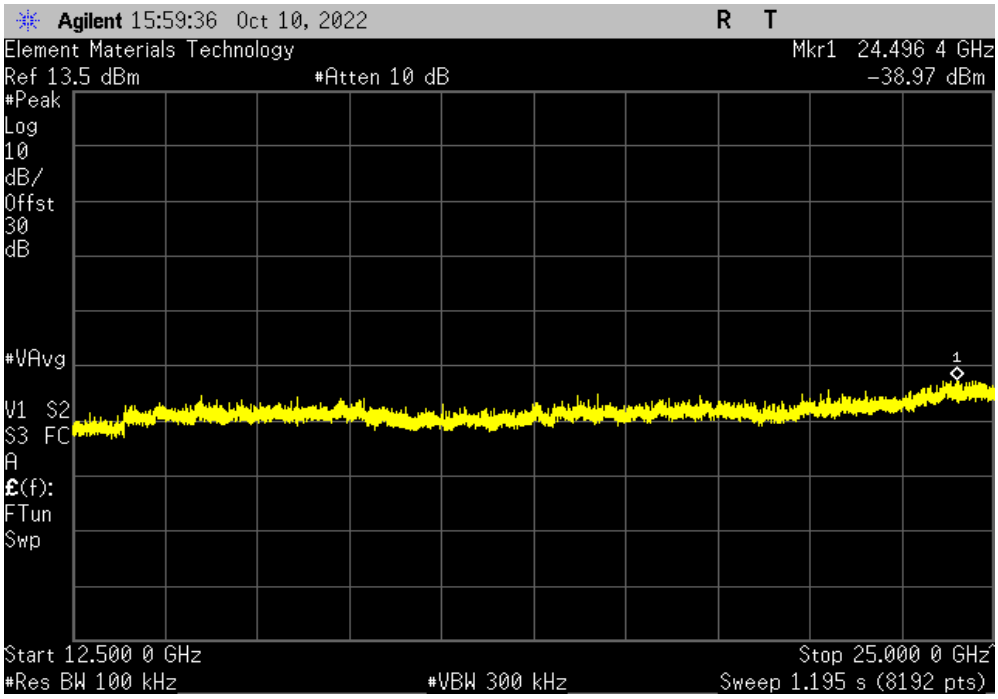
MIMO - Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2467.01	N/A	N/A	N/A



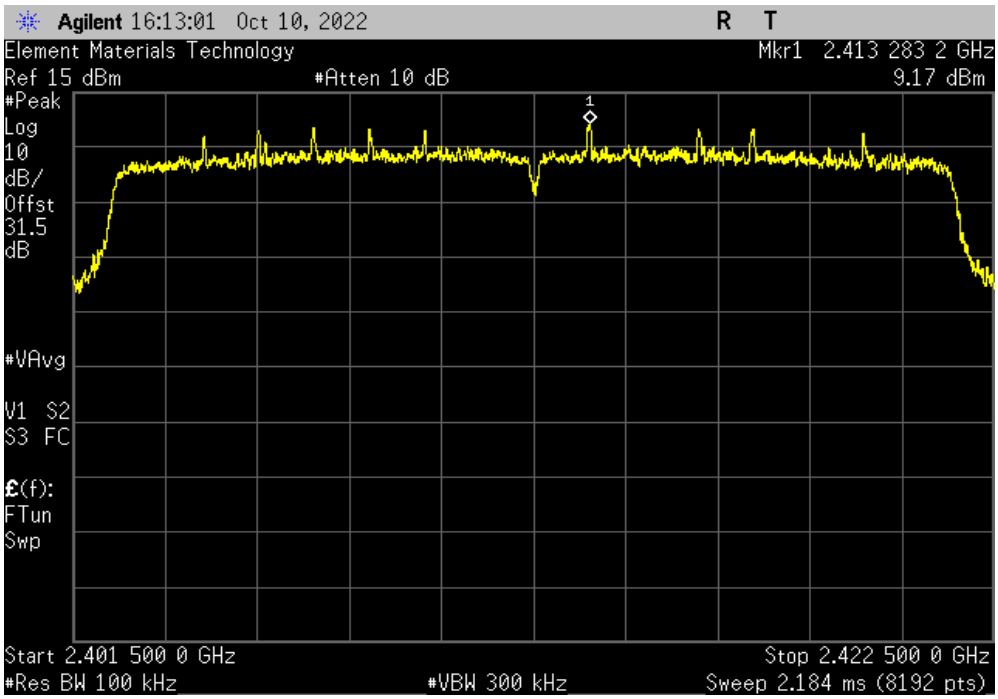
MIMO - Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12439.1	-52.27	-30	Pass



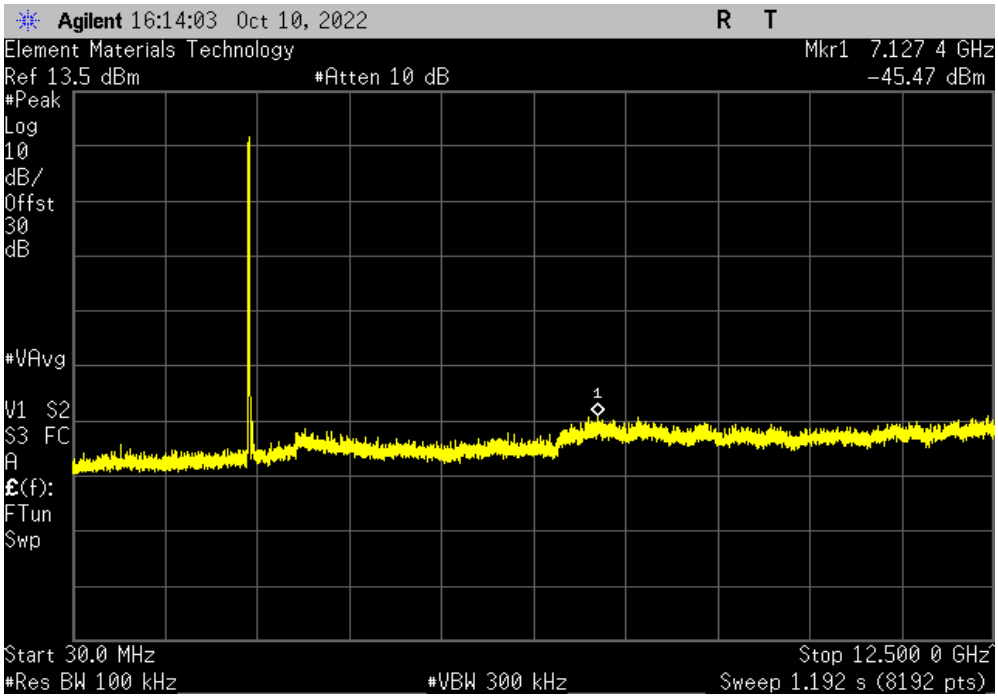
MIMO - Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24496.4	-45.99	-30	Pass



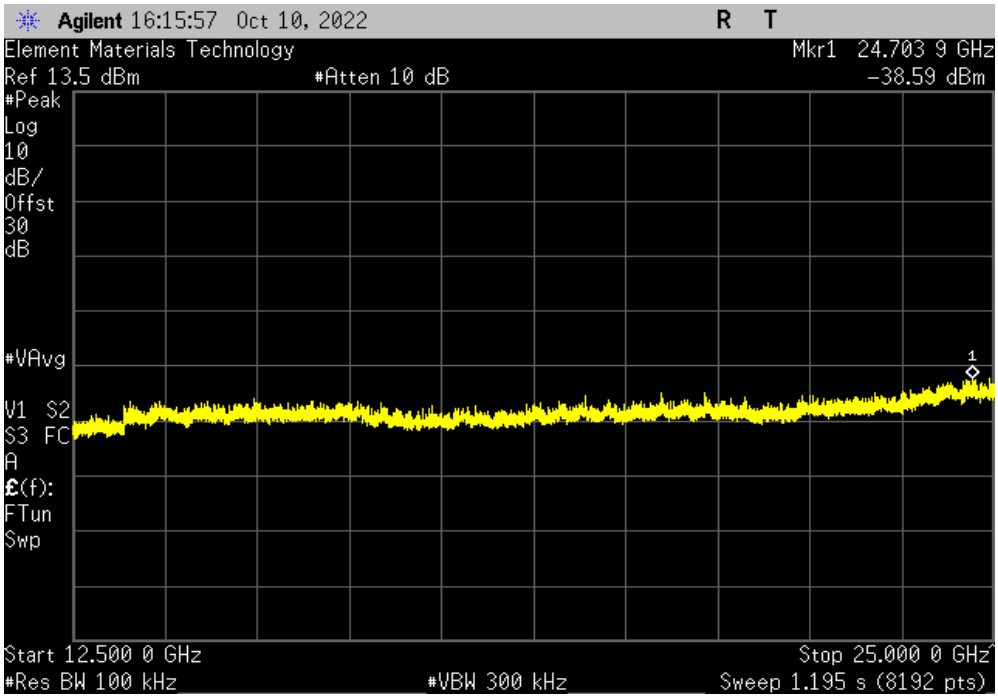
MIMO - Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2413.28	N/A	N/A	N/A



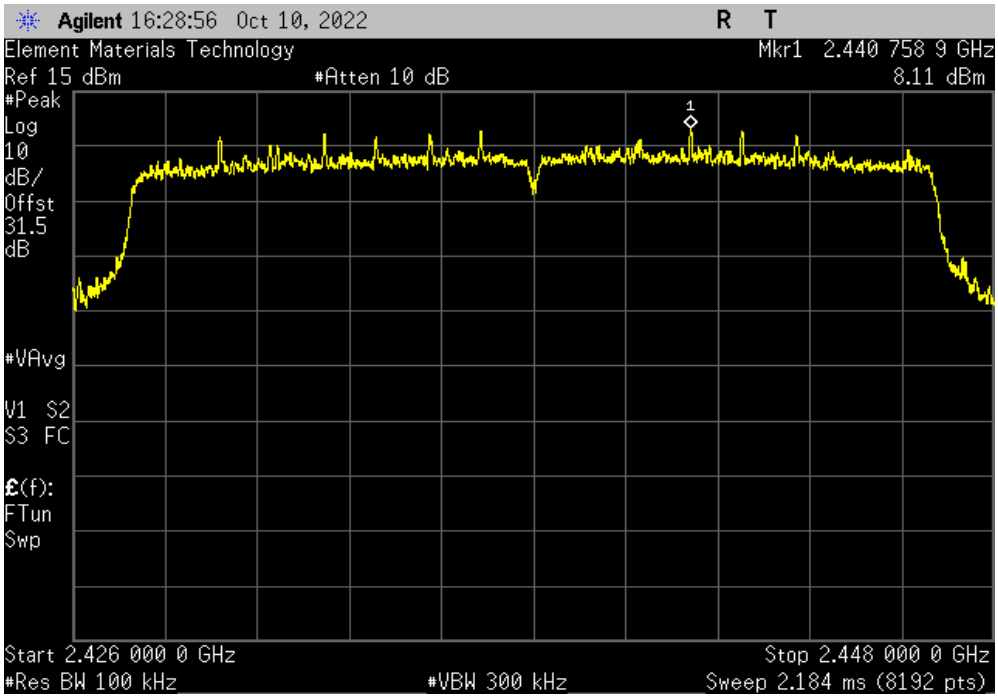
MIMO - Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7127.4	-54.65	-30	Pass



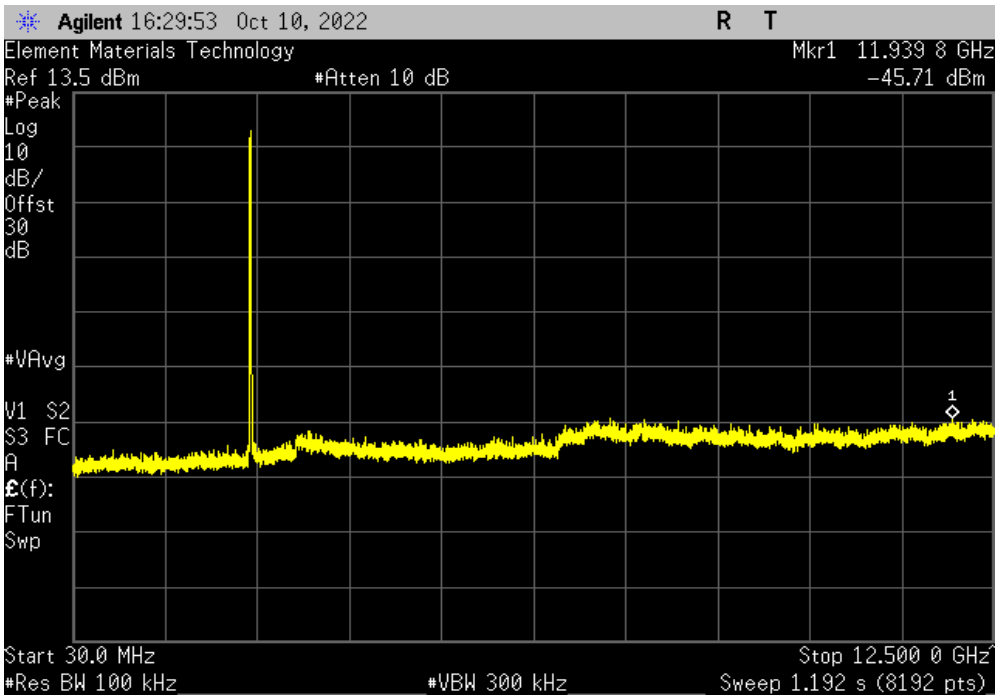
MIMO - Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24703.9	-47.76	-30	Pass



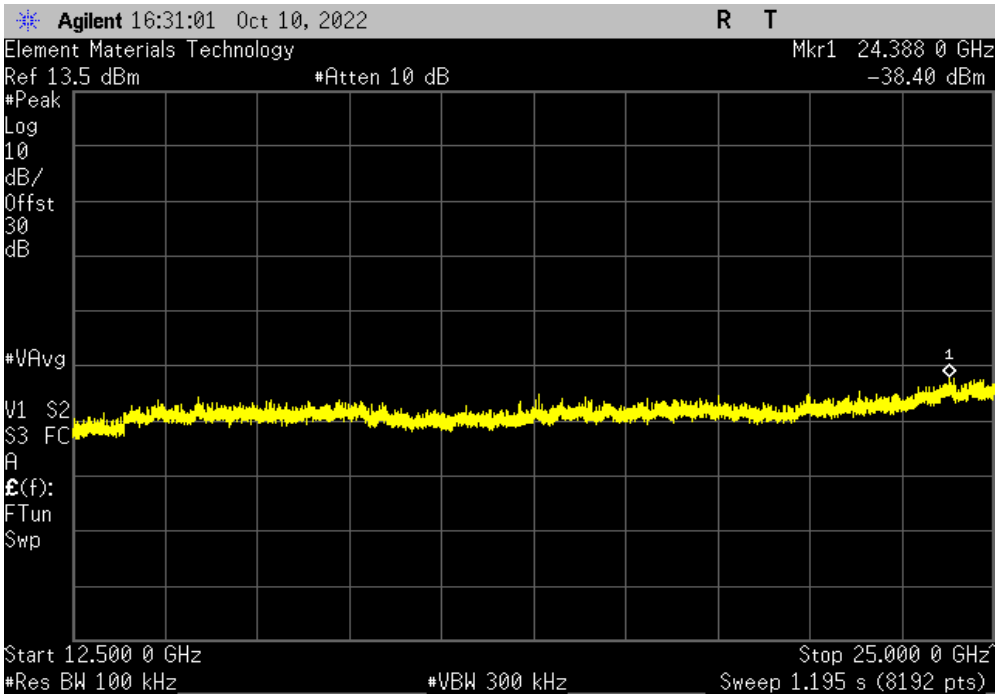
MIMO - Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2440.76	N/A	N/A	N/A



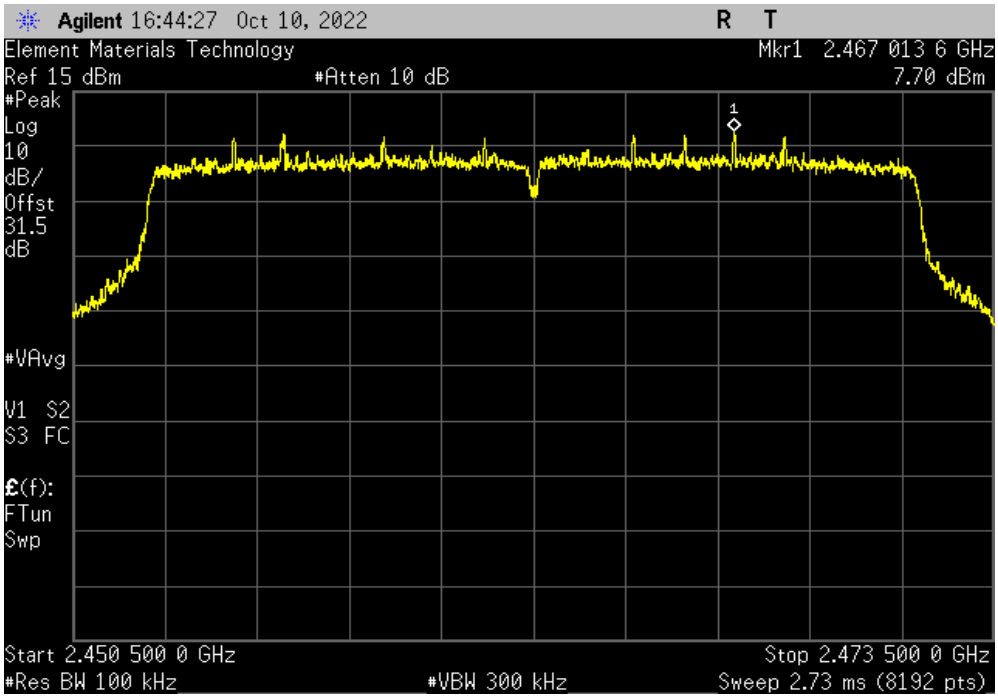
MIMO - Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	11939.8	-53.82	-30	Pass



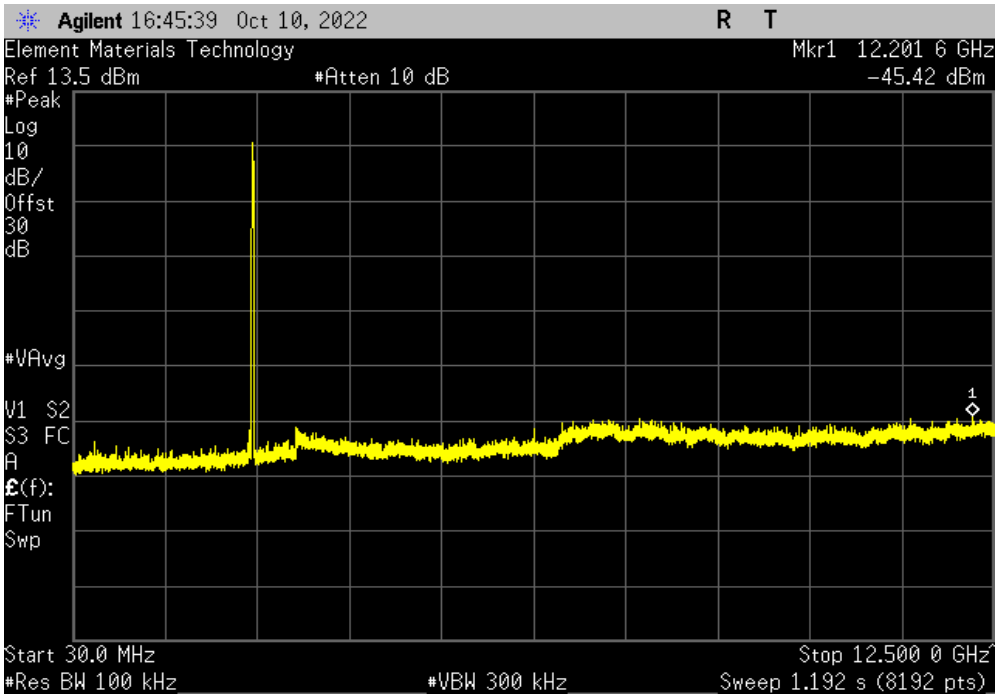
MIMO - Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24388	-46.51	-30	Pass



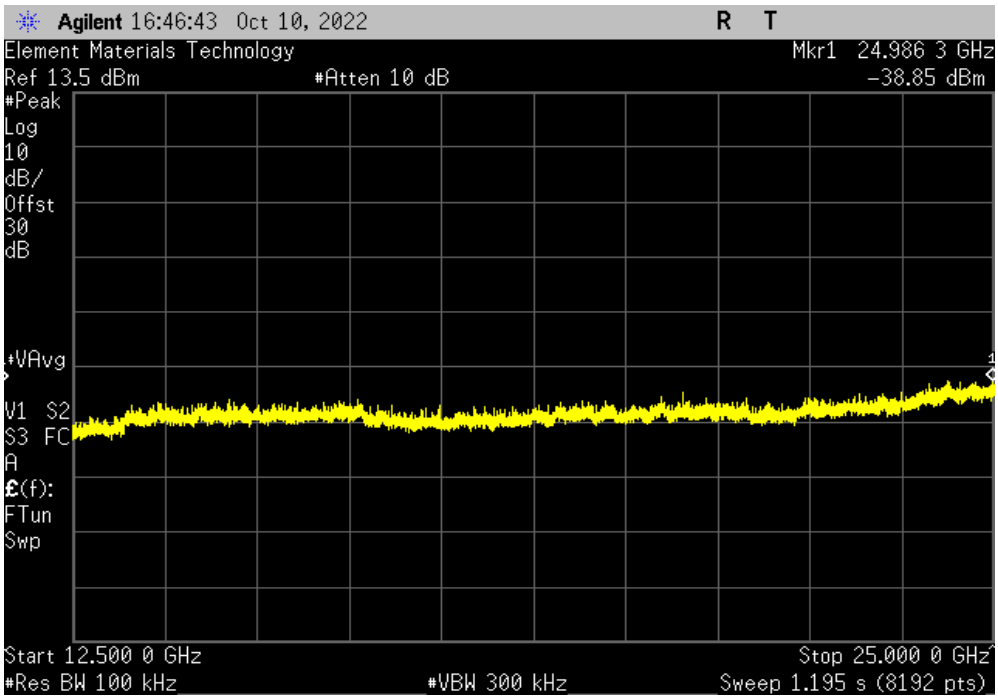
MIMO - Chain 0, HE20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2467.01	N/A	N/A	N/A



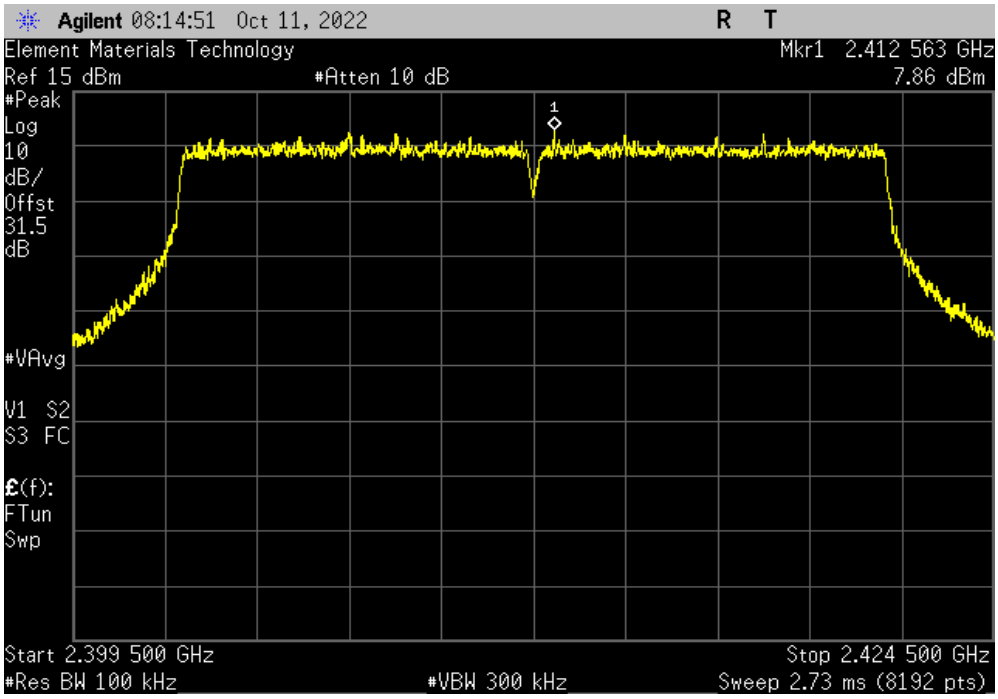
MIMO - Chain 0, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12201.6	-53.12	-30	Pass



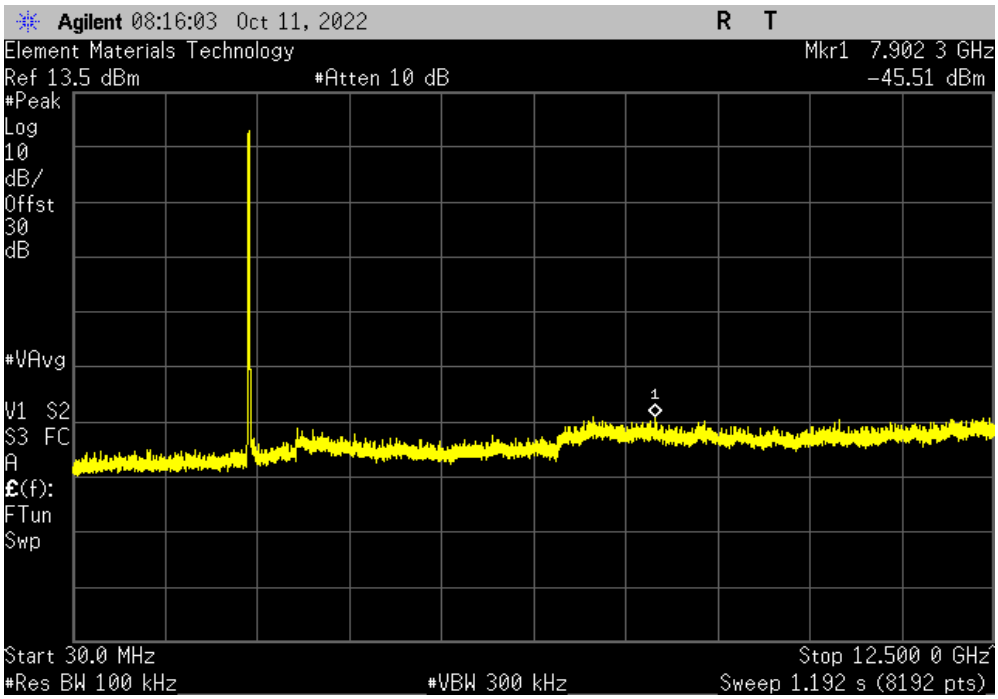
MIMO - Chain 0, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24986.3	-46.56	-30	Pass



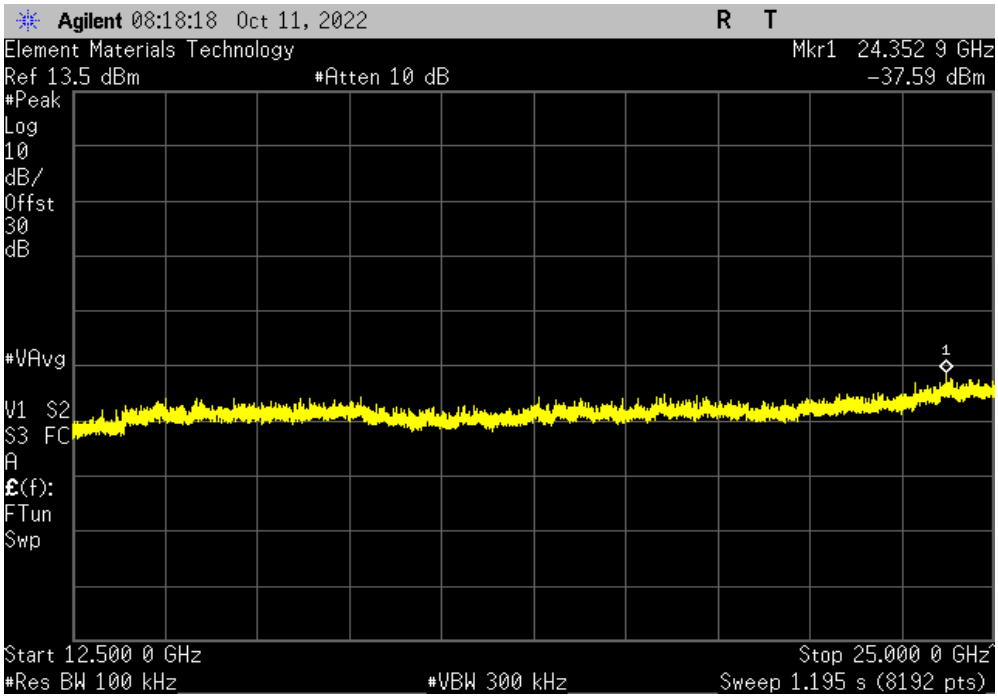
MIMO - Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2412.56	N/A	N/A	N/A



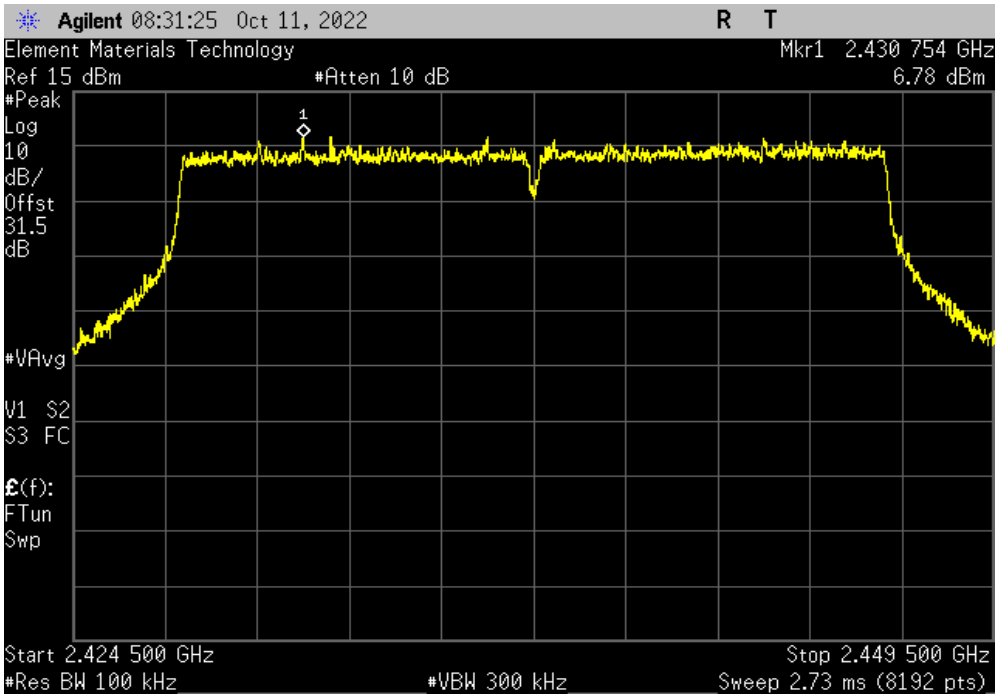
MIMO - Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7902.3	-53.37	-30	Pass



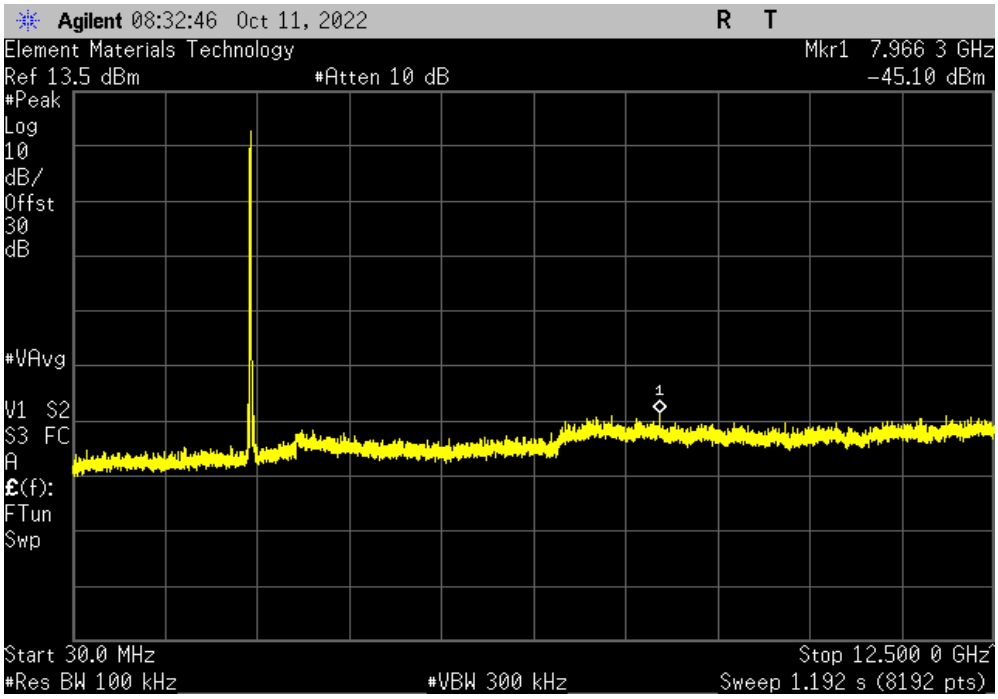
MIMO - Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24352.9	-45.45	-30	Pass



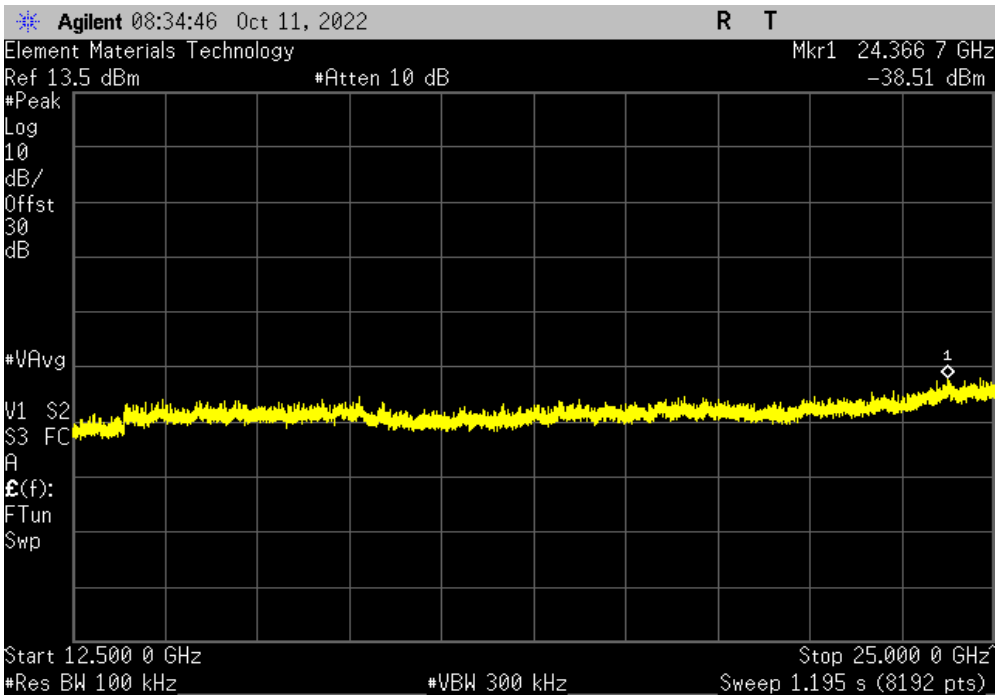
MIMO - Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2430.75	N/A	N/A	N/A



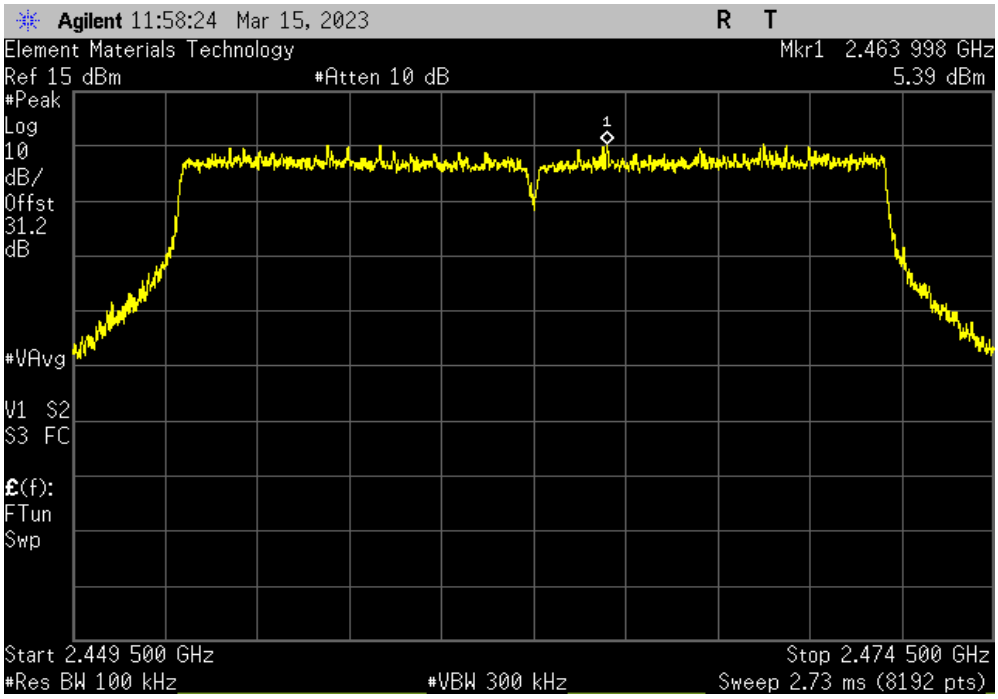
MIMO - Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7966.3	-51.88	-30	Pass



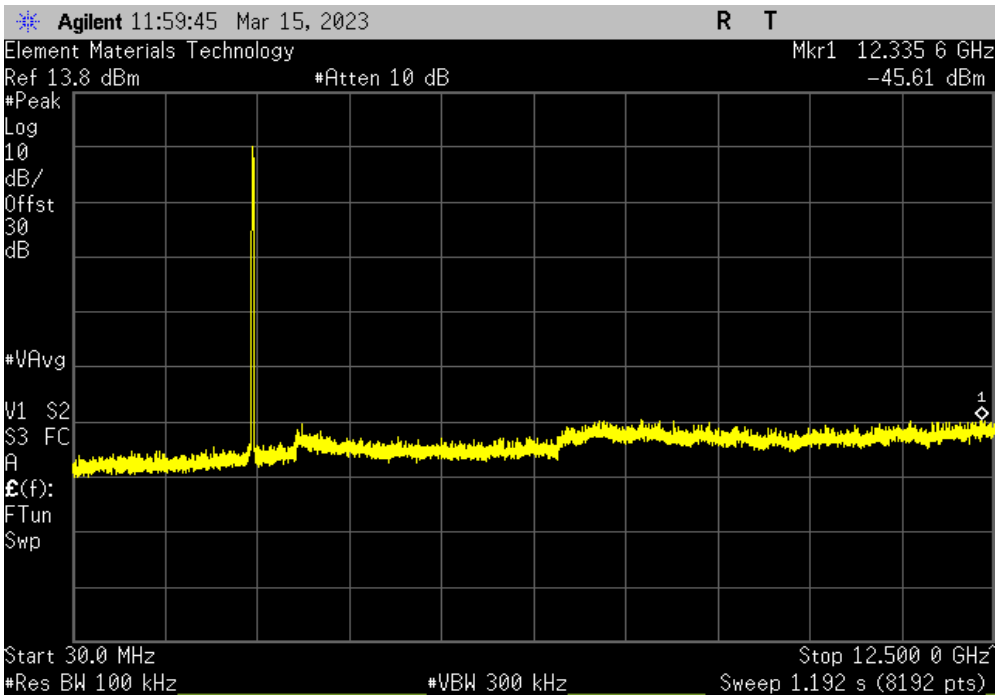
MIMO - Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24366.7	-45.29	-30	Pass



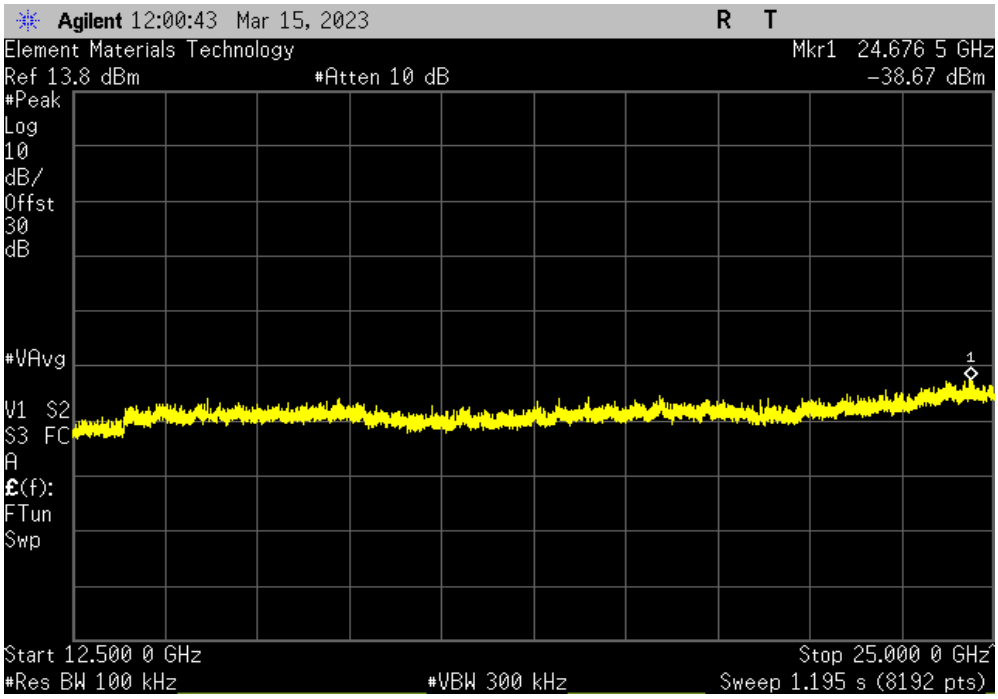
MIMO - Chain 0, HE20, MCS11, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2464	N/A	N/A	N/A



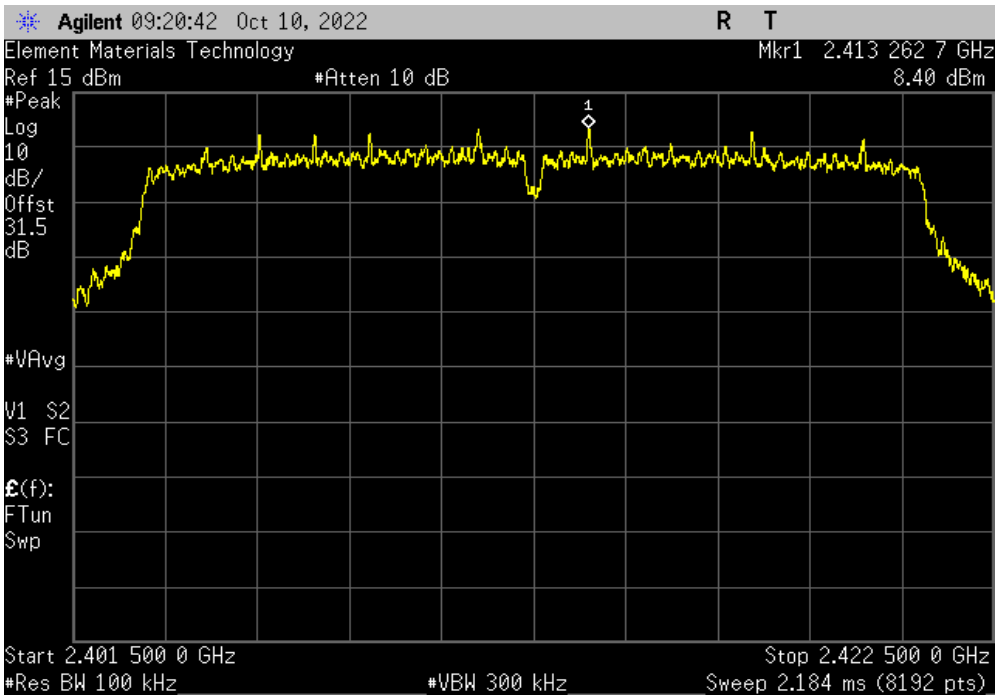
MIMO - Chain 0, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12335.6	-51.01	-30	Pass



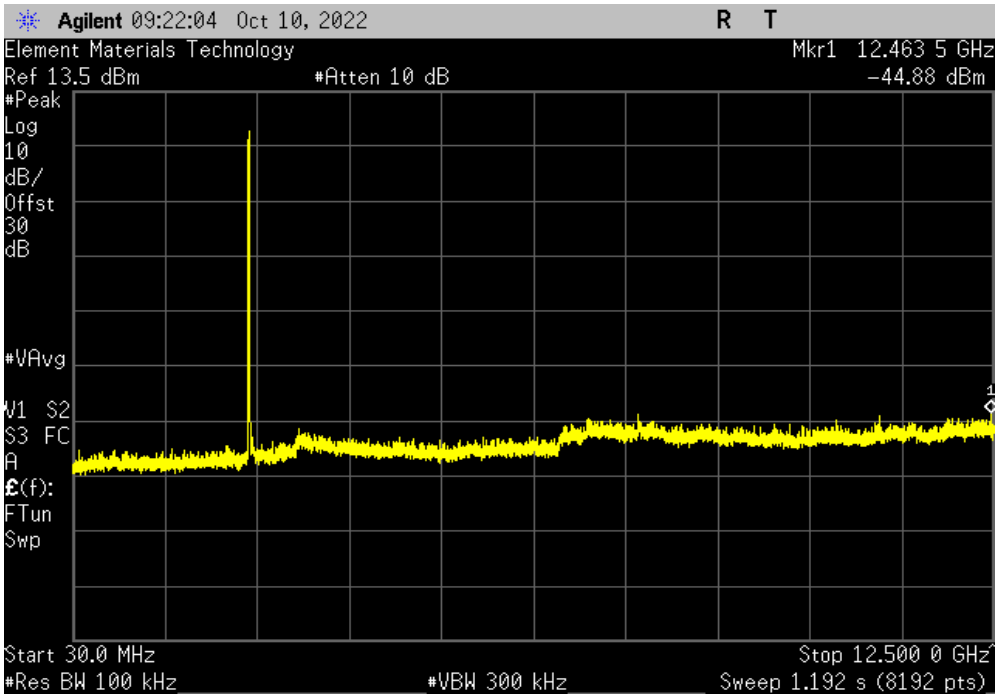
MIMO - Chain 0, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24676.5	-44.07	-30	Pass



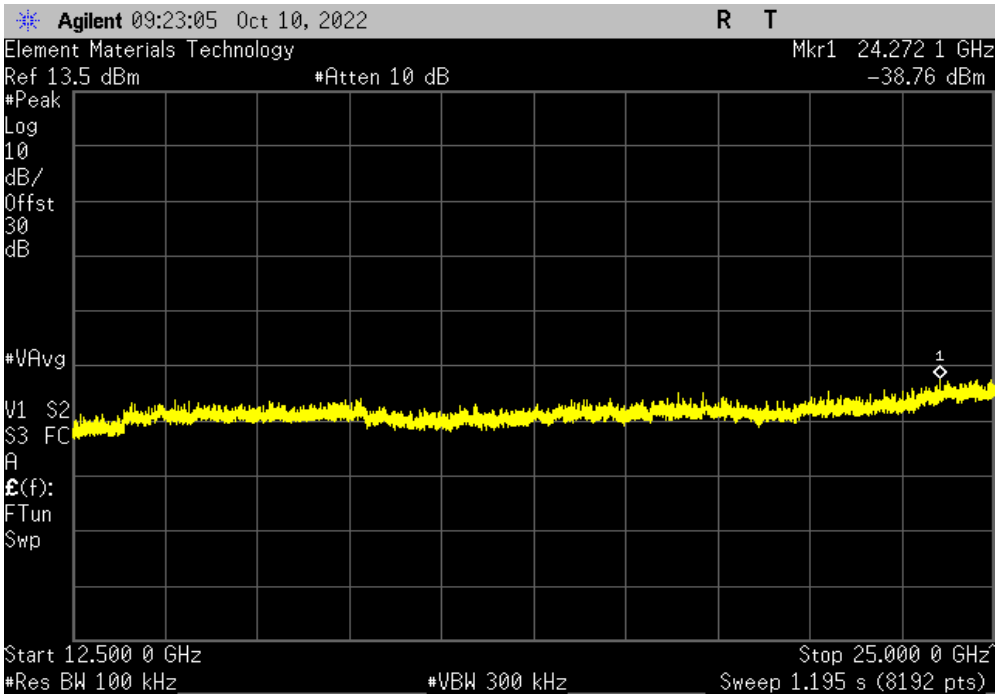
MIMO - Chain 1, HT20, MCS8, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2413.26	N/A	N/A	N/A



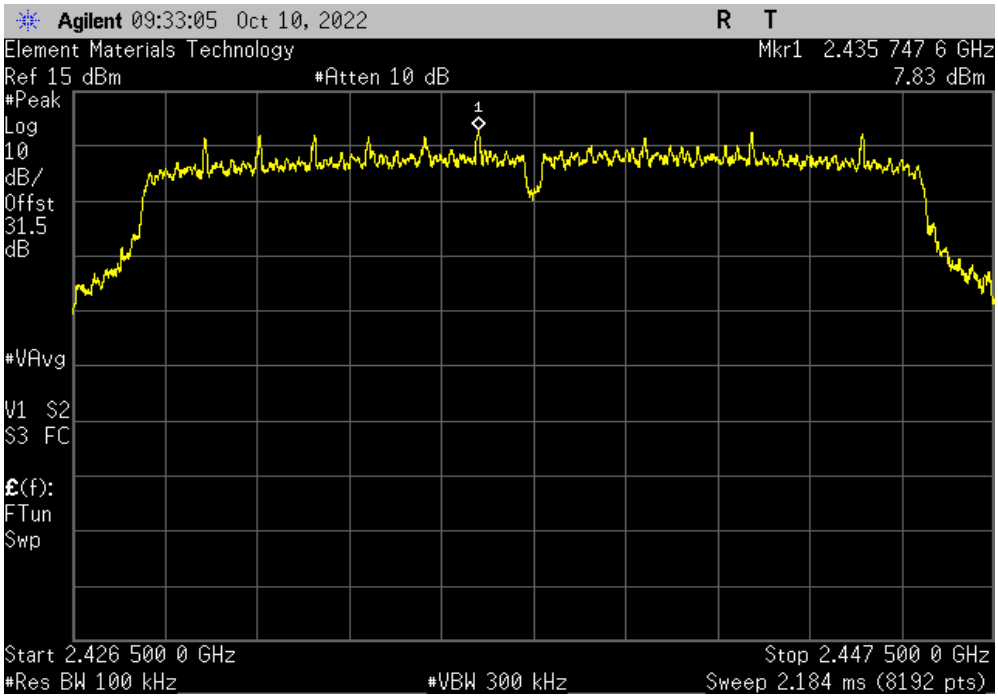
MIMO - Chain 1, HT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12463.5	-53.28	-30	Pass



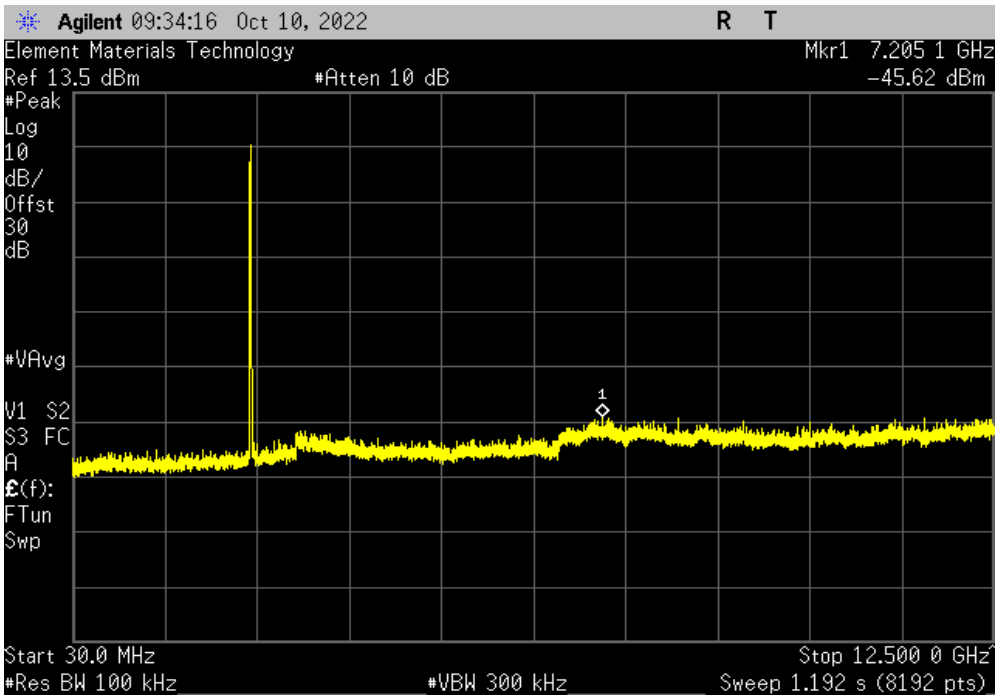
MIMO - Chain 1, HT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24272.1	-47.16	-30	Pass



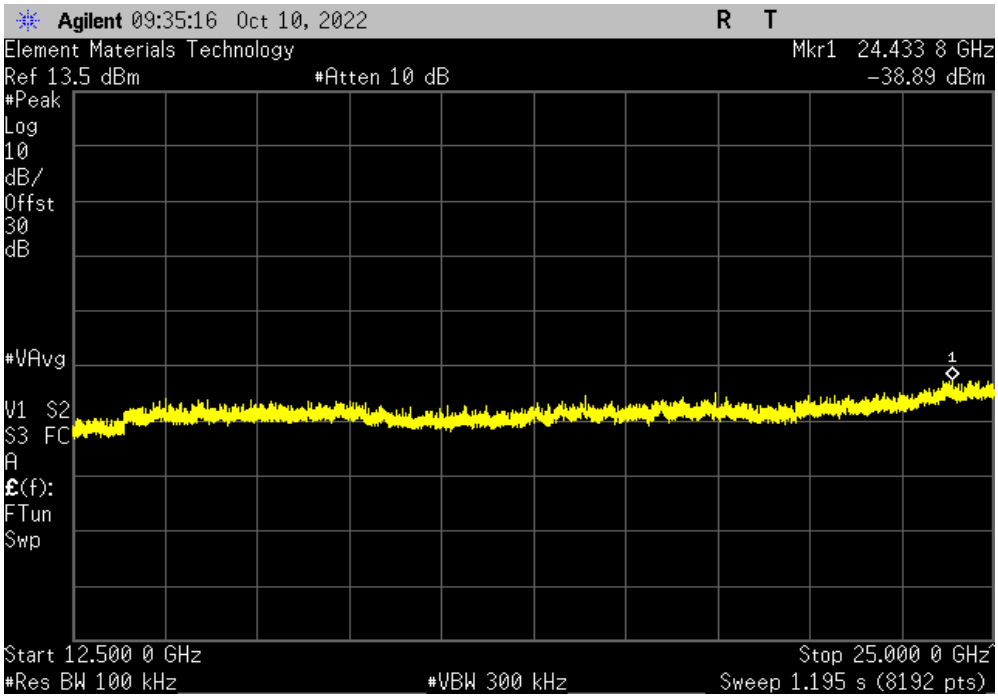
MIMO - Chain 1, HT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2435.75	N/A	N/A	N/A



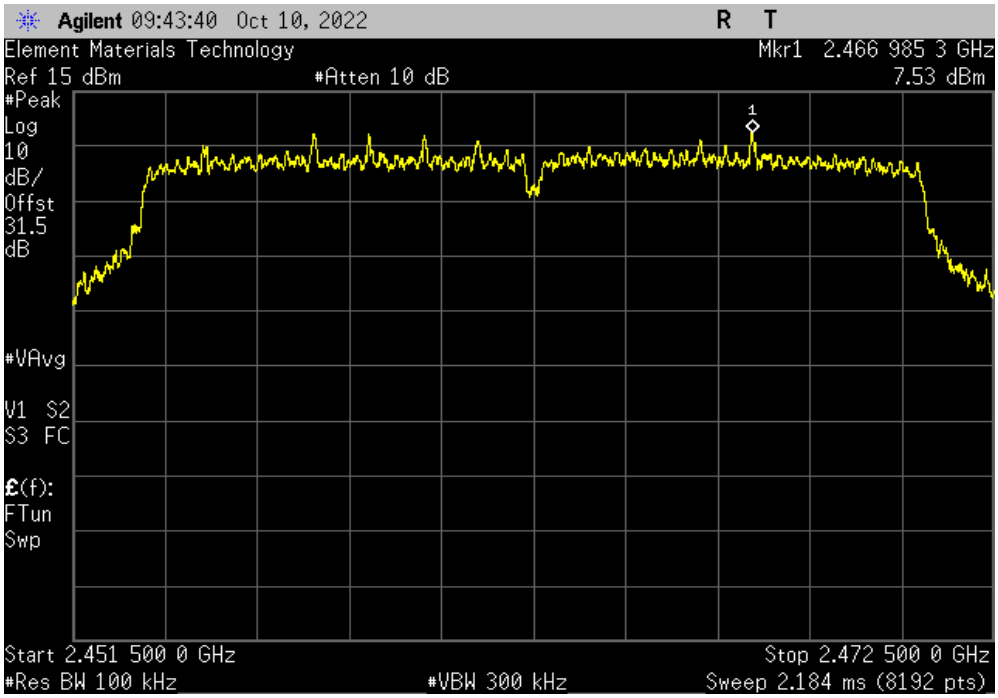
MIMO - Chain 1, HT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7205.1	-53.45	-30	Pass



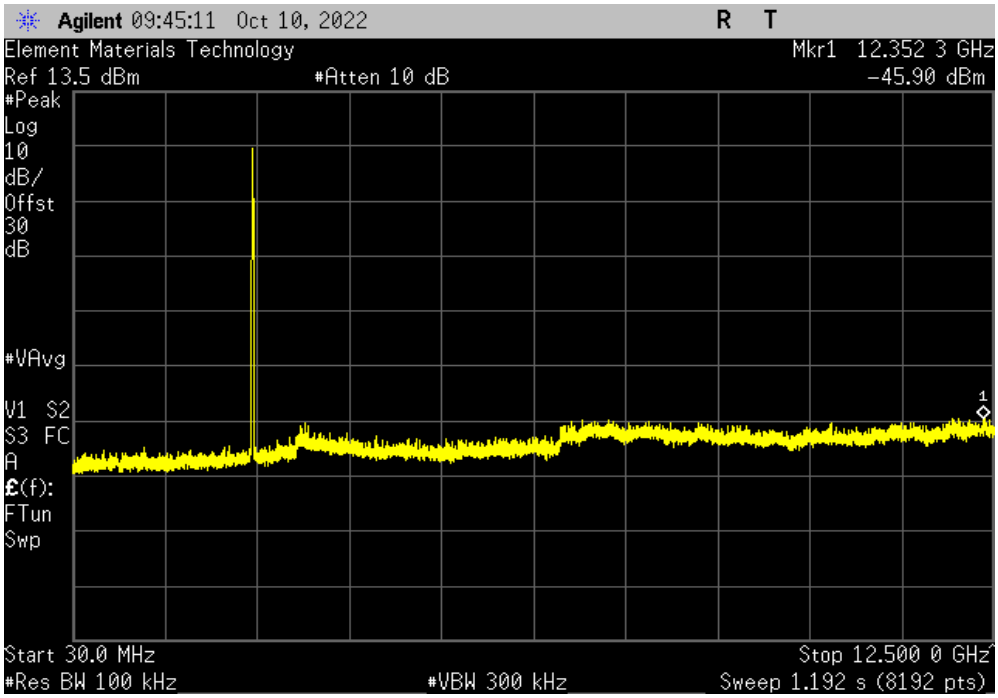
MIMO - Chain 1, HT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24433.8	-46.72	-30	Pass



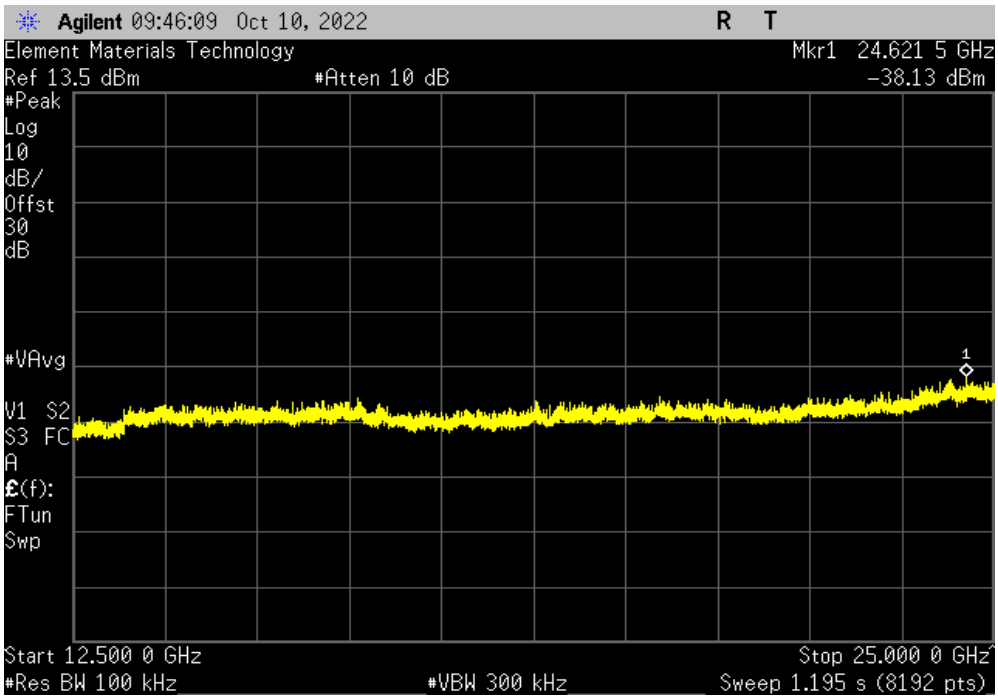
MIMO - Chain 1, HT20, MCS8, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2466.99	N/A	N/A	N/A



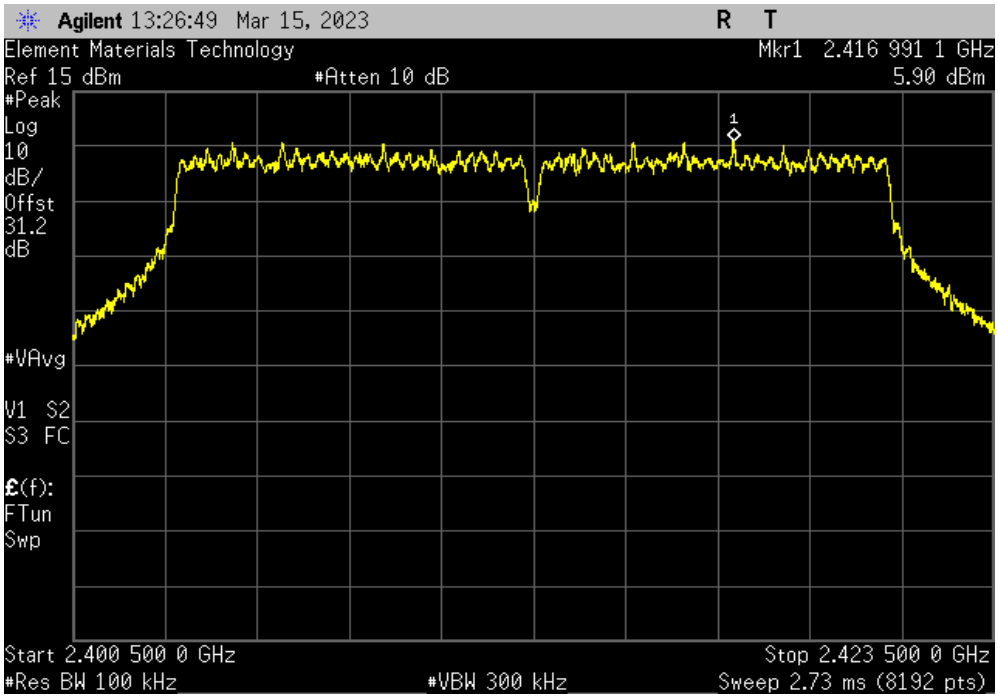
MIMO - Chain 1, HT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12352.3	-53.43	-30	Pass



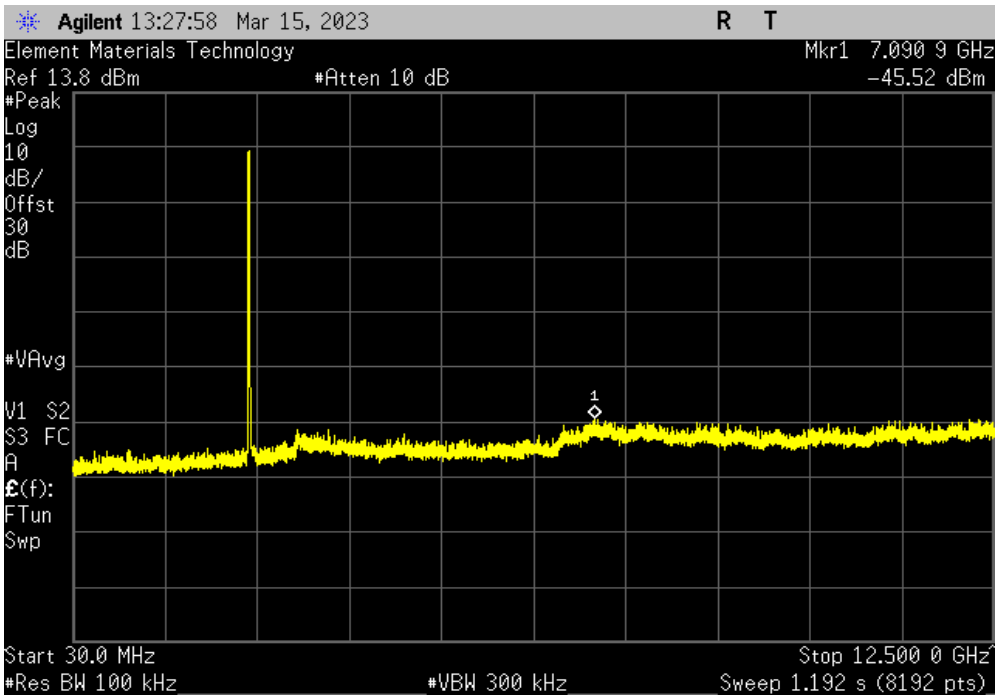
MIMO - Chain 1, HT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24621.5	-45.66	-30	Pass



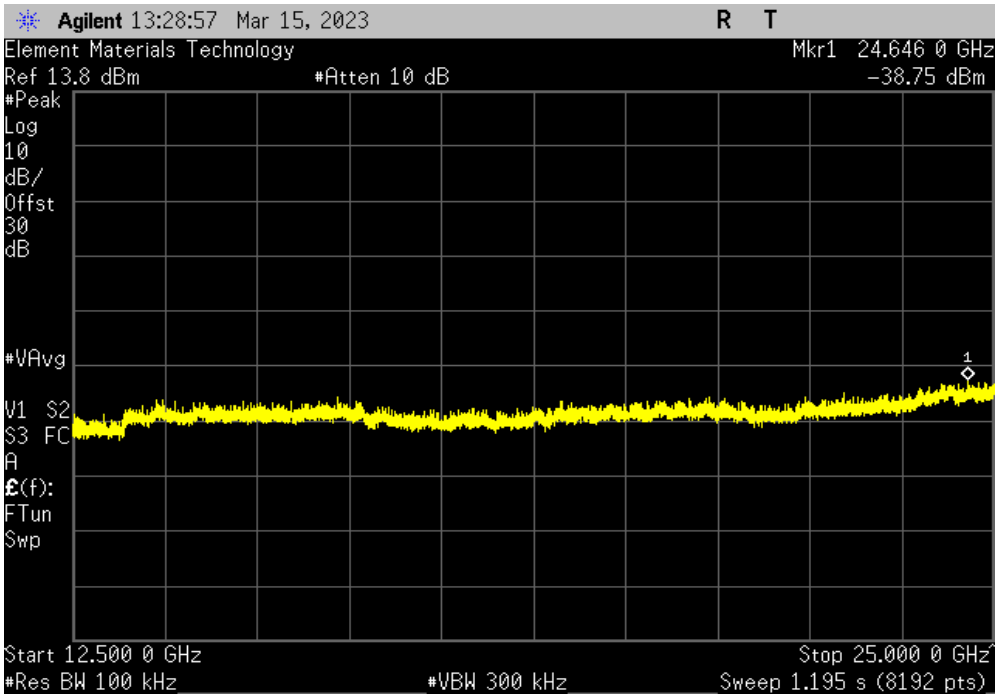
MIMO - Chain 1, HT20, MCS15, Low Channel 1, 2412 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2416.99	N/A	N/A	N/A



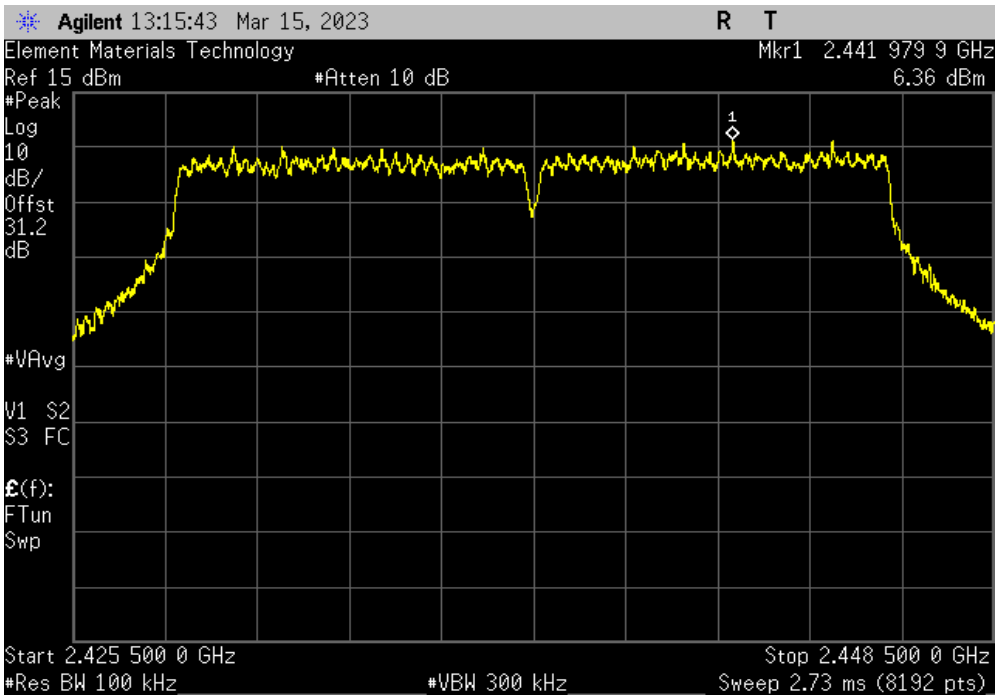
MIMO - Chain 1, HT20, MCS15, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7090.9	-51.42	-30	Pass



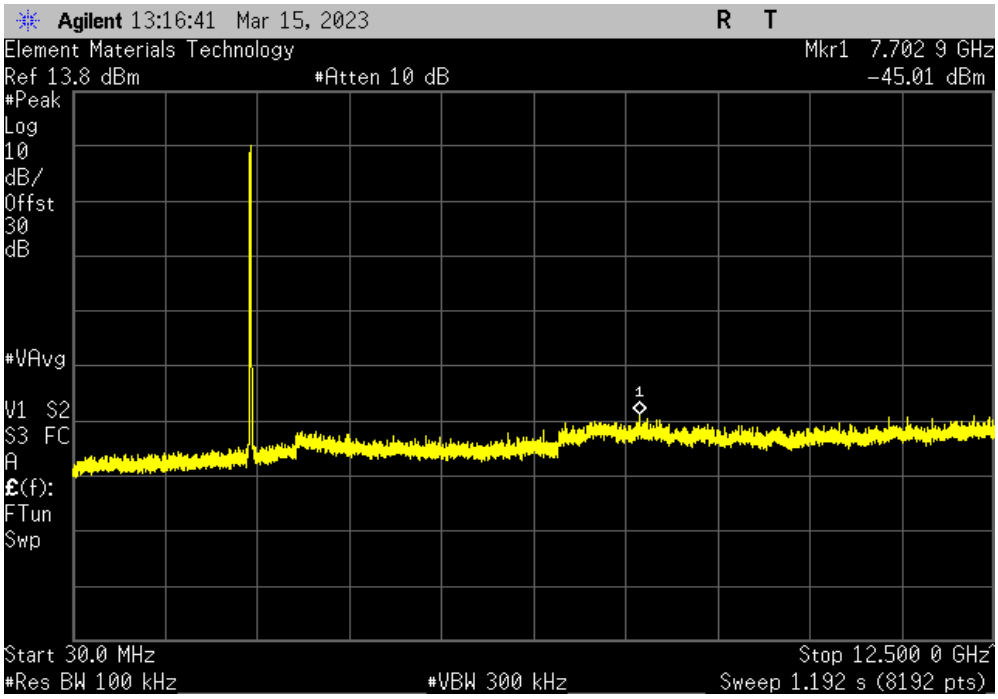
MIMO - Chain 1, HT20, MCS15, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24646	-44.65	-30	Pass



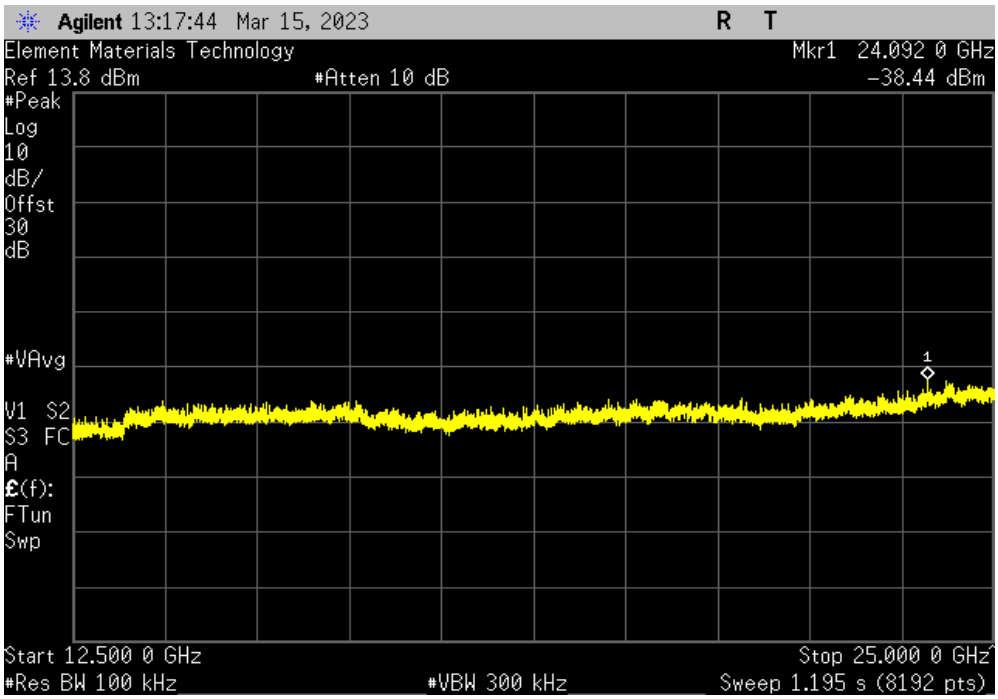
MIMO - Chain 1, HT20, MCS15, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2441.98	N/A	N/A	N/A



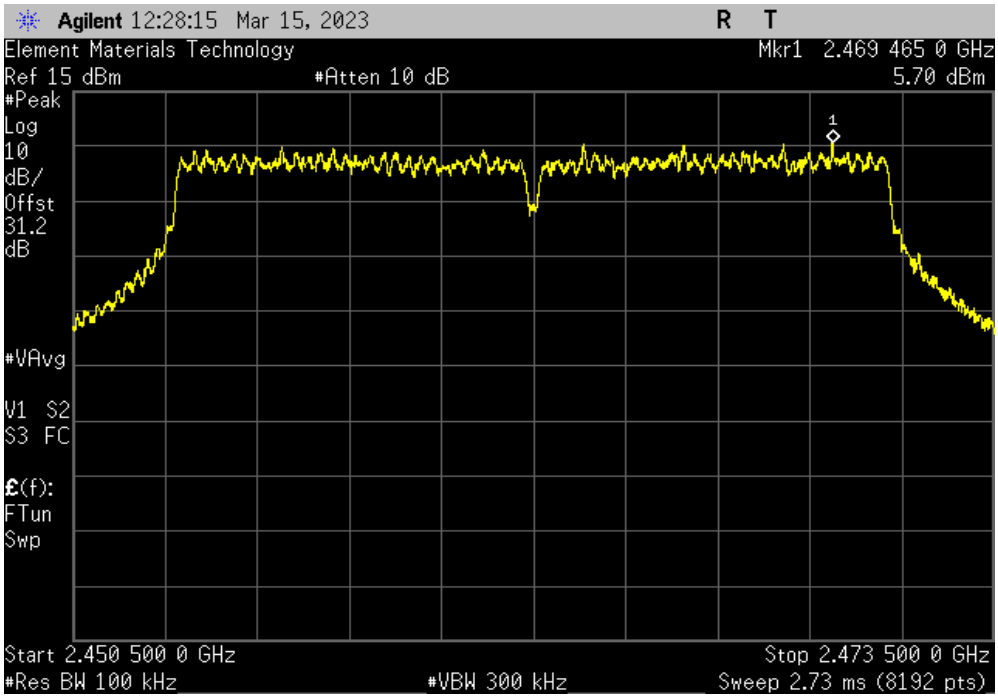
MIMO - Chain 1, HT20, MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7702.9	-51.37	-30	Pass



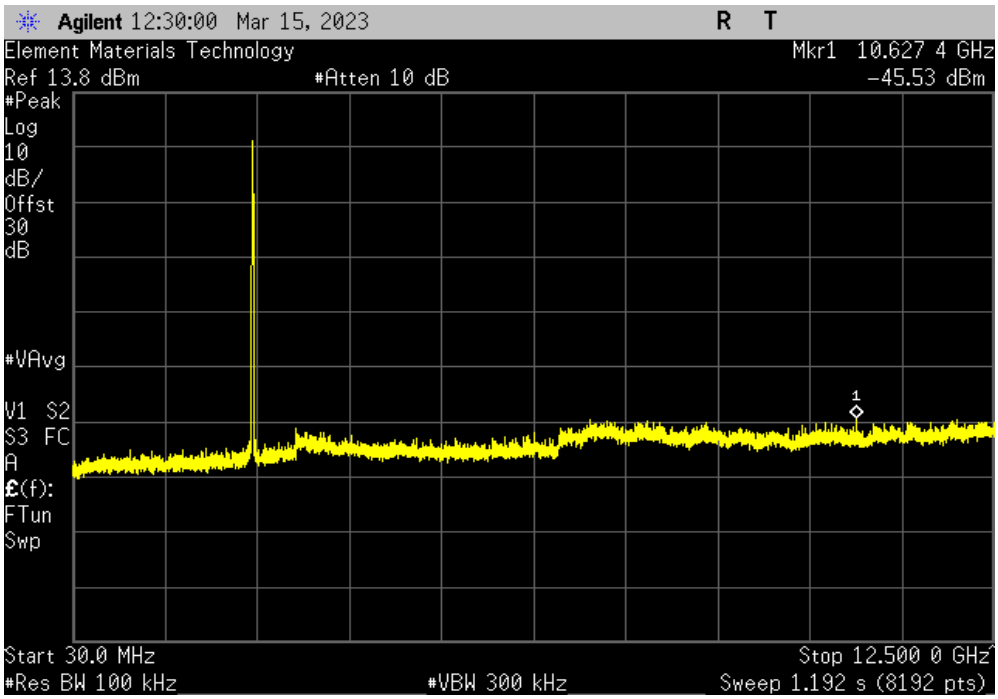
MIMO - Chain 1, HT20, MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24092	-44.8	-30	Pass



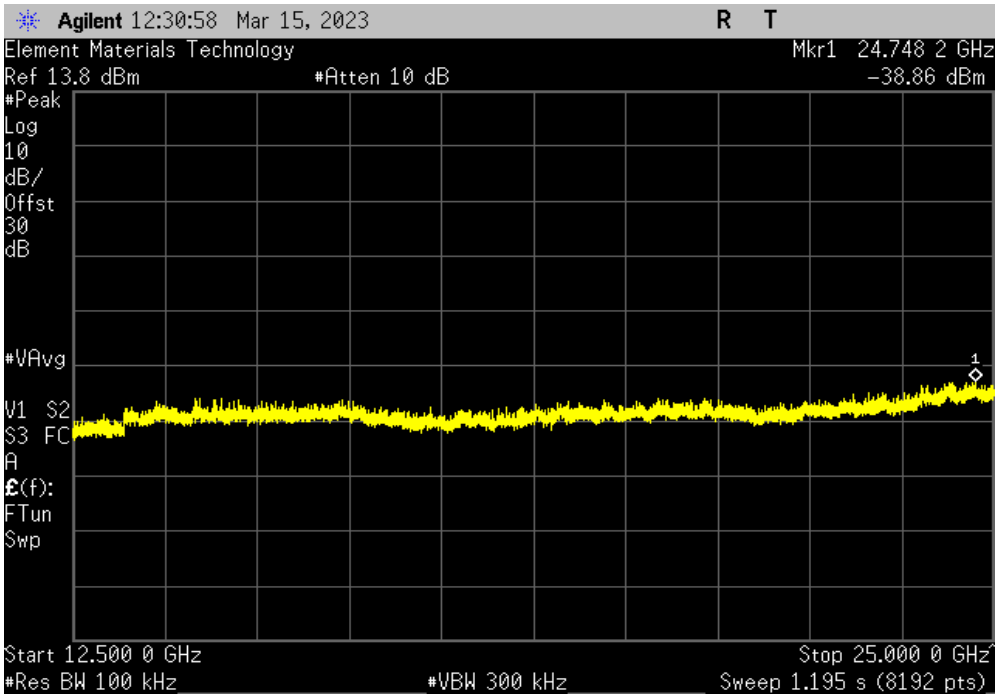
MIMO - Chain 1, HT20, MCS15, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2469.47	N/A	N/A	N/A



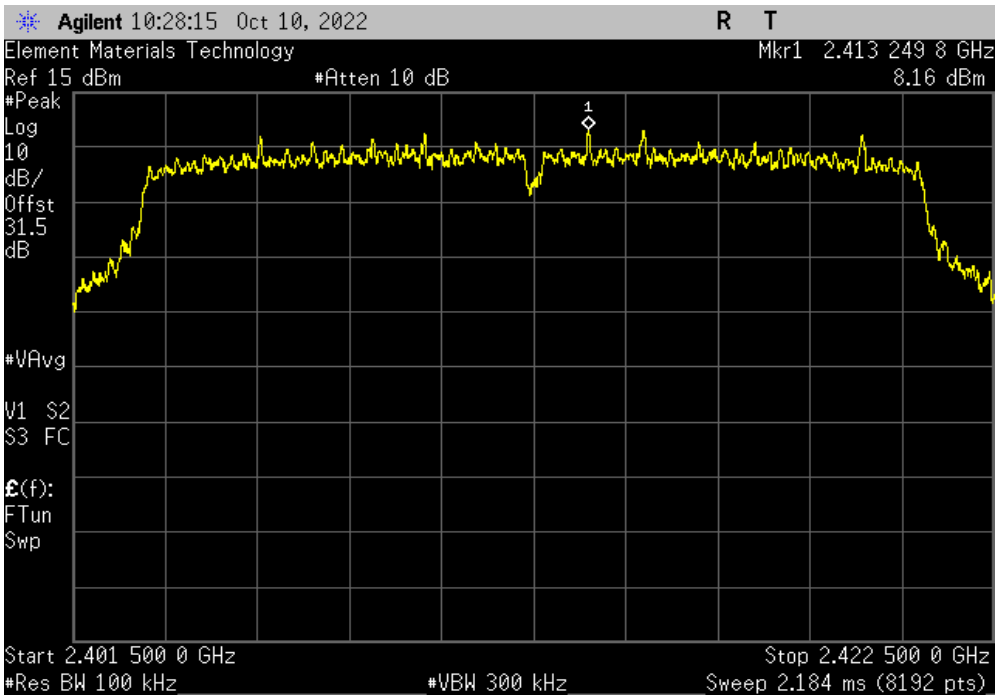
MIMO - Chain 1, HT20, MCS15, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	10627.4	-51.23	-30	Pass



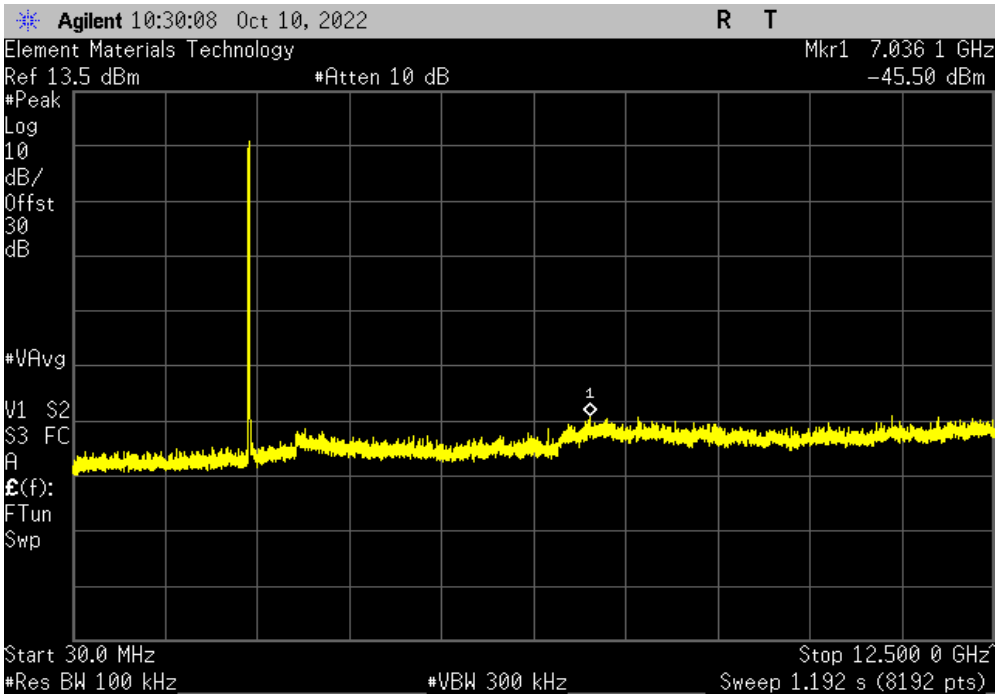
MIMO - Chain 1, HT20, MCS15, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24748.2	-44.56	-30	Pass



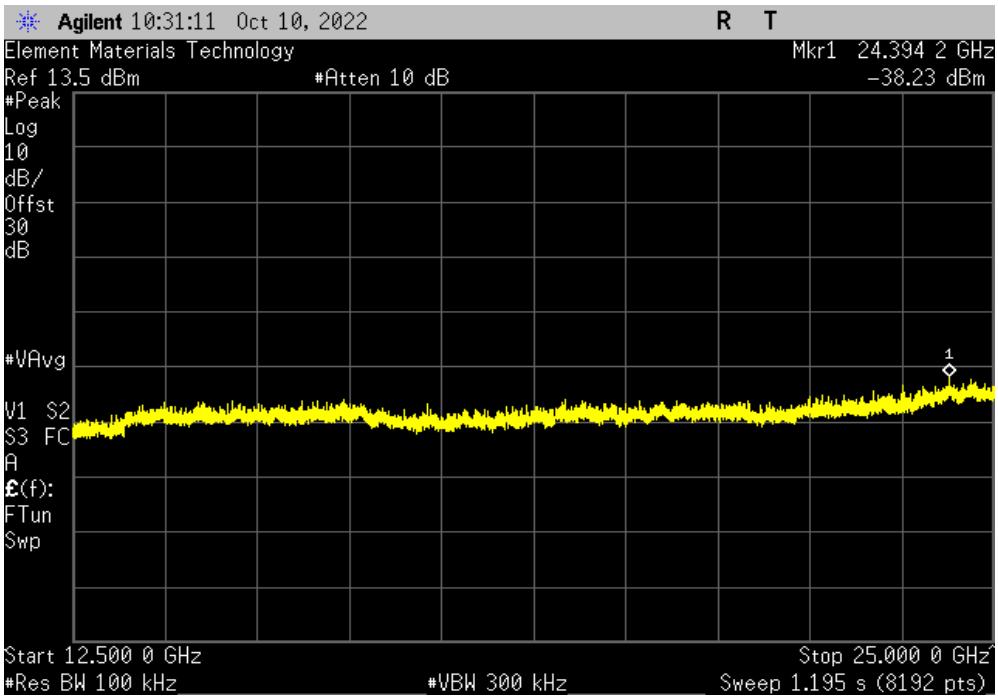
MIMO - Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2413.25	N/A	N/A	N/A



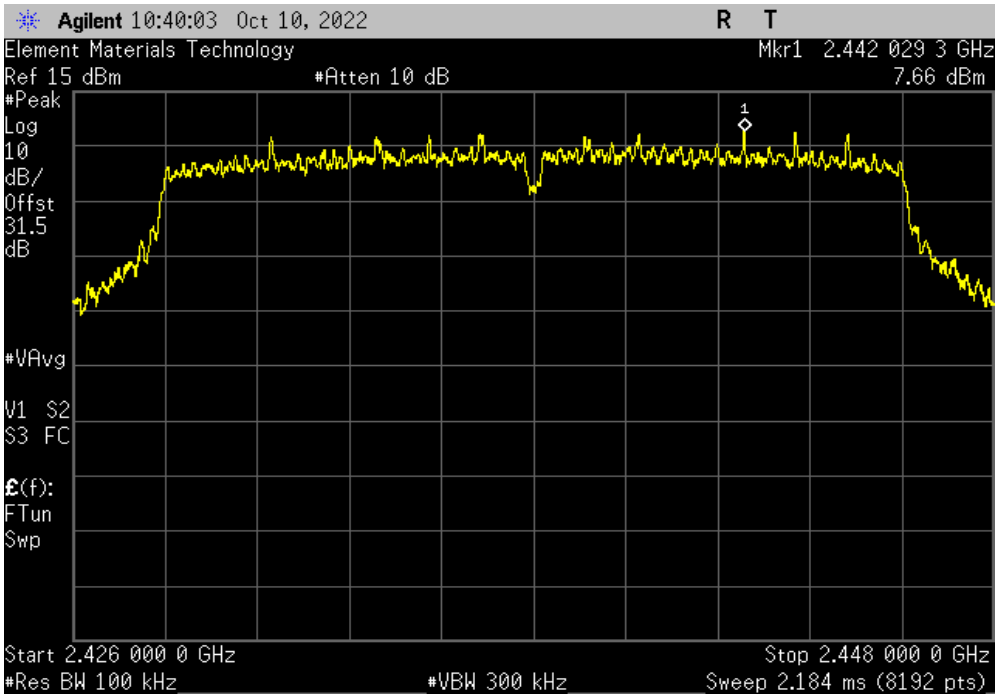
MIMO - Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7036.1	-53.66	-30	Pass



MIMO - Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24394.2	-46.39	-30	Pass

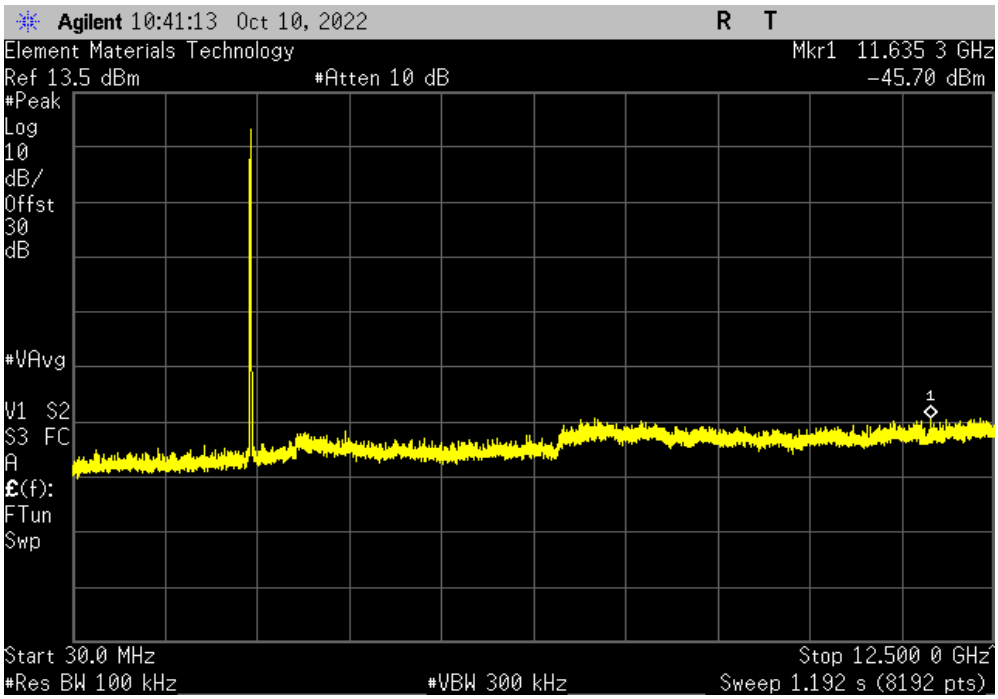


MIMO - Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2442.03	N/A	N/A	N/A

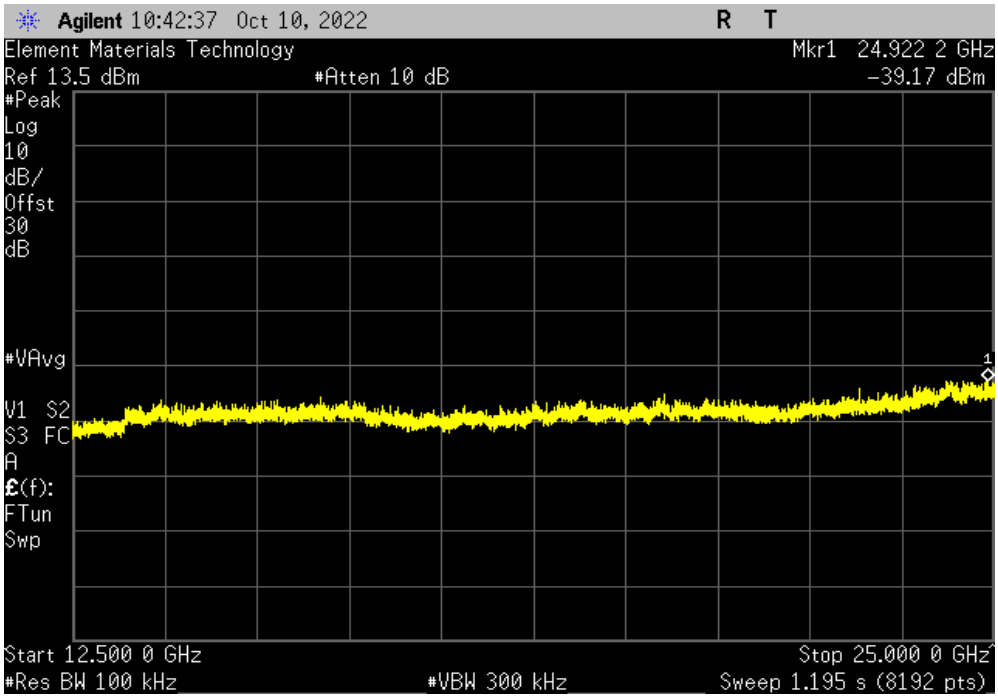


SPURIOUS CONDUCTED EMISSIONS - MIMO

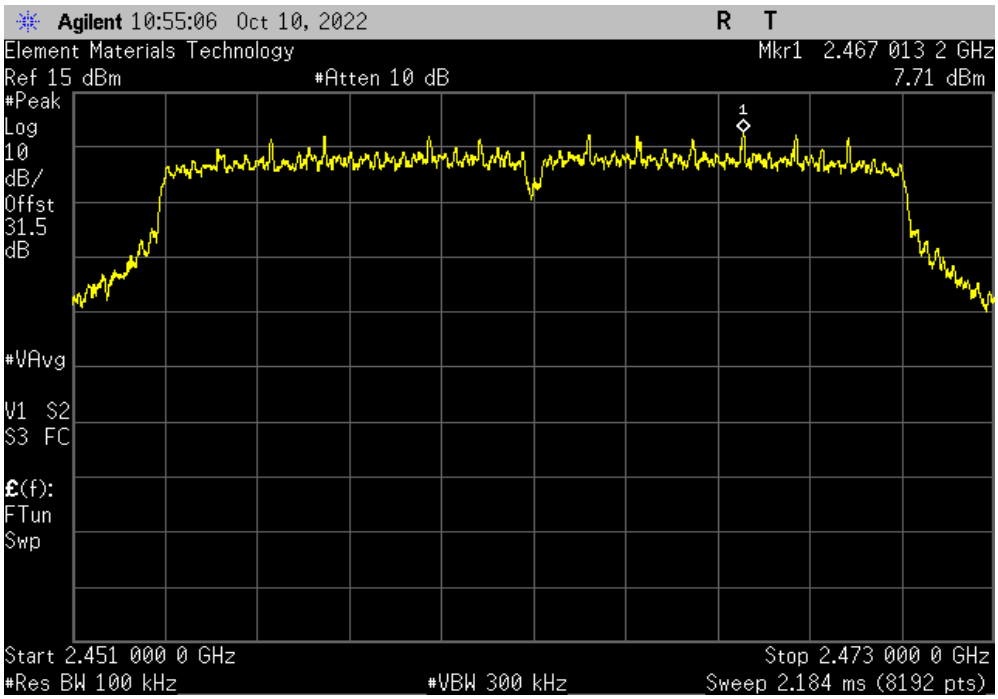
MIMO - Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11635.3	-53.36	-30	Pass



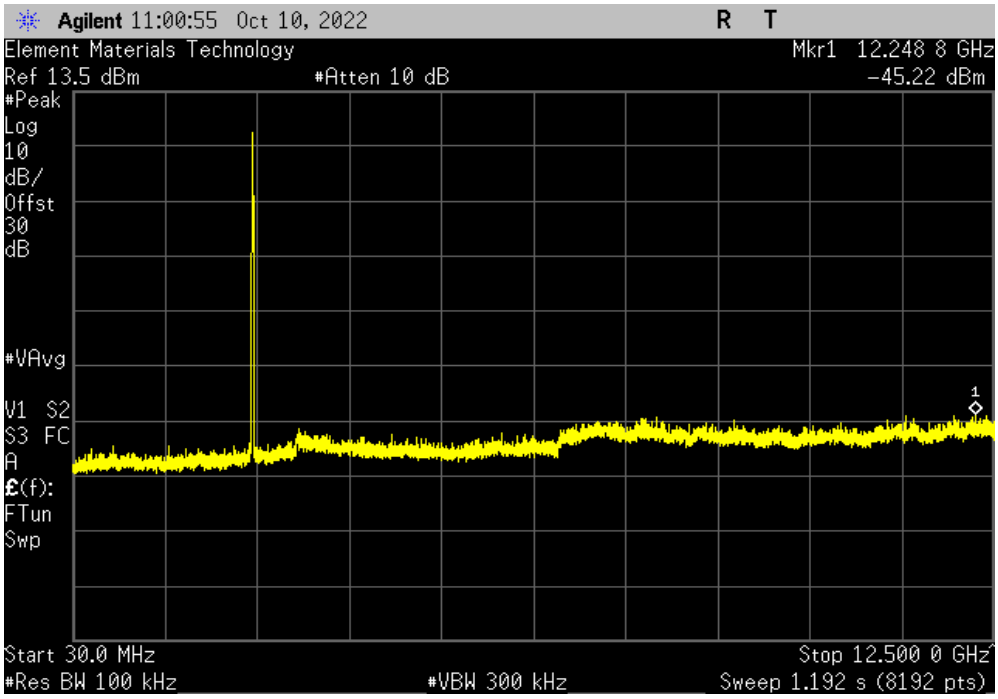
MIMO - Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24922.2	-46.83	-30	Pass



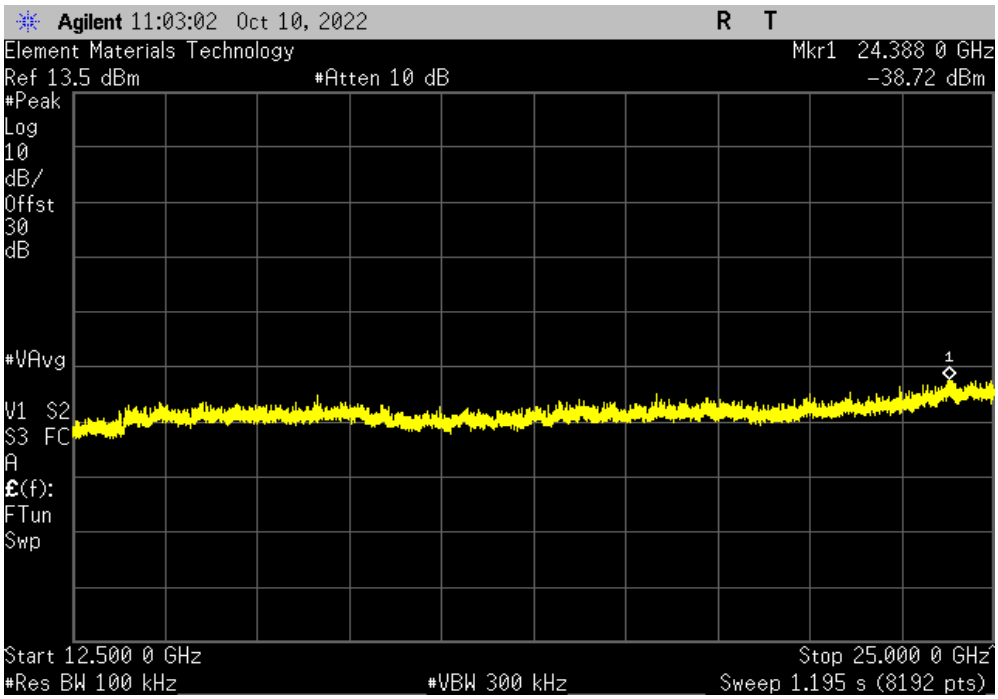
MIMO - Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2467.01	N/A	N/A	N/A



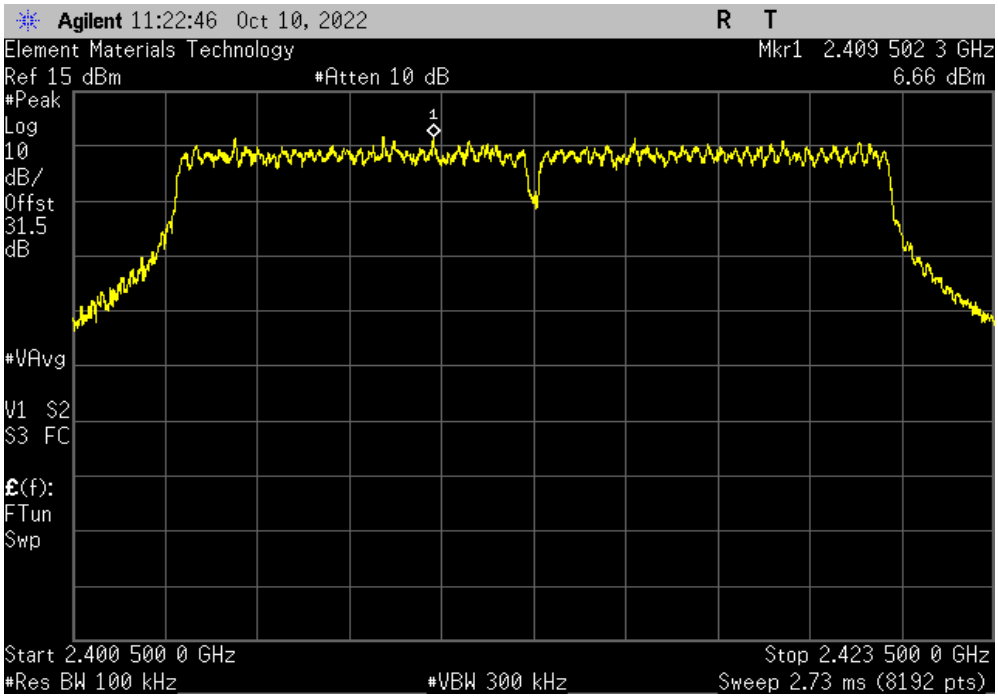
MIMO - Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12248.8	-52.93	-30	Pass



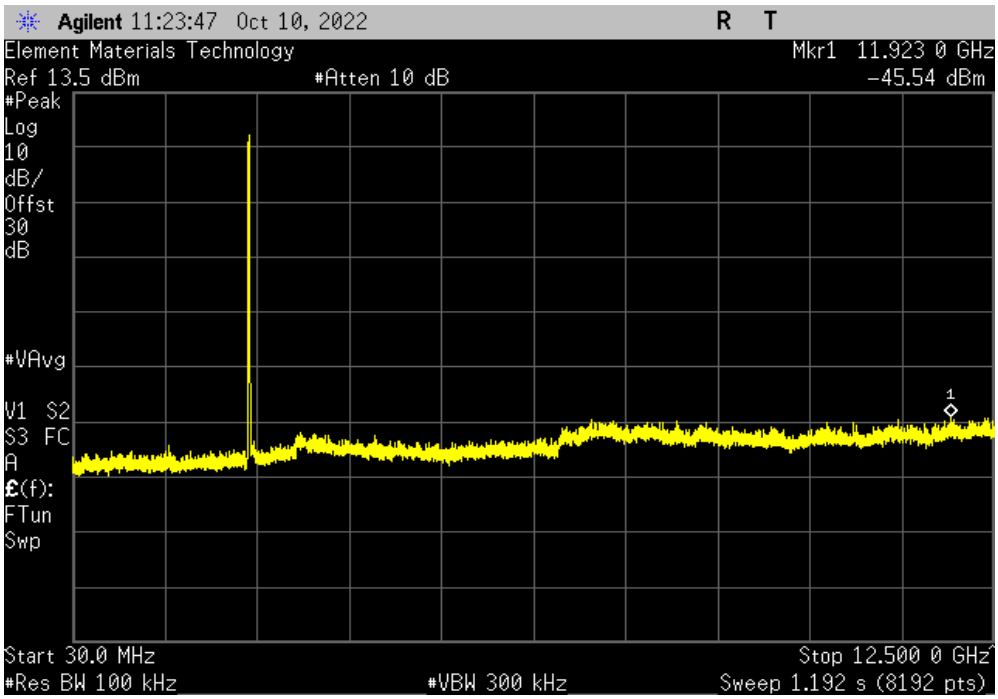
MIMO - Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24388	-46.43	-30	Pass



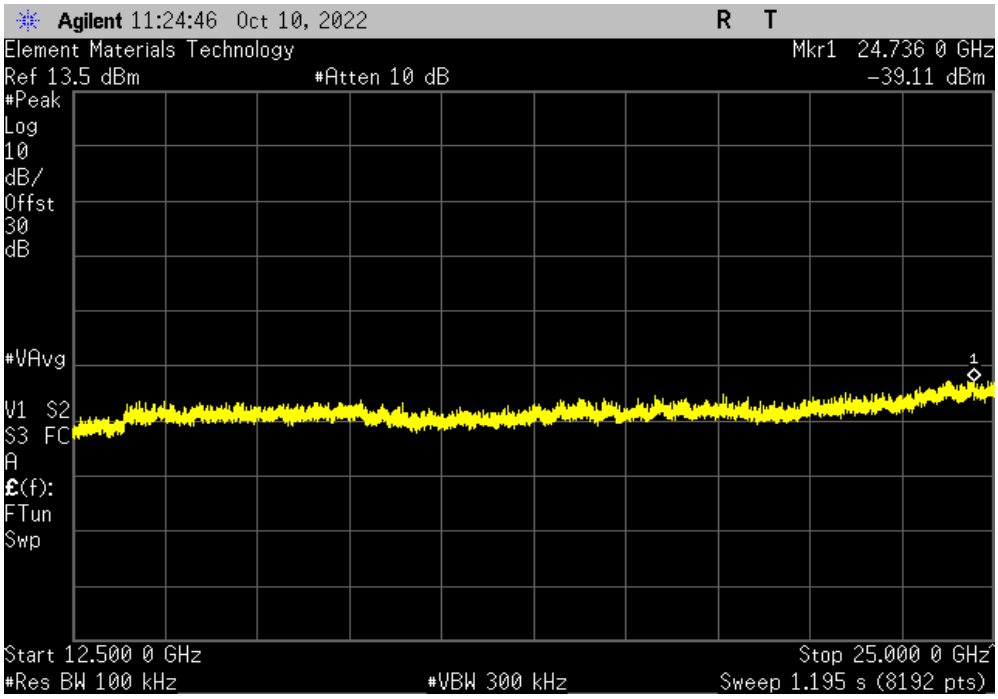
MIMO - Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2409.5	N/A	N/A	N/A



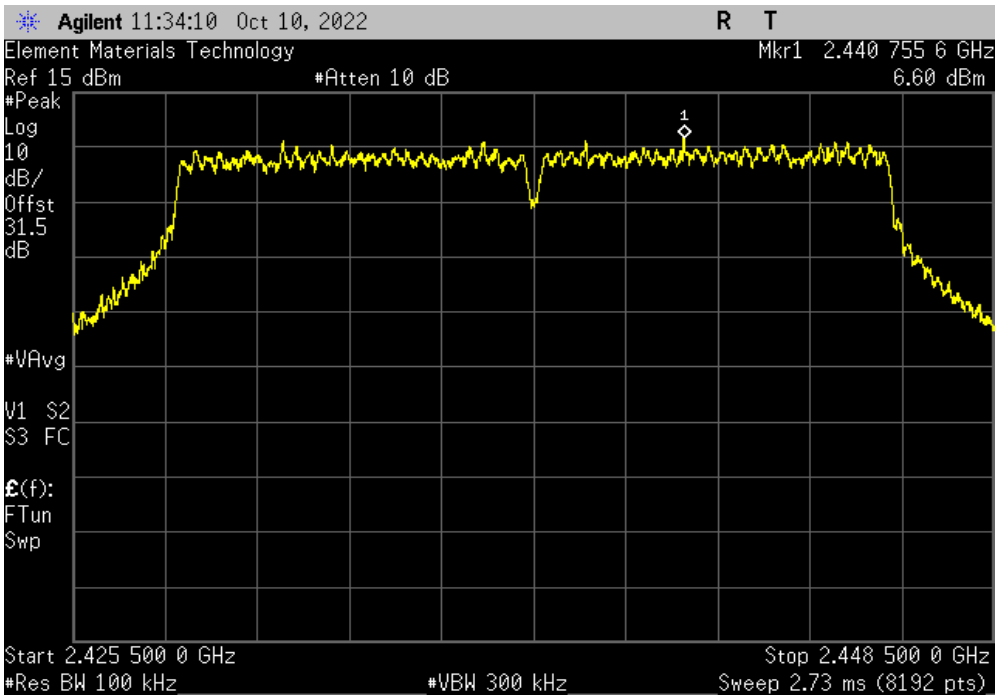
MIMO - Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	11923	-52.2	-30	Pass



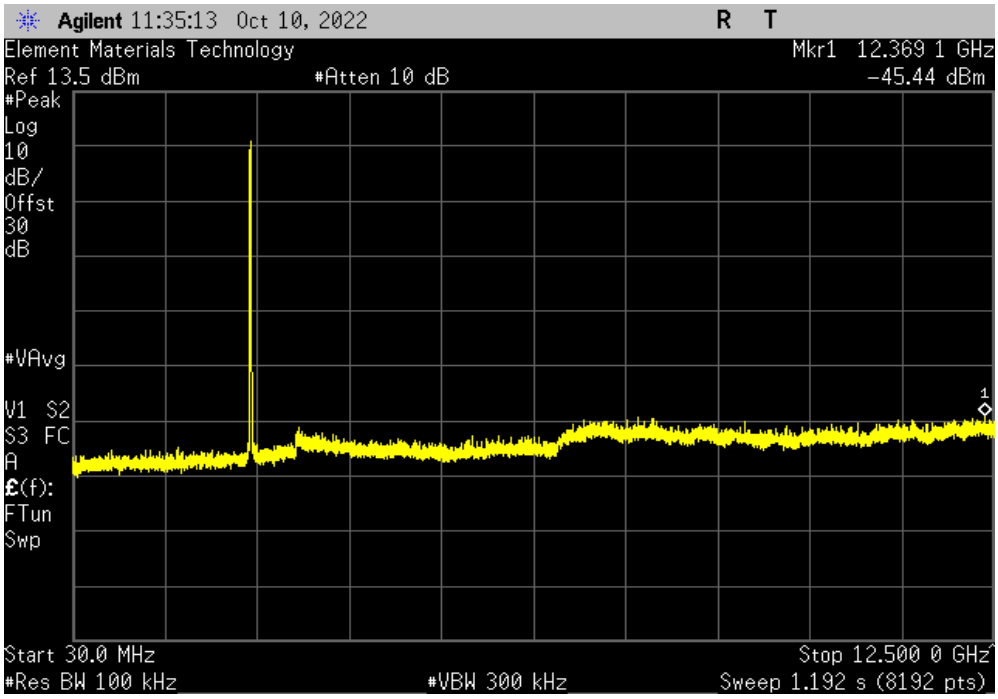
MIMO - Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24736	-45.77	-30	Pass



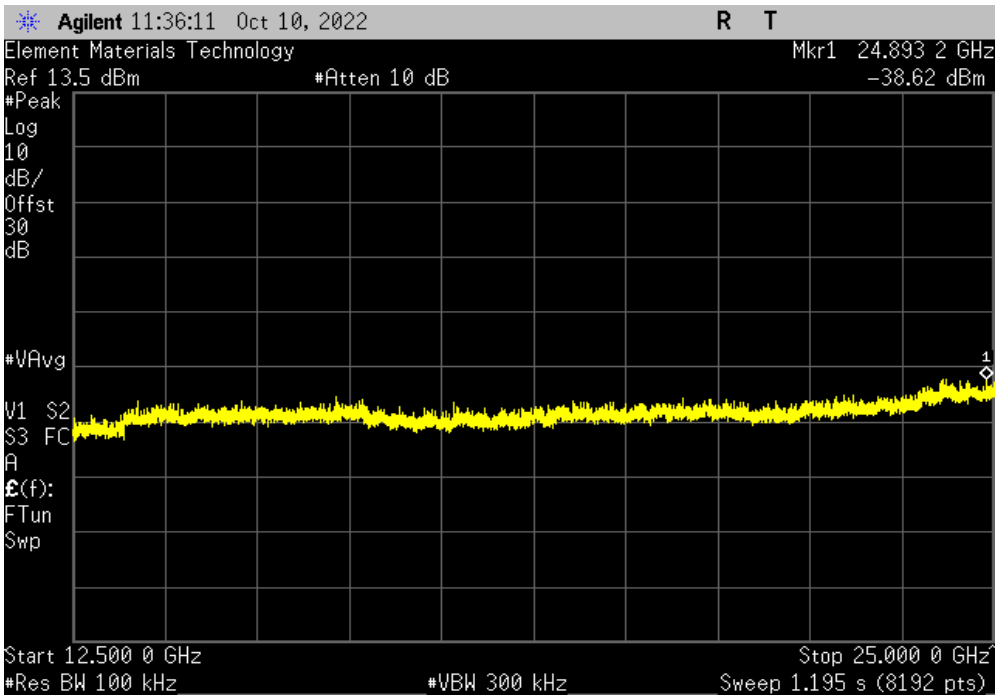
MIMO - Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2440.76	N/A	N/A	N/A



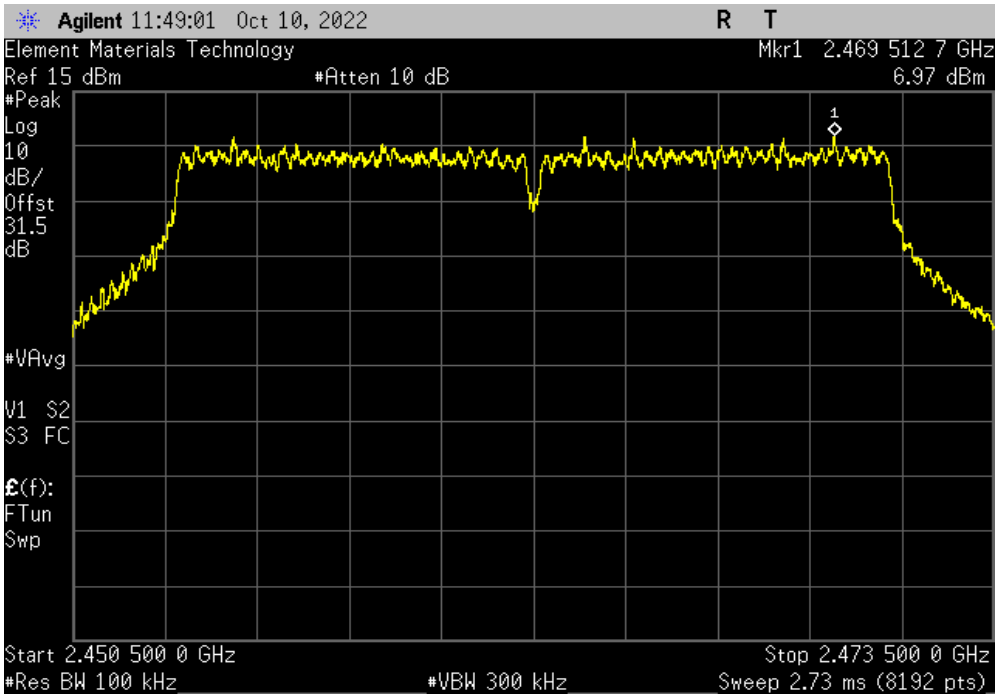
MIMO - Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz		12369.1	-52.04	-30	Pass



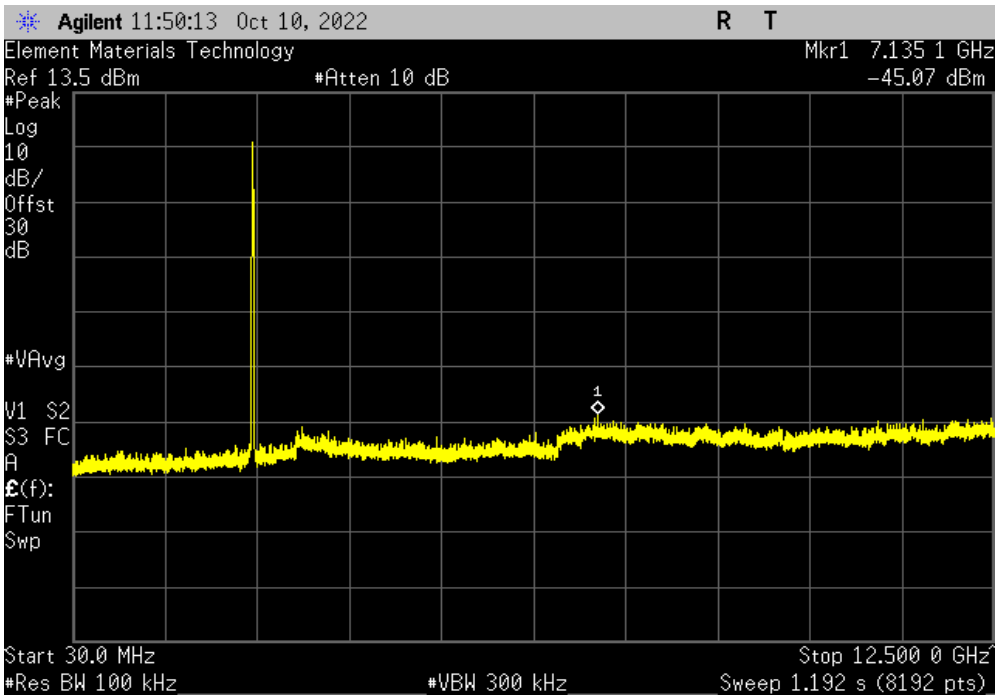
MIMO - Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24893.2	-45.22	-30	Pass



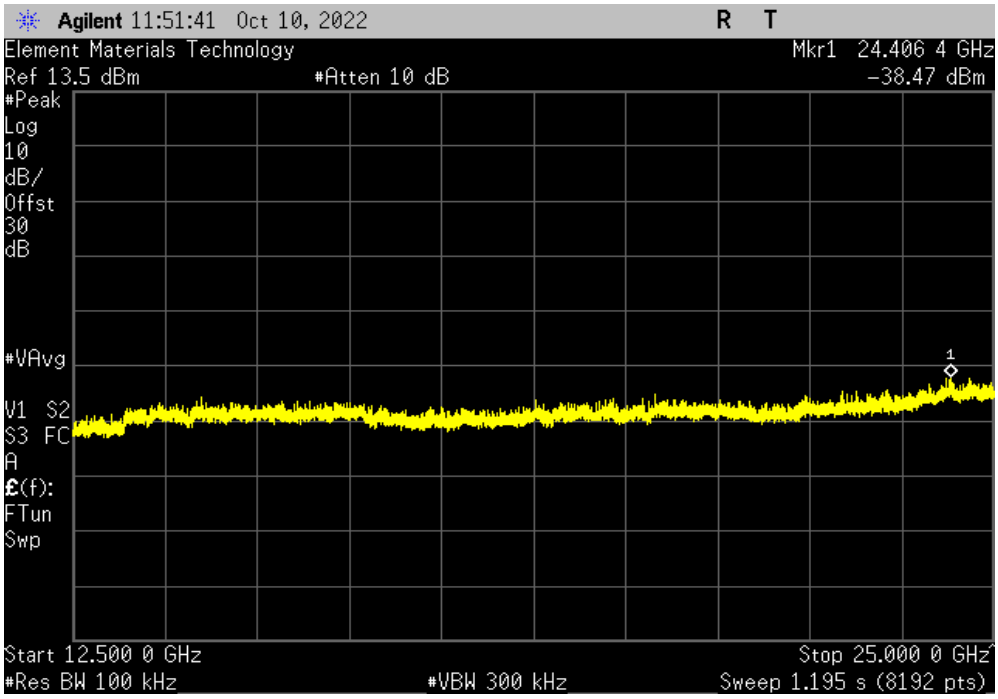
MIMO - Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2469.51	N/A	N/A	N/A



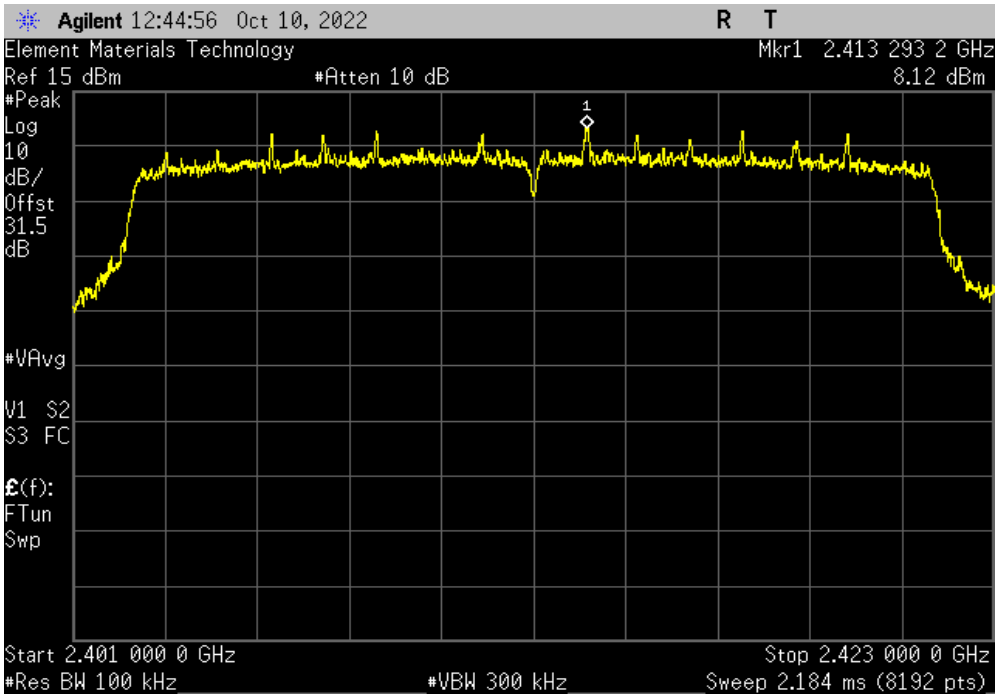
MIMO - Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7135.1	-52.04	-30	Pass



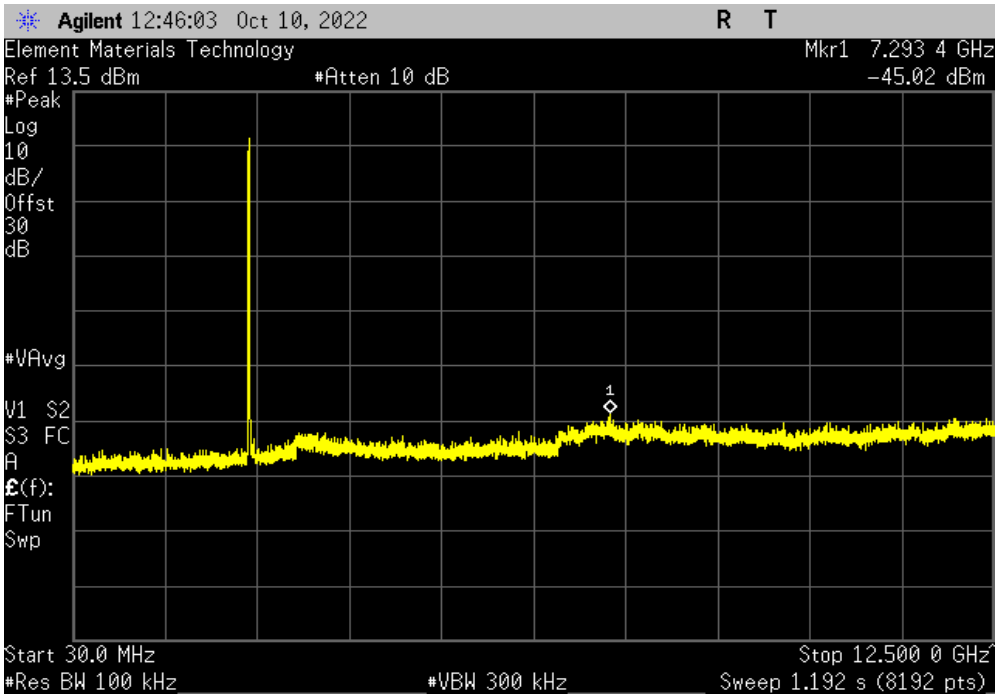
MIMO - Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24406.4	-45.44	-30	Pass



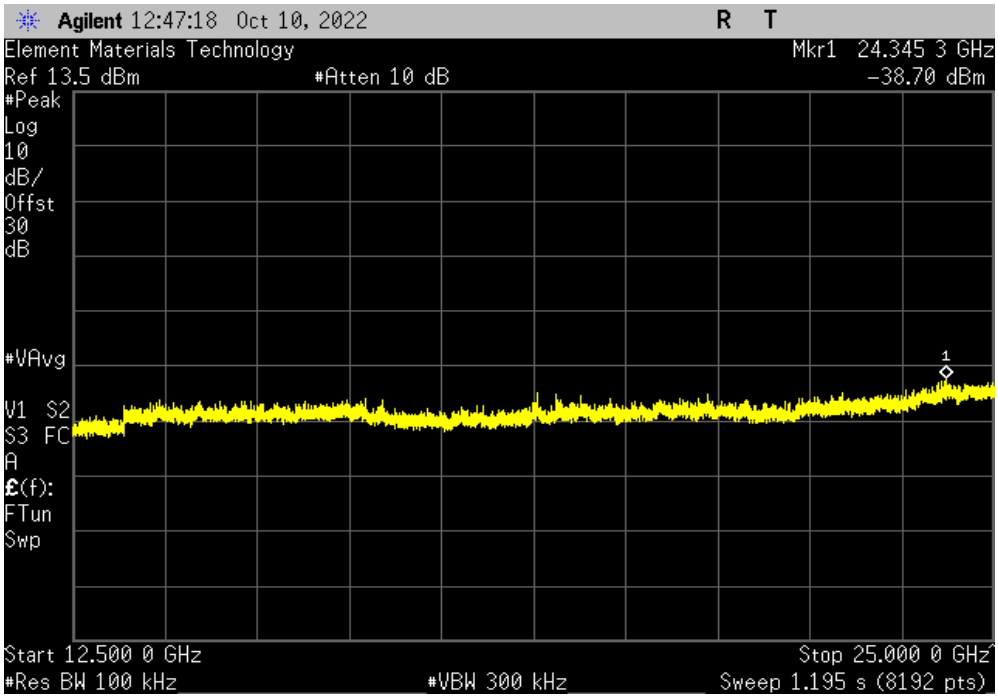
MIMO - Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2413.29	N/A	N/A	N/A



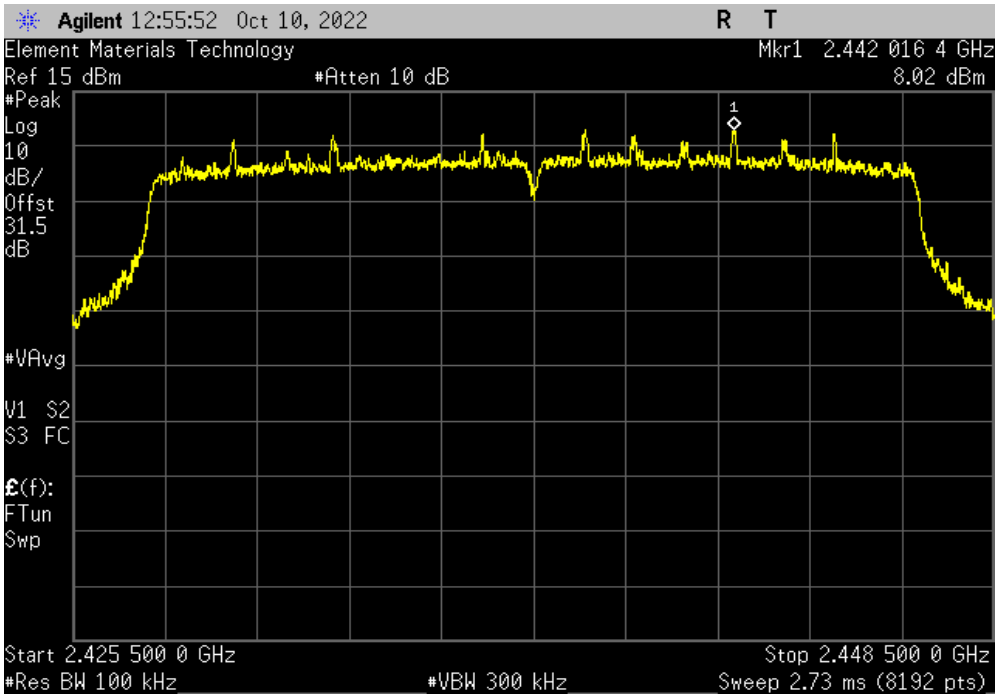
MIMO - Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	7293.4	-53.14	-30	Pass



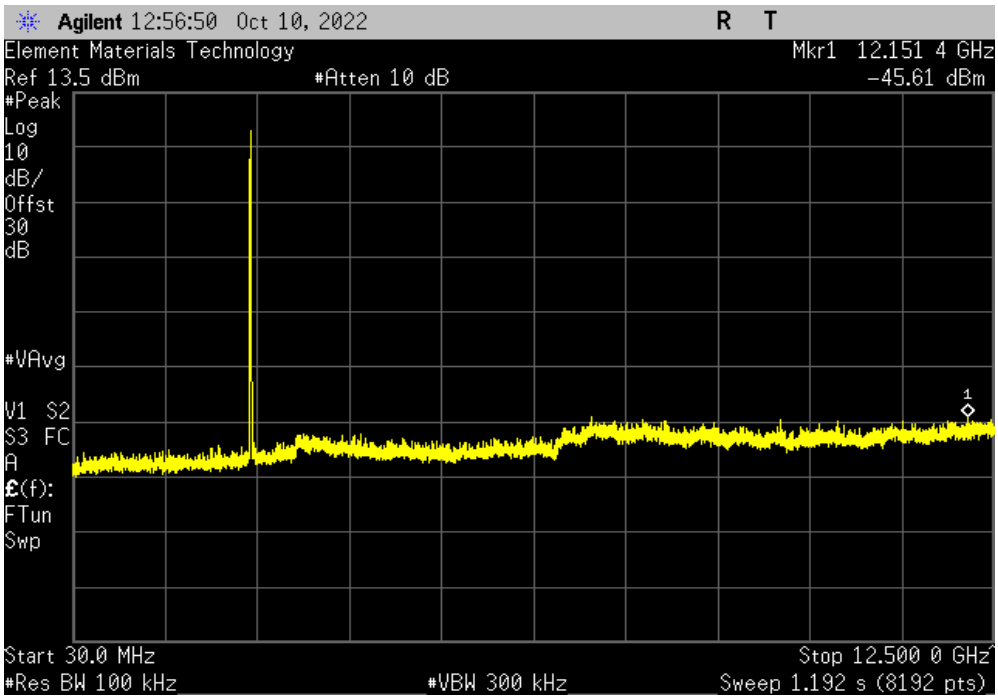
MIMO - Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24345.3	-46.82	-30	Pass



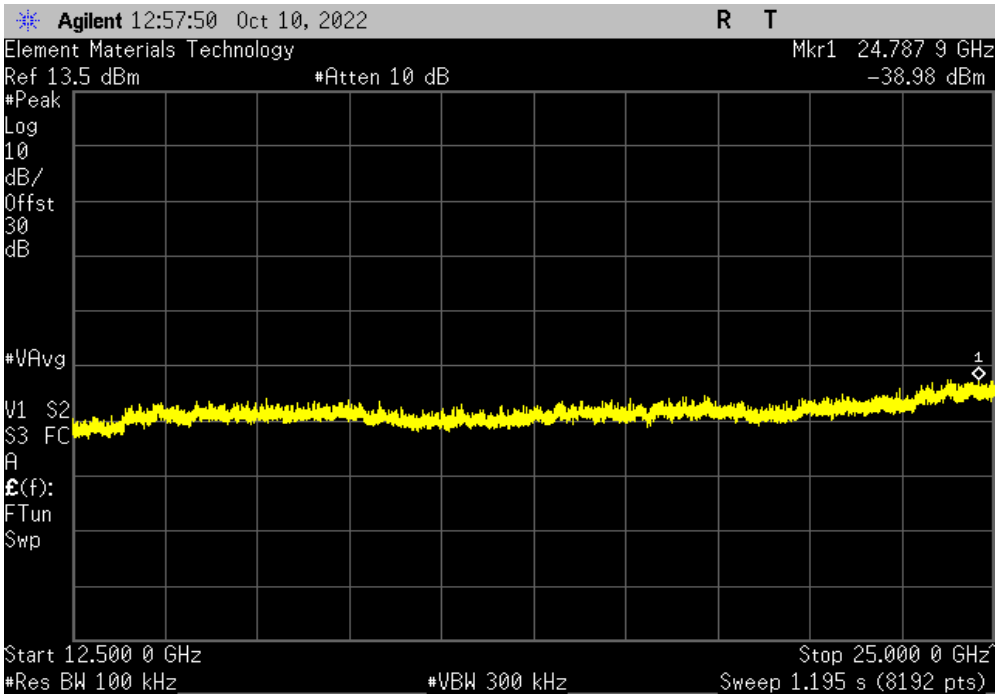
MIMO - Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2442.02	N/A	N/A	N/A



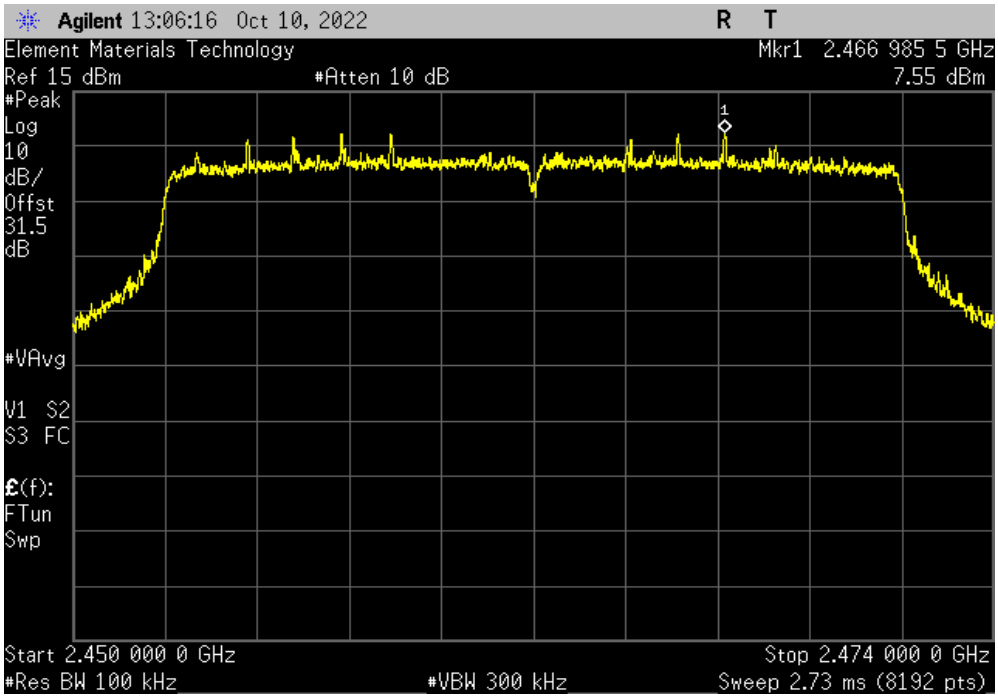
MIMO - Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	12151.4	-53.63	-30	Pass



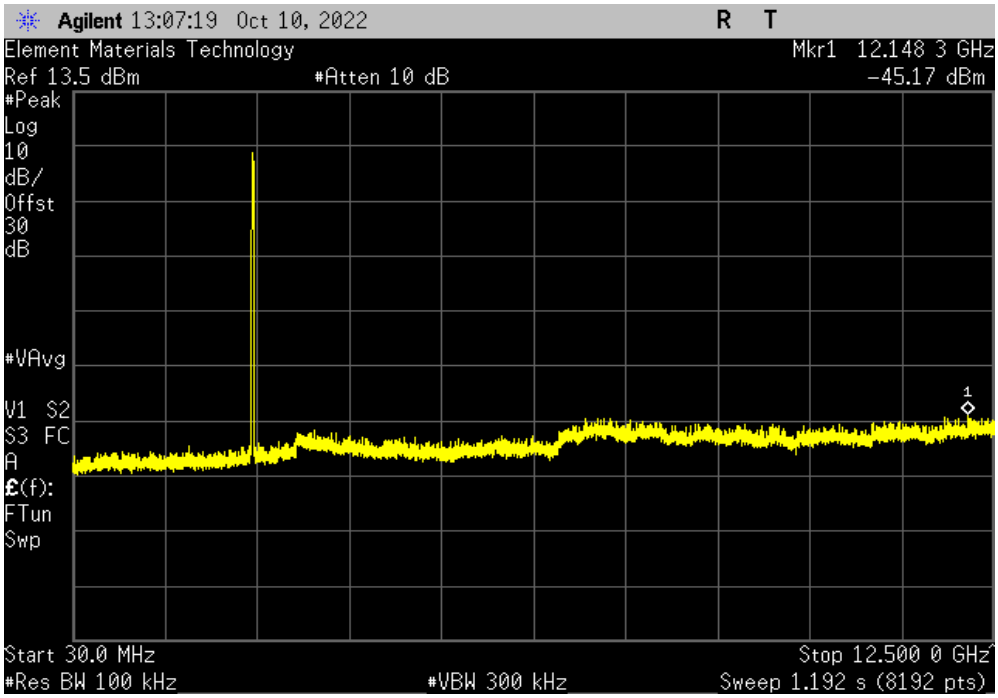
MIMO - Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24787.9	-47	-30	Pass



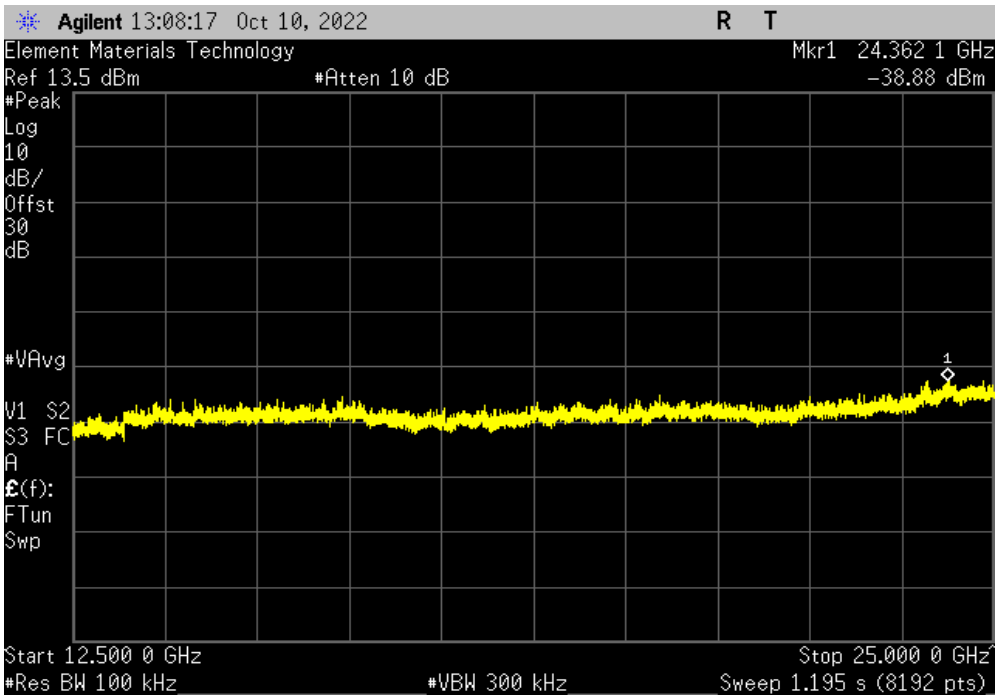
MIMO - Chain 1, HE20, MCS0, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental		2466.99	N/A	N/A	N/A



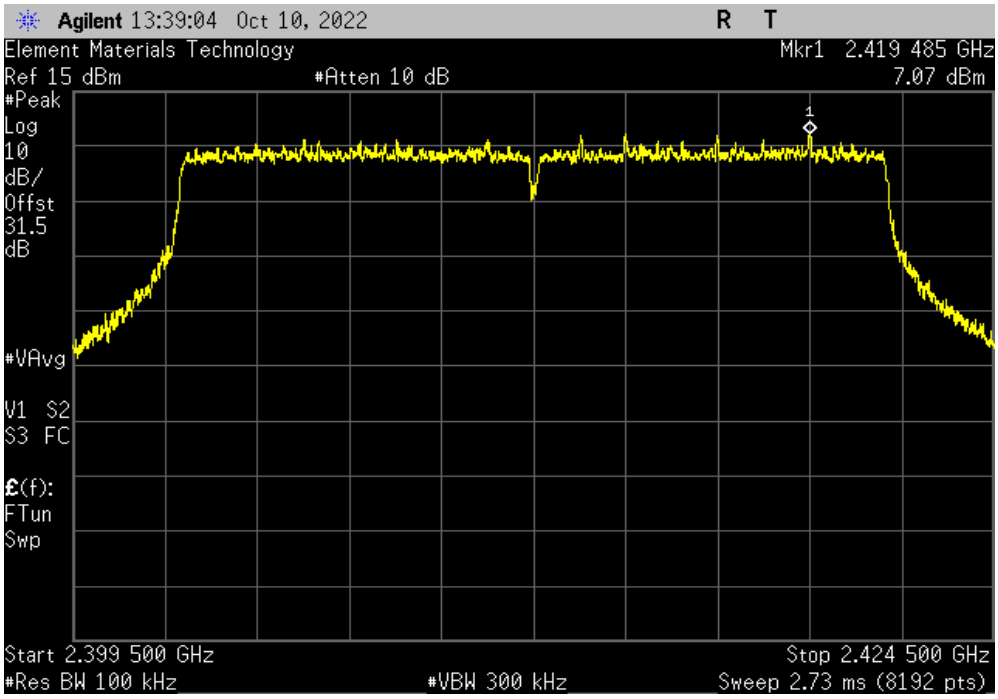
MIMO - Chain 1, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	12148.3	-52.72	-30	Pass



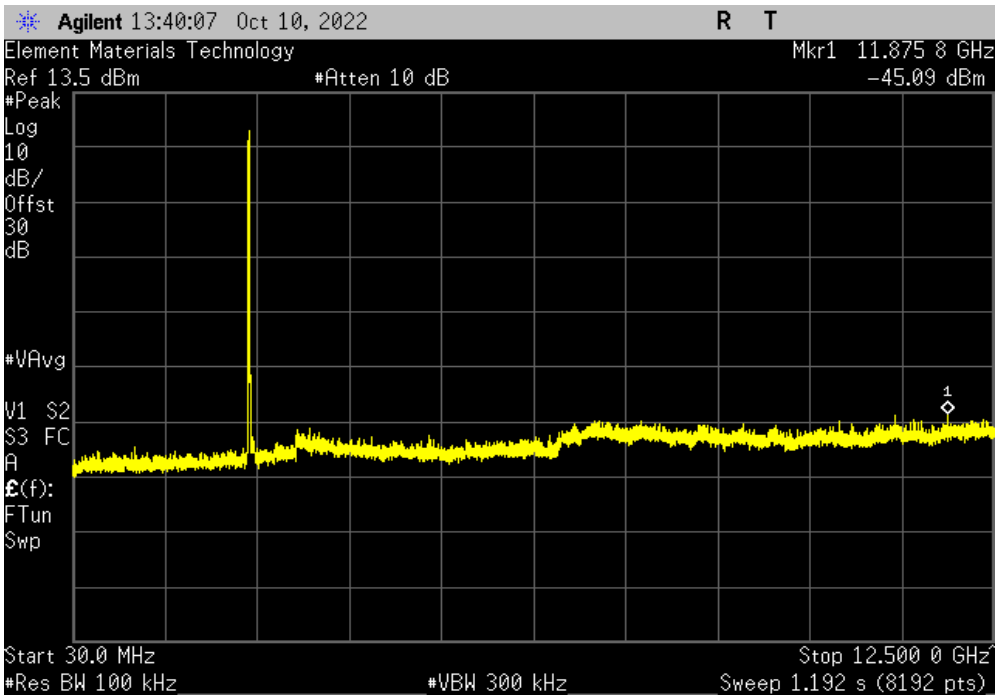
MIMO - Chain 1, HE20, MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24362.1	-46.43	-30	Pass



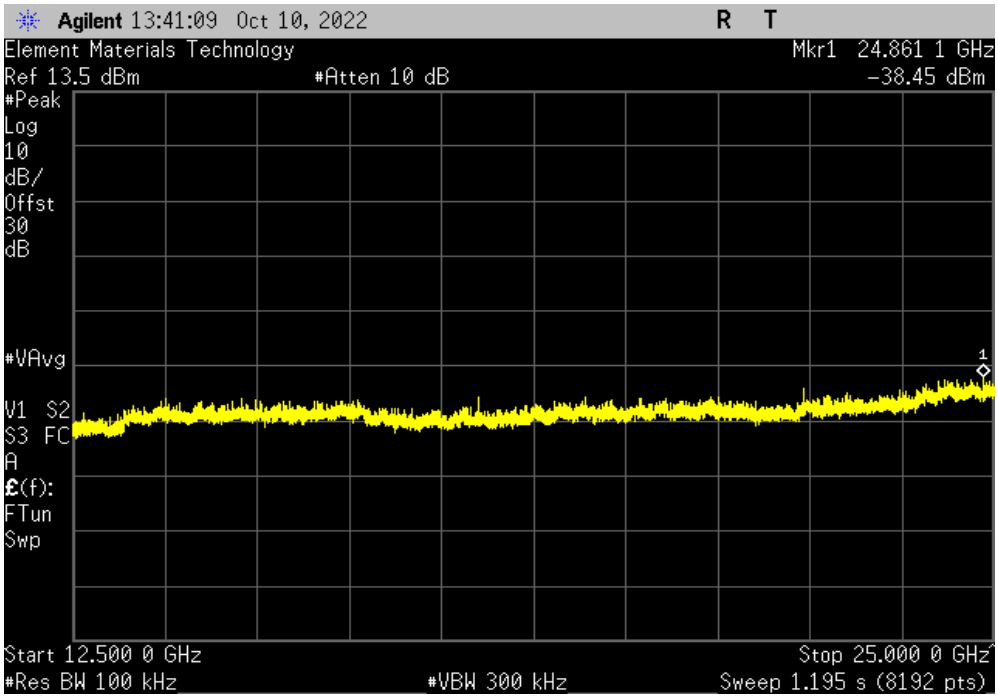
MIMO - Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2419.49	N/A	N/A	N/A



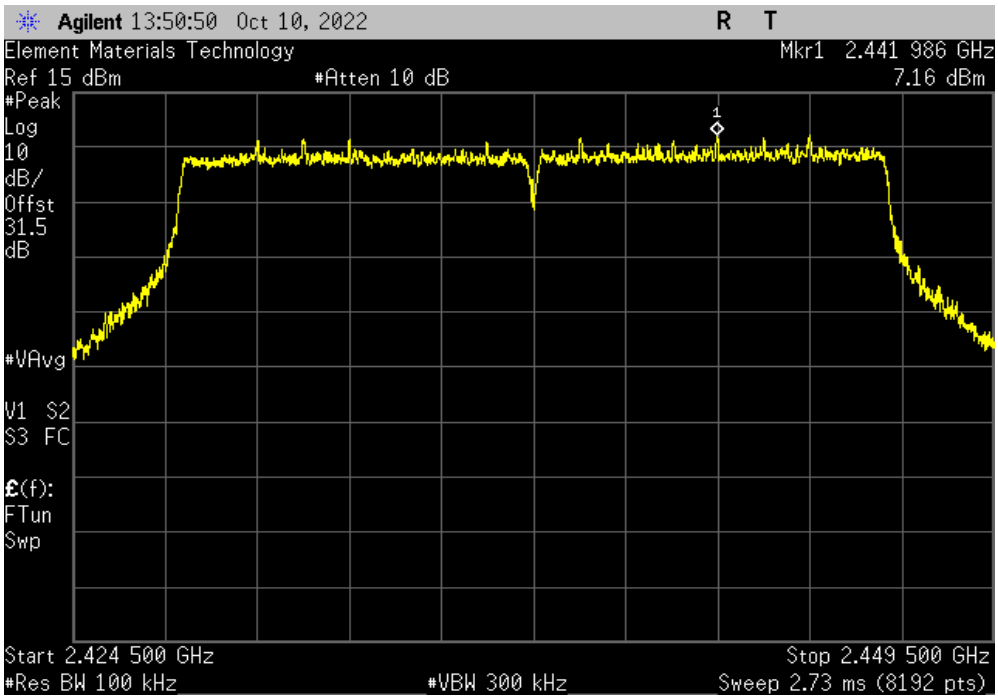
MIMO - Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	11875.8	-52.16	-30	Pass



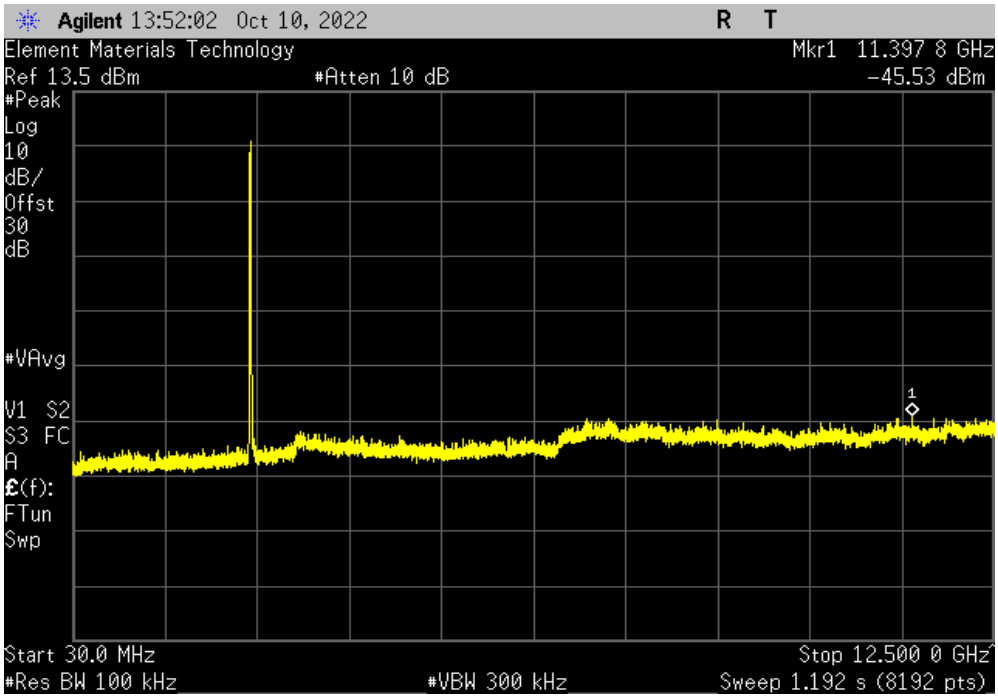
MIMO - Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24861.1	-45.52	-30	Pass



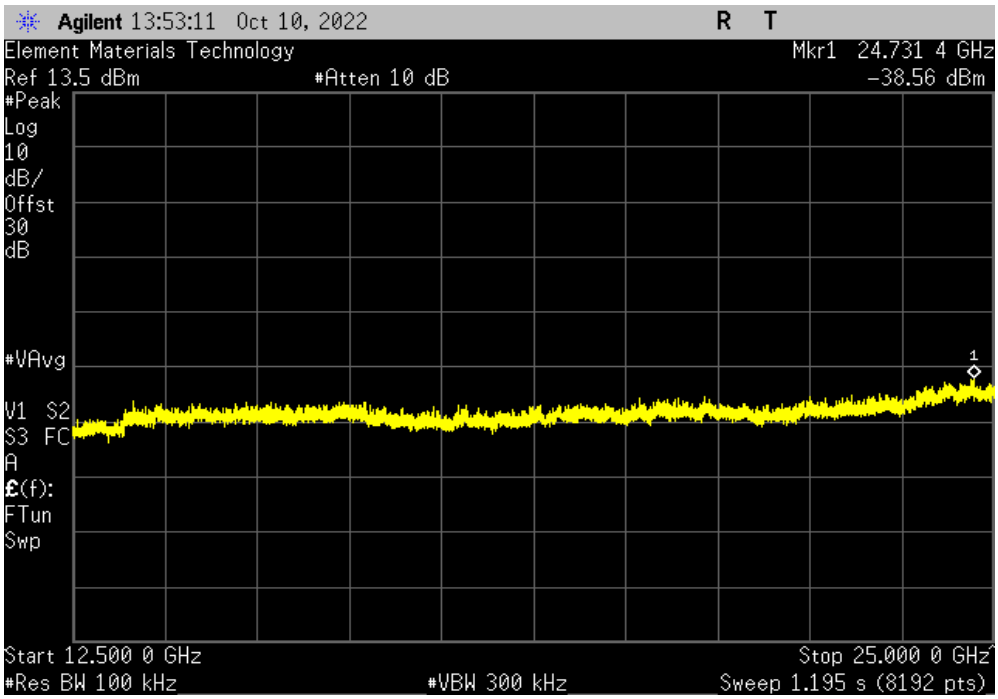
MIMO - Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2441.99	N/A	N/A	N/A



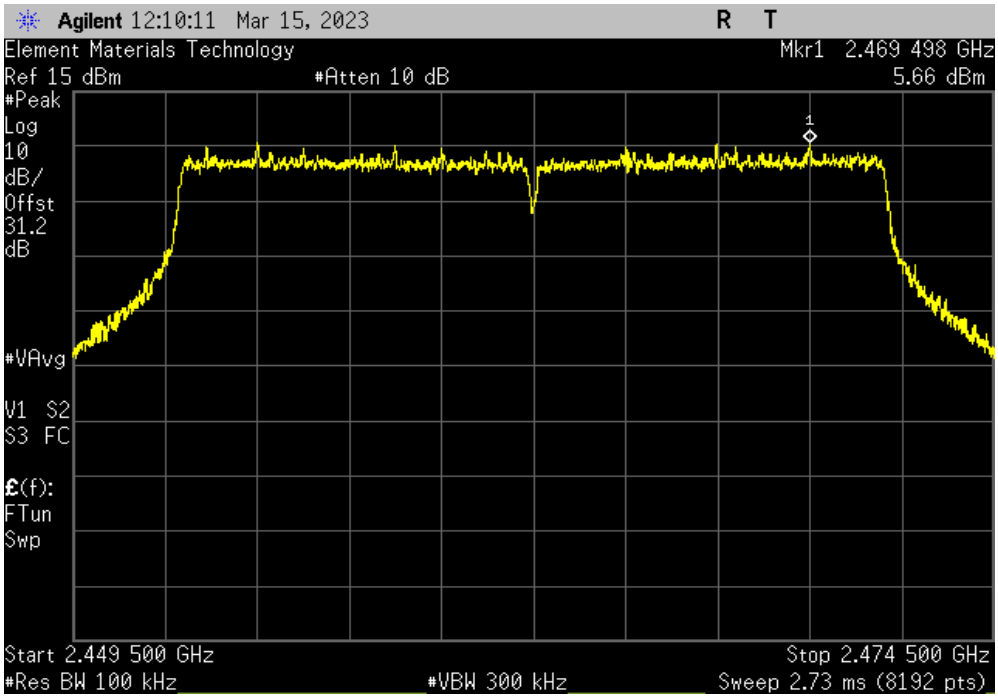
MIMO - Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	11397.8	-52.7	-30	Pass



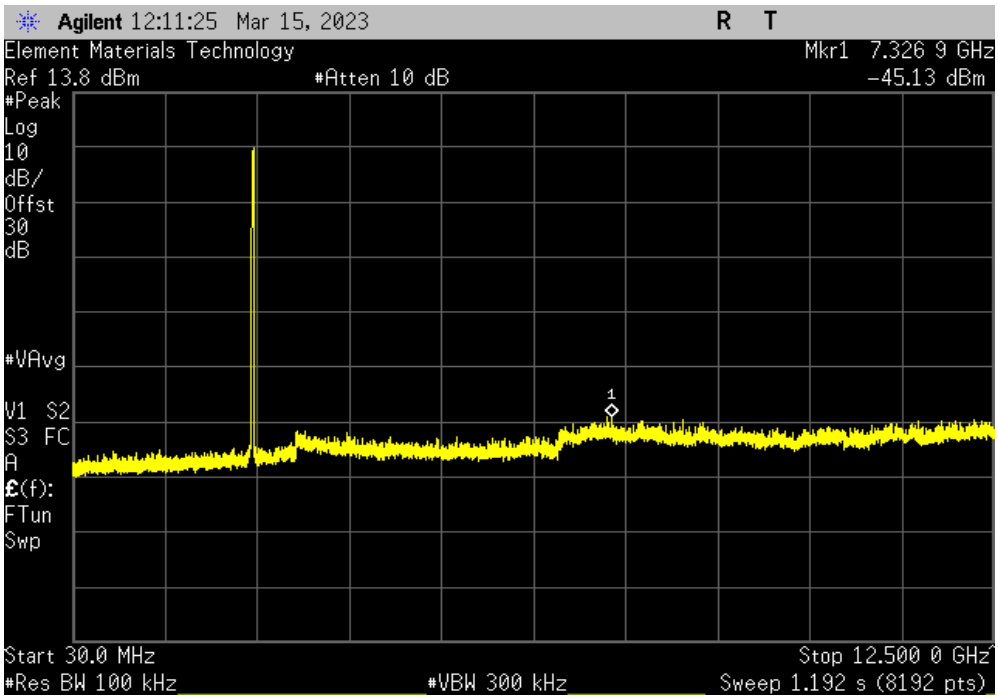
MIMO - Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24731.4	-45.73	-30	Pass



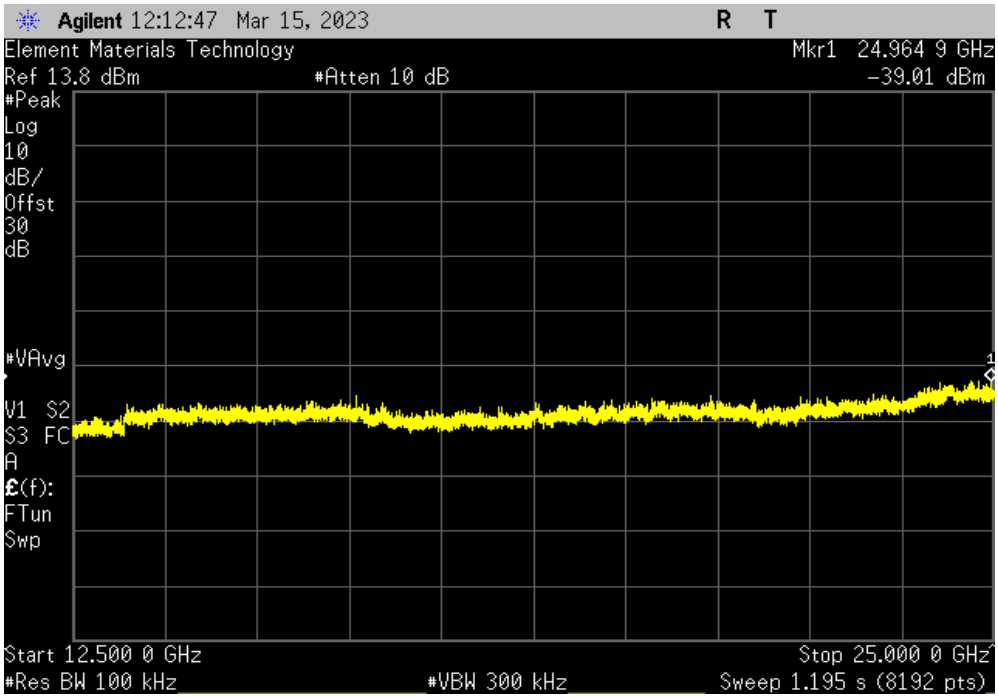
MIMO - Chain 1, HE20, MCS11, High Channel 11, 2462 MHz					
Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental	2469.5	N/A	N/A	N/A



MIMO - Chain 1, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	7326.9	-50.8	-30	Pass



MIMO - Chain 1, HE20, MCS11, High Channel 11, 2462 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24964.9	-44.68	-30	Pass



SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as shown in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These “pre-scans” are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements within 2 MHz of the allowable band may have been taken using the integration method from ANSI C63.10 clause 11.13.3. This procedure uses the channel power feature of the spectrum analyzer to integrate the power of the emission within a 1 MHz bandwidth.

Where the radio test software does not provide for a duty cycle at continuous transmit conditions (> 98%) and the RMS (power average) measurements were made across the on and off times of the EUT transmissions, a duty cycle correction is added to the measurements using the formula of 10*log(1/dc).

TEST EQUIPMENT: 3/16/2023

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2022-12-19	2023-12-19
Antenna - Biconilog	Teseq	CBL 6141B	AXR	2022-11-01	2024-11-01
Antenna - Double Ridge	ETS Lindgren	3115	AIZ	2022-03-02	2024-03-02
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	NCR	NCR
Antenna - Standard Gain	ETS Lindgren	3160-08	AHV	NCR	NCR
Antenna - Standard Gain	ETS Lindgren	3160-09	AIV	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AOL	2022-11-03	2023-11-03
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAG	2022-05-03	2023-05-03
Amplifier - Pre-Amplifier	L-3 Narda-MITEQ	AMF-6F-08001200-30-10P	PAO	2022-11-03	2023-11-03
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2022-11-03	2023-11-03
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	2022-07-08	2023-07-08
Cable	N/A	Bilog Cables	EVA	2022-11-03	2023-11-03
Cable	N/A	Double Ridge Horn Cables	EVB	2023-02-12	2024-02-12
Cable	None	Standard Gain Horn Cables	EVF	2022-11-03	2023-11-03
Cable	ESM Cable Corp.	TTBJ141-KMKM-72	EVY	2022-07-08	2023-07-08
Attenuator	Coaxicom	3910-20	AXZ	2023-02-10	2024-02-10
Filter - Low Pass	Micro-Tronics	LPM50004	LFD	2023-02-10	2024-02-10
Filter - High Pass	Micro-Tronics	HPM50111	HFO	2022-11-03	2023-11-03

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

TEST EQUIPMENT: 6/16/2023

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2022-12-19	2023-12-19
Antenna - Biconilog	Teseq	CBL 6141B	AXR	2022-11-01	2024-11-01
Antenna - Double Ridge	ETS Lindgren	3115	AIZ	2022-03-02	2024-03-02
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	NCR	NCR
Antenna - Standard Gain	ETS Lindgren	3160-08	AHV	NCR	NCR

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.2 dB	-5.2 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 26400 MHz

POWER INVESTIGATED

24 VDC

CONFIGURATIONS INVESTIGATED

KYME0071-6
KYME0082-9

MODES INVESTIGATED

802.11ax - TX: Chain 0, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz
802.11ax - TX: Chain 01, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz
802.11ax - TX: Chain 1, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz
802.11ax - TX: Low Ch 1 = 2412 MHz, Mid Ch 6 = 2437 MHz, High Ch 11 = 2462 MHz

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0071
Serial Number:	ACN214K220915001	Date:	2023-03-17
Customer:	Kymeta Corp.	Temperature:	20.1°C
Attendees:	Dean Busch and Mike Olsen	Relative Humidity:	34.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jeff Alcoke	Job Site:	EV01
Power:	24 VDC	Configuration:	KYME0071-6

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

TEST PARAMETERS

Run #:	41	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)

COMMENTS

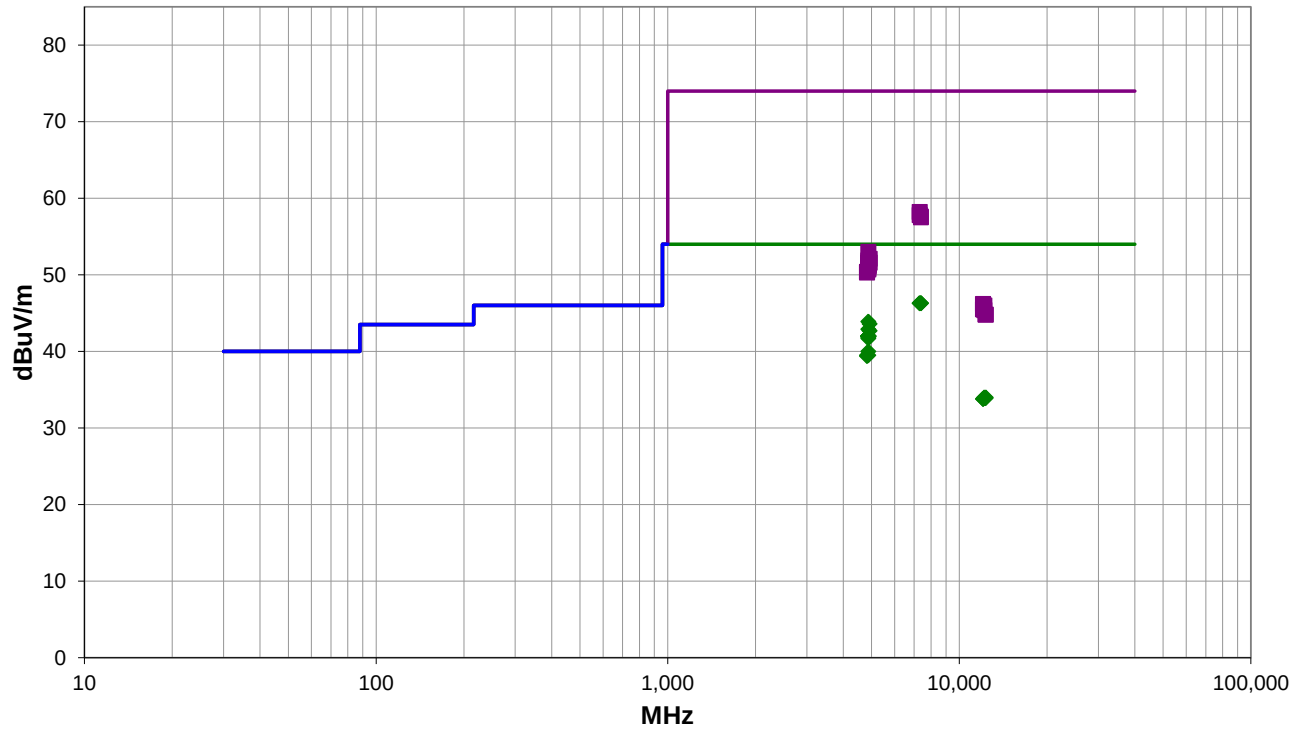
Please reference data comments below for: chain, channel, and data rate.
2nd harmonic is a CW tone that changes in frequency with the transmit channel, therefore no DCCF was applied to the RMS average measurement. All other emissions are noise floor.

EUT OPERATING MODES

802.11ax - TX: Low Ch 1 = 2412 MHz, Mid Ch 6 = 2437 MHz, High Ch 11 = 2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 41 ■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #41

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
7310.642	31.7	14.6	1.5	143.0	3.0	0.0	Vert	AV	0.0	46.3	54.0	-7.7	Chain 0, Mid Ch. 1 Mbps
7311.658	31.7	14.6	1.1	-2.0	3.0	0.0	Horz	AV	0.0	46.3	54.0	-7.7	Chain 0, Mid Ch, 1 Mbps
7385.358	31.5	14.8	1.5	97.0	3.0	0.0	Horz	AV	0.0	46.3	54.0	-7.7	Chain 0, High Ch, 1 Mbps
7386.767	31.5	14.8	3.7	334.0	3.0	0.0	Vert	AV	0.0	46.3	54.0	-7.7	Chain 0, High Ch, 1 Mbps
4873.983	37.3	6.6	1.2	190.0	3.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	Chain 0, Mid Ch. 1 Mbps
4923.975	36.9	6.7	1.5	342.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	Chain 0, High Ch, 1 Mbps
4873.993	36.3	6.6	1.5	190.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chain 1, Mid Ch, 1 Mbps
4924.008	36.0	6.7	1.4	256.0	3.0	0.0	Horz	AV	0.0	42.7	54.0	-11.3	Chain 0, High Ch, 1 Mbps
4873.883	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, 36 Mbps
4874.017	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, 54 Mbps
4873.973	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, HT20 MCS7
4874.020	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, VHT20 MCS0
4873.997	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, VHT20 MCS8
4874.050	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, HE20 MCS0
4873.983	35.4	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	Chain 0, Mid Ch, HE20 MCS7
4873.943	35.3	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	41.9	54.0	-12.1	Chain 0, Mid Ch, 11 Mbps
4874.003	35.3	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	41.9	54.0	-12.1	Chain 0, Mid Ch, HT20 MCS0
4873.930	35.1	6.6	1.5	189.0	3.0	0.0	Vert	AV	0.0	41.7	54.0	-12.3	Chain 0, Mid Ch, 6 Mbps
4874.117	33.4	6.6	1.2	260.0	3.0	0.0	Horz	AV	0.0	40.0	54.0	-14.0	Chain 0, Mid Ch. 1 Mbps
4823.733	33.0	6.5	1.2	131.0	3.0	0.0	Horz	AV	0.0	39.5	54.0	-14.5	Chain 0, Low Ch, 1 Mbps
4874.073	32.9	6.6	1.5	55.0	3.0	0.0	Horz	AV	0.0	39.5	54.0	-14.5	Chain 01, Mid Ch, HT20 MCS8
4821.575	32.9	6.5	1.5	169.0	3.0	0.0	Vert	AV	0.0	39.4	54.0	-14.6	Chain 0, Low Ch, 1 Mbps
7310.975	43.6	14.6	1.1	-2.0	3.0	0.0	Horz	PK	0.0	58.2	74.0	-15.8	Chain 0, Mid Ch, 1 Mbps
7310.908	43.2	14.6	1.5	143.0	3.0	0.0	Vert	PK	0.0	57.8	74.0	-16.2	Chain 0, Mid Ch. 1 Mbps
7384.942	42.8	14.8	3.7	334.0	3.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	Chain 0, High Ch, 1 Mbps
7384.808	42.7	14.8	1.5	97.0	3.0	0.0	Horz	PK	0.0	57.5	74.0	-16.5	Chain 0, High Ch, 1 Mbps
12309.960	34.4	-0.4	3.5	176.0	3.0	0.0	Horz	AV	0.0	34.0	54.0	-20.0	Chain 0, High Ch, 1 Mbps
12185.900	34.3	-0.3	1.5	240.0	3.0	0.0	Vert	AV	0.0	34.0	54.0	-20.0	Chain 0, Mid Ch, 1 Mbps
12308.080	34.3	-0.4	1.5	204.0	3.0	0.0	Vert	AV	0.0	33.9	54.0	-20.1	Chain 0, High Ch, 1 Mbps
12183.110	34.2	-0.3	1.5	276.0	3.0	0.0	Horz	AV	0.0	33.9	54.0	-20.1	Chain 0, Mid Ch, 1 Mbps
12059.600	34.2	-0.4	1.5	174.0	3.0	0.0	Horz	AV	0.0	33.8	54.0	-20.2	Chain 0, Low Ch, 1 Mbps
12058.070	34.2	-0.4	1.5	169.0	3.0	0.0	Vert	AV	0.0	33.8	54.0	-20.2	Chain 0, Low Ch, 1 Mbps
4873.800	46.4	6.6	1.2	190.0	3.0	0.0	Vert	PK	0.0	53.0	74.0	-21.0	Chain 0, Mid Ch. 1 Mbps
4924.158	45.4	6.7	1.5	342.0	3.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Chain 0, High Ch, 1 Mbps
4873.807	45.3	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	Chain 0, Mid Ch, 54 Mbps
4924.208	44.9	6.7	1.4	256.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	Chain 0, High Ch, 1 Mbps
4873.740	45.0	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Chain 0, Mid Ch, 6 Mbps
4874.807	45.0	6.6	1.5	190.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Chain 1, Mid Ch, 1 Mbps
4874.550	44.8	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	Chain 0, Mid Ch, 36 Mbps
4874.010	44.8	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	Chain 0, Mid Ch, VHT20 MCS0
4874.393	44.7	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.3	74.0	-22.7	Chain 0, Mid Ch, 11 Mbps
4874.257	44.7	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.3	74.0	-22.7	Chain 0, Mid Ch, VHT20 MCS8
4873.357	44.7	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.3	74.0	-22.7	Chain 0, Mid Ch, HE20 MCS7

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

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
4874.327	44.6	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Chain 0, Mid Ch, HT20 MCS0
4873.820	44.5	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Chain 0, Mid Ch, HT20 MCS7
4874.090	44.5	6.6	1.5	189.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Chain 0, Mid Ch, HE20 MCS0
4873.570	44.3	6.6	1.5	55.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	Chain 01, Mid Ch, HT20 MCS8
4874.292	44.1	6.6	1.2	260.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Chain 0, Mid Ch. 1 Mbps
4823.750	43.9	6.5	1.2	131.0	3.0	0.0	Horz	PK	0.0	50.4	74.0	-23.6	Chain 0, Low Ch, 1 Mbps
4821.817	43.8	6.5	1.5	169.0	3.0	0.0	Vert	PK	0.0	50.3	74.0	-23.7	Chain 0, Low Ch, 1 Mbps
12059.400	46.6	-0.4	1.5	169.0	3.0	0.0	Vert	PK	0.0	46.2	74.0	-27.8	Chain 0, Low Ch, 1 Mbps
12185.090	46.3	-0.3	1.5	240.0	3.0	0.0	Vert	PK	0.0	46.0	74.0	-28.0	Chain 0, Mid Ch, 1 Mbps
12057.680	45.9	-0.4	1.5	174.0	3.0	0.0	Horz	PK	0.0	45.5	74.0	-28.5	Chain 0, Low Ch, 1 Mbps
12186.680	45.7	-0.3	1.5	276.0	3.0	0.0	Horz	PK	0.0	45.4	74.0	-28.6	Chain 0, Mid Ch, 1 Mbps
12307.840	45.2	-0.4	3.5	176.0	3.0	0.0	Horz	PK	0.0	44.8	74.0	-29.2	Chain 0, High Ch, 1 Mbps
12310.580	45.2	-0.4	1.5	204.0	3.0	0.0	Vert	PK	0.0	44.8	74.0	-29.2	Chain 0, High Ch, 1 Mbps

CONCLUSION
Pass

Tested By

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0071
Serial Number:	ACN214K220915001	Date:	2023-03-17
Customer:	Kymeta Corp.	Temperature:	20.1°C
Attendees:	Dean Busch and Mike Olsen	Relative Humidity:	34.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jeff Alcoke	Job Site:	EV01
Power:	24 VDC	Configuration:	KYME0071-6

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

TEST PARAMETERS

Run #:	45	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)

COMMENTS

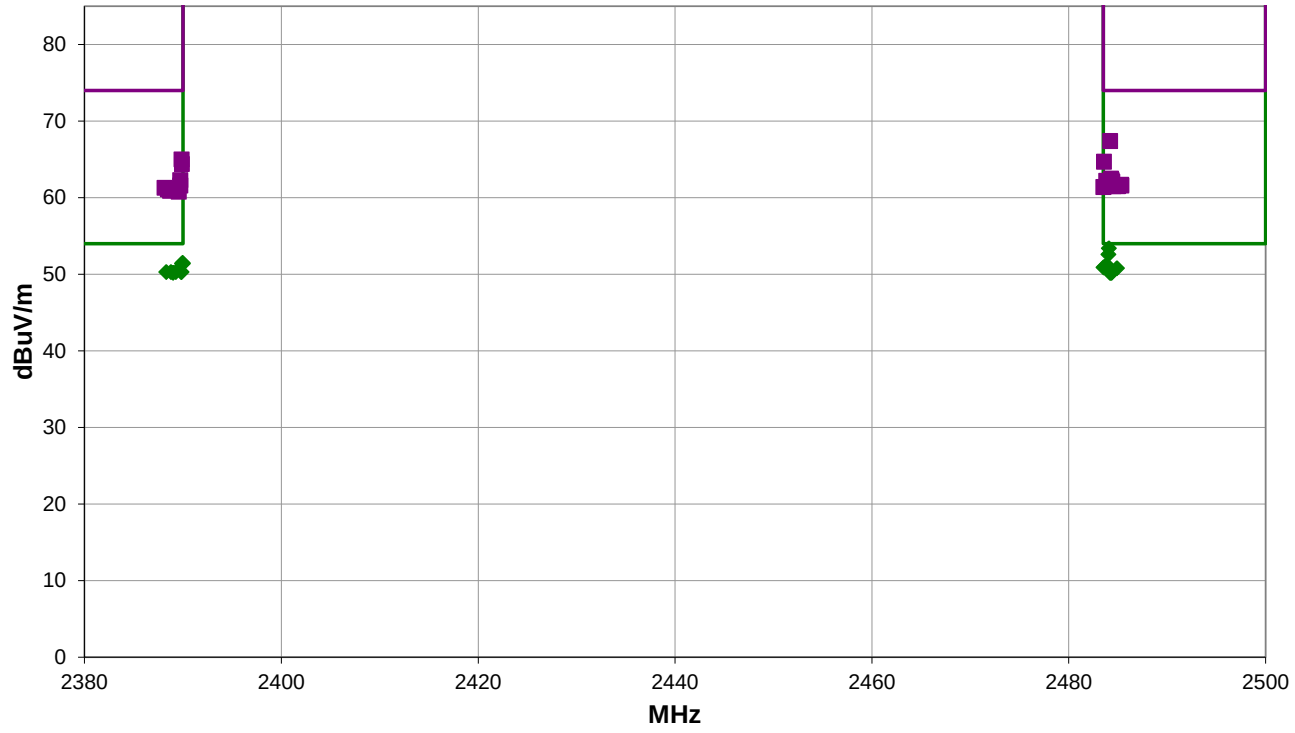
Please reference data comments below for: chain, channel, and data rate.
RMS Avg measurements that do not have DCCF applied are noise floor.

EUT OPERATING MODES

802.11ax - TX: Chain 0, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 45 ■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #45

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2484.073	33.4	-3.2	1.5	61.0	3.2	20.0	Horz	AV	0.0	53.4	54.0	-0.6	Chain 0, High Ch, 54 Mbps
2484.027	33.5	-3.2	1.5	61.0	2.3	20.0	Horz	AV	0.0	52.6	54.0	-1.4	Chain 0, High Ch, 36 Mbps
2389.967	34.5	-3.6	1.5	89.0	0.6	20.0	Vert	AV	0.0	51.5	54.0	-2.5	Chain 0, Low Ch VHT20 MCS8
2389.993	34.4	-3.6	1.5	89.0	0.6	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Chain 0, Low Ch, HE20 MCS7
2389.903	34.4	-3.6	1.5	89.0	0.6	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Chain 0, Low Ch, HT20 MCS7
2483.947	33.7	-3.2	1.5	61.0	0.6	20.0	Horz	AV	0.0	51.1	54.0	-2.9	Chain 0, High Ch, HT20 MCS7
2483.637	33.6	-3.2	1.5	61.0	0.6	20.0	Horz	AV	0.0	51.0	54.0	-3.0	Chain 0, High Ch, VHT20 MCS8
2483.730	33.6	-3.2	1.5	61.0	0.6	20.0	Horz	AV	0.0	51.0	54.0	-3.0	Chain 0, High Ch, HE20 MCS11
2483.797	33.8	-3.2	1.5	61.0	0.4	20.0	Horz	AV	0.0	51.0	54.0	-3.0	Chain 0, High Ch, 6 Mbps
2483.833	33.7	-3.2	1.5	89.0	0.4	20.0	Vert	AV	0.0	50.9	54.0	-3.1	Chain 0, High Ch, 6 Mbps
2483.527	33.5	-3.2	1.5	61.0	0.6	20.0	Horz	AV	0.0	50.9	54.0	-3.1	Chain 0, High Ch, VHT20 MCS0
2484.897	33.4	-3.2	1.5	61.0	0.0	20.0	Horz	AV	0.0	50.8	54.0	-3.2	Chain 0, High Ch, 11 Mbps
2388.780	33.3	-3.6	1.5	57.0	0.0	20.0	Horz	AV	0.0	50.3	54.0	-3.7	Chain 0, Low Ch, 1 Mbps
2389.820	33.3	-3.6	1.5	89.0	0.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	Chain 0, Low Ch, 1 Mbps
2388.303	33.3	-3.6	1.5	89.0	0.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	Chain 0, Low Ch, 6 Mbps
2389.273	33.3	-3.6	1.5	89.0	0.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	Chain 0, Low Ch, 36 Mbps
2389.857	33.3	-3.6	1.5	89.0	0.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	Chain 0, Low Ch, 54 Mbps
2484.180	33.4	-3.2	1.5	61.0	0.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	Chain 0, High Ch, HT20 MCS0
2484.357	33.4	-3.2	1.5	61.0	0.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	Chain 0, High Ch, HE20 MCS0
2484.263	33.4	-3.2	1.5	61.0	0.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	Chain 0, High Ch, 1 Mbps
2388.997	33.2	-3.6	1.5	57.0	0.0	20.0	Vert	AV	0.0	50.2	54.0	-3.8	Chain 0, Low Ch, 11 Mbps
2484.203	50.6	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	67.4	74.0	-6.6	Chain 0, High Ch, HE20 MCS11
2389.863	48.6	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	65.0	74.0	-9.0	Chain 0, Low Ch VHT20 MCS8
2483.577	47.9	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	64.7	74.0	-9.3	Chain 0, High Ch, VHT20 MCS8
2389.897	48.0	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	64.4	74.0	-9.6	Chain 0, Low Ch, HT20 MCS7
2484.290	45.7	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	62.5	74.0	-11.5	Chain 0, High Ch, VHT20 MCS0
2484.350	45.5	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	62.3	74.0	-11.7	Chain 0, High Ch, 6 Mbps
2389.723	45.9	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	62.3	74.0	-11.7	Chain 0, Low Ch, HE20 MCS7
2483.797	45.4	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	62.2	74.0	-11.8	Chain 0, High Ch, HT20 MCS7
2484.410	45.3	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	62.1	74.0	-11.9	Chain 0, High Ch, 1 Mbps
2485.320	44.9	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	61.7	74.0	-12.3	Chain 0, High Ch, HE20 MCS0
2485.033	44.8	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	61.6	74.0	-12.4	Chain 0, High Ch, 54 Mbps
2485.350	44.8	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	61.6	74.0	-12.4	Chain 0, High Ch, 11 Mbps
2389.733	45.2	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	61.6	74.0	-12.4	Chain 0, Low Ch, 54 Mbps
2484.997	44.7	-3.2	1.5	89.0	0.0	20.0	Vert	PK	0.0	61.5	74.0	-12.5	Chain 0, High Ch, 6 Mbps
2484.557	44.7	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	61.5	74.0	-12.5	Chain 0, High Ch, 36 Mbps
2483.513	44.6	-3.2	1.5	61.0	0.0	20.0	Horz	PK	0.0	61.4	74.0	-12.6	Chain 0, High Ch, HT20 MCS0
2388.133	44.9	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	61.3	74.0	-12.7	Chain 0, Low Ch, 36 Mbps
2388.637	44.7	-3.6	1.5	57.0	0.0	20.0	Horz	PK	0.0	61.1	74.0	-12.9	Chain 0, Low Ch, 1 Mbps
2388.467	44.7	-3.6	1.5	57.0	0.0	20.0	Vert	PK	0.0	61.1	74.0	-12.9	Chain 0, Low Ch, 11 Mbps
2388.683	44.5	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	60.9	74.0	-13.1	Chain 0, Low Ch, 6 Mbps
2389.570	44.4	-3.6	1.5	89.0	0.0	20.0	Vert	PK	0.0	60.8	74.0	-13.2	Chain 0, Low Ch, 1 Mbps

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

CONCLUSION
Pass

Tested By

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0071
Serial Number:	ACN214K220915001	Date:	2023-03-17
Customer:	Kymeta Corp.	Temperature:	20.1°C
Attendees:	Dean Busch and Mike Olsen	Relative Humidity:	34.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jeff Alcoke	Job Site:	EV01
Power:	24 VDC	Configuration:	KYME0071-6

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

TEST PARAMETERS

Run #:	48	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)

COMMENTS

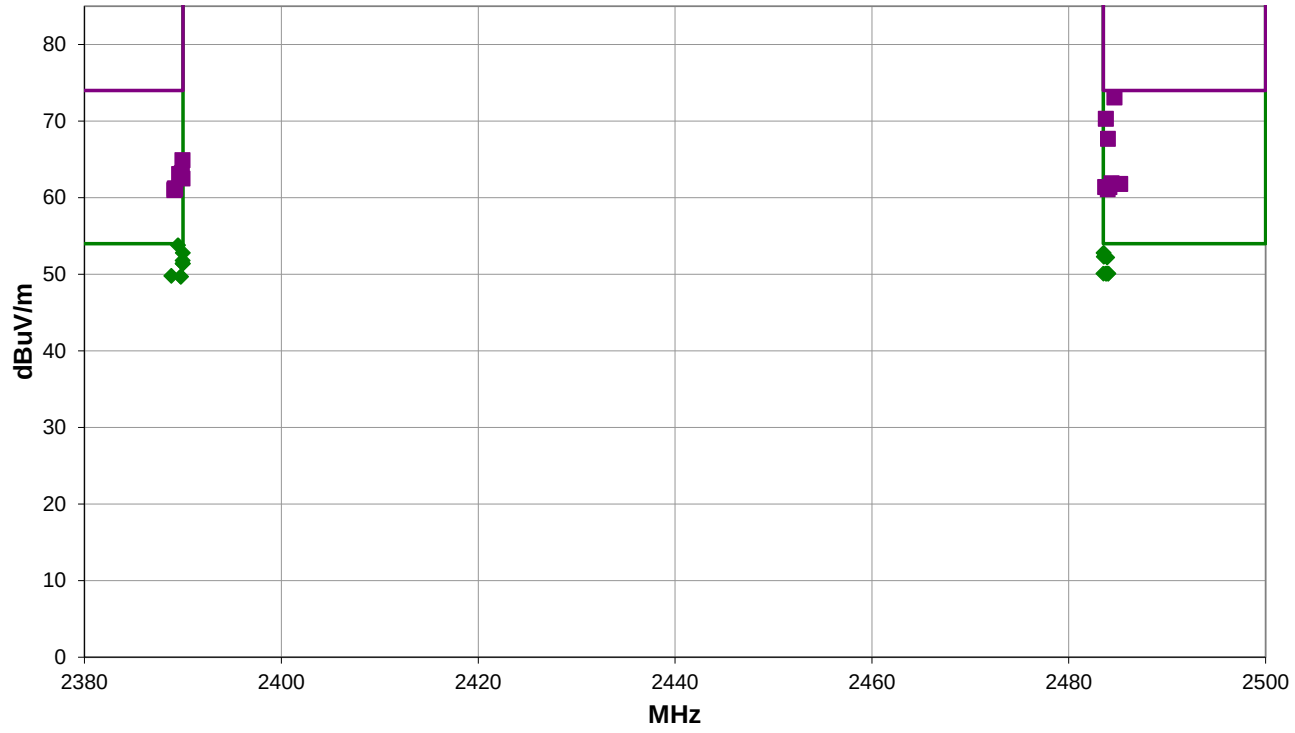
Please reference data comments below for: chain, channel, and data rate.
RMS Avg measurements that do not have DCCF applied are noise floor.

EUT OPERATING MODES

802.11ax - TX: Chain 1, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 48 PK AV QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #48

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
2389.500	32.6	-3.6	1.5	258.0	4.8	20.0	Vert	AV	0.0	53.8	54.0	-0.2	Chain 1, Low Ch, 11 Mbps
2484.637	56.3	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	73.1	74.0	-0.9	Chain 1, High Ch, HE20 MCS11
2483.537	35.4	-3.2	1.5	269.0	0.6	20.0	Vert	AV	0.0	52.8	54.0	-1.2	Chain 1, High Ch, HE20 MCS11
2389.987	34.4	-3.6	1.5	258.0	2.0	20.0	Vert	AV	0.0	52.8	54.0	-1.2	Chain 1, Low Ch, 1 Mbps
2483.557	34.9	-3.2	1.5	269.0	0.6	20.0	Vert	AV	0.0	52.3	54.0	-1.7	Chain 1, High Ch, VHT20 MCS8
2483.900	34.8	-3.2	1.5	269.0	0.6	20.0	Vert	AV	0.0	52.2	54.0	-1.8	Chain 1, High Ch, HT20 MCS7
2389.970	34.8	-3.6	1.5	258.0	0.6	20.0	Vert	AV	0.0	51.8	54.0	-2.2	Chain 1, Low Ch, HE20 MCS11
2389.977	34.4	-3.6	1.5	258.0	0.6	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Chain 1, Low Ch, HT20 MCS7
2389.977	34.4	-3.6	1.5	258.0	0.6	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Chain 1, Low Ch, VHT20 MCS8
2483.763	53.5	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	70.3	74.0	-3.7	Chain 1, High Ch, VHT20 MCS8
2483.770	33.3	-3.2	1.5	269.0	0.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Chain 1, High Ch, 1 Mbps
2483.980	33.3	-3.2	1.5	269.0	0.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Chain 1, High Ch, 11 Mbps
2483.800	33.3	-3.2	1.5	269.0	0.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Chain 1, High Ch, 6 Mbps
2483.520	33.3	-3.2	1.5	269.0	0.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Chain 1, High Ch, 36 Mbps
2484.023	33.3	-3.2	1.5	269.0	0.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Chain 1, High Ch, 54 Mbps
2388.820	33.4	-3.6	1.5	258.0	0.0	20.0	Vert	AV	0.0	49.8	54.0	-4.2	Chain 1, Low Ch, 54 Mbps
2389.800	33.3	-3.6	1.5	258.0	0.0	20.0	Vert	AV	0.0	49.7	54.0	-4.3	Chain 1, Low Ch, 6 Mbps
2389.763	33.3	-3.6	1.5	258.0	0.0	20.0	Vert	AV	0.0	49.7	54.0	-4.3	Chain 1, Low Ch, 36 Mbps
2483.977	50.9	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	67.7	74.0	-6.3	Chain 1, High Ch, HT20 MCS7
2389.947	48.5	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	64.9	74.0	-9.1	Chain 1, Low Ch, HE20 MCS11
2389.877	46.8	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	63.2	74.0	-10.8	Chain 1, Low Ch, 1 Mbps
2389.603	46.7	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	63.1	74.0	-10.9	Chain 1, Low Ch, 11 Mbps
2389.773	46.5	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	62.9	74.0	-11.1	Chain 1, Low Ch, VHT20 MCS8
2389.947	46.1	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	62.5	74.0	-11.5	Chain 1, Low Ch, HT20 MCS7
2484.347	45.1	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	61.9	74.0	-12.1	Chain 1, High Ch, 1 Mbps
2485.220	45.0	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	61.8	74.0	-12.2	Chain 1, High Ch, 36 Mbps
2484.137	44.6	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	61.4	74.0	-12.6	Chain 1, High Ch, 11 Mbps
2483.703	44.6	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	61.4	74.0	-12.6	Chain 1, High Ch, 6 Mbps
2389.160	44.8	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	61.2	74.0	-12.8	Chain 1, Low Ch, 36 Mbps
2389.227	44.8	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	61.2	74.0	-12.8	Chain 1, Low Ch, 54 Mbps
2483.960	44.3	-3.2	1.5	269.0	0.0	20.0	Vert	PK	0.0	61.1	74.0	-12.9	Chain 1, High Ch, 54 Mbps
2389.120	44.6	-3.6	1.5	258.0	0.0	20.0	Vert	PK	0.0	61.0	74.0	-13.0	Chain 1, Low Ch, 6 Mbps

CONCLUSION

Pass

Tested By

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0071
Serial Number:	ACN214K220915001	Date:	2023-03-17
Customer:	Kymeta Corp.	Temperature:	20.1°C
Attendees:	Dean Busch and Mike Olsen	Relative Humidity:	34.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jeff Alcoke	Job Site:	EV01
Power:	24 VDC	Configuration:	KYME0071-6

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

TEST PARAMETERS

Run #:	49	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)

COMMENTS

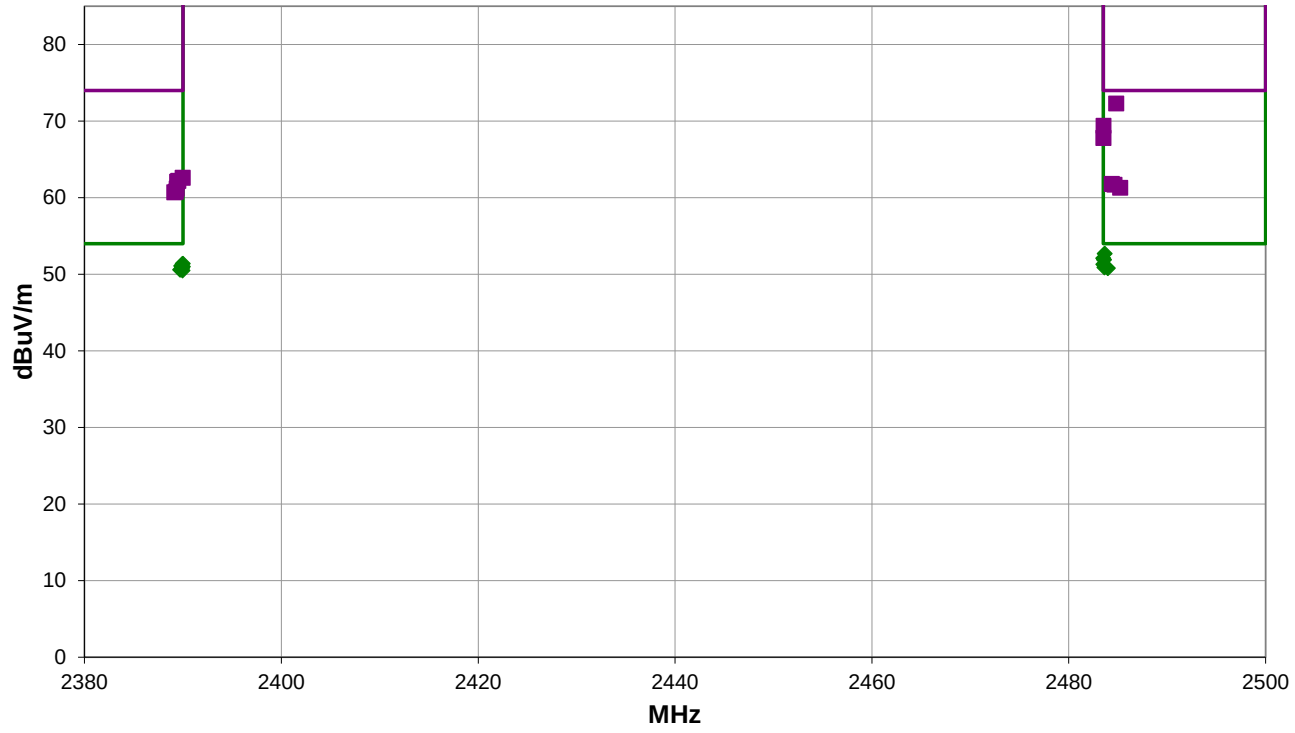
Please reference data comments below for: chain, channel, and data rate.
RMS Avg measurements that do not have DCCF applied are noise floor.

EUT OPERATING MODES

802.11ax - TX: Chain 01, Low Ch 1 = 2412 MHz, High Ch 11 = 2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 49 ■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #49

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
2483.647	35.3	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	52.7	54.0	-1.3	Chain 01, High Ch, HE20 MCS11
2484.827	55.5	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	72.3	74.0	-1.7	Chain 01, High Ch, HE20 MCS11
2483.500	34.7	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	52.1	54.0	-1.9	Chain 01, High Ch, HT20 MCS15
2483.583	34.5	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	51.9	54.0	-2.1	Chain 01, High Ch, VHT20 MCS8
2389.980	34.4	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Chain 01, Low CH, HE20 MCS11
2483.510	33.9	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	51.3	54.0	-2.7	Chain 01, High Ch, HT20 MCS8
2389.823	34.1	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	51.1	54.0	-2.9	Chain 01, High Ch, HT20 MCS15
2389.990	34.0	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	51.0	54.0	-3.0	Chain 01, High Ch, VHT20 MCS8
2483.620	33.5	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	50.9	54.0	-3.1	Chain 01, High Ch, HE20 MCS0
2483.970	33.4	-3.2	1.5	270.0	0.6	20.0	Vert	AV	0.0	50.8	54.0	-3.2	Chain 01, High Ch, VHT20 MCS0
2389.903	33.8	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	50.8	54.0	-3.2	Chain 01, Low Ch, HE20 MCS0
2389.713	33.6	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	50.6	54.0	-3.4	Chain 01, Low Ch, VHT20 MCS0
2389.957	33.5	-3.6	1.5	227.0	0.6	20.0	Vert	AV	0.0	50.5	54.0	-3.5	Chain 01, Low Ch, HT20 MCS8
2483.530	52.6	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	69.4	74.0	-4.6	Chain 01, High Ch, HT20 MCS15
2483.517	51.0	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	67.8	74.0	-6.2	Chain 01, High Ch, VHT20 MCS8
2389.980	46.2	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	62.6	74.0	-11.4	Chain 01, High Ch, VHT20 MCS8
2389.527	45.8	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	62.2	74.0	-11.8	Chain 01, High Ch, HT20 MCS15
2389.410	45.7	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	62.1	74.0	-11.9	Chain 01, Low CH, HE20 MCS11
2484.377	45.0	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	61.8	74.0	-12.2	Chain 01, High Ch, HT20 MCS8
2484.637	44.9	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	61.7	74.0	-12.3	Chain 01, High Ch, VHT20 MCS0
2485.227	44.5	-3.2	1.5	270.0	0.0	20.0	Vert	PK	0.0	61.3	74.0	-12.7	Chain 01, High Ch, HE20 MCS0
2389.367	44.8	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	61.2	74.0	-12.8	Chain 01, Low Ch, HE20 MCS0
2389.290	44.4	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	60.8	74.0	-13.2	Chain 01, Low Ch, VHT20 MCS0
2389.113	44.3	-3.6	1.5	227.0	0.0	20.0	Vert	PK	0.0	60.7	74.0	-13.3	Chain 01, Low Ch, HT20 MCS8

CONCLUSION

Pass

Tested By

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0082
Serial Number:	ACN214K220915001	Date:	2023-06-16
Customer:	Kymeta Corp.	Temperature:	21.8°C
Attendees:	None	Relative Humidity:	45.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Harry Zhao	Job Site:	NC01
Power:	24 VDC	Configuration:	KYME0082-9

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013

TEST PARAMETERS

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

COMMENTS

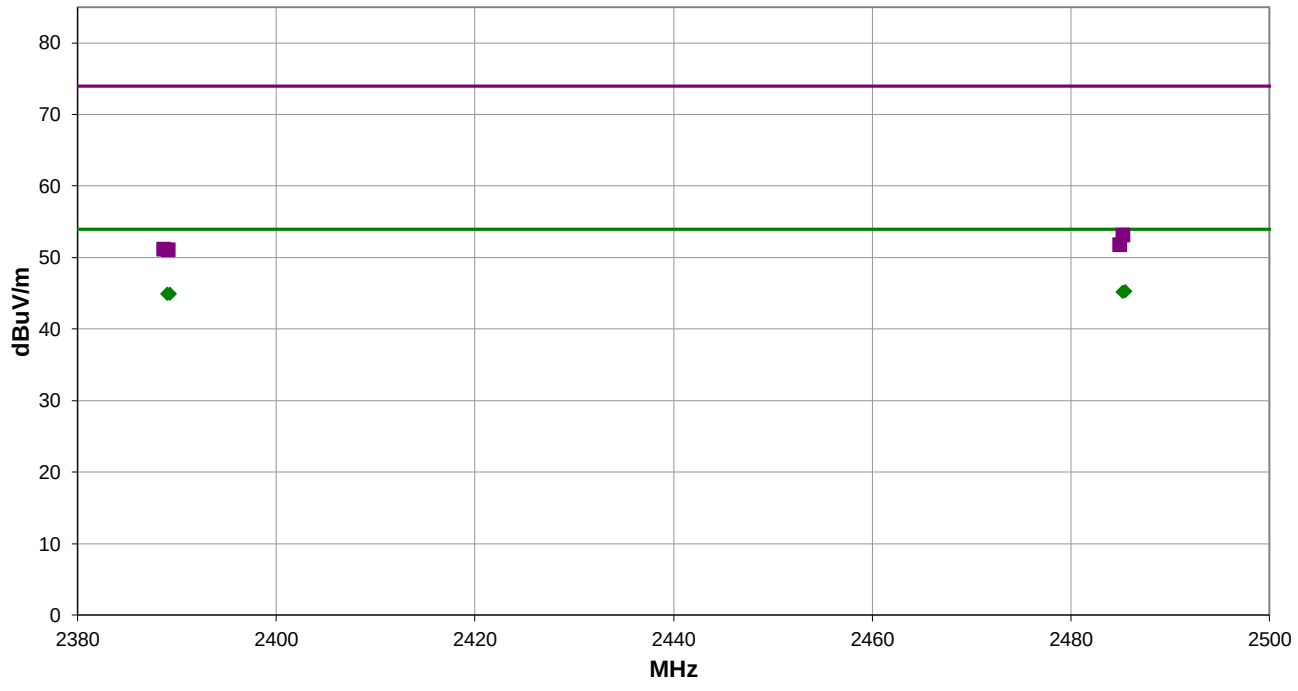
See data comments below for channel, data rates, and chain.

EUT OPERATING MODES

802.11ax - TX: Chain 0, Low Ch 1 =2412 MHz, High Ch 11=2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 1 ■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #1

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
2485.473	29.2	1.3	4.0	41.0	4.8	10.0	Horz	AV	0.0	45.3	54.0	-8.7	Chain 0, High Ch., 11 Mbps
2485.240	29.1	1.3	2.5	255.0	4.8	10.0	Vert	AV	0.0	45.2	54.0	-8.8	Chain 0, High Ch., 11 Mbps
2389.043	29.0	1.1	1.5	141.0	4.8	10.0	Vert	AV	0.0	44.9	54.0	-9.1	Chain 0, Low Ch., 11 Mbps
2389.280	29.0	1.1	1.5	247.0	4.8	10.0	Horz	AV	0.0	44.9	54.0	-9.1	Chain 0, Low Ch., 11 Mbps
2485.330	41.8	1.3	2.5	255.0	0.0	10.0	Vert	PK	0.0	53.1	74.0	-20.9	Chain 0, High Ch., 11 Mbps
2484.987	40.4	1.3	4.0	41.0	0.0	10.0	Horz	PK	0.0	51.7	74.0	-22.3	Chain 0, High Ch., 11 Mbps
2388.723	40.0	1.1	1.5	247.0	0.0	10.0	Horz	PK	0.0	51.1	74.0	-22.9	Chain 0, Low Ch., 11 Mbps
2389.157	39.9	1.1	1.5	141.0	0.0	10.0	Vert	PK	0.0	51.0	74.0	-23.0	Chain 0, Low Ch., 11 Mbps

CONCLUSION

Pass

Tested By

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

EUT:	U8 Hawk	Work Order:	KYME0082
Serial Number:	ACN214K220915001	Date:	2023-06-16
Customer:	Kymeta Corp.	Temperature:	21.8°C
Attendees:	None	Relative Humidity:	45.3%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Harry Zhao	Job Site:	NC01
Power:	24 VDC	Configuration:	KYME0082-9

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.247:2023	ANSI C63.10:2013

TEST PARAMETERS

Run #:	2	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)

COMMENTS

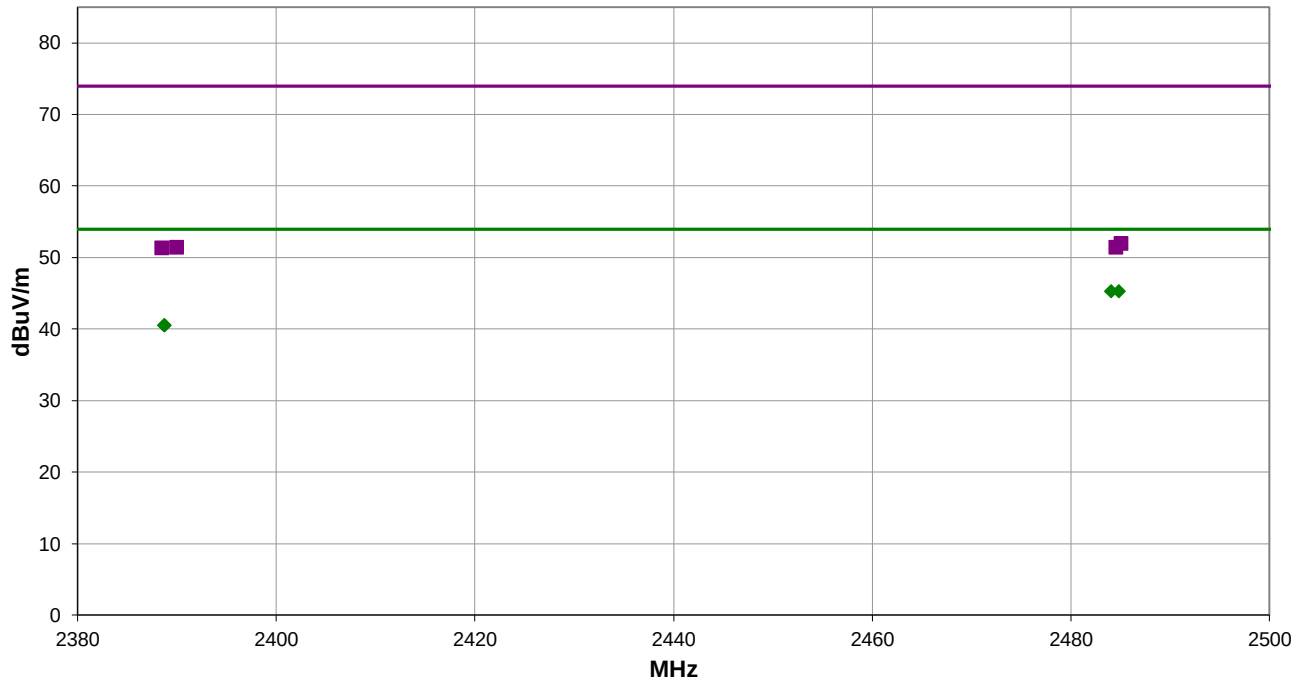
See data comments below for channel, data rates, and chain.

EUT OPERATING MODES

802.11ax - TX: Chain 1, Low Ch 1 =2412 MHz, High Ch 11=2462 MHz

DEVIATIONS FROM TEST STANDARD

None



Run #: 2 ■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

element
WTD.2023.02.14.0
EmiR5 2022.07.06.0
PSA-ESCI 2023.02.14.0

RESULTS - Run #2

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
2484.070	29.2	1.3	1.5	282.0	4.8	10.0	Horz	AV	0.0	45.3	54.0	-8.7	Chain 1, High Ch., 11 Mbps
2484.870	29.2	1.3	1.5	243.0	4.8	10.0	Vert	AV	0.0	45.3	54.0	-8.7	Chain 1, High Ch., 11 Mbps
2388.710	29.0	1.1	3.0	43.0	0.4	10.0	Horz	AV	0.0	40.5	54.0	-13.5	Chain 1, Low Ch., 6 Mbps
2388.757	29.0	1.1	1.8	47.0	0.4	10.0	Vert	AV	0.0	40.5	54.0	-13.5	Chain 1, Low Ch., 6 Mbps
2485.127	40.6	1.3	1.5	282.0	0.0	10.0	Horz	PK	0.0	51.9	74.0	-22.1	Chain 1, High Ch., 11 Mbps
2389.983	40.3	1.1	1.8	47.0	0.0	10.0	Vert	PK	0.0	51.4	74.0	-22.6	Chain 1, Low Ch., 6 Mbps
2484.613	40.1	1.3	1.5	243.0	0.0	10.0	Vert	PK	0.0	51.4	74.0	-22.6	Chain 1, High Ch., 11 Mbps
2388.530	40.2	1.1	3.0	43.0	0.0	10.0	Horz	PK	0.0	51.3	74.0	-22.7	Chain 1, Low Ch., 6 Mbps

CONCLUSION

Pass

Tested By

End of Test Report