



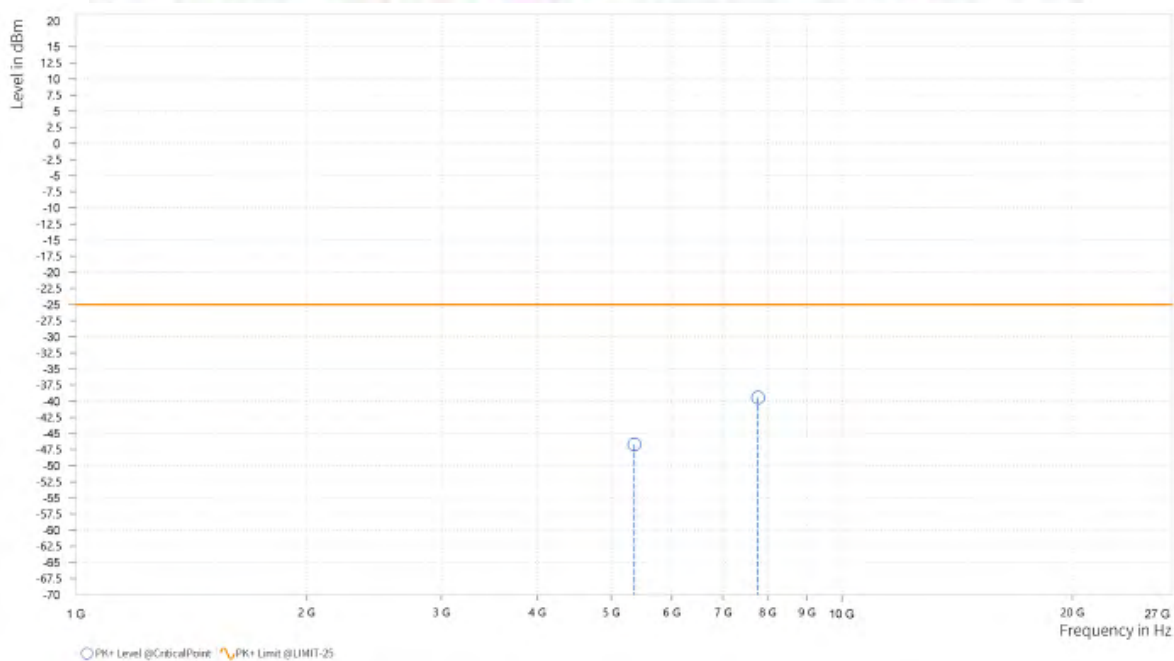
**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF07

CH41540

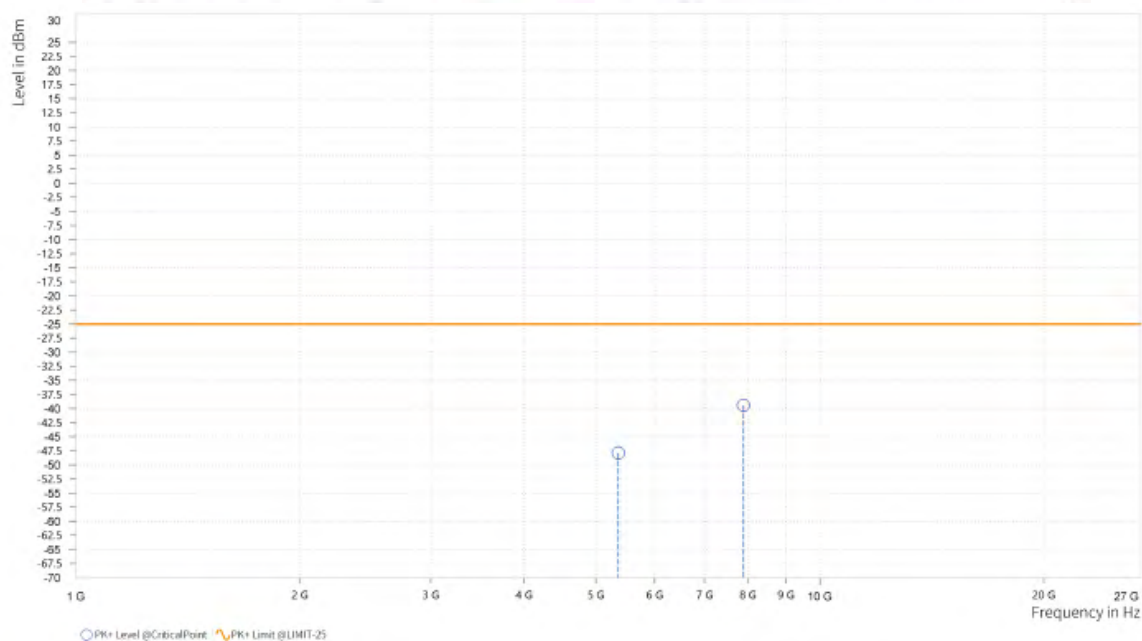
MODE	TX channel 41540	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,361.500	-46.68	-25.00	21.68	27.17	H	1	2
5	7,774.000	-39.46	-25.00	14.46	32.85	H	269.7	1



MODE	TX channel 41540	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

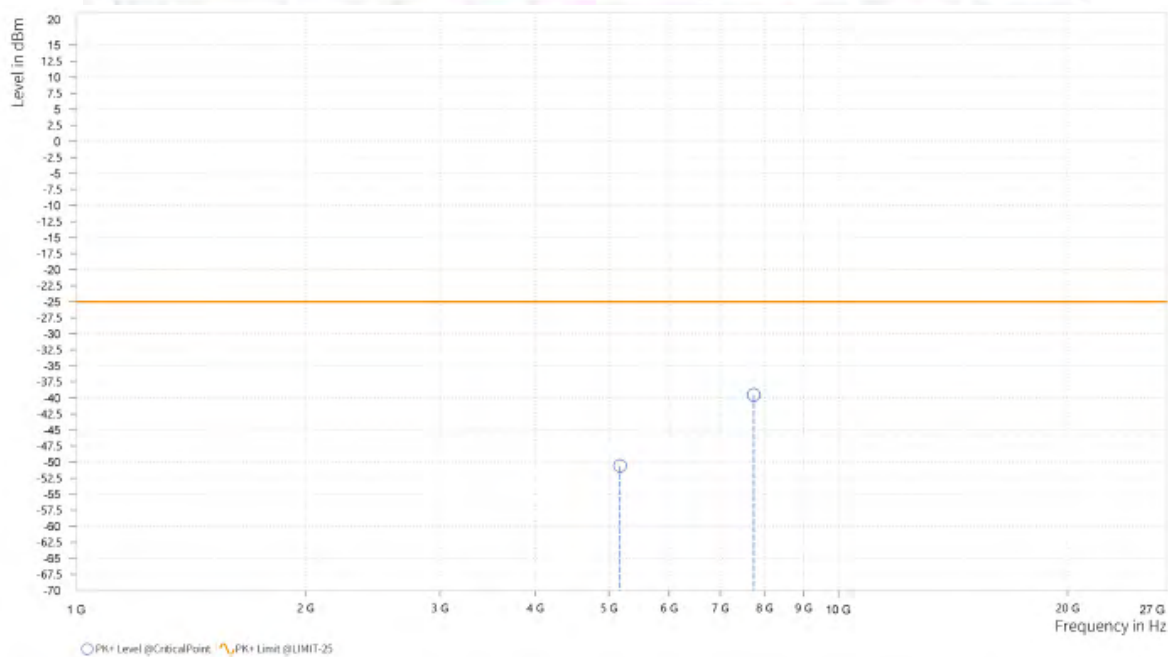
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,361.500	-47.86	-25.00	22.86	26.51	V	359	1
5	7,896.000	-39.43	-25.00	14.43	33.05	V	89	2



CHANNEL BANDWIDTH: 15MHz / QPSK

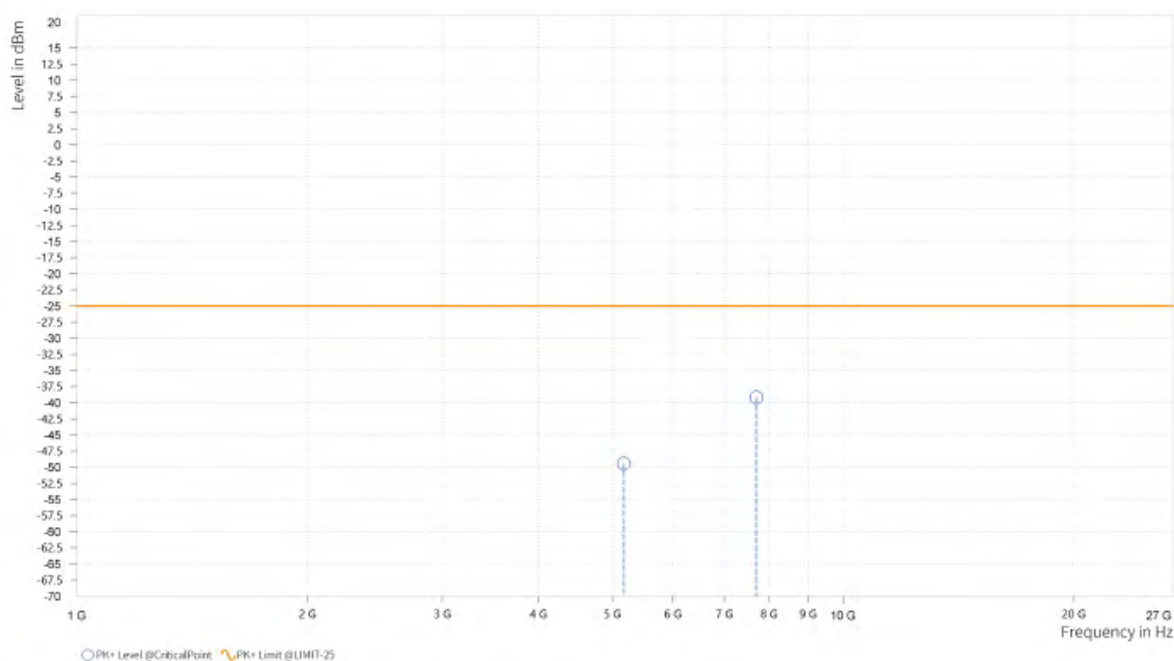
MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,173.000	-50.59	-25.00	25.59	26.16	H	0.9	2
5	7,749.000	-39.52	-25.00	14.52	32.83	H	359	2



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

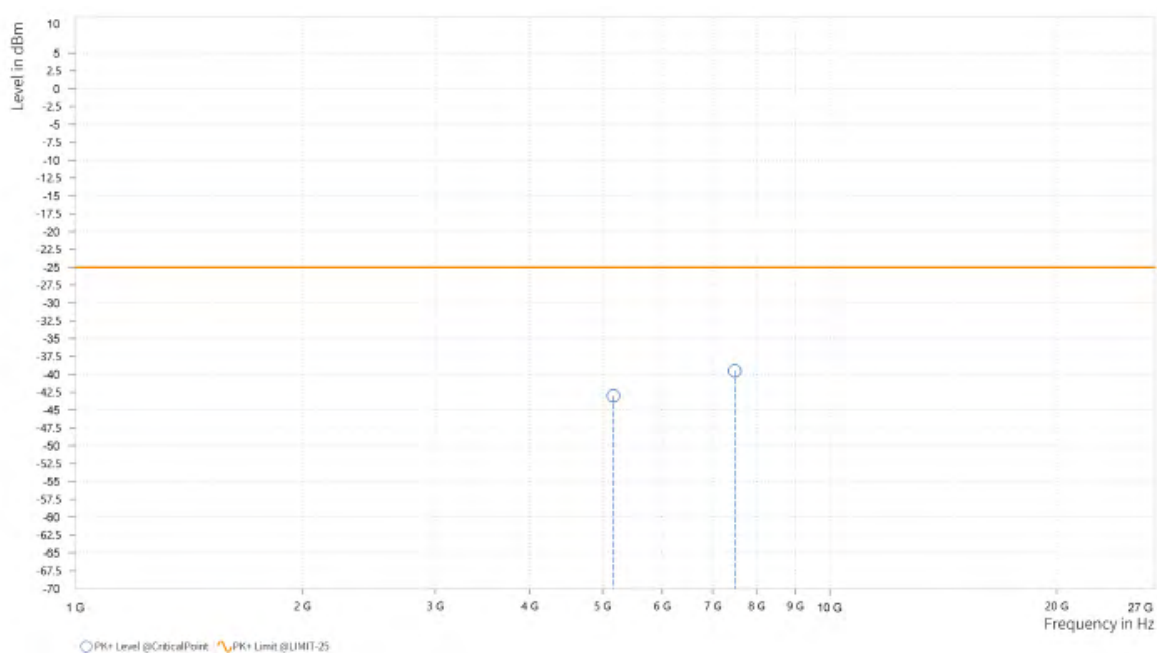
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,173.500	-49.44	-25.00	24.44	25.99	V	183.7	1
5	7,709.500	-39.19	-25.00	14.19	32.93	V	90.2	2



CHANNEL BANDWIDTH: 20MHz / QPSK

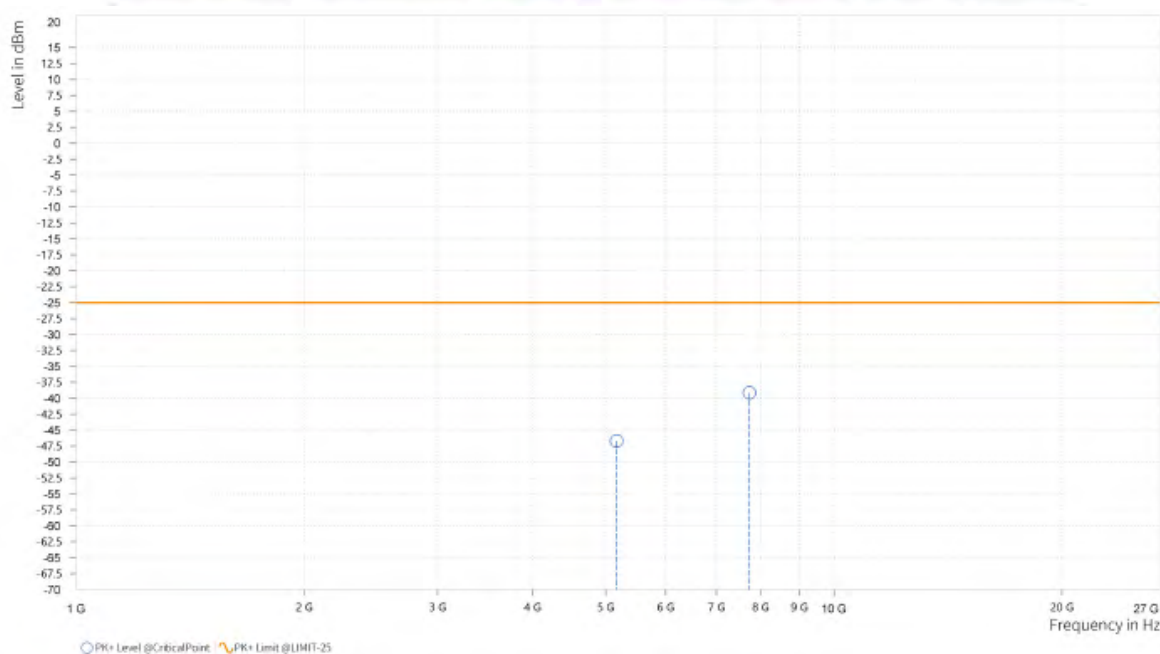
MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-43.00	-25.00	18.00	26.18	H	1	2
5	7,487.000	-39.53	-25.00	14.53	31.77	H	1	1



MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.500	-46.69	-25.00	21.69	26.05	V	359.1	1
5	7,735.000	-39.16	-25.00	14.16	33.03	V	268.6	1





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VERITAS**

Test Report No.: W7L-P22110036RF07

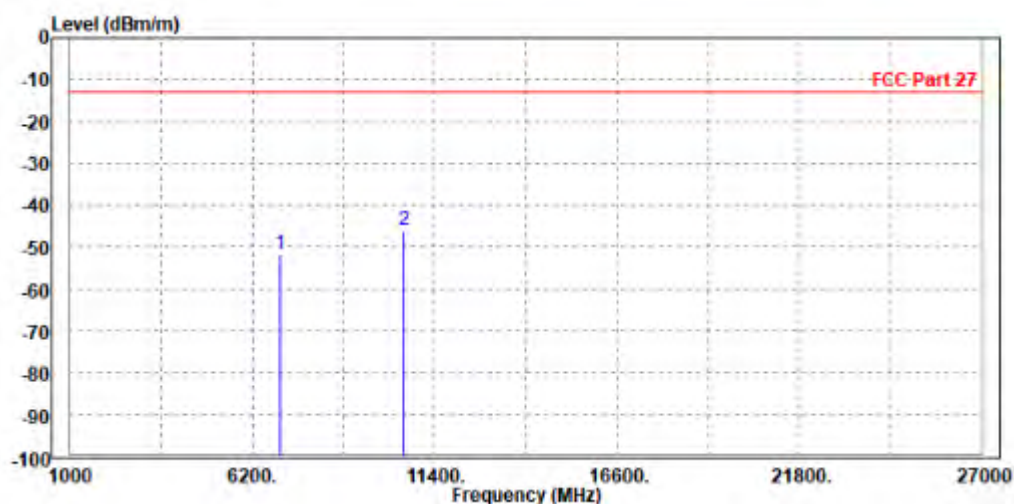
LTE BAND 42

Note: For frequency above 27GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL BANDWIDTH: 5MHz / QPSK

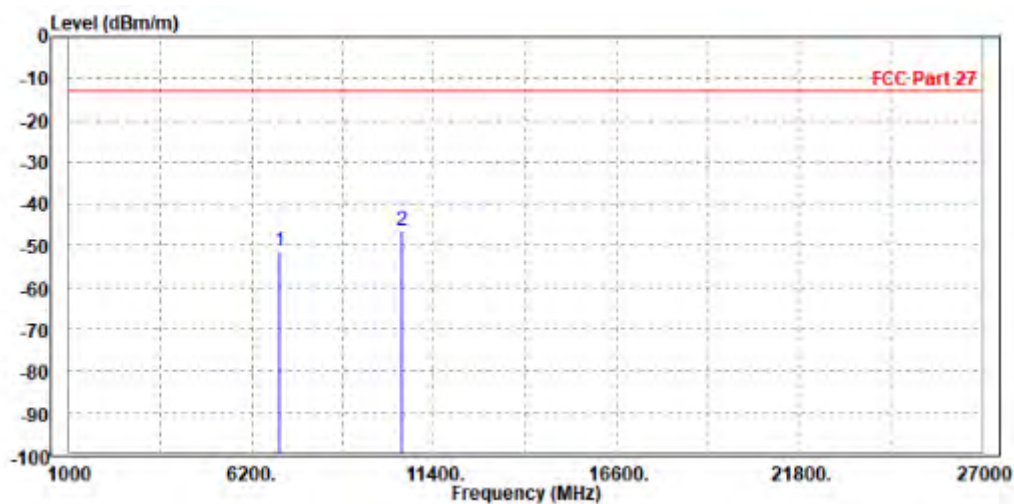
MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7006.000	-51.80	-64.02	-13.00	-38.80	12.22	Peak	Horizontal
2	PP10500.000	-46.08	-64.67	-13.00	-33.08	18.59	Peak	Horizontal



MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

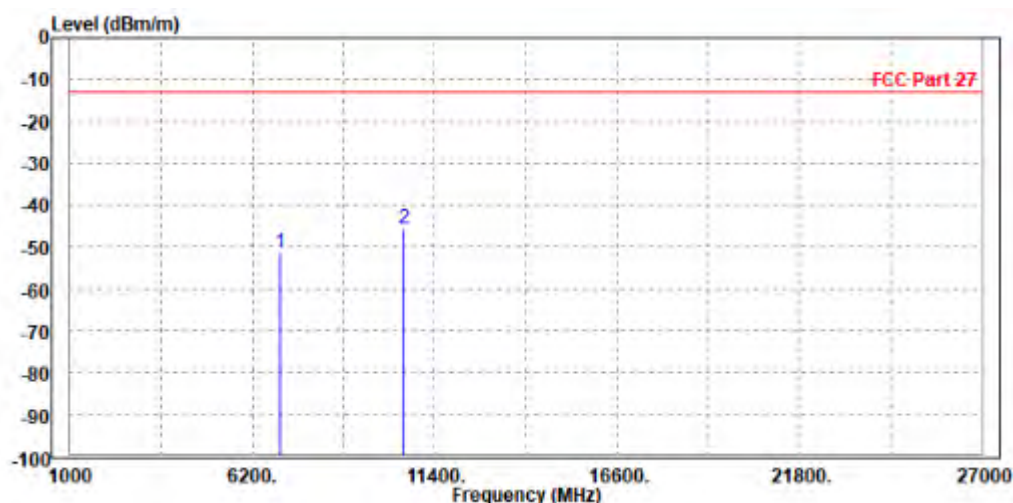
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7000.000	-51.50	-64.23	-13.00	-38.50	12.73	Peak	Vertical
2	PP10490.000	-46.37	-64.28	-13.00	-33.37	17.91	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

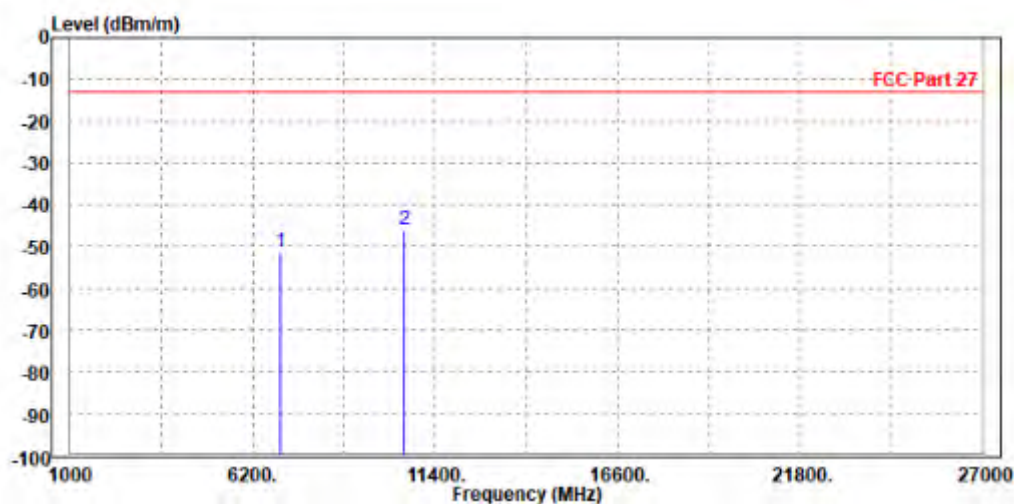
MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7006.000	-51.46	-63.68	-13.00	-38.46	12.22	Peak	Horizontal
2	PP10500.000	-45.78	-64.37	-13.00	-32.78	18.59	Peak	Horizontal



MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

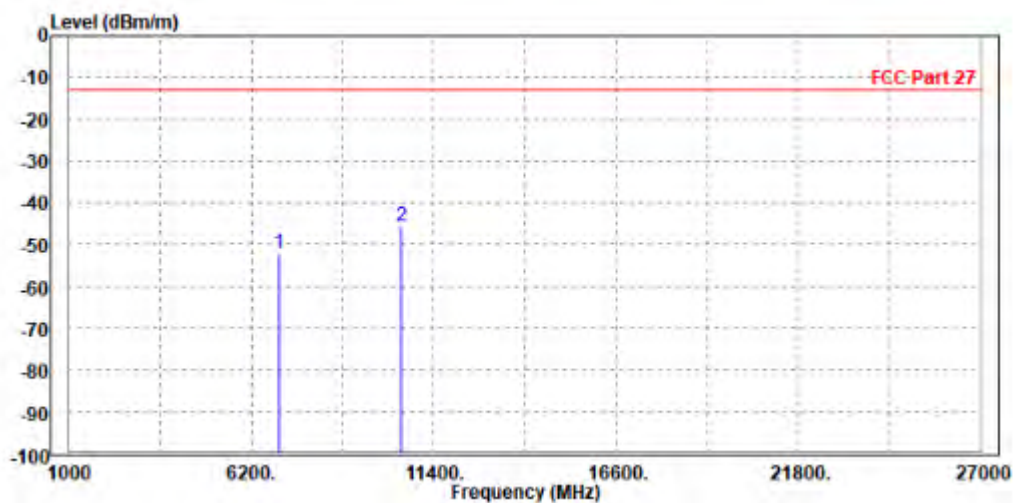
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7006.000	-51.31	-64.06	-13.00	-38.31	12.75	Peak	Vertical
2	PP10500.000	-46.12	-64.03	-13.00	-33.12	17.91	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

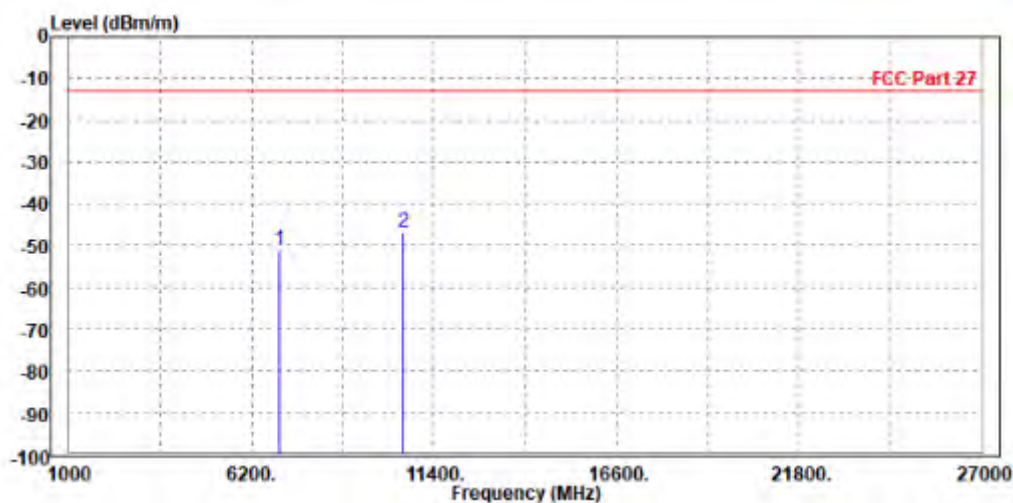
MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7000.000	-52.23	-64.46	-13.00	-39.23	12.23	Peak	Horizontal
2	PP10490.000	-45.63	-64.23	-13.00	-32.63	18.60	Peak	Horizontal



MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7006.000	-51.09	-63.84	-13.00	-38.09	12.75	Peak	Vertical
2	PP10500.000	-46.59	-64.50	-13.00	-33.59	17.91	Peak	Vertical

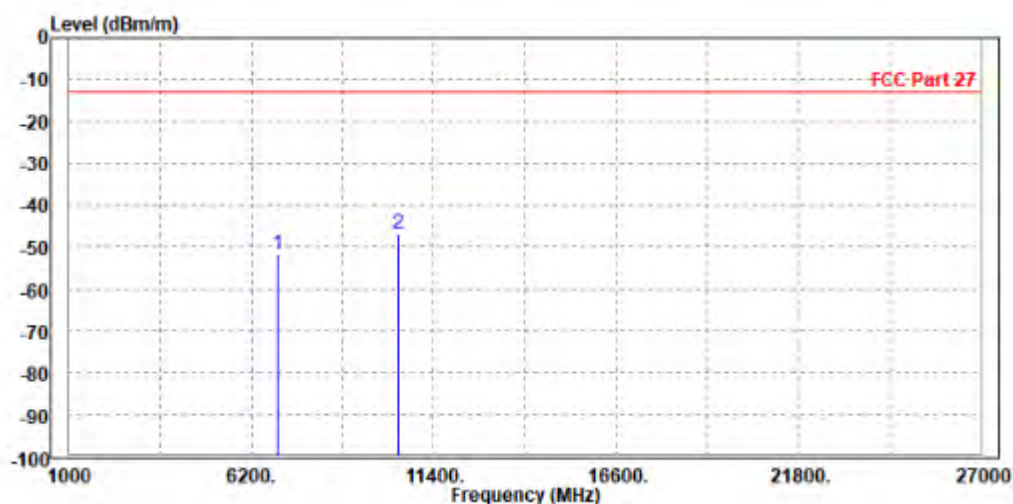


CHANNEL BANDWIDTH: 20MHz / QPSK

CH 42190

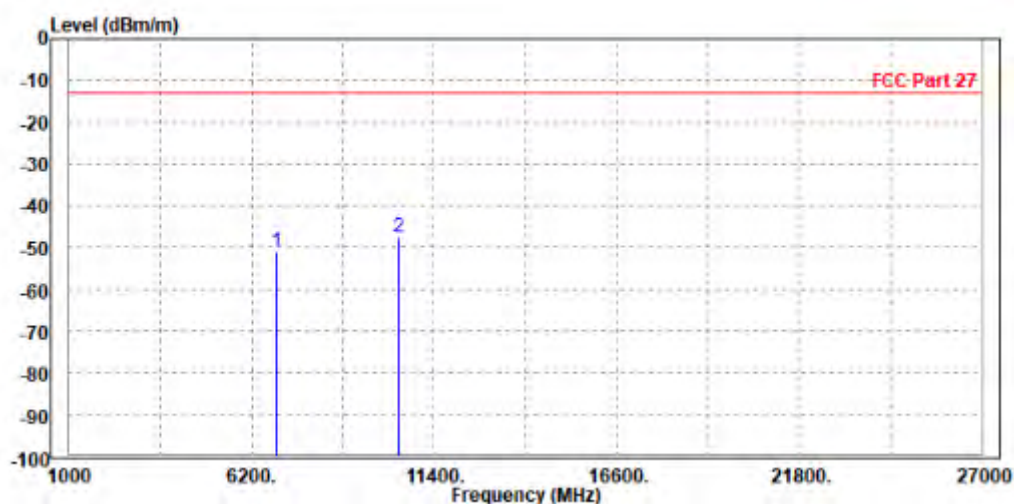
MODE	TX channel 42190	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	6928.000	-51.59	-63.73	-13.00	-38.59	12.14	Peak	Horizontal
2	PP10380.000	-46.93	-65.63	-13.00	-33.93	18.70	Peak	Horizontal



MODE	TX channel 42190	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	6920.000	-50.95	-63.64	-13.00	-37.95	12.69	Peak	Vertical
2	PP10386.000	-47.49	-65.40	-13.00	-34.49	17.91	Peak	Vertical





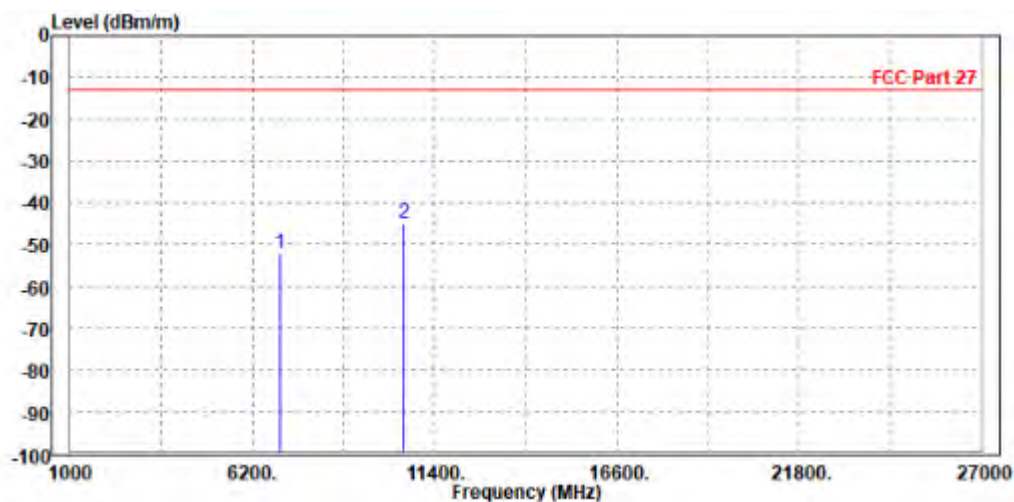
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Test Report No.: W7L-P22110036RF07

CH 42840

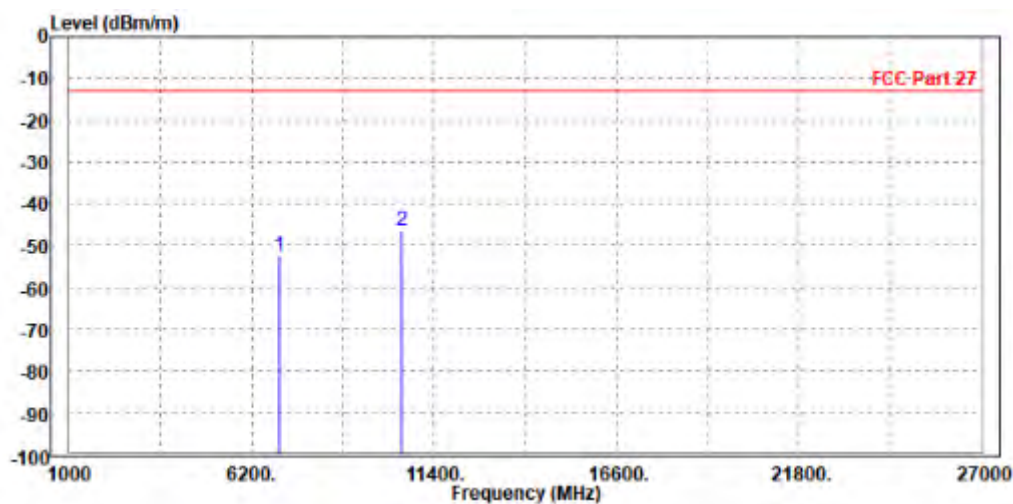
MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7006.000	-52.22	-64.44	-13.00	-39.22	12.22	Peak	Horizontal
2	PP10500.000	-45.01	-63.60	-13.00	-32.01	18.59	Peak	Horizontal



MODE	TX channel 42840	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7000.000	-52.58	-65.31	-13.00	-39.58	12.73	Peak	Vertical
2	PP10490.000	-46.33	-64.24	-13.00	-33.33	17.91	Peak	Vertical





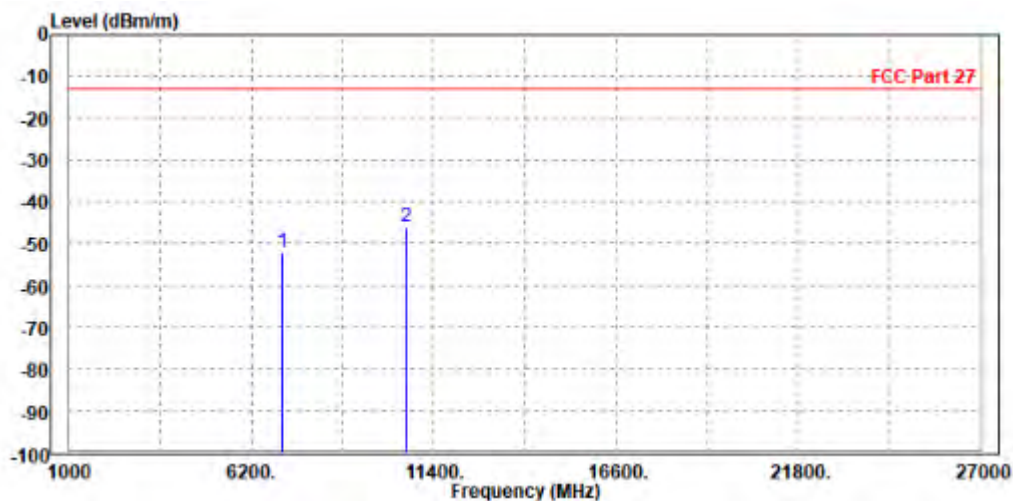
**BUREAU
VERITAS**

Test Report No.: W7L-P22110036RF07

CH 43490

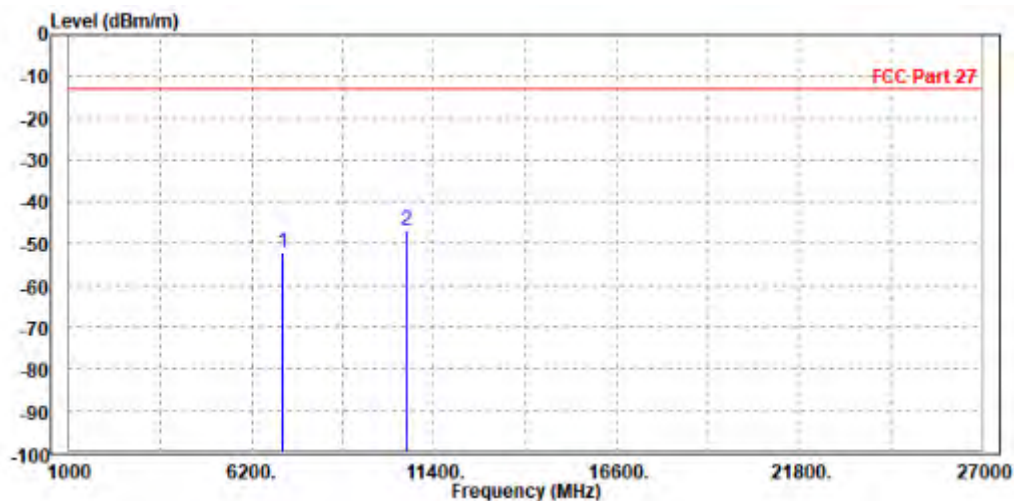
MODE	TX channel 43490	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7080.000	-52.11	-64.21	-13.00	-39.11	12.10	Peak	Horizontal
2	PP10620.000	-46.05	-64.97	-13.00	-33.05	18.92	Peak	Horizontal



MODE	TX channel 43490	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Tony Xiong		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7084.000	-51.97	-65.03	-13.00	-38.97	13.06	Peak	Vertical
2	PP10620.000	-46.67	-65.14	-13.00	-33.67	18.47	Peak	Vertical

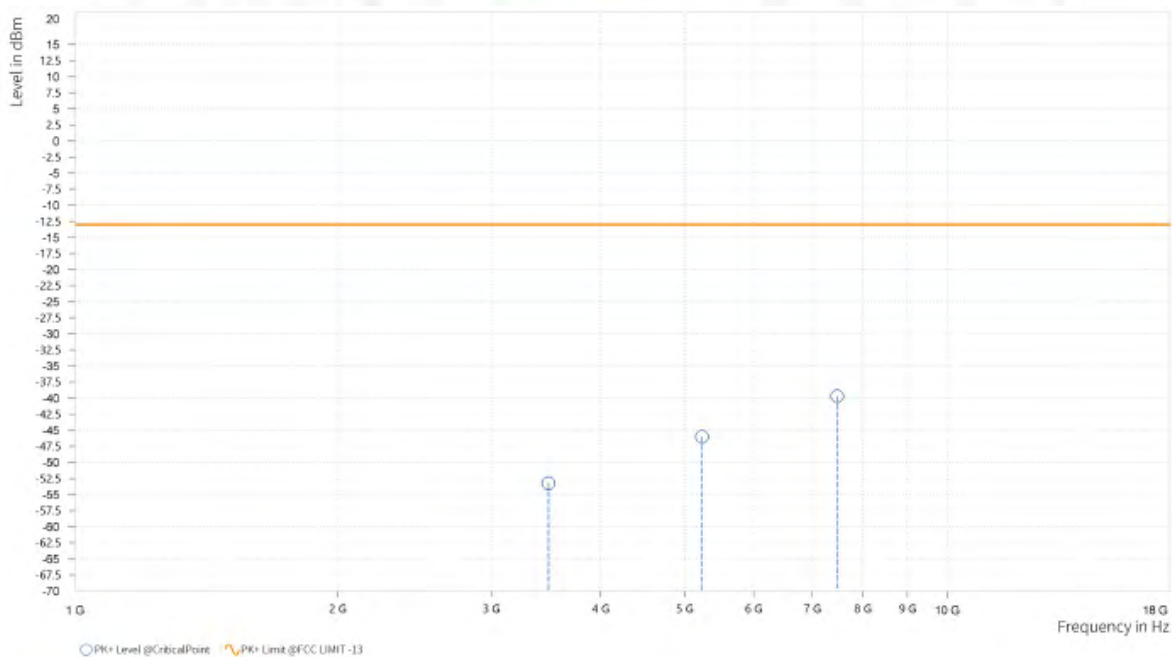


LTE B66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

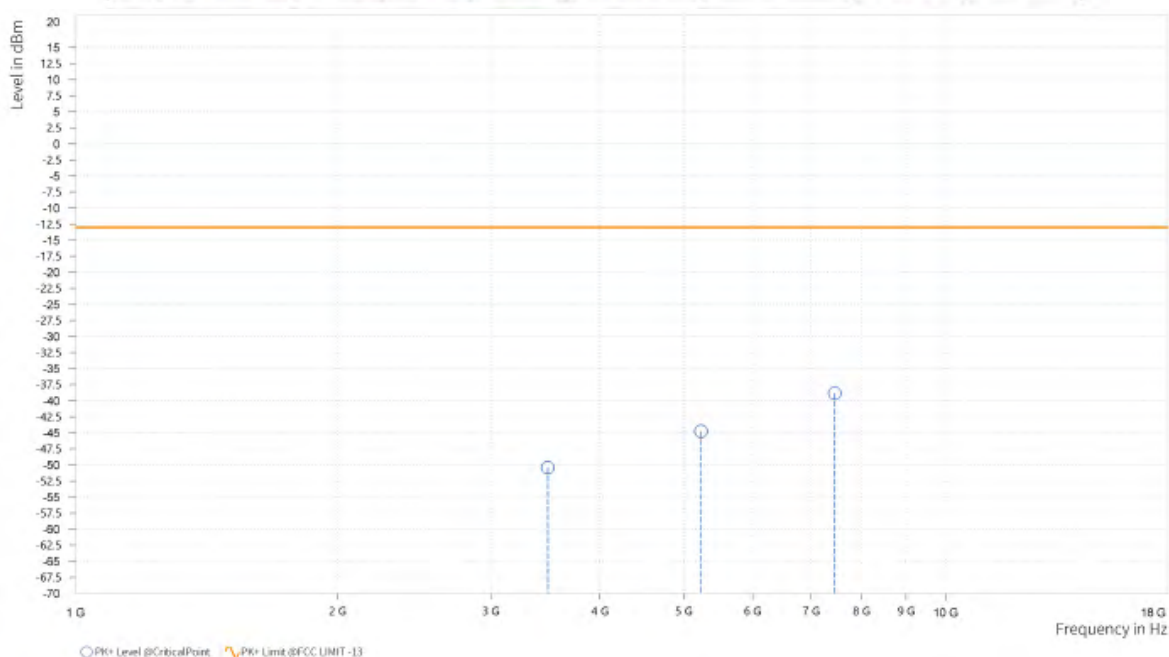
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,489.000	-53.23	-13.00	40.23	21.84	H	158.3	2
4	5,233.500	-46.03	-13.00	33.03	26.10	H	215.9	1
5	7,478.500	-39.73	-13.00	26.73	31.72	H	301.8	1



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

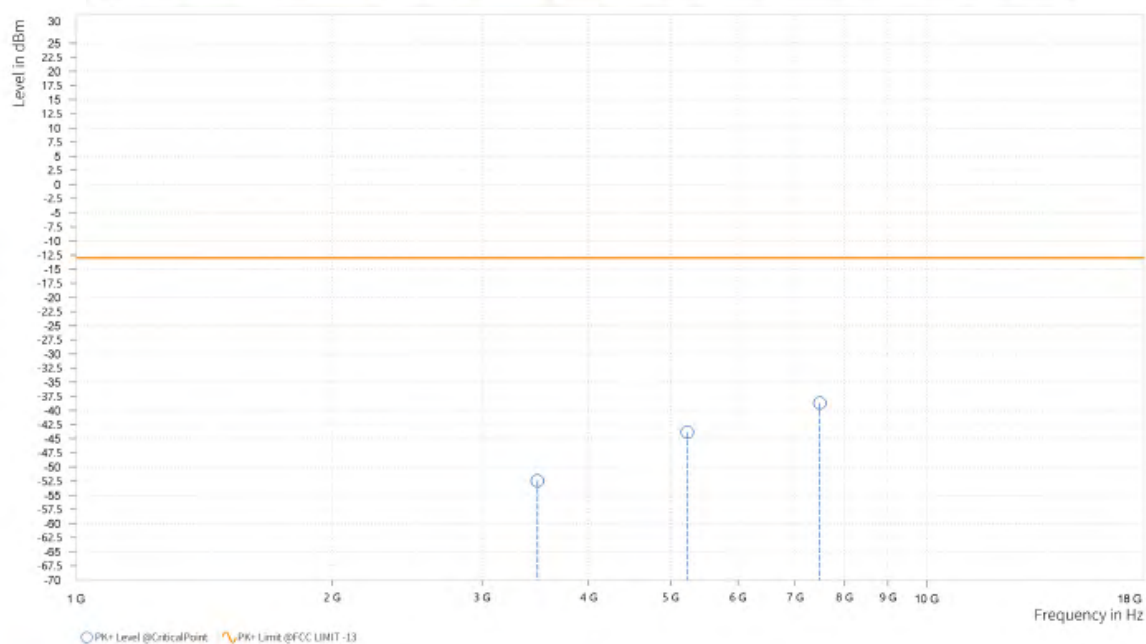
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,489.000	-50.43	-13.00	37.43	21.93	V	173.8	2
4	5,234.000	-44.77	-13.00	31.77	25.82	V	173.8	2
5	7,455.000	-38.86	-13.00	25.86	31.72	V	290.1	1



CHANNEL BANDWIDTH: 3MHz / QPSK

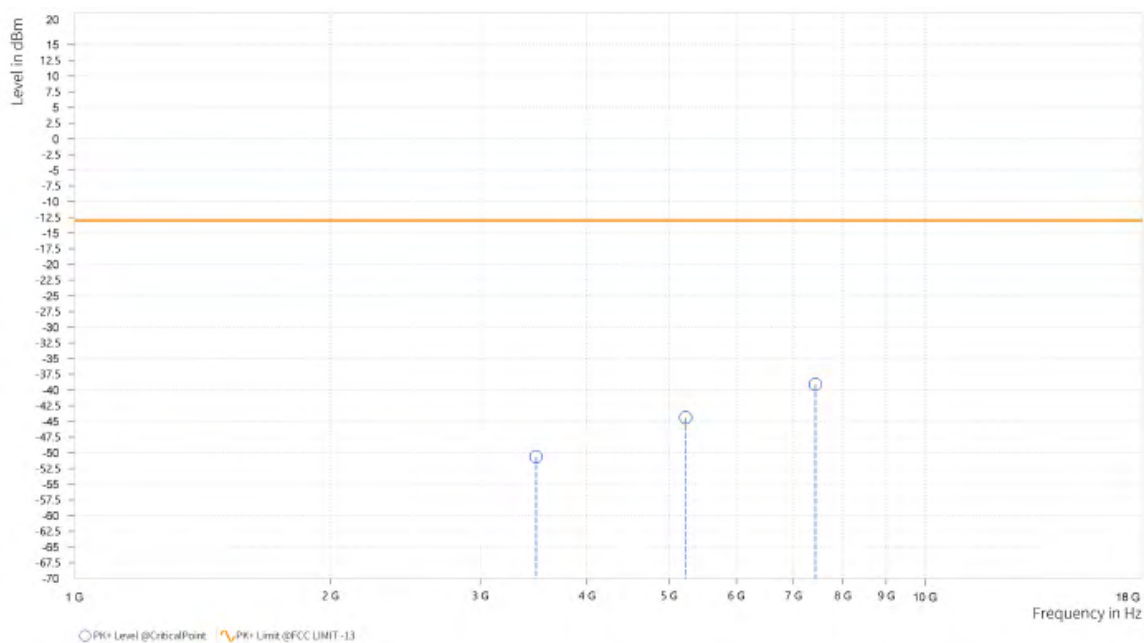
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,487.000	-52.44	-13.00	39.44	21.84	H	1	1
4	5,231.000	-43.87	-13.00	30.87	26.08	H	199.2	1
5	7,485.500	-38.69	-13.00	25.69	31.76	H	0.9	2



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

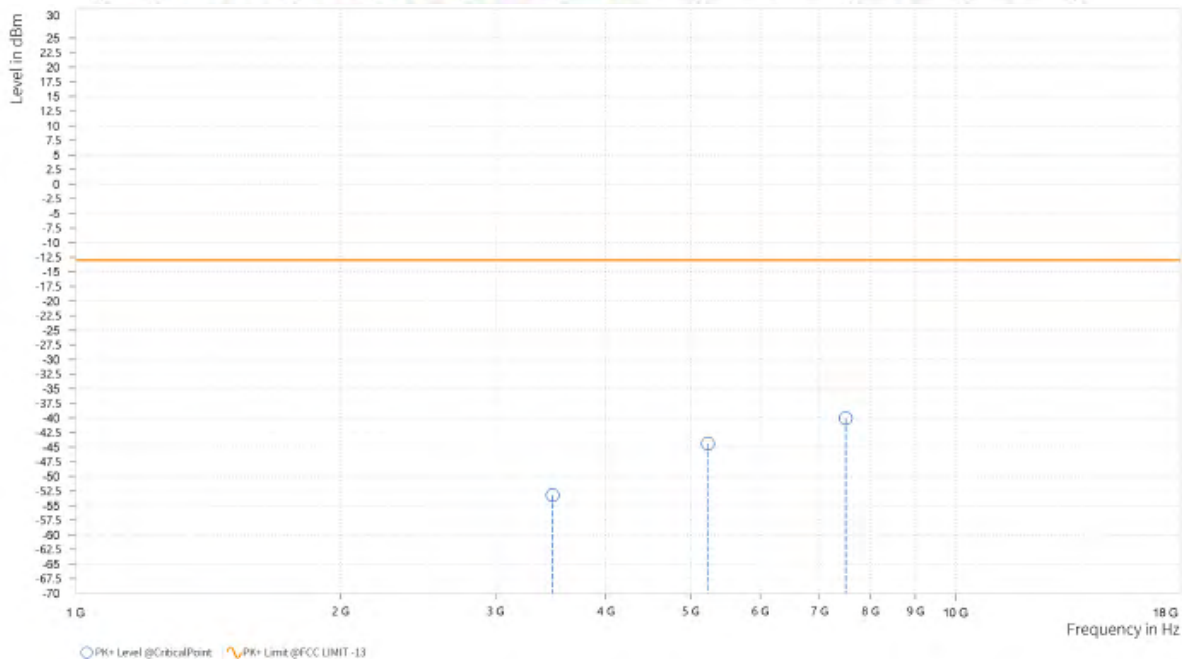
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,487.500	-50.64	-13.00	37.64	21.93	V	175.1	2
4	5,231.500	-44.40	-13.00	31.40	25.81	V	175.1	2
5	7,430.500	-39.09	-13.00	26.09	31.74	V	0.9	2



CHANNEL BANDWIDTH: 5MHz / QPSK

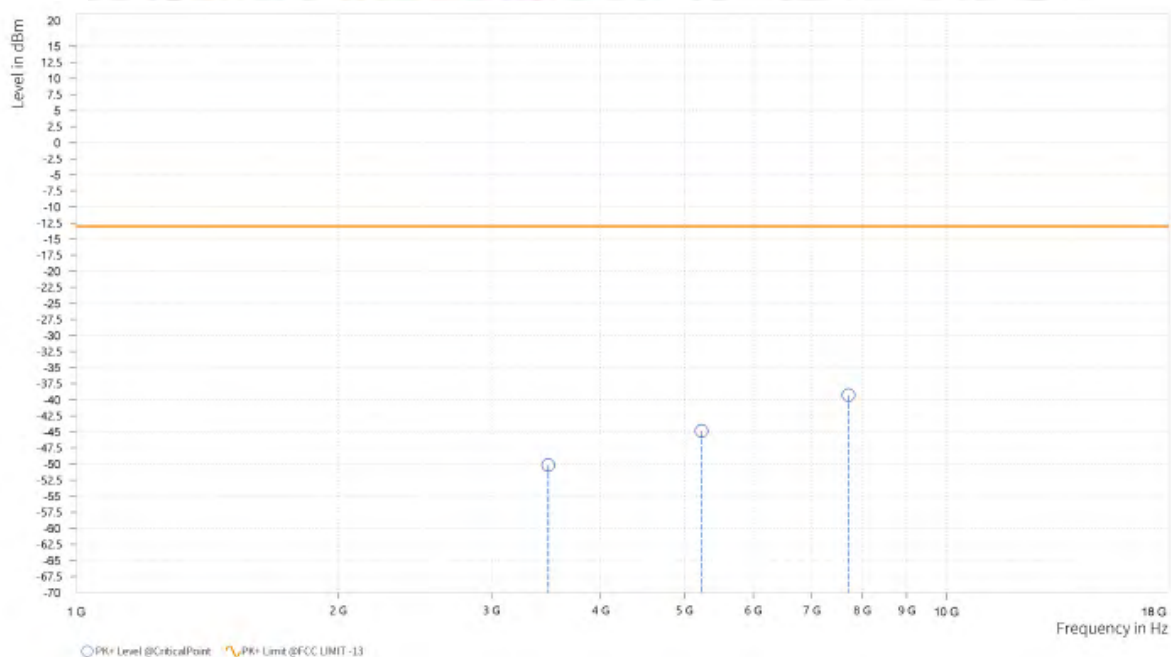
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,485.000	-53.21	-13.00	40.21	21.84	H	1	2
4	5,229.000	-44.40	-13.00	31.40	26.07	H	199.2	1
5	7,502.000	-40.06	-13.00	27.06	31.86	H	1	2



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,485.500	-50.17	-13.00	37.17	21.93	V	176.2	2
4	5,228.500	-44.86	-13.00	31.86	25.79	V	176.2	2
5	7,718.000	-39.25	-13.00	26.25	32.96	V	1	1

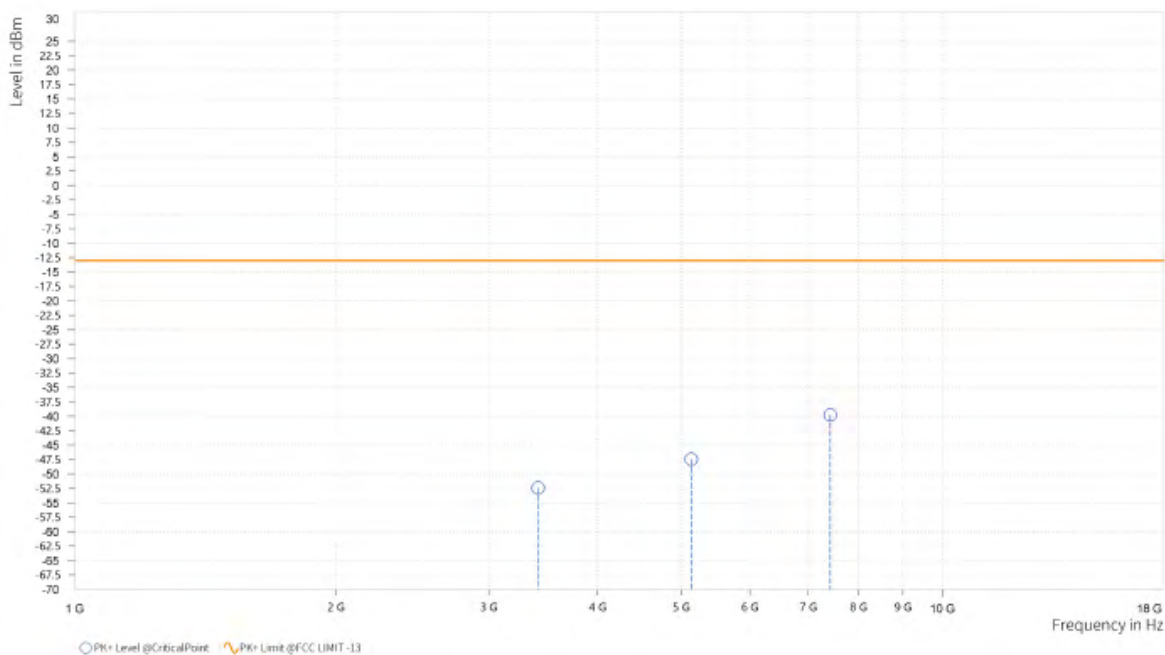


CHANNEL BANDWIDTH: 10MHz / QPSK

CH132022

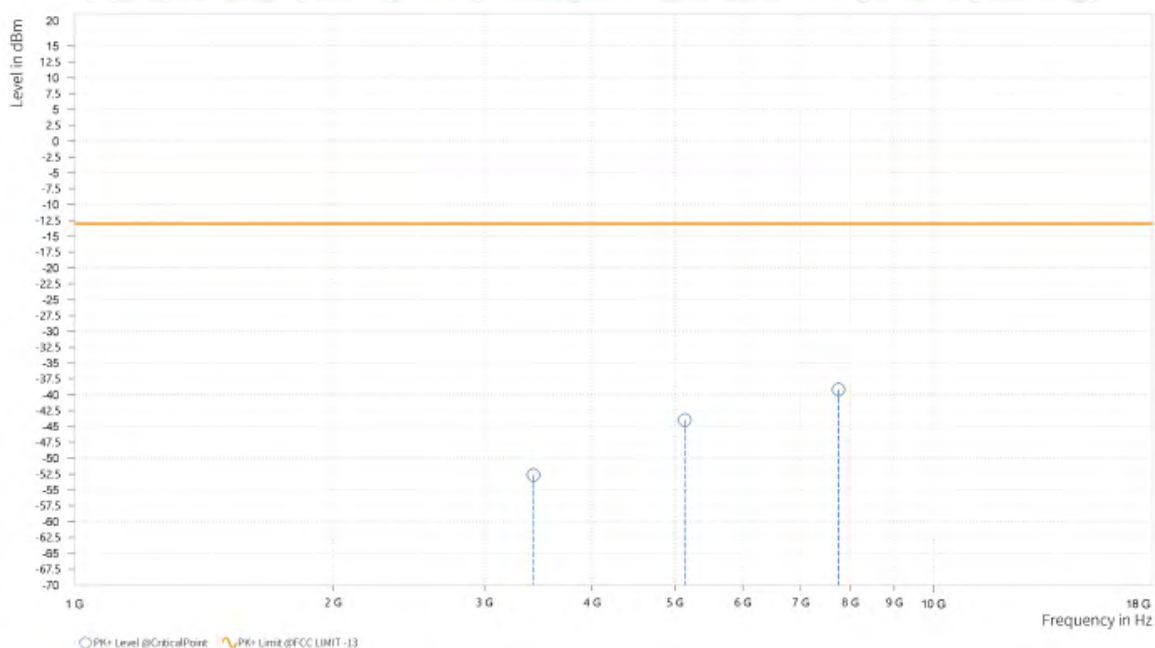
MODE	TX channel 132022	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,420.500	-52.40	-13.00	39.40	21.94	H	0.9	2
4	5,132.000	-47.49	-13.00	34.49	26.20	H	196.9	1
5	7,426.500	-39.78	-13.00	26.78	31.59	H	1	1



MODE	TX channel 132022	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

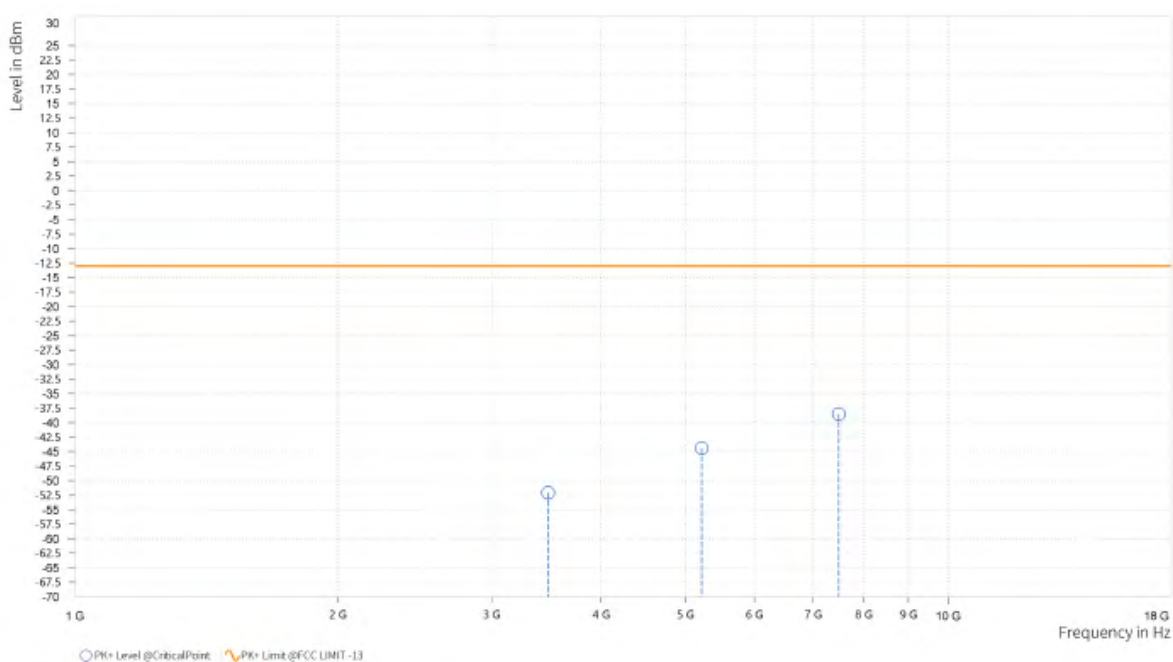
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,421.500	-52.66	-13.00	39.66	22.01	V	184.7	1
4	5,132.000	-43.97	-13.00	30.97	26.21	V	173.8	2
5	7,752.000	-39.20	-13.00	26.20	33.03	V	270.9	1



CH132322

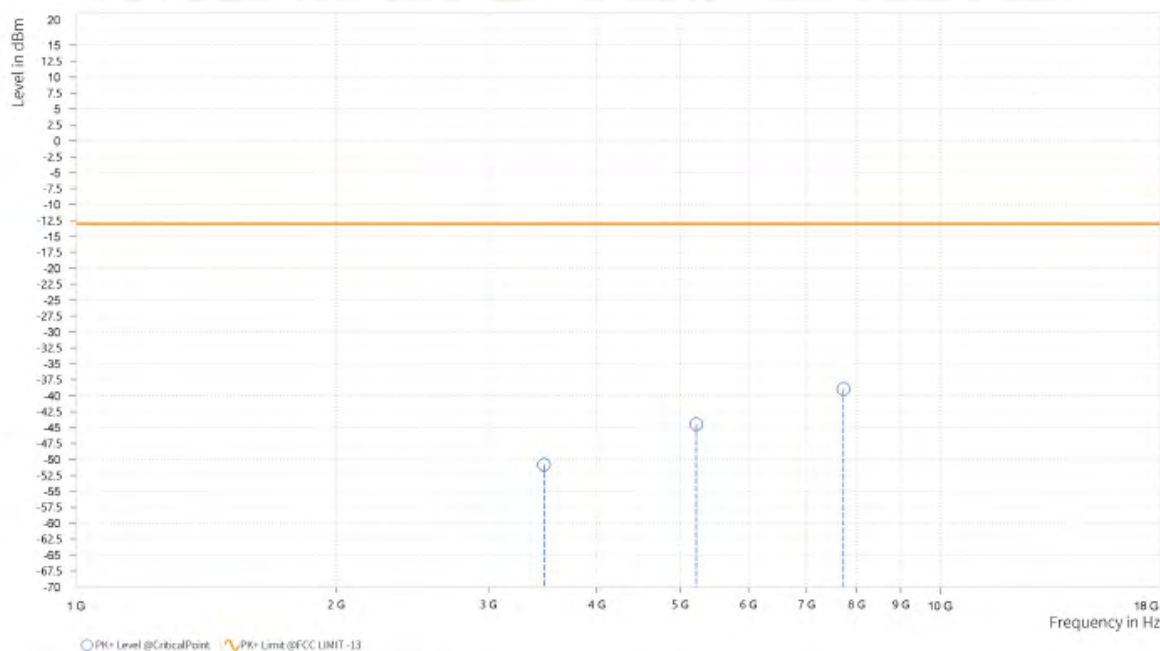
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,482.500	-52.06	-13.00	39.06	21.85	H	198	1
4	5,221.500	-44.40	-13.00	31.40	26.03	H	159.6	2
5	7,490.500	-38.52	-13.00	25.52	31.79	H	1	2



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

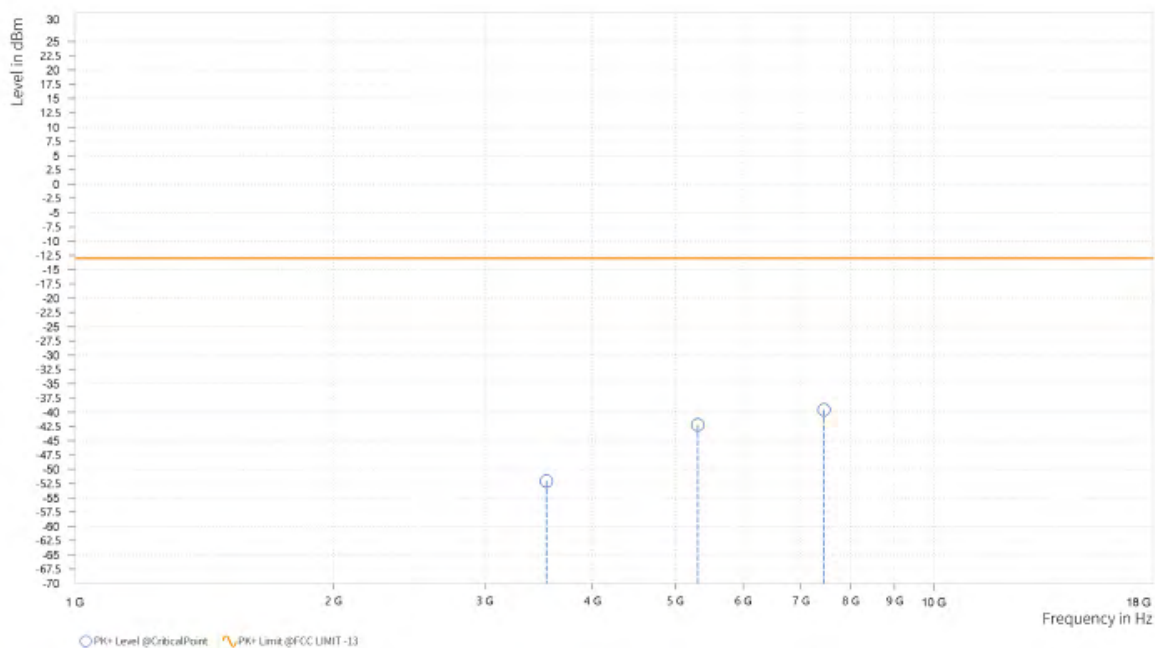
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,480.500	-50.80	-13.00	37.80	21.92	V	175.1	2
4	5,221.500	-44.48	-13.00	31.48	25.74	V	175.1	2
5	7,727.500	-38.97	-13.00	25.97	33.00	V	1	1



CH132622

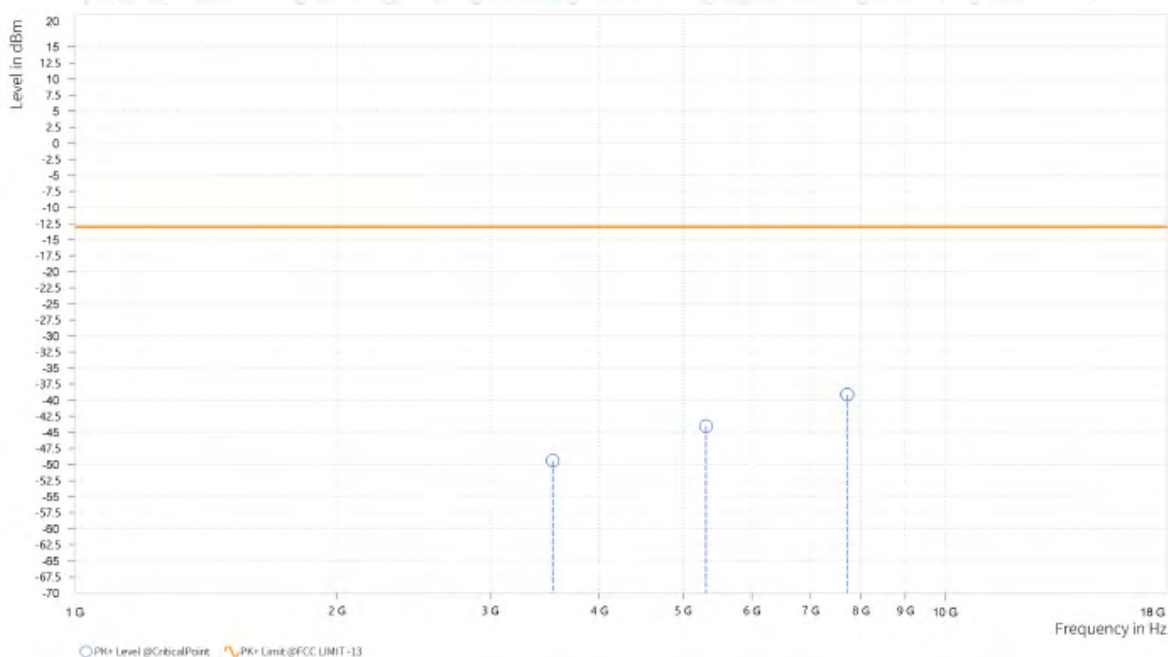
MODE	TX channel 132622	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,541.000	-52.08	-13.00	39.08	21.86	H	359	1
4	5,312.000	-42.23	-13.00	29.23	27.21	H	199.2	1
5	7,448.000	-39.56	-13.00	26.56	31.61	H	74.7	2



MODE	TX channel 132622	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

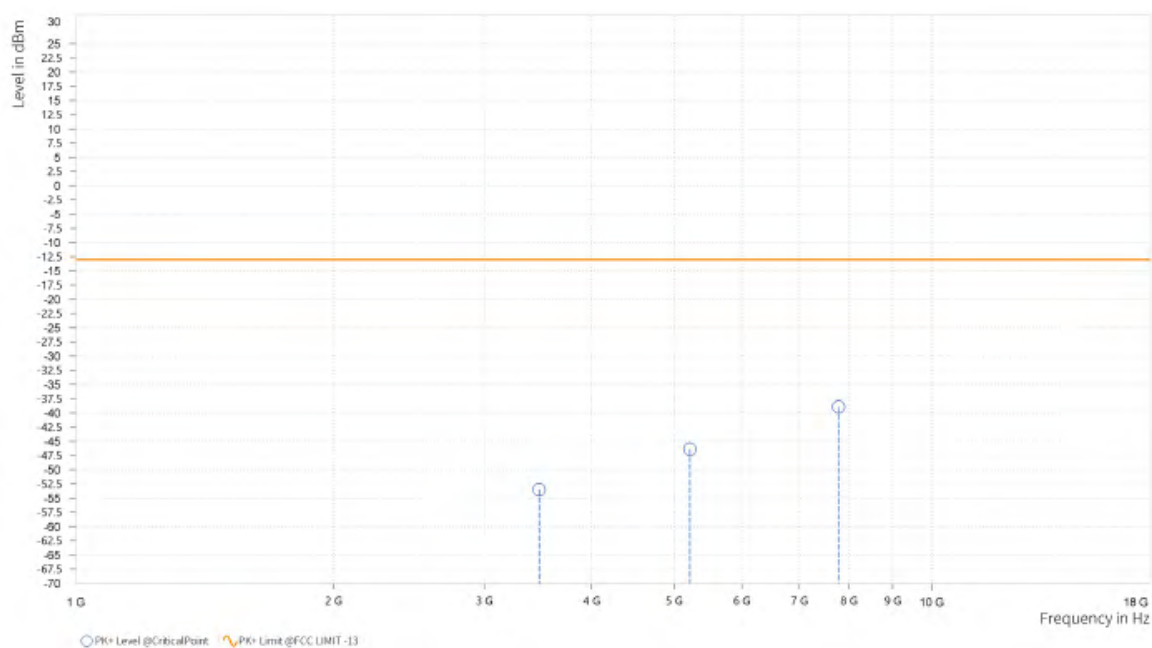
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,541.000	-49.40	-13.00	36.40	22.03	V	173.9	2
4	5,312.000	-44.02	-13.00	31.02	26.60	V	184.7	1
5	7,716.500	-39.10	-13.00	26.10	32.96	V	359.1	1



CHANNEL BANDWIDTH: 15MHz / QPSK

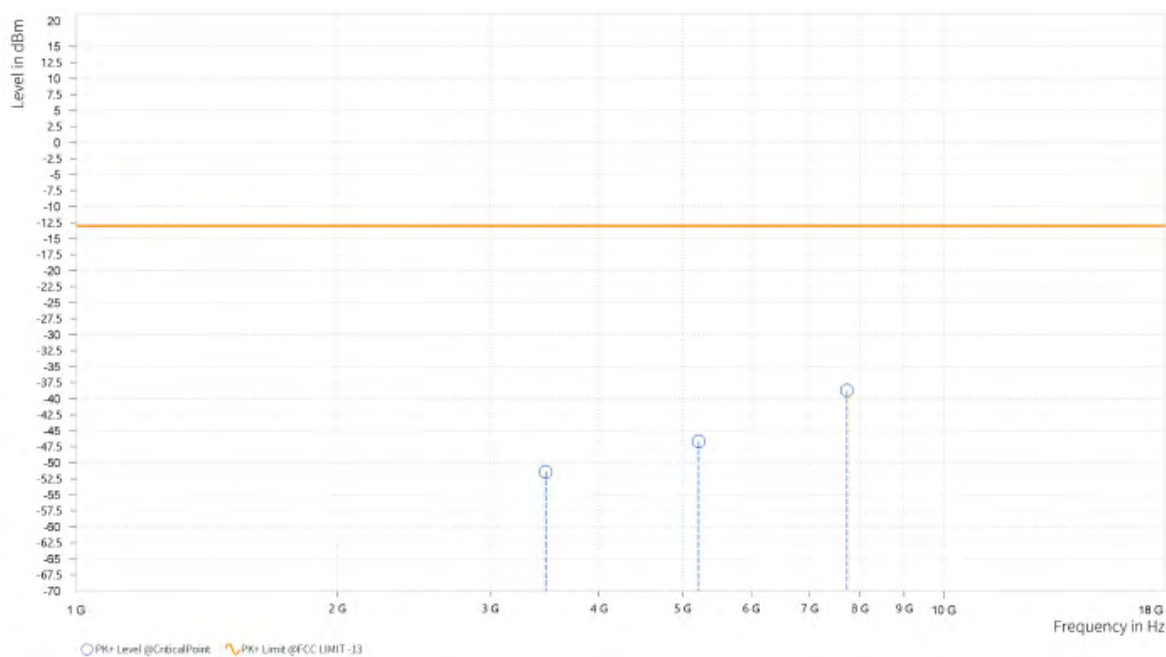
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,477.000	-53.49	-13.00	40.49	21.85	H	205.1	1
4	5,215.000	-46.39	-13.00	33.39	25.99	H	205.1	1
5	7,782.000	-38.96	-13.00	25.96	32.87	H	291.2	1



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

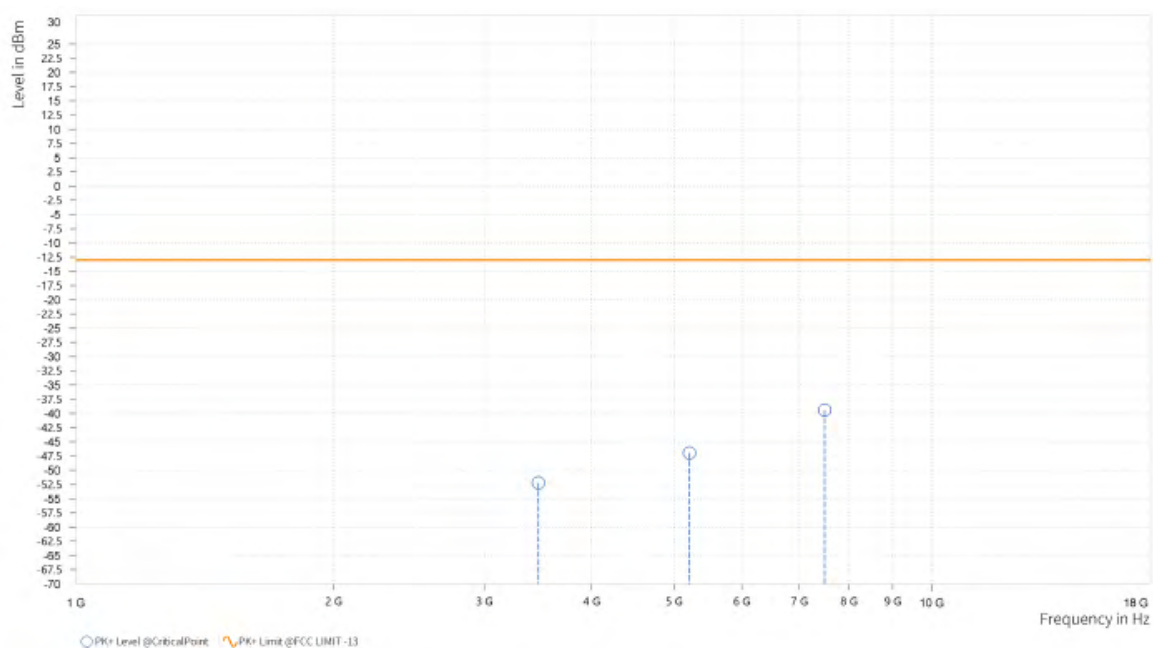
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4	3,476.500	-51.42	-13.00	38.42	21.92	V	175.1	2
4	5,215.000	-46.65	-13.00	33.65	25.70	V	175.1	2
5	7,733.000	-38.70	-13.00	25.70	33.02	V	87.8	2



CHANNEL BANDWIDTH: 20MHz / QPSK

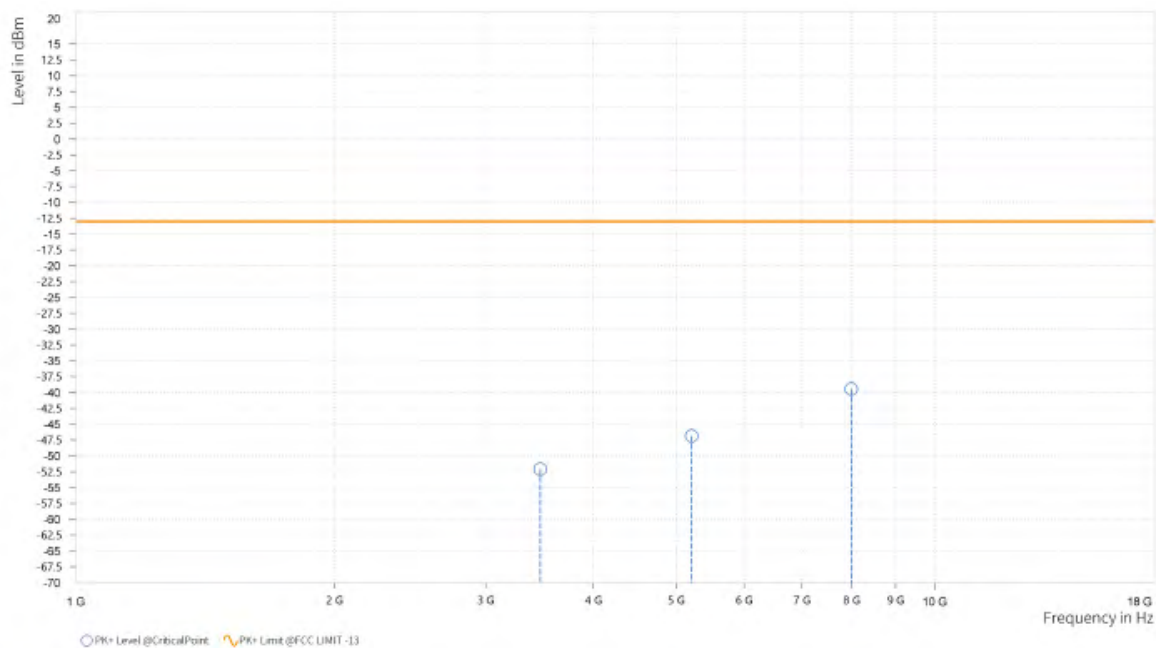
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,471.500	-52.21	-13.00	39.21	21.85	H	151.2	2
4	5,208.500	-46.97	-13.00	33.97	26.00	H	198	1
5	7,496.500	-39.42	-13.00	26.42	31.83	H	49.6	2



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,472.000	-52.09	-13.00	39.09	21.91	V	177.4	2
4	5,208.500	-46.86	-13.00	33.86	25.70	V	177.4	2
5	7,991.000	-39.45	-13.00	26.45	33.33	V	87.8	2

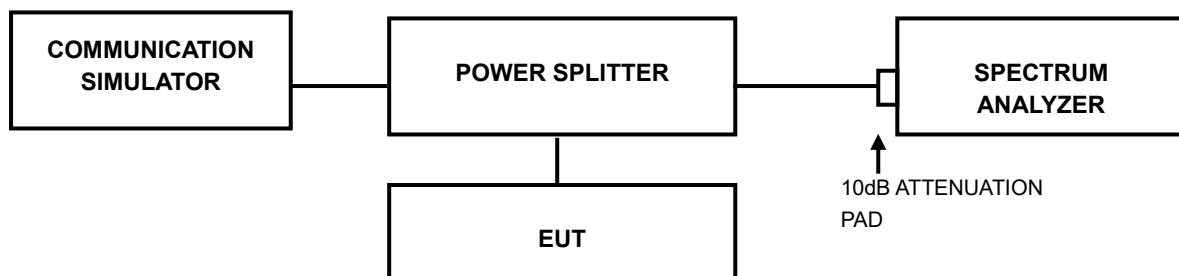


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 APPENDIX

LTE BAND41 (INCLUDING LTE BAND38)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	3.73	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	5.04	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	4.07	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.80	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	4.19	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.40	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	5.45	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.77	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	5.91	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.90	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	5.34	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.64	13	PASS
Band41	5MHz	64QAM	39675	1RB#0	6.40	13	PASS
Band41	5MHz	64QAM	39675	25RB#0	6.60	13	PASS
Band41	5MHz	64QAM	40620	1RB#0	6.73	13	PASS
Band41	5MHz	64QAM	40620	25RB#0	7.06	13	PASS
Band41	5MHz	64QAM	41565	1RB#0	6.97	13	PASS
Band41	5MHz	64QAM	41565	25RB#0	7.25	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	4.25	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	4.90	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	3.82	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.15	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	3.81	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.02	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	5.43	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	5.87	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	5.73	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.98	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	5.85	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	5.88	13	PASS
Band41	10MHz	64QAM	39700	1RB#0	6.79	13	PASS
Band41	10MHz	64QAM	39700	50RB#0	7.28	13	PASS
Band41	10MHz	64QAM	40620	1RB#0	7.36	13	PASS
Band41	10MHz	64QAM	40620	50RB#0	7.29	13	PASS
Band41	10MHz	64QAM	41540	1RB#0	6.94	13	PASS
Band41	10MHz	64QAM	41540	50RB#0	7.30	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	3.82	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.22	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	3.93	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.42	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	4.37	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.32	13	PASS



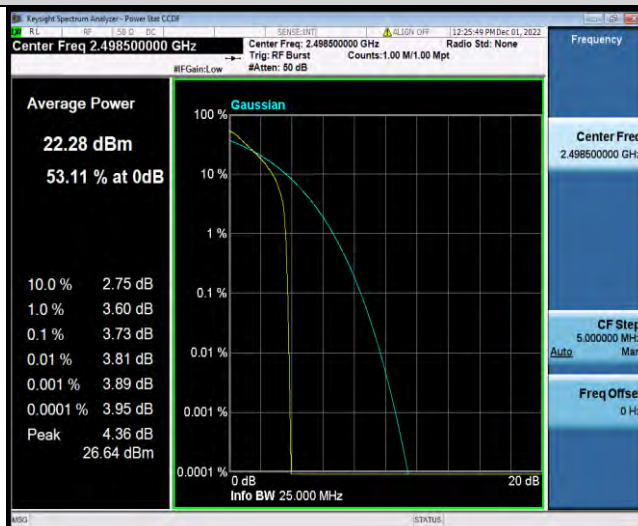
BUREAU
VERITAS

Test Report No.: W7L-P22110036RF07

Band41	15MHz	16QAM	39725	1RB#0	5.32	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	5.96	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	5.69	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.11	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	5.89	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.05	13	PASS
Band41	15MHz	64QAM	39725	1RB#0	6.79	13	PASS
Band41	15MHz	64QAM	39725	75RB#0	6.55	13	PASS
Band41	15MHz	64QAM	40620	1RB#0	7.31	13	PASS
Band41	15MHz	64QAM	40620	75RB#0	6.64	13	PASS
Band41	15MHz	64QAM	41515	1RB#0	6.79	13	PASS
Band41	15MHz	64QAM	41515	75RB#0	6.58	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	3.84	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.10	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	3.74	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.23	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	3.65	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.22	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	4.90	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.89	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	5.64	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.02	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	5.68	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.99	13	PASS
Band41	20MHz	64QAM	39750	1RB#0	6.98	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.60	13	PASS
Band41	20MHz	64QAM	40620	1RB#0	7.03	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.61	13	PASS
Band41	20MHz	64QAM	41490	1RB#0	7.87	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	6.67	13	PASS

Test Graphs

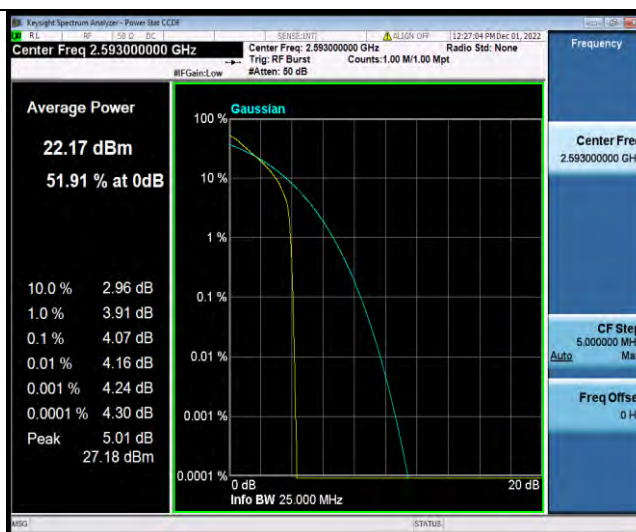
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Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-1RB#0



Band41-5MHz-QPSK-40620-25RB#0



Band41-5MHz-QPSK-41565-1RB#0

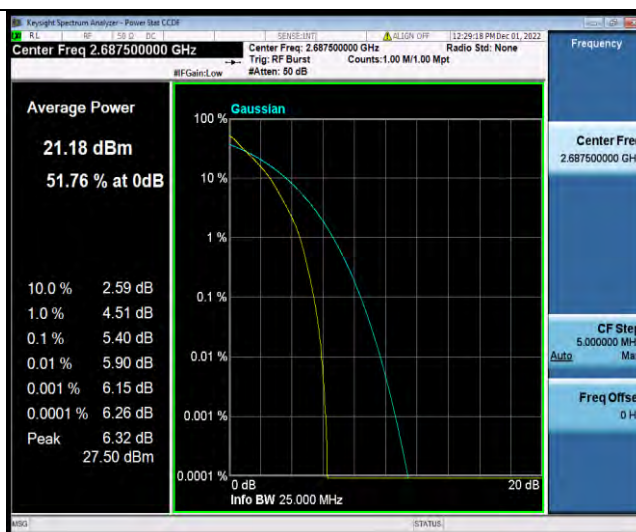


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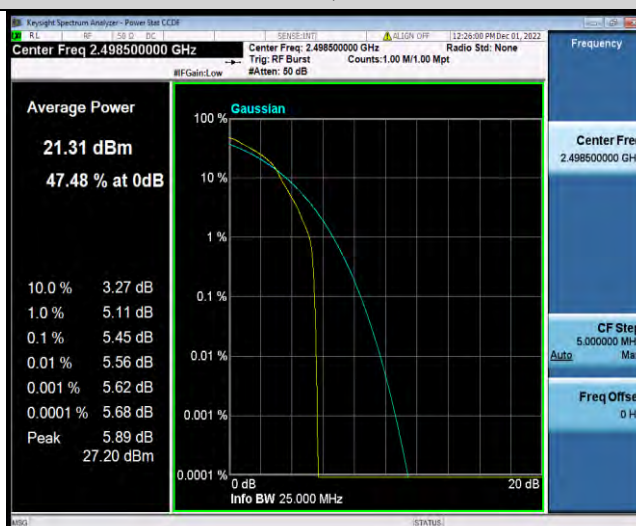


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VERITAS

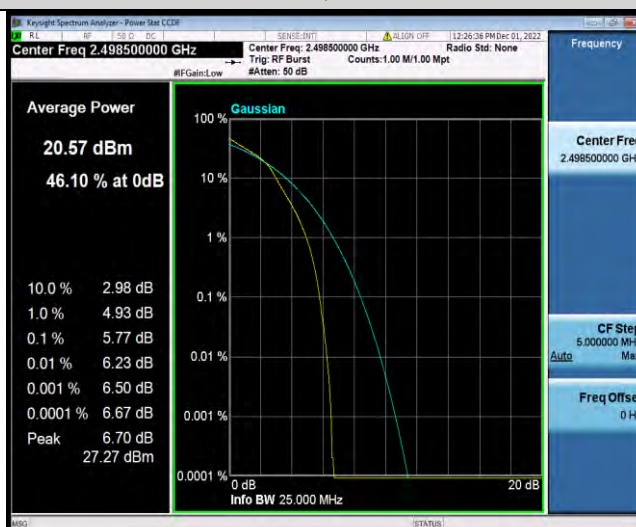
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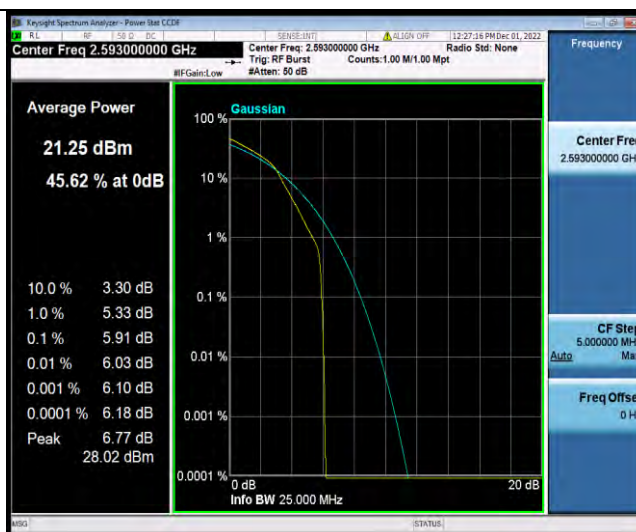
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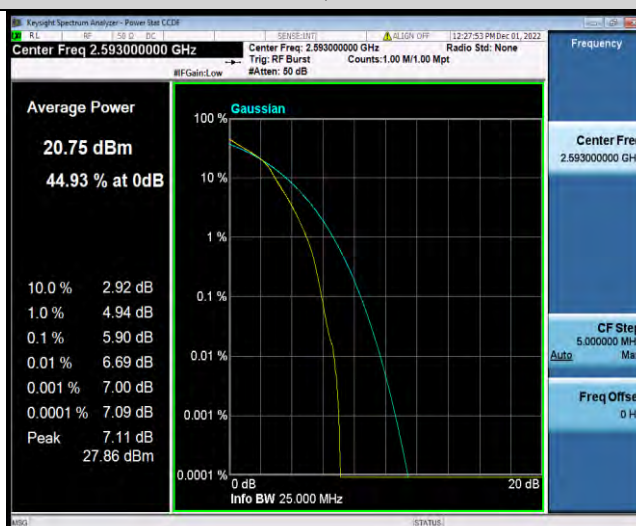
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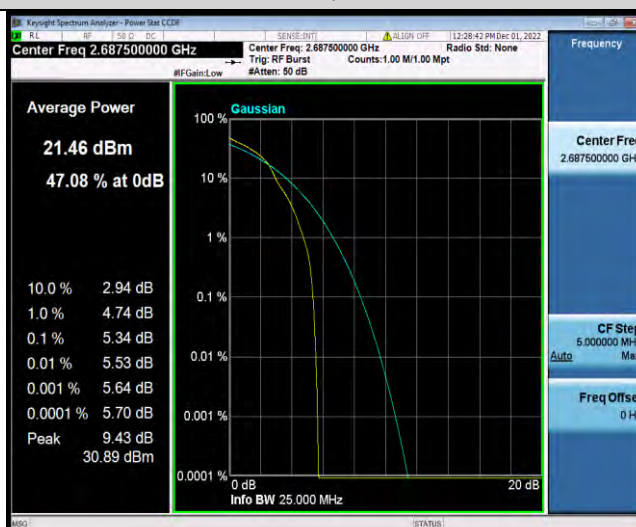
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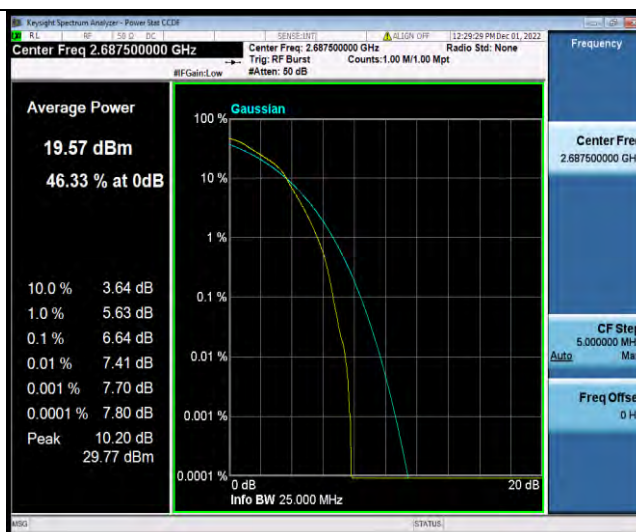
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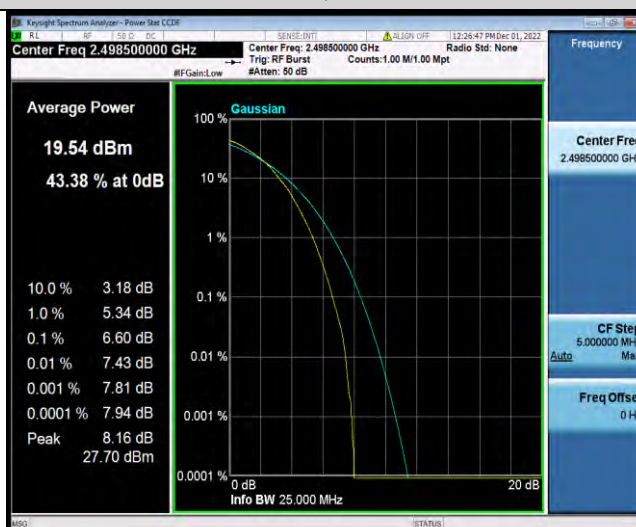
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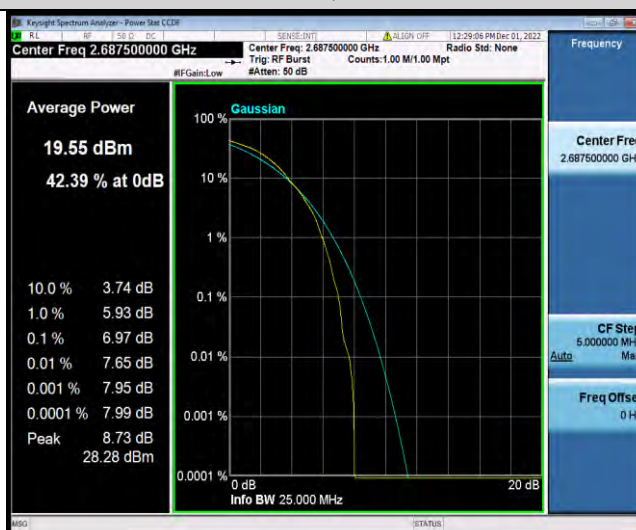
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