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Application No.: GZCR2103000022AT

# Appendix B

# Test Data and Result Details of GZCR2103000022AT



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# 1 AWS-2 & AWS-4 (only for downlink: 1995-2020MHz)

#### 1.1 AGC threshold level

Test Conf.	AGC Threshold level
DL_1S_M_AWGN	-0.20dBm
DL_1S_M_GSM	-0.25dBm



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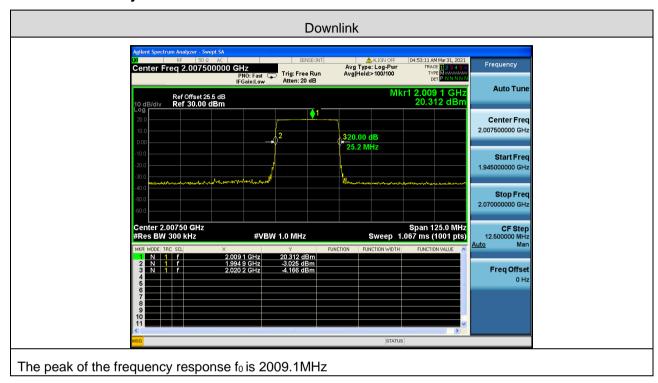
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### 1.2 Out-of-band rejection





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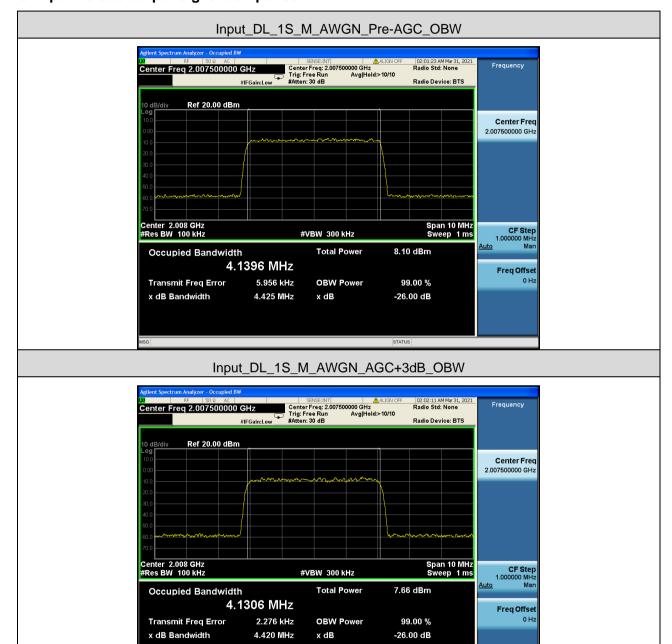
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# 1.3 Input-versus-output signal comparison





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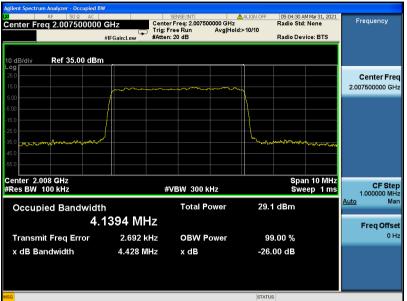
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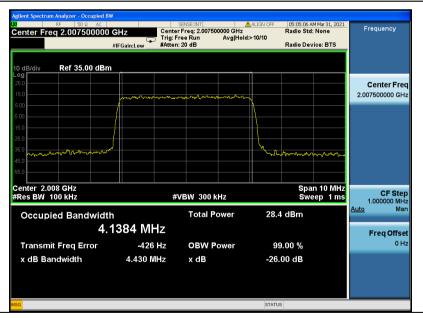
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# Output\_DL\_1S\_M\_AWGN\_Pre-AGC\_OBW



# Output\_DL\_1S\_M\_AWGN\_AGC+3dB\_OBW





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# Input DL 1S M GSM Pre-AGC OBW



# Input DL 1S M GSM AGC+3dB OBW





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# Output DL 1S M GSM Pre-AGC OBW



# Output\_DL\_1S\_M\_GSM\_AGC+3dB\_OBW





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#### 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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### 1.4 Mean output power and amplifier/booster gain

Test Conf.	Test Freq. f <sub>0</sub> (MHz)	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
		Pre-AGC	-0.30	20.10	20.40	PASS
DL_1S_AWGN	2009.1	AGC+3dB	2.70	20.24	/	PASS
		Pre-AGC	-0.35	20.26	20.61	PASS
DL_1S_GSM	2009.1	AGC+3dB	2.65	20.18	/	PASS

#### Remark:

1. According to the declaration from the applicant, the antenna gain should not exceed 12.5dBi, the Directional gain =  $G(ANT) + 10 \log (NANT) dBi = 12.5dBi + 10 \log (2) dBi = 15.5dBi$ .

The total maximum EIRP for the EUT is (20.26dBm+20.26dBm) +15.5dBi=38.92dBm (7.80W) which don't exceed the required EIRP limit (1640W/MHz).

2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.50(d)(1) and 27.50(d)(2) apply.



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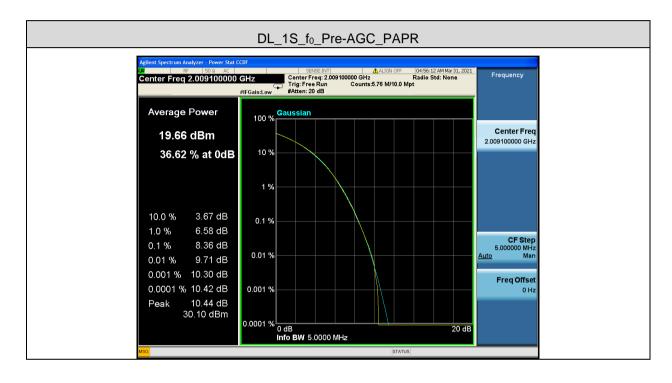
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Test Conf.	Test Freq. fo	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	2009.1	Pre-AGC	9.71	13	PASS





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

Note:

The EUT support 2x2 MIMO, Per 662911 D01 Multiple Transmitter Output v02r01 clause (3)(a)(iii): Measure and add 10 log(NANT) dB, where NANT is the number of outputs to combine the emission measurements from multiple outputs prior to comparing to the emission limit.

Here, the factor 10 log (NANT) dB= 10 log (2) dB=3.01dB.

1. The tested max conducted power for single antenna port is 20.26dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB

Here,

P=20.26dBm= 0.1062W.

So the limit =

P(dBm)- [43 + 10 log (0.1062W)] = -13dBm

The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.

- 2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.
- 3. Pretest performe at AWS-2: 1995MHz to 2000MHz block;

Pretest performe at AWS-4: 2000MHz to 2020MHz block;

Pretest performe at combined AWS-4 and AWS-2: 1995MHz to 2020MHz block;

As the emission limit of above sub-block are identical, therefore, only the worst-case combined AWS-4 and AWS-2 block test plot was record in the report.



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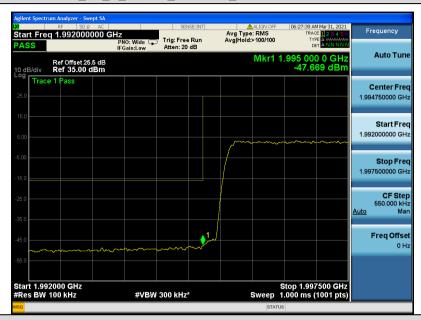
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### DL\_1S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



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





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### DL\_1S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



#### DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission





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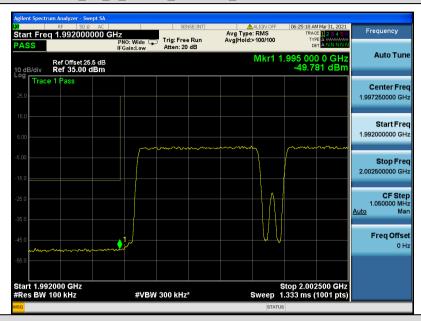
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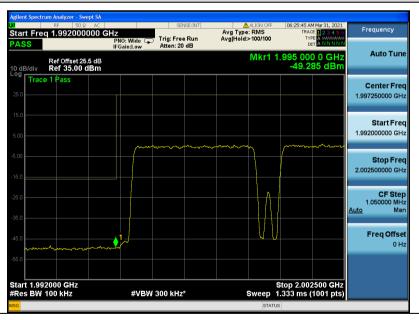
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### DL 2S B AWGN Pre-AGC Out-of-band emission



### DL\_2S\_B\_AWGN\_AGC+3\_Out-of-band emission





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### DL 2S T AWGN Pre-AGC Out-of-band emission



#### DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission





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### DL 1S B GSM Pre-AGC Out-of-band emission



### DL 1S B GSM AGC+3 Out-of-band emission





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### DL\_1S\_T\_GSM\_Pre-AGC\_Out-of-band emission



### DL\_1S\_T\_GSM\_AGC+3\_Out-of-band emission





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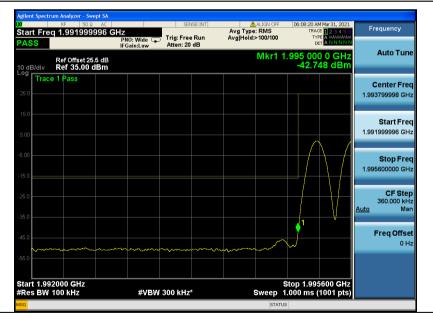
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### DL 2S B GSM Pre-AGC Out-of-band emission



### DL 2S B GSM AGC+3 Out-of-band emission





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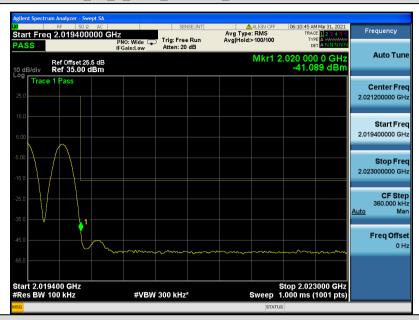
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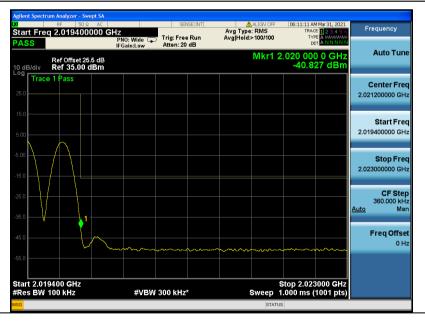
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### DL\_2S\_T\_GSM\_Pre-AGC\_Out-of-band emission



### DL\_2S\_T\_GSM\_AGC+3\_Out-of-band emission





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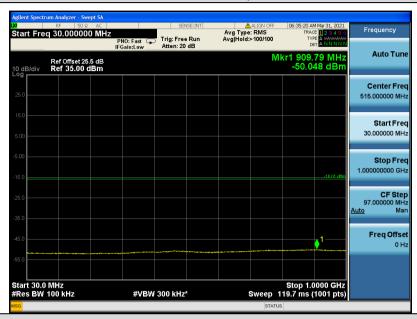
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### DL 1S B AWGN Pre-AGC Spurious emission 1



### DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 2





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### DL 1S B AWGN Pre-AGC Spurious emission 3



# DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1





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### DL 1S M AWGN Pre-AGC Spurious emission 2



### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3





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### DL 1S T AWGN Pre-AGC Spurious emission 1



# DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2





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### DL 1S T AWGN Pre-AGC Spurious emission 3



# DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 1





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# DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 2



# DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 3





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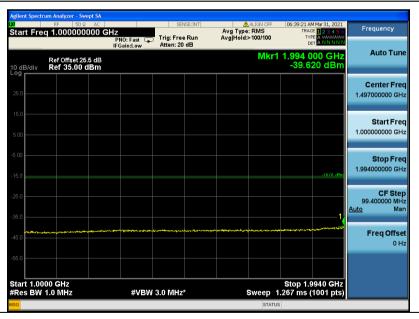
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# DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 1



# DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 2





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### DL 1S M GSM Pre-AGC Spurious emission 3



# DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 1





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### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 2



# DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 3





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# 1.6 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 DC 48V.
- 2. At +20 °C temperature and  $\pm15\%$  supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +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.



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Frequency stability vs temperature							
Temperature (°C)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict			
50		2007.516276	-0.04	PASS			
40		2007.516237	-0.06	PASS			
30		2007.516398	0.02	PASS			
20		2007.516354	Reference	PASS			
10	DL_1S_M_AWGN	2007.516163	-0.09	PASS			
0		2007.516324	-0.01	PASS			
-10		2007.516286	-0.03	PASS			
-20		2007.516263	-0.05	PASS			
-30		2007.516274	-0.04	PASS			

Frequency stability vs voltage							
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict			
DC 40.8		2007.516382	0.01	PASS			
DC 48	DL_1S_M_AWGN	2007.516354	Reference	PASS			
DC 55.2		2007.516212	-0.07	PASS			



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### 1.7 Radiated spurious emissions

Note:

1. The tested max conducted power for single antenna port is 20.21dBm. the 2x2 MIMO total power is 20.21dBm+20.21dBm= 0.2100W.

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB

Here,

P=0.2100W,

So the limit =

P(dBm)- [43 + 10 log (0.2100W)] = -13dBm

- 2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.
- 3. 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.
- 4. The disturbance 9kHz to 30MHz was very low and 20dB below the limit, therefore, the data was not recorded in the report.



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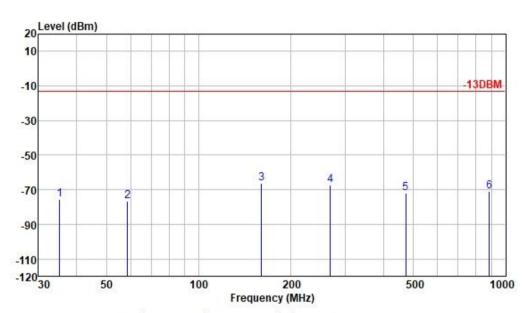
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### DL\_1S\_M\_AWGN\_Horizontal\_30MHz~1GHz



		Read C	orrection	on	Limit	0ver	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
925	MHz	dBm	dB	dBm	dBm	dB	- 5
1	35.13	-78.35	2.85	-75.50	-12.99	-62.51	HORIZONTAL
2	58.61	-74.24	-2.41	-76.65	-12.99	-63.66	HORIZONTAL
3	160.35	-60.00	-6.44	-66.44	-12.99	-53.45	HORIZONTAL
4	268.49	-63.97	-3.18	-67.15	-12.99	-54.16	HORIZONTAL
5	472.18	-72.30	0.33	-71.97	-12.99	-58.98	HORIZONTAL
6	884.50	-79.54	8.60	-70.94	-12.99	-57.95	HORIZONTAL



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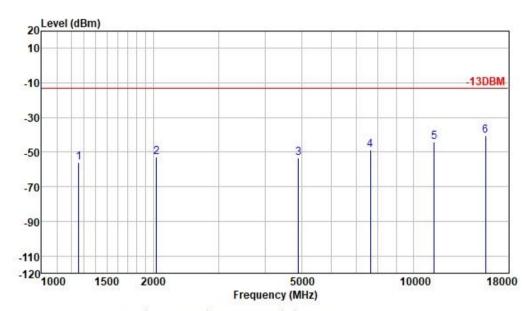
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#### DL 1S M AWGN Horizontal above 1GHz



		Read C	orrection	on	Limit	0ver	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	30
1	1260.15	-60.19	4.01	-56.18	-12.99	-43.19	HORIZONTAL
2	2036.09	-62.55	9.79	-52.76	-12.99	-39.77	HORIZONTAL
3	4902.30	-62.95	9.76	-53.19	-12.99	-40.20	HORIZONTAL
4	7650.89	-63.66	15.12	-48.54	-12.99	-35.55	HORIZONTAL
5	11368.00	-66.10	21.79	-44.31	-12.99	-31.32	HORIZONTAL
6	15622.99	-62.11	21.88	-40.23	-12.99	-27.24	HORIZONTAL



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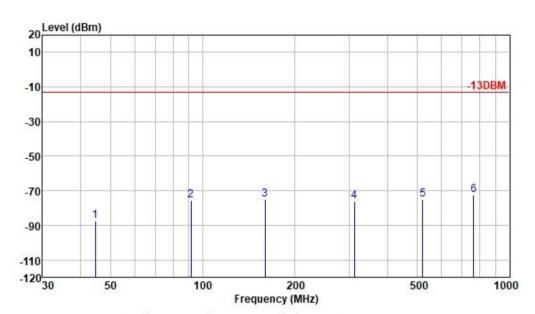
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### DL\_1S\_M\_AWGN\_Vertical\_30MHz~1GHz



		Read Correction			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
123	MHz	dBm	dB	dBm	dBm	dB	
1	44.59	-75.02	-12.53	-87.55	-12.99	-74.56	VERTICAL
2	91.49	-68.96	-6.87	-75.83	-12.99	-62.84	VERTICAL
3	159.78	-71.14	-3.94	-75.08	-12.99	-62.09	VERTICAL
4	312.18	-73.37	-2.61	-75.98	-12.99	-62.99	VERTICAL
5	520.89	-76.19	1.12	-75.07	-12.99	-62.08	VERTICAL
6	763.38	-78.98	6.73	-72.25	-12.99	-59.26	VERTICAL



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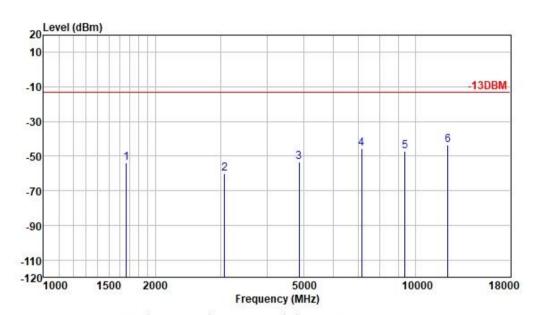
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#### DL 1S M AWGN Vertical above 1GHz



		Read Correction		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	30
1	1667.95	-59.27	5.39	-53.88	-12.99	-40.89	VERTICAL
2	3069.35	-62.86	2.83	-60.03	-12.99	-47.04	VERTICAL
3	4859.98	-62.49	9.30	-53.19	-12.99	-40.20	VERTICAL
4	7158.81	-65.01	19.35	-45.66	-12.99	-32.67	VERTICAL
5	9366.58	-64.60	17.32	-47.28	-12.99	-34.29	VERTICAL
6	12219.85	-66.06	22.43	-43.63	-12.99	-30.64	VERTICAL



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2 AWS-4 (only for downlink: 2180-2200MHz)

#### 2.1 AGC threshold level

Test Conf.	AGC Threshold level
DL_1S_M_AWGN	0.00dBm
DL_1S_M_GSM	0.20dBm



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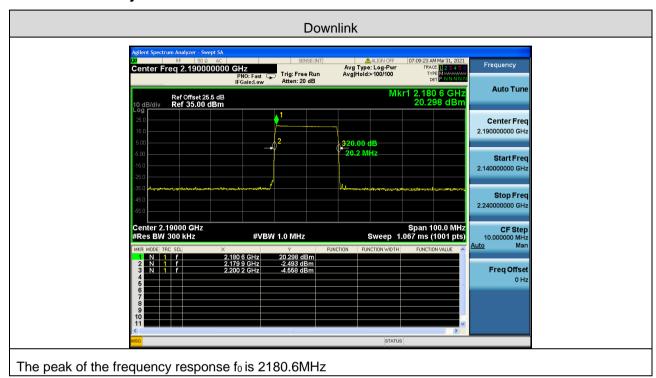
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#### 2.2 Out-of-band rejection





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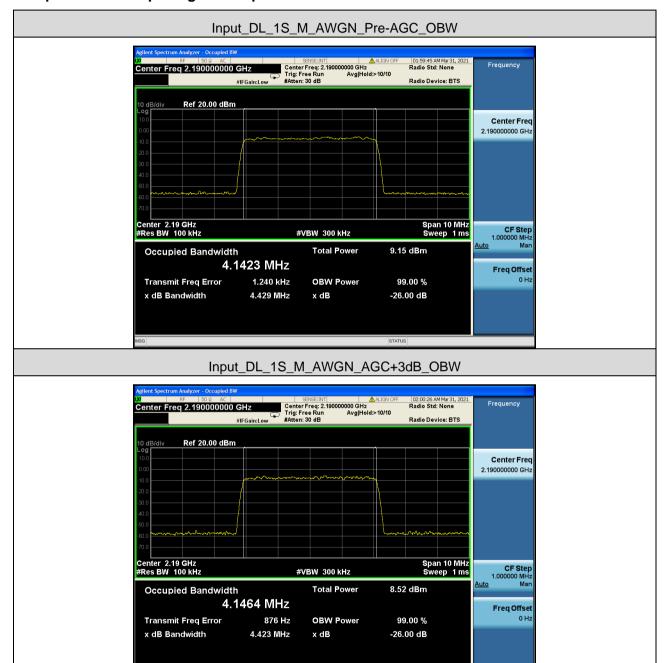
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#### 2.3 Input-versus-output signal comparison





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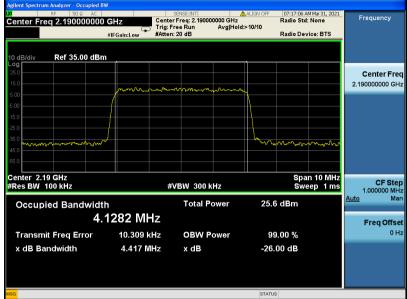
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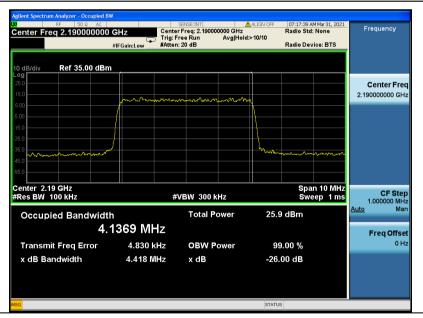
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## Output DL 1S M AWGN Pre-AGC OBW



#### Output DL 1S M AWGN AGC+3dB OBW





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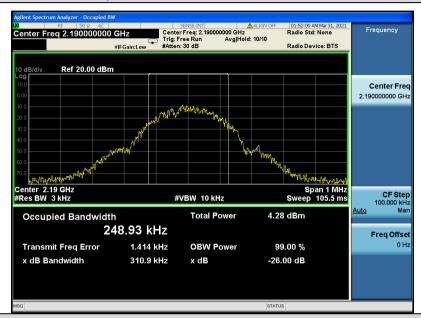
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#### Input DL 1S M GSM Pre-AGC OBW



#### Input DL 1S M GSM AGC+3dB OBW





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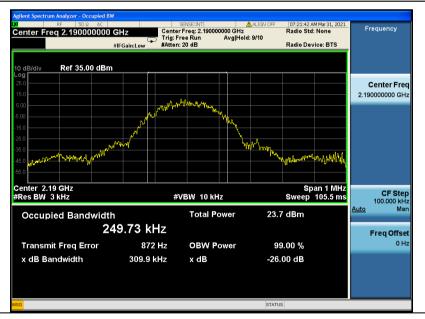


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#### Output DL 1S M GSM Pre-AGC OBW |07:20:48 AM Mar 31, 2021 Radio Std: None SENSE: INT ALIGN C Center Freq: 2.190000000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 20 dB Center Freq 2.190000000 GHz Radio Device: BTS Ref 35.00 dBm Center Fred 2.190000000 GH: watella Center 2.19 GHz #Res BW 3 kHz Span 1 MHz Sweep 105.5 ms CF Step 100.000 kHz #VBW 10 kHz Ma Total Power 23.5 dBm Occupied Bandwidth 249.94 kHz Transmit Freq Error 1.218 kHz **OBW Power** 99.00 % x dB Bandwidth 311.2 kHz -26.00 dB

#### Output\_DL\_1S\_M\_GSM\_AGC+3dB\_OBW





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#### 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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#### 2.4 Mean output power and amplifier/booster gain

Test Conf.	Test Freq. f <sub>0</sub> (MHz)	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
DL_1S_AWGN	2180.6	Pre-AGC	-0.10	20.34	20.44	PASS
		AGC+3dB	2.90	20.15	/	PASS
	2180.6	Pre-AGC	-0.30	20.31	20.61	PASS
DL_1S_GSM		AGC+3dB	2.70	20.26	/	PASS

#### Remark:

According to the declaration from the applicant, the antenna gain should not exceed 12.5dBi, the

Directional gain = G(ANT) + 10 log (NANT) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

The total maximum EIRP for the EUT is (20.34dBm+20.34dBm) +15.5dBi=38.92dBm (7.80W)

which don't exceed the required EIRP limit (1640W/MHz)



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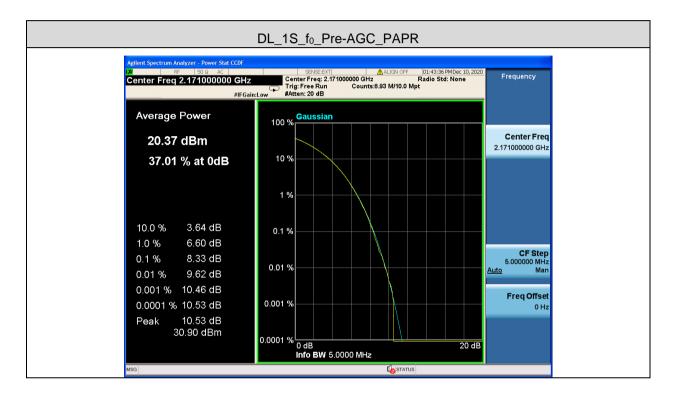
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Test Conf.	Test Freq. fo	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	2180.6	Pre-AGC	8.3	13	PASS





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

Note:

The tested max conducted power for single antenna port is 20.34dBm, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB

Here,

P=20.34dBm= 0.1081W.

So the limit =

P(dBm)- [43 + 10 log (0.1081W)] = -13dBm

The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.



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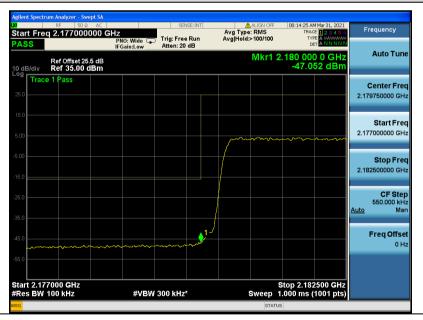
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#### DL 1S B AWGN Pre-AGC Out-of-band emission



#### DL\_1S\_B\_AWGN\_AGC+3\_Out-of-band emission





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#### DL 1S T AWGN Pre-AGC Out-of-band emission



#### DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission





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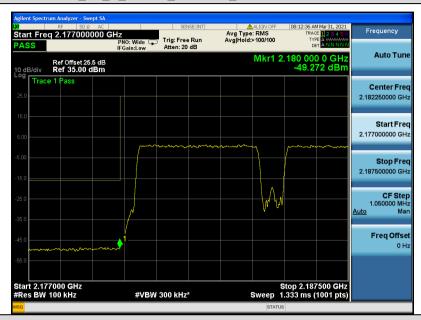
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#### DL\_2S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



#### DL\_2S\_B\_AWGN\_AGC+3\_Out-of-band emission





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#### DL 2S T AWGN Pre-AGC Out-of-band emission



#### DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission





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#### DL 1S B GSM Pre-AGC Out-of-band emission



#### DL 1S B GSM AGC+3 Out-of-band emission





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#### DL 1S T GSM Pre-AGC Out-of-band emission



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





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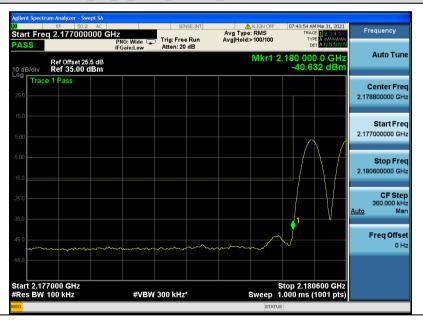
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#### DL 2S B GSM Pre-AGC Out-of-band emission



#### DL 2S B GSM AGC+3 Out-of-band emission





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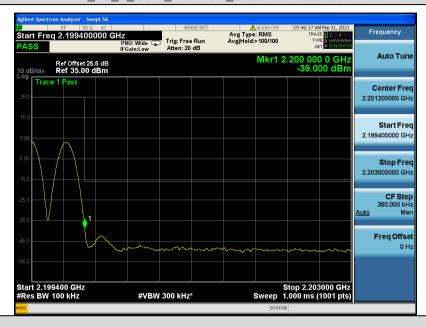
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#### DL 2S T GSM Pre-AGC Out-of-band emission



#### DL\_2S\_T\_GSM\_AGC+3\_Out-of-band emission





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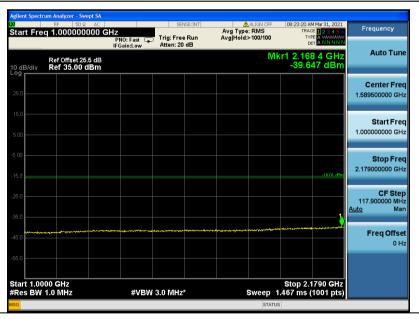
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#### DL 1S B AWGN Pre-AGC Spurious emission 1



#### DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 2





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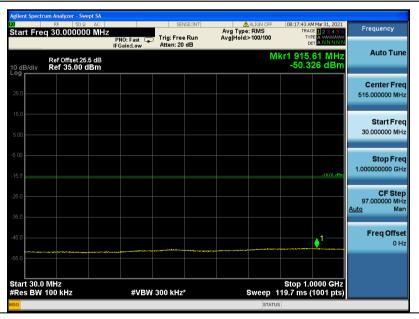
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#### DL 1S B AWGN Pre-AGC Spurious emission 3



#### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1





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#### DL 1S M AWGN Pre-AGC Spurious emission 2



#### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3





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#### DL 1S T AWGN Pre-AGC Spurious emission 1



#### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2





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#### DL 1S T AWGN Pre-AGC Spurious emission 3



### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 1





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### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 2



### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 3





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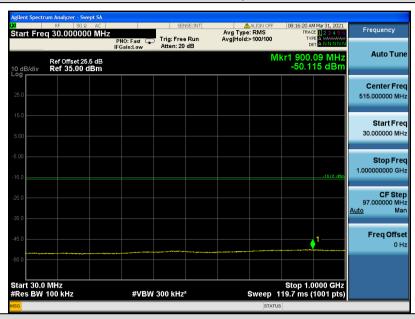
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#### DL 1S M GSM Pre-AGC Spurious emission 1



#### DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 2





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#### DL 1S M GSM Pre-AGC Spurious emission 3



### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 1





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#### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 2



### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 3





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#### 2.6 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 DC 48V.
- 2. At +20 °C temperature and  $\pm15\%$  supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +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.



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Frequency stability vs temperature								
Temperature (℃)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict				
50		2155.512386	-0.02	PASS				
40		2155.512492	0.03	PASS				
30		2155.512352	-0.04	PASS				
20		2155.512432	Reference	PASS				
10	DL_1S_M_AWGN	2155.512346	-0.04	PASS				
0		2155.512374	-0.03	PASS				
-10		2155.512396	-0.02	PASS				
-20		2155.512411	-0.01	PASS				
-30		2155.512480	0.02	PASS				

Frequency stability vs voltage								
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict				
DC 40.8		2155.512398	-0.02	PASS				
DC 48	DL_1S_M_AWGN	2155.512432	Reference	PASS				
DC 55.2		2155.512410	-0.01	PASS				



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#### 2.7 Radiated spurious emissions

Note:

1. The tested max conducted power for single antenna port is 20.36dBm. the 2x2 MIMO total power is 20.36dBm+20.36dBm= 0.2173W.

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB

Here,

P=0.2173W,

So the limit =

P(dBm)- [43 + 10 log (0.2173W)] = -13dBm

For these AWS-4 operations in the 2180-2200 MHz band, the power of any emissions on all frequencies between 2200 and 2290 MHz shall not exceed an EIRP of −100.6 dBW/4 kHz.

- -100.6 dBW/4 kHz = -70.6 dBm/4 kHz = -46.6 dBm/1 MHz
- 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 9kHz to 30MHz was very low and 20dB below the limit, therefore, the data was not recorded in the report.



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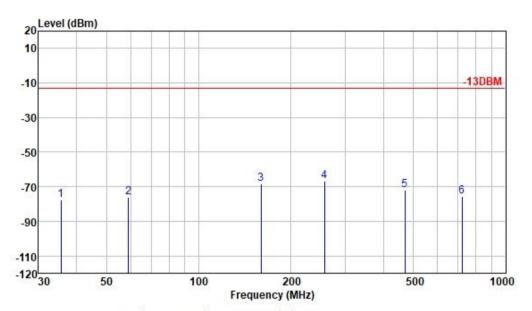
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#### DL 1S M AWGN Horizontal 30MHz~1GHz



		Read Correction			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
523	MHz	dBm	dB	dBm	dBm	dB	
1	35.50	-80.54	2.80	-77.74	-12.99	-64.75	HORIZONTAL
2	59.03	-73.55	-2.45	-76.00	-12.99	-63.01	HORIZONTAL
3	159.78	-61.72	-6.46	-68.18	-12.99	-55.19	HORIZONTAL
4	256.52	-62.01	-4.71	-66.72	-12.99	-53.73	HORIZONTAL
5	468.88	-72.26	0.32	-71.94	-12.99	-58.95	HORIZONTAL
6	721.73	-79.08	3.65	-75.43	-12.99	-62.44	HORIZONTAL



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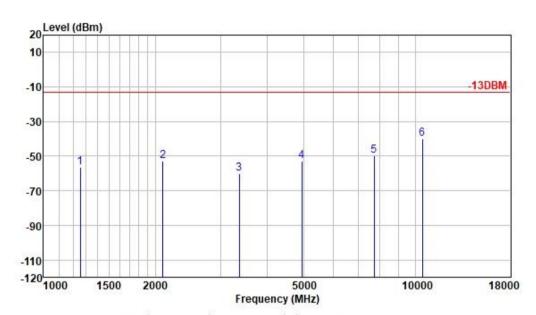
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#### DL 1S M AWGN Horizontal above 1GHz



		Read Correction			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1256.51	-60.24	3.99	-56.25	-12.99	-43.26	HORIZONTAL
2	2095.80	-62.21	9.56	-52.65	-12.99	-39.66	HORIZONTAL
3	3357.06	-62.31	2.21	-60.10	-12.99	-47.11	HORIZONTAL
4	4944.99	-63.24	10.49	-52.75	-12.99	-39.76	HORIZONTAL
5	7739.86	-64.40	14.57	-49.83	-12.99	-36.84	HORIZONTAL
6	10423.80	-63.08	23.11	-39.97	-12.99	-26.98	HORIZONTAL



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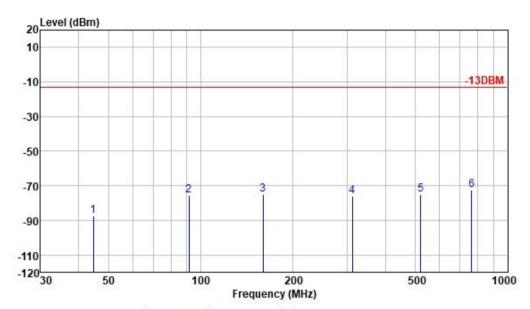
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#### DL 1S M AWGN Vertical 30MHz~1GHz



		Read Correction			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	
925	MHz	dBm	dB	dBm	dBm	dB	60	
1	44.59	-75.02	-12.53	-87.55	-12.99	-74.56	VERTICAL	
2	91.49	-68.96	-6.87	-75.83	-12.99	-62.84	VERTICAL	
3	159.78	-71.14	-3.94	-75.08	-12.99	-62.09	VERTICAL	
4	312.18	-73.37	-2.61	-75.98	-12.99	-62.99	VERTICAL	
5	520.89	-76.19	1.12	-75.07	-12.99	-62.08	VERTICAL	
6	763.38	-78.98	6.73	-72.25	-12.99	-59.26	VERTICAL	



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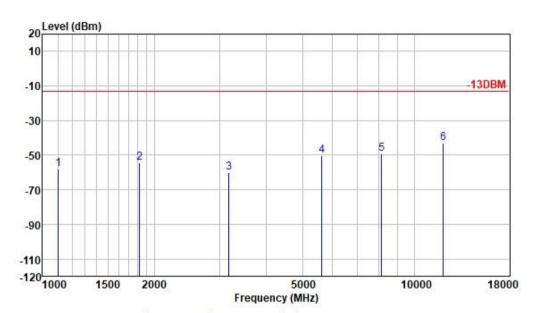
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#### DL 1S M AWGN Vertical above 1GHz



		Read Correction			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	60
1	1103.26	-62.57	4.70	-57.87	-12.99	-44.88	VERTICAL
2	1824.30	-60.56	6.03	-54.53	-12.99	-41.54	VERTICAL
3	3168.50	-62.57	2.64	-59.93	-12.99	-46.94	VERTICAL
4	5631.88	-64.98	14.47	-50.51	-12.99	-37.52	VERTICAL
5	8153.20	-64.62	15.21	-49.41	-12.99	-36.42	VERTICAL
6	11940.54	-64.84	21.71	-43.13	-12.99	-30.14	VERTICAL



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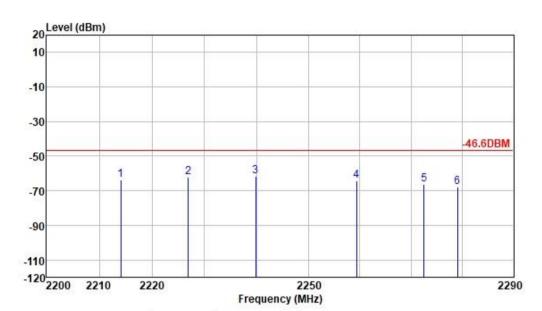
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#### DL 1S M AWGN Horizontal 2200-2290MHz



		Read C	orrection	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	60
1	2214.11	-72.72	9.27	-63.45	-46.60	-16.85	HORIZONTAL
2	2226.95	-71.21	9.32	-61.89	-46.60	-15.29	HORIZONTAL
3	2239.86	-71.01	9.38	-61.63	-46.60	-15.03	HORIZONTAL
4	2259.37	-73.71	9.47	-64.24	-46.60	-17.64	HORIZONTAL
5	2272.47	-75.80	9.51	-66.29	-46.60	-19.69	HORIZONTAL
6	2279.04	-77.35	9.53	-67.82	-46.60	-21.22	HORIZONTAL



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#### DL 1S M AWGN Vertical 2200-2290MHz 20 Level (dBm) -10 -30 46.6DBM -50 3 4 5 6 -70 -90 -110 -120 2200 2210 2220 2250 2290 Frequency (MHz) Read Correction Limit Over Freq Level Factor Level Line Limit Pol/Phase MHz dBm dB dBm dBm dB 2207.72 -71.99 9.43 -62.56 -46.60 -15.96 VERTICAL 1 2 2220.52 -70.05 9.45 -60.60 -46.60 -14.00 VERTICAL 3 2233.40 -68.82 9.47 -59.35 -46.60 -12.75 VERTICAL 2252.85 -70.03 9.51 -60.52 -46.60 -13.92 VERTICAL 5 2272.47 -71.63 9.55 -62.08 -46.60 -15.48 VERTICAL 6 2285.64 -71.47 9.56 -61.91 -46.60 -15.31 VERTICAL

#### -- End of Appendix B--



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