

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



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
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

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

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

The method found in ANSI C63.10:2013 Section 7.8.5 was used for a FHSS radio.

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

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TSTx 2021.10.29.2 XMR 2022.02.07.0

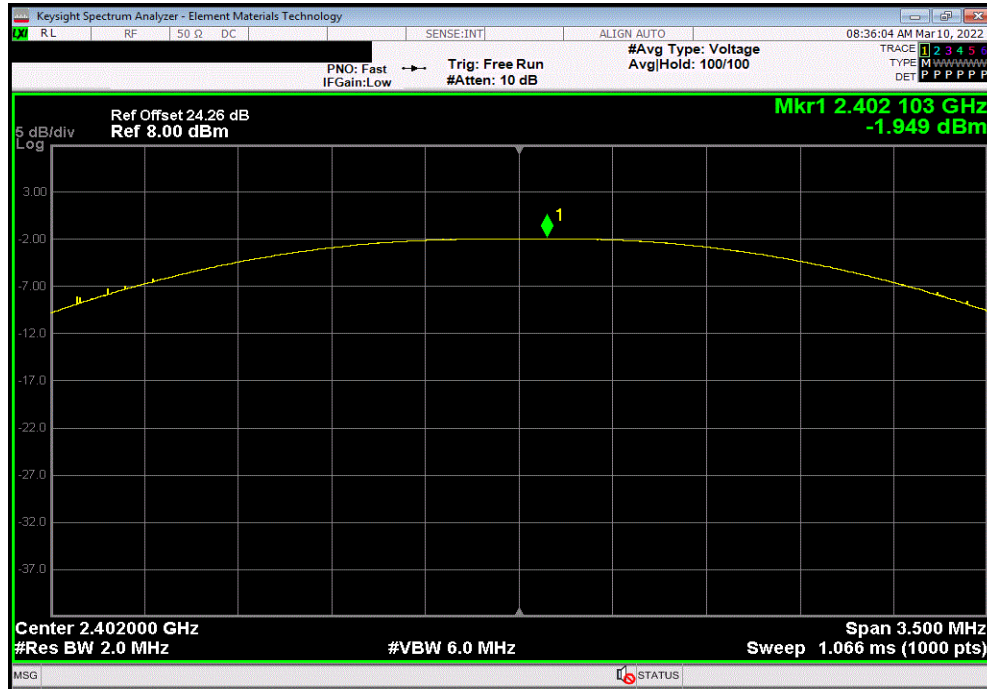
EUT: Sierra		Work Order: LISA0056	
Serial Number: 500042135		Date: 9-Mar-22	
Customer: LightSpeed Aviation		Temperature: 20.7 °C	
Attendees: Ed Katz		Humidity: 37.7% RH	
Project: None		Barometric Pres.: 1025 mbar	
Tested by: Jeff Alcock	Power: Battery	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, measurement cable, and manufacturers SMA patch cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Out Pwr (dBm)	Antenna Gain (dBi)
		EIRP (dBm)	EIRP Limit (dBm)
			Result
DH5, GFSK			
	Low Channel, 2402 MHz	-1.949	4
	Mid Channel, 2441 MHz	-0.9	4
	High Channel, 2480 MHz	0.028	4
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	-0.505	4
	Mid Channel, 2441 MHz	0.808	4
	High Channel, 2480 MHz	1.306	4
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	-0.263	4
	Mid Channel, 2441 MHz	0.969	4
	High Channel, 2480 MHz	1.44	4

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

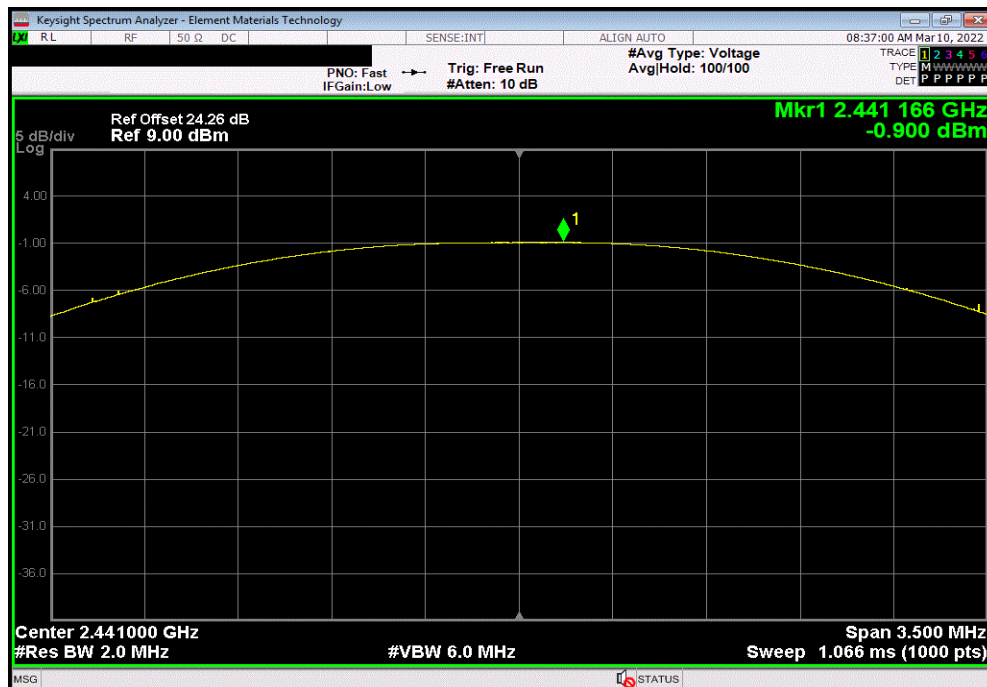


TbTtx 2021.10.29.2 XMt 2022.02.07.0

DH5, GFSK, Low Channel, 2402 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
-1.949	4	2.051	27	Pass		



DH5, GFSK, Mid Channel, 2441 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
-0.9	4	3.1	27	Pass		

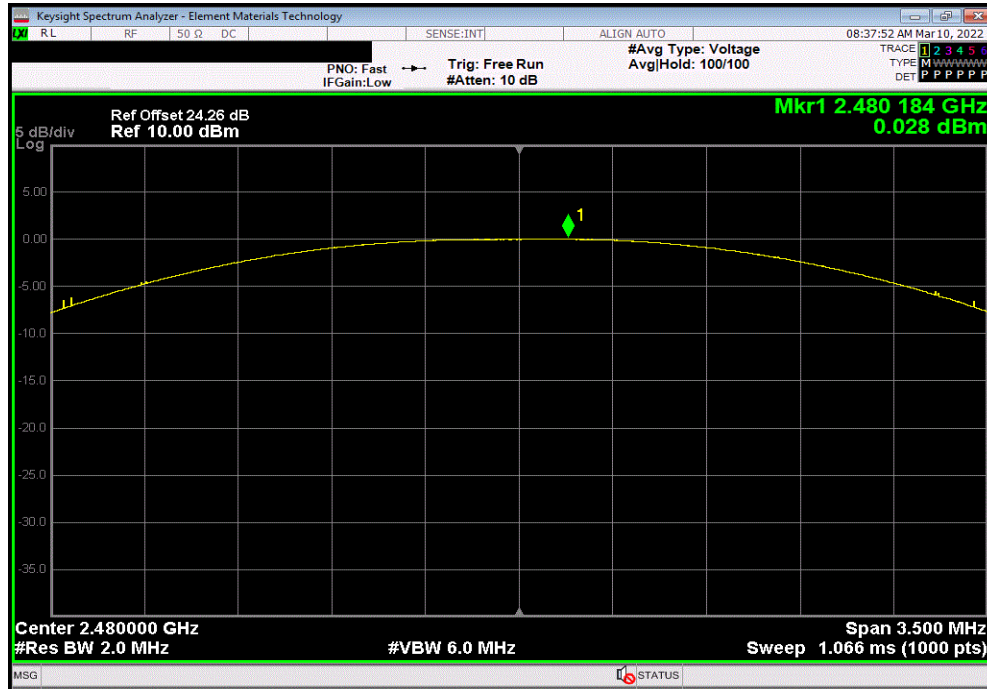


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

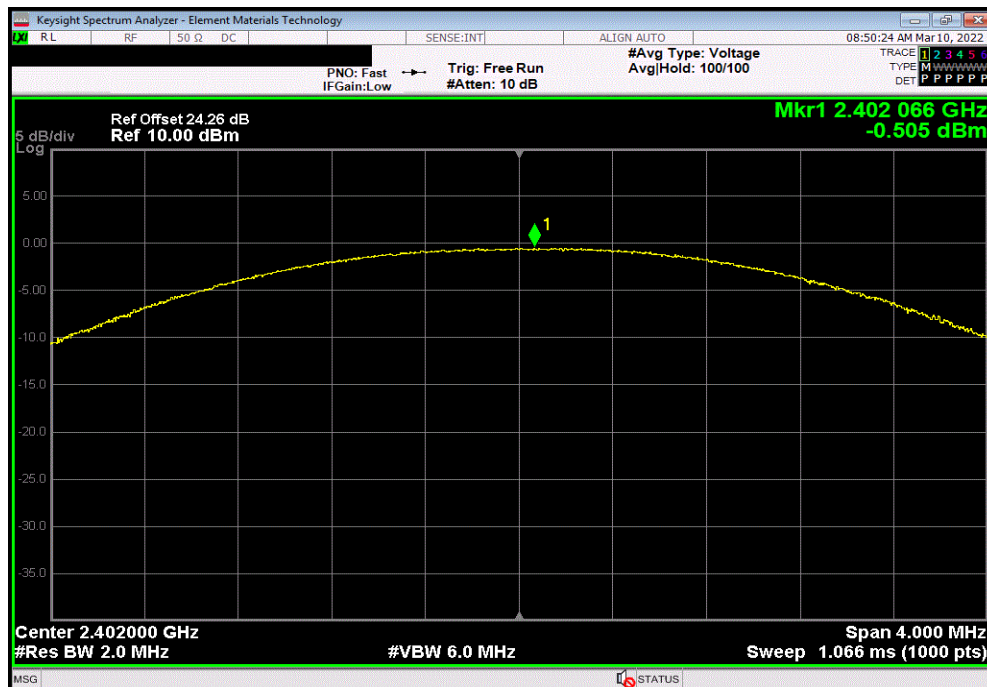


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DH5, GFSK, High Channel, 2480 MHz						
	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
	0.028	4	4.028	27	Pass	



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
	-0.505	4	3.495	27	Pass	

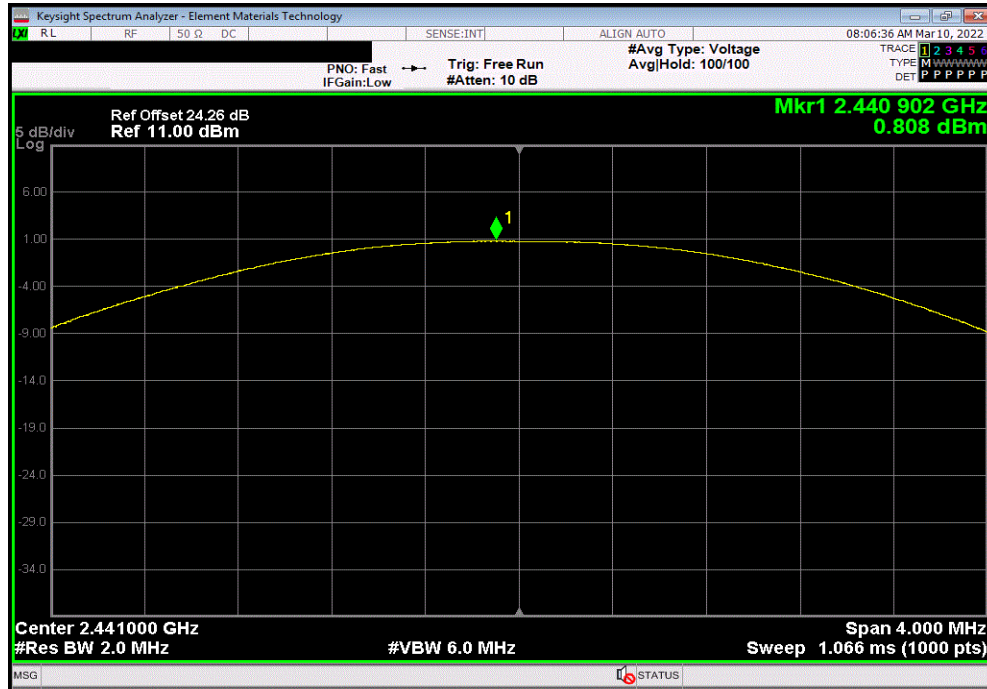


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

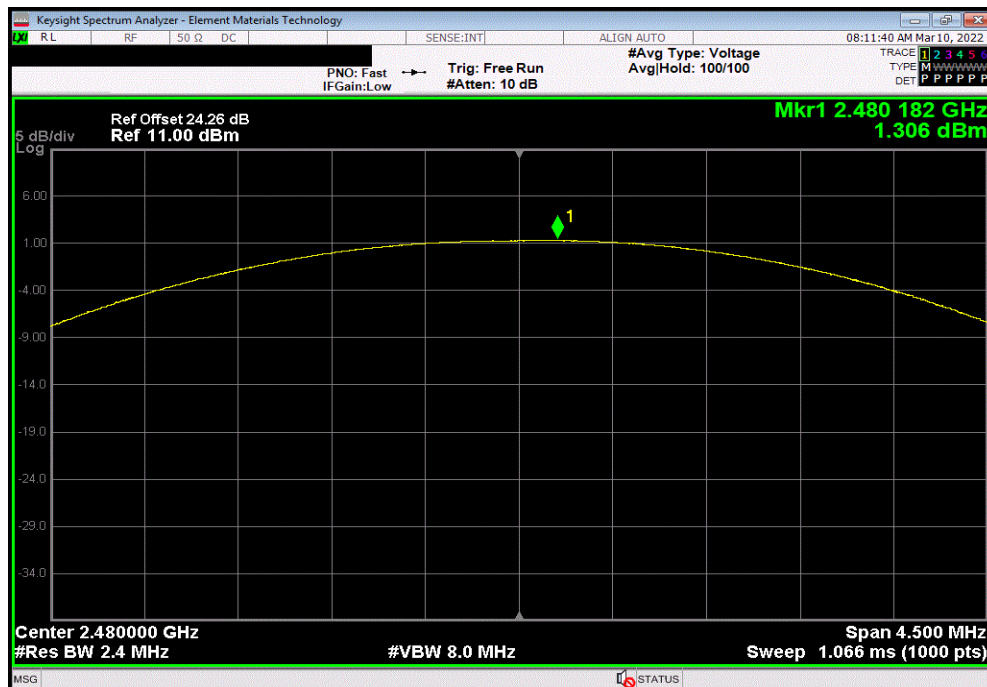


TbTtx 2021.10.29.2 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
0.808	4	4.808	27	Pass		



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result		
1.306	4	5.306	27	Pass		

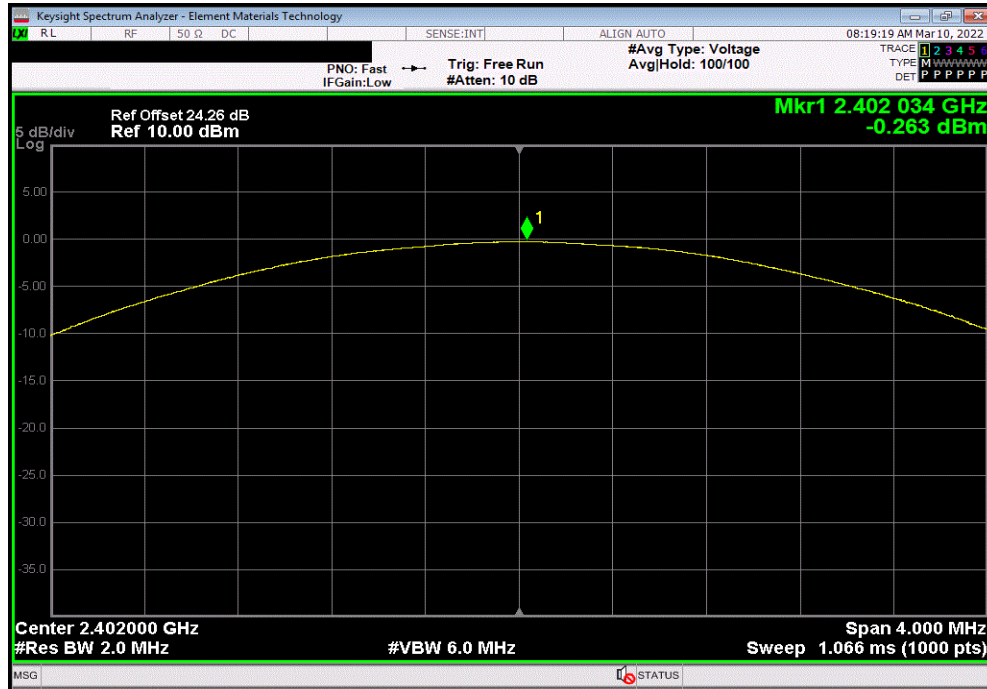


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

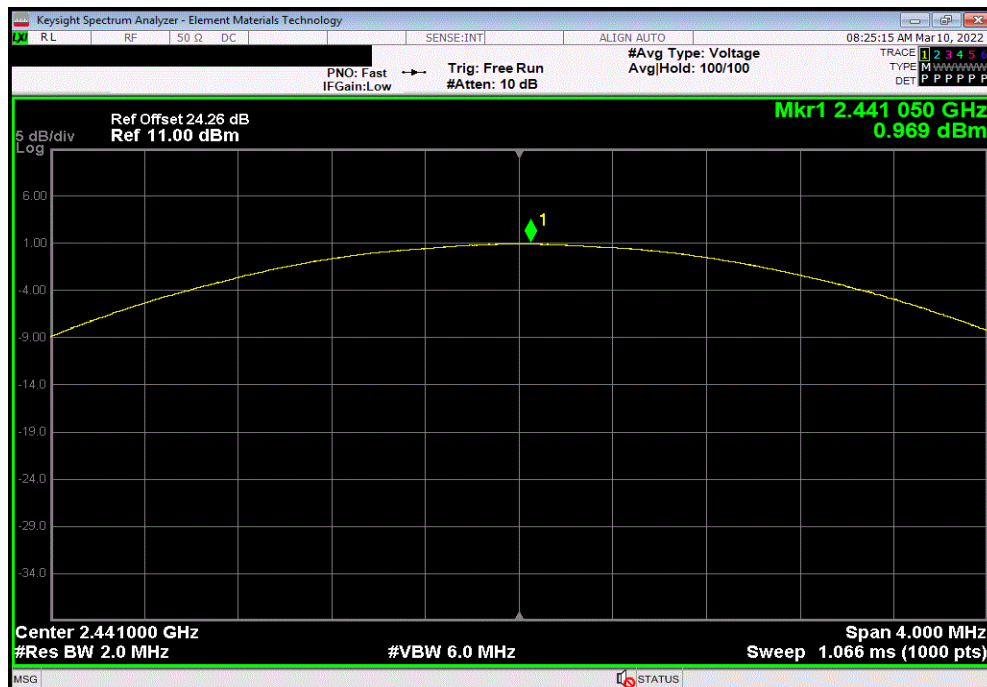


TbTx 2021.10.29.2 XMt 2022.02.07.0

3DH5, 8-DPSK, Low Channel, 2402 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
-0.263	4	3.737	27	Pass	



3DH5, 8-DPSK, Mid Channel, 2441 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
0.969	4	4.969	27	Pass	

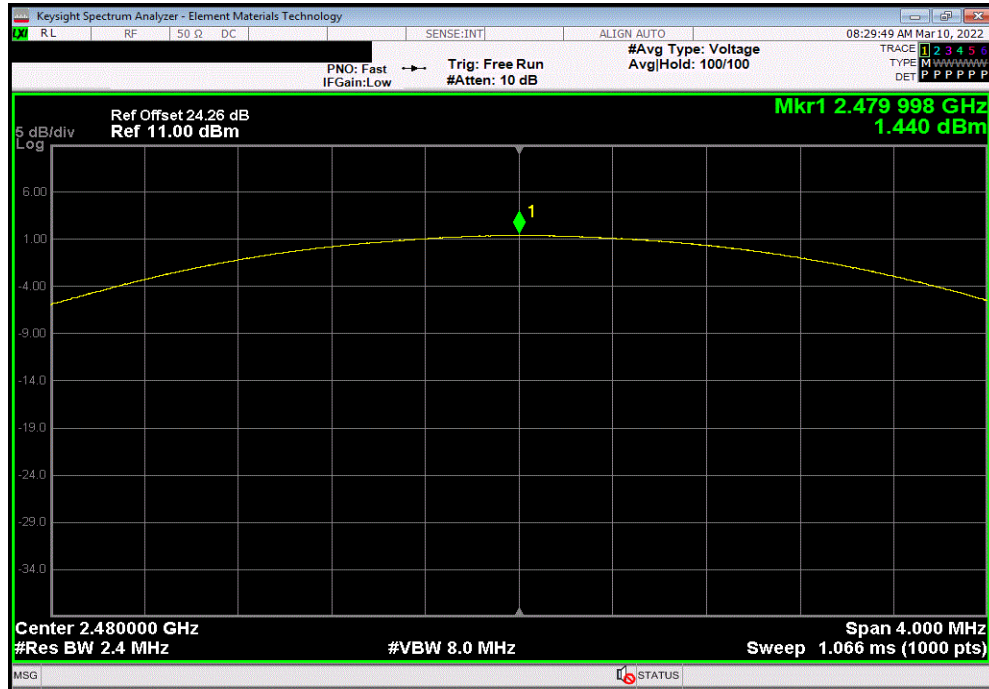


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TbTtx 2021.10.29.2 XMt 2022.02.07.0

3DH5, 8-DPSK, High Channel, 2480 MHz					
Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result	
1.44	4	5.44	27	Pass	



BAND EDGE COMPLIANCE



XMI 2022.02.07.0

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TEST EQUIPMENT

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Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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 low and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels closest to the band edges were selected.

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

BAND EDGE COMPLIANCE



TSTx 2021.12.14.1 XMR 2022.02.07.0

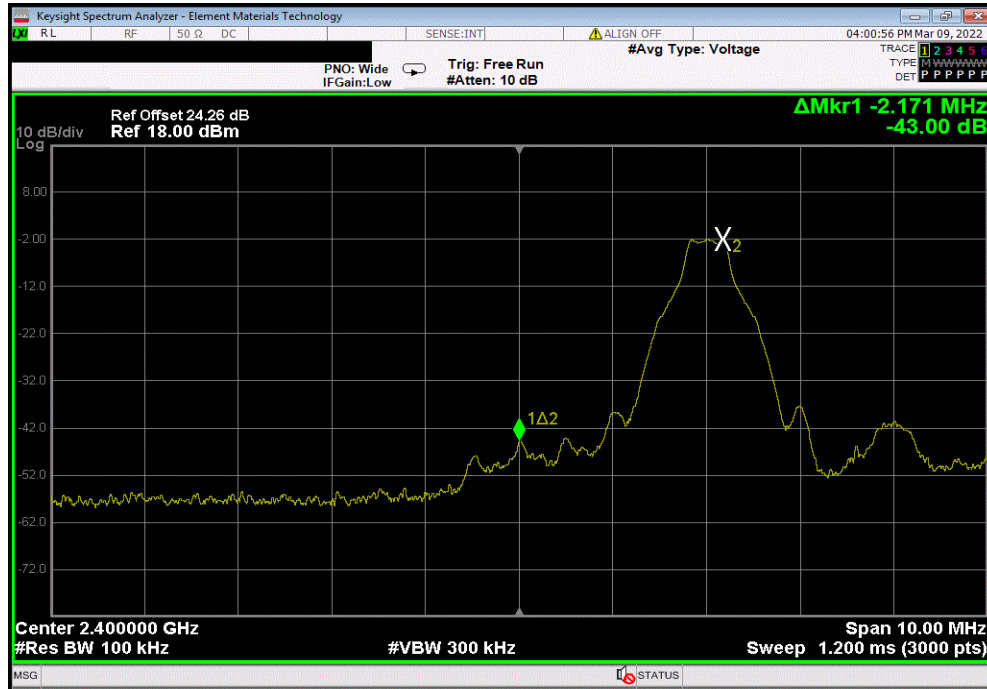
EUT: Sierra		Work Order: LISA0056	
Serial Number: 500042135		Date: 9-Mar-22	
Customer: LightSpeed Aviation		Temperature: 20.7 °C	
Attendees: Ed Katz		Humidity: 37.6% RH	
Project: None		Barometric Pres.: 1025 mbar	
Tested by: Jeff Alcock	Power: Battery	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, measurement cable, and manufacturers SMA patch cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value (dBc)	Limit ≤ (dBc) Result
DH5, GFSK			
Low Channel, 2402 MHz		-43	-20 Pass
High Channel, 2480 MHz		-47.93	-20 Pass
2DH5, pi/4-DQPSK			
Low Channel, 2402 MHz		-46.31	-20 Pass
High Channel, 2480 MHz		-44.1	-20 Pass
3DH5, 8-DPSK			
Low Channel, 2402 MHz		-44.66	-20 Pass
High Channel, 2480 MHz		-45.71	-20 Pass

BAND EDGE COMPLIANCE



TbTtx 2021.12.14.1 XMt 2022.02.07.0

DH5, GFSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-43	-20	Pass



DH5, GFSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-47.93	-20	Pass

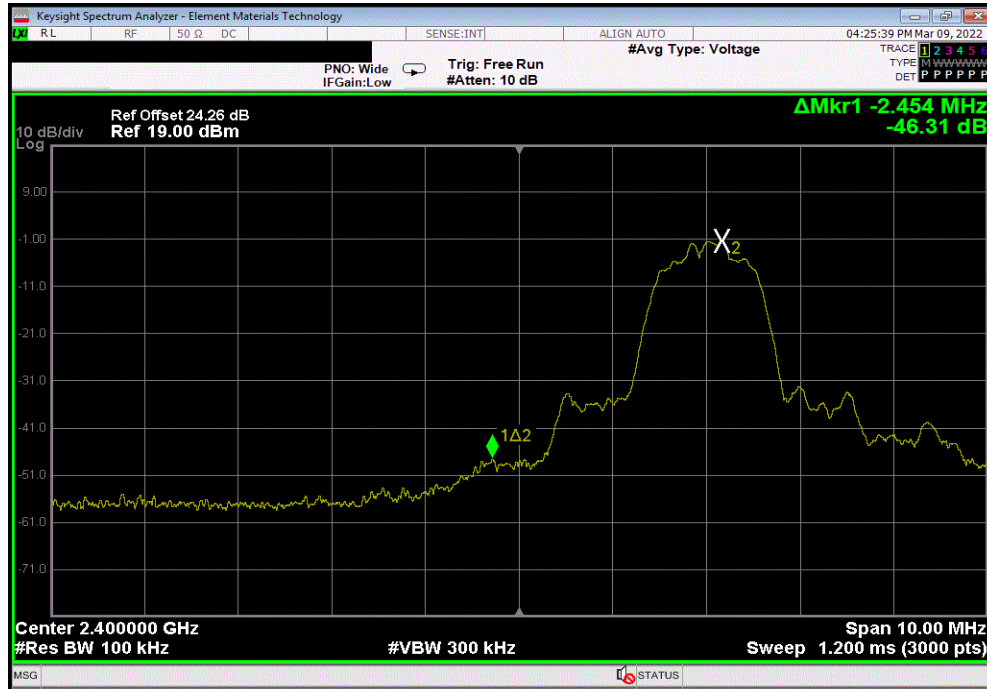


BAND EDGE COMPLIANCE

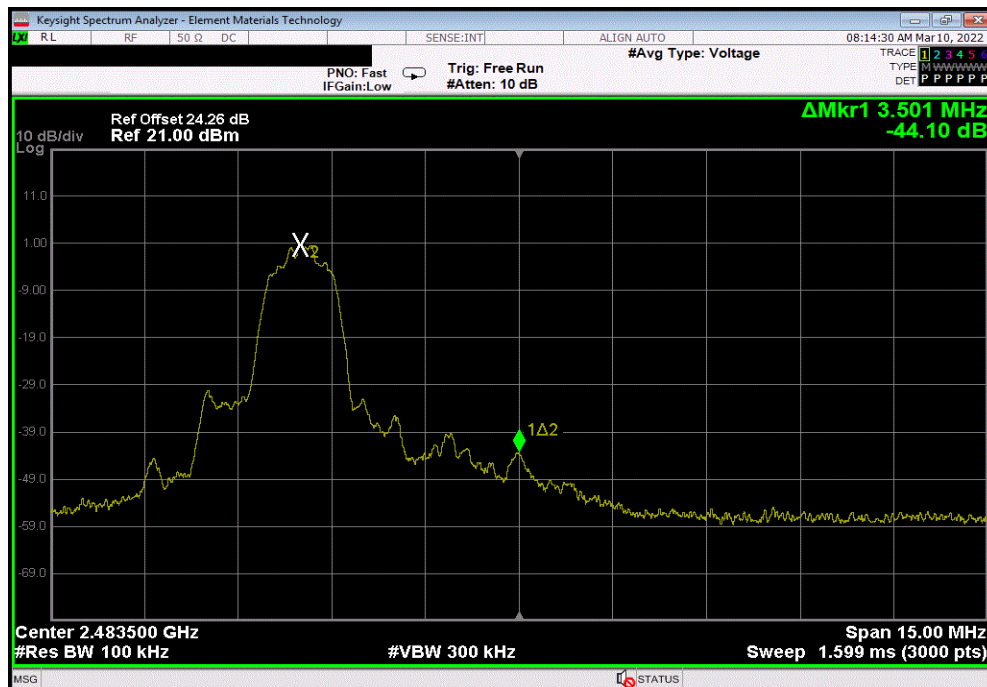


TbTtX 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-46.31	-20	Pass



2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-44.1	-20	Pass

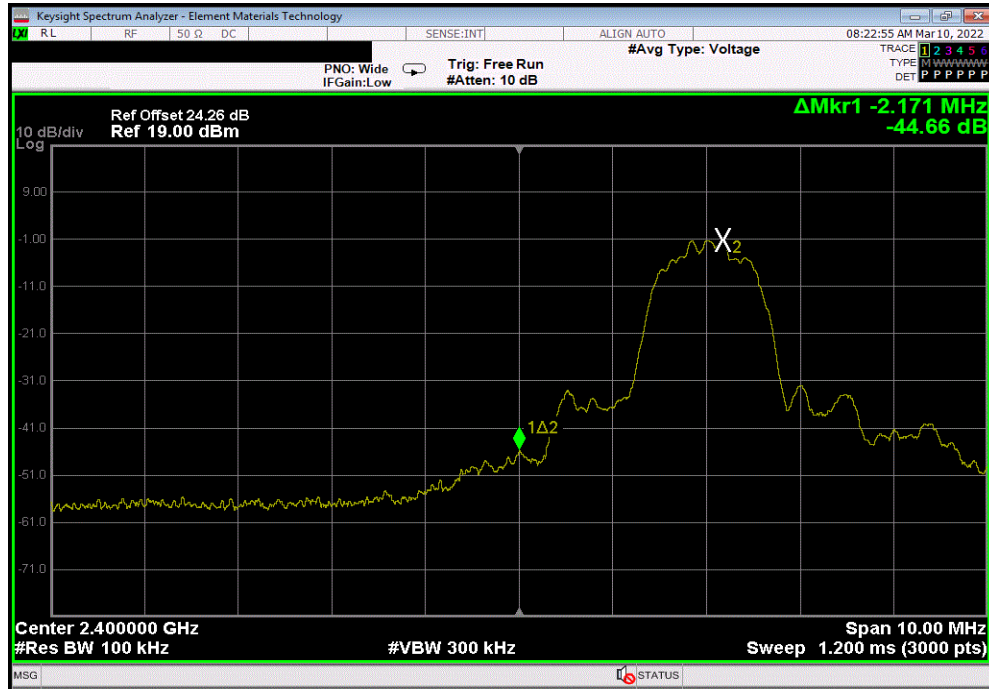


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMt 2022.02.07.0

3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-44.66	-20	Pass



3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-45.71	-20	Pass



BAND EDGE COMPLIANCE - HOPPING MODE

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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



TSTx 2021.12.14.1 XMR 2022.02.07.0

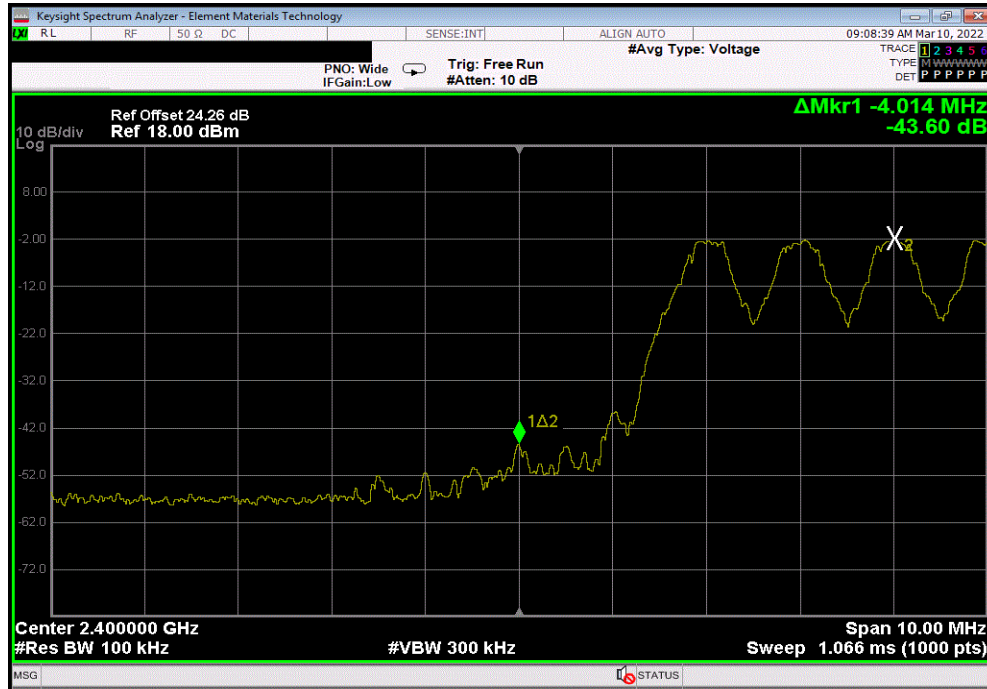
EUT: Sierra		Work Order: LISA0056	
Serial Number: 500042135		Date: 9-Mar-22	
Customer: LightSpeed Aviation		Temperature: 20.7 °C	
Attendees: Ed Katz		Humidity: 37.5% RH	
Project: None		Barometric Pres.: 1025 mbar	
Tested by: Jeff Alcock		Power: Battery	
		Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, measurement cable, and manufacturers SMA patch cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value (dBc)	Limit ≤ (dBc) Result
Hopping Mode (All Channels)			
DH5, GFSK			
	Low Channel, 2402 MHz	-43.6	-20 Pass
	High Channel, 2480 MHz	-53.05	-20 Pass
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	-48.08	-20 Pass
	High Channel, 2480 MHz	-43.45	-20 Pass
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	-47.9	-20 Pass
	High Channel, 2480 MHz	-45.68	-20 Pass

BAND EDGE COMPLIANCE - HOPPING MODE

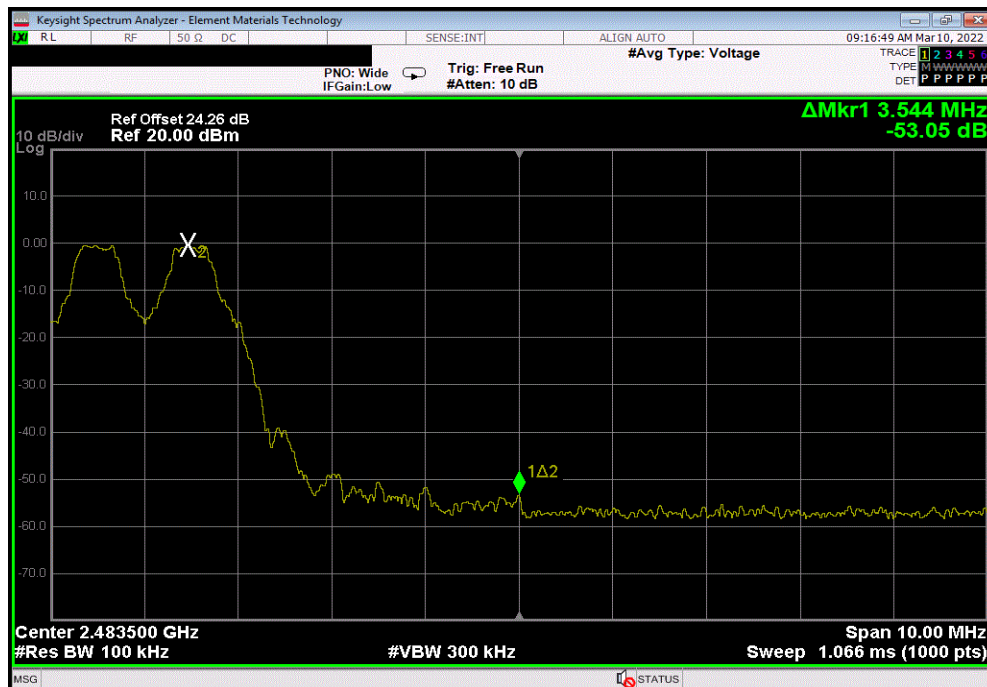


TbTtx 2021.12.14.1 XMt 2022.02.07.0

Hopping Mode (All Channels), DH5, GFSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-43.6	-20	Pass



Hopping Mode (All Channels), DH5, GFSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-53.05	-20	Pass

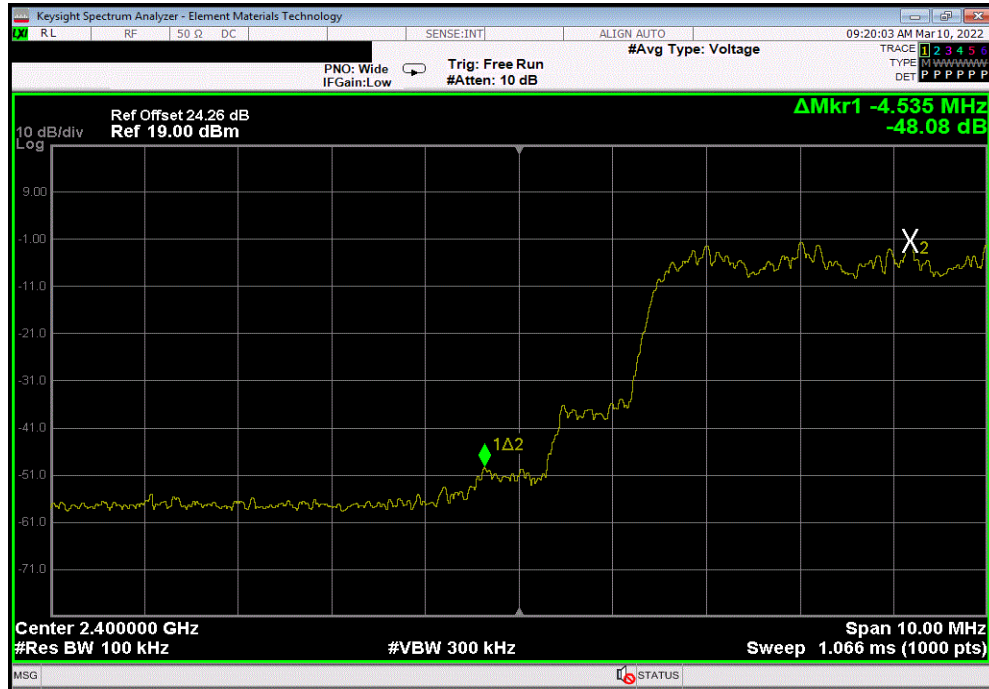


BAND EDGE COMPLIANCE - HOPPING MODE



TbTtX 2021.12.14.1 XMt 2022.02.07.0

Hopping Mode (All Channels), 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-48.08	-20	Pass



Hopping Mode (All Channels), 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-43.45	-20	Pass

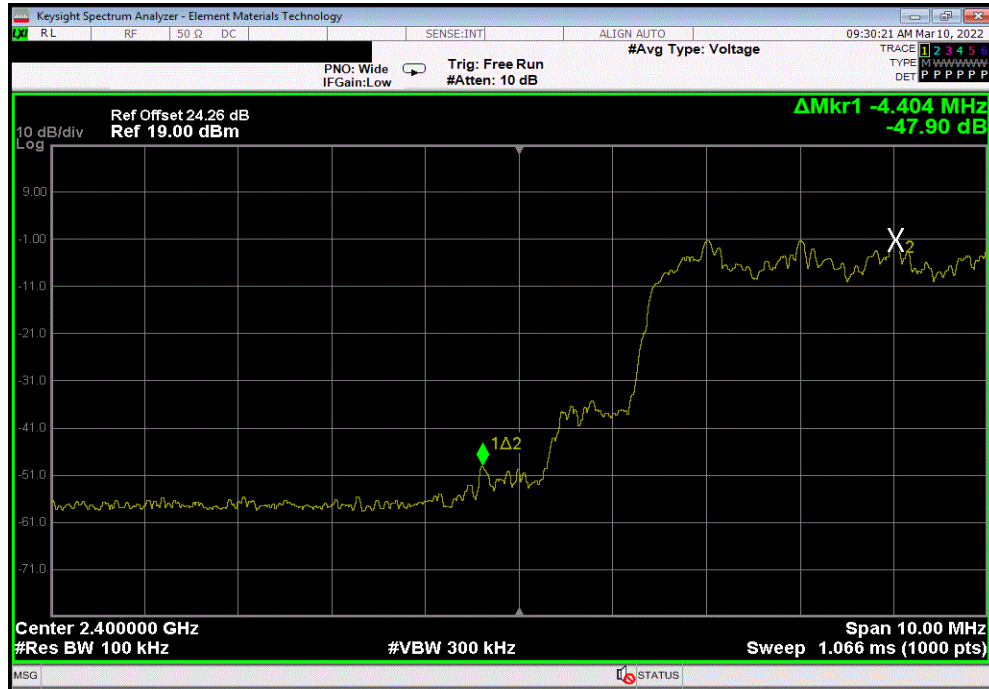


BAND EDGE COMPLIANCE - HOPPING MODE



TbTtx 2021.12.14.1 XMt 2022.02.07.0

Hopping Mode (All Channels), 3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-47.9	-20	Pass



Hopping Mode (All Channels), 3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-45.68	-20	Pass



EMISSIONS BANDWIDTH (20 dB)



XMIT 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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 (20 dB)



TSTx 2021.12.14.1 XMR 2022.02.07.0

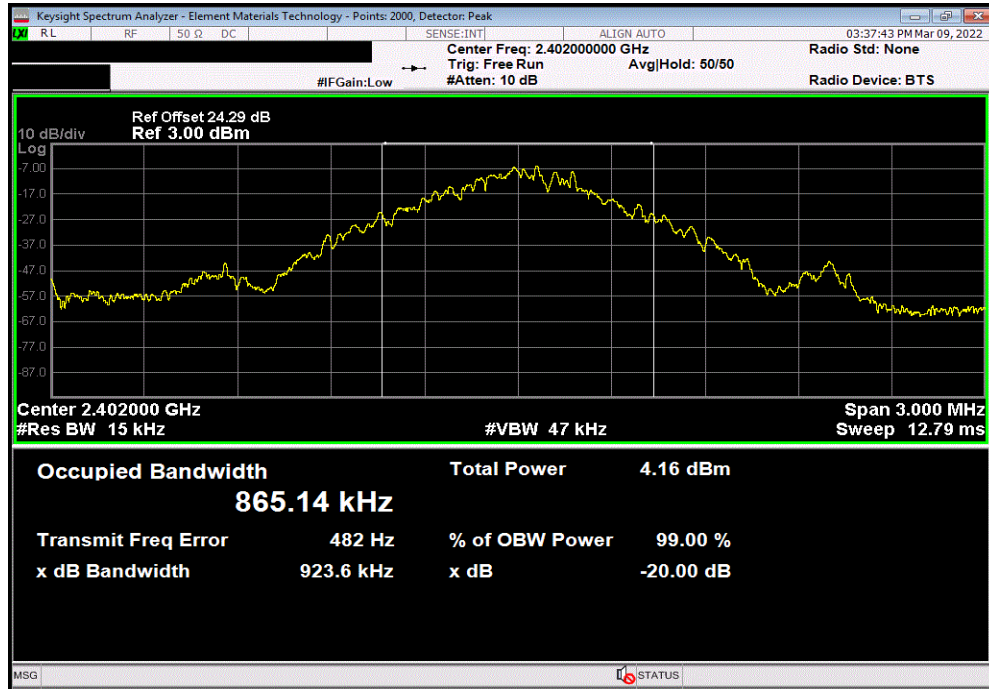
EUT: Sierra		Work Order: LISA0056	
Serial Number: 500042135		Date: 9-Mar-22	
Customer: LightSpeed Aviation		Temperature: 20.7 °C	
Attendees: Ed Katz		Humidity: 37.9% RH	
Project: None		Barometric Pres.: 1025 mbar	
Tested by: Jeff Alcock	Power: Battery	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, measurement cable, and manufacturers SMA patch cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Value	Limit (<) Result
DH5, GFSK			
	Low Channel, 2402 MHz	923.558 kHz	1.5 MHz Pass
	Mid Channel, 2441 MHz	930.177 kHz	1.5 MHz Pass
	High Channel, 2480 MHz	915.642 kHz	1.5 MHz Pass
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	1.338 MHz	1.5 MHz Pass
	Mid Channel, 2441 MHz	1.201 MHz	1.5 MHz Pass
	High Channel, 2480 MHz	1.312 MHz	1.5 MHz Pass
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	1.246 MHz	1.5 MHz Pass
	Mid Channel, 2441 MHz	1.245 MHz	1.5 MHz Pass
	High Channel, 2480 MHz	1.299 MHz	1.5 MHz Pass

EMISSIONS BANDWIDTH (20 dB)

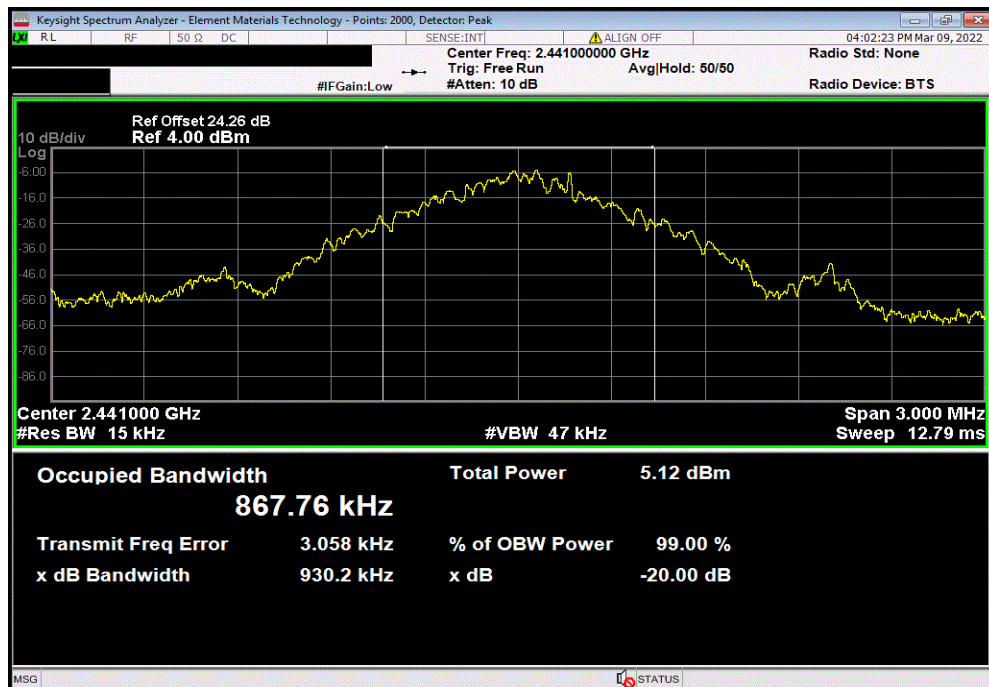


TbTx 2021.12.14.1 XMt 2022.02.07.0

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



DH5, GFSK, Mid Channel, 2441 MHz						
	Value	Limit	Result			
		($<$)				
	930.177 kHz	1.5 MHz	Pass			

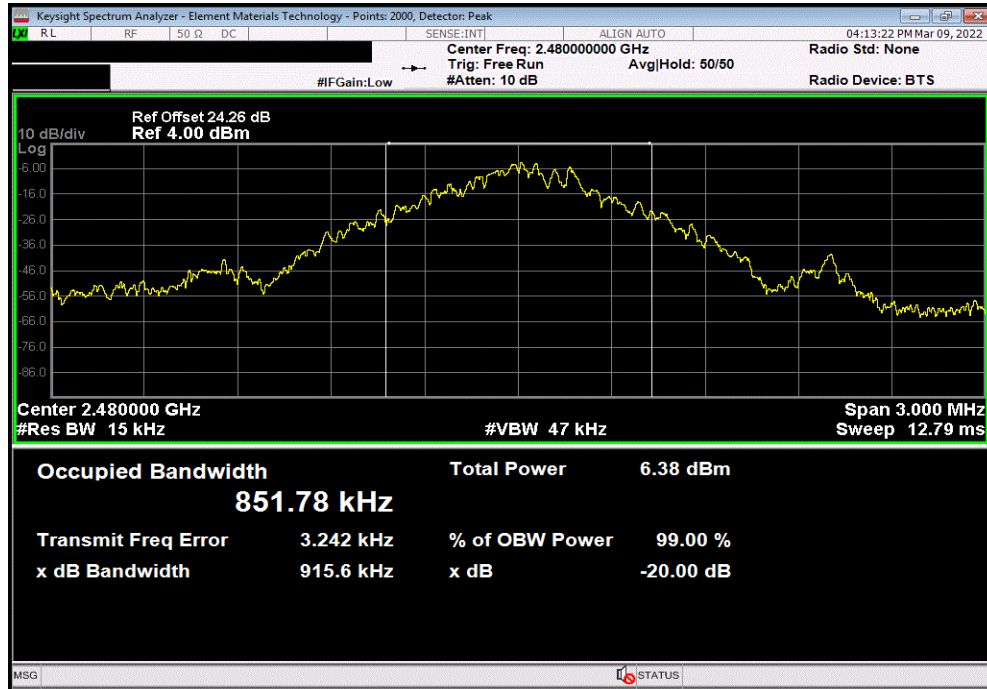


EMISSIONS BANDWIDTH (20 dB)

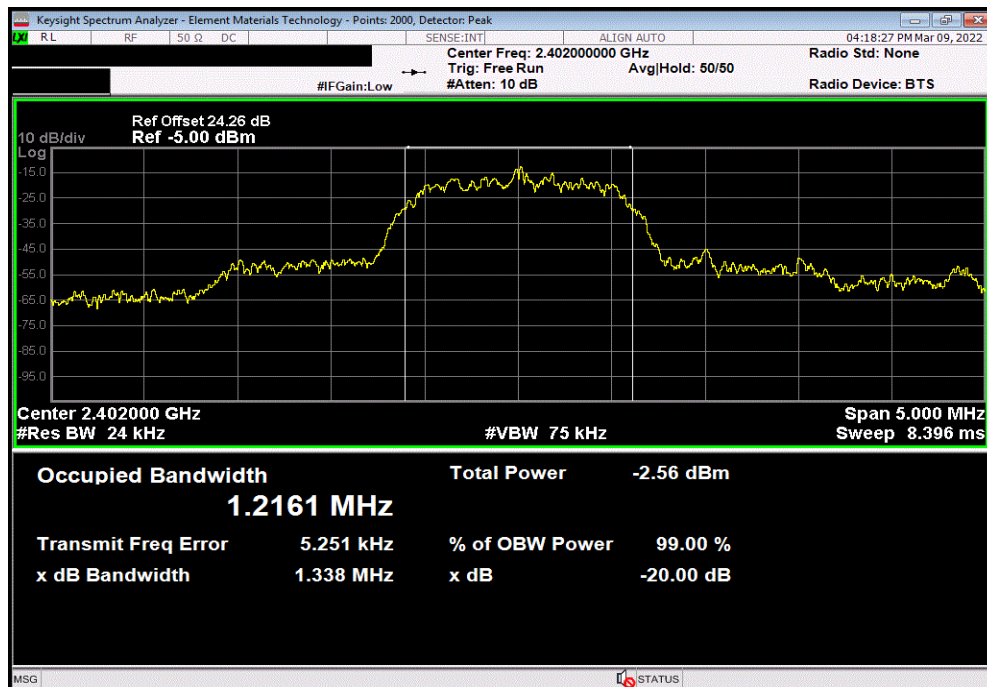


TbTx 2021.12.14.1 XbTx 2022.02.07.0

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



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

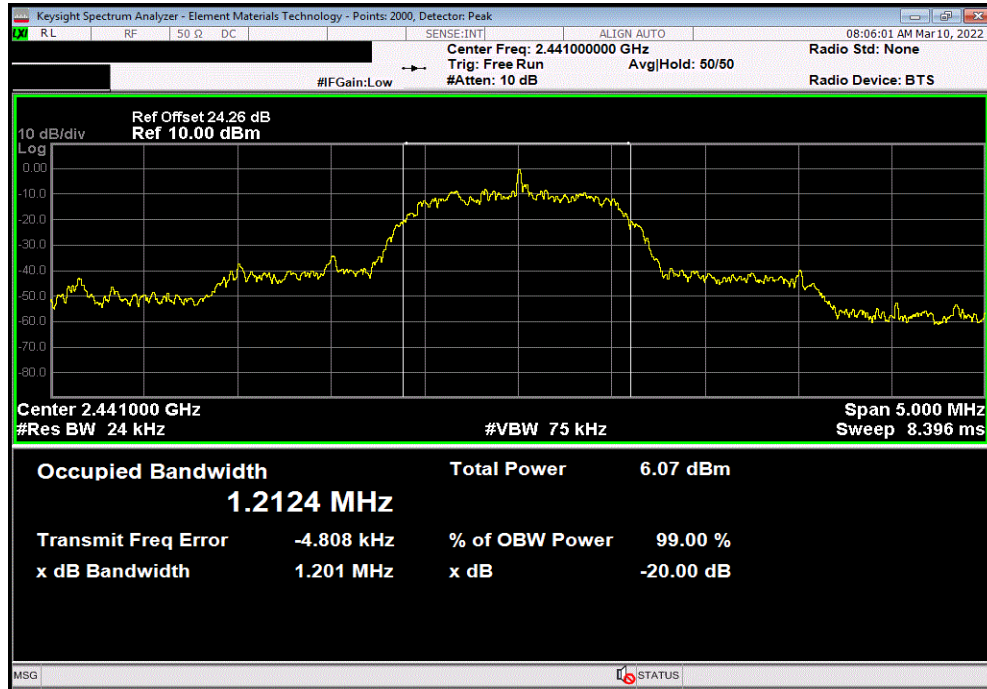


EMISSIONS BANDWIDTH (20 dB)

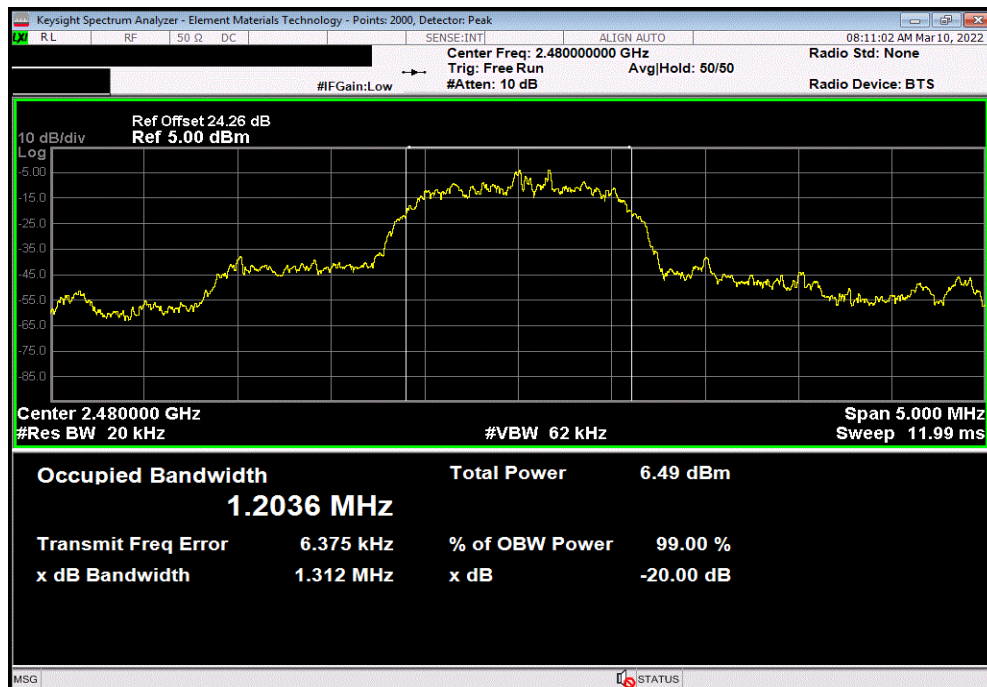


TbTtX 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz						
				Value	Limit (<)	Result
				1.201 MHz	1.5 MHz	Pass



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

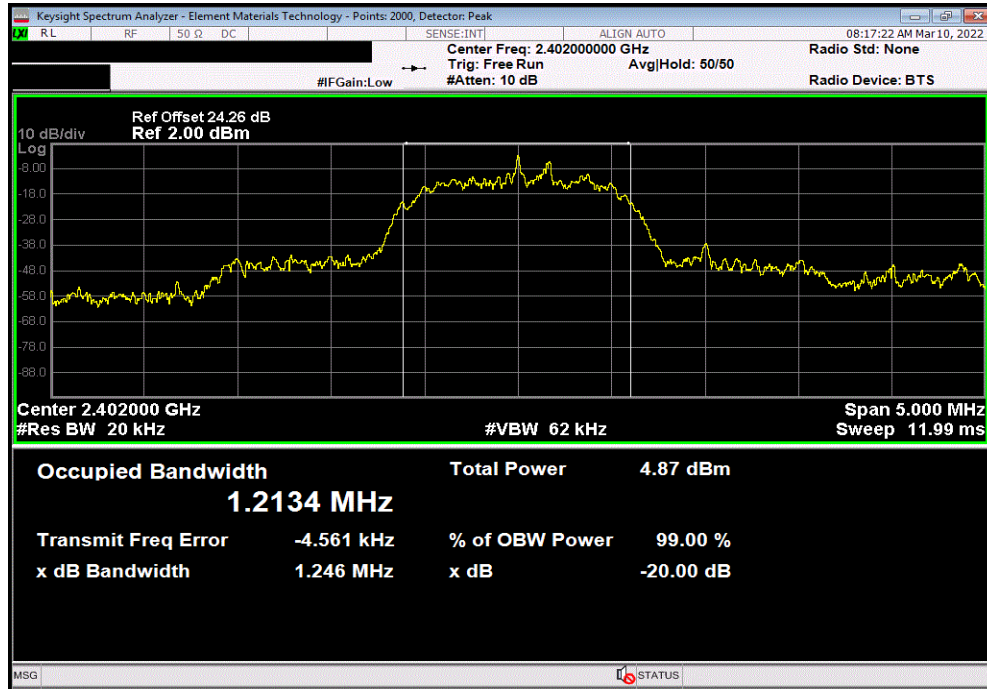


EMISSIONS BANDWIDTH (20 dB)

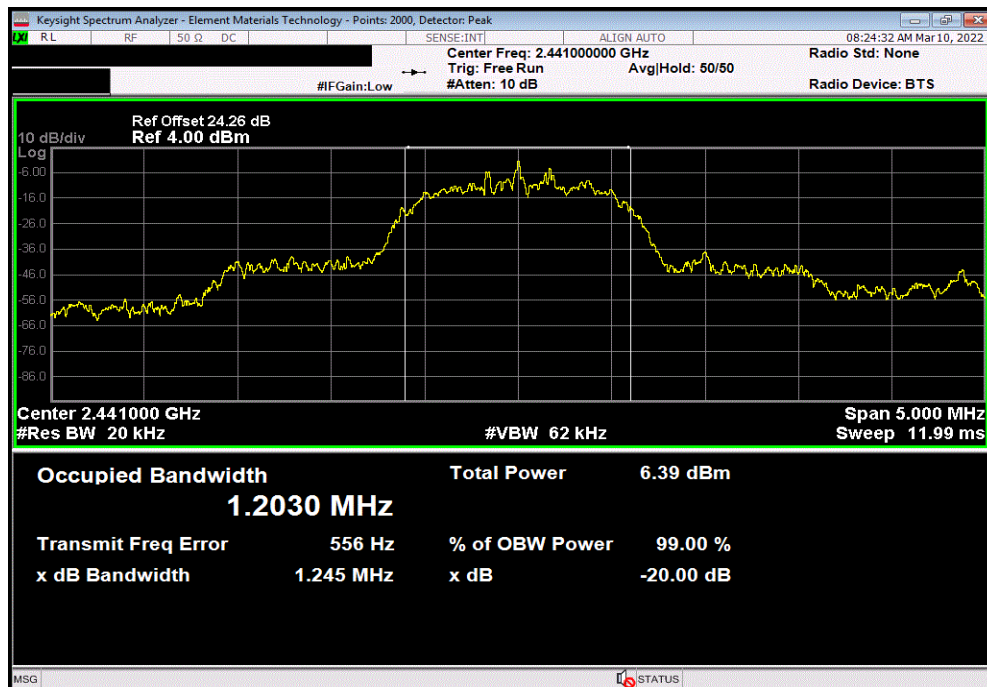


TbTx 2021.12.14.1 XMt 2022.02.07.0

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



3DH5, 8-DPSK, Mid Channel, 2441 MHz						
				Value	Limit (<)	Result
				1.245 MHz	1.5 MHz	Pass

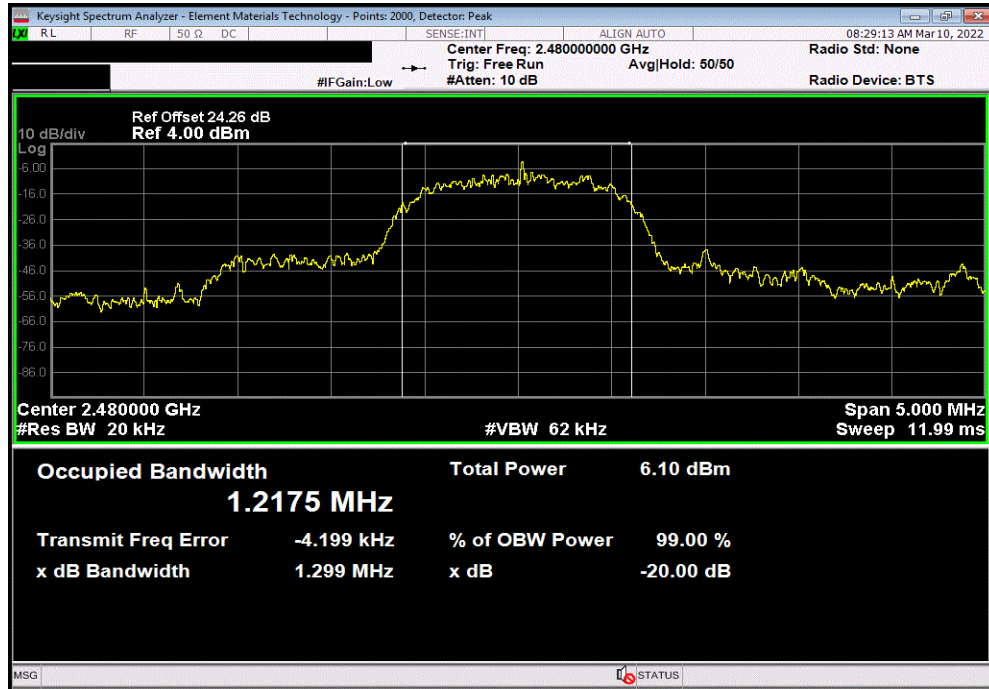


EMISSIONS BANDWIDTH (20 dB)



TbTtx 2021.12.14.1 XMt 2022.02.07.0

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



SPURIOUS CONDUCTED EMISSIONS



XMI 2022.02.07.0

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Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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 in a no-hop mode. 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.

SPURIOUS CONDUCTED EMISSIONS



TMTx 2021.12.14.1 XMR 2022.02.07.0

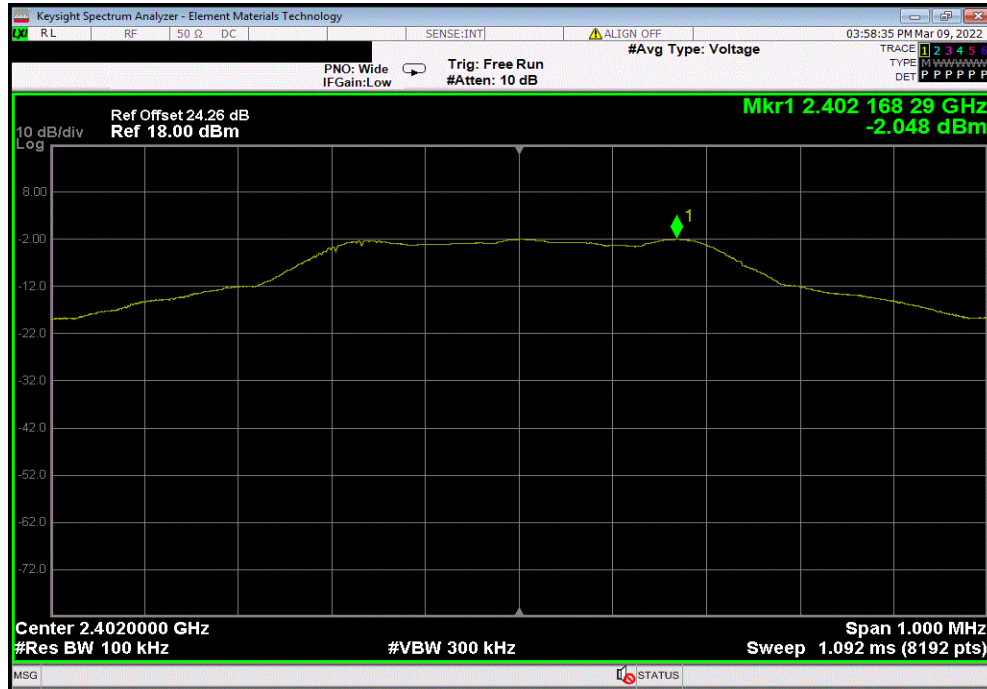
EUT: Sierra		Work Order: LISA0056	
Serial Number: 500042135		Date: 9-Mar-22	
Customer: LightSpeed Aviation		Temperature: 20.7 °C	
Attendees: Ed Katz		Humidity: 37.8% RH	
Project: None		Barometric Pres.: 1025 mbar	
Tested by: Jeff Alcock		Power: Battery	
		Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, and manufacturers SMA patch cable. The corrections factors for the calibrated measurement cable are applied to the analyzer.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		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	4804.25
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23823.4
	Mid Channel, 2441 MHz	Fundamental	2441.17
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	4881.9
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	23774.57
	High Channel, 2480 MHz	Fundamental	2480.17
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4961.06
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23791.36
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	Fundamental	2402.17
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	3834.48
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	24589.49
	Mid Channel, 2441 MHz	Fundamental	2441
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	5195.51
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	23943.96
	High Channel, 2480 MHz	Fundamental	2480.01
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4959.54
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	24760.41
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	Fundamental	2402.17
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	10983.69
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	23766.94
	Mid Channel, 2441 MHz	Fundamental	2441.17
	Mid Channel, 2441 MHz	30 MHz - 12.5 GHz	5192.47
	Mid Channel, 2441 MHz	12.5 GHz - 25 GHz	23553.29
	High Channel, 2480 MHz	Fundamental	2480.17
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	4961.06
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	23557.87

SPURIOUS CONDUCTED EMISSIONS

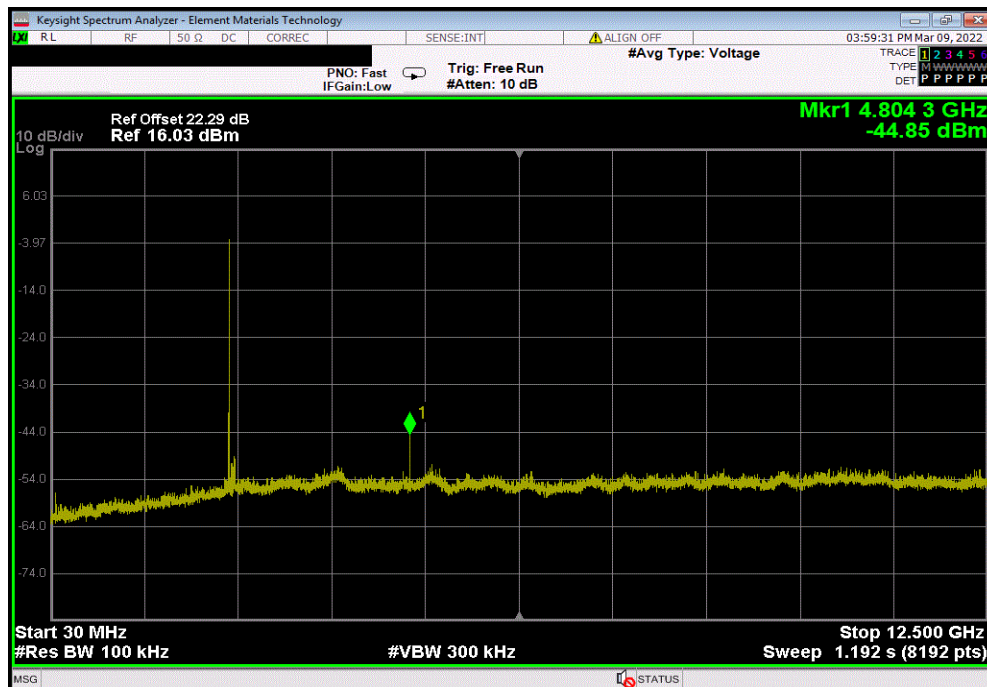


TbTtx 2021.12.14.1 XMt 2022.02.07.0

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	4804.25	-42.8	-20	Pass		

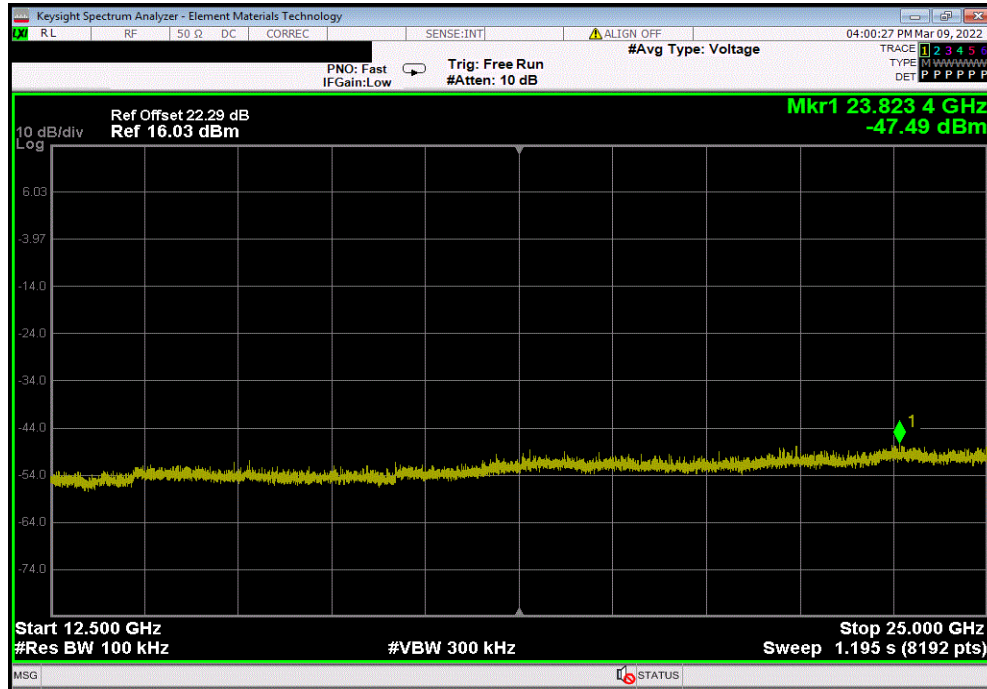


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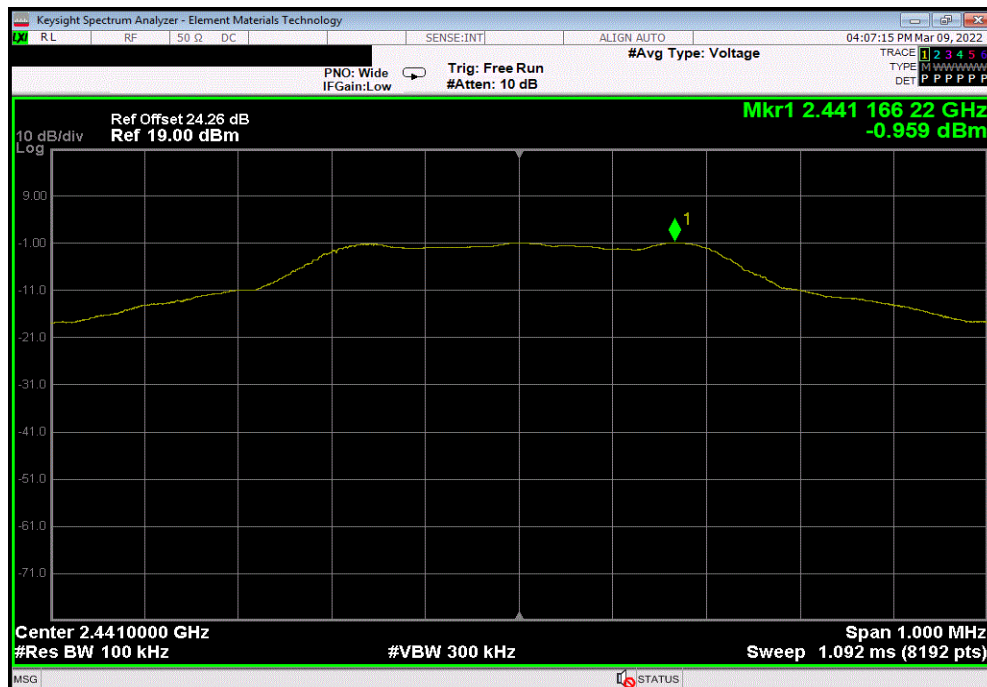


TbTtx 2021.12.14.1 XMt 2022.02.07.0

DH5, GFSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23823.4	-45.44	-20	Pass	



DH5, GFSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2441.17	N/A	N/A	N/A	

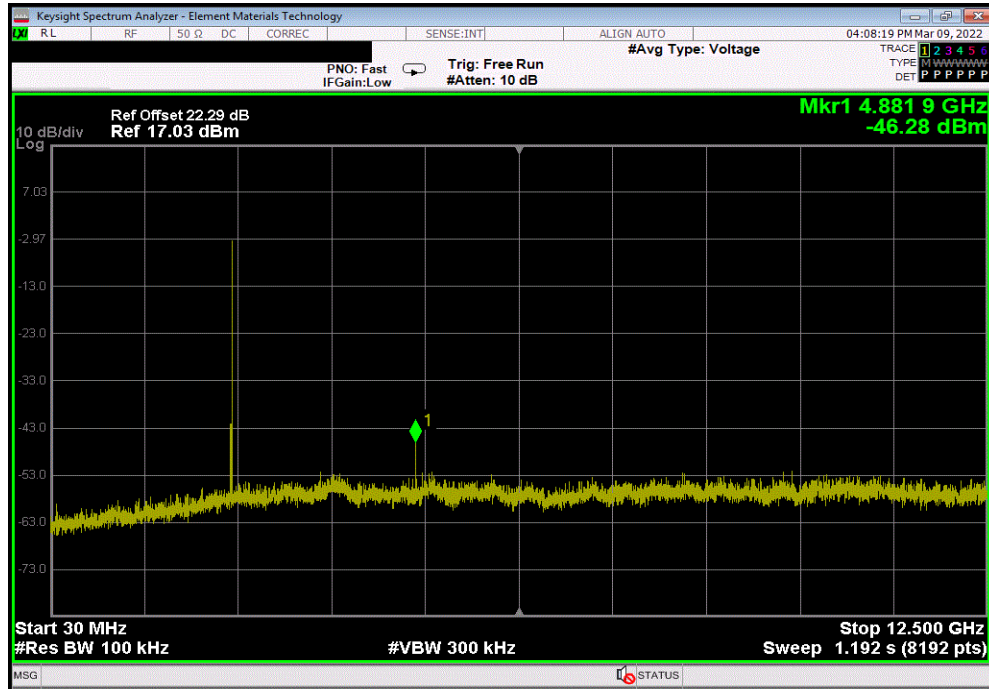


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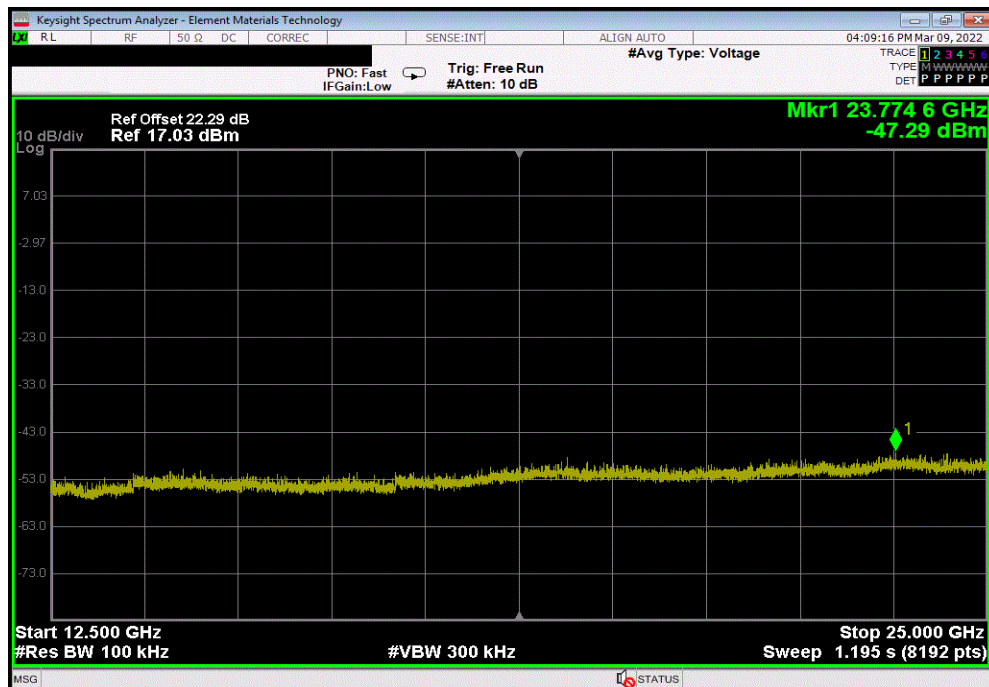


TbTtx 2021.12.14.1 XMt 2022.02.07.0

DH5, GFSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4881.9	-45.32	-20	Pass	



DH5, GFSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23774.57	-46.33	-20	Pass	

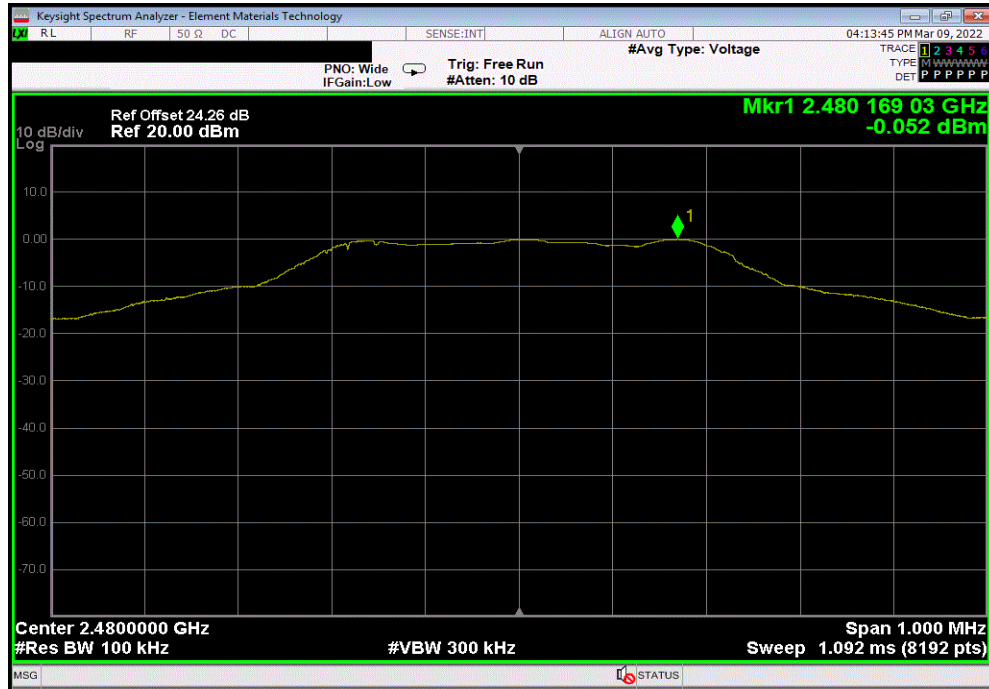


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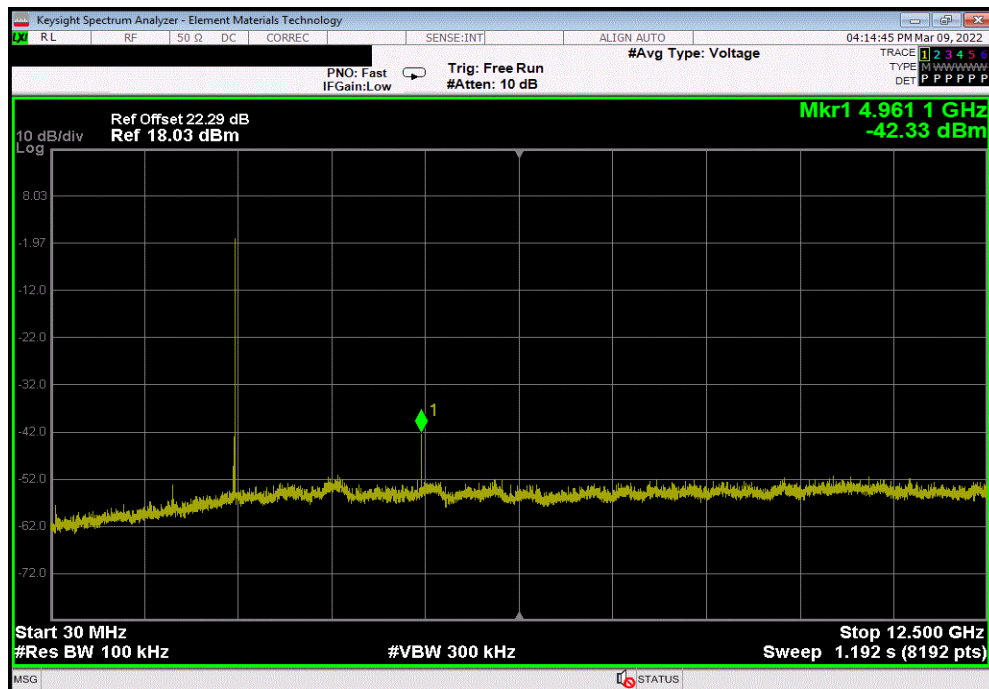


TbTx 2021.12.14.1 XMt 2022.02.07.0

DH5, GFSK, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2480.17	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	4961.06	-42.28	-20	Pass		

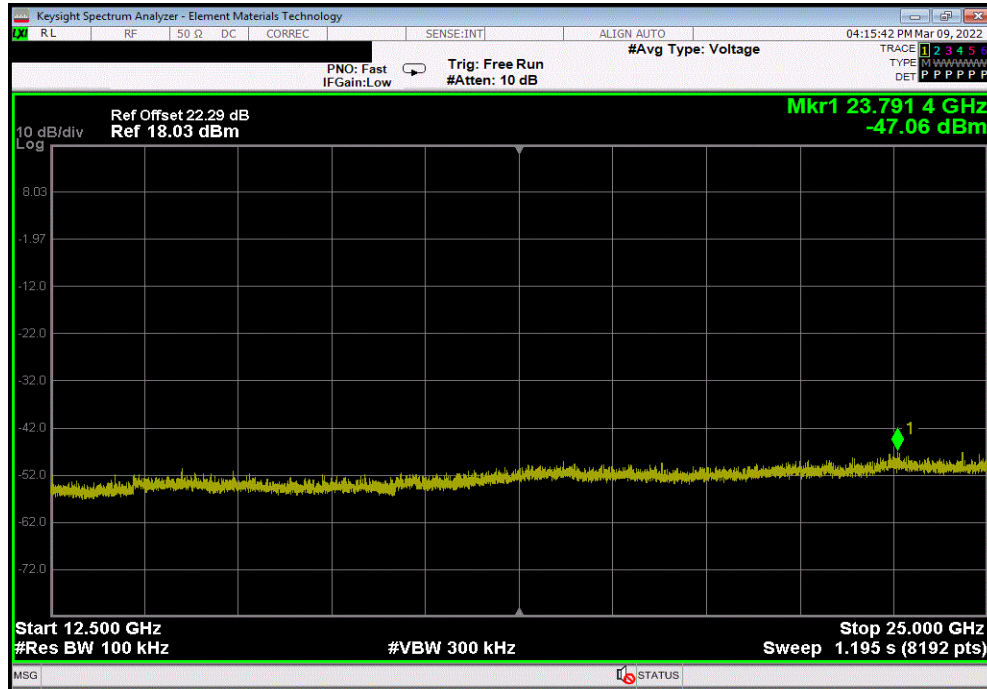


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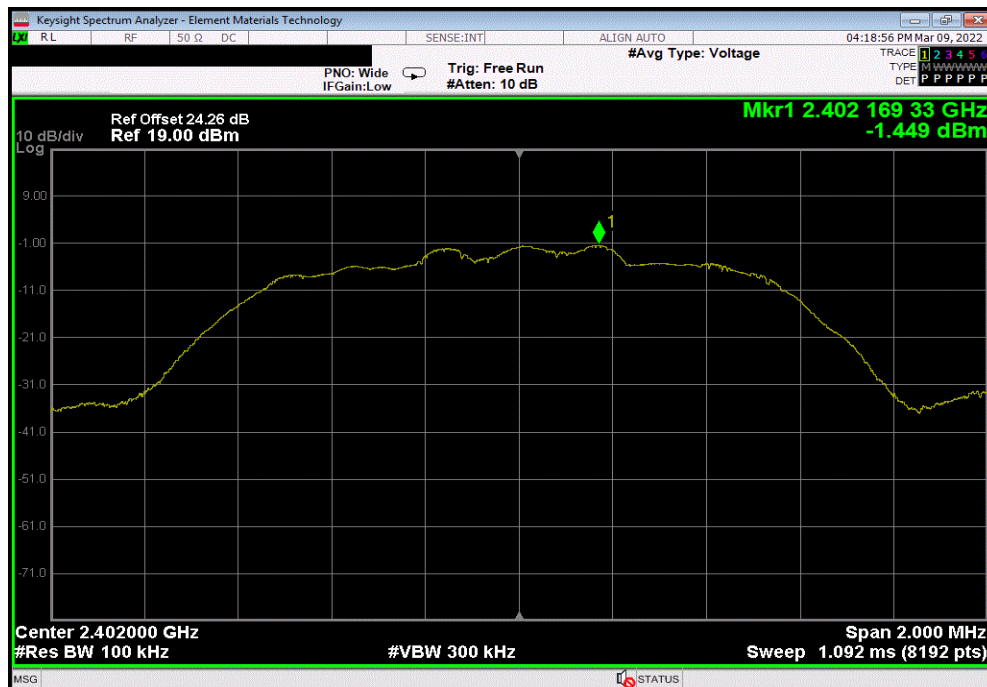


TbTtx 2021.12.14.1 XMt 2022.02.07.0

DH5, GFSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23791.36	-47.01	-20	Pass	



2DH5, pi/4-DQPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2402.17	N/A	N/A	N/A	

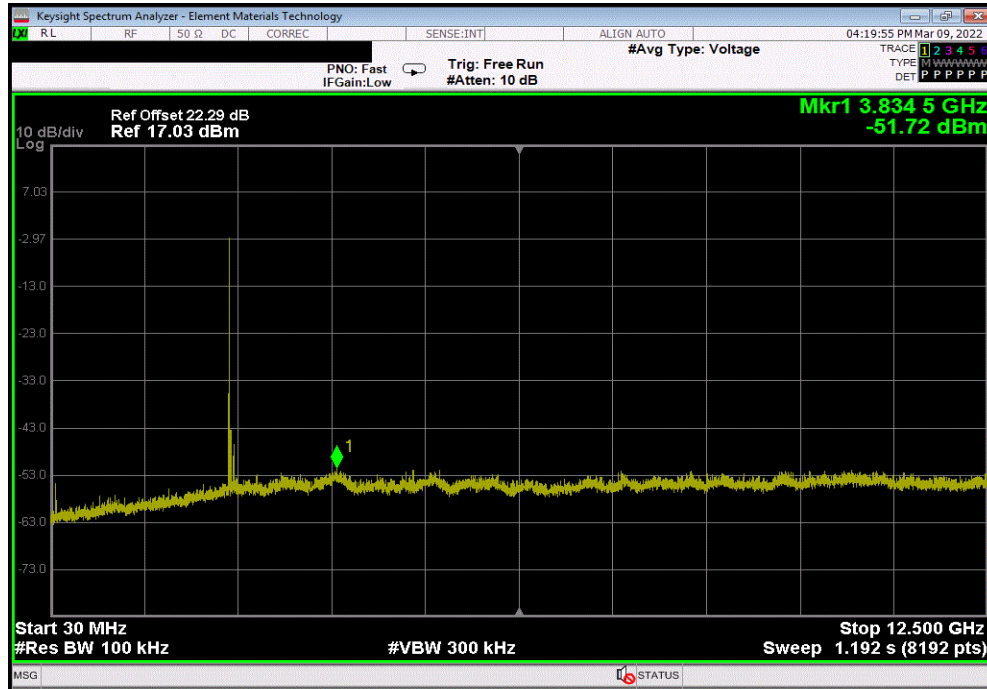


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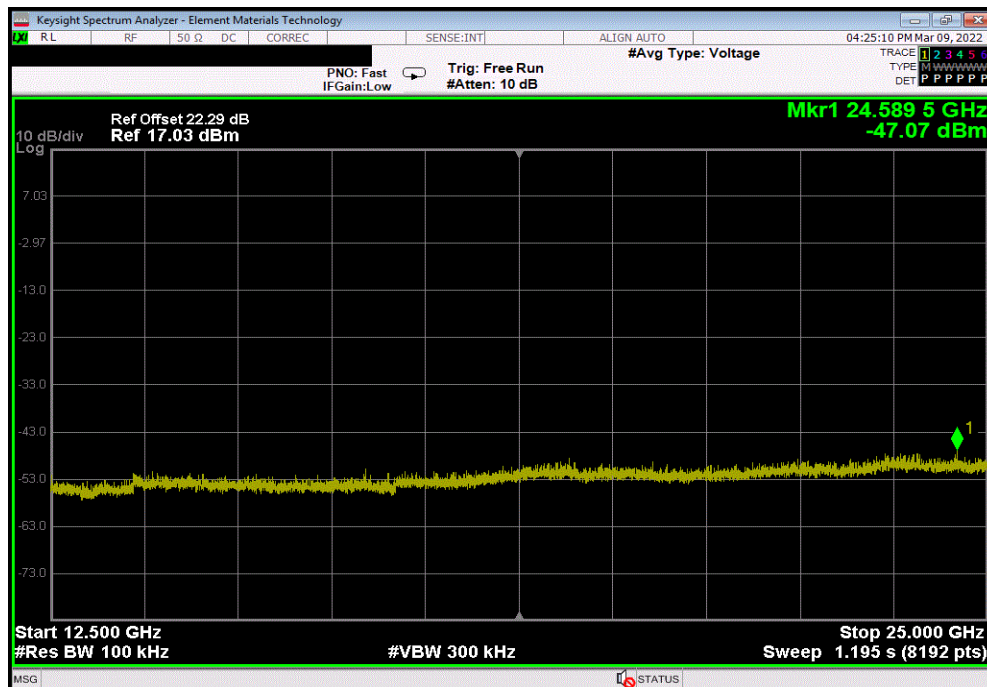


TbTtx 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3834.48	-50.27	-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	24589.49	-45.63	-20	Pass	

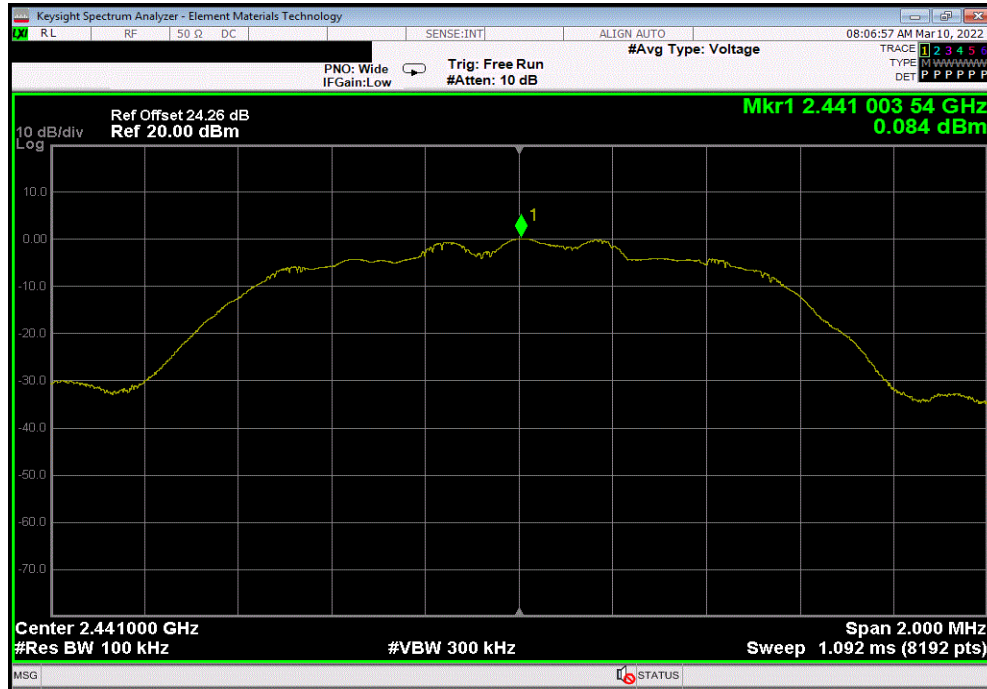


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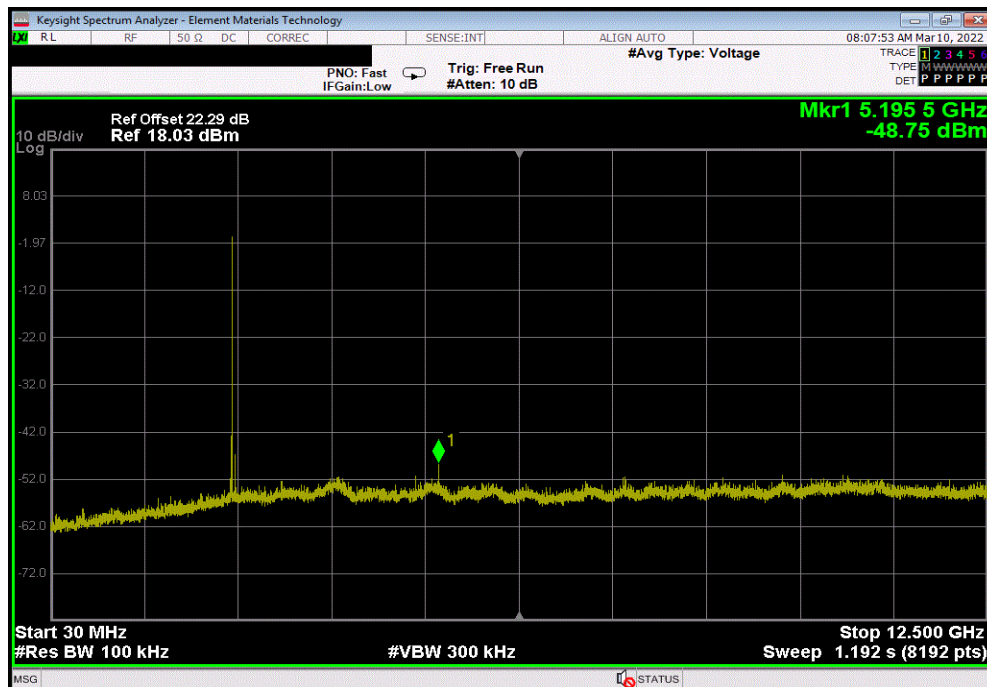


TbTtx 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2441	N/A	N/A	N/A	



2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	5195.51	-48.83	-20	Pass	

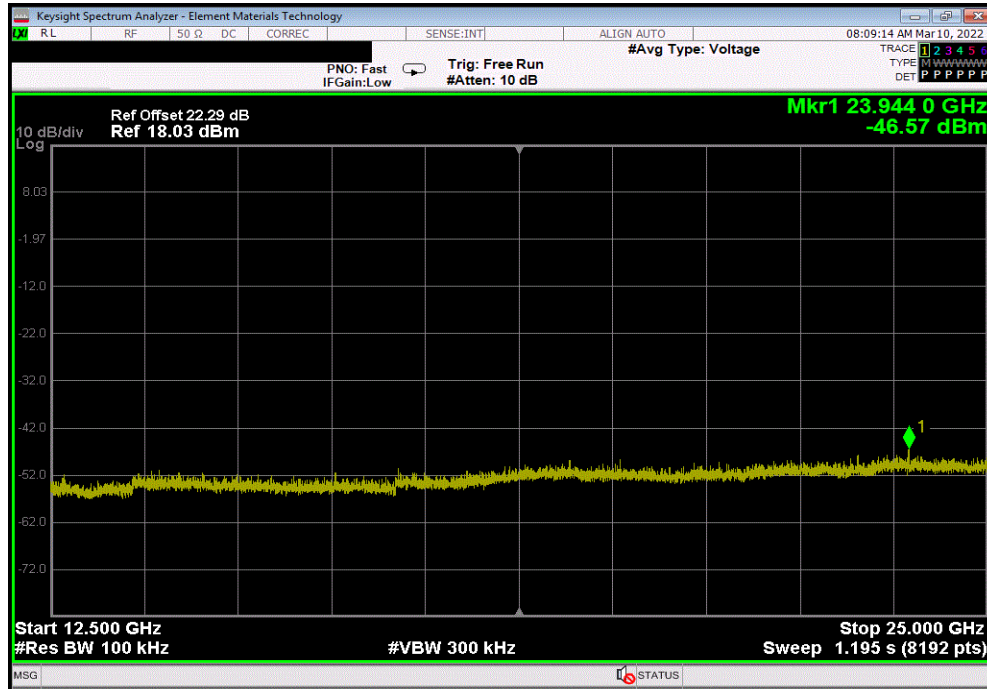


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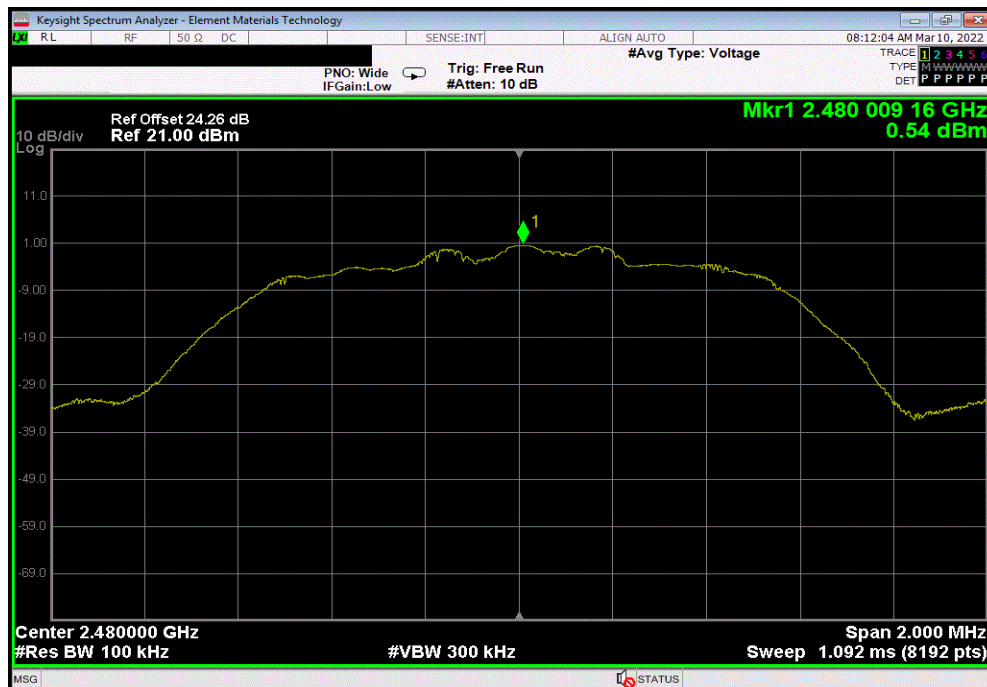


TbTtx 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23943.96	-46.65	-20	Pass	



2DH5, pi/4-DQPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2480.01	N/A	N/A	N/A	

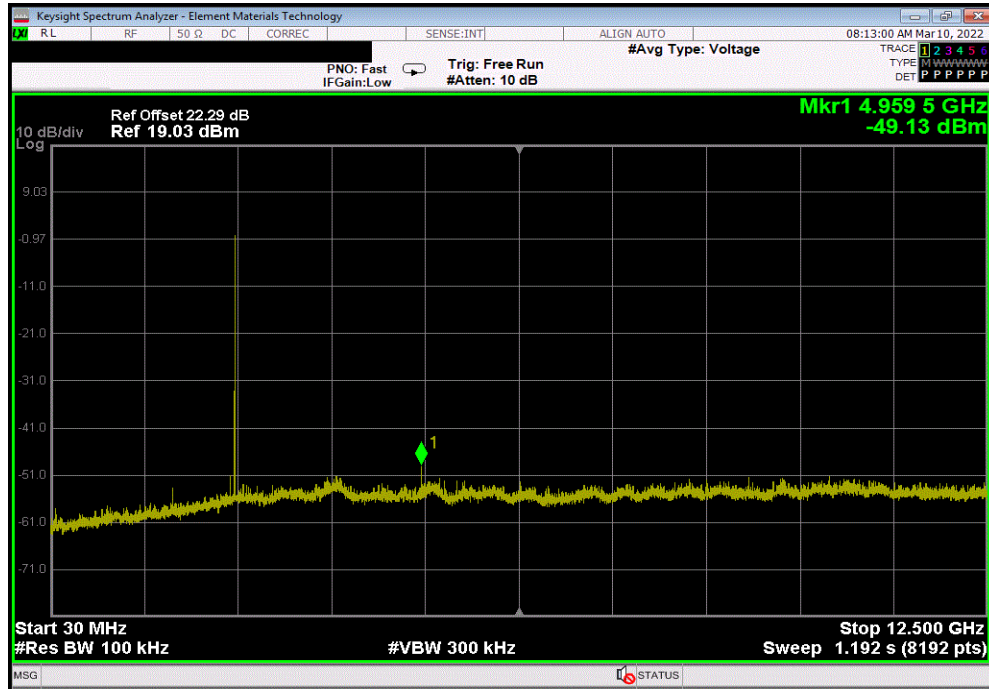


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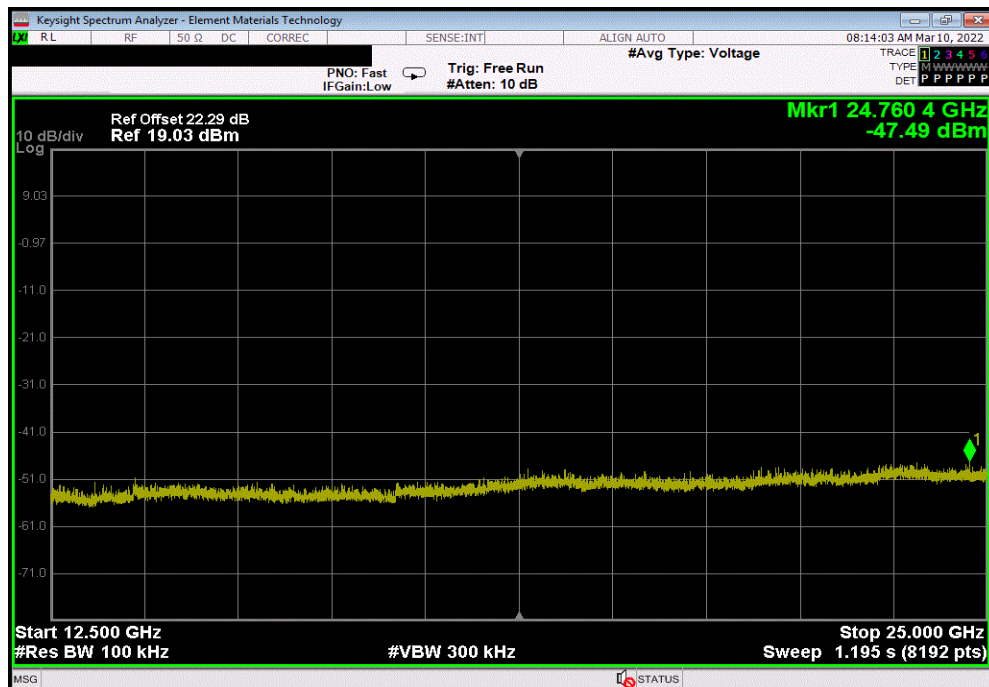


TbTtx 2021.12.14.1 XMt 2022.02.07.0

2DH5, pi/4-DQPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4959.54	-49.67	-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	24760.41	-48.03	-20	Pass	

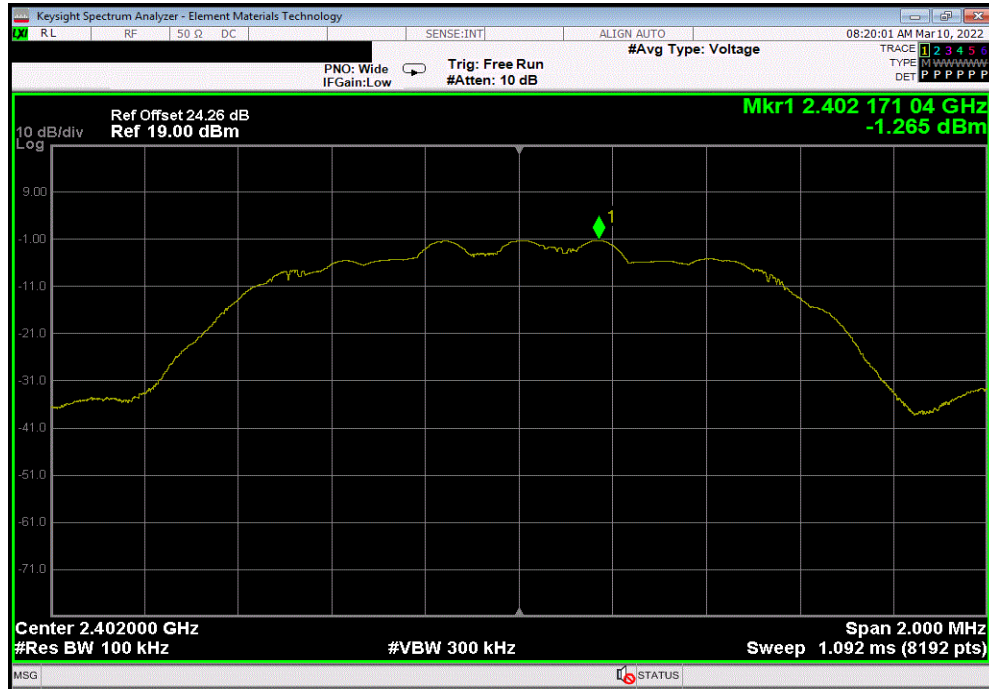


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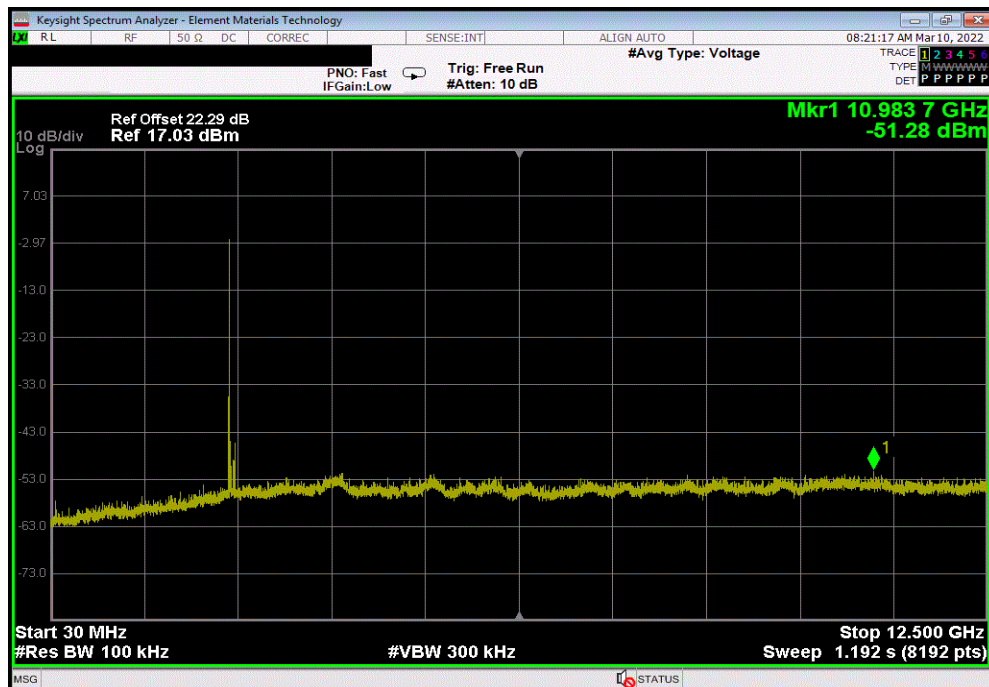


TbTtx 2021.12.14.1 XMt 2022.02.07.0

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	10983.69	-50.01	-20	Pass		

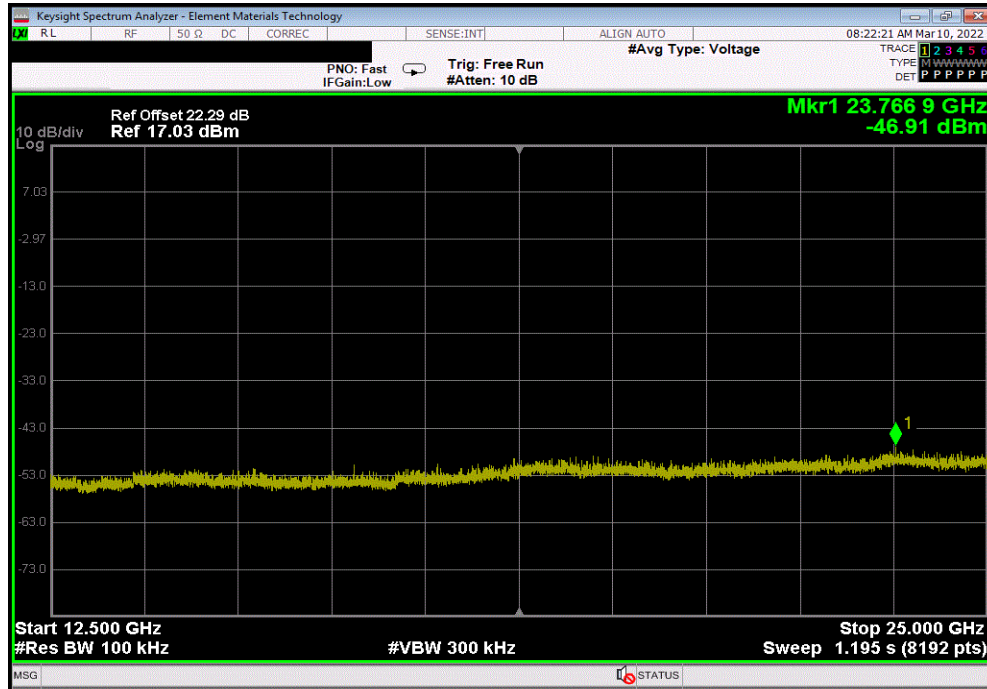


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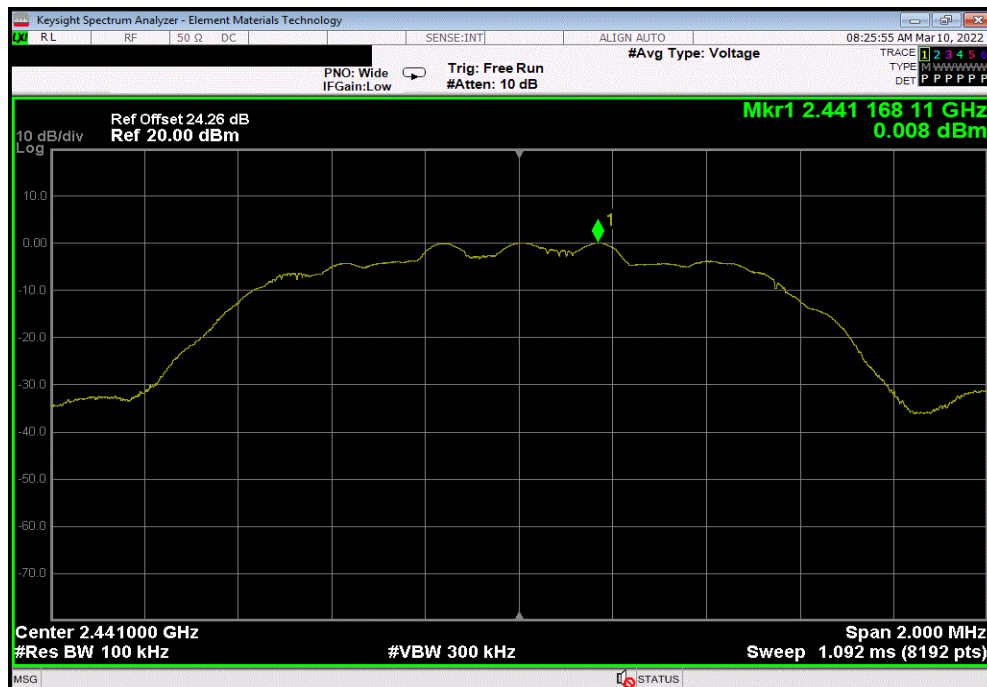


TbTtx 2021.12.14.1 XMt 2022.02.07.0

3DH5, 8-DPSK, Low Channel, 2402 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23766.94	-45.64	-20	Pass	



3DH5, 8-DPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2441.17	N/A	N/A	N/A	

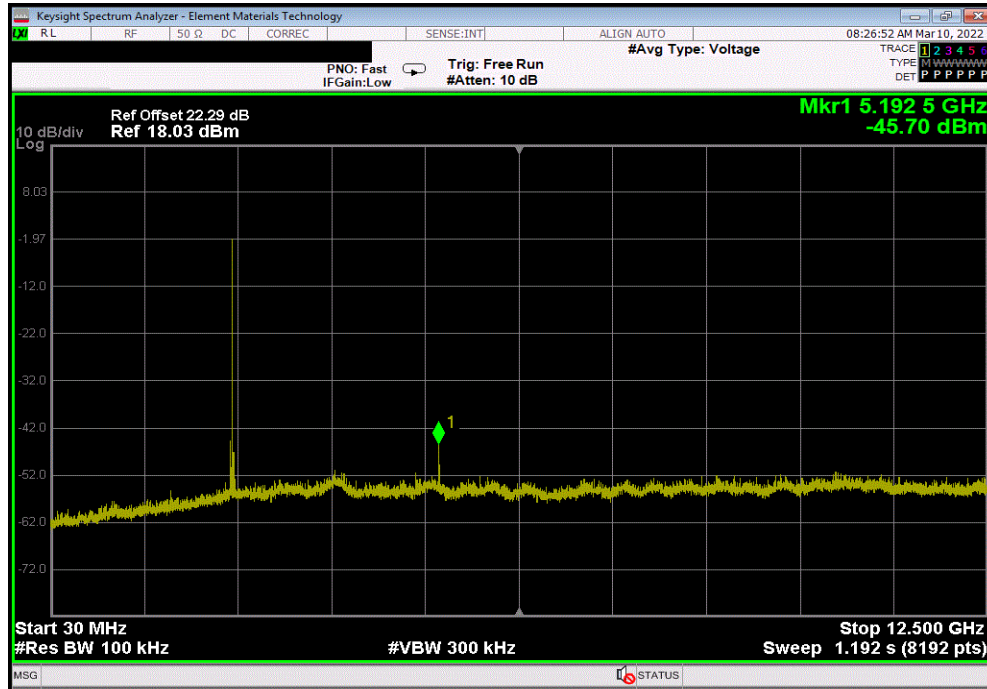


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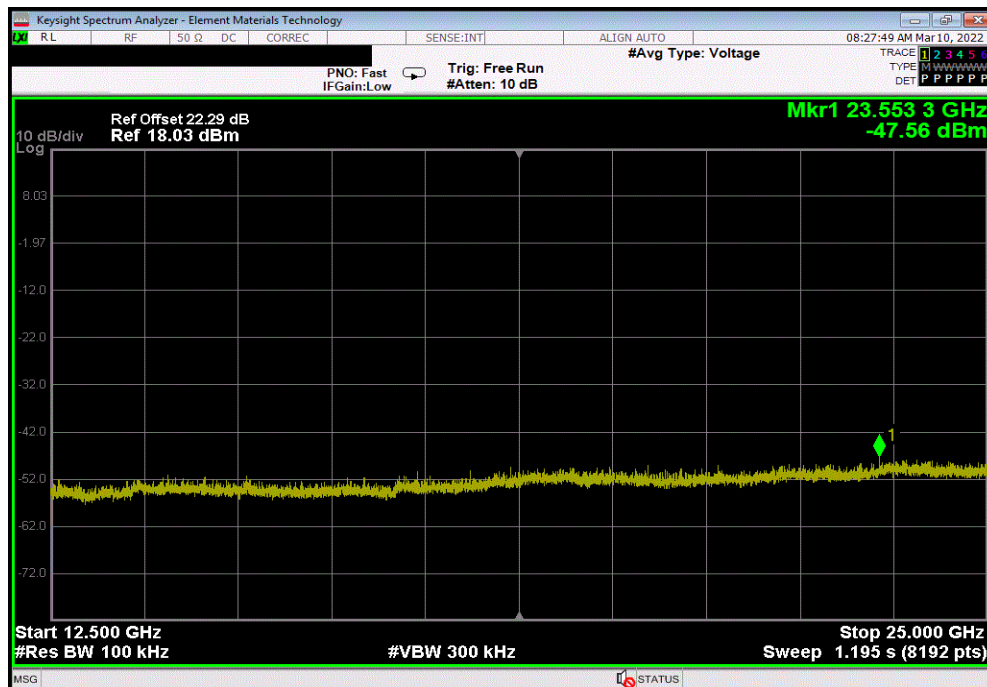


TbTtx 2021.12.14.1 XMt 2022.02.07.0

3DH5, 8-DPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	5192.47	-45.71	-20	Pass	



3DH5, 8-DPSK, Mid Channel, 2441 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23553.29	-47.57	-20	Pass	

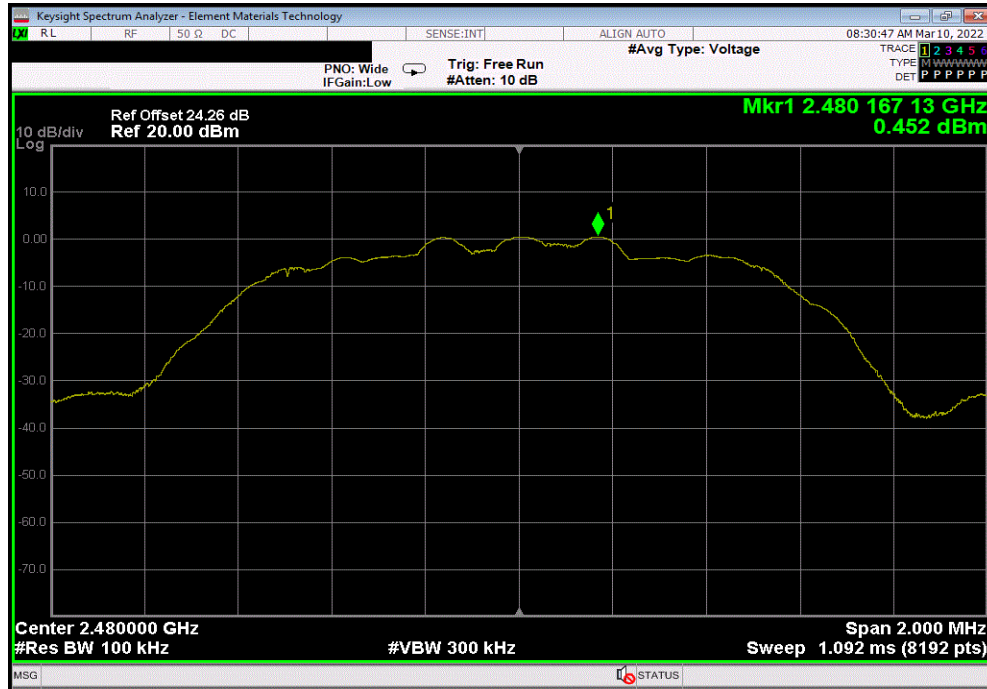


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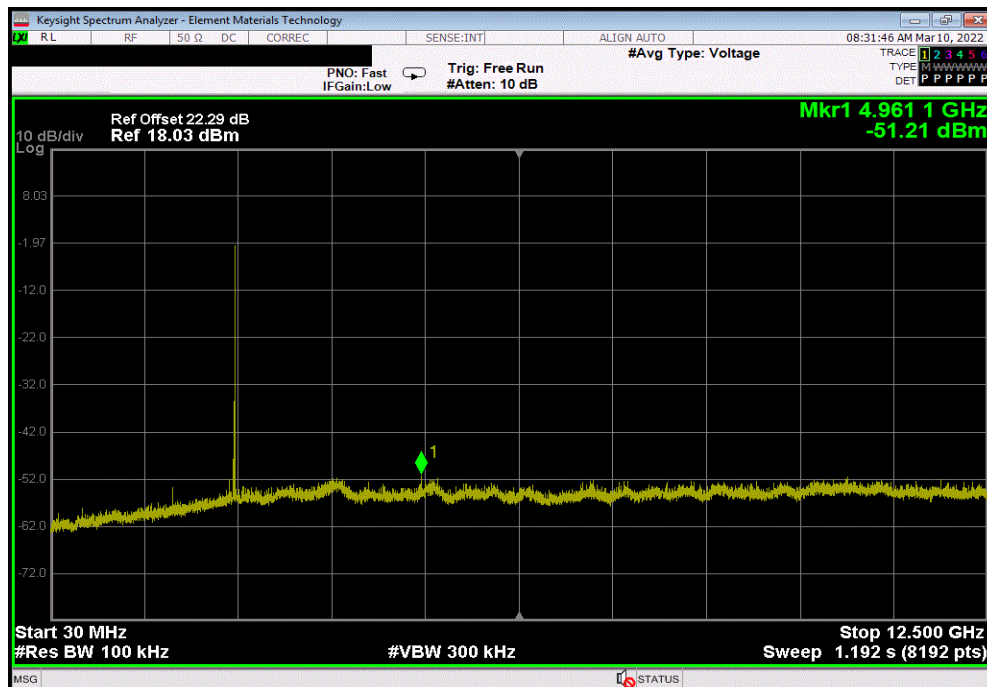


TbTtx 2021.12.14.1 XMt 2022.02.07.0

3DH5, 8-DPSK, High Channel, 2480 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2480.17	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	4961.06	-51.66	-20	Pass		

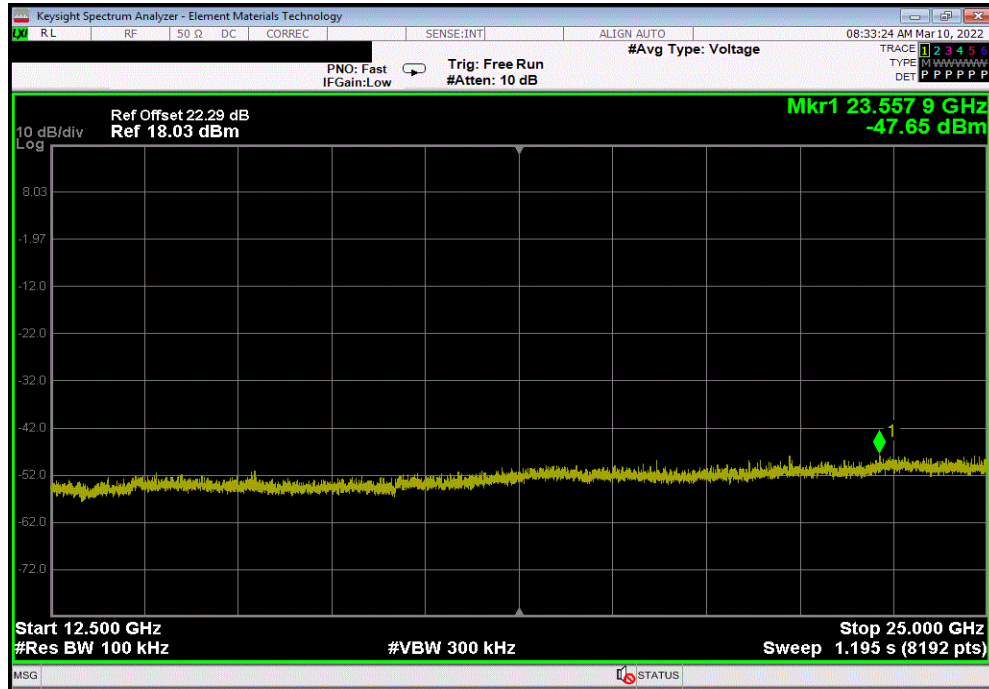


SPURIOUS CONDUCTED EMISSIONS



TbTx 2021.12.14.1 XMR 2022.02.07.0

3DH5, 8-DPSK, High Channel, 2480 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23557.87	-48.1	-20	Pass	



End of Test Report