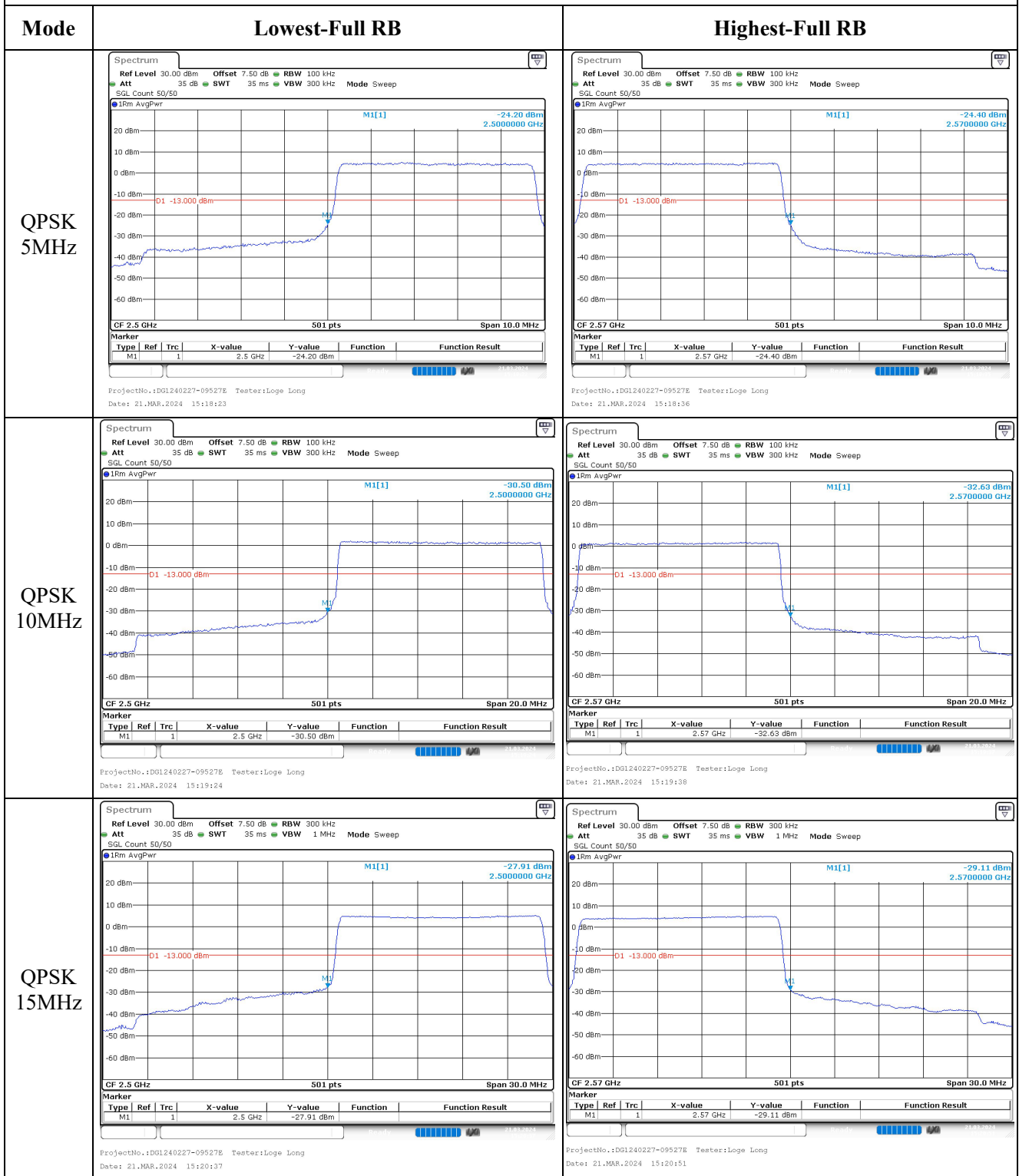
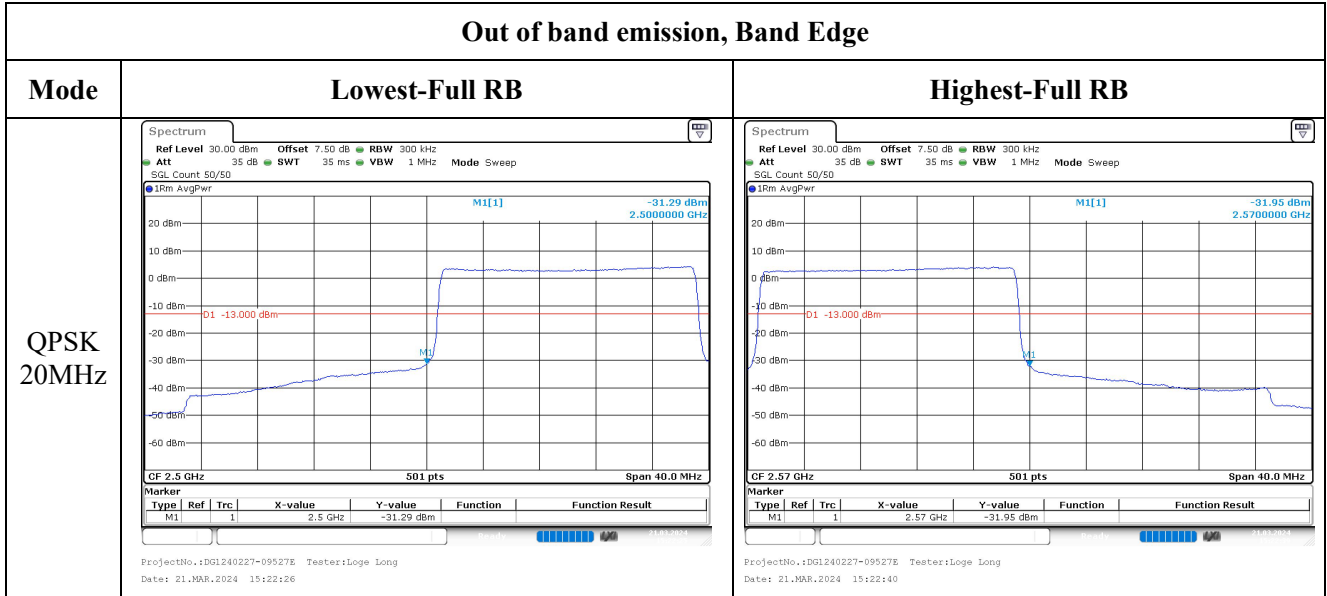


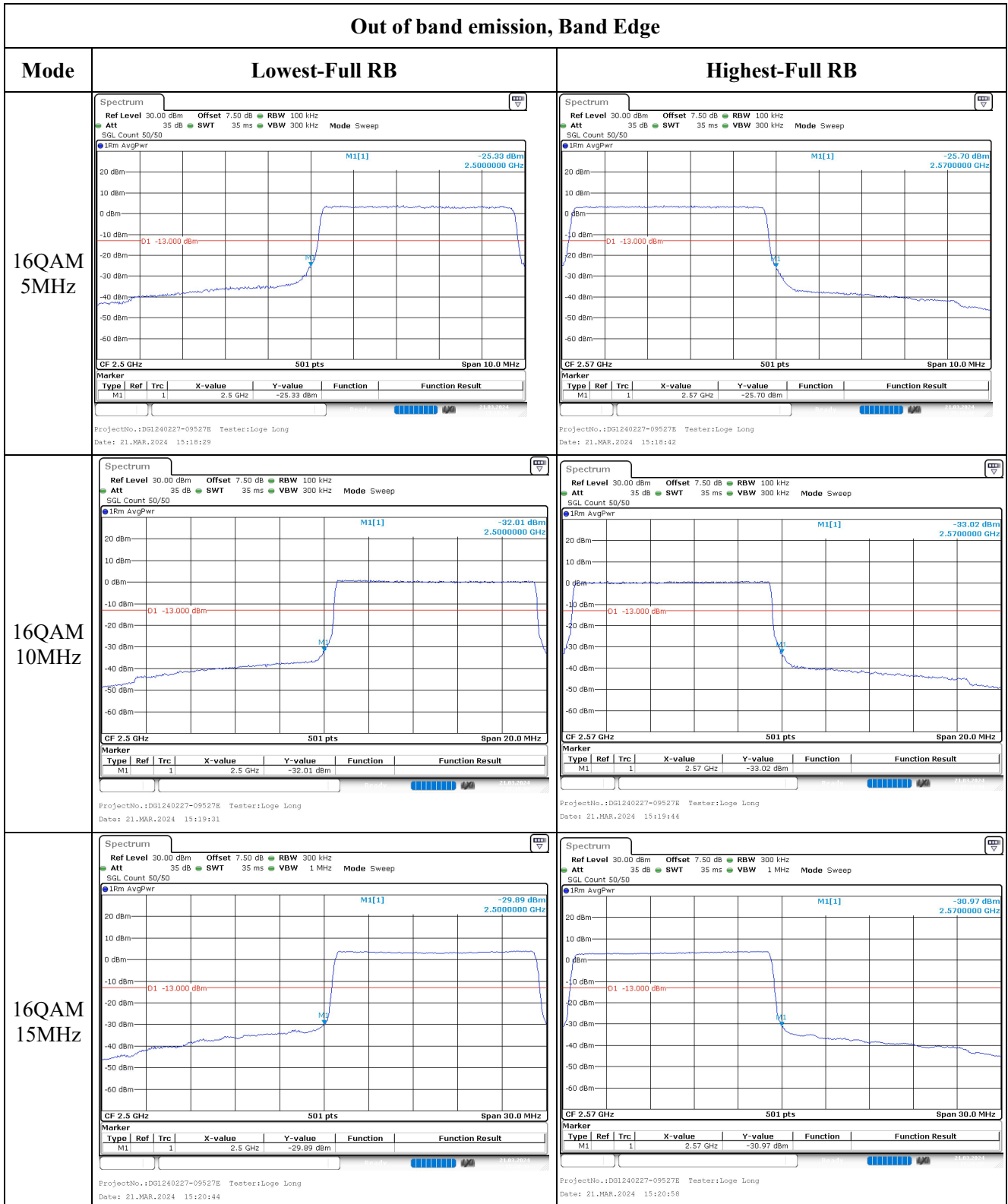
Out of band emission, Band Edge



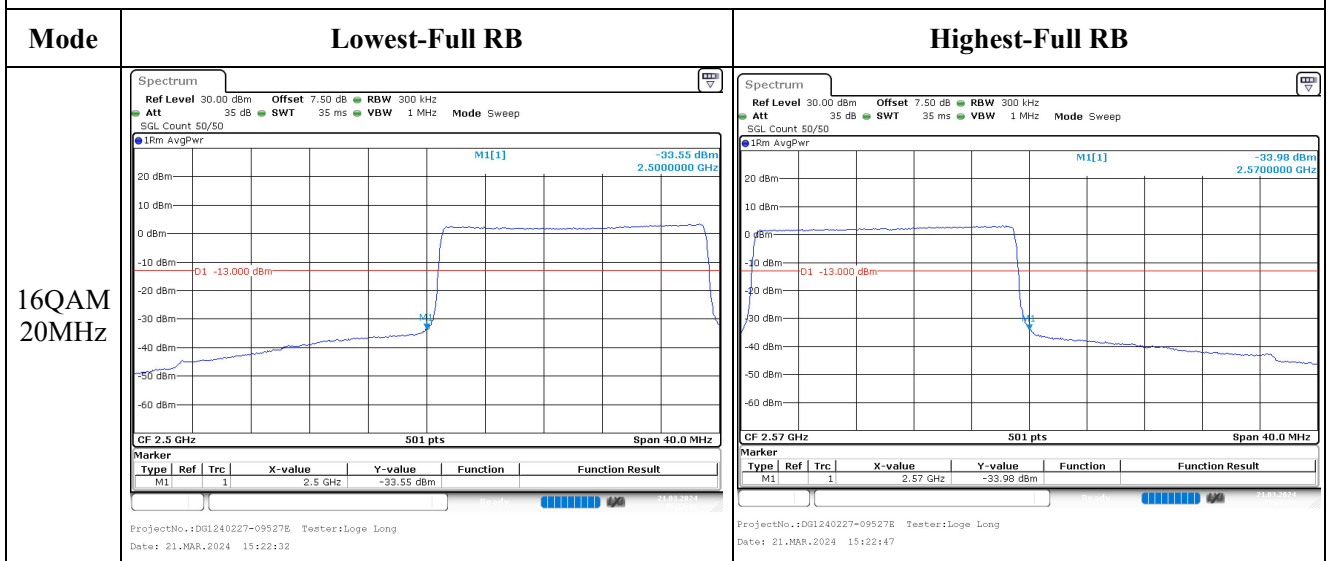
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



**5.9 Radiated Spurious Emissions**

Serial Number:	2I25-1	Test Date:	Below 1GHz: 2024/3/18 Above 1GHz: 2024/3/20
Test Site:	Chamber 10m, Chamber B	Test Mode:	Transmitting
Tester:	Zoo Zou, Alan Xie	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	23.1~23.4	Relative Humidity: (%)	45.0~63	ATM Pressure: (kPa)	100.9~101.7
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
30MHz~1000MHz					
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2023/8/1	2024/7/31
Sonoma	Amplifier	310N	185914	2023/8/1	2024/7/31
R&S	EMI Test Receiver	ESCI	100224	2023/8/18	2024/8/17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2023/9/4	2024/9/3
Agilent	Signal Generator	E8247C	MY43321350	2023/10/18	2024/10/17
R&S	Wideband Radio Communication Tester	CMW500	149216	2023/10/18	2024/10/17

Above 1GHz					
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-03 1304	2023/2/22	2026/2/21
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2023/9/6	2024/9/5
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J- 2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2023/9/4	2024/9/3
AH	Preamplifier	PAM-0118P	530	2023/9/1	2024/8/31
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
Agilent	Spectrum Analyzer	E4440A	MY44303352	2023/10/18	2024/10/17
Agilent	Signal Generator	E8247C	MY43321350	2023/10/18	2024/10/17
R&S	Wideband Radio Communication Tester	CMW500	110479	2023/10/18	2024/10/17
Sinoscite	Band Rejection Filter	BSF824-862MS	1438001	2023/6/16	2024/6/15
Sinoscite	Band Rejection Filter	BSF1710-1785MN	0383003	2023/6/16	2024/6/15
Sinoscite	Band Rejection Filter	BSF1850-1910MS	0935V2001	2023/6/16	2024/6/15
Sinoscite	Band Rejection Filter	BSF2500-2750MS	1439001	2023/6/16	2024/6/15
Micro-tronics	High Pass Filter	HPM50111	G217	2023/12/1	2024/11/30

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**Cellular Band (30MHz-10GHz)**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 850 Frequency:824.2MHz								
800.47	H	47.57	-50.95	0.00	0.36	-51.31	-13.00	38.31
800.62	V	46.39	-49.09	0.00	0.36	-49.45	-13.00	36.45
1648.40	H	79.62	-39.03	10.45	1.28	-29.86	-13.00	16.86
1648.40	V	77.98	-40.80	10.45	1.28	-31.63	-13.00	18.63
2472.60	H	71.04	-45.31	12.16	1.23	-34.38	-13.00	21.38
2472.60	V	64.52	-50.23	12.16	1.23	-39.30	-13.00	26.30
3296.80	H	58.95	-57.12	12.28	1.57	-46.41	-13.00	33.41
3296.80	V	61.47	-52.73	12.28	1.57	-42.02	-13.00	29.02
GPRS 850 Frequency:836.6MHz								
800.70	H	47.09	-51.42	0.00	0.36	-51.78	-13.00	38.78
801.03	V	46.30	-49.17	0.00	0.36	-49.53	-13.00	36.53
1673.20	H	79.41	-39.04	10.52	1.27	-29.79	-13.00	16.79
1673.20	V	76.98	-41.71	10.52	1.27	-32.46	-13.00	19.46
2509.80	H	65.74	-50.65	12.20	1.25	-39.70	-13.00	26.70
2509.80	V	60.41	-54.19	12.20	1.25	-43.24	-13.00	30.24
3346.40	H	61.10	-54.86	12.26	1.58	-44.18	-13.00	31.18
3346.40	V	58.62	-55.43	12.26	1.58	-44.75	-13.00	31.75
GPRS 850 Frequency:848.8MHz								
800.45	H	47.25	-51.27	0.00	0.36	-51.63	-13.00	38.63
800.88	V	46.60	-48.87	0.00	0.36	-49.23	-13.00	36.23
1697.60	H	77.84	-40.42	10.59	1.26	-31.09	-13.00	18.09
1697.60	V	76.41	-42.19	10.59	1.26	-32.86	-13.00	19.86
2546.40	H	63.14	-53.27	12.22	1.26	-42.31	-13.00	29.31
2546.40	V	58.41	-56.22	12.22	1.26	-45.26	-13.00	32.26
3395.20	H	61.54	-54.31	12.24	1.59	-43.66	-13.00	30.66
3395.20	V	57.41	-56.50	12.24	1.59	-45.85	-13.00	32.85

**PCS Band (30MHz-20GHz)**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 1900 Frequency:1850.2MHz								
801.02	H	47.55	-50.95	0.00	0.36	-51.31	-13.00	38.31
800.76	V	46.71	-48.77	0.00	0.36	-49.13	-13.00	36.13
3700.40	H	52.65	-62.04	12.24	1.55	-51.35	-13.00	38.35
3700.40	V	53.62	-59.03	12.24	1.55	-48.34	-13.00	35.34
5550.60	H	50.26	-62.92	12.87	1.26	-51.31	-13.00	38.31
5550.60	V	50.48	-60.54	12.87	1.26	-48.93	-13.00	35.93
GPRS 1900 Frequency:1880MHz								
800.16	H	47.76	-50.77	0.00	0.36	-51.13	-13.00	38.13
800.23	V	46.84	-48.65	0.00	0.36	-49.01	-13.00	36.01
3760.00	H	55.62	-58.80	12.25	1.53	-48.08	-13.00	35.08
3760.00	V	53.62	-58.74	12.25	1.53	-48.02	-13.00	35.02
5640.00	H	50.24	-62.65	13.00	1.28	-50.93	-13.00	37.93
5640.00	V	50.16	-60.62	13.00	1.28	-48.90	-13.00	35.90
GPRS 1900 Frequency:1909.8MHz								
800.85	H	47.97	-50.54	0.00	0.36	-50.90	-13.00	37.90
800.86	V	46.94	-48.53	0.00	0.36	-48.89	-13.00	35.89
3819.60	H	60.41	-53.73	12.26	1.51	-42.98	-13.00	29.98
3819.60	V	57.84	-54.24	12.26	1.51	-43.49	-13.00	30.49
5729.40	H	52.32	-60.29	13.12	1.31	-48.48	-13.00	35.48
5729.40	V	50.00	-60.54	13.12	1.31	-48.73	-13.00	35.73



**WCDMA Band 2(30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency: 1852.4 MHz								
800.65	H	47.58	-50.93	0.00	0.36	-51.29	-13.00	38.29
801.21	V	46.91	-48.55	0.00	0.36	-48.91	-13.00	35.91
3704.80	H	55.32	-59.35	12.24	1.54	-48.65	-13.00	35.65
3704.80	V	54.62	-58.01	12.24	1.54	-47.31	-13.00	34.31
5557.20	H	50.14	-63.02	12.88	1.26	-51.40	-13.00	38.40
5557.20	V	50.66	-60.35	12.88	1.26	-48.73	-13.00	35.73
WCDMA Band II, Frequency: 1880 MHz								
800.77	H	47.73	-50.78	0.00	0.36	-51.14	-13.00	38.14
800.80	V	47.07	-48.40	0.00	0.36	-48.76	-13.00	35.76
3760.00	H	53.62	-60.80	12.25	1.53	-50.08	-13.00	37.08
3760.00	V	52.49	-59.87	12.25	1.53	-49.15	-13.00	36.15
5640.00	H	50.19	-62.70	13.00	1.28	-50.98	-13.00	37.98
5640.00	V	50.24	-60.54	13.00	1.28	-48.82	-13.00	35.82
WCDMA Band II, Frequency: 1907.6MHz								
801.11	H	47.96	-50.54	0.00	0.36	-50.90	-13.00	37.90
800.90	V	47.23	-48.24	0.00	0.36	-48.60	-13.00	35.60
3815.20	H	56.84	-57.32	12.26	1.51	-46.57	-13.00	33.57
3815.20	V	56.74	-55.36	12.26	1.51	-44.61	-13.00	31.61
5722.80	H	50.44	-62.19	13.11	1.31	-50.39	-13.00	37.39
5722.80	V	50.95	-59.60	13.11	1.31	-47.80	-13.00	34.80

**WCDMA Band 5(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
800.21	H	46.55	-51.97	0.00	0.36	-52.33	-13.00	39.33
801.36	V	46.21	-49.25	0.00	0.36	-49.61	-13.00	36.61
1652.80	H	60.26	-58.35	10.46	1.28	-49.17	-13.00	36.17
1652.80	V	61.24	-57.53	10.46	1.28	-48.35	-13.00	35.35
2479.20	H	50.62	-65.74	12.17	1.24	-54.81	-13.00	41.81
2479.20	V	50.41	-64.30	12.17	1.24	-53.37	-13.00	40.37
3305.60	H	50.32	-65.73	12.28	1.57	-55.02	-13.00	42.02
3305.60	V	50.18	-63.99	12.28	1.57	-53.28	-13.00	40.28
WCDMA Band 5 Frequency:836.6MHz								
801.73	H	47.22	-51.26	0.00	0.36	-51.62	-13.00	38.62
800.63	V	46.51	-48.97	0.00	0.36	-49.33	-13.00	36.33
1673.20	H	57.84	-60.61	10.52	1.27	-51.36	-13.00	38.36
1673.20	V	62.32	-56.37	10.52	1.27	-47.12	-13.00	34.12
2509.80	H	51.20	-65.19	12.20	1.25	-54.24	-13.00	41.24
2509.80	V	50.41	-64.19	12.20	1.25	-53.24	-13.00	40.24
3346.40	H	50.65	-65.31	12.26	1.58	-54.63	-13.00	41.63
3346.40	V	50.47	-63.58	12.26	1.58	-52.90	-13.00	39.90
WCDMA Band 5 Frequency:846.6MHz								
800.44	H	47.46	-51.06	0.00	0.36	-51.42	-13.00	38.42
801.26	V	46.75	-48.71	0.00	0.36	-49.07	-13.00	36.07
1693.20	H	62.32	-55.97	10.58	1.26	-46.65	-13.00	33.65
1693.20	V	58.65	-59.96	10.58	1.26	-50.64	-13.00	37.64
2539.80	H	50.84	-65.57	12.22	1.26	-54.61	-13.00	41.61
2539.80	V	50.65	-63.98	12.22	1.26	-53.02	-13.00	40.02
3386.40	H	50.18	-65.69	12.25	1.59	-55.03	-13.00	42.03
3386.40	V	50.77	-63.17	12.25	1.59	-52.51	-13.00	39.51

**LTE Bands:**

(The Worst modulation and bandwidth was below)

**LTE Band 2(30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency:1850.7 MHz								
800.82	H	48.53	-49.98	0.00	0.36	-50.34	-13.00	37.34
800.93	V	48.33	-47.14	0.00	0.36	-47.50	-13.00	34.50
3701.40	H	55.62	-59.07	12.24	1.55	-48.38	-13.00	35.38
3701.40	V	54.16	-58.48	12.24	1.55	-47.79	-13.00	34.79
5552.10	H	50.49	-62.68	12.87	1.26	-51.07	-13.00	38.07
5552.10	V	50.56	-60.46	12.87	1.26	-48.85	-13.00	35.85
1RB, 1.4MHz, QPSK, Frequency:1880 MHz								
801.42	H	49.00	-49.49	0.00	0.36	-49.85	-13.00	36.85
800.37	V	48.52	-46.97	0.00	0.36	-47.33	-13.00	34.33
3760.00	H	50.65	-63.77	12.25	1.53	-53.05	-13.00	40.05
3760.00	V	50.48	-61.88	12.25	1.53	-51.16	-13.00	38.16
5640.00	H	50.32	-62.57	13.00	1.28	-50.85	-13.00	37.85
5640.00	V	50.49	-60.29	13.00	1.28	-48.57	-13.00	35.57
1RB, 1.4MHz, QPSK, Frequency:1909.3 MHz								
801.47	H	49.05	-49.44	0.00	0.36	-49.80	-13.00	36.80
800.30	V	48.61	-46.88	0.00	0.36	-47.24	-13.00	34.24
3818.60	H	54.62	-59.53	12.26	1.51	-48.78	-13.00	35.78
3818.60	V	55.26	-56.82	12.26	1.51	-46.07	-13.00	33.07
5727.90	H	51.32	-61.30	13.12	1.31	-49.49	-13.00	36.49
5727.90	V	51.48	-59.06	13.12	1.31	-47.25	-13.00	34.25

**LTE Band 4(30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency:1710.7 MHz								
801.25	H	50.36	-48.13	0.00	0.36	-48.49	-13.00	35.49
800.51	V	49.06	-46.42	0.00	0.36	-46.78	-13.00	33.78
3421.40	H	54.63	-61.16	12.23	1.59	-50.52	-13.00	37.52
3421.40	V	54.11	-59.73	12.23	1.59	-49.09	-13.00	36.09
5132.10	H	50.41	-61.88	12.95	1.39	-50.32	-13.00	37.32
5132.10	V	50.69	-58.95	12.95	1.39	-47.39	-13.00	34.39
1RB, 1.4MHz, QPSK, Frequency:1732.5 MHz								
800.40	H	50.87	-47.65	0.00	0.36	-48.01	-13.00	35.01
800.31	V	48.85	-46.64	0.00	0.36	-47.00	-13.00	34.00
3465.00	H	54.26	-61.44	12.21	1.60	-50.83	-13.00	37.83
3465.00	V	53.65	-60.06	12.21	1.60	-49.45	-13.00	36.45
5197.50	H	50.44	-62.03	12.92	1.36	-50.47	-13.00	37.47
5197.50	V	50.63	-59.28	12.92	1.36	-47.72	-13.00	34.72
1RB, 1.4MHz, QPSK, Frequency:1754.3MHz								
801.70	H	50.96	-47.52	0.00	0.36	-47.88	-13.00	34.88
800.05	V	49.11	-46.39	0.00	0.36	-46.75	-13.00	33.75
3508.60	H	58.62	-56.96	12.20	1.61	-46.37	-13.00	33.37
3508.60	V	54.29	-59.28	12.20	1.61	-48.69	-13.00	35.69
5262.90	H	51.32	-61.34	12.89	1.33	-49.78	-13.00	36.78
5262.90	V	51.06	-59.12	12.89	1.33	-47.56	-13.00	34.56

**LTE Band 5(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency: 824.7 MHz								
801.40	H	48.08	-50.41	0.00	0.36	-50.77	-13.00	37.77
800.15	V	47.65	-47.85	0.00	0.36	-48.21	-13.00	35.21
1649.40	H	65.25	-53.39	10.45	1.28	-44.22	-13.00	31.22
1649.40	V	66.59	-52.19	10.45	1.28	-43.02	-13.00	30.02
2474.10	H	53.26	-63.09	12.16	1.23	-52.16	-13.00	39.16
2474.10	V	52.62	-62.12	12.16	1.23	-51.19	-13.00	38.19
3298.80	H	50.41	-65.66	12.28	1.57	-54.95	-13.00	41.95
3298.80	V	50.98	-63.21	12.28	1.57	-52.50	-13.00	39.50
1RB, 1.4MHz, QPSK, Frequency: 836.5 MHz								
801.05	H	48.23	-50.27	0.00	0.36	-50.63	-13.00	37.63
800.27	V	47.84	-47.65	0.00	0.36	-48.01	-13.00	35.01
1673.00	H	65.14	-53.31	10.52	1.27	-44.06	-13.00	31.06
1673.00	V	69.85	-48.84	10.52	1.27	-39.59	-13.00	26.59
2509.50	H	52.32	-64.07	12.20	1.24	-53.11	-13.00	40.11
2509.50	V	53.41	-61.19	12.20	1.24	-50.23	-13.00	37.23
3346.00	H	50.62	-65.34	12.26	1.58	-54.66	-13.00	41.66
3346.00	V	50.98	-63.07	12.26	1.58	-52.39	-13.00	39.39
1RB, 1.4MHz, QPSK, Frequency: 848.3 MHz								
801.53	H	48.47	-50.02	0.00	0.36	-50.38	-13.00	37.38
800.68	V	48.14	-47.34	0.00	0.36	-47.70	-13.00	34.70
1696.60	H	63.52	-54.74	10.59	1.26	-45.41	-13.00	32.41
1696.60	V	64.59	-54.01	10.59	1.26	-44.68	-13.00	31.68
2544.90	H	50.98	-65.43	12.22	1.26	-54.47	-13.00	41.47
2544.90	V	50.62	-64.01	12.22	1.26	-53.05	-13.00	40.05
3393.20	H	50.41	-65.45	12.24	1.59	-54.80	-13.00	41.80
3393.20	V	50.32	-63.60	12.24	1.59	-52.95	-13.00	39.95

**LTE Band 7 (30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz, QPSK, Frequency: 2502.5 MHz								
801.64	H	49.18	-49.30	0.00	0.36	-49.66	-25.00	24.66
800.78	V	47.98	-47.49	0.00	0.36	-47.85	-25.00	22.85
5005.00	H	66.59	-45.33	13.00	1.44	-33.77	-25.00	8.77
5005.00	V	57.05	-52.07	13.00	1.44	-40.51	-25.00	15.51
7507.50	H	52.32	-56.29	12.80	1.33	-44.82	-25.00	19.82
7507.50	V	50.26	-58.91	12.80	1.33	-47.44	-25.00	22.44
1RB, 5MHz, QPSK, Frequency: 2535 MHz								
800.71	H	49.27	-49.24	0.00	0.36	-49.60	-25.00	24.60
800.41	V	48.50	-46.99	0.00	0.36	-47.35	-25.00	22.35
5070.00	H	73.05	-39.06	12.97	1.41	-27.50	-25.00	2.50
5070.00	V	67.24	-42.15	12.97	1.41	-30.59	-25.00	5.59
7605.00	H	59.21	-49.26	12.84	1.40	-37.82	-25.00	12.82
7605.00	V	54.62	-54.39	12.84	1.40	-42.95	-25.00	17.95
1RB, 5MHz, QPSK, Frequency: 2567.5 MHz								
800.92	H	49.52	-48.98	0.00	0.36	-49.34	-25.00	24.34
800.75	V	48.74	-46.74	0.00	0.36	-47.10	-25.00	22.10
5135.00	H	74.16	-38.14	12.95	1.39	-26.58	-25.00	1.58
5135.00	V	67.41	-42.25	12.95	1.39	-30.69	-25.00	5.69
7702.50	H	66.47	-41.85	12.88	1.47	-30.44	-25.00	5.44
7702.50	V	56.84	-52.00	12.88	1.47	-40.59	-25.00	15.59

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit - Absolute Level

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## **APPENDIX A - EUT PHOTOGRAPHS**

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Please refer to the attachment DG1240227-09527E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and DG1240227-09527E-RF-INP EUT INTERNAL PHOTOGRAPHS

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## **APPENDIX B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment DG1240227-09527E-RF-00F-TSP TEST SETUP PHOTOGRAPHS.

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