





WSCI

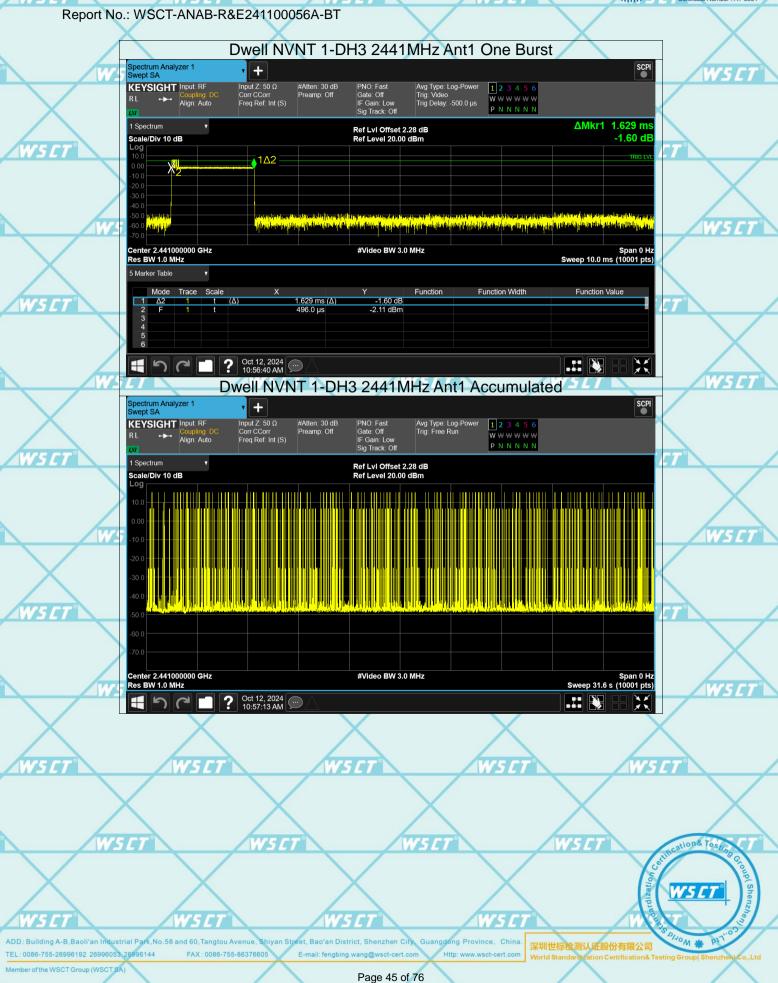








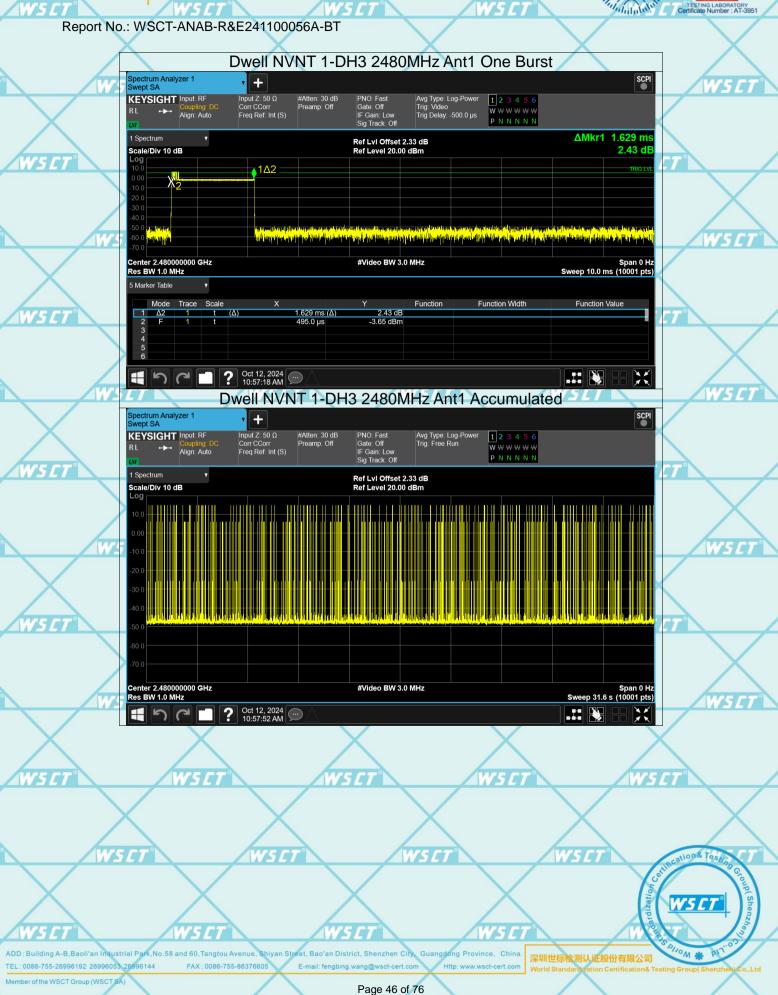
WS CI







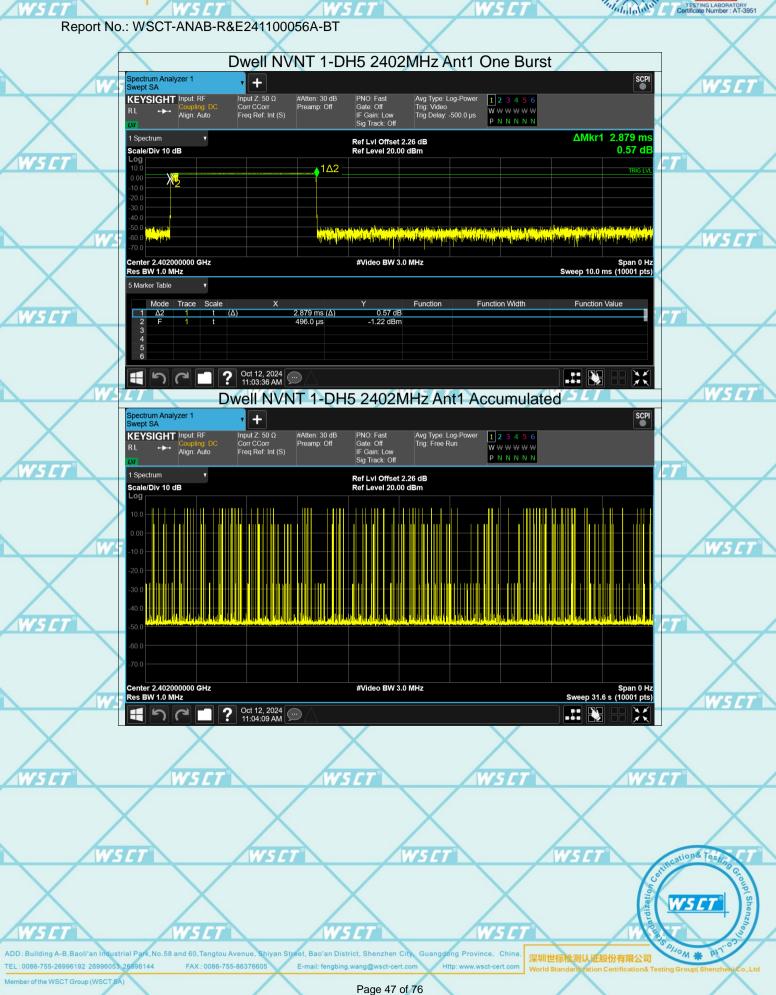








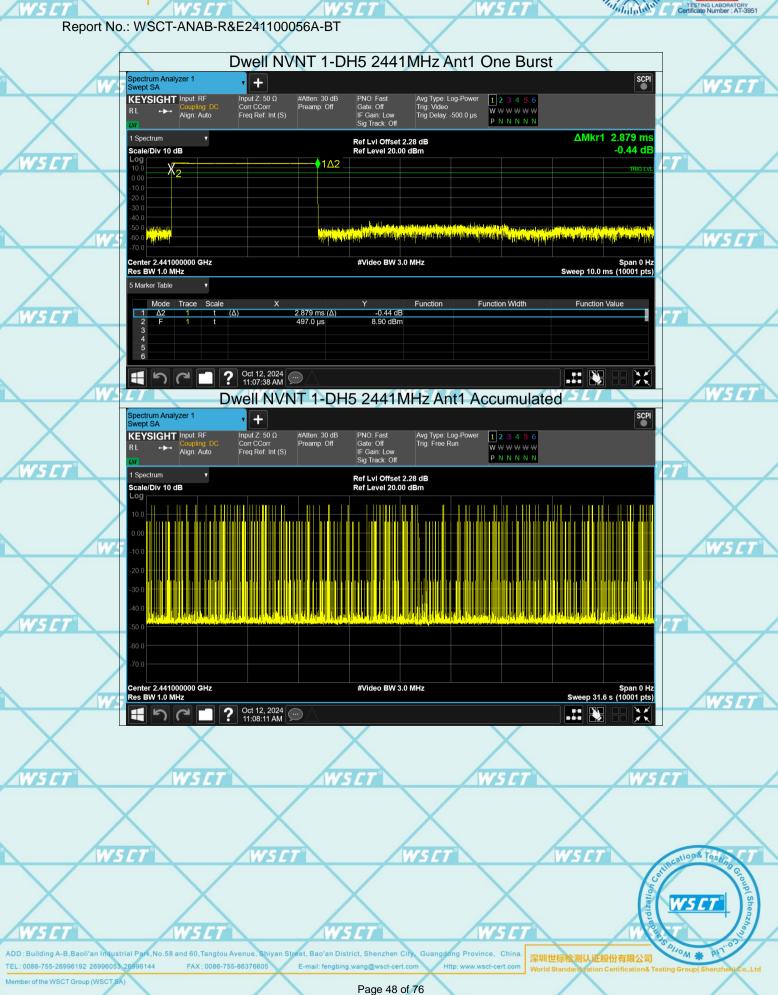


























Report No.: WSCT-ANAB-R&E241100056A-BT

6.8. **Pseudorandom Frequency Hopping Sequence**

FCC Part15 C Section 15.247 (a)(1) requirement: **Test Requirement:**

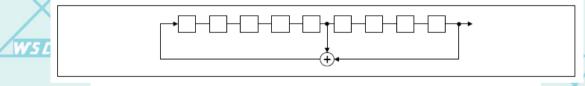
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

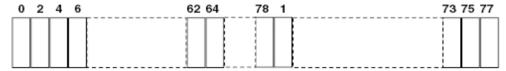
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits W5 C1
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

Page 50 of 76





W5 CT

W5CT



W5C1

Report No.: WSCT-ANAB-R&E241100056A-BT

6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

W5C

W5 C

N5 C

W5 C

\	Test Requirement:	FCC Part15 C Section 15.247 (d)	
7 °	Test Method:	ANSI C63.10:2014 W5 LT W5 LT	
7	Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.	W5C1
7	Test Setup:	Spectrum Analyzer EUT	X
	Test Mode:	Transmitting mode with modulation	WSCI
7	Test Procedure:	 The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. 	
	Test Result:	PASS WSCT WSCT	WSCI

WSCT WSCT WSCT WSCT WSCT

WS CT WS CT

WS CT WS CT

WSET

W5 ET

WELT

WSIT

AWS CT

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Ray III 中心 Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

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Page 51 of 76

W/5

SET WSET

W5 E

















Page 53 of 76





W5 CT

W5CT



W5C

Report No.: WSCT-ANAB-R&E241100056A-BT

6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

\setminus	Test Requirement:	FCC Part15 C Section 15.247 (d)	
ET°	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
<u></u>	Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.	WSEI
ET	Test Setup:	Spectrum Analyzer EUT	
	Test Mode:	Transmitting mode with modulation	X
ET	Test Procedure:	 The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 	WSEI
	Test Result:	PASS	WSCI
7			

WSCT WSCT WSCT WSCT WSCT

WSET WSET

WS CT WS CT

WSCT

WSET

WSIT

WSIT

AWS CT

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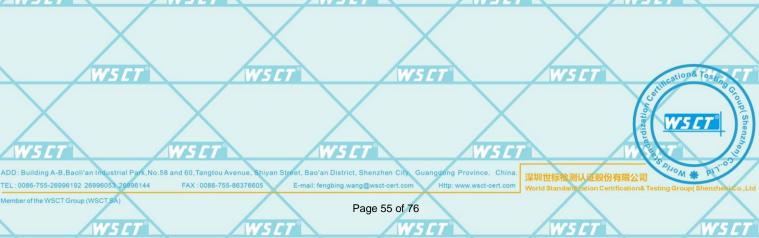
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W5CT

Page 54 of 76

WSCT











WS CT



Page 56 of 76

? Oct 12, 2024 ... 1:03:23 PM

**

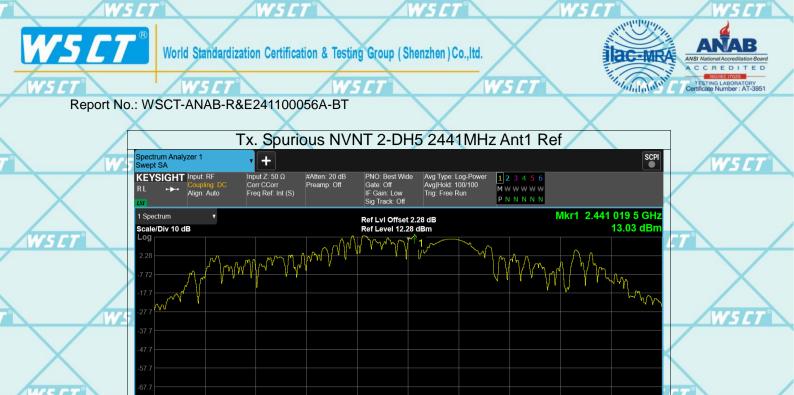






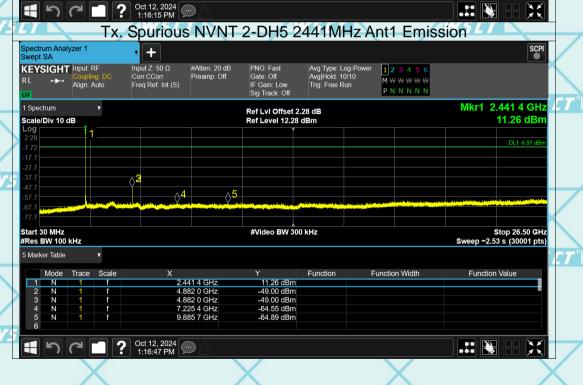
FAX: 0086-755-86376605





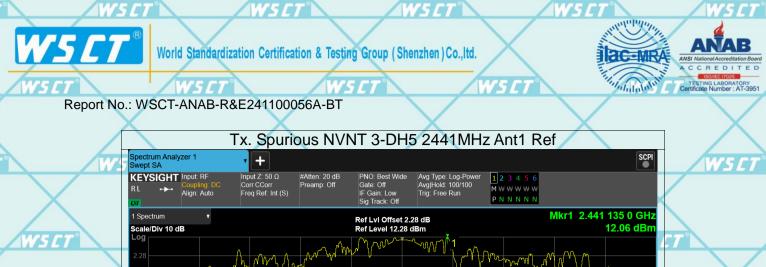
#Video BW 300 kHz

Center 2.4410000 GHz #Res BW 100 kHz















W5C



W5 CT

Report No.: WSCT-ANAB-R&E241100056A-BT

Radiated Spurious Emission Measurement 6.11.

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6.11.1.	I ESLIDUE	cification
V		

15 C

NS E

Test Requirement:	FCC Part15 C Section 15.209
Test Method: 5 [7]	ANSI C63.10:2014 W5 ET W5 ET
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m

Antenna Polarization: Horizontal & Vertical

Frequency Detector **RBW** VBW Remark 9kHz- 150kHz 200Hz Quasi-peak 1kHz Quasi-peak Value 150kHz-Quasi-peak 9kHz 30kHz Quasi-peak Value Receiver Setup: 30MHz 300KHz 30MHz-1GHz Quasi-peak 100KHz Quasi-peak Value Peak 1MHz 3MHz Peak Value Above 1GHz

Peak

1MHz

10Hz

Average Value

ALCO CT.								
WSCT WSC	WSL	Field Strength	Measurement					
	Frequency	(microvolts/meter)	Distance (meters)					
X	0.009-0.490	2400/F(KHz)	300					
	0.490-1.705	24000/F(KHz)	30					
WSET	1.705-30	WC 30-°	30c / T					
	30-88	100	3					
	88-216	150	3					
Limit:	216-960	200	3					
	Above 960	500	3					

WSET	AWS ET		SET	WSET	
X		Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
August 1		Above 4CUz	500	3	Average
		Above 1GHz	F000		

For radiated emissions below 30MHz

WS CT WS CT	Distance = 3m	Computer
Test setup:	EUT	Pre -Amplifier
\times	Turn table Ground Plane	Receiver

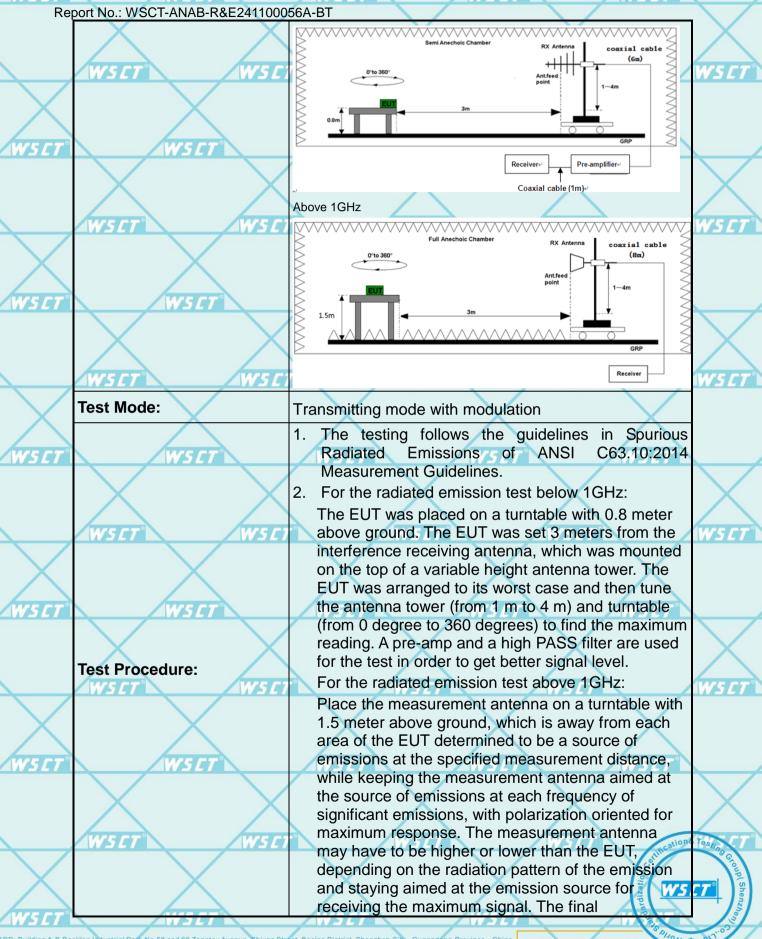
30MHz to 1GHz

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Page 64 of 76











Report No.: WSCT-ANAB-R&E241100056A-BT

Rep	ort No.: WSCT-ANAB-R&E2411000	56A-BT	
	X	measurement antenna elevation shall be that which	X
		maximizes the emissions. The measurement	
	W5CT W5C	antenna elevation for maximum emissions shall be	W51
		restricted to a range of heights of from 1 m to 4 m	
	X	above the ground or reference ground plane.	
		3. Set to the maximum power setting and enable the	
	W5ET°	EUT transmit continuously.	
		4. Use the following spectrum analyzer settings:	
	X	(1) Span shall wide enough to fully capture the	X
		emission being measured;	
	WS CT WS CT	(2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz	W5L
		for f>1GHz ; VBW≥RBW;	
	X	Sweep = auto; Detector function = peak; Trace	
		= max hold for peak	
	W5ET*	(3) For average measurement: use duty cycle	
		correction factor method per	
	X	15.35(c). Duty cycle = On time/100 milliseconds	X
		On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln	_
	W5CT W5C	Where N1 is number of type 1 pulses, L1 is	W5 L
		length of type 1 pulses, etc.	
		Average Emission Level = Peak Emission	
		Level + 20*log(Duty cycle)	
ď,	W5 ET	/W-5194 / W-5194 / W-5194 N	
		Corrected Reading: Antenna Factor + Cable	
	X	Loss + Read Level - Preamp Factor = Level	X

Note 1: The symbol of "--" in the table which means not application.

Test results:

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB

lower than the limit line per 15.31(o) was not reported.

PASS

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

WSCT WSCT WSCT WSCT WSCT

YSET WSET WSET WSET

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WSET WSE

Page 66 of 76

VS CT WS CT





1000.000



W5 CI

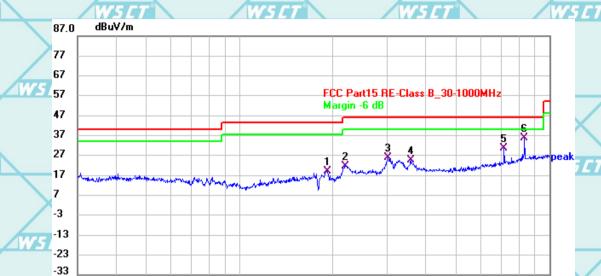
6.11.2. **Test Data**

WSC

Please refer to following diagram for individual

Below 1GHz

Horizontal:



		_	
1	A.7	W /	

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	7
	1	191.9132	42.18	-23.08	19.10	43.50	-24.40	QP	Ì
5	2	219.4598	45.63	-23.84	21.79	46.00	-24.21	QP	
	3	302.0837	46.16	-20.12	26.04	46.00	-19.96	QP	
	4	356.9886	43.71	-19.01	24.70	46.00	-21.30	QP	×
	5	714.1734	42.74	-12.07	30.67	46.00	-15.33	QP	3
	6 *	831.4928	46.20	-10.55	35.65	46.00	-10.35	QP	L

(MHz)

300.00

30.000

60.00

WSCI

W5 ET

W5 CI

W5 CI

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Page 67 of 76



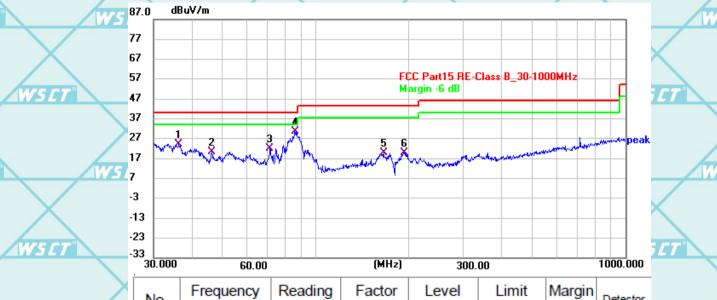


WS CI



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Vertical:



Z	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	36.3177	43.69	-19.44	24.25	40.00	-15.75	QP
	2	46.2996	39.58	-19.01	20.57	40.00	-19.43	QP
	3	71.3926	44.37	-22.45	21.92	40.00	-18.08	QP
	4 *	85.8984	54.54	-23.91	30.63	40.00	-9.37	QP
×	5	166.5784	40.12	-20.19	19.93	43.50	-23.57	QP
	6	194.3682	43.36	-23.23	20.13	43.50	-23.37	QP

Note1:

WSCT

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

WSET

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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W5C1

Page 68 of 76







Report No.: WSCT-ANAB-R&E241100056A-BT

W5 CT

Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

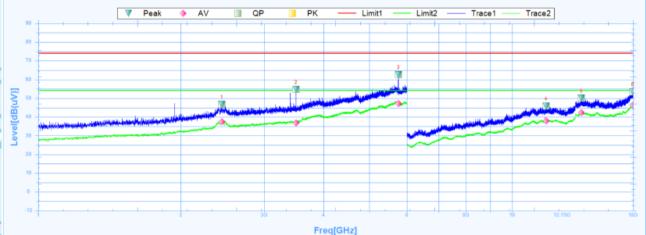
Note 2: The spurious above 18G is noise only, do not show on the report.

GFSK

Low channel: 2402MHz

/5 / Horizontal:

W5CT



	Susputed Data List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2438.7500	46.72	27.39	19.33	74	-27.28	283.6	Horizontal	PK	Pass	1
	1	2438.7500	37.61	27.39	10.22	54	-16.39	283.6	Horizontal	AV	Pass	
	2	3501.8750	54.79	28.5	26.29	74	-19.21	318.3	Horizontal	PK	Pass	1
	2	3501.8750	36.95	28.5	8.45	54	-17.05	318.3	Horizontal	AV	Pass	7
	3	5756.8750	62.65	32.41	30.24	74	-11.35	7.4	Horizontal	PK	Pass	1
/	3	5756.8750	47.3	32.41	14.89	54	-6.7	7.4	Horizontal	AV	Pass	
	4	11797.5000	45.97	16.2	29.77	74	-28.03	258.1	Horizontal	PK	Pass	
	4	11797.5000	38.01	16.2	21.81	54	-15.99	258.1	Horizontal	AV	Pass	
L	5	14011.5000	50.05	19.12	30.93	74	-23.95	135	Horizontal	PK	Pass	
	5	14011.5000	42.38	19.12	23.26	54	-11.62	135	Horizontal	AV	Pass	1
	6	17986.5000	53.31	23.83	29.48	74	-20.69	205.4	Horizontal	PK	Pass	
	6	17986.5000	46.43	23.83	22.6	54	-7.57	205.4	Horizontal	AV	Pass	1

WSCI

WS ET

W5 E1

W5 E1

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Page 69 of 76



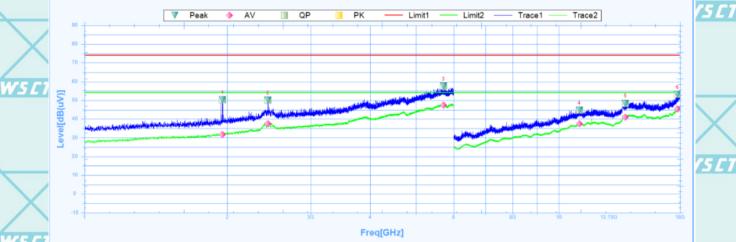


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Vertical:



W5 C1

	Suspu	ıted Data Lis	it									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1954.3750	50.27	25.69	24.58	74	-23.73	170.2	Vertical	PK	Pass	7
	1	1954.3750	31.75	25.69	6.06	54	-22.25	170.2	Vertical	AV	Pass	
/	2	2436.2500	50.15	27.38	22.77	74	-23.85	359.9	Vertical	PK	Pass	
/	2	2436.2500	37.4	27.38	10.02	54	-16.6	359.9	Vertical		Pass	
	3	5709.3750	57.64	32.34	25.3	74	-16.36	85.3	85.3 Vertical PK	PK	Pass	
51	3	5709.3750	47.52	32.34	15.18	54	-6.48	85.3	Vertical	AV	Pass	
	4	11040.0000	44.78	15.74	29.04	74	-29.22	1	Vertical	PK	Pass	
	4	11040.0000	37.6	15.74	21.86	54	-16.4	1	Vertical	AV	Pass	
	5	13809.0000	48.44	18.57	29.87	74	-25.56	311.7	Vertical	PK	Pass	1
	5	13809.0000	41.13	18.57	22.56	54	-12.87	311.7	Vertical	AV	Pass	7
	6	17791.5000	53.09	22.57	30.52	74	-20.91	359.5	Vertical	PK	Pass	
/	6	17791.5000	45.47	22.57	22.9	54	-8.53	359.5	Vertical	AV	Pass	

W5 CI W5 CI W5 C W5 C1

W5 E1 W5 C1 W5 E1 WS ET tion& Test

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Page 70 of 76

W5CT

W5C1





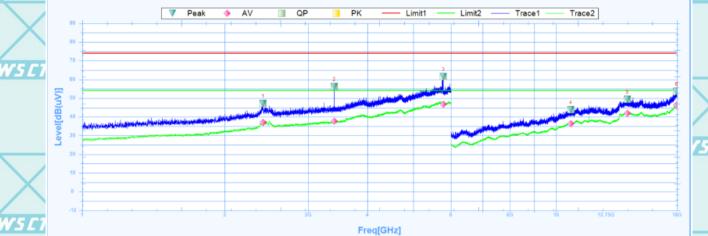


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Middle channel: 2440MHz

Horizontal:





Susputed Data List Deg Reading Freq. Factor Level Limit Margin NO. **Polarity** Verdict Trace [dB(uV)] [dB(uV)] [dB] [dB] [MHz] [dB] [°] 2408.1250 47.12 27.29 19.83 74 -26.88 360 Horizontal PΚ Pass 2408.1250 37.17 27.29 9.88 54 -16.83 360 ΑV Horizontal Pass 2 3405.0000 56.28 28.44 27.84 74 -17.72 29.2 PK Pass Horizontal 3405.0000 37.81 28.44 9.37 54 -16.19 29.2 ΑV Pass Horizontal 5784.3750 61.52 32.46 29.06 74 -12.48 238.4 Horizontal PΚ Pass 238.4 -7.25 3 5784.3750 46.75 32.46 14.29 54 Horizontal ΑV Pass 10743.0000 43.84 14.67 29.17 74 -30.16 287.8 PK Pass 4 Horizontal 4 10743.0000 36.49 14.67 21.82 54 -17.51 287.8 Horizontal ΑV Pass 5 14143.5000 49.43 18.98 30.45 74 -24.57 138.4 Horizontal PK Pass 5 14143.5000 41.82 18.98 22.84 54 -12.18 138.4 Horizontal ΑV Pass 74 128.8 6 17971.5000 53.54 23.73 -20.46 PK 29.81 Horizontal Pass 6 17971.5000 46.26 23.73 22.53 54 -7.74 128.8 Horizontal ΑV Pass

tion& Test

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Page 71 of 76

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Vertical:



W5 C

Suspu	Susputed Data List									
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.1250	48.13	27.39	20.74	74	-25.87	229.8	Vertical	PK	Pass
1	2438.1250	37.83	27.39	10.44	54	-16.17	229.8	Vertical	AV	Pass
2	3940.0000	50	29.56	20.44	74	-24	359.9	Vertical	PK	Pass
2	3940.0000	40.69	29.56	11.13	54	-13.31	359.9	Vertical	AV	Pass
3	5673.1250	56.76	32.28	24.48	74	-17.24	359.9	Vertical	PK	Pass
3	5673.1250	47.91	32.28	15.63	54	-6.09	359.9	Vertical	AV	Pass
4	10615.5000	43.33	14.38	28.95	74	-30.67	0.1	Vertical	PK	Pass
4	10615.5000	36.78	14.38	22.4	54	-17.22	0.1	Vertical	AV	Pass
5	13660.5000	48.24	18.15	30.09	74	-25.76	0.1	Vertical	PK	Pass
5	13660.5000	41.23	18.15	23.08	54	-12.77	0.1	Vertical	AV	Pass
6	17991.0000	53.12	23.87	29.25	74	-20.88	0.1	Vertical	PK	Pass
6	17991 0000	46.34	23.87	22 47	54	-7 66	0.1	Vertical	AV	Pass

W5 C1 W5 CI W5 CI W5C1

W5 CI W5 C W5C

W5 E1 W5 CT WS ET W5 CI tion& Test

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W5CT

Page 72 of 76

W5C1



W5 E

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W5CT



Report No.: WSCT-ANAB-R&E241100056A-BT

High channel: 2480MHz

Horizontal:



	Suspu	ted Data Lis	it								
I	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2428.7500	45.98	27.36	18.62	74	-28.02	123.6	Horizontal	PK	Pass
	1	2428.7500	37.39	27.36	10.03	54	-16.61	123.6	Horizontal	AV	Pass
	2	3898.1250	50.12	29.46	20.66	74	-23.88	360.1	Horizontal	PK	Pass
	2	3898.1250	41.12	29.46	11.66	54	-12.88	360.1	Horizontal	AV	Pass
7	3	5692.5000	56.64	32.31	24.33	74	-17.36	140.3	Horizontal	PK	Pass
	3	5692.5000	47.65	32.31	15.34	54	-6.35	140.3	Horizontal	AV	Pass
	4	11014.5000	45.11	15.67	29.44	74	-28.89	335.8	Horizontal	PK	Pass
-	4	11014.5000	37.6	15.67	21.93	54	-16.4	335.8	Horizontal	AV	Pass
	5	14053.5000	48.69	19.07	29.62	74	-25.31	26.2	Horizontal	PK	Pass
	5	14053.5000	41.87	19.07	22.8	54	-12.13	26.2	Horizontal	AV	Pass
	6	17925.0000	53.26	23.42	29.84	74	-20.74	9.9	Horizontal	PK	Pass
	6	17925.0000	45.99	23.42	22.57	54	-8.01	9.9	Horizontal	AV	Pass

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W5 C1 W5 CT WS ET WS C1 tion& Test

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Page 73 of 76

W5C1

W5C1

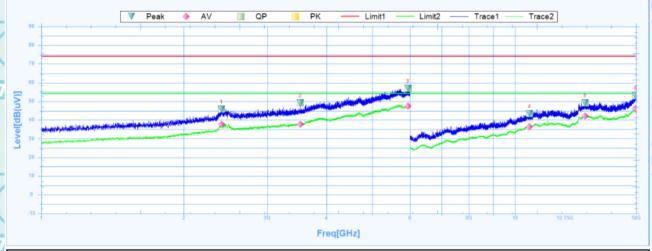






Report No.: WSCT-ANAB-R&E241100056A-BT

Vertical:



Suspu	uted Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2400.0000	45.8	27.26	18.54	74	-28.2	60.3	Vertical	PK	Pass
1	2400.0000	37.62	27.26	10.36	54	-16.38	60.3	Vertical	AV	Pass
2	3523.1250	49.26	28.56	20.7	74	-24.74	53.1	Vertical	PK	Pass
2	3523.1250	37.82	28.56	9.26	54	-16.18	53.1	Vertical	AV	Pass
3	5940.0000	56.86	32.7	24.16	74	-17.14	7.5	Vertical	PK	Pass
3	5940.0000	47.4	32.7	14.7	54	-6.6	7.5	Vertical	AV	Pass
4	10717.5000	43.55	14.63	28.92	74	-30.45	116.8	Vertical	PK	Pass
4	10717.5000	36.34	14.63	21.71	54	-17.66	116.8	Vertical	AV	Pass
5	14061.0000	49.2	19.06	30.14	74	-24.8	-0.1	Vertical	PK	Pass
5	14061.0000	42.18	19.06	23.12	54	-11.82	-0.1	Vertical	AV	Pass
6	17964.0000	53.07	23.67	29.4	74	-20.93	257.9	Vertical	PK	Pass
6	17964.0000	46.05	23.67	22.38	54	-7.95	257.9	Vertical	AV	Pass

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Note:

- 1. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 3. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.
- 5. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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Page 74 of 76

WSE

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Report No.: WSCT-ANAB-R&E241100056A-BT

Restricted Bands Requirements 6.11.3.

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK)mode have been tested, and the worst result GFSK model was report as below

	as bolow							
c i	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
	X		X	Low Cha	nnel		X	
	2387	64.33	-8.76	55.57	74	18.43	Į.	PK
	2387	54.62	-8.76	45.86	54	8.14	11/25	AV
/	2387	61.24	-8.73	52.51	74	21.49	V	PK
1	2387	54.78	-8.73	46.05	54	7.95	V	AV
C	2390	60.59	-8.76	51.83	74	22.17	7 H	PK _M 5
	2390	55.06	-8.76	46.30	54	7.70	H	AV
	2390	59.60	-8.73	50.87	74	23.13	V	PK
	2390	54.52	-8.73	45.79	54	8.21	VME	AV
,				High Cha	nnel			
	2483.5	62.92	-8.76	54.16	74	19.84	Н	PK
	2483.5	55.93	-8.76	47.17	54	6.83	Н	AV
5	2483.5	60.64	-8.73	51.91	74	22.09	V	PK
	2483.5	57.49	-8.73	48.76	54	5.24	V	AV
	Note: Fred - F	mission frequen	cy in MHz					

Note: Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss

Level $(dB\mu V) = Reading level (dB\mu V) + Corr. Factor (dB)$

Limit (dBµV) = Limit stated in standard Margin (dB) = Level (dB μ V) – Limits (dB μ V)

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Page 75 of 76

