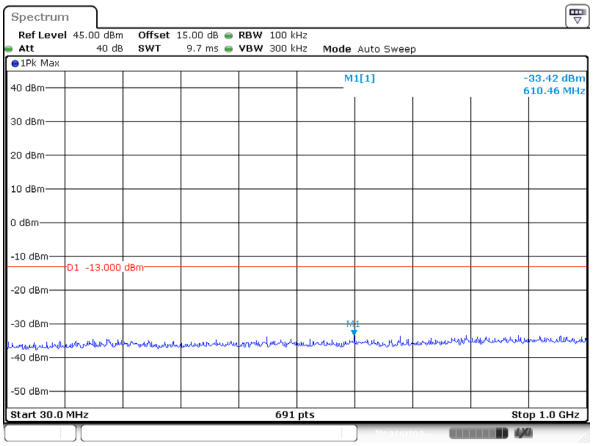
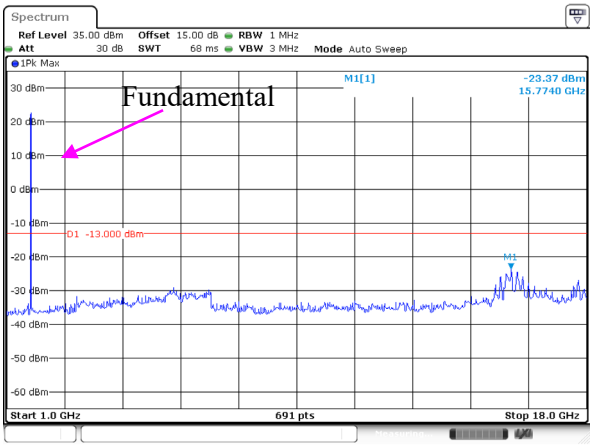
WCDMA Band IV:

30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel



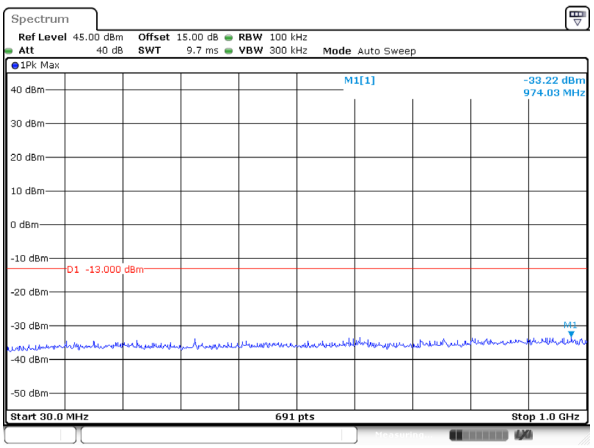
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:31:53

1 GHz – 18 GHz WCDMA (Rel 99) Mode, Low channel



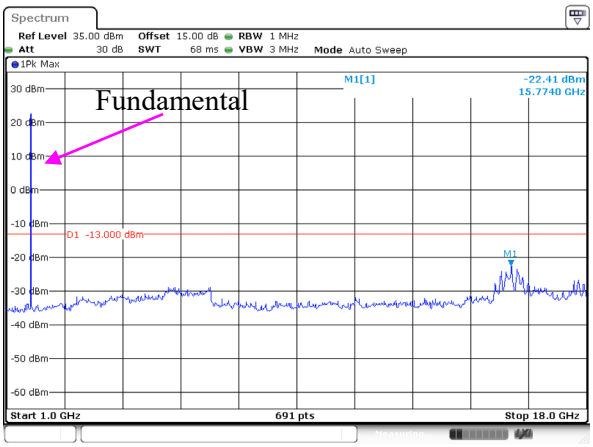
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:55:06

30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



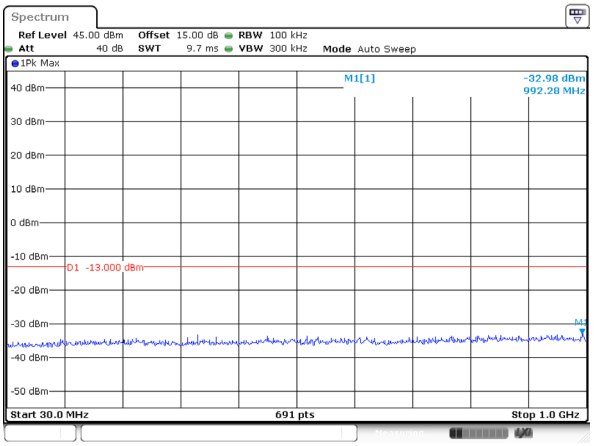
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:33:05

1 GHz – 18 GHz WCDMA (HSDPA) Mode, Low channel



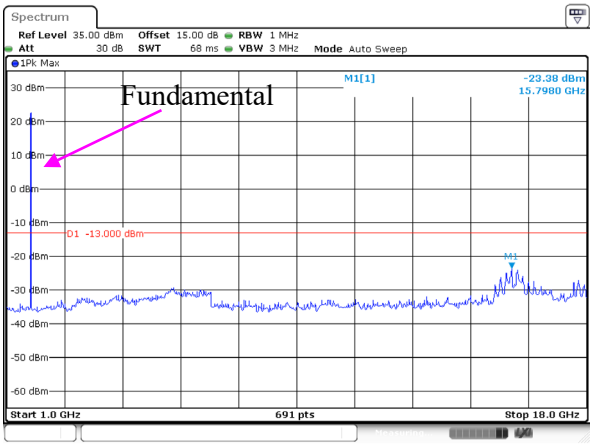
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:55:20

30 MHz – 1GHz WCDMA (HSUPA) Mode, Low channel



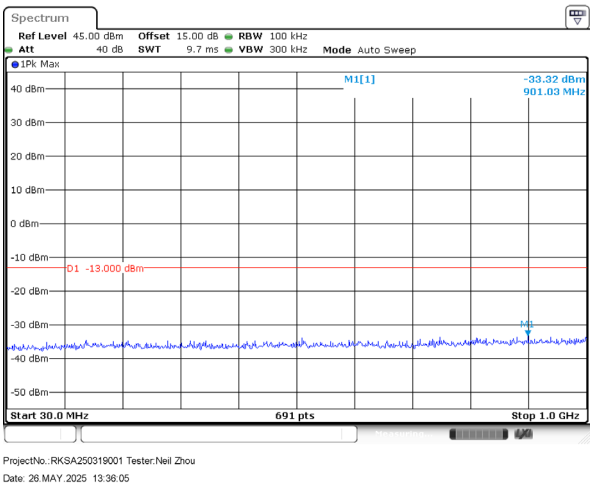
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:34:36

1 GHz – 18 GHz WCDMA (HSUPA) Mode, Low channel

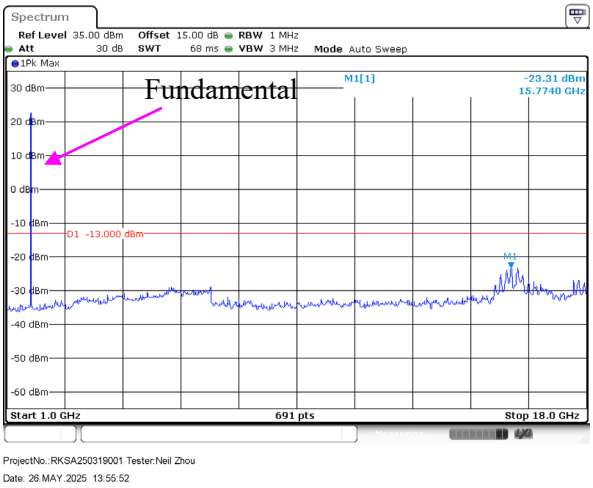


ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:55:39

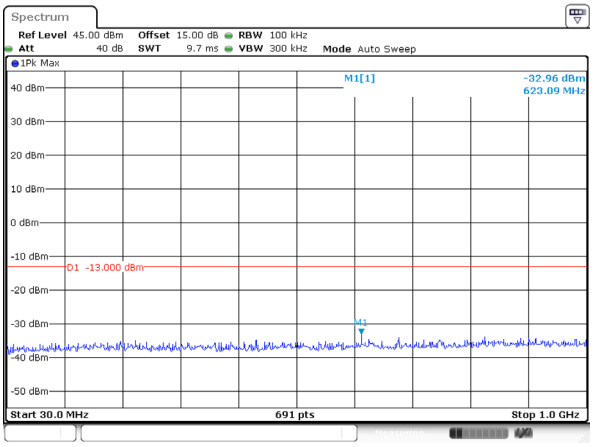
30 MHz – 1GHz WCDMA (HSPA+) Mode, Low channel



1 GHz – 18 GHz WCDMA (HSPA+) Mode, Low channel

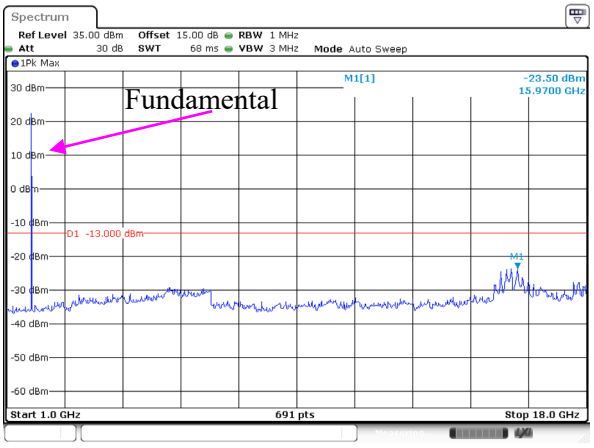


30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel



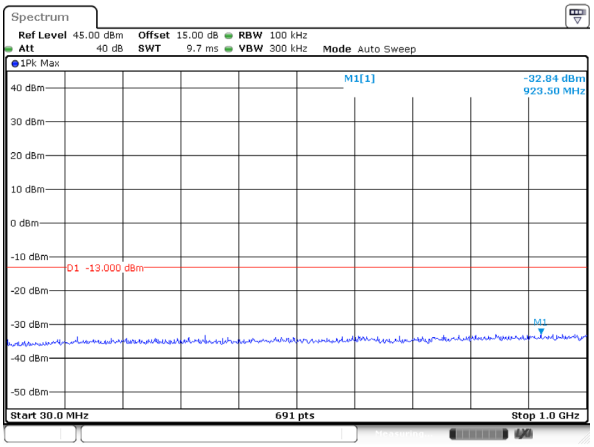
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:32:15

1 GHz – 18 GHz WCDMA (Rel 99) Mode, Middle channel



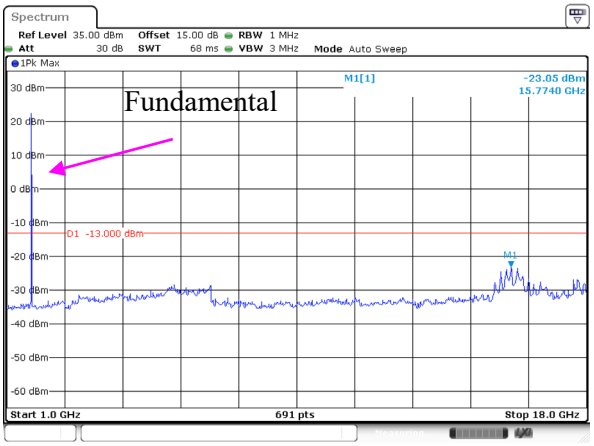
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:56:50

30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel



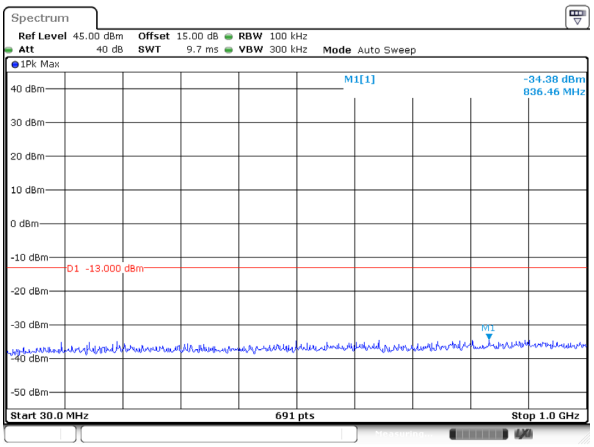
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 27.MAY.2025 11:51:29

1 GHz – 18 GHz WCDMA (HSDPA) Mode, Middle channel



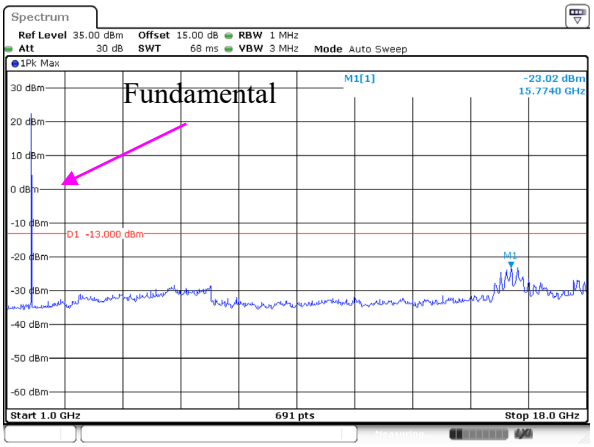
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:57:11

30 MHz – 1GHz WCDMA (HSUPA) Mode, Middle channel



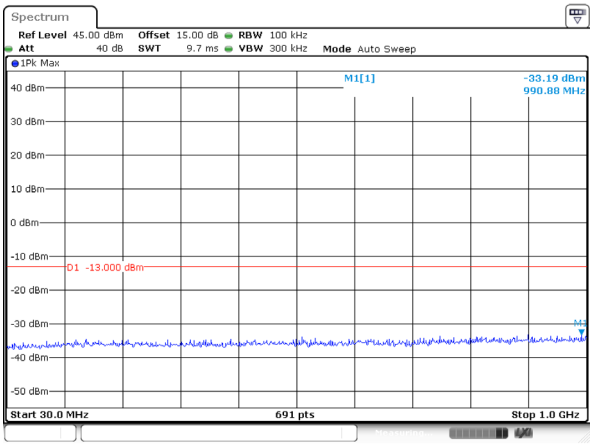
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:34:53

1 GHz – 18 GHz WCDMA (HSUPA) Mode, Middle channel

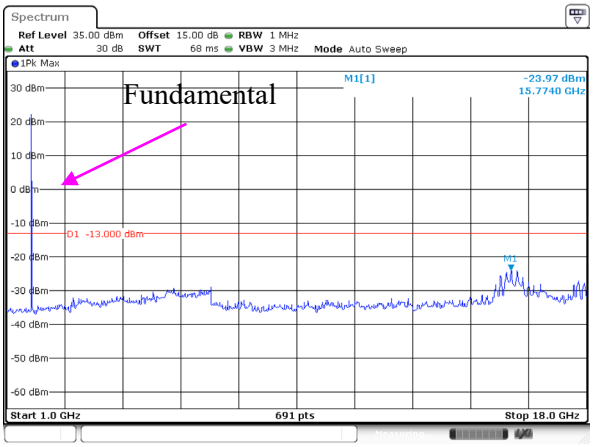


ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:57:24

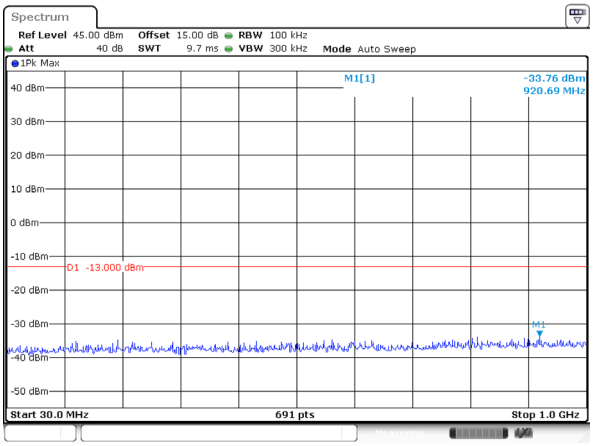
30 MHz – 1GHz WCDMA (HSPA+) Mode, Middle channel



1 GHz – 18 GHz WCDMA (HSPA+) Mode, Middle channel

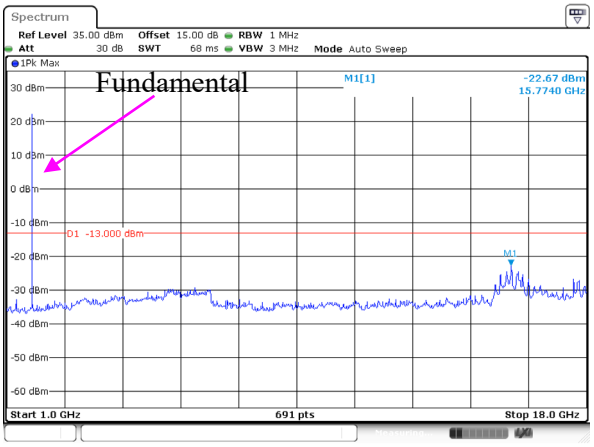


30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel



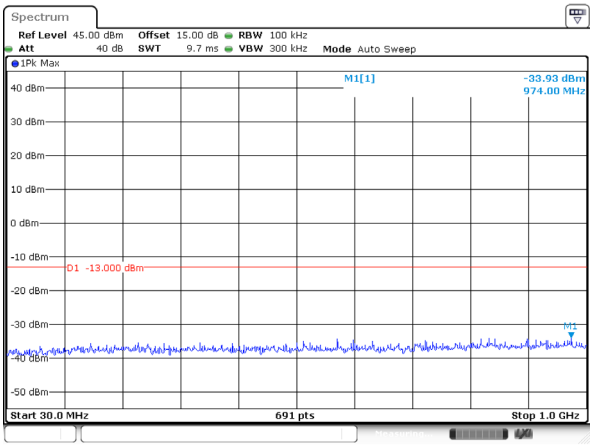
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:31:35

1 GHz – 18 GHz WCDMA (Rel 99) Mode, High channel



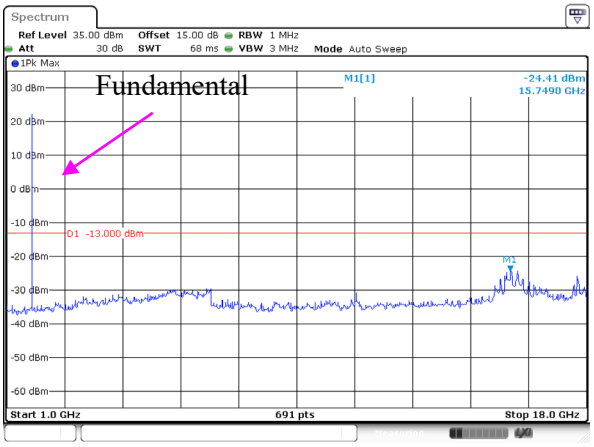
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:58:01

30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel



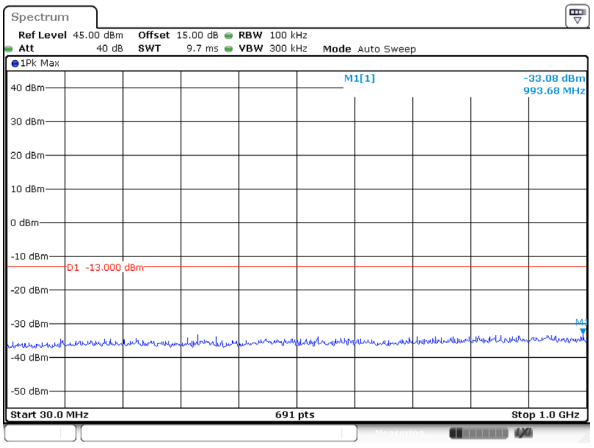
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 27.MAY.2025 11:46:12

1 GHz – 18 GHz WCDMA (HSDPA) Mode, High channel



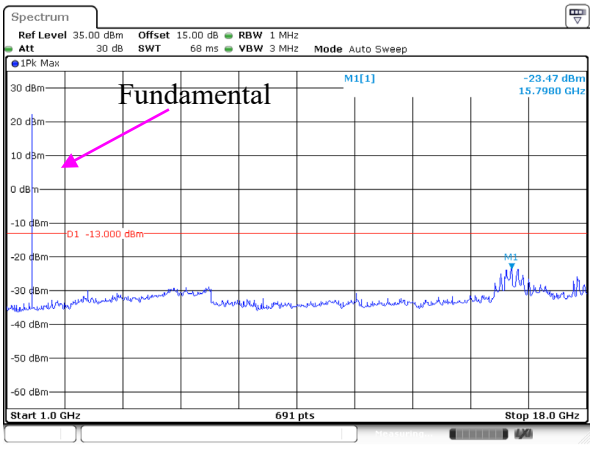
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:58:31

30 MHz – 1GHz WCDMA (HSUPA) Mode, High channel



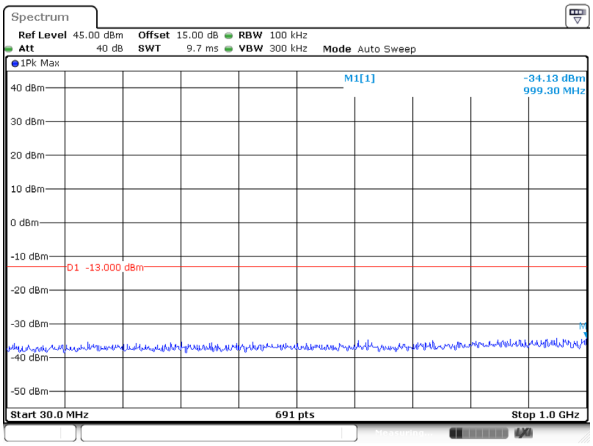
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:34:06

1 GHz – 18 GHz WCDMA (HSUPA) Mode, High channel



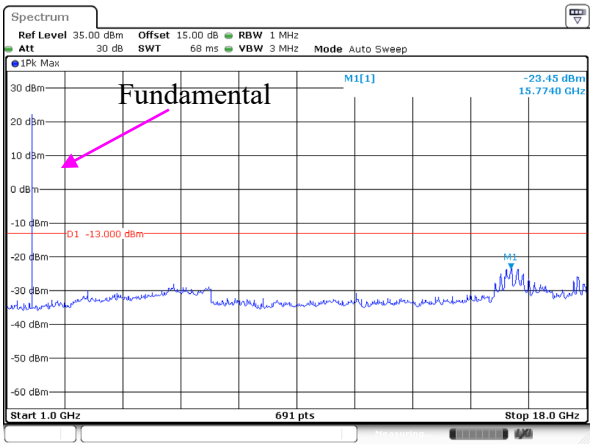
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:58:47

30 MHz – 1GHz WCDMA (HSPA+) Mode, High channel



ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:35:52

1 GHz – 18 GHz WCDMA (HSPA+) Mode, High channel



ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:59:04

SPURIOUS RADIATED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2025-05-26 to 2025-05-27
Temperature:	24.2-24.5 ℃
Relative Humidity:	50-53 %
ATM Pressure:	102.7-103.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test mode: Transmitting (Pre-scan with all the bandwidth, and worst case as below)

30 MHz - 10 GHz:

GPRS 850 Band

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
GPRS Mode, Low channel								
768.60	51.21	H	-51.42	0.62	-1.41	-53.45	-13	40.45
768.60	56.14	V	-52.23	0.62	-1.41	-54.26	-13	41.26
1648.40	64.19	H	-49.16	0.84	8.44	-41.56	-13	28.56
1648.40	63.10	V	-50.25	0.84	8.44	-42.65	-13	29.65
GPRS Mode, Middle channel								
768.60	51.68	H	-50.95	0.62	-1.41	-52.98	-13	39.98
768.60	56.66	V	-51.71	0.62	-1.41	-53.74	-13	40.74
1673.20	63.79	H	-49.38	0.84	8.48	-41.74	-13	28.74
1673.20	62.43	V	-50.74	0.84	8.48	-43.10	-13	30.10
GPRS Mode, High channel								
768.60	51.88	H	-50.75	0.62	-1.41	-52.78	-13	39.78
768.60	56.45	V	-51.92	0.62	-1.41	-53.95	-13	40.95
1697.60	62.34	H	-50.66	0.84	8.52	-42.98	-13	29.98
1697.60	62.08	V	-50.92	0.84	8.52	-43.24	-13	30.24

WCDMA Band V

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
Low channel								
226.60	54.03	H	-49.36	0.43	-3.05	-52.84	-13	39.84
226.60	57.06	V	-50.48	0.43	-3.05	-53.96	-13	40.96
1652.80	62.39	H	-50.92	0.84	8.44	-43.32	-13	30.32
1652.80	61.19	V	-52.12	0.84	8.44	-44.52	-13	31.52
Middle channel								
226.60	54.42	H	-48.97	0.43	-3.05	-52.45	-13	39.45
226.60	57.39	V	-50.15	0.43	-3.05	-53.63	-13	40.63
1673.20	62.41	H	-50.76	0.84	8.48	-43.12	-13	30.12
1673.20	61.01	V	-52.16	0.84	8.48	-44.52	-13	31.52
High channel								
226.60	54.54	H	-48.85	0.43	-3.05	-52.33	-13	39.33
226.60	57.48	V	-50.06	0.43	-3.05	-53.54	-13	40.54
1693.20	62.41	H	-50.62	0.84	8.51	-42.95	-13	29.95
1693.20	61.73	V	-51.30	0.84	8.51	-43.63	-13	30.63

30 MHz ~ 20 GHz:

PCS 1900 Band

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
Low channel								
265.40	46.43	H	-56.78	0.45	-2.22	-59.45	-13	46.45
265.40	50.88	V	-57.69	0.45	-2.22	-60.36	-13	47.36
3700.40	54.93	H	-52.04	0.95	9.78	-43.21	-13	30.21
3700.40	53.62	V	-53.35	0.95	9.78	-44.52	-13	31.52
Middle channel								
265.40	47.04	H	-56.17	0.45	-2.22	-58.84	-13	45.84
265.40	50.79	V	-57.78	0.45	-2.22	-60.45	-13	47.45
3760.00	54.84	H	-51.94	0.95	9.74	-43.15	-13	30.15
3760.00	53.30	V	-53.48	0.95	9.74	-44.69	-13	31.69
High channel								
265.40	47.14	H	-56.07	0.45	-2.22	-58.74	-13	45.74
265.40	50.57	V	-58.00	0.45	-2.22	-60.67	-13	47.67
3819.60	54.51	H	-52.08	0.96	9.71	-43.33	-13	30.33
3819.60	53.27	V	-53.32	0.96	9.71	-44.57	-13	31.57

WCDMA Band II

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
Low channel								
254.50	45.08	H	-56.86	0.44	-2.24	-59.54	-13	46.54
254.50	51.34	V	-58.03	0.44	-2.24	-60.71	-13	47.71
3704.80	54.64	H	-52.31	0.95	9.78	-43.48	-13	30.48
3704.80	53.27	V	-53.68	0.95	9.78	-44.85	-13	31.85
Middle channel								
254.50	45.21	H	-56.73	0.44	-2.24	-59.41	-13	46.41
254.50	51.53	V	-57.84	0.44	-2.24	-60.52	-13	47.52
3760.00	56.47	H	-50.31	0.95	9.74	-41.52	-13	28.52
3760.00	54.43	V	-52.35	0.95	9.74	-43.56	-13	30.56
High channel								
254.50	45.27	H	-56.67	0.44	-2.24	-59.35	-13	46.35
254.50	51.30	V	-58.07	0.44	-2.24	-60.75	-13	47.75
3815.20	56.40	H	-50.20	0.96	9.71	-41.45	-13	28.45
3815.20	54.44	V	-52.16	0.96	9.71	-43.41	-13	30.41

WCDMA Band IV

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
Low channel								
223.50	46.87	H	-56.78	0.43	-3.15	-60.36	-13	47.36
223.50	49.41	V	-57.84	0.43	-3.15	-61.42	-13	48.42
3424.80	54.77	H	-53.15	0.93	9.83	-44.25	-13	31.25
3424.80	53.28	V	-54.64	0.93	9.83	-45.74	-13	32.74
Middle channel								
223.50	46.61	H	-57.04	0.43	-3.15	-60.62	-13	47.62
223.50	48.98	V	-58.27	0.43	-3.15	-61.85	-13	48.85
3465.20	57.56	H	-50.19	0.93	9.87	-41.25	-13	28.25
3465.20	55.69	V	-52.06	0.93	9.87	-43.12	-13	30.12
High channel								
223.50	47.27	H	-56.38	0.43	-3.15	-59.96	-13	46.96
223.50	49.57	V	-57.68	0.43	-3.15	-61.26	-13	48.26
3505.20	57.27	H	-50.31	0.93	9.90	-41.34	-13	28.34
3505.20	55.26	V	-52.32	0.93	9.90	-43.35	-13	30.35

Test mode: Transmitting (Pre-scan with 1RB of all the bandwidth, and worst case as below)

30 MHz ~ 10 GHz:

LTE Band 5:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
235.60	50.48	H	-52.15	0.43	-2.74	-55.32	-13	42.32
235.60	55.13	V	-53.24	0.43	-2.74	-56.41	-13	43.41
1649.40	59.16	H	-54.18	0.84	8.44	-46.58	-13	33.58
1649.40	58.62	V	-54.72	0.84	8.44	-47.12	-13	34.12
16-QAM 1.4MHz Bandwidth Low Channel								
235.60	49.32	H	-53.31	0.43	-2.74	-56.48	-13	43.48
235.60	54.38	V	-53.99	0.43	-2.74	-57.16	-13	44.16
1649.40	60.64	H	-52.70	0.84	8.44	-45.10	-13	32.10
1649.40	59.40	V	-53.94	0.84	8.44	-46.34	-13	33.34
QPSK 1.4MHz Bandwidth Middle Channel								
235.60	49.26	H	-53.37	0.43	-2.74	-56.54	-13	43.54
235.60	54.30	V	-54.07	0.43	-2.74	-57.24	-13	44.24
1673.00	61.32	H	-51.85	0.84	8.48	-44.21	-13	31.21
1673.00	59.57	V	-53.60	0.84	8.48	-45.96	-13	32.96
16-QAM 1.4MHz Bandwidth Middle Channel								
274.30	50.39	H	-52.24	0.43	-2.74	-55.41	-13	42.41
274.30	54.51	V	-53.86	0.43	-2.74	-57.03	-13	44.03
1673.00	62.21	H	-50.96	0.84	8.48	-43.32	-13	30.32
1673.00	60.18	V	-52.99	0.84	8.48	-45.35	-13	32.35
QPSK 1.4MHz Bandwidth High Channel								
274.30	48.39	H	-54.24	0.43	-2.74	-57.41	-13	44.41
274.30	52.19	V	-56.18	0.43	-2.74	-59.35	-13	46.35
1696.60	62.08	H	-50.93	0.84	8.52	-43.25	-13	30.25
1696.60	61.23	V	-51.78	0.84	8.52	-44.10	-13	31.10
16-QAM 1.4MHz Bandwidth High Channel								
274.30	48.55	H	-54.08	0.43	-2.74	-57.25	-13	44.25
274.30	52.30	V	-56.07	0.43	-2.74	-59.24	-13	46.24
1696.60	61.91	H	-51.10	0.84	8.52	-43.42	-13	30.42
1696.60	59.70	V	-53.31	0.84	8.52	-45.63	-13	32.63

LTE Band 12:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
248.20	45.84	H	-55.73	0.44	-2.31	-58.48	-13	45.48
248.20	52.74	V	-56.79	0.44	-2.31	-59.54	-13	46.54
1399.40	66.82	H	-47.35	0.82	7.92	-40.25	-13	27.25
1399.40	63.59	V	-50.58	0.82	7.92	-43.48	-13	30.48
16-QAM 1.4MHz Bandwidth Low Channel								
248.20	46.08	H	-55.49	0.44	-2.31	-58.24	-13	45.24
248.20	52.85	V	-56.68	0.44	-2.31	-59.43	-13	46.43
1399.40	65.51	H	-48.66	0.82	7.92	-41.56	-13	28.56
1399.40	64.12	V	-50.05	0.82	7.92	-42.95	-13	29.95
QPSK 1.4MHz Bandwidth Middle Channel								
248.20	45.77	H	-55.80	0.44	-2.31	-58.55	-13	45.55
248.20	52.64	V	-56.89	0.44	-2.31	-59.64	-13	46.64
1415.00	65.35	H	-48.85	0.82	7.96	-41.71	-13	28.71
1415.00	64.23	V	-49.97	0.82	7.96	-42.83	-13	29.83
16-QAM 1.4MHz Bandwidth Middle Channel								
248.20	45.86	H	-55.71	0.44	-2.31	-58.46	-13	45.46
248.20	52.76	V	-56.77	0.44	-2.31	-59.52	-13	46.52
1415.00	65.53	H	-48.67	0.82	7.96	-41.53	-13	28.53
1415.00	63.43	V	-50.77	0.82	7.96	-43.63	-13	30.63
QPSK 1.4MHz Bandwidth High Channel								
248.20	45.19	H	-56.38	0.44	-2.31	-59.13	-13	46.13
248.20	52.31	V	-57.22	0.44	-2.31	-59.97	-13	46.97
1430.60	65.68	H	-48.55	0.82	8.01	-41.36	-13	28.36
1430.60	63.52	V	-50.71	0.82	8.01	-43.52	-13	30.52
16-QAM 1.4MHz Bandwidth High Channel								
248.20	45.76	H	-55.81	0.44	-2.31	-58.56	-13	45.56
248.20	51.87	V	-57.66	0.44	-2.31	-60.41	-13	47.41
1430.60	65.81	H	-48.42	0.82	8.01	-41.23	-13	28.23
1430.60	64.20	V	-50.03	0.82	8.01	-42.84	-13	29.84

LTE Band 17:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
253.60	44.16	H	-57.68	0.44	-2.24	-60.36	-13	47.36
253.60	50.60	V	-58.84	0.44	-2.24	-61.52	-13	48.52
1413.00	64.81	H	-49.39	0.82	7.96	-42.25	-13	29.25
1413.00	63.55	V	-50.65	0.82	7.96	-43.51	-13	30.51
16-QAM 5MHz Bandwidth Low Channel								
253.60	44.54	H	-57.30	0.44	-2.24	-59.98	-13	46.98
253.60	51.17	V	-58.27	0.44	-2.24	-60.95	-13	47.95
1413.00	65.34	H	-48.86	0.82	7.96	-41.72	-13	28.72
1413.00	64.38	V	-49.82	0.82	7.96	-42.68	-13	29.68
QPSK 5MHz Bandwidth Middle Channel								
253.60	43.94	H	-57.90	0.44	-2.24	-60.58	-13	47.58
253.60	50.79	V	-58.65	0.44	-2.24	-61.33	-13	48.33
1420.00	65.47	H	-48.74	0.82	7.98	-41.58	-13	28.58
1420.00	64.64	V	-49.57	0.82	7.98	-42.41	-13	29.41
16-QAM 5MHz Bandwidth Middle Channel								
253.60	43.78	H	-58.06	0.44	-2.24	-60.74	-13	47.74
253.60	50.54	V	-58.90	0.44	-2.24	-61.58	-13	48.58
1420.00	64.36	H	-49.85	0.82	7.98	-42.69	-13	29.69
1420.00	63.69	V	-50.52	0.82	7.98	-43.36	-13	30.36
QPSK 5MHz Bandwidth High Channel								
253.60	44.11	H	-57.73	0.44	-2.24	-60.41	-13	47.41
253.60	49.28	V	-60.16	0.44	-2.24	-62.84	-13	49.84
1427.00	63.35	H	-50.87	0.82	8.00	-43.69	-13	30.69
1427.00	62.30	V	-51.92	0.82	8.00	-44.74	-13	31.74
16-QAM 5MHz Bandwidth High Channel								
253.60	44.19	H	-57.65	0.44	-2.24	-60.33	-13	47.33
253.60	50.28	V	-59.16	0.44	-2.24	-61.84	-13	48.84
1427.00	63.50	H	-50.72	0.82	8.00	-43.54	-13	30.54
1427.00	62.57	V	-51.65	0.82	8.00	-44.47	-13	31.47

LTE Band 26 Lower

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
197.50	48.53	H	-57.06	0.42	-4.06	-61.54	-13	48.54
197.50	47.01	V	-57.85	0.42	-4.06	-62.33	-13	49.33
1629.40	63.88	H	-49.60	0.84	8.41	-42.03	-13	29.03
1629.40	62.22	V	-51.26	0.84	8.41	-43.69	-13	30.69
16-QAM 1.4MHz Bandwidth Low Channel								
197.50	48.65	H	-56.94	0.42	-4.06	-61.42	-13	48.42
197.50	46.86	V	-58.00	0.42	-4.06	-62.48	-13	49.48
1629.40	63.77	H	-49.71	0.84	8.41	-42.14	-13	29.14
1629.40	62.39	V	-51.09	0.84	8.41	-43.52	-13	30.52
QPSK 1.4MHz Bandwidth High Channel								
197.50	49.11	H	-56.48	0.42	-4.06	-60.96	-13	47.96
197.50	46.86	V	-58.00	0.42	-4.06	-62.48	-13	49.48
1646.6	63.29	H	-49.95	0.84	8.44	-42.35	-13	29.35
1646.6	61.96	V	-51.28	0.84	8.44	-43.68	-13	30.68
16-QAM 1.4MHz Bandwidth High Channel								
197.50	49.33	H	-56.26	0.42	-4.06	-60.74	-13	47.74
197.50	46.99	V	-57.87	0.42	-4.06	-62.35	-13	49.35
1646.6	63.23	H	-50.01	0.84	8.44	-42.41	-13	29.41
1646.6	61.86	V	-51.38	0.84	8.44	-43.78	-13	30.78
QPSK 1.4MHz Bandwidth Cross Channel								
197.50	49.11	H	-56.48	0.42	-4.06	-60.96	-13	47.96
197.50	46.60	V	-58.26	0.42	-4.06	-62.74	-13	49.74
1648	60.89	H	-52.12	0.84	8.44	-44.52	-13	31.52
1648	59.57	V	-53.44	0.84	8.44	-45.84	-13	32.84
16-QAM 1.4MHz Bandwidth Cross Channel								
197.50	49.21	H	-56.38	0.42	-4.06	-60.86	-13	47.86
197.50	47.00	V	-57.86	0.42	-4.06	-62.34	-13	49.34
1648	60.99	H	-52.02	0.84	8.44	-44.42	-13	31.42
1648	59.66	V	-53.35	0.84	8.44	-45.75	-13	32.75

LTE Band 26 Upper

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
197.50	49.29	H	-56.30	0.42	-4.06	-60.78	-13	47.78
197.50	47.82	V	-57.04	0.42	-4.06	-61.52	-13	48.52
1649.40	63.32	H	-50.02	0.84	8.44	-42.42	-13	29.42
1649.40	62.07	V	-51.27	0.84	8.44	-43.67	-13	30.67
16-QAM 1.4MHz Bandwidth Low Channel								
197.50	49.39	H	-56.20	0.42	-4.06	-60.68	-13	47.68
197.50	47.60	V	-57.26	0.42	-4.06	-61.74	-13	48.74
1649.40	63.62	H	-49.72	0.84	8.41	-42.15	-13	29.15
1649.40	62.26	V	-51.08	0.84	8.41	-43.51	-13	30.51
QPSK 1.4MHz Bandwidth Middle Channel								
197.50	49.32	H	-56.27	0.42	-4.06	-60.75	-13	47.75
197.50	47.66	V	-57.20	0.42	-4.06	-61.68	-13	48.68
1673.00	64.20	H	-48.97	0.84	8.46	-41.35	-13	28.35
1673.00	62.03	V	-51.14	0.84	8.46	-43.52	-13	30.52
16-QAM 1.4MHz Bandwidth Middle Channel								
197.50	49.55	H	-56.04	0.42	-4.06	-60.52	-13	47.52
197.50	47.69	V	-57.17	0.42	-4.06	-61.65	-13	48.65
1673.00	64.28	H	-48.89	0.84	8.46	-41.27	-13	28.27
1673.00	62.68	V	-50.49	0.84	8.46	-42.87	-13	29.87
QPSK 1.4MHz Bandwidth High Channel								
197.50	49.87	H	-55.72	0.42	-4.06	-60.20	-13	47.20
197.50	47.77	V	-57.09	0.42	-4.06	-61.57	-13	48.57
1696.60	62.80	H	-50.21	0.84	8.51	-42.54	-13	29.54
1696.60	61.86	V	-51.15	0.84	8.51	-43.48	-13	30.48
16-QAM 1.4MHz Bandwidth High Channel								
197.50	48.72	H	-56.87	0.42	-4.06	-61.35	-13	48.35
197.50	46.71	V	-58.15	0.42	-4.06	-62.63	-13	49.63
1696.60	61.96	H	-51.05	0.84	8.51	-43.38	-13	30.38
1696.60	60.56	V	-52.45	0.84	8.51	-44.78	-13	31.78

30 MHz ~ 20 GHz:

LTE Band 2:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
185.20	49.85	H	-55.52	0.41	-4.60	-60.53	-13	47.53
185.20	47.30	V	-56.47	0.41	-4.60	-61.48	-13	48.48
3701.40	55.61	H	-51.35	0.95	9.78	-42.52	-13	29.52
3701.40	53.44	V	-53.52	0.95	9.78	-44.69	-13	31.69
16-QAM 1.4MHz Bandwidth Low Channel								
185.20	49.93	H	-55.44	0.41	-4.60	-60.45	-13	47.45
185.20	47.42	V	-56.35	0.41	-4.60	-61.36	-13	48.36
3701.40	55.45	H	-51.51	0.95	9.78	-42.68	-13	29.68
3701.40	53.27	V	-53.69	0.95	9.78	-44.86	-13	31.86
QPSK 1.4MHz Bandwidth Middle Channel								
185.20	50.03	H	-55.34	0.41	-4.60	-60.35	-13	47.35
185.20	47.30	V	-56.47	0.41	-4.60	-61.48	-13	48.48
3760.00	55.84	H	-50.94	0.95	9.74	-42.15	-13	29.15
3760.00	54.25	V	-52.53	0.95	9.74	-43.74	-13	30.74
16-QAM 1.4MHz Bandwidth Middle Channel								
185.20	50.40	H	-54.97	0.41	-4.60	-59.98	-13	46.98
185.20	47.53	V	-56.24	0.41	-4.60	-61.25	-13	48.25
3760.00	55.43	H	-51.35	0.95	9.74	-42.56	-13	29.56
3760.00	54.14	V	-52.64	0.95	9.74	-43.85	-13	30.85
QPSK 1.4MHz Bandwidth High Channel								
185.20	50.15	H	-55.22	0.41	-4.60	-60.23	-13	47.23
185.20	47.31	V	-56.46	0.41	-4.60	-61.47	-13	48.47
1909.30	61.22	H	-50.32	0.85	8.85	-42.32	-13	29.32
1909.30	59.80	V	-51.74	0.85	8.85	-43.74	-13	30.74
16-QAM 1.4MHz Bandwidth High Channel								
185.20	50.02	H	-55.35	0.41	-4.60	-60.36	-13	47.36
185.20	47.20	V	-56.57	0.41	-4.60	-61.58	-13	48.58
1909.30	60.96	H	-50.58	0.85	8.85	-42.58	-13	29.58
1909.30	59.85	V	-51.69	0.85	8.85	-43.69	-13	30.69

LTE Band 4:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
253.80	43.70	H	-58.16	0.44	-2.24	-60.84	-13	47.84
253.80	50.58	V	-58.84	0.44	-2.24	-61.52	-13	48.52
3421.40	55.47	H	-52.47	0.93	9.82	-43.58	-13	30.58
3421.40	54.93	V	-53.01	0.93	9.82	-44.12	-13	31.12
16-QAM 1.4MHz Bandwidth Low Channel								
253.80	44.19	H	-57.67	0.44	-2.24	-60.35	-13	47.35
253.80	50.41	V	-59.01	0.44	-2.24	-61.69	-13	48.69
3421.40	55.93	H	-52.01	0.93	9.82	-43.12	-13	30.12
3421.40	54.47	V	-53.47	0.93	9.82	-44.58	-13	31.58
QPSK 1.4MHz Bandwidth Middle Channel								
253.80	44.56	H	-57.30	0.44	-2.24	-59.98	-13	46.98
253.80	54.30	V	-55.12	0.37	-6.05	-61.54	-13	48.54
3465.00	55.49	H	-52.26	0.93	9.87	-43.32	-13	30.32
3465.00	54.67	V	-53.08	0.93	9.87	-44.14	-13	31.14
16-QAM 1.4MHz Bandwidth Middle Channel								
253.80	44.22	H	-57.64	0.44	-2.24	-60.32	-13	47.32
253.80	50.86	V	-58.56	0.44	-2.24	-61.24	-13	48.24
3465.00	55.18	H	-52.57	0.93	9.87	-43.63	-13	30.63
3465.00	54.45	V	-53.30	0.93	9.87	-44.36	-13	31.36
QPSK 1.4MHz Bandwidth High Channel								
253.80	44.11	H	-57.75	0.44	-2.24	-60.43	-13	47.43
253.80	50.74	V	-58.68	0.44	-2.24	-61.36	-13	48.36
3508.60	55.09	H	-52.48	0.93	9.89	-43.52	-13	30.52
3508.60	53.77	V	-53.80	0.93	9.89	-44.84	-13	31.84
16-QAM 1.4MHz Bandwidth High Channel								
253.80	44.39	H	-57.47	0.44	-2.24	-60.15	-13	47.15
253.80	49.85	V	-59.57	0.44	-2.24	-62.25	-13	49.25
3508.60	55.46	H	-52.11	0.93	9.89	-43.15	-13	30.15
3508.60	53.96	V	-53.61	0.93	9.89	-44.65	-13	31.65

LTE Band 25:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
241.80	44.55	H	-57.56	0.44	-2.53	-60.53	-13	47.53
241.80	49.23	V	-59.71	0.44	-2.53	-62.68	-13	49.68
3701.40	52.92	H	-54.04	0.95	9.78	-45.21	-13	32.21
3701.40	50.50	V	-56.46	0.95	9.78	-47.63	-13	34.63
16-QAM 1.4MHz Bandwidth Low Channel								
241.80	43.83	H	-58.28	0.44	-2.53	-61.25	-13	48.25
241.80	49.40	V	-59.54	0.44	-2.53	-62.51	-13	49.51
3701.40	52.50	H	-54.46	0.95	9.78	-45.63	-13	32.63
3701.40	50.39	V	-56.57	0.95	9.78	-47.74	-13	34.74
QPSK 1.4MHz Bandwidth Middle Channel								
241.80	43.76	H	-58.35	0.44	-2.53	-61.32	-13	48.32
241.80	49.43	V	-59.51	0.44	-2.53	-62.48	-13	49.48
3765.00	52.69	H	-54.09	0.95	9.74	-45.30	-13	32.30
3765.00	50.47	V	-56.31	0.95	9.74	-47.52	-13	34.52
16-QAM 1.4MHz Bandwidth Middle Channel								
241.80	43.50	H	-58.61	0.44	-2.53	-61.58	-13	48.58
241.80	48.77	V	-60.17	0.44	-2.53	-63.14	-13	50.14
3765.00	52.30	H	-54.48	0.95	9.74	-45.69	-13	32.69
3765.00	50.25	V	-56.53	0.95	9.74	-47.74	-13	34.74
QPSK 1.4MHz Bandwidth High Channel								
241.80	43.69	H	-58.42	0.44	-2.53	-61.39	-13	48.39
241.80	48.44	V	-60.50	0.44	-2.53	-63.47	-13	50.47
3828.60	52.04	H	-54.52	0.96	9.70	-45.78	-13	32.78
3828.60	50.28	V	-56.28	0.96	9.70	-47.54	-13	34.54
16-QAM 1.4MHz Bandwidth High Channel								
241.80	43.73	H	-58.38	0.44	-2.53	-61.35	-13	48.35
241.80	48.76	V	-60.18	0.44	-2.53	-63.15	-13	50.15
3828.60	52.25	H	-54.31	0.96	9.70	-45.57	-13	32.57
3828.60	50.09	V	-56.47	0.96	9.70	-47.73	-13	34.73

LTE Band 66:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel								
135.20	48.49	H	-57.10	0.36	-6.12	-63.58	-13	50.58
135.20	41.71	V	-58.27	0.36	-6.12	-64.75	-13	51.75
3421.40	53.98	H	-53.87	0.92	9.95	-44.84	-13	31.84
3421.40	52.10	V	-55.75	0.92	9.95	-46.72	-13	33.72
16-QAM 1.4MHz Bandwidth Low Channel								
135.20	48.75	H	-56.84	0.36	-6.12	-63.32	-13	50.32
135.20	41.87	V	-58.11	0.36	-6.12	-64.59	-13	51.59
3421.40	54.50	H	-53.35	0.92	9.95	-44.32	-13	31.32
3421.40	52.26	V	-55.59	0.92	9.95	-46.56	-13	33.56
QPSK 1.4MHz Bandwidth Middle Channel								
135.20	48.33	H	-57.26	0.36	-6.12	-63.74	-13	50.74
135.20	41.61	V	-58.37	0.36	-6.12	-64.85	-13	51.85
3490.00	54.29	H	-53.34	0.93	9.91	-44.36	-13	31.36
3490.00	52.23	V	-55.40	0.93	9.91	-46.42	-13	33.42
16-QAM 1.4MHz Bandwidth Middle Channel								
135.20	48.84	H	-56.75	0.36	-6.12	-63.23	-13	50.23
135.20	41.90	V	-58.08	0.36	-6.12	-64.56	-13	51.56
3490.00	54.56	H	-53.07	0.95	9.74	-44.28	-13	31.28
3490.00	52.56	V	-55.07	0.95	9.74	-46.28	-13	33.28
QPSK 1.4MHz Bandwidth High Channel								
135.20	48.72	H	-56.87	0.36	-6.12	-63.35	-13	50.35
135.20	41.71	V	-58.27	0.36	-6.12	-64.75	-13	51.75
3558.60	54.10	H	-53.32	0.93	9.87	-44.38	-13	31.38
3558.60	52.45	V	-54.97	0.93	9.87	-46.03	-13	33.03
16-QAM 1.4MHz Bandwidth High Channel								
135.20	48.60	H	-56.99	0.36	-6.12	-63.47	-13	50.47
135.20	41.92	V	-58.06	0.36	-6.12	-64.54	-13	51.54
3558.60	54.32	H	-53.10	0.93	9.87	-44.16	-13	31.16
3558.60	52.53	V	-54.89	0.93	9.87	-45.95	-13	32.95

30 MHz ~ 26 GHz:

LTE Band 7:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
203.80	46.03	H	-59.28	0.42	-3.82	-63.52	-25	38.52
203.80	45.15	V	-60.28	0.42	-3.82	-64.52	-25	39.52
5005.00	50.25	H	-55.74	1.08	10.30	-46.52	-25	21.52
5005.00	46.57	V	-59.42	1.08	10.30	-50.20	-25	25.20
16-QAM 5MHz Bandwidth Low Channel								
203.80	46.43	H	-58.88	0.42	-3.82	-63.12	-25	38.12
203.80	45.09	V	-60.34	0.42	-3.82	-64.58	-25	39.58
5005.00	51.49	H	-54.50	1.08	10.30	-45.28	-25	20.28
5005.00	49.52	V	-56.47	1.08	10.30	-47.25	-25	22.25
QPSK 5MHz Bandwidth Middle Channel								
203.80	47.04	H	-58.27	0.42	-3.82	-62.51	-25	37.51
203.80	45.15	V	-60.28	0.42	-3.82	-64.52	-25	39.52
5070.00	49.90	H	-55.73	1.09	10.30	-46.52	-25	21.52
5070.00	48.57	V	-57.06	1.09	10.30	-47.85	-25	22.85
16-QAM 5MHz Bandwidth Middle Channel								
203.80	46.30	H	-59.01	0.42	-3.82	-63.25	-25	38.25
203.80	44.93	V	-60.50	0.42	-3.82	-64.74	-25	39.74
5070.00	49.55	H	-56.08	1.09	10.30	-46.87	-25	21.87
5070.00	48.75	V	-56.88	1.09	10.30	-47.67	-25	22.67
QPSK 5MHz Bandwidth High Channel								
203.80	45.97	H	-59.34	0.42	-3.82	-63.58	-25	38.58
203.80	45.15	V	-60.28	0.42	-3.82	-64.52	-25	39.52
5135.00	49.53	H	-55.74	1.10	10.30	-46.54	-25	21.54
5135.00	48.55	V	-56.72	1.10	10.30	-47.52	-25	22.52
16-QAM 5MHz Bandwidth High Channel								
203.80	46.14	H	-59.17	0.42	-3.82	-63.41	-25	38.41
203.80	44.93	V	-60.50	0.42	-3.82	-64.74	-25	39.74
5135.00	49.22	H	-56.05	1.10	10.30	-46.85	-25	21.85
5135.00	48.49	V	-56.78	1.10	10.30	-47.58	-25	22.58

30 MHz ~ 27 GHz:

LTE Band 41:

Frequency (MHz)	Receiver Reading (dBμV)	Rx Antenna	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel								
195.40	47.98	H	-57.57	0.42	-4.15	-62.14	-25	37.14
195.40	45.72	V	-58.95	0.42	-4.15	-63.52	-25	38.52
5115.00	50.99	H	-54.39	1.09	10.30	-45.18	-25	20.18
5115.00	49.32	V	-56.06	1.09	10.30	-46.85	-25	21.85
16-QAM 5MHz Bandwidth Low Channel								
195.40	47.89	H	-57.66	0.42	-4.15	-62.23	-25	37.23
195.40	45.55	V	-59.12	0.42	-4.15	-63.69	-25	38.69
5115.00	51.59	H	-53.79	1.09	10.30	-44.58	-25	19.58
5115.00	49.63	V	-55.75	1.09	10.30	-46.54	-25	21.54
QPSK 5MHz Bandwidth Middle Channel								
195.40	47.77	H	-57.78	0.42	-4.15	-62.35	-25	37.35
195.40	45.72	V	-58.95	0.42	-4.15	-63.52	-25	38.52
5210.00	51.51	H	-53.34	1.11	10.30	-44.15	-25	19.15
5210.00	49.25	V	-55.60	1.11	10.30	-46.41	-25	21.41
16-QAM 5MHz Bandwidth Middle Channel								
195.40	47.27	H	-58.28	0.42	-4.15	-62.85	-25	37.85
195.40	45.55	V	-59.12	0.42	-4.15	-63.69	-25	38.69
5210.00	51.64	H	-53.21	1.11	10.30	-44.02	-25	19.02
5210.00	49.31	V	-55.54	1.11	10.30	-46.35	-25	21.35
QPSK 5MHz Bandwidth High Channel								
195.40	47.87	H	-57.68	0.42	-4.15	-62.25	-25	37.25
195.40	45.70	V	-58.97	0.42	-4.15	-63.54	-25	38.54
5325.00	51.68	H	-52.53	1.12	10.30	-43.35	-25	18.35
5325.00	49.75	V	-54.46	1.12	10.30	-45.28	-25	20.28
16-QAM 5MHz Bandwidth High Channel								
195.40	48.27	H	-57.28	0.42	-4.15	-61.85	-25	36.85
195.40	45.82	V	-58.85	0.42	-4.15	-63.42	-25	38.42
5325.00	52.47	H	-51.74	1.12	10.30	-42.56	-25	17.56
5325.00	50.80	V	-53.41	1.12	10.30	-44.23	-25	19.23

Note:
1) Absolute Level (dBm) = Submitted Level (dBm) - Cable loss (dB) + Antenna Gain (dBd/dBi)
2) Margin (dB) = Limit (dBm) - Absolute Level (dBm)

BAND EDGES

Environmental Conditions & Test Information

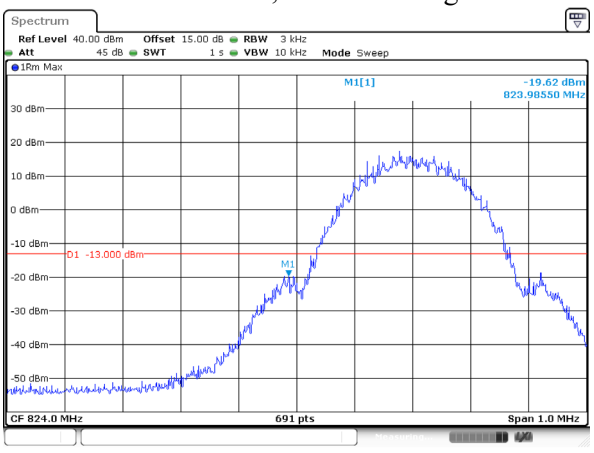
Test Date:	2025-05-22 to 2025-05-27
Temperature:	23.7-24.5 ℃
Relative Humidity:	48-53 %
ATM Pressure:	101.5-103.2kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting
Test Result: Compliant.

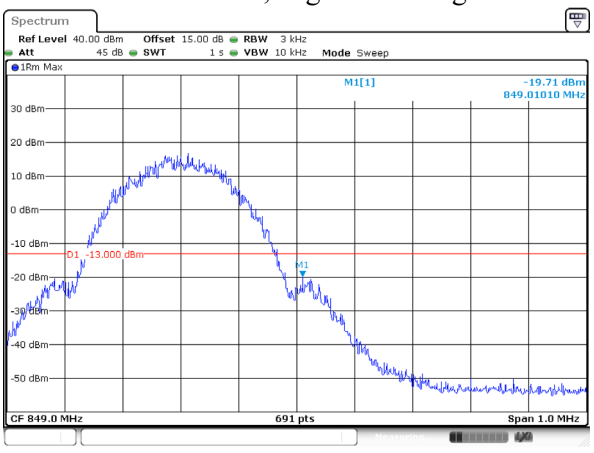
LTE: Please check the APPENDIX C_Band edge for detail.

GPRS 850 Band:

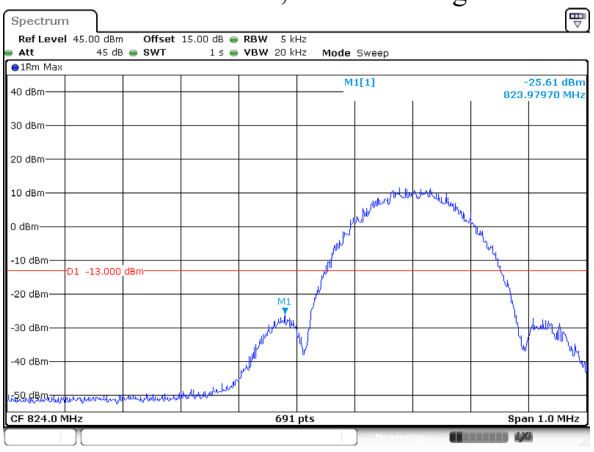
GPRS Mode, Left Band Edge



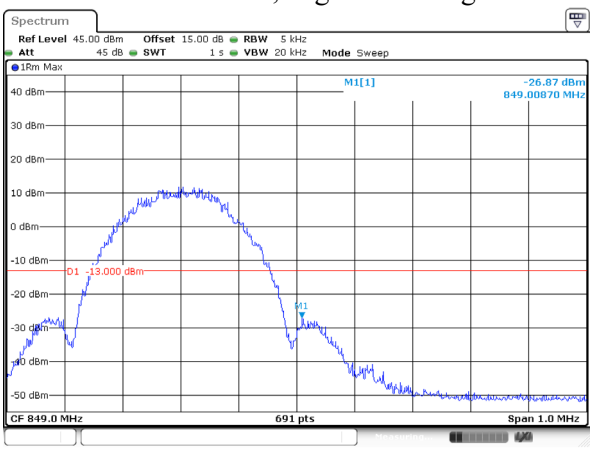
GPRS Mode, Right Band Edge



EGPRS Mode, Left Band Edge

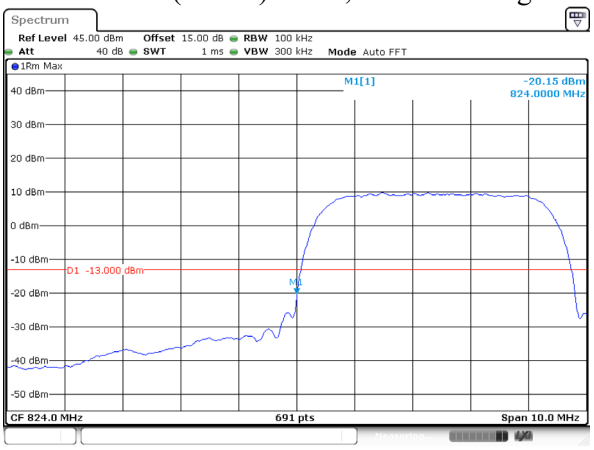


EGPRS Mode, Right Band Edge



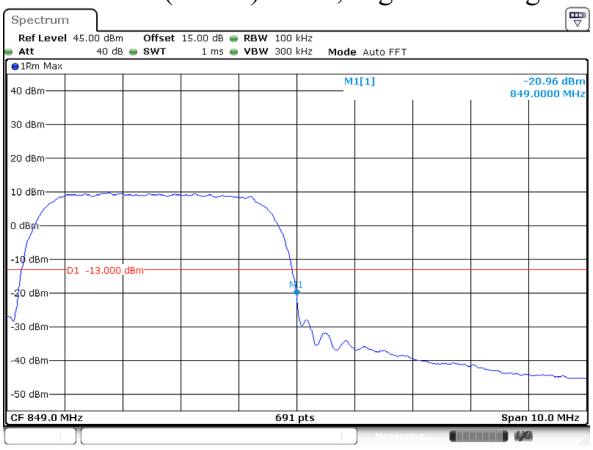
WCDMA Band V

WCDMA (Rel 99) Mode, Left Band Edge



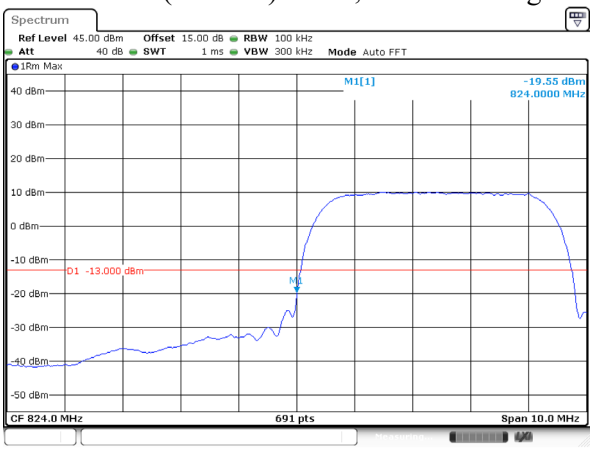
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:16:20

WCDMA (Rel 99) Mode, Right Band Edge



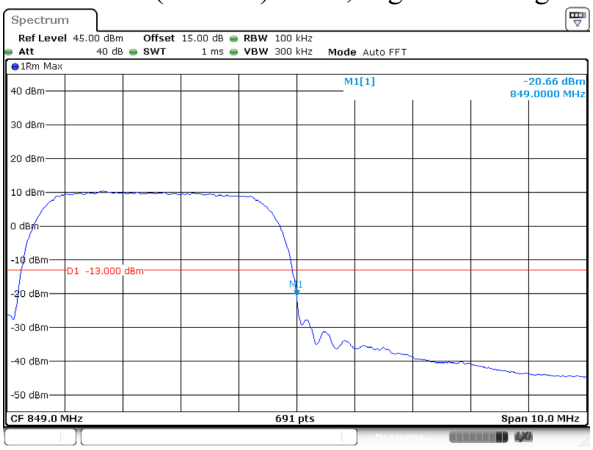
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:15:02

WCDMA (HSDPA) Mode, Left Band Edge



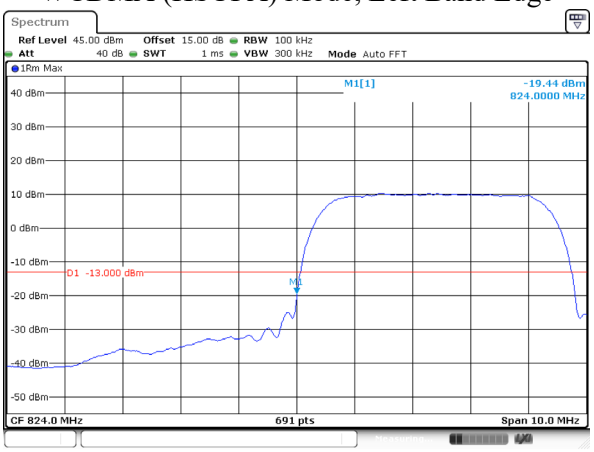
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:16:34

WCDMA (HSDPA) Mode, Right Band Edge



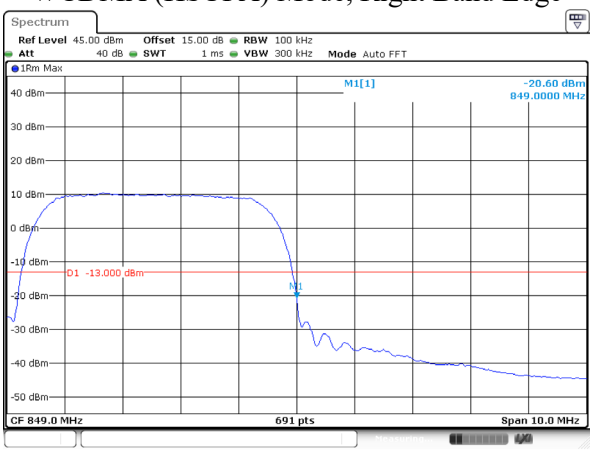
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:15:19

WCDMA (HSUPA) Mode, Left Band Edge



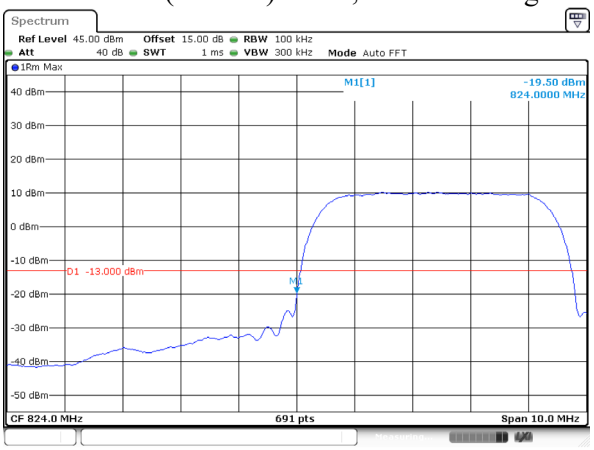
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:17:15

WCDMA (HSUPA) Mode, Right Band Edge

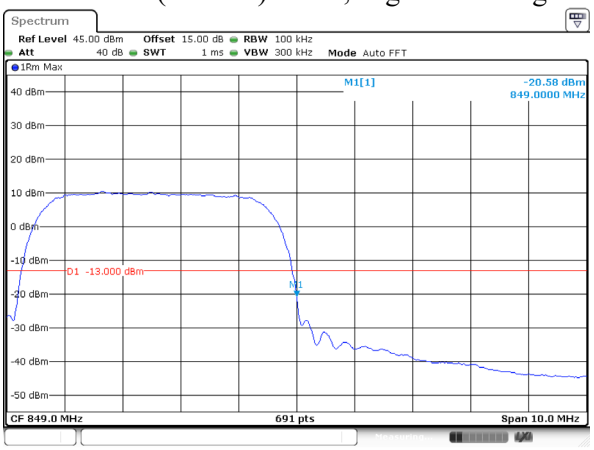


ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:15:31

WCDMA (HSPA+) Mode, Left Band Edge

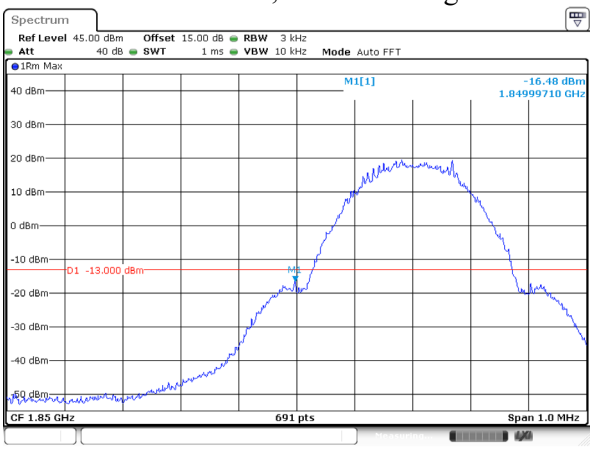


WCDMA (HSPA+) Mode, Right Band Edge



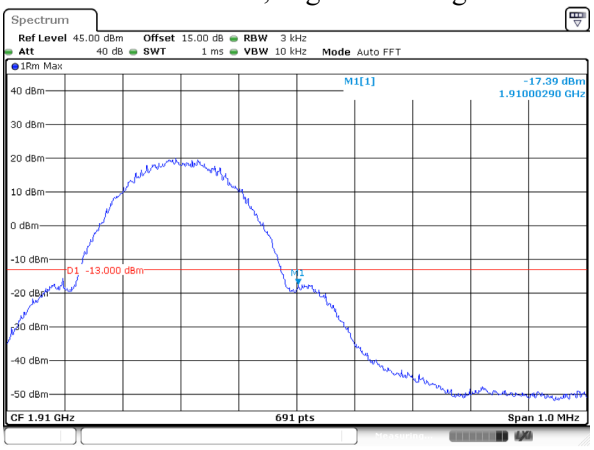
PCS 1900 Band:

GPRS Mode, Left Band Edge



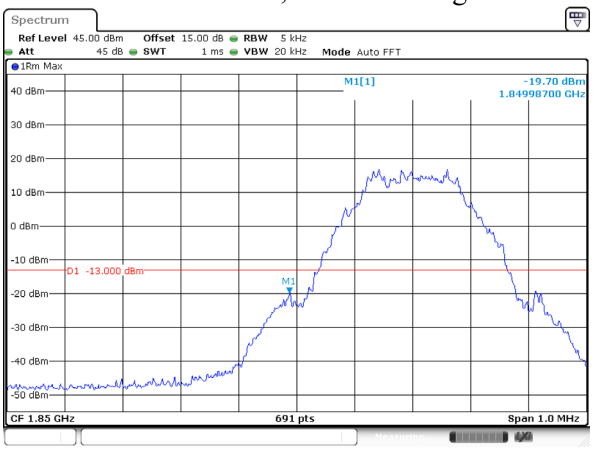
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 27.MAY.2025 13:44:56

GPRS Mode, Right Band Edge



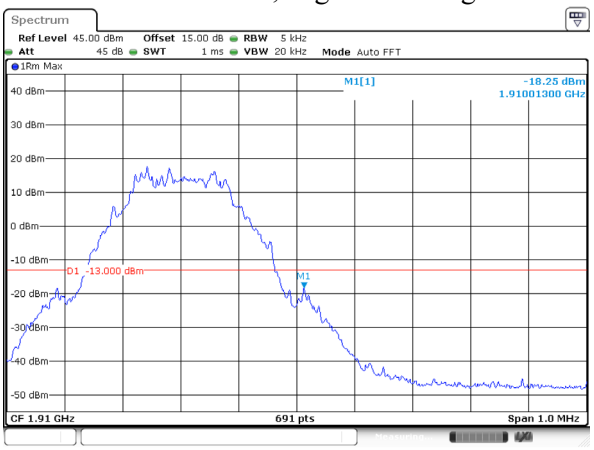
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 27.MAY.2025 13:46:57

EGPRS Mode, Left Band Edge



ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 10:35:43

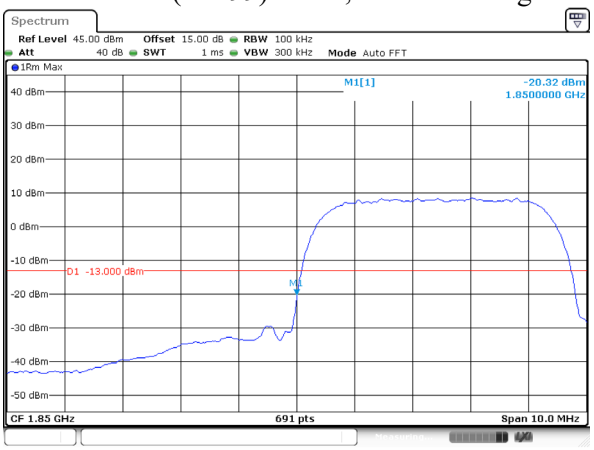
EGPRS Mode, Right Band Edge



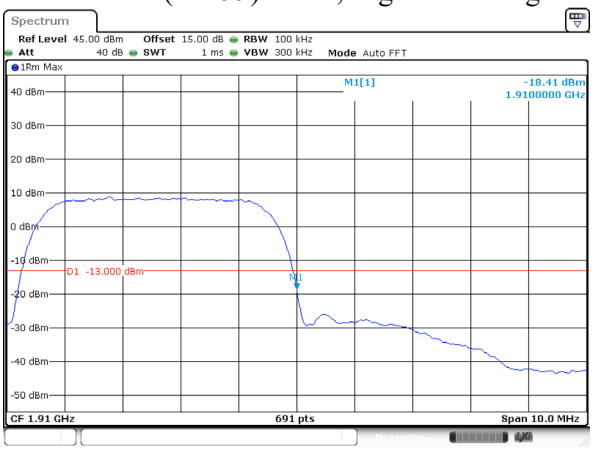
ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 10:34:54

WCDMA Band II

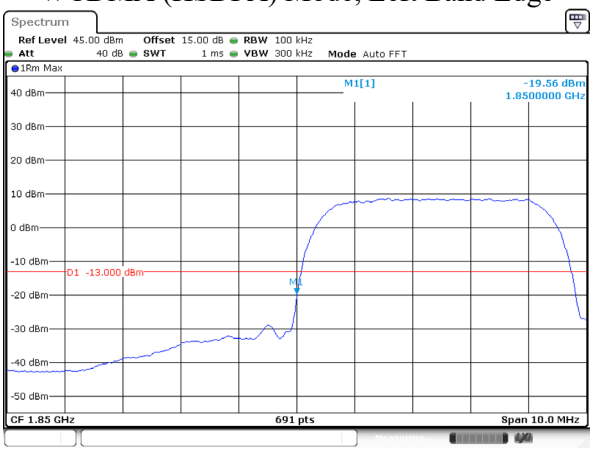
WCDMA (Rel 99) Mode, Left Band Edge



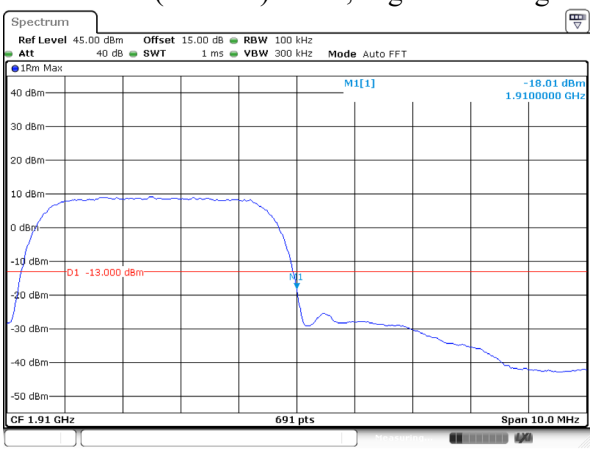
WCDMA (Rel 99) Mode, Right Band Edge



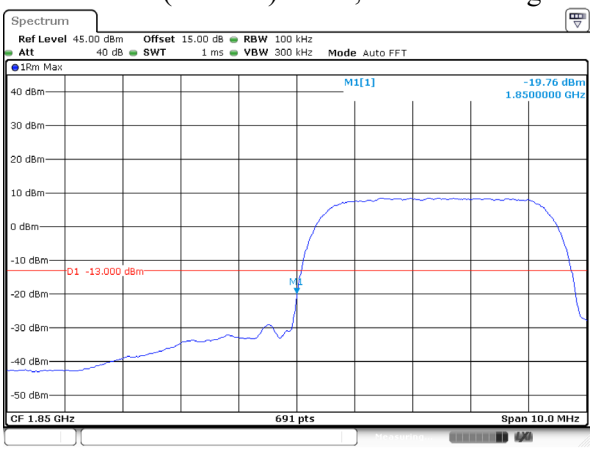
WCDMA (HSDPA) Mode, Left Band Edge



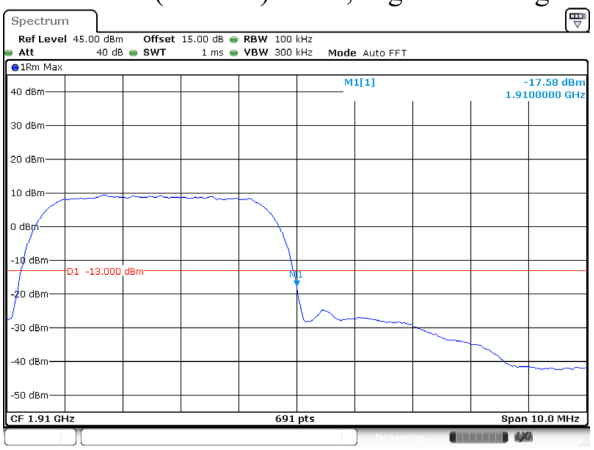
WCDMA (HSDPA) Mode, Right Band Edge



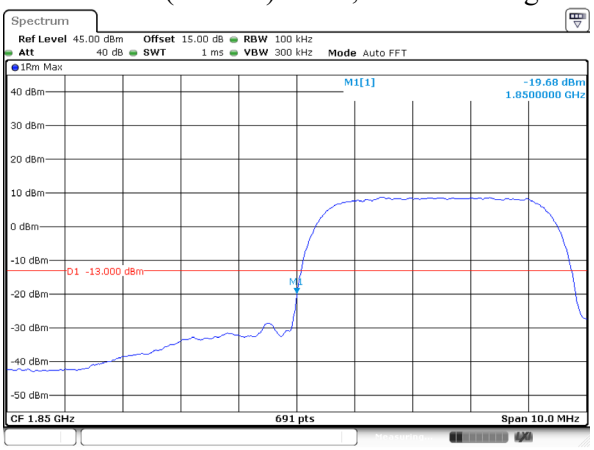
WCDMA (HSUPA) Mode, Left Band Edge



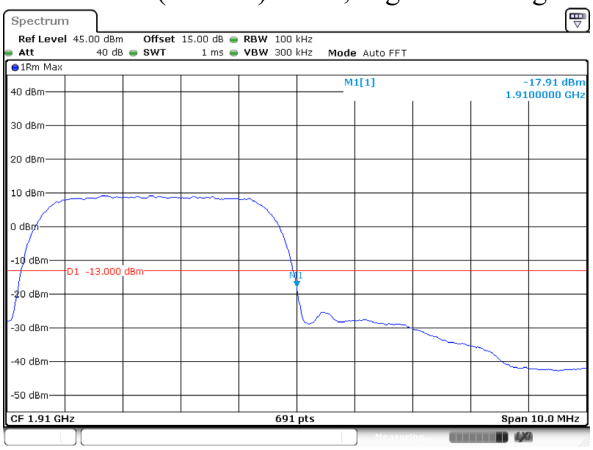
WCDMA (HSUPA) Mode, Right Band Edge



WCDMA (HSPA+) Mode, Left Band Edge

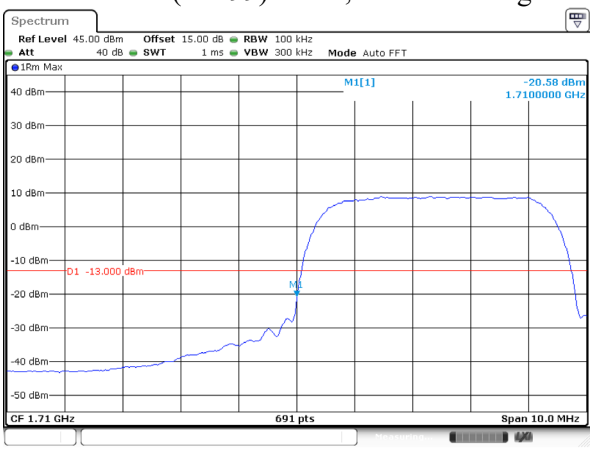


WCDMA (HSPA+) Mode, Right Band Edge

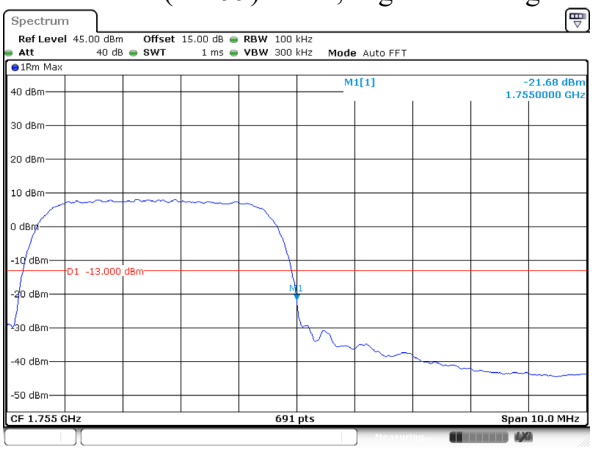


WCDMA Band IV

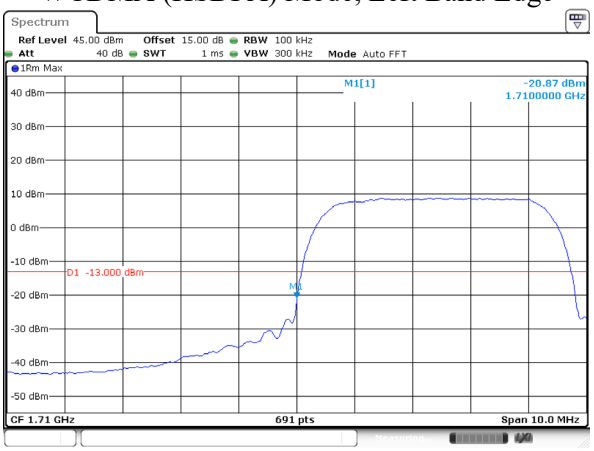
WCDMA (Rel 99) Mode, Left Band Edge



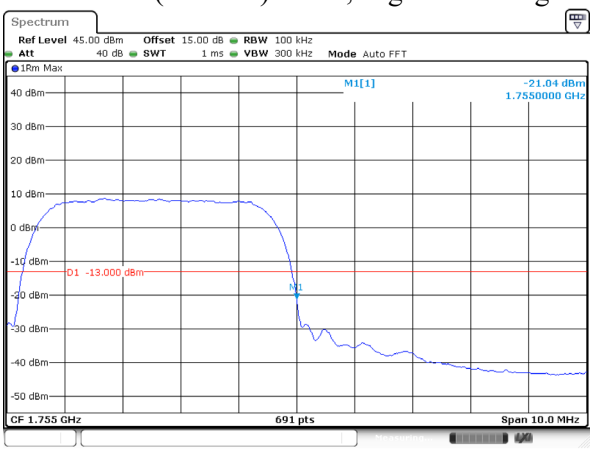
WCDMA (Rel 99) Mode, Right Band Edge



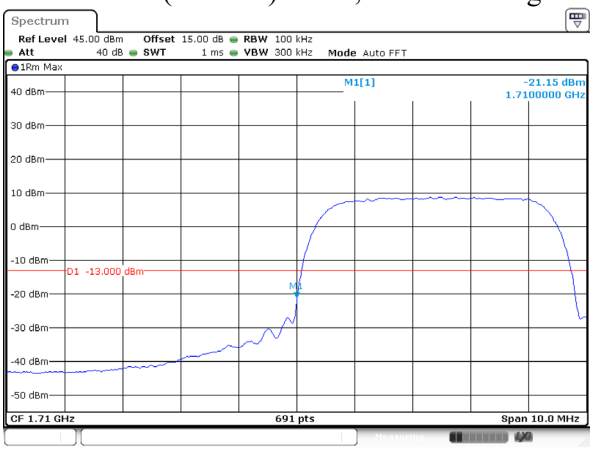
WCDMA (HSDPA) Mode, Left Band Edge



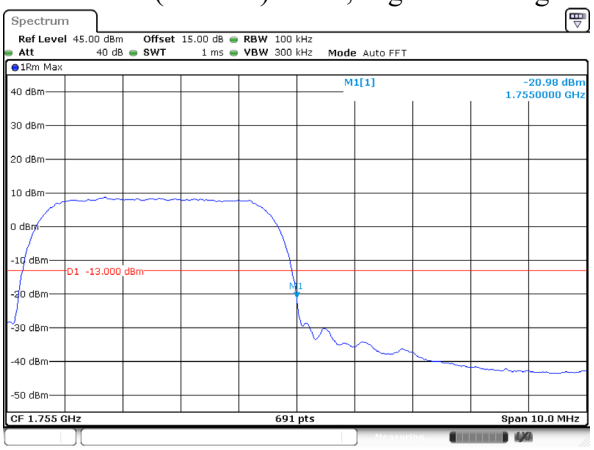
WCDMA (HSDPA) Mode, Right Band Edge



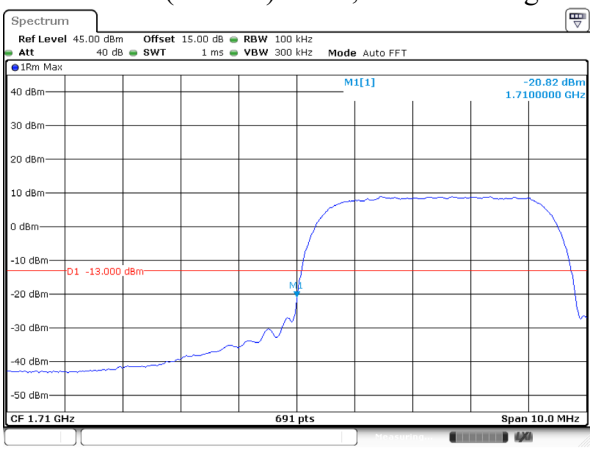
WCDMA (HSUPA) Mode, Left Band Edge



WCDMA (HSUPA) Mode, Right Band Edge

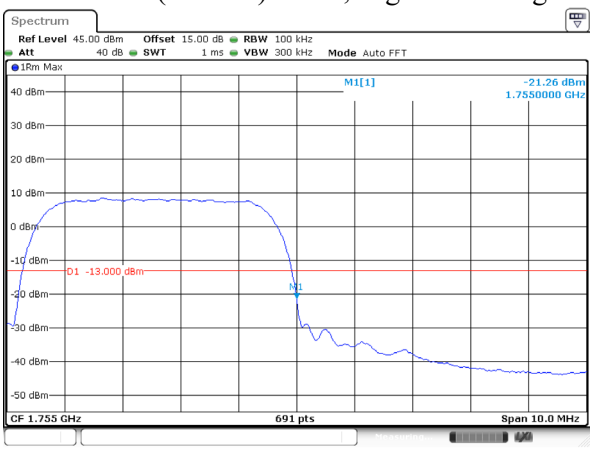


WCDMA (HSPA+) Mode, Left Band Edge



ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:27:52

WCDMA (HSPA+) Mode, Right Band Edge



ProjectNo.:RKSA250319001 Tester:Neil Zhou
Date: 26.MAY.2025 13:28:54

FREQUENCY STABILITY

Environmental Conditions & Test Information

Test Date:	2025-03-31 to 2025-04-20
Temperature:	24.3-25.1 ℃
Relative Humidity:	50-51 %
ATM Pressure:	102.9-103.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

GPRS 850,Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	35	0.04184	2.5
-20		41	0.04901	2.5
-10		25	0.02988	2.5
0		19	0.02271	2.5
10		32	0.03825	2.5
20		14	0.01673	2.5
30		18	0.02152	2.5
40		26	0.03108	2.5
50		26	0.03108	2.5
20	V min.= 6.29	12	0.01434	2.5
20	V max.= 8.4	11	0.01315	2.5

EGPRS 850, Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	35	0.04184	2.5
-20		24	0.02869	2.5
-10		20	0.02391	2.5
0		21	0.02510	2.5
10		18	0.02152	2.5
20		36	0.04303	2.5
30		24	0.02869	2.5
40		19	0.02271	2.5
50		32	0.03825	2.5
20	V min.= 6.29	36	0.04303	2.5
20	V max.= 8.4	25	0.02988	2.5

GPRS 1900, low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.077	1909.987	1850	1910
-20		1850.072	1909.981	1850	1910
-10		1850.061	1909.969	1850	1910
0		1850.056	1909.968	1850	1910
10		1850.054	1909.975	1850	1910
20		1850.091	1909.979	1850	1910
30		1850.097	1909.990	1850	1910
40		1850.065	1909.974	1850	1910
50		1850.059	1909.967	1850	1910
20	V min.= 6.29	1850.058	1909.992	1850	1910
20	V max.= 8.4	1850.099	1909.980	1850	1910

EGPRS 1900, low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.114	1909.970	1850	1910
-20		1850.071	1909.974	1850	1910
-10		1850.091	1909.994	1850	1910
0		1850.081	1909.975	1850	1910
10		1850.097	1909.991	1850	1910
20		1850.067	1909.968	1850	1910
30		1850.078	1909.992	1850	1910
40		1850.075	1909.976	1850	1910
50		1850.054	1909.982	1850	1910
20	V min.= 6.29	1850.065	1909.975	1850	1910
20	V max.= 8.4	1850.049	1909.968	1850	1910

WCDMA Band II:

WCDMA Mode , low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.076	1909.994	1850	1910
-20		1850.054	1909.980	1850	1910
-10		1850.072	1909.973	1850	1910
0		1850.057	1909.987	1850	1910
10		1850.082	1909.968	1850	1910
20		1850.087	1909.991	1850	1910
30		1850.048	1909.986	1850	1910
40		1850.079	1909.985	1850	1910
50		1850.064	1909.984	1850	1910
20	V min.= 6.29	1850.047	1909.974	1850	1910
20	V max.= 8.4	1850.071	1909.968	1850	1910

WCDMA Band IV:

WCDMA Mode , low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1710.048	1754.974	1710	1755
-20		1710.071	1754.969	1710	1755
-10		1710.044	1754.959	1710	1755
0		1710.069	1754.977	1710	1755
10		1710.046	1754.962	1710	1755
20		1710.058	1754.962	1710	1755
30		1710.095	1754.964	1710	1755
40		1710.079	1754.958	1710	1755
50		1710.095	1754.981	1710	1755
20	V min.= 6.29	1710.092	1754.966	1710	1755
20	V max.= 8.4	1710.094	1754.980	1710	1755

WCDMA Band V:

WCDMA Mode， Middle channel				
Temperature (℃)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	34	0.04064	2.5
-20		28	0.03347	2.5
-10		21	0.02510	2.5
0		25	0.02988	2.5
10		41	0.04901	2.5
20		34	0.04064	2.5
30		21	0.02510	2.5
40		33	0.03945	2.5
50		27	0.03227	2.5
20	V min.= 6.29	31	0.03705	2.5
20	V max.= 8.4	19	0.02271	2.5

LTE Band 2:

QPSK, 20MHz, low channel& high channel					
Temperature (℃)	Voltage Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	7.4	1850.123	1909.979	1850	1910
-20		1850.062	1909.991	1850	1910
-10		1850.053	1909.977	1850	1910
0		1850.076	1909.992	1850	1910
10		1850.083	1909.991	1850	1910
20		1850.097	1909.995	1850	1910
30		1850.091	1909.979	1850	1910
40		1850.066	1909.989	1850	1910
50		1850.083	1909.985	1850	1910
20	V min.= 6.29	1850.089	1909.988	1850	1910
20	V max.= 8.4	1850.073	1909.988	1850	1910

16-QAM, 20MHz, low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.093	1909.977	1850	1910
-20		1850.100	1909.983	1850	1910
-10		1850.091	1909.986	1850	1910
0		1850.069	1909.993	1850	1910
10		1850.053	1909.976	1850	1910
20		1850.098	1909.985	1850	1910
30		1850.094	1909.974	1850	1910
40		1850.063	1909.983	1850	1910
50		1850.051	1909.970	1850	1910
20	V min.= 6.29	1850.082	1909.980	1850	1910
20	V max.= 8.4	1850.077	1909.978	1850	1910

LTE Band 4:

QPSK, 20MHz, low channel& high channel					
Temperature	**Power Supplied**	**F_L**	**F_H**	**F_L Limit**	**F_H Limit**
(℃)	**(V_{DC})**	**(MHz)**	**(MHz)**	**(MHz)**	**(MHz)**
-30	7.4	1710.047	1754.974	1710	1755
-20		1710.048	1754.981	1710	1755
-10		1710.080	1754.979	1710	1755
0		1710.097	1754.982	1710	1755
10		1710.046	1754.963	1710	1755
20		1710.055	1754.955	1710	1755
30		1710.096	1754.969	1710	1755
40		1710.070	1754.966	1710	1755
50		1710.068	1754.966	1710	1755
20	V min.= 6.29	1710.085	1754.974	1710	1755
20	V max.= 8.4	1710.070	1754.957	1710	1755

16QAM, 20MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1710.046	1754.964	1710	1755
-20		1710.054	1754.967	1710	1755
-10		1710.073	1754.981	1710	1755
0		1710.093	1754.961	1710	1755
10		1710.092	1754.980	1710	1755
20		1710.063	1754.978	1710	1755
30		1710.078	1754.957	1710	1755
40		1710.088	1754.978	1710	1755
50		1710.044	1754.962	1710	1755
20	V min.= 6.29	1710.075	1754.979	1710	1755
20	V max.= 8.4	1710.076	1754.969	1710	1755

LTE Band 5:

QPSK, 10.0 MHz,Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	21	0.02510	2.5
-20		28	0.03347	2.5
-10		35	0.04184	2.5
0		12	0.01435	2.5
10		21	0.02510	2.5
20		35	0.04184	2.5
30		18	0.02152	2.5
40		41	0.04901	2.5
50		25	0.02989	2.5
20	V min.= 6.29	16	0.01913	2.5
20	V max.= 8.4	19	0.02271	2.5

16-QAM, 10.0 MHz, Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	29	0.03467	2.5
-20		36	0.04304	2.5
-10		24	0.02869	2.5
0		21	0.02510	2.5
10		28	0.03347	2.5
20		21	0.02510	2.5
30		33	0.03945	2.5
40		15	0.01793	2.5
50		17	0.02032	2.5
20	V min.= 6.29	13	0.01554	2.5
20	V max.= 8.4	27	0.03228	2.5

LTE Band 7:

QPSK，20 MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	2500.029	2569.968	2500	2570
-20		2500.025	2569.979	2500	2570
-10		2500.027	2569.983	2500	2570
0		2500.022	2569.984	2500	2570
10		2500.031	2569.967	2500	2570
20		2500.025	2569.967	2500	2570
30		2500.025	2569.967	2500	2570
40		2500.028	2569.971	2500	2570
50		2500.022	2569.980	2500	2570
20	V min.= 6.29	2500.025	2569.965	2500	2570
20	V max.= 8.4	2500.029	2569.978	2500	2570

16-QAM, 20 MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	2500.031	2569.978	2500	2570
-20		2500.025	2569.980	2500	2570
-10		2500.028	2569.983	2500	2570
0		2500.030	2569.976	2500	2570
10		2500.022	2569.979	2500	2570
20		2500.030	2569.964	2500	2570
30		2500.028	2569.969	2500	2570
40		2500.025	2569.967	2500	2570
50		2500.025	2569.967	2500	2570
20	V min.= 6.29	2500.028	2569.978	2500	2570
20	V max.= 8.4	2500.026	2569.972	2500	2570

LTE Band 12:

QPSK, 10MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	699.137	715.981	699	716
-20		699.146	715.980	699	716
-10		699.137	715.975	699	716
0		699.114	715.978	699	716
10		699.146	715.978	699	716
20		699.153	715.985	699	716
30		699.142	715.979	699	716
40		699.104	715.983	699	716
50		699.118	715.981	699	716
20	V min.= 6.29	699.117	715.977	699	716
20	V max.= 8.4	699.144	715.980	699	716

16QAM, 10MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	699.148	715.981	699	716
-20		699.131	715.987	699	716
-10		699.106	715.985	699	716
0		699.121	715.982	699	716
10		699.137	715.986	699	716
20		699.145	715.981	699	716
30		699.118	715.982	699	716
40		699.113	715.975	699	716
50		699.123	715.987	699	716
20	V min.= 6.29	699.119	715.983	699	716
20	V max.= 8.4	699.132	715.984	699	716

LTE Band 17:

QPSK, 10MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	704.11173	715.98507	704	716
-20		704.10386	715.97732	704	716
-10		704.12432	715.9785	704	716
0		704.12424	715.982	704	716
10		704.11815	715.98545	704	716
20		704.10926	715.9871	704	716
30		704.11409	715.98083	704	716
40		704.10134	715.98389	704	716
50		704.12496	715.9856	704	716
20	V min.= 6.29	704.13777	715.98451	704	716
20	V max.= 8.4	704.12428	715.9859	704	716

16QAM, 10MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	704.115	715.985	704	716
-20		704.135	715.977	704	716
-10		704.107	715.986	704	716
0		704.102	715.977	704	716
10		704.134	715.979	704	716
20		704.123	715.978	704	716
30		704.111	715.983	704	716
40		704.121	715.978	704	716
50		704.130	715.983	704	716
20	V min.= 6.29	704.129	715.983	704	716
20	V max.= 8.4	704.135	715.981	704	716

LTE Band 25:

QPSK, 20MHz, low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.73	1914.978	1850	1915
-20		1850.103	1914.973	1850	1915
-10		1850.095	1914.99	1850	1915
0		1850.099	1914.972	1850	1915
10		1850.07	1914.991	1850	1915
20		1850.05	1914.974	1850	1915
30		1850.096	1914.987	1850	1915
40		1850.048	1914.978	1850	1915
50		1850.071	1914.977	1850	1915
20	V min.= 6.29	1850.065	1914.99	1850	1915
20	V max.= 8.4	1850.054	1914.978	1850	1915

16-QAM, 20MHz, low channel& high channel					
Temperature (℃)	**Voltage Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1850.105	1914.973	1850	1915
-20		1850.125	1914.982	1850	1915
-10		1850.076	1914.969	1850	1915
0		1850.077	1914.976	1850	1915
10		1850.059	1914.979	1850	1915
20		1850.072	1914.994	1850	1915
30		1850.085	1914.983	1850	1915
40		1850.087	1914.991	1850	1915
50		1850.075	1914.97	1850	1915
20	V min.= 6.29	1850.1	1914.992	1850	1915
20	V max.= 8.4	1850.064	1914.978	1850	1915

LTE Band 26(814-824)

15.0 MHz Low Channel, fo =821.5MHz (QPSK)				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	18	0.02191	2.5
-20		27	0.03287	2.5
-10		12	0.01461	2.5
0		31	0.03774	2.5
10		21	0.02556	2.5
20		27	0.03287	2.5
30		25	0.03043	2.5
40		26	0.03165	2.5
50		52	0.06330	2.5
20	V min.= 6.29	35	0.04260	2.5
20	V max.= 8.4	41	0.04991	2.5

15.0 MHz Low Channel, fo =821.5MHz (16-QAM)				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	33	0.04017	2.5
-20		26	0.03165	2.5
-10		47	0.05721	2.5
0		53	0.06452	2.5
10		26	0.03165	2.5
20		21	0.02556	2.5
30		26	0.03165	2.5
40		17	0.02069	2.5
50		35	0.04260	2.5
20	V min.= 6.29	31	0.03774	2.5
20	V max.= 8.4	19	0.02313	2.5

LTE Band 26(824-849)

QPSK, 15.0 MHz,Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	25	0.02989	2.5
-20		31	0.03706	2.5
-10		24	0.02869	2.5
0		18	0.02152	2.5
10		15	0.01793	2.5
20		16	0.01913	2.5
30		21	0.02510	2.5
40		18	0.02152	2.5
50		32	0.03825	2.5
20	V min.= 6.29	21	0.02510	2.5
20	V max.= 8.4	48	0.05738	2.5

16-QAM, 15.0 MHz,Middle channel				
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Frequency Error (Hz)**	**Frequency Error (ppm)**	**Limit (ppm)**
-30	7.4	21	0.02510	2.5
-20		69	0.08249	2.5
-10		54	0.06455	2.5
0		21	0.02510	2.5
10		32	0.03825	2.5
20		15	0.01793	2.5
30		18	0.02152	2.5
40		10	0.01195	2.5
50		31	0.03706	2.5
20	V min.= 6.29	26	0.03108	2.5
20	V max.= 8.4	15	0.01793	2.5

LTE Band 41:

QPSK, 20 MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	2496.067	2689.967	2496	2690
-20		2496.140	2689.977	2496	2690
-10		2496.064	2689.973	2496	2690
0		2496.093	2689.963	2496	2690
10		2496.125	2689.965	2496	2690
20		2496.138	2689.970	2496	2690
30		2496.145	2689.981	2496	2690
40		2496.057	2689.964	2496	2690
50		2496.093	2689.969	2496	2690
20	V min.= 6.29	2496.048	2689.973	2496	2690
20	V max.= 8.4	2496.055	2689.980	2496	2690

16-QAM, 20 MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	2496.110	2689.975	2496	2690
-20		2496.144	2689.970	2496	2690
-10		2496.120	2689.977	2496	2690
0		2496.088	2689.977	2496	2690
10		2496.104	2689.979	2496	2690
20		2496.127	2689.967	2496	2690
30		2496.076	2689.971	2496	2690
40		2496.088	2689.966	2496	2690
50		2496.056	2689.965	2496	2690
20	V min.= 6.29	2496.111	2689.975	2496	2690
20	V max.= 8.4	2496.108	2689.974	2496	2690

LTE Band 66:

QPSK, 20MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1710.071	1779.966	1710	1780
-20		1710.111	1779.958	1710	1780
-10		1710.040	1779.981	1710	1780
0		1710.103	1779.976	1710	1780
10		1710.118	1779.971	1710	1780
20		1710.042	1779.971	1710	1780
30		1710.131	1779.982	1710	1780
40		1710.054	1779.982	1710	1780
50		1710.108	1779.961	1710	1780
20	V min.= 6.29	1710.048	1779.985	1710	1780
20	V max.= 8.4	1710.131	1779.965	1710	1780

16QAM, 20MHz, low channel& high channel					
Temperature (℃)	**Power Supplied (V_{DC})**	**F_L (MHz)**	**F_H (MHz)**	**F_L Limit (MHz)**	**F_H Limit (MHz)**
-30	7.4	1710.127	1779.971	1710	1780
-20		1710.102	1779.983	1710	1780
-10		1710.054	1779.973	1710	1780
0		1710.132	1779.971	1710	1780
10		1710.113	1779.984	1710	1780
20		1710.103	1779.970	1710	1780
30		1710.070	1779.957	1710	1780
40		1710.106	1779.956	1710	1780
50		1710.104	1779.979	1710	1780
20	V min.= 6.29	1710.040	1779.974	1710	1780
20	V max.= 8.4	1710.067	1779.958	1710	1780

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with "★".

2. The test data was only valid for the test sample(s).

3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

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