

TEST REPORT

Report No.:	BCTC2303832373-1E					
Applicant:	SHENZHEN NST INDUSTRY AND TRADE CO., LTD					
Product Name:	15.6 Digital photo Frame					
Model/Type reference:	F015					
Tested Date:	2023-03-20 to 2023-04-04					
Issued Date:	2023-04-04					
She	nzhen BCTCBESting Co., Ltd.					
No.: BCTC/RF-EMC-007	Page: 1 of 84					



FCC ID: 2AAMS-F015

Product Name:	15.6 Digital photo Frame
Trademark:	SGIN
Model/Type Reference:	F015 D156CA
Prepared For:	SHENZHEN NST INDUSTRY AND TRADE CO., LTD
Address:	3-4/F, Bldg 1, Hongbang Intelligent Technology Park, No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen, China
Manufacturer:	SHENZHEN NST INDUSTRY AND TRADE CO., LTD
Address:	3-4/F, Bldg 1, Hongbang Intelligent Technology Park, No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2023-03-20
Sample tested Date:	2023-03-20 to 2023-04-04
Issue Date:	2023-04-04
Report No.:	BCTC2303832373-1E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is Bluetooth Classic radio test report.

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Page: 2 of 84



Table Of Content

Test	Report Declaration	Page
1.	Version	5
2.	Test Summary	
3.	Measurement Uncertainty	
4.	Product Information And Test Setup	
4.1	Product Information	
4.2	Test Setup Configuration	
4.3	Support Equipment	
4.4	Channel List	
4.5	Test Mode	
4.6	Table Of Parameters Of Text Software Setting	
5.	Test Facility And Test Instrument Used	
5.1	Test Facility	
5.2	Test Instrument Used	
6.	Conducted Emissions	
6.1	Block Diagram Of Test Setup	
6.2	Limit	
6.3	Test procedure	
6.4	EUT operating Conditions	
6.5	Test Result	
7.	Radiated emissions	
7.1	Block Diagram Of Test Setup	
7.2	Limit	
7.3	Test procedure	
7.4	EUT operating Conditions	
7.5	Test Result	
8.	Radiated Band Emission Measurement And Restricted Bands Of Oper	
8.1	Block Diagram Of Test Setup.	
8.2	Limit	28
8.3	Test procedure	29
8.4	EUT operating Conditions	
8.5	Test Result	
9.	Spurious RF Conducted Emissions	
9.1	Block Diagram Of Test Setup	31
9.2	Limit	
9.3	Limit Test procedure Test Result 20 dB Bandwidth Block Diagram Of Test Setup	31
9.4	Test Result	32
10.	20 dB Bandwidth	53
10.1	Block Diagram Of Test Satur	
10.1	Limit	
10.2		53
10.3	Test Procedure	
10.4	Maximum Peak Output Power	
11.1	Block Diagram Of Test Setup	
11.2		
11.2		
11.4		
11.4		



12. Hopping Channel Separation	65
12.1 Block Diagram Of Test Setup	65
12.2 Limit	65
12.3 Test procedure	65
12.4 Test Result	65
13. Number Of Hopping Frequency	71
13.1 Block Diagram Of Test Setup	71
13.2 Limit	
13.3 Test procedure	71
13.4 Test Result	71
14. Dwell Time	74
14.1 Block Diagram Of Test Setup	74
14.2 Limit	74
14.3 Test procedure	74
14.4 Test Result	
15. Antenna Requirement	80
15.1 Limit	80
15.2 Test Result	80
16. EUT Photographs	81
17. EUT Test Setup Photographs	82

(Note: N/A Means Not Applicable)

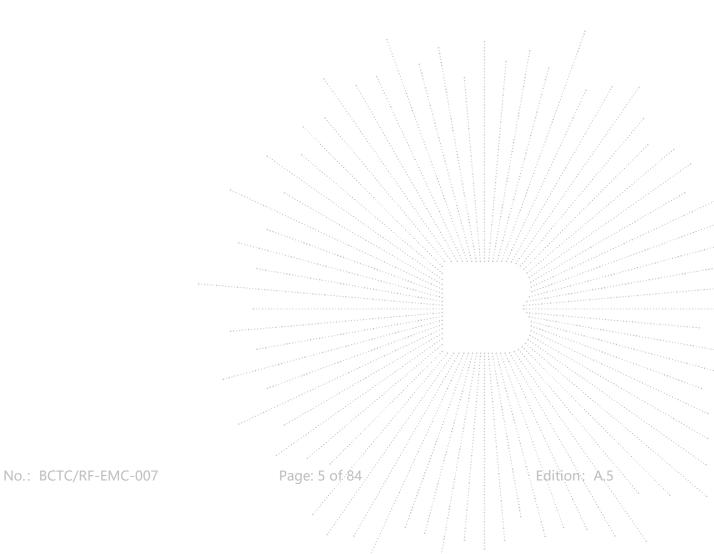
Page: 4 of 84

Edition: A.5



1. Version

Report No.	Issue Date	Description	Approved
BCTC2303832373-1E	2023-04-04	Original	Valid





2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted emission AC power port	§15.207	PASS
2	Conducted peak output power for FHSS	§15.247(b)(1)	PASS
3	20dB Occupied bandwidth	§15.247(a)(1)	PASS
4	Hopping channel separation	§15.247(a)(1)	PASS
5	Number of hopping frequencies	§15.247(a)(1)(iii)	PASS
6	Dwell Time	§15.247(a)(1)(iii)	PASS
7	Spurious RF conducted emissions	§15.247(d)	PASS
8	Band edge	§15.247(d)	PASS
9	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
10	Antenna Requirement	15.203	PASS

No.: BCTC/RF-EMC-007

Page: 6 of 84

Edition: A.5



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59 °C



4. Product Information And Test Setup

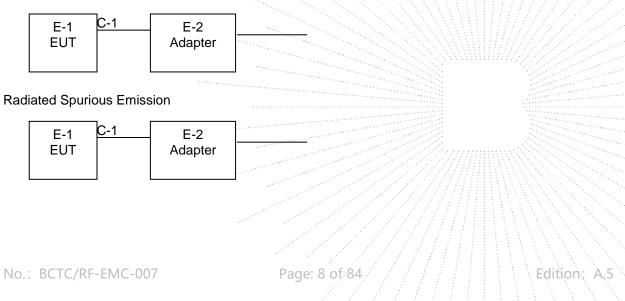
4.1 Product Information

Model/Type reference:	F015 D156CA
Model differences:	All the model are the same circuit and RF module, except model names.
Bluetooth Version:	5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Internal antenna
Antenna Gain:	2.31dBi
Ratings:	DC 5V from adapter
Adapter 1:	MODEL: J012-0502500UX INPUT: 100-240V~50/60Hz 0.6A OUTPUT: DC 5V 2.5A 12.5W
Adapter 2:	MODEL: JZB024-050300UX INPUT: 100-240V~50/60Hz 0.7A OUTPUT: DC 5V 3A

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:





4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	15.6 Digital photo Frame	SGIN	F015	D156CA	EUT
E-2	ADAPTER	N/A	J012-0502500UX	N/A	Auxiliary
E-3	ADAPTER	N/A	JZB024-050300UX	N/A	Auxiliary
E-4	earphone	N/A	N/A	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475		2476	75	2477
76	2478	77	2479	78	2480	79	/····



4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Test mode	Low channel	Middle channel	High channel			
1	Transmitting(GFSK)	2402MHz	2441MHz	2480MHz			
2	Transmitting(π/ 4 DQPSK)	2402MHz	2441MHz	2480MHz			
3	Transmitting(8DPSK)	2402MHz	2441MHz	2480MHz			
4	Transmitting (Co	Transmitting (Conducted emission & Radiated emission)					

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Frequency	2402 MHz 2441 MHz	-	2480 MHz
Parameters	DEF		DEF



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test							
Equipment	ipment Manufacturer Model# Serial# Last Cal. Next Cal.						
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023		
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	/		
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023		

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419		May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Radio frequency control box	MAIWEI	MW100-RFC B		1	
Software	MAIWEI	MTS 8310		۱. ۱	



Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\	Λ_{j}

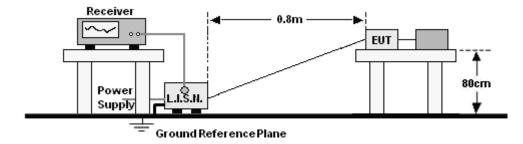
Page: 12 of 84

Edition: A.5



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

	Limit (dBuV)		
Frequency (MHz)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

	1. Contract of the second seco		1
Receiver Parameters		Setting	
Attenuation		10 dB	
Start Frequency		0.15 MHz	
Stop Frequency		30 MHz	
IF Bandwidth		9 kHz	

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

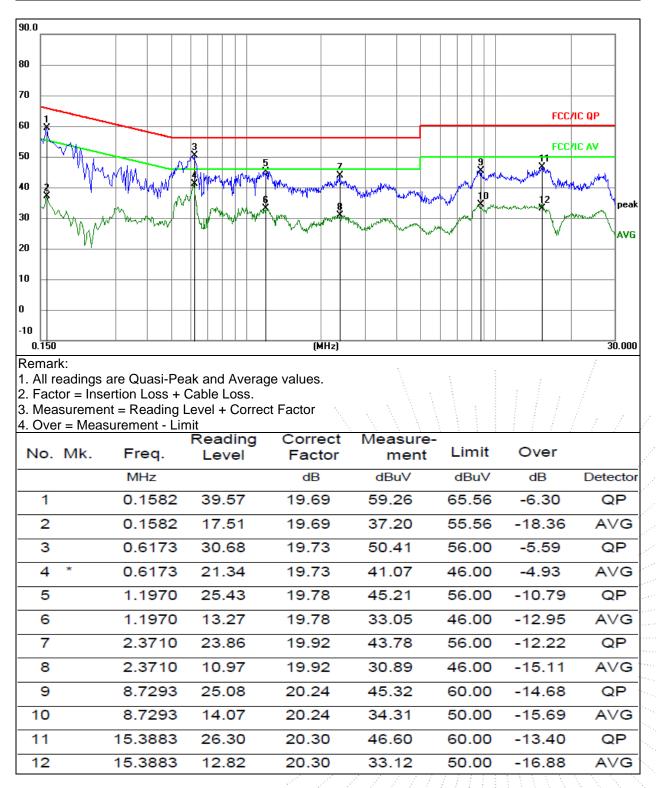
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

Adapter 1				
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Phase :	L	
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz	



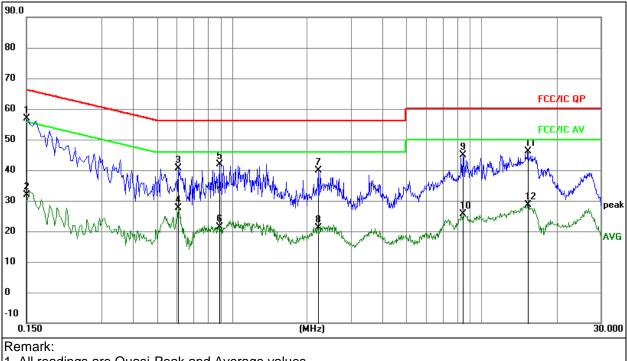
No.: BCTC/RF-EMC-007

Page: 14 of 84

Edition: A.5



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor

4. Over =	Measurement -	Limit

					1		
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1 *	0.1500	37.26	19.67	56.93	66.00	-9.07	QP
2	0.1500	12.24	19.67	31.91	56.00	-24.09	AVG
3	0.6089	20.89	19.73	40.62	56.00	-15.38	QP
4	0.6089	7.99	19.73	27.72	46.00	-18.28	AVG
5	0.8924	22.22	19.75	41.97	56.00	-14.03	QP
6	0.8924	1.62	19.75	21.37	46.00	-24.63	AVG
7	2.2064	20.04	19.90	39.94	56.00	-16.06	QP
8	2.2064	1.26	19.90	21.16	46.00	-24.84	AVG
9	8.4435	24.73	20.23	44.96	60.00	-15.04	QP
10	8.4435	5.35	20.23	25.58	50.00	-24.42	AVG
11	15.3150	25.74	20.29	46.03	60.00	-13.97	QP
12	15.3150	8.31	20.29	28.60	50.00	-21.40	AVG

No.: BCTC/RF-EMC-007

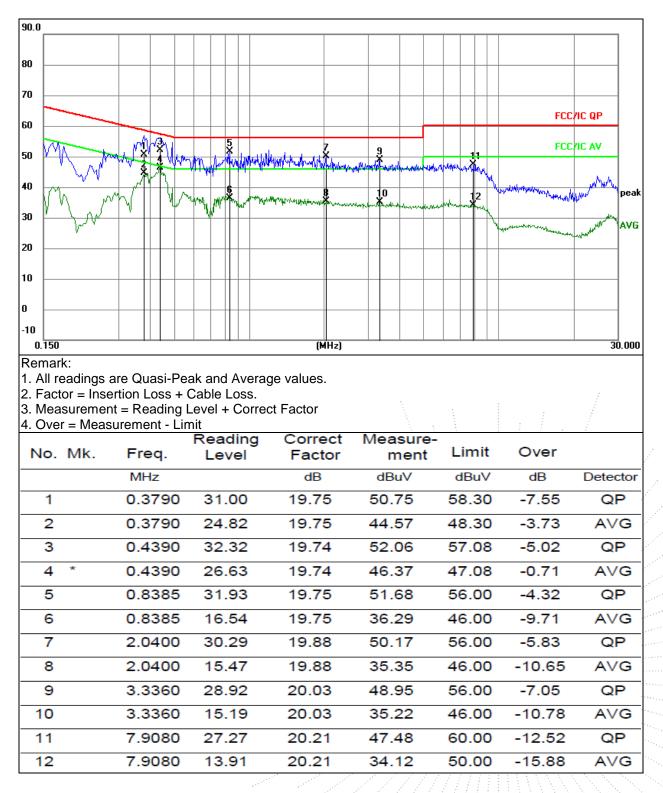
Page: 15 of 84

Edition:



Adapter 2

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz

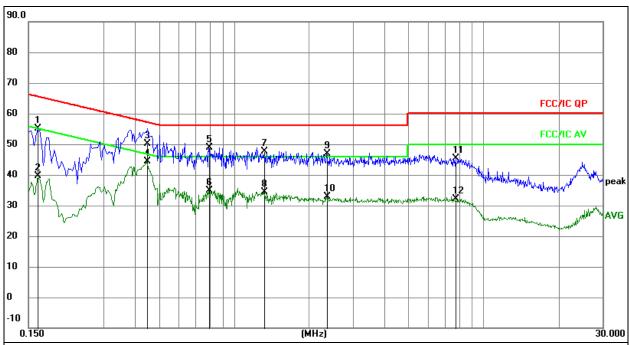


Page: 16 of 84

Edition: A.5



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

- 3. Measurement = Reading Level + Correct Factor 4. Over = Measurement Limit

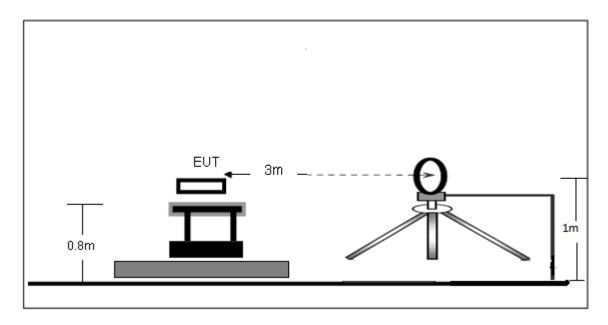
4. Over		леттен - сп	1111				:	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1633	35.47	19.70	55.17	65.29	-10.12	QP
2		0.1633	19.87	19.70	39.57	55.29	-15.72	AVG
3		0.4468	30.47	19.73	50.20	56.93	-6.73	QP
4	*	0.4468	24.59	19.73	44.32	46.93	-2.61	AVG
5		0.7918	29.15	19.75	48.90	56.00	-7.10	QP
6		0.7918	15.16	19.75	34.91	46.00	-11.09	AVG
7		1.3168	27.78	19.80	47.58	56.00	-8.42	QP
8		1.3168	14.61	19.80	34.41	46.00	-11.59	AVG
9		2.3460	26.84	19.92	46.76	56.00	-9.24	QP
10		2.3460	12.88	19.92	32.80	46.00	-13.20	AVG
11		7.7278	25.30	20.20	45.50	60.00	-14.50	QP
12		7.7278	11.85	20.20	32.05	50.00	-17.95	AVG



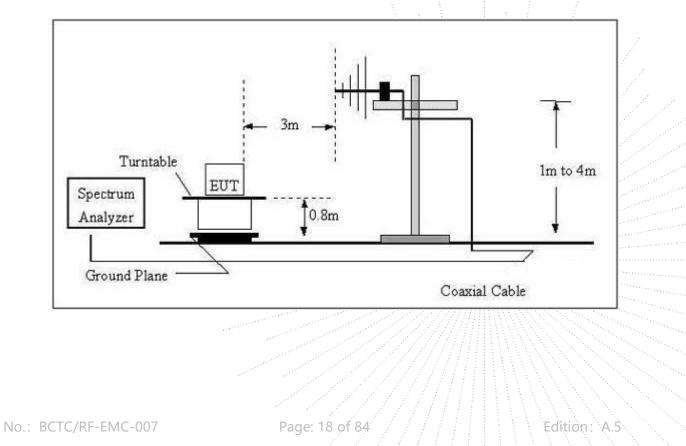
7. Radiated emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz

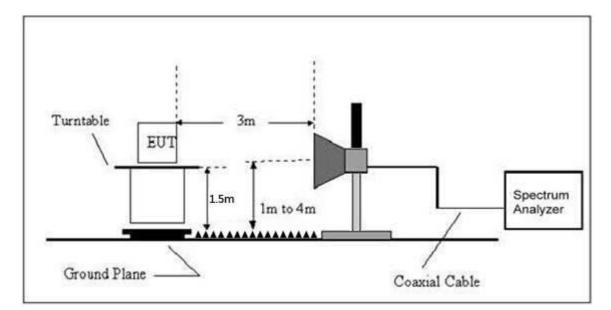


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m) (at 3M)
Frequency (MHz)	Peak	Average
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting					
Attenuation	Auto					
9kHz~150kHz	RBW 200Hz for QP					
150kHz~30MHz	RBW 9kHz for QP					
30MHz~1000MHz	RBW 120kHz for QP					

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz	
Test Mode:	Mode 4	Test Voltage :		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

No.: BCTC/RF-EMC-007

Page: 22 of 84

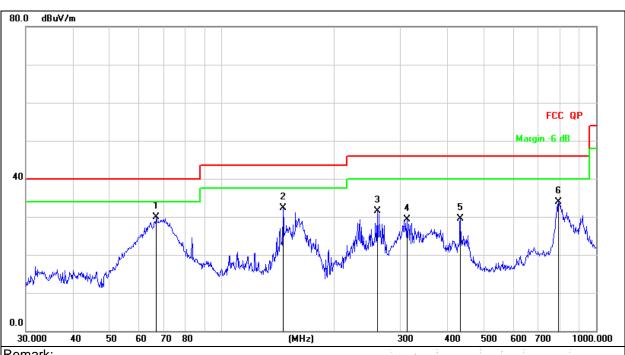
Edition: A.5



Between 30MHz - 1GHz

Adapter 1

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz



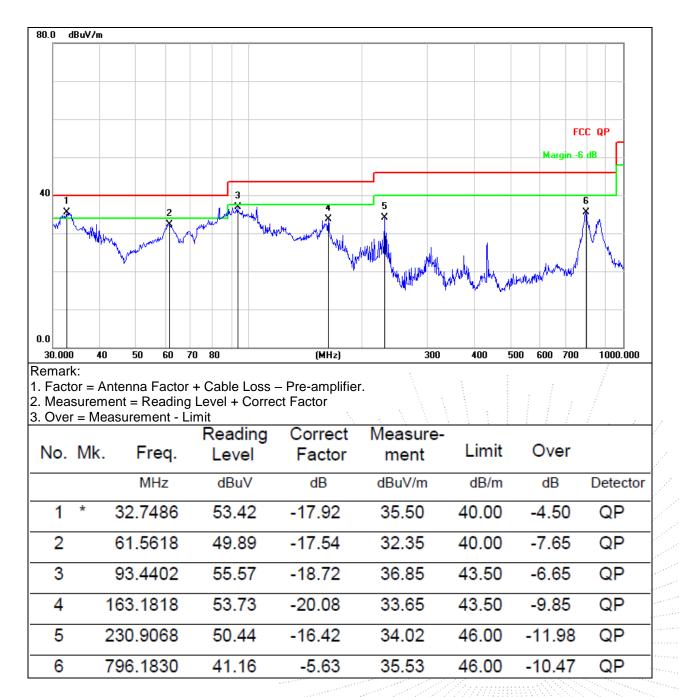
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

J. 0ve	- 1010	asurement - L				1 1 1 1 1		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	66.9669	48.90	-19.08	29.82	40.00	-10.18	QP
2		145.8611	53.17	-20.78	32.39	43.50	-11.11	QP
3		260.1444	47.00	-15.58	31.42	46.00	-14.58	QP
4		312.1794	43.42	-14.14	29.28	46.00	-16.72	QP
5		434.0651	41.23	-11.72	29.51	46.00	-16.49	QP
6		793.3960	39.64	-5.68	33.96	46.00	-12.04	QP



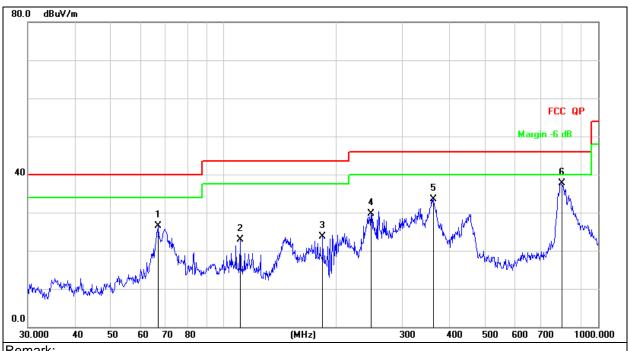
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz





Adapter 2

Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Phase :	Horizontal	
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz	



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

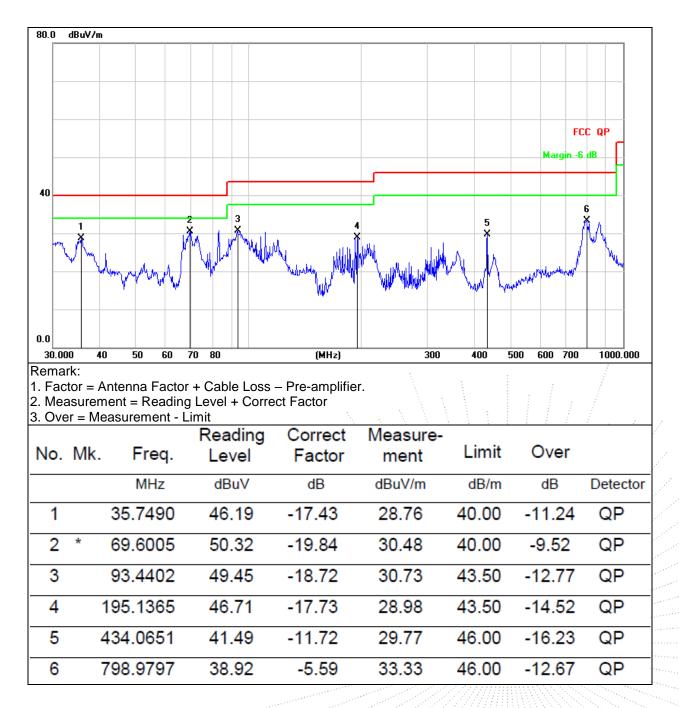
2. Measurement = Reading Level + Correct Factor

3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		66.9669	45.62	-19.08	26.54	40.00	-13.46	QP
2		110.9571	41.31	-18.48	22.83	43.50	-20.67	QP
3		183.8440	42.21	-18.56	23.65	43.50	-19.85	QP
4		247.6819	45.61	-15.90	29.71	46.00	-16.29	QP
5		362.9844	46.18	-12.64	33.54	46.00	-12.46	QP
6	*	801.7863	43.23	-5.55	37.68	46.00	-8.32	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz





Between 1GHz – 25GHz

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
			GFSK Low ch	annel			
V	4804.00	54.22	-0.43	53.79	74.00	-20.21	PK
V	4804.00	45.08	-0.43	44.65	54.00	-9.35	AV
V	7206.00	44.06	8.31	52.37	74.00	-21.63	PK
V	7206.00	34.06	8.31	42.37	54.00	-11.63	AV
Н	4804.00	51.27	-0.43	50.84	74.00	-23.16	PK
Н	4804.00	40.70	-0.43	40.27	54.00	-13.73	AV
Н	7206.00	41.79	8.31	50.10	74.00	-23.90	PK
Н	7206.00	33.22	8.31	41.53	54.00	-12.47	AV
		G	FSK Middle c	hannel			
V	4882.00	51.97	-0.38	51.59	74.00	-22.41	PK
V	4882.00	43.73	-0.38	43.35	54.00	-10.65	AV
V	7323.00	42.84	8.83	51.67	74.00	-22.33	PK
V	7323.00	33.95	8.83	42.78	54.00	-11.22	AV
Н	4882.00	47.79	-0.38	47.41	74.00	-26.59	PK
Н	4882.00	37.33	-0.38	36.95	54.00	-17.05	AV
Н	7323.00	40.07	8.83	48.90	74.00	-25.10	PK
Н	7323.00	31.42	8.83	40.25	54.00	-13.75	AV
			GFSK High ch	annel			
V	4960.00	54.52	-0.32	54.20	74.00	-19.80	PK
V	4960.00	46.16	-0.32	45.84	54.00	-8.16	AV
V	7440.00	48.23	9.35	57.58	74.00	-16.42	PK
V	7440.00	37.68	9.35	47.03	54.00	-6.97	AV
Н	4960.00	52.40	-0.32	52.08	74.00	-21.92	PK
Н	4960.00	43.22	-0.32	42.90	54.00	-11.10	AV
Н	7440.00	46.65	9.35	56.00	74.00	-18.00	PK
Н	7440.00	38.95	9.35	48.30	54.00	-5.70	AV

Remark:

1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

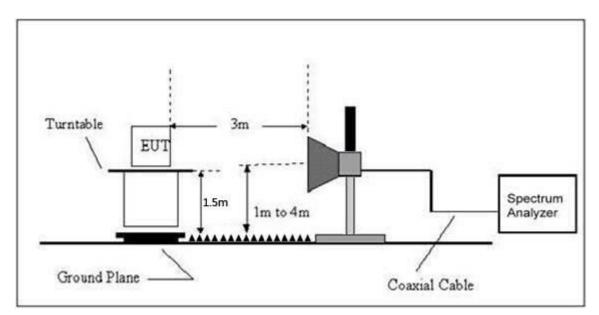
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			



Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (d	BuV/m) (at 3M)
Frequency (MHz)	Peak	Average
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (Emission In Restricted Band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits V/m)	Result
	(1.7.7)	()	(dBuV/m)	(dB)	РК	РК	AV	
		L	Low	Channel 2	402MHz	1		
	Н	2390.00	53.58	-6.70	46.88	74.00	54.00	PASS
	Н	2400.00	56.96	-6.71	50.25	74.00	54.00	PASS
	V	2390.00	52.84	-6.70	46.14	74.00	54.00	PASS
GFSK	V	2400.00	52.86	-6.71	46.15	74.00	54.00	PASS
Gran			High	n Channel 2	480MHz			
	Н	2483.50	52.91	-6.79	46.12	74.00	54.00	PASS
	Н	2500.00	49.18	-6.81	42.37	74.00	54.00	PASS
	V	2483.50	51.04	-6.79	44.25	74.00	54.00	PASS
	V	2500.00	46.36	-6.81	39.55	74.00	54.00	PASS
				/ Channel 2	402MHz			
	Н	2390.00	52.52	-6.70	45.82	74.00	54.00	PASS
	Н	2400.00	56.68	-6.71	49.97	74.00	54.00	PASS
	V	2390.00	51.99	-6.70	45.29	74.00	54.00	PASS
π/4DQPSK	V	2400.00	53.62	-6.71	46.91	74.00	54.00	PASS
			V	n Channel 2				
	Н	2483.50	51.00	-6.79	44.21	74.00	54.00	PASS
	Н	2500.00	47.73	-6.81	40.92	74.00	54.00	PASS
	V	2483.50	51.81	-6.79	45.02	74.00	54.00	PASS
	V	2500.00	47.47	-6.81	40.66	74.00	54.00	PASS
			Low	/ Channel 2 [,]	402MHz			
	Н	2390.00	52.24	-6.70	45.54	74.00	54.00	PASS
	Н	2400.00	55.43	-6.71	48.72	74.00	54.00	PASS
	V	2390.00	52.87	6.70	46.17	74.00	54.00	PASS
8DPSK	V	2400.00	53.87	-6.71	47.16	74.00	54.00	PASS
ODESK			High	h Channel 2	480MHz			
	Н	2483.50	50.30	-6.79	43.51	74.00	54.00	PASS
	Н	2500.00	47.68	-6.81	40.87	74.00	54.00	PASS
	V	2483.50	52.60	-6.79	45.81	74.00	54.00	PASS
	V	2500.00	47.70	-6.81	40.89	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Spurious RF Conducted Emissions

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c))

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer:

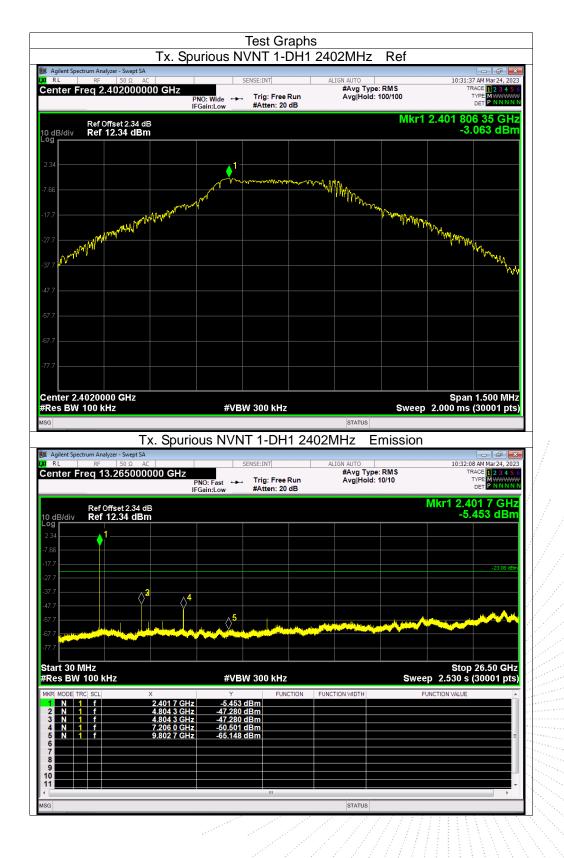
RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

Page: 31 of 84



9.4 Test Result

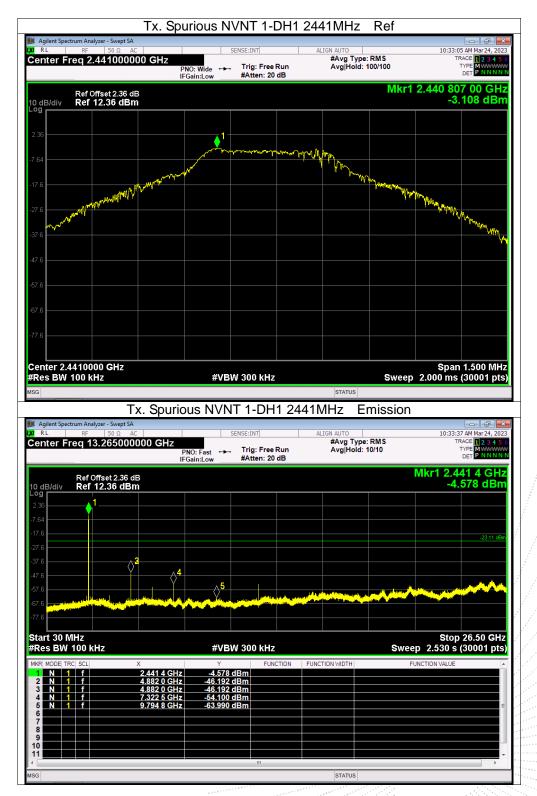


No.: BCTC/RF-EMC-007

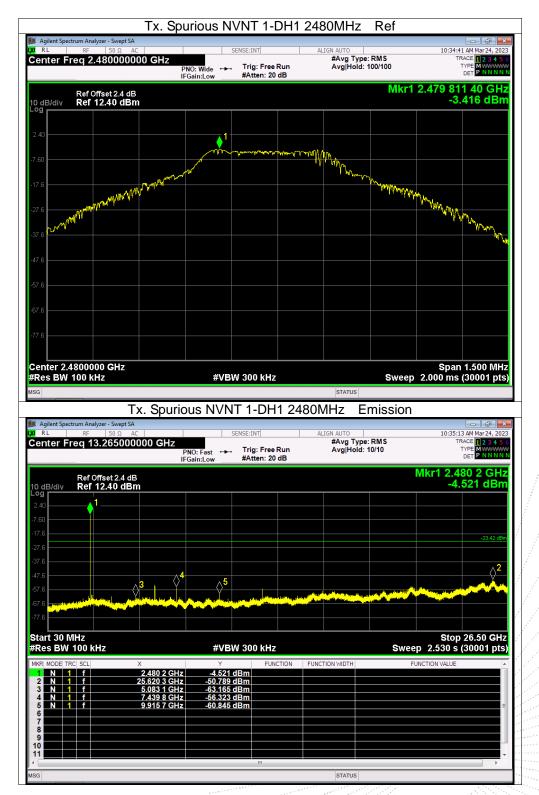
Page: 32 of 84

Edition: A.5











Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freg 2.4020000	C	SENSE:INT	AL	IGN AUTO #Avg Type:	PMS	10:37:01 AM Mar 24, 2 TRACE 1 2 3 4
enter Freq 2.402000		de ⊶⊶ Trig:Fro ow #Atten:	ee Run 20 dB	Avg Hold: 1	00/100	TYPE MWWW DET PNNN
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	PNO: Fa IFGain:L			Avg Hold: 1		
Ref Offset 2.34 d dB/div Ref 12.34 dBr	IFGain:L			Avg Hold: 1		DET P NNN Wkr1 2.402 6 GH -6.761 dB
dB/div Ref 12.34 dBr	IFGain:L			Avg Hold: 1		Mkr1 2.402 6 GH
1 dB/div Ref 12.34 dBr	IFGain:L			Avg Hold: 1		Mkr1 2.402 6 GH -6.761 dB
dB/div Ref 12.34 dBr 99 34 7.7 7.7	IFGain:L			Avg Hold: 1		Mkr1 2.402 6 GH
	IFGain:L			Avg Hold: 1		Mkr1 2.402 6 GH -6.761 dB
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dB/div Ref 12.34 dBr 9 1 36 1 36 1 36 1 36 1 36 1 36 1 36 1 36 1 37 1 38 1 3 N 4 1 3 N 4 1 4 1 5 1 6 1	IFGain:L IB m 3 4 4 4 4 4 4 4 4 8 3 4 4 8 3 4 8 4 8 3 4 6 Hz 4 8 3 4 6 Hz 4 8 3 4 6 Hz 7 200 6 Hz	47.295 dBm 47.295 dBm 47.295 dBm 47.295 dBm 47.295 dBm 47.295 dBm			Swee	Mkr1 2.402 6 GH -6.761 dB
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			Trig: Free Run #Atten: 20 dB	Avg Hold	. 100/100	TYPE MWWW DET PNNN
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dB/div Ref 12.36 c	IBm					-3.655 GE
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RL RF 50Ω enter Freq 13.2650	AC A	SENS PNO: Fast ↔	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar 24, 2 TRACE 1234 TYPE MUNIT DET PNNN Mkr1 2.441 4 GH
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RL RF 50 Ω enter Freq 13.2650 D dB/div Ref 12.36 0 P3 C dB/div Ref 12.36 0 C dB/div Ref 13.36 0 C d	AC AC D00000 GHz IB IB IB IB IB	PNO: Fast +>+ Gain:Low #	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar24, 2 TRACE 12.3 4 TYPE 12.3 4 DET 12.1 4 Mkr1 2.441 4 GH -7.622 dB
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 0 236 1 .64 7.6 7.6	AC AC D000000 GHz IF IF IB IB IB IB IB IB IB IB	PNO: Fast +++ Gain:Low #	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar24, 2 TRACE 12.3 4 TYPE 12.3 4 DET 12.1 4 Mkr1 2.441 4 GH -7.622 dB
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 12.36 d Ref 3.2 236 1 1 7.6 1 1 7.6 7 1	AC AC D00000 GHz IB IB IB IB IB	PNO: Fast +>+ Gain:Low #	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar24, 2 TRACE 12.3 4 TYPE 12.3 4 DET 12.1 4 Mkr1 2.441 4 GH -7.622 dB
RL RF 50 Ω enter Freq 13.2650 D dB/div Ref 12.36 d 236 7.6 7.6 7.6 7.6 7.6 7.6 7.6	AC AC D00000 GHz IB IB IB IB IB	PNO: Fast +++ Gain:Low #	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar24, 2 TRACE 12.3 4 TYPE 12.3 4 DET 12.1 4 Mkr1 2.441 4 GH -7.622 dB
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 g 336 1 64 1 76 1 7.6 1 7.6 1 7.6 1	AC AC D00000 GHz IB IB IB IB IB	PNO: Fast +++ Gain:Low #	SE:INT	2441MHz E	be: RMS I: 10/10	10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MWW DET P NNN Mkr1 2.441 4 GH -7.622 dB
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 12.36 d Ref 12.36 d 236 1	AC AC D00000 GHz IB IB IB IB IB	PNO: Fast Gain:Low	SE:INT	2441MHz E	pe: RMS : 10/10	10:39:07 AM Mar24, 2 TRACE 12.3 4 TYPE 12.3 4 DET 12.3 4 Mkr1 2.441 4 GH -7.622 dB
RL RF S0 Ω enter Freq 13.2650 Ref Offset2.3 Ref Offset2.36 0 dB/div Ref 12.36 d Ref 3.26 236 1	AC A	PNO: Fast Gain:Low	SE:INT Trig: Free Run #Atten: 20 dB	2441MHz E	pe: RMS 1: 10/10	10:39:07 AM Mar 24, 2 TRACE 2 3 4 TYPE 2 3 4 TYPE 7 NNN Mkr1 2.441 4 GH -7.622 dB -23 66 -23 66 -24 -26 -26 -26
RL RF S0 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 d 99 1 64 1 64 1 64 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.6 1 7.7 1 8 100 KHz Res BW 100 KHz 8 1 1 1	AC AC AC AC F F F F F F F F F F F F F	PNO: Fast -Gain:Low → -Gain:Low → -Gai	SE:INT Trig: Free Run #Atten: 20 dB South of the second	2441MHz E	pe: RMS 1: 10/10	10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MINN Mkr1 2.441 4 GH -7.622 dB -2366 0 -2366 0 Stop 26.50 GI p 2.530 s (30001 р
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 12.36 g Ref 0 3 6 1 1 64 1 1 7 6 1 1 7 7 6 1 1 7 7 6 1 1 7 7 6 1 1 7 7 6 1 1 7 7 6 1 1 7 7 6 1 1 7 7 7 7 7 1 1 7 8 1 1 8 NOE TRC SCI 1 1 1 1 2 N 1 1 3 N 1 1	AC AC AC AC AC AC AC AC AC AC	PNO: Fast → Gain:Low ≠	SEINT Trig: Free Run #Atten: 20 dB I South of the second seco	2441MHz E	pe: RMS 1: 10/10	10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MINN Mkr1 2.441 4 GH -7.622 dB -2366 0 -2366 0 Stop 26.50 GI p 2.530 s (30001 р
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 12.36 G Ref 12.36 G 336 1 1 64 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.7 1 1 7.6 1 1 7.7 1 1 7.7 1 1 7.6 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.8 1 1	AC AC AC AC AC AC AC AC AC AC	PNO: Fast → Gain:Low ≠	SEINT Trig: Free Run #Atten: 20 dB I South of the second seco	2441MHz E	pe: RMS 1: 10/10	10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MINN Mkr1 2.441 4 GH -7.622 dB -2366 0 -2366 0 Stop 26.50 GI p 2.530 s (30001 р
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RL RF S0 Ω enter Freq 13.2650 Ref Offset 2.3 dB/div Ref 12.36 d 99 1 64 1 64 1 76 1 <t< td=""><td>AC AC AC AC AC AC AC AC AC AC</td><td>PNO: Fast → Gain:Low ≠</td><td>SEINT Trig: Free Run #Atten: 20 dB I South of the second seco</td><td>2441MHz E</td><td>pe: RMS 1: 10/10</td><td>10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MINN Mkr1 2.441 4 GH -7.622 dB -2366 0 -2366 0 Stop 26.50 GI p 2.530 s (30001 р</td></t<>	AC AC AC AC AC AC AC AC AC AC	PNO: Fast → Gain:Low ≠	SEINT Trig: Free Run #Atten: 20 dB I South of the second seco	2441MHz E	pe: RMS 1: 10/10	10:39:07 AM Mar 24, 2 TRACE 12.3 4 TYPE MINN Mkr1 2.441 4 GH -7.622 dB -2366 0 -2366 0 Stop 26.50 GI p 2.530 s (30001 р



Spurious NVNT 2-DH		10:40:25 AM Mar 24, 20
PNO: Wide 🛶 Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 TYPE M DET P NNN
	Mkr1 2.	479 803 85 GH -3.468 dBi
What the superior of the supersonal states of	Martha Aller and the Arthur and Ar	Ar .
		Why.
		· .
		` VN
#VBW 300 kHz	Sween 2	Span 1.500 MH .000 ms (30001 pt
	STATUS	
rious NVNT 2-DH1 2	2480MHz Emission	- P
Z SENSE:INT	ALIGN AUTO #Avg Type: RMS	10:40:57 AM Mar 24, 20 TRACE 2 3 4
PNO: Fast ++ Trig: Free Run IFGain:Low #Atten: 20 dB		
	MI	kr1 2.480 2 GH -6.312 dBi
		-23.47 di
¢ ⁴ ^5		
#VBW 300 kHz	Sween	Stop 26.50 GH 2.530 s (30001 pt
#VDVV JUU KHZ	Uncop	
Y FUNCTION	· · · · · ·	TION VALUE
Y FUNCTION GHz -6.312 dBm GHz -48.679 dBm GHz -48.679 dBm	· · · · · ·	FION VALUE
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Y FUNCTION GHz -6.312 dBm GHz -48.679 dBm GHz -48.679 dBm GHz -56.651 dBm	· · · · · ·	TION VALUE
	PNO: Wide ++- Trig: Free Run IFGain:Low + #Atten: 20 dB	PNO: Wide Trig: Free Run HAtten: 20 dB #Avg Type: RMS Avg Hold: 100/100 Mkr1 2. Mkr1 Mkr12. Mkr1 2. Mkr1 Mkr12. Mkr1 Mkr12. Mkr1 Mkr12. Mkr12. Mkr



Agilent Spectrum Analyzer - Swept S RL RF 50 Ω	AC	SENSE	INT	ALIGN AUTO		10:43:40 AM Mar 24, 20
enter Freq 2.402000	000 GHz	NO:Wide ⊶⊫⊶ Tr	ig: Free Run Atten: 20 dB	#Avg Typ	pe: RMS d: 100/100	10:43:40 AM Mar 24, 20 TRACE 1 2 3 4 TYPE MWWWA DET P N N N
Ref Offset 2.34 dB/div Ref 12.34 dE	dB				Mkr1 2	2.402 134 15 GF -3.100 dB
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enter 2.4020000 GHz						Span 1.500 MI
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•	Tx. Spurio	us NVNT 3	3-DH1 24	102MHz	Emission	
Agilent Spectrum Analyzer - Swept						
	AC	SENSE	:INT	ALIGN AUTO		
RL RF 50 Ω	AC 100000 GHz P	110.1430	ig: Free Run	ALIGN AUTO #Avg Typ Avg Hold		10:44:12 AM Mar 24, 20 TRACE 1 2 3 4
RL RF 50Ω enter Freq 13.26500	AC 100000 GHz P IF	NO: Fast ↔ Tr		#Avg Typ	d: 10/10	10:44:12 AM Mar24, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 Ref 12.34 df	AC 00000 GHz P IF dB	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar24, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB/div Ref 12.34 dB	AC 00000 GHz P IF dB	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar24, 20 TRACE 1 2 3 4 TYPE MWWW DET P NNN
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 Ref Offset 2.34 Ref 0 ffset 2.34 Ref 12.34 Ref 12.34	AC 00000 GHz P IF dB	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 21 TRACE 23 4 TYPE 24 TYPE 24 DET 24 DET
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 0 dB/div Ref 12.34 dE 34 1 66 7 7.7 7	AC 00000 GHz P IF dB	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 20 TRACE 2:3.4 TYPE M DET P NNNI Akr1 2.401 7 GH -5.042 dBI
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB/div Ref 12.34 dB 234 1 66 1 7 7	AC 00000 GHz P IF dB	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 21 TRACE 23 4 TYPE 24 TYPE 24 DET 24 DET
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 0 dB/div Ref 12.34 dB 9 1 66 1 7.7 1 7.7 1 7.7 1 7.7 1	AC 100000 GHz P F dB Bm	NO:Fast ↔ Tr	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 21 TRACE 23 4 TYPE 24 TYPE 24 DET 24 DET
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 0 dB/div Ref 12.34 dB 9 1 66 1 7.7 1 7.7 1 7.7 1 7.7 1 7.7 1 7.7 1 7.7 1	AC 100000 GHz P F dB Bm	NO: Fast → Tr Gain:Low #A	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 20 TRACE 2:3.4 TYPE M DET P NNNI Akr1 2.401 7 GH -5.042 dBI
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB 34 34 1 1 66 7 7 1 77 7 7 1 77 7 1 1 77 7 1 1	AC 100000 GHz P F dB Bm	NO: Fast → Tr Gain:Low #A	ig: Free Run	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 21 TRACE [] 23 4 TYPE MWWW DET P NNN Akr1 2.401 7 GH -5.042 dBi
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB 34 1 36 1 37 1 38 1 39 1 39 1 39 1 39 1 39 1 34 1 37 1 38 1 39 1 39 1 30 1 31 1 32 1 33 1 34 1 35 1 36 1 37 1 37 1 38 1 39 1 39 1 39 1 39 1 39 1 39 1 39 1 39 1	AC P 100000 GHz P F dB 3m 3m 4 4 4 4 4 4 4 4 4 4 4 4 4	NO: Fast + Tr Gain:Low ##	ig: Free Run ttten: 20 dB	#Avg Tyr Avg Hold	d: 10/10	10:44:12 AM Mar 24, 20 TRACE [] 2 3 4 TYPE MUMM DET P NNN Alkr1 2.401 7 GH -5.042 dBI -23:10 d -23:10 d 24 -23:10 d -23:10 d
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB dB/div Ref 12.34 dB 3.4 1 66 1 7.7	AC	NO: Fast Gain:Low Tr #A	ig: Free Run Itten: 20 dB	#Avg Typ	d: 10/10	10:44:12 AM Mar 24, 20 TRACE 12 3 4 TYPE MUMMUN DET P NNN Akr1 2.401 7 GH -5.042 dB -23:10 d
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB dB/div Ref 12.34 dB 34 1 66 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 8 100 MHz 8 100 kHz 8 100 kHz 1 1 1 1 1 1	AC 100000 GHz P F dB 3m 3m 4 2.401 7 GHz 25.627 4 GHz 4.804 3 GHz 7.206 0 GHz	N0: Fast → Tr Gain:Low ## 50.765 dBm -50.765 dBm -50.831 dBm -50.886 dBm	ig: Free Run Itten: 20 dB	#Avg Tyr Avg Hold	d: 10/10	10:44:12 AM Mar 24, 22 TRACE 12 3 4 TYPE MARK DET P NNN Alkr1 2.401 7 GH -5.042 dB1 -23:10 d -23:10 d -23:10 d -23:10 d -23:10 d -23:10 d
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 Ref 12.34 dB 33 1 1 66 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 77 1 1 8 1 1 1 1 1 2 1 1 3 1 1	AC 100000 GHz P F dB 3m 3 4 4 4 2.401 7 GHz 2.401 7 GHz 4.804 3 GHz	NO: Fast Tr Gain:Low	ig: Free Run Itten: 20 dB	#Avg Tyr Avg Hold	d: 10/10	10:44:12 AM Mar 24, 20 TRACE [] 2 3 4 TYPE MUMM DET P NNN Alkr1 2.401 7 GH -5.042 dBI -23:10 d -23:10 d 24 -23:10 d -23:10 d
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB dB/div Ref 12.34 dB 34 1 66 1 77 1 7 1	AC 100000 GHz P F dB 3m 3m 4 2.401 7 GHz 25.627 4 GHz 4.804 3 GHz 7.206 0 GHz	N0: Fast → Tr Gain:Low ## 50.765 dBm -50.765 dBm -50.831 dBm -50.886 dBm	ig: Free Run Itten: 20 dB	#Avg Tyr Avg Hold	d: 10/10	10:44:12 AM Mar 24, 21 TRACE [] 23 4 TYPE MWWW DET P NNN Alkr1 2.401 7 GH -5.042 dB -23:10 d -23:10 d
RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.34 dB/div Ref 12.34 dB dB/div Ref	AC 100000 GHz P F dB 3m 3m 4 2.401 7 GHz 25.627 4 GHz 4.804 3 GHz 7.206 0 GHz	N0: Fast → Tr Gain:Low ## 50.765 dBm -50.765 dBm -50.831 dBm -50.886 dBm	ig: Free Run Itten: 20 dB	#Avg Tyr Avg Hold	d: 10/10	10:44:12 AM Mar24, 20 12:34 14:12 AM Mar24, 20 12:34 17:76 12:34 17:76 12:34 17:76 12:34 17:76 12:34 12

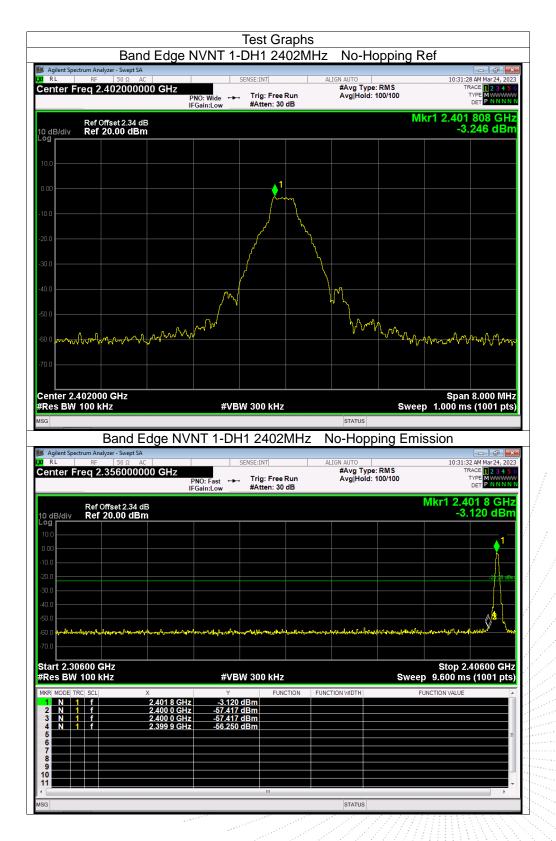


Agilent Spectrum Analyzer - Swept R L RF 50 Ω	AC	SENSE:INT	ALIGN AL		10:45:49 AM Mar 24, 2
enter Freq 2.441000	PNO	D:Wide ⊶⊶. Trig:Fr ain:low #Atten:	ee Run Av	vg Type: RMS g Hold: 100/100	TRACE 1 2 3 4 TYPE MWWW DET P N N N
Ref Offset 2.36		ain:Low #Atten:	20 00	Mkr1	2.441 139 05 G
dB/div Ref 12.36 dE					-3.152 dB
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54 _ 1 m/ W	and managements		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MM MANYA ANDAM	MAA .
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enter 2.4410000 GHz					Span 1.500 M
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	Tx. Spuriou	us NVNT 3-D		z Emission	
Agilent Spectrum Analyzer - Swept	SA .	JS NVNT 3-D		z Emission	(記) 10:46:20 AM Mar 24, 2
Agilent Spectrum Analyzer - Swept RL RF 50 Ω	AC AC AC AC AC AC AC AC AC AC AC AC AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	z Emission	10:46:20 AM Mar 24, 2 TRACE 1234
Agilent Spectrum Analyzer - Swept RL RF 50 Ω Inter Freq 13.26500	AC DOOOOO GHZ PN IFG	SENSE:INT	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mar 24, 2 TRACE 1 2 3 4 TYPE M WWW DET P N N N
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl	AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mar 24, 2 TRACE 1234
Agilent Spectrum Analyzer - Swept RL № 50 Ω enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dI g 1	AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mar24, 2 TRACE 1234 TYPE DET PNNN Mkr1 2.441 4 GH
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl g 1 3 4	AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mr24, 2 TRACE [] 23 4 TYPE MUNY DET P NNN Mkr1 2.441 4 GF -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl 9 1 1 1 1 1 1 1 1 1 1 1 1 1	AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mar24, 2 TRACE 1234 TYPE DET PNNN Mkr1 2.441 4 GH
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl 9 1 1 1 1 1 1 1 1 1 1 1 1 1	AC A	SENSE:INT 0: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mr24, 2 TRACE [] 23 4 TYPE MUNY DET P NNN Mkr1 2.441 4 GF -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl 9 1 1 1 1 1 1 1 1 1 1 1 1 1	AC A	SENSE:INT O: Fast →→ Trig: Fr	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mr24, 2 TRACE [] 23 4 TYPE MUNY DET P NNN Mkr1 2.441 4 GF -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dI	AC A	SENSE:INT O: Fast ain:Low → #Atten:	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mr24, 2 TRACE [] 23 4 TYPE MUNY DET P NNN Mkr1 2.441 4 GF -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.265000	AC A	SENSE:INT O: Fast ain:Low → #Atten:	H1 2441MH2 ALIGN AL Ree Run Av	Z Emission JTO vg Type: RMS g Hold: 10/10	10:46:20 AM Mr24; 2 TRACE 2 3 4 TYPE 3 1 OFF P NNN Mkr1 2.441 4 GH -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl g f dB/div Ref 12.36 dl g att 30 MHz	AC A	SENSE:INT O: Fast ain:Low → #Atten:	H1 2441MHz	z Emission	10:46:20 AM Mr24, 2 TRACE [] 23 4 TYPE MUNY DET P NNN Mkr1 2.441 4 GF -7.201 dB
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dI g g g g g g g g g g g g g	SA AC D00000 GHz PN IFG S dB Bm ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	SENSE:INT O: Fast ain:Low → Trig: Fr #Atten:	H1 2441MHz	z Emission	10:46:20 AM Mr24, 2 TRACE 2:34 TYPE 2:4 TYPE 2:4 DET P NNN Mkr1 2.441 4 GF -7.201 dB -2:315
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl g dB/div Ref 12.36 dl g 1 4 6 6 6 6 6 6 6 6 6 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1	AC AC D00000 GHz PN IFG BM AC PN PN PN PN PN PN PN PN	SENSE:INT O: Fast ain:Low → Trig: Fr #Atten: 5 5 #VBW 300 kł Y F -7.201 dBm -63.744 dBm	H1 2441MHz	z Emission	10:46:20 AM Mr24; 2 TRACE [] 2 4 TYPE [DET P NNN Mkr1 2.441 4 GF -7.201 dB -23:15 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dI g g g g g g g g g g g g g	SA AC D00000 GHz PN IFG S dB Bm 4 4 4 4 4 4 4 2.441 4 GHz 25.660 9 GHz	SENSE:INT O: Fast → Trig: Fr #Atten:	H1 2441MHz	z Emission	10:46:20 AM Mr24; 2 TRACE [] 2 4 TYPE [DET P NNN Mkr1 2.441 4 GF -7.201 dB -23:15 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dI 9 1 1 1 1 1 1 1 1 1 1 1 1 1	SA AC D00000 GHz PN IFG S dB Bm AC PN PN AC PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG S dB Bm S S S S S S S S S S S S S	SENSE:INT O: Fast → Trig: Fr #Atten:	H1 2441MHz	z Emission	10:46:20 AM Mr24; 2 TRACE [] 2 4 TYPE [DET P NNN Mkr1 2.441 4 GF -7.201 dB -23:15 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 13.26500 Ref Offset 2.36 dB/div Ref 12.36 dl g g dB/div Ref 12.36 dl g att 30 MHz Res BW 100 kHz R MODE TRC SCL N 1 f N 1 f N 1 f N 1 f N 1 f	SA AC D00000 GHz PN IFG S dB Bm AC PN PN AC PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG PN IFG S dB Bm S S S S S S S S S S S S S	SENSE:INT O: Fast → Trig: Fr #Atten:	H1 2441MHz	z Emission	10:46:20 AM Mr24; 2 TRACE [] 2 4 TYPE [DET P NNN Mkr1 2.441 4 GF -7.201 dB -23:15 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2

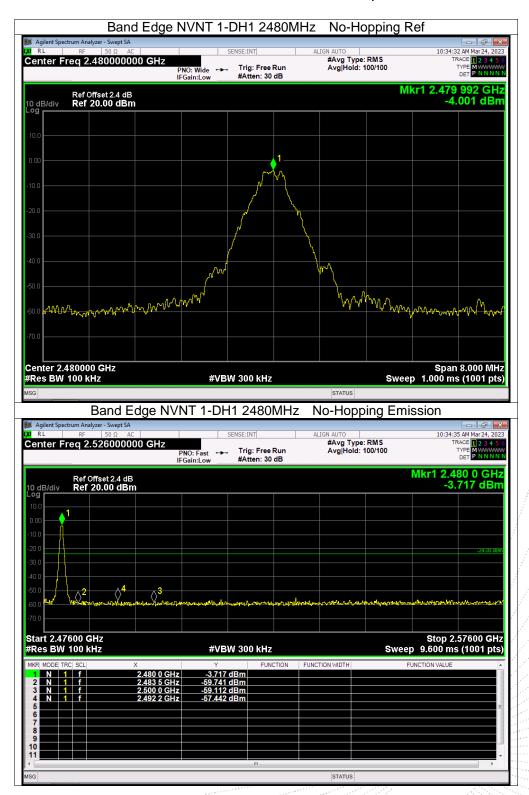


Agilent Spectrum Analyzer - Swept S R L RF 50 Ω		CENCE-T	NT J	ALIGN AUTO		10:48:37 AM Mar 24, 20
enter Freq 2.480000	000 GHz	SENSE:I	g: Free Run	ALIGN AUTO #Avg Type: Avg Hold: 1		TRACE 1 2 3 4
			ten: 20 dB	Avg[hold: 1		TYPE MWWW DET PNNN
Ref Offset 2.4 d					Mkr1 2.	480 137 95 GH -3.677 dB
dB/div Ref 12.40 dE	şm					-0.011 dB
40						
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enter 2.4800000 GHz			<u> </u>		0	Span 1.500 MI
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	Ty Spurio	us NVNT 3			mission	
Agilent Spectrum Analyzer - Swept S					111551011	
RL RF 50 Ω enter Freg 13.26500	AC 0000 GHz	SENSE:I	NT	ALIGN AUTO #Avg Type:	RMS	10:49:09 AM Mar 24, 2 TRACE 1 2 3 4
	Р		j: Free Run ten: 20 dB	Avg Hold: 1	10/10	
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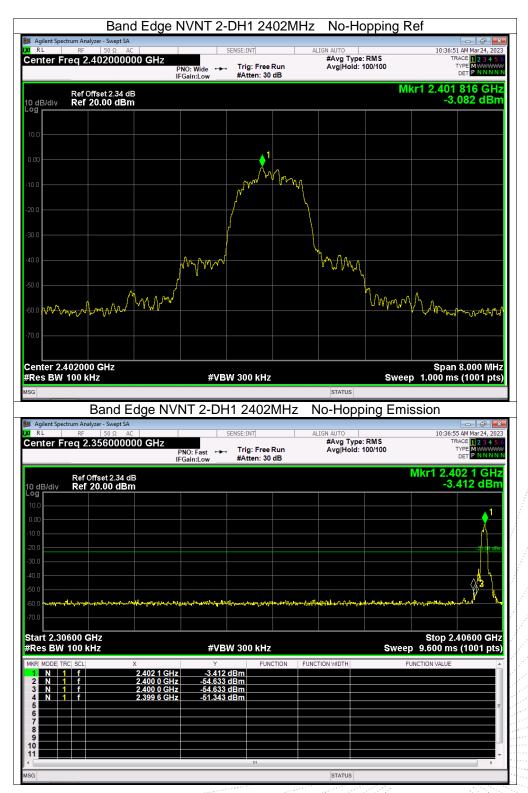




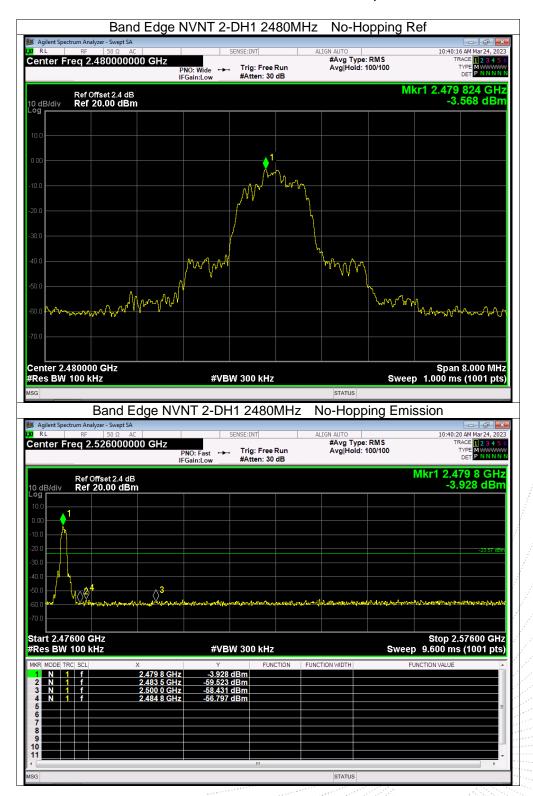








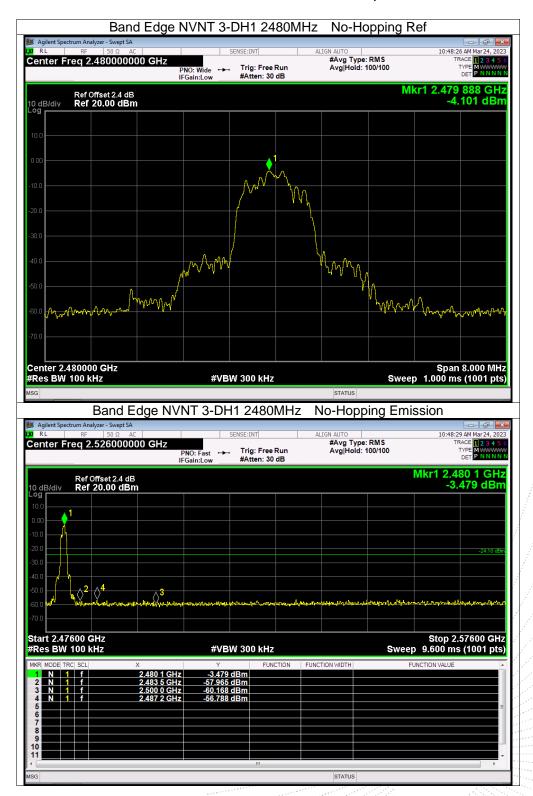














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Page: 47 of 84



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Band Ec	AC AC IOOOO GHZ IFGa	SENSE:INT	Free Run	MHZ HC	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE 2 34 TYPE MWWW DET P NNN
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Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 0 d Ref Offset 2.3 0 dB/div Ref 20.00 c 0 d Ref 0 dfset 2.3 0 d Ref 0 dfset 2.3	AC 00000 GHz PNC IFGe 34 dB JBm 00000 GHz PNC IFGe 34 dB	SENSE:INT	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 dB/div Ref Offset 2.3 dB/div Ref 20.00 d 0 0 0.0 0 <td>AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC</td> <td>SENSE:INT D: Fast Trig: in:Low #Atte #VBW 300</td> <td>Free Run n: 30 dB</td> <td>MHZ HC</td> <td>RMS 000/2000</td> <td>10:55:21 AM Mar 24, 2 TRACE [] 2 4 TYPE P MM AKr1 2.403 8 GI -3.259 dB</td>	AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast Trig: in:Low #Atte #VBW 300	Free Run n: 30 dB	MHZ HC	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 2 4 TYPE P MM AKr1 2.403 8 GI -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 0 dB/div Ref 20.00 d 0 dB/div Ref	AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast → Trig: in:Low #Atte #VBW 300 -3.259 dBm -54.097 dBm -54.097 dBm	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 00000 GHz PNC PNC PNC PAC PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast →→ Trig: in:Low #Atte	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.355600 CB/div Ref Offset 2.3 D dB/div Ref 20.00 c O 0 0.0 0	AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast → Trig: in:Low #Atte #VBW 300 -3.259 dBm -54.097 dBm -54.097 dBm	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 Agilent Spectrum Analyzer - Sweg RL RF 50 Ω add/div Ref Offset 2.3 add/div Ref 20.00 c add/div Ref 2.3 add/div Add/div add/d	AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast → Trig: in:Low #Atte #VBW 300 -3.259 dBm -54.097 dBm -54.097 dBm	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB
Band Ec Agilent Spectrum Analyzer - Sweg RL RF 50 Q enter Freq 2.35600 dB/div Ref Offset 2.3 dB/div Ref 20.00 d 00	AC 00000 GHz PNC PNC PNC PNC PNC PNC PNC PNC	SENSE:INT D: Fast → Trig: in:Low #Atte #VBW 300 -3.259 dBm -54.097 dBm -54.097 dBm	Free Run n: 30 dB	MHz Hc	RMS 000/2000	10:55:21 AM Mar 24, 2 TRACE [] 24 TPPE 9 Akr1 2.403 8 G -3.259 dB



Band E	Edge(Hopp	oing) NVN	T 2-DH1	2480MHz	Hopping	Ref
Agilent Spectrum Analyzer - Swept Sv RL RF 50 Ω v Center Freq 2.44800000	AC 000 GHz PNC		INT g: Free Run tten: 30 dB	ALIGN AUTO #Avg Type Avg Hold: 5	: RMS 2000/2000	10:57:14 AM Mar 24, 2023 TRACE 1 2 3 4 5 6 TYPE M
Ref Offset 2.4 dl 10 dB/div Ref 20.00 dB	B m				Mkr	1 2.477 888 GHz -4.254 dBm
10.0						
0.00	1					
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-70.0						
Center 2.480000 GHz						Span 8.000 MHz
#Res BW 100 kHz		#VBW 30	U KHZ	STATUS	Sweep	1.000 ms (1001 pts)
				514105		
	je(Hopping	g) NVNT 2	-DH1 24		opping Er	
J Agilent Spectrum Analyzer - Swept SA	A AC DOO GHz PN	SENSE: IO: Fast ↔ Tri			RMS	nission 10:57:48 AM Mar 24, 2023 TRACE 0 23 4 5 0 TYPE M
Agilent Spectrum Analyzer - Swept Sr RL	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 AM Mar 24, 2023 TRACE 1 2 3 4 5 6 TYPE M MANAAAAA
Agilent Spectrum Analyzer - Swept Si RL RF 50 Q / Center Freq 2.5260000	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 AM Mar24, 2023 TRACE 12 34 5 6 TYPE MARTINE DET PNNNNN Kr1 2.478 8 GHZ
Agilent Spectrum Analyzer - Swept Si RL RF 50.0 Center Freq 2.5260000 Ref Offset 2.4 d 10 dB/div Ref 20.00 dB 10.0 10.0	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 AM Mar24, 2023 TRACE 12 34 5 6 TYPE MARTINE DET PNNNNN Kr1 2.478 8 GHZ
Agilent Spectrum Analyzer - Swept Si RL RF 50 Ω Center Freq 2.5260000 Ref Offset 2.4 d 10 dB/div Ref 20.00 dB 10.0 1 0.00 1	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 AM Mar24, 2023 TRACE 12 34 5 6 TYPE MARTINE DET PNNNNN Kr1 2.478 8 GHZ
Mailent Spectrum Analyzer - Swept Si W RL RE 50 Q Center Freq 2.5260000 Ref Offset 2.4 d 10 dB/div Ref 20.00 dB 10.0 10.0 10.0 10.0	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 AM Mar24, 2023 TRACE 12 34 5 6 TYPE MARTINE DET PNNNNN Kr1 2.478 8 GHZ
Agilent Spectrum Analyzer - Swept Si W RL RF S0 Q Center Freq 2.5260000 Ref Offset 2.4 d Ref 20.00 dB 10 dB/div Ref 20.00 dB 100 1 0 100 1 0 100 1 0 100 1 0 100 1 0 100 1 0 100 1 0 -00 1 0 -00 1 0 -00 -0 -0 -00 -0 -0 -00 -0 -0 -00 -0 -0 -00 -0 -0 -00 -0 -0 -00 -0 -0 -00 -0 -0	A AC DOOD GHZ PN IFG B	SENSE: IO: Fast ↔ Tri	INT g: Free Run	80MHz Ho	: RMS 2000/2000	10:57:48 АМ Маг24, 2023 ТРАСЕ I 2 2 4 25 ТРАСЕ I 2 2 4 5 ТРЕЕ ИМИНИКИ ВЕТ ИМИНИКИ КГТ 2.478 8 GHz -3.593 dBm -24.25 dbm
Agilent Spectrum Analyzer - Swept Si W RL RF S0 Q Center Freq 2.5260000 Ref Offset 2.4 d Ref 20.00 dB 10 dB/div Ref 20.00 dB 100 1 1 200 1 1 300 1 1 -0.00 1 1 -0.00 1 1 -0.00 1 -0.00 -0.00 2 4 -0.00 4 2 4 -0.00 4 2 4 -0.00 4 2 4 -0.00 4 2 4 -0.00 4 4 4 -0.00 4 4 4 -0.00 4 4 4 -0.00 4 4 4 -0.00 4 4 4 -0.00 4 4 4 -0.00 4 4 4 <	AC DOO GHz PN IFG B m June A June A A A June A A A A A A A A A A A A A A A A A A A	SENSE: IO: Fast ↔ Tri	g: Free Run tten: 30 dB	80MHz He	RMS 2000/2000 M	Lis57.48 AM Mar24, 2023 TRACE 12.34 TYPE MANANANA EET PINNINN kr12.478 8 GHz -3.593 dBm
Agilent Spectrum Analyzer - Swept Si W RL RF S0 Q Center Freq 2.5260000 Ref Offset 2.4 d Ref 20.00 dB 10 Gamma Ref 20.00 dB 10 1 1 1 20 1 2 4 40.0 40.0 40.0 40.0 40.0 50.0 40.0	AC D00 GHz PN IFG B m 3 2.478 8 GHz 2.483 5 GHz	SENSE: IO: Fast →→ Tri ain:Low → #A #VBW 30 Y -3.593 dBm -57.725 dBm	g: Free Run tten: 30 dB	80MHz Ho	RMS 2000/2000 M	10:57:48 AM Mar 24, 2023 TRACE 12 23 45 TYPE MANNAN CET DIMININ Kr1 2:4778 8 GHz -3.593 dBm -24.25 d5m -24.25 d5m -24.25 d5m -24.25 d5m
Agilent Spectrum Analyzer - Swept S M RL RF 50 Q Center Freq 2.5260000 Ref Offset 2.4 d Ref Offset 2.4 d Ref 20.00 dB 10 dB/div Ref 20.00 dB 10 dB/div Ref 20.00 dB 200 1 200 2 40.0 4 20.0 4 30.0 4 8 2 4 40.0 4 4 1 1 1 1 1 1 1 3 1 1 1 1 1 5 1 1 1 1 1	A AC DOOD GHz PN IFG B m 3	O: Fast → Tri ain:Low → #A	g: Free Run tten: 30 dB	80MHz He	RMS 2000/2000 M	Lis57.48 AM Mar24, 2023 TRACE 12.34 TYPE MANANANA EET PINNINN kr12.478 8 GHz -3.593 dBm
Agilent Spectrum Analyzer - Swept S W RL RF 50 Q Center Freq 2.5260000 Ref Offset 2.4 d Ref 20.00 dB Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io <thio< th=""> Io Io</thio<>	A AC D000 GHz PN IFG B m 4 2.478 8 GHz 2.478 8 GHz 2.483 5 GHz 2.500 0 GHz	0: Fast ↔ Tri ain:Low #A #VBW 30 ¥VBW 30 Y -3.593 dBm -57.725 dBm	g: Free Run tten: 30 dB	80MHz He	RMS 2000/2000 M	10:57:48 AM Mar 24, 2023 TRACE 12 2 45 TYPE MANNAN bet PNNNN kr1 2.478 8 GHz -3.593 dBm -24-25 dbn -24-25 dbn -3.57600 GHz 9.600 ms (1001 pts) CTION VALUE
Agilent Spectrum Analyzer - Swept Si W RL RF 50 Ω Center Freq 2.5260000 Ref Offset 2.4 d Ref 20.00 dB Io Io Ref 20.00 dB Io Io Io Io Io Ref 0ffset 2.4 d Io Io Io Io Ref 0ffset 2.4 d Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io Io <td>Ac AC D000 GHz PN IFG B M AC PN IFG IFG IF</td> <td>0: Fast ↔ Tri ain:Low #A #VBW 30 ¥VBW 30 Y -3.593 dBm -57.725 dBm</td> <td>g: Free Run tten: 30 dB</td> <td>80MHz He</td> <td>RMS 2000/2000 M</td> <td>10:57:48 AM Mar 24, 2023 TRACE 12 2 45 TYPE MANNAN bet PNNNN kr1 2.478 8 GHz -3.593 dBm -24-25 dbn -24-25 dbn -3.57600 GHz 9.600 ms (1001 pts) CTION VALUE</td>	Ac AC D000 GHz PN IFG B M AC PN IFG IFG IF	0: Fast ↔ Tri ain:Low #A #VBW 30 ¥VBW 30 Y -3.593 dBm -57.725 dBm	g: Free Run tten: 30 dB	80MHz He	RMS 2000/2000 M	10:57:48 AM Mar 24, 2023 TRACE 12 2 45 TYPE MANNAN bet PNNNN kr1 2.478 8 GHz -3.593 dBm -24-25 dbn -24-25 dbn -3.57600 GHz 9.600 ms (1001 pts) CTION VALUE



	Band E	age(Hop	ping) N	VNI 3-L	JH1 240	JZIVIHZ	Hoppin	g Ref	
Agilent Spectrum A	F 50 Ω AC	00 GHz	PNO: Wide	SENSE:INT . Trig: Free #Atten: 30	Run	LIGN AUTO #Avg Type Avg Hold:	: RMS 2000/2000	TR	AM Mar 24, 2023 AACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N
10 dB/div Re	f Offset 2.34 dE f 20.00 dB m	3					M	(r1 2.405 -3.	816 GHz 367 dBm
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-60.0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	maria	MM							
-70.0									
Center 2.4020	000 GHz							Span	8.000 MHz
#Res BW 100	kHz		#VB	W 300 kHz		STATUS	Sweep		; (1001 pts)
						STATUS			
	and Edge	e(Hoppir	ng) NVN	T 3-DH	1 2402		opping E	mission	1
🚺 Agilent Spectrum A 🙀 R L 🛛 Ri	Analyzer - Swept SA F 50 Ω AC	00 GHz	PNO: Fast	SENSE:INT	Run		: RMS	10:58:4 TR	7 AM Mar 24, 2023 ACCE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N
Agilent Spectrum A WRL N Center Freq Re	Analyzer - Swept SA F 50 Ω AC 2.3560000 f Offset 2.34 dl	00 GHz		SENSE:INT	Run	AHZ H	: RMS 2000/2000	10:58:43 TR T Mkr1 2.44	
Agilent Spectrum A RL R Center Freq Re	Analyzer - Swept SA F 50 Ω AC 2.3560000 0	00 GHz	PNO: Fast	SENSE:INT	Run	AHZ H	: RMS 2000/2000	10:58:43 TR T Mkr1 2.44	7 AM Mar 24, 2023 ACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N
Agilent Spectrum A Center Freq Center Freq 10 dB/div Re	Analyzer - Swept SA F 50 Ω AC 2.3560000 f Offset 2.34 dl	00 GHz	PNO: Fast	SENSE:INT	Run	AHZ H	: RMS 2000/2000	10:58:43 TR T Mkr1 2.44	
Agilent Spectrum A XX RL RJ Center Freq 10 dB/div Re 10 dB/div Re 10 0	Analyzer - Swept SA F 50 Ω AC 2.3560000 f Offset 2.34 dl	00 GHz	PNO: Fast	SENSE:INT	Run	AHZ H	: RMS 2000/2000	10:58:43 TR T Mkr1 2.44	
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Agilent Spectrum A Agilent Spectrum A Center Freq 10 dB/div Re 10 0 10 0 -0 0	Analyzer - Swept SA F 50 Ω AC 2.3560000 f Offset 2.34 dl	00 GHz	PNO: Fast	SENSE:INT	Run	AHZ H	: RMS 2000/2000	10:58:43 TR T Mkr1 2.44	2017 USA
Agilent Spectrum A Agilent Spectrum A Center Freq 10 dB/div Re 10 0 0 00 -10 0 -20 0 -30 0 -40 0 -50 0 -50 0 Start 2.30600	Analyzer - Swept SA F 50 Q AC 2.355600000 f Offset 2.34 dl f 20.00 dBn	00 GHz	PNO: Fast -Gain:Low	SENSE:INT	Run dB	AHZ H	: RMS 2000/2000	10:58:4 TR Mkr1 2.4 -3.	2 AM Mar 24, 2023 7 AM Mar 24, 2023 7 YPE M AMAR 24, 2023 7 YPE M
Agilent Spectrum A K RL RI Center Freq Re 10 dB/div Re 10 dB/div Re 10 dB/div Re 0 dB/div Re 30 0	Analyzer - Swept SA F 50 Q AC 2.355600000 f Offset 2.34 dl f 20.00 dBn g 4 db f 20.00 dBn g 4 db f 20.00 dBn g 4 db g 4 d	B A A A A A A A A A A A A A	PNO: Fast Gain:Low #VB	SENSE:INT Trig: Free #Atten: 30 W 300 kHz	Run dB	AHZ H	: RMS 2000/2000	10:58:44 тк М kr1 2.44 -3.	2 AM Mar 24, 2023 7 AM Mar 24, 2023 7 YPE M AMAR 24, 2023 7 YPE M
Agilent Spectrum A R RI RI Center Freq Re 10 dB/div Re 20 dB/div Re 10 dB/div Re 30 dB/div Re 10 dB/div Re 30 dB/div Re 10 dB/div 1 dB/div	Analyzer - Swept SA F 50 Ω AC 2.355600000 f Offset 2.34 di f 20.00 dBn GHz kHz L	00 GHz F F B 0 2.400 8 GHz 2.400 0 GHz 2.400 0 GHz	PNO: Fast Gain:Low #VB 	SENSE:INT Trig: Free #Atten: 30 #Atten: 30 W 300 kHz W 300 kHz GBm dBm	Run dB	AHZ H	: RMS 2000/2000	<u>10:58:44</u> тк Мkr1 2.44 -3. -3. -3. -3. -3. -3. -3. -3. -3. -3.	2 AM Mar 24, 2023 AM M
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Agilent Spectrum A Agilent Spectrum A X RL RI Center Freq O dB/div Re 10.0	Analyzer - Swept SA F 50 Ω AC 2.355600000 f Offset 2.34 di f 20.00 dBn GHz kHz L	00 GHz F F B 0 2.400 8 GHz 2.400 0 GHz 2.400 0 GHz	PNO: Fast Gain:Low #VB 	SENSE:INT Trig: Free #Atten: 30 #Atten: 30 W 300 kHz W 300 kHz GBm dBm	Run dB	AHZ H	: RMS 2000/2000	<u>10:58:44</u> тк Мkr1 2.44 -3. -3. -3. -3. -3. -3. -3. -3. -3. -3.	2017 000 40600 GHz
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Band Agilent Spectrum Analyzer - Swep		oing) NVNT	3-DH1 2480	MHz Hopp	- T	- 6
RL RF 50 Ω Senter Freq 2.48000	0000 GHz		Free Run	AUTO #Avg Type: RMS Avg Hold: 2000/2000	11:00:38 AM TRACE	
Ref Offset 2.4	dB	Gain:Low #Atte	en: 30 dB		Mkr1 2.476 89	96 GH
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		#VDVV 300	kHz	3₩	eep 1.000 ms (1	00 I P
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SG Band Ec Agilent Spectrum Analyzer - Swep Swep RL RF S0 Q Center Freq 2.526000 Sector Freq 2.526000 Code/div Ref Offset 2.4 Code/div Ref 20.00 d Code/div Ref 20.00 d Code/div Ref 20.00 d Code/div Ref 2.47600 GHz Code Code/div Ref Sector GHz Sector GHz Ref Sector GHz Sector GHz Ref MODE TRC SCL I I I I I I I I I		g) NVNT 3 SENSE:IN IO: Fast → Trig: Jain:Low #Attu #VBW 300 ¥VBW 300 Y -3.649 dBm 57.625 dBm	DH1 2480MH	STATUS 12 Hopping AUTO AUTO AV03 Type: RMS Av03 Hold: 2000/2000	2 Emission	Mar 24, 22 II 2 3 4, 1 II 2 3
SG Band Ec Agilent Spectrum Analyzer - Swep RL RF 50 Q center Freq 2.526000 Ref Offset 2.4 0 dB/div Ref 20.00 d 9 1 0 dB/div 2 0 dB/div 4	AC AC AC AC AC PN IFC AB Bm A AC PN IFC AB AC PN IFC AB AC AC PN IFC AB AC AC AC AC AC AC AC AC AC AC	g) NVNT 3 SENSE:IN IO: Fast ain:Low → Trig: #Attr #Attr #Attr #VBW 3000 Y -3.649 dBm -58.163 dBm	DH1 2480MH	STATUS 12 Hopping AUTO AUTO AV03 Type: RMS Av03 Hold: 2000/2000	2 Emission	Mar 24, 20 12 3 4 12 4 1
Agilent Spectrum Analyzer - Swep RL RF S0 Ω enter Freq 2.52600 Ref Offset 2.4 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 2 0 0 2 0 0 2 0 0 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AC AC AC AC AC PN IFC AB Bm A AC PN IFC AB AC PN IFC AB AC AC PN IFC AB AC AC AC AC AC AC AC AC AC AC	g) NVNT 3-I SENSE:IN IO: Fast → Trig: #Attended #VBW 300 ¥VBW 300 Y -3.649 dBm -57.625 dBm -58.163 dBm -55.796 dBm	DH1 2480MH	STATUS 12 Hopping AUTO AUTO AV03 Type: RMS Av03 Hold: 2000/2000	2 Emission	Mar 24, 20 12 3 4 12 4 1



10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.928	Pass
NVNT	1-DH1	2441	0.855	Pass
NVNT	1-DH1	2480	0.856	Pass
NVNT	2-DH1	2402	1.276	Pass
NVNT	2-DH1	2441	1.292	Pass
NVNT	2-DH1	2480	1.277	Pass
NVNT	3-DH1	2402	1.259	Pass
NVNT	3-DH1	2441	1.269	Pass
NVNT	3-DH1	2480	1.274	Pass









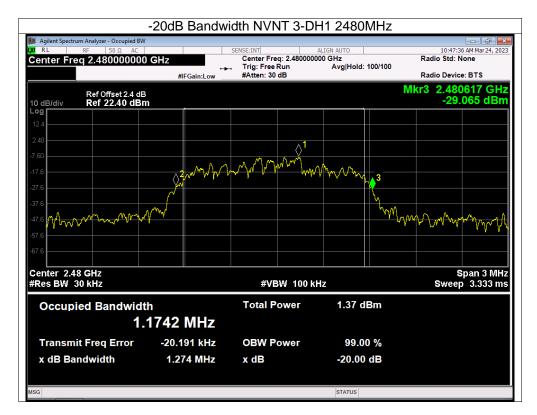












No.: BCTC/RF-EMC-007

Page: 58 of 84



11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

	FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS				

11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

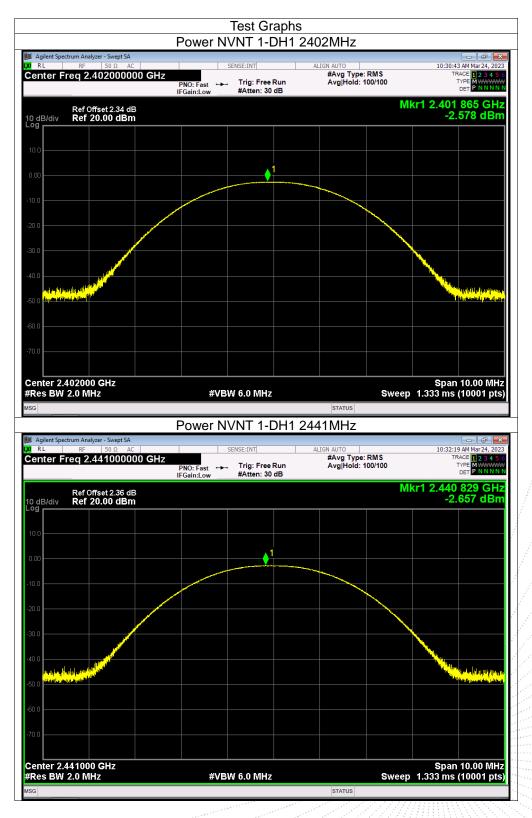
2. Set the spectrum analyzer: RBW = 3MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak.

3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

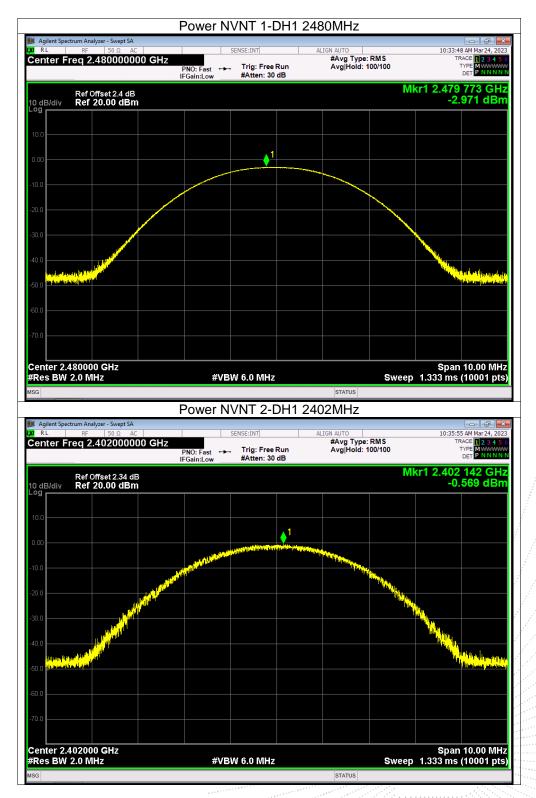
11.4 Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-2.58	21	Pass
NVNT	1-DH1	2441	-2.66	21	Pass
NVNT	1-DH1	2480	-2.97	21	Pass
NVNT	2-DH1	2402	-0.57	21	Pass
NVNT	2-DH1	2441	-0.53	21	Pass
NVNT	2-DH1	2480	-0.84	21	Pass
NVNT	3-DH1	2402	0.54	21	Pass
NVNT	3-DH1	2441	0.57	21	Pass
NVNT	3-DH1	2480	0.01	21	Pass

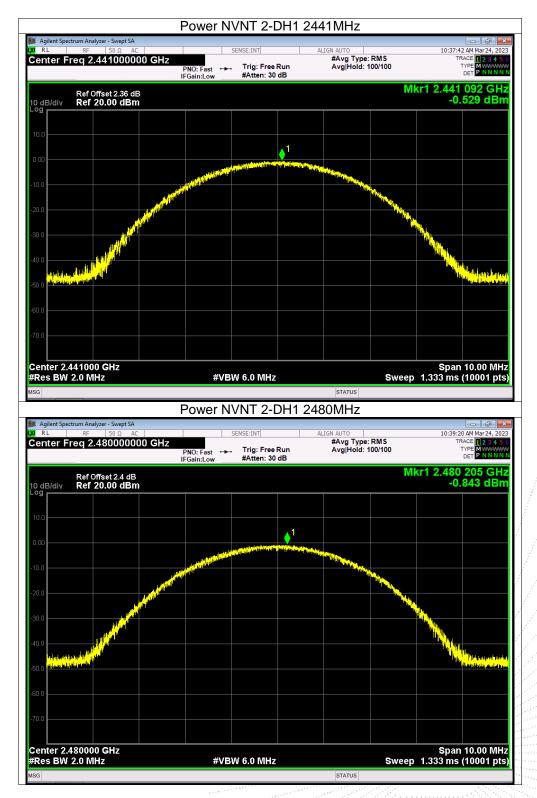




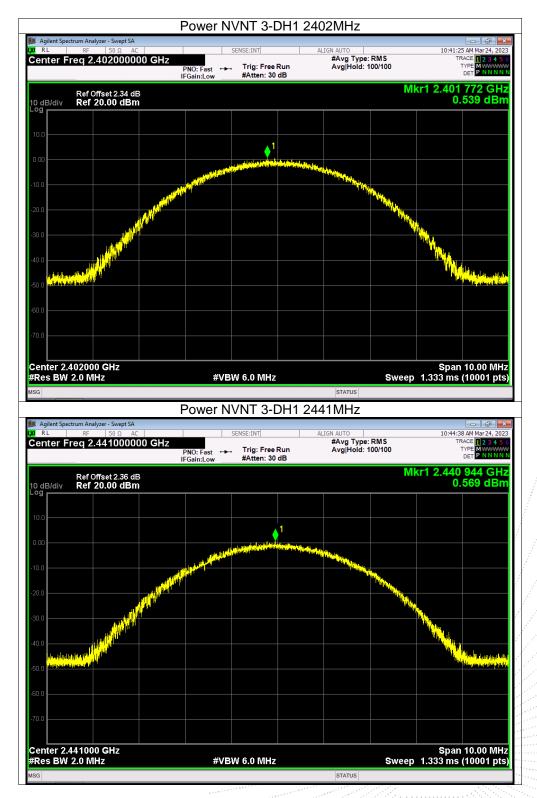




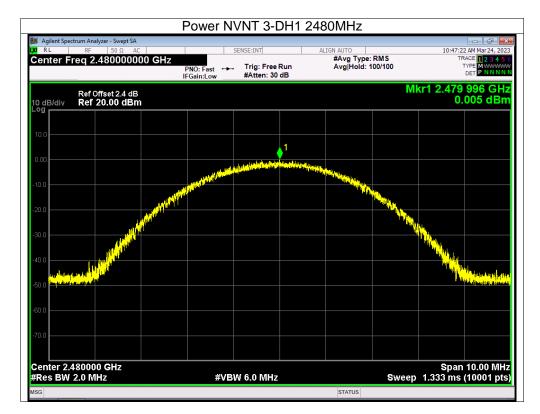












Page: 64 of 84



12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

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 0.125W.

12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.808	2402.808	1.000	0.928	Pass
NVNT	1-DH1	2440.808	2441.808	1.000	0.855	Pass
NVNT	1-DH1	2478.806	2479.806	1.000	0.856	Pass
NVNT	2-DH1	2401.806	2402.804	0.998	0.851	Pass
NVNT	2-DH1	2440.804	2441.806	1.002	0.861	Pass
NVNT	2-DH1	2478.804	2479.806	1.002	0.851	Pass
NVNT	3-DH1	2401.974	2402.974	1.000	0.839	Pass
NVNT	3-DH1	2440.974	2441.976	1.002	0.846	Pass
NVNT	3-DH1	2478.976	2479.974	0.998	0.849	Pass

12.4 Test Result



Agilent Spectrum Analyzer - Swept	t SA	FS NVNT 1		-			@ E
RL RF 50 Ω enter Freq 2.40250	0000 GHz		Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	RMS 100/100	10:31:23 AM TRACE TYPE	Mar 24, 202 1 2 3 4 5 M P N N N N
	IFGa		n: 30 dB			DET 1 2.401 80	
Ref Offset 2.3 dB/div Ref 20.00 d	4 dB Bm					-4.242	2 dBm
.0				<u>^2</u>			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~
.0							
.0							
.0							
enter 2.402500 GHz						Span 2.0	00 MH:
es BW 30 kHz		#VBW 100 I				2.133 ms (10	001 pts
N 1 f	X 2.401 808 GHz 2.402 808 GHz	Y -4.242 dBm 4 242 dBm	FUNCTION F	UNCTION WIDTH	FUN	CTION VALUE	
N 1 f	2.402 808 GHz	-4.242 dBm					
				STATUS			•
	С	FS NVNT 1		status 41MHz			•
Agilent Spectrum Analyzer - Swept		FS NVNT 1	-DH1 24	41MHz			
Agilent Spectrum Analyzer - Swept RL RF 50 Ω	AC 0000 GHz	FS NVNT 1	-DH1 24 Free Run			10:32:59 AM TRACE	₩ar 24, 202
Agilent Spectrum Analyzer - Swept RL   RF   50 Ω Inter Freq 2.44150	AC A	FS NVNT 1	-DH1 24	A1MHZ ALIGN AUTO #Avg Type:	100/100	10:32:59 AM TRACE TYPE DET	Mar 24, 202 2 3 4 5 M P NNNN
Agilent Spectrum Analyzer - Swept RL RE 50 Ω Inter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC AC OOOO GHZ PNO IFGa 6 dB	FS NVNT 1	-DH1 24 Free Run	A1MHZ ALIGN AUTO #Avg Type:	100/100	10:32:59 AM TRACE	Mar 24, 202 1 2 3 4 5 M M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RF 50 Ω Inter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RF 50 Ω nter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	A1MHZ ALIGN AUTO #Avg Type:	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RE 50 Ω enter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RE 50 Ω nter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RE 50 Ω nter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M N N N P N N N N 8 GH2
Ref Offset 2.30 B/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M WWW P N N N N 8 GH
Agilent Spectrum Analyzer - Swept RL RE 50 Ω nter Freq 2.441500 Ref Offset 2.30 dB/div Ref 20.00 d	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24 Free Run	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM I TRACE TYPE DET 1 2.440 80	Mar 24, 202 1 2 3 4 5 M M N N N P N N N N 8 GH2
Agilent Spectrum Analyzer - Swept RL RF 50 Ω Inter Freq 2.441500 BIO BIO BIO C C C C C C C C C C C C C C C C C C C	AC PNO BM 6 dB BM	FS NVNT 1	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100	10:32:59 AM 1 TRACE TYPE DET 1 2.440 80 -4.301	Mar24, 202 12 3 4 5 Mar24, 202 12 3 4 5 12 4 12 4
Agilent Spectrum Analyzer - Swept RL RF 50 Q Inter Freq 2.441500 BIG BIG BIG BIG BIG BIG BIG BIG BIG BIG	AC PNO AC PNO IFGa 6 dB 6 m	FS NVNT 1 SENSE.INT Wide Trig: F #Atter	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100 Mkr	10:32:59 AM 1 TRACE TYPE DET 1 2.440 80 -4.30	Mar24, 202 12 3 4 5 Mar24, 202 12 3 4 5 12 4 12 4
Agilent Spectrum Analyzer - Swept RL RF 50 Ω Inter Freq 2.441500 Berline Ref 20.00 d Ref 20.00 d Comparison of the second s	ISA AC OOUOO GHZ PNO IFGa 6 dB Bm	FS NVNT 1	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100 Mkr	10:32:59 AM ( TRACE) TYPE DET <b>1 2.440 80</b> -4.301 -4.301 Span 2.0 2.133 ms (10	Mar24, 202 12 3 4 5 Mar24, 202 12 3 4 5 12 4 12 4
Agilent Spectrum Analyzer - Swept RL RF 50 Ω Enter Freq 2.441500 dB/div Ref 20.00 d Ref 0ffset 2.30 dB/div Ref 20.00 d a a a a a a a a a a a a a a a a a a a	25A AC AC PNO IFGa 6 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4	FS NVNT 1 SENSE:INT Wide Trig: F #Atter #Atter #VBW 100 I Y 4.308 dBm	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100 Mkr	10:32:59 AM ( TRACE) TYPE DET <b>1 2.440 80</b> -4.301 -4.301 Span 2.0 2.133 ms (10	Mar24, 202 12 3 4 5 Mar24, 202 12 3 4 5 12 4 12 4
Agilent Spectrum Analyzer - Swept RL RF 50 Q Inter Freq 2.441500 Bl/div Ref 20.00 d Bl/div Ref 20.00 d C C C C C C C C C C C C C C C C C C C	25A AC AC PNO IFGa 6 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4	FS NVNT 1 SENSE:INT Wide Trig: F #Atter #Atter #VBW 100 I Y 4.308 dBm	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100 Mkr	10:32:59 AM ( TRACE) TYPE DET 1 2.440 80 -4.30 4 -4.30 5 5 pan 2.0 2.133 ms (10	Mar24, 202 12 3 4 5 MMM MMMMM MMMMM MMMMM MMMMM MMMMM MMMMM
Agilent Spectrum Analyzer - Swept RL RF 50 Q enter Freq 2.441500 Bl/div Ref 2.00 d Ref 2.00 d f f f f f f f f f f f f f f f f f f f	25A AC AC PNO IFGa 6 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4	FS NVNT 1 SENSE:INT Wide Trig: F #Atter #Atter #VBW 100 I Y 4.308 dBm	-DH1 24	ALIGN AUTO #Avg Type: Avg Hold:>	100/100 Mkr	10:32:59 AM ( TRACE) TYPE DET 1 2.440 80 -4.30 4 -4.30 5 5 pan 2.0 2.133 ms (10	Mar24, 202 12 3 4 5 Mar24, 202 12 3 4 5 12 4 12 4



enter Freq 2.47		NO: Wide	SE:INT Trig: Free Run	ALIGN AUTO #Avg Type Avg Hold:3	: RMS >100/100	т	27 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
	IF	Gain:Low	#Atten: 30 dB		M	kr1 2.478	
Ref Offse dB/div Ref 20.0	et 2.4 dB 00 dBm					-4.	583 dBn
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0.0	<b>^</b>	~		2			
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0.0			~~~~				
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enter 2.479500 G Res BW 30 kHz	iHz	#\/B\M	100 kHz		Swee	Span 2.133 ms	2.000 MH:
	X	#¥B¥¥ Y	FUNCTION	FUNCTION WIDTH		UNCTION VALUE	s (1001 pts
1 N 1 f 2 N 1 f	2.478 806 GHz 2.479 806 GHz	-4.583 dB -4.554 dB	m m				
3							
5 6 7							
8							
0							
G							
				STATUS			
	(	CFS NVN	T 2-DH1	status 2402MHz			
Agilent Spectrum Analyzer -	- Swept SA					10:36:4	7 AM Mar 24, 202
Agilent Spectrum Analyzer - R L RF	- Swept SA 50 Ω AC 2500000 GHz PM	SEN	IT 2-DH1 SE:INT Trig: Free Run #Atten: 30 dB	2402MHz	>100/100	т	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse 0 dB/div Ref 20.1	- Swept SA 50 Ω AC 2500000 GHz PM	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse 0 dB/div Ref 20.1 9	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse D dB/div Ref 20.1 9g 0 0	- Swept SA 50 Ω AC 2500000 GHz PN IF( at 2.34 dB	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse d dB/div Ref 20.1 9 0 0 0 0	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse d dB/div Ref 20.1 9 00 00 00 00	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse 0 dB/div Ref 20.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer           RL         RF           enter Freq 2.403           Ref Offse           0 dB/div         Ref 20.1           9	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer           RL         RF           enter Freq 2.403           Ref Offse           D dB/div         Ref 20.1           O         O           0.0         O	- Swept SA 50 Q AC     25000000 GHz PP IF0 et 2.34 dB 00 dBm	SEN	SE:INT	2402MHz	>100/100	r <mark>1 2.401</mark>	7 AM Mar 24, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N N 806 GH
Agilent Spectrum Analyzer           RL         RF           enter Freq 2.403           Ref Offse           0 dB/div         Ref 20.1           99	- Swept SA 50 Q AC     2500000 GHz P P IF( 25234 dB 00 dBm	NO: Wide Gain:Low	SE:INT	2402MHz	>100/100	rr1 2.401 -6.	17 AM Mar 24, 202 RACE    2, 3, 4 5 PET P NNNN 806 GH: 264 dBm
Agilent Spectrum Analyzer           RL         RF           enter Freq 2.402           0 dB/div         Ref 20.0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0	- Swept SA 50 Q AC   P P P P P P P P P P P P P P	NO: Wide Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB	2402MHz	>100/100 MI	span 2.133 ms	17 AM Mar 24, 202 RACE    2, 3, 4 5 PET P NNNN 806 GH: 264 dBm
Agilent Spectrum Analyzer -           RL         RF           enter Freq 2.402           Ref Offse           D dB/div         Ref 20.1           9         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0         -           0.0	- Swept SA 50 Q AC     2500000 GHz P P IF( 25234 dB 00 dBm	NO: Wide Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB 100 kHz FUNCTION m	2402MHz	>100/100 MI	rr1 2.401 -6.	2.000 MH: s (1001 pts
Agilent Spectrum Analyzer - RL RF enter Freq 2.407 Ref Offse 0 dB/div Ref 20.1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Swept SA 50 @ AC     2500000 GHz PP IF( et 2.34 dB 00 dBm 1 1 4 2.34 dB 00 dBm 1 4 2.34 dB 00 dBm 1 4 2.34 dB 0 4 2.34 dB 2.34 dB 2	NO: Wide Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB 100 kHz FUNCTION m	2402MHz	>100/100 MI	span 2.133 ms	17 AM Mar 24, 202 RACE    2, 3, 4 5 PET P NNNN 806 GH: 264 dBm
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse 0 dB/div Ref 20.4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Swept SA 50 @ AC     2500000 GHz PP IF( et 2.34 dB 00 dBm 1 1 4 2.34 dB 00 dBm 1 4 2.34 dB 00 dBm 1 4 2.34 dB 0 4 2.34 dB 2.34 dB 2	NO: Wide Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB 100 kHz FUNCTION m	2402MHz	>100/100 MI	span 2.133 ms	17 AM Mar 24, 202 RACE    2, 3, 4 5 PET P NNNN 806 GH: 264 dBm
Agilent Spectrum Analyzer RL RF enter Freq 2.403 Ref Offse 0 dB/div Ref 20. 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0	- Swept SA 50 @ AC     2500000 GHz PP IF( et 2.34 dB 00 dBm 1 1 4 2.34 dB 00 dBm 1 4 2.34 dB 00 dBm 1 4 2.34 dB 0 4 2.34 dB 2.34 dB 2	NO: Wide Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB 100 kHz FUNCTION m	2402MHz	>100/100 MI	span 2.133 ms	17 AM Mar 24, 202 RACE    2, 3, 4 5 PET P NNNN 806 GH: 264 dBm



RL RF	zer - Swept SA 50 Ω AC	SENSE:II	T	ALIGN AUTO		.0:38:31 AM Mar 24, 202
	141500000 GHz	PNO: Wide 🕞 Tric	g: Free Run ten: 30 dB	#Avg Type: R Avg Hold:>10	RMS	TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Of 0 dB/div Ref 2	fset 2.36 dB 0.00 dBm				Mkr1 2.	440 804 GHz -6.277 dBm
o.o						
).00	^1			<mark>2</mark>		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
0.0						
0.0						
0.0						
0.0						
enter 2.441500						pan 2.000 MH
Res BW 30 kHz		#VBW 10	0 kHz	FUNCTION WIDTH	Sweep 2.13	3 ms (1001 pts
1 N 1 f 2 N 1 f	× 2.440 804 GH 2.441 806 GH	z -6.277 dBm	FUNCTION	FONCTION WIDTH	FUNCTION V	ALUE
3 4						
5						
7 8 9						
0						
G						Þ
-				STATUS		
		CFS NVNT	2-DH1 :	status 2480MH7		
		CFS NVNT		2480MHz		
RL RF	zer - Swept SA 50 Ω AC 1795000000 GHz	PNO: Wide			RMS	0:40:11 AM Mar 24, 202
RL RF enter Freq 2.4 Ref Of 0 dB/div Ref 2	50 Ω AC	PNO: Wide Trig	nt g: Free Run	2480MHz	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE WWWW DET PNNN
RL RF enter Freq 2.4 Ref Of O dB/div Ref 2	50 Ω AC 79500000 GHz fset 2.4 dB	PNO: Wide Trig	nt g: Free Run	ALIGN AUTO #Avg Type: R Avg Hold:>10	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE WWWW DET PNNN
RL RF enter Freq 2.4 Ref Of D dB/div Ref 2 90 0.0 0.0	50 Ω AC 79500000 GHz fset 2.4 dB	PNO: Wide Trig	nt g: Free Run	2480MHz	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
RL RF enter Freq 2.4 D dB/div Ref 0 0 0 0 0 0 0 0 0 0 0	50 Ω AC 179500000 GHz 15set 2.4 dB 0.00 dBm	PNO: Wide Trig	nt g: Free Run	ALIGN AUTO #Avg Type: R Avg Hold:>10	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
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RL RF enter Freq 2.4 Ref 0/ 0 dB/div Ref 0/ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	50 Ω AC 179500000 GHz 15set 2.4 dB 0.00 dBm	PNO: Wide Trig	nt g: Free Run	ALIGN AUTO #Avg Type: R Avg Hold:>10	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
RL RF enter Freq 2.4 Ref 07 o dB/div Ref 07 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	50 Ω AC 179500000 GHz 15set 2.4 dB 0.00 dBm	PNO: Wide Trig	nt g: Free Run	ALIGN AUTO #Avg Type: R Avg Hold:>10	RMS 00/100	0:40:11 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
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enter Freq 2.4	150 Ω AC 179500000 GHz 5set 2.4 dB 0.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PNO: Wide IFGein:Low Trig IFGein:Low #At	y: Free Run ten: 30 dB	2480MHz	Mkr1 2.4	C
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20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~	~~~~
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40.0 50.0						
60.0						
70.0						
enter 2.402500 G	Hz				Span	2.000 MH
Res BW 30 kHz		#VBW 100 kHz	2	Sweep	2.133 ms	(1001 pts
1 N 1 F	× 2.401 974 GHz	Y FUN -6.346 dBm	ICTION FUNCTION WIDTH	FU	JNCTION VALUE	
2 N 1 f 3	2.402 974 GHz	-6.307 dBm				
4 5						
6 7						
8						
G						
			STATUS			
	C	FS NVNT 3-D				
Agilent Spectrum Analyzer -	Swept SA)H1 2441MHz		10:45:44	@
Agilent Spectrum Analyzer -	Swept SA 50 Ω AC 50 GHz	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	pe: RMS d:>100/100	TR	AM Mar 24, 202
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Agilent Spectrum Analyzer - RL RF 5 enter Freq 2.441 Ref Offse 0 dB/div Ref 20.0	Swept SA 50 Ω AC I 5000000 GHz PN IFG t 2.36 dB	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	d:>100/100	TR. T (r1 2.440	AM Mar 24, 202 ACE 1 2 3 4 5 YPE MWWWW DET PNNNN 974 GH
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RL RF 5 enter Freq 2.441 Ref Offse 0 dB/div Ref 20.0 99 10 0 000 000	Swept SA 10 Q AC 1500000 GHz PNC 1FG 12.36 dB 10 dBm	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	à:>100/100	TR. T (r1 2.440	AM Mar 24, 202 ACE 1 2 3 4 5 YPE MWWW DET PNNNN 974 GH
RL RF S Ref Offset 0 dB/div Ref 20.0 9 0 0 00 0 0 00 0 0 00 0 0	Swept SA 10 Q AC 1500000 GHz PNC 1FG 12.36 dB 10 dBm	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	à:>100/100	TR. T (r1 2.440	AM Mar 24, 202 ACE 1 2 3 4 5 YPE MWWW DET PNNNN 974 GH
RL RF 5 Ref Offse 0 dB/div Ref 20.0 99 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0	Swept SA 10 Q AC 1500000 GHz PNC 1FG 12.36 dB 10 dBm	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	à:>100/100	TR. T (r1 2.440	AM Mar 24, 202 ACE 1 2 3 4 5 YPE MWWW DET PNNNN 974 GH
Agilent Spectrum Analyzer - RL RF S center Freq 2.441 Ref Offset 0 dB/div Ref 20.0 90	Swept SA 10 Q AC 1500000 GHz PNC 1FG 12.36 dB 10 dBm	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	à:>100/100	TR. T (r1 2.440	AM Mar 24, 202 ACE 1 2 3 4 5 YPE MWWW DET PNNNN 974 GH
Rajient Spectrum Analyzer RL RF S Center Freq 2.441 Ref Offse Odd 0 dB/div Ref 20.0 Odd 0 0 Odd Odd Odd 0 0 Odd Odd Odd Odd 0 0 Odd	Swept SA 10 Q AC 1500000 GHz PNC IFG 12.36 dB 10 dBm	SENSE:INT	OH1 2441MHz ALIGN AUTO #Avg Ty Run Avg Hol	à:>100/100	rr 2.440 -6.1	AM Mar 24, 202 AM Mar 24, 202 Present and a second secon
Regient Spectrum Analyzer RL RF S renter Freq 2.441 Ref Offse 0 dB/div Ref 20.0 99	Swept SA 10 Q AC 1500000 GHz PNC IFG 12.36 dB 10 dBm	D: Wide Trig: Free ain:Low #Atten: 30	OH1 2441MHz		span	AM Mar 24, 202 AM Mar 24, 202 Pre Market I Pre Market I
Rel Spectrum Analyzer - S Ref Offset Ref Offset OdB/div Ref Offset 0 B C	Swept SA 50 Q AC PRO 1500000 GHz PNO 1FG 1500000 GHZ PNO 1FG 1FG 1FG 1FG 1FG 1FG 1FG 1FG	SENSE:INT D: Wide ain:Low Trig: Free #Atten: 30	OH1 2441MHz	d:>100/100	rr 2.440 -6.1	AM Mar 24, 202 AM Mar 24, 202 Pre Market I Pre Market I
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I Agilent Spectrum Analyzer RL RF Senter Freq 2.441 Ref Offset 0 dB/div Ref 20.0 9	Swept SA 10 Q AC 15000000 GHz PNO 1FG 12.36 dB 10 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	D: Wide Trig: Free ain:Low Trig: Free #Atten: 30	PH1 2441MHz	d:>100/100	span 2.133 ms	AM Mar 24, 202 AM Mar 24, 202 Pre Market I Pre Market I
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Agilent Spectrum Analyzer - RL RF S enter Freq 2.441 Ref Offset 0 dB/div Ref 20.0 9	Swept SA 10 Q AC 15000000 GHz PNO 1FG 12.36 dB 10 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	D: Wide Trig: Free ain:Low Trig: Free #Atten: 30	PH1 2441MHz	d:>100/100	span 2.133 ms	AM Mar 24, 202 AM Mar 24, 202 Pre Market I Pre Market I
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	CFS NVNT 3-DH1 24	480MHz	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.479500000 GHz	PNO: Wide IFGain:Low #Atten: 30 dB	ALIGN AUTO AUTO AUTO AVIG Type: RMS Avg Hold:>100/100	10:48:21 AM Mar 24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm		Mkr	1 2.478 976 GHz -6.748 dBm
Log 10.0 0.00		 2	
-10.0			
-40.0			
-70.0			
Center 2.479500 GHz #Res BW 30 kHz	#VBW 100 kHz	Sweep	Span 2.000 MH 2.133 ms (1001 pts
MKR MODE TRC SCI X 1 N 1 f 2.478 976 GH 2 N 1 f 2.479 974 GH 3 - <td>z -6.748 dBm</td> <td>FUNCTION WIDTH FUNC</td> <td>CTION VALUE</td>	z -6.748 dBm	FUNCTION WIDTH FUNC	CTION VALUE
4 5 6 7 8 8			
9 10 11 4			Þ

No.: BCTC/RF-EMC-007

Page: 70 of 84



13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

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

13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

13.4 Test Result

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass



Agilent Spectrum Analyzer - Sv RL RF 50 enter Freq 2.4417	Ω AC 750000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RM n Avg Hold:>100/	10:52:52 AM Mar 24, 202 S TRACE 1 2 3 4 5 100 TYPE M WARNAW
	PNO: IFGair			DET P NNNN
Ref Offset 2 dB/div Ref 20.00				Mkr1 2.401 837 0 GHz -3.259 dBm
	<u>ብስላቲቪሊሲሲሲሲሲሲሲሲ</u>	ኒስበስቢብስሲልስሲስሲስስ	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ไกลสุดกุลกุลกุลกุลกุลกุลกุ
).0 	<u>I A A A A A A A A A A A A A A A A A A A</u>	NĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂĂ	<u>AANAKAKANAAANAAA</u>	ÅÅÅAAAMÅÄÄÄÄÄÄÄ
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1.0 				
0.0				
tart 2.40000 GHz Res BW 100 kHz		#VBW 300 kHz		Stop 2.48350 GHz Sweep 8.000 ms (1001 pts
R MODE TRC SCL	× 2.401 837 0 GHz	Y FUNCTIO -3.259 dBm	DN FUNCTION WIDTH	FUNCTION VALUE
2 N 1 f 3 4	2.480 160 0 GHz	-4.038 dBm		
5 6 7				=
8				
0				•
3			STATUS	
Agilent Spectrum Analyzer - Sv	vept SA		-DH1 2441MHz	- 6 -
enter Freq 2.4417	750000 GHz	Fast Trig: Free Ru		
Ref Offset 2	IFGair	n:Low #Atten: 30 dE		Mkr1 2.401 837 0 GHz
dB/div Ref 20.00				-3.259 dBm
0.0				<u>^2</u>
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0.0				
0.0				<u> </u>
				Stop 2 48350 GH
200 200 200 200 200 200 200 200 200 200		#VBW 300 kHz		Stop 2.48350 GHz Sweep 8.000 ms (1001 pts
200 200 200 200 200 200 200 200	X 2.401 837 0 GHz 2.480 410 5 GHz	#VBW 300 kHz Y FUNCTIK -3.259 dBm -9.291 dBm	DN FUNCTION WIDTH	
10	2.401 837 0 GHz	Y FUNCTION -3.259 dBm		Sweep 8.000 ms (1001 pts
00	2.401 837 0 GHz	Y FUNCTION -3.259 dBm	DN FUNCTION WIDTH	Sweep 8.000 ms (1001 pts

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	trum Analyzer - Sv									- ¢
enter Fi	RF 50 req 2.4417	750000 GHz	PNO: Fast (FGain:Low		g: Free Run tten: 30 dB	_ AL	IGN AUTO #Avg Type: Avg Hold:>			ACE 1 2 3 4 5 TYPE MWWW DET PNNN
0 dB/div og r	Ref Offset: Ref 20.00							Mkr	1 2.401 5 -10	03 0 GH 237 dBr
										^2
10.0 10 0 20.0	ւչչչչչչչչչչչչչչչչչչչչչ		MMM	VUVVV	<u>~~\\</u> \\	Anrall	WWWW		ኢላላላላሌ	
10.0 										
60.0 [60.0 										ļ,
tart 2.40	000 GHz 100 kHz		#\	/BW 30	0 kHz			Swee	Stop 2 5 8.000 m	.48350 GH s (1001 pts
KR MODE TF		х	Y		FUNCTION	FUNC	TION WIDTH	F	UNCTION VALUE	
1 N 1 2 N 1 3	f	2.401 503 0 GHz 2.480 327 0 GHz		<u>37 dBm</u> 21 dBm						
4 5 6										
7 8 9										
0										

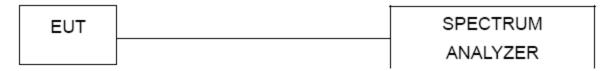
No.: BCTC/RF-EMC-007

Page: 73 of 84



14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6hops per second in each channel(5 time slots RX, 1 time slot TX).hops per second in each channel(3 time slots RX, 1 time slot TX).hops per second in each channelDH1 Packet permit maximum 1600 / 79 / 2hops per second in each channel

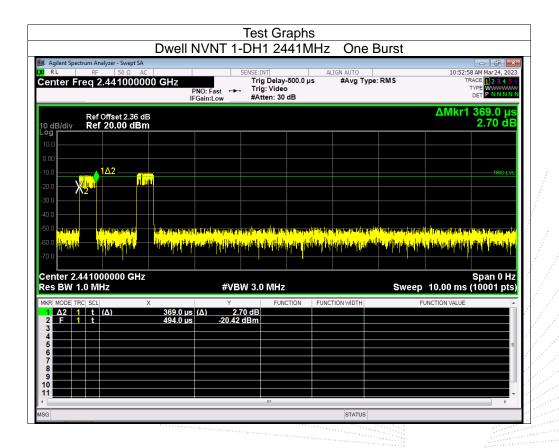
(1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows: DH5:1600/79/6*0.4*79*(MkrDelta)/1000 DH3:1600/79/4*0.4*79*(MkrDelta)/1000

DH1:1600/79/2*0.4*79*(MkrDelta)/1000 Remark: Mkr Delta is once pulse time.

Page: 74 of 84



Modulation	Channel Data	Packet	pulse time(ms)	Dwell Time(s)	Limits(s)
		1DH1	0.369	0.118	0.4
GFSK	Middle	1DH3	1.625	0.260	0.4
		1DH5	2.873	0.306	0.4
		2DH1	0.378	0.121	0.4
π/ 4 DQPSK	Middle	2DH3	1.629	0.261	0.4
		2DH5	2.877	0.307	0.4
		3DH1	0.379	0.121	0.4
8DPSK	Middle	3DH3	1.630	0.261	0.4
		3DH5	2.882	0.307	0.4





	Dwell N	NVNT 1-D	H3 24	41MHz	One E	Burst		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44100000	00 GHz	NO: Fast +++	ISE:INT Trig Delay- Trig: Video #Atten: 30 c	500.0 µs	IGN AUTO #Avg Type	RMS		:34 AM Mar 24, 20 TRACE 1 2 3 4 TYPE WWWW DET P NNN
Ref Offset 2.36 dl 0 dB/div Ref 20.00 dBn							ΔMkr1	1.625 m 0.55 d
0.0								
	1Δ2							TRIO L
0.0 7.0 7.0 7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		ir han televisi ana dala da pine pine a pila a talay ni s		us Vendersen van ee Historie Instantier (j. 1997)		and the second	<mark>Marika (</mark> alaya) (a	<mark>a stad ha belan da be Belan da belan da bela</mark>
enter 2,441000000 GHz	- Abbuqqu	n an					here by a second	Span 0 H s (10001 pt
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enter 2.441000000 GHz es BW 1.0 MHz	t y sy state i de type i te	₩₩₩₩₩₩₩₩₩₩₩ ₩VBW	3.0 MHz	itty, an ^{last} to stal all fills	¹⁴⁴ 04440 1990 1990	Sweep	10.00 ms	Span 0 H s (10001 pt
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No.: BCTC/RF-EMC-007



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Page: 77 of 84

No.: BCTC/RF-EMC-007



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Page: 79 of 84

No.: BCTC/RF-EMC-007



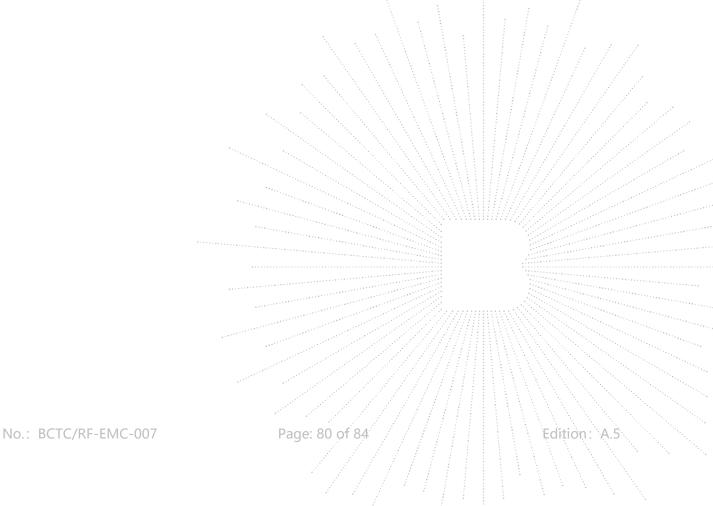
15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

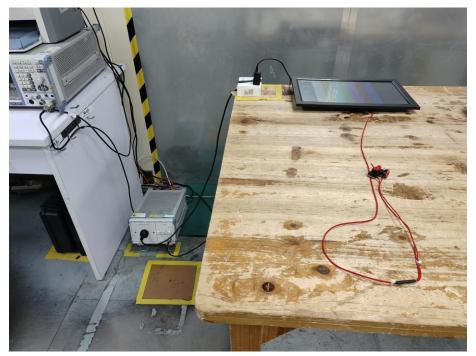
No.: BCTC/RF-EMC-007

Page: 81 of 84

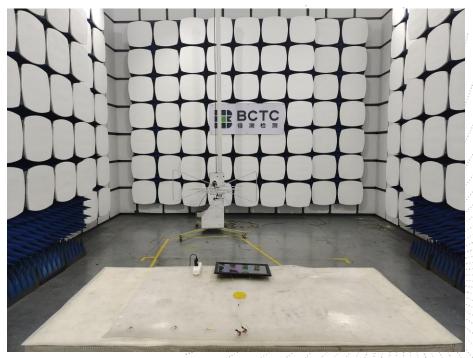


17. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos



No.: BCTC/RF-EMC-007

Page: 82 of 84





No.: BCTC/RF-EMC-007

Page: 83 of 84



STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

***** END *****

No.: BCTC/RF-EMC-007

Page: 84 of 84