DEKRA Testing and Certification, S.A.U.
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C.I.F. A29 507 456

DEKRA

ENAC ENSAYOS Nº 51/LE147

Test report No:
NIE: 61152RRF.008

Test Report

USA FCC Part 15.247, 15.209
CANADA RSS-247, RSS-Gen

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz.
Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.
General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Automotive Infotainment System
(*) Trademark	Mercedes-Benz
(*) Model and /or type reference	NTG7 MID LFT2
Other identification of the product	HW version: D5 SW version: E17.100 FCC ID: 2AOUZNTG7MIDLFT2 IC: 23650-NTG7MIDLFT2
(*) Features	FM/AM/DAB, USB, Bluetooth, WLAN, GNSS
Applicant	CONTINENTAL AUTOMOTIVE GMBH VDO-Strasse 1, 64832 Babenhausen, Germany
Test method requested, standard	USA FCC Part 15.247 (10-1-19) Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-19) Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (April 2018). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. Guidance for Emission Testing of Transmitters with Multiple Outputs in the Same Band 662911 D01 Multiple Transmitter Output v02r01 dated 10/31/2013. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Carlos Luque RF Lab. Supervisor 74841983Y JOSE CARLOS LUQUE (C:A29507456) Firmado digitalmente por 74841983Y JOSE CARLOS LUQUE (C:A29507456) Fecha: 2020.08.14 11:49:51 +02'00'
Date of issue	2020-08-12
Report template No	FDT08_22 (*) "Data provided by the client"

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Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").

2. The sample of NTG7 MID LFT2 is an automotive head unit to be installed in cars with the following features: FM/AM/DAB, USB, Bluetooth, WLAN and GNSS.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of result.

Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
61152E/076	Automotive Infotainment System	NTG7 MID LFT2	COM652LB000002	2020/04/14
61152E/073	Harness	--	--	2020/04/14

Auxiliary elements used with the Sample S/01:

Control Nº	Description	Model	Serial Nº	Date of reception
61152E/033	SMA Adapter Cable	--	--	2020/03/24

Sample S/01 has undergone the following test(s): All Conducted tests indicated in Appendixes A, B.

- Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
61152E/076	Automotive Infotainment System	NTG7 MID LFT2	COM652LB000002	2020/04/14
61152E/073	Harness	--	--	2020/04/14
60268/122	RF Cable with 4 Antennas	--	--	2019/09/30

Sample S/02 has undergone the following test(s): All Radiated tests indicated in Appendixes A, B.

Test sample description

Ports…… :	Port name and description	Cable			
		Specified max length [m]	Attached during test	Shielded	Coupled to patient(3)
	Car Connector A	>3m(x1)	☒	☐	☐
	Car Connector B	>3m(x1)	☒	☐	☐
	Display Connector CID/PIP / RVC	>3m(x1)	☒	☒	☐
	USB Connector	<3m(x2)	☒	☒	☐
	Eth Connector (BR)	>3m(x1)	☒	☐	☐

	BT/WLAN-Antenna	>3m(x1)	☒	☒	☐
	FM/AM/DAB Ant	>3m(x1)	☒	☒	☐
	GNSS Antenna	>3m(x1)	☒	☒	☐

Supplementary information to the ports…… :						
Rated power supply ……:	Voltage and Frequency		Reference poles			
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 12V Car battery / attenuator (9,5-15,5V normal operation)					
	☐	DC:					
Rated Power ……:	9,5-15,5V normal operation						
Clock frequencies ……:	see schematics						
Other parameters……:	See Technical Description						
Software version ……:	E17.100						
Hardware version……:	D5						
Dimensions in cm (W x H x D)….:	182 x 78 x 160 mm						
Mounting position……:	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other: automotive headunit					

Modules/parts ……:	Module/parts of test item	Type	Manufacturer
	n/a	-	
		-	
		-	
		-	
Accessories (not part of the test	Description	Type	Manufacturer

item) .....:	Display	-	LG.
	HARMANeco RasPi / headless	-	HBAS
	Cable harness	-	HBAS
	BT/WLAN-Antenna	-	Hirschmann
Documents as provided by the applicant.....:	Description	File name	Issue date
	Technical Description	Technical Description NTG7_A15 200324 SOP2 AllVariant.doc	

(3) Only for Medical Equipment

Identification of the client

CONTINENTAL AUTOMOTIVE GMBH

VDO-Strasse 1, 64832 Babenhausen, Germany

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2020-04-27
Date (finish)	2020-05-12

Document history

Report number	Date	Description
61152RRF.008	2020-08-12	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 35 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Miguel Manuel López, Javier Miguel Nadales, Nicolás Salguero, Cristina Calle and José Gabriel Pendón.

Used instrumentation:

Conducted Measurements:

		Last Calibration	Due Calibration
1.	Shielded Room ETS LINDGREN S101	N.A.	N.A.
2.	Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2020/03	2022/03
3.	DC Power Supply, 30V/5A KEYSIGHT TECHNOLOGIES U8002A	N.A.	N.A.
4.	Digital Multimeter FLUKE 179	2019/09	2020/09

Radiated Measurements:

		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2.	Shielded Room ETS LINDGREN S101	N.A.	N.A.
3.	Hybrid Biconical/Log Antenna SUNOL SCIENCES CORPORATION JB6	2017/09	2020/09
4.	Pre-Amplifier G>40dB 10MHz-6GHz, BONN ELEKTRONIK, BLNA 0160-01N	2020/02	2021/02
5.	EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7	2019/10	2021/10
6.	DC Power Supply, 30V/5A KEYSIGHT TECHNOLOGIES U8002A	N.A.	N.A.
7.	Digital Multimeter FLUKE 175	2019/10	2020/10
8.	Horn Antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2019/11	2022/11
9.	Broadband Horn Antenna 18 - 40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170	2018/07	2021/07
10.	RF Pre-amplifier, 40 dB ,1-18 GHz BONN ELEKTRONIK BLMA 0118-1M	2020/05	2021/05
11.	Low Noise Amplifier G>30dB, 18 - 40 GHz BONN ELEKTRONIK BLMA 1840-1M	2019/02	2021/02
12.	Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2019/09	2021/09

Testing verdicts

Not applicable:	N/A
Pass:	P
Fail:	F
Not measured:	N/M

Summary

1. Bluetooth EDR

FCC PART 15 PARAGRAPH / RSS-247			
Requirement – Test case		**Verdict**	**Remark**
15.247 (a) (1) / RSS-247 5.1. (b)	20 dB Bandwidth and Carrier frequency separation	P	
15.247 (a)(1)(iii) / RSS-247 Clause 5.1 (d)	Number of hopping channels	P	
15.247 (a)(1)(iii) / RSS-247 Clause 5.1 (d)	Time of occupancy (Dwell Time)	P	
15.247 (b) / RSS-247 5.4. (b)	Maximum peak output power and antenna gain	P	
15.247 (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	P	
15.247 (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	
Supplementary information and remarks: None.			

2. WLAN 2.4 GHz (802.11 b/g/n20 2x2).

FCC PART 15 PARAGRAPH / RSS-247			
Requirement – Test case		**Verdict**	**Remark**
15.247 (a) (2) / RSS-247 5.2. (a)	6 dB Bandwidth	P	
15.247 (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain	P	
15.247 (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	P	
15.247 (e) / RSS-247 5.2. (b)	Power spectral density	P	
15.247 (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	
Supplementary information and remarks: None.			

Appendix A: Test results. Bluetooth EDR (GFSK, Pi/4-DQPSK, 8DPSK)

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FCC 15.247 (a)(1)(iii) / RSS-247 5.1 (d) Time of occupancy (Dwell Time) 29
FCC 15.247 (b) / RSS-247 5.4 (b) Maximum peak output power and antenna gain 35
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FCC 15.247 (d) / RSS-247 5.5. Emission limitations radiated. (Transmitter) 48

TEST CONDITIONS

POWER SUPPLY (V):

V nonimal:	12 Vdc.
Type of Power Supply:	External power supply (Car Battery).
Type of Antenna:	External antenna.
Maximum Declared Antenna Gain:	+1.8 dBi (Antenna gain plus antenna cable loss).

TEST FREQUENCIES:

Low Channel:	2402 MHz
Middle Channel:	2441 MHz
High Channel:	2480 MHz

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the spectrum analyser using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.

The DC supply voltage is applied using an external calibrated power supply with a multimeter.

RADIATED MEASUREMENTS:

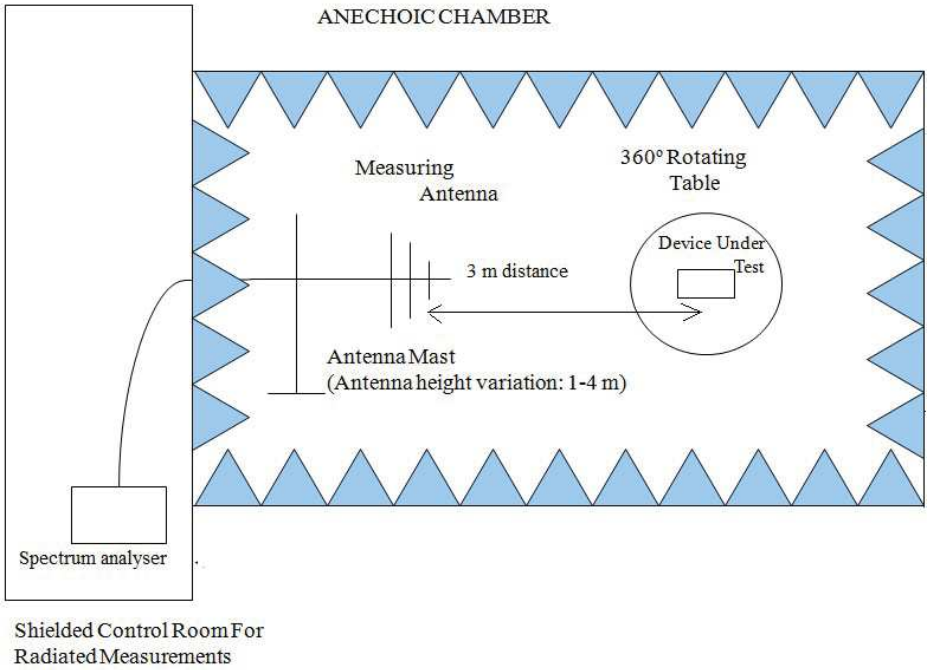
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1 GHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1m for the frequency range 17 GHz-26 GHz (17 GHz-26 GHz horn antenna).

For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

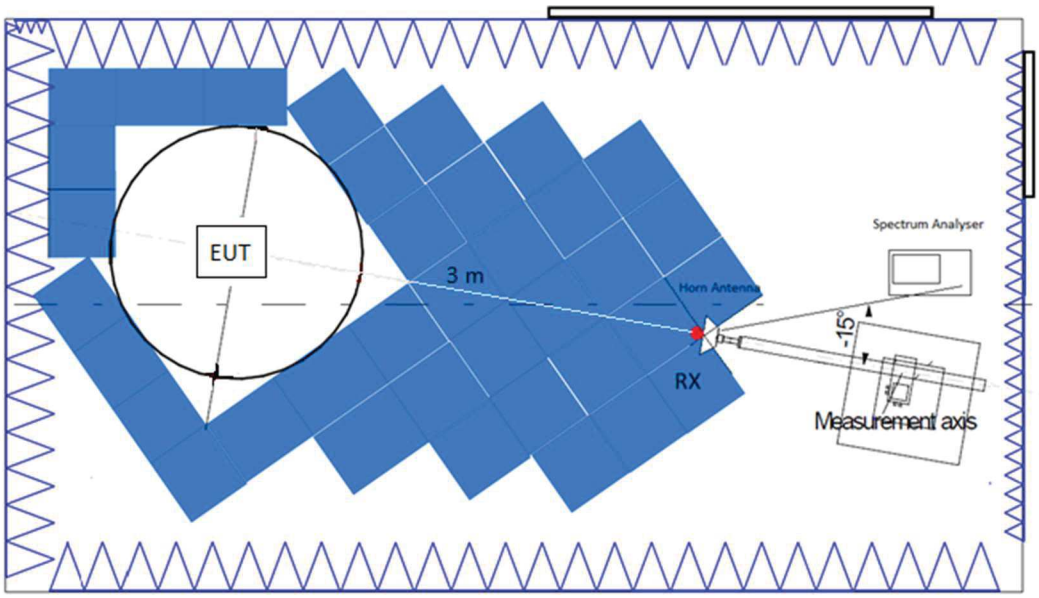
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

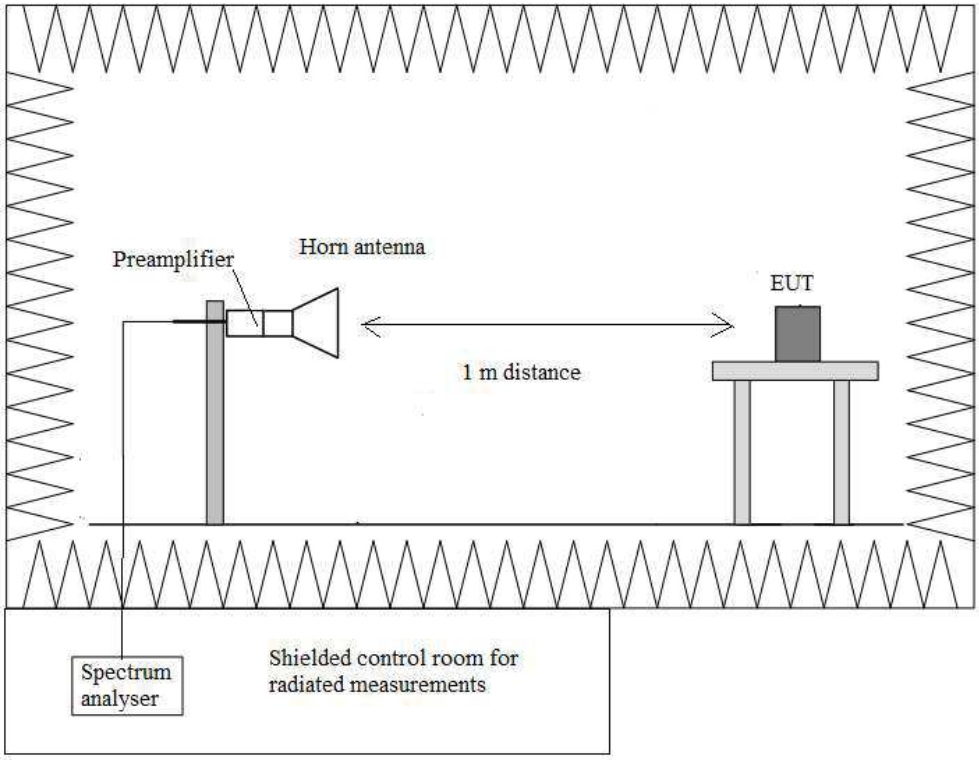
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup f > 17 GHz:



FCC 15.247 (a) (1) / RSS-247 5.1. (b) 20 dB Bandwidth and Carrier frequency separation

SPECIFICATION:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

RESULTS:

- **GFSK**

	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
20 dB Spectrum Bandwidth (kHz)	943	943	944
99% Bandwidth (kHz)	886	887	886
Measurement uncertainty (kHz)	<±4.04		

- **Pi/4 DQPSK**

	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
20 dB Spectrum Bandwidth (kHz)	1356	1361	1357
99% Bandwidth (kHz)	1209	1208	1209
Measurement uncertainty (kHz)	<±4.04		

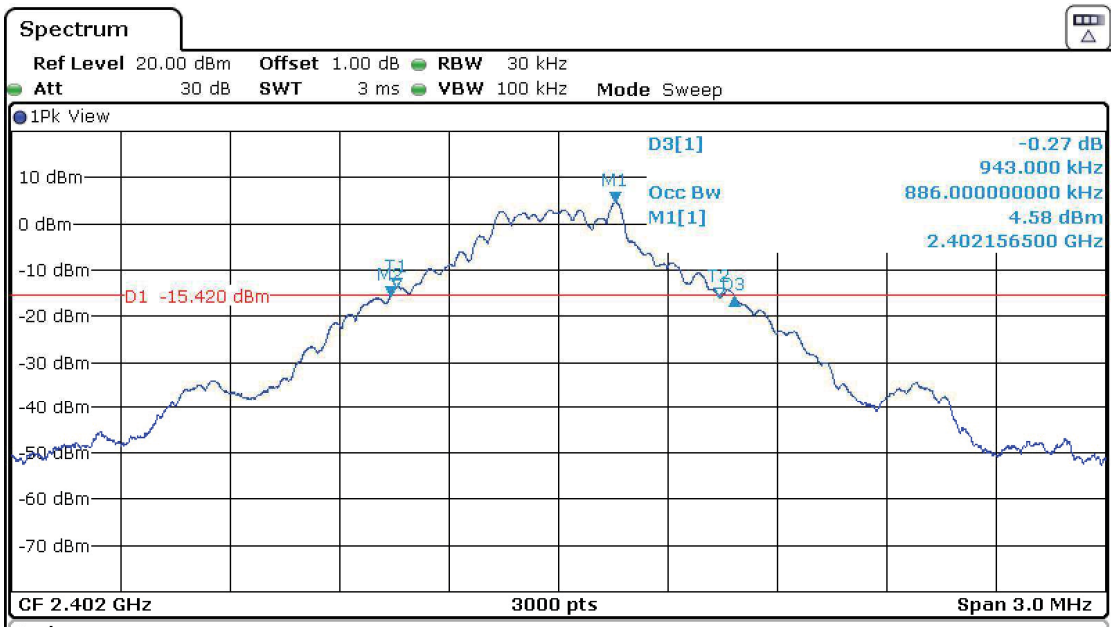
- **8DPSK**

	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
20 dB Spectrum Bandwidth (kHz)	1326	1323	1325
99% Bandwidth (kHz)	1202	1203	1204
Measurement uncertainty (kHz)	<±4.04		

Verdict: PASS

- **GFSK – Bandwidths**

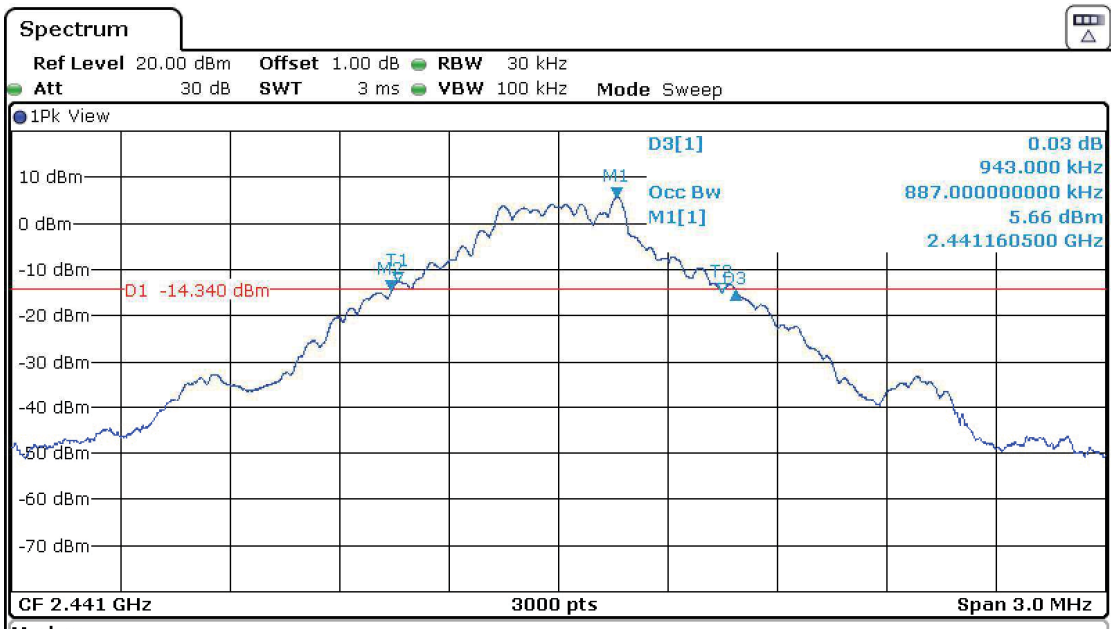
- Low Channel:



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4021565 GHz	4.58 dBm		
T1		1	2.4015555 GHz	-13.82 dBm	Occ Bw	886.0 kHz
T2		1	2.4024415 GHz	-16.08 dBm		
M2		1	2.401539 GHz	-15.60 dBm		
D3	M2	1	943.0 kHz	-0.27 dB		

- Middle Channel:



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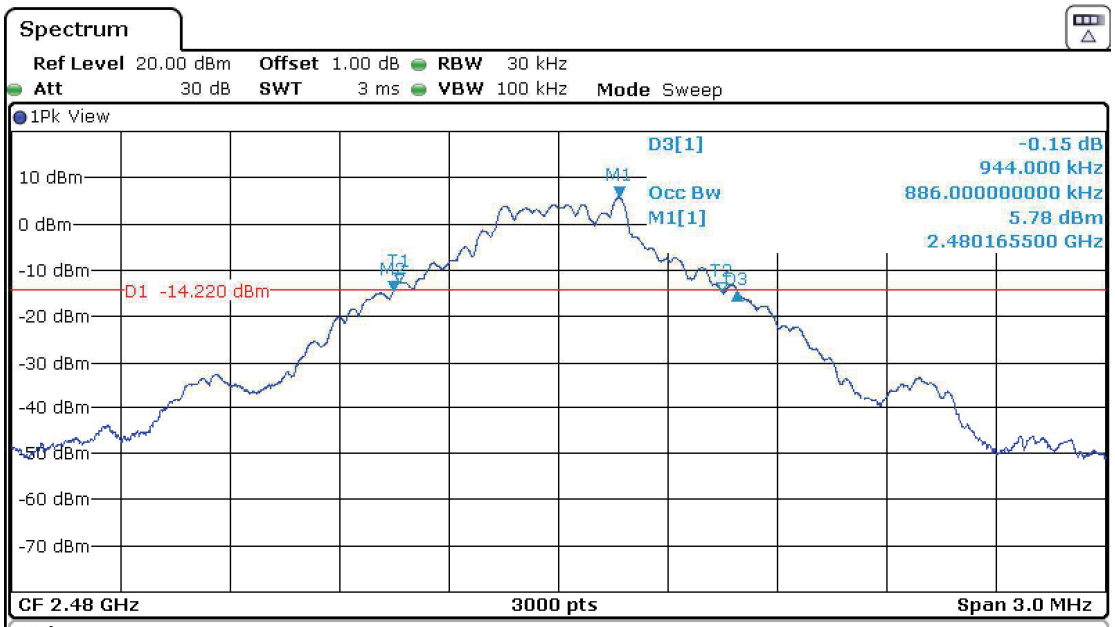
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4411605 GHz	5.66 dBm		
T1		1	2.4405595 GHz	-12.78 dBm	Occ Bw	887.0 kHz
T2		1	2.4414465 GHz	-15.06 dBm		
M2		1	2.4405425 GHz	-14.60 dBm		
D3	M2	1	943.0 kHz	0.03 dB		

- High Channel:



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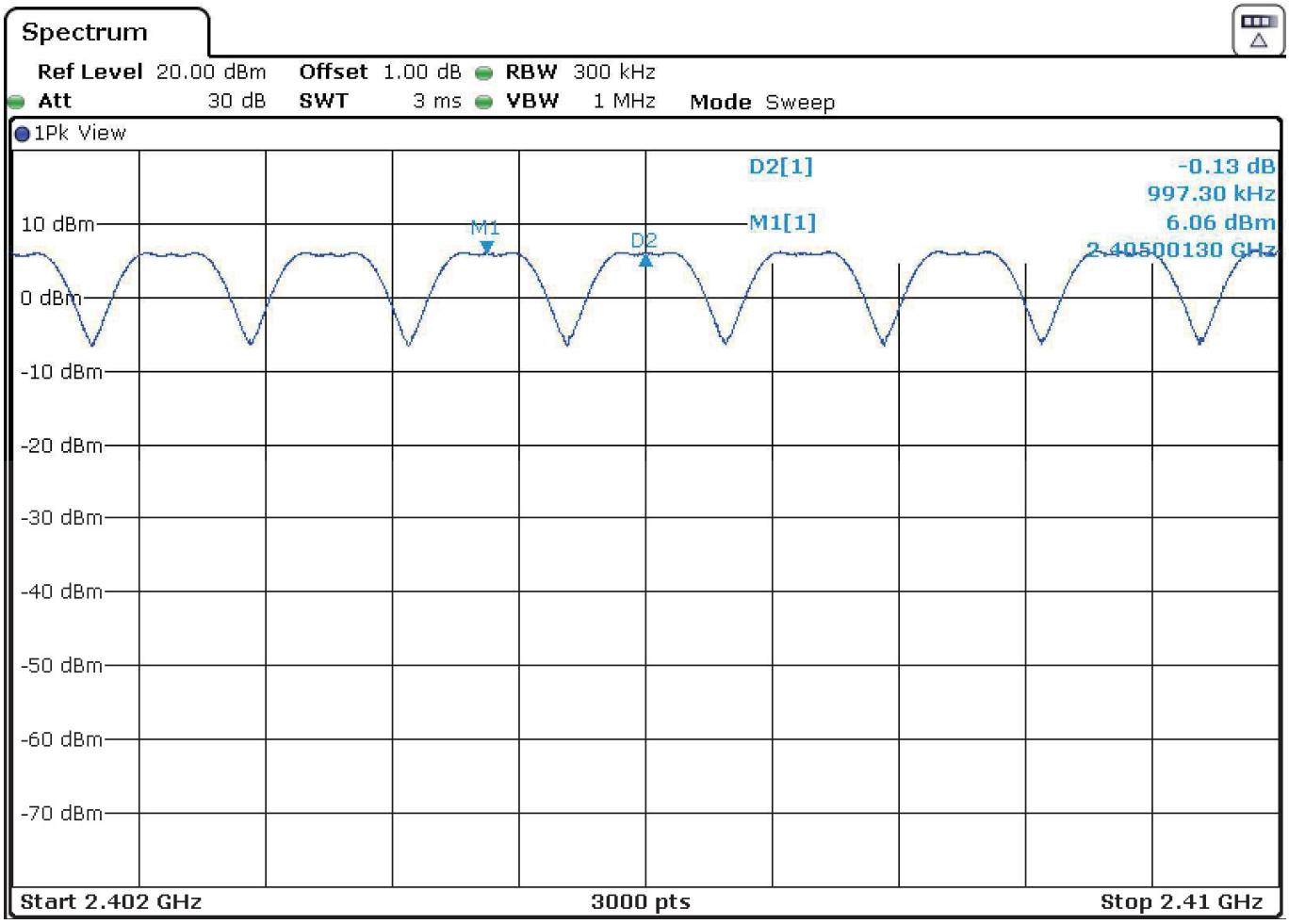
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4801655 GHz	5.78 dBm		
T1		1	2.4795635 GHz	-12.70 dBm	Occ Bw	886.0 kHz
T2		1	2.4804495 GHz	-14.83 dBm		
M2		1	2.4795475 GHz	-14.46 dBm		
D3	M2	1	944.0 kHz	-0.15 dB		

Carrier frequency separation - GFSK

Carrier frequency separation: 997.3 kHz

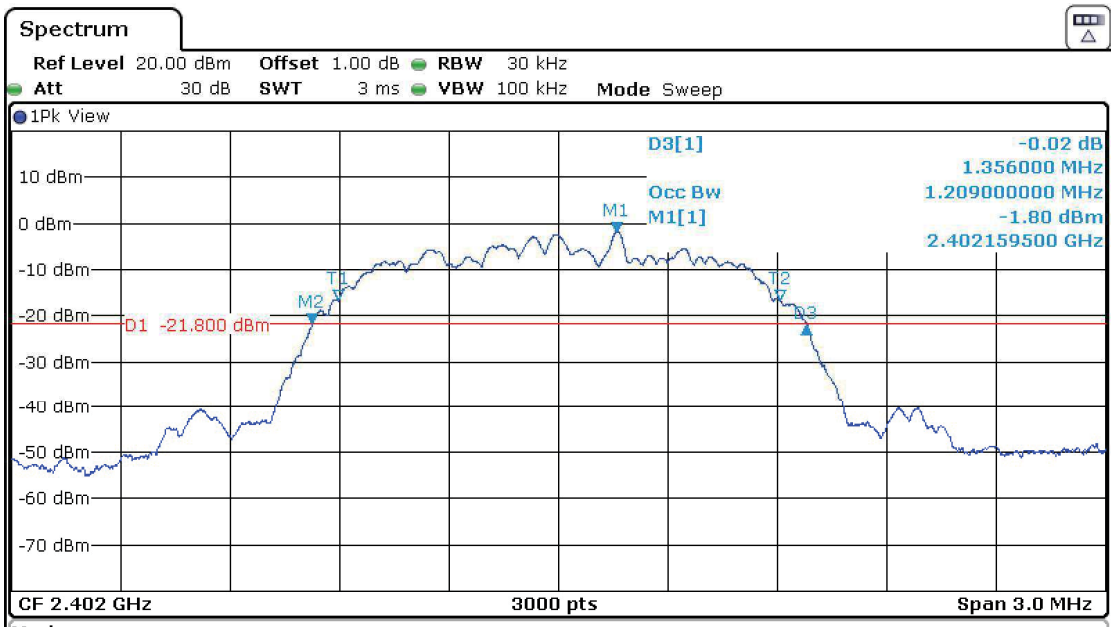


The hopping channel carrier frequencies are separated by a minimum two-thirds of the 20 dB bandwidth of the hopping channel.

Verdict: PASS

- **Pi/4 DQPSK – Bandwidths**

- Low Channel:



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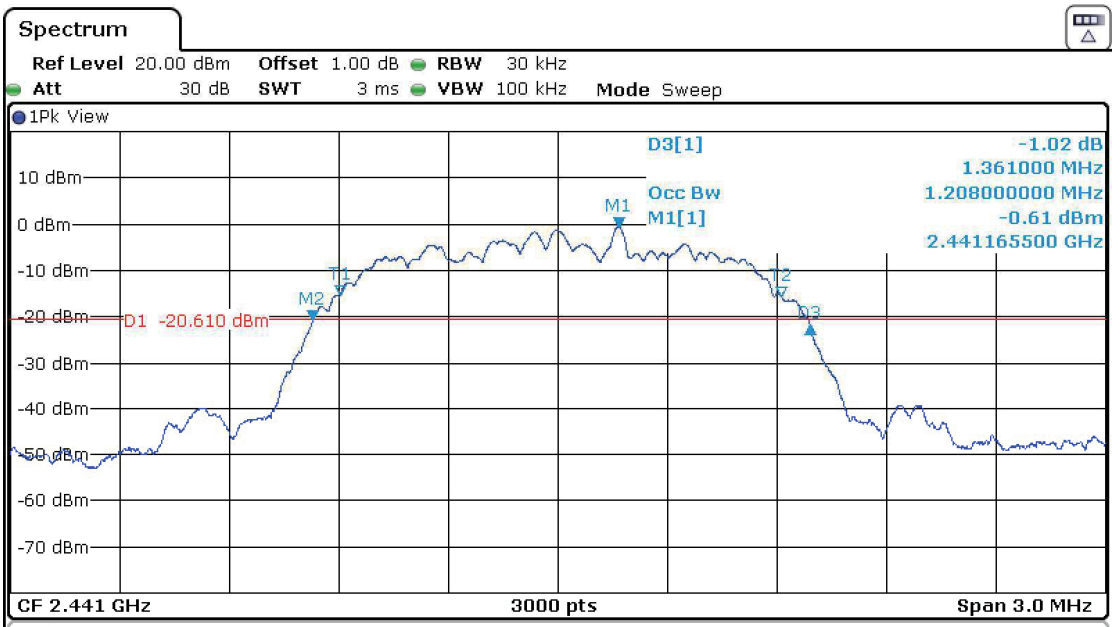
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4021595 GHz	-1.80 dBm		
T1		1	2.4013975 GHz	-16.70 dBm	Occ Bw	1.209 MHz
T2		1	2.4026065 GHz	-16.74 dBm		
M2		1	2.401324 GHz	-21.88 dBm		
D3	M2	1	1.356 MHz	-0.02 dB		

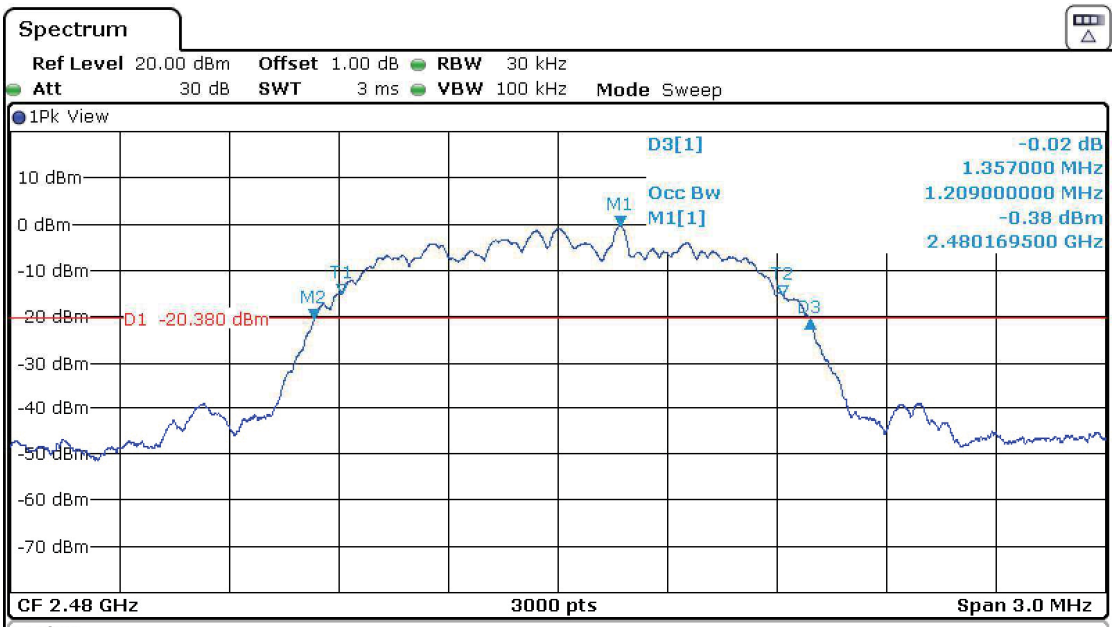
- Middle Channel:



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4411655 GHz	-0.61 dBm		
T1		1	2.4404025 GHz	-15.51 dBm	Occ Bw	1.208 MHz
T2		1	2.4416105 GHz	-15.61 dBm		
M2		1	2.4403285 GHz	-20.79 dBm		
D3	M2	1	1.361 MHz	-1.02 dB		

- High Channel:

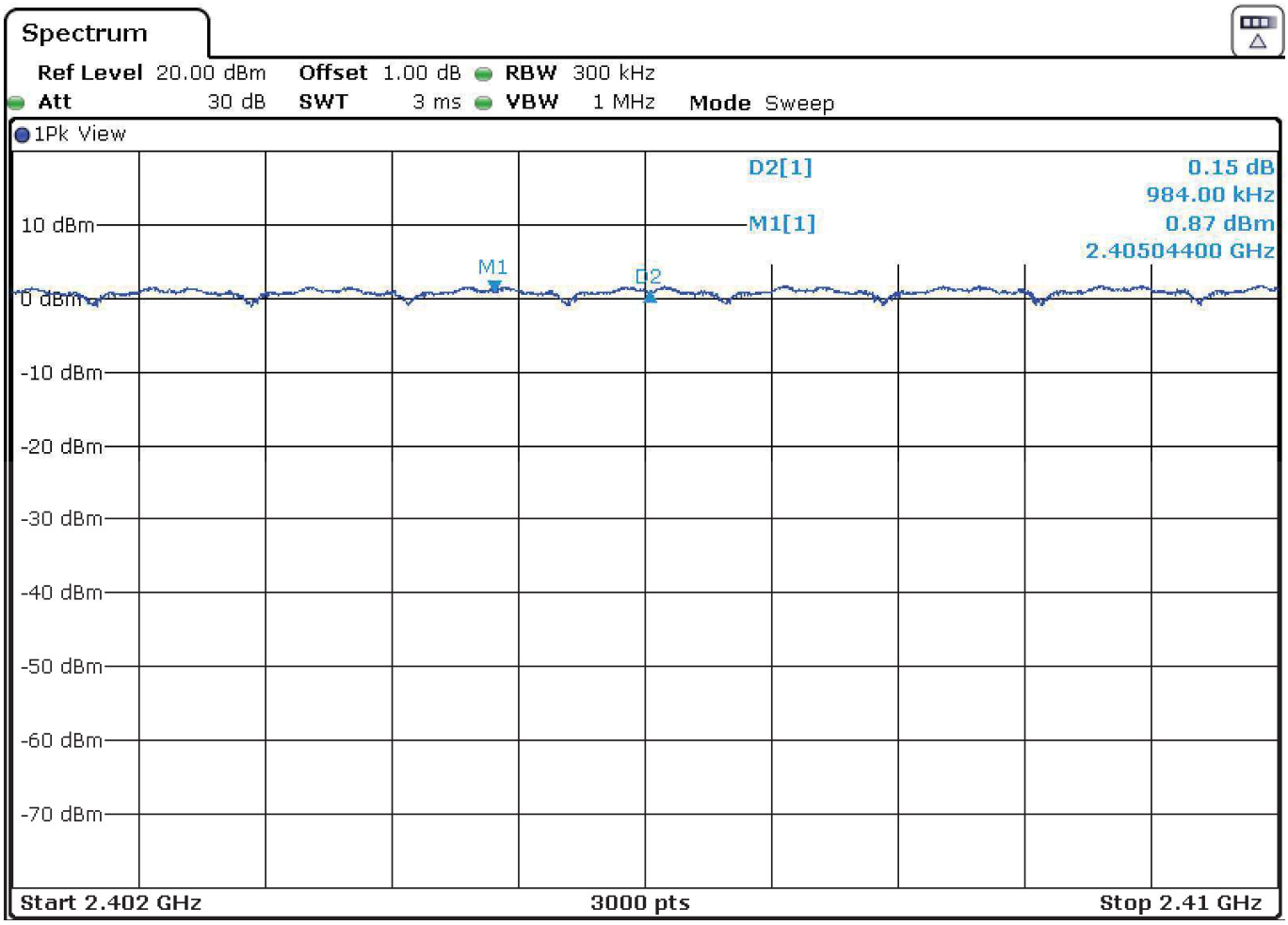


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4801695 GHz	-0.38 dBm		
T1		1	2.4794065 GHz	-15.25 dBm	Occ Bw	1.209 MHz
T2		1	2.4806155 GHz	-15.33 dBm		
M2		1	2.4793325 GHz	-20.57 dBm		
D3	M2	1	1.357 MHz	-0.02 dB		

Carrier frequency separation - Pi/4 DQPSK

Carrier frequency separation: 984 kHz

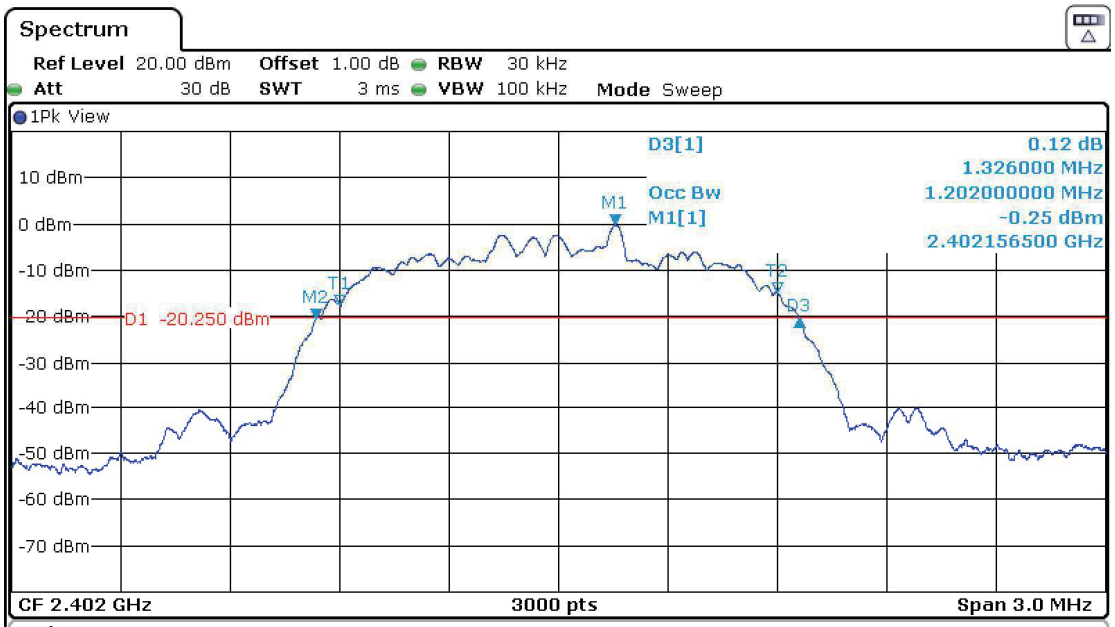


The hopping channel carrier frequencies are separated by a minimum two-thirds of the 20 dB bandwidth of the hopping channel.

Verdict: PASS

- **8DPSK – Bandwidths**

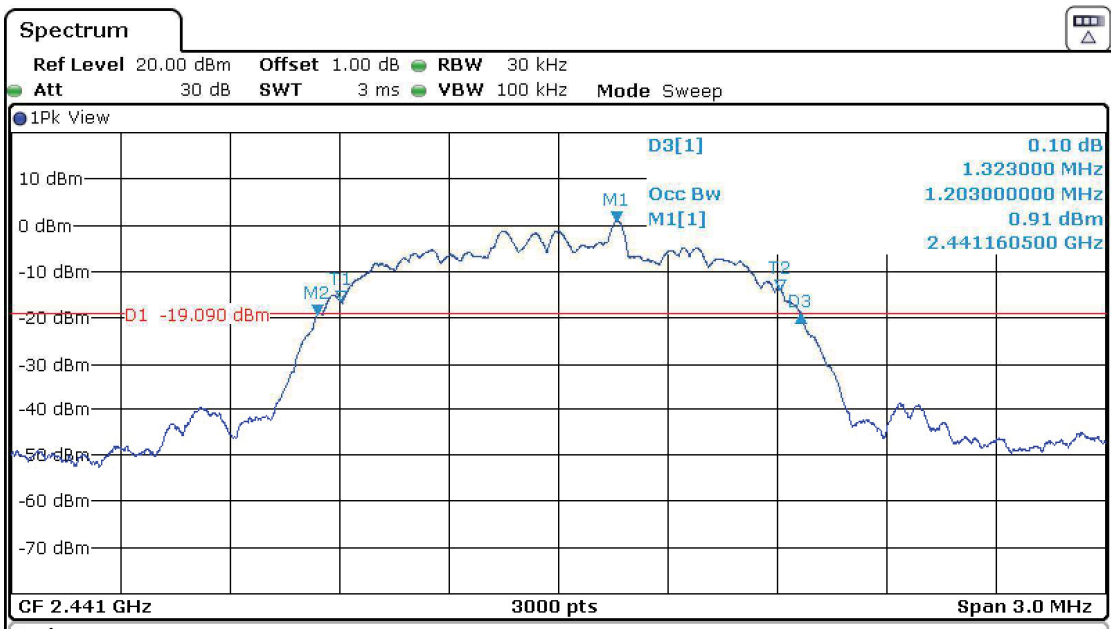
- Low Channel:



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4021565 GHz	-0.25 dBm		
T1		1	2.4013985 GHz	-17.49 dBm	Occ Bw	1.202 MHz
T2		1	2.4026005 GHz	-14.95 dBm		
M2		1	2.4013355 GHz	-20.49 dBm		
D3	M2	1	1.326 MHz	0.12 dB		

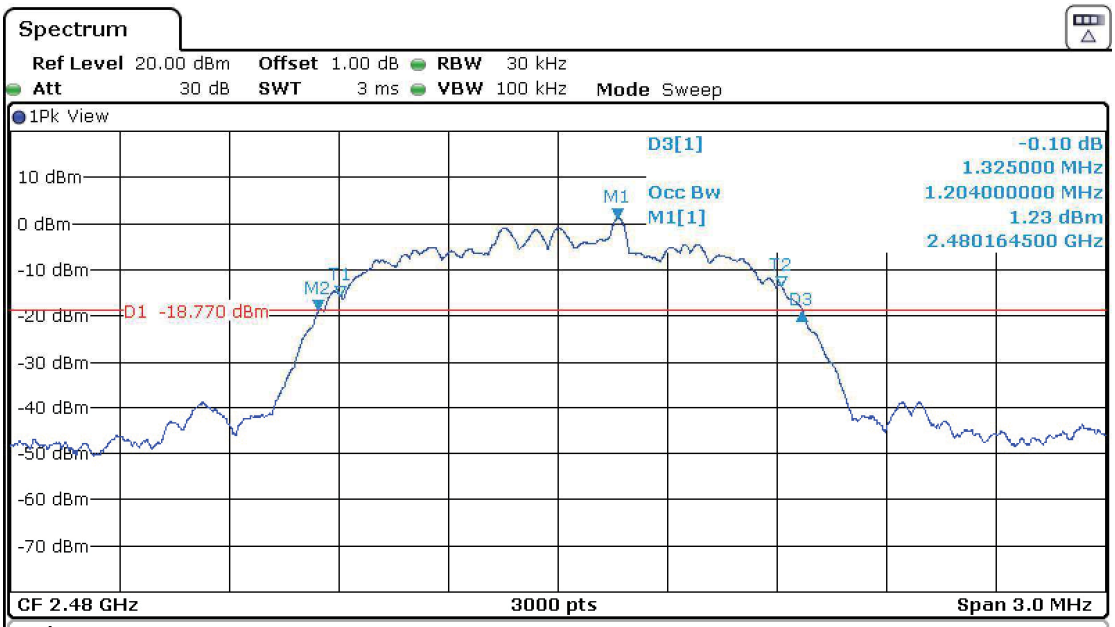
- Middle Channel:



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4411605 GHz	0.91 dBm		
T1		1	2.4404025 GHz	-16.36 dBm	Occ Bw	1.203 MHz
T2		1	2.4416055 GHz	-13.88 dBm		
M2		1	2.4403405 GHz	-19.21 dBm		
D3	M2	1	1.323 MHz	0.10 dB		

- High Channel:

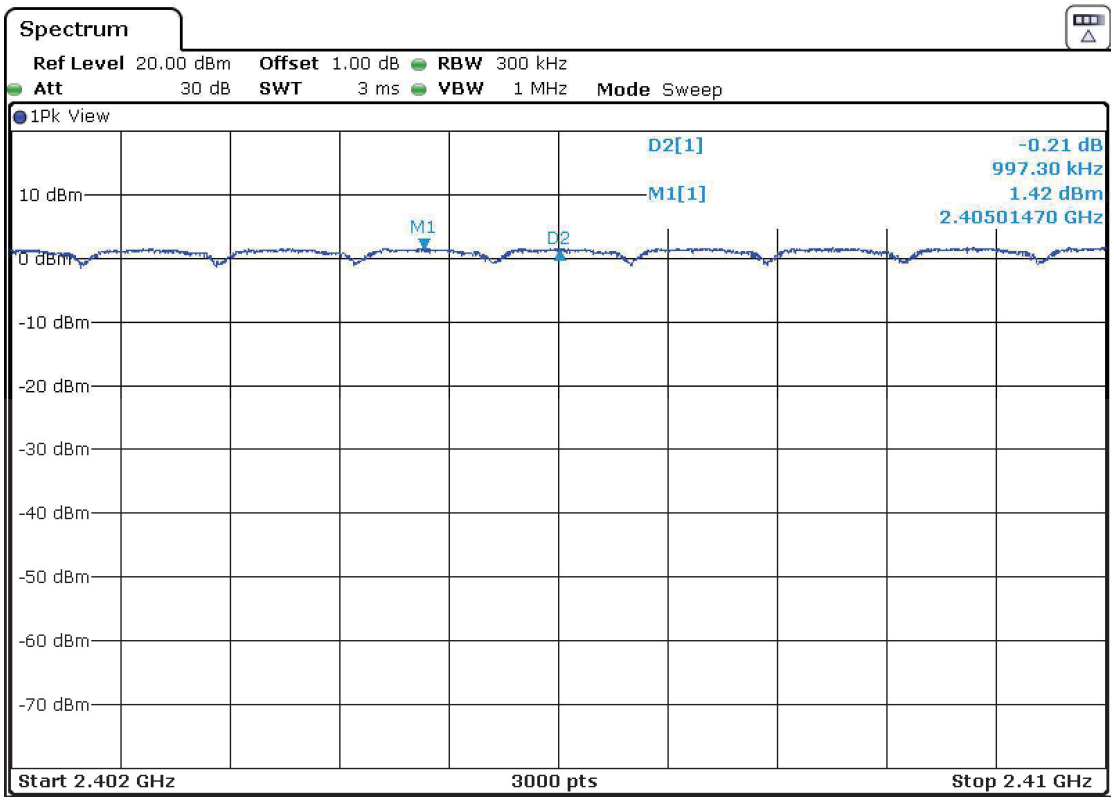


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4801645 GHz	1.23 dBm		
T1		1	2.4794055 GHz	-15.80 dBm	Occ Bw	1.204 MHz
T2		1	2.4806095 GHz	-13.52 dBm		
M2		1	2.4793445 GHz	-18.81 dBm		
D3	M2	1	1.325 MHz	-0.10 dB		

Carrier frequency separation - 8DPSK

Carrier frequency separation: 997.3 kHz



The hopping channel carrier frequencies are separated by a minimum two-thirds of the 20 dB bandwidth of the hopping channel.

Verdict: PASS

FCC 15.247 (a)(1)(iii) / RSS-247 5.1 (d) Number of hopping channels

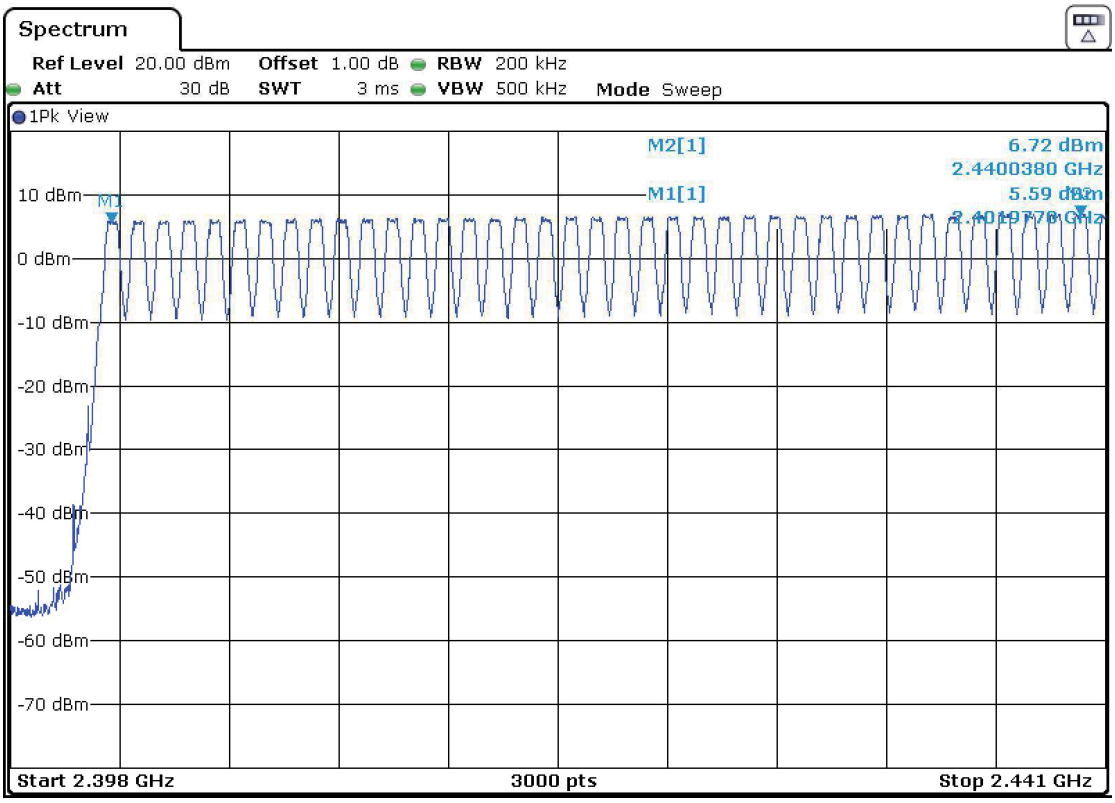
SPECIFICATION:

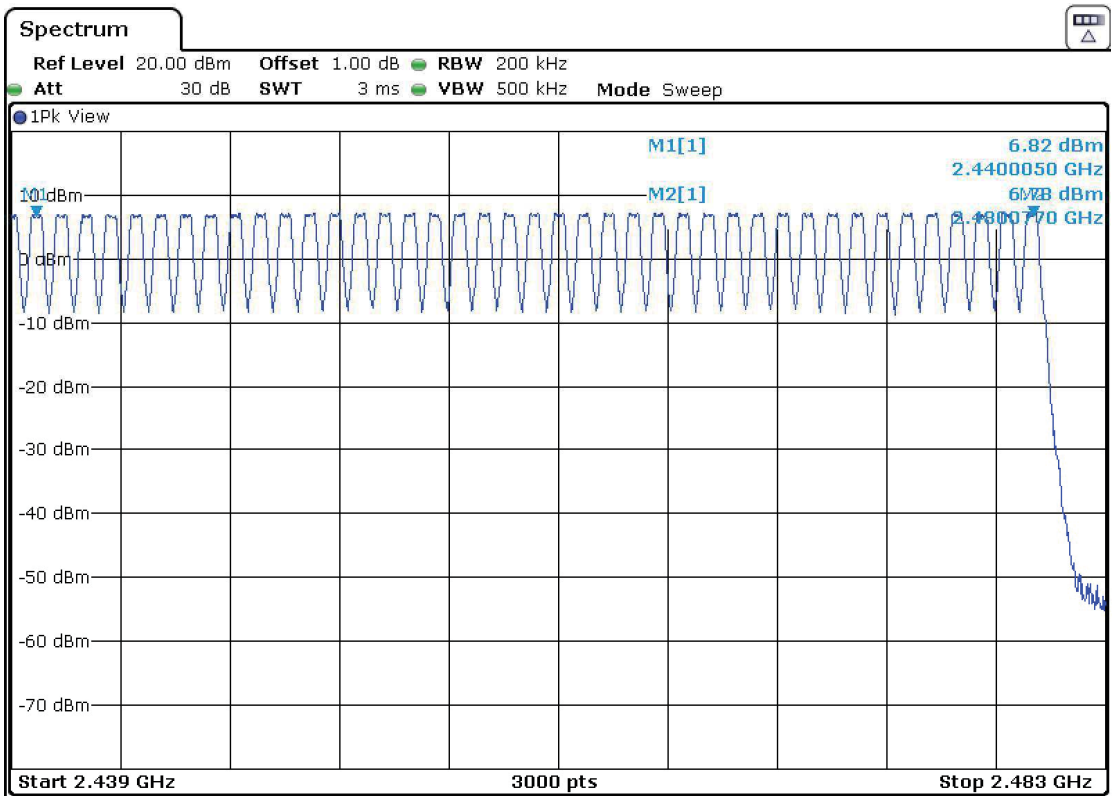
Frequency hopping system in the 2400-2483.5 MHz band shall use at least 15 channels.

RESULTS:

The number of hopping channels is 79 for all three modes.

- **GFSK – Number of hopping channels**

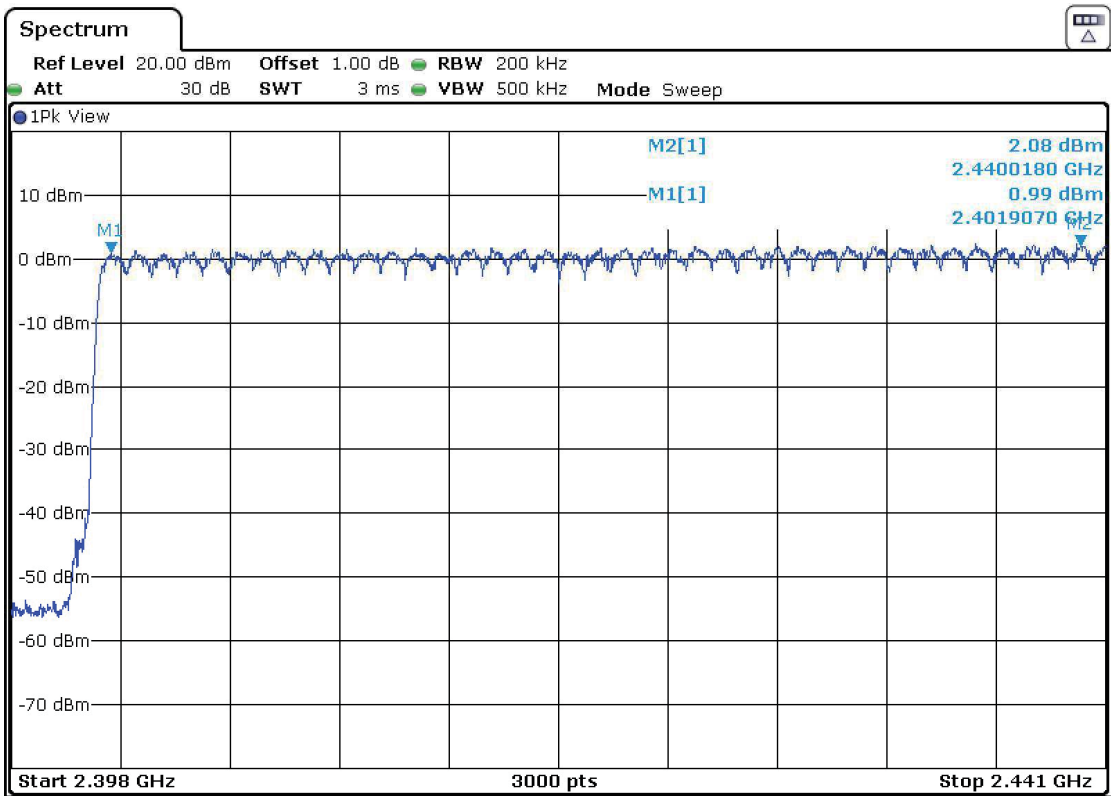


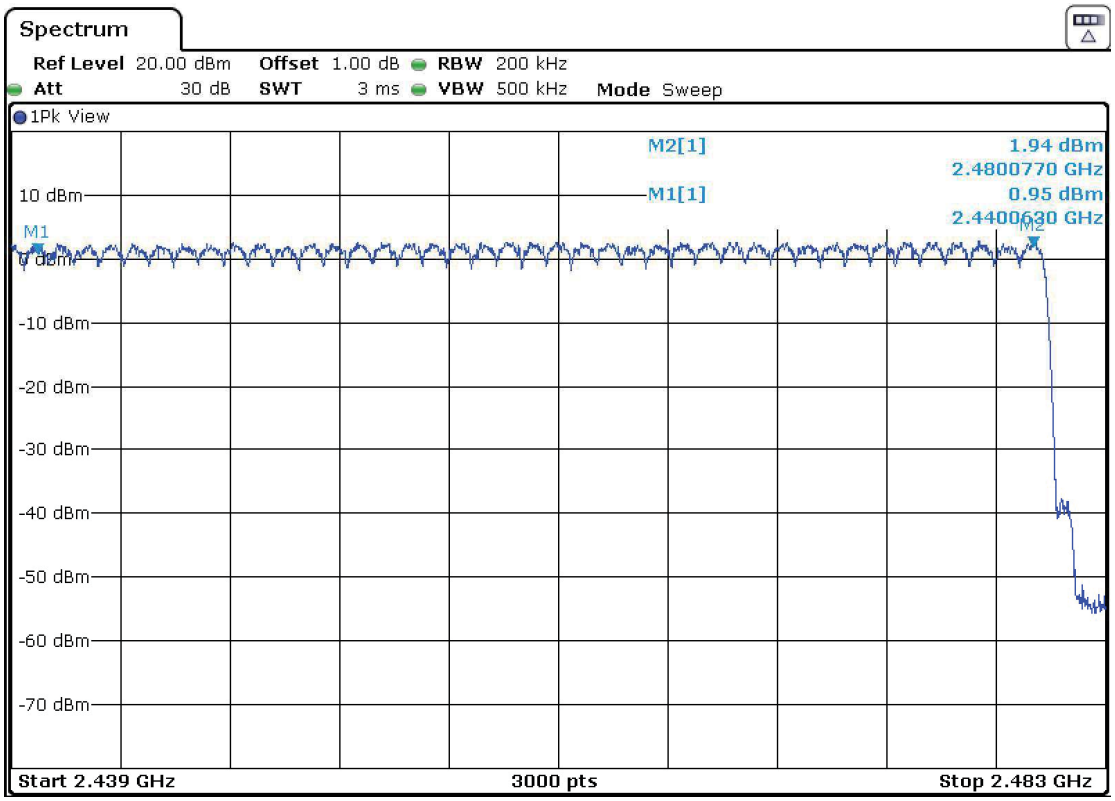


Total number of hopping channels: 79

Verdict: PASS

- **Pi/4 DQPSK – Number of hopping channels**

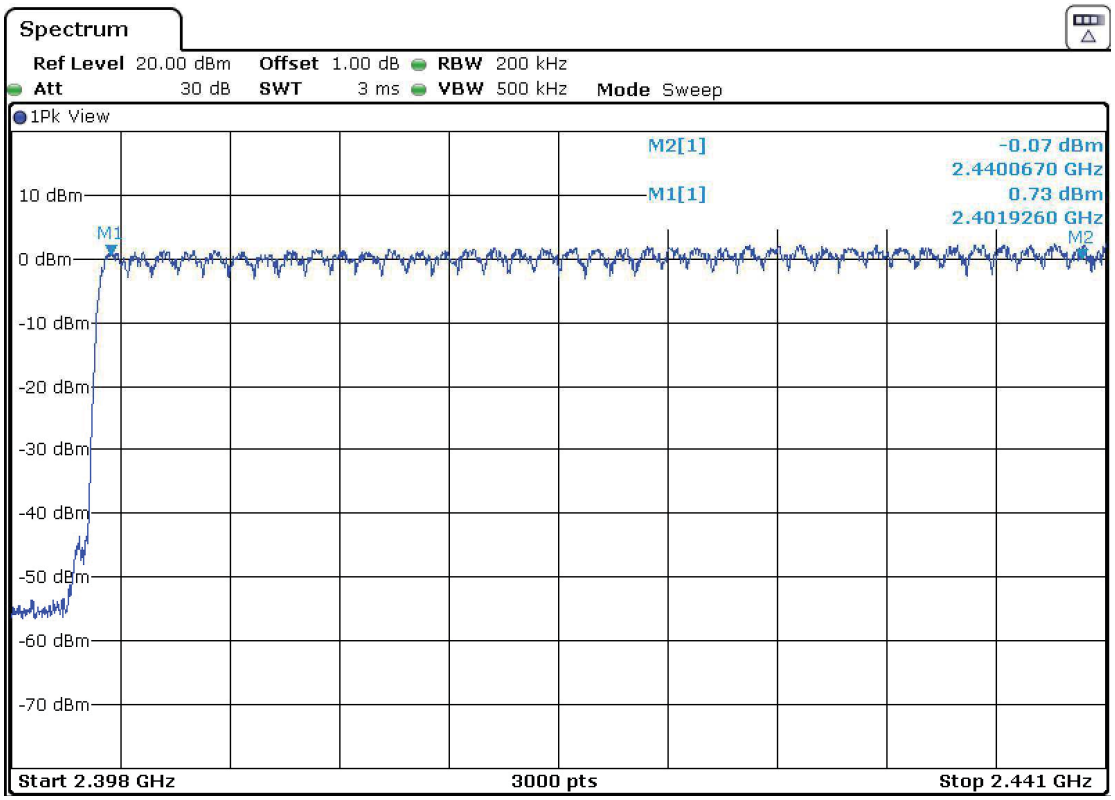


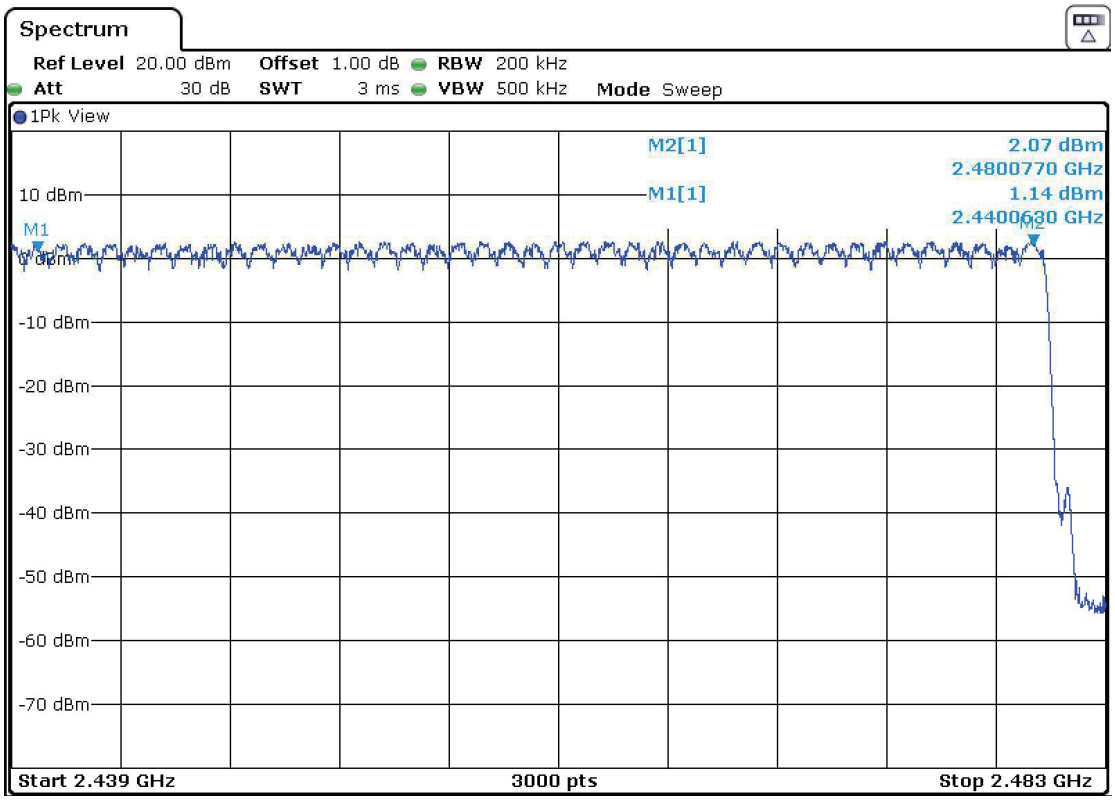


Total number of hopping channels: 79

Verdict: PASS

- **8DPSK – Number of hopping channels**





Total number of hopping channels: 79

Verdict: PASS

FCC 15.247 (a)(1)(iii) / RSS-247 5.1 (d) Time of occupancy (Dwell Time)

SPECIFICATION:

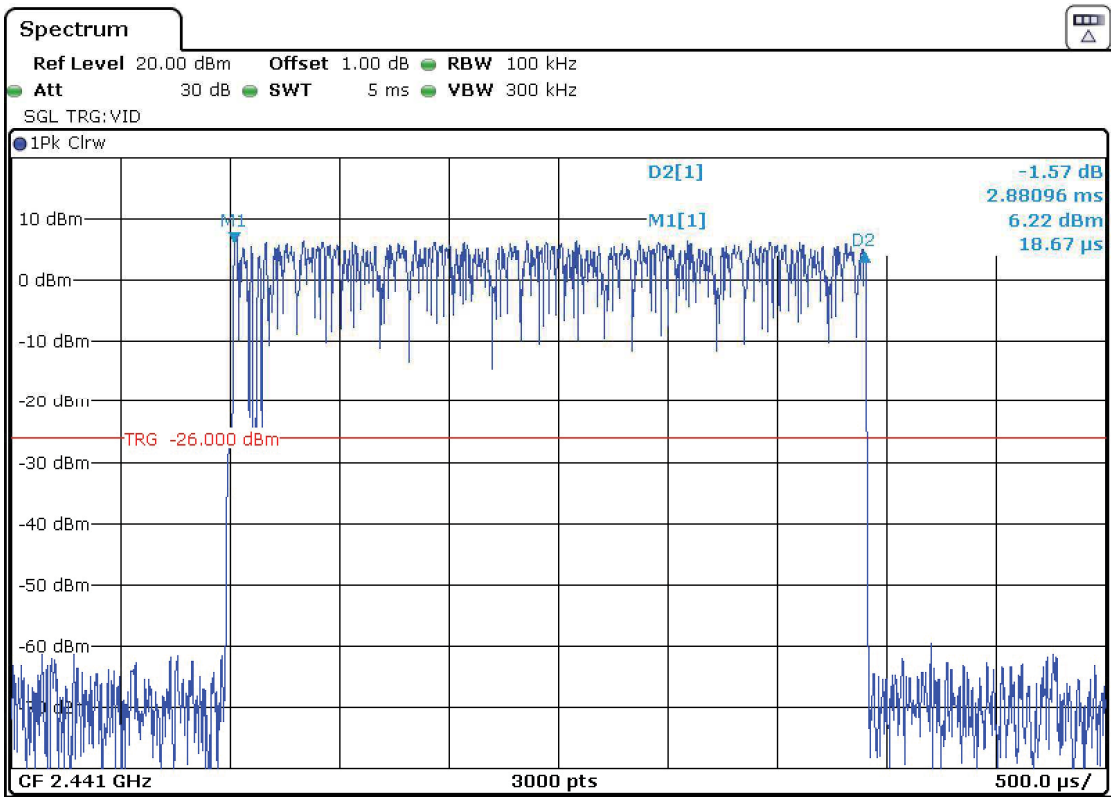
The average time of occupancy on any channel shall not be greater than 0.4 seconds (400 ms) within a period of 0.4 seconds multiplied by the number of hopping channels employed = 0.4 x 79= 31.6 seconds.

RESULTS:

- **GFSK (packet type DH5) – Time of Occupancy (Dwell Time)**

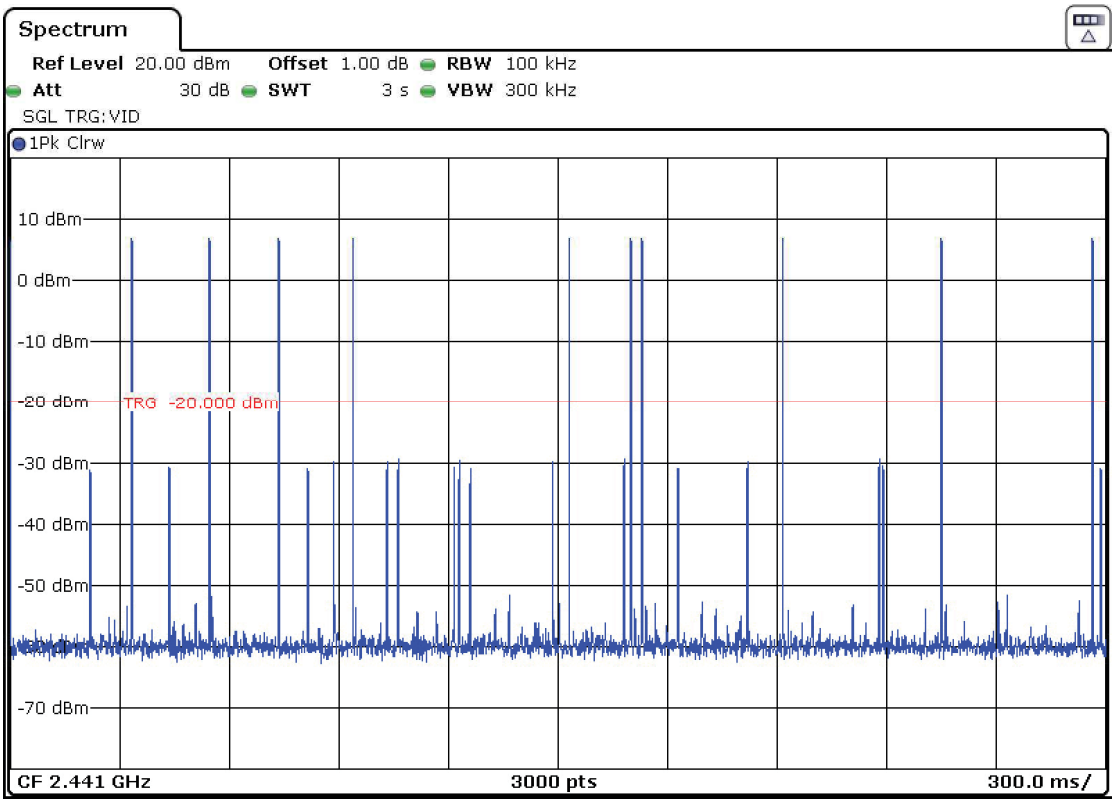
  - Transmit Time per Hop:

2.88096	ms



- Time of Occupancy:

Nº of hops on spectrum analyzer	10	
Nº of hops over the period	105.3333333	
Average Time of Occupancy	303.46112	ms



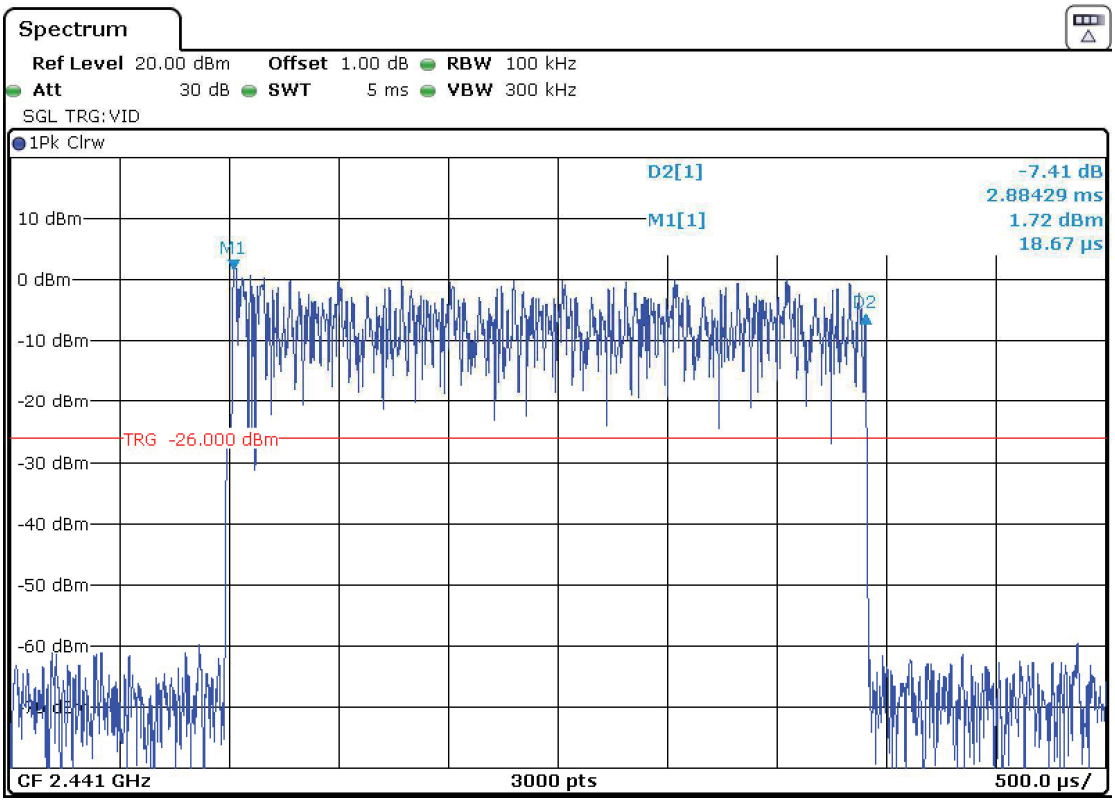
Measurement uncertainty (%)	<±0.12

Verdict: PASS

- **Pi/4 DQPSK (packet type 2DH5) – Time of Occupancy (Dwell Time)**

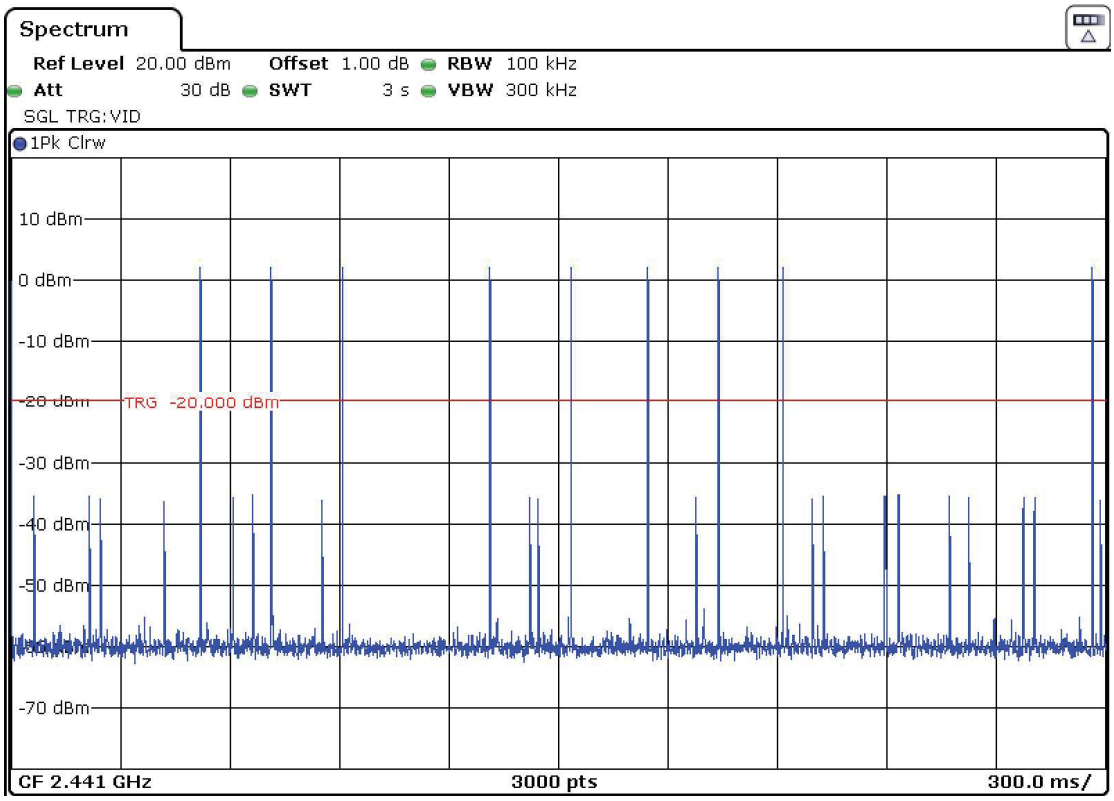
  - Transmit Time per Hop:

2.88429	ms



- Time of Occupancy:

Nº of hops on spectrum analyzer	9	
Nº of hops over the period	94.8	
Average Time of Occupancy	273.430692	ms



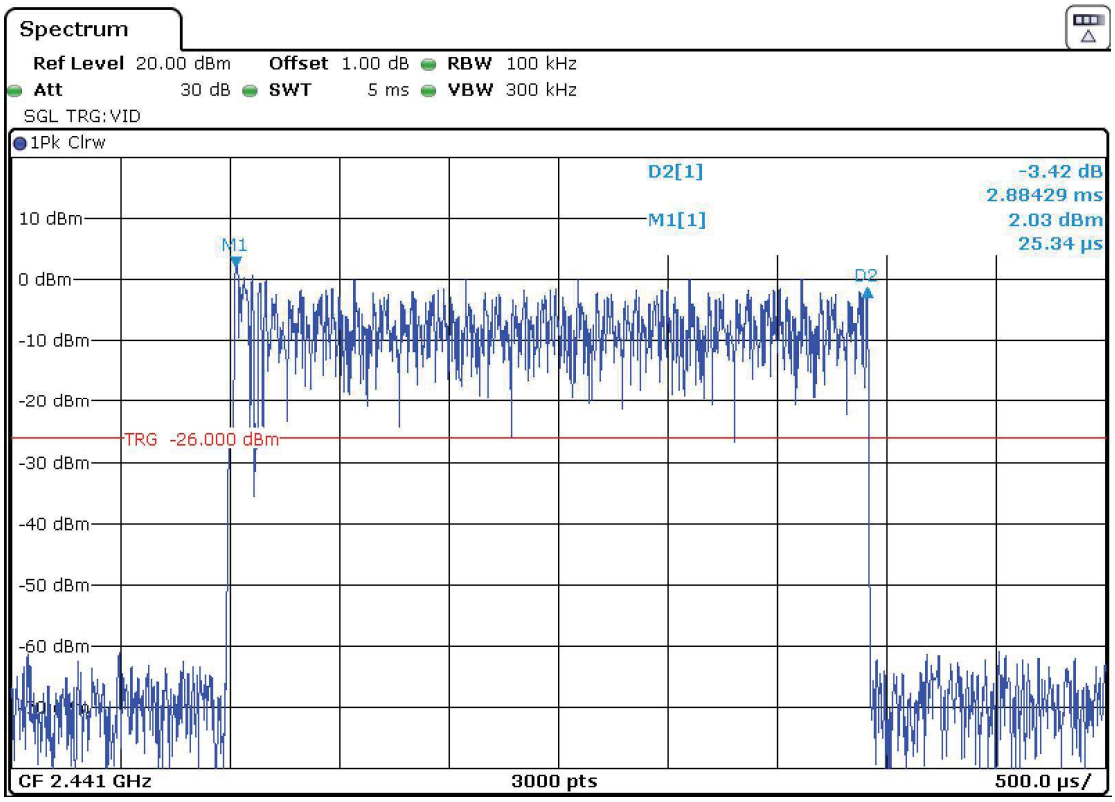
Measurement uncertainty (%)	<±0.12

Verdict: PASS

- **8DPSK (packet type 3DH5) – Time of Occupancy (Dwell Time)**

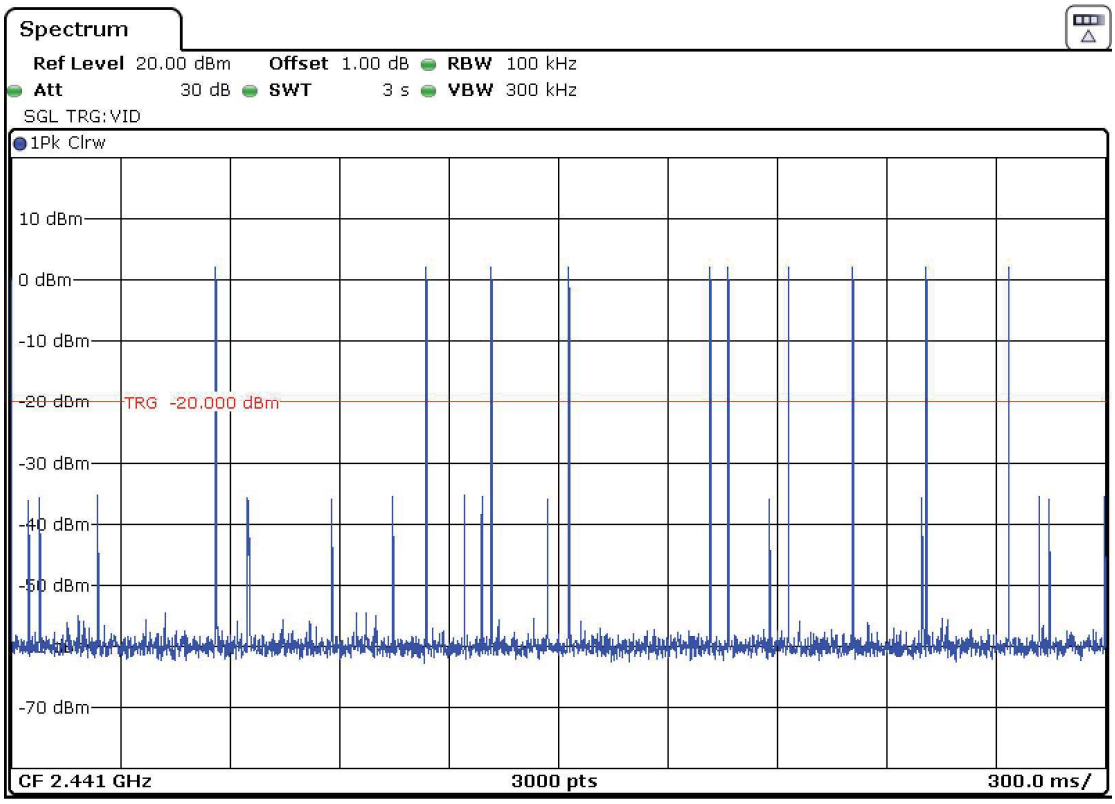
  - Transmit Time per Hop:

2.88429	ms



- Time of Occupancy:

Nº of hops on spectrum analyzer	10	
Nº of hops over the period	105.3333333	
Average Time of Occupancy	303.81188	ms



Measurement uncertainty (%)	<±0.12

Verdict: PASS

FCC 15.247 (b) / RSS-247 5.4 (b) Maximum peak output power and antenna gain

SPECIFICATION:

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm). The e.i.r.p. shall not exceed 4 W (RSS-247).

RESULTS:

The EIRP power (dBm) is calculated by adding the maximum declared antenna gain to the measured conducted power.

Maximum Declared Antenna Gain: +1.8 dBi

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

- **GFSK** (1 Mbps)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	6.09	7.11	7.25
Maximum EIRP Power (dBm)	7.89	8.91	9.05
Measurement uncertainty (dB)	<±2.57		

- **Pi/4 DQPSK** (2 Mbps)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	3.71	4.79	5.05
Maximum EIRP Power (dBm)	5.51	6.59	6.85
Measurement uncertainty (dB)	<±2.57		

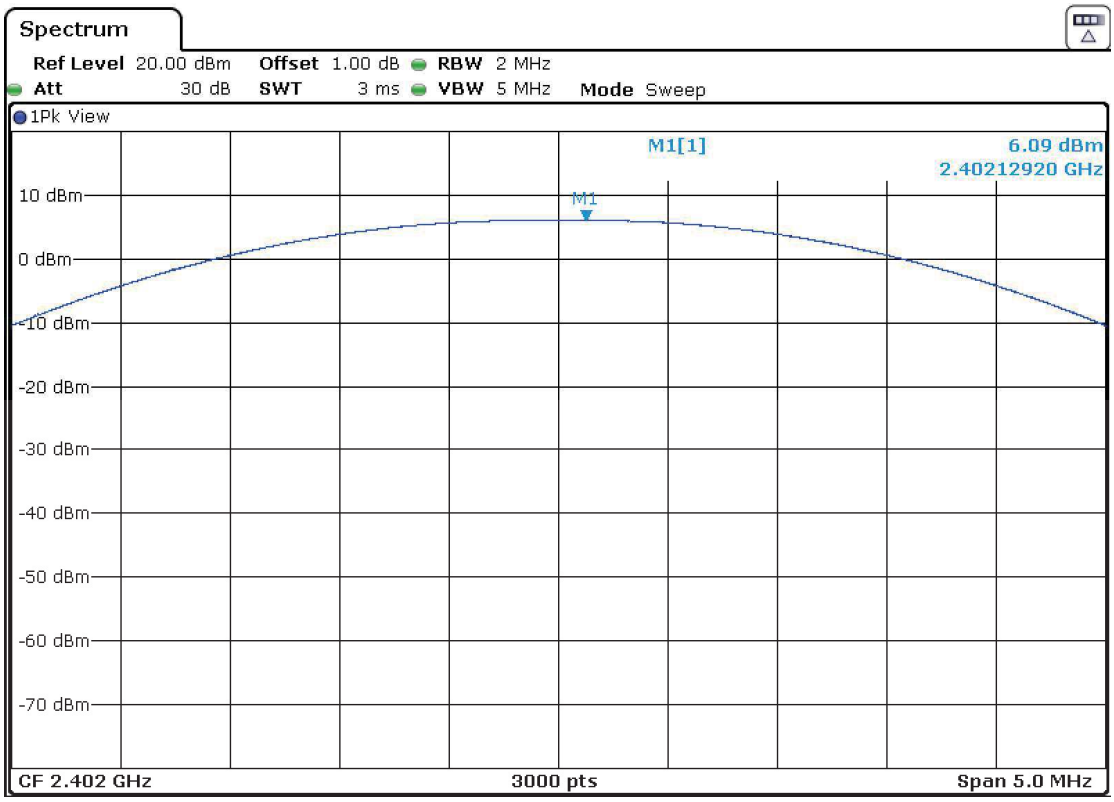
- **8DPSK** (3 Mbps)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	4.13	5.28	5.51
Maximum EIRP Power (dBm)	5.93	7.08	7.31
Measurement uncertainty (dB)	<±2.57		

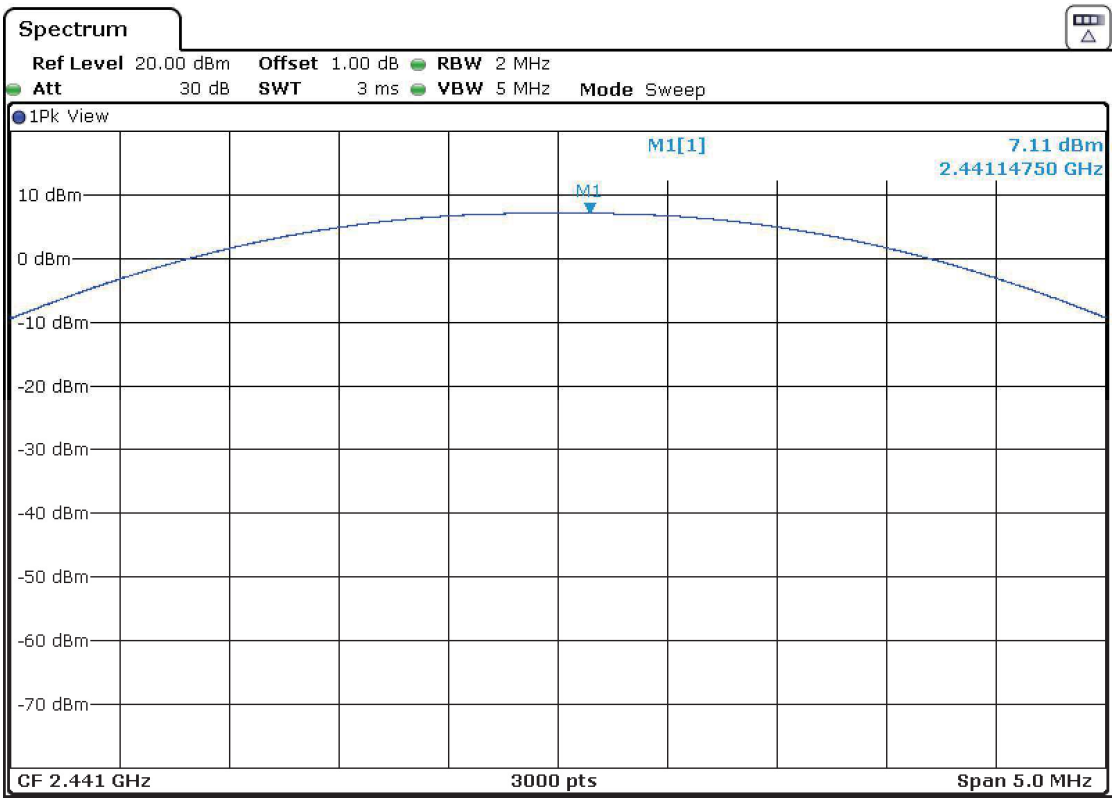
Verdict: PASS

- **GFSK – Peak Output Power**

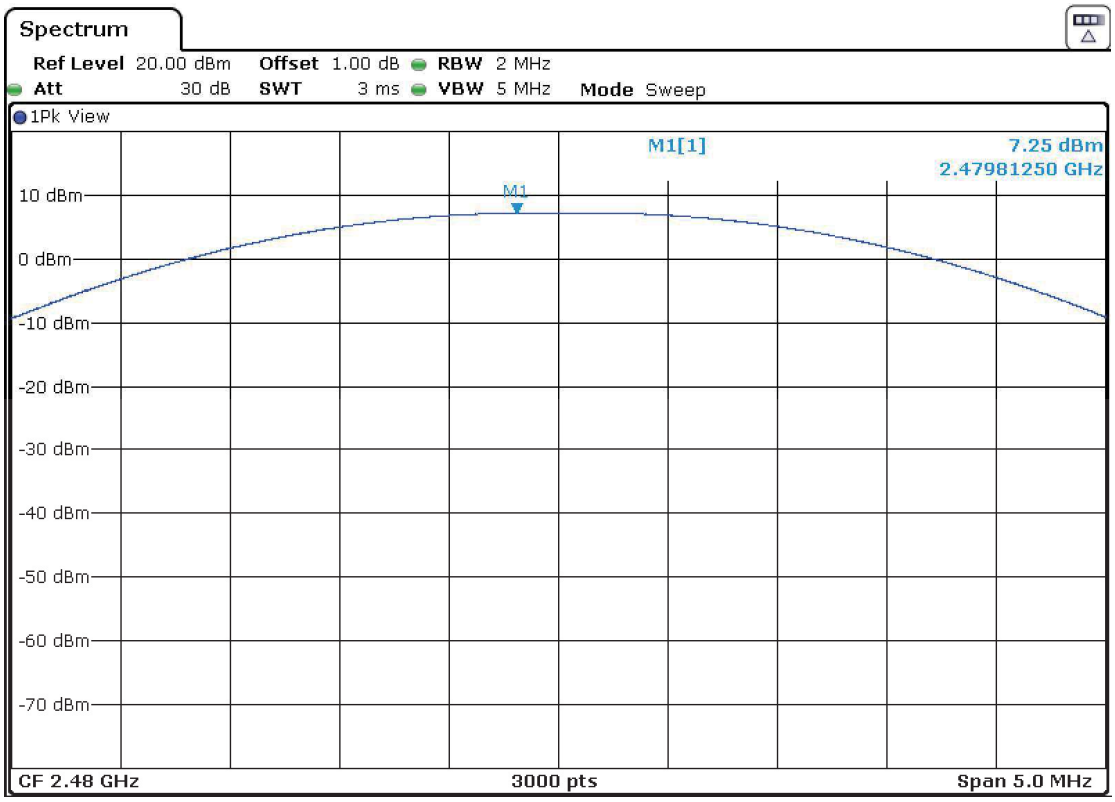
- Low Channel:



- Middle Channel:

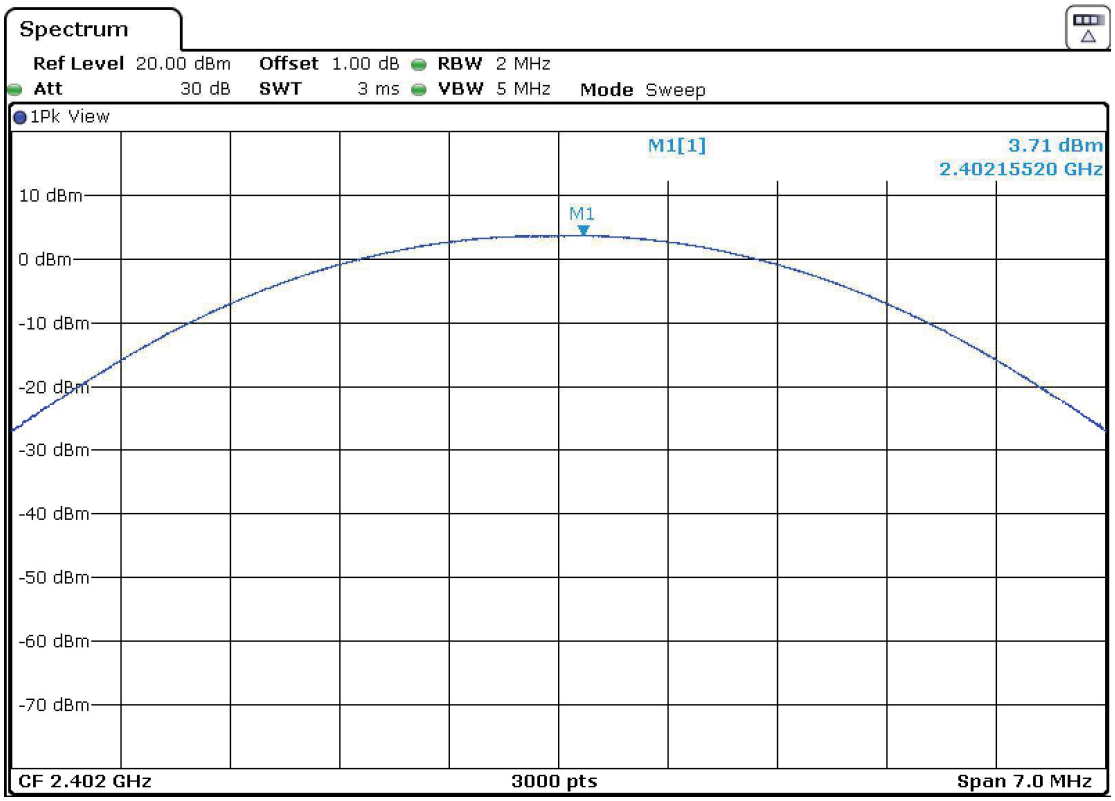


- High Channel:

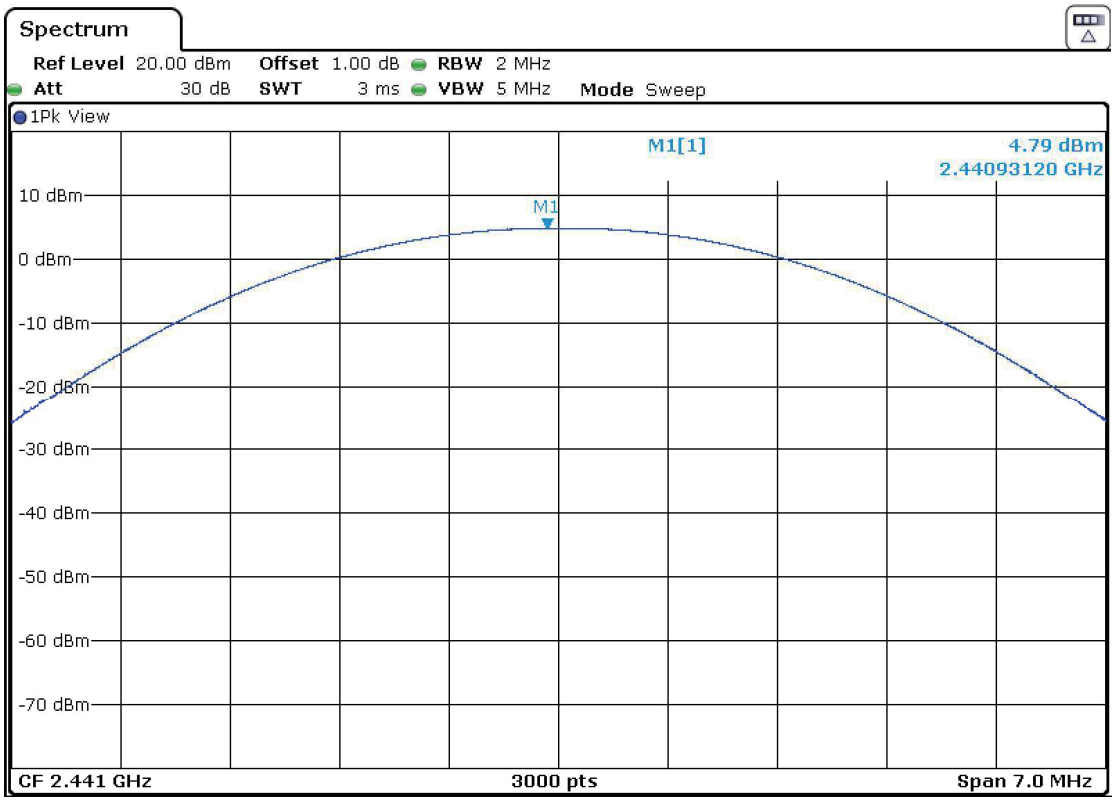


- **Pi/4 DQPSK – Peak Output Power**

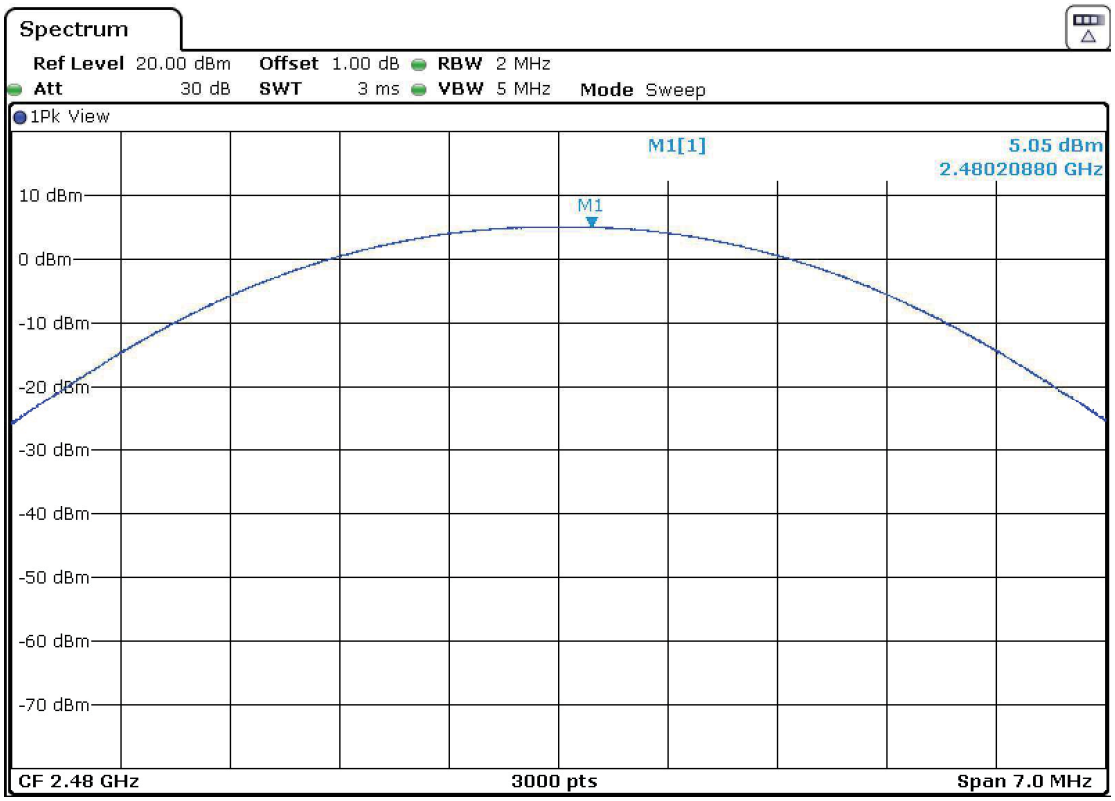
- Low Channel:



- Middle Channel:

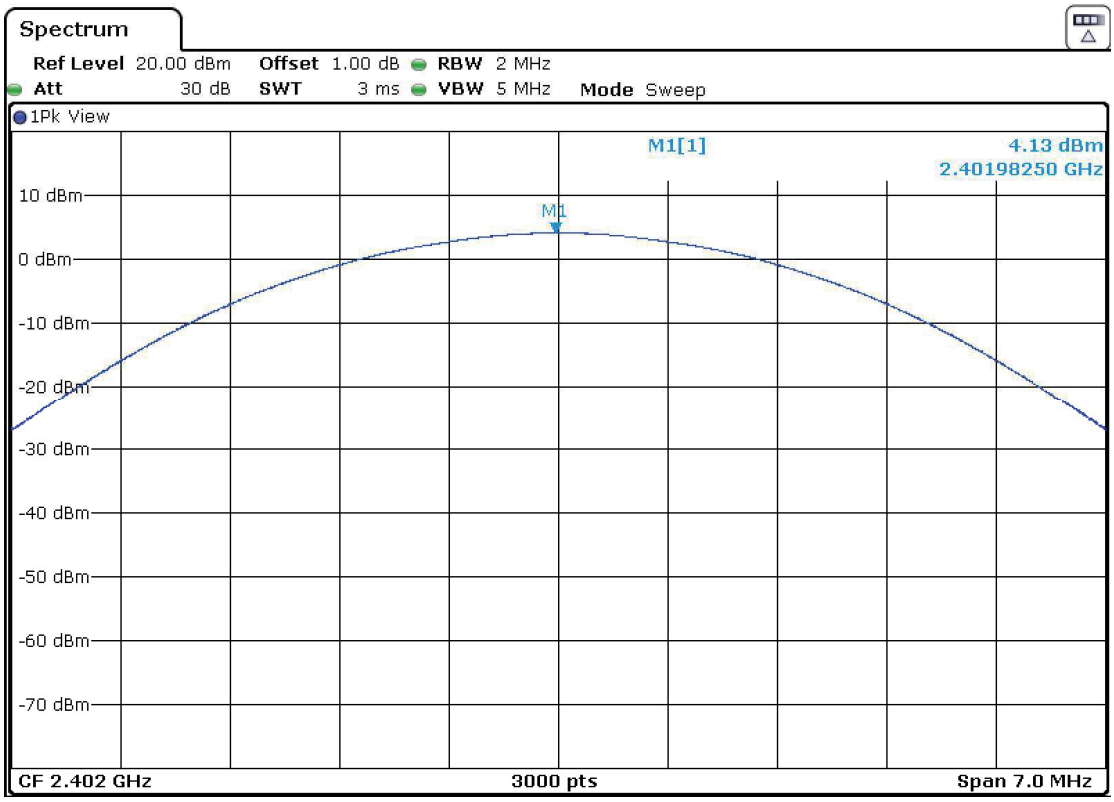


- High Channel:

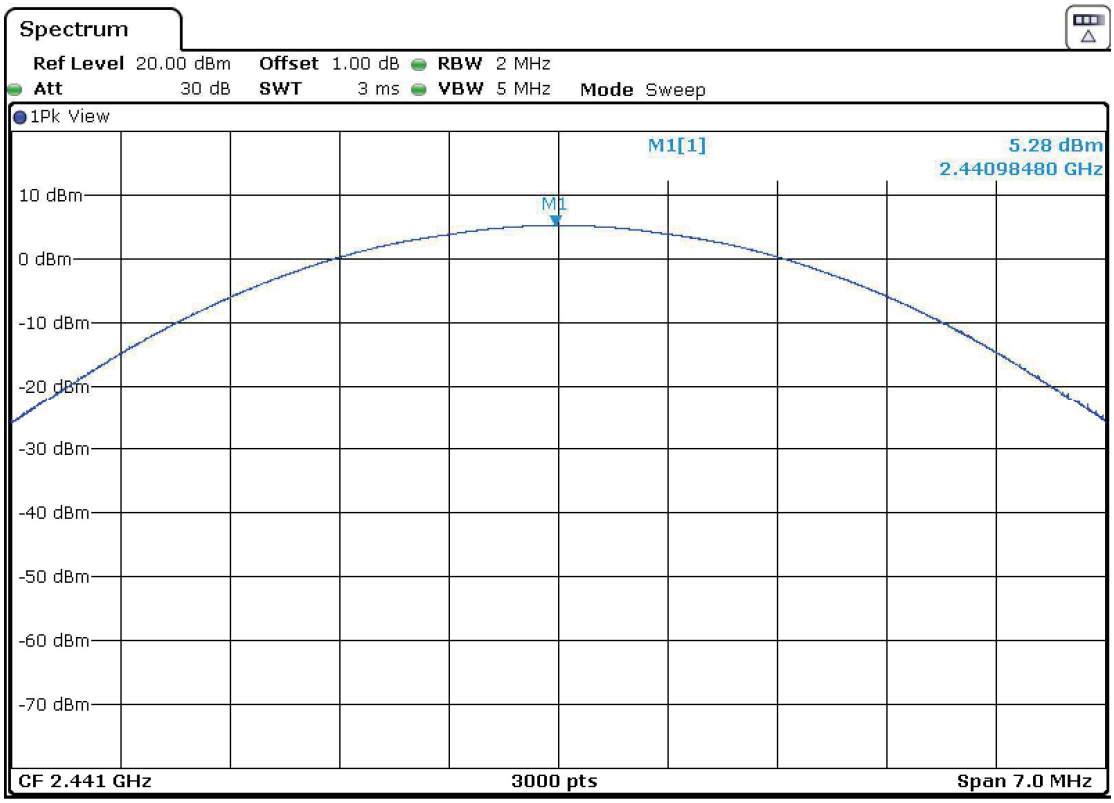
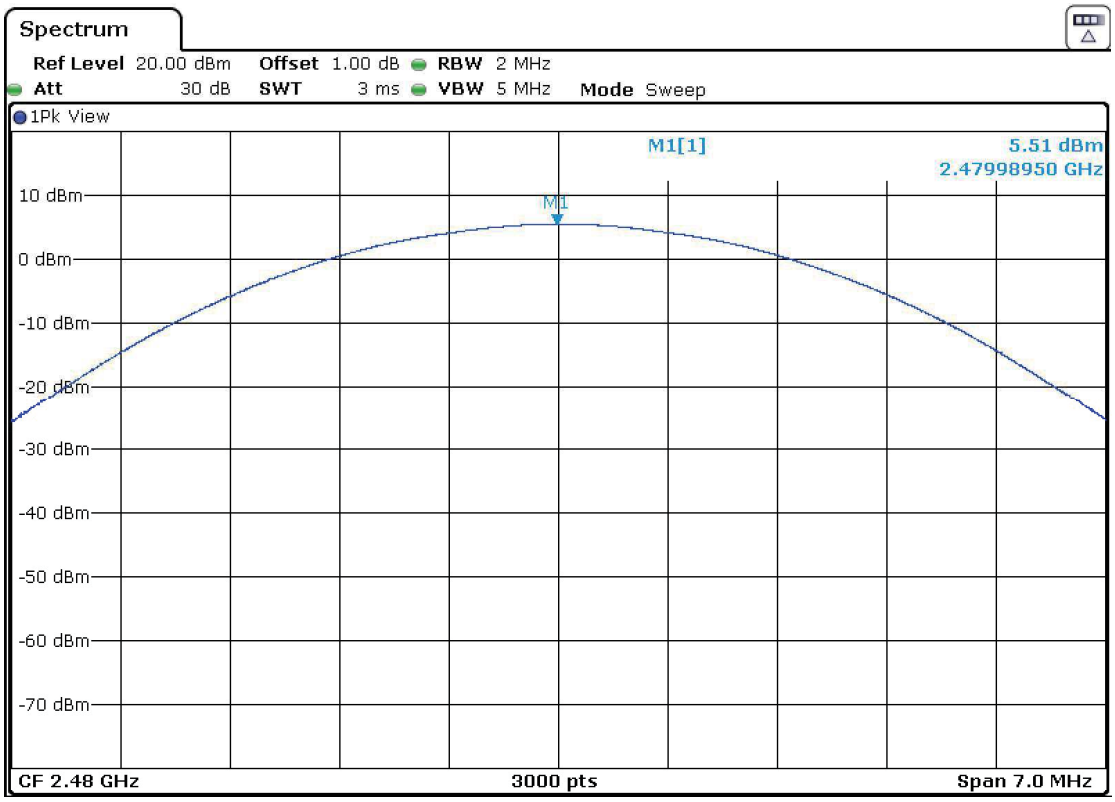


- **8DPSK – Peak Output Power**

- Low Channel:



- Middle Channel:



- High Channel: