

POWER SPECTRAL DENSITY



XMH 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Attenuator	Fairview Microwave	SA4018-20	TYW	2022-03-01	2023-03-01
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXJ	2022-09-09	2023-09-09
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

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

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

POWER SPECTRAL DENSITY



TSTx 2022.06.03.0 XMR 2022.02.07.0

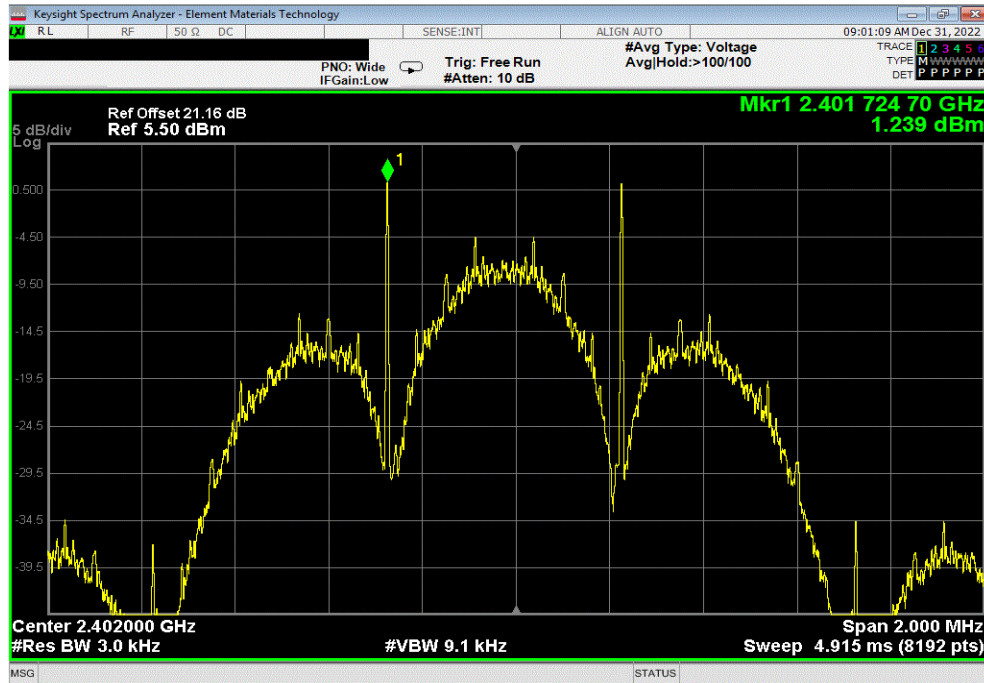
EUT: CAN Go		Work Order: ANNC0001	
Serial Number: EC21-A		Date: 30-Dec-22	
Customer: CAN Mobilities Inc.		Temperature: 22.9 °C	
Attendees: None		Humidity: 36.5% RH	
Project: None		Barometric Pres.: 1017 mbar	
Tested by: Jarrod Brenden		Power: 4.05 VDC via Battery	
		Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2022		Test Method	
		ANSI C63.10:2013	
COMMENTS			
All losses in the measurement path were accounted for: cable, attenuator, and DC block (21.16 dB).			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature 	
		Value dBm/3kHz	Limit < dBm/3kHz
Results			
GFSK			
125 kbps			
	Low Channel, 2402 MHz	1.239	8
	Mid Channel, 2442 MHz	1.228	8
	High Channel, 2480 MHz	1.022	8
500 kbps			
	Low Channel, 2402 MHz	1.006	8
	Mid Channel, 2442 MHz	1.018	8
	High Channel, 2480 MHz	0.799	8
1 Mbps			
	Low Channel, 2402 MHz	-6.927	8
	Mid Channel, 2442 MHz	-6.941	8
	High Channel, 2480 MHz	-7.171	8
2 Mbps			
	Low Channel, 2402 MHz	-10.713	8
	Mid Channel, 2442 MHz	-10.725	8
	High Channel, 2480 MHz	-10.991	8

POWER SPECTRAL DENSITY

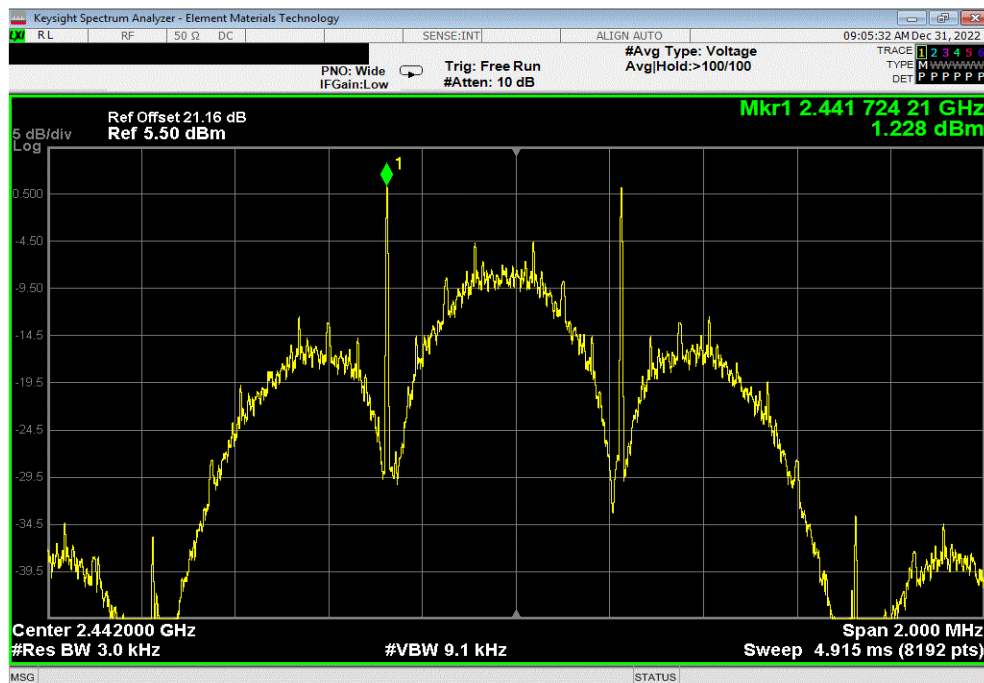


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 125 kbps, Low Channel, 2402 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	1.239	8	Pass			



GFSK, 125 kbps, Mid Channel, 2442 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	1.228	8	Pass			

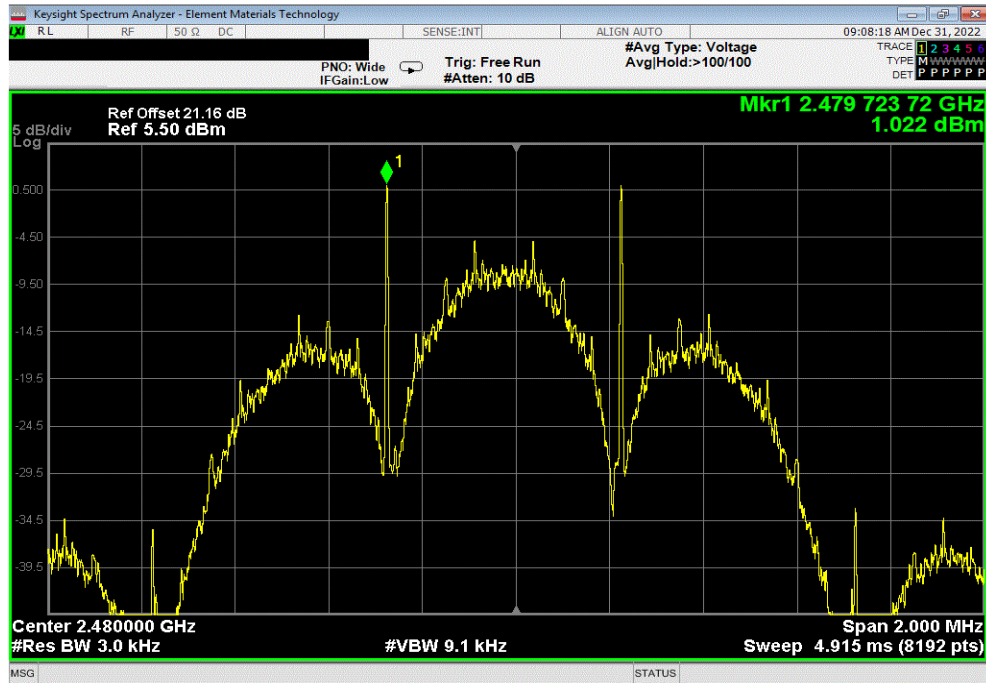


POWER SPECTRAL DENSITY

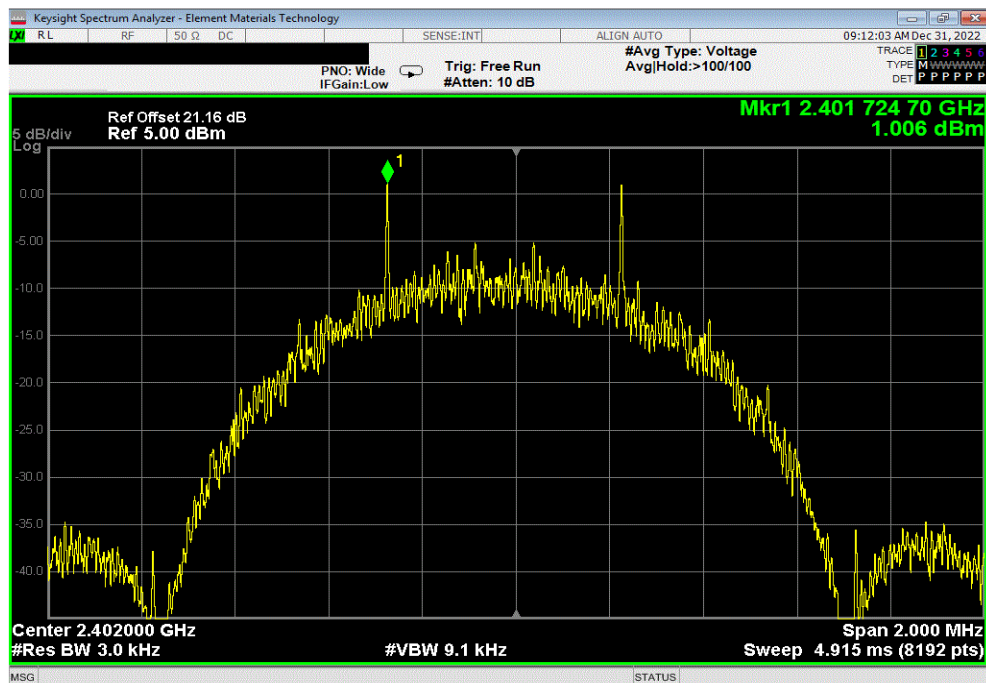


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 125 kbps, High Channel, 2480 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	1.022	8	Pass			



GFSK, 500 kbps, Low Channel, 2402 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	1.006	8	Pass			

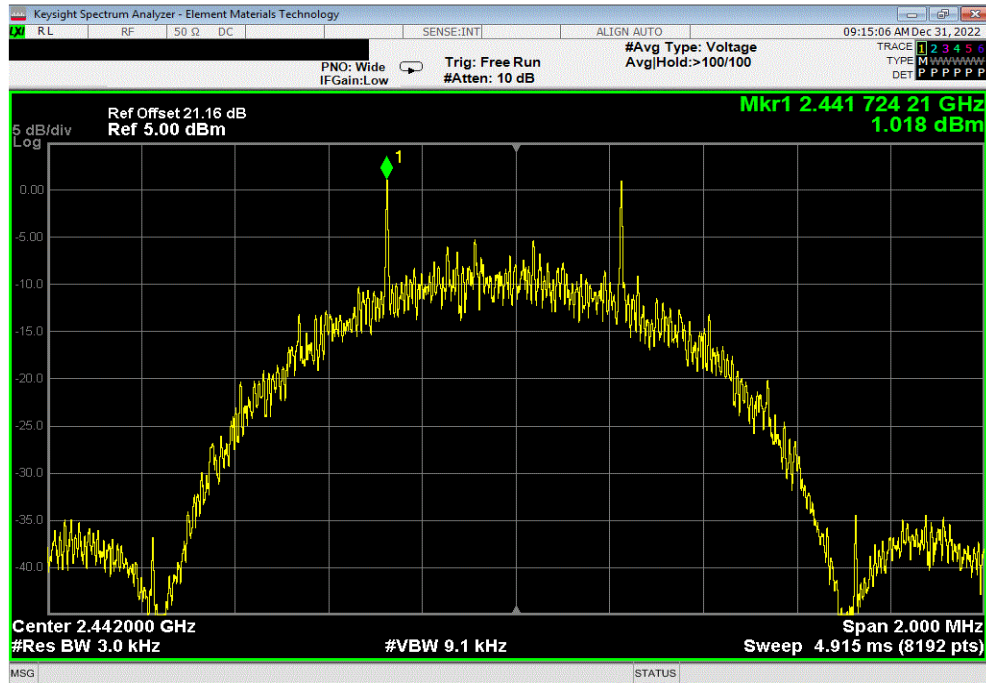


POWER SPECTRAL DENSITY

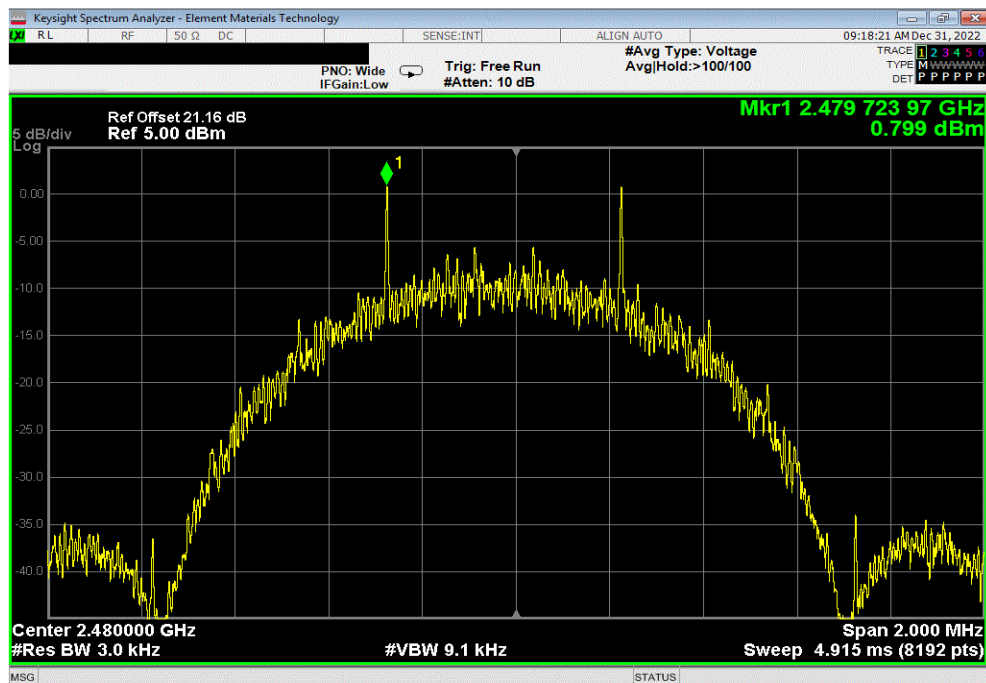


TbTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 500 kbps, Mid Channel, 2442 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	1.018	8	Pass			



GFSK, 500 kbps, High Channel, 2480 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	0.799	8	Pass			

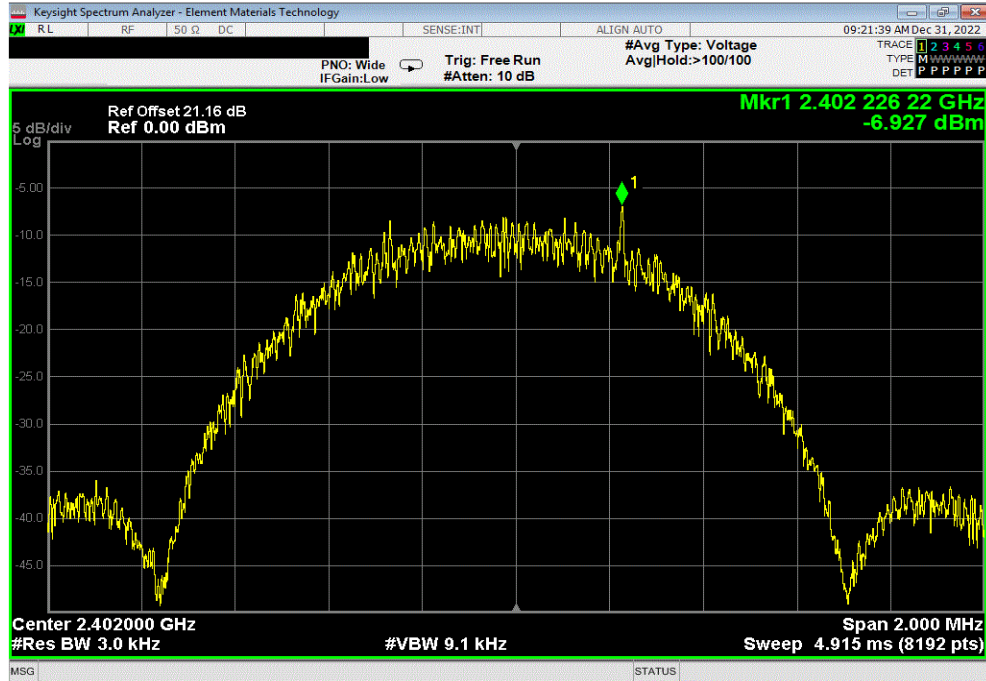


POWER SPECTRAL DENSITY

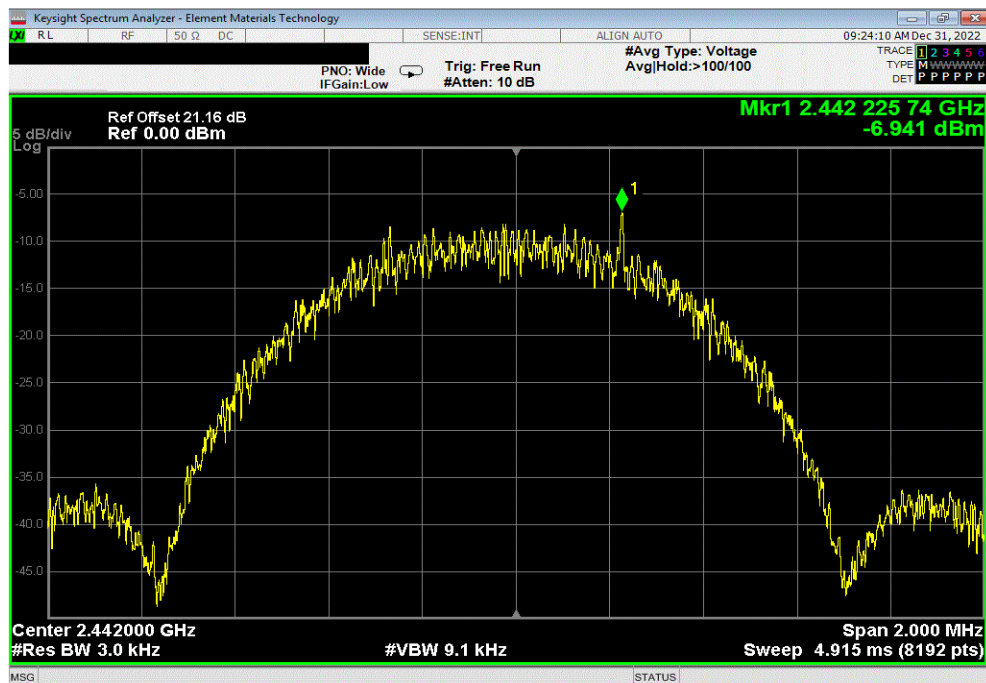


TbTtX 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, Low Channel, 2402 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-6.927	8	Pass			



GFSK, 1 Mbps, Mid Channel, 2442 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-6.941	8	Pass			

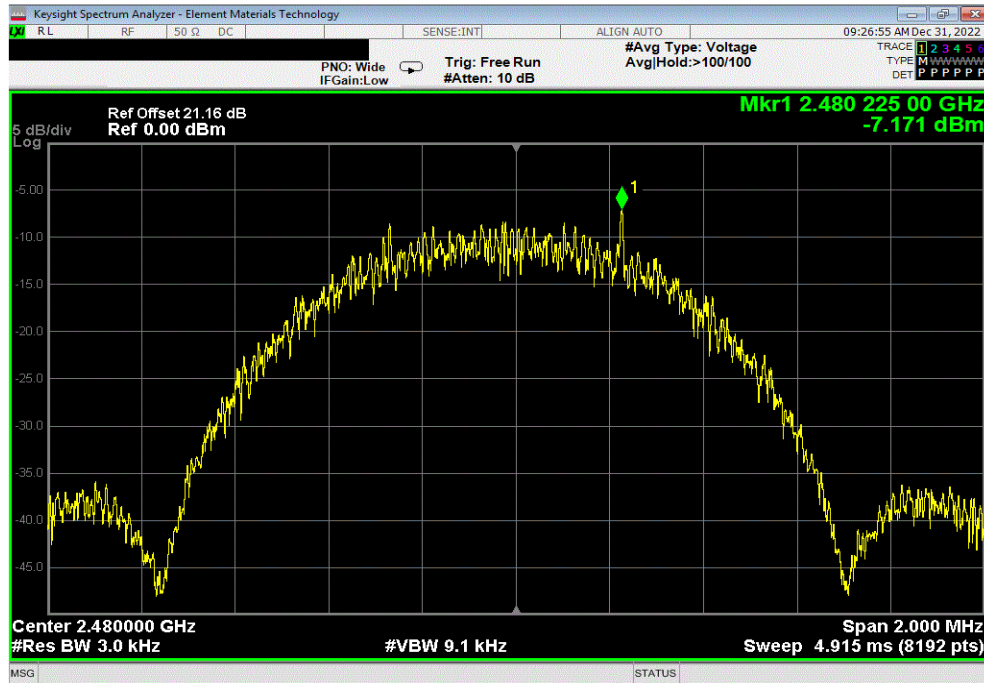


POWER SPECTRAL DENSITY

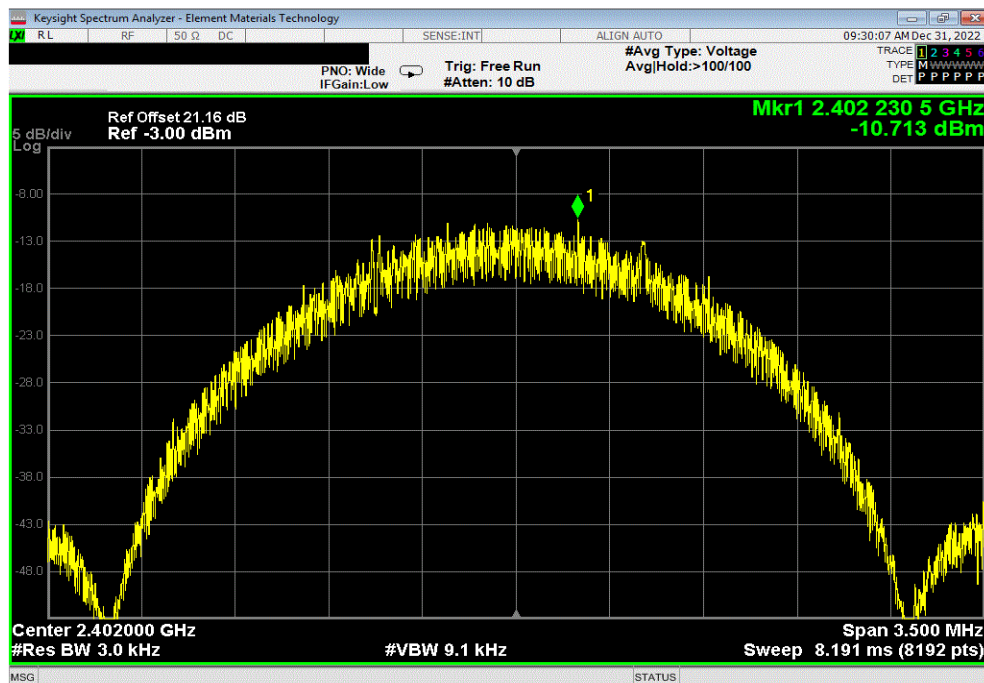


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 1 Mbps, High Channel, 2480 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-7.171	8	Pass			



GFSK, 2 Mbps, Low Channel, 2402 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-10.713	8	Pass			

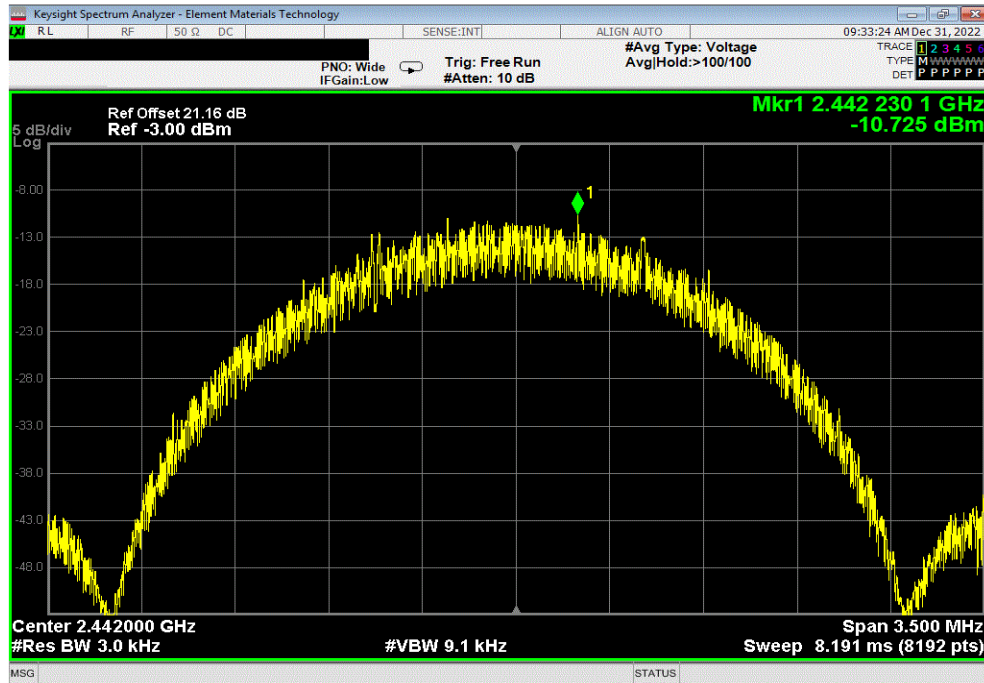


POWER SPECTRAL DENSITY

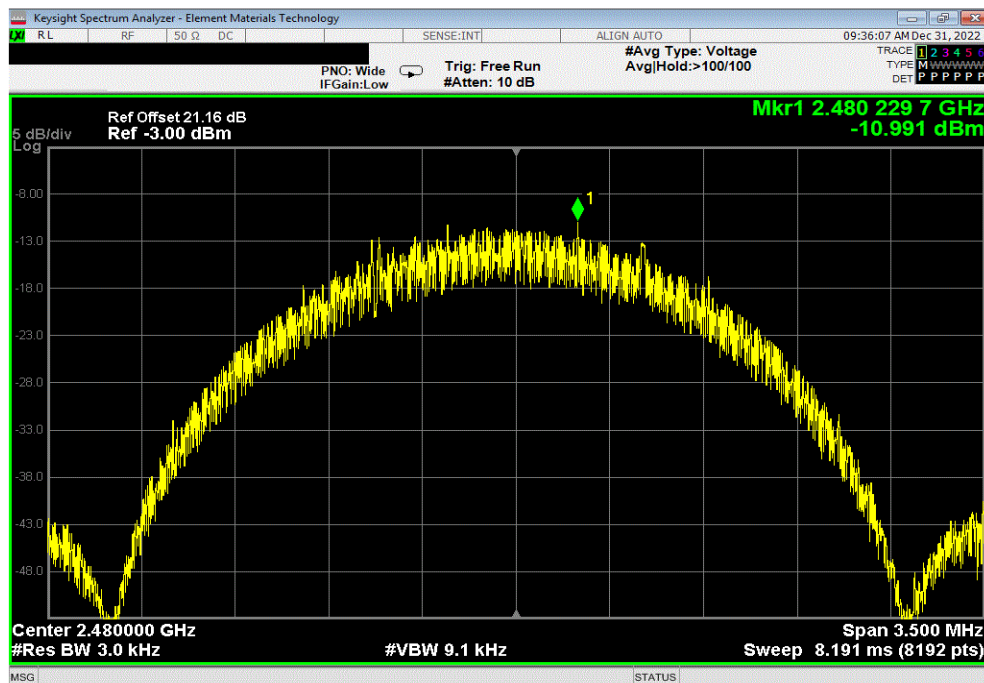


TbTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 2 Mbps, Mid Channel, 2442 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	-10.725	8	Pass			



GFSK, 2 Mbps, High Channel, 2480 MHz						
	Value	Limit	Results			
	dBm/3kHz	< dBm/3kHz				
	-10.991	8	Pass			



BAND EDGE COMPLIANCE



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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Attenuator	Fairview Microwave	SA4018-20	TYW	2022-03-01	2023-03-01
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXJ	2022-09-09	2023-09-09
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

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

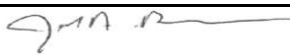
The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE



TSTx 2022.06.03.0 XMR 2022.02.07.0

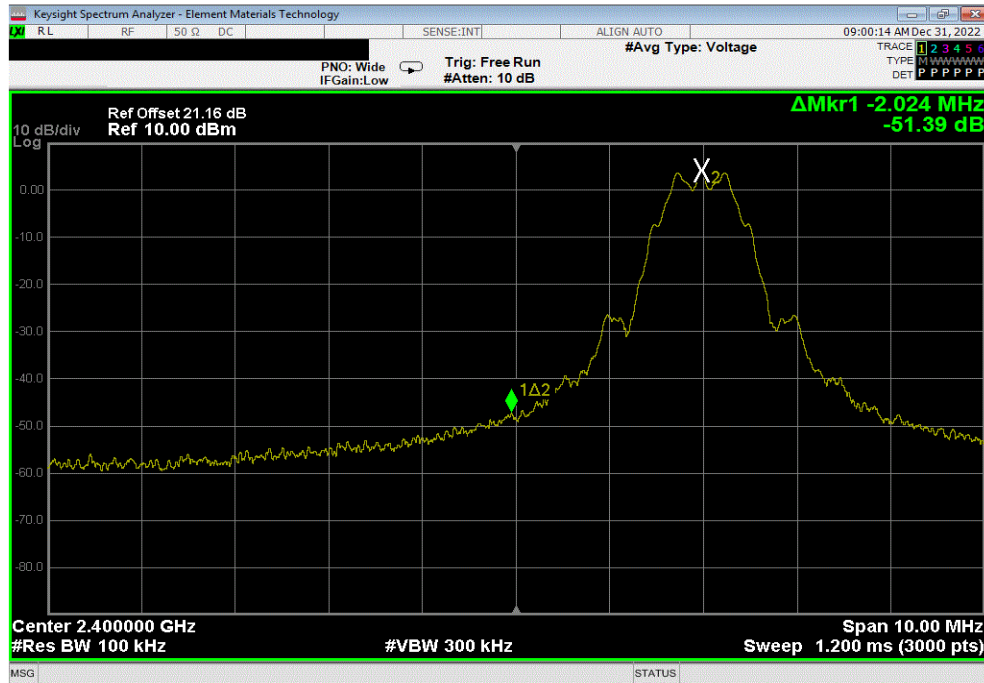
EUT: CAN Go		Work Order: ANNC0001	
Serial Number: EC21-A		Date: 30-Dec-22	
Customer: CAN Mobilities Inc.		Temperature: 22.5 °C	
Attendees: None		Humidity: 36.9% RH	
Project: None		Barometric Pres.: 1017 mbar	
Tested by: Jarrod Brenden		Power: 4.05 VDC via Battery	
		Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2022		Test Method	
		ANSI C63.10:2013	
COMMENTS			
All losses in the measurement path were accounted for: cable, attenuator, and DC block (21.16 dB).			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature 	
		Value (dBc)	Limit ≤ (dBc)
Result			
GFSK			
125 kbps	Low Channel, 2402 MHz	-51.39	-20
	High Channel, 2480 MHz	-57.14	-20
500 kbps	Low Channel, 2402 MHz	-54.23	-20
	High Channel, 2480 MHz	-60.32	-20
1 Mbps	Low Channel, 2402 MHz	-54.1	-20
	High Channel, 2480 MHz	-60.06	-20
2 Mbps	Low Channel, 2402 MHz	-30.85	-20
	High Channel, 2480 MHz	-53.32	-20

BAND EDGE COMPLIANCE

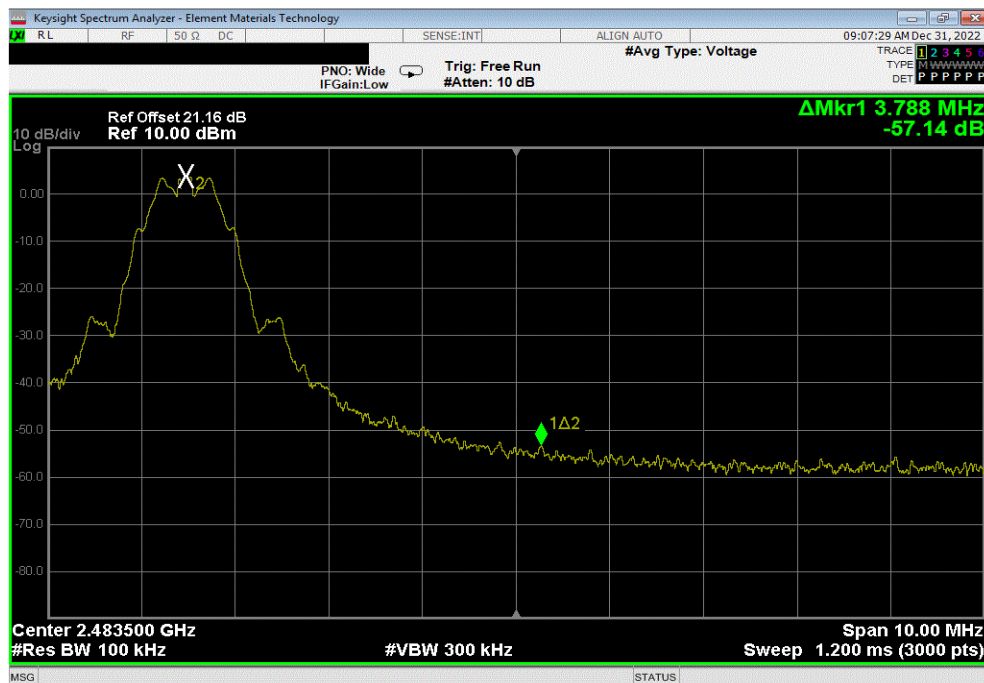


TMTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 125 kbps, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-51.39	-20	Pass



GFSK, 125 kbps, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-57.14	-20	Pass

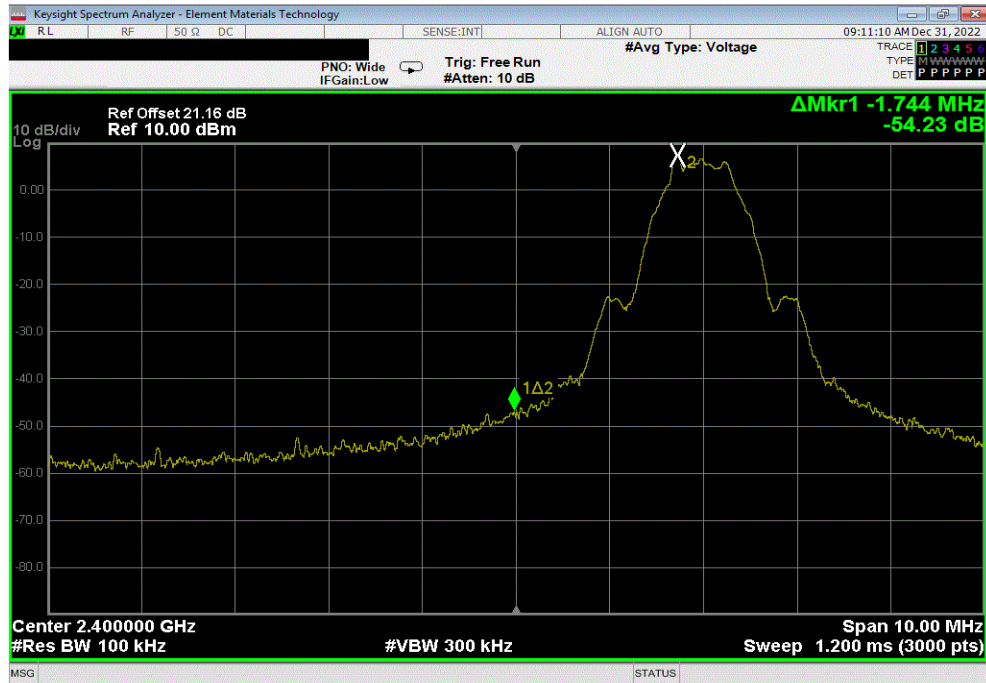


BAND EDGE COMPLIANCE

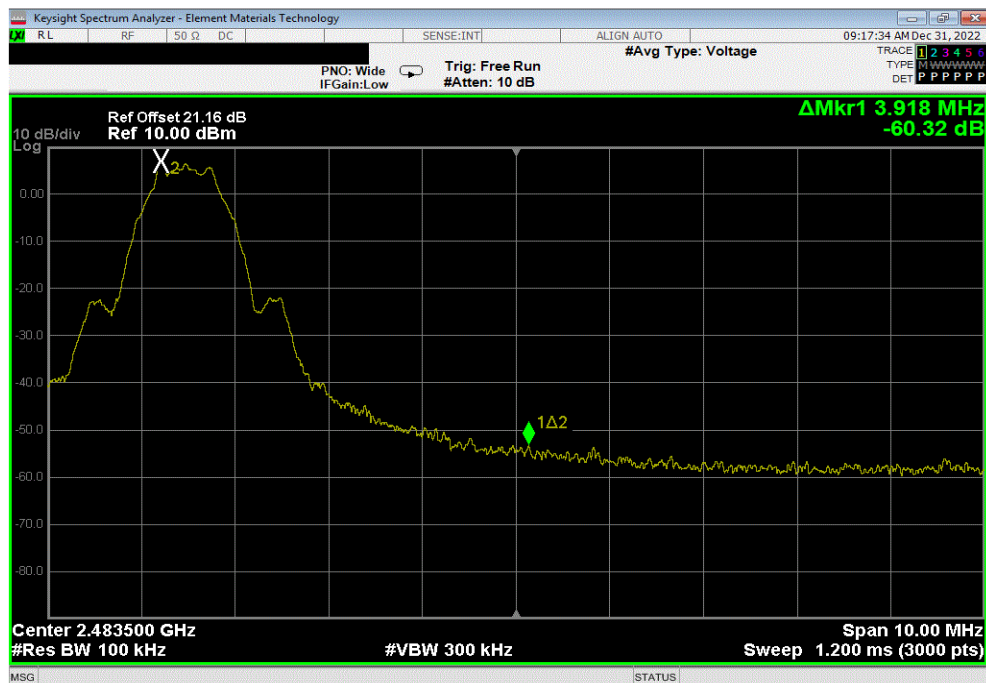


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 500 kbps, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-54.23	-20	Pass



GFSK, 500 kbps, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-60.32	-20	Pass

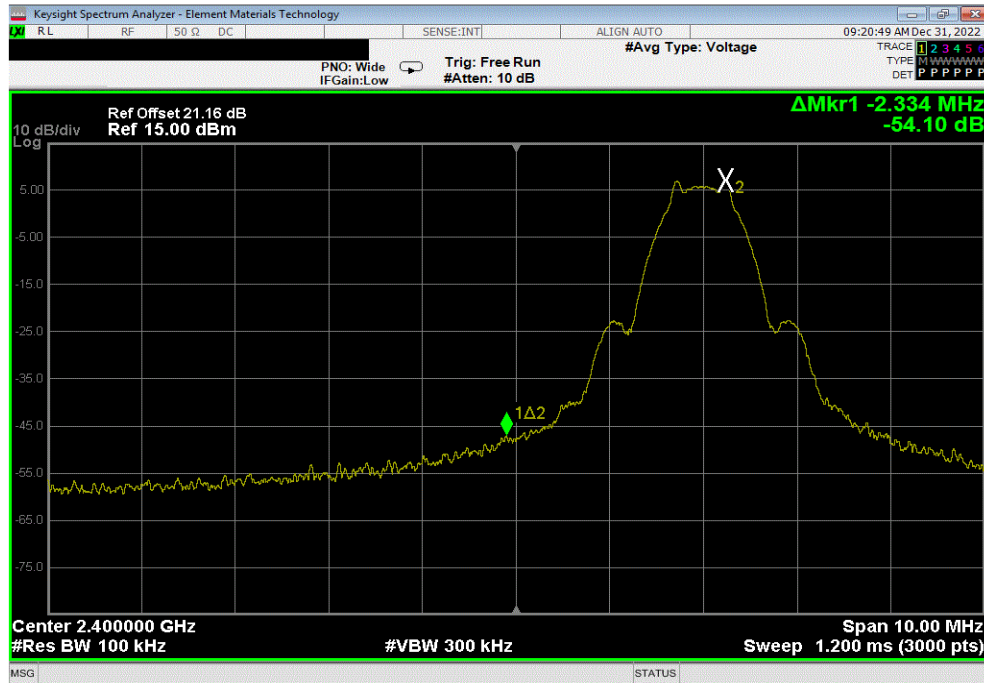


BAND EDGE COMPLIANCE

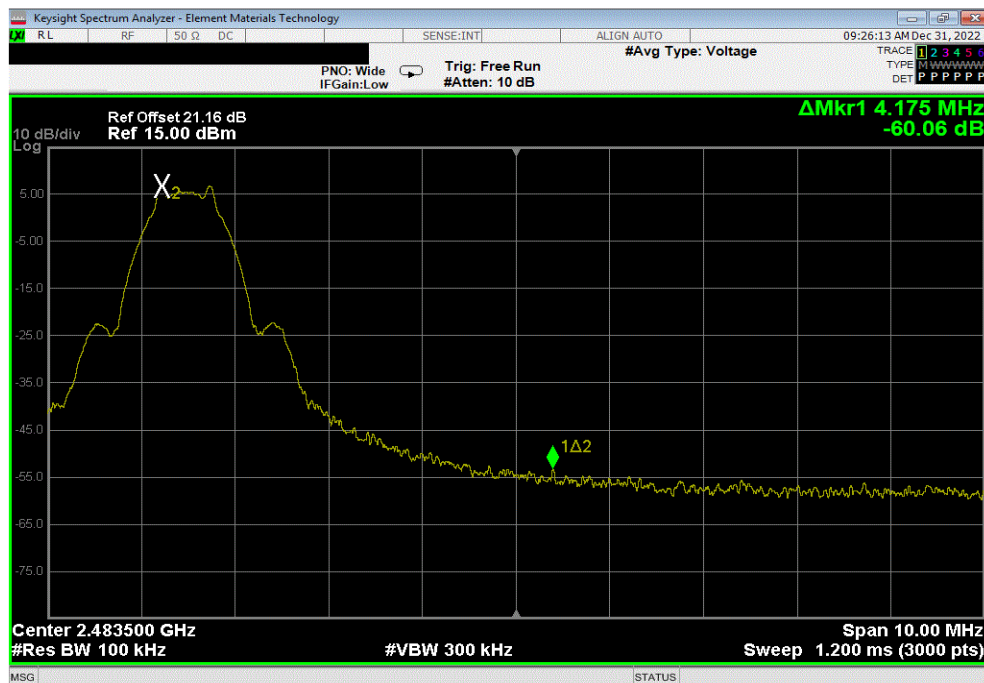


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-54.1	-20	Pass



GFSK, 1 Mbps, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-60.06	-20	Pass

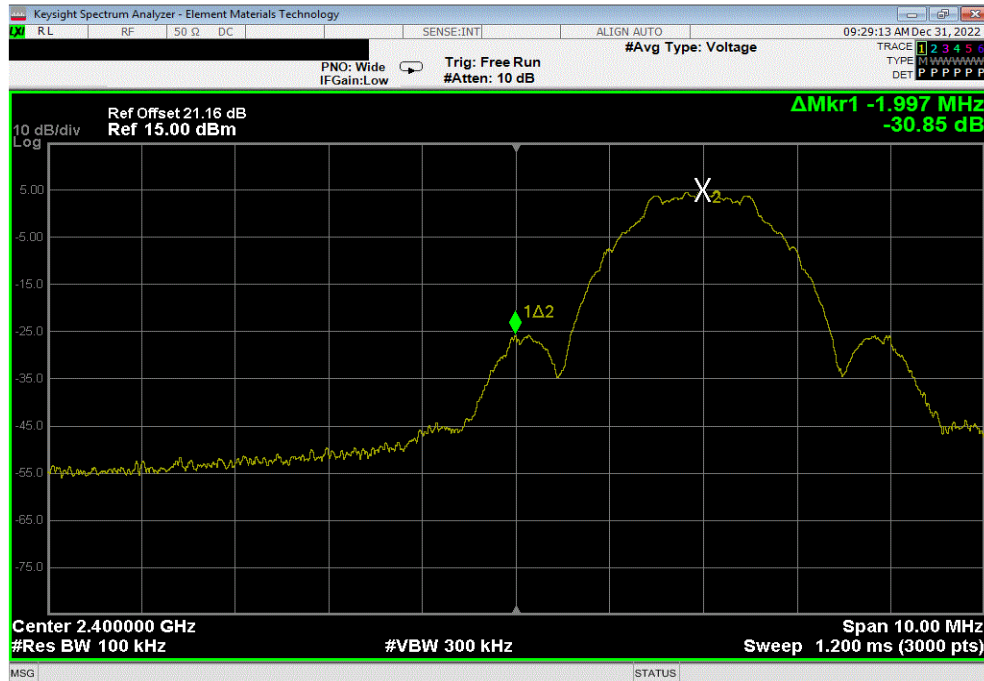


BAND EDGE COMPLIANCE

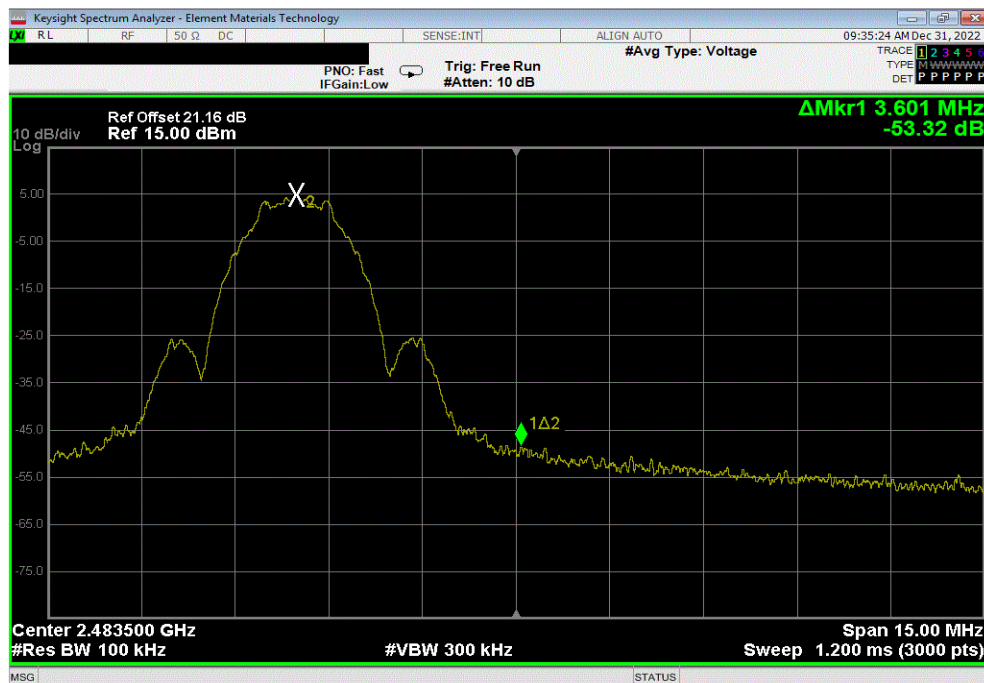


TbTtx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 2 Mbps, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-30.85	-20	Pass



GFSK, 2 Mbps, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-53.32	-20	Pass



SPURIOUS RADIATED EMISSIONS - OUTSIDE OF THE RESTRICTED BANDS



PSA-ESCI 2022.1.12.0

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

CHANNELS OF OPERATION

BTLE 5.2, Low Channel 2402 MHz, Power Level 8dBm
BTLE 5.2, Mid Channel 2442 MHz, Power Level 8dBm
BTLE 5.2, High Channel 2480 MHz, Power Level 8dBm

MODES OF OPERATION

BTLE 5.2, 2 Mbps Data Rate
BTLE 5.2, 1 Mbps Data Rate
BTLE 5.2, 500 kbps Data Rate
BTLE 5.2, 125 kbps Data Rate

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

ANNC0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26500 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2021-05-24	2022-05-24
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2021-05-24	2022-05-24
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2020-06-25	2022-06-25
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2021-09-13	2022-09-13
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2021-09-15	2022-09-15
Cable	Northwest EMC	18-40GHz	TXE	2021-09-13	2022-09-13
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2020-09-02	2022-09-02
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2021-09-13	2022-09-13
Cable	Northwest EMC	8-18GHz	TXD	2021-04-30	2022-04-30
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2021-05-24	2022-05-24
Cable	Northwest EMC	1-8.2 GHz	TXC	2021-05-24	2022-05-24
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2020-10-20	2022-10-20
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2021-07-27	2022-07-27
Filter - High Pass	Micro-Tronics	HPM50111	HGC	2021-03-09	2022-03-09
Attenuator	Weinschel Corp	4H-20	AWB	2021-03-09	2022-03-09
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11

TEST DESCRIPTION

The measurement was made in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

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.

SPURIOUS RADIATED EMISSIONS - OUTSIDE OF THE RESTRICTED BANDS

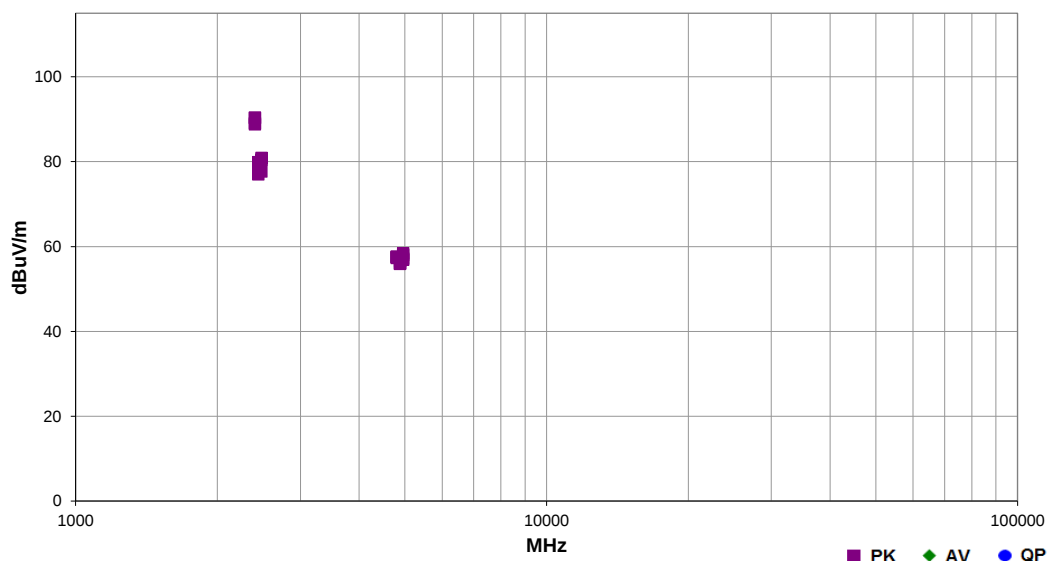


EmiPS 2021.09.09.0 PSA-ESCI 2022.1.12.0

Work Order:	ANNC0001	Date:	2022-02-09	
Project:	None	Temperature:	22.3 °C	
Job Site:	TX02	Humidity:	24% RH	
Serial Number:	869260049954217	Barometric Pres.:	1016 mbar	
EUT:		CAN Go		
Configuration:	1			
Customer:	CAN Mobilities Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting Bluetooth LE, reference data comments for data rate and channel			
Deviations:	None			
Comments:	Measurements performed using RBW/VBW set equal to 100 kHz and 300 kHz respectively. The EUT was orientated in the worst case position relative to the receive antenna.			

Test Specifications	Test Method
FCC 15.247:2022	ANSI C63.10:2013

Run #	29	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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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 (dBc)	Compared to Spec. (dB)	Comments
2401.730	76.2	-5.8	3.14	22.9	3.0	20.0	Horz	PK	0.0	90.4	N/A	N/A	Fundamental, 500kbps, Low Channel
4805.105	32.0	5.6	1.5	253.3	3.0	20.0	Horz	PK	0.0	57.6	-20.0	-32.8	Emission, 500kbps, Low Channel
2402.245	76.1	-5.8	3.14	22.9	3.0	20.0	Horz	PK	0.0	90.3	N/A	N/A	Fundamental, 1Mbps, Low Channel
4804.465	31.9	5.6	1.94	241.7	3.0	20.0	Horz	PK	0.0	57.5	-20.0	-32.8	Emission, 1Mbps, Low Channel
2402.000	74.9	-5.8	3.14	22.9	3.0	20.0	Horz	PK	0.0	89.1	N/A	N/A	Fundamental, 2Mbps, Low Channel
4805.495	31.7	5.6	1.5	267.0	3.0	20.0	Horz	PK	0.0	57.3	-20.0	-31.8	Emission, 2Mbps, Low Channel
2401.940	74.6	-5.8	3.14	22.9	3.0	20.0	Horz	PK	0.0	88.8	N/A	N/A	Fundamental, 125kbps, Low Channel
4803.305	32.0	5.6	1.5	39.0	3.0	20.0	Horz	PK	0.0	57.6	-20.0	-31.2	Emission, 125kbps, Low Channel
2480.250	66.4	-5.5	1.49	193.0	3.0	20.0	Horz	PK	0.0	80.9	N/A	N/A	Fundamental, 1Mbps, High Channel
4959.850	32.4	6.0	2.29	176.4	3.0	20.0	Horz	PK	0.0	58.4	-20.0	-22.5	Emission, 1Mbps, High Channel
2479.730	66.0	-5.5	1.49	193.0	3.0	20.0	Horz	PK	0.0	80.5	N/A	N/A	Fundamental, 500kbps, High Channel
4960.940	31.2	6.0	1.0	176.4	3.0	20.0	Horz	PK	0.0	57.2	-20.0	-23.3	Emission, 500kbps, High Channel
2479.990	65.9	-5.5	1.49	193.0	3.0	20.0	Horz	PK	0.0	80.4	N/A	N/A	Fundamental, 2Mbps, High Channel
4959.800	32.0	6.0	1.5	213.9	3.0	20.0	Horz	PK	0.0	58.0	-20.0	-22.4	Emission, 2Mbps, High Channel
2441.730	65.5	-5.6	3.08	100.9	3.0	20.0	Horz	PK	0.0	79.9	N/A	N/A	Fundamental, 500kbps, Mid Channel
4885.340	30.8	5.8	1.5	315.0	3.0	20.0	Horz	PK	0.0	56.6	-20.0	-23.3	Emission, 500kbps, Mid Channel
2442.000	64.8	-5.6	3.08	100.9	3.0	20.0	Horz	PK	0.0	79.2	N/A	N/A	Fundamental, 1Mbps, Mid Channel
4883.700	30.3	5.8	1.5	315.0	3.0	20.0	Horz	PK	0.0	56.1	-20.0	-23.1	Emission, 1Mbps, Mid Channel
2441.495	64.3	-5.6	3.08	100.9	3.0	20.0	Horz	PK	0.0	78.7	N/A	N/A	Fundamental, 2Mbps, Mid Channel
4883.900	30.2	5.8	1.5	315.0	3.0	20.0	Horz	PK	0.0	56.0	-20.0	-22.7	Emission, 2Mbps, Mid Channel
2479.990	63.2	-5.5	1.49	193.0	3.0	20.0	Horz	PK	0.0	77.7	N/A	N/A	Fundamental, 125kbps, High Channel
4960.995	30.9	6.0	1.5	176.4	3.0	20.0	Horz	PK	0.0	56.9	-20.0	-20.8	Emission, 125kbps, High Channel
2442.030	62.6	-5.6	3.08	100.9	3.0	20.0	Horz	PK	0.0	77.0	N/A	N/A	Fundamental, 125kbps, Mid Channel
4882.960	30.1	5.8	1.5	315.0	3.0	20.0	Horz	PK	0.0	55.9	-20.0	-21.1	Emission, 125kbps, Mid Channel

SPURIOUS CONDUCTED EMISSIONS

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
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Attenuator	Fairview Microwave	SA4018-20	TYW	2022-03-01	2023-03-01
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXJ	2022-09-09	2023-09-09
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

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

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

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

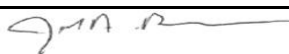
Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

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

SPURIOUS CONDUCTED EMISSIONS



TSTx 2022.06.03.0 XMR 2022.02.07.0

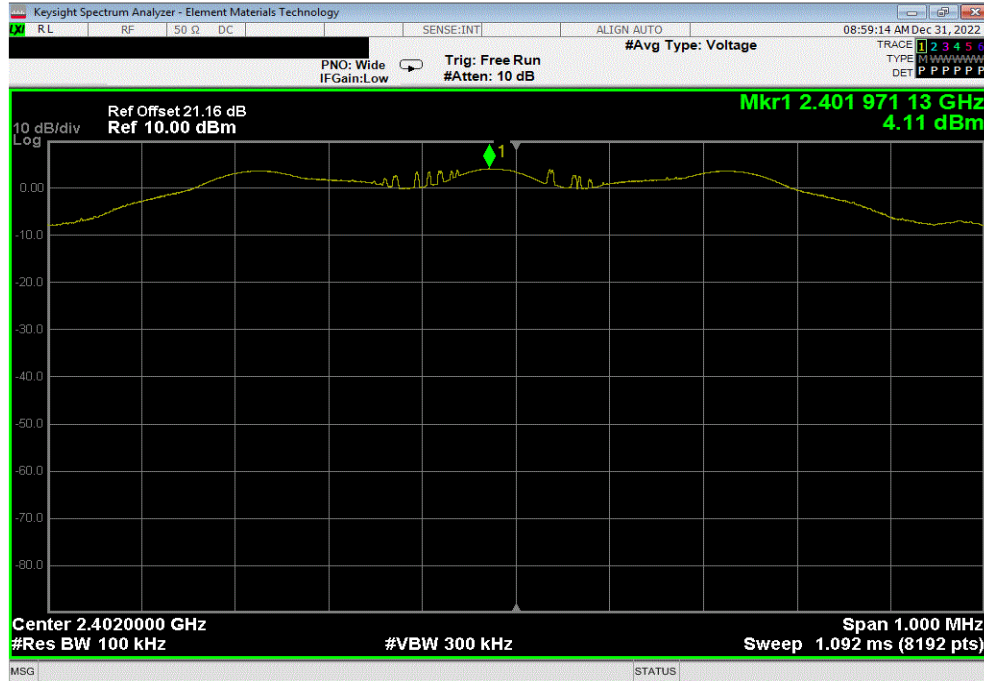
EUT: CAN Go		Work Order: ANNC0001				
Serial Number: EC21-A		Date: 30-Dec-22				
Customer: CAN Mobilities Inc.		Temperature: 23 °C				
Attendees: None		Humidity: 36.1% RH				
Project: None		Barometric Pres.: 1017 mbar				
Tested by: Jarrod Brenden		Job Site: TX07				
Power: 4.05 VDC via Battery						
TEST SPECIFICATIONS		Test Method				
FCC 15.247:2022		ANSI C63.10:2013				
COMMENTS						
All losses in the measurment path were accounted for: cable, attenuator, and DC block (21.16 dB).						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	3	Signature 				
		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
GFSK						
125 kbps						
	Low Channel, 2402 MHz	Fundamental	2401.97	N/A	N/A	N/A
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	4804.25	-43.38	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23747.1	-52.48	-20	Pass
	Mid Channel, 2442 MHz	Fundamental	2442	N/A	N/A	N/A
	Mid Channel, 2442 MHz	30 MHz - 12.5 GHz	4883.42	-45.54	-20	Pass
	Mid Channel, 2442 MHz	12.5 GHz - 25 GHz	24870.28	-52.95	-20	Pass
	High Channel, 2480 MHz	Fundamental	2480	N/A	N/A	N/A
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4959.54	-47.45	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23771.52	-52.66	-20	Pass
500 kbps						
	Low Channel, 2402 MHz	Fundamental	2401.72	N/A	N/A	N/A
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	4804.25	-43.87	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23972.96	-55.71	-20	Pass
	Mid Channel, 2442 MHz	Fundamental	2441.71	N/A	N/A	N/A
	Mid Channel, 2442 MHz	30 MHz - 12.5 GHz	4883.42	-45.8	-20	Pass
	Mid Channel, 2442 MHz	12.5 GHz - 25 GHz	23995.85	-55.17	-20	Pass
	High Channel, 2480 MHz	Fundamental	2479.72	N/A	N/A	N/A
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4961.06	-48.08	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24093.52	-54.54	-20	Pass
1 Mbps						
	Low Channel, 2402 MHz	Fundamental	2402.23	N/A	N/A	N/A
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	4804.25	-43.01	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	24974.06	-55.02	-20	Pass
	Mid Channel, 2442 MHz	Fundamental	2441.72	N/A	N/A	N/A
	Mid Channel, 2442 MHz	30 MHz - 12.5 GHz	4883.42	-46	-20	Pass
	Mid Channel, 2442 MHz	12.5 GHz - 25 GHz	23727.26	-55.55	-20	Pass
	High Channel, 2480 MHz	Fundamental	2479.72	N/A	N/A	N/A
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4961.06	-47.5	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23779.15	-54.96	-20	Pass
2 Mbps						
	Low Channel, 2402 MHz	Fundamental	2401.98	N/A	N/A	N/A
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	4804.25	-43.89	-20	Pass
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23829.51	-53.22	-20	Pass
	Mid Channel, 2442 MHz	Fundamental	2441.98	N/A	N/A	N/A
	Mid Channel, 2442 MHz	30 MHz - 12.5 GHz	4883.42	-46.31	-20	Pass
	Mid Channel, 2442 MHz	12.5 GHz - 25 GHz	24484.19	-53.32	-20	Pass
	High Channel, 2480 MHz	Fundamental	2479.97	N/A	N/A	N/A
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4961.06	-47.91	-20	Pass
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23875.29	-53.06	-20	Pass

SPURIOUS CONDUCTED EMISSIONS

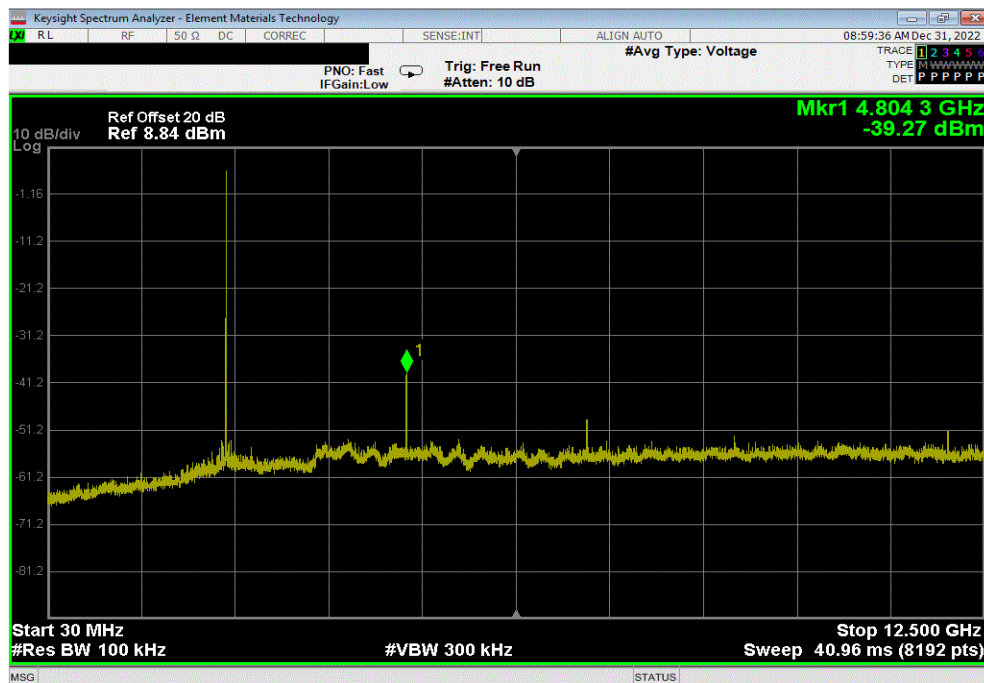


TbTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 125 kbps, Low Channel, 2402 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2401.97	N/A	N/A	N/A		



GFSK, 125 kbps, Low Channel, 2402 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4804.25	-43.38	-20	Pass		

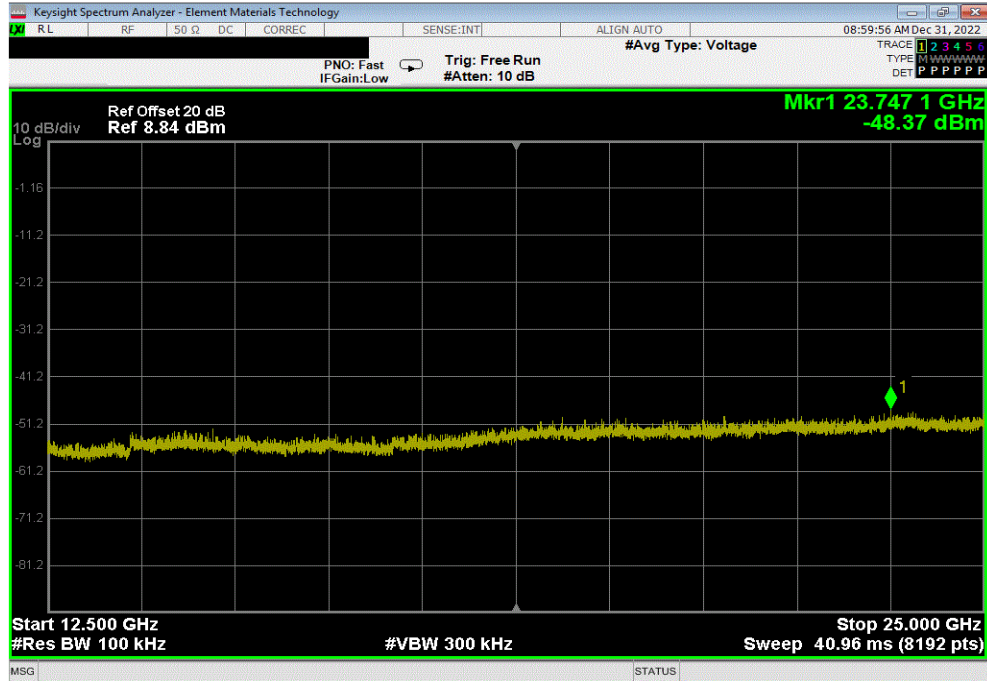


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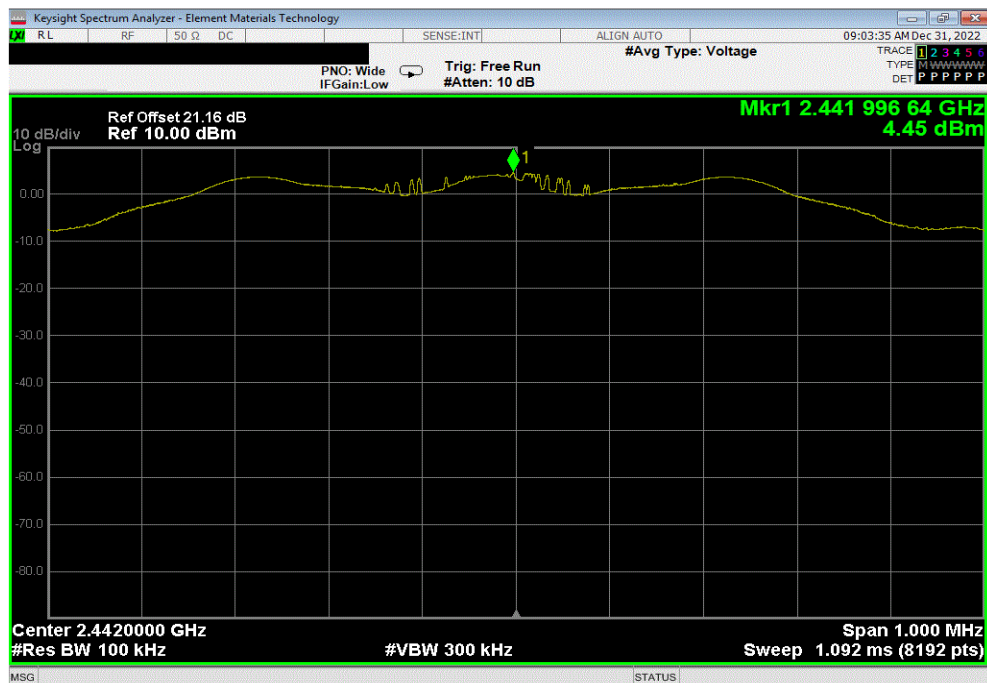


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 125 kbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23747.1	-52.48	-20	Pass	



GFSK, 125 kbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2442	N/A	N/A	N/A	

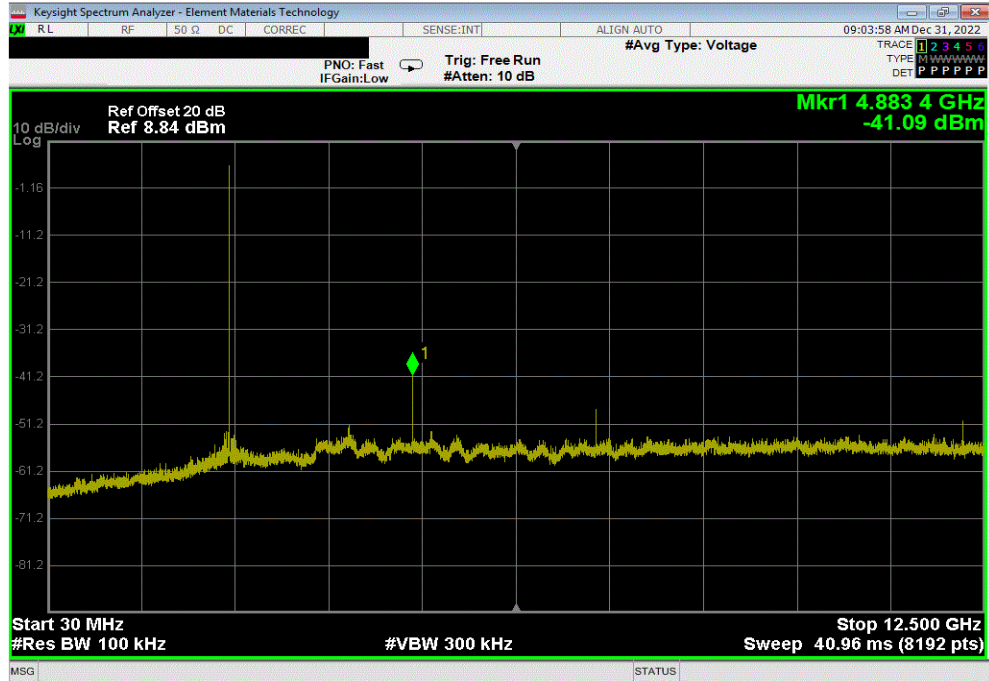


SPURIOUS CONDUCTED EMISSIONS

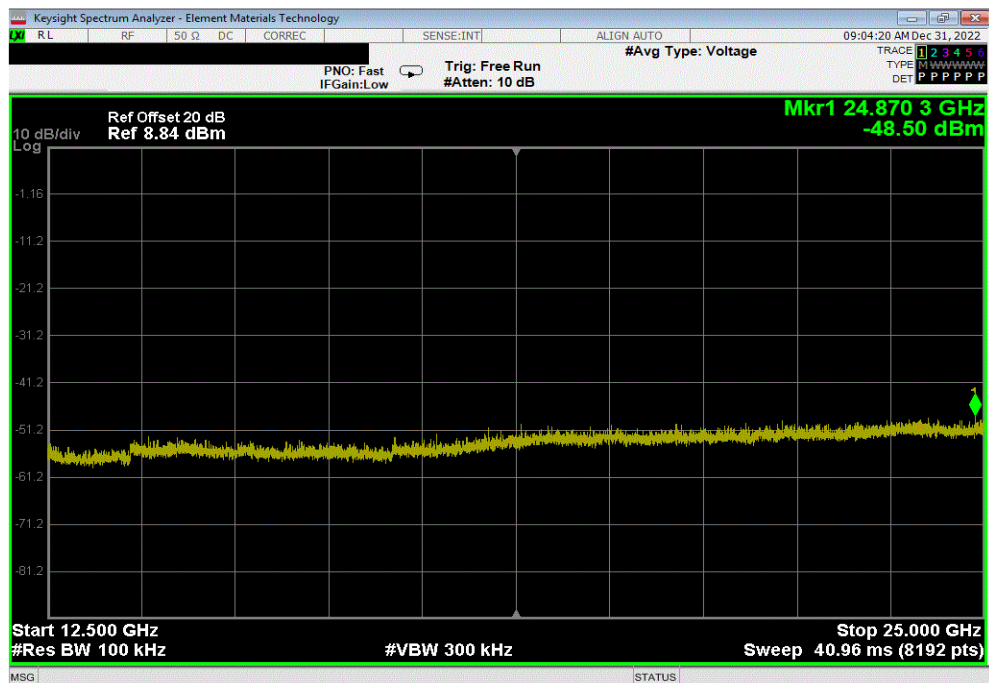


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 125 kbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4883.42	-45.54	-20	Pass	



GFSK, 125 kbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24870.28	-52.95	-20	Pass	

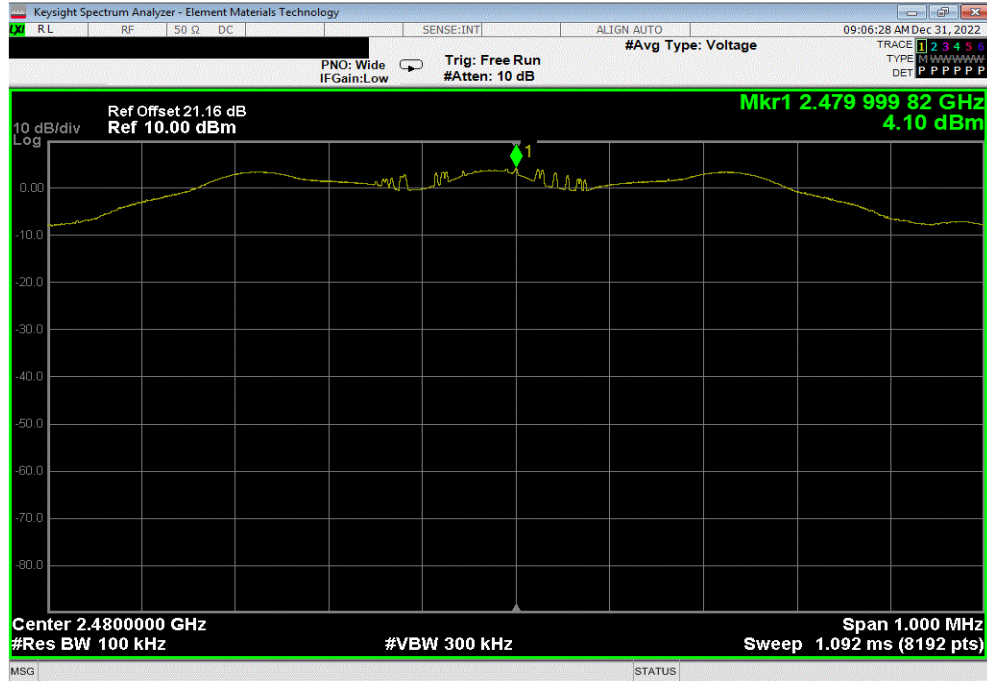


SPURIOUS CONDUCTED EMISSIONS

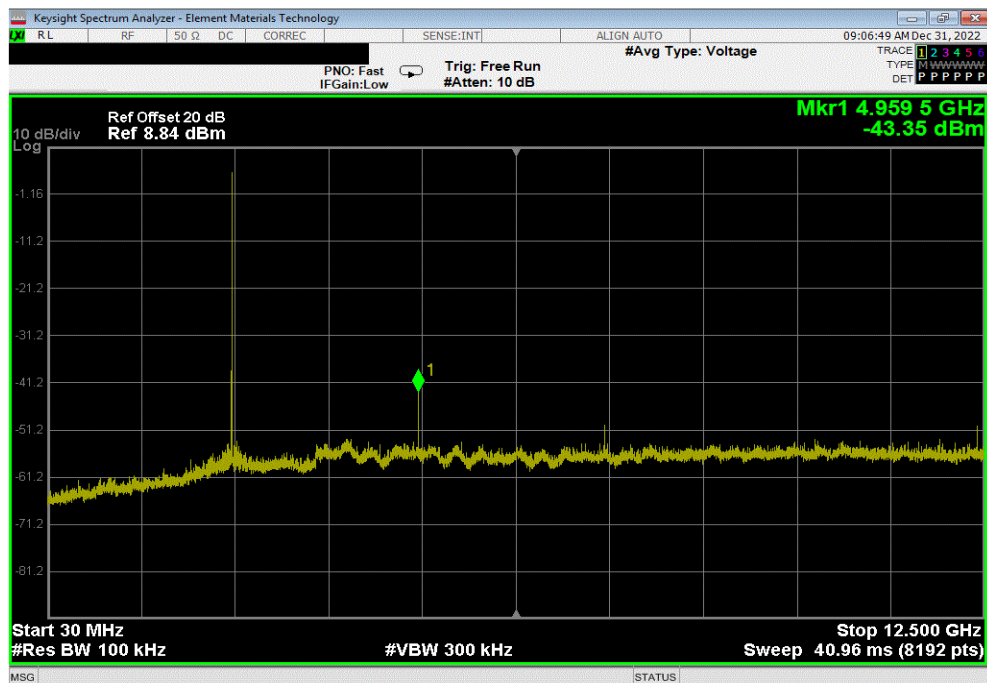


TbTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 125 kbps, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2480	N/A	N/A	N/A		



GFSK, 125 kbps, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4959.54	-47.45	-20	Pass		

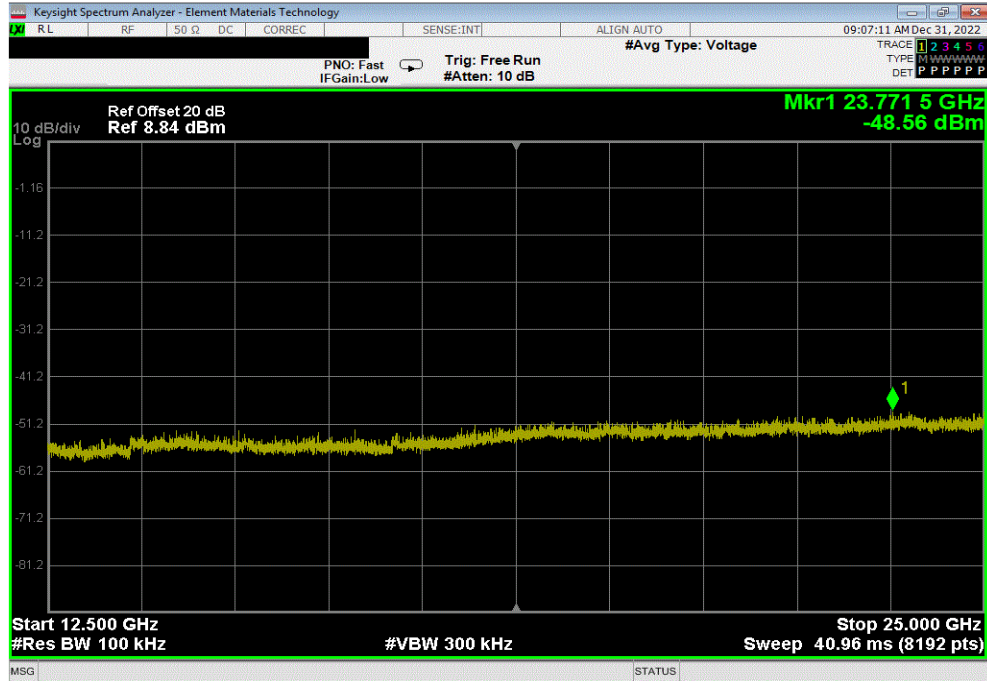


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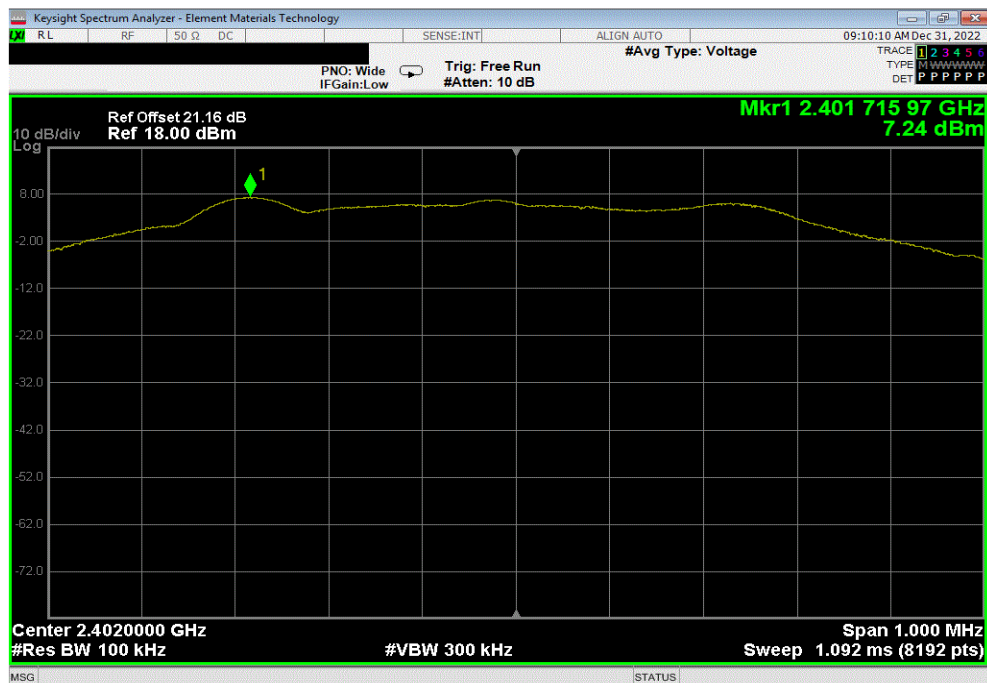


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 125 kbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23771.52	-52.66	-20	Pass	



GFSK, 500 kbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2401.72	N/A	N/A	N/A	

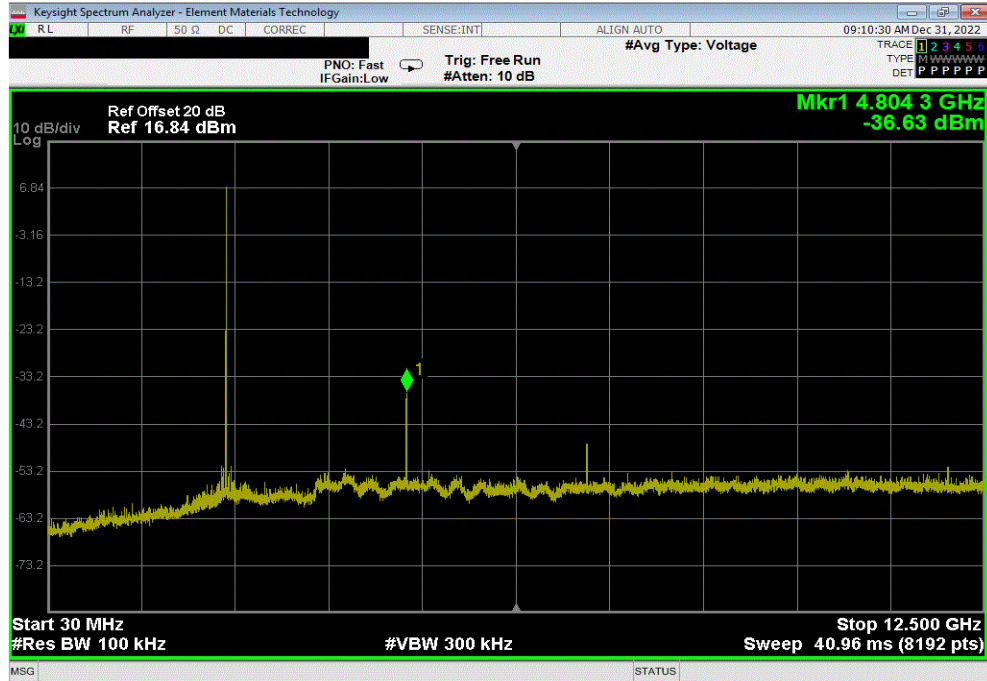


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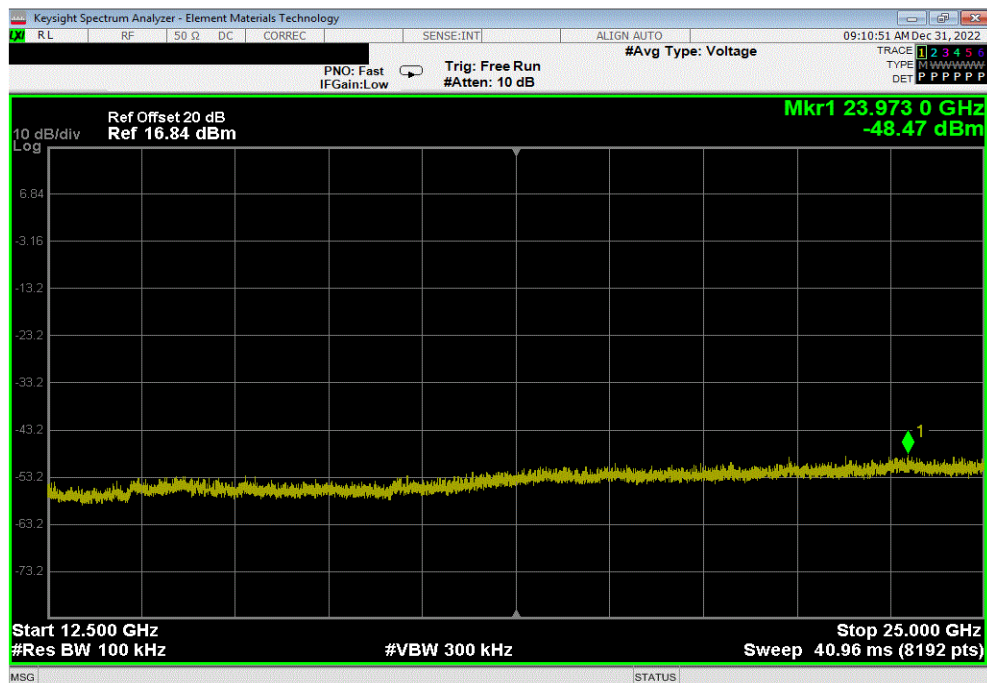


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 500 kbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4804.25	-43.87	-20	Pass	



GFSK, 500 kbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23972.96	-55.71	-20	Pass	

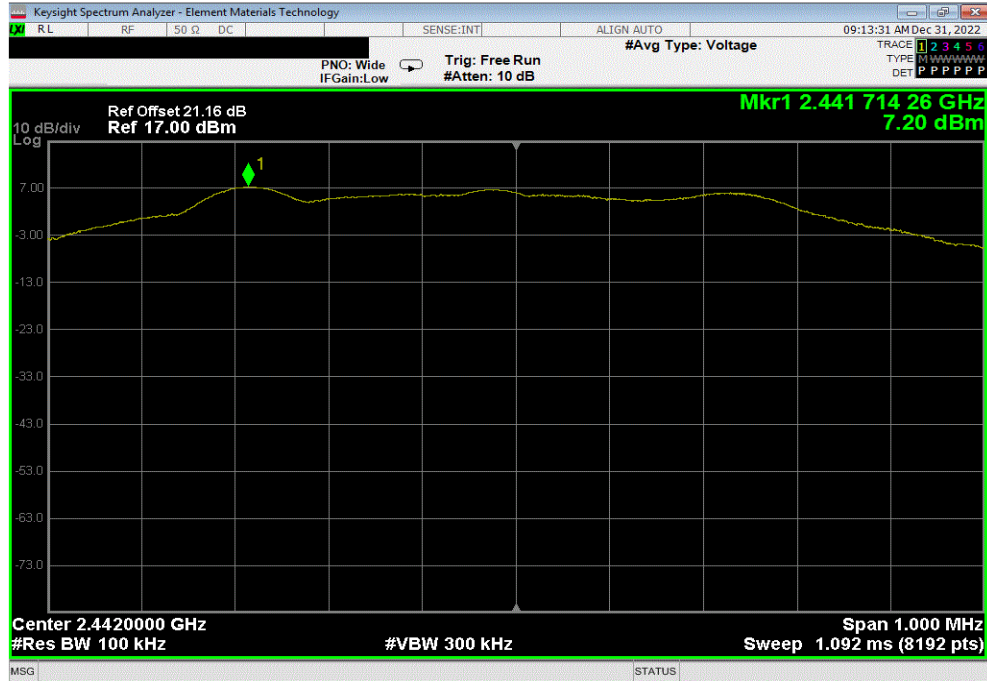


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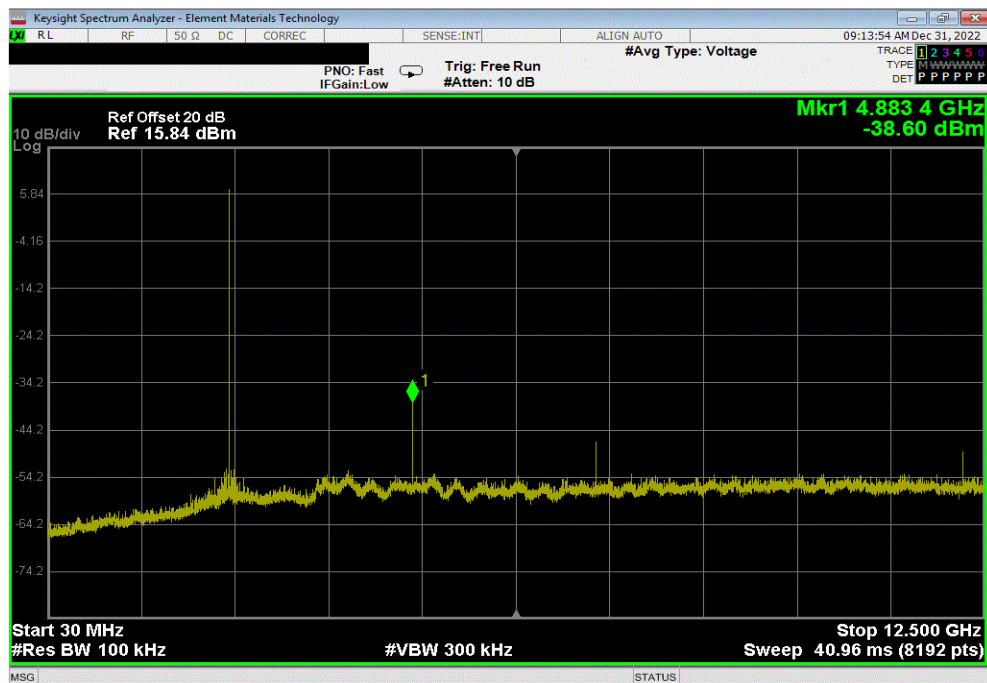


TbTtX 2022.06.03.0 XMt 2022.02.07.0

GFSK, 500 kbps, Mid Channel, 2442 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2441.71	N/A	N/A	N/A		



GFSK, 500 kbps, Mid Channel, 2442 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4883.42	-45.8	-20	Pass		

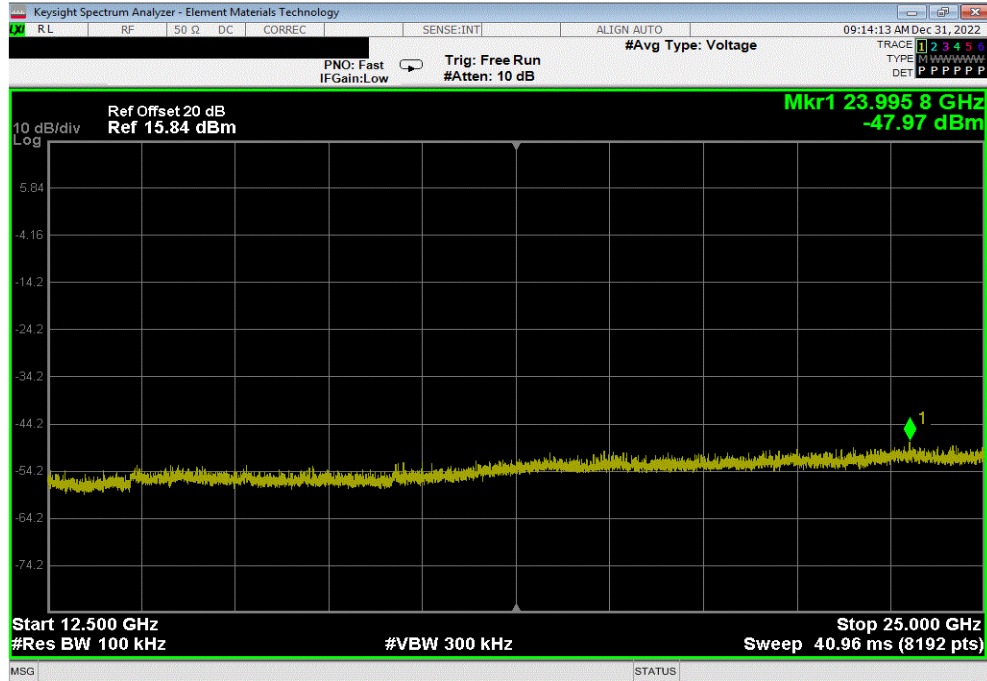


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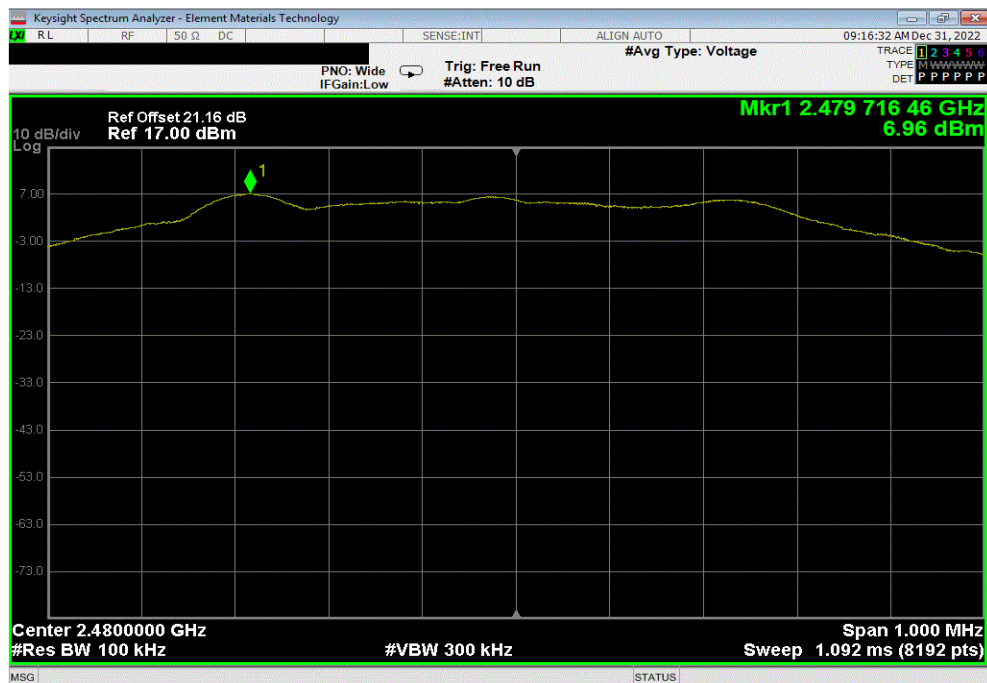


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 500 kbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23995.85	-55.17	-20	Pass	



GFSK, 500 kbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2479.72	N/A	N/A	N/A	

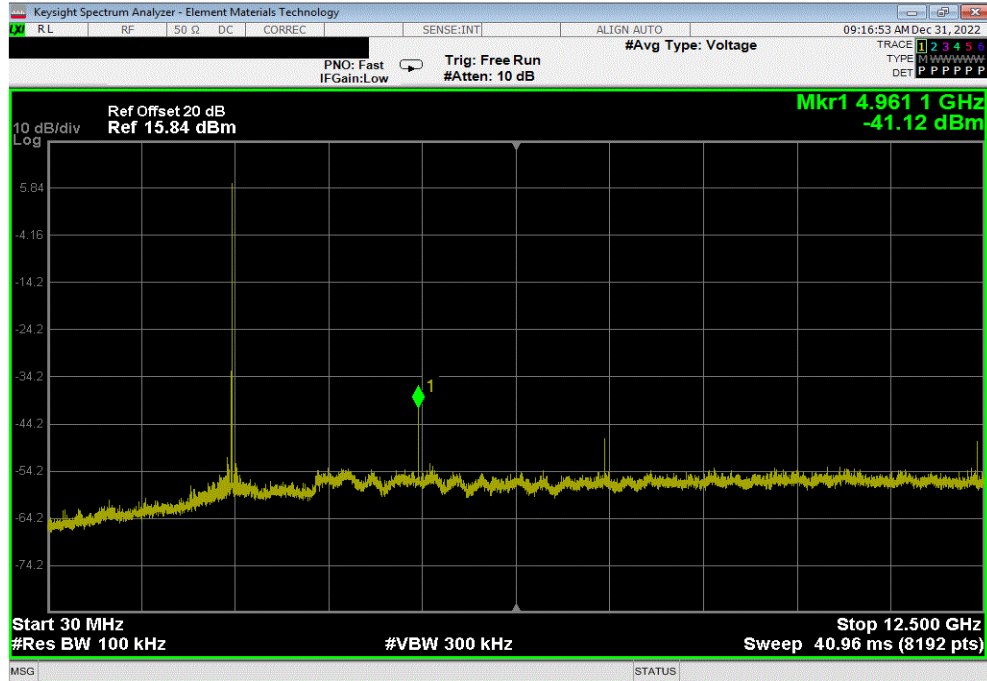


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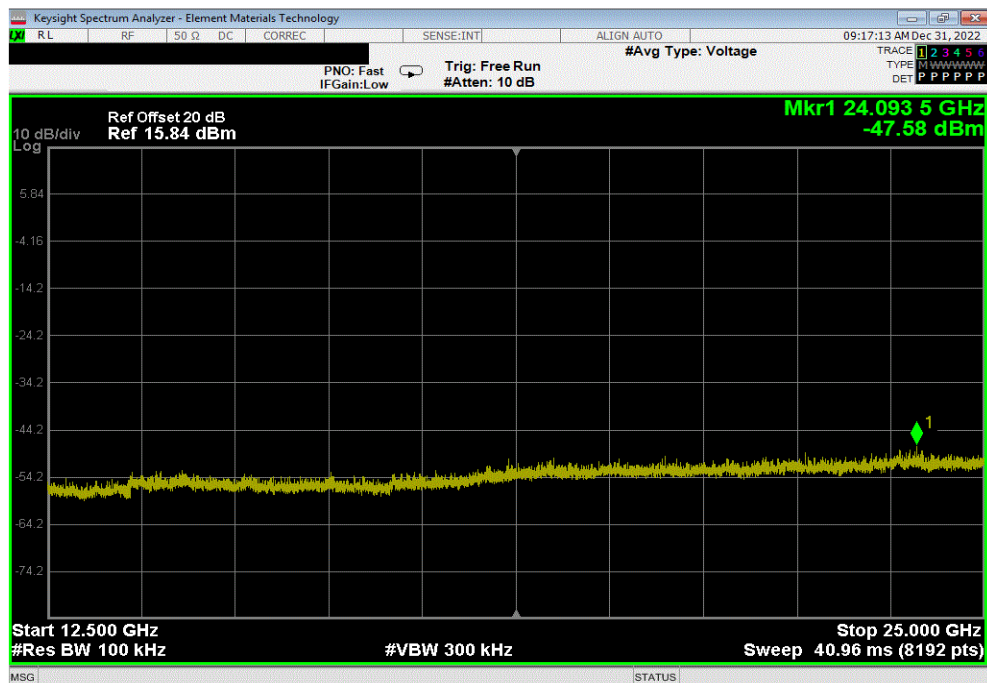


TMTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 500 kbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4961.06	-48.08	-20	Pass	



GFSK, 500 kbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24093.52	-54.54	-20	Pass	

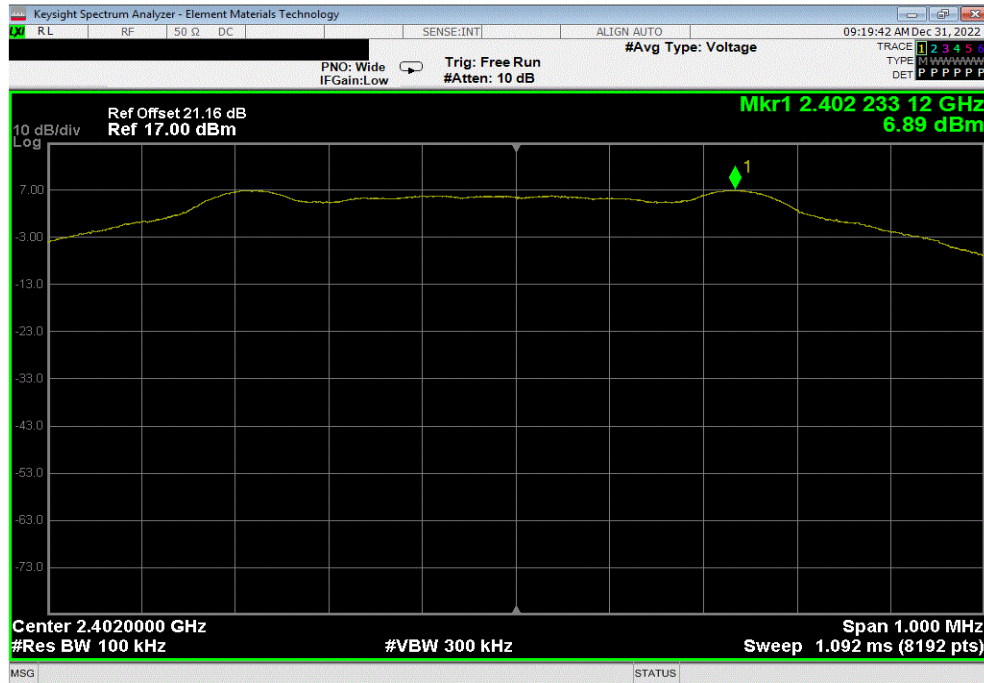


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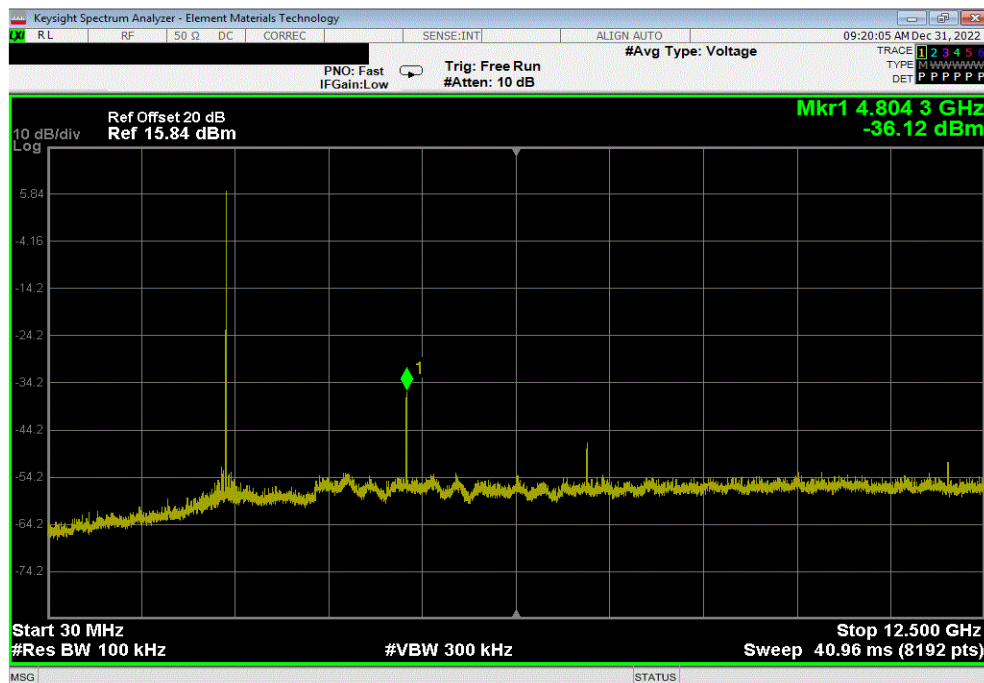


TbTtX 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, Low Channel, 2402 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2402.23	N/A	N/A	N/A		



GFSK, 1 Mbps, Low Channel, 2402 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4804.25	-43.01	-20	Pass		

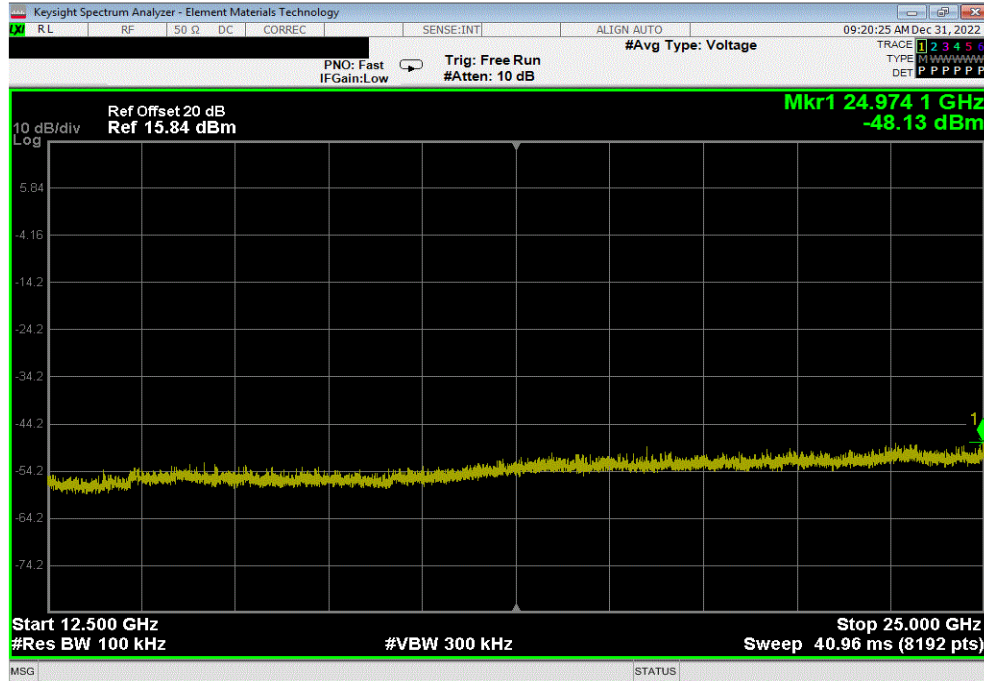


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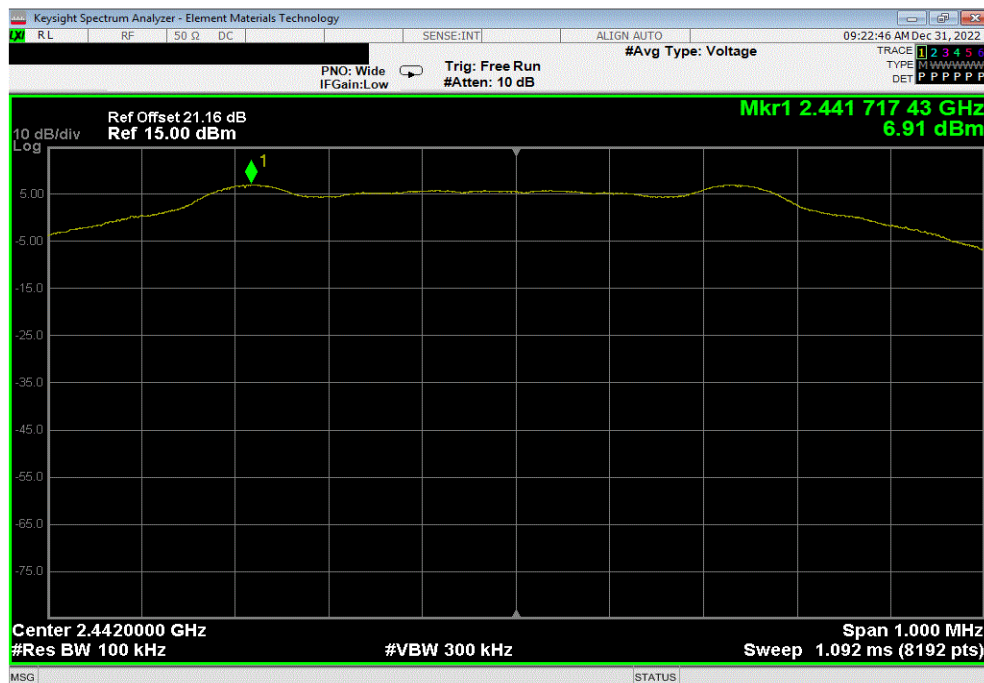


TMTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24974.06	-55.02	-20	Pass	



GFSK, 1 Mbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2441.72	N/A	N/A	N/A	

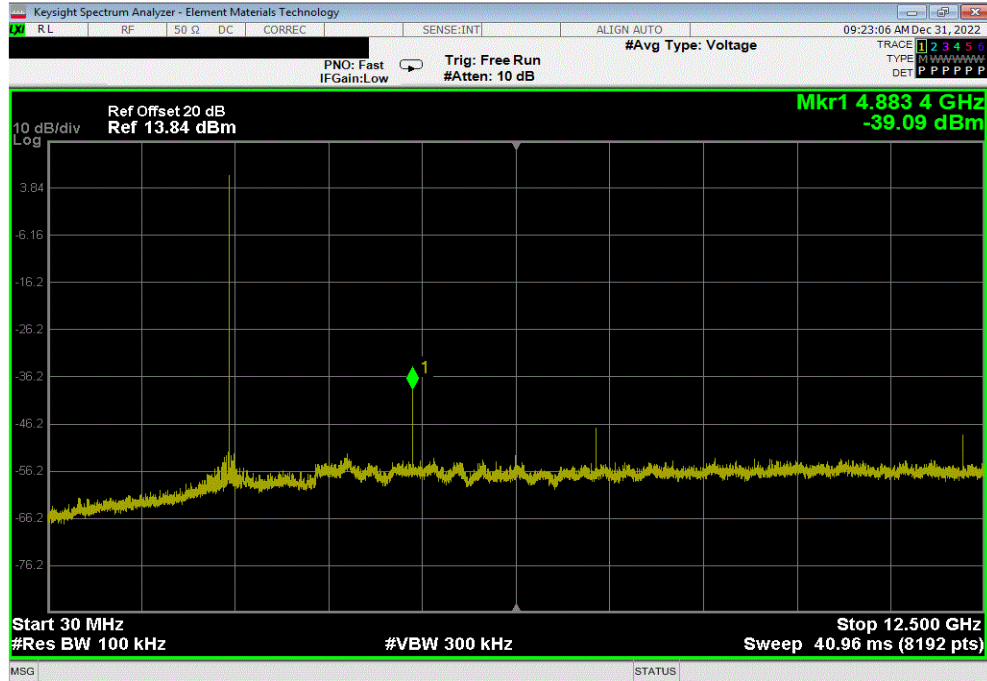


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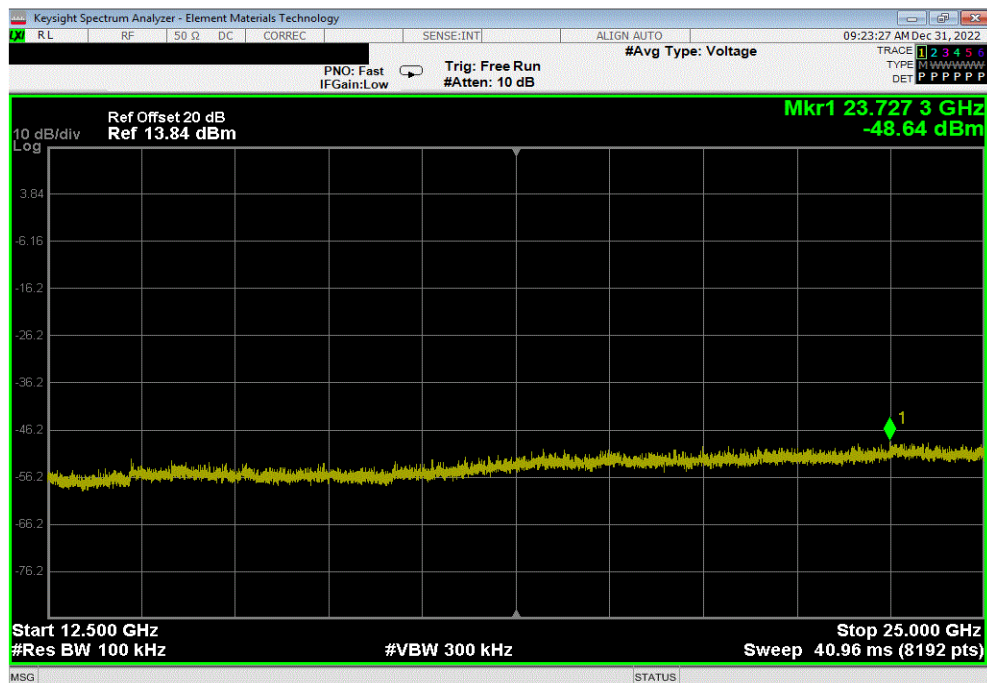


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4883.42	-46	-20	Pass	



GFSK, 1 Mbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23727.26	-55.55	-20	Pass	

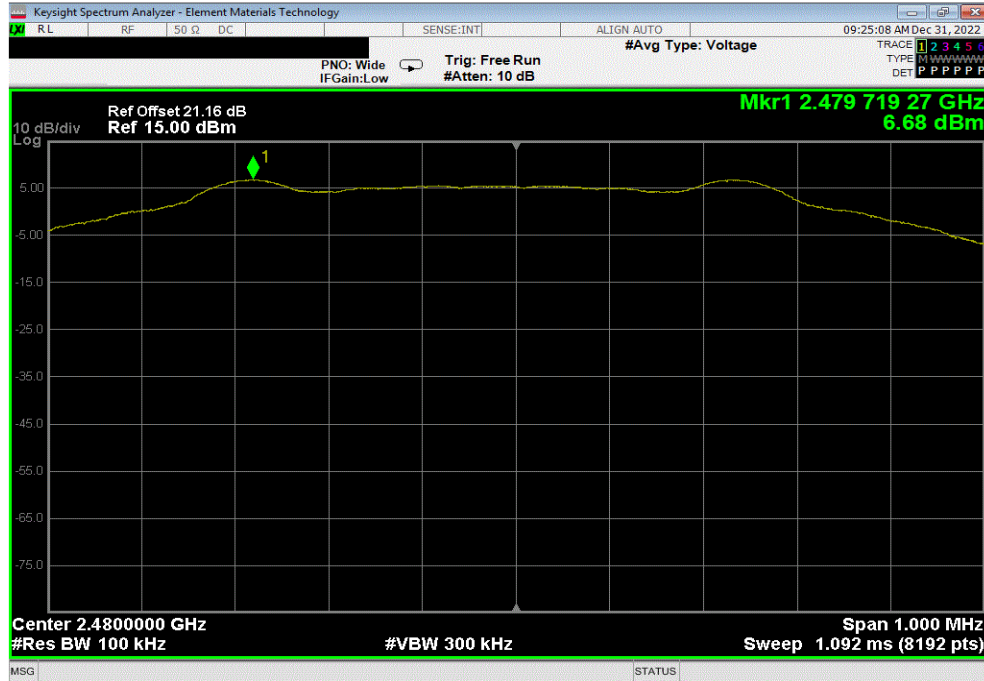


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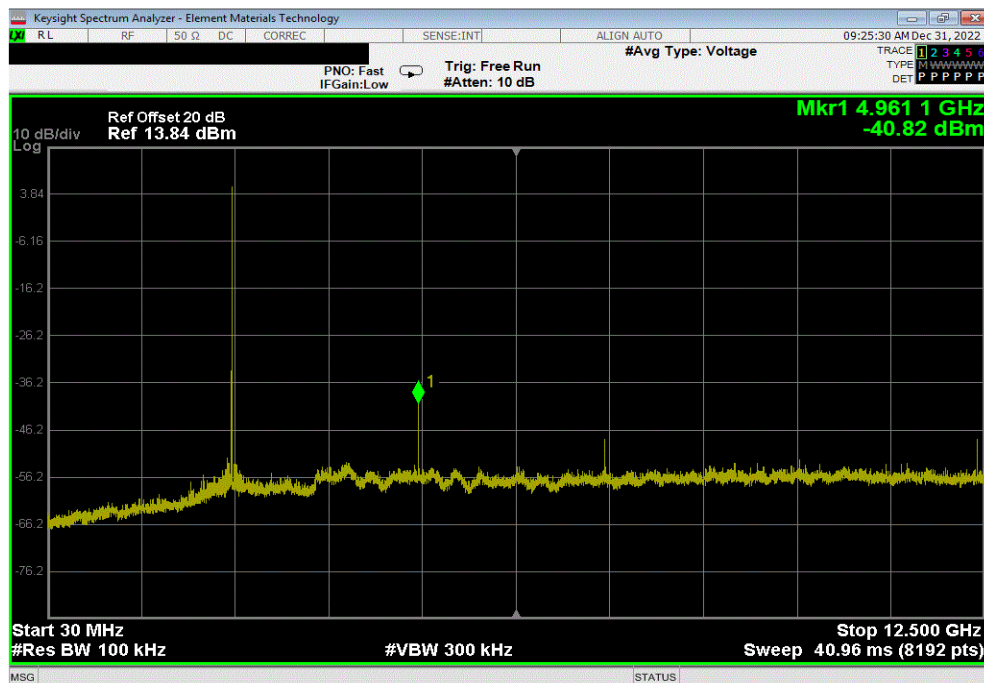


TMTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2479.72	N/A	N/A	N/A		



GFSK, 1 Mbps, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4961.06	-47.5	-20	Pass		

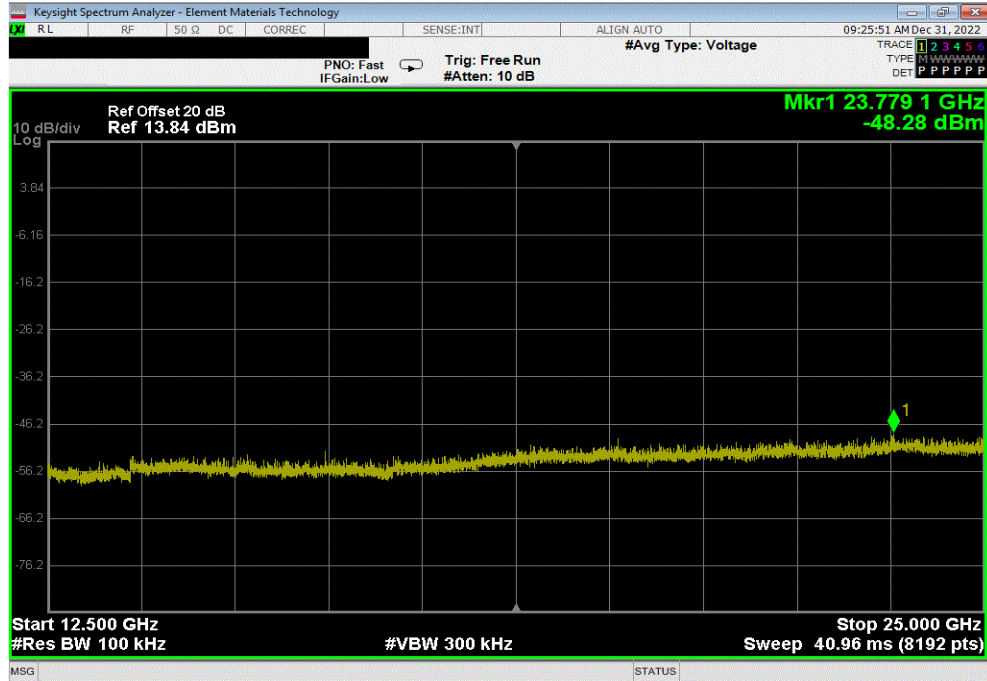


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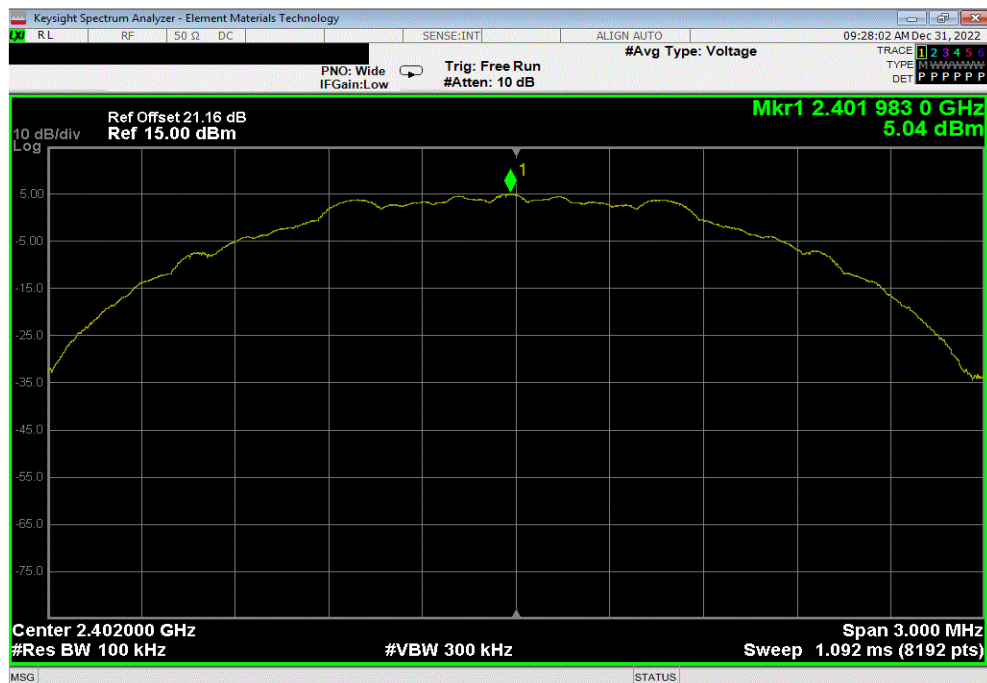


TMTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 1 Mbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23779.15	-54.96	-20	Pass	



GFSK, 2 Mbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2401.98	N/A	N/A	N/A	

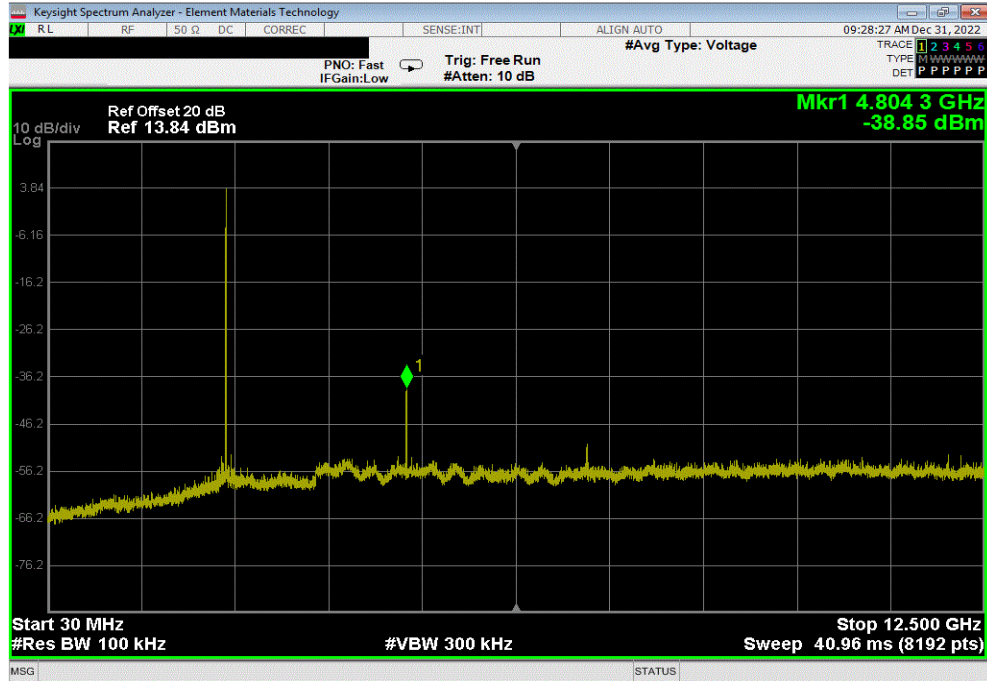


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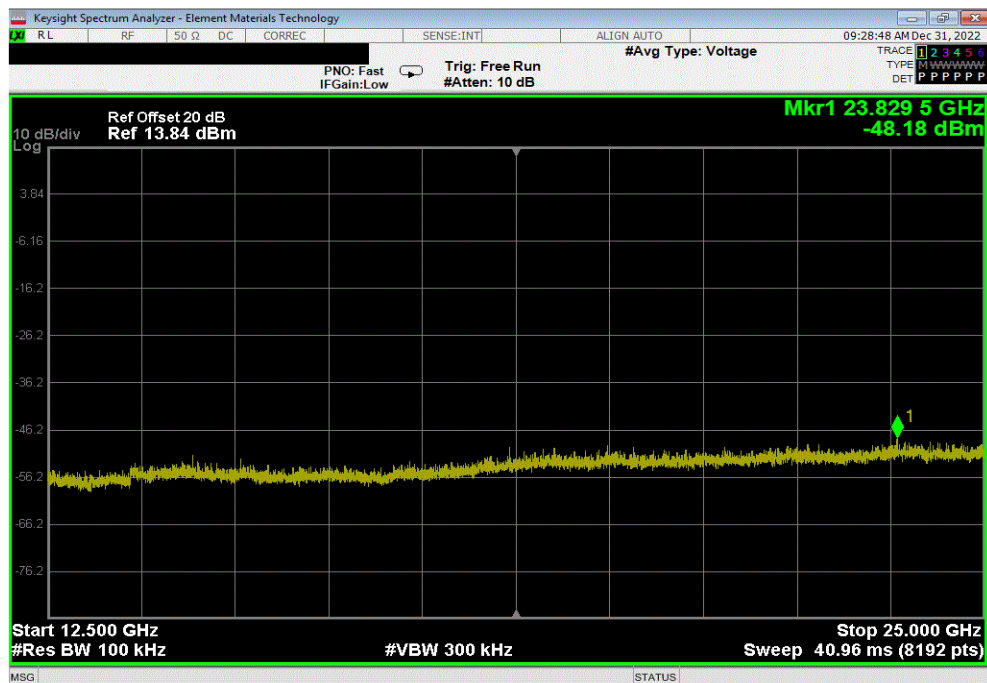


TbTtX 2022.06.03.0 XMt 2022.02.07.0

GFSK, 2 Mbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4804.25	-43.89	-20	Pass	



GFSK, 2 Mbps, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23829.51	-53.22	-20	Pass	

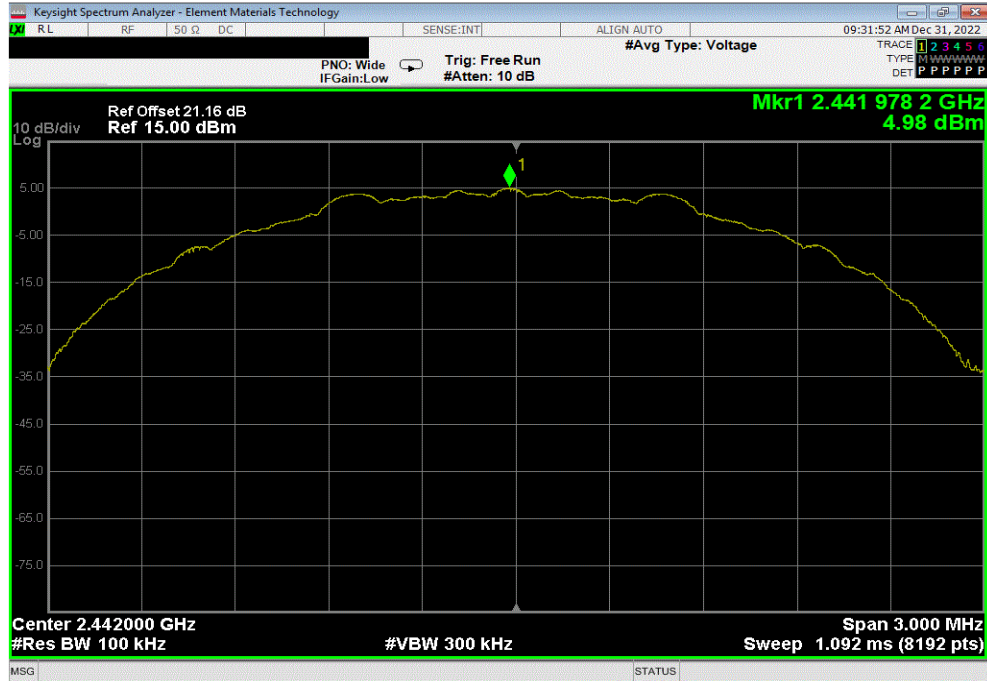


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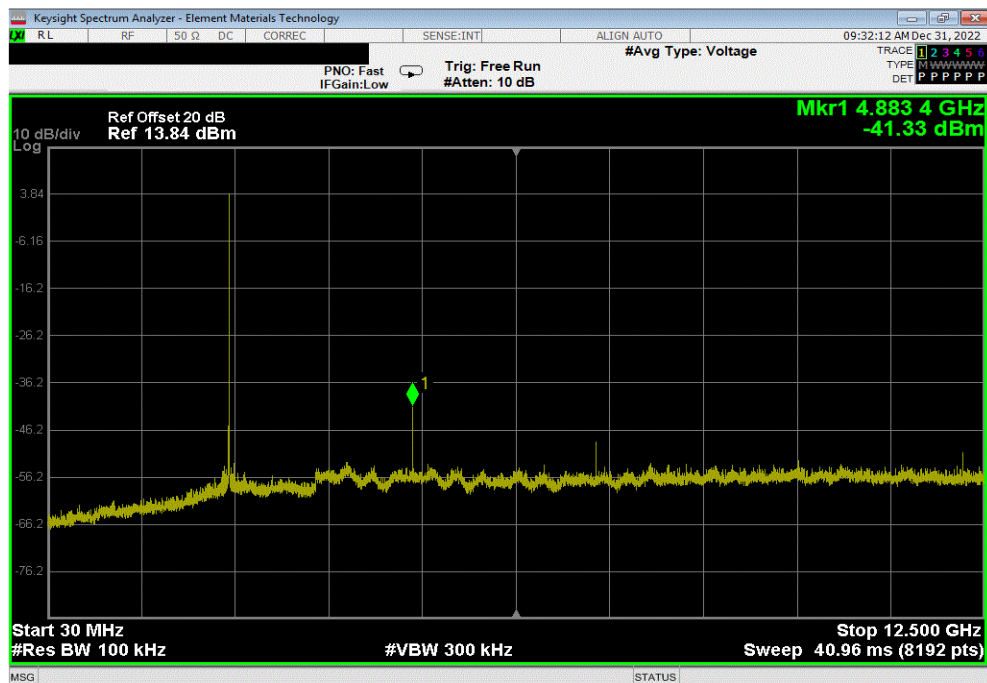


TbTtx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 2 Mbps, Mid Channel, 2442 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2441.98	N/A	N/A	N/A		



GFSK, 2 Mbps, Mid Channel, 2442 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4883.42	-46.31	-20	Pass		

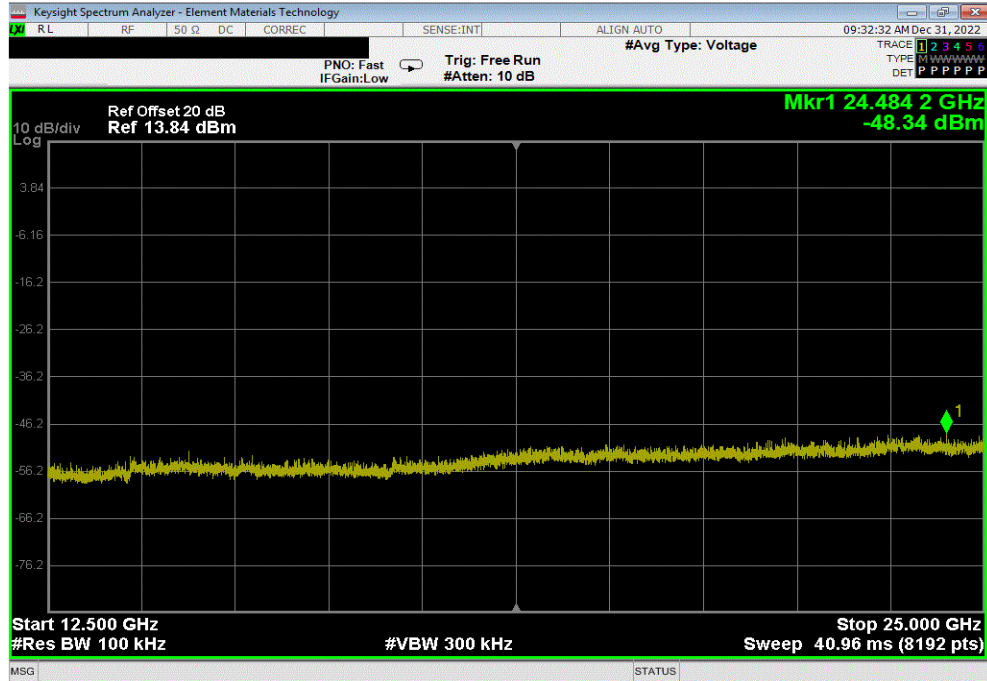


SPURIOUS CONDUCTED EMISSIONS

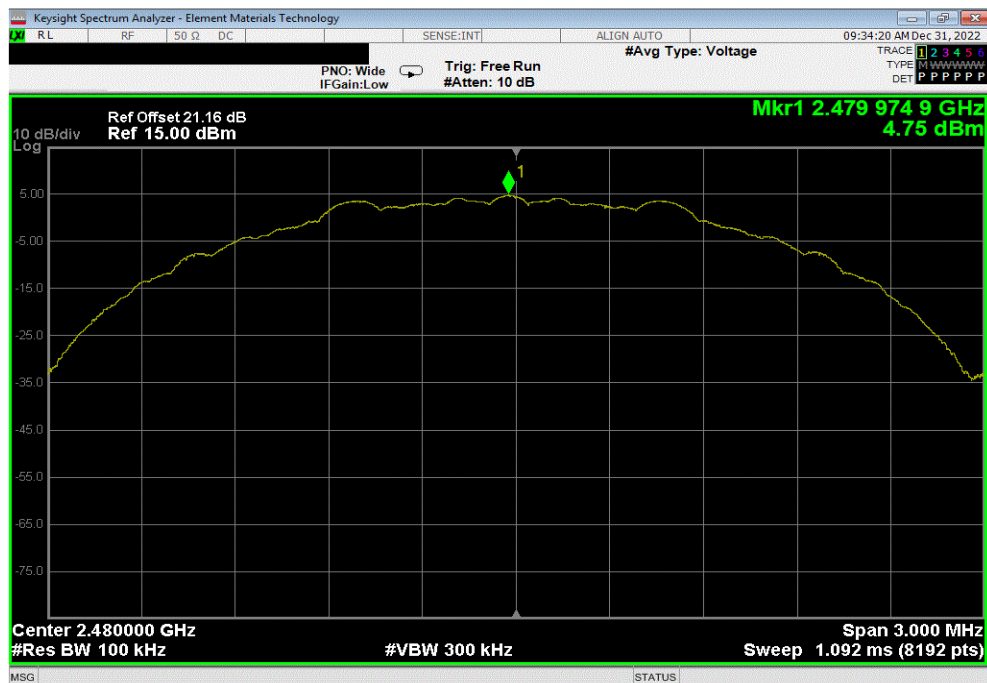


TMTx 2022.06.03.0 XMR 2022.02.07.0

GFSK, 2 Mbps, Mid Channel, 2442 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24484.19	-53.32	-20	Pass	



GFSK, 2 Mbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2479.97	N/A	N/A	N/A	

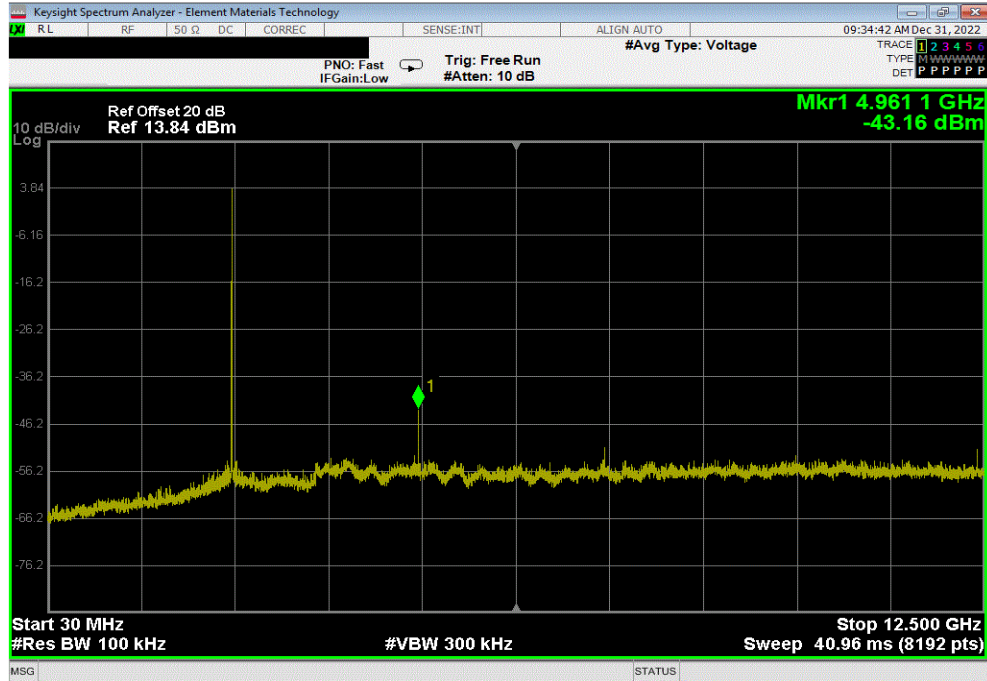


SPURIOUS CONDUCTED EMISSIONS

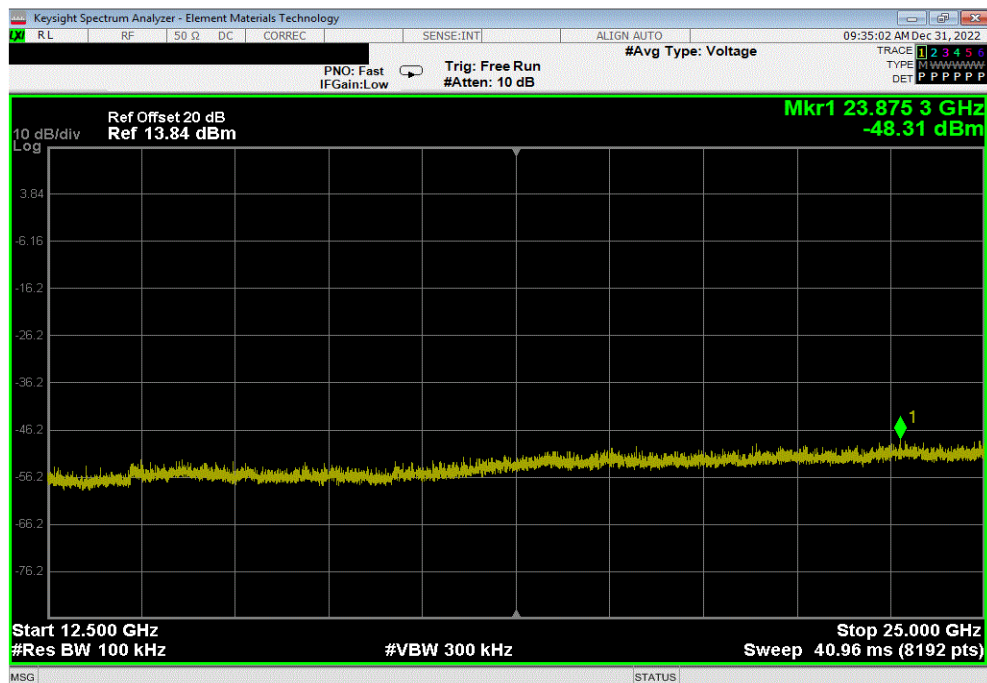


TbTx 2022.06.03.0 XMt 2022.02.07.0

GFSK, 2 Mbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4961.06	-47.91	-20	Pass	



GFSK, 2 Mbps, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23875.29	-53.06	-20	Pass	



SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2022.1.12.0

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

CHANNELS OF OPERATION

BTLE 5.2, Low Channel 2402 MHz

BTLE 5.2, Mid Channel 2442 MHz

BTLE 5.2, High Channel 2480 MHz

MODES OF OPERATION

BTLE 5.2, 2 Mbps Data Rate

BTLE 5.2, 1 Mbps Data Rate

BTLE 5.2, 500kbps Data Rate

BTLE 5.2, 125kbps Data Rate

POWER SETTINGS INVESTIGATED

110VAC/60Hz

3.0VDC via Battery

CONFIGURATIONS INVESTIGATED

ANNC0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz

Stop Frequency

26500 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2021-09-15	2022-09-15
Cable	Northwest EMC	18-40GHz	TXE	2021-09-13	2022-09-13
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2020-09-02	2022-09-02
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2021-09-13	2022-09-13
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2021-09-13	2022-09-13
Cable	Northwest EMC	8-18GHz	TXD	2021-04-30	2022-04-30
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2021-05-24	2022-05-24
Cable	Northwest EMC	1-8.2 GHz	TXC	2021-05-24	2022-05-24
Antenna - Double Ridge	ETS Lindgren	3115	AJL	2020-10-20	2022-10-20
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2021-05-24	2022-05-24
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	2021-05-24	2022-05-24
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2020-06-25	2022-06-25
Filter - High Pass	Micro-Tronics	HPM50111	HGC	2021-03-09	2022-03-09
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2021-07-27	2022-07-27
Attenuator	Weinschel Corp	4H-20	AWB	2021-03-09	2022-03-09
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11

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 showed 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 axis 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 $10 \cdot \log(1/dc)$.

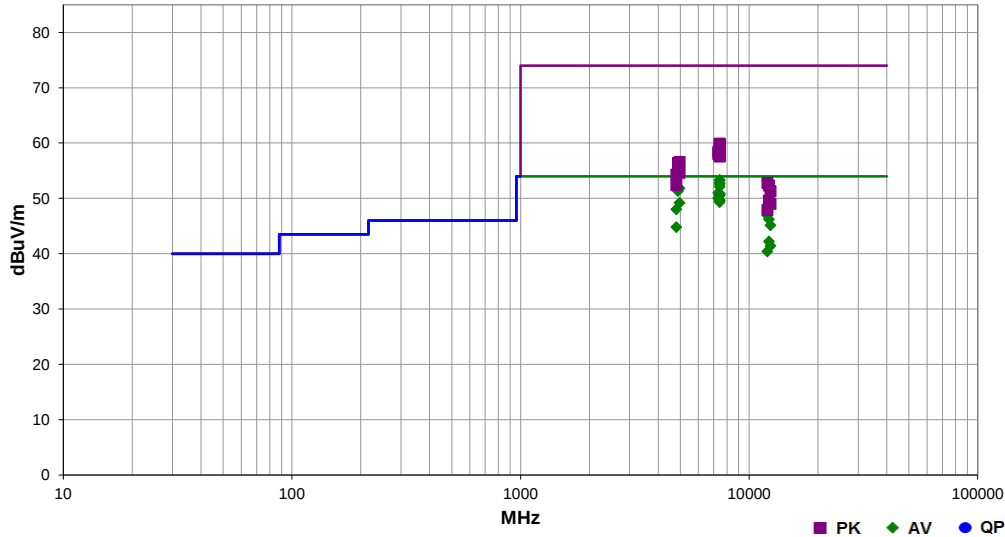
SPURIOUS RADIATED EMISSIONS



Work Order:	ANNC0001	Date:	2022-02-11	
Project:	None	Temperature:	21.7 °C	
Job Site:	TX02	Humidity:	20.7% RH	
Serial Number:	869260049954217	Barometric Pres.:	1033 mbar	
EUT:		CAN Go		
Configuration:		1		
Customer:		CAN Mobilities Inc.		
Attendees:		None		
EUT Power:		Reference data comments		
Operating Mode:		Transmitting Bluetooth LE Please reference data comments for EUT orientation, Channel, Data Rate and Power to the EUT.		
Deviations:		None		
Comments:		EUT operating at 100% duty cycle		

Test Specifications	Test Method
FCC 15.247:2022	ANSI C63.10:2013

Run #	42	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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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
7439.400	41.2	12.1	3.1	182.0	3.0	0.0	Vert	AV	0.0	53.3	54.0	-0.7	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7439.350	41.2	12.1	3.1	182.0	3.0	0.0	Vert	AV	0.0	53.3	54.0	-0.7	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
7440.567	40.7	12.1	1.5	273.9	3.0	0.0	Horz	AV	0.0	52.8	54.0	-1.2	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.575	40.5	12.1	1.3	282.0	3.0	0.0	Horz	AV	0.0	52.6	54.0	-1.4	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.592	40.0	12.1	1.7	181.0	3.0	0.0	Vert	AV	0.0	52.1	54.0	-1.9	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4884.042	46.1	5.8	1.8	235.0	3.0	0.0	Horz	AV	0.0	51.9	54.0	-2.1	EUT Vert, Mid Ch. 2440 MHz, 1 Mbps, 110VAC/60Hz
4959.942	45.8	6.0	1.7	222.0	3.0	0.0	Horz	AV	0.0	51.8	54.0	-2.2	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4884.033	45.5	5.8	2.0	332.0	3.0	0.0	Vert	AV	0.0	51.3	54.0	-2.7	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
7326.567	39.1	11.9	1.5	105.9	3.0	0.0	Horz	AV	0.0	51.0	54.0	-3.0	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
7440.633	38.7	12.1	1.8	30.0	3.0	0.0	Vert	AV	0.0	50.8	54.0	-3.2	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.575	38.7	12.1	1.6	283.0	3.0	0.0	Horz	AV	0.0	50.8	54.0	-3.2	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
7439.325	38.6	12.1	1.6	283.0	3.0	0.0	Horz	AV	0.0	50.7	54.0	-3.3	EUT Vert, High Ch. 2480 MHz, 125Kbps, 110VAC/60Hz
7440.475	38.4	12.1	1.7	282.0	3.0	0.0	Horz	AV	0.0	50.5	54.0	-3.5	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
7326.583	38.1	11.9	1.5	342.0	3.0	0.0	Vert	AV	0.0	50.0	54.0	-4.0	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
7438.617	37.6	12.1	1.6	283.0	3.0	0.0	Horz	AV	0.0	49.7	54.0	-4.3	EUT Vert, High Ch. 2480 MHz, 2 Mbps, 110VAC/60Hz
7440.508	37.5	12.1	1.7	356.0	3.0	0.0	Horz	AV	0.0	49.6	54.0	-4.4	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.517	37.2	12.1	1.5	104.0	3.0	0.0	Vert	AV	0.0	49.3	54.0	-4.7	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4959.925	43.2	6.0	1.5	32.0	3.0	0.0	Vert	AV	0.0	49.2	54.0	-4.8	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4804.083	42.4	5.6	1.9	234.0	3.0	0.0	Horz	AV	0.0	48.0	54.0	-6.0	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
12011.150	49.8	-2.9	1.9	178.9	3.0	0.0	Horz	AV	0.0	46.9	54.0	-7.1	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
12211.090	48.1	-1.9	1.9	93.0	3.0	0.0	Horz	AV	0.0	46.2	54.0	-7.8	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
12398.830	46.7	-1.6	1.6	98.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4804.075	39.2	5.6	1.8	26.0	3.0	0.0	Vert	AV	0.0	44.8	54.0	-9.2	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
12211.130	44.1	-1.9	3.5	153.0	3.0	0.0	Vert	AV	0.0	42.2	54.0	-11.8	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
12398.760	43.0	-1.6	3.3	189.0	3.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
12011.100	43.3	-2.9	1.6	195.9	3.0	0.0	Vert	AV	0.0	40.4	54.0	-13.6	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
7440.600	47.8	12.1	3.1	182.0	3.0	0.0	Vert	PK	0.0	59.9	74.0	-14.1	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.842	47.6	12.1	3.1	182.0	3.0	0.0	Vert	PK	0.0	59.7	74.0	-14.3	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
7439.467	47.5	12.1	1.5	273.9	3.0	0.0	Horz	PK	0.0	59.6	74.0	-14.4	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7439.325	47.4	12.1	1.3	282.0	3.0	0.0	Horz	PK	0.0	59.5	74.0	-14.5	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.617	47.1	12.1	1.7	181.0	3.0	0.0	Vert	PK	0.0	59.2	74.0	-14.8	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7439.425	46.5	12.1	1.6	283.0	3.0	0.0	Horz	PK	0.0	58.6	74.0	-15.4	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
7325.208	46.5	11.9	1.5	105.9	3.0	0.0	Horz	PK	0.0	58.4	74.0	-15.6	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
7441.450	46.2	12.1	1.6	283.0	3.0	0.0	Horz	PK	0.0	58.3	74.0	-15.7	EUT Vert, High Ch. 2480 MHz, 2 Mbps, 110VAC/60Hz
7440.650	46.2	12.1	1.6	283.0	3.0	0.0	Horz	PK	0.0	58.3	74.0	-15.7	EUT Vert, High Ch. 2480 MHz, 125Kbps, 110VAC/60Hz

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
7439.433	46.0	12.1	1.8	30.0	3.0	0.0	Vert	PK	0.0	58.1	74.0	-15.9	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7439.125	45.9	12.1	1.7	282.0	3.0	0.0	Horz	PK	0.0	58.0	74.0	-16.0	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
7326.833	46.1	11.9	1.5	342.0	3.0	0.0	Vert	PK	0.0	58.0	74.0	-16.0	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
7440.867	45.5	12.1	1.7	356.0	3.0	0.0	Horz	PK	0.0	57.6	74.0	-16.4	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
7440.775	45.5	12.1	1.5	104.0	3.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4960.383	50.6	6.0	1.7	222.0	3.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4883.458	50.6	5.8	1.8	235.0	3.0	0.0	Horz	PK	0.0	56.4	74.0	-17.6	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
4883.900	50.3	5.8	2.0	332.0	3.0	0.0	Vert	PK	0.0	56.1	74.0	-17.9	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
4960.467	48.6	6.0	1.5	32.0	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
4804.567	48.7	5.6	1.9	234.0	3.0	0.0	Horz	PK	0.0	54.3	74.0	-19.7	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
12010.990	55.7	-2.9	1.9	178.9	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
4804.567	46.8	5.6	1.8	26.0	3.0	0.0	Vert	PK	0.0	52.4	74.0	-21.6	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
12211.340	54.2	-1.9	1.9	93.0	3.0	0.0	Horz	PK	0.0	52.3	74.0	-21.7	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
12398.740	52.9	-1.6	1.6	98.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
12208.630	51.5	-1.9	3.5	153.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	EUT Vert, Mid Ch. 2442 MHz, 1 Mbps, 110VAC/60Hz
12398.560	50.6	-1.6	3.3	189.0	3.0	0.0	Vert	PK	0.0	49.0	74.0	-25.0	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
12011.210	50.8	-2.9	1.6	195.9	3.0	0.0	Vert	PK	0.0	47.9	74.0	-26.1	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz

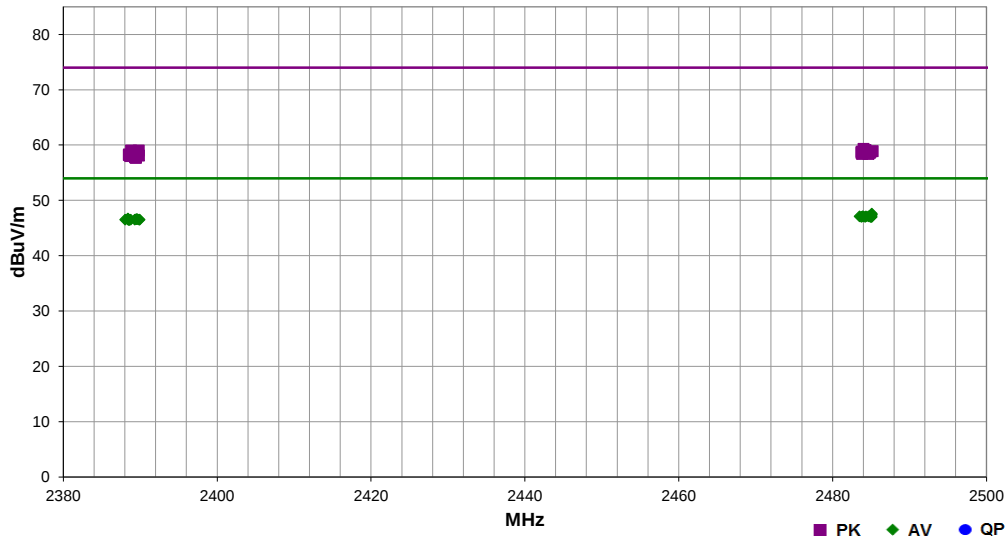
SPURIOUS RADIATED EMISSIONS



Work Order:	ANNC0001	Date:	2022-02-11	EmRS 2021.09.09.0 PSA-ESCI 2022.1.12.0 
Project:	None	Temperature:	21.7 °C	
Job Site:	TX02	Humidity:	20.7% RH	
Serial Number:	869260049954217	Barometric Pres.:	1033 mbar	
EUT:	CAN Go			Tested by: Brandon Hobbs
Configuration:	1			
Customer:	CAN Mobilities Inc.			
Attendees:	None			
EUT Power:	Reference data comments			
Operating Mode:	Transmitting Bluetooth LE Please reference data comments for EUT orientation, Channel, Data Rate and Power to the EUT.			
Deviations:	None			
Comments:	EUT operating at 100% duty cycle			

Test Specifications	Test Method
FCC 15.247:2022	ANSI C63.10:2013

Run #	44	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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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
2485.113	33.0	-5.4	1.5	282.0	3.0	20.0	Horz	AV	0.0	47.6	54.0	-6.4	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2485.133	32.8	-5.4	1.5	243.0	3.0	20.0	Vert	AV	0.0	47.4	54.0	-6.6	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2483.523	32.5	-5.4	1.5	196.9	3.0	20.0	Horz	AV	0.0	47.1	54.0	-6.9	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2484.350	32.5	-5.4	1.5	162.0	3.0	20.0	Vert	AV	0.0	47.1	54.0	-6.9	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2483.903	32.5	-5.4	1.5	0.0	3.0	20.0	Horz	AV	0.0	47.1	54.0	-6.9	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
2484.650	32.5	-5.4	1.5	250.9	3.0	20.0	Horz	AV	0.0	47.1	54.0	-6.9	EUT Vert, High Ch. 2480 MHz, 2 Mbps, 110VAC/60Hz
2483.977	32.5	-5.4	1.5	56.0	3.0	20.0	Horz	AV	0.0	47.1	54.0	-6.9	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
2483.737	32.4	-5.4	1.5	79.0	3.0	20.0	Horz	AV	0.0	47.0	54.0	-7.0	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2484.237	32.4	-5.4	1.5	276.0	3.0	20.0	Vert	AV	0.0	47.0	54.0	-7.0	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2485.100	32.4	-5.4	1.5	140.0	3.0	20.0	Vert	AV	0.0	47.0	54.0	-7.0	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
2485.020	32.4	-5.4	1.5	186.0	3.0	20.0	Horz	AV	0.0	47.0	54.0	-7.0	EUT Vert, High Ch. 2480 MHz, 125Kbps, 110VAC/60Hz
2484.920	32.4	-5.4	1.5	243.0	3.0	20.0	Horz	AV	0.0	47.0	54.0	-7.0	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
2388.410	32.5	-5.8	1.5	81.0	3.0	20.0	Horz	AV	0.0	46.7	54.0	-7.3	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.607	32.4	-5.8	1.5	122.0	3.0	20.0	Vert	AV	0.0	46.6	54.0	-7.4	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.447	32.4	-5.8	1.5	195.9	3.0	20.0	Horz	AV	0.0	46.6	54.0	-7.4	EUT On Side, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.480	32.4	-5.8	1.5	74.0	3.0	20.0	Vert	AV	0.0	46.6	54.0	-7.4	EUT On Side, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.043	32.3	-5.8	1.77	288.0	3.0	20.0	Horz	AV	0.0	46.5	54.0	-7.5	EUT Horz, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.937	32.3	-5.8	1.5	175.0	3.0	20.0	Vert	AV	0.0	46.5	54.0	-7.5	EUT Horz, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.430	32.3	-5.8	1.5	15.0	3.0	20.0	Horz	AV	0.0	46.5	54.0	-7.5	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.767	32.3	-5.8	1.5	300.0	3.0	20.0	Horz	AV	0.0	46.5	54.0	-7.5	EUT Vert, Low Ch. 2402 MHz, 500Kbps, 110VAC/60Hz
2389.837	32.3	-5.8	1.15	40.9	3.0	20.0	Horz	AV	0.0	46.5	54.0	-7.5	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 3.0 VDC
2389.300	32.3	-5.8	1.5	79.0	3.0	20.0	Vert	AV	0.0	46.5	54.0	-7.5	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 3.0 VDC
2388.547	32.2	-5.8	1.5	147.0	3.0	20.0	Horz	AV	0.0	46.4	54.0	-7.6	EUT Vert, Low Ch. 2402 MHz, 125Kbps, 110VAC/60Hz
2484.023	44.7	-5.4	1.5	56.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	EUT Vert, High Ch. 2480 MHz, 2 Mbps, 110VAC/60Hz
2484.287	44.5	-5.4	1.5	196.9	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2388.810	44.8	-5.8	1.5	74.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	EUT On Side, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.803	44.8	-5.8	1.5	15.0	3.0	20.0	Horz	PK	0.0	59.0	74.0	-15.0	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2485.203	44.3	-5.4	1.5	282.0	3.0	20.0	Horz	PK	0.0	58.9	74.0	-15.1	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2484.963	44.2	-5.4	1.5	243.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2483.767	44.2	-5.4	1.5	140.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
2484.033	44.1	-5.4	1.5	243.0	3.0	20.0	Horz	PK	0.0	58.7	74.0	-15.3	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
2484.850	44.0	-5.4	1.5	162.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4	EUT On Side, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2484.667	44.0	-5.4	1.5	79.0	3.0	20.0	Horz	PK	0.0	58.6	74.0	-15.4	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2483.753	44.0	-5.4	1.5	276.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4	EUT Horz, High Ch. 2480 MHz, 1 Mbps, 110VAC/60Hz
2484.617	44.0	-5.4	1.5	186.0	3.0	20.0	Horz	PK	0.0	58.6	74.0	-15.4	EUT Vert, High Ch. 2480 MHz, 125Kbps, 110VAC/60Hz

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
2483.837	43.8	-5.4	1.5	0.0	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	EUT Vert, High Ch. 2480 MHz, 1 Mbps, 3.0 VDC
2484.650	43.8	-5.4	1.5	250.9	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	EUT Vert, High Ch. 2480 MHz, 500Kbps, 110VAC/60Hz
2388.523	44.1	-5.8	1.5	195.9	3.0	20.0	Horz	PK	0.0	58.3	74.0	-15.7	EUT On Side, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.517	44.0	-5.8	1.5	300.0	3.0	20.0	Horz	PK	0.0	58.2	74.0	-15.8	EUT Vert, Low Ch. 2402 MHz, 500Kbps, 110VAC/60Hz
2389.360	44.0	-5.8	1.5	79.0	3.0	20.0	Vert	PK	0.0	58.2	74.0	-15.8	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 3.0 VDC
2389.830	43.9	-5.8	1.5	81.0	3.0	20.0	Horz	PK	0.0	58.1	74.0	-15.9	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.647	43.9	-5.8	1.5	175.0	3.0	20.0	Vert	PK	0.0	58.1	74.0	-15.9	EUT Horz, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2388.723	43.8	-5.8	1.5	122.0	3.0	20.0	Vert	PK	0.0	58.0	74.0	-16.0	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.323	43.6	-5.8	1.77	288.0	3.0	20.0	Horz	PK	0.0	57.8	74.0	-16.2	EUT Horz, Low Ch. 2402 MHz, 1 Mbps, 110VAC/60Hz
2389.447	43.5	-5.8	1.5	147.0	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	EUT Vert, Low Ch. 2402 MHz, 125Kbps, 110VAC/60Hz
2389.397	43.5	-5.8	1.15	40.9	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	EUT Vert, Low Ch. 2402 MHz, 1 Mbps, 3.0 VDC

End of Test Report