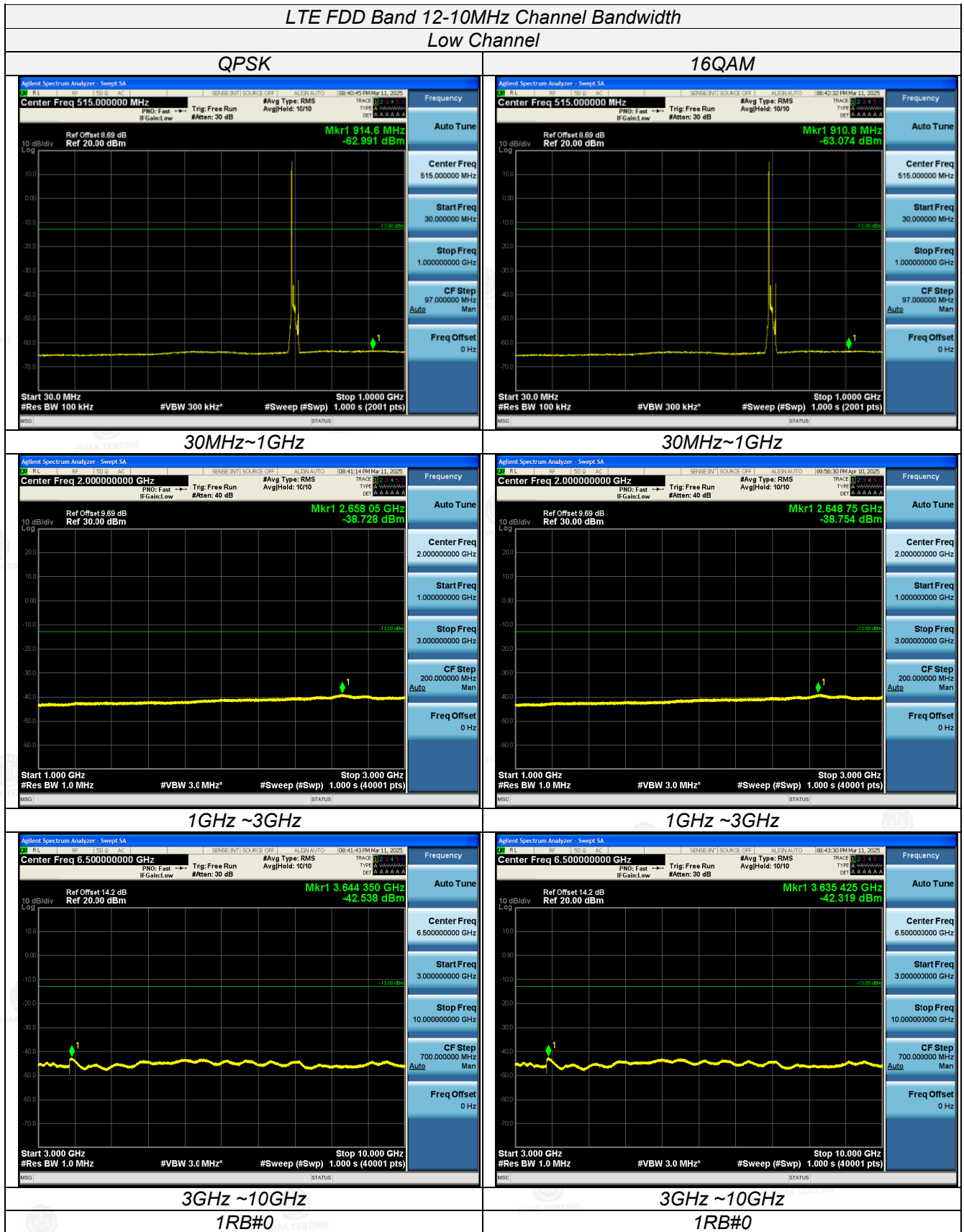
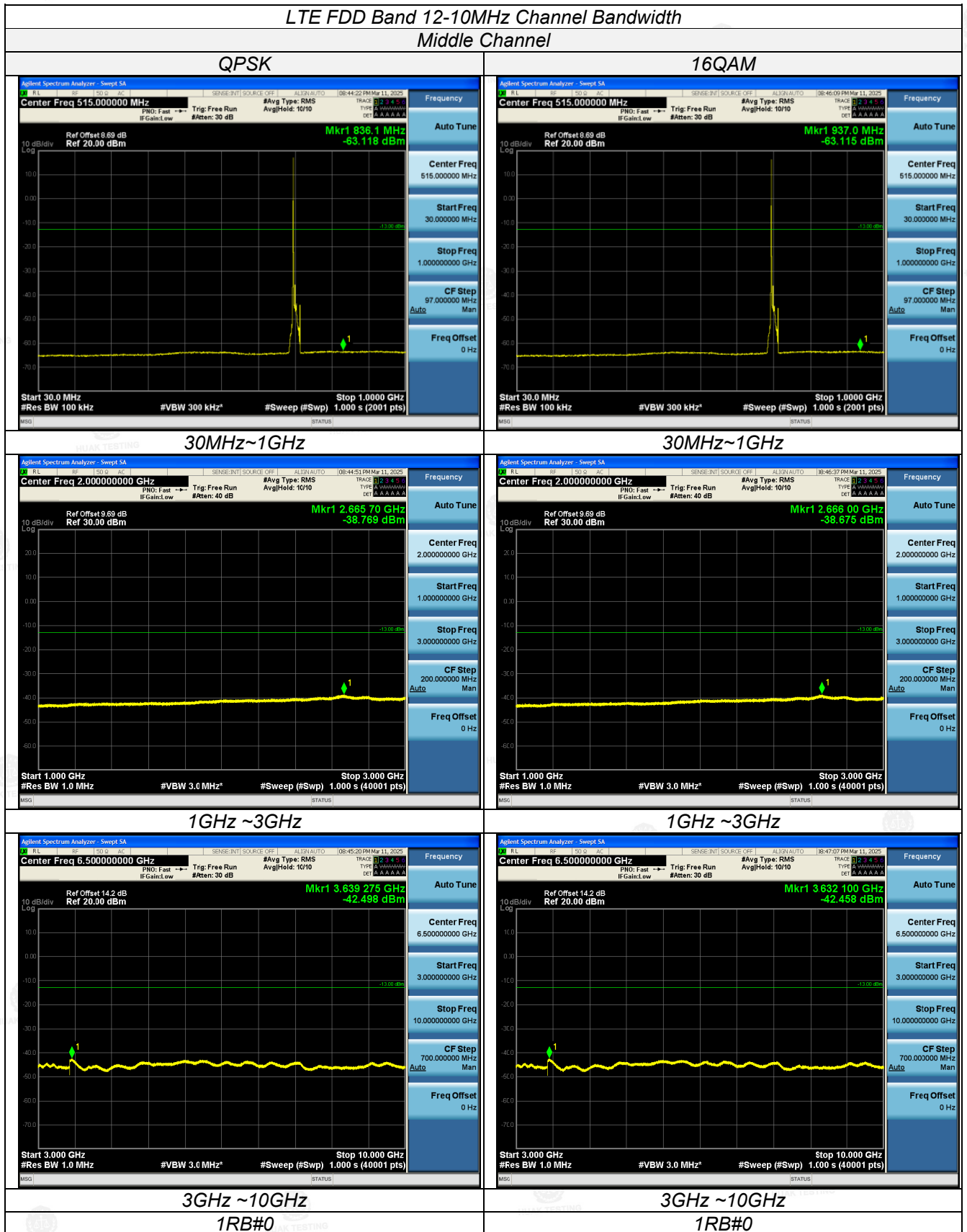
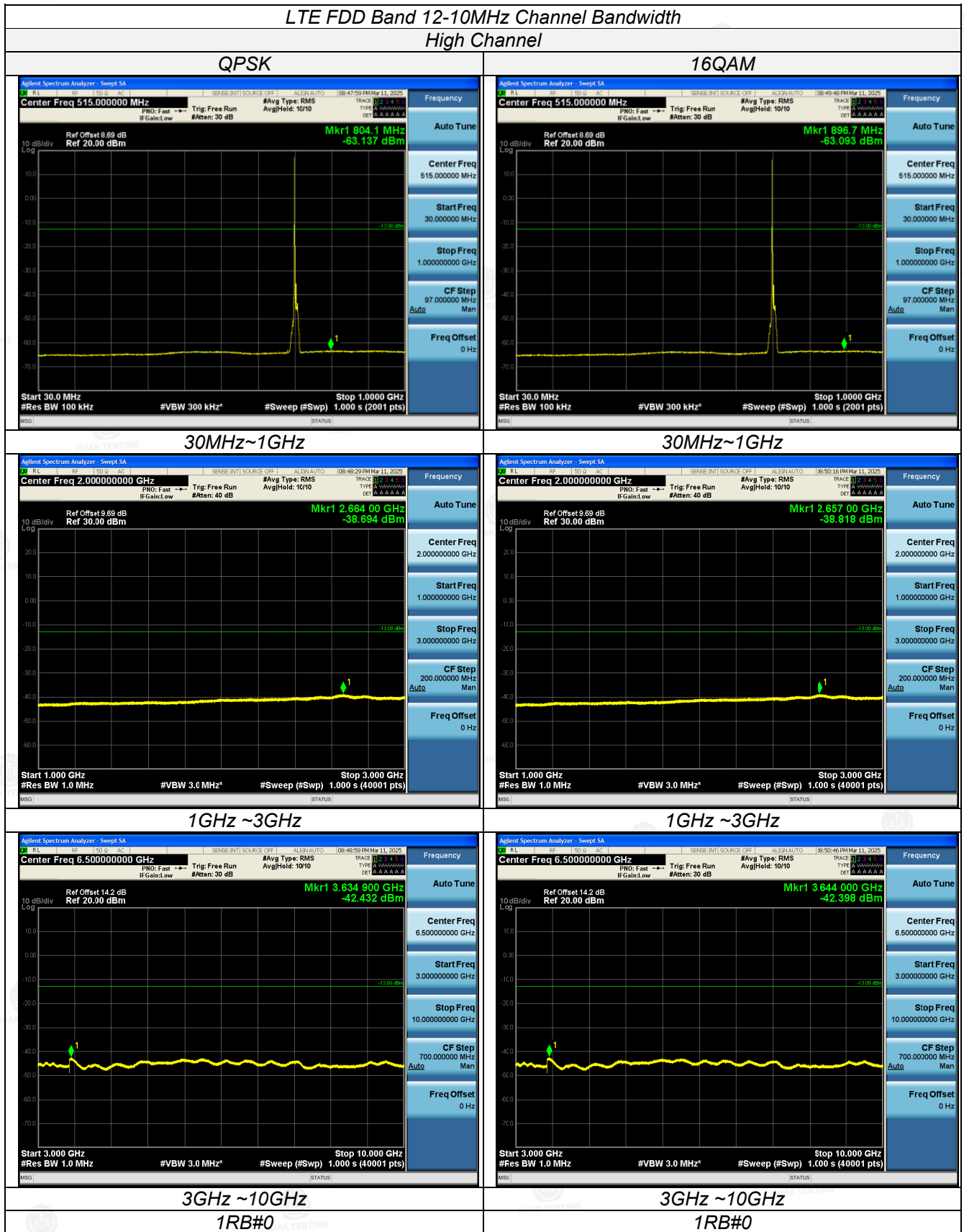






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Radiated Measurement:

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case for each Channel Bandwidth of LTE FDD Band 12.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We were not recorded other points as values lower than limits.
4. $Margin = Limit - EIRP$

Test Model No.: S25 Ultra

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.4	-44.7	2.86	3.00	7.25	-42.46	-13.00	29.46	H
2099.1	-44.83	2.94	3.00	9.53	-40.39	-13.00	27.39	H
1399.4	-47.01	2.86	3.00	7.25	-44.77	-13.00	31.77	V
2099.1	-48.11	2.94	3.00	9.53	-43.67	-13.00	30.67	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-44.84	2.86	3.00	7.25	-42.6	-13.00	29.6	H
2122.5	-44.15	2.94	3.00	9.53	-39.71	-13.00	26.71	H
1415.0	-47.04	2.86	3.00	7.25	-44.8	-13.00	31.8	V
2122.5	-48.35	2.94	3.00	9.53	-43.91	-13.00	30.91	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.49	2.86	3.00	7.25	-43.25	-13.00	30.25	H
2145.9	-43.91	2.94	3.00	9.53	-39.47	-13.00	26.47	H
1430.6	-45.78	2.86	3.00	7.25	-43.54	-13.00	30.54	V
2145.9	-49.89	2.94	3.00	9.53	-45.45	-13.00	32.45	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1401.0	-45.02	2.86	3.00	7.25	-42.78	-13.00	29.78	H
2101.5	-43.63	2.94	3.00	9.53	-39.19	-13.00	26.19	H
1401.0	-47.35	2.86	3.00	7.25	-45.11	-13.00	32.11	V
2101.5	-49.49	2.94	3.00	9.53	-45.05	-13.00	32.05	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-45.93	2.86	3.00	7.25	-43.69	-13.00	30.69	H
2122.5	-46.4	2.94	3.00	9.53	-41.96	-13.00	28.96	H
1415.0	-46.39	2.86	3.00	7.25	-44.15	-13.00	31.15	V
2122.5	-47.25	2.94	3.00	9.53	-42.81	-13.00	29.81	V

*LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK_High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-47.3	2.86	3.00	7.25	-45.06	-13.00	32.06	H
2143.5	-45.86	2.94	3.00	9.53	-41.42	-13.00	28.42	H
1429.0	-47.91	2.86	3.00	7.25	-45.67	-13.00	32.67	V
2143.5	-48.35	2.94	3.00	9.53	-43.91	-13.00	30.91	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1403.0	-45.87	2.86	3.00	7.25	-43.63	-13.00	30.63	H
2104.5	-46.26	2.94	3.00	9.53	-41.82	-13.00	28.82	H
1403.0	-45.72	2.86	3.00	7.25	-43.48	-13.00	30.48	V
2104.5	-49.46	2.94	3.00	9.53	-45.02	-13.00	32.02	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-45.49	2.86	3.00	7.25	-43.25	-13.00	30.25	H
2122.5	-46.15	2.94	3.00	9.53	-41.71	-13.00	28.71	H
1415.0	-45.53	2.86	3.00	7.25	-43.29	-13.00	30.29	V
2122.5	-48.41	2.94	3.00	9.53	-43.97	-13.00	30.97	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-46.35	2.86	3.00	7.25	-44.11	-13.00	31.11	H
2140.5	-45.04	2.94	3.00	9.53	-40.6	-13.00	27.6	H
1427.0	-47.86	2.86	3.00	7.25	-45.62	-13.00	32.62	V
2140.5	-47.27	2.94	3.00	9.53	-42.83	-13.00	29.83	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.0	-45.79	2.86	3.00	7.25	-43.55	-13.00	30.55	H
2112.0	-44.92	2.94	3.00	9.53	-40.48	-13.00	27.48	H
1408.0	-47.17	2.86	3.00	7.25	-44.93	-13.00	31.93	V
2112.0	-49.56	2.94	3.00	9.53	-45.12	-13.00	32.12	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-44.75	2.86	3.00	7.25	-42.51	-13.00	29.51	H
2122.5	-44.76	2.94	3.00	9.53	-40.32	-13.00	27.32	H
1415.0	-45.89	2.86	3.00	7.25	-43.65	-13.00	30.65	V
2122.5	-47.73	2.94	3.00	9.53	-43.29	-13.00	30.29	V

**LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK_High Channel**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-45.75	2.86	3.00	7.25	-43.51	-13.00	30.51	H
2133.0	-46.07	2.94	3.00	9.53	-41.63	-13.00	28.63	H
1422.0	-46.61	2.86	3.00	7.25	-44.37	-13.00	31.37	V
2133.0	-48.77	2.94	3.00	9.53	-44.33	-13.00	31.33	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.4	-45.35	2.86	3.00	7.25	-43.11	-13.00	30.11	H
2099.1	-44.38	2.94	3.00	9.53	-39.94	-13.00	26.94	H
1399.4	-45.93	2.86	3.00	7.25	-43.69	-13.00	30.69	V
2099.1	-48.43	2.94	3.00	9.53	-43.99	-13.00	30.99	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-46.9	2.86	3.00	7.25	-44.66	-13.00	31.66	H
2122.5	-43.99	2.94	3.00	9.53	-39.55	-13.00	26.55	H
1415.0	-46.57	2.86	3.00	7.25	-44.33	-13.00	31.33	V
2122.5	-47.15	2.94	3.00	9.53	-42.71	-13.00	29.71	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-46.96	2.86	3.00	7.25	-44.72	-13.00	31.72	H
2145.9	-46.16	2.94	3.00	9.53	-41.72	-13.00	28.72	H
1430.6	-48.1	2.86	3.00	7.25	-45.86	-13.00	32.86	V
2145.9	-47.21	2.94	3.00	9.53	-42.77	-13.00	29.77	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1401.0	-45.29	2.86	3.00	7.25	-43.05	-13.00	30.05	H
2101.5	-46	2.94	3.00	9.53	-41.56	-13.00	28.56	H
1401.0	-45.96	2.86	3.00	7.25	-43.72	-13.00	30.72	V
2101.5	-48.94	2.94	3.00	9.53	-44.5	-13.00	31.5	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-47.13	2.86	3.00	7.25	-44.89	-13.00	31.89	H
2122.5	-45.69	2.94	3.00	9.53	-41.25	-13.00	28.25	H
1415.0	-46.35	2.86	3.00	7.25	-44.11	-13.00	31.11	V
2122.5	-47.87	2.94	3.00	9.53	-43.43	-13.00	30.43	V

**LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM_High Channel**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.97	2.86	3.00	7.25	-42.73	-13.00	29.73	H
2143.5	-44.43	2.94	3.00	9.53	-39.99	-13.00	26.99	H
1429.0	-46.01	2.86	3.00	7.25	-43.77	-13.00	30.77	V
2143.5	-49	2.94	3.00	9.53	-44.56	-13.00	31.56	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1403.0	-47.11	2.86	3.00	7.25	-44.87	-13.00	31.87	H
2104.5	-43.64	2.94	3.00	9.53	-39.2	-13.00	26.2	H
1403.0	-47.22	2.86	3.00	7.25	-44.98	-13.00	31.98	V
2104.5	-48.16	2.94	3.00	9.53	-43.72	-13.00	30.72	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-46.08	2.86	3.00	7.25	-43.84	-13.00	30.84	H
2122.5	-43.93	2.94	3.00	9.53	-39.49	-13.00	26.49	H
1415.0	-46.77	2.86	3.00	7.25	-44.53	-13.00	31.53	V
2122.5	-48.66	2.94	3.00	9.53	-44.22	-13.00	31.22	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.15	2.86	3.00	7.25	-42.91	-13.00	29.91	H
2140.5	-44.3	2.94	3.00	9.53	-39.86	-13.00	26.86	H
1427.0	-46.7	2.86	3.00	7.25	-44.46	-13.00	31.46	V
2140.5	-47.27	2.94	3.00	9.53	-42.83	-13.00	29.83	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.0	-46.87	2.86	3.00	7.25	-44.63	-13.00	31.63	H
2112.0	-46.28	2.94	3.00	9.53	-41.84	-13.00	28.84	H
1408.0	-48.06	2.86	3.00	7.25	-45.82	-13.00	32.82	V
2112.0	-49.36	2.94	3.00	9.53	-44.92	-13.00	31.92	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-45.22	2.86	3.00	7.25	-42.98	-13.00	29.98	H
2122.5	-43.72	2.94	3.00	9.53	-39.28	-13.00	26.28	H
1415.0	-45.73	2.86	3.00	7.25	-43.49	-13.00	30.49	V
2122.5	-47.2	2.94	3.00	9.53	-42.76	-13.00	29.76	V

**LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM_High Channel**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-45.22	2.86	3.00	7.25	-42.98	-13.00	29.98	H
2133.0	-45.3	2.94	3.00	9.53	-40.86	-13.00	27.86	H
1422.0	-47.41	2.86	3.00	7.25	-45.17	-13.00	32.17	V
2133.0	-48.26	2.94	3.00	9.53	-43.82	-13.00	30.82	V

All modes of operation were investigated and the worst-case emissions are reported.

Series Model No.: R12 pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-44.71	2.86	3.00	7.25	-42.47	-13.00	29.47	H
2145.9	-45.44	2.94	3.00	9.53	-41	-13.00	28	H
1430.6	-47.79	2.86	3.00	7.25	-45.55	-13.00	32.55	V
2145.9	-48.65	2.94	3.00	9.53	-44.21	-13.00	31.21	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.65	2.86	3.00	7.25	-42.41	-13.00	29.41	H
2143.5	-44.16	2.94	3.00	9.53	-39.72	-13.00	26.72	H
1429.0	-46.08	2.86	3.00	7.25	-43.84	-13.00	30.84	V
2143.5	-49.34	2.94	3.00	9.53	-44.9	-13.00	31.9	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-46	2.86	3.00	7.25	-43.76	-13.00	30.76	H
2140.5	-44.27	2.94	3.00	9.53	-39.83	-13.00	26.83	H
1427.0	-45.29	2.86	3.00	7.25	-43.05	-13.00	30.05	V
2140.5	-47.28	2.94	3.00	9.53	-42.84	-13.00	29.84	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46.72	2.86	3.00	7.25	-44.48	-13.00	31.48	H
2133.0	-44.49	2.94	3.00	9.53	-40.05	-13.00	27.05	H
1422.0	-45.19	2.86	3.00	7.25	-42.95	-13.00	29.95	V
2133.0	-47.26	2.94	3.00	9.53	-42.82	-13.00	29.82	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.15	2.86	3.00	7.25	-42.91	-13.00	29.91	H
2145.9	-44.61	2.94	3.00	9.53	-40.17	-13.00	27.17	H
1430.6	-47.12	2.86	3.00	7.25	-44.88	-13.00	31.88	V
2145.9	-49.52	2.94	3.00	9.53	-45.08	-13.00	32.08	V

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**LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-46.39	2.86	3.00	7.25	-44.15	-13.00	31.15	H
2143.5	-45.32	2.94	3.00	9.53	-40.88	-13.00	27.88	H
1429.0	-45.5	2.86	3.00	7.25	-43.26	-13.00	30.26	V
2143.5	-47.46	2.94	3.00	9.53	-43.02	-13.00	30.02	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.22	2.86	3.00	7.25	-42.98	-13.00	29.98	H
2140.5	-45.56	2.94	3.00	9.53	-41.12	-13.00	28.12	H
1427.0	-46.73	2.86	3.00	7.25	-44.49	-13.00	31.49	V
2140.5	-47.45	2.94	3.00	9.53	-43.01	-13.00	30.01	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46.81	2.86	3.00	7.25	-44.57	-13.00	31.57	H
2133.0	-43.91	2.94	3.00	9.53	-39.47	-13.00	26.47	H
1422.0	-48.03	2.86	3.00	7.25	-45.79	-13.00	32.79	V
2133.0	-47.5	2.94	3.00	9.53	-43.06	-13.00	30.06	V

Series Model No.: P5 pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.52	2.86	3.00	7.25	-43.28	-13.00	30.28	H
2145.9	-43.95	2.94	3.00	9.53	-39.51	-13.00	26.51	H
1430.6	-46.53	2.86	3.00	7.25	-44.29	-13.00	31.29	V
2145.9	-47.36	2.94	3.00	9.53	-42.92	-13.00	29.92	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-46.86	2.86	3.00	7.25	-44.62	-13.00	31.62	H
2143.5	-43.82	2.94	3.00	9.53	-39.38	-13.00	26.38	H
1429.0	-47.17	2.86	3.00	7.25	-44.93	-13.00	31.93	V
2143.5	-48.68	2.94	3.00	9.53	-44.24	-13.00	31.24	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.35	2.86	3.00	7.25	-43.11	-13.00	30.11	H
2140.5	-45.64	2.94	3.00	9.53	-41.2	-13.00	28.2	H
1427.0	-46.51	2.86	3.00	7.25	-44.27	-13.00	31.27	V
2140.5	-49.99	2.94	3.00	9.53	-45.55	-13.00	32.55	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-44.85	2.86	3.00	7.25	-42.61	-13.00	29.61	H
2133.0	-43.53	2.94	3.00	9.53	-39.09	-13.00	26.09	H
1422.0	-47.24	2.86	3.00	7.25	-45	-13.00	32	V
2133.0	-47.97	2.94	3.00	9.53	-43.53	-13.00	30.53	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-47.06	2.86	3.00	7.25	-44.82	-13.00	31.82	H
2145.9	-46.05	2.94	3.00	9.53	-41.61	-13.00	28.61	H
1430.6	-47.82	2.86	3.00	7.25	-45.58	-13.00	32.58	V
2145.9	-49.98	2.94	3.00	9.53	-45.54	-13.00	32.54	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-46.61	2.86	3.00	7.25	-44.37	-13.00	31.37	H
2143.5	-43.59	2.94	3.00	9.53	-39.15	-13.00	26.15	H
1429.0	-45.74	2.86	3.00	7.25	-43.5	-13.00	30.5	V
2143.5	-48.19	2.94	3.00	9.53	-43.75	-13.00	30.75	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-44.88	2.86	3.00	7.25	-42.64	-13.00	29.64	H
2140.5	-44.62	2.94	3.00	9.53	-40.18	-13.00	27.18	H
1427.0	-45.46	2.86	3.00	7.25	-43.22	-13.00	30.22	V
2140.5	-49.15	2.94	3.00	9.53	-44.71	-13.00	31.71	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-47.44	2.86	3.00	7.25	-45.2	-13.00	32.2	H
2133.0	-46.31	2.94	3.00	9.53	-41.87	-13.00	28.87	H
1422.0	-47.98	2.86	3.00	7.25	-45.74	-13.00	32.74	V
2133.0	-47.88	2.94	3.00	9.53	-43.44	-13.00	30.44	V

Series Model No.: E50 Ultra

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.14	2.86	3.00	7.25	-42.9	-13.00	29.9	H
2145.9	-45.88	2.94	3.00	9.53	-41.44	-13.00	28.44	H
1430.6	-46.49	2.86	3.00	7.25	-44.25	-13.00	31.25	V
2145.9	-48.17	2.94	3.00	9.53	-43.73	-13.00	30.73	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.51	2.86	3.00	7.25	-42.27	-13.00	29.27	H
2143.5	-45.07	2.94	3.00	9.53	-40.63	-13.00	27.63	H
1429.0	-46	2.86	3.00	7.25	-43.76	-13.00	30.76	V
2143.5	-48.13	2.94	3.00	9.53	-43.69	-13.00	30.69	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-47.41	2.86	3.00	7.25	-45.17	-13.00	32.17	H
2140.5	-43.83	2.94	3.00	9.53	-39.39	-13.00	26.39	H
1427.0	-48.07	2.86	3.00	7.25	-45.83	-13.00	32.83	V
2140.5	-48.78	2.94	3.00	9.53	-44.34	-13.00	31.34	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-45.11	2.86	3.00	7.25	-42.87	-13.00	29.87	H
2133.0	-44.17	2.94	3.00	9.53	-39.73	-13.00	26.73	H
1422.0	-45.51	2.86	3.00	7.25	-43.27	-13.00	30.27	V
2133.0	-49.18	2.94	3.00	9.53	-44.74	-13.00	31.74	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-44.74	2.86	3.00	7.25	-42.5	-13.00	29.5	H
2145.9	-43.74	2.94	3.00	9.53	-39.3	-13.00	26.3	H
1430.6	-46.06	2.86	3.00	7.25	-43.82	-13.00	30.82	V
2145.9	-49.62	2.94	3.00	9.53	-45.18	-13.00	32.18	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.1	2.86	3.00	7.25	-42.86	-13.00	29.86	H
2143.5	-46.07	2.94	3.00	9.53	-41.63	-13.00	28.63	H
1429.0	-45.97	2.86	3.00	7.25	-43.73	-13.00	30.73	V
2143.5	-49.92	2.94	3.00	9.53	-45.48	-13.00	32.48	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-44.9	2.86	3.00	7.25	-42.66	-13.00	29.66	H
2140.5	-45.81	2.94	3.00	9.53	-41.37	-13.00	28.37	H
1427.0	-45.72	2.86	3.00	7.25	-43.48	-13.00	30.48	V
2140.5	-49.11	2.94	3.00	9.53	-44.67	-13.00	31.67	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46	2.86	3.00	7.25	-43.76	-13.00	30.76	H
2133.0	-45.17	2.94	3.00	9.53	-40.73	-13.00	27.73	H
1422.0	-45.68	2.86	3.00	7.25	-43.44	-13.00	30.44	V
2133.0	-47.52	2.94	3.00	9.53	-43.08	-13.00	30.08	V

Series Model No.: I16 pro max

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.59	2.86	3.00	7.25	-43.35	-13.00	30.35	H
2145.9	-45	2.94	3.00	9.53	-40.56	-13.00	27.56	H
1430.6	-47.16	2.86	3.00	7.25	-44.92	-13.00	31.92	V
2145.9	-49.9	2.94	3.00	9.53	-45.46	-13.00	32.46	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.56	2.86	3.00	7.25	-43.32	-13.00	30.32	H
2143.5	-43.58	2.94	3.00	9.53	-39.14	-13.00	26.14	H
1429.0	-45.66	2.86	3.00	7.25	-43.42	-13.00	30.42	V
2143.5	-48.27	2.94	3.00	9.53	-43.83	-13.00	30.83	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-47.46	2.86	3.00	7.25	-45.22	-13.00	32.22	H
2140.5	-45.89	2.94	3.00	9.53	-41.45	-13.00	28.45	H
1427.0	-48.08	2.86	3.00	7.25	-45.84	-13.00	32.84	V
2140.5	-48.24	2.94	3.00	9.53	-43.8	-13.00	30.8	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-44.9	2.86	3.00	7.25	-42.66	-13.00	29.66	H
2133.0	-46.31	2.94	3.00	9.53	-41.87	-13.00	28.87	H
1422.0	-46.83	2.86	3.00	7.25	-44.59	-13.00	31.59	V
2133.0	-48.2	2.94	3.00	9.53	-43.76	-13.00	30.76	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.71	2.86	3.00	7.25	-43.47	-13.00	30.47	H
2145.9	-45.82	2.94	3.00	9.53	-41.38	-13.00	28.38	H
1430.6	-47.29	2.86	3.00	7.25	-45.05	-13.00	32.05	V
2145.9	-49.44	2.94	3.00	9.53	-45	-13.00	32	V

**LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.91	2.86	3.00	7.25	-42.67	-13.00	29.67	H
2143.5	-45.42	2.94	3.00	9.53	-40.98	-13.00	27.98	H
1429.0	-46.6	2.86	3.00	7.25	-44.36	-13.00	31.36	V
2143.5	-49.52	2.94	3.00	9.53	-45.08	-13.00	32.08	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-44.58	2.86	3.00	7.25	-42.34	-13.00	29.34	H
2140.5	-45.85	2.94	3.00	9.53	-41.41	-13.00	28.41	H
1427.0	-47.46	2.86	3.00	7.25	-45.22	-13.00	32.22	V
2140.5	-47.63	2.94	3.00	9.53	-43.19	-13.00	30.19	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46.73	2.86	3.00	7.25	-44.49	-13.00	31.49	H
2133.0	-43.82	2.94	3.00	9.53	-39.38	-13.00	26.38	H
1422.0	-46.3	2.86	3.00	7.25	-44.06	-13.00	31.06	V
2133.0	-47.47	2.94	3.00	9.53	-43.03	-13.00	30.03	V

Series Model No.: P6 pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-46.47	2.86	3.00	7.25	-44.23	-13.00	31.23	H
2145.9	-43.97	2.94	3.00	9.53	-39.53	-13.00	26.53	H
1430.6	-47.4	2.86	3.00	7.25	-45.16	-13.00	32.16	V
2145.9	-48.89	2.94	3.00	9.53	-44.45	-13.00	31.45	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.07	2.86	3.00	7.25	-42.83	-13.00	29.83	H
2143.5	-44.4	2.94	3.00	9.53	-39.96	-13.00	26.96	H
1429.0	-47.89	2.86	3.00	7.25	-45.65	-13.00	32.65	V
2143.5	-48.98	2.94	3.00	9.53	-44.54	-13.00	31.54	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.89	2.86	3.00	7.25	-43.65	-13.00	30.65	H
2140.5	-43.66	2.94	3.00	9.53	-39.22	-13.00	26.22	H
1427.0	-48.09	2.86	3.00	7.25	-45.85	-13.00	32.85	V
2140.5	-48.33	2.94	3.00	9.53	-43.89	-13.00	30.89	V

**LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-47.35	2.86	3.00	7.25	-45.11	-13.00	32.11	H
2133.0	-46.19	2.94	3.00	9.53	-41.75	-13.00	28.75	H
1422.0	-47.05	2.86	3.00	7.25	-44.81	-13.00	31.81	V
2133.0	-49	2.94	3.00	9.53	-44.56	-13.00	31.56	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-46	2.86	3.00	7.25	-43.76	-13.00	30.76	H
2145.9	-46.24	2.94	3.00	9.53	-41.8	-13.00	28.8	H
1430.6	-46.79	2.86	3.00	7.25	-44.55	-13.00	31.55	V
2145.9	-47.71	2.94	3.00	9.53	-43.27	-13.00	30.27	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-46.65	2.86	3.00	7.25	-44.41	-13.00	31.41	H
2143.5	-45.94	2.94	3.00	9.53	-41.5	-13.00	28.5	H
1429.0	-45.43	2.86	3.00	7.25	-43.19	-13.00	30.19	V
2143.5	-47.61	2.94	3.00	9.53	-43.17	-13.00	30.17	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-44.98	2.86	3.00	7.25	-42.74	-13.00	29.74	H
2140.5	-44.61	2.94	3.00	9.53	-40.17	-13.00	27.17	H
1427.0	-47.11	2.86	3.00	7.25	-44.87	-13.00	31.87	V
2140.5	-47.21	2.94	3.00	9.53	-42.77	-13.00	29.77	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46.6	2.86	3.00	7.25	-44.36	-13.00	31.36	H
2133.0	-46.13	2.94	3.00	9.53	-41.69	-13.00	28.69	H
1422.0	-46.34	2.86	3.00	7.25	-44.1	-13.00	31.1	V
2133.0	-48.55	2.94	3.00	9.53	-44.11	-13.00	31.11	V

Series Model No.: Sp20 Pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-46.04	2.86	3.00	7.25	-43.8	-13.00	30.8	H
2145.9	-45.55	2.94	3.00	9.53	-41.11	-13.00	28.11	H
1430.6	-46.96	2.86	3.00	7.25	-44.72	-13.00	31.72	V
2145.9	-47.9	2.94	3.00	9.53	-43.46	-13.00	30.46	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.39	2.86	3.00	7.25	-43.15	-13.00	30.15	H
2143.5	-45.05	2.94	3.00	9.53	-40.61	-13.00	27.61	H
1429.0	-47.63	2.86	3.00	7.25	-45.39	-13.00	32.39	V
2143.5	-47.16	2.94	3.00	9.53	-42.72	-13.00	29.72	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-47.06	2.86	3.00	7.25	-44.82	-13.00	31.82	H
2140.5	-46.13	2.94	3.00	9.53	-41.69	-13.00	28.69	H
1427.0	-47.94	2.86	3.00	7.25	-45.7	-13.00	32.7	V
2140.5	-48.34	2.94	3.00	9.53	-43.9	-13.00	30.9	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-47.04	2.86	3.00	7.25	-44.8	-13.00	31.8	H
2133.0	-44.4	2.94	3.00	9.53	-39.96	-13.00	26.96	H
1422.0	-47.32	2.86	3.00	7.25	-45.08	-13.00	32.08	V
2133.0	-47.76	2.94	3.00	9.53	-43.32	-13.00	30.32	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-44.83	2.86	3.00	7.25	-42.59	-13.00	29.59	H
2145.9	-45.91	2.94	3.00	9.53	-41.47	-13.00	28.47	H
1430.6	-47.74	2.86	3.00	7.25	-45.5	-13.00	32.5	V
2145.9	-49.43	2.94	3.00	9.53	-44.99	-13.00	31.99	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.93	2.86	3.00	7.25	-42.69	-13.00	29.69	H
2143.5	-45.34	2.94	3.00	9.53	-40.9	-13.00	27.9	H
1429.0	-47.22	2.86	3.00	7.25	-44.98	-13.00	31.98	V
2143.5	-49.08	2.94	3.00	9.53	-44.64	-13.00	31.64	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.57	2.86	3.00	7.25	-43.33	-13.00	30.33	H
2140.5	-45.31	2.94	3.00	9.53	-40.87	-13.00	27.87	H
1427.0	-45.54	2.86	3.00	7.25	-43.3	-13.00	30.3	V
2140.5	-48.19	2.94	3.00	9.53	-43.75	-13.00	30.75	V

**LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-45.82	2.86	3.00	7.25	-43.58	-13.00	30.58	H
2133.0	-45.1	2.94	3.00	9.53	-40.66	-13.00	27.66	H
1422.0	-46.33	2.86	3.00	7.25	-44.09	-13.00	31.09	V
2133.0	-48.28	2.94	3.00	9.53	-43.84	-13.00	30.84	V

Series Model No.: OP12 pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-44.97	2.86	3.00	7.25	-42.73	-13.00	29.73	H
2145.9	-44.11	2.94	3.00	9.53	-39.67	-13.00	26.67	H
1430.6	-47.32	2.86	3.00	7.25	-45.08	-13.00	32.08	V
2145.9	-49.01	2.94	3.00	9.53	-44.57	-13.00	31.57	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.61	2.86	3.00	7.25	-43.37	-13.00	30.37	H
2143.5	-46.08	2.94	3.00	9.53	-41.64	-13.00	28.64	H
1429.0	-47.41	2.86	3.00	7.25	-45.17	-13.00	32.17	V
2143.5	-49.79	2.94	3.00	9.53	-45.35	-13.00	32.35	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.6	2.86	3.00	7.25	-43.36	-13.00	30.36	H
2140.5	-44.69	2.94	3.00	9.53	-40.25	-13.00	27.25	H
1427.0	-46.27	2.86	3.00	7.25	-44.03	-13.00	31.03	V
2140.5	-49.7	2.94	3.00	9.53	-45.26	-13.00	32.26	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-44.65	2.86	3.00	7.25	-42.41	-13.00	29.41	H
2133.0	-44.88	2.94	3.00	9.53	-40.44	-13.00	27.44	H
1422.0	-46.52	2.86	3.00	7.25	-44.28	-13.00	31.28	V
2133.0	-47.39	2.94	3.00	9.53	-42.95	-13.00	29.95	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.98	2.86	3.00	7.25	-43.74	-13.00	30.74	H
2145.9	-45.08	2.94	3.00	9.53	-40.64	-13.00	27.64	H
1430.6	-45.19	2.86	3.00	7.25	-42.95	-13.00	29.95	V
2145.9	-48.86	2.94	3.00	9.53	-44.42	-13.00	31.42	V

**LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.74	2.86	3.00	7.25	-43.5	-13.00	30.5	H
2143.5	-46.25	2.94	3.00	9.53	-41.81	-13.00	28.81	H
1429.0	-46.91	2.86	3.00	7.25	-44.67	-13.00	31.67	V
2143.5	-47.21	2.94	3.00	9.53	-42.77	-13.00	29.77	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-46.01	2.86	3.00	7.25	-43.77	-13.00	30.77	H
2140.5	-44.79	2.94	3.00	9.53	-40.35	-13.00	27.35	H
1427.0	-47.45	2.86	3.00	7.25	-45.21	-13.00	32.21	V
2140.5	-48.78	2.94	3.00	9.53	-44.34	-13.00	31.34	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-47.27	2.86	3.00	7.25	-45.03	-13.00	32.03	H
2133.0	-43.95	2.94	3.00	9.53	-39.51	-13.00	26.51	H
1422.0	-45.2	2.86	3.00	7.25	-42.96	-13.00	29.96	V
2133.0	-47.55	2.94	3.00	9.53	-43.11	-13.00	30.11	V

Series Model No.: T3 Pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.43	2.86	3.00	7.25	-43.19	-13.00	30.19	H
2145.9	-44.43	2.94	3.00	9.53	-39.99	-13.00	26.99	H
1430.6	-45.4	2.86	3.00	7.25	-43.16	-13.00	30.16	V
2145.9	-49.13	2.94	3.00	9.53	-44.69	-13.00	31.69	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-47.21	2.86	3.00	7.25	-44.97	-13.00	31.97	H
2143.5	-45.59	2.94	3.00	9.53	-41.15	-13.00	28.15	H
1429.0	-46.69	2.86	3.00	7.25	-44.45	-13.00	31.45	V
2143.5	-48.45	2.94	3.00	9.53	-44.01	-13.00	31.01	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.1	2.86	3.00	7.25	-42.86	-13.00	29.86	H
2140.5	-45.78	2.94	3.00	9.53	-41.34	-13.00	28.34	H
1427.0	-46.66	2.86	3.00	7.25	-44.42	-13.00	31.42	V
2140.5	-49.5	2.94	3.00	9.53	-45.06	-13.00	32.06	V

**LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-46.15	2.86	3.00	7.25	-43.91	-13.00	30.91	H
2133.0	-45.99	2.94	3.00	9.53	-41.55	-13.00	28.55	H
1422.0	-45.4	2.86	3.00	7.25	-43.16	-13.00	30.16	V
2133.0	-49.51	2.94	3.00	9.53	-45.07	-13.00	32.07	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.25	2.86	3.00	7.25	-43.01	-13.00	30.01	H
2145.9	-45.24	2.94	3.00	9.53	-40.8	-13.00	27.8	H
1430.6	-45.47	2.86	3.00	7.25	-43.23	-13.00	30.23	V
2145.9	-48.53	2.94	3.00	9.53	-44.09	-13.00	31.09	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-45.02	2.86	3.00	7.25	-42.78	-13.00	29.78	H
2143.5	-44.31	2.94	3.00	9.53	-39.87	-13.00	26.87	H
1429.0	-48	2.86	3.00	7.25	-45.76	-13.00	32.76	V
2143.5	-49.53	2.94	3.00	9.53	-45.09	-13.00	32.09	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-47.08	2.86	3.00	7.25	-44.84	-13.00	31.84	H
2140.5	-45.82	2.94	3.00	9.53	-41.38	-13.00	28.38	H
1427.0	-47.35	2.86	3.00	7.25	-45.11	-13.00	32.11	V
2140.5	-47.4	2.94	3.00	9.53	-42.96	-13.00	29.96	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-45.28	2.86	3.00	7.25	-43.04	-13.00	30.04	H
2133.0	-44.34	2.94	3.00	9.53	-39.9	-13.00	26.9	H
1422.0	-45.6	2.86	3.00	7.25	-43.36	-13.00	30.36	V
2133.0	-49.08	2.94	3.00	9.53	-44.64	-13.00	31.64	V

Series Model No.: P8 Pro

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-45.78	2.86	3.00	7.25	-43.54	-13.00	30.54	H
2145.9	-46.48	2.94	3.00	9.53	-42.04	-13.00	29.04	H
1430.6	-45.29	2.86	3.00	7.25	-43.05	-13.00	30.05	V
2145.9	-49.48	2.94	3.00	9.53	-45.04	-13.00	32.04	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-44.8	2.86	3.00	7.25	-42.56	-13.00	29.56	H
2143.5	-44.06	2.94	3.00	9.53	-39.62	-13.00	26.62	H
1429.0	-45.27	2.86	3.00	7.25	-43.03	-13.00	30.03	V
2143.5	-49.53	2.94	3.00	9.53	-45.09	-13.00	32.09	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-45.69	2.86	3.00	7.25	-43.45	-13.00	30.45	H
2140.5	-44.6	2.94	3.00	9.53	-40.16	-13.00	27.16	H
1427.0	-46.51	2.86	3.00	7.25	-44.27	-13.00	31.27	V
2140.5	-48.58	2.94	3.00	9.53	-44.14	-13.00	31.14	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-44.94	2.86	3.00	7.25	-42.7	-13.00	29.7	H
2133.0	-46.44	2.94	3.00	9.53	-42	-13.00	29	H
1422.0	-47.28	2.86	3.00	7.25	-45.04	-13.00	32.04	V
2133.0	-48.9	2.94	3.00	9.53	-44.46	-13.00	31.46	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-44.83	2.86	3.00	7.25	-42.59	-13.00	29.59	H
2145.9	-44.31	2.94	3.00	9.53	-39.87	-13.00	26.87	H
1430.6	-45.58	2.86	3.00	7.25	-43.34	-13.00	30.34	V
2145.9	-47.58	2.94	3.00	9.53	-43.14	-13.00	30.14	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-47.06	2.86	3.00	7.25	-44.82	-13.00	31.82	H
2143.5	-45.16	2.94	3.00	9.53	-40.72	-13.00	27.72	H
1429.0	-46.77	2.86	3.00	7.25	-44.53	-13.00	31.53	V
2143.5	-49.14	2.94	3.00	9.53	-44.7	-13.00	31.7	V

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LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-46.24	2.86	3.00	7.25	-44	-13.00	31	H
2140.5	-46.01	2.94	3.00	9.53	-41.57	-13.00	28.57	H
1427.0	-45.84	2.86	3.00	7.25	-43.6	-13.00	30.6	V
2140.5	-47.26	2.94	3.00	9.53	-42.82	-13.00	29.82	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

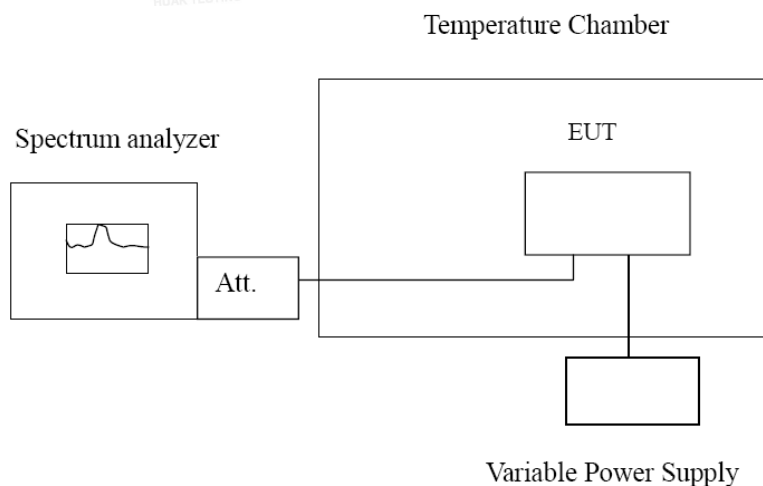
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-44.83	2.86	3.00	7.25	-42.59	-13.00	29.59	H
2133.0	-43.89	2.94	3.00	9.53	-39.45	-13.00	26.45	H
1422.0	-47.45	2.86	3.00	7.25	-45.21	-13.00	32.21	V
2133.0	-47.79	2.94	3.00	9.53	-43.35	-13.00	30.35	V

3.6 Frequency Stability Under Temperature & Voltage Variations

LIMIT

the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 12, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case.

LTE Band 12, 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

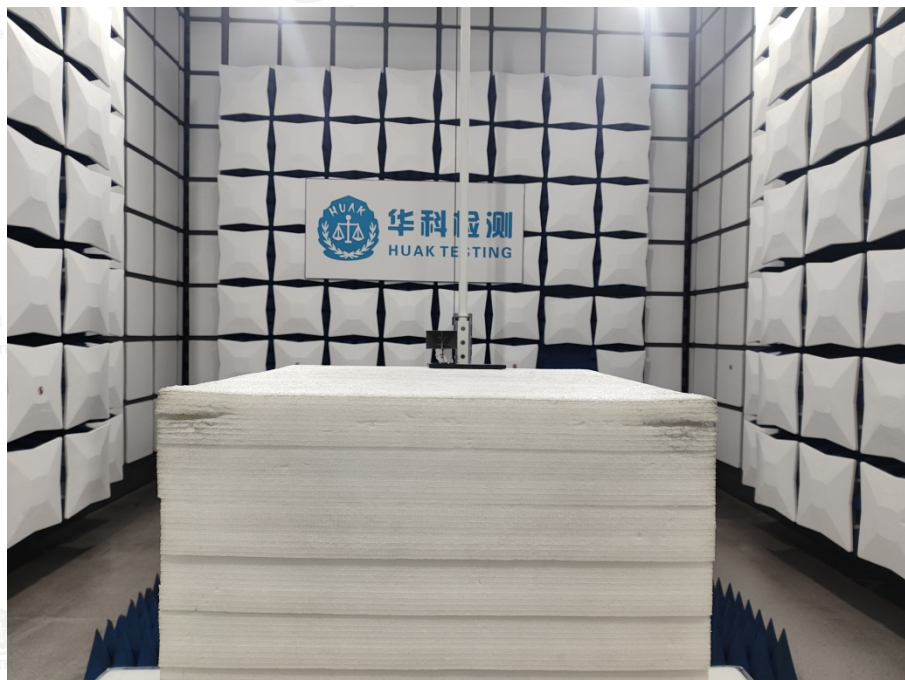
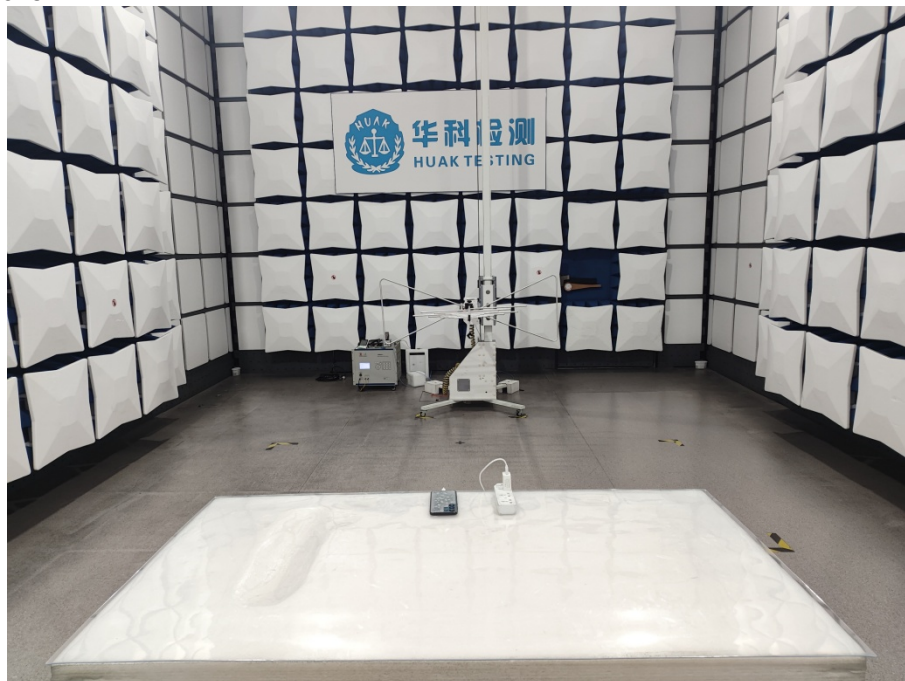
Voltage (V)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
10.2V	-8.08	-11.39	-0.011548	-0.016278
12V	-3.65	-12.06	-0.005217	-0.017236
13.8V	-4.81	-10.54	-0.006874	-0.015064

Frequency Error vs Temperature

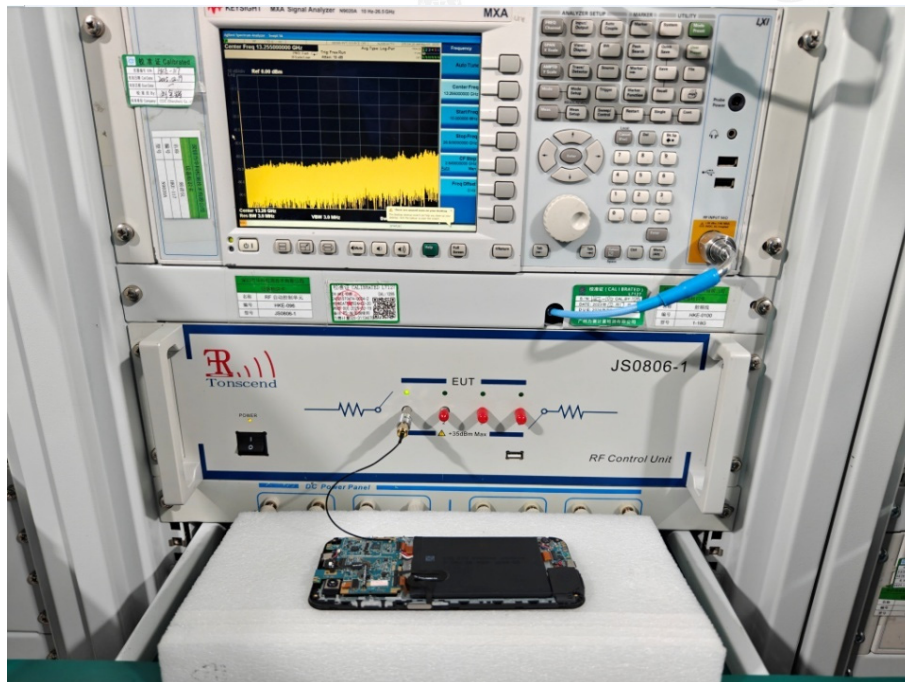
Temperature (°C)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
-30°	-6.44	-9.76	-0.009102	-0.013795
-20°	-9.88	-9.37	-0.013965	-0.013244
-10°	-9.28	-9.34	-0.013117	-0.013201
0°	-8.81	-12.72	-0.012452	-0.017979
10°	-12.04	2.55	-0.017018	0.003604
20°	-6.65	-12.96	-0.009399	-0.018318
30°	-8.33	-5.15	-0.011774	-0.007279
40°	-4.43	-9.58	-0.006261	-0.013541
50°	-6.77	-5.38	-0.009569	-0.007604

4 Test Setup Photos of the EUT

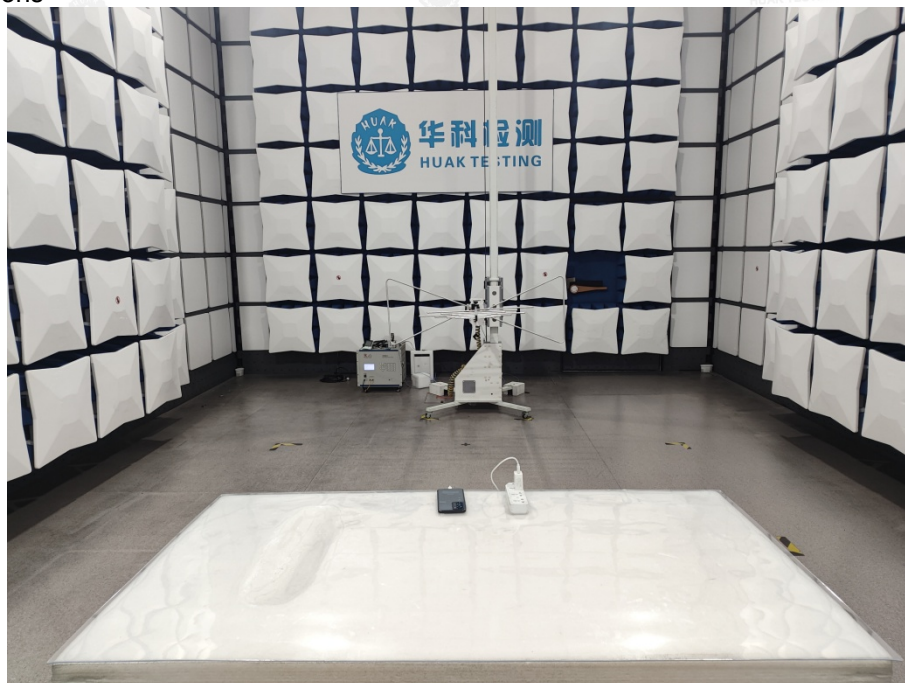
Test Model No.: S25 Ultra
Radiated Emissions



RF Conducted Emission



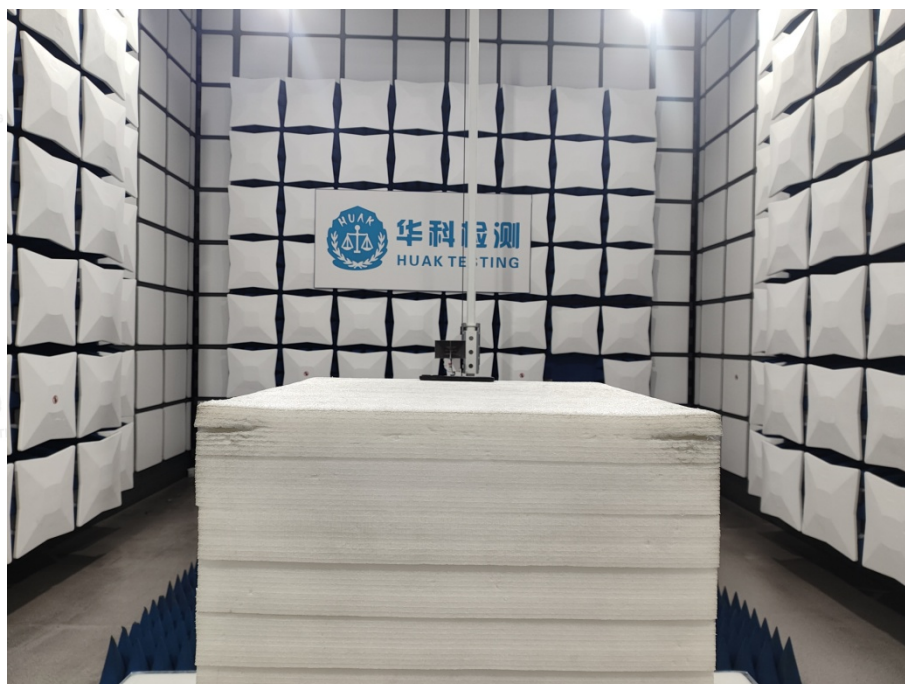
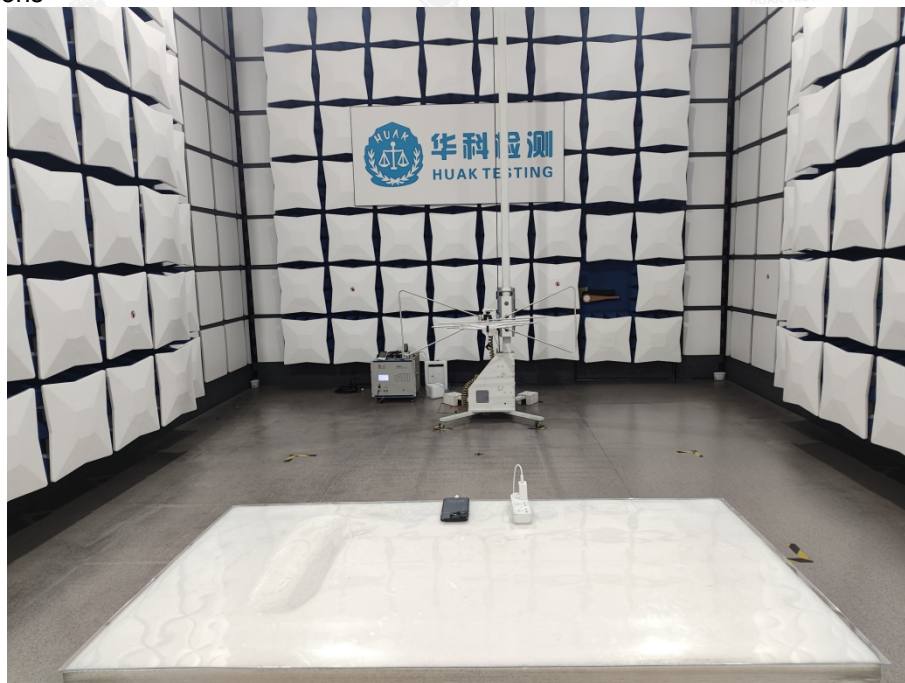
Series Model No.: R12 pro
Radiated Emissions



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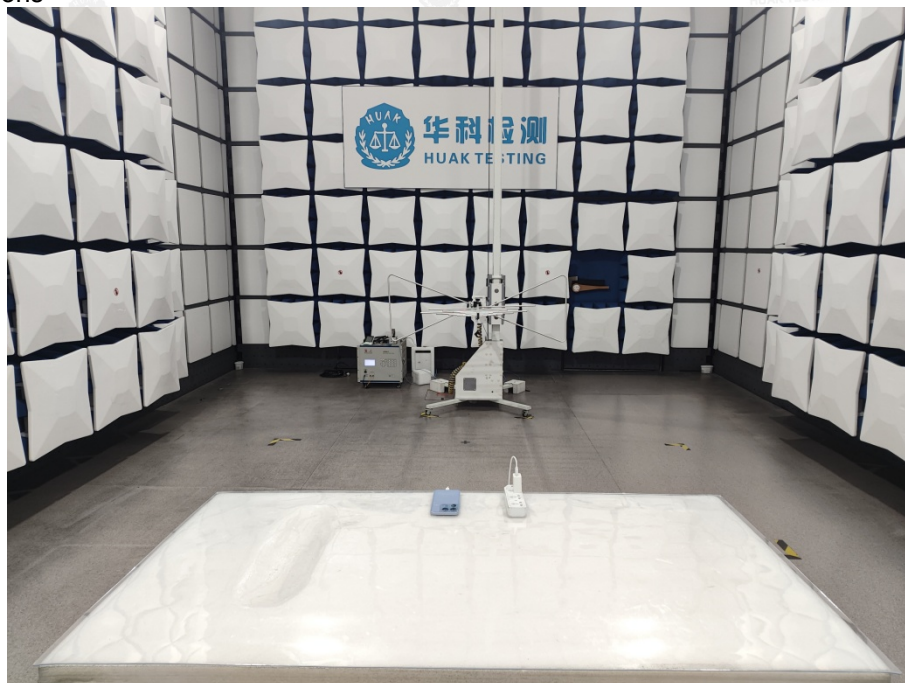
Series Model No.: P5 pro
Radiated Emissions



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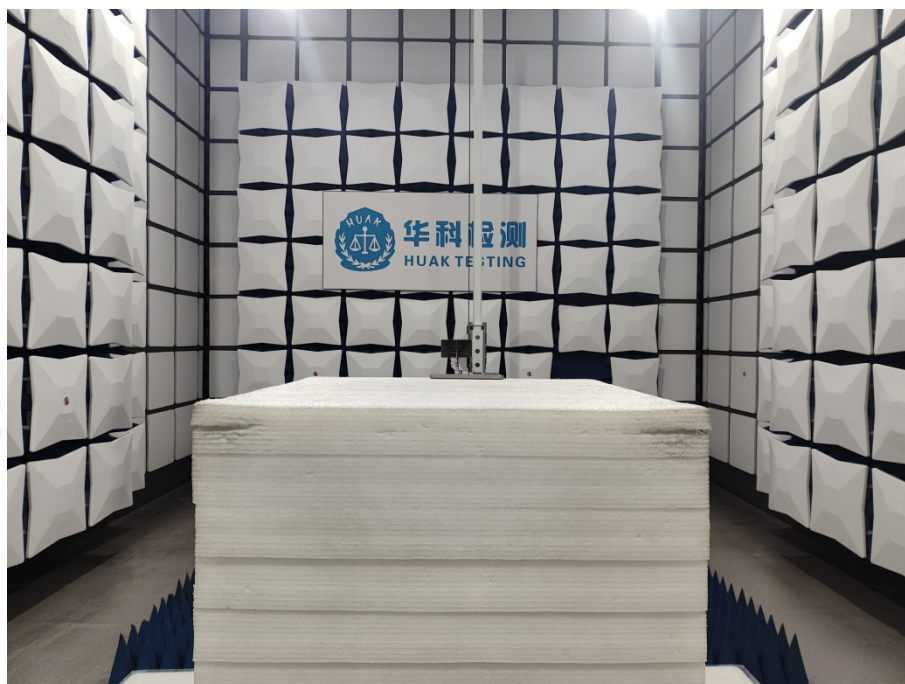
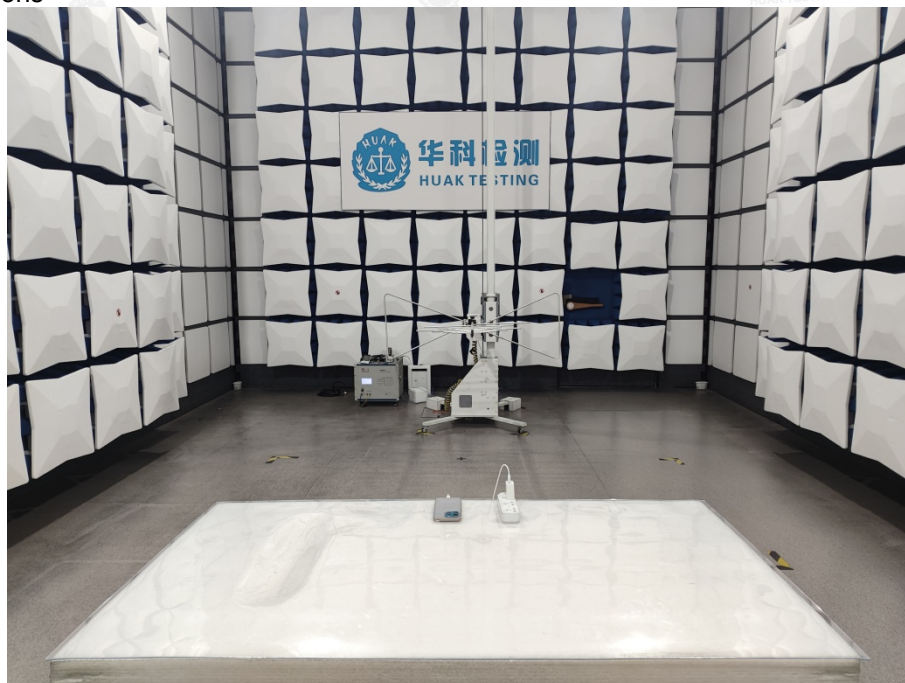
Series Model No.: E50 Ultra
Radiated Emissions



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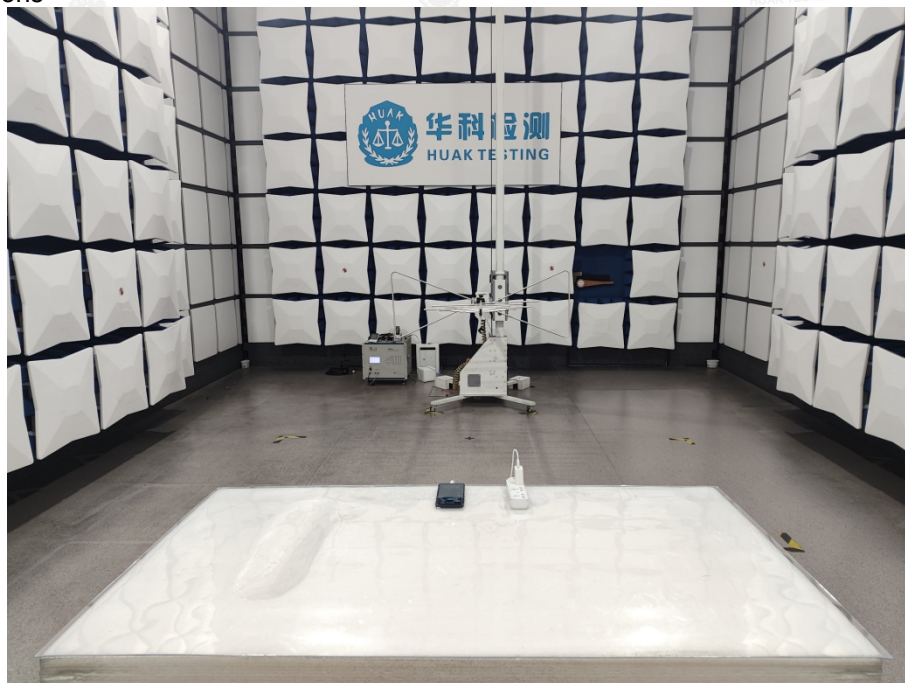
Series Model No.: I16 pro max
Radiated Emissions



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Series Model No.: P6 pro
Radiated Emissions



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