

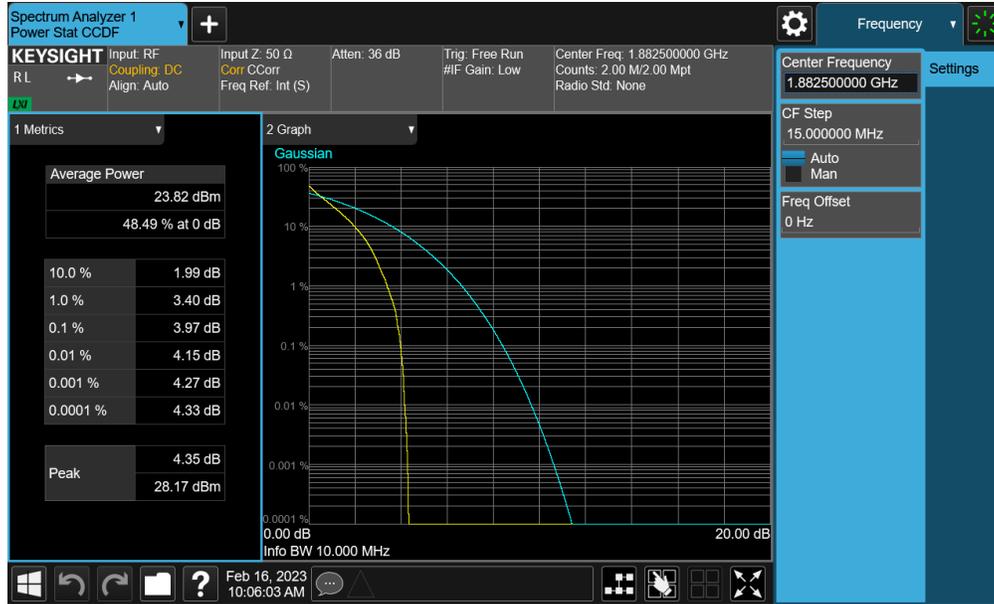


Plot 7-203. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - Main2)

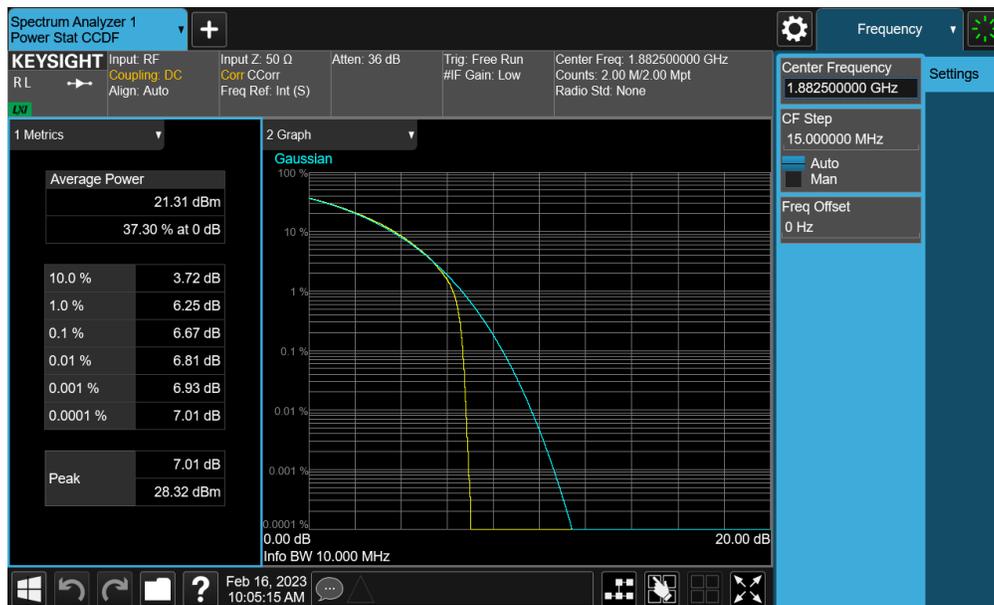


Plot 7-204. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 122 of 160



Plot 7-205. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Main2)



Plot 7-206. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 123 of 160

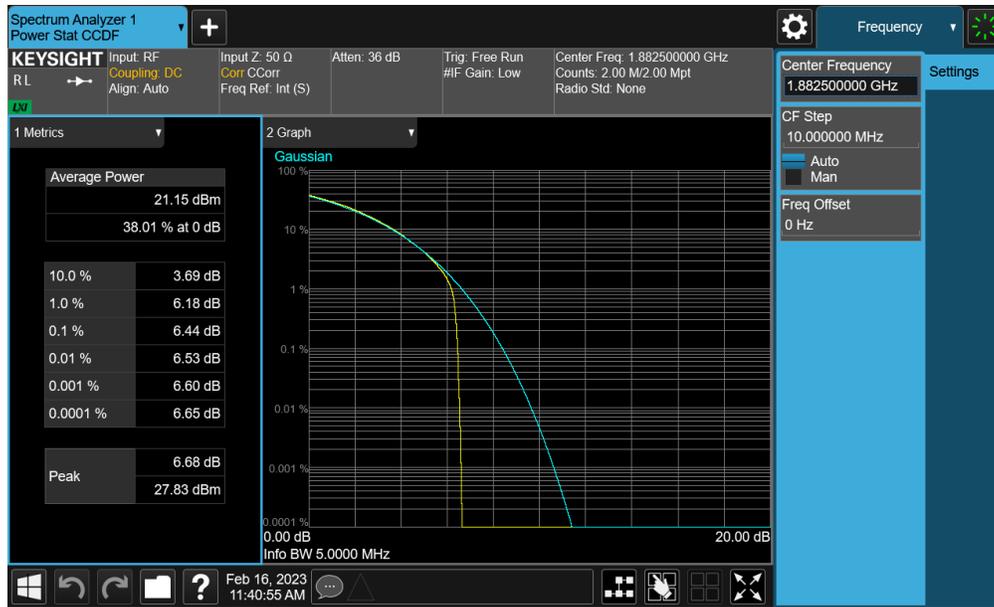


Plot 7-207. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - Main2)

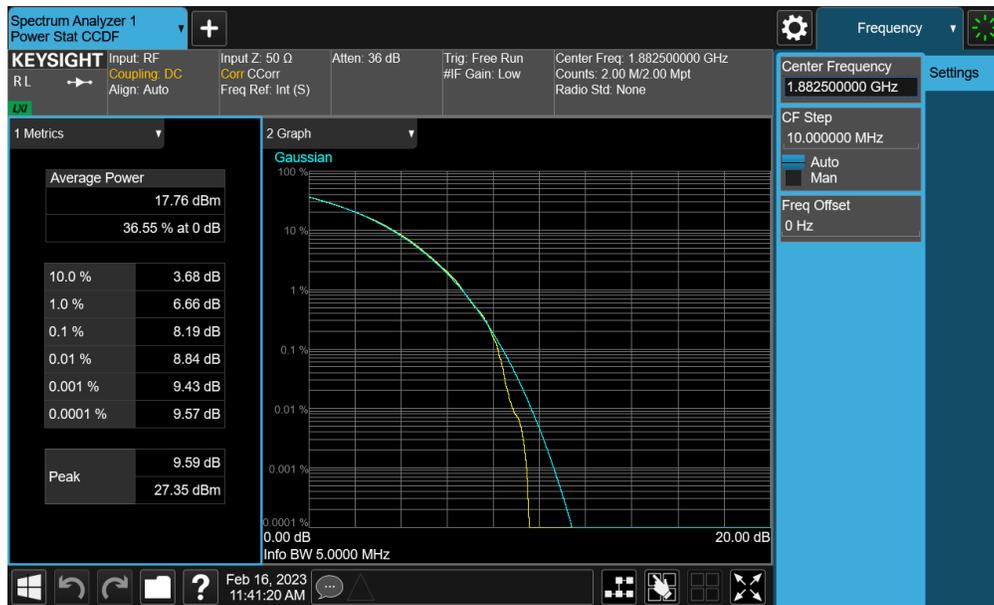


Plot 7-208. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 124 of 160



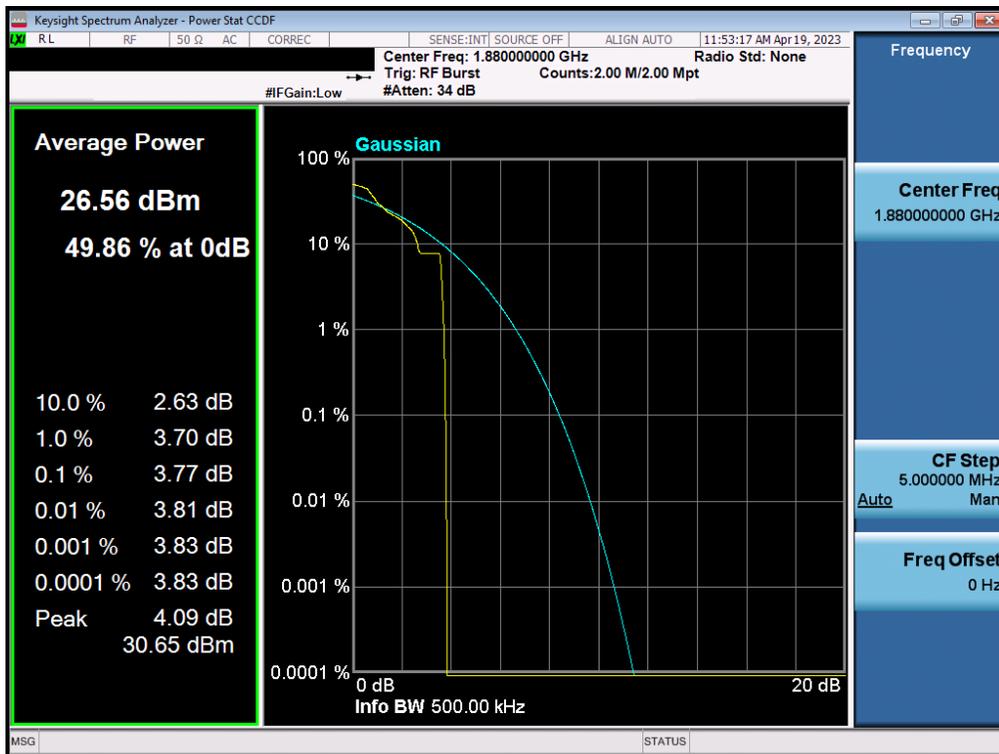
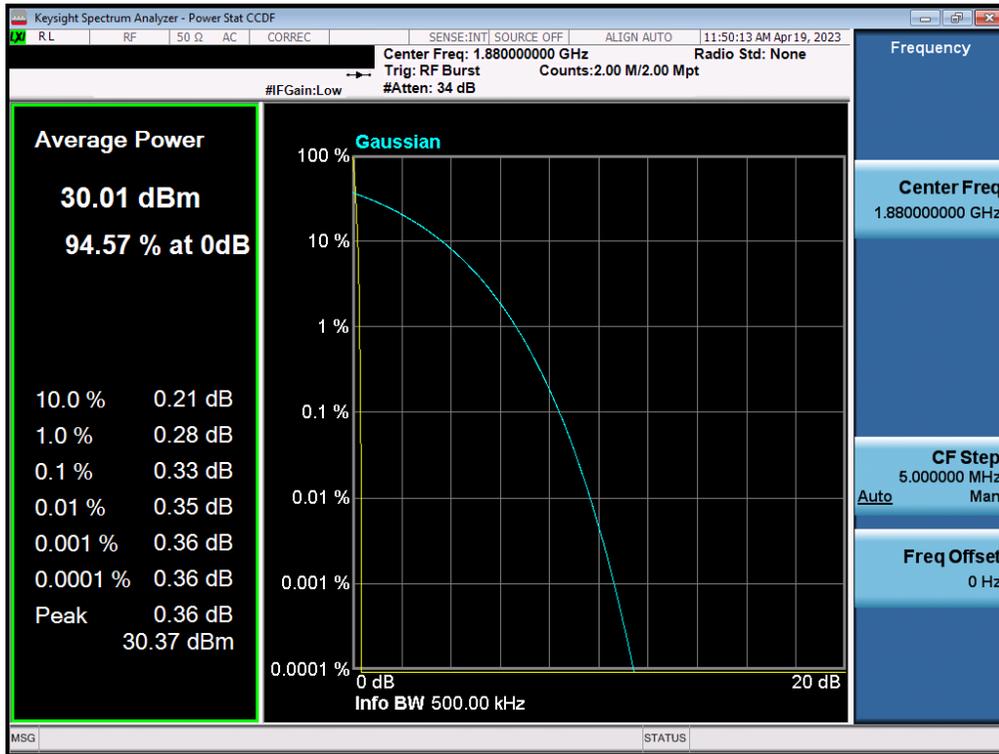
Plot 7-209. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - Main2)



Plot 7-210. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - Main2)

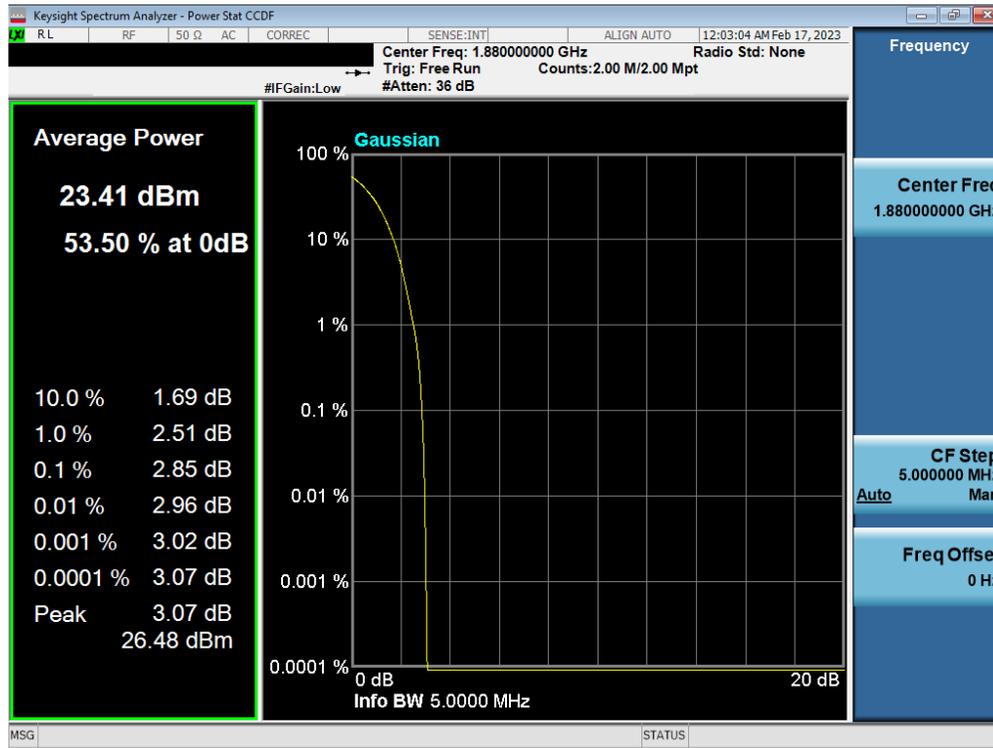
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 125 of 160

GPRS PCS – Main2



FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 126 of 160

WCDMA PCS – Main2



Plot 7-213. PAR Plot (WCDMA, Ch. 9400 - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 127 of 160



7.7 Radiated Power (EIRP)

Test Overview

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. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used.
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”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup

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

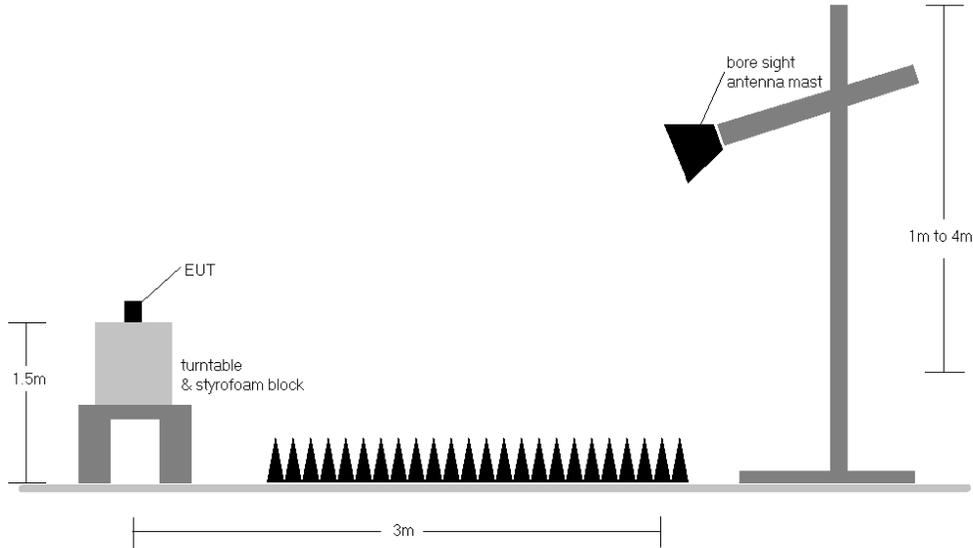


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 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) 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.
- 4) This unit was tested with its standard battery.
- 5) 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 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 129 of 160

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	1860.00	V	119	347	9.68	1 / 99	13.11	22.79	0.190	33.01	-10.22
	QPSK	1882.50	V	102	40	9.99	1 / 50	13.84	23.83	0.241	33.01	-9.18
	QPSK	1905.00	V	103	357	10.18	1 / 50	12.74	22.92	0.196	33.01	-10.09
	16-QAM	1882.50	V	102	40	9.99	1 / 50	13.31	23.30	0.214	33.01	-9.71
15 MHz	QPSK	1857.50	V	119	347	9.66	1 / 74	13.15	22.81	0.191	33.01	-10.20
	QPSK	1882.50	V	102	40	9.99	1 / 74	13.91	23.89	0.245	33.01	-9.12
	QPSK	1907.50	V	103	357	10.19	1 / 37	12.67	22.87	0.194	33.01	-10.14
	16-QAM	1882.50	V	102	40	9.99	1 / 74	13.10	23.08	0.203	33.01	-9.93
10 MHz	QPSK	1855.00	V	119	347	9.64	1 / 0	13.29	22.93	0.197	33.01	-10.08
	QPSK	1882.50	V	102	40	9.99	1 / 25	14.06	24.04	0.254	33.01	-8.97
	QPSK	1910.00	V	103	357	10.20	1 / 0	12.83	23.03	0.201	33.01	-9.98
	16-QAM	1882.50	V	102	40	9.99	1 / 25	13.37	23.36	0.217	33.01	-9.65
5 MHz	QPSK	1852.50	V	119	347	9.63	1 / 12	13.53	23.15	0.207	33.01	-9.86
	QPSK	1882.50	V	102	40	9.99	1 / 0	14.14	24.13	0.259	33.01	-8.88
	QPSK	1912.50	V	103	357	10.21	1 / 12	12.65	22.85	0.193	33.01	-10.16
	16-QAM	1882.50	V	102	40	9.99	1 / 0	13.37	23.36	0.217	33.01	-9.65
3 MHz	QPSK	1851.50	V	119	347	9.62	1 / 14	13.27	22.88	0.194	33.01	-10.13
	QPSK	1882.50	V	102	40	9.99	1 / 7	14.20	24.18	0.262	33.01	-8.83
	QPSK	1913.50	V	103	357	10.21	1 / 7	12.79	23.00	0.199	33.01	-10.01
	16-QAM	1882.50	V	102	40	9.99	1 / 7	13.34	23.33	0.215	33.01	-9.68
1.4 MHz	QPSK	1850.70	V	119	347	9.61	1 / 0	13.31	22.92	0.196	33.01	-10.09
	QPSK	1882.50	V	102	40	9.99	1 / 5	14.25	24.24	0.265	33.01	-8.77
	QPSK	1914.30	V	103	357	10.21	1 / 5	12.65	22.86	0.193	33.01	-10.15
	16-QAM	1882.50	V	102	40	9.99	1 / 5	13.51	23.50	0.224	33.01	-9.51
20 MHz	WCP	1882.50	V	393	55	9.99	1 / 50	11.27	21.26	0.134	33.01	-11.75

Table 7-4. EIRP Data (LTE Band 25/2 – 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	1860.00	V	149	351	9.68	100 / 0	10.28	19.96	0.099	33.01	-13.05
	QPSK	1880.00	V	166	84	9.96	1 / 0	11.37	21.33	0.136	33.01	-11.68
	QPSK	1900.00	V	153	47	10.16	1 / 0	10.07	20.23	0.105	33.01	-12.78
	16-QAM	1880.00	V	166	84	9.96	1 / 0	10.35	20.31	0.107	33.01	-12.70
15 MHz	QPSK	1857.50	V	149	351	9.66	1 / 37	10.05	19.71	0.094	33.01	-13.30
	QPSK	1880.00	V	166	84	9.96	1 / 37	11.15	21.11	0.129	33.01	-11.90
	QPSK	1902.50	V	153	47	10.17	1 / 0	10.12	20.29	0.107	33.01	-12.72
	16-QAM	1880.00	V	166	84	9.96	1 / 37	10.32	20.28	0.107	33.01	-12.73
10 MHz	QPSK	1855.00	V	149	351	9.64	1 / 25	10.35	19.99	0.100	33.01	-13.02
	QPSK	1880.00	V	166	84	9.96	1 / 25	11.25	21.21	0.132	33.01	-11.80
	QPSK	1905.00	V	153	47	10.18	1 / 25	10.31	20.50	0.112	33.01	-12.51
	16-QAM	1880.00	V	166	84	9.96	1 / 25	10.54	20.50	0.112	33.01	-12.51
5 MHz	QPSK	1852.50	V	149	351	9.63	1 / 12	10.29	19.91	0.098	33.01	-13.10
	QPSK	1880.00	V	166	84	9.96	1 / 12	11.35	21.31	0.135	33.01	-11.70
	QPSK	1907.50	V	153	47	10.19	1 / 12	10.33	20.52	0.113	33.01	-12.49
	16-QAM	1880.00	V	166	84	9.96	1 / 12	10.49	20.45	0.111	33.01	-12.56
3 MHz	QPSK	1851.50	V	149	351	9.62	1 / 7	10.25	19.87	0.097	33.01	-13.14
	QPSK	1880.00	V	166	84	9.96	1 / 7	11.50	21.46	0.140	33.01	-11.55
	QPSK	1908.50	V	153	47	10.20	1 / 7	10.48	20.67	0.117	33.01	-12.34
	16-QAM	1880.00	V	166	84	9.96	1 / 7	10.44	20.40	0.110	33.01	-12.61
1.4 MHz	QPSK	1850.70	V	149	351	9.61	1 / 3	10.39	20.00	0.100	33.01	-13.01
	QPSK	1880.00	V	166	84	9.96	1 / 0	11.38	21.34	0.136	33.01	-11.67
	QPSK	1909.30	V	153	47	10.20	1 / 5	10.36	20.56	0.114	33.01	-12.45
	16-QAM	1880.00	V	166	84	9.96	1 / 0	10.46	20.42	0.110	33.01	-12.59
20 MHz	WCP	1880.00	V	127	35	9.96	1 / 99	5.82	15.78	0.038	33.01	-17.23

Table 7-5. EIRP Data (LTE Band 2 – Sub)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 130 of 160

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	1860.00	H	115	178	9.55	1 / 26	11.23	20.78	0.120	33.01	-12.23
	$\pi/2$ BPSK	1882.50	H	108	178	9.83	1 / 53	12.29	22.12	0.163	33.01	-10.89
	$\pi/2$ BPSK	1905.00	H	108	173	10.16	1 / 26	10.69	20.85	0.122	33.01	-12.16
	QPSK	1860.00	H	115	178	9.55	1 / 26	11.16	20.71	0.118	33.01	-12.30
	QPSK	1882.50	H	108	178	9.83	1 / 53	12.18	22.01	0.159	33.01	-11.00
	QPSK	1905.00	H	108	173	10.16	1 / 26	10.58	20.74	0.119	33.01	-12.27
15 MHz	16-QAM	1882.50	H	108	178	9.83	1 / 53	11.47	21.30	0.135	33.01	-11.71
	$\pi/2$ BPSK	1857.50	H	115	178	9.51	1 / 39	11.26	20.77	0.119	33.01	-12.24
	$\pi/2$ BPSK	1882.50	H	108	178	9.83	1 / 39	12.26	22.09	0.162	33.01	-10.92
	$\pi/2$ BPSK	1907.50	H	108	173	10.21	1 / 39	10.42	20.63	0.116	33.01	-12.38
	QPSK	1857.50	H	115	178	9.51	1 / 39	11.20	20.72	0.118	33.01	-12.29
	QPSK	1882.50	H	108	178	9.83	1 / 39	12.13	21.96	0.157	33.01	-11.05
10 MHz	QPSK	1907.50	H	108	173	10.21	1 / 39	10.26	20.47	0.111	33.01	-12.54
	16-QAM	1882.50	H	108	178	9.83	1 / 39	11.34	21.17	0.131	33.01	-11.84
	$\pi/2$ BPSK	1855.00	H	115	178	9.48	1 / 13	11.32	20.80	0.120	33.01	-12.21
	$\pi/2$ BPSK	1882.50	H	108	178	9.83	1 / 13	12.10	21.94	0.156	33.01	-11.07
	$\pi/2$ BPSK	1910.00	H	108	173	10.25	1 / 13	10.52	20.77	0.119	33.01	-12.24
	QPSK	1855.00	H	115	178	9.48	1 / 13	11.20	20.68	0.117	33.01	-12.33
5 MHz	QPSK	1882.50	H	108	178	9.83	1 / 13	12.00	21.83	0.152	33.01	-11.18
	QPSK	1910.00	H	108	173	10.25	1 / 13	10.29	20.54	0.113	33.01	-12.47
	16-QAM	1882.50	H	108	178	9.83	1 / 13	11.08	20.91	0.123	33.01	-12.10
	$\pi/2$ BPSK	1852.50	H	115	178	9.44	1 / 12	11.36	20.80	0.120	33.01	-12.21
	$\pi/2$ BPSK	1882.50	H	108	178	9.83	1 / 18	12.10	21.94	0.156	33.01	-11.07
	$\pi/2$ BPSK	1912.50	H	108	173	10.28	1 / 12	10.50	20.78	0.120	33.01	-12.23
20 MHz	QPSK	1852.50	H	115	178	9.44	1 / 12	11.23	20.68	0.117	33.01	-12.34
	QPSK	1882.50	H	108	178	9.83	1 / 18	11.96	21.80	0.151	33.01	-11.21
	QPSK	1912.50	H	108	173	10.28	1 / 12	10.18	20.46	0.111	33.01	-12.55
	16-QAM	1882.50	H	108	178	9.83	1 / 18	11.30	21.13	0.130	33.01	-11.88
20 MHz	QPSK (WCP)	1882.50	H	150	85	9.83	1/1	10.21	20.04	0.101	33.01	-12.97

Table 7-6. EIRP Data (NR Band n25/2 – Main2)

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]
1850.20	GPRS1900	V	145	130	10.25	9.61	19.86	0.097	33.01	-13.15
1880.00	GPRS1900	V	149	141	9.48	9.96	19.44	0.088	33.01	-13.57
1909.80	GPRS1900	V	158	148	9.05	10.20	19.25	0.084	33.01	-13.76
1850.20	EDGE1900	V	145	130	5.42	9.96	15.38	0.034	33.01	-17.63
1850.20	GPRS1900 (WCP)	H	160	83	6.57	9.41	15.98	0.040	33.01	-17.03

Table 7-7. EIRP Data (GPRS PCS – Main2)

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]
1852.40	WCDMA1900	V	105	133	12.60	9.63	22.23	0.167	33.01	-10.79
1880.00	WCDMA1900	V	105	28	12.84	9.96	22.80	0.190	33.01	-10.21
1907.60	WCDMA1900	V	102	345	11.90	10.19	22.09	0.162	33.01	-10.92
1880.00	WCDMA1900 (WCP)	V	392	53	10.28	9.96	20.24	0.106	33.01	-12.77

Table 7-8. EIRP Data (WCDMA PCS – Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize.

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup

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

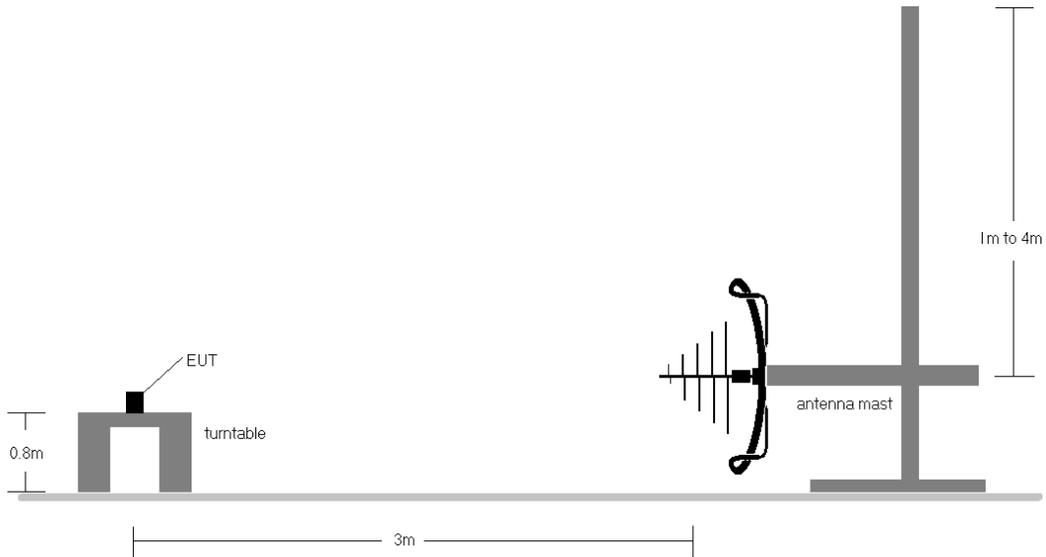


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

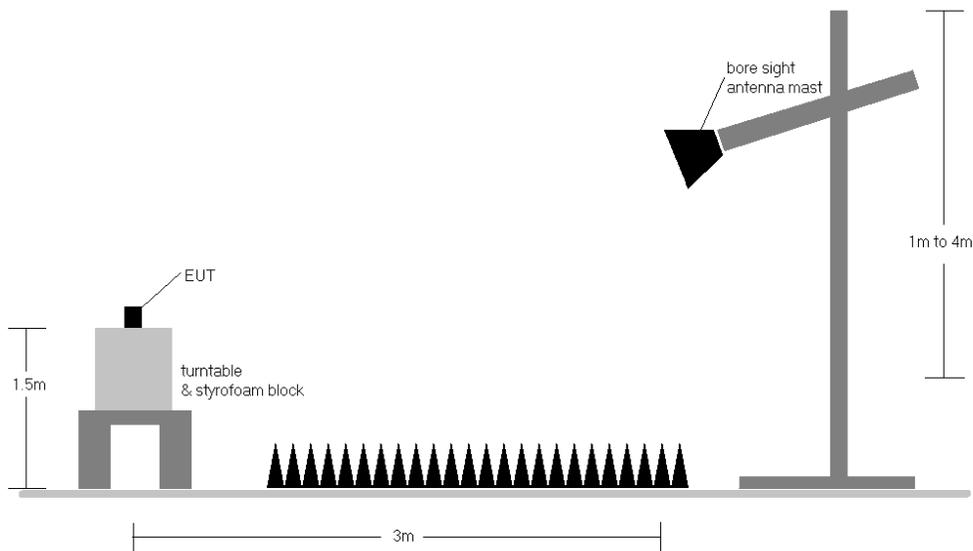


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

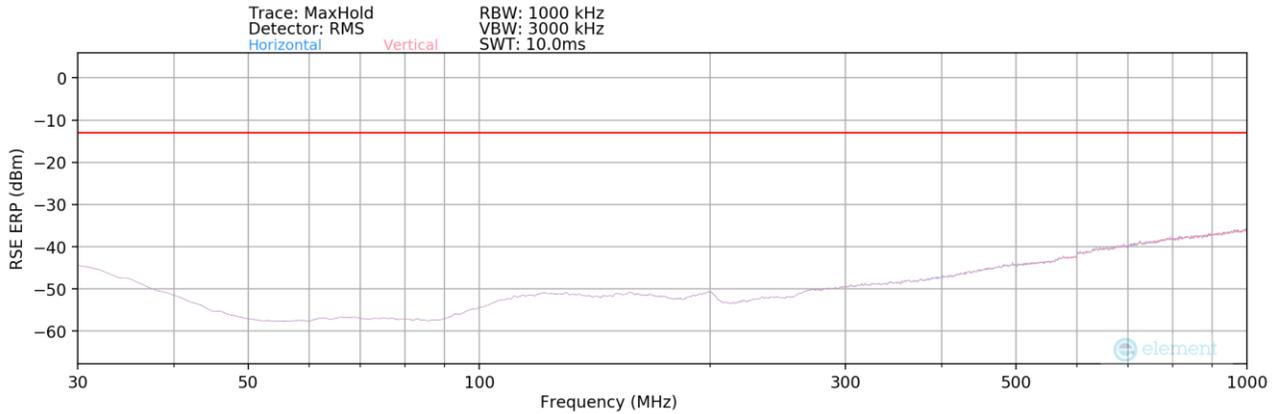
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 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) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 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) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) 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.
- 10) 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 are 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 25/2 – Main2

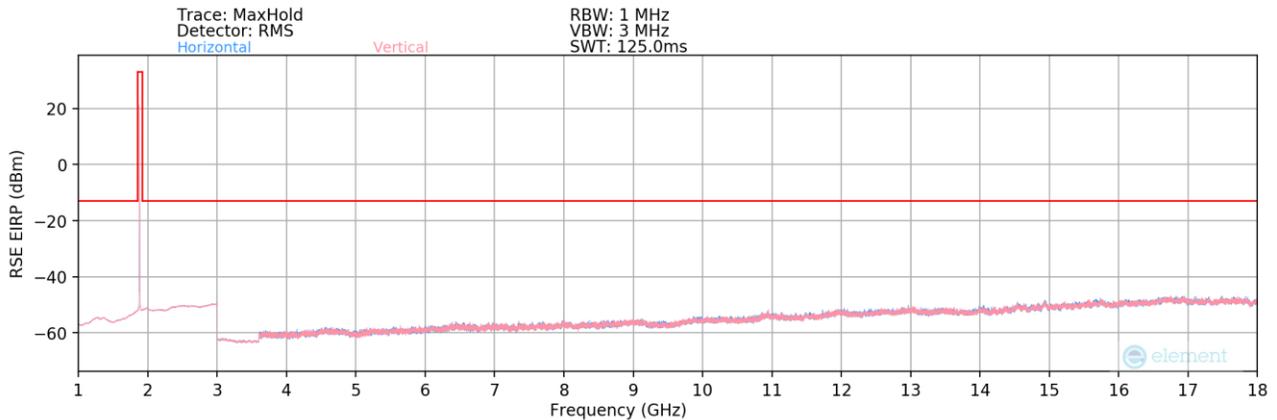


Plot 7-214. Radiated Spurious Plot 30MHz-1GHz (LTE Band 25/2 - Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
723.00	V	-	-	-89.88	29.38	46.50	-50.90	-13.00	-37.90

Table 7-9. Radiated Spurious Data 30MHz-1GHz (LTE Band 25/2 – Mid Channel - Main2)



Plot 7-215. Radiated Spurious Plot 1-18GHz (LTE Band 25/2 - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	V	122	155	-72.37	-2.56	32.07	-63.18	-13.00	-50.18
5580.00	V	167	54	-64.49	0.24	42.75	-52.51	-13.00	-39.51
7440.00	V	-	-	-76.53	4.36	34.83	-60.43	-13.00	-47.43
9300.00	V	-	-	-78.08	7.08	36.00	-59.26	-13.00	-46.26
11160.00	V	-	-	-78.32	8.09	36.77	-58.48	-13.00	-45.48

Table 7-10. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	V	120	4	-74.83	-1.71	30.46	-64.80	-13.00	-51.80
5647.50	V	142	50	-66.98	0.34	40.36	-54.90	-13.00	-41.90
7530.00	V	-	-	-76.32	3.95	34.63	-60.63	-13.00	-47.63
9412.50	V	-	-	-77.56	6.68	36.12	-59.14	-13.00	-46.14
11295.00	V	-	-	-78.35	8.64	37.29	-57.96	-13.00	-44.96

Table 7-11. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Main2)

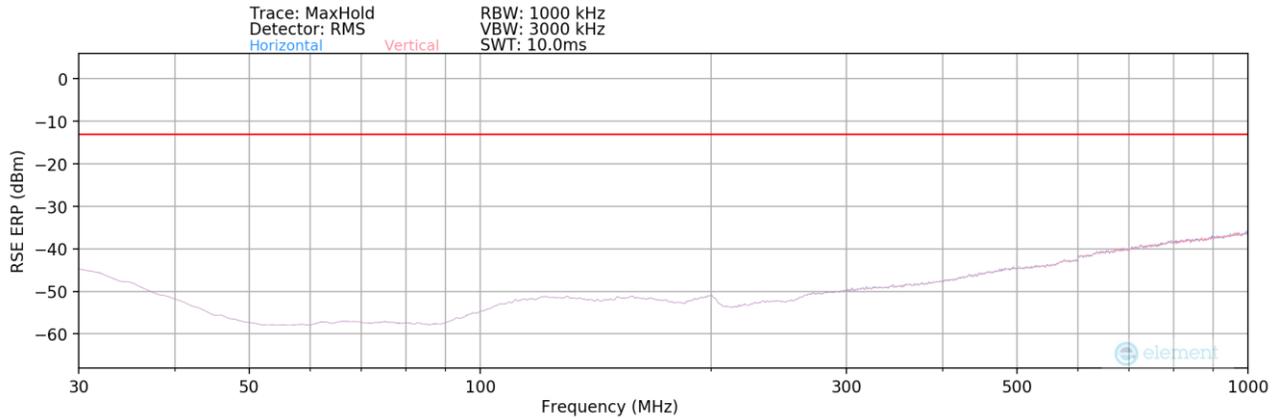
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

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]
3810.00	V	146	81	-73.50	-1.48	32.02	-63.24	-13.00	-50.24
5715.00	V	250	42	-67.07	0.58	40.51	-54.75	-13.00	-41.75
7620.00	V	-	-	-76.94	4.54	34.60	-60.66	-13.00	-47.66
9525.00	V	-	-	-77.65	6.89	36.24	-59.02	-13.00	-46.02
11430.00	V	-	-	-77.43	8.24	37.81	-57.45	-13.00	-44.45

Table 7-12. Radiated Spurious Data (LTE Band 25/2 – High Channel - Main2)

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LTE Band 2 – Sub

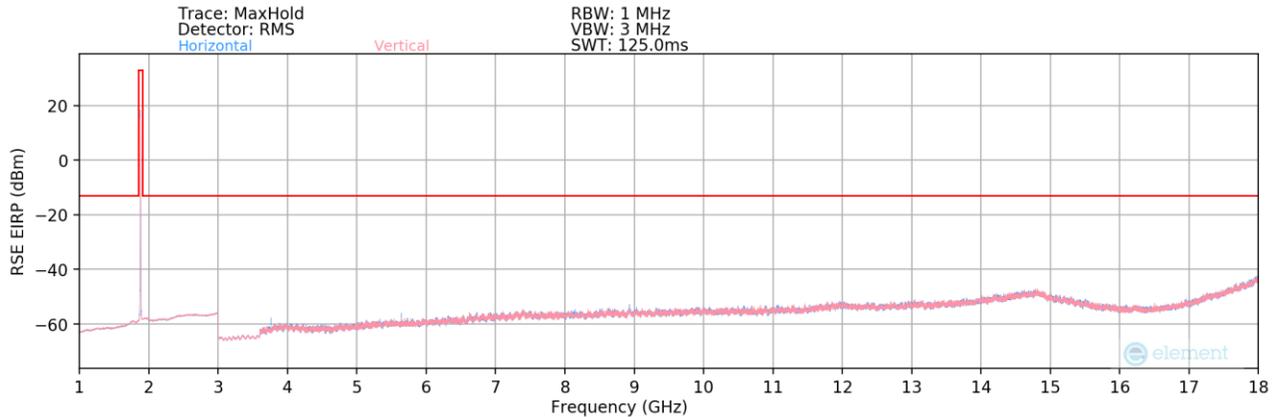


Plot 7-216. Radiated Spurious Plot 30MHz-1GHz (LTE Band 2 - Sub)

Bandwidth (MHz):	20
Frequency (MHz):	1880
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]
374.00	H	-	-	-90.86	22.86	39.00	-58.40	-13.00	-45.40

Table 7-13. Radiated Spurious Data 30MHz-1GHz (LTE Band 2 – Mid Channel - Sub)



Plot 7-217. Radiated Spurious Plot 1-18GHz (LTE Band 2 - Sub)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	H	133	359	-69.94	-2.56	34.50	-60.75	-13.00	-47.75
5580.00	H	139	187	-70.31	0.24	36.93	-58.33	-13.00	-45.33
7440.00	H	-	-	-76.15	4.36	35.21	-60.05	-13.00	-47.05
9300.00	H	-	-	-77.82	7.08	36.26	-59.00	-13.00	-46.00
11160.00	H	-	-	-77.96	8.09	37.13	-58.12	-13.00	-45.12

Table 7-14. Radiated Spurious Data (LTE Band 2 – Low Channel - Sub)

Bandwidth (MHz):	20
Frequency (MHz):	1880
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]
3760.00	H	148	44	-67.82	-1.83	37.35	-57.90	-13.00	-44.90
5640.00	H	214	73	-70.94	0.25	36.31	-58.95	-13.00	-45.95
7520.00	H	-	-	-75.61	3.89	35.28	-59.98	-13.00	-46.98
9400.00	H	-	-	-77.43	6.80	36.37	-58.89	-13.00	-45.89
11280.00	H	-	-	-78.04	8.46	37.42	-57.84	-13.00	-44.84

Table 7-15. Radiated Spurious Data (LTE Band 2 – Mid Channel - Sub)

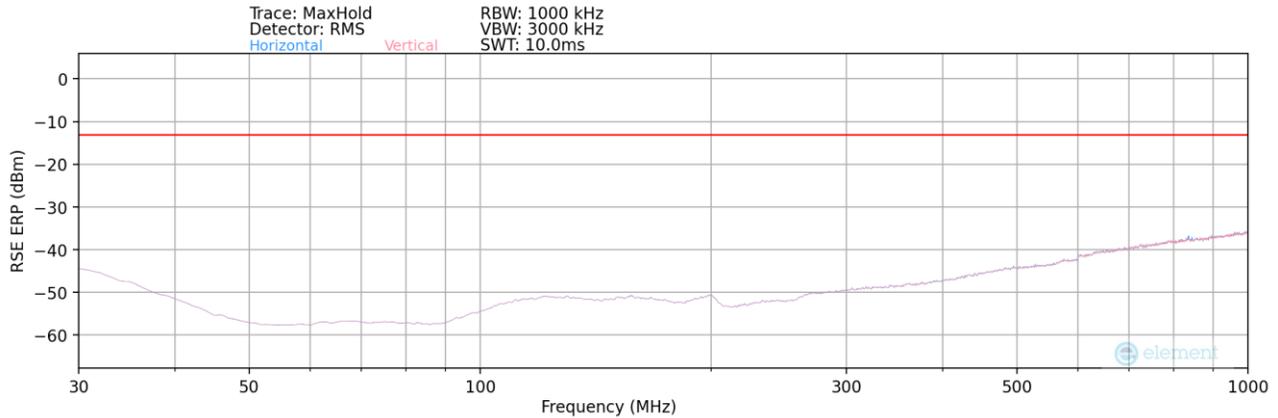
Bandwidth (MHz):	20
Frequency (MHz):	1900
RB / Offset:	1 / 50

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]
3800.00	H	155	48	-66.52	-1.52	38.96	-56.30	-13.00	-43.30
5700.00	H	154	352	-68.89	0.61	38.72	-56.54	-13.00	-43.54
7600.00	H	-	-	-76.28	4.41	35.13	-60.13	-13.00	-47.13
9500.00	H	-	-	-77.50	6.88	36.38	-58.87	-13.00	-45.87
11400.00	H	-	-	-78.62	8.38	36.76	-58.50	-13.00	-45.50

Table 7-16. Radiated Spurious Data (LTE Band 2 – High Channel - Sub)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Main2

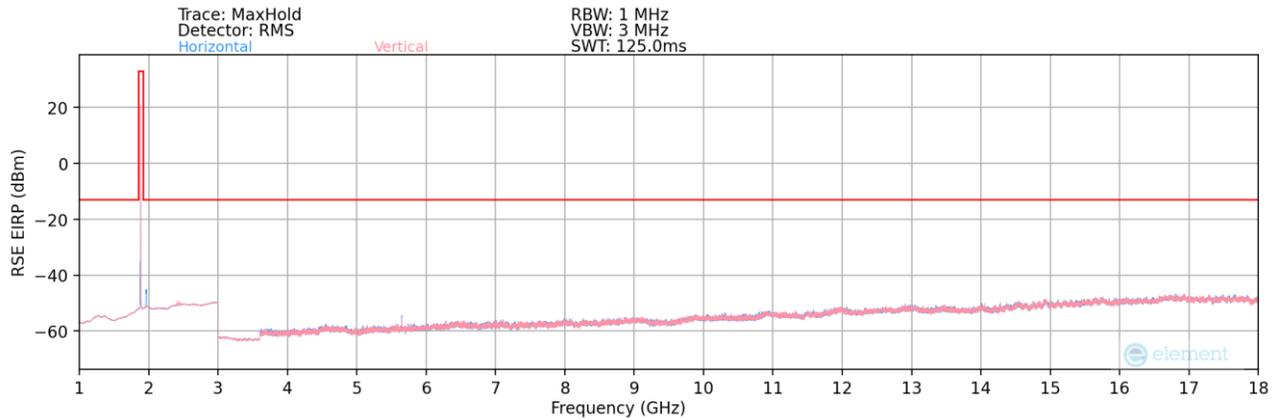


Plot 7-218. Radiated Spurious Plot 30MHz-1GHz (NR Band n25/2 - Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 53
Mode:	Stand Alone

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]
837.50	H	-	-	-95.20	30.71	42.51	-52.75	-13.00	-39.75

Table 7-17. Radiated Spurious Data 30MHz-1GHz (NR Band n25/2 – Mid Channel - Main2)



Plot 7-219. Radiated Spurious Plot 1-18GHz (NR Band n25/2 - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 53
Mode:	Stand Alone

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]
3720.00	H	116	38	-74.55	3.08	35.53	-59.73	-13.00	-46.73
5580.00	H	119	3	-71.06	4.81	40.75	-54.50	-13.00	-41.50
7440.00	H	-	-	-78.89	6.93	35.04	-60.22	-13.00	-47.22
9300.00	H	-	-	-79.40	8.66	36.26	-59.00	-13.00	-46.00
11160.00	H	-	-	-79.85	11.43	38.58	-56.68	-13.00	-43.68

Table 7-18. Radiated Spurious Data (NR Band n25/2 – Low Channel - Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 53
Mode:	Stand Alone

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]
3765.00	H	117	14	-74.78	2.83	35.05	-60.21	-13.00	-47.21
5647.50	H	116	349	-71.82	5.11	40.29	-54.96	-13.00	-41.96
7530.00	H	-	-	-79.01	7.23	35.22	-60.04	-13.00	-47.04
9412.50	H	-	-	-80.09	9.46	36.37	-58.89	-13.00	-45.89
11295.00	H	-	-	-80.28	11.75	38.47	-56.79	-13.00	-43.79

Table 7-19. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Main2)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 53
Mode:	Stand Alone

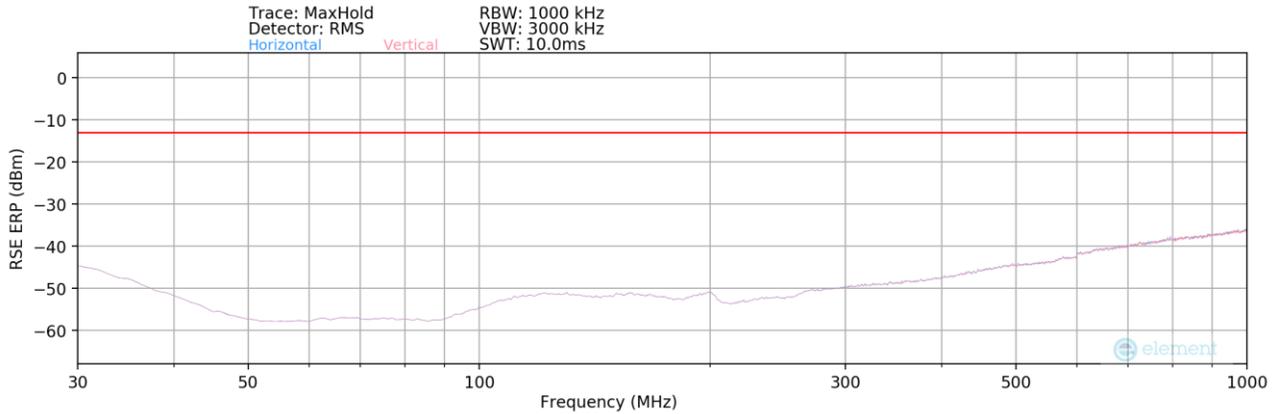
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	131	42	-71.80	2.76	37.96	-57.30	-13.00	-44.30
5715.00	H	145	25	-74.19	5.05	37.86	-57.39	-13.00	-44.39
7620.00	H	-	-	-79.13	7.60	35.47	-59.79	-13.00	-46.79
9525.00	H	-	-	-80.20	9.53	36.33	-58.93	-13.00	-45.93
11430.00	H	-	-	-80.33	11.87	38.54	-56.72	-13.00	-43.72

Table 7-20. Radiated Spurious Data (NR Band n25/2 – High Channel - Main2)

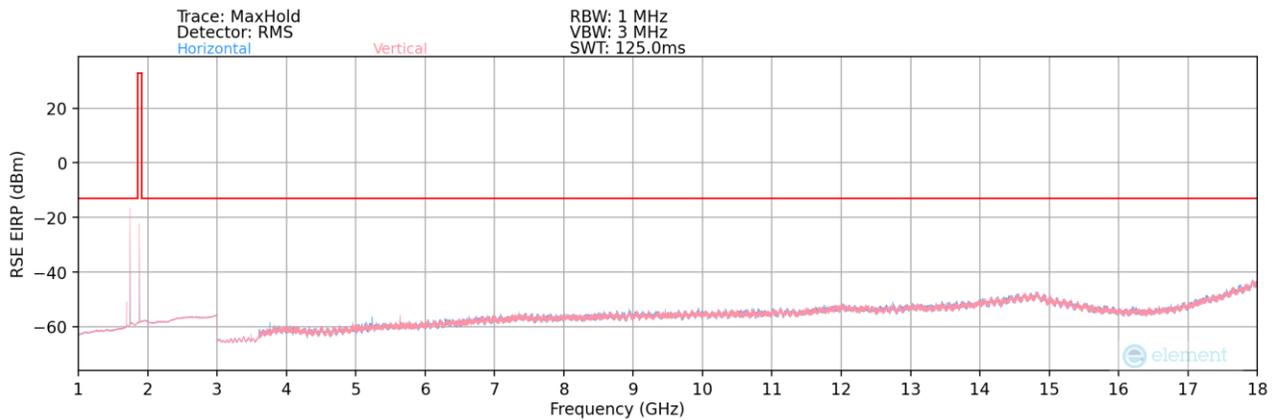
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC: NR Band n2 Main2 – LTE Band 66 Sub



Plot 7-220. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 66 Sub)



Plot 7-221. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 66 Sub)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	1880 / 1745
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	Band 66

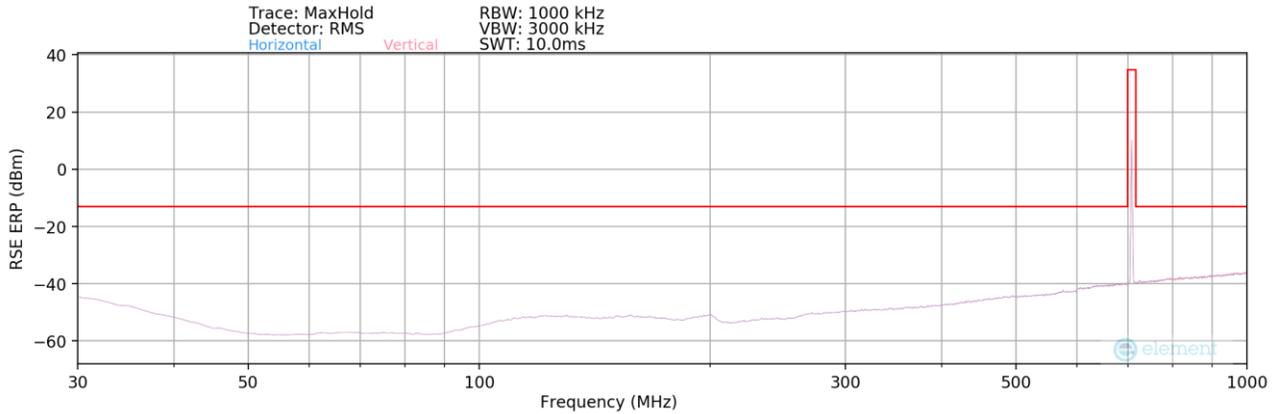
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
675.00	V	-	-	-90.35	28.44	45.09	-52.31	-13.00	-39.31
1610.00	V	214	191	-73.85	83.39	116.54	21.28	-13.00	34.28
3625.00	V	-	-	-74.63	2.76	35.13	-60.13	-13.00	-47.13
5370.00	V	-	-	-75.30	5.11	36.81	-58.45	-13.00	-45.45

Table 7-21. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 66 Sub)

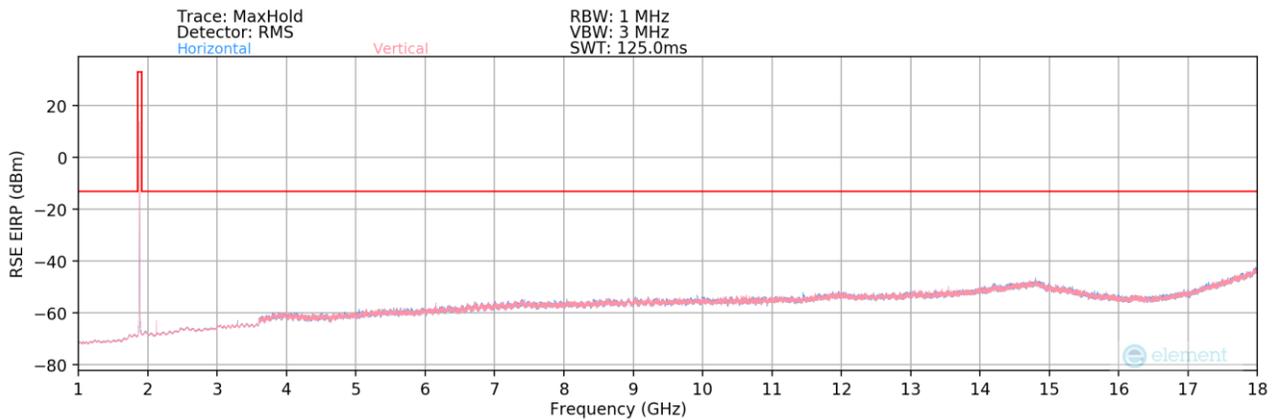
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC: NR Band n2 Main2 – LTE Band 12 Main1



Plot 7-222. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 12 Main1)



Plot 7-223. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 12 Main1)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 / 707.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 12

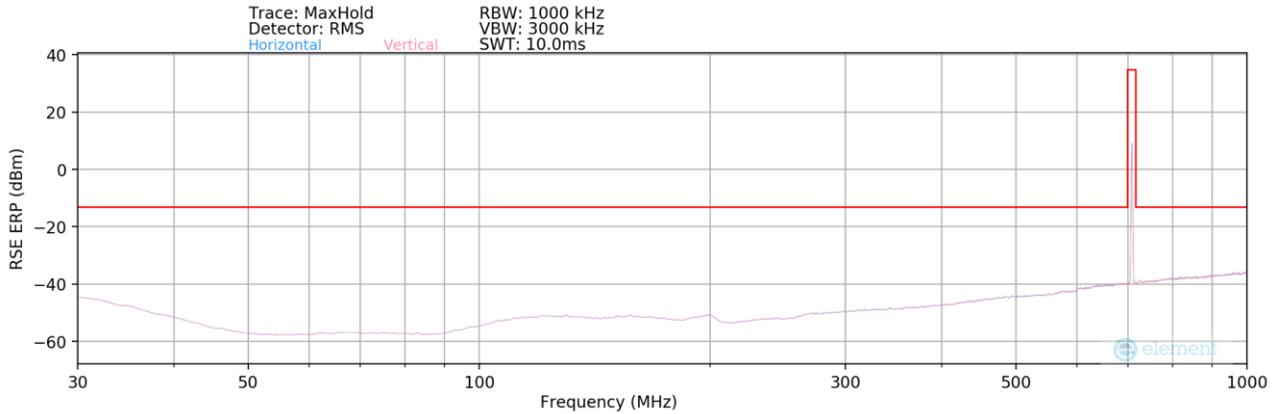
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
465.00	H	-	-	-90.22	25.06	41.84	-55.57	-13.00	-42.57
3295.00	H	282	195	-72.11	2.25	37.14	-58.12	-13.00	-45.12
4467.50	H	-	-	-74.82	3.50	35.68	-59.58	-13.00	-46.58
6812.50	H	-	-	-74.87	7.32	39.45	-55.81	-13.00	-42.81

Table 7-22. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 12 Main1)

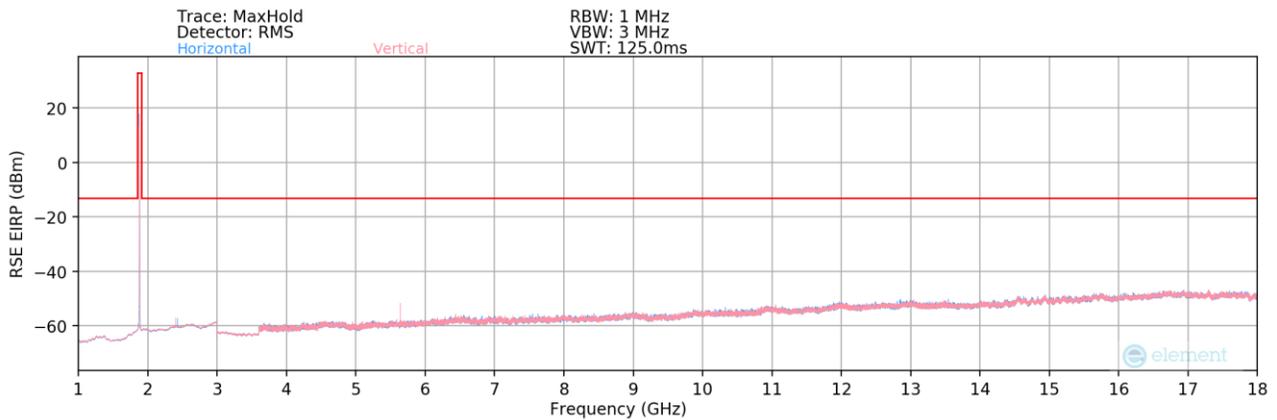
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC: NR Band n2 Main2 – LTE Band 12 Sub



Plot 7-224. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 12 Sub)



Plot 7-225. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 12 Sub)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 / 707.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 12

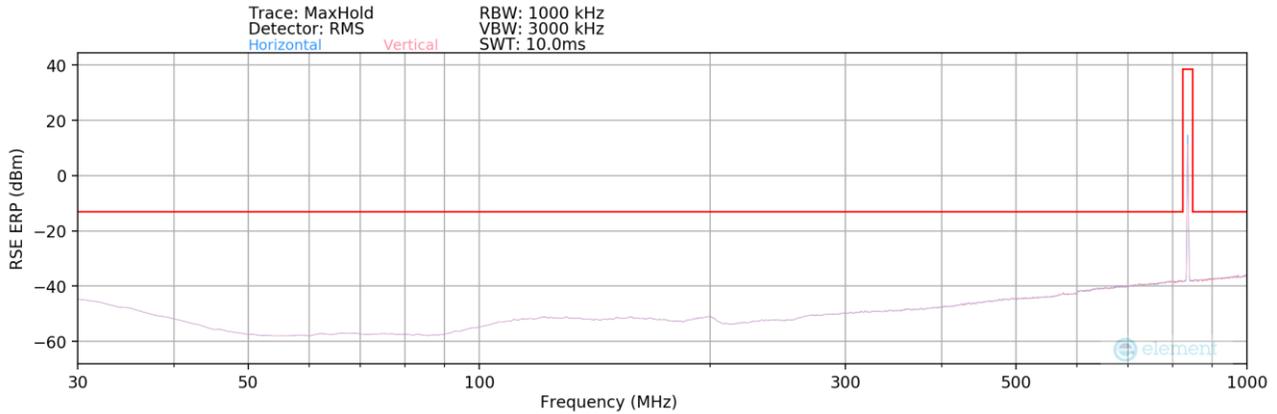
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
485.00	V	-	-	-90.05	25.75	42.70	-54.71	-13.00	-41.71
2587.50	V	-	-	-77.99	1.36	30.37	-64.88	-13.00	-51.88
2810.00	H	-	-	-77.29	0.55	30.26	-65.00	-13.00	-52.00
5640.00	V	130	227	-75.82	5.14	36.32	-58.94	-13.00	-45.94
6570.00	V	-	-	-79.26	6.41	34.15	-61.11	-13.00	-48.11
8470.00	V	-	-	-80.90	7.90	34.00	-61.26	-13.00	-48.26
9885.00	V	-	-	-81.24	10.38	36.14	-59.12	-13.00	-46.12

Table 7-23. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 12 Sub)

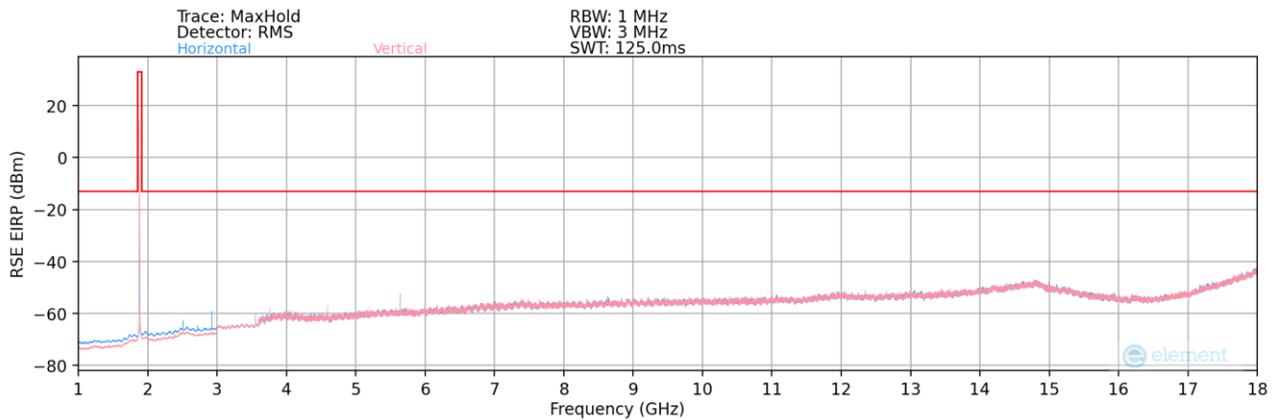
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC: NR Band n2 Main2 – LTE Band 5 Main1



Plot 7-226. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 5 Main1)



Plot 7-227. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 5 Main1)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 / 836.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

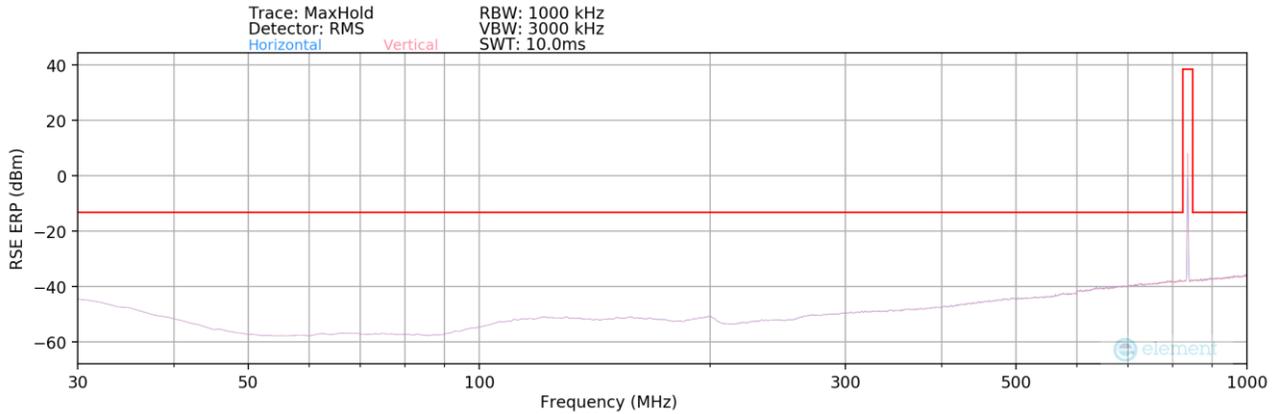
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
621.00	H	-	-	-90.27	27.36	44.09	-53.31	-13.00	-40.31
2923.50	H	248	260	-71.39	4.44	40.05	-55.20	-13.00	-42.20
4596.50	H	261	144	-72.20	4.46	39.26	-55.99	-13.00	-42.99
5226.00	H	-	-	-74.93	4.72	36.79	-58.47	-13.00	-45.47

Table 7-24. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 5 Main1)

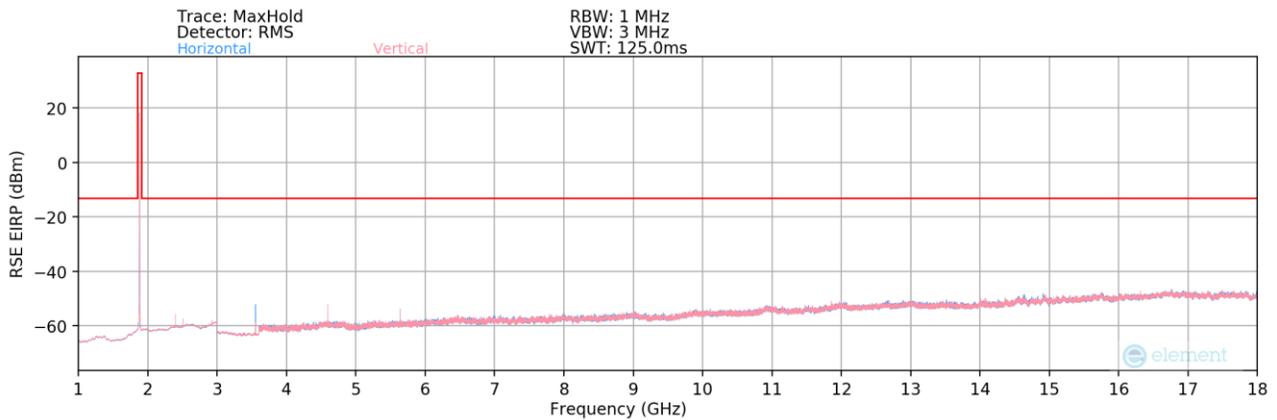
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 144 of 160



EN-DC: NR Band n2 Main2 – LTE Band 5 Sub



Plot 7-228. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 5 Sub)



Plot 7-229. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 5 Sub)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 / 836.5
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

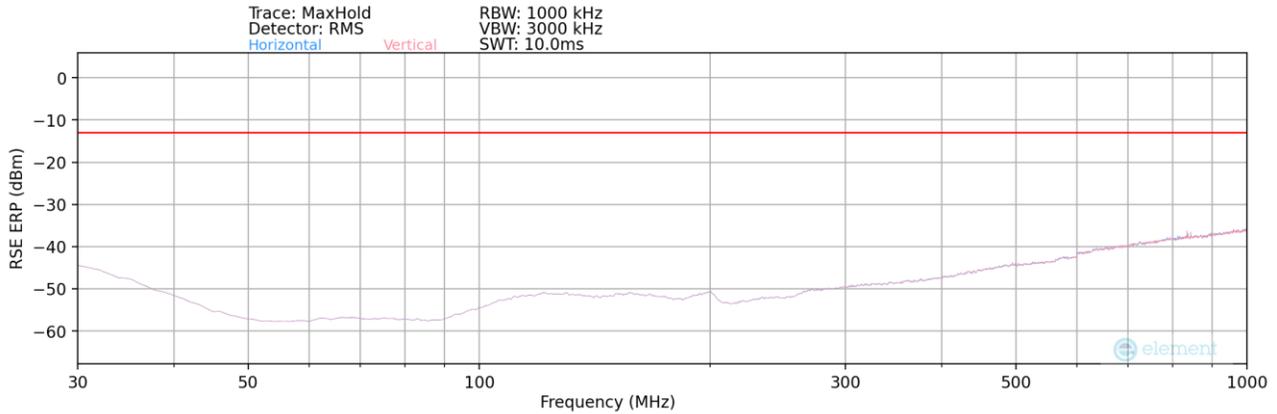
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
621.00	V	-	-	-89.92	27.36	44.44	-52.96	-13.00	-39.96
2509.50	V	128	7	-69.94	0.48	37.54	-57.72	-13.00	-44.72
2716.50	V	-	-	-77.43	0.53	30.10	-65.16	-13.00	-52.16
2923.50	V	129	191	-72.60	1.69	36.09	-59.17	-13.00	-46.17
3553.00	H	144	20	-62.65	2.16	46.51	-48.74	-13.00	-35.74
4596.50	V	140	344	-65.69	4.46	45.77	-49.48	-13.00	-36.48
5640.00	V	396	5	-76.21	5.14	35.93	-59.33	-13.00	-46.33
11702.50	V	-	-	-82.07	12.37	37.30	-57.96	-13.00	-44.96

Table 7-25. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 5 Sub)

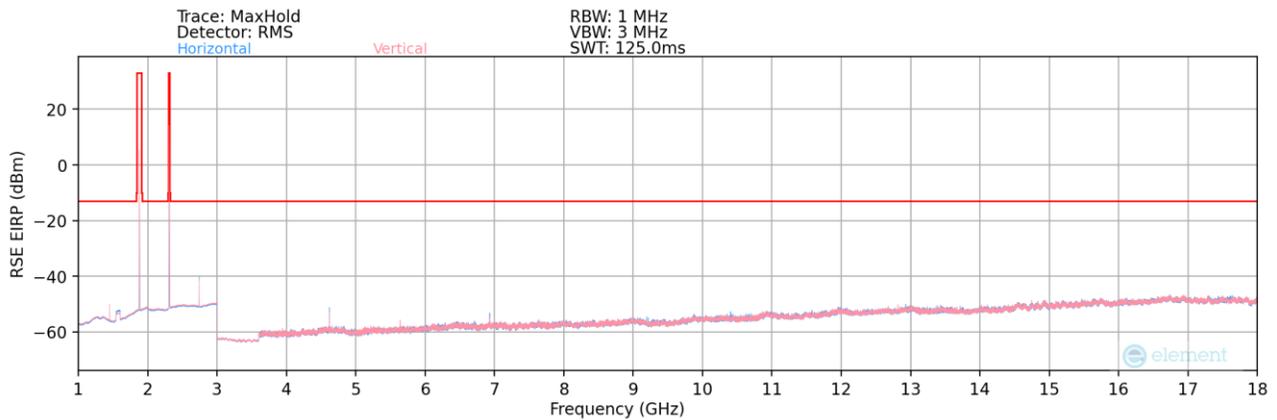
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 145 of 160



EN-DC: NR Band n2 Main2 – LTE Band 30 Sub



Plot 7-230. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 Main2 – LTE Band 30 Sub)



Plot 7-231. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n2 Main2 – LTE Band 30 Sub)

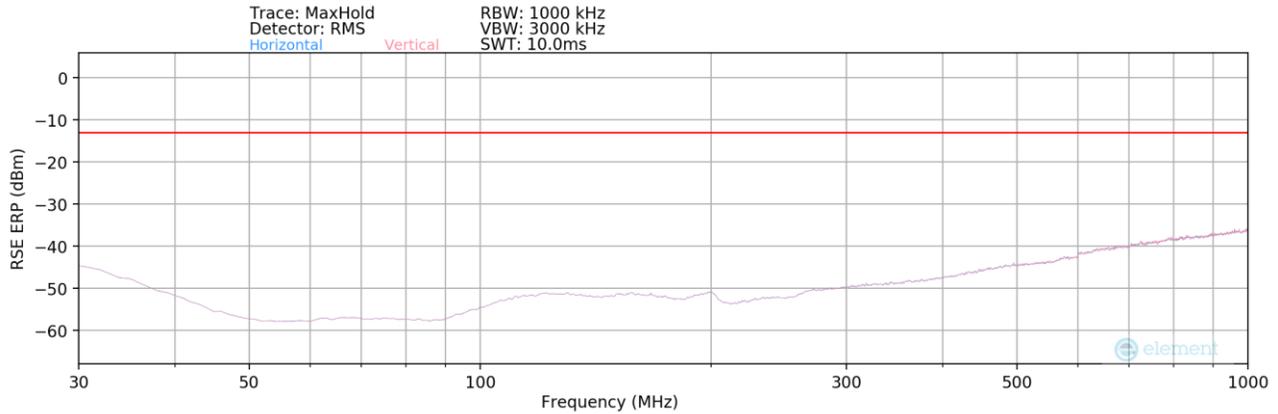
Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 / 2310
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
430.00	H	-	-	-101.34	24.56	30.22	-67.19	-13.00	-54.19
1450.00	H	285	310	-72.63	-3.97	30.40	-67.01	-13.00	-54.01
2740.00	H	-	-	-77.21	1.28	31.07	-66.34	-13.00	-53.34
6070.00	H	-	-	-78.95	6.22	34.27	-63.13	-13.00	-50.13
6500.00	H	-	-	-78.92	6.71	34.79	-62.61	-13.00	-49.61

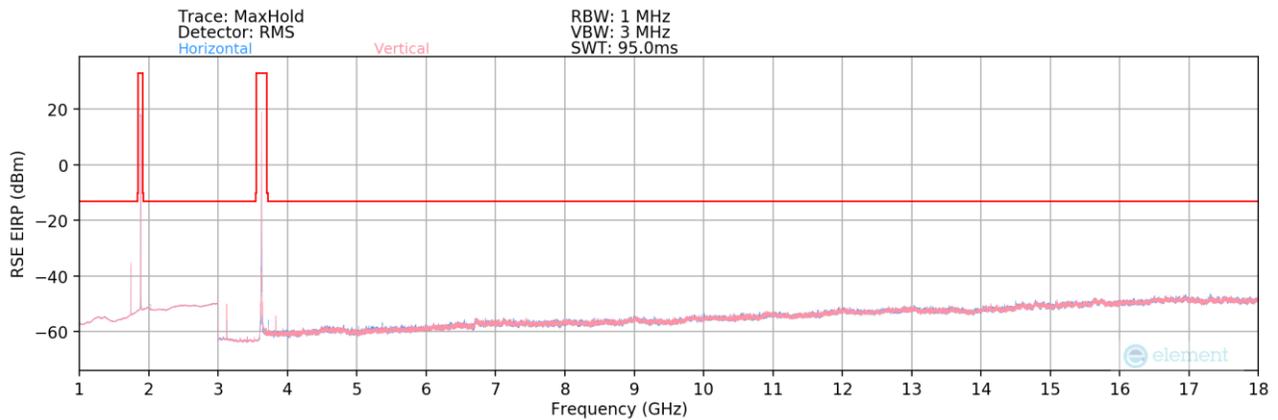
Table 7-26. Radiated Spurious Data (EN-DC: NR Band n2 Main2 – LTE Band 30 Sub)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 146 of 160

EN-DC: NR Band n25 Main2 – LTE Band 48 Main1



Plot 7-232. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n25 Main2 – LTE Band 48 Main1)



Plot 7-233. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n25 Main2 – LTE Band 48 Main1)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	1882.5 / 3625
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	Band 48

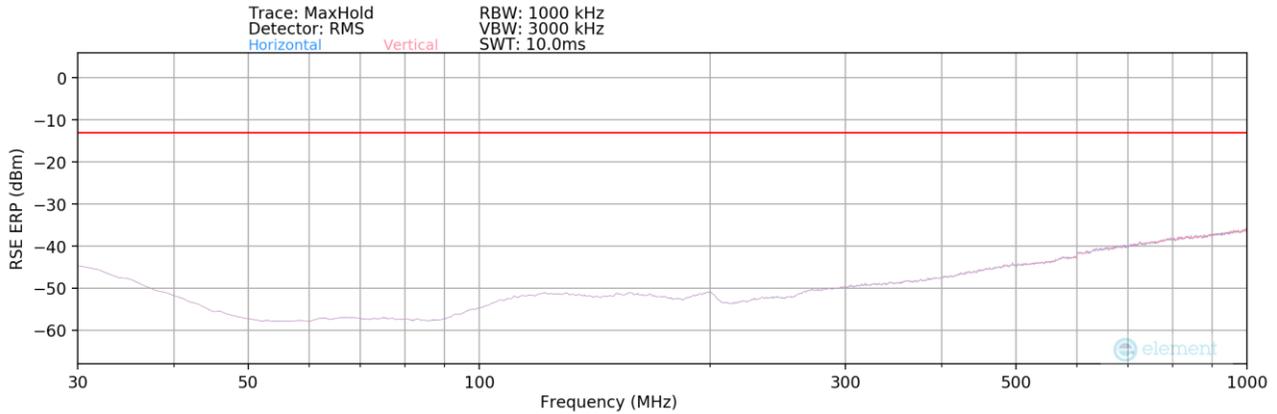
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
280.00	V	-	-	-85.31	20.60	42.29	-55.12	-13.00	-42.12
1742.50	V	127	360	-47.87	6.84	65.97	-29.29	-13.00	-16.29
2022.50	H	207	29	-67.39	9.05	48.66	-46.60	-13.00	-33.60
3123.00	V	-	-	-71.37	3.04	38.67	-56.58	-13.00	-43.58
3727.50	H	140	170	-72.67	2.97	37.30	-57.95	-13.00	-44.95
3765.00	V	-	-	-76.86	2.83	32.97	-62.29	-13.00	-49.29
5367.50	H	-	-	-77.09	4.78	34.69	-60.56	-13.00	-47.56

Table 7-27. Radiated Spurious Data (EN-DC: NR Band n25 Main2 – LTE Band 48 Main1)

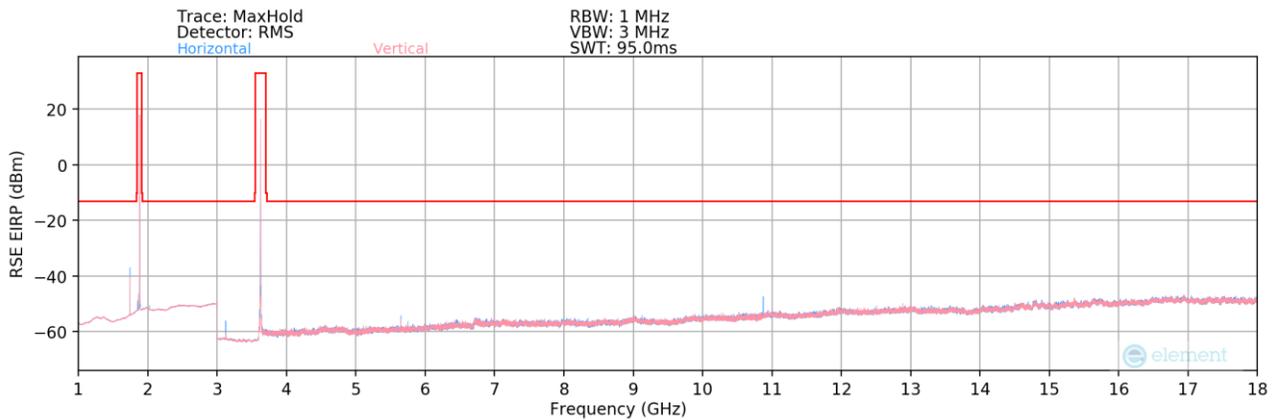
FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 147 of 160



EN-DC: NR Band n25 Main2 – LTE Band 48 Sub-UHB



Plot 7-234. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n25 Main2 – LTE Band 48 Sub-UHB)



Plot 7-235. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n25 Main2 – LTE Band 48 Sub-UHB)

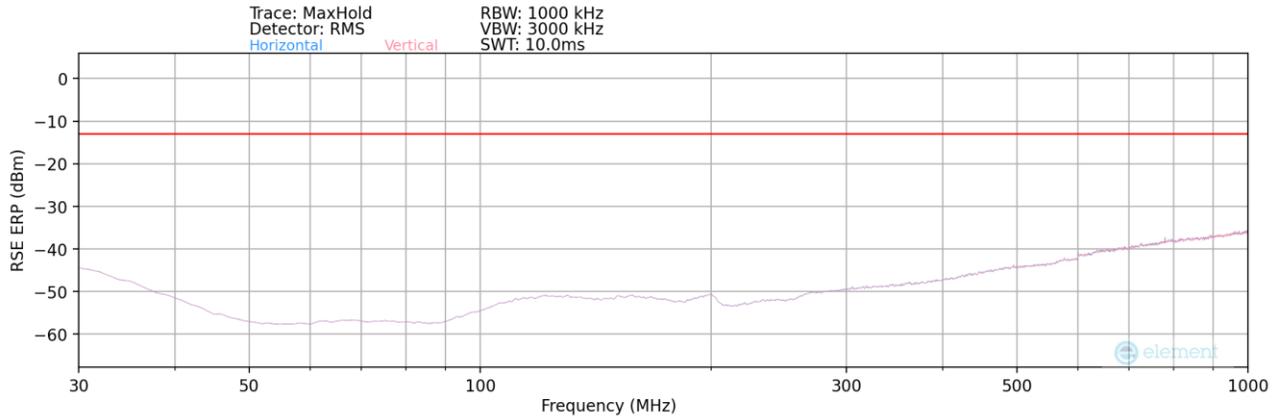
Bandwidth (MHz):	20 / 20
Frequency (MHz):	1882.5 / 3625
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	Band 48

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]
280.00	H	-	-	-85.30	20.60	42.30	-55.11	-13.00	-42.11
1742.50	H	154	24	-51.23	6.84	62.61	-32.65	-13.00	-19.65
2022.50	H	205	23	-67.13	9.05	48.92	-46.34	-13.00	-33.34
3123.00	H	187	35	-72.73	3.04	37.31	-57.94	-13.00	-44.94
5647.50	H	250	118	-70.46	5.11	41.65	-53.60	-13.00	-40.60
10875.50	H	308	357	-72.02	11.17	46.15	-49.11	-13.00	-36.11
11435.00	H	-	-	-80.45	11.98	38.53	-56.73	-13.00	-43.73

Table 7-28. Radiated Spurious Data (EN-DC: NR Band n25 Main2 – LTE Band 48 Sub-UHB)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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GPRS PCS – Main2

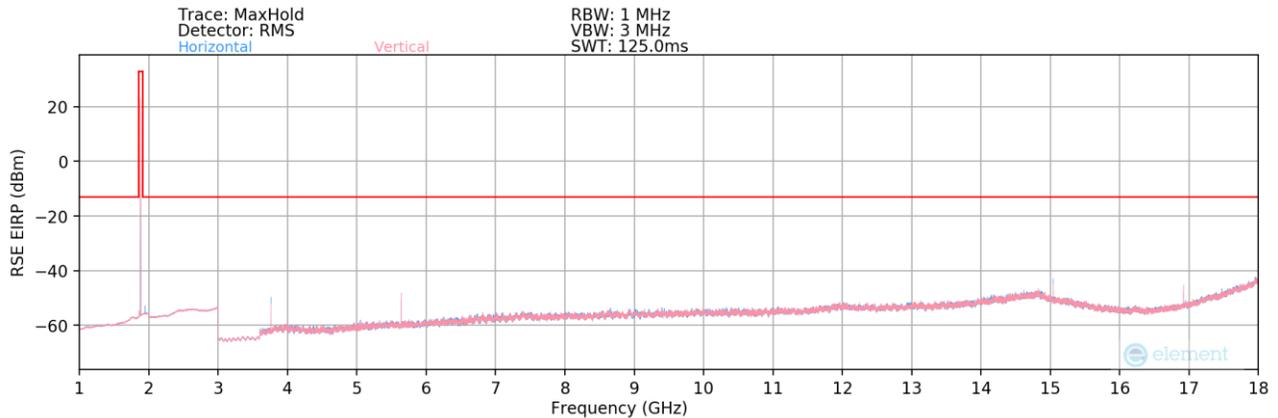


Plot 7-236. Radiated Spurious Plot 30MHz-1GHz (GPRS PCS - Main2)

Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

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]
777.87	H	-	-	-87.50	29.58	49.08	-48.33	-13.00	-35.33

Table 7-29. Radiated Spurious Data 30MHz-1GHz (GPRS PCS – High Channel - Main2)



Plot 7-237. Radiated Spurious Plot 1-18GHz (GPRS PCS - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 149 of 160

Mode:	GPRS
Channel:	512
Frequency (MHz):	1850.2

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]
3700.40	H	152	49	-59.99	-2.74	44.27	-50.99	-13.00	-37.99
5550.60	H	197	142	-52.97	0.11	54.14	-41.12	-13.00	-28.12
7400.80	H	-	-	-73.18	4.82	38.64	-56.62	-13.00	-43.62
9251.00	H	312	144	-74.19	6.82	39.63	-55.63	-13.00	-42.63
11101.20	H	-	-	-75.22	8.11	39.89	-55.37	-13.00	-42.37
12951.40	H	-	-	-75.45	10.22	41.77	-53.49	-13.00	-40.49
14801.60	H	297	72	-66.01	13.36	54.35	-40.91	-13.00	-27.91
16651.80	H	128	320	-62.02	8.26	53.24	-42.02	-13.00	-29.02

Table 7-30. Radiated Spurious Data (GPRS PCS – Low Channel - Main2)

Mode:	GPRS
Channel:	661
Frequency (MHz):	1880

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]
3760.00	H	167	59	-57.78	-1.83	47.39	-47.86	-13.00	-34.86
5640.00	H	185	74	-50.44	0.25	56.81	-38.45	-13.00	-25.45
7520.00	H	271	11	-71.73	3.89	39.16	-56.10	-13.00	-43.10
9400.00	H	136	27	-68.37	6.80	45.43	-49.83	-13.00	-36.83
11280.00	H	-	-	-75.06	8.46	40.40	-54.86	-13.00	-41.86
13160.00	H	-	-	-75.68	10.36	41.68	-53.58	-13.00	-40.58
15040.00	H	231	68	-63.76	12.25	55.49	-39.77	-13.00	-26.77
16920.00	H	157	70	-60.35	9.77	56.42	-38.83	-13.00	-25.83

Table 7-31. Radiated Spurious Data (GPRS PCS – Mid Channel - Main2)

Mode:	GPRS
Channel:	810
Frequency (MHz):	1909.8

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]
3819.60	H	157	53	-55.75	-1.40	49.85	-45.40	-13.00	-32.40
5729.40	H	280	67	-49.07	0.52	58.45	-36.81	-13.00	-23.81
7639.20	H	265	28	-70.02	4.45	41.43	-53.83	-13.00	-40.83
9549.00	H	237	76	-65.53	6.88	48.35	-46.91	-13.00	-33.91
11458.80	H	-	-	-74.94	8.74	40.80	-54.46	-13.00	-41.46
13368.60	H	163	26	-74.45	10.20	42.75	-52.51	-13.00	-39.51
15278.40	H	131	54	-62.90	11.26	55.36	-39.90	-13.00	-26.90
17188.20	H	148	65	-59.21	11.25	59.04	-36.22	-13.00	-23.22

Table 7-32. Radiated Spurious Data (GPRS PCS – High Channel - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2-PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 150 of 160



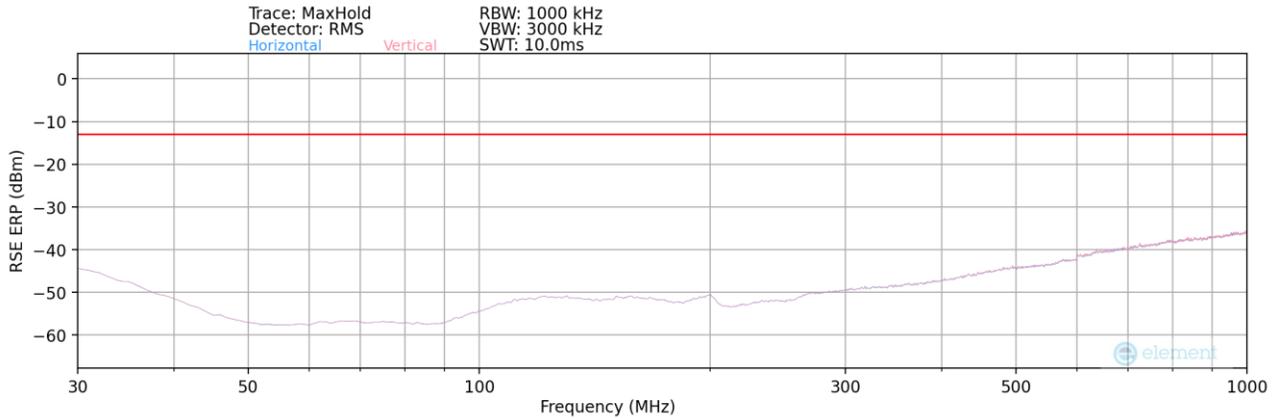
Case:	w/ Wireless Charging Pad
Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

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]
3819.60	H	180	253	-65.32	-1.40	40.28	-54.97	-13.00	-41.97
5729.40	H	184	153	-61.84	0.52	45.68	-49.58	-13.00	-36.58
7639.20	H	152	47	-72.32	4.45	39.13	-56.13	-13.00	-43.13
9549.00	H	156	102	-67.45	6.88	46.43	-48.83	-13.00	-35.83
11458.80	H	-	-	-74.96	8.74	40.78	-54.48	-13.00	-41.48
13368.60	H	145	92	-75.03	10.20	42.17	-53.09	-13.00	-40.09
15278.40	H	135	332	-63.02	11.26	55.24	-40.02	-13.00	-27.02
17188.20	H	117	18	-62.98	11.25	55.27	-39.99	-13.00	-26.99

Table 7-33. Radiated Spurious Data with WCP (GPRS PCS Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS – Main2

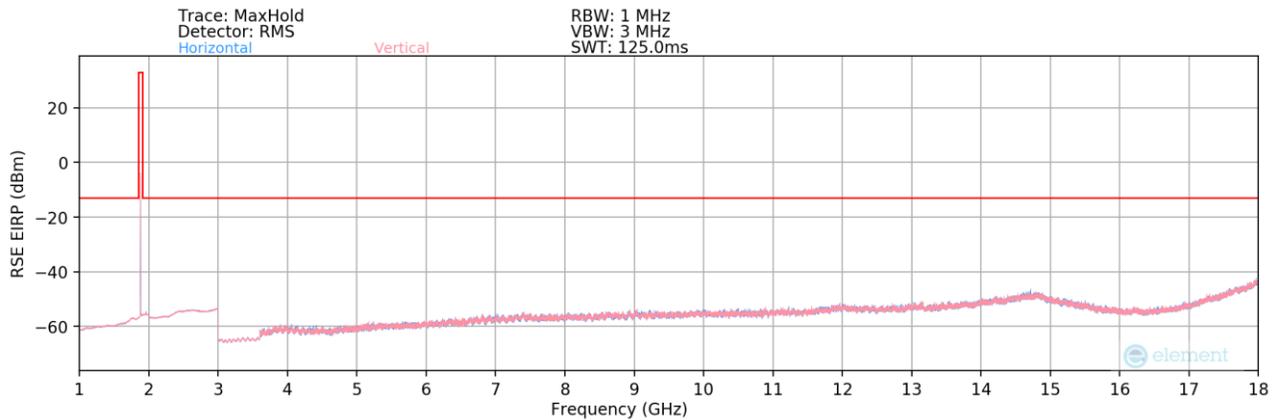


Plot 7-238. Radiated Spurious Plot 30MHz-1GHz (WCDMA PCS - Main2)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
888.60	H	-	-	-95.47	31.09	42.62	-54.79	-13.00	-41.79

Table 7-34. Radiated Spurious Data 30MHz-1GHz (WCDMA PCS – Mid Channel - Main2)



Plot 7-239. Radiated Spurious Plot 1-18GHz (WCDMA PCS - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-02-R2.PY7	Test Dates: 2/8/2023 - 4/19/2023	EUT Type: Portable Handset	Page 152 of 160

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.80	H	-	-	-68.75	-2.69	35.56	-59.69	-13.00	-46.69
5557.20	H	-	-	-69.01	0.12	38.11	-57.14	-13.00	-44.14
7409.60	H	-	-	-69.87	4.71	41.84	-53.41	-13.00	-40.41
9262.00	H	-	-	-70.49	6.90	43.41	-51.85	-13.00	-38.85

Table 7-35. Radiated Spurious Data (WCDMA PCS – Low Channel - Main2)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.00	H	-	-	-69.42	-1.83	35.75	-59.50	-13.00	-46.50
5640.00	H	-	-	-70.11	0.25	37.14	-58.12	-13.00	-45.12
7520.00	H	-	-	-71.24	3.89	39.65	-55.61	-13.00	-42.61
9400.00	H	-	-	-72.33	6.80	41.47	-53.79	-13.00	-40.79

Table 7-36. Radiated Spurious Data (WCDMA PCS – Mid Channel - Main2)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.20	H	-	-	-69.47	-1.44	36.09	-59.16	-13.00	-46.16
5722.80	H	-	-	-70.42	0.53	37.11	-58.15	-13.00	-45.15
7630.40	H	-	-	-71.56	4.45	39.89	-55.37	-13.00	-42.37
9538.00	H	-	-	-72.11	6.87	41.76	-53.50	-13.00	-40.50

Table 7-37. Radiated Spurious Data (WCDMA PCS – High Channel - Main2)

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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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 is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied 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 24, 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.

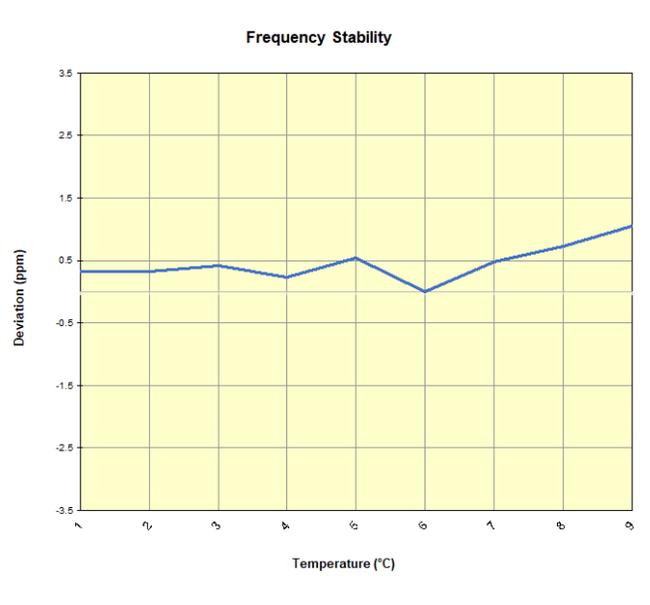
Test Notes

None

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2					
Operating Frequency (Hz):		1,882,500,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,882,500,472	622	0.0000330
		- 20	1,882,500,461	611	0.0000324
		- 10	1,882,500,632	782	0.0000415
		0	1,882,500,283	433	0.0000230
		+ 10	1,882,500,867	1,017	0.0000540
		+ 20 (Ref)	1,882,499,850	0	0.0000000
		+ 30	1,882,500,750	900	0.0000478
		+ 40	1,882,501,224	1,374	0.0000730
Battery Endpoint	3.69	+ 20	1,882,499,787	-63	-0.0000034

Table 7-38. LTE Band 25/2 (Main2) Frequency Stability Data

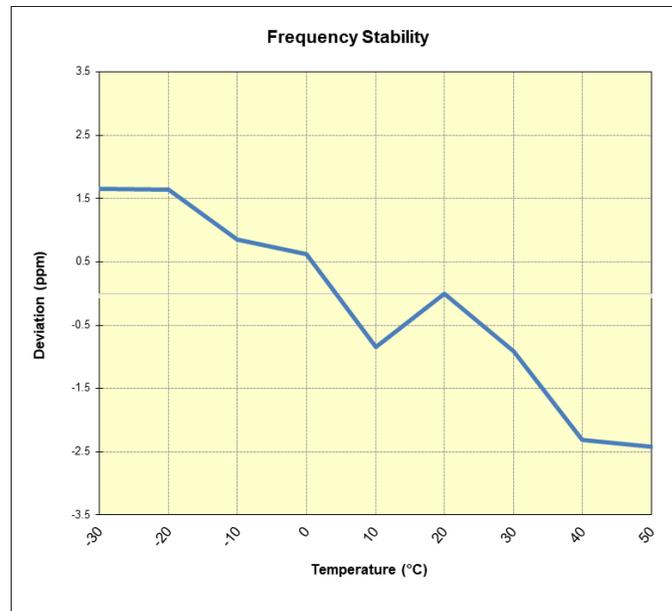


Plot 7-240. LTE Band 25/2 (Main2) Frequency Stability Chart

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LTE Band 2					
Operating Frequency (Hz):		1,880,000,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,880,007,402	3,123	0.0001661
		- 20	1,880,007,379	3,099	0.0001648
		- 10	1,880,005,893	1,613	0.0000858
		0	1,880,005,450	1,170	0.0000622
		+ 10	1,880,002,694	-1,585	-0.0000843
		+ 20 (Ref)	1,880,004,279	0	0.0000000
		+ 30	1,880,002,557	-1,722	-0.0000916
		+ 40	1,879,999,926	-4,353	-0.0002315
		+ 50	1,879,999,733	-4,547	-0.0002418
Battery Endpoint	3.69	+ 20	1,880,006,130	1,850	0.0000984

Table 7-39. LTE Band 2 (Sub) Frequency Stability Data

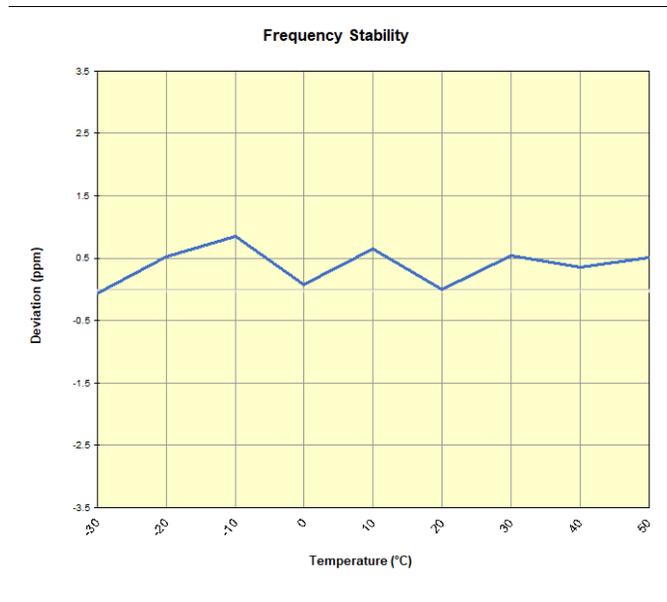


Plot 7-241. LTE Band 2 (Sub) Frequency Stability Chart

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NR Band n25/2					
Operating Frequency (Hz):		1,882,500,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,882,491,744	-123	-0.0000065
		- 20	1,882,492,848	982	0.0000522
		- 10	1,882,493,461	1,595	0.0000847
		0	1,882,492,020	154	0.0000082
		+ 10	1,882,493,083	1,217	0.0000646
		+ 20 (Ref)	1,882,491,866	0	0.0000000
		+ 30	1,882,492,880	1,013	0.0000538
		+ 40	1,882,492,547	681	0.0000362
Battery Endpoint	3.69	+ 20	1,882,491,894	27	0.0000015

Table 7-40. NR Band n25/2 Frequency Stability Data

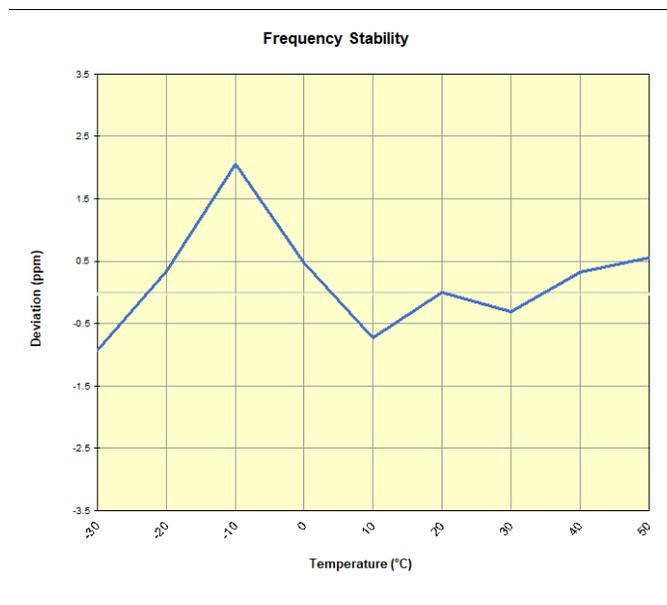


Plot 7-242. NR Band n25/2 Frequency Stability Chart

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GSM/GPRS PCS					
Operating Frequency (Hz):		1,880,000,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,880,000,560	-1,759	-0.0000936
		- 20	1,880,002,959	640	0.0000341
		- 10	1,880,006,194	3,876	0.0002062
		0	1,880,003,218	900	0.0000479
		+ 10	1,880,000,958	-1,360	-0.0000724
		+ 20 (Ref)	1,880,002,319	0	0.0000000
		+ 30	1,880,001,742	-577	-0.0000307
		+ 40	1,880,002,932	613	0.0000326
Battery Endpoint	3.69	+ 20	1,880,000,109	-2,209	-0.0001175

Table 7-41. GPRS PCS Frequency Stability Data

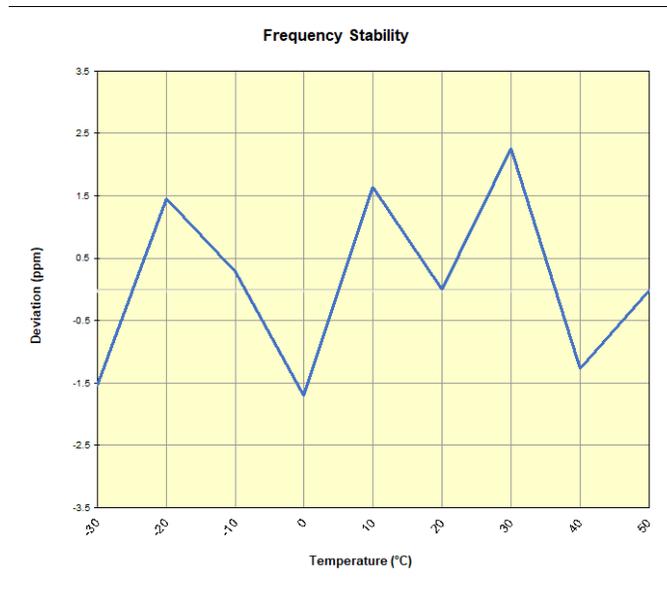


Plot 7-243. GPRS PCS Frequency Stability Chart

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WCDMA PCS					
Operating Frequency (Hz):		1,880,000,000			
Ref. Voltage (VDC):		4.28			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	1,879,998,484	-2,875	-0.0001529
		- 20	1,880,004,085	2,726	0.0001450
		- 10	1,880,001,890	531	0.0000283
		0	1,879,998,161	-3,197	-0.0001701
		+ 10	1,880,004,435	3,077	0.0001637
		+ 20 (Ref)	1,880,001,358	0	0.0000000
		+ 30	1,880,005,612	4,253	0.0002262
		+ 40	1,879,998,968	-2,391	-0.0001272
Battery Endpoint	3.69	+ 20	1,880,002,365	1,006	0.0000535

Table 7-42. WCDMA PCS Frequency Stability Data



Plot 7-244. WCDMA PCS Frequency Stability Chart

FCC ID: PY7-84558E	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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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 24 of the FCC rules.

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