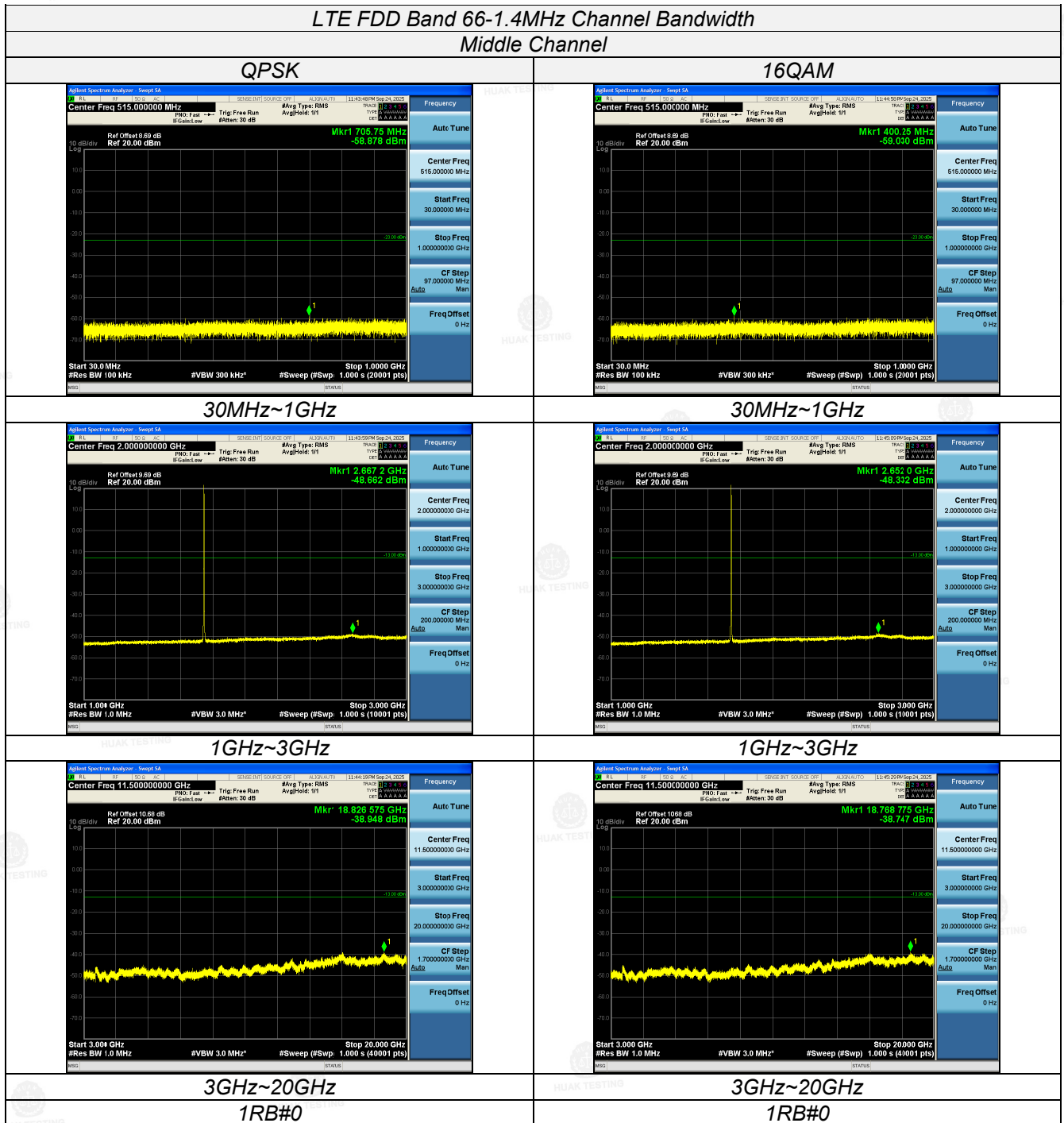
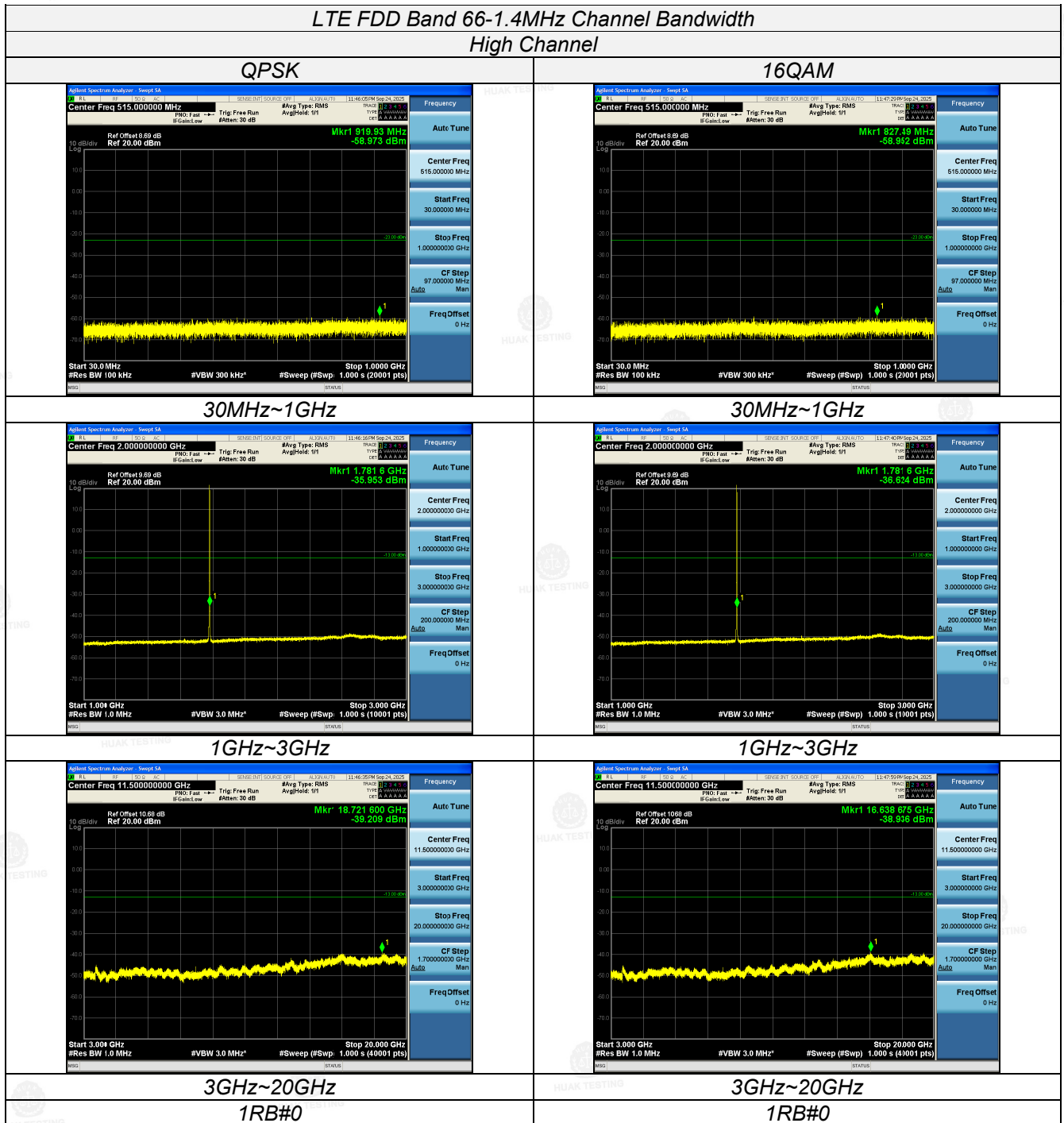


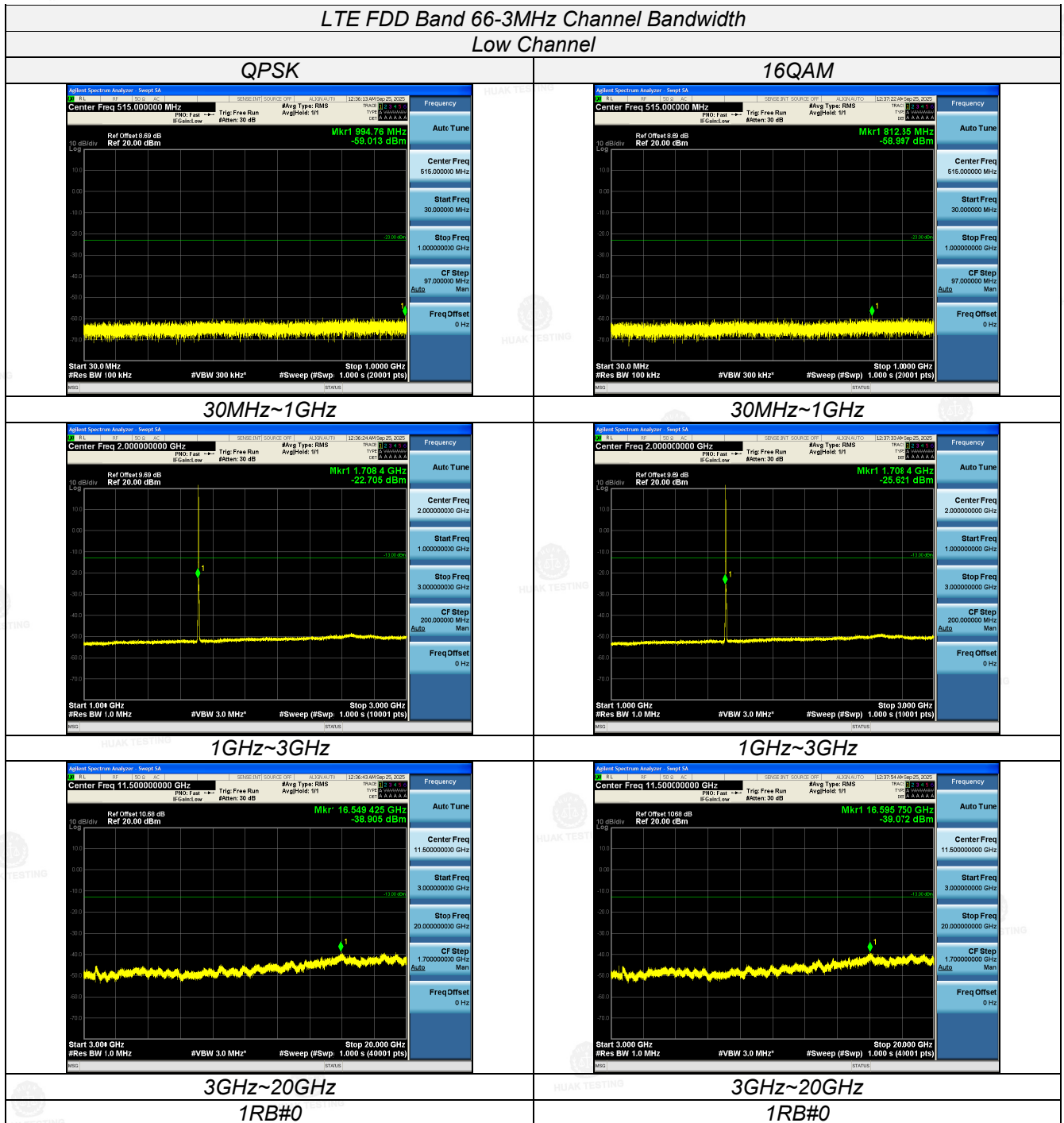


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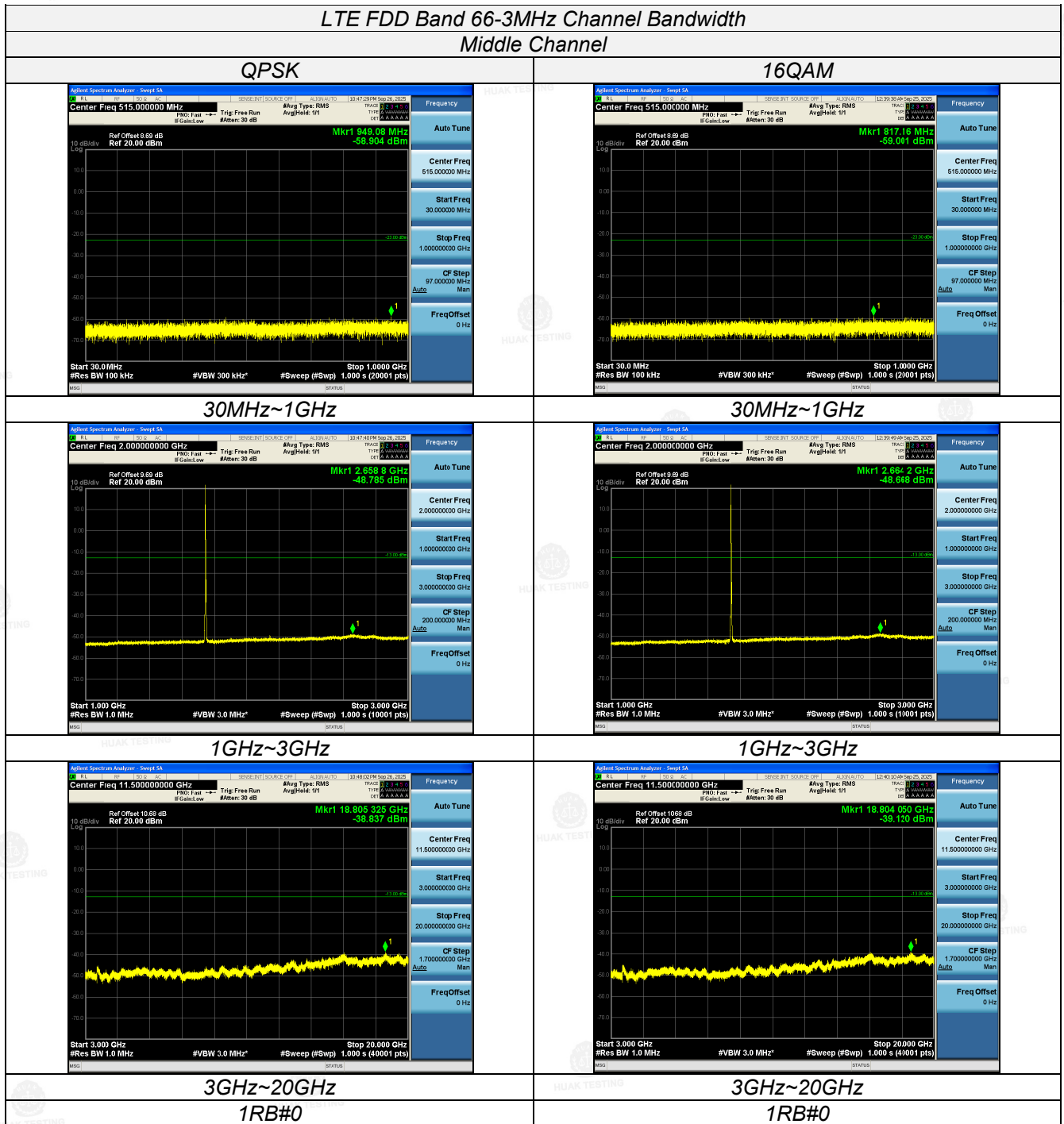
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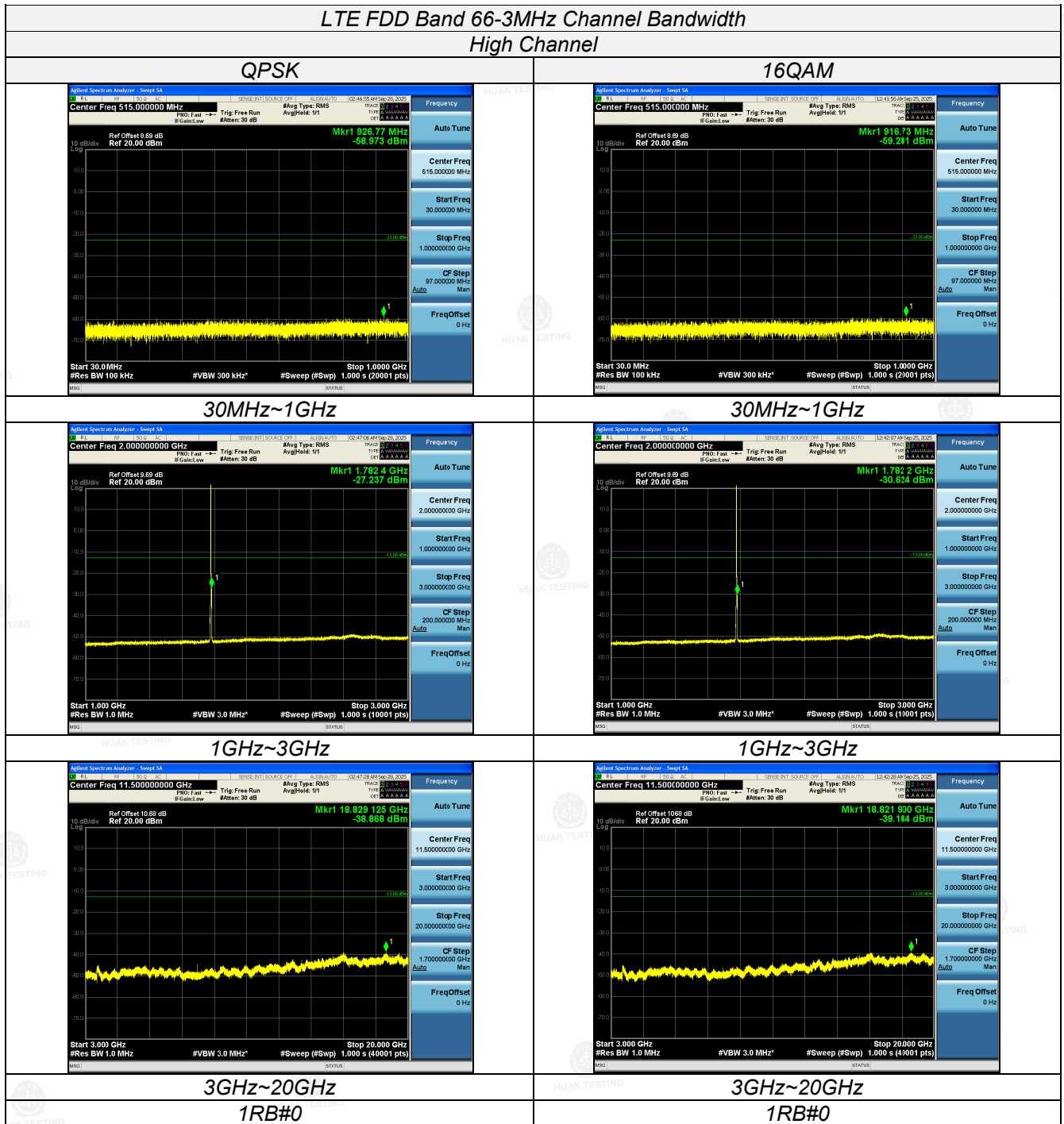
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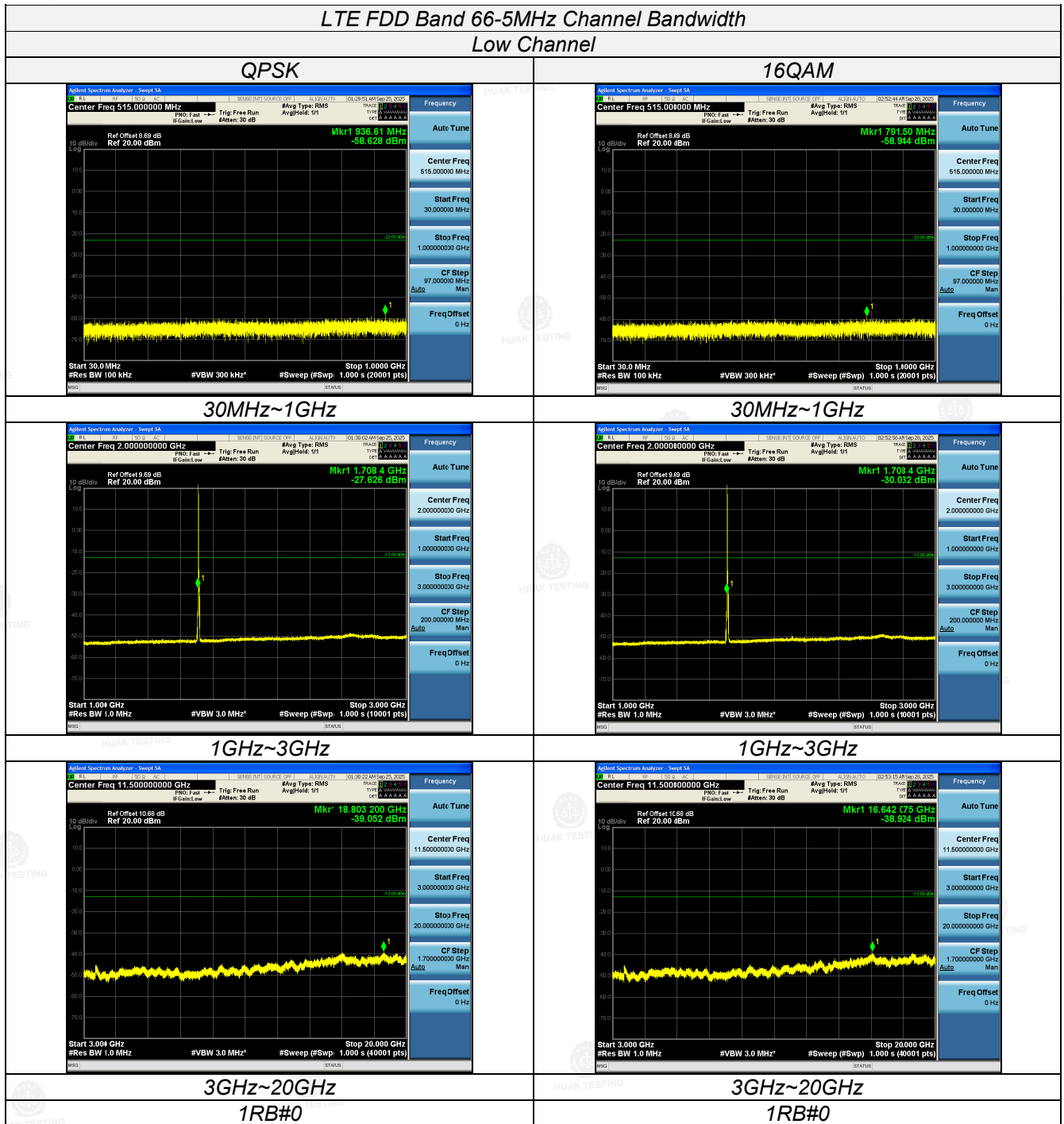
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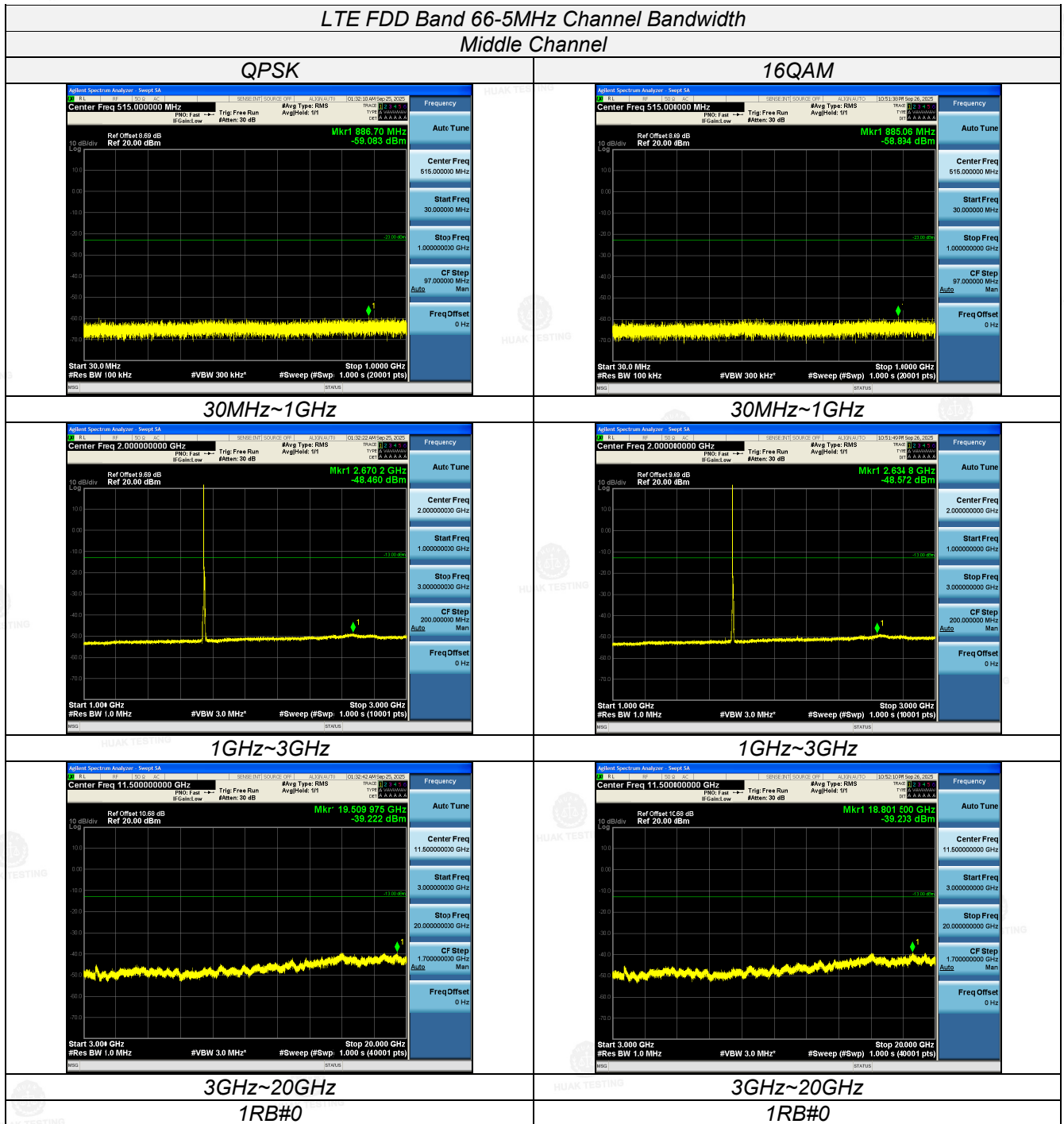


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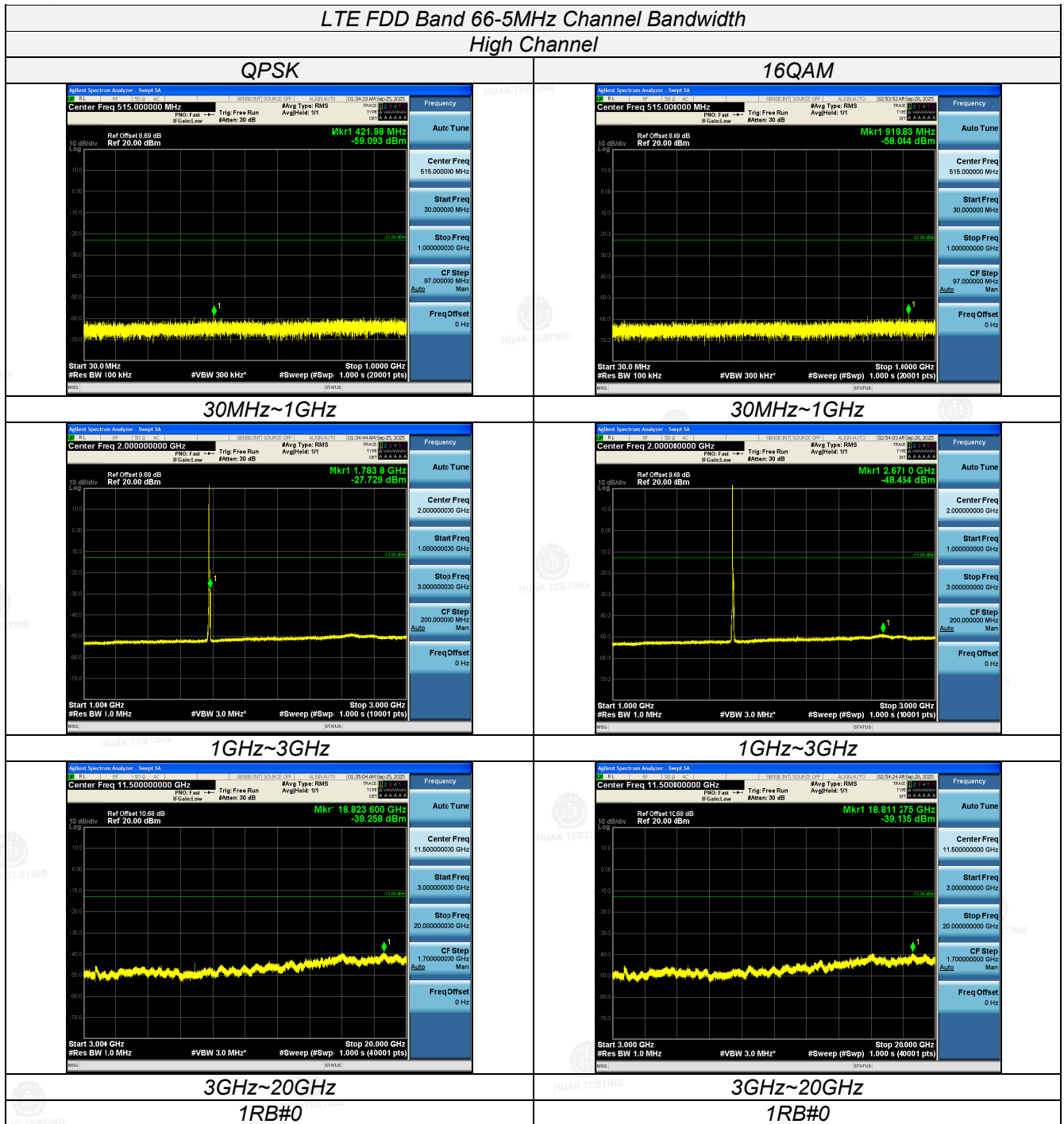
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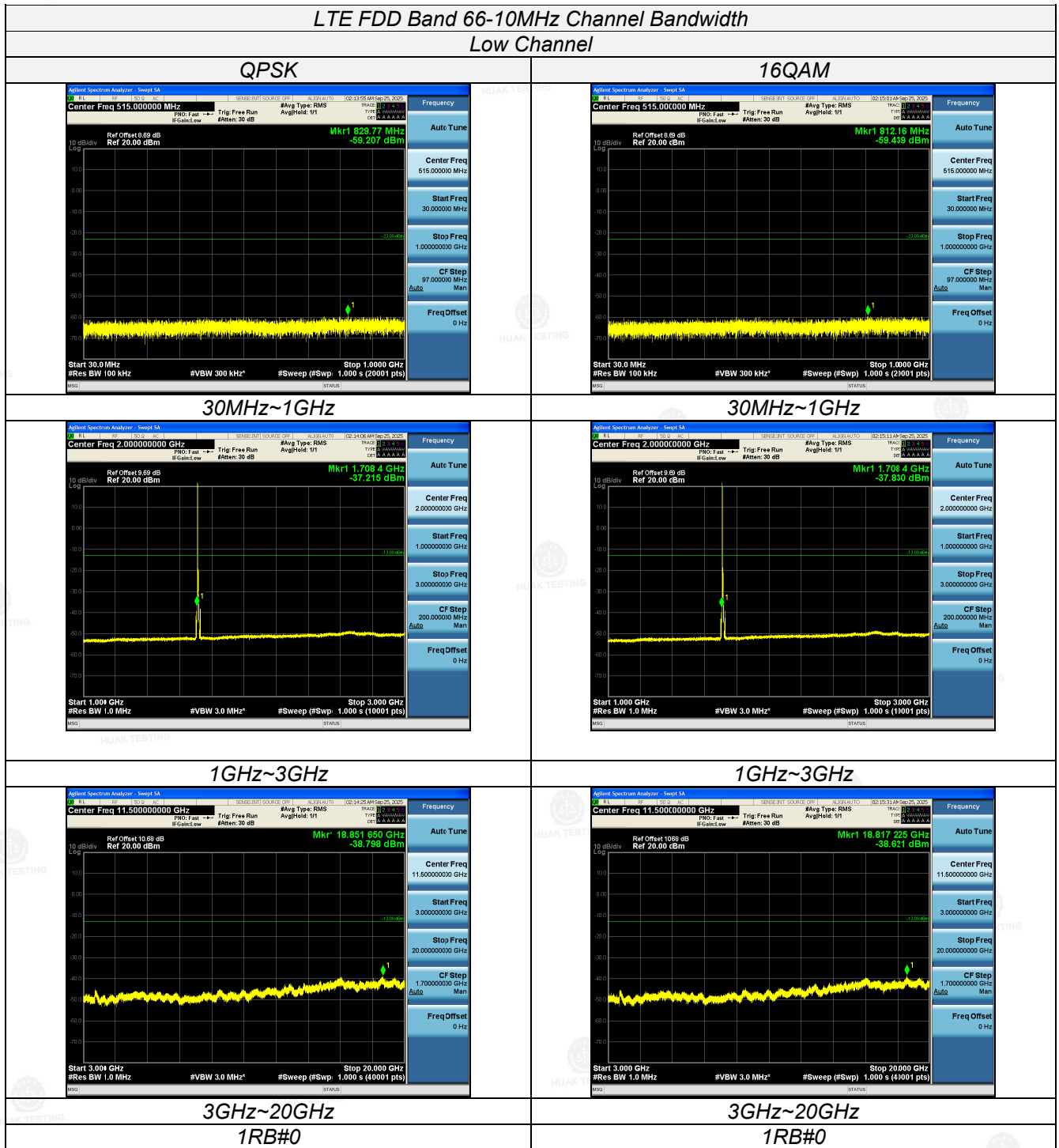
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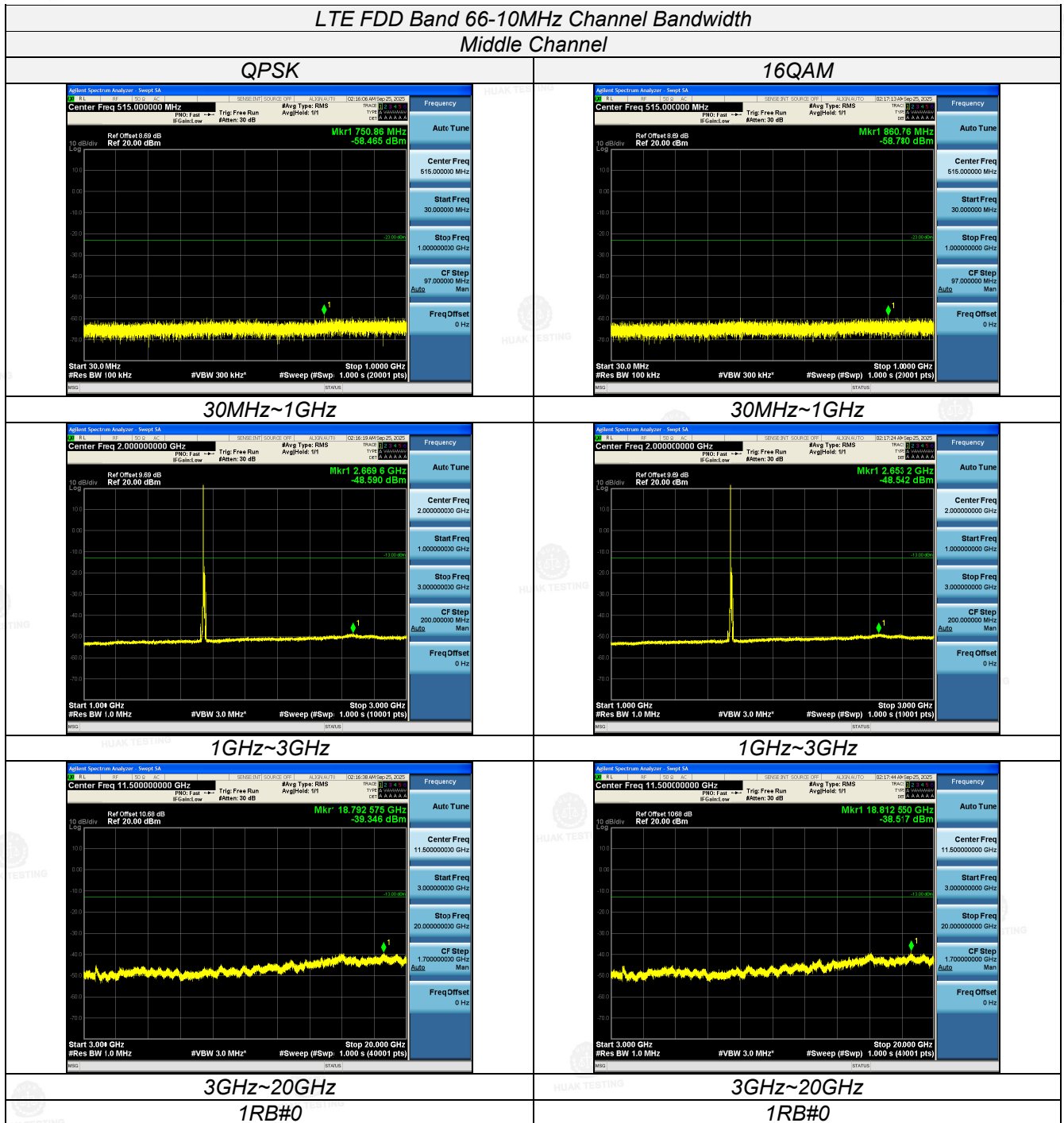


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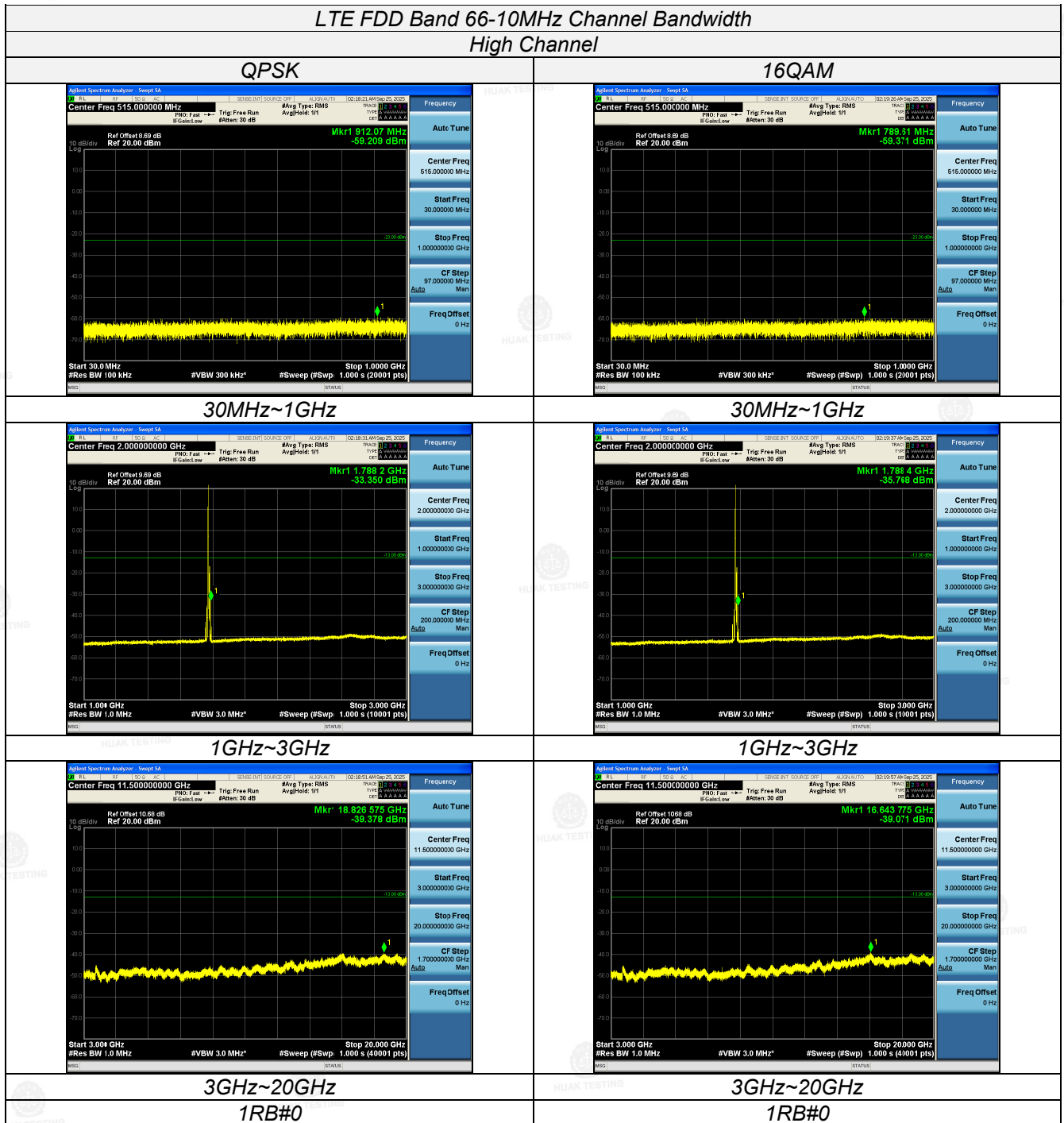
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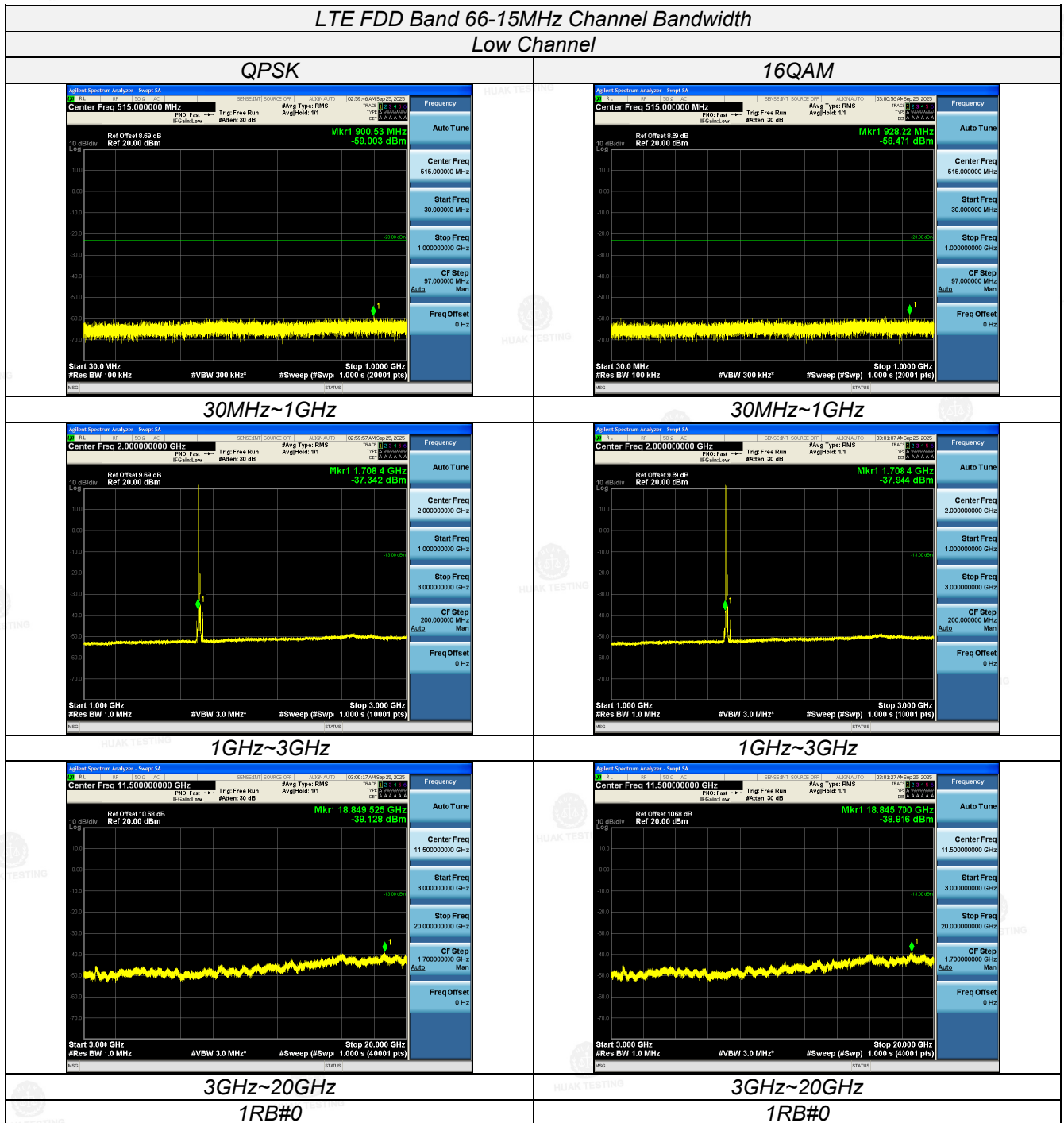
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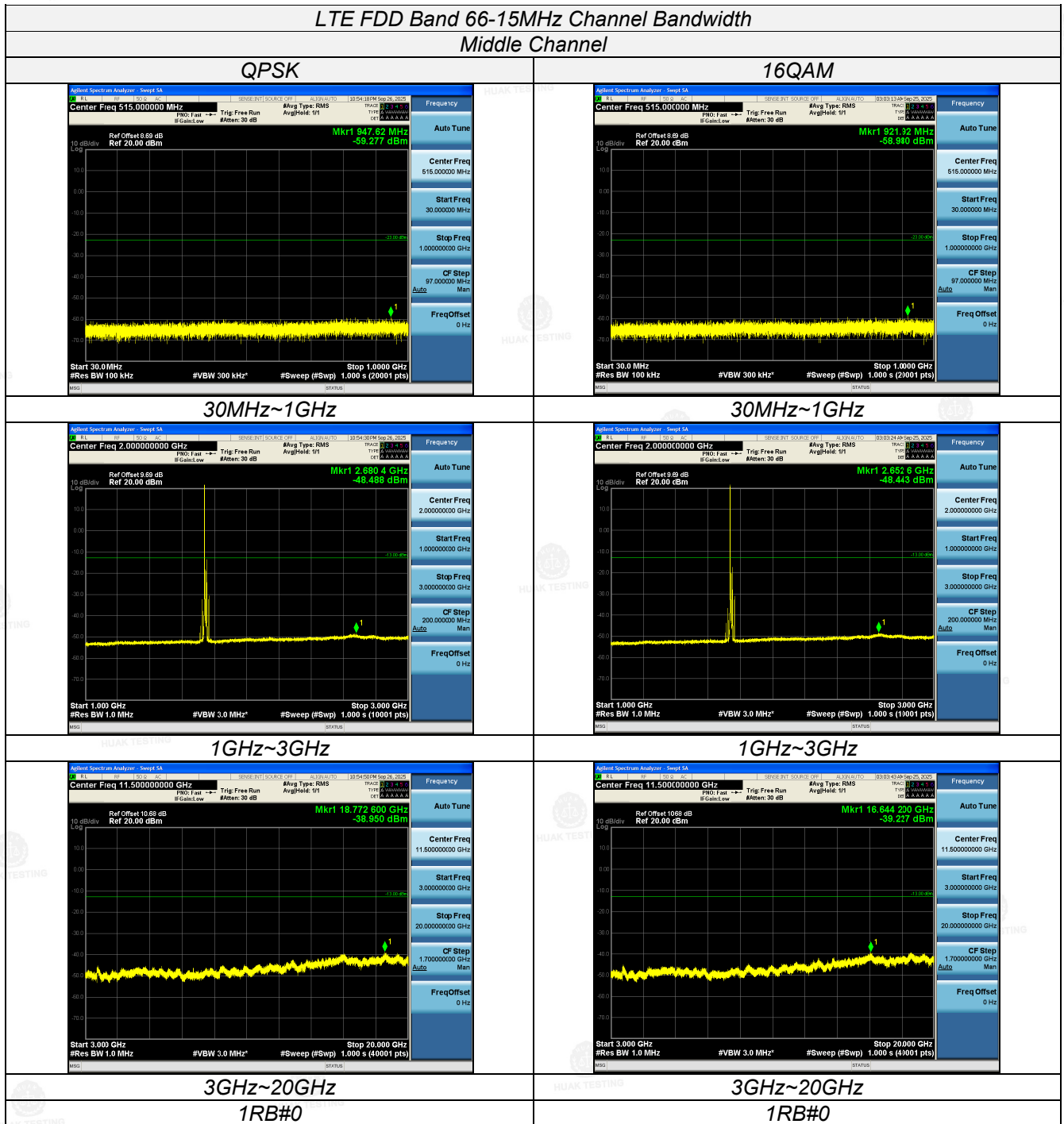
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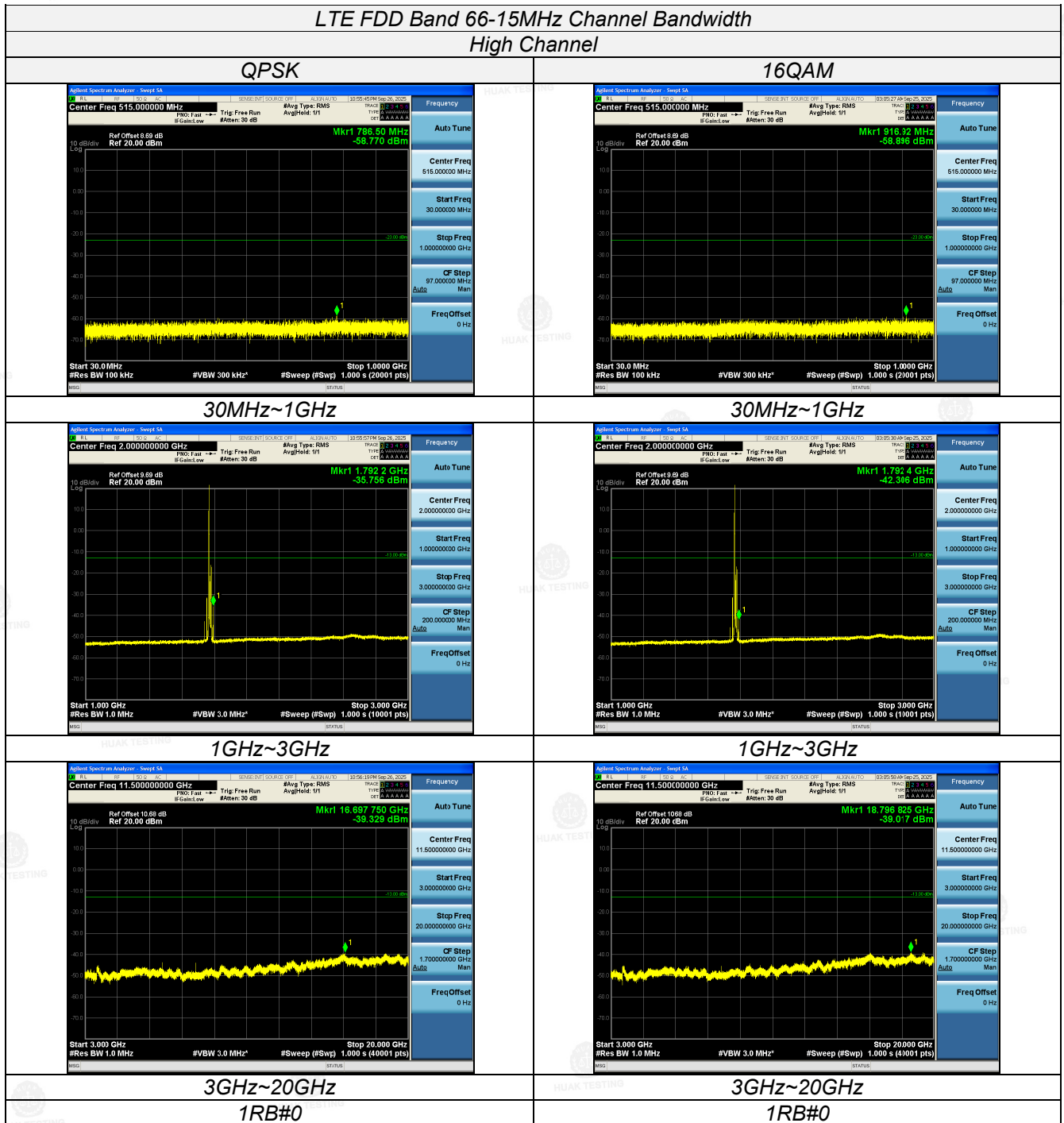
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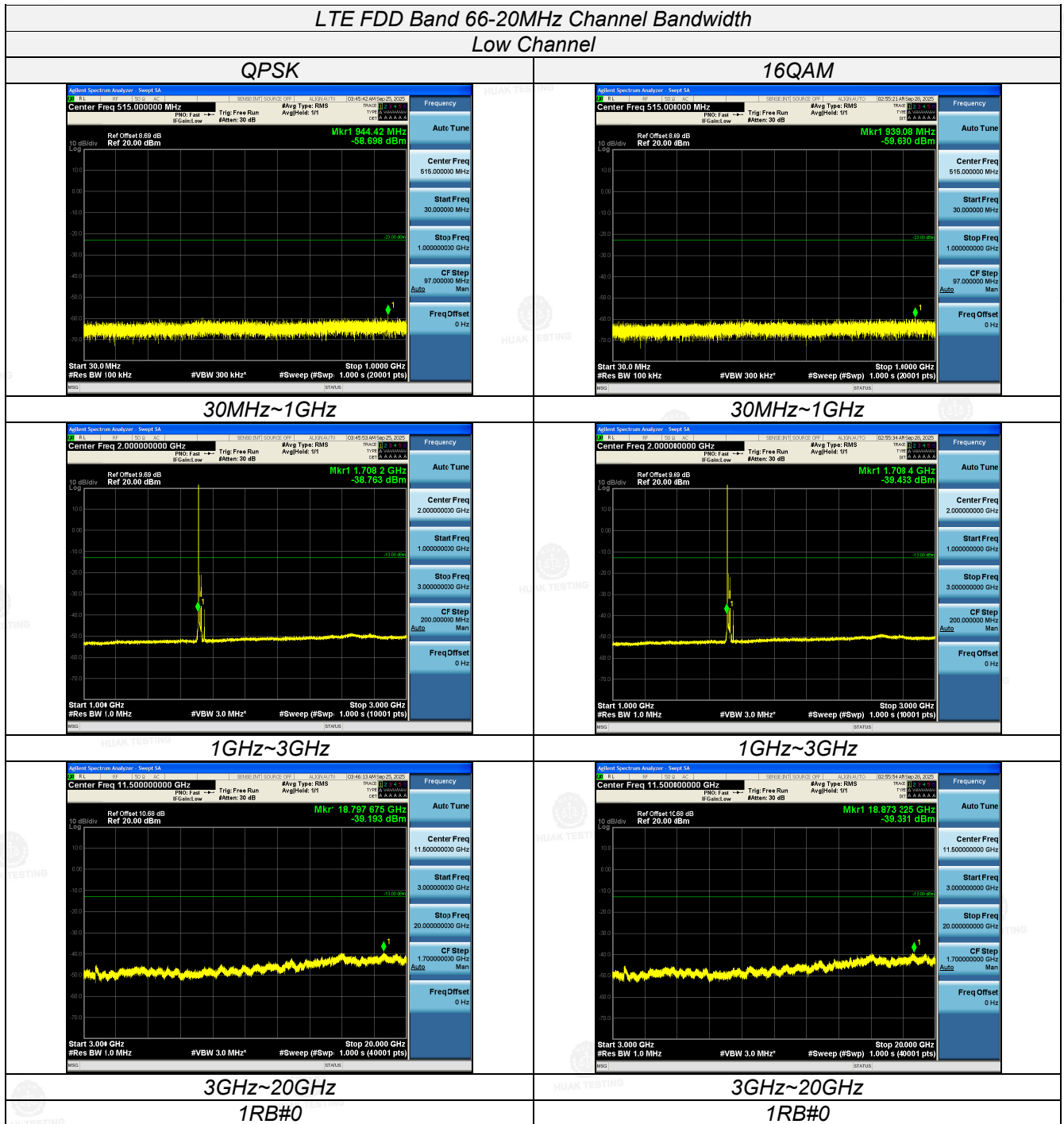
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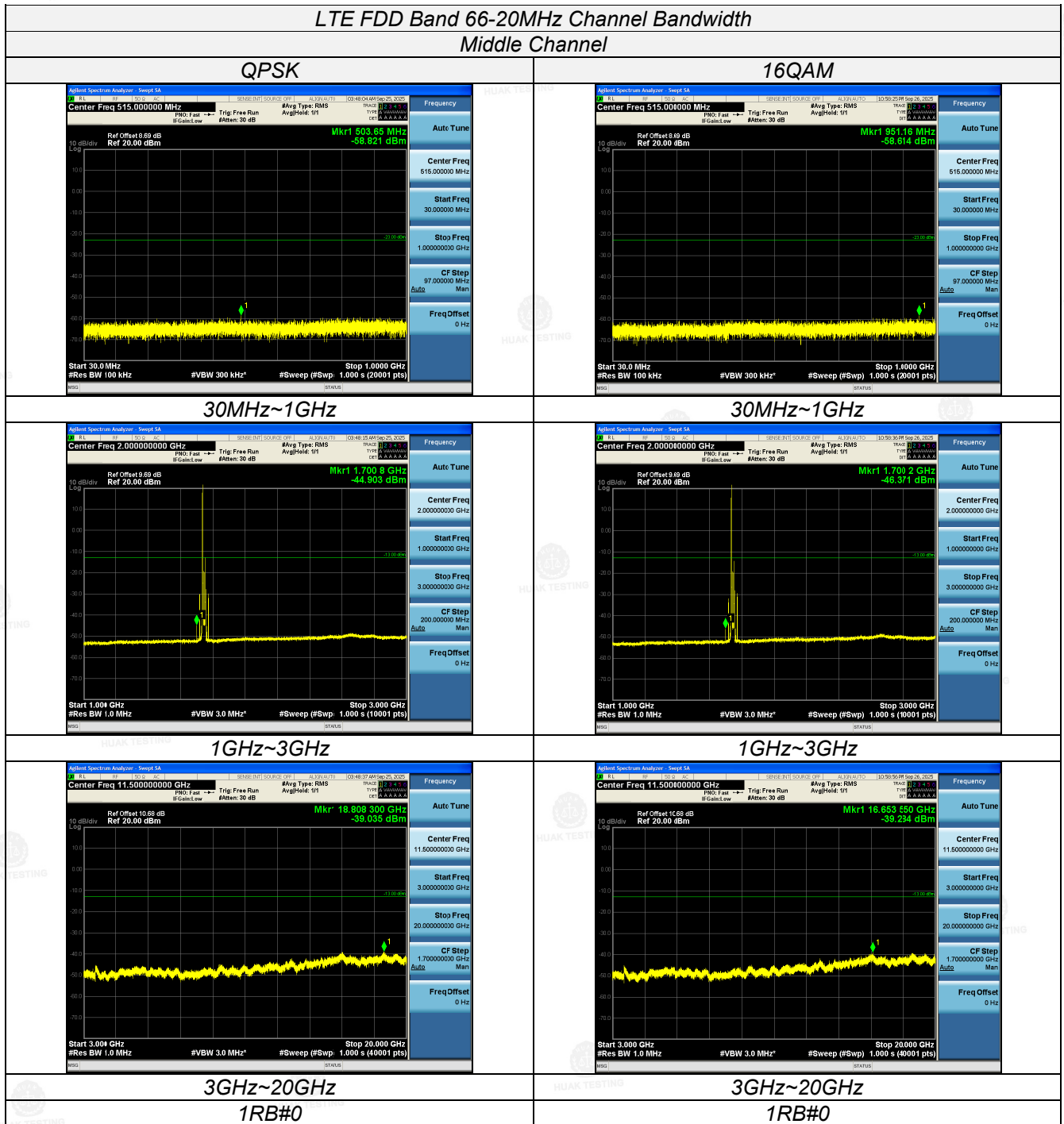


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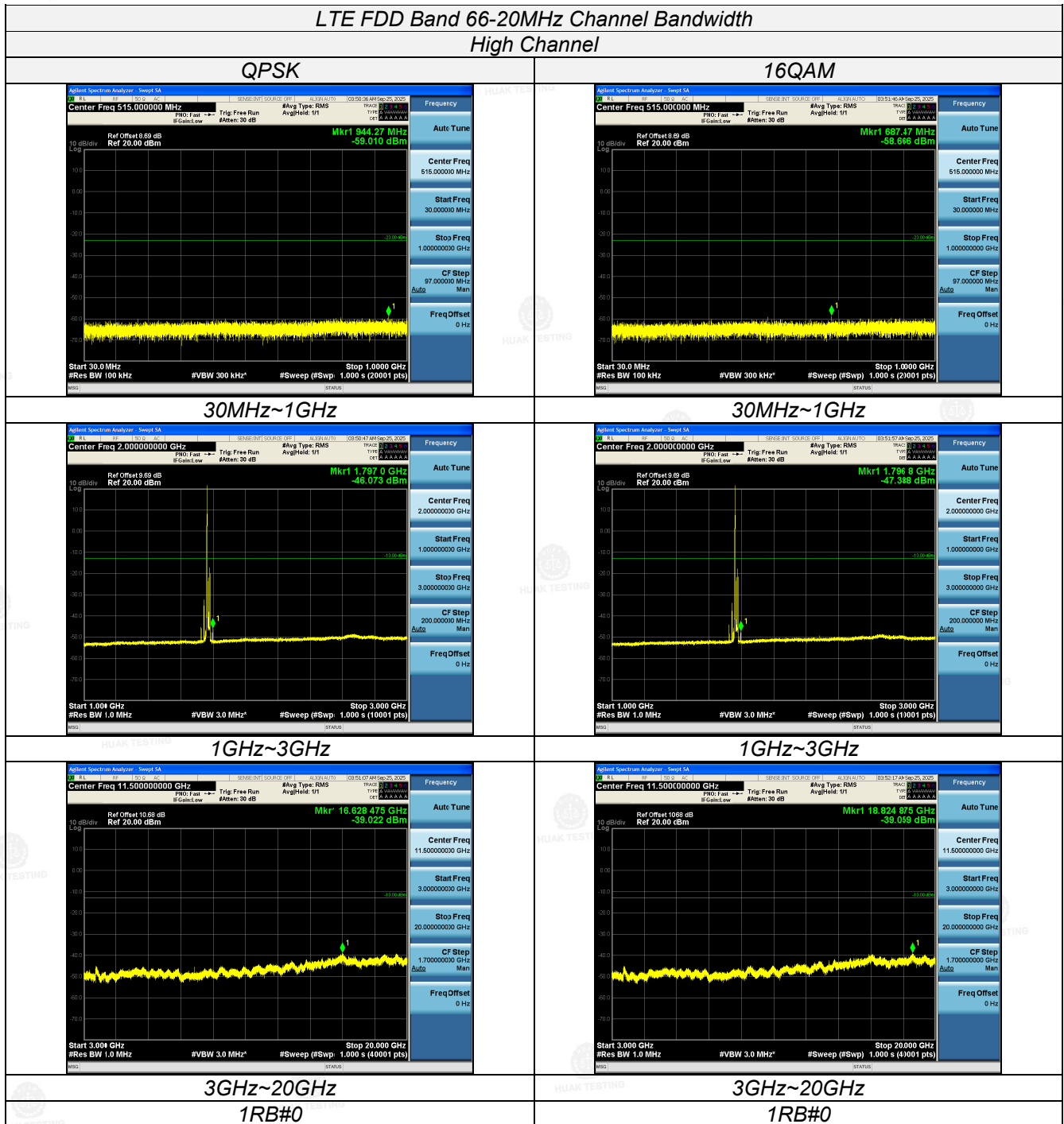
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Radiated Measurement:

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We were not recorded other points as values lower than limits.
4. $Margin = Limit - EIRP$

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.4	-47.97	4.02	3.00	12.50	-39.49	-13.00	26.49	H
5132.1	-47.39	5.11	3.00	13.38	-39.12	-13.00	26.12	H
3421.4	-51.35	4.02	3.00	12.50	-42.87	-13.00	29.87	V
5132.1	-51.00	5.11	3.00	13.38	-42.73	-13.00	29.73	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.62	4.02	3.00	12.45	-39.19	-13.00	26.19	H
5235	-47.49	5.11	3.00	13.38	-39.22	-13.00	26.22	H
3490	-48.76	4.02	3.00	12.45	-40.33	-13.00	27.33	V
5235	-47.94	5.11	3.00	13.38	-39.67	-13.00	26.67	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.6	-47.55	4.02	3.00	12.21	-39.36	-13.00	26.36	H
5337.9	-47.00	5.11	3.00	13.26	-38.85	-13.00	25.85	H
3558.6	-49.03	4.02	3.00	12.21	-40.84	-13.00	27.84	V
5337.9	-48.45	5.11	3.00	13.26	-40.30	-13.00	27.30	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3423.0	-49.02	4.02	3.00	12.50	-40.54	-13.00	27.54	H
5134.5	-49.45	5.11	3.00	13.38	-41.18	-13.00	28.18	H
3423.0	-51.41	4.02	3.00	12.50	-42.93	-13.00	29.93	V
5134.5	-51.68	5.11	3.00	13.38	-43.41	-13.00	30.41	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.11	4.02	3.00	12.45	-38.68	-13.00	25.68	H
5235	-47.46	5.11	3.00	13.38	-39.19	-13.00	26.19	H
3490	-48.84	4.02	3.00	12.45	-40.41	-13.00	27.41	V
5235	-48.21	5.11	3.00	13.38	-39.94	-13.00	26.94	V



LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3557	-47.92	4.02	3.00	12.21	-39.73	-13.00	26.73	H
5335.5	-47.64	5.11	3.00	13.26	-39.49	-13.00	26.49	H
3557	-49.13	4.02	3.00	12.21	-40.94	-13.00	27.94	V
5335.5	-48.89	5.11	3.00	13.26	-40.74	-13.00	27.74	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.0	-46.33	4.02	3.00	12.50	-37.85	-13.00	24.85	H
5137.5	-48.66	5.11	3.00	13.38	-40.39	-13.00	27.39	H
3425.0	-51.79	4.02	3.00	12.50	-43.31	-13.00	30.31	V
5137.5	-49.68	5.11	3.00	13.38	-41.41	-13.00	28.41	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.83	4.02	3.00	12.45	-39.40	-13.00	26.40	H
5235	-48.05	5.11	3.00	13.38	-39.78	-13.00	26.78	H
3490	-49.07	4.02	3.00	12.45	-40.64	-13.00	27.64	V
5235	-47.63	5.11	3.00	13.38	-39.36	-13.00	26.36	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3555	-47.32	4.02	3.00	12.21	-39.13	-13.00	26.13	H
5332.5	-46.99	5.11	3.00	13.26	-38.84	-13.00	25.84	H
3555	-49.69	4.02	3.00	12.21	-41.50	-13.00	28.50	V
5332.5	-48.32	5.11	3.00	13.26	-40.17	-13.00	27.17	V

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.0	-46.67	4.02	3.00	12.50	-38.19	-13.00	25.19	H
5145.0	-48.95	5.11	3.00	13.38	-40.68	-13.00	27.68	H
3430.0	-51.38	4.02	3.00	12.50	-42.90	-13.00	29.90	V
5145.0	-50.51	5.11	3.00	13.38	-42.24	-13.00	29.24	V

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.46	4.02	3.00	12.45	-39.03	-13.00	26.03	H
5235	-48.25	5.11	3.00	13.38	-39.98	-13.00	26.98	H
3490	-48.61	4.02	3.00	12.45	-40.18	-13.00	27.18	V
5235	-47.26	5.11	3.00	13.38	-38.99	-13.00	25.99	V



LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550	-47.54	4.02	3.00	12.21	-39.35	-13.00	26.35	H
5325	-47.08	5.11	3.00	13.26	-38.93	-13.00	25.93	H
3550	-49.34	4.02	3.00	12.21	-41.15	-13.00	28.15	V
5325	-48.36	5.11	3.00	13.26	-40.21	-13.00	27.21	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3435.0	-47.27	4.02	3.00	12.50	-38.79	-13.00	25.79	H
5152.5	-49.66	5.11	3.00	13.38	-41.39	-13.00	28.39	H
3435.0	-51.39	4.02	3.00	12.50	-42.91	-13.00	29.91	V
5152.5	-50.32	5.11	3.00	13.38	-42.05	-13.00	29.05	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-48.05	4.02	3.00	12.45	-39.62	-13.00	26.62	H
5235	-48.21	5.11	3.00	13.38	-39.94	-13.00	26.94	H
3490	-49.12	4.02	3.00	12.45	-40.69	-13.00	27.69	V
5235	-48.12	5.11	3.00	13.38	-39.85	-13.00	26.85	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3545	-48.09	4.02	3.00	12.21	-39.90	-13.00	26.90	H
5317.5	-47.67	5.11	3.00	13.26	-39.52	-13.00	26.52	H
3545	-49.26	4.02	3.00	12.21	-41.07	-13.00	28.07	V
5317.5	-48.56	5.11	3.00	13.26	-40.41	-13.00	27.41	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-46.39	4.02	3.00	12.50	-37.91	-13.00	24.91	H
5160.0	-47.36	5.11	3.00	13.38	-39.09	-13.00	26.09	H
3440.0	-50.43	4.02	3.00	12.50	-41.95	-13.00	28.95	V
5160.0	-51.41	5.11	3.00	13.38	-43.14	-13.00	30.14	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.37	4.02	3.00	12.45	-38.94	-13.00	25.94	H
5235	-47.71	5.11	3.00	13.38	-39.44	-13.00	26.44	H
3490	-48.73	4.02	3.00	12.45	-40.30	-13.00	27.30	V
5235	-47.52	5.11	3.00	13.38	-39.25	-13.00	26.25	V



LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540	-47.79	4.02	3.00	12.21	-39.60	-13.00	26.60	H
5310	-47.47	5.11	3.00	13.26	-39.32	-13.00	26.32	H
3540	-49.55	4.02	3.00	12.21	-41.36	-13.00	28.36	V
5310	-48.79	5.11	3.00	13.26	-40.64	-13.00	27.64	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.4	-47.12	4.02	3.00	12.50	-38.64	-13.00	25.64	H
5132.1	-48.88	5.11	3.00	13.38	-40.61	-13.00	27.61	H
3421.4	-49.72	4.02	3.00	12.50	-41.24	-13.00	28.24	V
5132.1	-49.87	5.11	3.00	13.38	-41.60	-13.00	28.60	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.71	4.02	3.00	12.45	-39.28	-13.00	26.28	H
5235	-48.04	5.11	3.00	13.38	-39.77	-13.00	26.77	H
3490	-49.34	4.02	3.00	12.45	-40.91	-13.00	27.91	V
5235	-47.34	5.11	3.00	13.38	-39.07	-13.00	26.07	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.6	-47.40	4.02	3.00	12.21	-39.21	-13.00	26.21	H
5337.9	-47.10	5.11	3.00	13.26	-38.95	-13.00	25.95	H
3558.6	-49.00	4.02	3.00	12.21	-40.81	-13.00	27.81	V
5337.9	-48.21	5.11	3.00	13.26	-40.06	-13.00	27.06	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3423.0	-46.46	4.02	3.00	12.50	-37.98	-13.00	24.98	H
5134.5	-47.26	5.11	3.00	13.38	-38.99	-13.00	25.99	H
3423.0	-51.24	4.02	3.00	12.50	-42.76	-13.00	29.76	V
5134.5	-50.60	5.11	3.00	13.38	-42.33	-13.00	29.33	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.86	4.02	3.00	12.45	-39.43	-13.00	26.43	H
5235	-47.84	5.11	3.00	13.38	-39.57	-13.00	26.57	H
3490	-48.63	4.02	3.00	12.45	-40.20	-13.00	27.20	V
5235	-47.76	5.11	3.00	13.38	-39.49	-13.00	26.49	V



LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3557	-47.77	4.02	3.00	12.21	-39.58	-13.00	26.58	H
5335.5	-47.35	5.11	3.00	13.26	-39.20	-13.00	26.20	H
3557	-49.13	4.02	3.00	12.21	-40.94	-13.00	27.94	V
5335.5	-48.99	5.11	3.00	13.26	-40.84	-13.00	27.84	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.0	-47.23	4.02	3.00	12.50	-38.75	-13.00	25.75	H
5137.5	-48.14	5.11	3.00	13.38	-39.87	-13.00	26.87	H
3425.0	-51.66	4.02	3.00	12.50	-43.18	-13.00	30.18	V
5137.5	-48.82	5.11	3.00	13.38	-40.55	-13.00	27.55	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.47	4.02	3.00	12.45	-39.04	-13.00	26.04	H
5235	-47.93	5.11	3.00	13.38	-39.66	-13.00	26.66	H
3490	-48.55	4.02	3.00	12.45	-40.12	-13.00	27.12	V
5235	-47.99	5.11	3.00	13.38	-39.72	-13.00	26.72	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3555	-47.42	4.02	3.00	12.21	-39.23	-13.00	26.23	H
5332.5	-47.21	5.11	3.00	13.26	-39.06	-13.00	26.06	H
3555	-49.47	4.02	3.00	12.21	-41.28	-13.00	28.28	V
5332.5	-48.17	5.11	3.00	13.26	-40.02	-13.00	27.02	V

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.0	-48.83	4.02	3.00	12.50	-40.35	-13.00	27.35	H
5145.0	-49.50	5.11	3.00	13.38	-41.23	-13.00	28.23	H
3430.0	-49.77	4.02	3.00	12.50	-41.29	-13.00	28.29	V
5145.0	-51.73	5.11	3.00	13.38	-43.46	-13.00	30.46	V

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.09	4.02	3.00	12.45	-38.66	-13.00	25.66	H
5235	-47.53	5.11	3.00	13.38	-39.26	-13.00	26.26	H
3490	-49.44	4.02	3.00	12.45	-41.01	-13.00	28.01	V
5235	-47.75	5.11	3.00	13.38	-39.48	-13.00	26.48	V



LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550	-47.74	4.02	3.00	12.21	-39.55	-13.00	26.55	H
5325	-47.39	5.11	3.00	13.26	-39.24	-13.00	26.24	H
3550	-49.80	4.02	3.00	12.21	-41.61	-13.00	28.61	V
5325	-48.54	5.11	3.00	13.26	-40.39	-13.00	27.39	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3435.0	-47.24	4.02	3.00	12.50	-38.76	-13.00	25.76	H
5152.5	-46.91	5.11	3.00	13.38	-38.64	-13.00	25.64	H
3435.0	-49.99	4.02	3.00	12.50	-41.51	-13.00	28.51	V
5152.5	-49.32	5.11	3.00	13.38	-41.05	-13.00	28.05	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.51	4.02	3.00	12.45	-39.08	-13.00	26.08	H
5235	-47.92	5.11	3.00	13.38	-39.65	-13.00	26.65	H
3490	-49.51	4.02	3.00	12.45	-41.08	-13.00	28.08	V
5235	-47.45	5.11	3.00	13.38	-39.18	-13.00	26.18	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM_High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3545	-47.69	4.02	3.00	12.21	-39.50	-13.00	26.50	H
5317.5	-47.57	5.11	3.00	13.26	-39.42	-13.00	26.42	H
3545	-49.06	4.02	3.00	12.21	-40.87	-13.00	27.87	V
5317.5	-48.98	5.11	3.00	13.26	-40.83	-13.00	27.83	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-47.05	4.02	3.00	12.50	-38.57	-13.00	25.57	H
5160.0	-48.75	5.11	3.00	13.38	-40.48	-13.00	27.48	H
3440.0	-49.17	4.02	3.00	12.50	-40.69	-13.00	27.69	V
5160.0	-48.83	5.11	3.00	13.38	-40.56	-13.00	27.56	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-47.74	4.02	3.00	12.45	-39.31	-13.00	26.31	H
5235	-47.42	5.11	3.00	13.38	-39.15	-13.00	26.15	H
3490	-49.47	4.02	3.00	12.45	-41.04	-13.00	28.04	V
5235	-47.79	5.11	3.00	13.38	-39.52	-13.00	26.52	V

LTE FDD Band 66 Channel Bandwidth 20MHz 16QAM High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540	-47.71	4.02	3.00	12.21	-39.52	-13.00	26.52	H
5310	-47.31	5.11	3.00	13.26	-39.16	-13.00	26.16	H
3540	-49.91	4.02	3.00	12.21	-41.72	-13.00	28.72	V
5310	-48.91	5.11	3.00	13.26	-40.76	-13.00	27.76	V

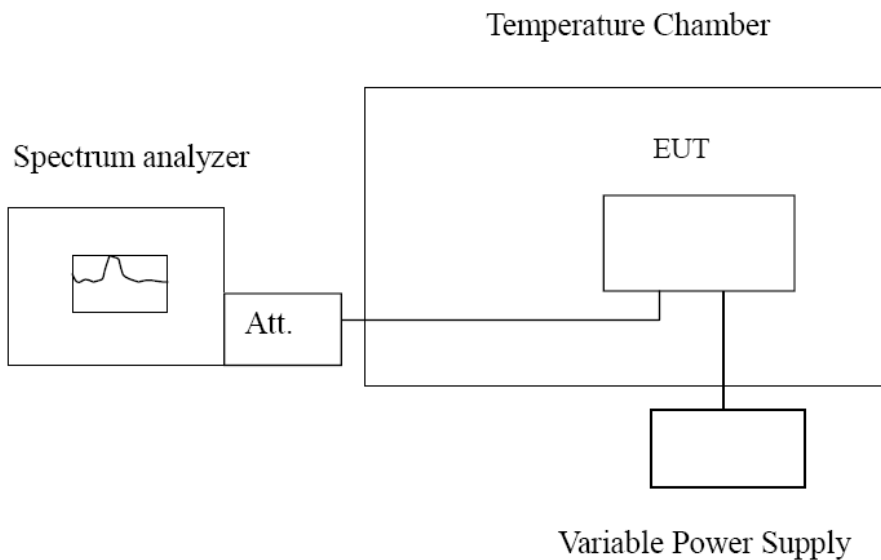
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

3.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

According to §27.54, §2.1055 requirement, 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 D.

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 4, 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 66; recorded worst case.

LTE Band 66, 1.4MHz bandwidth , QPSK (worst case of all bandwidths)

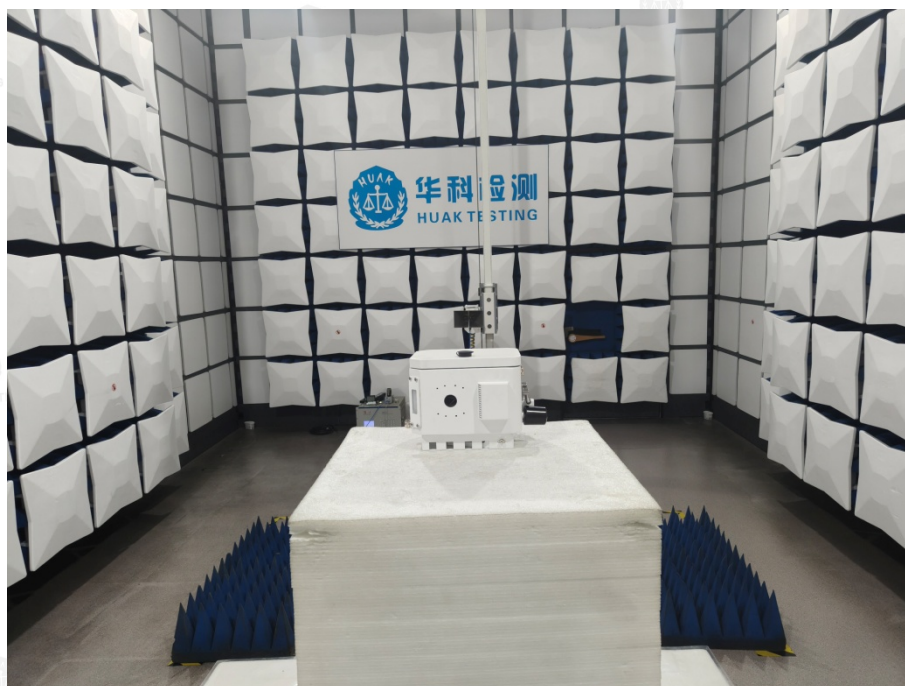
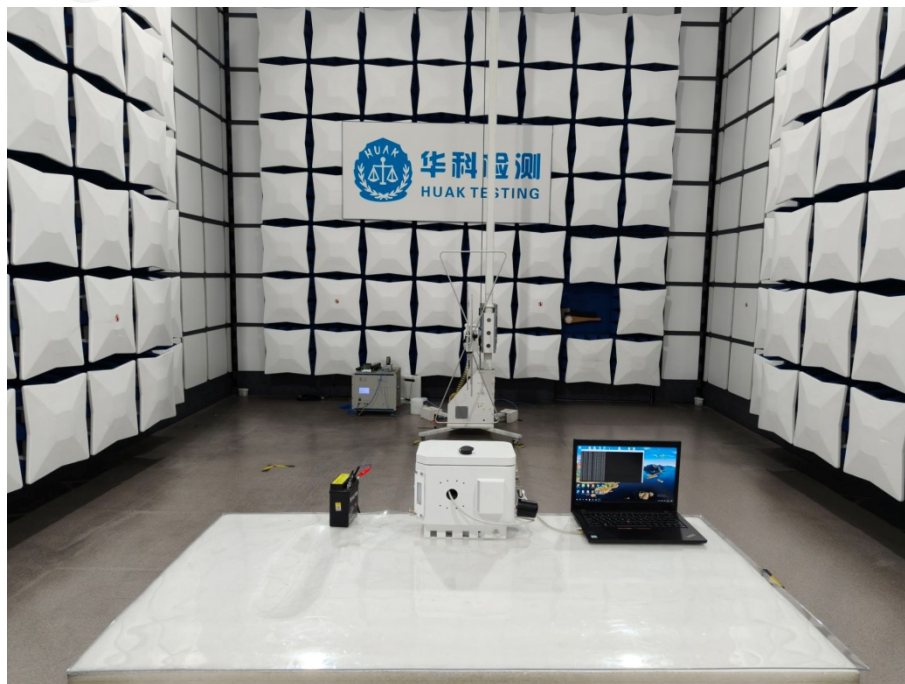
LTE FDD Band 66				
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Verdict
10.2	20	4.18	0.002443	PASS
12.0	20	3.53	0.002063	PASS
13.8	20	3.30	0.001929	PASS
12.0	-30	9.13	0.005337	PASS
12.0	-20	4.02	0.002350	PASS
12.0	-10	5.66	0.003309	PASS
12.0	0	3.22	0.001882	PASS
12.0	10	4.16	0.002432	PASS
12.0	20	5.11	0.002987	PASS
12.0	30	-4.96	-0.002842	PASS
12.0	40	-6.85	-0.003926	PASS
12.0	50	-7.48	-0.004287	PASS

LTE Band 66, 1.4MHz bandwidth , 16QAM (worst case of all bandwidths)

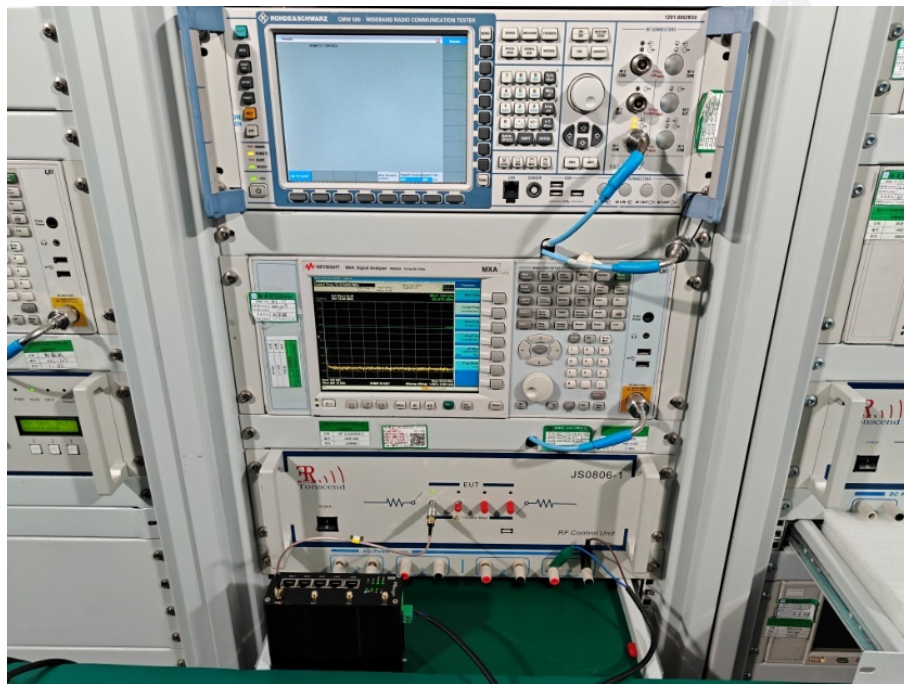
LTE FDD Band 66				
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Verdict
10.2	20	3.73	0.002180	PASS
12.0	20	4.06	0.002373	PASS
13.8	20	3.43	0.002005	PASS
12.0	-30	4.19	0.002449	PASS
12.0	-20	4.01	0.002344	PASS
12.0	-10	2.66	0.001555	PASS
12.0	0	3.03	0.001771	PASS
12.0	10	4.41	0.002578	PASS
12.0	20	-3.40	-0.001987	PASS
12.0	30	-4.65	-0.002665	PASS
12.0	40	-6.69	-0.003834	PASS
12.0	50	-5.41	-0.003100	PASS

4 Test Setup Photos of the EUT

Radiated Emissions



RF Conducted Emission



5 Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

.....**End of Report**.....