

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



XMH 2023.02.14.0

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TelTx 2022.06.03.0 XMit 2023.02.14.0

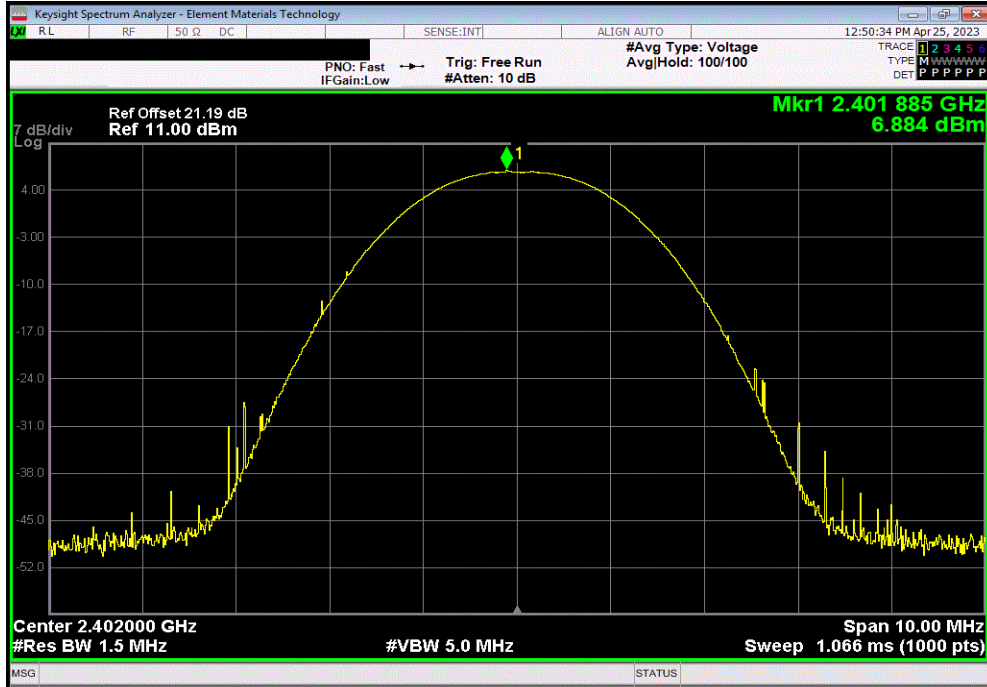
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 23.3°C	
Attendees: Navaid Karimi		Humidity: 38.2%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin		Power: 4.2VDC via Battery	
		Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Out Pwr (dBm)	Antenna Gain (dBi)
		EIRP (dBm)	EIRP Limit (dBm)
			Result
DH5, GFSK			
	Low Channel, 2402 MHz	6.884	2.7
	Mid Channel, 2440 MHz	6.897	2.7
	High Channel, 2480 MHz	6.511	2.7
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	5.49	2.7
	Mid Channel, 2440 MHz	5.515	2.7
	High Channel, 2480 MHz	4.969	2.7
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	5.991	2.7
	Mid Channel, 2440 MHz	5.959	2.7
	High Channel, 2480 MHz	5.307	2.7

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

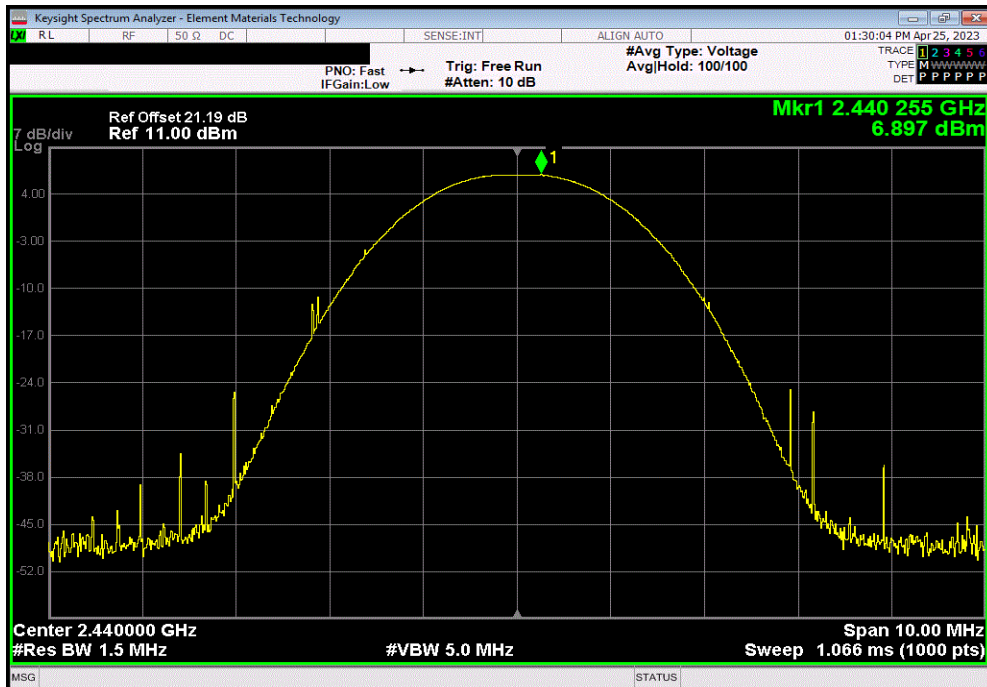


TbTx 2022.06.03.0 XMi 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
6.884	2.7	9.584	27	Pass		



DH5, GFSK, Mid Channel, 2440 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
6.897	2.7	9.597	27	Pass		

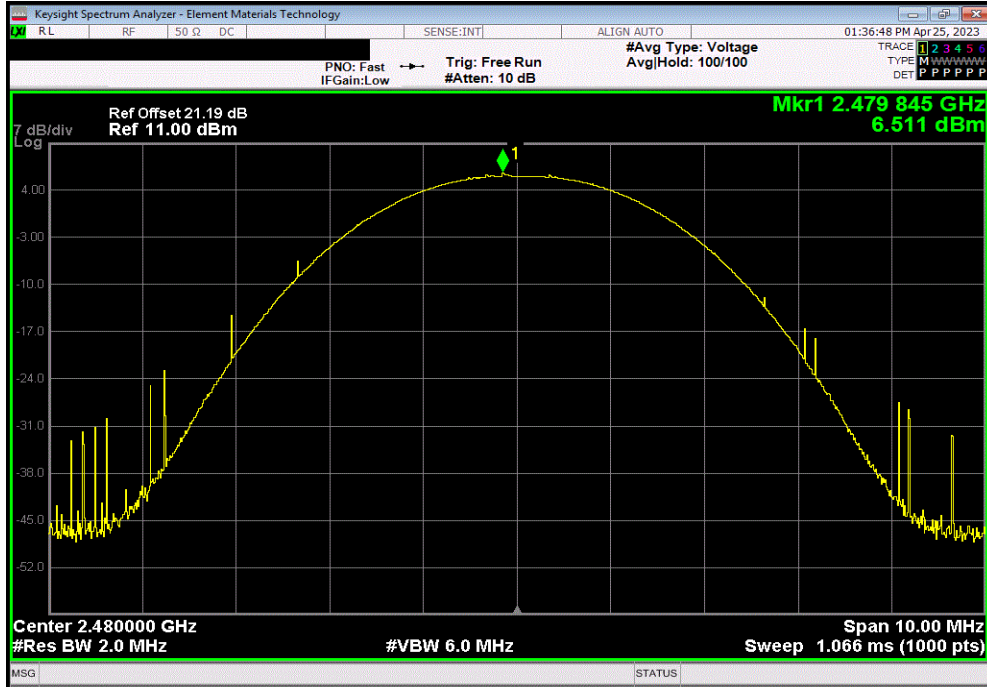


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

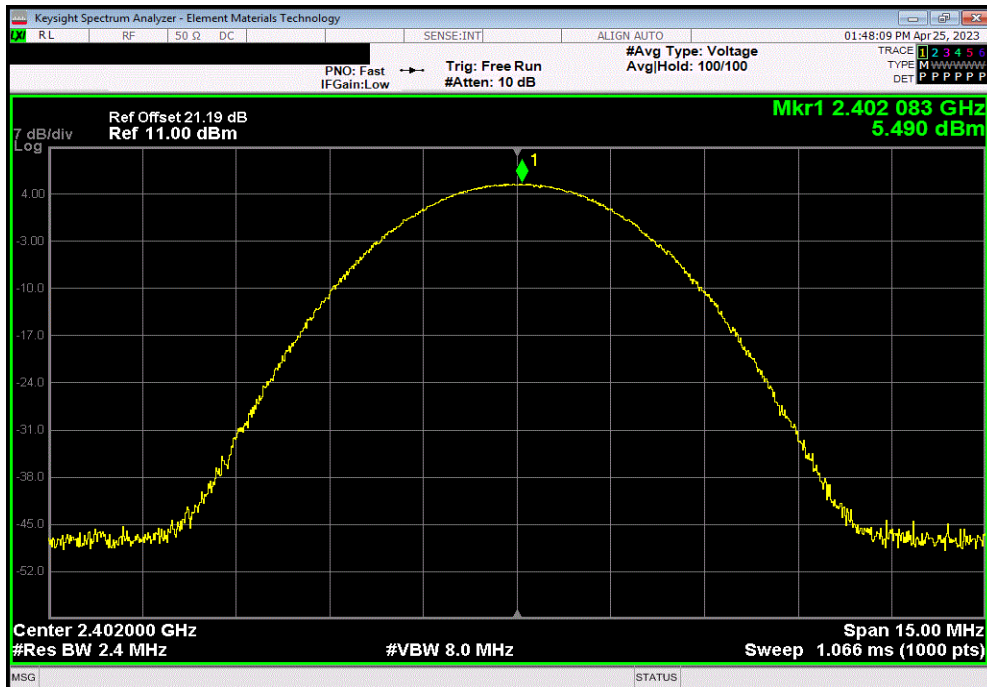


TbTx 2022.06.03.0 XMt 2023.02.14.0

DH5, GFSK, High Channel, 2480 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
6.511	2.7	9.211	27	Pass	



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
5.49	2.7	8.19	27	Pass	

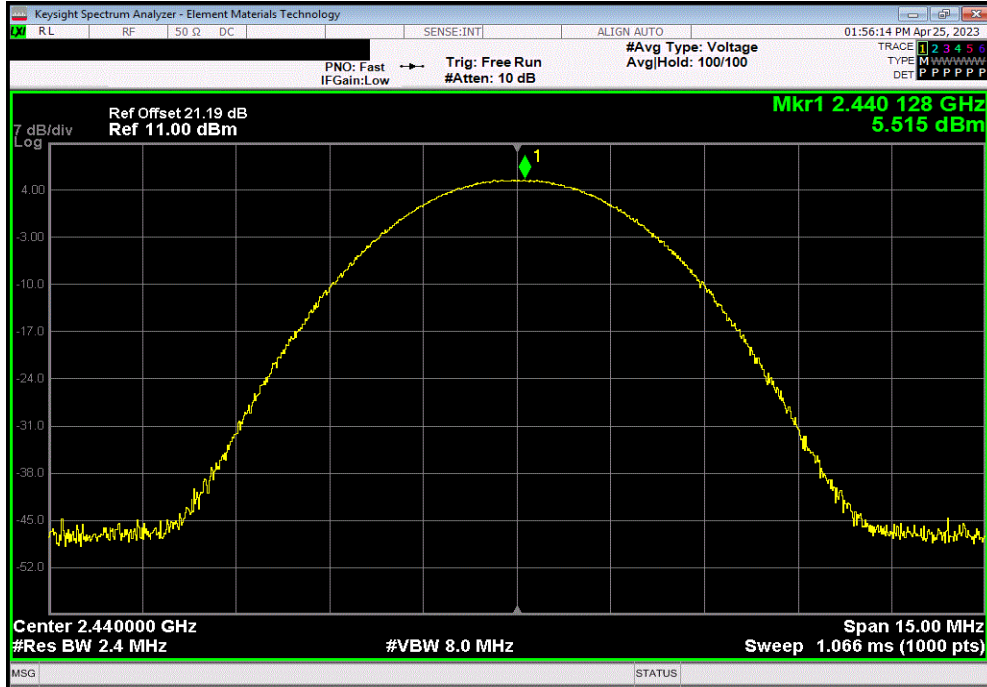


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

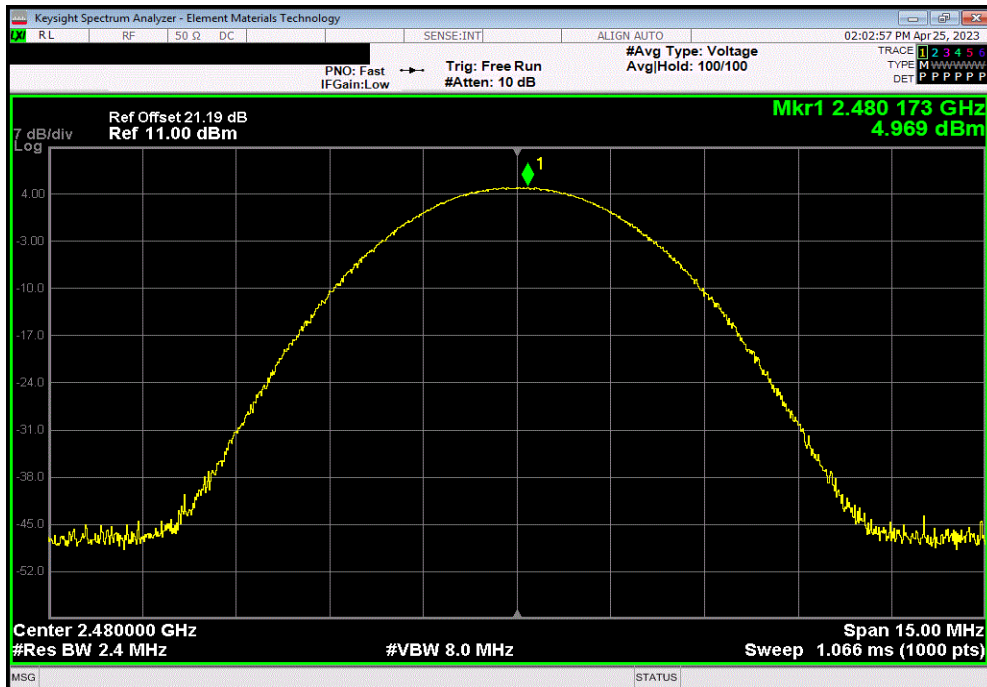


TbTx 2022.06.03.0 XMt 2023.02.14.0

2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
5.515	2.7	8.215	27	Pass		



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
4.969	2.7	7.669	27	Pass		

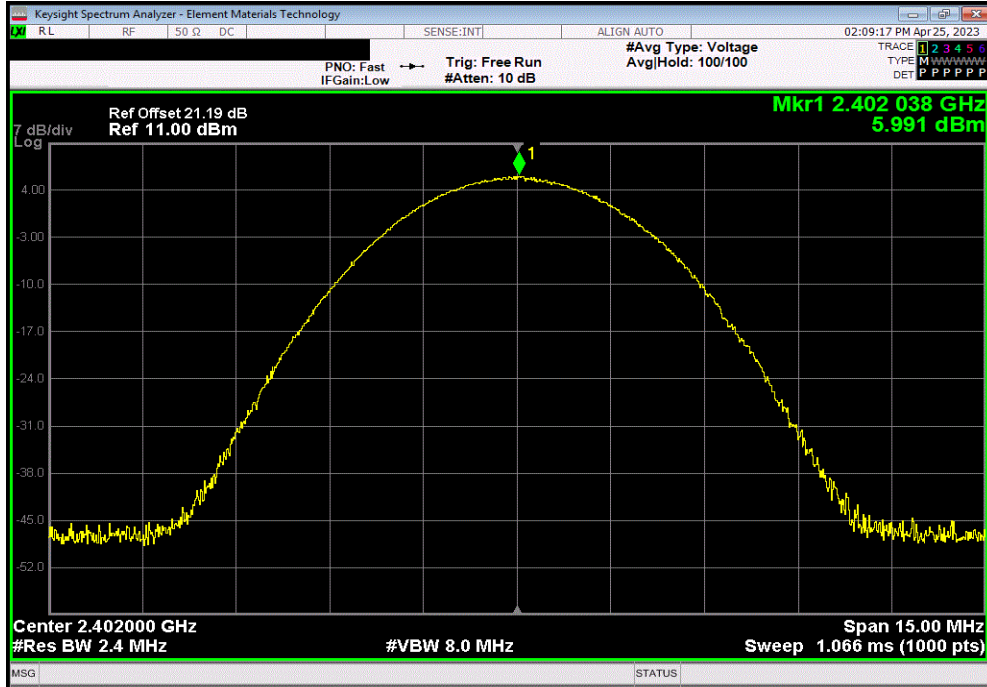


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

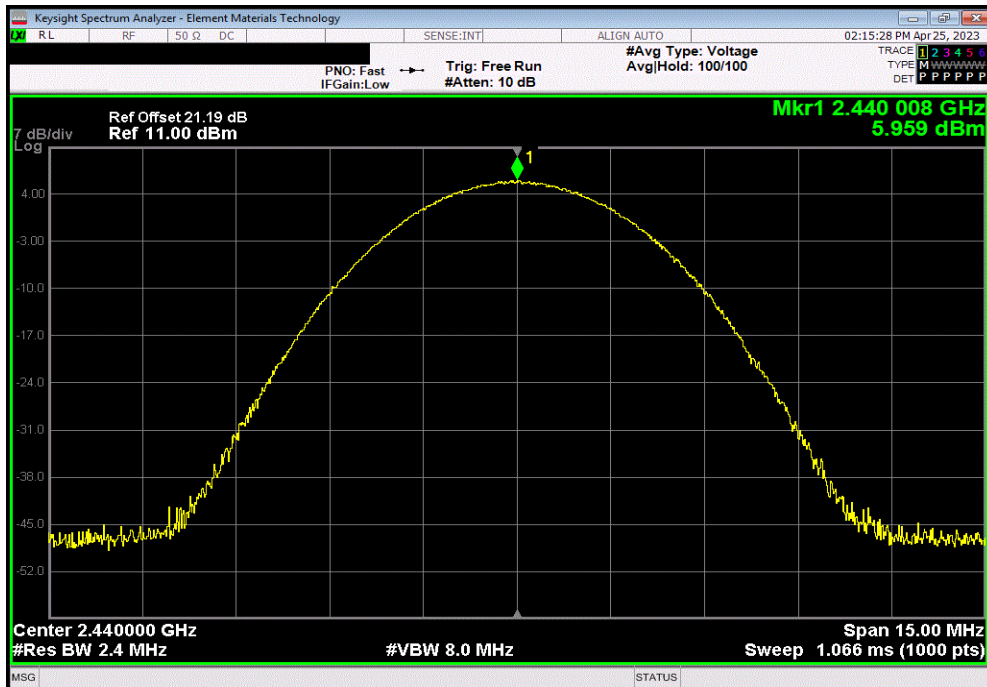


TbTx 2022.06.03.0 XMt 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
5.991	2.7	8.691	27	Pass		



3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
5.959	2.7	8.659	27	Pass		

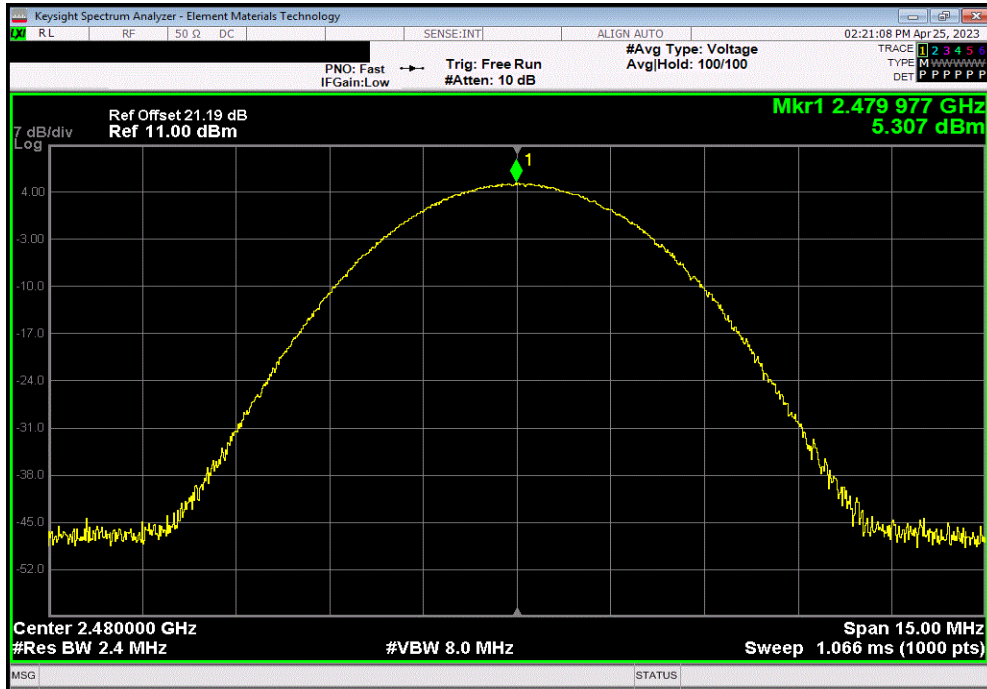


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, High Channel, 2480 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
5.307	2.7	8.007	27	Pass	



OUTPUT POWER



element

XMIT 2023.02.14.0

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TEST EQUIPMENT

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

TEST DESCRIPTION

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

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

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OUTPUT POWER



TelTx 2022.06.03.0 XMI 2023.02.14.0

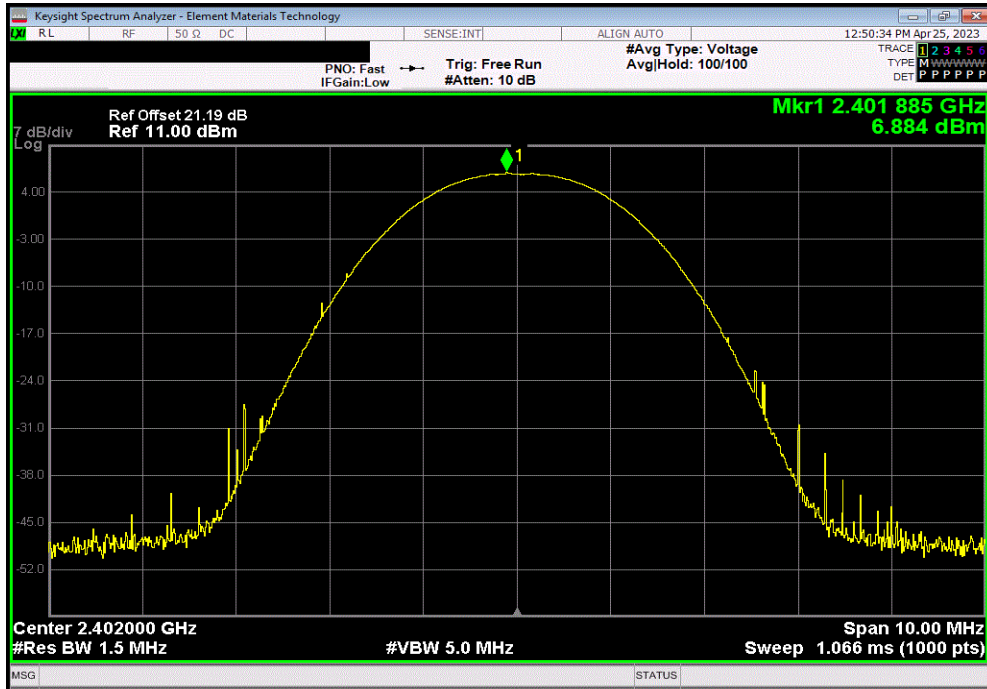
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 23.3°C	
Attendees: Navaid Karimi		Humidity: 38.5%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin	Power: 4.2VDC via Battery	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Out Pwr (dBm)	Limit (dBm) Result
DH5, GFSK			
	Low Channel, 2402 MHz	6.884	21 Pass
	Mid Channel, 2440 MHz	6.897	21 Pass
	High Channel, 2480 MHz	6.511	21 Pass
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	5.49	21 Pass
	Mid Channel, 2440 MHz	5.515	21 Pass
	High Channel, 2480 MHz	4.969	21 Pass
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	5.991	21 Pass
	Mid Channel, 2440 MHz	5.959	21 Pass
	High Channel, 2480 MHz	5.307	21 Pass

OUTPUT POWER

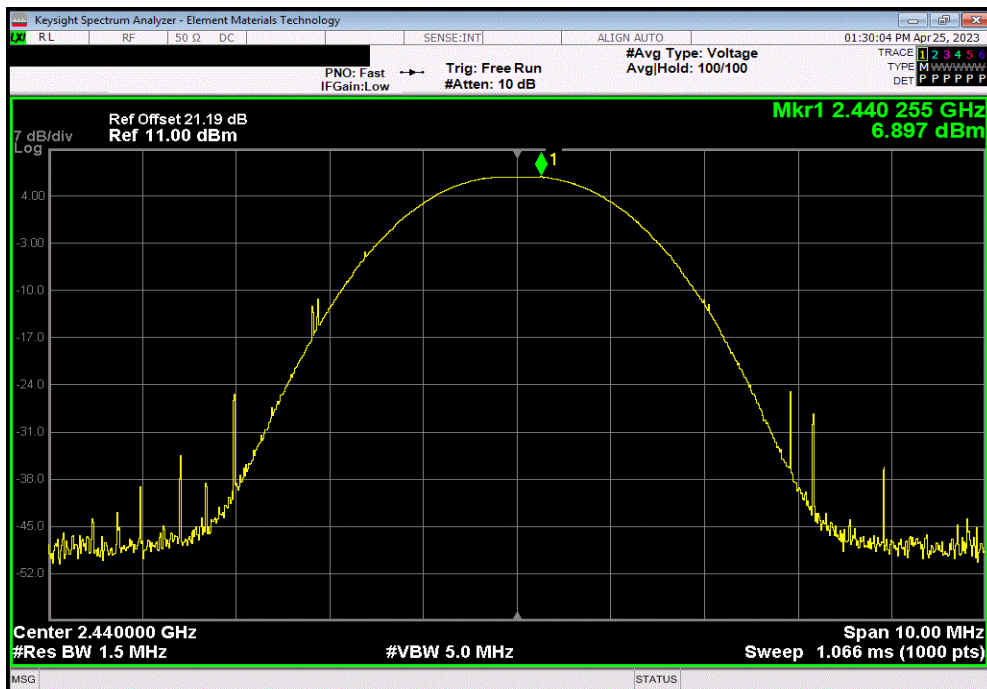


TbTx 2022.06.03.0 XMi 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				6.884	21	Pass



DH5, GFSK, Mid Channel, 2440 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				6.897	21	Pass

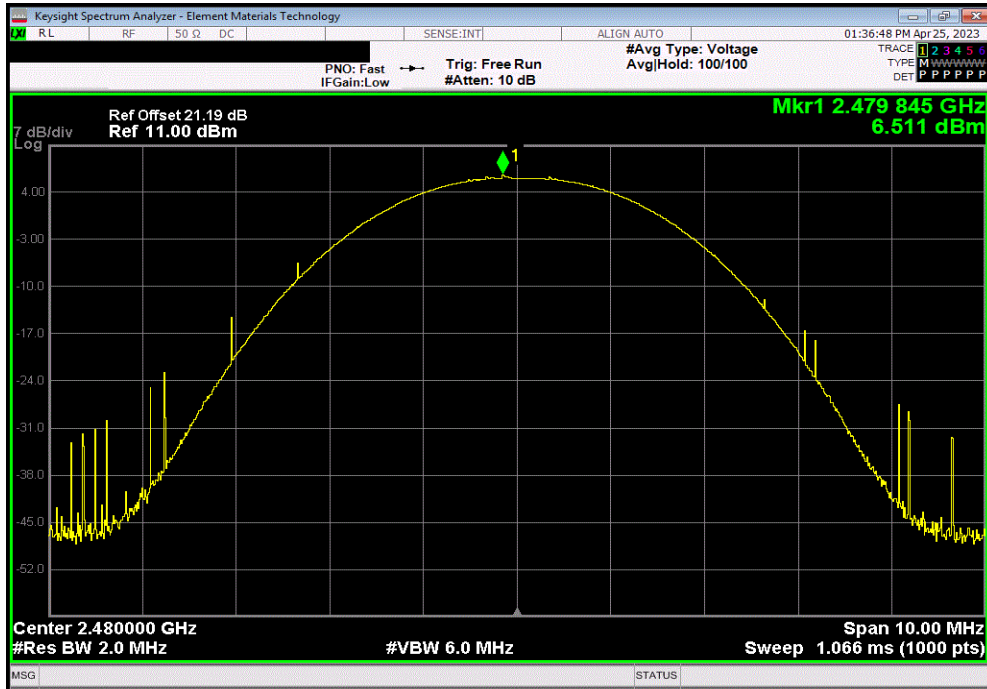


OUTPUT POWER

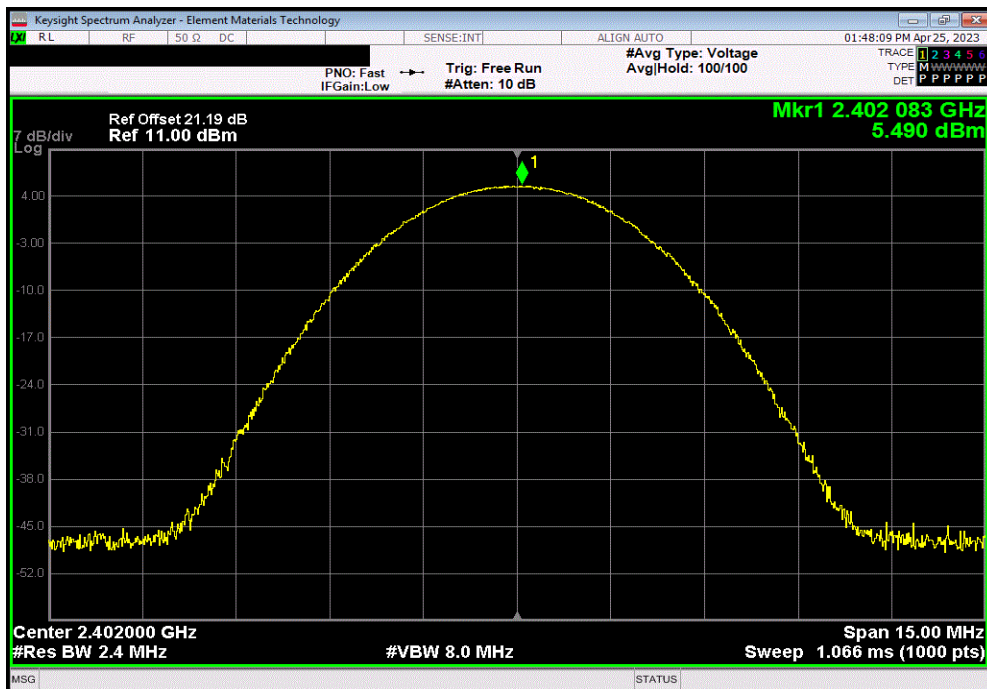


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, High Channel, 2480 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				6.511	21	Pass



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				5.49	21	Pass

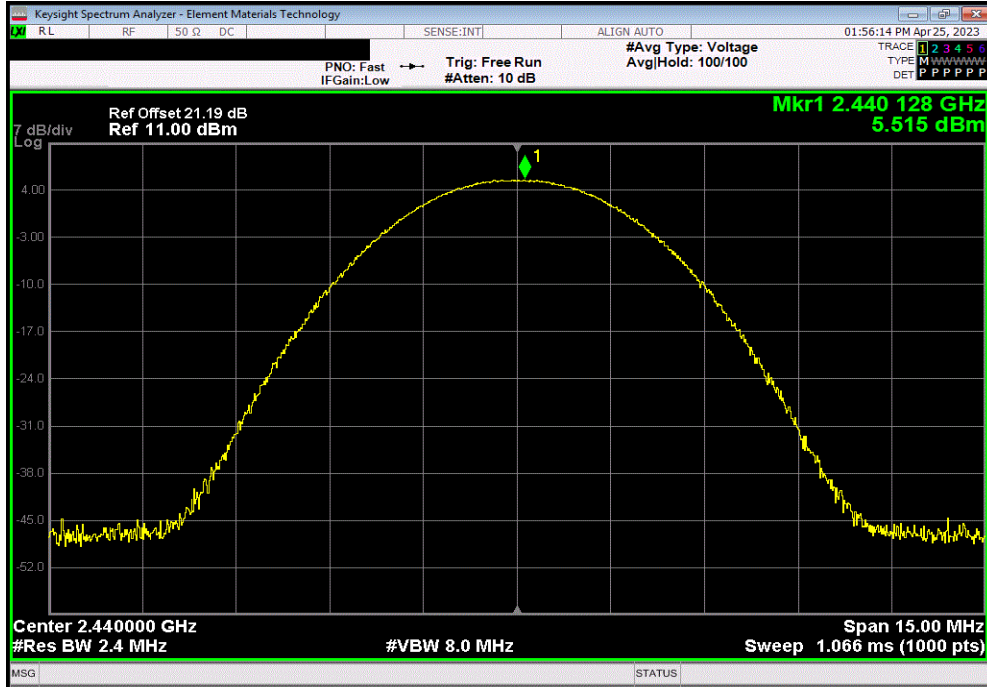


OUTPUT POWER

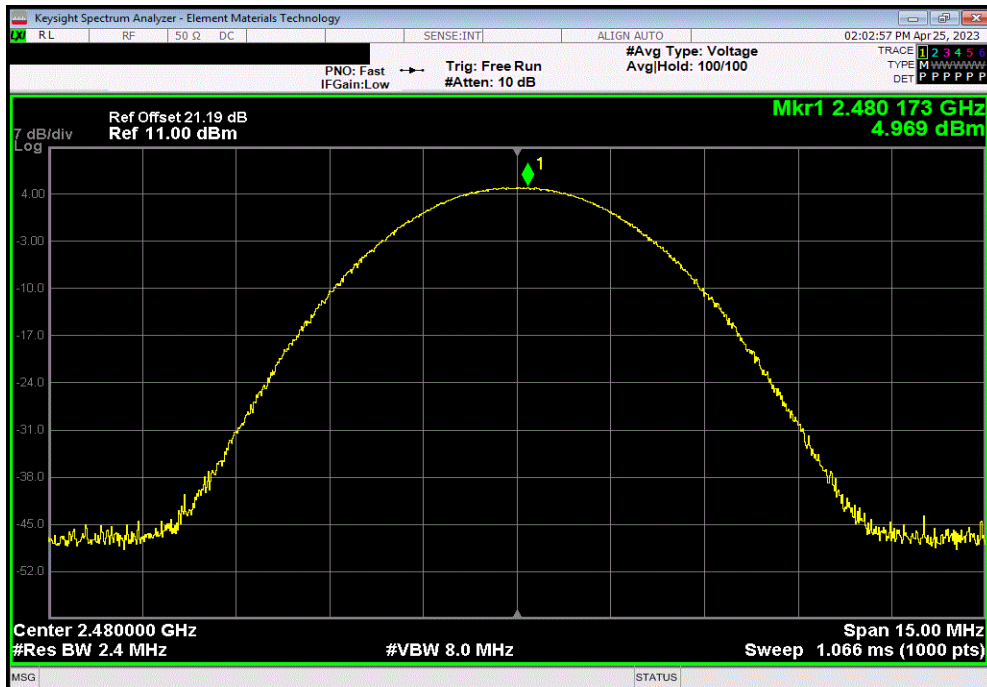


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
	Out Pwr (dBm)	Limit (dBm)	Result			
	5.515	21	Pass			



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
	Out Pwr (dBm)	Limit (dBm)	Result			
	4.969	21	Pass			

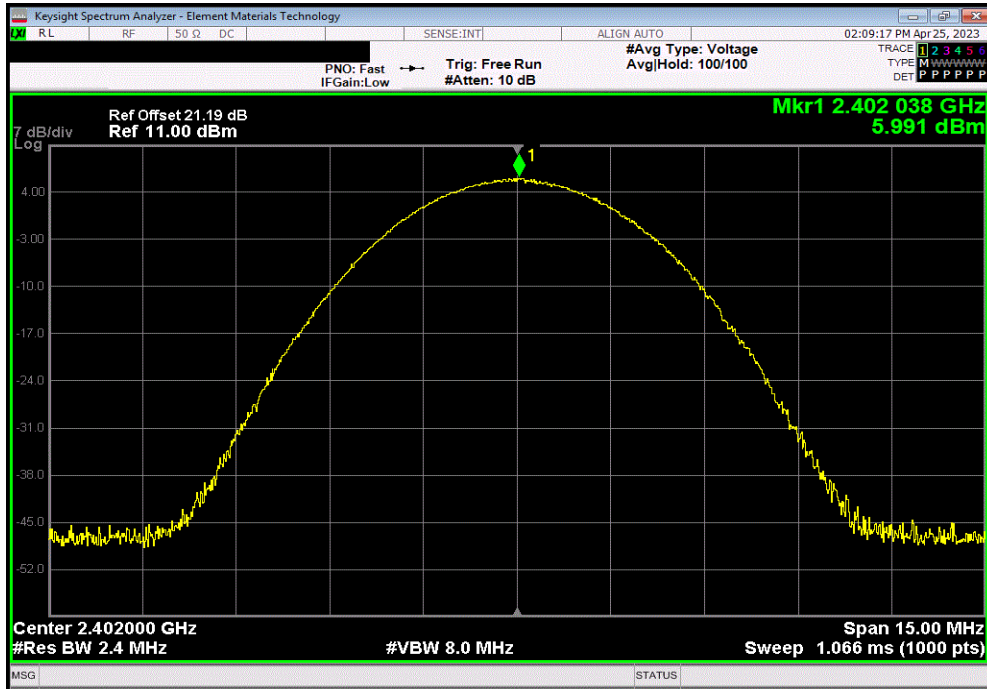


OUTPUT POWER

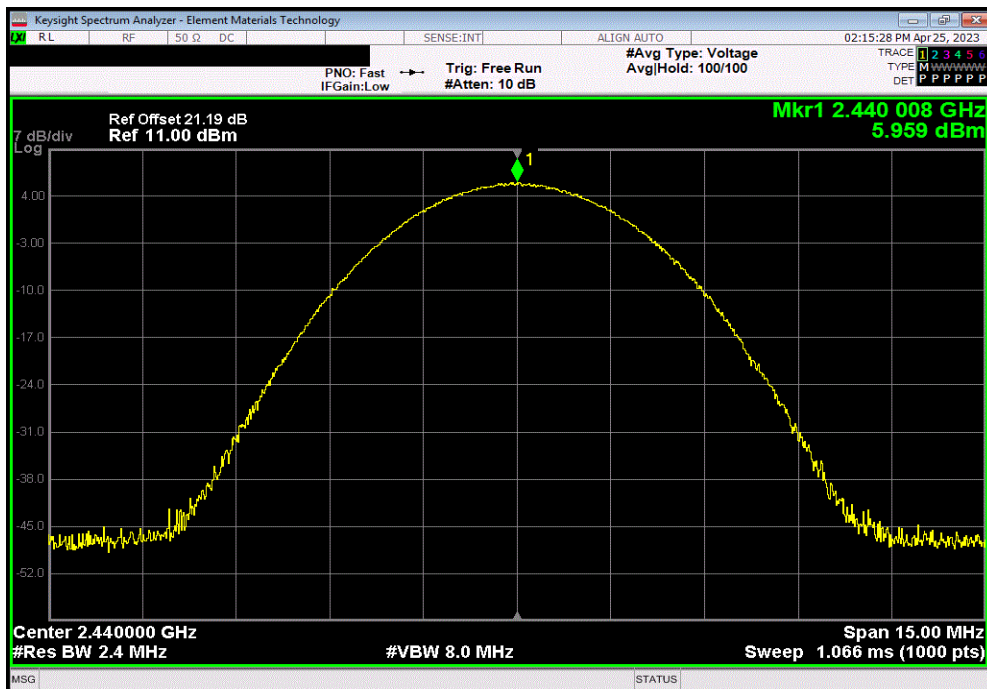


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				5.991	21	Pass



3DH5, 8-DPSK, Mid Channel, 2440 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				5.959	21	Pass

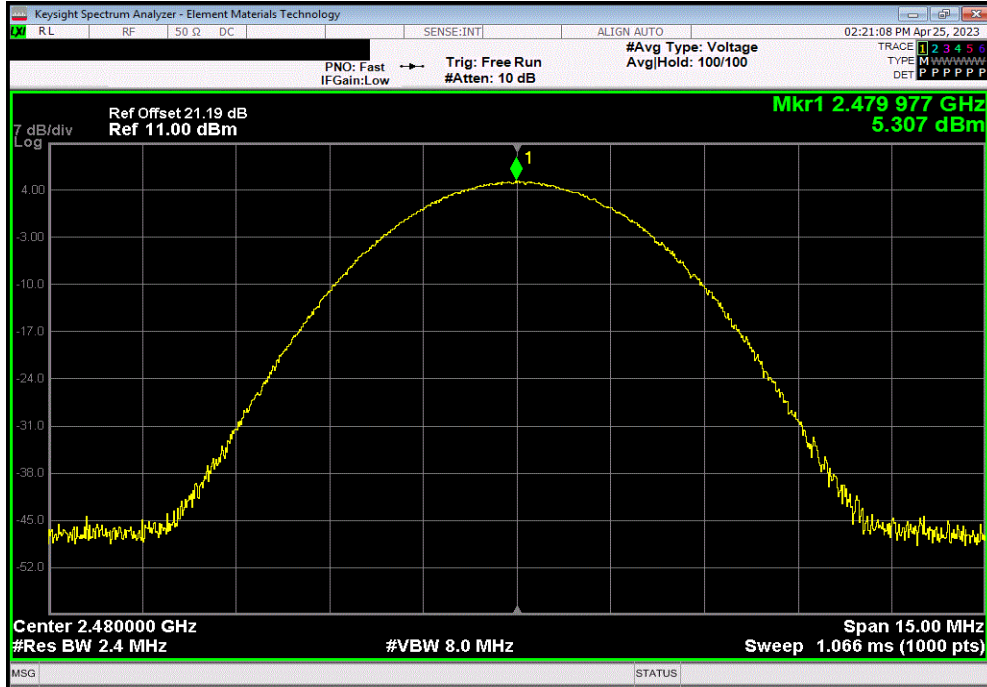


OUTPUT POWER



TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, High Channel, 2480 MHz						
				Out Pwr (dBm)	Limit (dBm)	Result
				5.307	21	Pass



BAND EDGE COMPLIANCE



XMIT 2023.02.14.0

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

The spurious RF conducted emissions 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



TelTx 2022.06.03.0 XMit 2023.02.14.0

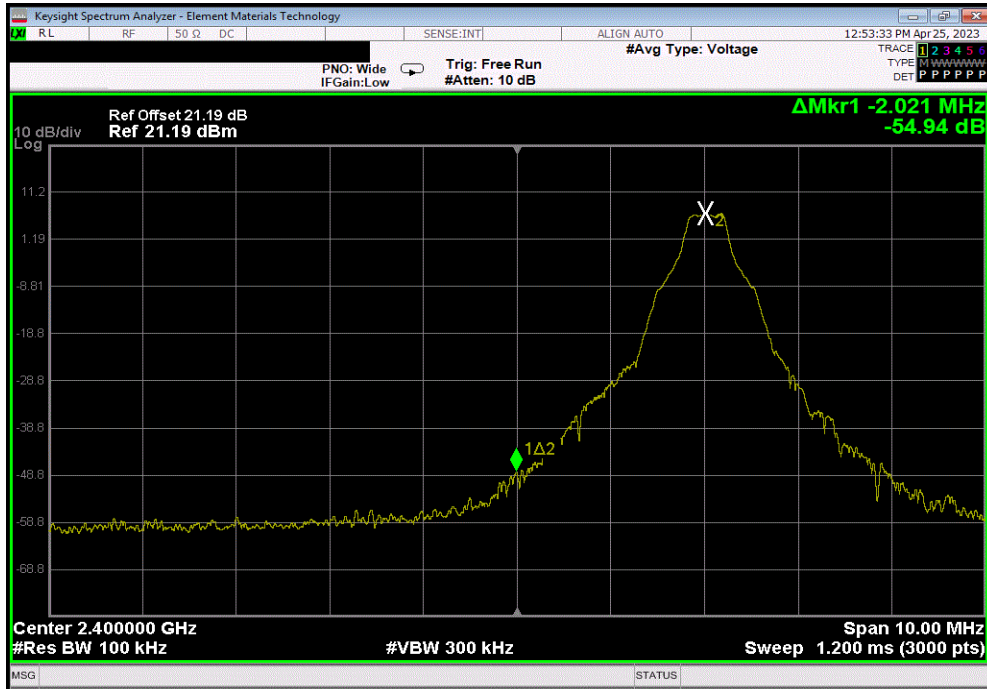
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 23.2°C	
Attendees: Navaid Karimi		Humidity: 38.6%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin	Power: 4.2VDC via Battery	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Value (dBc)	Limit ≤ (dBc) Result
DH5, GFSK			
	Low Channel, 2402 MHz	-54.94	-20 Pass
	High Channel, 2480 MHz	-56.29	-20 Pass
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	-47.63	-20 Pass
	High Channel, 2480 MHz	-57.59	-20 Pass
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	-47.81	-20 Pass
	High Channel, 2480 MHz	-56.98	-20 Pass

BAND EDGE COMPLIANCE

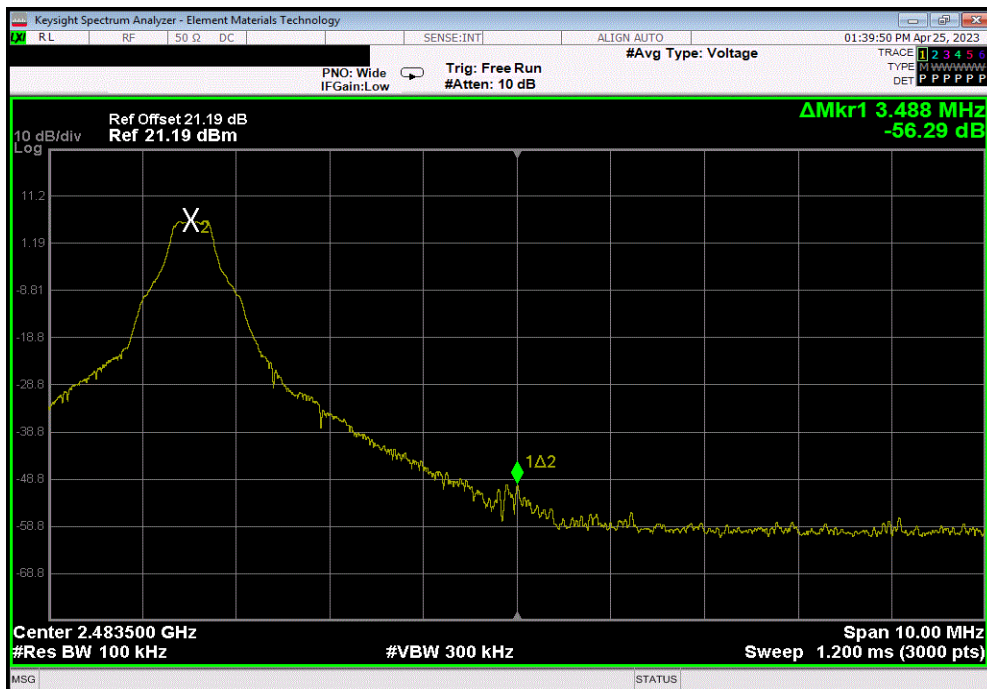


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-54.94	-20	Pass



DH5, GFSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-56.29	-20	Pass

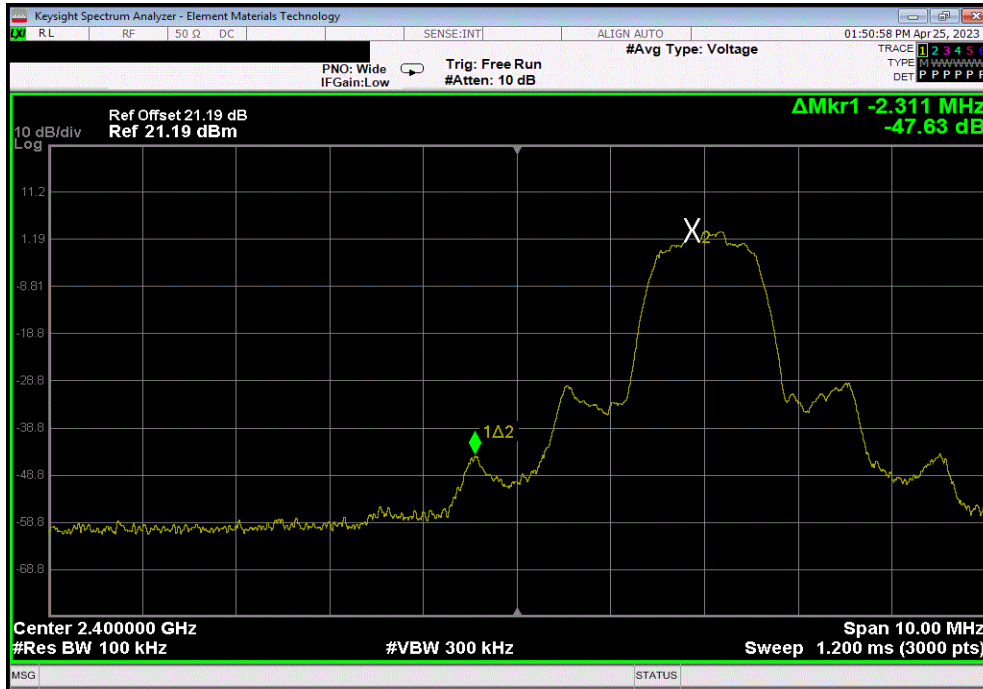


BAND EDGE COMPLIANCE

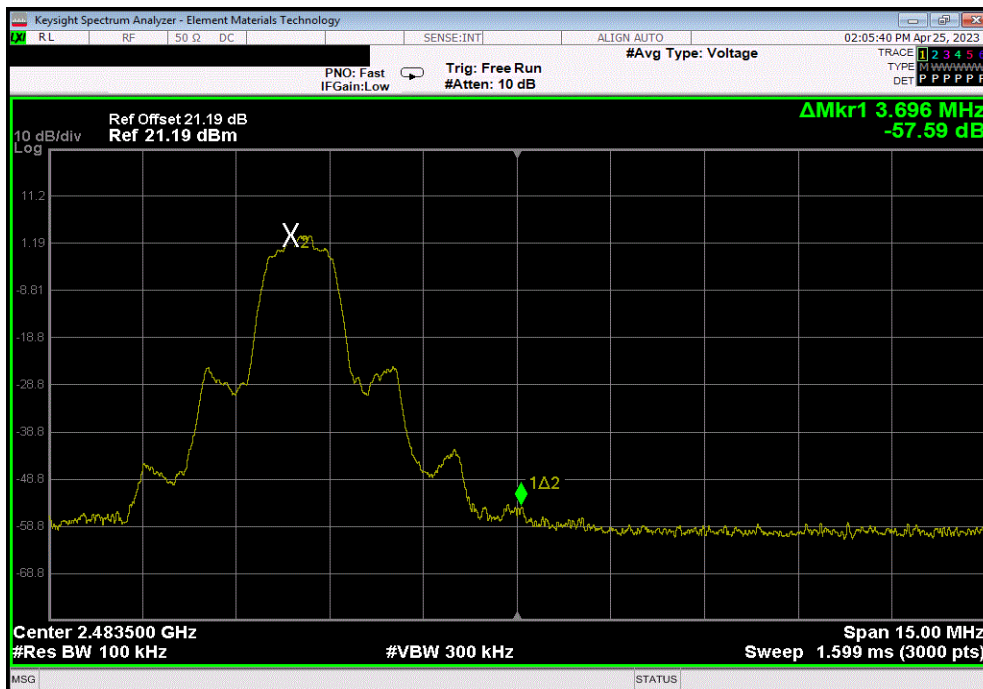


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-47.63	-20	Pass			



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-57.59	-20	Pass			

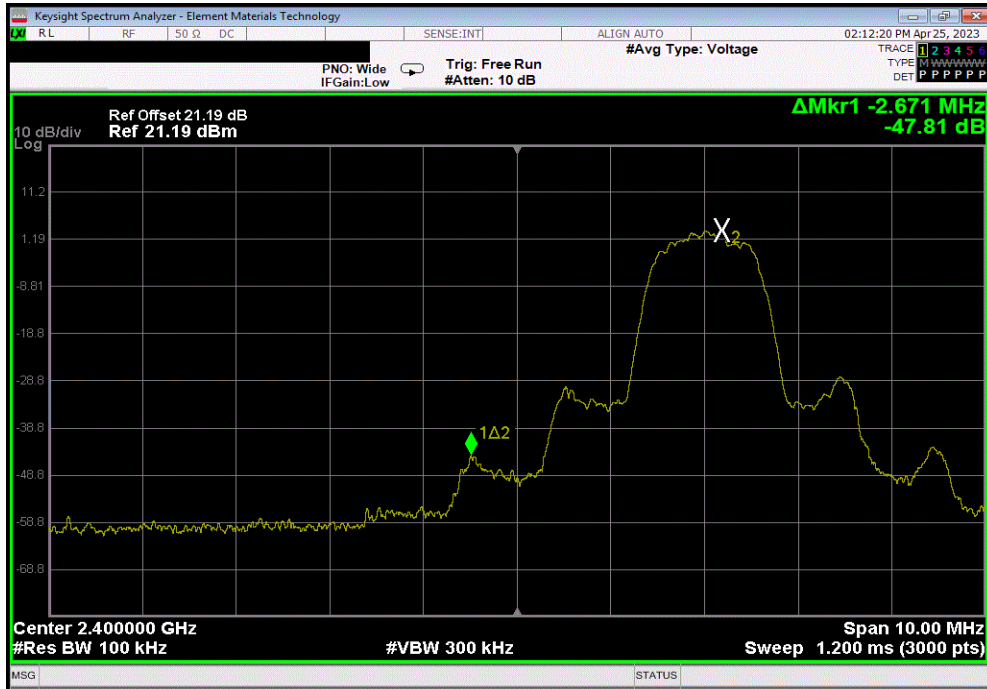


BAND EDGE COMPLIANCE

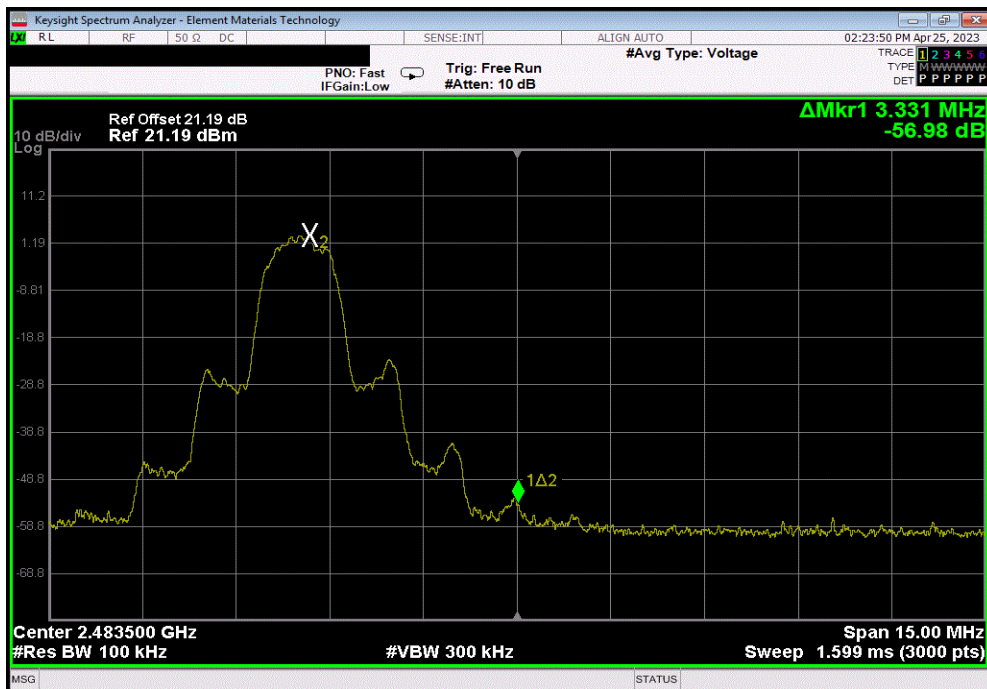


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-47.81	-20	Pass			



3DH5, 8-DPSK, High Channel, 2480 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-56.98	-20	Pass			





XMIT 2023.02.14.0

BAND EDGE COMPLIANCE - HOPPING MODE

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Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

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

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to its normal pseudo-random hopping sequence. 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 - HOPPING MODE



TelTx 2022.06.03.0 XMI 2023.02.14.0

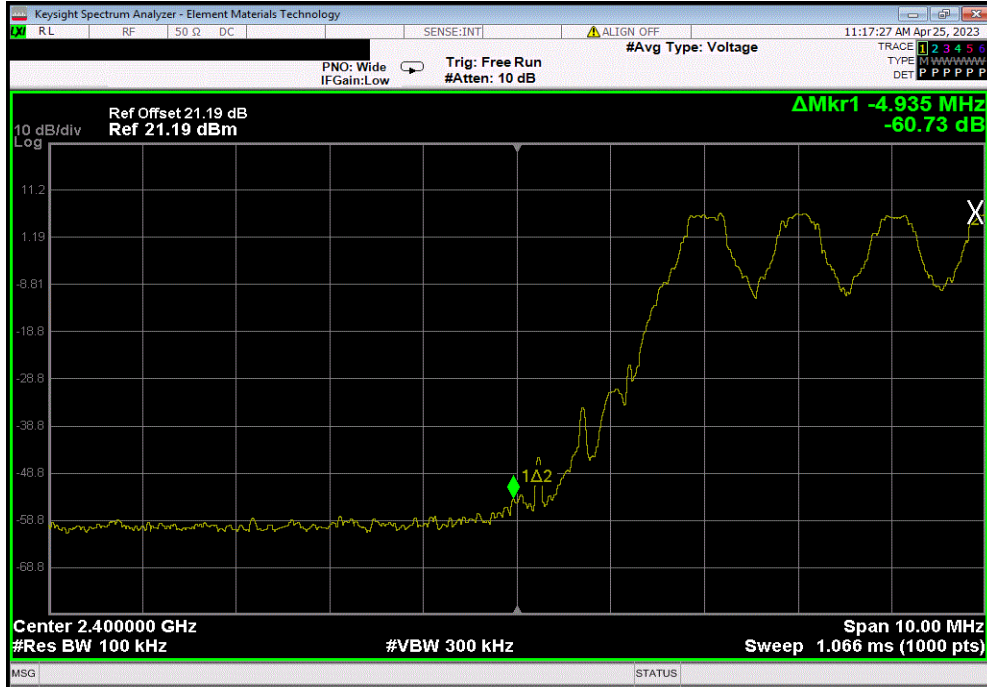
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 22.7°C	
Attendees: Navaid Karimi		Humidity: 38.8%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin	Power: 4.2VDC via Battery	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Value (dBc)	Limit ≤ (dBc) Result
Hopping Mode (All Channels)			
DH5, GFSK			
	Low Channel, 2402 MHz	-60.73	-20 Pass
	High Channel, 2480 MHz	-65.39	-20 Pass
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	-50.65	-20 Pass
	High Channel, 2480 MHz	-59.72	-20 Pass
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	-50.4	-20 Pass
	High Channel, 2480 MHz	-56.92	-20 Pass

BAND EDGE COMPLIANCE - HOPPING MODE

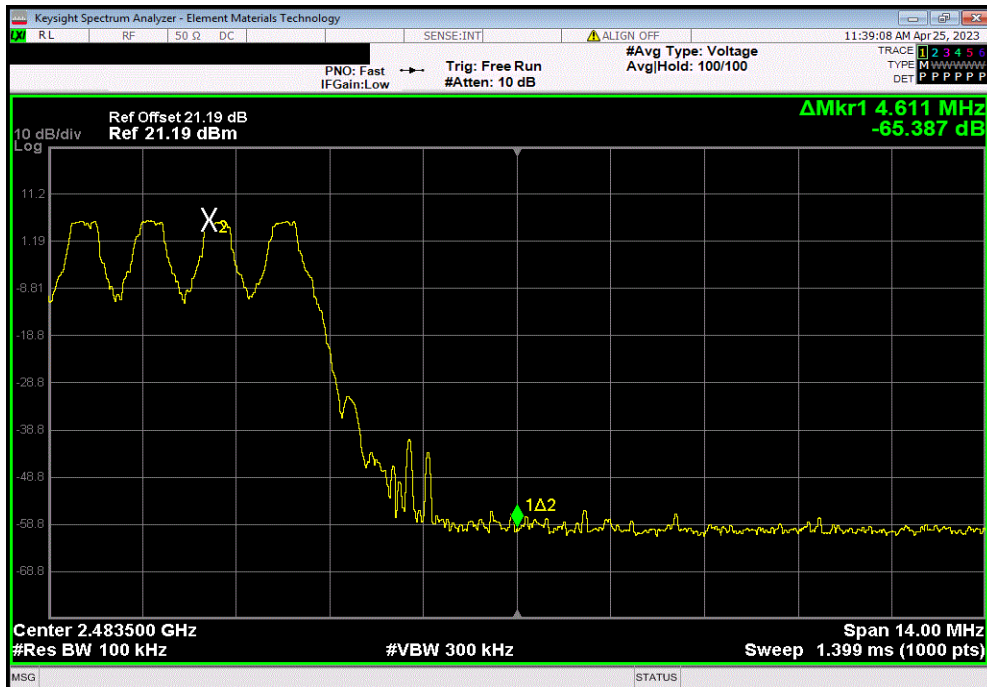


TbTx 2022.06.03.0 XMI 2023.02.14.0

Hopping Mode (All Channels), DH5, GFSK, Low Channel, 2402 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-60.73	-20	Pass			



Hopping Mode (All Channels), DH5, GFSK, High Channel, 2480 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-65.39	-20	Pass			

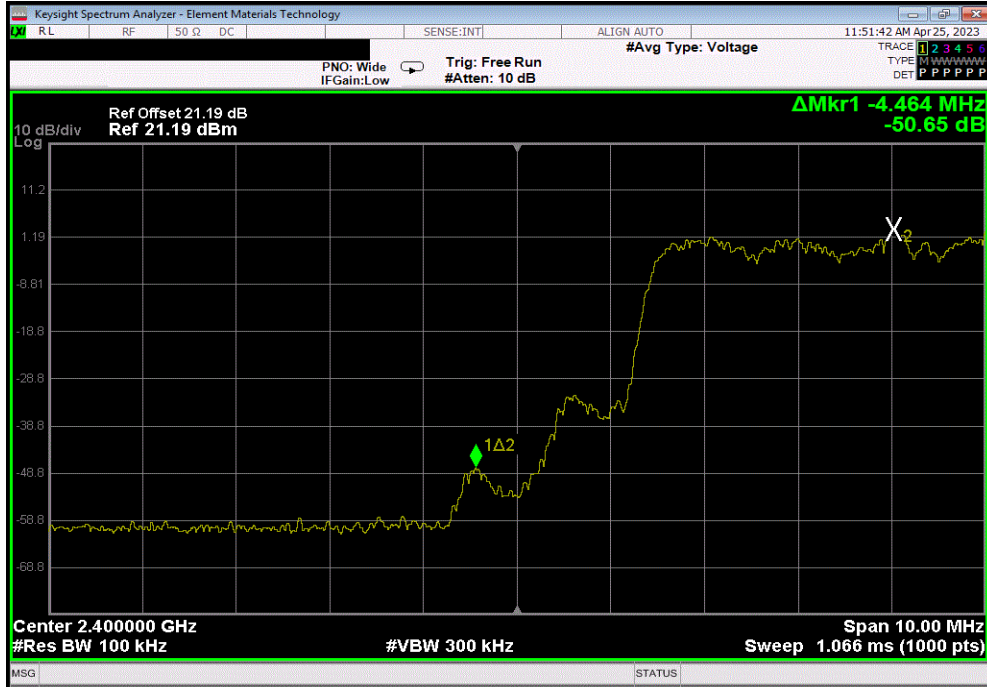


BAND EDGE COMPLIANCE - HOPPING MODE

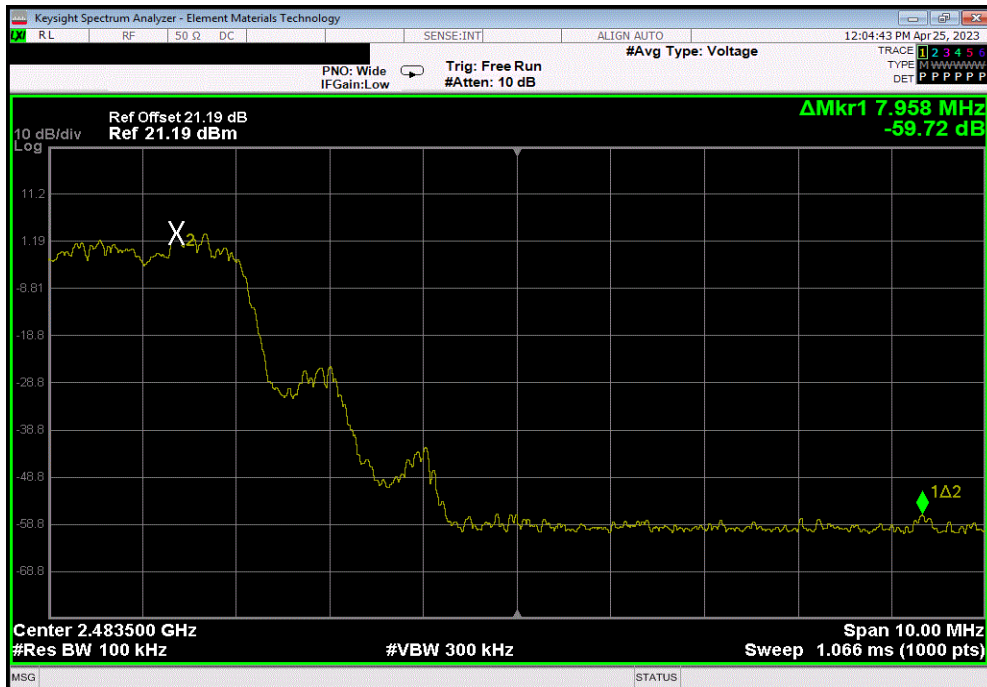


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Hopping Mode (All Channels), 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-50.65	-20	Pass			



Hopping Mode (All Channels), 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-59.72	-20	Pass			

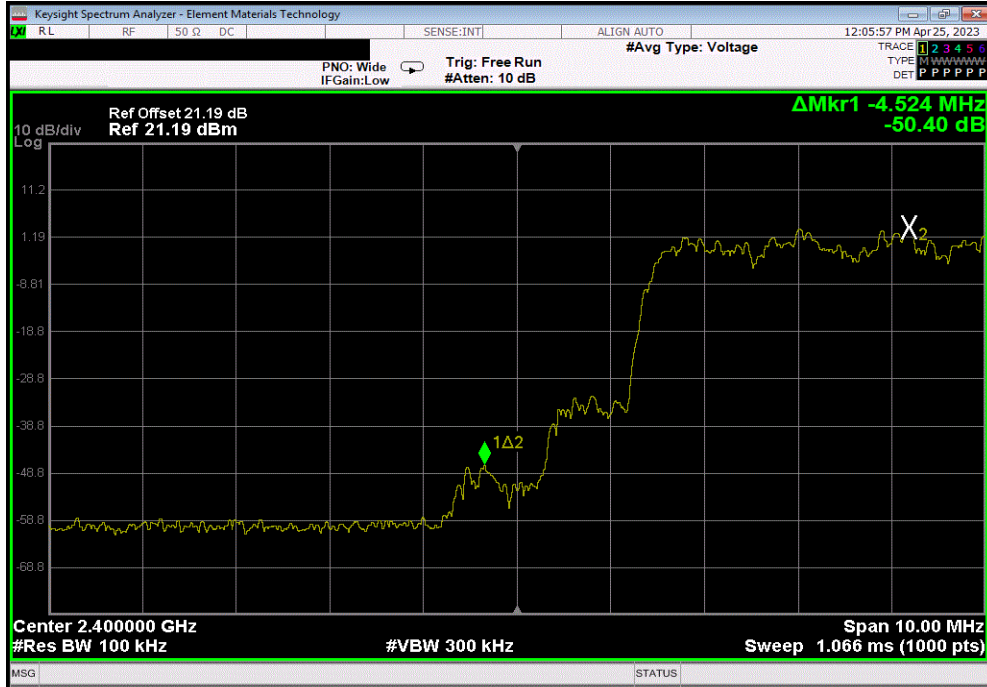


BAND EDGE COMPLIANCE - HOPPING MODE

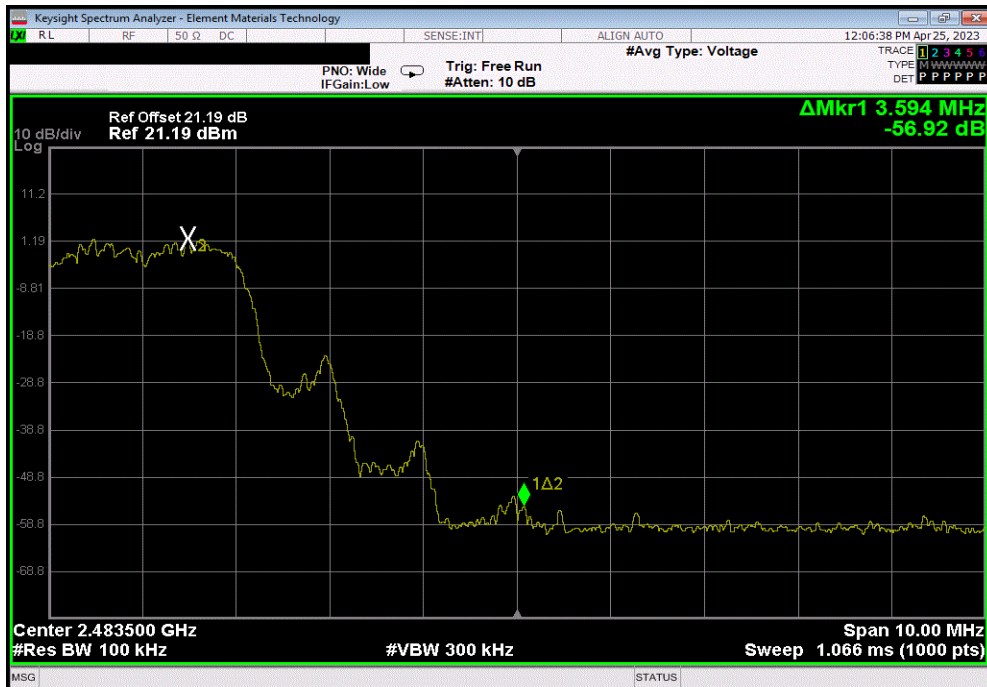


TbTx 2022.06.03.0 XMI 2023.02.14.0

Hopping Mode (All Channels), 3DH5, 8-DPSK, Low Channel, 2402 MHz						
	Value	Limit				
	(dBc)	≤ (dBc)				Result
	-50.4	-20				Pass



Hopping Mode (All Channels), 3DH5, 8-DPSK, High Channel, 2480 MHz						
	Value	Limit				
	(dBc)	≤ (dBc)				Result
	-56.92	-20				Pass



EMISSIONS BANDWIDTH



XMH 2023.02.14.0

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

TEST EQUIPMENT

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

TEST DESCRIPTION

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

The 20 dB emissions bandwidth was measured with the EUT set to low, medium and high transmit frequencies in the band. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

EMISSIONS BANDWIDTH



TelTx 2022.06.03.0 XMit 2023.02.14.0

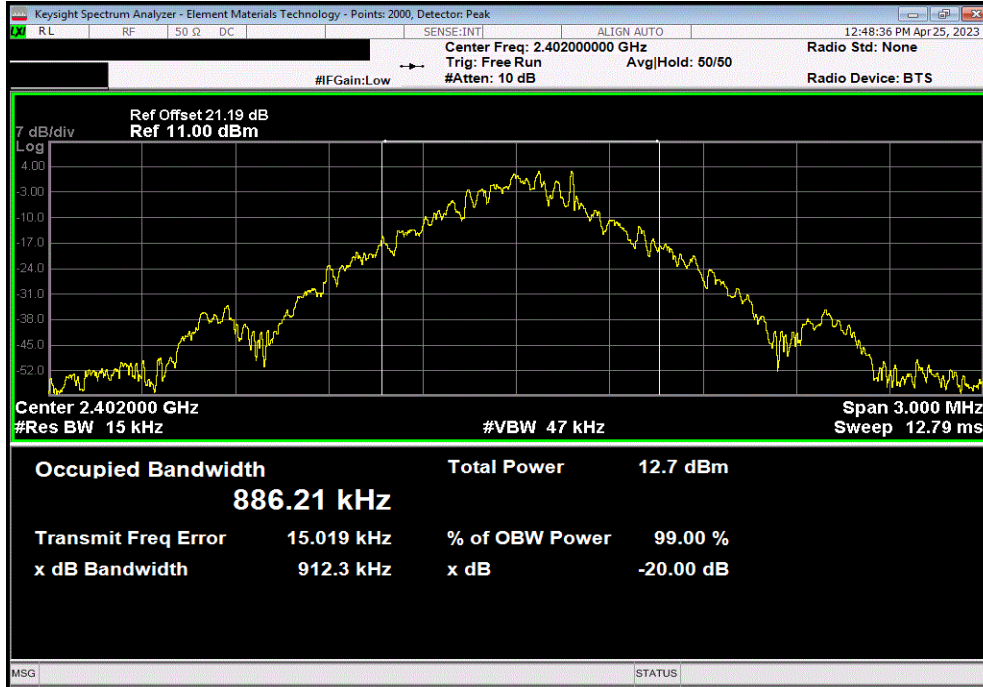
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 23.3°C	
Attendees: Navaid Karimi		Humidity: 38.4%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin		Power: 4.2VDC via Battery	
		Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Value	Limit (<)
DH5, GFSK			
	Low Channel, 2402 MHz	912.307 kHz	1.5 MHz
	Mid Channel, 2440 MHz	930.635 kHz	1.5 MHz
	High Channel, 2480 MHz	934.475 kHz	1.5 MHz
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	1.358 MHz	1.5 MHz
	Mid Channel, 2440 MHz	1.332 MHz	1.5 MHz
	High Channel, 2480 MHz	1.389 MHz	1.5 MHz
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	1.289 MHz	1.5 MHz
	Mid Channel, 2440 MHz	1.344 MHz	1.5 MHz
	High Channel, 2480 MHz	1.308 MHz	1.5 MHz
			Result
			Pass
			Pass
			Pass
			Pass
			Pass
			Pass

EMISSIONS BANDWIDTH

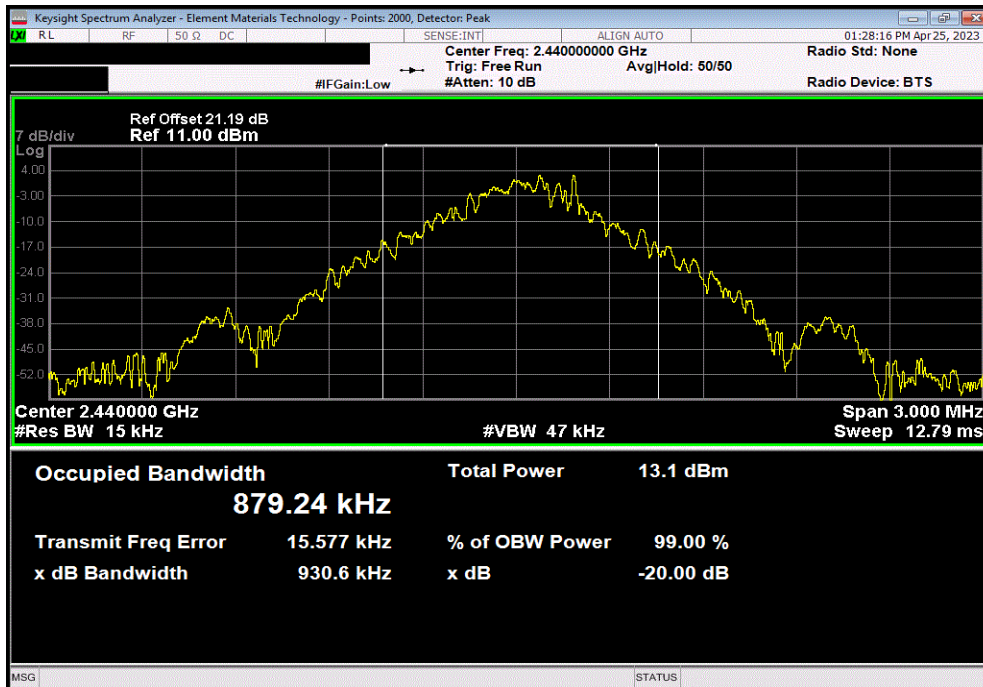


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz						
				Value	Limit	Result
					(<)	
				912.307 kHz	1.5 MHz	Pass



DH5, GFSK, Mid Channel, 2440 MHz						
				Value	Limit	Result
					(<)	
				930.635 kHz	1.5 MHz	Pass

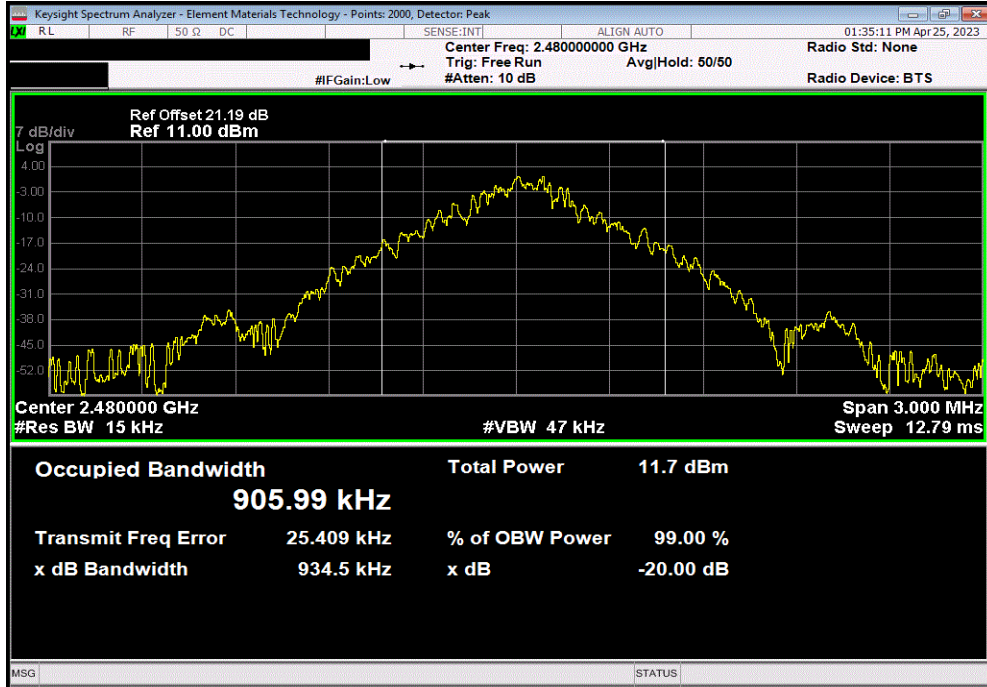


EMISSIONS BANDWIDTH

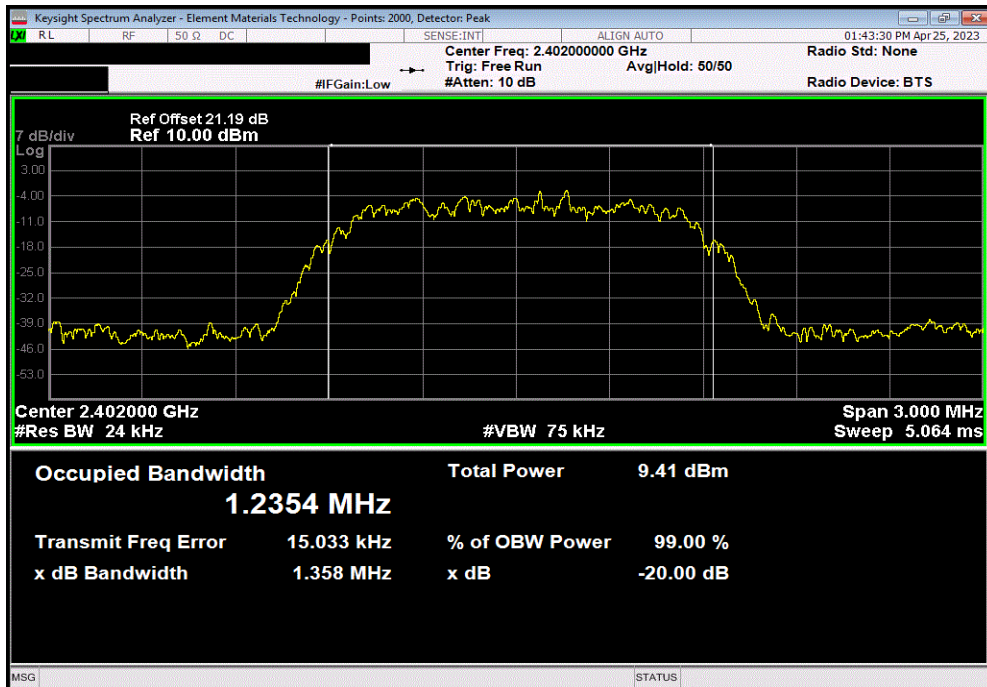


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				934.475 kHz	1.5 MHz	Pass



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				1.358 MHz	1.5 MHz	Pass

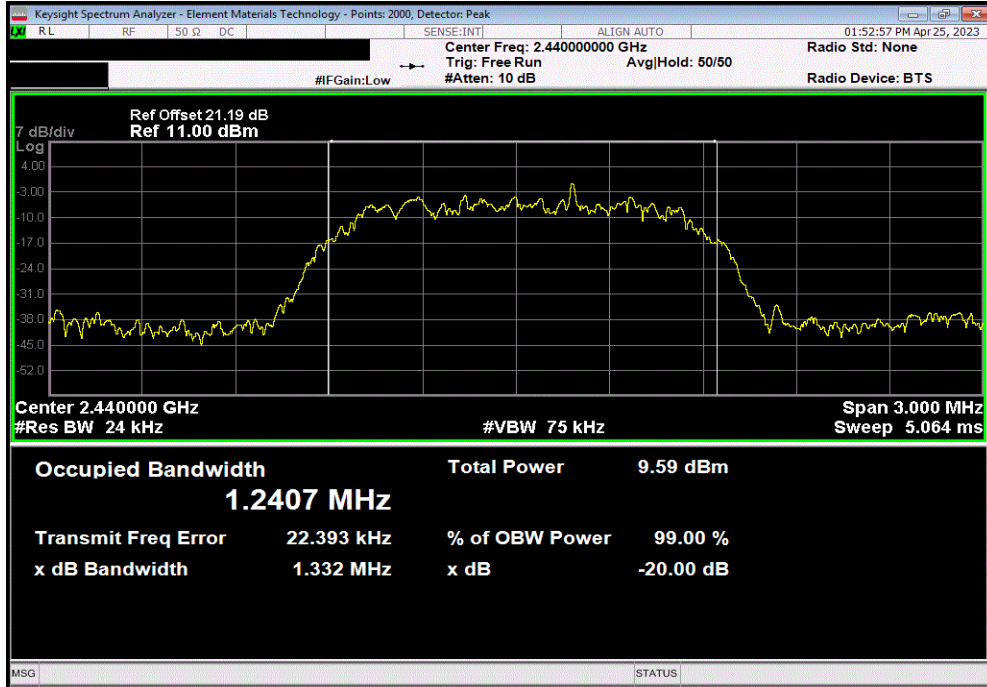


EMISSIONS BANDWIDTH

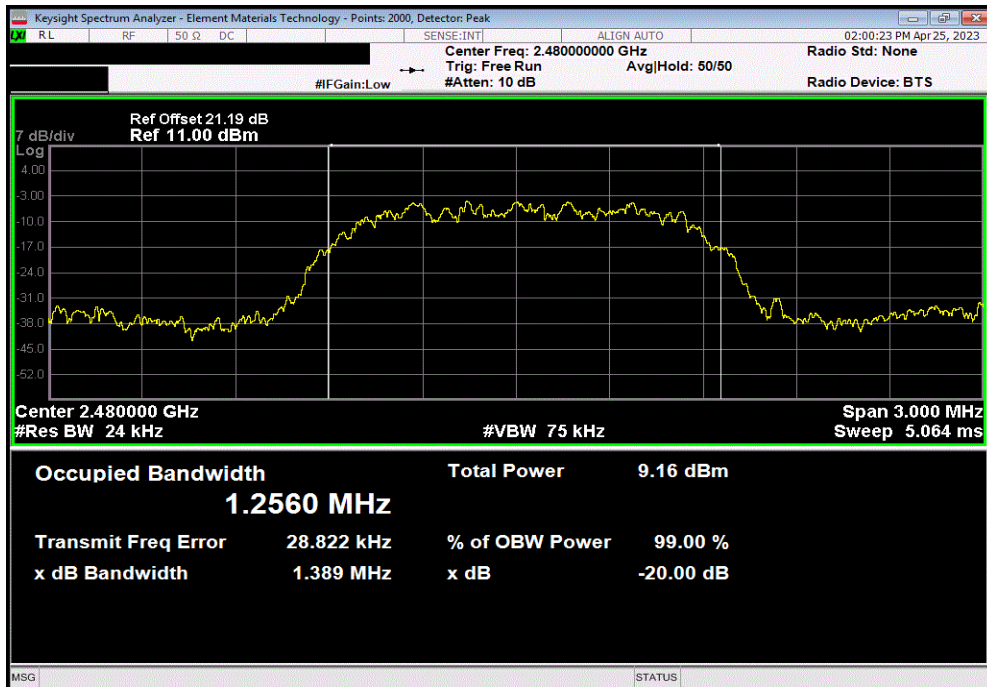


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				1.332 MHz	1.5 MHz	Pass



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				1.389 MHz	1.5 MHz	Pass

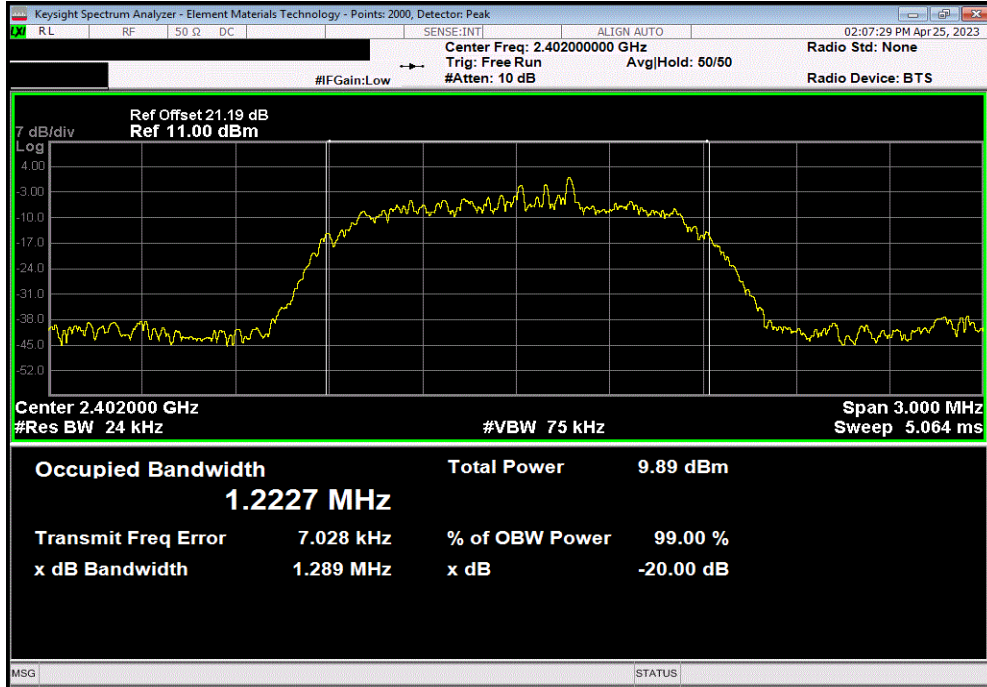


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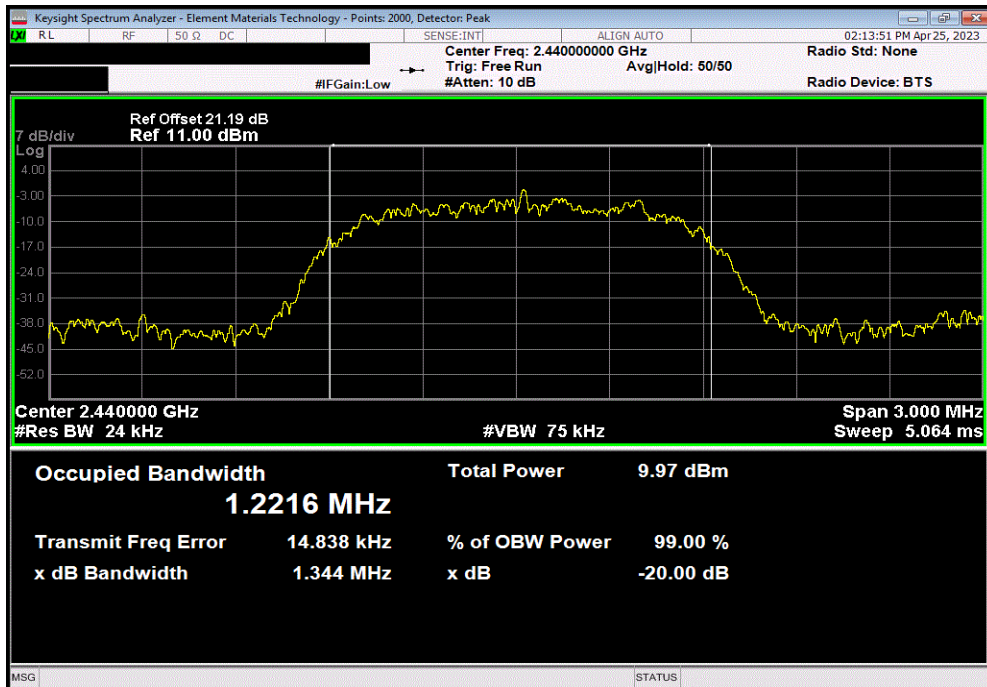


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				1.289 MHz	1.5 MHz	Pass



3DH5, 8-DPSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				1.344 MHz	1.5 MHz	Pass

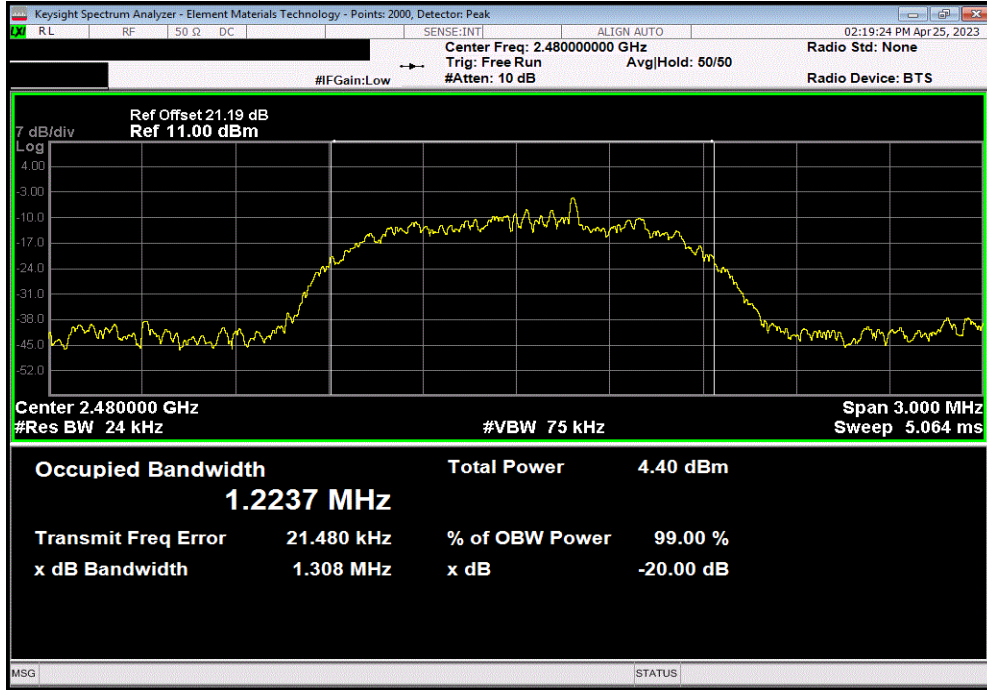


EMISSIONS BANDWIDTH



TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, High Channel, 2480 MHz		
Value	Limit	Result
1.308 MHz	(<) 1.5 MHz	Pass





XMI 2023.02.14.0

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

TEST DESCRIPTION

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

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

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

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

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

SPURIOUS CONDUCTED EMISSIONS



TelTx 2022.06.03.0 XMt 2023.02.14.0

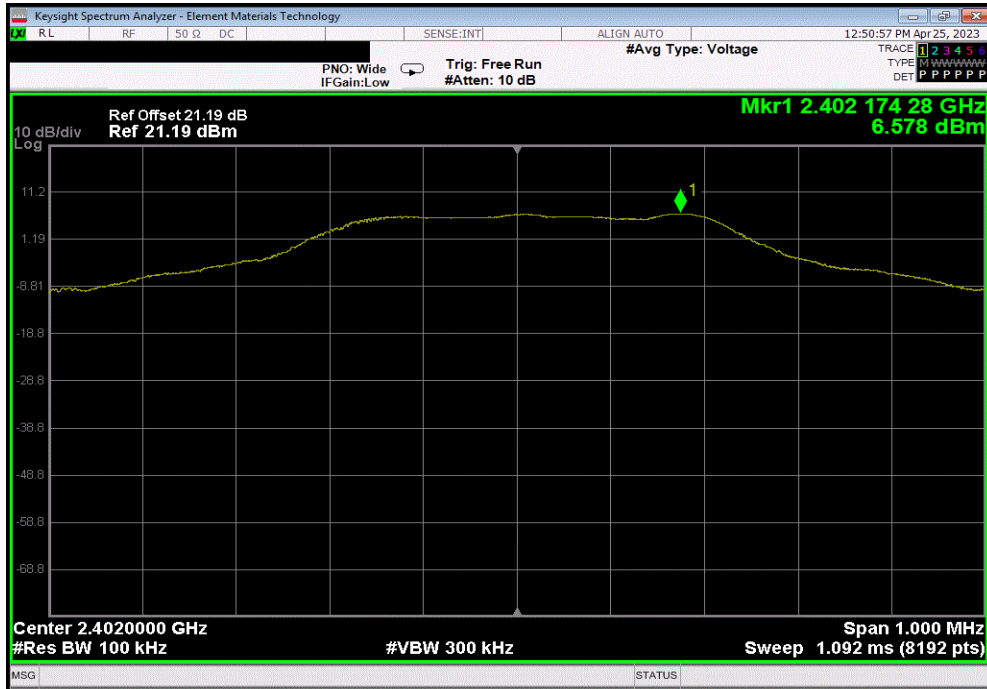
EUT: V700		Work Order: WTVD0085	
Serial Number: BWL7-000968		Date: 04/25/2023	
Customer: Motorola Solutions, Inc.		Temperature: 22.4°C	
Attendees: Navaid Karimi		Humidity: 39.9%	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin		Power: 4.2VDC via Battery	
		Job Site: TX07	
TEST SPECIFICATIONS			
FCC 15.247:2023		Test Method	
RSS-247 Issue 2:2017		ANSI C63.10:2013	
		ANSI C63.10:2013	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters, and DC blocks.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	WTVD0085-1	Signature <i>Marty Martin</i>	
		Frequency Range	Measured Freq (MHz)
			Max Value (dBc)
			Limit ≤ (dBc)
			Result
DH5, GFSK			
	Low Channel, 2402 MHz	Fundamental	2402.17
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	3874.07
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23679.95
	Mid Channel, 2440 MHz	Fundamental	2440.18
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	3874.07
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	24149.98
	High Channel, 2480 MHz	Fundamental	2480.01
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	3758.36
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24560.49
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	Fundamental	2401.85
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	3706.6
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	24134.72
	Mid Channel, 2440 MHz	Fundamental	2439.86
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	11020.22
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	23969.91
	High Channel, 2480 MHz	Fundamental	2479.86
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	3808.6
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24572.7
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	Fundamental	2402.17
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	3855.8
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23921.07
	Mid Channel, 2440 MHz	Fundamental	2440.18
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	3848.19
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	24189.66
	High Channel, 2480 MHz	Fundamental	2480.19
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	3778.16
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24095.04

SPURIOUS CONDUCTED EMISSIONS

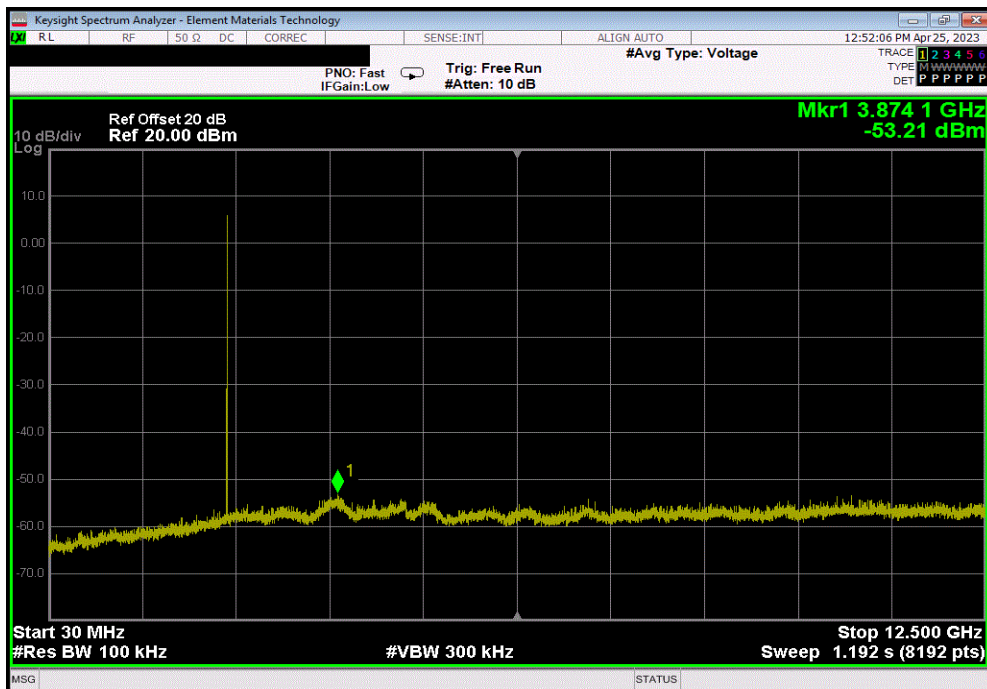


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2402.17	N/A	N/A	N/A	



DH5, GFSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3874.07	-59.79	-20	Pass	

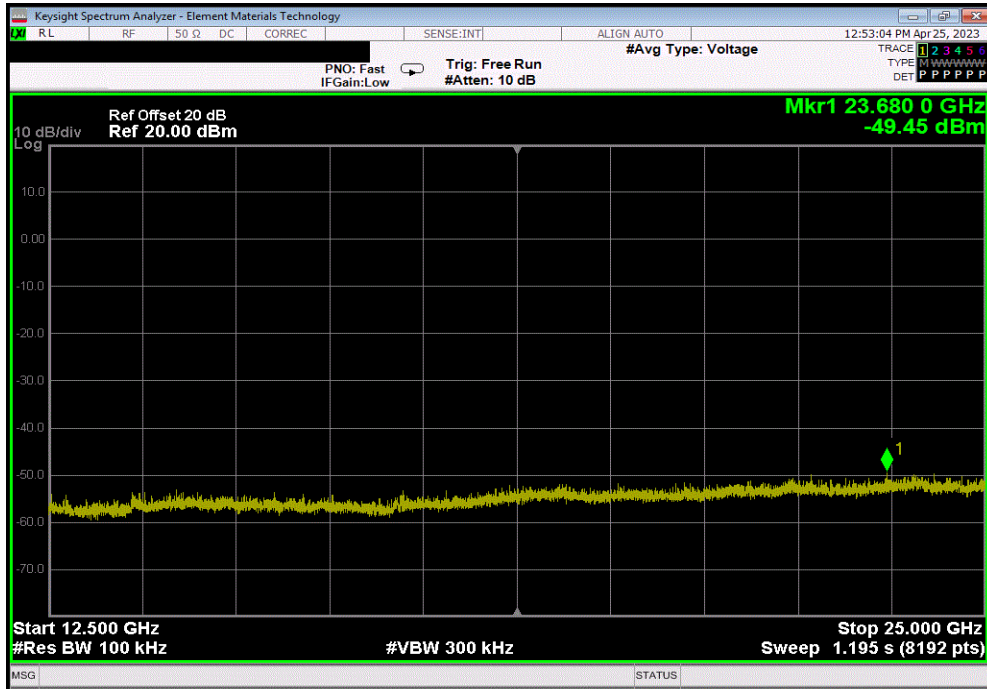


SPURIOUS CONDUCTED EMISSIONS

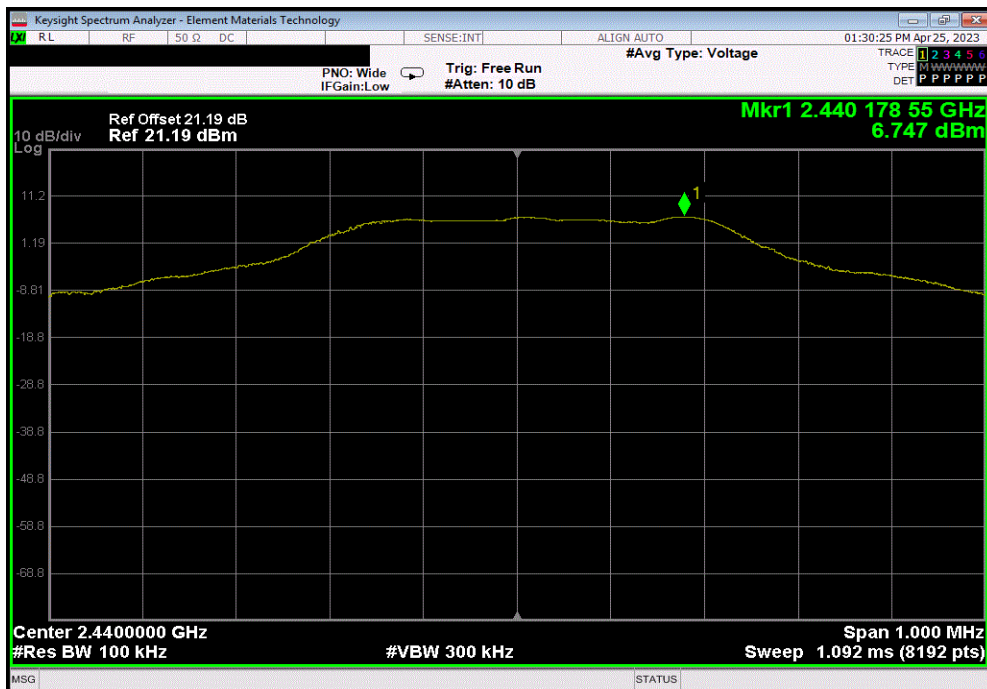


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23679.95	-56.03	-20	Pass	



DH5, GFSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2440.18	N/A	N/A	N/A	

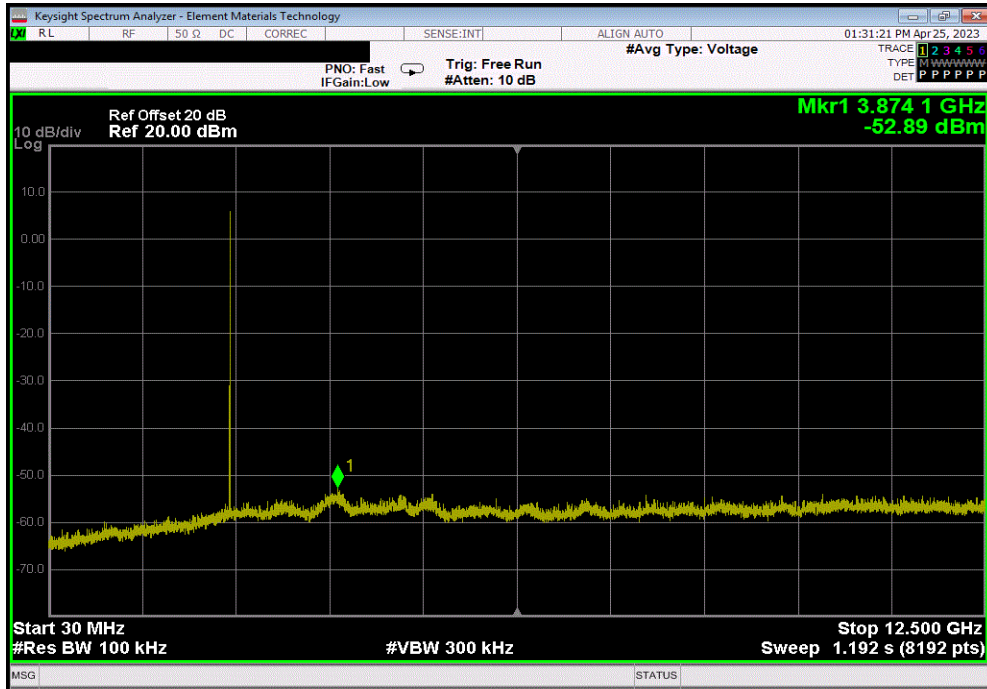


SPURIOUS CONDUCTED EMISSIONS

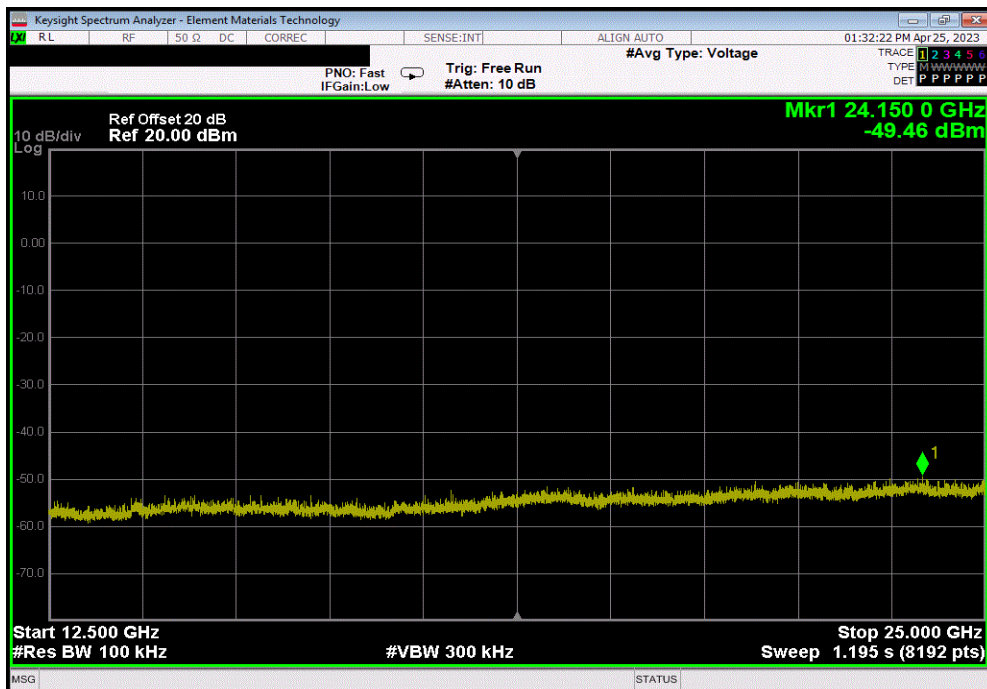


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3874.07	-59.64	-20	Pass	



DH5, GFSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24149.98	-56.21	-20	Pass	

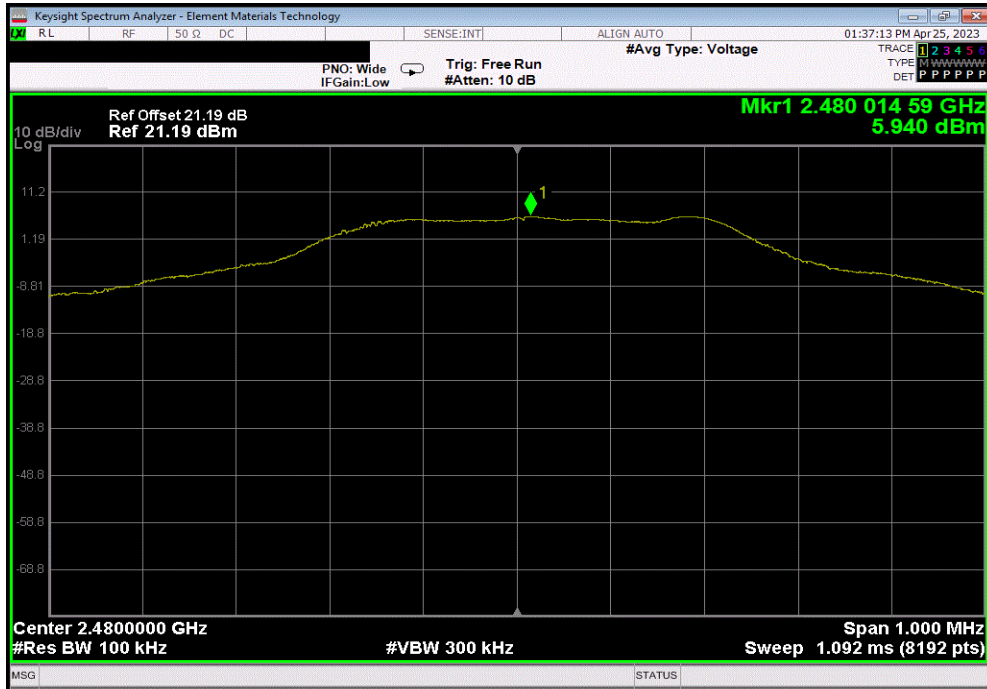


SPURIOUS CONDUCTED EMISSIONS

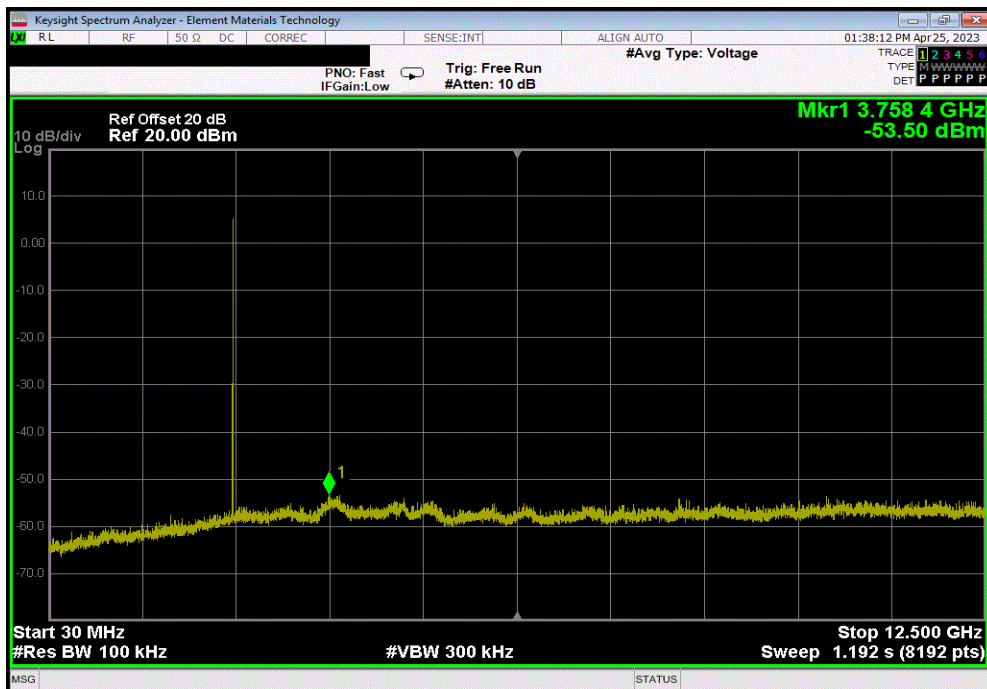


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2480.01	N/A	N/A	N/A	



DH5, GFSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3758.36	-59.44	-20	Pass	

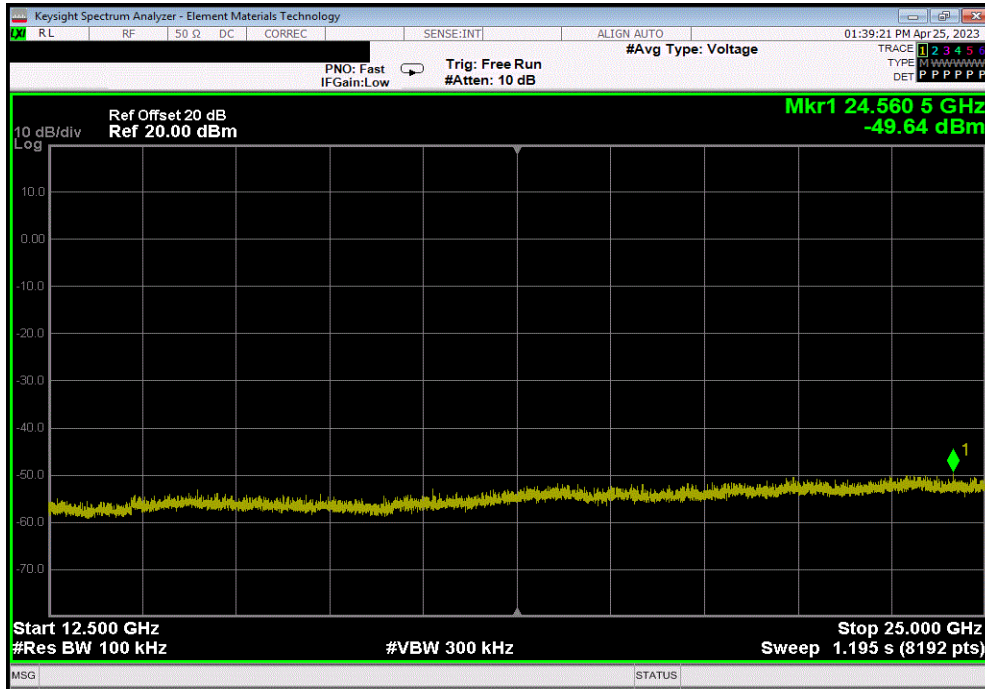


SPURIOUS CONDUCTED EMISSIONS

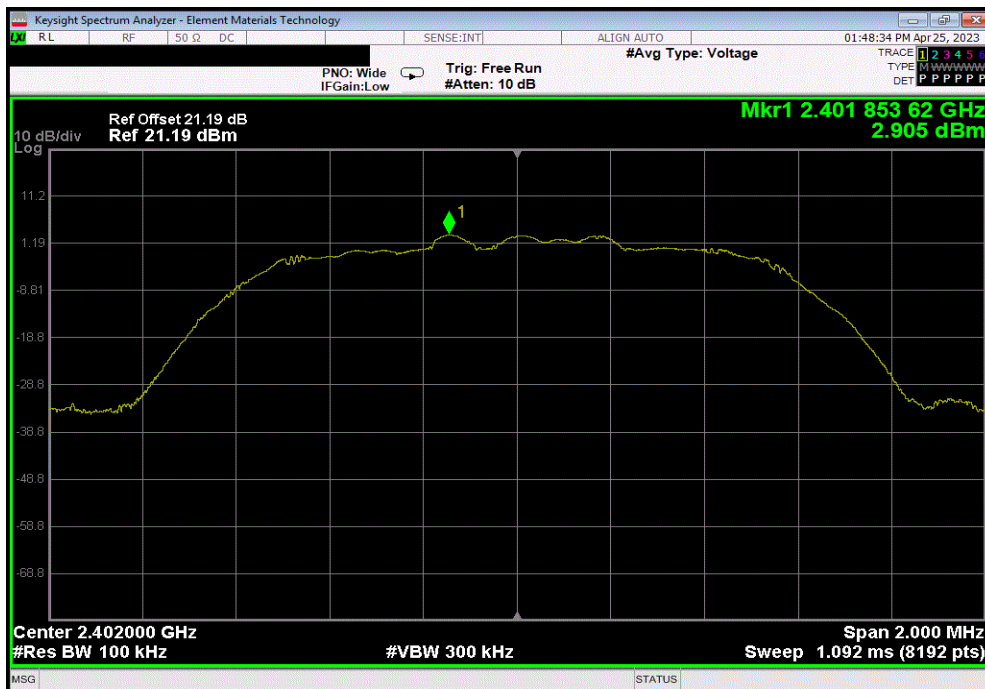


TbTx 2022.06.03.0 XMI 2023.02.14.0

DH5, GFSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24560.49	-55.58	-20	Pass	



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2401.85	N/A	N/A	N/A	

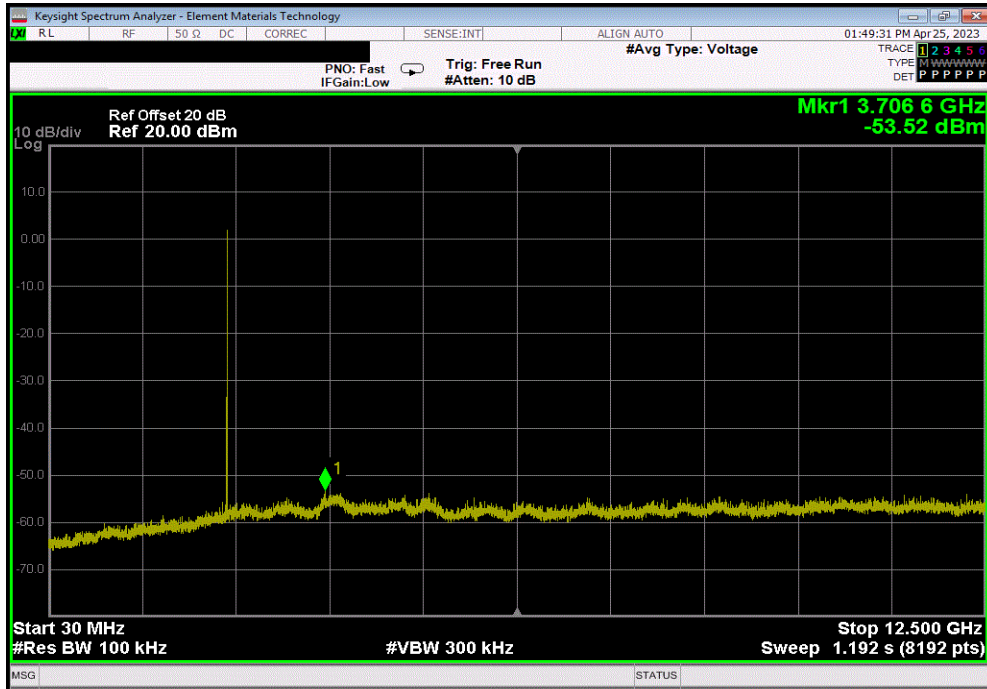


SPURIOUS CONDUCTED EMISSIONS

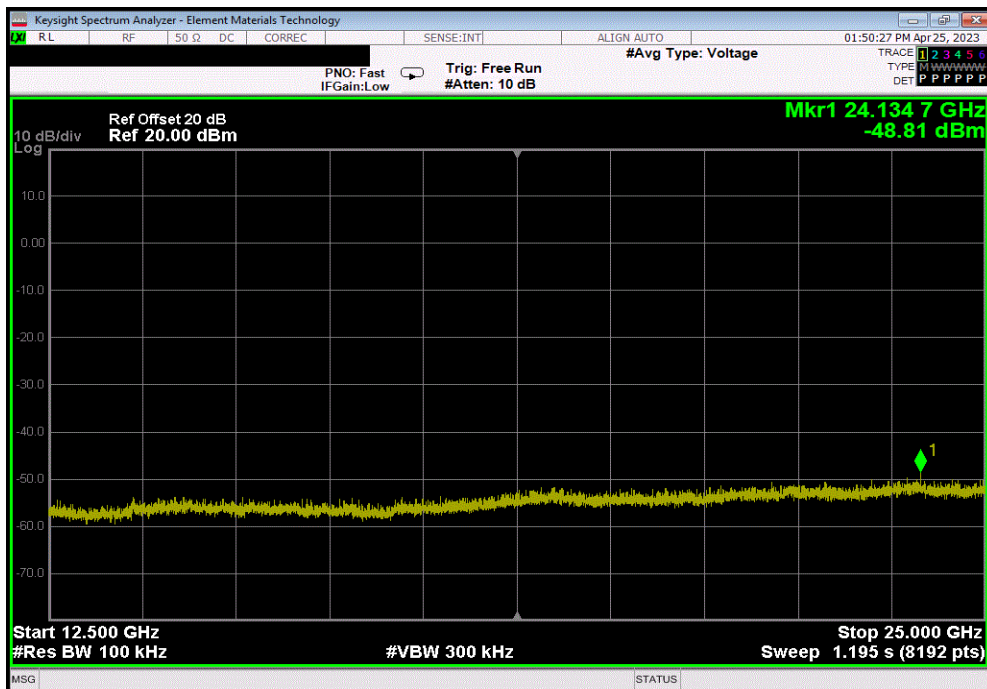


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3706.6	-56.43	-20	Pass



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24134.72	-51.72	-20	Pass

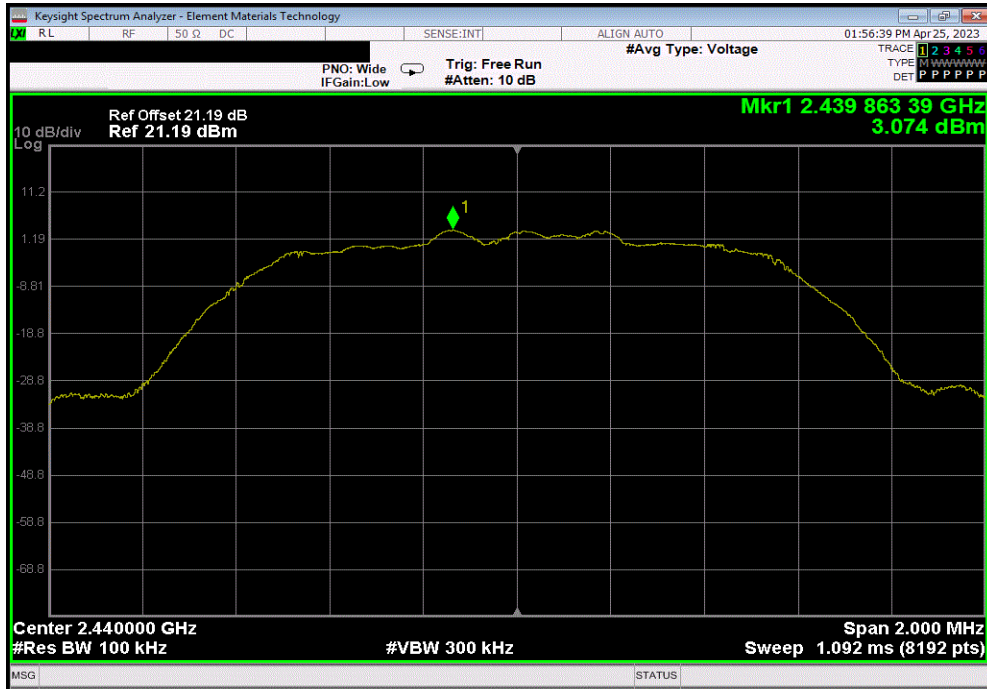


SPURIOUS CONDUCTED EMISSIONS

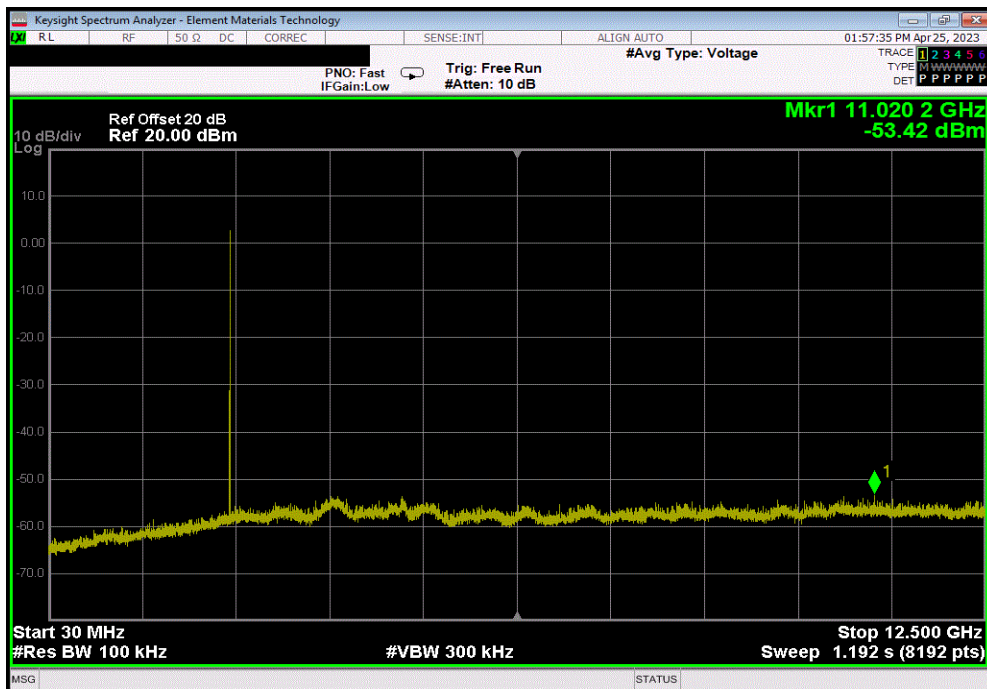


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2439.86	N/A	N/A	N/A	



2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	11020.22	-56.49	-20	Pass	

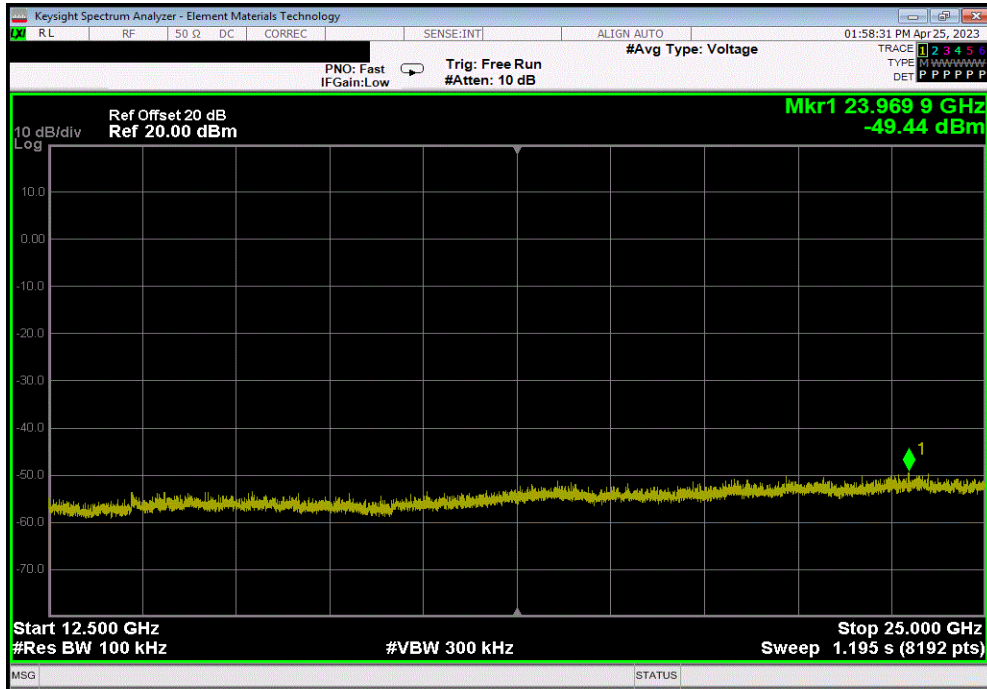


SPURIOUS CONDUCTED EMISSIONS

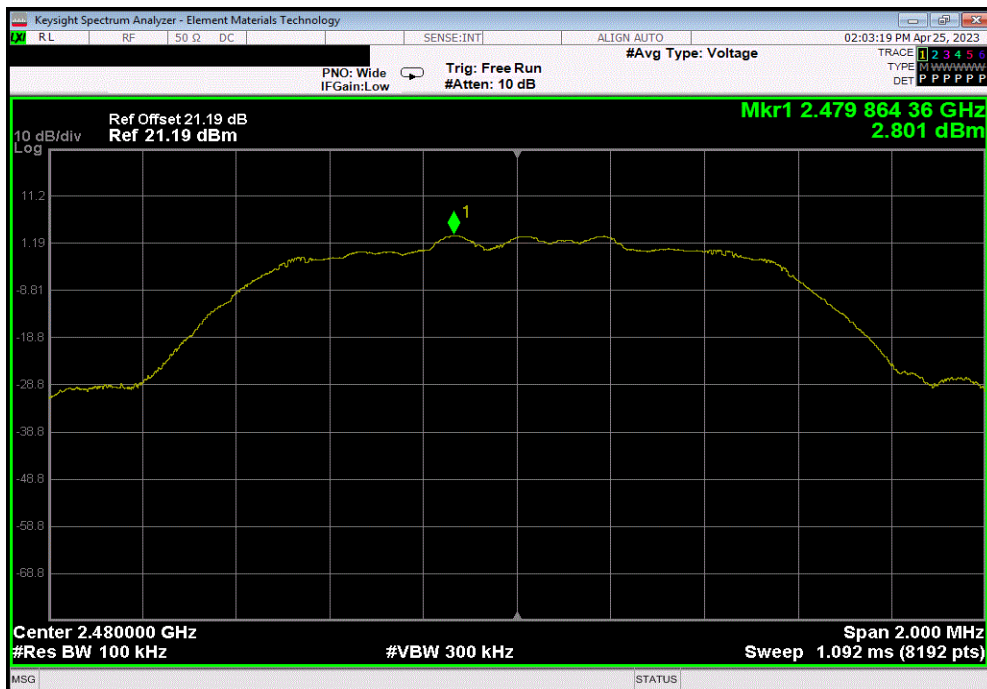


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23969.91	-52.51	-20	Pass	



2DH5, pi/4-DQPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2479.86	N/A	N/A	N/A	

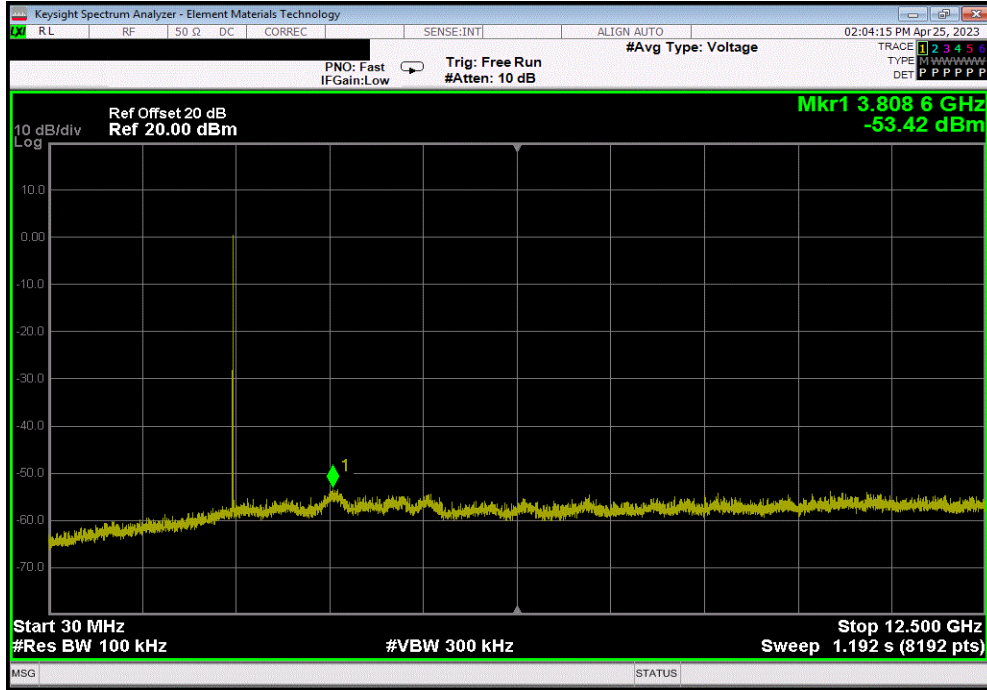


SPURIOUS CONDUCTED EMISSIONS

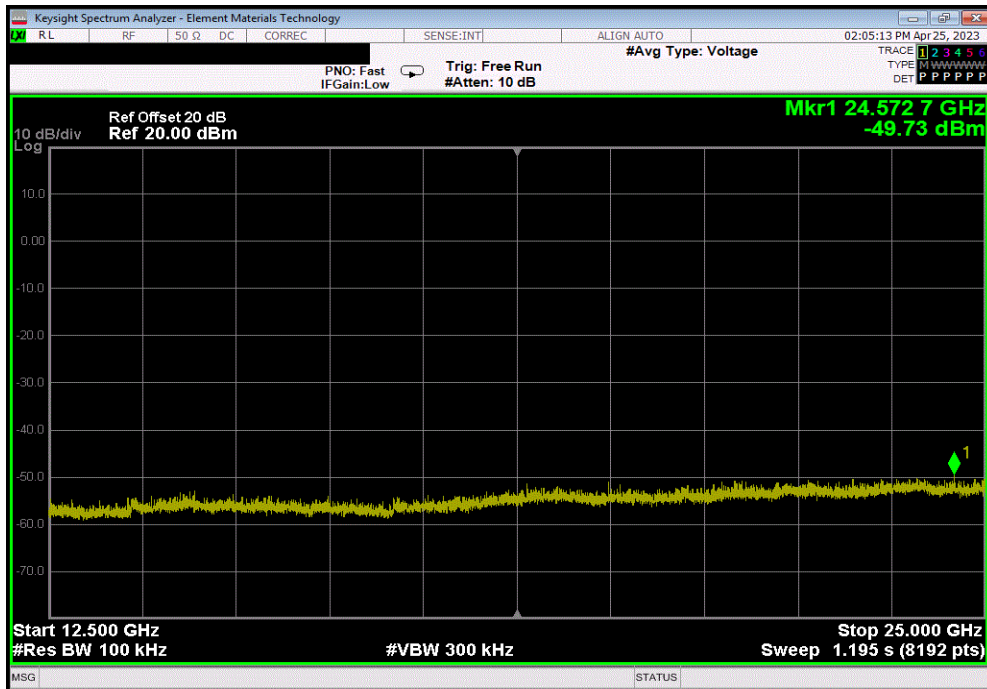


TbTx 2022.06.03.0 XMI 2023.02.14.0

2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3808.6	-56.22	-20	Pass



2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24572.7	-52.53	-20	Pass

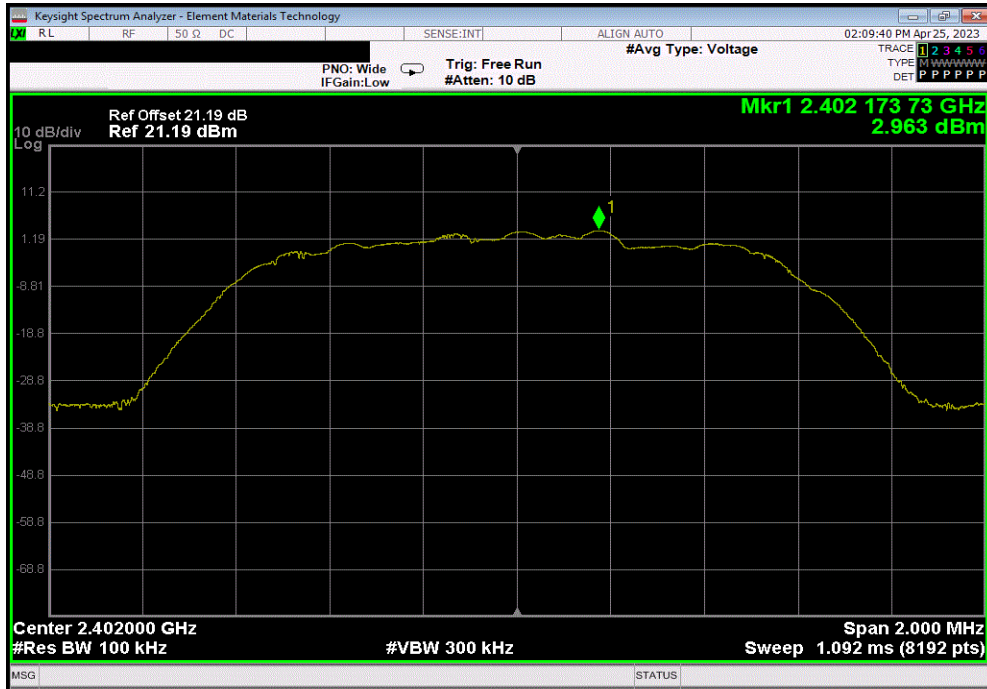


SPURIOUS CONDUCTED EMISSIONS

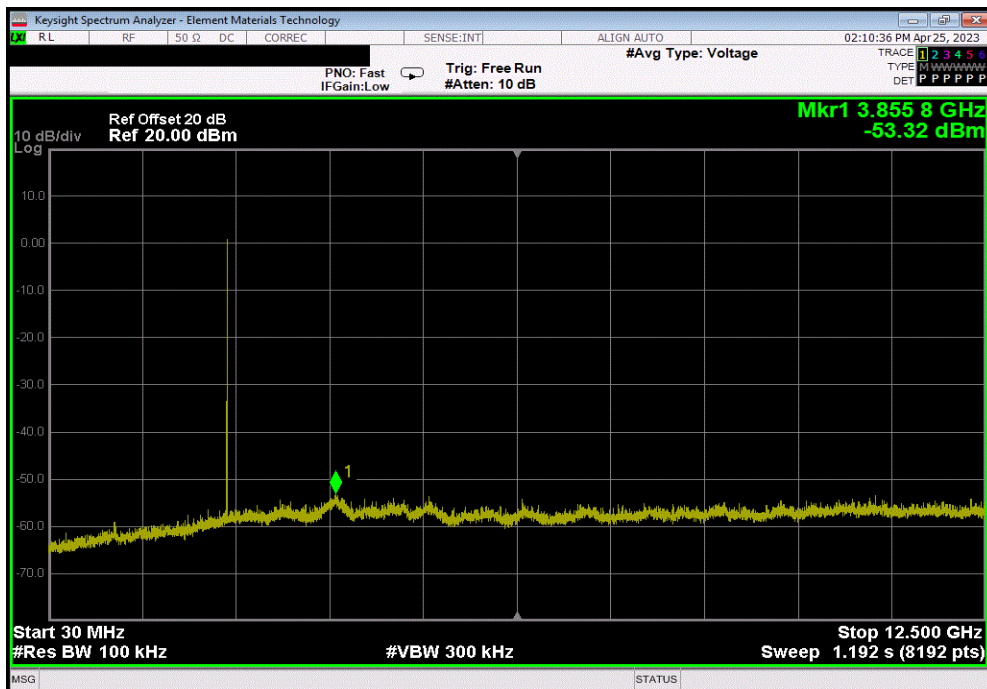


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2402.17	N/A	N/A	N/A	



3DH5, 8-DPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3855.8	-56.28	-20	Pass	

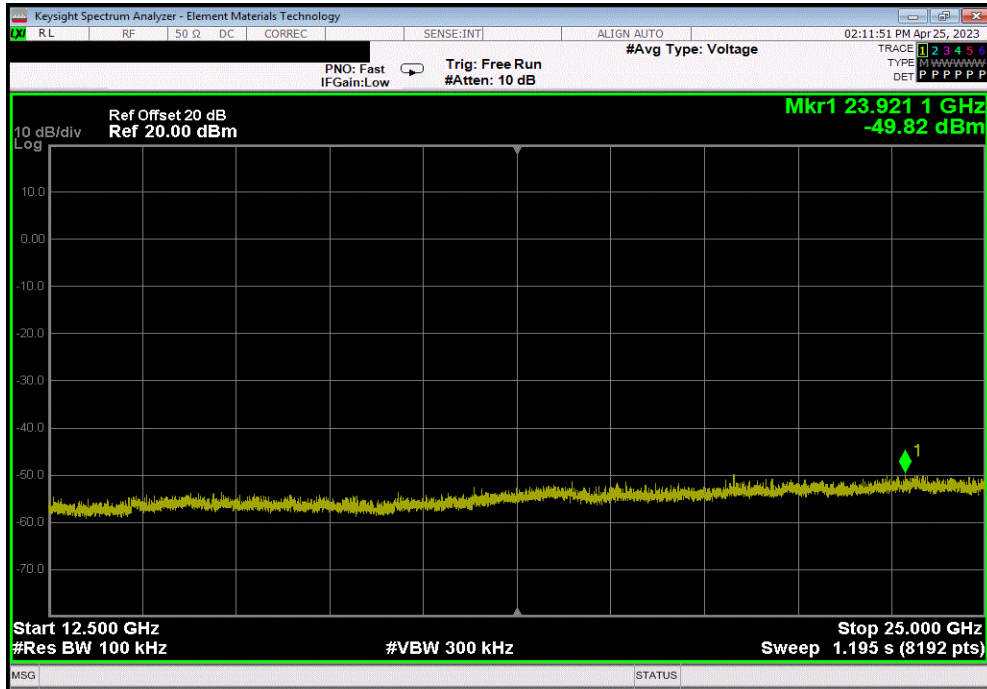


SPURIOUS CONDUCTED EMISSIONS

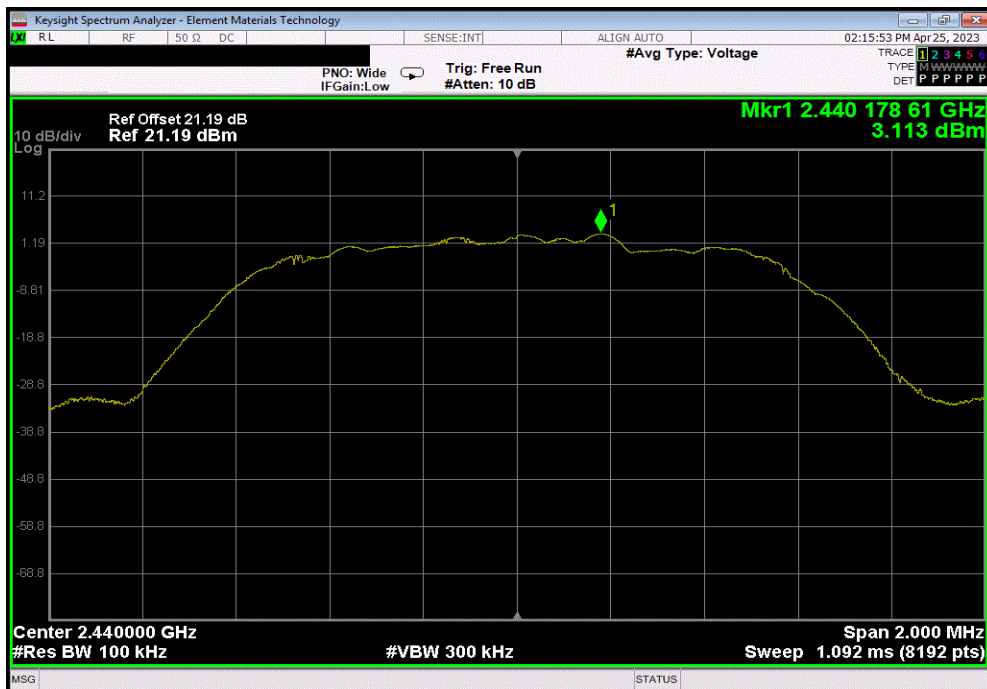


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23921.07	-52.78	-20	Pass	



3DH5, 8-DPSK, Mid Channel, 2440 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2440.18	N/A	N/A	N/A	

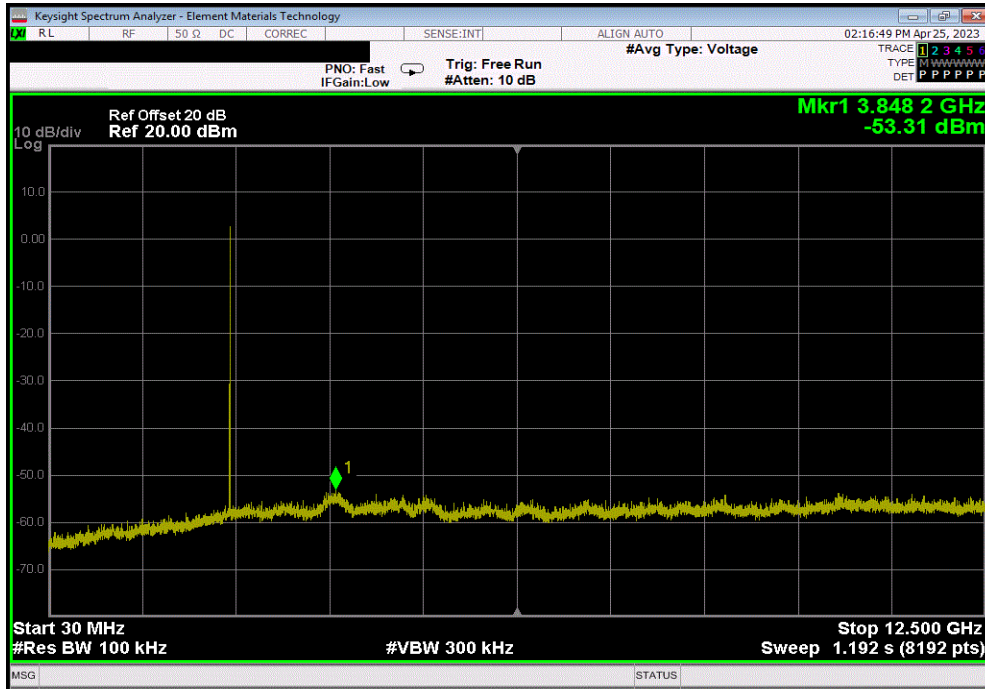


SPURIOUS CONDUCTED EMISSIONS

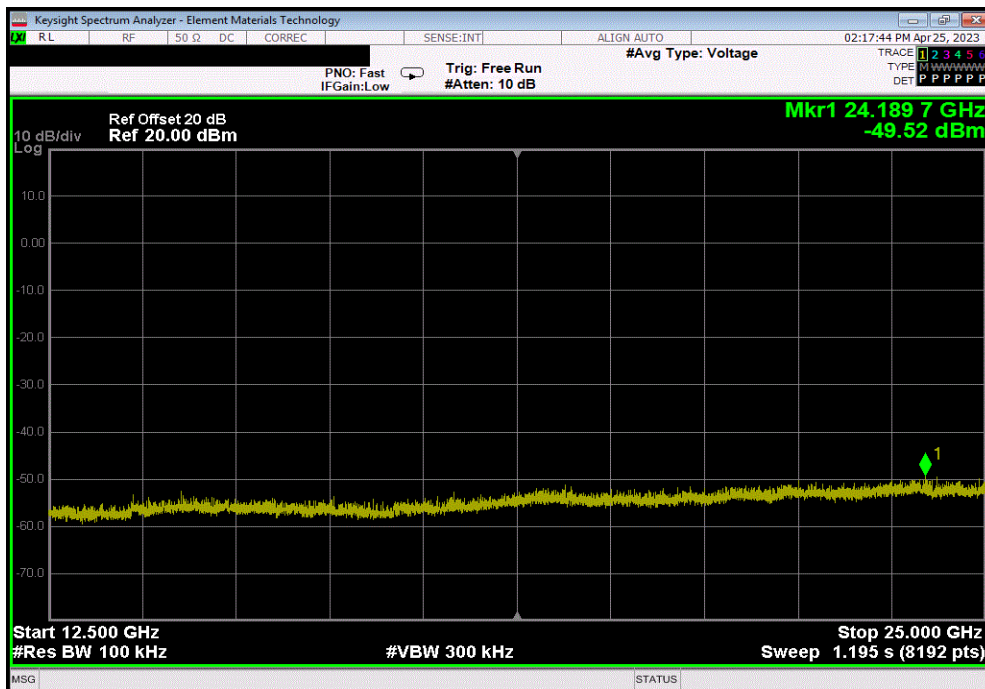


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, Mid Channel, 2440 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3848.19	-56.42	-20	Pass



3DH5, 8-DPSK, Mid Channel, 2440 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24189.66	-52.63	-20	Pass

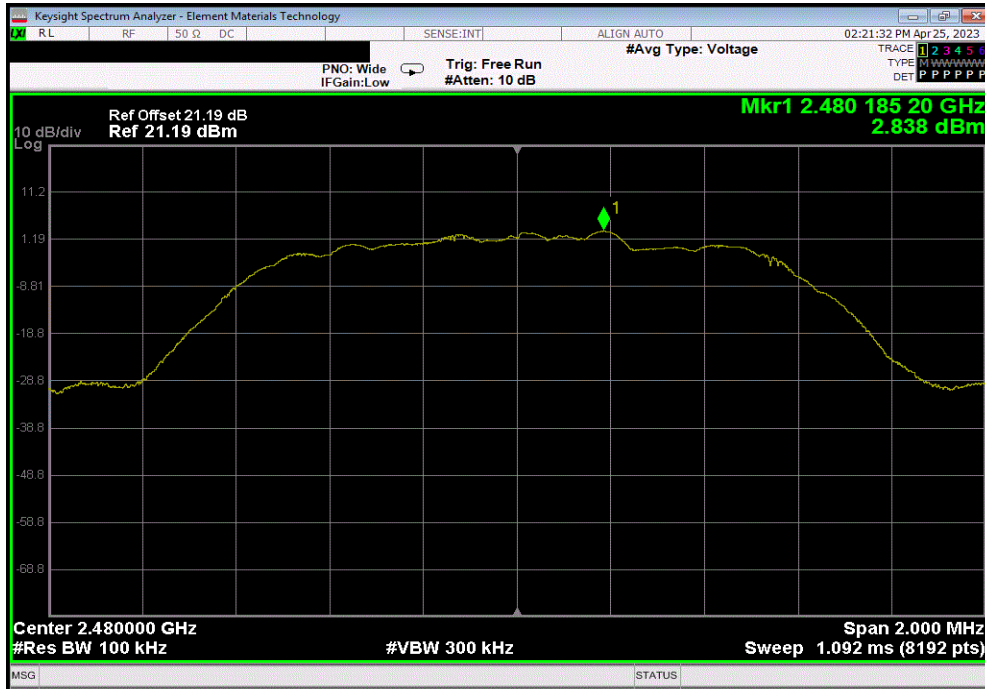


SPURIOUS CONDUCTED EMISSIONS

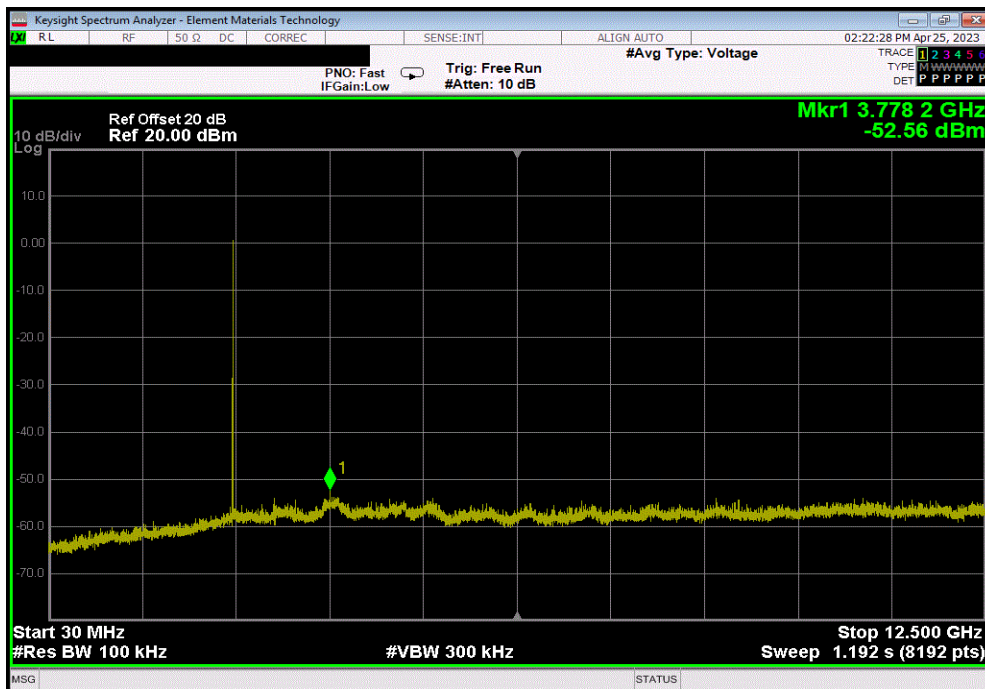


TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2480.19	N/A	N/A	N/A	



3DH5, 8-DPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3778.16	-55.4	-20	Pass	

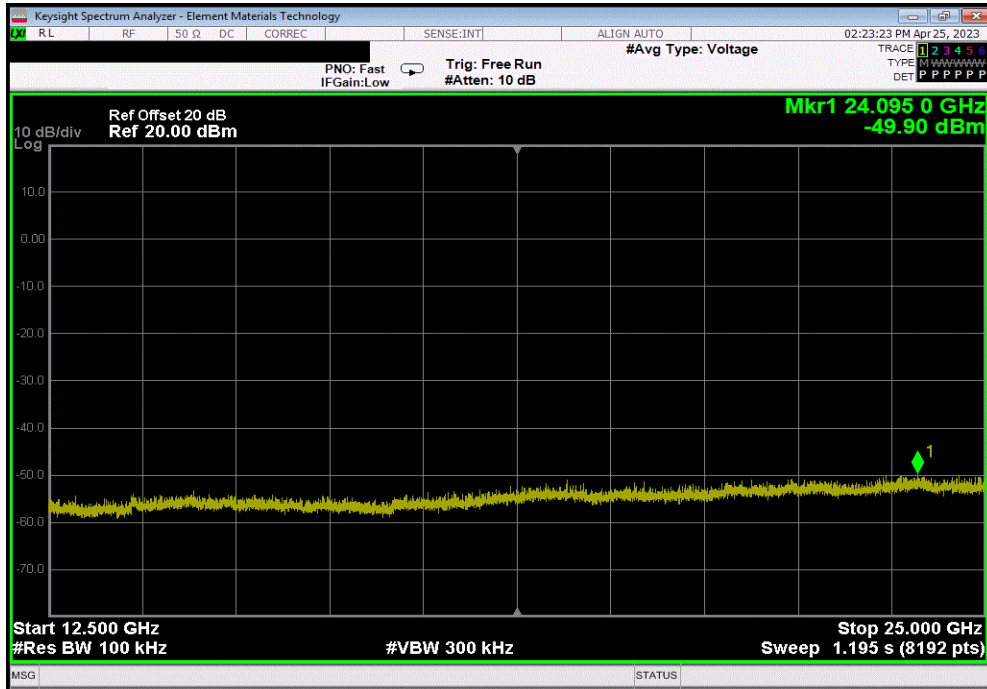


SPURIOUS CONDUCTED EMISSIONS



TbTx 2022.06.03.0 XMI 2023.02.14.0

3DH5, 8-DPSK, High Channel, 2480 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24095.04	-52.74	-20	Pass



SPURIOUS RADIATED EMISSIONS



TEST DESCRIPTION

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

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

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

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

TEST EQUIPMENT

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

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	5.1 dB	-5.1 dB

FREQUENCY RANGE INVESTIGATED

30 MHz TO 40000 MHz

SPURIOUS RADIATED EMISSIONS



POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

WTVD0086-1

MODES INVESTIGATED

Transmitting at Low Channel (2402 MHz), Mid Channel (2440 MHz) and High Channel (2480 Mhz).

SPURIOUS RADIATED EMISSIONS



EUT:	V700	Work Order:	WTVD0086
Serial Number:	BWL7-000539	Date:	2022-12-22
Customer:	Motorola Solutions Inc.	Temperature:	22.2°C
Attendees:	Navaid Karimi	Relative Humidity:	27%
Customer Project:	None	Bar. Pressure (PMSL):	1026 mb
Tested By:	Marty Martin	Job Site:	TX02
Power:	Battery	Configuration:	WTVD0086-1

TEST SPECIFICATIONS

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

TEST PARAMETERS

Run #:	34	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

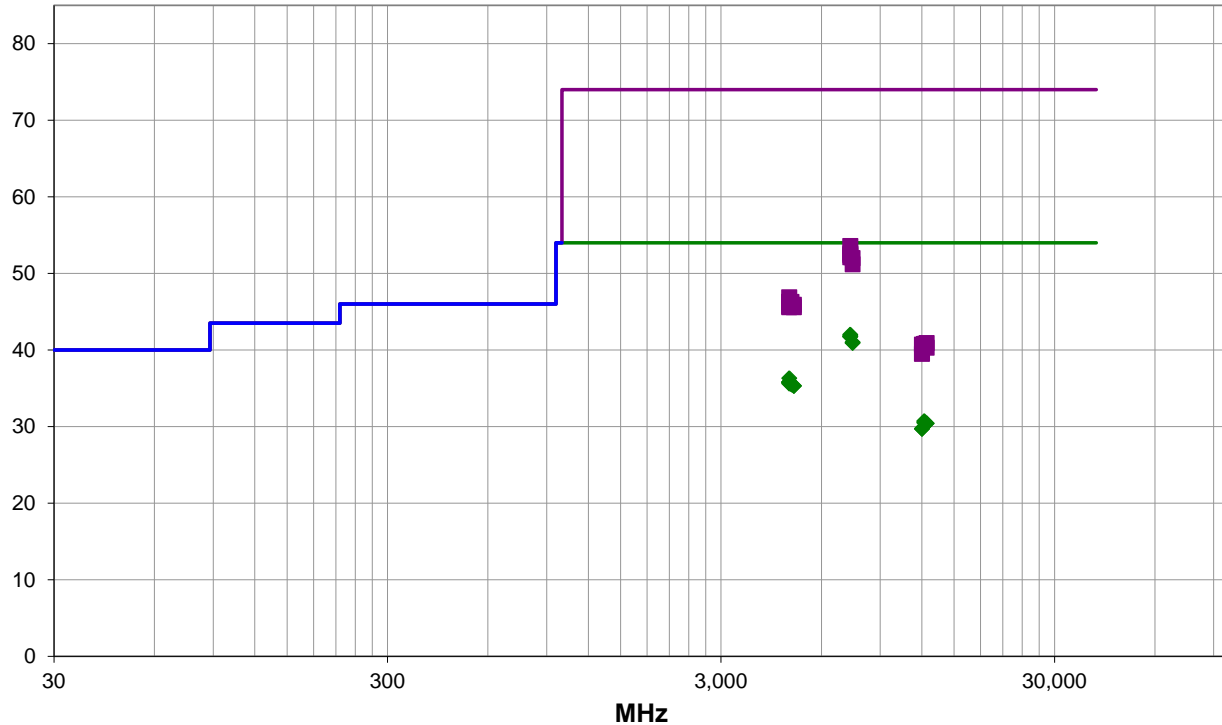
EUT fully operational and Transmitting, see table for details.

EUT OPERATING MODES

Transmitting at Low Channel (2402 MHz), Mid Channel (2440 MHz) and High Channel (2480 Mhz).

DEVIATIONS FROM TEST STANDARD

None



Run #: 34

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS



RESULTS - Run #34

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
7319.975	29.6	11.3	1.5	163.0	1.1	0.0	Horz	AV	0.0	42.0	54.0	-12.0	Mid Ch, EUT Horz, 2DH5
7319.858	29.4	11.3	3.7	274.9	1.1	0.0	Horz	AV	0.0	41.8	54.0	-12.2	Mid Ch, EUT Horz, DH5
7320.230	29.4	11.3	1.5	163.0	1.1	0.0	Horz	AV	0.0	41.8	54.0	-12.2	Mid Ch, EUT Horz, 3DH5
7319.872	29.3	11.3	1.5	345.0	1.1	0.0	Vert	AV	0.0	41.7	54.0	-12.3	Mid Ch, EUT Horz, DH5
7440.222	28.5	11.4	2.1	294.0	1.1	0.0	Vert	AV	0.0	41.0	54.0	-13.0	High Ch, EUT Horz, DH5
7440.413	28.4	11.4	3.1	344.0	1.1	0.0	Horz	AV	0.0	40.9	54.0	-13.1	High Ch, EUT Horz, DH5
4804.128	30.1	5.1	1.5	325.0	1.1	0.0	Horz	AV	0.0	36.3	54.0	-17.7	Low Ch, EUT Vert, DH5
4803.810	29.6	5.1	1.3	237.9	1.1	0.0	Vert	AV	0.0	35.8	54.0	-18.2	Low Ch, EUT Vert, DH5
4803.980	29.6	5.1	1.5	78.0	1.1	0.0	Vert	AV	0.0	35.8	54.0	-18.2	Low Ch, EUT Horz, DH5
4803.620	29.6	5.1	2.1	81.9	1.1	0.0	Horz	AV	0.0	35.8	54.0	-18.2	Low Ch, EUT on Side, DH5
4804.318	29.5	5.1	1.5	360.0	1.1	0.0	Horz	AV	0.0	35.7	54.0	-18.3	Low Ch, EUT Horz, DH5
4803.513	29.4	5.1	1.5	219.9	1.1	0.0	Vert	AV	0.0	35.6	54.0	-18.4	Low Ch, EUT on Side, DH5
4879.805	29.4	5.0	1.5	279.0	1.1	0.0	Horz	AV	0.0	35.5	54.0	-18.5	Mid Ch, EUT Horz, DH5
4879.800	29.4	5.0	1.5	261.0	1.1	0.0	Vert	AV	0.0	35.5	54.0	-18.5	Mid Ch, EUT Horz, DH5
4960.143	29.3	4.9	1.5	174.0	1.1	0.0	Horz	AV	0.0	35.3	54.0	-18.7	High Ch, EUT Horz, DH5
4959.618	29.3	4.9	1.5	292.9	1.1	0.0	Vert	AV	0.0	35.3	54.0	-18.7	High Ch, EUT Horz, DH5
7319.653	42.3	11.3	1.5	163.0	0.0	0.0	Horz	PK	0.0	53.6	74.0	-20.4	Mid Ch, EUT Horz, 2DH5
7319.958	41.3	11.3	3.7	274.9	0.0	0.0	Horz	PK	0.0	52.6	74.0	-21.4	Mid Ch, EUT Horz, DH5
7319.825	41.1	11.3	1.5	345.0	0.0	0.0	Vert	PK	0.0	52.4	74.0	-21.6	Mid Ch, EUT Horz, DH5
7319.965	40.8	11.3	1.5	163.0	0.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	Mid Ch, EUT Horz, 3DH5
7439.783	40.6	11.4	3.1	344.0	0.0	0.0	Horz	PK	0.0	52.0	74.0	-22.0	High Ch, EUT Horz, DH5
7439.718	39.8	11.4	2.1	294.0	0.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	High Ch, EUT Horz, DH5
12200.180	32.8	-3.2	1.5	42.0	1.1	0.0	Horz	AV	0.0	30.7	54.0	-23.3	Mid Ch, EUT Horz, DH5
12199.830	32.7	-3.3	2.3	103.0	1.1	0.0	Vert	AV	0.0	30.5	54.0	-23.5	Mid Ch, EUT Horz, DH5
12399.880	32.0	-2.7	1.5	177.0	1.1	0.0	Horz	AV	0.0	30.4	54.0	-23.6	High Ch, EUT Horz, DH5
12399.910	32.0	-2.7	1.5	176.0	1.1	0.0	Vert	AV	0.0	30.4	54.0	-23.6	High Ch, EUT Horz, DH5
12010.140	33.0	-4.4	1.5	62.0	1.1	0.0	Horz	AV	0.0	29.7	54.0	-24.3	Low Ch, EUT Horz, DH5
12010.220	33.0	-4.4	1.5	127.0	1.1	0.0	Vert	AV	0.0	29.7	54.0	-24.3	Low Ch, EUT Horz, DH5
4804.140	41.8	5.1	1.5	219.9	0.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	Low Ch, EUT on Side, DH5
4804.097	41.2	5.1	1.5	325.0	0.0	0.0	Horz	PK	0.0	46.3	74.0	-27.7	Low Ch, EUT Vert, DH5
4803.948	41.2	5.1	2.1	81.9	0.0	0.0	Horz	PK	0.0	46.3	74.0	-27.7	Low Ch, EUT on Side, DH5
4880.302	41.3	5.0	1.5	279.0	0.0	0.0	Horz	PK	0.0	46.3	74.0	-27.7	Mid Ch, EUT Horz, DH5
4804.302	41.1	5.1	1.5	360.0	0.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	Low Ch, EUT Horz, DH5
4959.937	41.0	4.9	1.5	292.9	0.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	High Ch, EUT Horz, DH5
4879.998	40.9	5.0	1.5	261.0	0.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	Mid Ch, EUT Horz, DH5
4804.300	40.6	5.1	1.5	78.0	0.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	Low Ch, EUT Horz, DH5
4803.667	40.5	5.1	1.3	237.9	0.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Low Ch, EUT Vert, DH5
4959.860	40.7	4.9	1.5	174.0	0.0	0.0	Horz	PK	0.0	45.6	74.0	-28.4	High Ch, EUT Horz, DH5
12399.540	43.6	-2.7	1.5	177.0	0.0	0.0	Horz	PK	0.0	40.9	74.0	-33.1	High Ch, EUT Horz, DH5
12199.670	44.1	-3.3	1.5	42.0	0.0	0.0	Horz	PK	0.0	40.8	74.0	-33.2	Mid Ch, EUT Horz, DH5

SPURIOUS RADIATED EMISSIONS



Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
12200.020	44.1	-3.3	2.3	103.0	0.0	0.0	Vert	PK	0.0	40.8	74.0	-33.2	Mid Ch, EUT Horz, DH5
12010.420	45.1	-4.4	1.5	127.0	0.0	0.0	Vert	PK	0.0	40.7	74.0	-33.3	Low Ch, EUT Horz, DH5
12399.960	43.0	-2.7	1.5	176.0	0.0	0.0	Vert	PK	0.0	40.3	74.0	-33.7	High Ch, EUT Horz, DH5
12009.560	43.9	-4.4	1.5	62.0	0.0	0.0	Horz	PK	0.0	39.5	74.0	-34.5	Low Ch, EUT Horz, DH5

CONCLUSION

Pass

Tested By

SPURIOUS RADIATED EMISSIONS



EUT:	V700	Work Order:	WTVD0086
Serial Number:	BWL7-000539	Date:	2022-12-22
Customer:	Motorola Solutions Inc.	Temperature:	20.5°C
Attendees:	Navaid Karimi	Relative Humidity:	17.8%
Customer Project:	None	Bar. Pressure (PMSL):	1031 mb
Tested By:	Marty Martin	Job Site:	TX02
Power:	Battery	Configuration:	WTVD0086-1

TEST SPECIFICATIONS

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

TEST PARAMETERS

Run #:	46	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

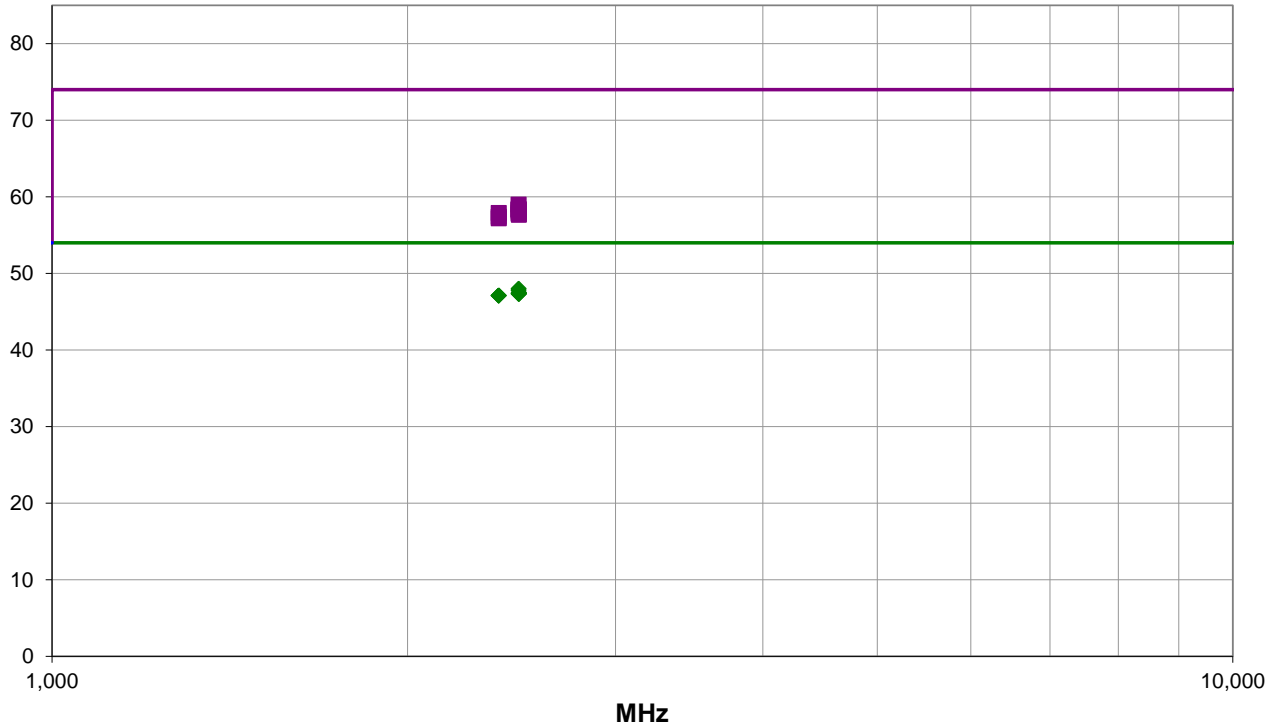
EUT fully operational and Transmitting, see table for BT Classic Band edge details.

EUT OPERATING MODES

Transmitting at Low Channel (2402 MHz), Mid Channel (2440 MHz) and High Channel (2480 Mhz).

DEVIATIONS FROM TEST STANDARD

None



Run #: 46

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS



RESULTS - Run #46

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dBC)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2483.963	33.0	-6.1	1.5	123.9	1.1	20.0	Horz	AV	0.0	48.0	54.0	-6.0	High Ch, EUT Vert, DH5
2483.563	32.8	-6.1	4.0	207.0	1.1	20.0	Vert	AV	0.0	47.8	54.0	-6.2	High Ch, EUT Vert, DH5
2485.087	32.5	-6.1	1.5	79.0	1.1	20.0	Horz	AV	0.0	47.5	54.0	-6.5	High Ch, EUT Horz, DH5
2483.943	32.4	-6.1	1.5	62.0	1.1	20.0	Vert	AV	0.0	47.4	54.0	-6.6	High Ch, EUT Horz, DH5
2484.057	32.4	-6.1	1.5	9.9	1.1	20.0	Horz	AV	0.0	47.4	54.0	-6.6	High Ch, EUT on Side, DH5
2485.380	32.4	-6.1	1.5	123.9	1.1	20.0	Horz	AV	0.0	47.4	54.0	-6.6	High Ch, EUT Vert, 3DH5
2484.807	32.3	-6.1	1.1	301.0	1.1	20.0	Vert	AV	0.0	47.3	54.0	-6.7	High Ch, EUT on Side, DH5
2484.777	32.3	-6.1	1.5	123.9	1.1	20.0	Horz	AV	0.0	47.3	54.0	-6.7	High Ch, EUT Vert, 2DH5
2389.053	32.4	-6.4	1.5	123.9	1.1	20.0	Horz	AV	0.0	47.1	54.0	-6.9	Low Ch, EUT Vert, DH5
2388.543	32.4	-6.4	1.5	123.9	1.1	20.0	Horz	AV	0.0	47.1	54.0	-6.9	Low Ch, EUT Vert, 2DH5
2389.340	32.4	-6.4	1.5	123.9	1.1	20.0	Horz	AV	0.0	47.1	54.0	-6.9	Low Ch, EUT Vert, 3DH5
2483.543	45.1	-6.1	1.1	301.0	0.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	High Ch, EUT on Side, DH5
2483.697	44.5	-6.1	1.5	123.9	0.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	High Ch, EUT Vert, 2DH5
2484.490	44.4	-6.1	4.0	207.0	0.0	20.0	Vert	PK	0.0	58.3	74.0	-15.7	High Ch, EUT Vert, DH5
2483.617	44.4	-6.1	1.5	79.0	0.0	20.0	Horz	PK	0.0	58.3	74.0	-15.7	High Ch, EUT Horz, DH5
2484.500	44.2	-6.1	1.5	62.0	0.0	20.0	Vert	PK	0.0	58.1	74.0	-15.9	High Ch, EUT Horz, DH5
2483.807	44.0	-6.1	1.5	123.9	0.0	20.0	Horz	PK	0.0	57.9	74.0	-16.1	High Ch, EUT Vert, 3DH5
2389.650	44.3	-6.4	1.5	123.9	0.0	20.0	Horz	PK	0.0	57.9	74.0	-16.1	Low Ch, EUT Vert, 2DH5
2484.527	43.8	-6.1	1.5	123.9	0.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	High Ch, EUT Vert, DH5
2485.417	43.8	-6.1	1.5	9.9	0.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	High Ch, EUT on Side, DH5
2389.283	43.8	-6.4	1.5	123.9	0.0	20.0	Horz	PK	0.0	57.4	74.0	-16.6	Low Ch, EUT Vert, DH5
2389.173	43.6	-6.4	1.5	123.9	0.0	20.0	Horz	PK	0.0	57.2	74.0	-16.8	Low Ch, EUT Vert, 3DH5

CONCLUSION

Pass

Tested By

End of Test Report