

EMC-ARF-05 Rev 1.1

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FCC ID: OJFDHRU-G2-23

Appendix -

Test Data and Result for report GZCR231100125802

(A)

(For copied data from original report GZCR210300001702)



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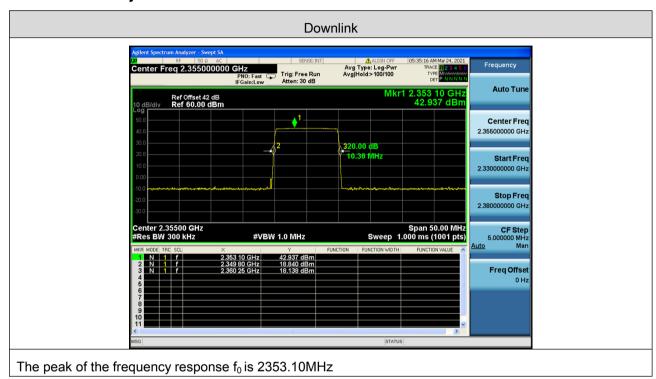
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1 WCS (only for downlink: 2350-2360MHz)

1.1 Out-of-band rejection



Unite available available

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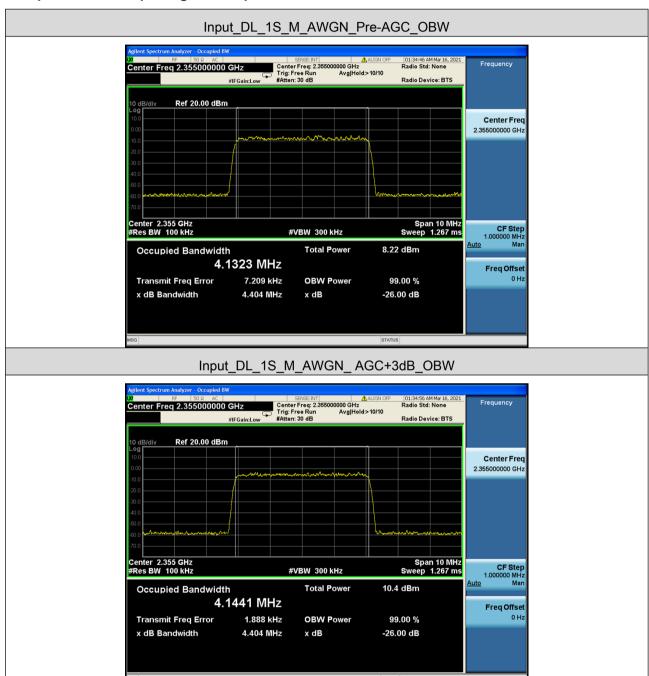
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1.2 Input-versus-output signal comparison





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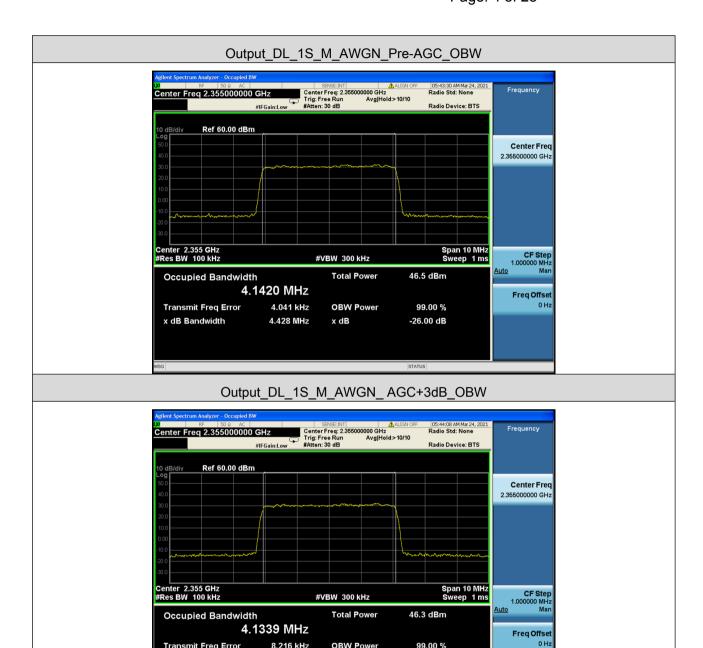
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OBW Power

x dB

4.430 MHz

99.00 %

-26.00 dB



Transmit Freq Error

x dB Bandwidth

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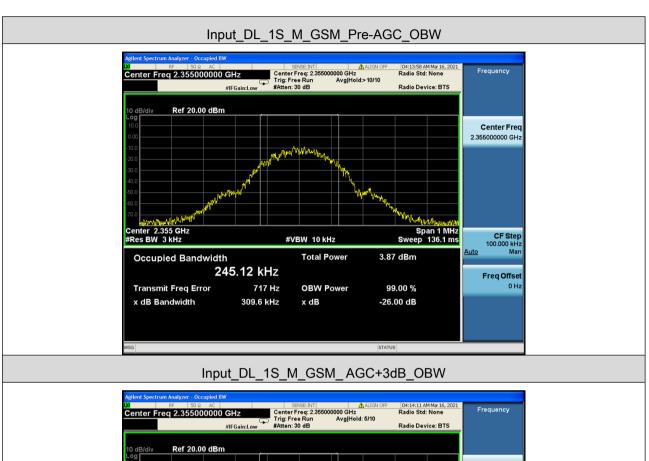
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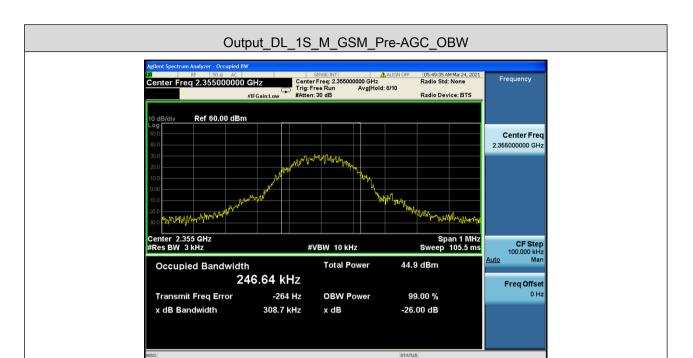
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Output_DL_1S_M_GSM_ AGC+3dB_OBW



Remark:

Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.



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1.3 Mean output power and amplifier/booster gain

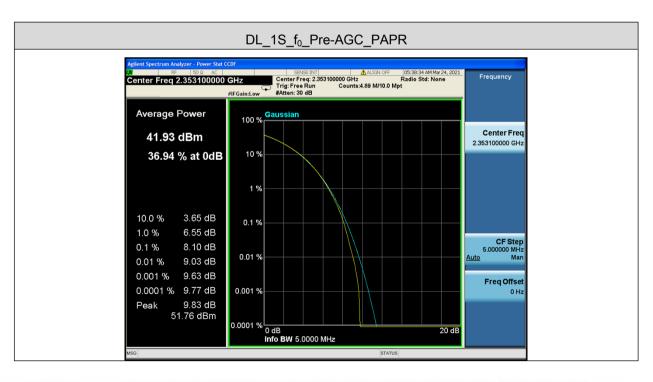
Test Conf.	Test Freq. f ₀ (MHz)	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
DL_1S_AWG N		Pre-AGC	-0.23	43.34	43.57	PASS
	2353.10	AGC+3dB	2.77	43.28	/	PASS
DL_1S_GSM	1 2353.10	Pre-AGC	-0.94	43.19	44.13	PASS
		AGC+3dB	2.06	43.30	/	PASS

Remark:

According to the declaration from the applicant, the single antenna gain should not exceed 12.5dBi, the Directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 12.5dBi+10log (2) dBi=15.5dBi.

The total maximum EIRP for the EUT is (43.34dBm+43.34dBm) +15.5dBi=61.85dBm (1531.1W) which don't exceed the required EIRP limit (2000W/5MHz).

Test Conf.	Test Freq. f ₀ (MHz)	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWG N	2353.10	Pre-AGC	9.03	13	PASS



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1.4 Out-of-band/out-of-block (including intermodulation) emissions and spurious emissions

Note:

- 1. The tested max conducted power for single antenna port is 43.34dBm, the power of any emission outside a licensee's frequency band(s) shall be attenuated below the transmitter power (P) in watts
- (i) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation.

Here.

P=43.34dBm= 21.58W.

So the limit =

P(dBm)- [43 + 10 log (21.58W)] = -13dBm

By a factor of not less than 75 + 10 log (P) dB on all frequencies between 2320 and 2345

MHz

Here,

P=43.34dBm= 21.58W.

So the limit =

P(dBm)- [75 + 10 log (21.58W)] =-45dBm

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz

Here.

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [43 + 10 log (21.58W)] = -13dBm

By a factor of not less than 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300

MHz

Here.

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [70 + 10 log (21.58W)] =-40dBm



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By a factor of not less than 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5

MHz

Here,

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [72 + 10 log (21.58W)] =-42dBm

By a factor of not less than 75 + 10 log (P) dB below 2285 MHz

Here.

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [75 + 10 log (21.58W)] =-45dBm

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and

2362.5 MHz

Here,

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [43 + 10 log (21.58W)] =-13dBm

By a factor of not less than 55 + 10 log (P) dB on all frequencies between 2362.5 and 2365

MHz

Here,

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [55 + 10 log (21.58W)] =-25dBm

By a factor of not less than 70 + 10 log (P) dB on all frequencies between 2365 and 2367.5

MHz

Here.

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [70 + 10 log (21.58W)] =-40dBm



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By a factor of not less than 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370

MHz

Here,

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [72 + 10 log (21.58W)] =-42dBm

By a factor of not less than 75 + 10 log (P) dB above 2370 MHz

Here.

P=43.34dBm= 21.58W

So the limit =

P(dBm)- [75 + 10 log (21.58W)] =-45dBm

The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit lines were set to -16.01dBm/-48.01dBm/-43.01dBm/-45.01dBm/-28.01dBm Separately in following test plots in order to determine the test result conveniently.

- 2. Spurious emissions have been tested using an AWGN test signal and a GSM-TDMA test signal, only the worst-case was recorded in this report.
- 3. Spurious emissions have been tested using a single test signal sequentially tuned to the low, middle and high channels within the authorized frequency band of operation, only the worst-case was recorded in this report.



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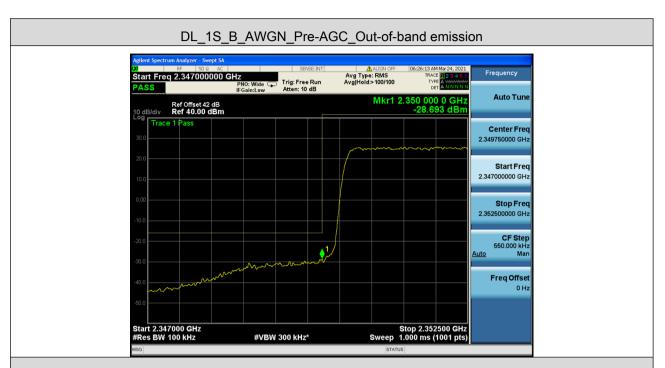
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DL_1S_B_AWGN_AGC+3_Out-of-band emission



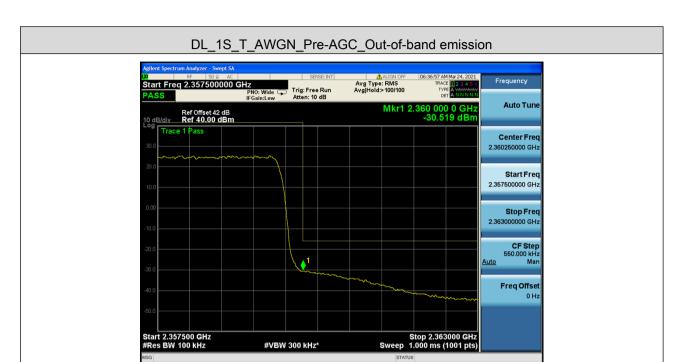
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DL 1S T AWGN AGC+3 Out-of-band emission



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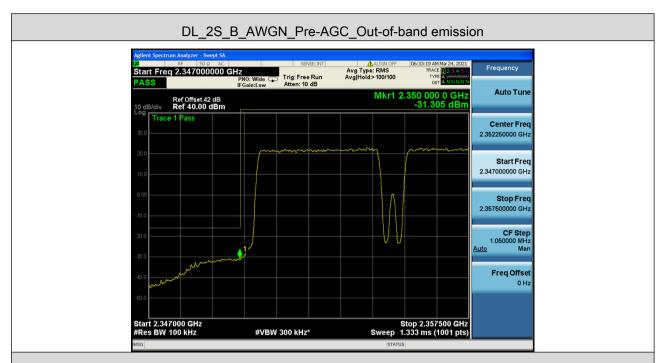
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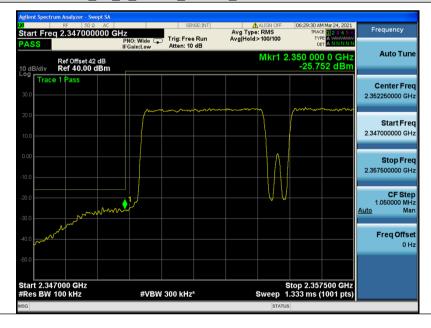
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DL_2S_B_AWGN_AGC+3_Out-of-band emission



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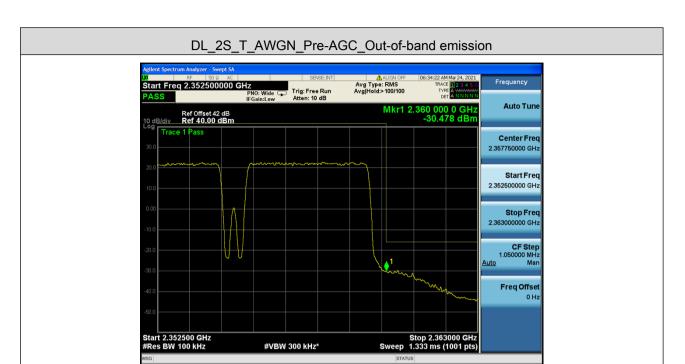
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DL_2S_T_AWGN_AGC+3_Out-of-band emission



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DL_1S_B_GSM_AGC+3_Out-of-band emission





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Start 2.359800 GHz #Res BW 100 kHz

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DL_1S_T_GSM_Pre-AGC_Out-of-band emission Aglent Spectrum Analyzer - Swept SA Start Freq 2.359900000 GHz PASS PRO_Wide Pre-Run Arten: 10 dB Wkri 2.360 0000 GHz Ref Offset 42 dB Ref 40.00 dBm Ref J Pass Pre-Run Arten: 10 dB Ref J Pass Pre-Run Arten: 10

DL_1S_T_GSM_AGC+3_Out-of-band emission

#VBW 300 kHz*

Stop 2.363000 GHz Sweep 1.000 ms (1001 pts)



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DL 2S B GSM Pre-AGC Out-of-band emission Avg Type: RMS AvgHold>100/100 Start Freq 2.359400000 GHz Auto Tune Ref Offset 42 dB Ref 40.00 dBm -18.851 dBn Center Freq 2.361200000 GHz 2.359400000 GHz 2.363000000 GH <u>Auto</u> Freq Offset Start 2.359400 GHz #Res BW 100 kHz Stop 2.363000 GHz Sweep 1.000 ms (1001 pts)

DL_2S_B_GSM_AGC+3_Out-of-band emission

#VBW 300 kHz*



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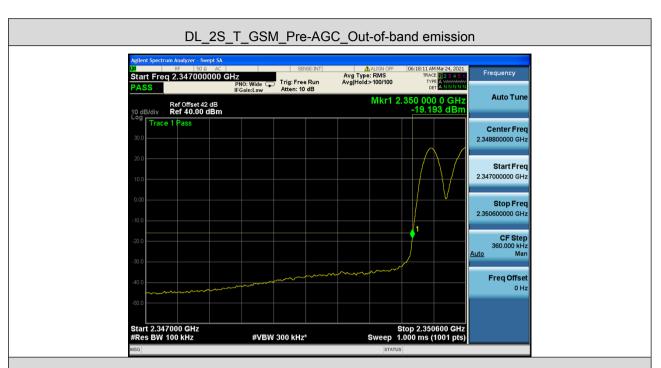
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DL_2S_T_GSM_AGC+3_Out-of-band emission



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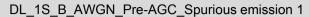
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DL 1S B AWGN Pre-AGC Spurious emission 2





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DL 1S B AWGN Pre-AGC Spurious emission 3



DL 1S B AWGN Pre-AGC Spurious emission 4





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1.5 Frequency Stability

Note:

- 1. At 10 °C intervals of temperatures between −30 °C and +50 °C at the manufacturer's rated supply voltage, here the rated supply voltage is AC 110V.
- 2. At \pm 20 °C temperature and \pm 15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the \pm 15% variation is applied to the lowermost voltage and the \pm 15% is applied to the uppermost voltage.
- 3. The frequency stabilities can be maintained within the authorized bands of operation. Meet the requirement.
- 4. Frequency stability has been tested using an AWGN test signal and a GSM-TDMA test signal, only the worst-case was recorded in this report.

Frequency stability vs temperature							
Temperature (°C)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict			
50		2355.002834	-0.27	PASS			
40		2355.004532	0.45	PASS			
30		2355.003745	0.12	PASS			
20		2355.003462	Reference	PASS			
10	DL_1S_M_AWG	2355.004582	0.48	PASS			
0	N	2355.003845	0.16	PASS			
-10		2355.002835	-0.27	PASS			
-20		2355.002693	-0.33	PASS			
-30		2355.002573	-0.38	PASS			

Frequency stability vs voltage							
Voltage (V)	Test Conf.	Test data Tolerance (MHz) (ppm)		Verdict			
AC 93.5		2355.003197	-0.11	PASS			
AC 110	DL_1S_M_AWG	2355.003462	Reference	PASS			
AC 126.5	N	2355.003235	0.10	PASS			



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1.6 Radiated spurious emissions

Note:

1. The tested max conducted power for single antenna port is 43.34dBm, the 2x2 MIMO total power is 43.34dBm+43.34dBm= 43.16W.

The power of any emission outside a licensee's frequency band(s) shall be attenuated below the transmitter power (P) in watts

(i) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation.

Here.

P=43.16W.

So the limit =

P(dBm)- [43 + 10 log (43.16W)] = -13dBm

By a factor of not less than 75 + 10 log (P) dB on all frequencies between 2320 and 2345

MHz

Here.

P=43.16W.

So the limit =

P(dBm)- [75 + 10 log (43.16W)] =-45dBm

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and

2305 MHz

Here.

P=43.16W

So the limit =

P(dBm)- [43 + 10 log (43.16W)] = -13dBm

By a factor of not less than 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300

MHz

Here.

P=43.16W

So the limit =

P(dBm)- [70 + 10 log (43.16W)] =-40dBm



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By a factor of not less than 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5

MHz

Here,

P=43.16W

So the limit =

P(dBm)- [72 + 10 log (43.16W)] =-42dBm

By a factor of not less than 75 + 10 log (P) dB below 2285 MHz

Here.

P=43.16W

So the limit =

P(dBm)- [75 + 10 log (43.16W)] =-45dBm

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and

2362.5 MHz

Here,

P=43.16W

So the limit =

P(dBm)- [43 + 10 log (43.16W)] = -13dBm

By a factor of not less than 55 + 10 log (P) dB on all frequencies between 2362.5 and 2365

MHz

Here,

P=43.16W

So the limit =

P(dBm)- [55 + 10 log (43.16W)] =-25dBm

By a factor of not less than 70 + 10 log (P) dB on all frequencies between 2365 and 2367.5

MHz

Here,

P=43.16W

So the limit =

P(dBm)-[70 + 10 log (43.16W)] = -40dBm



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By a factor of not less than 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370

MHz

Here,

P=43.16W

So the limit =

P(dBm)- [72 + 10 log (43.16W)] =-42dBm

By a factor of not less than 75 + 10 log (P) dB above 2370 MHz

Here.

P=43.16W

So the limit =

P(dBm)- [75 + 10 log (43.16W)] =-45dBm

- 2. The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.
- 3. The disturbance from 9kHz to 30MHz was very low and 20db below the limit, therefore, the data was not recorded in the report.
- 4. The strictest limit -45dBm was used for evaluating the radiated spurious emissions from 9kHz~18GHz



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DL 1S M AWGN Horizontal 30MHz~1GHz 20 Level (dBm) 10 -10 -30 45DBM -50 3 6 -70 2 -90 -110 -120¹30 50 100 200 500 1000 Frequency (MHz) Limit Read Correction Over Freq Level Limit Pol/Phase Factor Level Line MHz dBm dB dBm dBm dB 35.00 -77.632.87 -74.76 -44.99 -29.77 HORIZONTAL 1 2 58.00 -75.58 -2.36 -77.94 -44.99 -32.95 HORIZONTAL 3 -58.28 -6.42 -64.70 -44.99 160.91 -19.71 HORIZONTAL 4 276.12 -63.46 -2.63 -66.09 -44.99 -21.10 HORIZONTAL 5 501.18 -69.69 0.39 -69.30 -44.99 -24.31 HORIZONTAL 893.86 -79.12 9.15 -69.97 -44.99 -24.98 HORTZONTAL

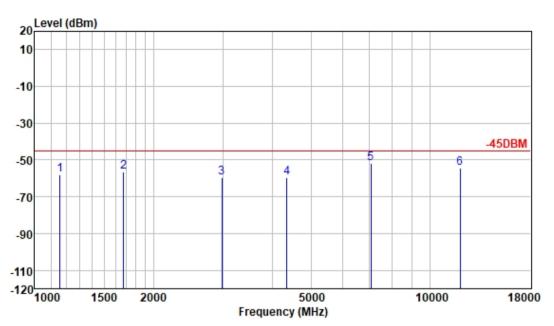


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DL 1S M AWGN Horizontal above 1GHz



		Read Correction		Limit	0ver		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1158.83	-61.15	3.26	-57.89	-44.99	-12.90	HORIZONTAL
2	1677.62	-62.67	6.16	-56.51	-44.99	-11.52	HORIZONTAL
3	2973.29	-62.18	2.85	-59.33	-44.99	-14.34	HORIZONTAL
4	4341.89	-63.94	4.38	-59.56	-44.99	-14.57	HORIZONTAL
5	7076.52	-70.95	19.16	-51.79	-44.99	-6.80	HORIZONTAL
6	11906.07	-75.27	21.10	-54.17	-44.99	-9.18	HORIZONTAL

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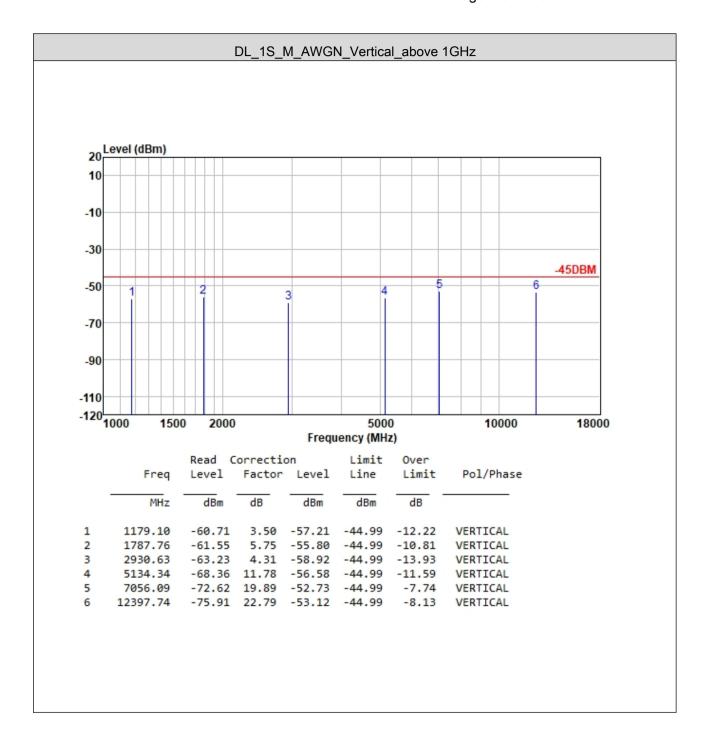
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DL 1S M AWGN Vertical 30MHz~1GHz 20 Level (dBm) 10 -10 -30 45DBM -50 3 5 6 -70 -90 -110 -120¹30 100 50 200 500 1000 Frequency (MHz) Limit Correction Read Over Freq Level Limit Pol/Phase Factor Level Line MHz dBm dB dBm dBm dB -2.77 1 57.80 -65.44-68.21 -44.99 -23.22 VERTICAL 2 -67.79 -4.49 -72.28 -44.99 -27.29 VERTICAL 109.80 3 -63.27 -3.94 -67.21 -44.99 -22.22 169.01 VERTICAL 4 260.14 -66.61 -4.54 -71.15 -44.99 -26.16 VERTICAL 5 494.20 -70.69 1.92 -68.77 -44.99 -23.78 VERTICAL 860.04 -78.69 7.92 -70.77 -44.99 -25.78 VERTICAL





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-- End of Appendix--



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S Co., Ltd. No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编:510663 t (86-20) 82155555 t (86-20) 82155555

www.sgsgroup.com.cn sgs.china@sgs.com