

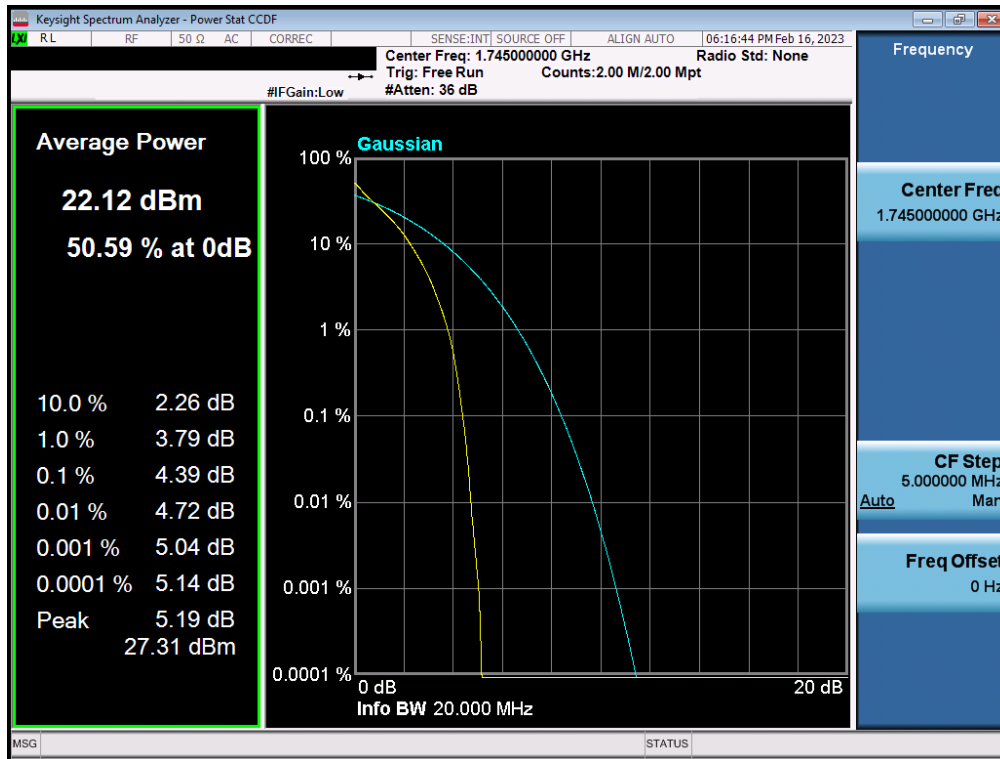
Plot 7-315. PAR Plot (NR Band n66 - 5MHz CP-OFDM QPSK - Full RB – Main2)



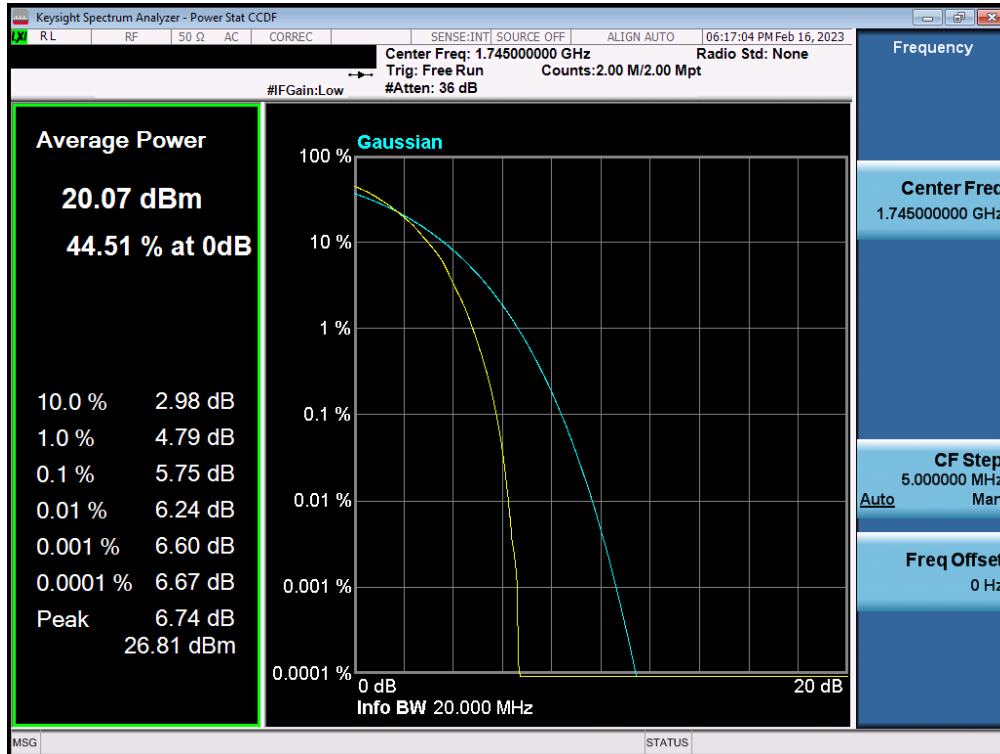
Plot 7-316. PAR Plot (NR Band n66 - 5MHz CP-OFDM 256-QAM - Full RB – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66 – Sub

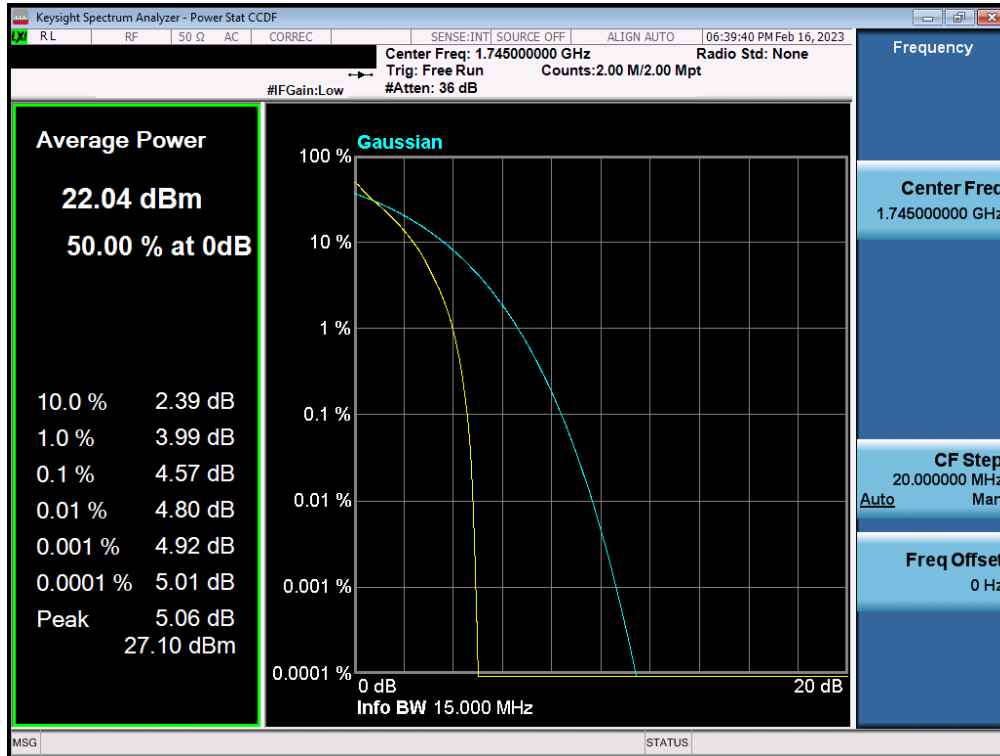


Plot 7-317. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB – Sub)

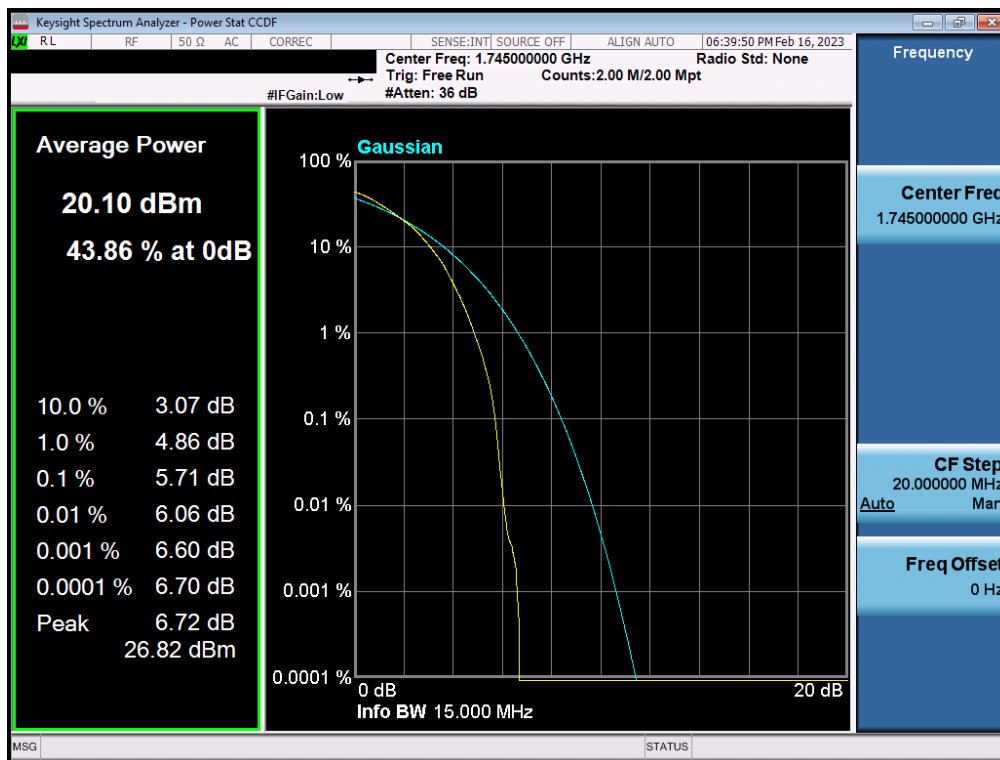


Plot 7-318. PAR Plot (LTE Band 66 - 20MHz 64-QAM - Full RB – Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 185 of 232

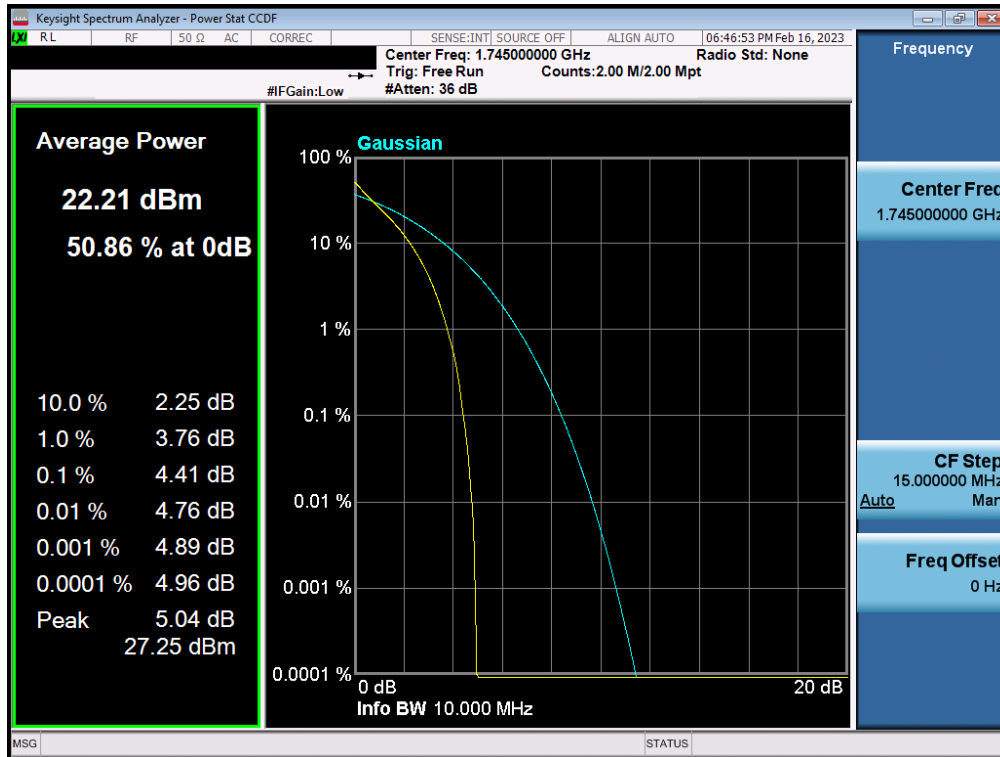


Plot 7-319. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB - Sub)

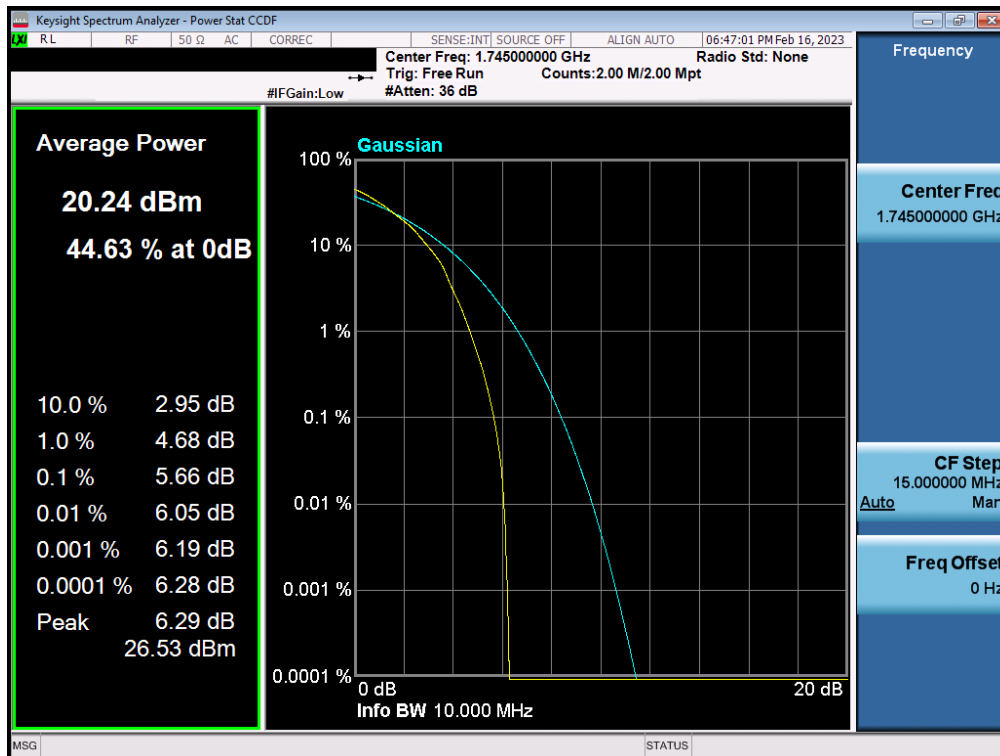


Plot 7-320. PAR Plot (LTE Band 66 - 15MHz 64-QAM - Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 186 of 232

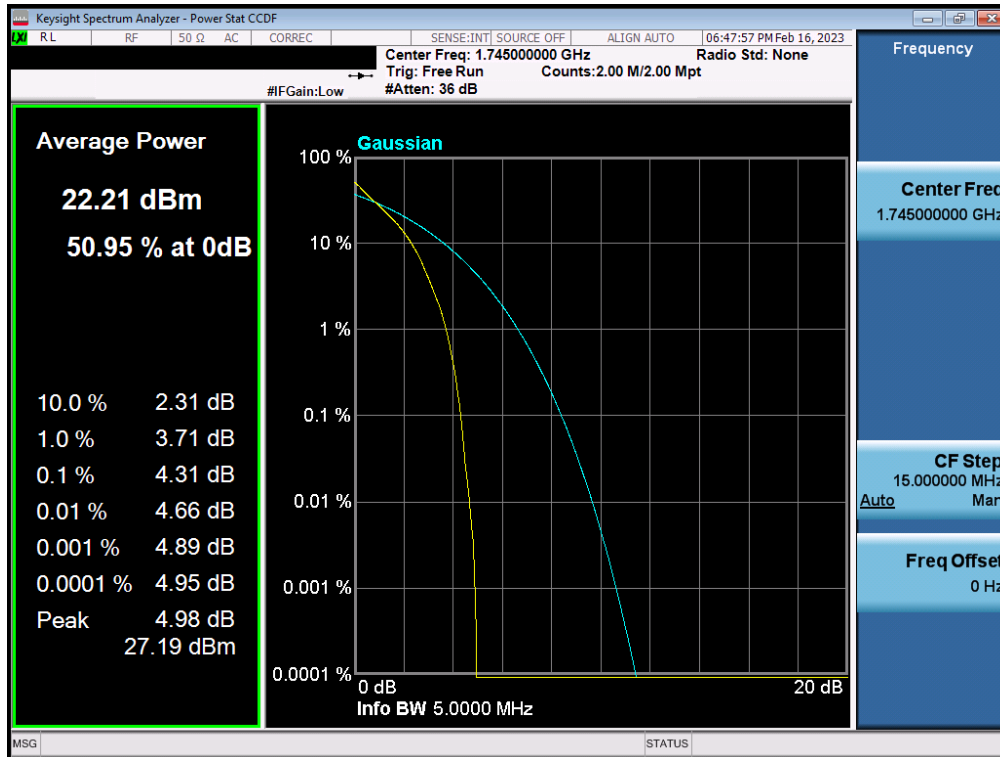


Plot 7-321. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB - Sub)

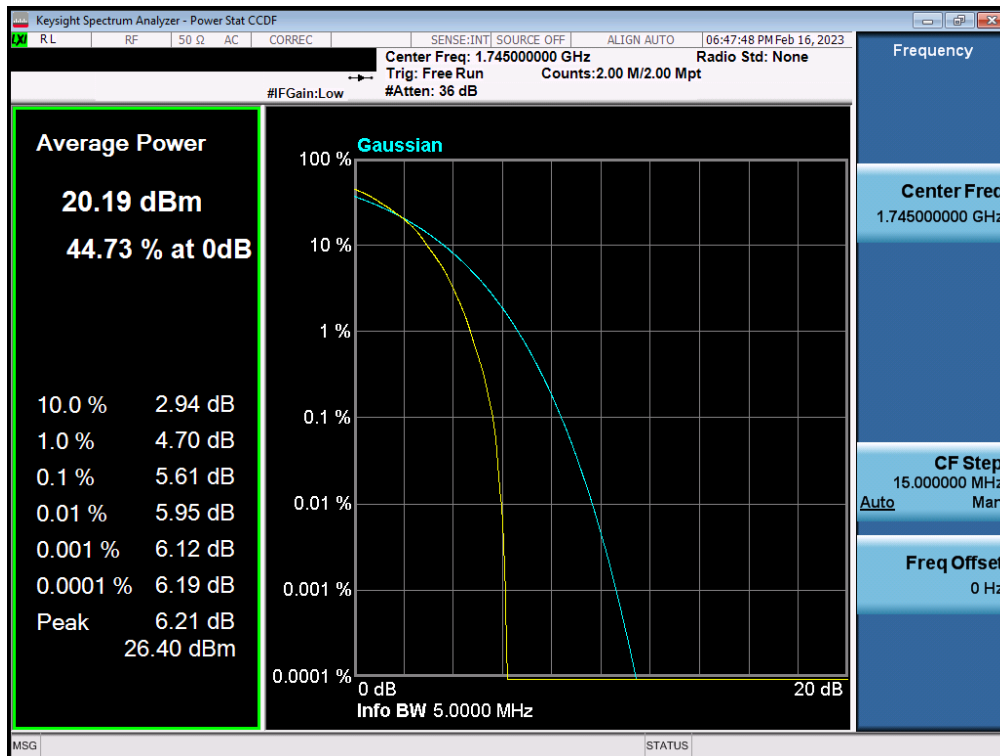


Plot 7-322. PAR Plot (LTE Band 66 - 10MHz 64-QAM - Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 187 of 232

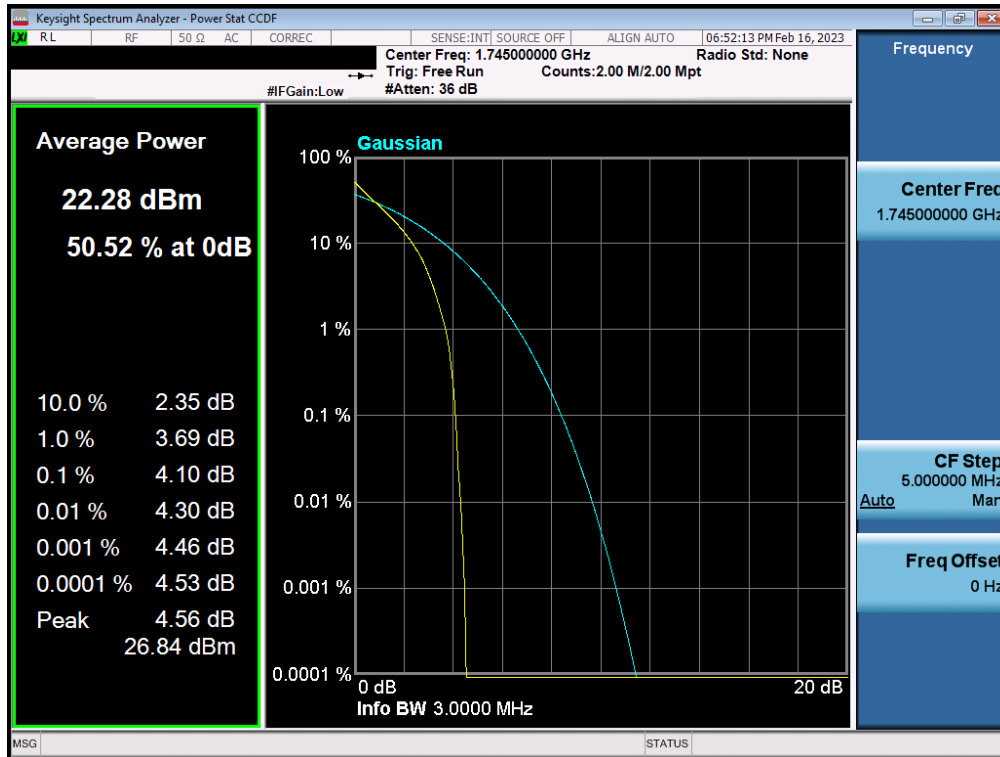


Plot 7-323. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB - Sub)

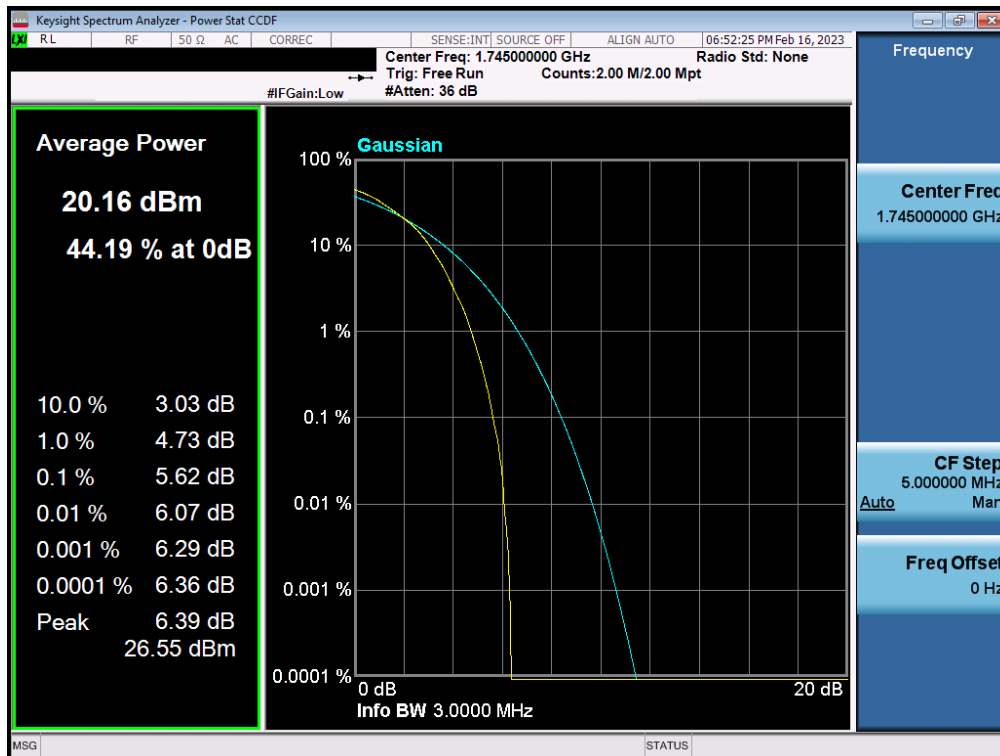


Plot 7-324. PAR Plot (LTE Band 66 - 5MHz 64-QAM - Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 188 of 232

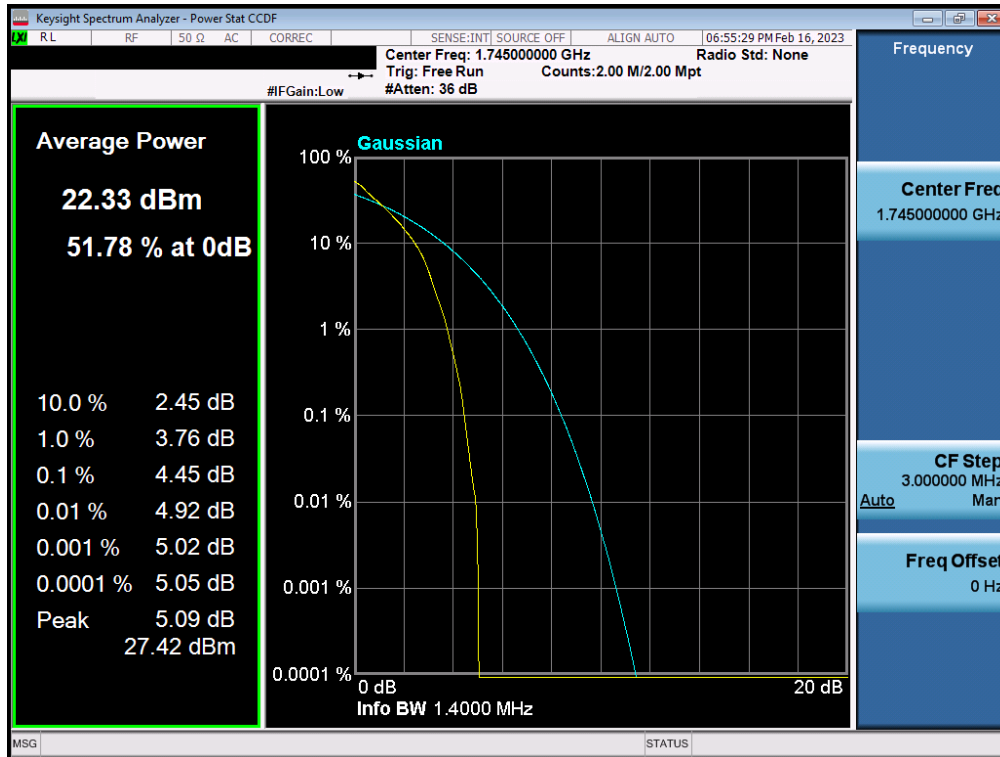


Plot 7-325. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB - Sub)

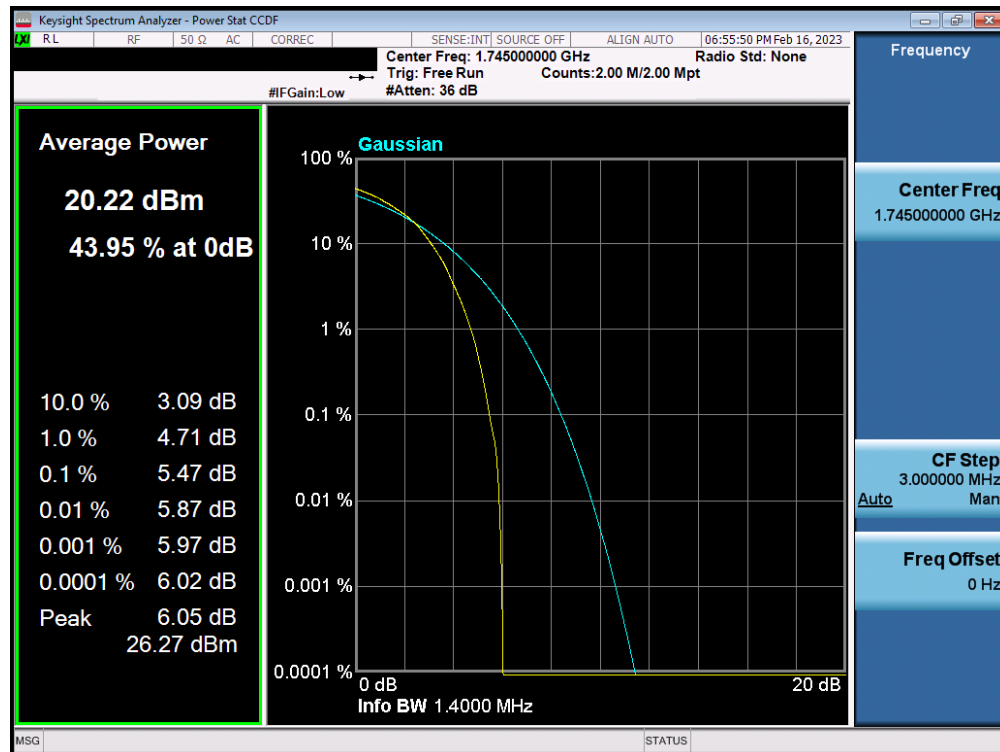


Plot 7-326. PAR Plot (LTE Band 66 - 3MHz 64-QAM - Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-327. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB - Sub)



Plot 7-328. PAR Plot (LTE Band 66 - 1.4MHz 64-QAM - Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 190 of 232

7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

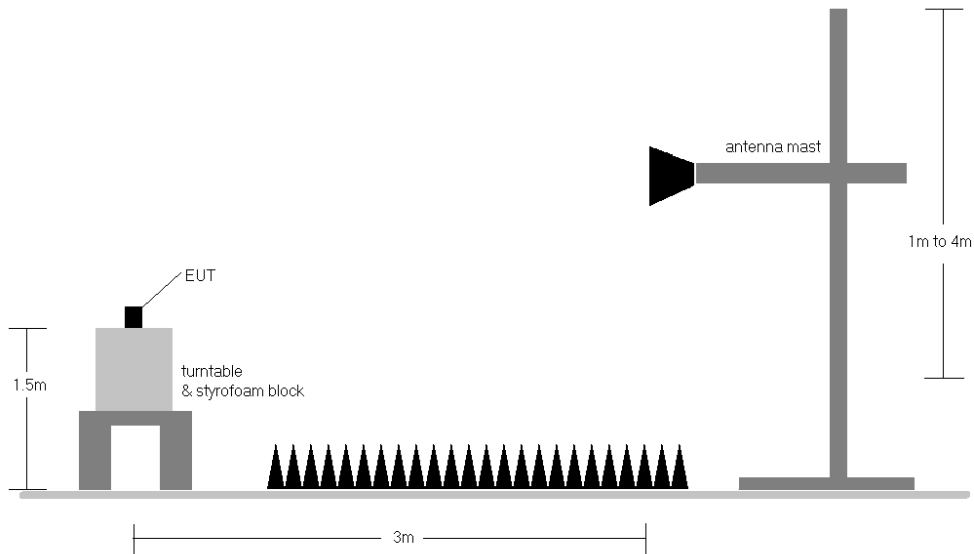


Figure 7-6. Radiated Test Setup <1GHz

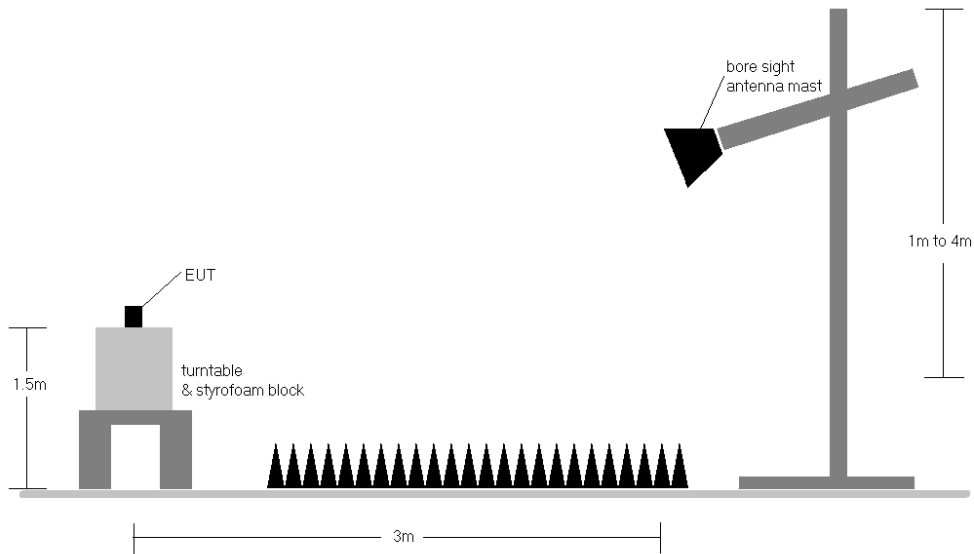


Figure 7-7. Radiated Test Setup >1GHz

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to “1”.
- 3) This unit was tested with its standard battery.
- 4) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	323	270	2.99	1 / 50	15.12	18.11	0.065	36.99	-18.88	15.96	0.039	34.77	-18.81
	QPSK	680.50	H	296	272	3.09	1 / 50	15.18	18.27	0.067	36.99	-18.72	16.12	0.041	34.77	-18.66
	QPSK	688.00	H	303	272	3.08	1 / 50	15.49	18.57	0.072	36.99	-18.42	16.42	0.044	34.77	-18.35
	16-QAM	680.50	H	296	272	3.09	1 / 50	14.78	17.87	0.061	36.99	-19.12	15.72	0.037	34.77	-19.06
15 MHz	QPSK	670.50	H	323	270	2.96	1 / 37	14.95	17.91	0.062	36.99	-19.08	15.76	0.038	34.77	-19.01
	QPSK	680.50	H	296	272	3.09	1 / 74	15.05	18.13	0.065	36.99	-18.86	15.98	0.040	34.77	-18.79
	QPSK	690.50	H	303	272	3.11	1 / 74	15.47	18.58	0.072	36.99	-18.41	16.43	0.044	34.77	-18.34
	16-QAM	680.50	H	296	272	3.09	1 / 74	14.71	17.79	0.060	36.99	-19.20	15.64	0.037	34.77	-19.13
10 MHz	QPSK	668.00	H	323	270	2.92	1 / 49	15.26	18.19	0.066	36.99	-18.80	16.04	0.040	34.77	-18.73
	QPSK	680.50	H	296	272	3.09	1 / 0	15.31	18.39	0.069	36.99	-18.60	16.24	0.042	34.77	-18.53
	QPSK	693.00	H	303	272	3.14	1 / 0	15.60	18.74	0.075	36.99	-18.25	16.59	0.046	34.77	-18.18
	16-QAM	680.50	H	296	272	3.09	1 / 25	15.03	18.12	0.065	36.99	-18.87	15.97	0.040	34.77	-18.80
5 MHz	QPSK	665.50	H	323	270	2.94	1 / 12	15.24	18.18	0.066	36.99	-18.81	16.03	0.040	34.77	-18.74
	QPSK	680.50	H	296	272	3.09	1 / 24	15.11	18.20	0.066	36.99	-18.79	16.05	0.040	34.77	-18.72
	QPSK	695.50	H	303	272	3.18	1 / 12	15.81	18.98	0.079	36.99	-18.00	16.83	0.048	34.77	-17.94
	16-QAM	680.50	H	296	272	3.09	1 / 12	15.10	18.18	0.066	36.99	-18.81	16.03	0.040	34.77	-18.74
20 MHz	WCP	688.00	H	272	261	2.99	1 / 50	15.34	18.33	0.068	36.99	-18.66	16.18	0.041	34.77	-18.59

Table 7-7. ERP Data (LTE Band 71 – Main1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	V	178	312	3.58	1 / 0	15.23	18.81	0.076	36.99	-18.18	16.66	0.046	34.77	-18.11
	QPSK	707.50	V	175	301	3.62	1 / 0	15.75	19.37	0.087	36.99	-17.62	17.22	0.053	34.77	-17.55
	QPSK	711.00	V	171	316	3.67	1 / 49	14.87	18.54	0.071	36.99	-18.45	16.39	0.044	34.77	-18.38
	16-QAM	707.50	V	175	301	3.62	1 / 0	15.13	18.75	0.075	36.99	-18.24	16.60	0.046	34.77	-18.17
5 MHz	QPSK	701.50	V	178	312	3.55	1 / 12	15.24	18.79	0.076	36.99	-18.20	16.64	0.046	34.77	-18.13
	QPSK	707.50	V	175	301	3.62	1 / 12	15.87	19.49	0.089	36.99	-17.50	17.34	0.054	34.77	-17.43
	QPSK	713.50	V	171	316	3.80	1 / 12	14.63	18.43	0.070	36.99	-18.56	16.28	0.042	34.77	-18.49
	16-QAM	707.50	V	175	301	3.62	1 / 12	15.30	18.92	0.078	36.99	-18.07	16.77	0.048	34.77	-18.00
3 MHz	QPSK	700.50	V	178	312	3.54	1 / 7	15.26	18.79	0.076	36.99	-18.19	16.64	0.046	34.77	-18.13
	QPSK	707.50	V	175	301	3.62	1 / 7	15.80	19.43	0.088	36.99	-17.56	17.28	0.053	34.77	-17.49
	QPSK	714.50	V	171	316	3.81	1 / 0	14.51	18.32	0.068	36.99	-18.67	16.17	0.041	34.77	-18.60
	16-QAM	707.50	V	175	301	3.62	1 / 7	15.02	18.64	0.073	36.99	-18.35	16.49	0.045	34.77	-18.28
1.4 MHz	QPSK	699.70	V	178	312	3.53	1 / 5	15.17	18.69	0.074	36.99	-18.29	16.54	0.045	34.77	-18.23
	QPSK	707.50	V	175	301	3.62	1 / 3	15.77	19.40	0.087	36.99	-17.59	17.25	0.053	34.77	-17.53
	QPSK	715.30	V	171	316	3.85	1 / 5	14.57	18.42	0.070	36.99	-18.57	16.27	0.042	34.77	-18.50
	16-QAM	707.50	V	175	301	3.62	1 / 5	14.90	18.52	0.071	36.99	-18.47	16.37	0.043	34.77	-18.40
10 MHz	WCP	707.50	V	244	323	3.62	1 / 49	12.00	15.62	0.037	36.99	-21.37	13.47	0.022	34.77	-21.30

Table 7-8. ERP Data (LTE Band 12/17 – Main1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	239	281	6.09	1 / 49	15.91	22.00	0.159	36.99	-14.99	19.85	0.097	34.77	-14.92
	16-QAM	782.00	H	239	281	6.09	1 / 49	15.23	21.32	0.136	36.99	-15.67	19.17	0.083	34.77	-15.60
5 MHz	QPSK	779.50	H	239	281	5.97	1 / 24	16.00	21.97	0.157	36.99	-15.02	19.82	0.096	34.77	-14.95
	QPSK	782.00	H	239	281	6.09	1 / 12	15.99	22.09	0.162	36.99	-14.90	19.94	0.099	34.77	-14.83
	QPSK	784.50	H	239	281	6.17	1 / 12	15.72	21.90	0.155	36.99	-15.09	19.75	0.094	34.77	-15.03
	16-QAM	779.50	H	239	281	5.97	1 / 12	15.45	21.42	0.139	36.99	-15.57	19.27	0.084	34.77	-15.50
10 MHz	WCP	782.00	H	224	312	6.09	1 / 49	12.25	18.34	0.068	36.99	-18.65	16.19	0.042	34.77	-18.58

Table 7-9. ERP Data (LTE Band 13 – Main1)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	nr2 BPSK	673.00	V	185	289	2.89	1 / 79	15.73	18.62	0.073	36.99	-18.37	16.47	0.044	34.77	-18.30
	nr2 BPSK	680.50	V	188	287	3.09	1 / 53	15.60	18.69	0.074	36.99	-18.30	16.54	0.045	34.77	-18.24
	nr2 BPSK	688.00	V	182	291	3.28	1 / 26	15.70	18.98	0.079	36.99	-18.01	16.83	0.048	34.77	-17.94
	QPSK	673.00	V	185	289	2.89	1 / 79	15.64	18.53	0.071	36.99	-18.46	16.38	0.043	34.77	-18.39
	QPSK	680.50	V	188	287	3.09	1 / 53	15.55	18.64	0.073	36.99	-18.35	16.49	0.045	34.77	-18.29
	QPSK	688.00	V	182	291	3.28	1 / 26	15.47	18.75	0.075	36.99	-18.24	16.60	0.046	34.77	-18.17
15 MHz	16-QAM	688.00	V	182	291	3.28	1 / 26	14.86	18.14	0.065	36.99	-18.85	15.99	0.040	34.77	-18.78
	nr2 BPSK	670.50	V	185	289	2.76	1 / 58	15.89	18.65	0.073	36.99	-18.34	16.50	0.045	34.77	-18.27
	nr2 BPSK	680.50	V	188	287	3.09	1 / 20	15.70	18.78	0.076	36.99	-18.21	16.63	0.046	34.77	-18.14
	nr2 BPSK	690.50	V	182	291	3.31	1 / 58	15.70	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.91
	QPSK	670.50	V	185	289	2.76	1 / 58	15.97	18.72	0.075	36.99	-18.27	16.57	0.045	34.77	-18.20
	QPSK	680.50	V	188	287	3.09	1 / 20	15.47	18.56	0.072	36.99	-18.43	16.41	0.044	34.77	-18.36
10 MHz	QPSK	690.50	V	182	291	3.31	1 / 58	15.60	18.91	0.078	36.99	-18.08	16.76	0.047	34.77	-18.01
	16-QAM	680.50	V	188	287	3.09	1 / 20	15.35	18.44	0.070	36.99	-18.55	16.29	0.043	34.77	-18.48
	nr2 BPSK	668.00	V	185	289	2.72	1 / 26	15.93	18.66	0.073	36.99	-18.33	16.51	0.045	34.77	-18.26
	nr2 BPSK	680.50	V	188	287	3.09	1 / 20	15.49	18.58	0.072	36.99	-18.41	16.43	0.044	34.77	-18.34
	nr2 BPSK	693.00	V	182	291	3.44	1 / 13	15.53	18.98	0.079	36.99	-18.01	16.83	0.048	34.77	-17.95
	QPSK	668.00	V	185	289	2.72	1 / 26	16.00	18.73	0.075	36.99	-18.26	16.58	0.045	34.77	-18.19
5 MHz	QPSK	680.50	V	188	287	3.09	1 / 26	15.52	18.60	0.072	36.99	-18.39	16.45	0.044	34.77	-18.32
	QPSK	693.00	V	182	291	3.44	1 / 13	15.46	18.90	0.078	36.99	-18.08	16.75	0.047	34.77	-18.02
	16-QAM	693.00	V	182	291	3.44	1 / 13	14.89	18.34	0.068	36.99	-18.65	16.19	0.042	34.77	-18.58
	nr2 BPSK	665.50	V	185	289	2.59	1 / 12	16.19	18.78	0.076	36.99	-18.21	16.63	0.046	34.77	-18.14
	nr2 BPSK	680.50	V	188	287	3.09	1 / 12	15.75	18.84	0.077	36.99	-18.15	16.69	0.047	34.77	-18.08
	nr2 BPSK	695.50	V	182	291	3.48	1 / 6	15.52	19.00	0.079	36.99	-17.99	16.85	0.048	34.77	-17.92
20 MHz	QPSK	665.50	V	185	289	2.59	1 / 12	16.15	18.74	0.075	36.99	-18.25	16.59	0.046	34.77	-18.18
	QPSK	680.50	V	188	287	3.09	1 / 12	15.61	18.69	0.074	36.99	-18.30	16.54	0.045	34.77	-18.23
	QPSK	695.50	V	182	291	3.48	1 / 6	15.29	18.77	0.075	36.99	-18.22	16.62	0.046	34.77	-18.15
	16-QAM	680.50	V	188	287	3.09	1 / 12	15.32	18.40	0.069	36.99	-18.59	16.25	0.042	34.77	-18.52
20 MHz	QPSK (WCP)	688.00	H	303	277	3.08	1 / 26	14.22	17.30	0.054	36.99	-19.69	15.15	0.033	34.77	-19.62

Table 7-10. EIRP Data (NR Band n71 – Main1)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	169	99	9.81	9.47	19.28	0.085	30.00	-10.72
1732.60	WCDMA1700	V	212	95	10.56	9.15	19.71	0.094	30.00	-10.29
1752.60	WCDMA1700	V	201	95	10.15	9.05	19.20	0.083	30.00	-10.80
1732.60	WCDMA1700 (WCP)	V	399	68	7.02	9.15	16.17	0.041	30.00	-13.83

Table 7-11. EIRP Data (WCDMA AWS – Main2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	V	145	118	9.33	1 / 50	11.72	21.05	0.127	30.00	-8.95
	QPSK	1745.00	V	153	138	9.03	1 / 99	12.25	21.28	0.134	30.00	-8.72
	QPSK	1770.00	V	102	124	9.10	1 / 99	12.41	21.51	0.142	30.00	-8.49
	16-QAM	1770.00	V	102	124	9.10	1 / 99	11.52	20.62	0.115	30.00	-9.38
15 MHz	QPSK	1717.50	V	145	118	9.38	1 / 74	11.77	21.15	0.130	30.00	-8.85
	QPSK	1745.00	V	153	138	9.03	1 / 0	12.39	21.42	0.139	30.00	-8.58
	QPSK	1772.50	V	102	124	9.11	1 / 74	12.46	21.57	0.144	30.00	-8.43
	16-QAM	1717.50	V	145	118	9.38	1 / 37	11.24	20.61	0.115	30.00	-9.39
10 MHz	QPSK	1715.00	V	145	118	9.42	1 / 25	11.76	21.18	0.131	30.00	-8.82
	QPSK	1745.00	V	153	138	9.03	1 / 49	12.57	21.60	0.145	30.00	-8.40
	QPSK	1775.00	V	102	124	9.13	1 / 25	12.64	21.77	0.150	30.00	-8.23
	16-QAM	1715.00	V	145	118	9.42	1 / 49	11.25	20.67	0.117	30.00	-9.33
5 MHz	QPSK	1712.50	V	145	118	9.47	1 / 12	11.92	21.38	0.138	30.00	-8.62
	QPSK	1745.00	V	153	138	9.03	1 / 12	12.61	21.65	0.146	30.00	-8.35
	QPSK	1777.50	V	102	124	9.15	1 / 12	12.66	21.81	0.152	30.00	-8.19
	16-QAM	1712.50	V	145	118	9.47	1 / 12	11.24	20.71	0.118	30.00	-9.29
3 MHz	QPSK	1711.50	V	145	118	9.49	1 / 14	11.81	21.30	0.135	30.00	-8.70
	QPSK	1745.00	V	153	138	9.03	1 / 7	12.57	21.60	0.145	30.00	-8.40
	QPSK	1778.50	V	102	124	9.15	1 / 7	12.52	21.67	0.147	30.00	-8.33
	16-QAM	1745.00	V	153	138	9.03	1 / 14	11.80	20.84	0.121	30.00	-9.16
1.4 MHz	QPSK	1710.70	V	145	118	9.50	1 / 5	11.88	21.38	0.137	30.00	-8.62
	QPSK	1745.00	V	153	138	9.03	1 / 3	12.61	21.64	0.146	30.00	-8.36
	QPSK	1779.30	V	102	124	9.16	1 / 0	12.64	21.80	0.151	30.00	-8.20
	16-QAM	1779.30	V	102	124	9.16	1 / 5	11.58	20.74	0.119	30.00	-9.26
20 MHz	WCP	1770.00	V	376	51	9.03	1 / 99	8.36	17.39	0.055	30.00	-12.61

Table 7-12. EIRP Data (LTE Band 66/4 – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1720.00	V	146	332	9.33	1 / 79	10.93	20.26	0.106	30.00	-9.74
	$\pi/2$ BPSK	1745.00	V	146	326	9.03	1 / 26	10.91	19.94	0.099	30.00	-10.06
	$\pi/2$ BPSK	1770.00	V	146	340	9.10	1 / 79	10.47	19.57	0.091	30.00	-10.43
	QPSK	1720.00	V	146	332	9.33	1 / 79	10.80	20.13	0.103	30.00	-9.87
	QPSK	1745.00	V	146	326	9.03	1 / 26	10.79	19.82	0.096	30.00	-10.18
	QPSK	1770.00	V	146	340	9.10	1 / 79	10.43	19.53	0.090	30.00	-10.47
15 MHz	16-QAM	1720.00	V	146	332	9.33	1 / 79	10.16	19.49	0.089	30.00	-10.51
	$\pi/2$ BPSK	1717.50	V	146	332	9.38	1 / 20	10.95	20.33	0.108	30.00	-9.67
	$\pi/2$ BPSK	1745.00	V	146	326	9.03	1 / 20	10.50	19.53	0.090	30.00	-10.47
	$\pi/2$ BPSK	1772.50	V	146	340	9.11	1 / 20	10.59	19.70	0.093	30.00	-10.30
	QPSK	1717.50	V	146	332	9.38	1 / 20	10.73	20.10	0.102	30.00	-9.90
	QPSK	1745.00	V	146	326	9.03	1 / 20	10.42	19.45	0.088	30.00	-10.55
10 MHz	QPSK	1772.50	V	146	340	9.11	1 / 20	10.68	19.80	0.095	30.00	-10.20
	16-QAM	1717.50	V	146	332	9.38	1 / 20	10.13	19.51	0.089	30.00	-10.49
	$\pi/2$ BPSK	1715.00	V	146	332	9.42	1 / 26	10.84	20.27	0.106	30.00	-9.73
	$\pi/2$ BPSK	1745.00	V	146	326	9.03	1 / 26	10.42	19.45	0.088	30.00	-10.55
	$\pi/2$ BPSK	1775.00	V	146	340	9.13	1 / 38	10.21	19.34	0.086	30.00	-10.66
	QPSK	1715.00	V	146	332	9.42	1 / 26	10.63	20.06	0.101	30.00	-9.94
5 MHz	QPSK	1745.00	V	146	326	9.03	1 / 26	10.41	19.44	0.088	30.00	-10.56
	QPSK	1775.00	V	146	340	9.13	1 / 38	10.56	19.69	0.093	30.00	-10.31
	16-QAM	1715.00	V	146	332	9.42	1 / 26	10.15	19.57	0.091	30.00	-10.43
	$\pi/2$ BPSK	1712.50	V	146	332	9.47	1 / 12	10.68	20.15	0.104	30.00	-9.85
	$\pi/2$ BPSK	1745.00	V	146	326	9.03	1 / 6	10.62	19.65	0.092	30.00	-10.35
	$\pi/2$ BPSK	1777.50	V	146	340	9.15	1 / 12	10.18	19.33	0.086	30.00	-10.67
20 MHz	QPSK	1712.50	V	146	332	9.47	1 / 12	10.38	19.85	0.097	30.00	-10.15
	QPSK	1745.00	V	146	326	9.03	1 / 6	10.11	19.14	0.082	30.00	-10.86
	QPSK	1777.50	V	146	340	9.15	1 / 12	10.56	19.71	0.094	30.00	-10.29
	16-QAM	1712.50	V	146	332	9.47	1 / 12	9.70	19.17	0.083	30.00	-10.83
	QPSK (WCP)	1720.00	V	137	33	9.47	1/104	5.06	14.53	0.028	30.00	-15.47

Table 7-13. EIRP Data (NR Band n66 – Main2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	V	149	217	3.58	1 / 49	15.58	19.16	0.082	36.99	-17.83	17.01	0.050	34.77	-17.76
	QPSK	707.50	V	149	260	3.62	1 / 25	15.19	18.81	0.076	36.99	-18.18	16.66	0.046	34.77	-18.11
	QPSK	711.00	V	149	223	3.67	1 / 25	15.44	19.11	0.081	36.99	-17.88	16.96	0.050	34.77	-17.81
	16-QAM	704.00	V	149	217	3.58	1 / 49	14.93	18.51	0.071	36.99	-18.48	16.36	0.043	34.77	-18.41
5 MHz	QPSK	701.50	V	149	217	3.55	1 / 24	15.64	19.19	0.083	36.99	-17.80	17.04	0.051	34.77	-17.73
	QPSK	707.50	V	149	260	3.62	1 / 0	15.28	18.90	0.078	36.99	-18.09	16.75	0.047	34.77	-18.02
	QPSK	713.50	V	149	223	3.80	1 / 24	15.41	19.21	0.083	36.99	-17.78	17.06	0.051	34.77	-17.71
	16-QAM	701.50	V	149	217	3.55	1 / 24	14.98	18.53	0.071	36.99	-18.46	16.38	0.043	34.77	-18.39
3 MHz	QPSK	700.50	V	149	217	3.54	1 / 7	15.63	19.16	0.082	36.99	-17.83	17.01	0.050	34.77	-17.76
	QPSK	707.50	V	149	260	3.62	1 / 7	15.38	19.00	0.079	36.99	-17.99	16.85	0.048	34.77	-17.92
	QPSK	714.50	V	149	223	3.81	1 / 14	15.20	19.01	0.080	36.99	-17.98	16.86	0.049	34.77	-17.91
	16-QAM	700.50	V	149	217	3.54	1 / 7	14.84	18.37	0.069	36.99	-18.62	16.22	0.042	34.77	-18.55
1.4 MHz	QPSK	699.70	V	149	217	3.53	1 / 3	15.59	19.11	0.082	36.99	-17.88	16.96	0.050	34.77	-17.81
	QPSK	707.50	V	149	260	3.62	1 / 5	15.13	18.75	0.075	36.99	-18.24	16.60	0.046	34.77	-18.17
	QPSK	715.30	V	149	223	3.85	1 / 3	15.36	19.21	0.083	36.99	-17.78	17.06	0.051	34.77	-17.71
	16-QAM	699.70	V	149	217	3.53	1 / 3	14.92	18.44	0.070	36.99	-18.55	16.29	0.043	34.77	-18.48
10 MHz	WCP	711.00	V	153	251	3.67	1 / 0	12.56	16.23	0.042	36.99	-20.76	14.08	0.026	34.77	-20.69

Table 7-14. ERP Data (LTE Band 12/17 – Sub)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	H	241	246	6.09	1 / 25	14.00	20.09	0.102	36.99	-16.90	17.94	0.062	34.77	-16.83
	16-QAM	782.00	H	241	246	6.09	1 / 25	13.36	19.45	0.088	36.99	-17.54	17.30	0.054	34.77	-17.47
5 MHz	QPSK	779.50	H	241	246	5.97	1 / 12	14.12	20.08	0.102	36.99	-16.91	17.93	0.062	34.77	-16.84
	QPSK	782.00	H	241	246	6.09	1 / 12	14.00	20.09	0.102	36.99	-16.90	17.94	0.062	34.77	-16.83
	QPSK	784.50	H	241	246	6.17	1 / 12	13.85	20.02	0.101	36.99	-16.97	17.87	0.061	34.77	-16.90
	16-QAM	779.50	H	241	246	5.97	1 / 12	13.36	19.32	0.086	36.99	-17.67	17.17	0.052	34.77	-17.60
10 MHz	WCP	782.00	H	359	239	6.09	1 / 25	8.28	14.37	0.027	36.99	-22.62	12.22	0.017	34.77	-22.55

Table 7-15. ERP Data (LTE Band 13 – Sub)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.00	H	153	13	9.47	1 / 0	10.60	20.07	0.102	30.00	-9.93
	QPSK	1745.00	H	182	13	9.48	1 / 99	10.83	20.31	0.107	30.00	-9.69
	QPSK	1770.00	H	159	9	9.39	1 / 99	10.25	19.64	0.092	30.00	-10.36
15 MHz	16-QAM	1745.00	H	182	13	9.48	1 / 99	10.01	19.49	0.089	30.00	-10.51
	QPSK	1717.50	H	153	13	9.49	1 / 0	10.47	19.97	0.099	30.00	-10.03
	QPSK	1745.00	H	182	13	9.48	1 / 0	10.80	20.28	0.107	30.00	-9.72
	QPSK	1772.50	H	159	9	9.36	1 / 37	9.99	19.35	0.086	30.00	-10.65
10 MHz	16-QAM	1745.00	H	182	13	9.48	1 / 0	10.08	19.56	0.090	30.00	-10.44
	QPSK	1715.00	H	153	13	9.52	1 / 25	10.70	20.22	0.105	30.00	-9.78
	QPSK	1745.00	H	182	13	9.48	1 / 25	11.06	20.54	0.113	30.00	-9.46
	QPSK	1775.00	H	159	9	9.34	1 / 25	10.29	19.63	0.092	30.00	-10.37
5 MHz	16-QAM	1745.00	H	182	13	9.48	1 / 25	10.14	19.62	0.092	30.00	-10.38
	QPSK	1712.50	H	153	13	9.54	1 / 24	10.61	20.15	0.104	30.00	-9.85
	QPSK	1745.00	H	182	13	9.48	1 / 12	10.98	20.46	0.111	30.00	-9.54
	QPSK	1777.50	H	159	9	9.31	1 / 24	10.07	19.39	0.087	30.00	-10.61
3 MHz	16-QAM	1745.00	H	182	13	9.48	1 / 12	10.06	19.54	0.090	30.00	-10.46
	QPSK	1711.50	H	153	13	9.55	1 / 0	10.70	20.25	0.106	30.00	-9.75
	QPSK	1745.00	H	182	13	9.48	1 / 7	10.97	20.45	0.111	30.00	-9.55
	QPSK	1778.50	H	159	9	9.30	1 / 0	10.22	19.52	0.090	30.00	-10.48
1.4 MHz	16-QAM	1711.50	H	153	13	9.55	1 / 0	9.98	19.53	0.090	30.00	-10.47
	QPSK	1710.70	H	153	13	9.56	1 / 5	10.62	20.18	0.104	30.00	-9.82
	QPSK	1745.00	H	182	13	9.48	1 / 0	10.81	20.29	0.107	30.00	-9.71
	QPSK	1779.30	H	159	9	9.29	1 / 3	10.03	19.32	0.086	30.00	-10.68
20 MHz	16-QAM	1710.70	H	153	13	9.56	1 / 5	9.87	19.43	0.088	30.00	-10.57
	WCP	1745.00	H	175	176	9.48	1 / 99	10.78	20.26	0.106	30.00	-9.74

Table 7-16. EIRP Data (LTE Band 66 – Sub)

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7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

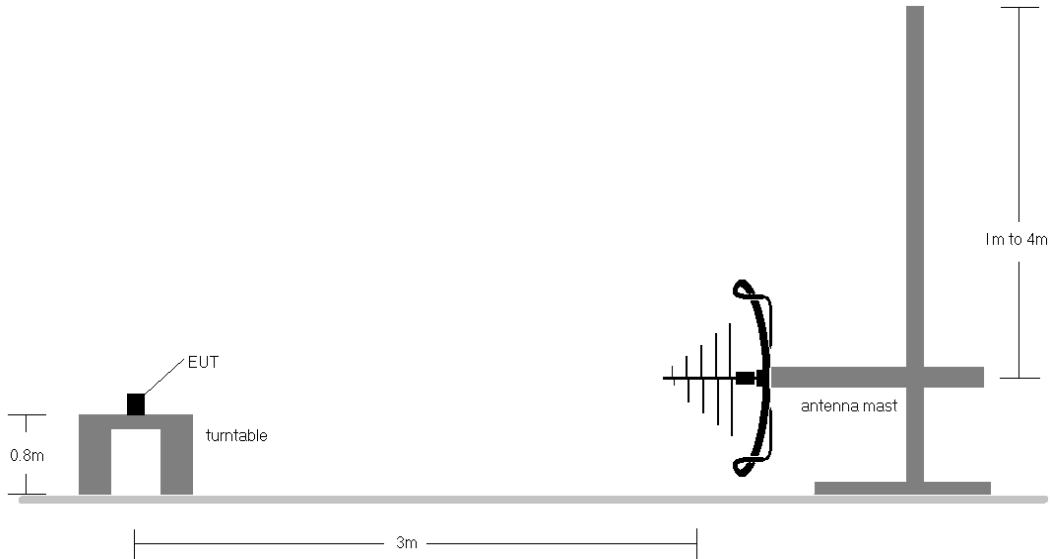


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

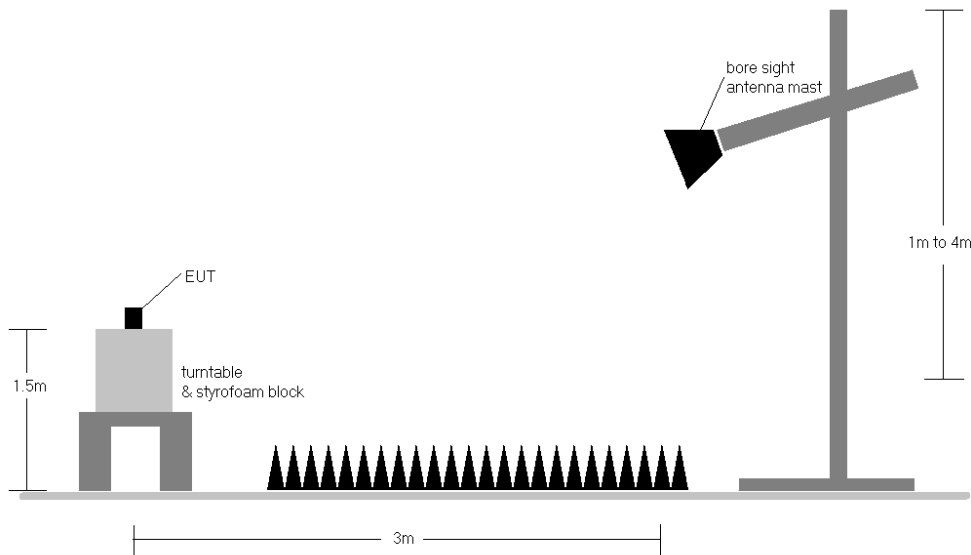


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

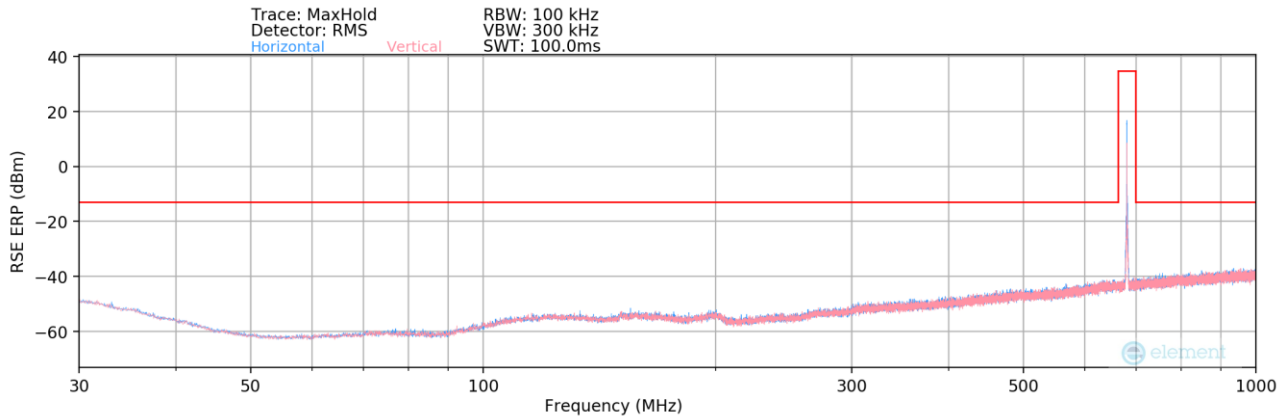
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
 - c) $\text{ERP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8 - 2.15$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) This unit was tested with its standard battery.
- 5) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 6) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 7) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.
- 9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 71 – Main1

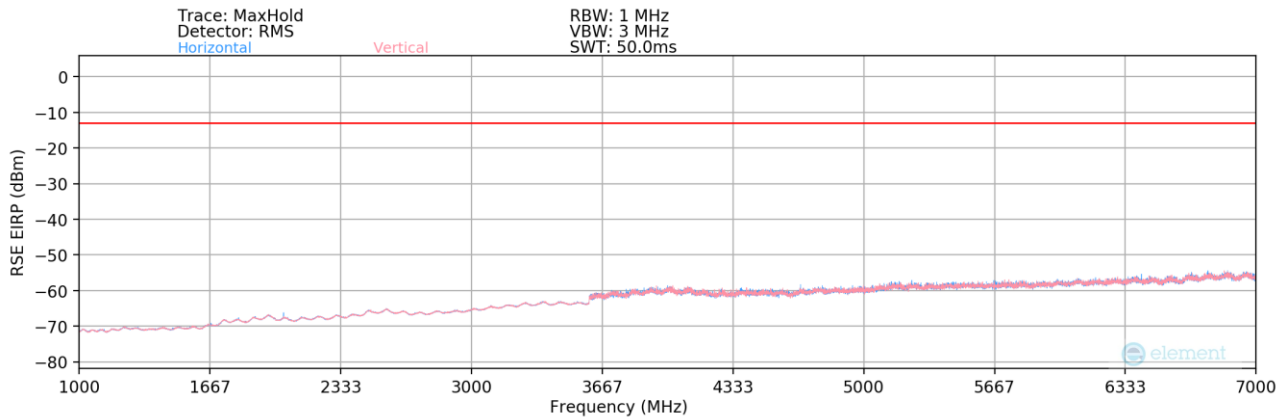


Plot 7-329. Radiated Spurious Plot 30MHz-1GHz (LTE Band 71 – Main1)

Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
587.00	H	-	-	-96.93	27.07	37.14	-60.27	-13.00	-47.27

Table 7-17. Radiated Spurious Data 30MHz-1GHz (LTE Band 71 – Mid Channel – Main1)



Plot 7-330. Radiated Spurious Plot 1-7GHz (LTE Band 71 – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 201 of 232

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	-	-	-73.68	-11.32	22.00	-73.25	-13.00	-60.25
2019.00	H	136	185	-72.01	-7.86	27.13	-68.13	-13.00	-55.13
2692.00	H	-	-	-74.91	-6.46	25.63	-69.63	-13.00	-56.63
3365.00	H	-	-	-74.14	-3.61	29.25	-66.01	-13.00	-53.01
4038.00	H	-	-	-75.56	-1.62	29.82	-65.44	-13.00	-52.44

Table 7-18. Radiated Spurious Data (LTE Band 71 – Low Channel – Main1)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-73.45	-11.34	22.21	-73.04	-13.00	-60.04
2041.50	H	144	194	-71.38	-7.87	27.75	-67.51	-13.00	-54.51
2722.00	H	-	-	-73.91	-6.58	26.51	-68.75	-13.00	-55.75
3402.50	H	-	-	-75.50	-3.67	27.83	-67.43	-13.00	-54.43
4083.00	H	-	-	-74.90	-1.85	30.25	-65.01	-13.00	-52.01

Table 7-19. Radiated Spurious Data (LTE Band 71 – Mid Channel – Main1)

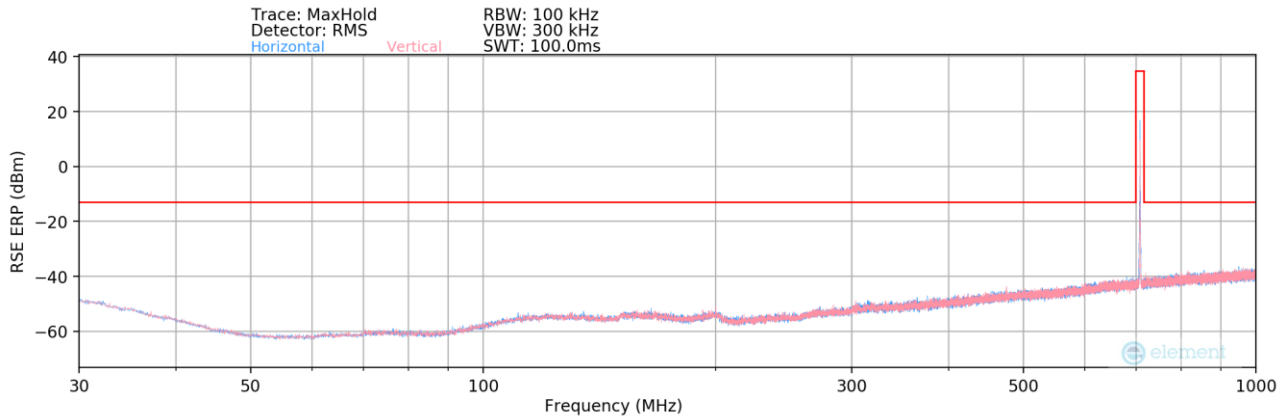
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	-	-	-73.61	-11.15	22.24	-73.02	-13.00	-60.02
2064.00	H	212	208	-71.99	-7.97	27.04	-68.21	-13.00	-55.21
2752.00	H	-	-	-74.35	-6.28	26.37	-68.88	-13.00	-55.88
3440.00	H	-	-	-74.80	-3.66	28.54	-66.71	-13.00	-53.71
4128.00	H	-	-	-75.06	-1.97	29.97	-65.28	-13.00	-52.28

Table 7-20. Radiated Spurious Data (LTE Band 71 – High Channel – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 202 of 232

LTE Band 12/17 – Main1

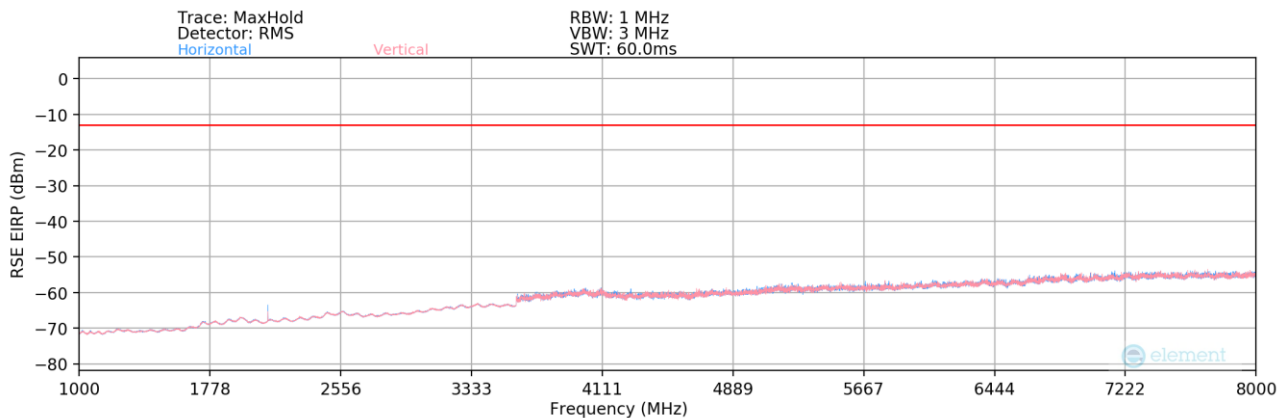


Plot 7-331. Radiated Spurious Plot 30MHz-1GHz (LTE Band 12/17 – Main1)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
481.00	V	-	-	-97.04	25.88	35.84	-61.57	-13.00	-48.57

Table 7-21. Radiated Spurious Data 30MHz-1GHz (LTE Band 12/17 – Mid Channel – Main1)



Plot 7-332. Radiated Spurious Plot 1-8GHz (LTE Band 12/17 – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 203 of 232

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	V	-	-	-73.22	-10.97	22.81	-72.45	-13.00	-59.45
2112.00	V	157	146	-60.44	-8.21	38.35	-56.91	-13.00	-43.91
2816.00	V	-	-	-73.65	-6.05	27.30	-67.96	-13.00	-54.96
3520.00	V	-	-	-74.01	-3.64	29.35	-65.91	-13.00	-52.91
4224.00	V	-	-	-74.51	-2.59	29.90	-65.35	-13.00	-52.35

Table 7-22. Radiated Spurious Data (LTE Band 12/17 – Low Channel – Main1)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	-	-	-73.13	-10.98	22.89	-72.37	-13.00	-59.37
2122.50	V	152	157	-59.65	-8.11	39.24	-56.01	-13.00	-43.01
2830.00	V	-	-	-73.58	-5.91	27.51	-67.75	-13.00	-54.75
3537.50	V	-	-	-73.61	-3.73	29.66	-65.60	-13.00	-52.60
4245.00	V	-	-	-74.67	-2.61	29.72	-65.53	-13.00	-52.53

Table 7-23. Radiated Spurious Data (LTE Band 12/17 – Mid Channel – Main1)

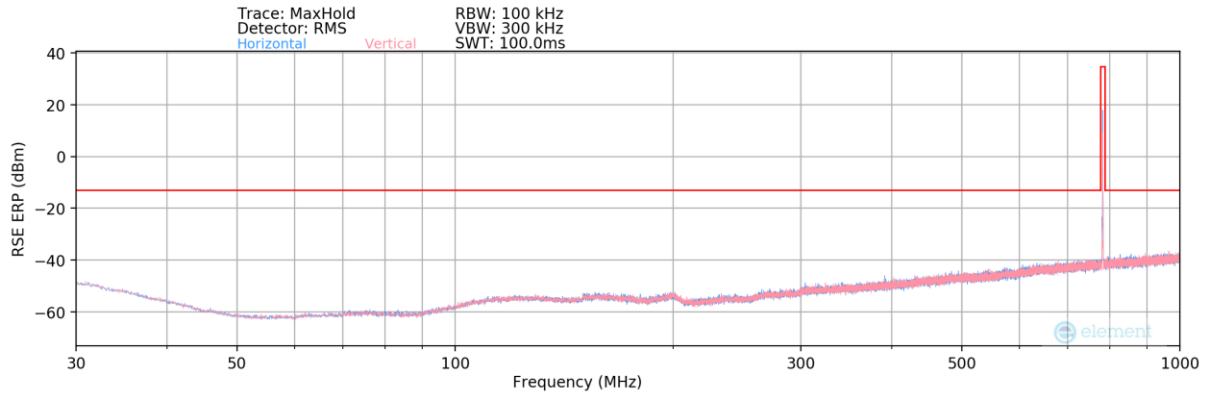
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	-	-	-73.08	-10.95	22.97	-72.29	-13.00	-59.29
2133.00	V	151	154	-59.16	-7.93	39.91	-55.35	-13.00	-42.35
2844.00	V	-	-	-74.00	-5.88	27.12	-68.13	-13.00	-55.13
3555.00	V	-	-	-73.66	-3.56	29.78	-65.48	-13.00	-52.48
4266.00	V	-	-	-73.86	-2.50	30.64	-64.62	-13.00	-51.62

Table 7-24. Radiated Spurious Data (LTE Band 12/17 – High Channel – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 204 of 232

LTE Band 13 – Main1

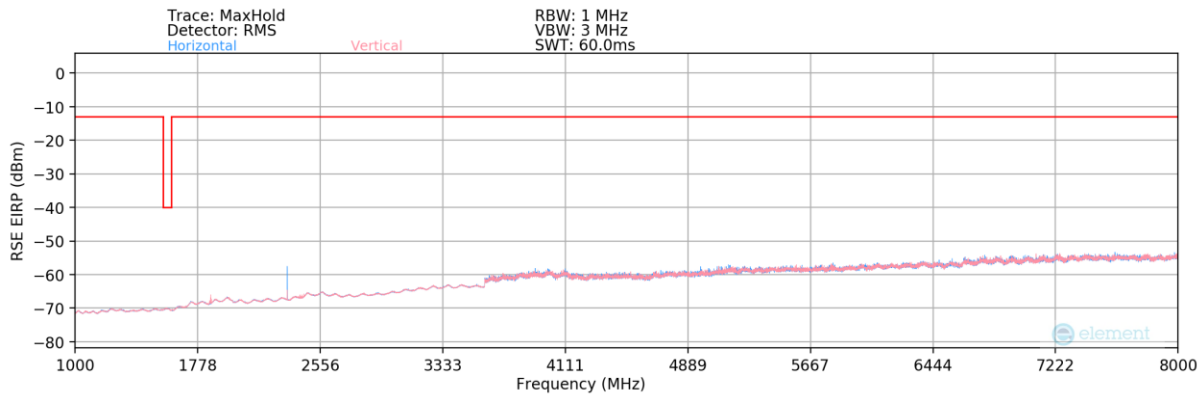


Plot 7-333. Radiated Spurious Plot 30MHz-1GHz (LTE Band 13 – Main1)

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
392.00	H	-	-	-96.94	23.33	33.39	-64.02	-13.00	-51.02

Table 7-25. Radiated Spurious Data 30MHz-1GHz (LTE Band 13 – Mid Channel – Main1)



Plot 7-334. Radiated Spurious Plot 1-8GHz (LTE Band 13 – Main1)

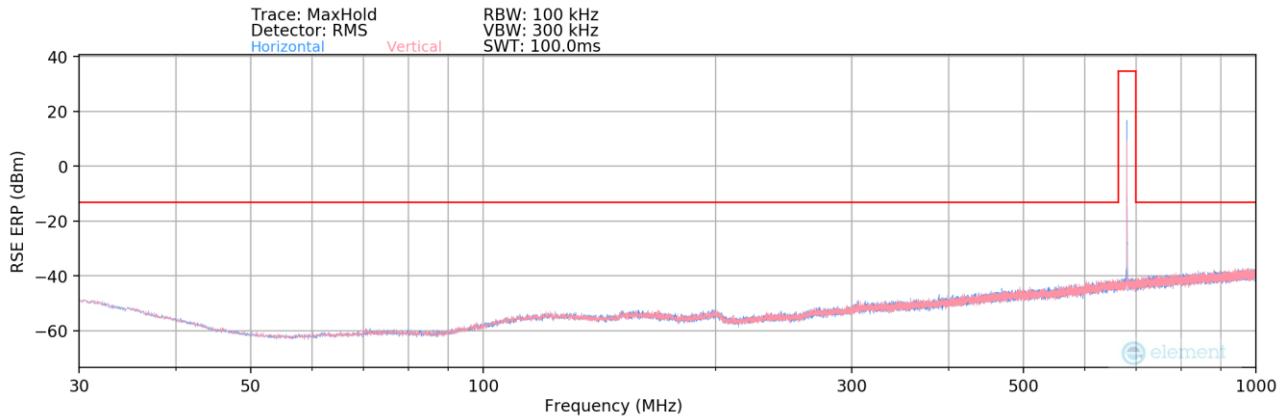
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	248	64	-72.83	-10.67	23.50	-71.75	-40.00	-31.75
2346.00	H	159	52	-58.90	-7.26	40.84	-54.42	-13.00	-41.42
3128.00	H	-	-	-74.14	-4.75	28.11	-67.15	-13.00	-54.15
3910.00	H	-	-	-73.98	-2.11	30.91	-64.35	-13.00	-51.35
4692.00	H	-	-	-74.36	-2.11	30.53	-64.72	-13.00	-51.72

Table 7-26. Radiated Spurious Data (LTE Band 13 – Mid Channel – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 205 of 232

NR Band n71 – Main1

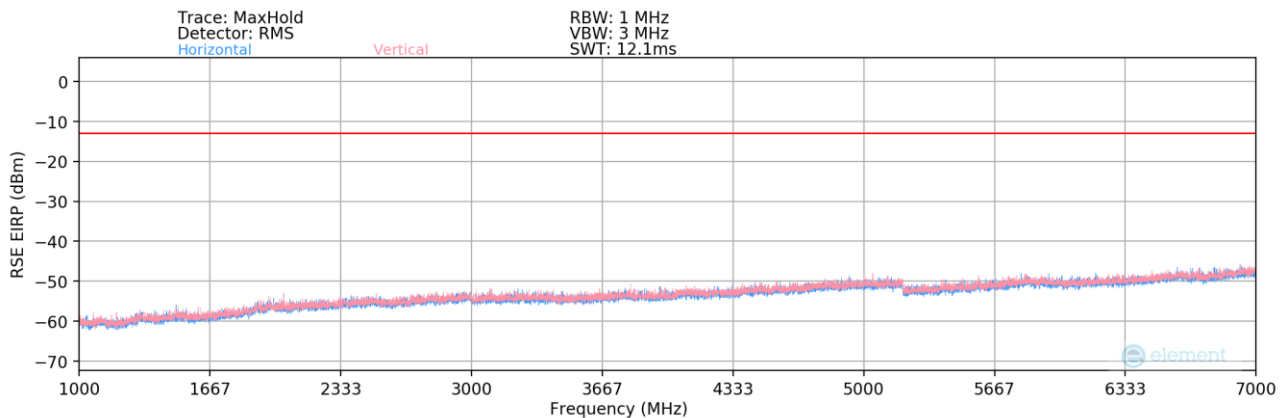


Plot 7-335. Radiated Spurious Plot 30MHz-1GHz (NR Band n71 – Main1)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
601.35	H	-	-	-97.87	27.16	36.29	-61.11	-13.00	-48.11

Table 7-27. Radiated Spurious Data 30MHz-1GHz (NR Band n71 – Mid Channel – Main1)



Plot 7-336. Radiated Spurious Plot 1-7GHz (NR Band n71 – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 206 of 232

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	-	-	-76.69	-2.11	28.20	-67.06	-13.00	-54.06
2019.00	H	150	196	-76.28	1.28	32.00	-63.26	-13.00	-50.26
2692.00	H	-	-	-77.89	3.01	32.12	-63.14	-13.00	-50.14
3365.00	H	-	-	-78.82	4.86	33.04	-62.21	-13.00	-49.21
4038.00	H	-	-	-78.81	5.17	33.36	-61.90	-13.00	-48.90

Table 7-28. Radiated Spurious Data (NR Band n71 – Low Channel – Main1)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	-	-	-76.53	-2.20	28.27	-66.99	-13.00	-53.99
2041.50	H	117	84	-76.73	1.15	31.42	-63.84	-13.00	-50.84
2722.00	H	-	-	-78.21	3.33	32.12	-63.14	-13.00	-50.14
3402.50	H	-	-	-78.59	4.60	33.01	-62.25	-13.00	-49.25
4083.00	H	-	-	-79.21	5.89	33.68	-61.58	-13.00	-48.58

Table 7-29. Radiated Spurious Data (NR Band n71 – Mid Channel – Main1)

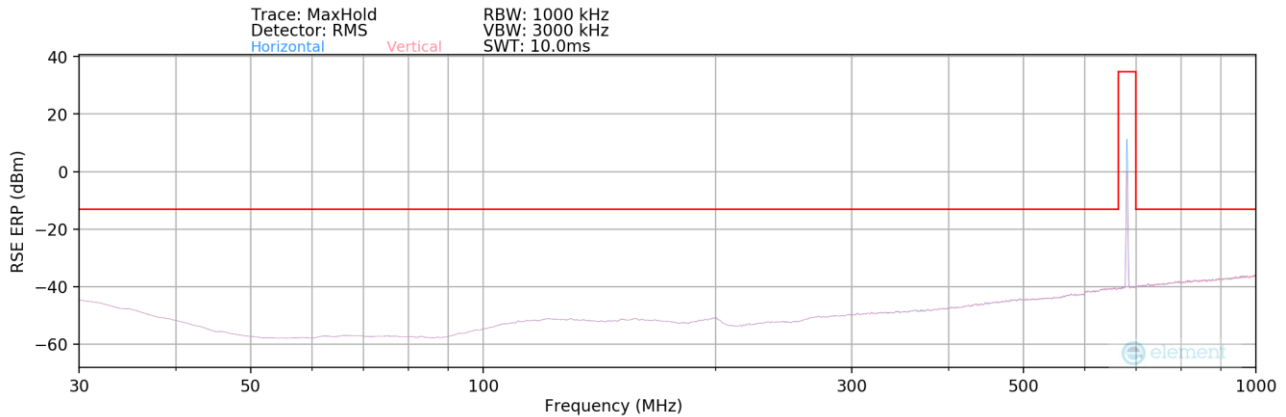
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	-	-	-76.36	-2.40	28.24	-67.02	-13.00	-54.02
2064.00	H	137	13	-76.23	0.99	31.76	-63.50	-13.00	-50.50
2752.00	H	-	-	-78.29	3.25	31.96	-63.30	-13.00	-50.30
3440.00	H	-	-	-78.62	4.51	32.89	-62.37	-13.00	-49.37
4128.00	H	-	-	-78.96	5.65	33.69	-61.57	-13.00	-48.57

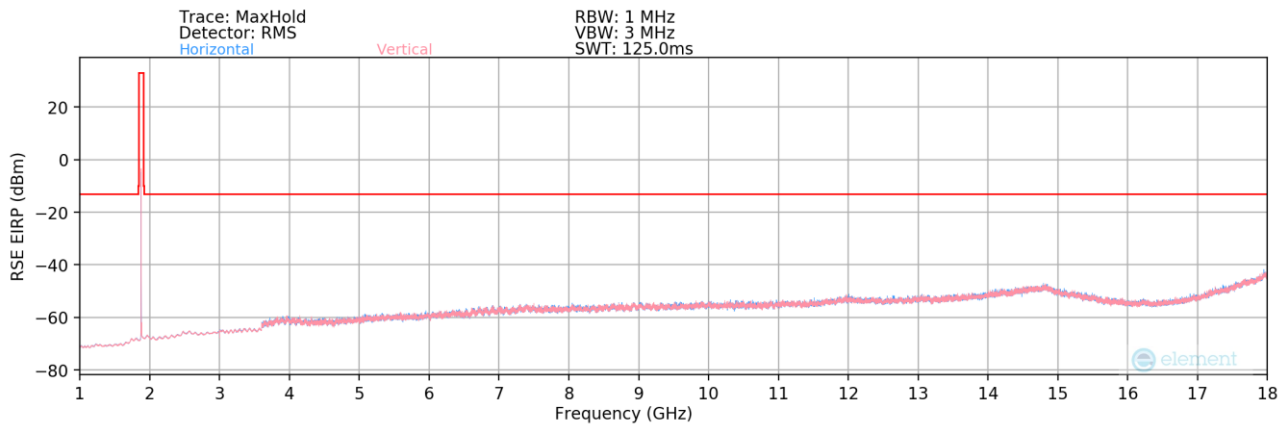
Table 7-30. Radiated Spurious Data (NR Band n71 – High Channel – Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 207 of 232

EN-DC: NR Band n71 Main1 – LTE Band 2 Main2



Plot 7-337. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n71 Main1 – LTE Band 2 Main2)



Plot 7-338. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n71 Main1 – LTE Band 2 Main2)

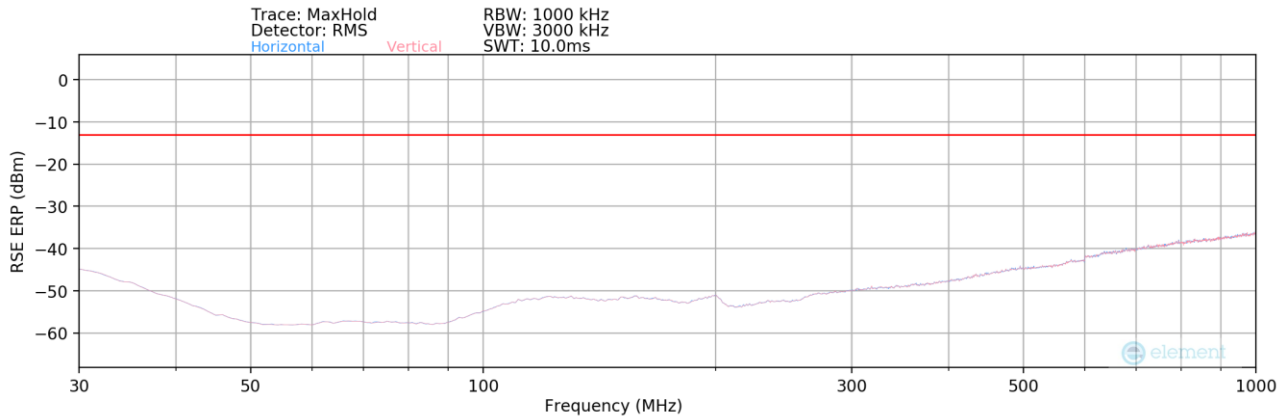
Bandwidth (MHz):	20 / 20
Frequency (MHz):	680.5 / 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
519.00	H	-	-	-90.49	26.04	42.55	-54.86	-13.00	-41.86
4440.50	H	-	-	-75.04	-1.76	30.20	-65.06	-13.00	-52.06
4602.00	H	-	-	-74.72	-2.00	30.28	-64.98	-13.00	-51.98
5478.50	H	-	-	-75.25	0.15	31.90	-63.36	-13.00	-50.36

Table 7-31. Radiated Spurious Data (EN-DC: NR Band n71 Main1 – LTE Band 2 Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 208 of 232

WCDMA AWS – Main2

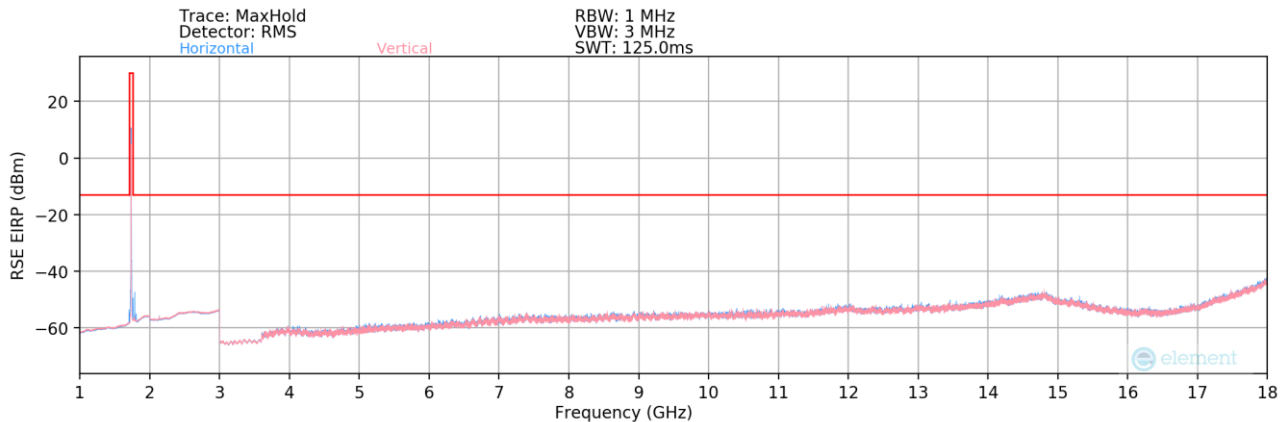


Plot 7-339. Radiated Spurious Plot 30MHz-1GHz (WCDMA AWS – Main2)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
806.98	V	-	-	-90.02	30.20	47.18	-50.23	-13.00	-37.23

Table 7-32. Radiated Spurious Data 30MHz-1GHz (WCDMA AWS – Mid Channel – Main2)



Plot 7-340. Radiated Spurious Plot 1-18GHz (WCDMA AWS – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 209 of 232

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.80	V	-	-	-74.05	-2.56	30.39	-64.87	-13.00	-51.87
5137.20	V	-	-	-74.31	-0.27	32.42	-62.83	-13.00	-49.83
6849.60	V	-	-	-75.04	2.80	34.76	-60.49	-13.00	-47.49

7-33. Radiated Spurious Data (WCDMA AWS – Low Channel – Main2)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.20	V	-	-	-73.93	-3.01	30.06	-65.20	-13.00	-52.20
5197.80	V	-	-	-74.81	-0.42	31.77	-63.49	-13.00	-50.49
6930.40	V	-	-	-75.57	3.81	35.24	-60.02	-13.00	-47.02

Table 7-34. Radiated Spurious Data (WCDMA AWS – Mid Channel – Main2)

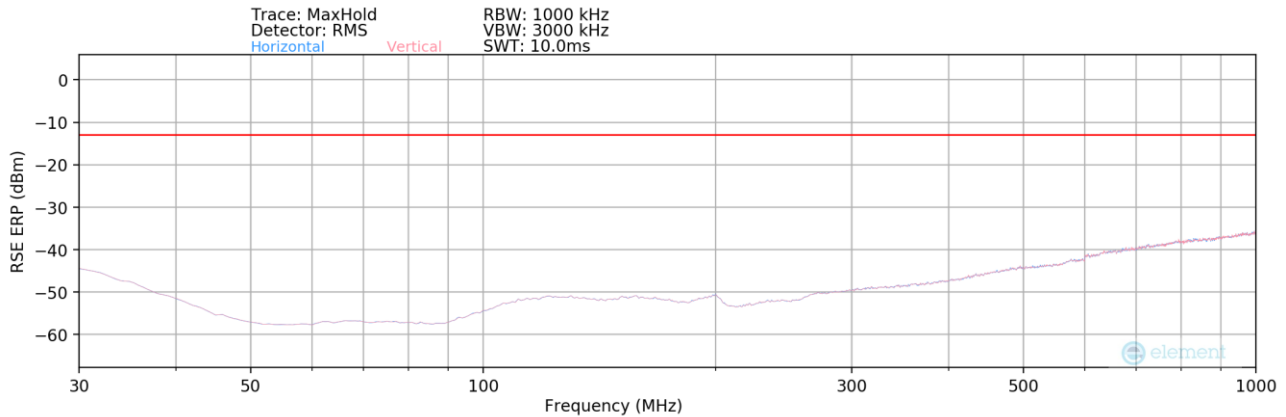
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	V	-	-	-73.74	-3.20	30.06	-65.20	-13.00	-52.20
5257.80	V	-	-	-74.21	-0.23	32.56	-62.70	-13.00	-49.70
7010.40	V	-	-	-75.57	3.81	35.24	-60.02	-13.00	-47.02

Table 7-35. Radiated Spurious Data (WCDMA AWS – High Channel – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 210 of 232

LTE Band 66/4 – Main2

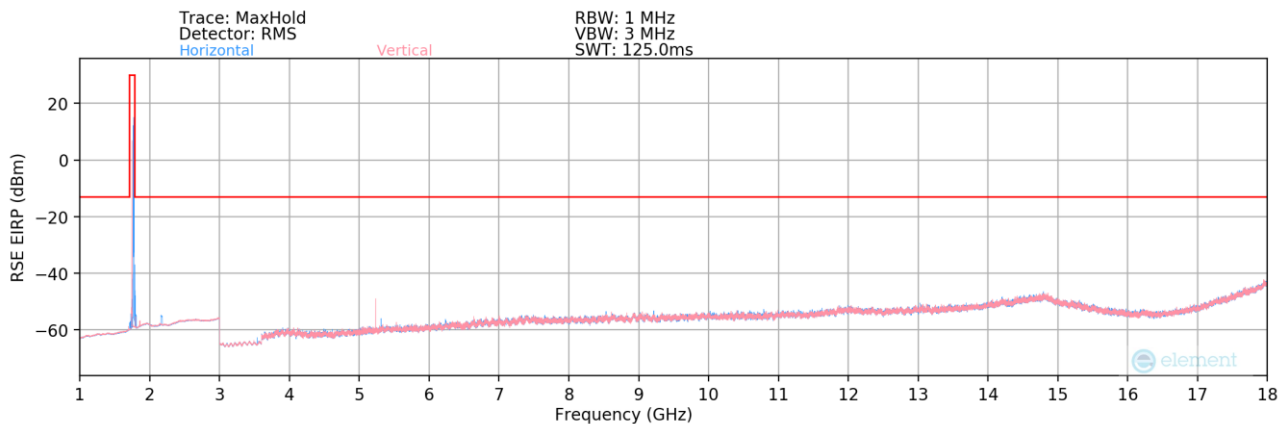


Plot 7-341. Radiated Spurious Plot 30MHz-1GHz (LTE Band 66/4 – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
677.00	V	-	-	-90.08	28.44	45.36	-52.05	-13.00	-39.05

Table 7-36. Radiated Spurious Data 30MHz-1GHz (LTE Band 66/4 – Mid Channel – Main2)



Plot 7-342. Radiated Spurious Plot 1-18GHz (LTE Band 66/4 – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 211 of 232

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-73.41	-2.60	30.99	-64.26	-13.00	-51.26
5160.00	V	198	88	-61.56	-0.32	45.12	-50.13	-13.00	-37.13
6880.00	V	-	-	-75.58	3.25	34.67	-60.59	-13.00	-47.59
8600.00	V	-	-	-76.77	6.08	36.31	-58.95	-13.00	-45.95
10320.00	V	-	-	-77.97	8.02	37.05	-58.21	-13.00	-45.21

Table 7-37. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-73.42	-3.19	30.39	-64.87	-13.00	-51.87
5235.00	V	193	85	-59.67	-0.23	47.10	-48.16	-13.00	-35.16
6980.00	V	-	-	-76.88	3.92	34.04	-61.22	-13.00	-48.22
8725.00	V	-	-	-76.51	5.79	36.28	-58.98	-13.00	-45.98
10470.00	V	-	-	-78.13	8.08	36.95	-58.31	-13.00	-45.31

Table 7-38. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Main2)

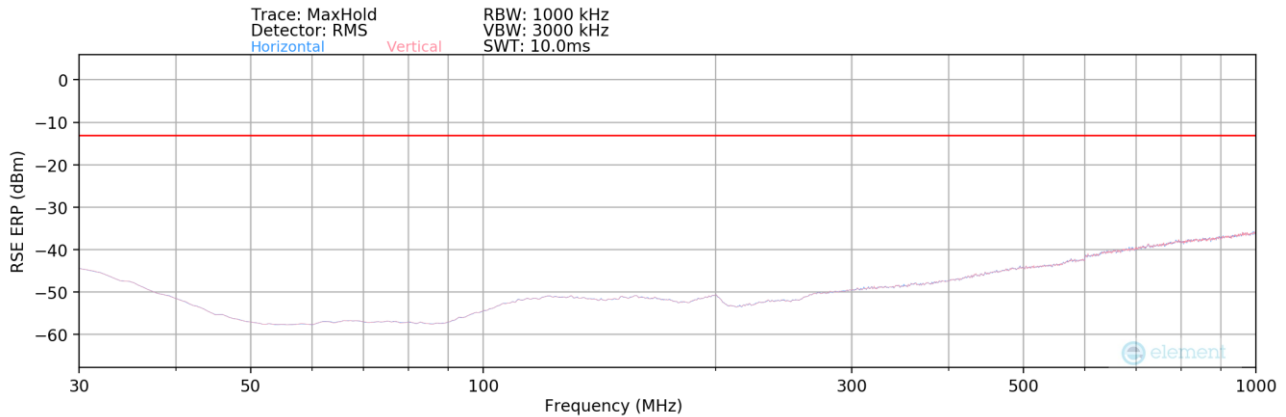
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-74.36	-2.80	29.84	-65.42	-13.00	-52.42
5310.00	V	184	83	-61.09	0.12	46.03	-49.23	-13.00	-36.23
7080.00	V	-	-	-75.51	3.60	35.09	-60.17	-13.00	-47.17
8850.00	V	-	-	-76.89	6.08	36.19	-59.07	-13.00	-46.07
10620.00	V	-	-	-78.03	8.10	37.07	-58.19	-13.00	-45.19

Table 7-39. Radiated Spurious Data (LTE Band 66/4 – High Channel – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 212 of 232

NR Band n66 – Main2

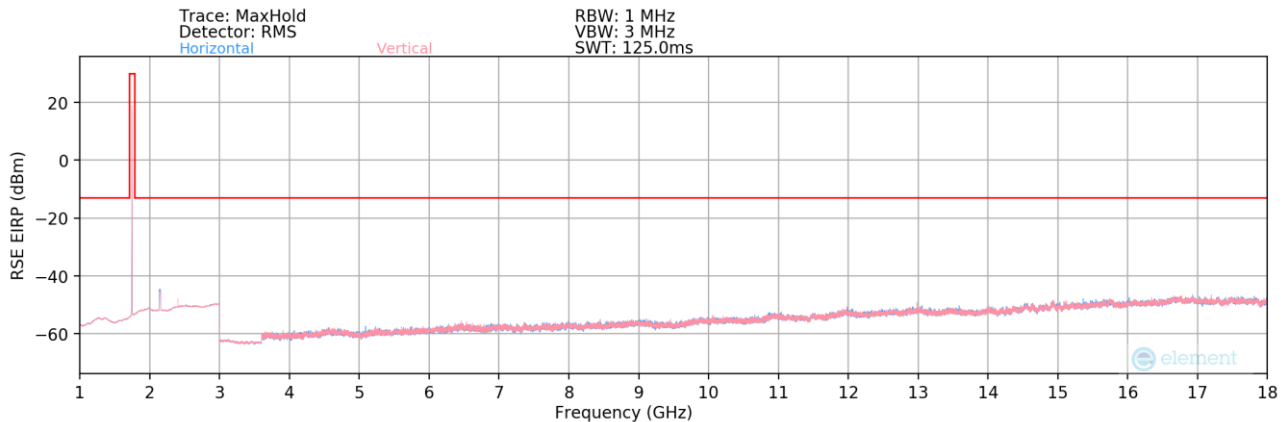


Plot 7-343. Radiated Spurious Plot 30MHz-1GHz (NR Band n66 – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
605.00	V	-	-	-89.91	26.92	44.01	-53.40	-13.00	-40.40

Table 7-40. Radiated Spurious Data 30MHz-1GHz (NR Band n66 – Mid Channel – Main2)



Plot 7-344. Radiated Spurious Plot 1-18GHz (NR Band n66 – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 213 of 232

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	132	327	-76.96	14.77	44.81	-50.45	-13.00	-37.45
5160.00	V	309	315	-76.26	17.27	48.01	-47.24	-13.00	-34.24
6880.00	V	-	-	-80.03	20.00	46.97	-48.29	-13.00	-35.29
8600.00	V	-	-	-80.92	21.67	47.75	-47.50	-13.00	-34.50
10320.00	V	-	-	-81.16	23.97	49.81	-45.45	-13.00	-32.45

Table 7-41. Radiated Spurious Data (NR Band n66 – Low Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	291	31	-76.58	14.37	44.79	-50.47	-13.00	-37.47
5235.00	V	138	360	-69.04	17.20	55.16	-40.10	-13.00	-27.10
6980.00	V	-	-	-79.08	19.25	47.17	-48.08	-13.00	-35.08
8725.00	V	-	-	-80.57	21.48	47.91	-47.35	-13.00	-34.35
10470.00	V	-	-	-82.04	25.02	49.98	-45.28	-13.00	-32.28

Table 7-42. Radiated Spurious Data (NR Band n66 – Mid Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 53

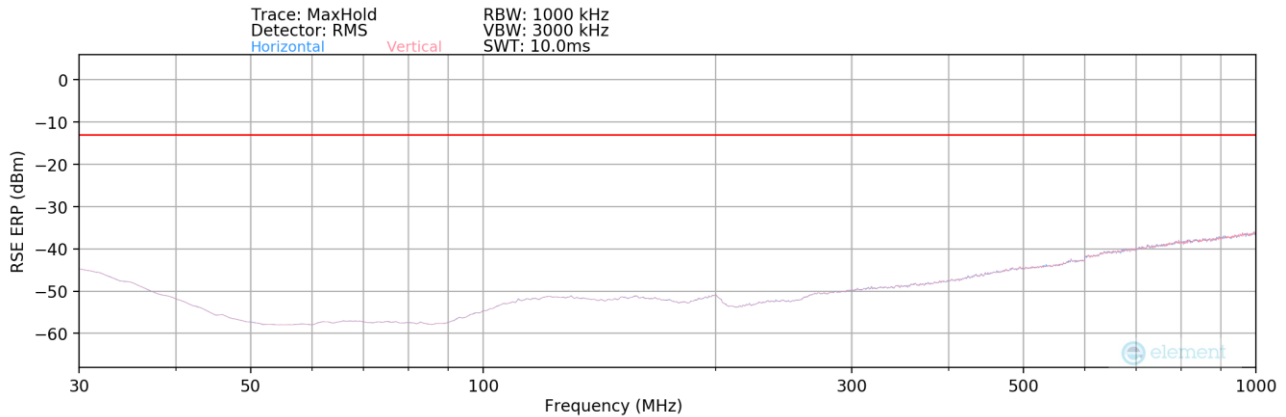
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	133	33	-76.10	14.34	45.24	-50.02	-13.00	-37.02
5310.00	V	353	328	-76.16	17.08	47.92	-47.33	-13.00	-34.33
7080.00	V	-	-	-79.22	19.71	47.49	-47.77	-13.00	-34.77
8850.00	V	-	-	-80.11	21.63	48.52	-46.74	-13.00	-33.74
10620.00	V	-	-	-81.90	24.97	50.07	-45.18	-13.00	-32.18

Table 7-43. Radiated Spurious Data (NR Band n66 – High Channel – Main2)

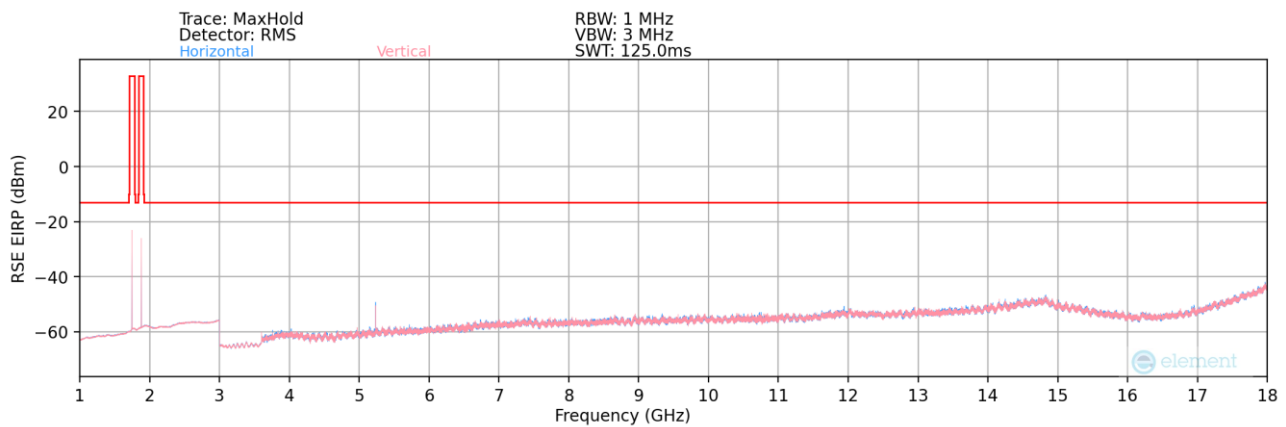
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 214 of 232



EN-DC: NR Band n66 Main2 – LTE Band 2 Sub



Plot 7-345. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n66 Main2 – LTE Band 2 Sub)



Plot 7-346. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n66 Main2 – LTE Band 2 Sub)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	1745 / 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	Band 2

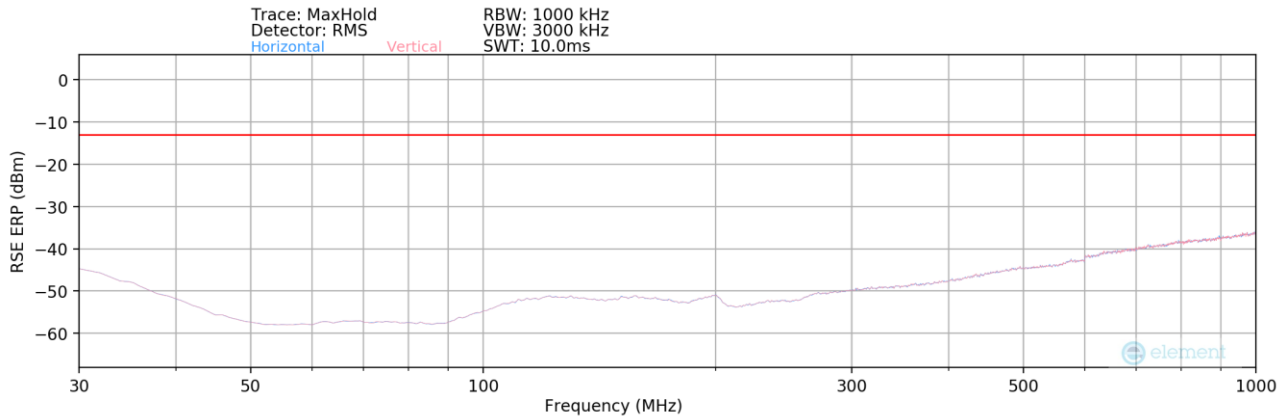
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
540.00	H	-	-	-90.25	26.36	43.11	-54.30	-13.00	-41.30
5370.00	H	-	-	-75.19	0.16	31.97	-63.29	-13.00	-50.29
5775.00	H	-	-	-75.29	0.46	32.17	-63.09	-13.00	-50.09
5910.00	H	-	-	-75.45	0.69	32.24	-63.02	-13.00	-50.02

Table 7-44. Radiated Spurious Data (EN-DC: NR Band n66 Main2 – LTE Band 2 Sub)

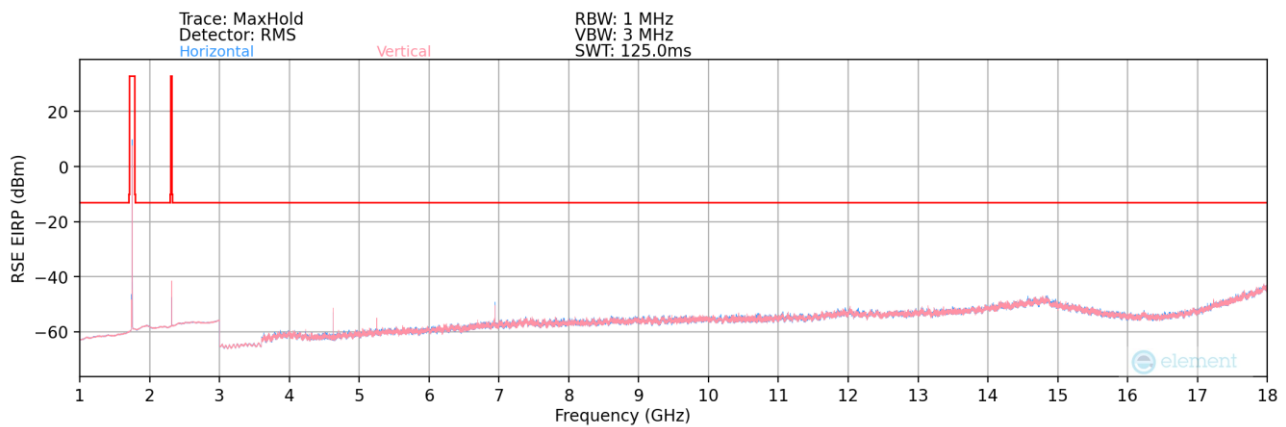
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 215 of 232



EN-DC: NR Band n66 Main2 – LTE Band 30 Sub



Plot 7-347. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n66 Main2 – LTE Band 30 Sub)



Plot 7-348. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n66 Main2 – LTE Band 30 Sub)

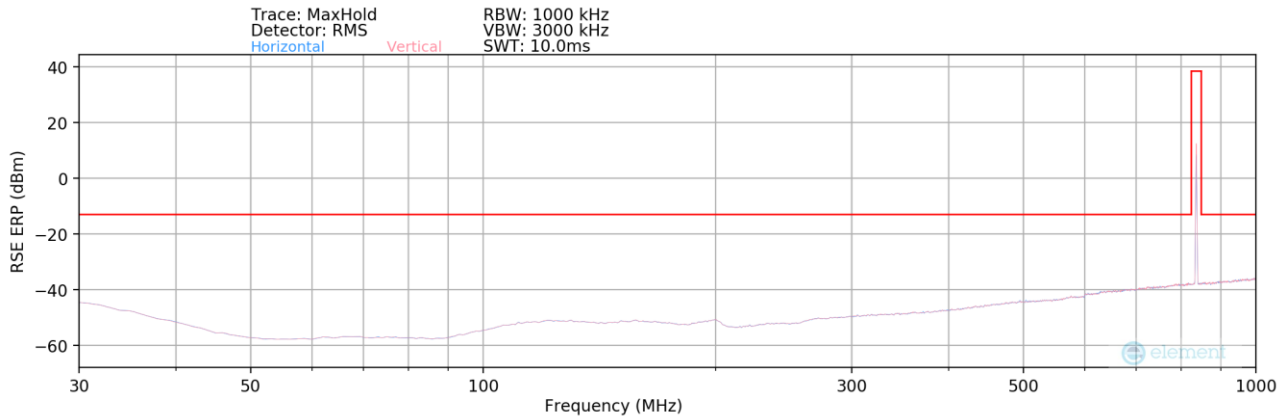
Bandwidth (MHz):	20 / 10
Frequency (MHz):	1745 / 2310
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
615.00	V	-	-	-90.52	27.13	43.61	-51.65	-13.00	-38.65
4670.00	V	-	-	-74.51	-2.01	30.48	-64.78	-13.00	-51.78
5800.00	V	-	-	-75.05	0.53	32.48	-62.78	-13.00	-49.78
7495.00	V	-	-	-75.55	3.96	35.41	-59.85	-13.00	-46.85

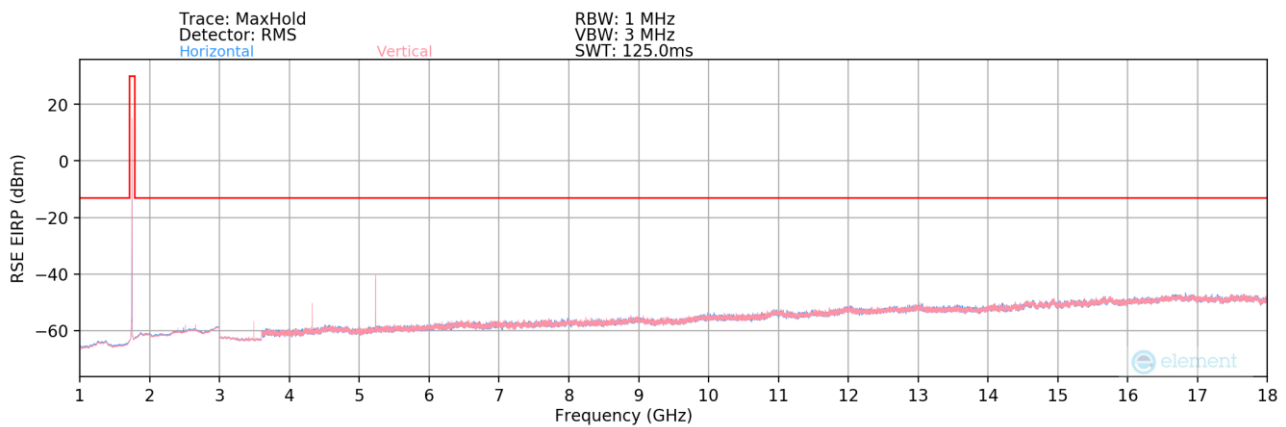
Table 7-45. Radiated Spurious Data (EN-DC: NR Band n66 Main2 – LTE Band 30 Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 216 of 232

EN-DC: NR Band n66 Main2 – LTE Band 5 Main1



Plot 7-349. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n66 Main2 – LTE Band 5 Main1)



Plot 7-350. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n66 Main2 – LTE Band 5 Main1)

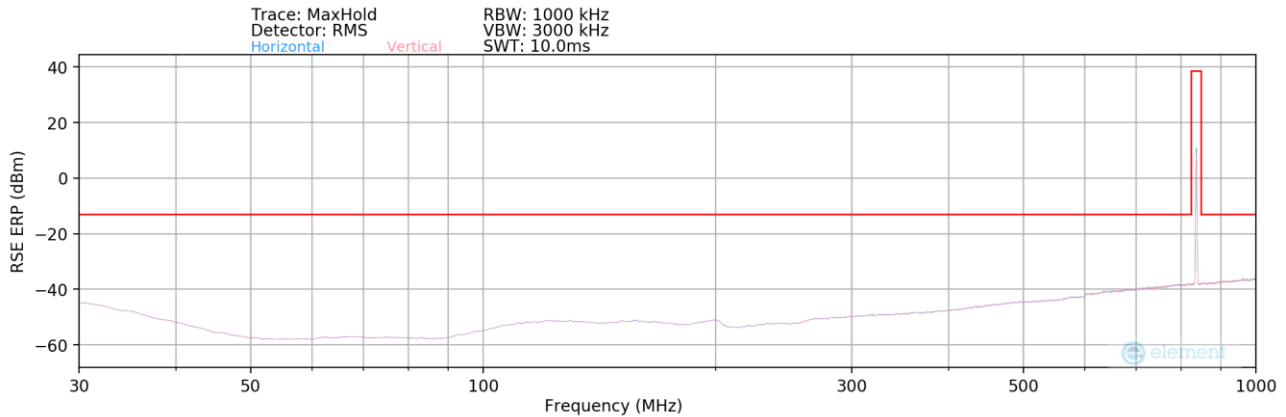
Bandwidth (MHz):	20 / 10
Frequency (MHz):	1745 / 836.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
692.50	V	-	-	-90.02	28.74	45.72	-51.69	-13.00	-38.69
2437.50	V	-	-	-78.03	0.28	29.25	-66.01	-13.00	-53.01
2509.50	V	148	105	-71.02	0.48	36.46	-58.80	-13.00	-45.80
2653.50	V	193	118	-73.93	1.36	34.43	-60.82	-13.00	-47.82
3490.00	V	282	19	-72.28	2.29	37.01	-58.25	-13.00	-45.25
4326.50	V	267	21	-67.82	3.12	42.30	-52.96	-13.00	-39.96
5235.00	V	356	359	-58.91	4.65	52.74	-42.52	-13.00	-29.52

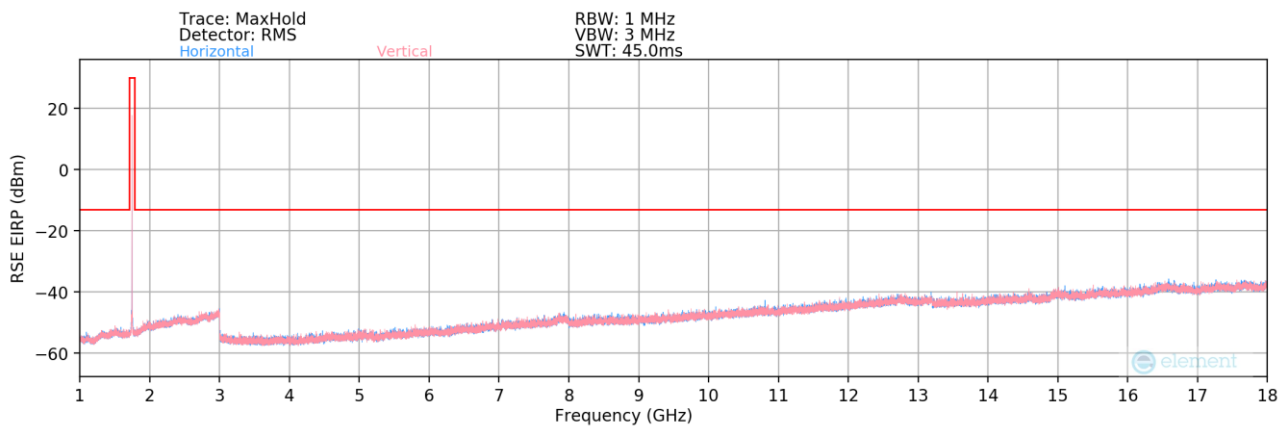
Table 7-46. Radiated Spurious Data (EN-DC: NR Band n66 Main2 – LTE Band 5 Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 217 of 232

EN-DC: NR Band n66 Main2 – LTE Band 5 Sub



Plot 7-351. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n66 Main2 – LTE Band 5 Sub)



Plot 7-352. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n66 Main2 – LTE Band 5 Sub)

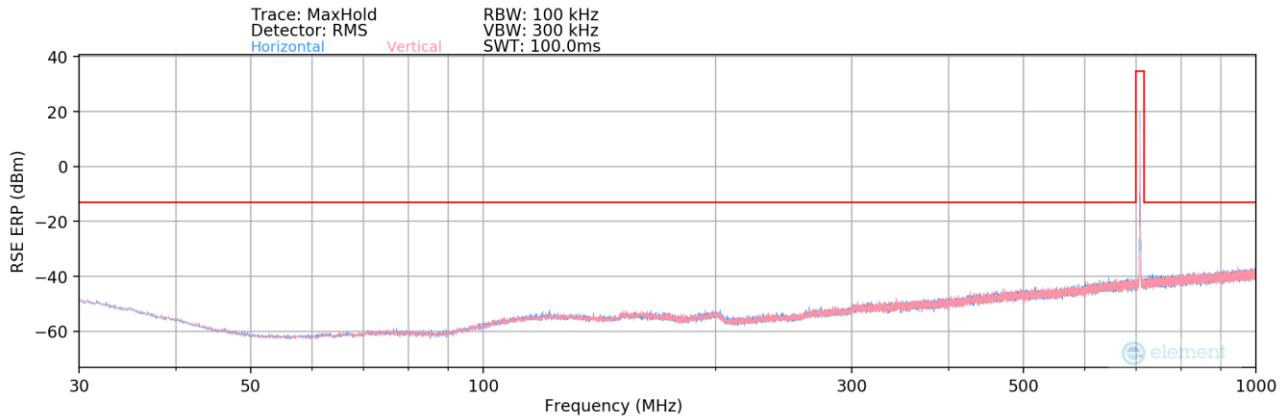
Bandwidth (MHz):	20 / 10
Frequency (MHz):	1745 / 836.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
216.00	H	-	-	-90.60	17.47	33.87	-63.53	-13.00	-50.53
3085.00	H	-	-	-75.64	5.16	36.52	-58.74	-13.00	-45.74
3355.00	H	-	-	-76.35	5.30	35.95	-59.31	-13.00	-46.31
5370.00	H	-	-	-77.20	8.23	38.03	-57.23	-13.00	-44.23
6845.00	H	-	-	-76.56	11.63	42.07	-53.19	-13.00	-40.19

Table 7-47. Radiated Spurious Data (EN-DC: NR Band n66 Main2 – LTE Band 5 Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1-PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 218 of 232

LTE Band 12/17 – Sub

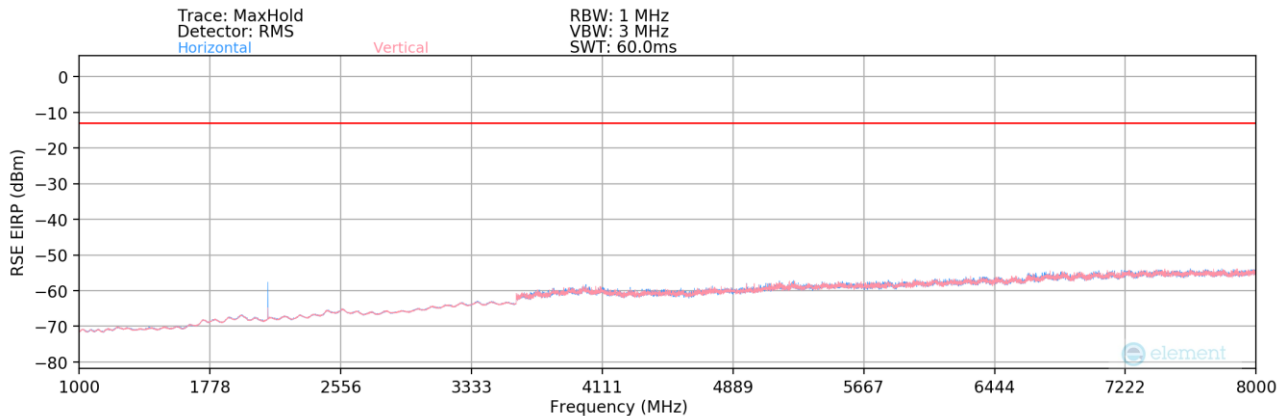


Plot 7-353. Radiated Spurious Plot 30MHz-1GHz (LTE Band 12/17 – Sub)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
652.00	H	-	-	-90.64	28.18	44.54	-52.86	-13.00	-39.86

Table 7-48. Radiated Spurious Data 30MHz-1GHz (LTE Band 12/17 – Mid Channel – Sub)



Plot 7-354. Radiated Spurious Plot 1-8GHz (LTE Band 12/17 – Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 219 of 232

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	H	155	168	-73.45	-10.97	22.58	-72.68	-13.00	-59.68
2112.00	H	197	178	-61.75	-8.21	37.04	-58.22	-13.00	-45.22
2816.00	H	-	-	-74.14	-6.05	26.81	-68.45	-13.00	-55.45
3520.00	H	-	-	-74.15	-3.64	29.21	-66.05	-13.00	-53.05
4224.00	H	-	-	-74.37	-2.59	30.04	-65.21	-13.00	-52.21

Table 7-49. Radiated Spurious Data (LTE Band 12/17 – Low Channel – Sub)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	H	197	154	-72.57	-10.98	23.45	-71.81	-13.00	-58.81
2122.50	H	137	171	-67.47	-8.11	31.42	-63.83	-13.00	-50.83
2830.00	H	-	-	-74.03	-5.91	27.06	-68.20	-13.00	-55.20
3537.50	H	-	-	-74.12	-3.73	29.15	-66.11	-13.00	-53.11
4245.00	H	-	-	-74.66	-2.61	29.73	-65.52	-13.00	-52.52

Table 7-50. Radiated Spurious Data (LTE Band 12/17 – Mid Channel – Sub)

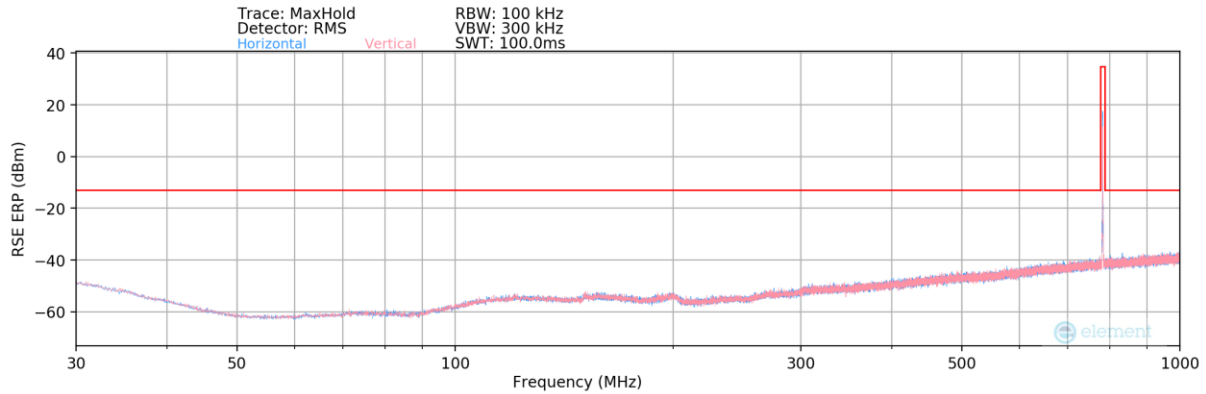
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	H	341	146	-72.97	-10.95	23.08	-72.18	-13.00	-59.18
2133.00	H	262	188	-63.90	-7.93	35.17	-60.09	-13.00	-47.09
2844.00	H	-	-	-74.05	-5.88	27.07	-68.18	-13.00	-55.18
3555.00	H	-	-	-74.25	-3.56	29.19	-66.07	-13.00	-53.07
4266.00	H	-	-	-75.02	-2.50	29.48	-65.78	-13.00	-52.78

Table 7-51. Radiated Spurious Data (LTE Band 12/17 – High Channel – Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 220 of 232

LTE Band 13 – Sub

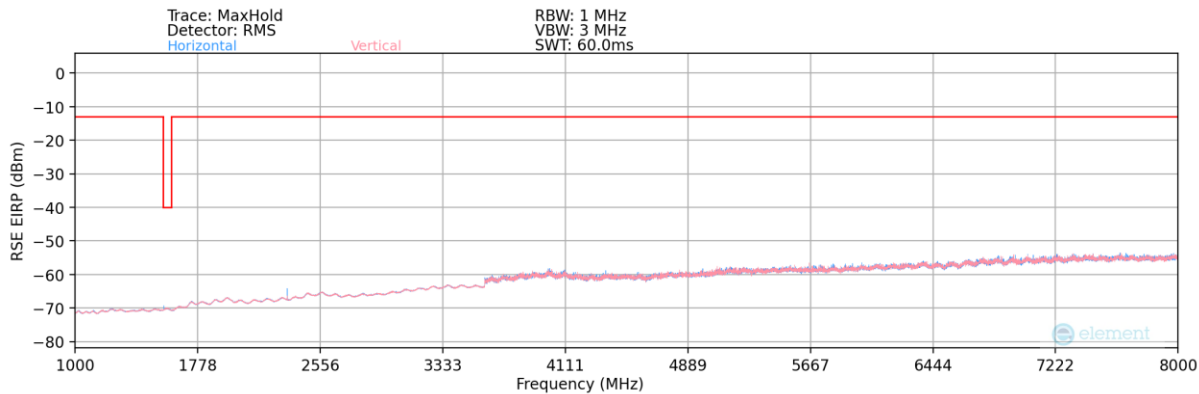


Plot 7-355. Radiated Spurious Plot 30MHz-1GHz (LTE Band 13 – Sub)

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
309.00	H	-	-	-97.19	21.32	31.13	-66.28	-13.00	-53.28

Table 7-52. Radiated Spurious Data 30MHz-1GHz (LTE Band 13 – Mid Channel – Sub)



Plot 7-356. Radiated Spurious Plot 1-8GHz (LTE Band 13 – Sub)

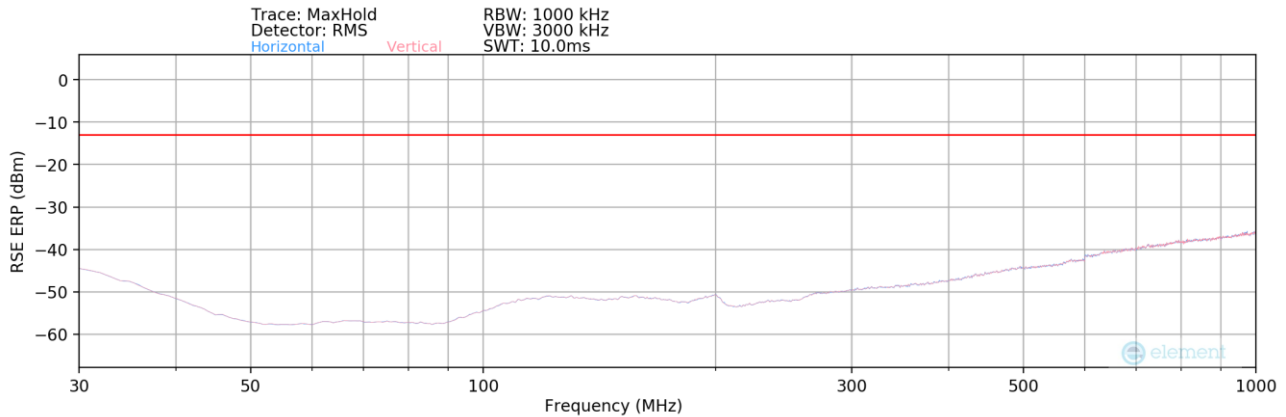
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	124	175	-71.79	-10.67	24.54	-70.71	-40.00	-30.71
2346.00	H	129	178	-68.87	-7.26	30.87	-64.39	-13.00	-51.39
3128.00	H	-	-	-72.93	-4.75	29.32	-65.94	-13.00	-52.94
3910.00	H	-	-	-73.74	-2.11	31.15	-64.11	-13.00	-51.11
4692.00	H	-	-	-73.89	-2.11	31.00	-64.25	-13.00	-51.25

Table 7-53. Radiated Spurious Data (LTE Band 13 – Mid Channel – Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 221 of 232

LTE Band 66 – Sub

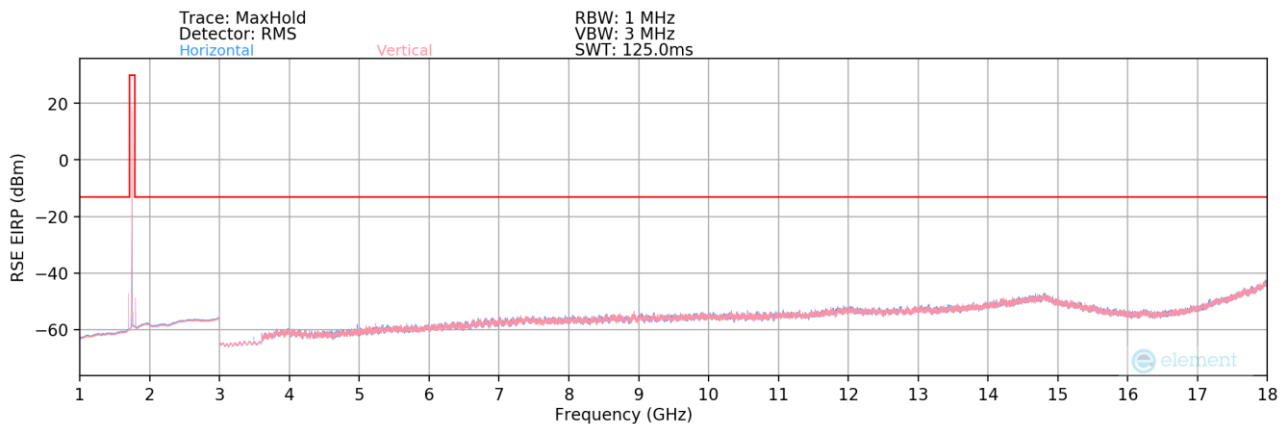


Plot 7-357. Radiated Spurious Plot 30MHz-1GHz (LTE Band 66 – Sub)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
586.00	H	-	-	-90.04	27.12	44.08	-53.33	-13.00	-40.33

Table 7-54. Radiated Spurious Data 30MHz-1GHz (LTE Band 66 – Mid Channel – Sub)



Plot 7-358. Radiated Spurious Plot 1-18GHz (LTE Band 66 – Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-03-R1.PY7	Test Dates: 02/14/2023 - 04/05/2023	EUT Type: Portable Handset	Page 222 of 232

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	148	97	-69.53	-2.60	34.87	-60.38	-13.00	-47.38
5160.00	H	275	323	-70.36	-0.32	36.32	-58.93	-13.00	-45.93
6880.00	H	-	-	-75.68	3.25	34.57	-60.69	-13.00	-47.69
8600.00	H	-	-	-76.81	6.08	36.27	-58.99	-13.00	-45.99
10320.00	H	-	-	-78.51	8.02	36.51	-58.75	-13.00	-45.75

Table 7-55. Radiated Spurious Data (LTE Band 66 – Low Channel – Sub)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	125	97	-69.39	-3.19	34.42	-60.84	-13.00	-47.84
5235.00	H	263	14	-69.44	-0.23	37.33	-57.93	-13.00	-44.93
6980.00	H	-	-	-75.95	3.92	34.97	-60.29	-13.00	-47.29
8725.00	H	-	-	-76.76	5.79	36.03	-59.23	-13.00	-46.23
10470.00	H	-	-	-78.27	8.08	36.81	-58.45	-13.00	-45.45

Table 7-56. Radiated Spurious Data (LTE Band 66 – Mid Channel – Sub)

Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	109	77	-69.94	-2.80	34.26	-61.00	-13.00	-48.00
5310.00	H	127	352	-73.94	0.12	33.18	-62.08	-13.00	-49.08
7080.00	H	-	-	-75.56	3.60	35.04	-60.22	-13.00	-47.22
8850.00	H	-	-	-76.95	6.08	36.13	-59.13	-13.00	-46.13
10620.00	H	-	-	-78.30	8.10	36.80	-58.46	-13.00	-45.46

Table 7-57. Radiated Spurious Data (LTE Band 66 – High Channel – Sub)

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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature varies from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage varies from 85% to 115% of the nominal value for non-hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

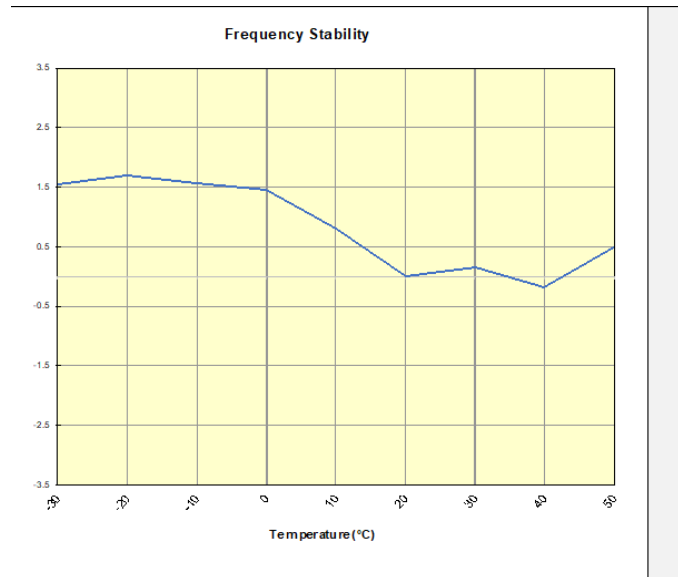
None.

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Frequency Stability / Temperature Variation

LTE Band 71					
		Operating Frequency (Hz):		680,500,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	680,501,230	1,055	0.0001551
		- 20	680,501,328	1,153	0.0001695
		- 10	680,501,242	1,068	0.0001569
		0	680,501,159	985	0.0001447
		+ 10	680,500,723	549	0.0000806
		+ 20 (Ref)	680,500,175	0	0.0000000
		+ 30	680,500,284	110	0.0000161
		+ 40	680,500,053	-121	-0.0000178
Battery Endpoint	3.69	+ 50	680,500,501	326	0.0000479
		+ 20	680,500,642	467	0.0000686

Table 7-58. LTE Band 71 Frequency Stability Data



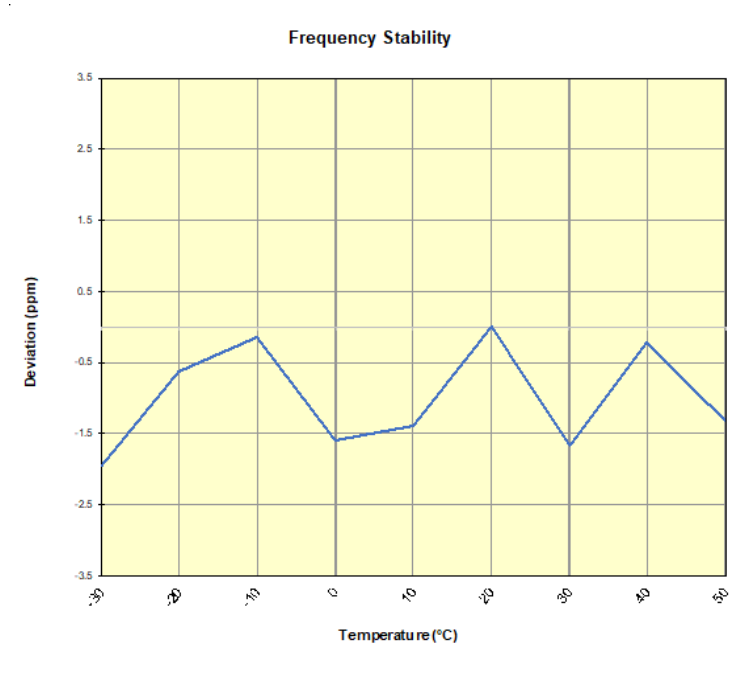
Plot 7-359. LTE Band 71 Frequency Stability Chart

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Frequency Stability / Temperature Variation

LTE Band 12/17					
		Operating Frequency (Hz):		707,500,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	707,500,061	-1,376	-0.0001945
		- 20	707,500,997	-439	-0.0000621
		- 10	707,501,331	-106	-0.0000149
		0	707,500,311	-1,126	-0.0001591
		+ 10	707,500,449	-987	-0.0001395
		+ 20 (Ref)	707,501,437	0	0.0000000
		+ 30	707,500,255	-1,182	-0.0001671
		+ 40	707,501,285	-152	-0.0000215
		+ 50	707,500,508	-929	-0.0001313
Battery Endpoint	3.69	+ 20	707,500,257	-1,180	-0.0001667

Table 7-59. LTE Band 12/17 Frequency Stability Data



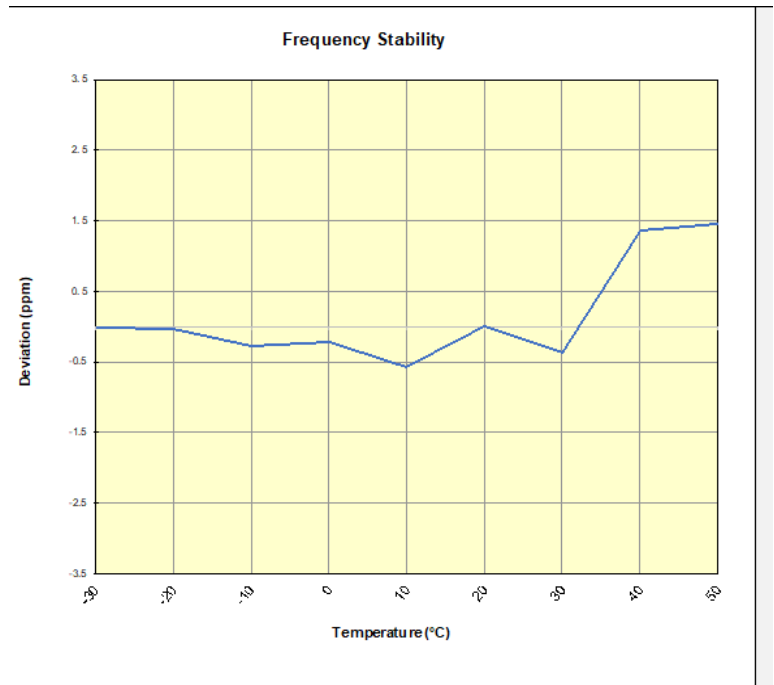
Plot 7-360. LTE Band 12/17 Frequency Stability Chart

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Frequency Stability / Temperature Variation

LTE Band 13					
		Operating Frequency (Hz):		782,000,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	782,000,892	-13	-0.000017
		- 20	782,000,880	-25	-0.000032
		- 10	782,000,689	-216	-0.0000276
		0	782,000,735	-170	-0.0000217
		+ 10	782,000,461	-444	-0.0000568
		+ 20 (Ref)	782,000,905	0	0.0000000
		+ 30	782,000,613	-292	-0.0000374
		+ 40	782,001,965	1,060	0.0001355
Battery Endpoint	3.69	+ 50	782,002,040	1,135	0.0001451
		+ 20	781,999,895	-1,010	-0.0001291

Table 7-60. LTE Band 13 Frequency Stability Data



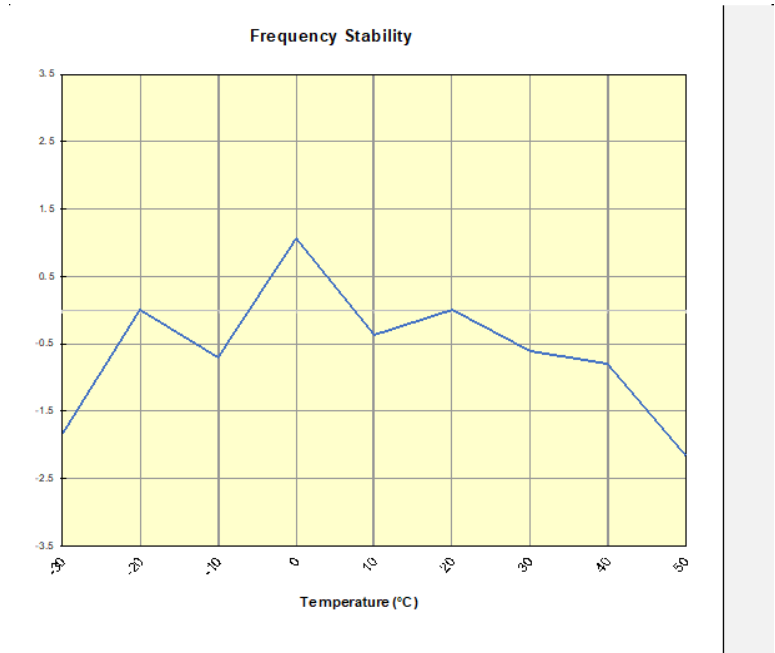
Plot 7-361. LTE Band 13 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n71					
		Operating Frequency (Hz):		680,500,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	680,493,218	-1,236	-0.0001817
		- 20	680,494,462	8	0.0000011
		- 10	680,493,973	-481	-0.0000707
		0	680,495,176	721	0.0001059
		+ 10	680,494,209	-246	-0.0000362
		+ 20 (Ref)	680,494,455	0	0.0000000
		+ 30	680,494,037	-418	-0.0000615
		+ 40	680,493,917	-538	-0.0000790
Battery Endpoint	3.69	+ 50	680,492,987	-1,467	-0.0002157
		+ 20	680,493,689	-766	-0.0001125

Table 7-61. NR Band n71 Frequency Stability Data



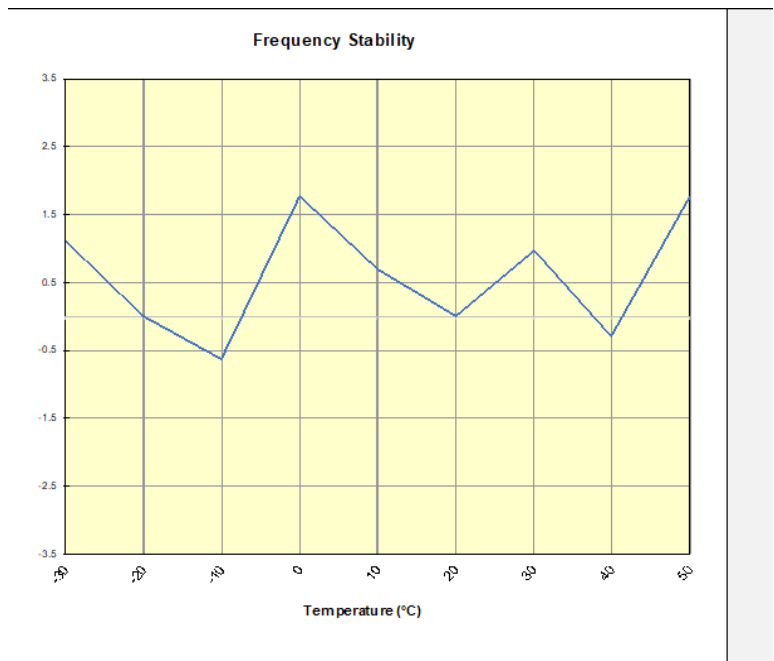
Plot 7-362. NR Band n71 Frequency Stability Chart

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

WCDMA AWS					
		Operating Frequency (Hz):		1,732,600,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	1,732,600,960	1,919	0.0001108
		- 20	1,732,599,039	-2	-0.0000001
		- 10	1,732,597,964	-1,077	-0.0000622
		0	1,732,602,117	3,076	0.0001775
		+ 10	1,732,600,237	1,196	0.0000690
		+ 20 (Ref)	1,732,599,041	0	0.0000000
		+ 30	1,732,600,710	1,669	0.0000963
		+ 40	1,732,598,533	-508	-0.0000293
		+ 50	1,732,602,082	3,041	0.0001755
Battery Endpoint	3.69	+ 20	1,732,597,991	-1,050	-0.0000606

Table 7-62. WCDMA AWS Frequency Stability Data



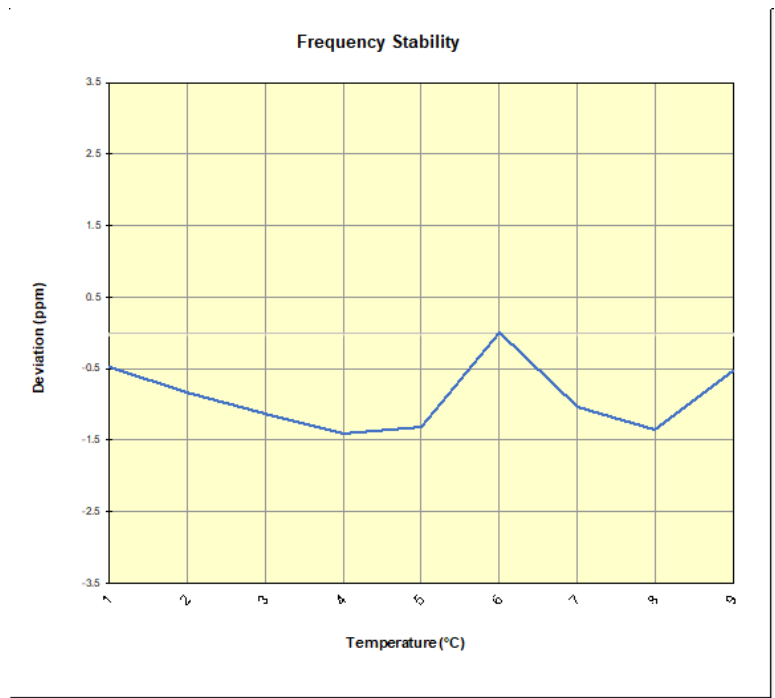
Plot 7-363. WCDMA AWS Frequency Stability Chart

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Frequency Stability / Temperature Variation

LTE Band 66/4					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	1,745,001,934	-847	-0.0000485
		- 20	1,745,001,316	-1,464	-0.0000839
		- 10	1,745,000,815	-1,965	-0.0001126
		0	1,745,000,333	-2,447	-0.0001402
		+ 10	1,745,000,479	-2,302	-0.0001319
		+ 20 (Ref)	1,745,002,780	0	0.0000000
		+ 30	1,745,000,958	-1,822	-0.0001044
		+ 40	1,745,000,425	-2,355	-0.0001350
		+ 50	1,745,001,853	-927	-0.0000531
Battery Endpoint	3.69	+ 20	1,745,000,831	-1,949	-0.0001117

Table 7-63. LTE Band 66/4 Frequency Stability Data



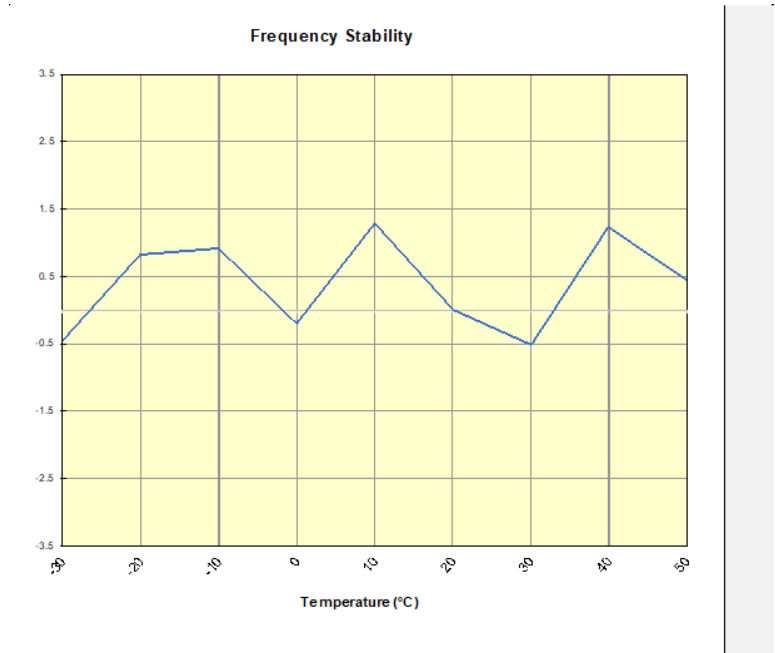
Plot 7-364. LTE Band 66/4 Frequency Stability Chart

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Frequency Stability / Temperature Variation

NR Band n66					
		Operating Frequency (Hz):		1,745,000,000	
		Ref. Voltage (VDC):		4.28	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
100 %	4.28	- 30	1,744,992,443	-759	-0.0000435
		- 20	1,744,994,639	1,437	0.0000823
		- 10	1,744,994,809	1,606	0.0000921
		0	1,744,992,840	-363	-0.0000208
		+ 10	1,744,995,464	2,262	0.0001296
		+ 20 (Ref)	1,744,993,203	0	0.0000000
		+ 30	1,744,992,286	-916	-0.0000525
		+ 40	1,744,995,338	2,135	0.0001224
		+ 50	1,744,993,986	783	0.0000449
Battery Endpoint	3.69	+ 20	1,744,991,754	-1,449	-0.0000830

Table 7-64. NR Band n66 Frequency Stability Data



Plot 7-365. NR Band n66 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7-84558E** complies with all the requirements of Part 27 of the FCC rules.

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