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Report No.: WSCT-ANAB-R&E240700031A-LE



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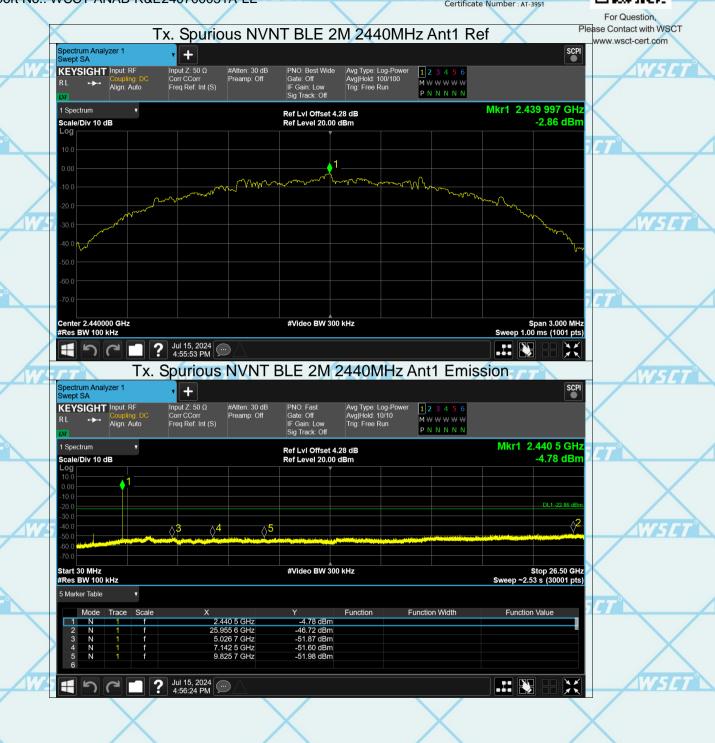
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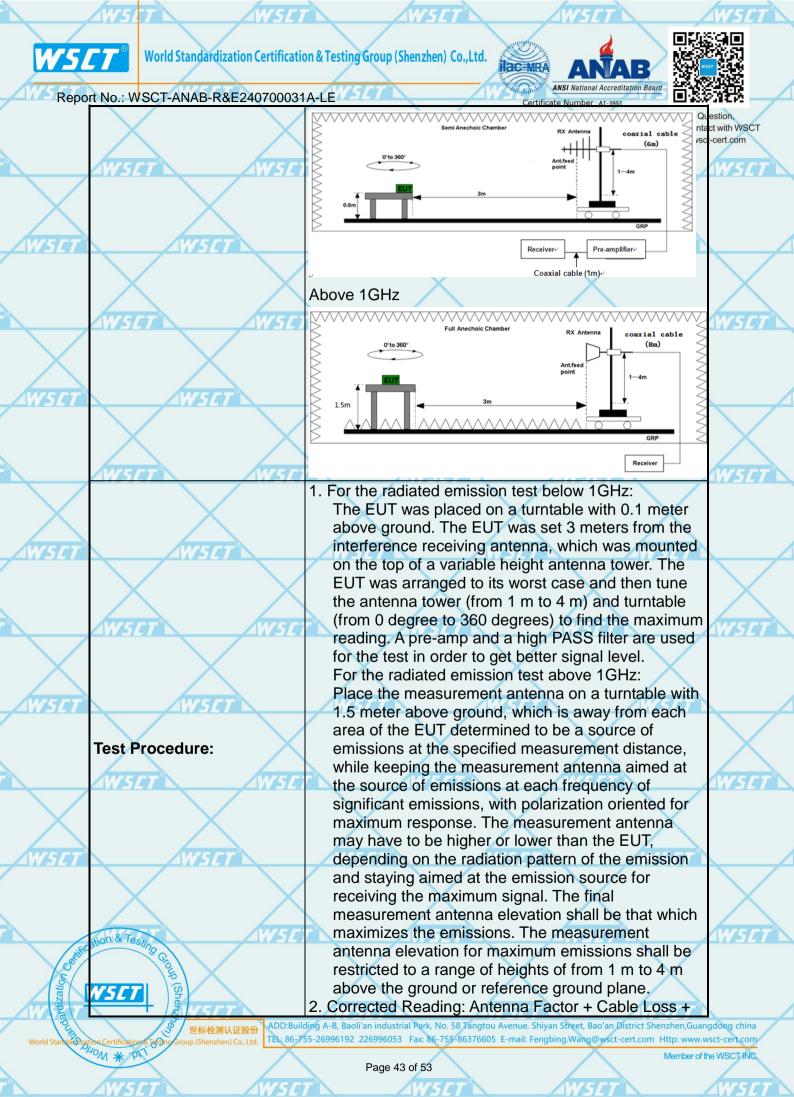
Report No.: WSCT-ANAB-R&E240700031A-LE

6.7. Radiated Spurious Emission Measurement

For Question Please Contact with WSCT www.wsct-cert.com

6.7.1. Test Specification **Test Requirement:** FCC Part15 C Section 15.209 Test Method: ANSI C63.10:2014 Frequency Range: 9 kHz to 25 GHz Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical **Operation mode:** Refer to item 4.1 Frequency RBW VBW Detector Remark 9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value 150kHz-Quasi-peak 9kHz 30kHz Quasi-peak Value **Receiver Setup:** 30MHz 100KHz 300KHz Quasi-peak Value 30MHz-1GHz Quasi-peak Peak 1MHz 3MHz Peak Value Above 1GHz Peak 1MHz 10Hz Average Value N51 **Field Strength** Measurement Frequency (microvolts/meter) Distance (meters) 0.009-0.490 2400/F(KHz) 300 0.490-1.705 24000/F(KHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 Limit: 216-960 200 3 Above 960 500 3 Measurement Field Strength Frequency Distance Detector (microvolts/meter) (meters) 500 3 Average Above 1GHz 5000 3 Peak For radiated emissions below 30MHz Distance Computer Pre -Amplifier Test setup: EUT Turn table Receiver ion & Testin Ground Plane 30MHz to 1GHz NSC1 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china 世标检测认证股份 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com M * P

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Report No.: WSCT-ANAB-R&E240700031A-LE

Repo	ort No.: WSCT-ANAB-R&E240700031	A-LE Certificate Number: AT-3951
		Read Level - Preamp Factor = Level For Question
		3. For measurement below 1GHz, If the emission level with WSCT
		of the EUT measured by the peak detector is 3 dB
	AWSLI AWSLI	lower than the applicable limit, the peak emission
/		level will be reported. Otherwise, the emission
$\langle \rangle$		measurement will be repeated using the quasi-peak
		detector and reported.
LI	WSL	4. Use the following spectrum analyzer settings: / 5 / 7
		 (1) Span shall wide enough to fully capture the emission being measured;
	\land	
	And And	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;
-7		Sweep = auto; Detector function = peak; Trace =
		max hold;
	\sim	(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz
CT.	WISITT	for peak measurement.
61		For average measurement: VBW = 10 Hz, when
		duty cycle is no less than 98 percent. VBW \geq 1/T,
		when duty cycle is less than 98 percent where T is
	WSPT WSP	the minimum transmission duration over which the
7		transmitter is on and is transmitting at its maximum
		power control level for the tested mode of operation.
1	Test mode:	Refer to section 4.1 for details
LT °	Test results:/5C7	PASSSET WSET WSET

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

- 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.
 - 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.

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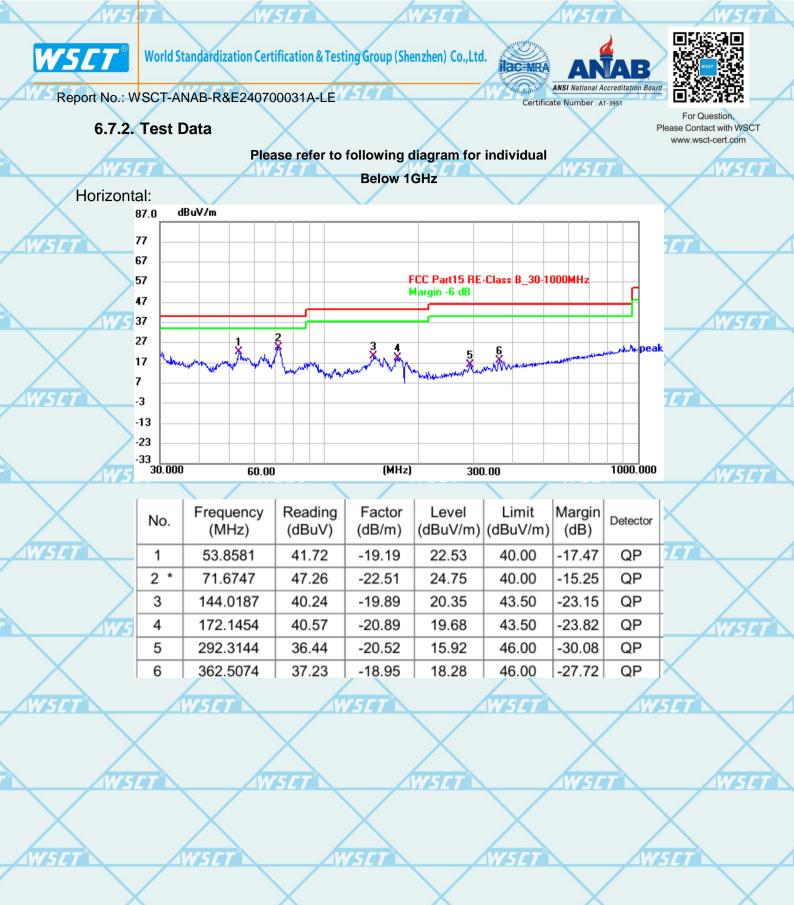
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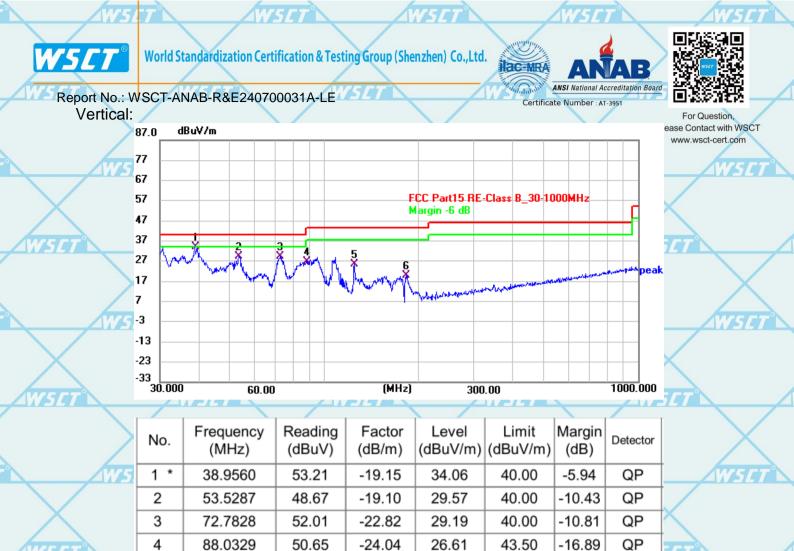
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-20.98

-22.42

25.68

19.94

-17.82

-23.56

QP

QP

43.50

43.50

Note1:

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183.2005

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

46.66

42.36

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ерс	ort No	o.: WSCT-A	NAB-R&E24	40700031A				Certif	ANSI National Ac	ccreditation Board	ÖXST
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	/	signal.	-						Sause mey		www.wsct-cert.ce
	lote 2	2: The spuri	ious above ⁻ and 2M both						ase scen	ario 1M:	W
L	.ow c	channel: 2				u only		WORKE	aso see		
H	lorizo	ntal:	\wedge					\wedge			
.7	90 +		Peak	♦ AV □	QP	РК — L	Limit1 — Lim	mit2	Trace1 — Tr	Trace2	
	80		······								
	70										
141	60 + 50 +			,	;	3				6	
	Level[dB(uV)]	Contraction in a state of the s	1 Lauris das Maideiras principalitadad	Marine Marine Marine Marine				4			
7	20										
2		,									
	-10 +		<u> </u>	2	3G	4	6		10	12.75G	
Ļ						Freq[GHz]					- V
S	uspu	Ited Data List							T		
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1		1565.0000	39.41	0.08	39.33	74	-34.59	39.4	Horizontal	PK	Pass
2		2645.0000	44.66	6.28	38.38	74	-29.34	357.7	Horizontal	РК	Pass
3		3641.2500	47.65	10.21	37.44	74	-26.35	145.8	Horizontal	PK	Pass
4	,	7929.0000	36.75	36.89	-0.14	74	-37.25	163.1	Horizontal	РК	Pass
5		10651.5000	44.46	39.01	5.45	74	-29.54	29.2	Horizontal	PK	Pass
6	j	13312.5000	45.59	39.71	5.88	74	-28.41	172.6	Horizontal	РК	Pass
7 F	inal	Data List									
1	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t
1		1565.0000	30.82	0.08	30.74	54	-23.18	39.4	Horizontal	AV	Pass
		2645.0000	35.95	6.28	29.67	54	-18.05	357.7	Horizontal	AV	Pass
2	' 			10.01	29.47	54	-14.32	145.8	Horizontal	AV	Pass
2		3641.2500	39.68	10.21	20.11	<u> </u>	`				
	3	3641.2500 7929.0000	39.68 29.51	36.89	-7.38	54	-24.49	163.1	Horizontal	AV	Pass
3	3			+		54 54	-24.49 -17.29	163.1 29.2	Horizontal Horizontal	AV AV	Pass Pass

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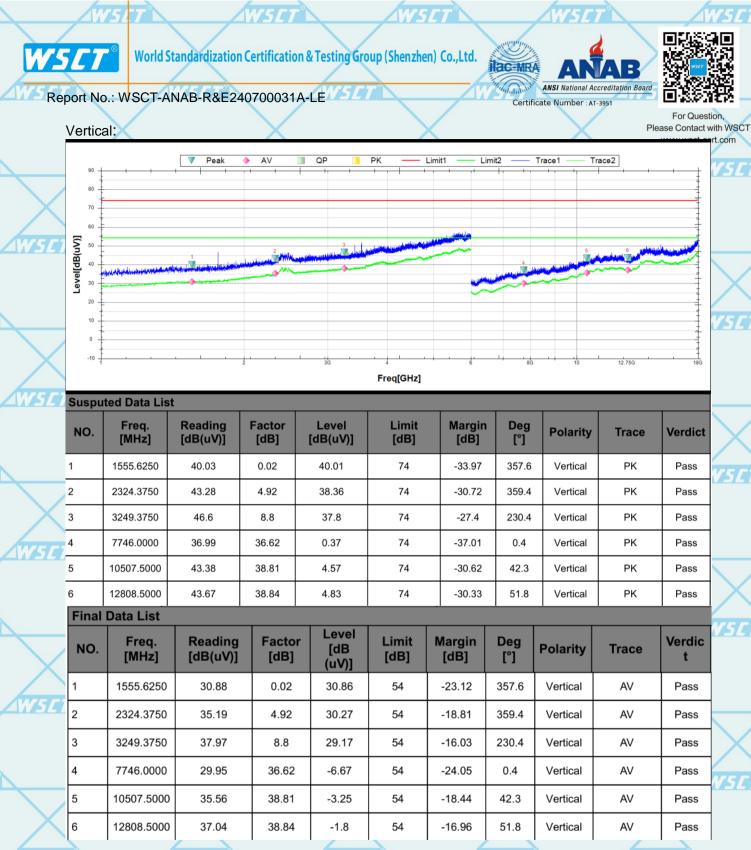
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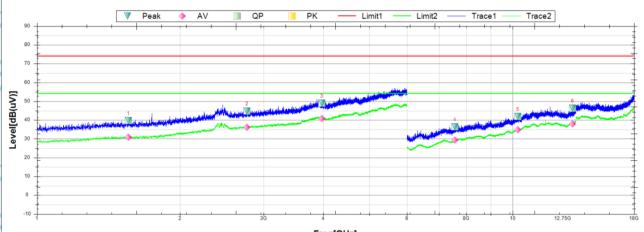
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Middle channel: 2440MHz Horizontal:

Report No.: WSCT-ANAB-R&E240700031A-LE



Freq[GHz]

	Suspu	ted Data Lis	t									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margir [dB]	n Deg [°]	Polarity	Trace	Verdict	
	1	1556.8750	39.69	0.03	39.66	74	-34.31	309.6	Horizontal	РК	Pass	Ľ.
(2	2766.2500	44.77	6.91	37.86	74	-29.23	357.7	Horizontal	РК	Pass	
	3	3971.2500	48.89	11.93	36.96	74	-25.11	304.8	Horizontal	РК	Pass	
9	4	7569.0000	36.31	36.35	-0.04	74	-37.69	243.2	Horizontal	РК	Pass	
	5	10258.5000	41.86	38.46	3.4	74	-32.14	153.5	Horizontal	РК	Pass	
	6	13378.5000	46.35	39.88	6.47	74	-27.65	286.2	Horizontal	РК	Pass	
-	Final	Data List					·	·		·		14
<	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	_ Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
C	1	1556.8750	30.96	0.03	30.93	54	-23.04	309.6	Horizontal	AV	Pass	
	2	2766.2500	36.24	6.91	29.33	54	-17.76	357.7	Horizontal	AV	Pass	
	3	3971.2500	40.91	11.93	28.98	54	-13.09	304.8	Horizontal	AV	Pass	
	4	7569.0000	29.27	36.35	-7.08	54	-24.73	243.2	Horizontal	AV	Pass	<i>V</i>
\langle	5	10258.5000	34.83	38.46	-3.63	54	-19.17	153.5	Horizontal	AV	Pass	
7	6	13378.5000	37.94	39.88	-1.94	54	-16.06	286.2	Horizontal	AV	Pass	

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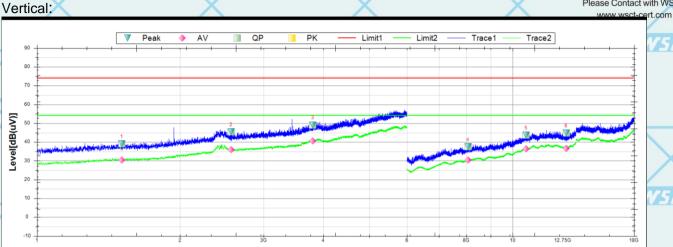
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Certificate Number : AT-3951

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Report No.: WSCT-ANAB-R&E240700031A-LE



Freq[GHz]

	Suspu	Ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1506.8750	39.08	-0.26	39.34	74	-34.92	291.4	Vertical	PK	Pass	v
/	2	2560.0000	45.4	6.11	39.29	74	-28.6	185	Vertical	РК	Pass	
\langle	3	3803.1250	49.1	11.02	38.08	74	-24.9	359.5	Vertical	PK	Pass	
C	4	8059.5000	37.56	37.02	0.54	74	-36.44	214.4	Vertical	PK	Pass	
	5	10678.5000	43.76	39.05	4.71	74	-30.24	360	Vertical	PK	Pass	
	6	12966.0000	44.78	38.89	5.89	74	-29.22	358.1	Vertical	РК	Pass	
	Final	Data List										4

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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
	1	1506.8750	30.47	-0.26	30.73	54	-23.53	291.4	Vertical	AV	Pass	
-	2	2560.0000	35.94	6.11	29.83	54	-18.06	185	Vertical	AV	Pass	
	3	3803.1250	40.7	11.02	29.68	54	-13.3	359.5	Vertical	AV	Pass	
	4	8059.5000	30.5	37.02	-6.52	54	-23.5	214.4	Vertical	AV	Pass	
/	5	10678.5000	36.48	39.05	-2.57	54	-17.52	360	Vertical	AV	Pass	
1	6	12966.0000	36.53	38.89	-2.36	54	-17.47	358.1	Vertical	AV	Pass	

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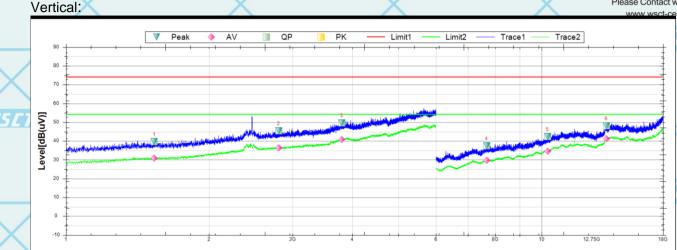
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Freq[GHz]

	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1533.7500	39.72	-0.12	39.84	74	-34.28	201.7	Vertical	PK	Pass	v
/	2	2800.6250	45.47	7.27	38.2	74	-28.53	112.1	Vertical	PK	Pass	
	3	3800.0000	49.6	11	38.6	74	-24.4	0	Vertical	PK	Pass	
C 1	4	7663.5000	37.42	36.5	0.92	74	-36.58	75	Vertical	PK	Pass	
	5	10291.5000	42.28	38.51	3.77	74	-31.72	232.9	Vertical	PK	Pass	
	6	13683.0000	48.01	40.68	7.33	74	-25.99	155.1	Vertical	РК	Pass	
	Final	Data List										

Final Data List

/	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t
	1	1533.7500	30.8	-0.12	30.92	54	-23.2	201.7	Vertical	AV	Pass
2	2	2800.6250	36.48	7.27	29.21	54	-17.52	112.1	Vertical	AV	Pass
	3	3800.0000	40.79	11	29.79	54	-13.21	0	Vertical	AV	Pass
	4	7663.5000	29.72	36.5	-6.78	54	-24.28	75	Vertical	AV	Pass
/	5	10291.5000	34.61	38.51	-3.9	54	-19.39	232.9	Vertical	AV	Pass
-	6	13683.0000	41.3	40.68	0.62	54	-12.7	155.1	Vertical	AV	Pass

Note:

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1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

2. Emission Level= Reading Level+Probe Factor +Cable Loss.

Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 <u>EUT</u> has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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Report No.: WSCT-ANAB-R&E240700031A-LE

7. Test Setup Photographs

Please refer to Annex "Set Up Photos-15C" for test setup photos

*****END OF REPORT*****

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