

ANNEX A - MEASUREMENT RESULTS

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1 MAXIMUM OUTPUT POWER

Antenna gain (dBi)	0.38									
LTE Band 106_Uplink frequency band : 897.5 to 900.5 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	134314	898.2	QPSK	1	0	22.92	23.30	21.15	34.77	-13.62
				1	5	22.77	23.15	21.00	34.77	-13.77
				3	2	22.77	23.15	21.00	34.77	-13.77
				6	0	21.97	22.35	20.20	34.77	-14.57
	134322	899	QPSK	1	0	22.96	23.34	21.19	34.77	-13.58
				1	5	22.79	23.17	21.02	34.77	-13.75
				3	2	22.94	23.32	21.17	34.77	-13.60
				6	0	21.92	22.30	20.15	34.77	-14.62
	134330	899.8	QPSK	1	0	22.95	23.33	21.18	34.77	-13.59
				1	5	22.89	23.27	21.12	34.77	-13.65
				3	2	22.80	23.18	21.03	34.77	-13.74
				6	0	22.03	22.41	20.26	34.77	-14.51
1.4	134314	898.2	16QAM	1	0	22.16	22.54	20.39	34.77	-14.38
				1	5	22.09	22.47	20.32	34.77	-14.45
				3	2	22.01	22.39	20.24	34.77	-14.53
				6	0	21.03	21.41	19.26	34.77	-15.51
	134322	899	16QAM	1	0	22.18	22.56	20.41	34.77	-14.36
				1	5	22.00	22.38	20.23	34.77	-14.54
				3	2	22.13	22.51	20.36	34.77	-14.41
				6	0	21.05	21.43	19.28	34.77	-15.49
	134330	899.8	16QAM	1	0	22.09	22.47	20.32	34.77	-14.45
				1	5	22.02	22.40	20.25	34.77	-14.52
				3	2	22.06	22.44	20.29	34.77	-14.48
				6	0	21.10	21.48	19.33	34.77	-15.44
1.4	134314	898.2	64QAM	1	0	21.05	21.43	19.28	34.77	-15.49
				1	5	21.00	21.38	19.23	34.77	-15.54
				3	2	21.10	21.48	19.33	34.77	-15.44
				6	0	20.03	20.41	18.26	34.77	-16.51
	134322	899	64QAM	1	0	22.01	22.39	20.24	34.77	-14.53
				1	5	21.86	22.24	20.09	34.77	-14.68
				3	2	21.98	22.36	20.21	34.77	-14.56
				6	0	20.95	21.33	19.18	34.77	-15.59
	134330	899.8	64QAM	1	0	21.06	21.44	19.29	34.77	-15.48
				1	5	21.05	21.43	19.28	34.77	-15.49
				3	2	21.03	21.41	19.26	34.77	-15.51
				6	0	20.02	20.40	18.25	34.77	-16.52
1.4	134314	898.2	256QAM	1	0	18.09	18.47	16.32	34.77	-18.45
				1	5	17.91	18.29	16.14	34.77	-18.63
				3	2	18.00	18.38	16.23	34.77	-18.54
				6	0	17.95	18.33	16.18	34.77	-18.59
	134322	899	256QAM	1	0	17.98	18.36	16.21	34.77	-18.56
				1	5	17.78	18.16	16.01	34.77	-18.76
				3	2	17.97	18.35	16.20	34.77	-18.57
				6	0	17.96	18.34	16.19	34.77	-18.58
	134330	899.8	256QAM	1	0	18.05	18.43	16.28	34.77	-18.49
				1	5	18.02	18.40	16.25	34.77	-18.52
				3	2	17.74	18.12	15.97	34.77	-18.80
				6	0	17.83	18.21	16.06	34.77	-18.71

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Antenna gain (dBi)	0.38									
LTE Band 106_Uplink frequency band : 897.5 to 900.5 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	134322	899	QPSK	1	0	22.95	23.33	21.18	34.77	-13.59
				1	14	22.92	23.30	21.15	34.77	-13.62
				8	4	22.06	22.44	20.29	34.77	-14.48
				15	0	21.98	22.36	20.21	34.77	-14.56
3	134322	899	16QAM	1	0	22.03	22.41	20.26	34.77	-14.51
				1	14	21.97	22.35	20.20	34.77	-14.57
				8	4	21.04	21.42	19.27	34.77	-15.50
				15	0	21.00	21.38	19.23	34.77	-15.54
3	134322	899	64QAM	1	0	21.08	21.46	19.31	34.77	-15.46
				1	14	21.01	21.39	19.24	34.77	-15.53
				8	4	20.04	20.42	18.27	34.77	-16.50
				15	0	19.97	20.35	18.20	34.77	-16.57
3	134322	899	256QAM	1	0	18.08	18.46	16.31	34.77	-18.46
				1	14	17.90	18.28	16.13	34.77	-18.64
				8	4	17.94	18.32	16.17	34.77	-18.60
				15	0	17.91	18.29	16.14	34.77	-18.63

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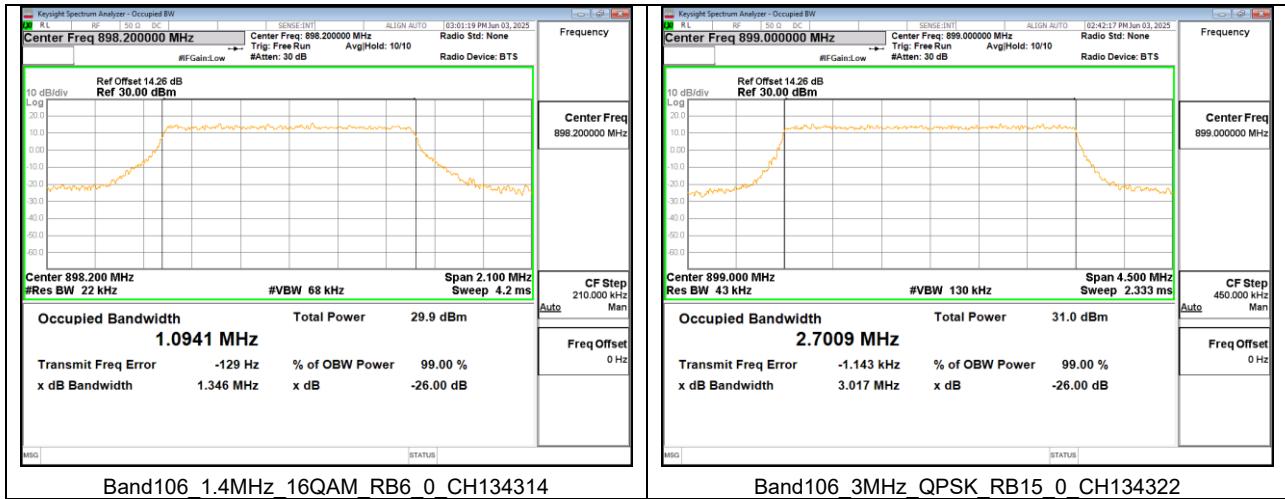
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2 OCCUPIED BANDWIDTH MEASUREMENT

LTE BAND 106 Channel bandwidth: 1.4MHz										
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)				
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
898.2	134314	1.0881	1.0941	1.0913	1.0908	1.284	1.346	1.323	1.298	
899.0	134322	1.0896	1.0911	1.0895	1.0932	1.315	1.329	1.313	1.332	
899.8	134330	1.0884	1.0934	1.0893	1.0913	1.334	1.357	1.325	1.326	

LTE BAND 106 Channel bandwidth: 3MHz										
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)				
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
899.0	134322	2.7009	2.6927	2.6953	2.6978	3.017	3.039	3.014	3.027	



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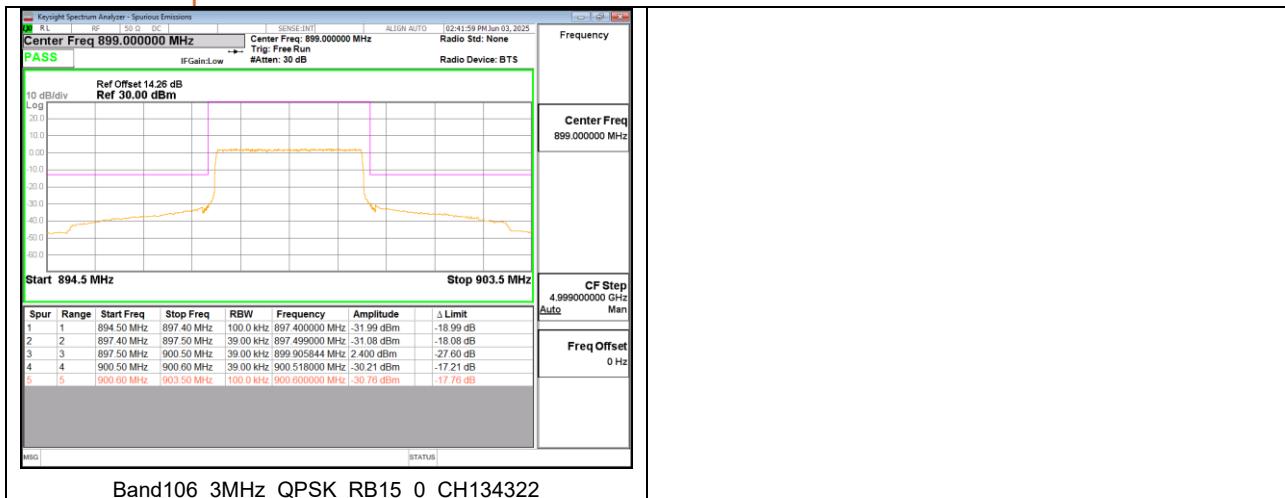
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3 OUT OF BAND EMISSION AT ANTENNA TERMINALS



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4 SPURIOUS EMISSION AT ANTENNA TERMINALS



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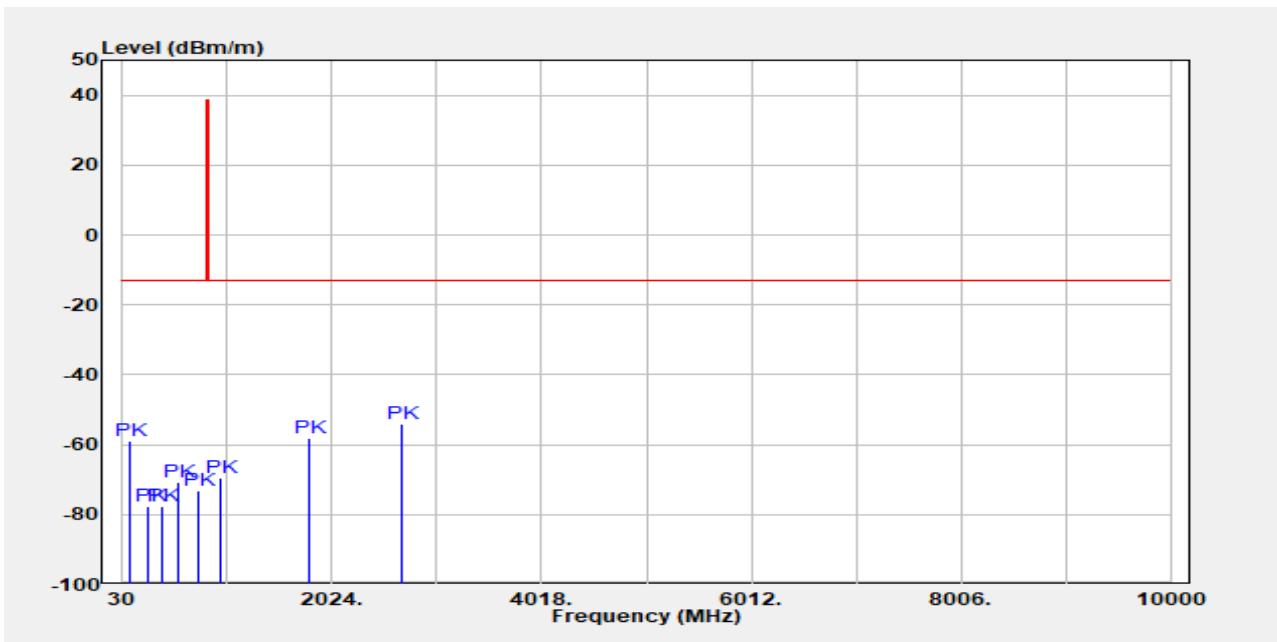
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5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

5.1 Spurious Emission

Report Number	:TERF2505001834ER	Test Site	:SAC 1
Operation Mode	:LTE B106	Test Date	:2025-06-05
Test Mode	:Tx	Temp./Humi.	:24.0°C/55%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:898.2 MHz	Engineer	:WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit	Margin
					dBm	dB
103.72	-58.82	-55.56	-1.39	-1.86	-13.00	-45.82
280.26	-77.69	-78.35	3.72	-3.06	-13.00	-64.69
412.18	-77.64	-78.02	4.08	-3.70	-13.00	-64.64
551.86	-70.59	-70.85	4.55	-4.29	-13.00	-57.59
754.59	-72.98	-71.53	3.54	-4.99	-13.00	-59.98
967.99	-69.58	-67.14	3.24	-5.67	-13.00	-56.58
1796.40	-58.18	-60.46	10.06	-7.79	-13.00	-45.18
2694.60	-54.25	-55.31	10.70	-9.64	-13.00	-41.25

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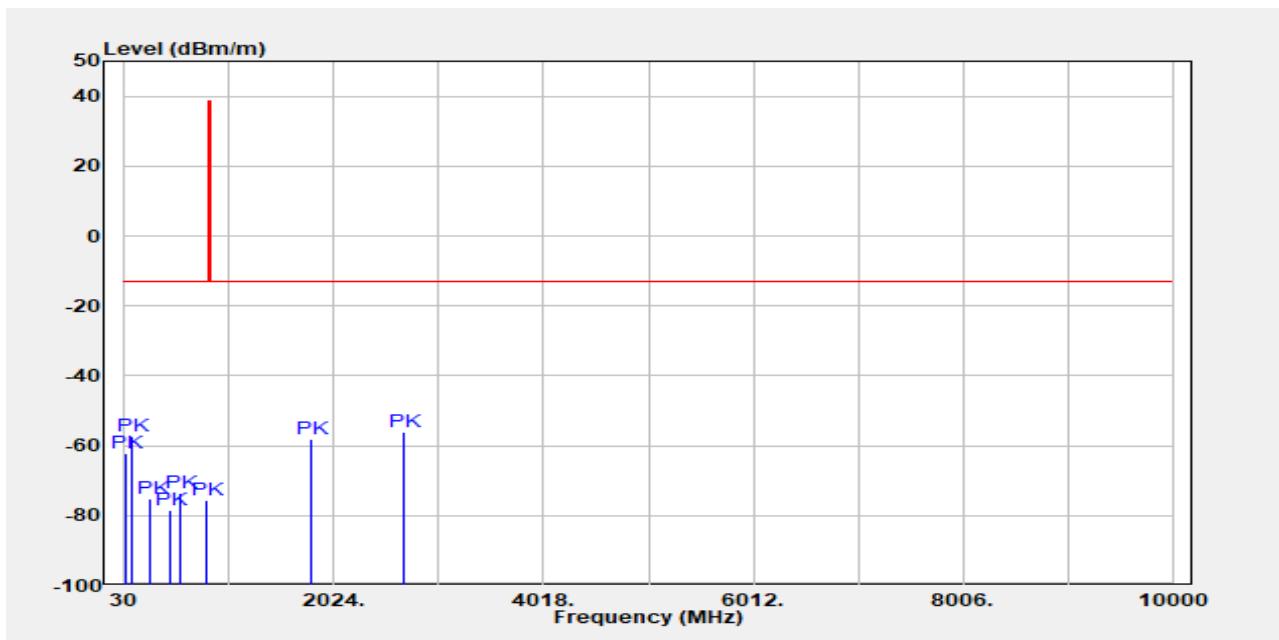
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Report Number :TERF2505001834ER Test Site :SAC 1
 Operation Mode :LTE B106 Test Date :2025-06-05
 Test Mode :Tx Temp./Humi. :24.0°C/55%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :898.2 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-62.39	-48.61	-12.56	-1.22	-13.00	-49.39
103.72	-57.52	-54.26	-1.39	-1.86	-13.00	-44.52
280.26	-75.04	-75.70	3.72	-3.06	-13.00	-62.04
464.56	-78.39	-78.29	3.83	-3.93	-13.00	-65.39
550.89	-73.70	-73.98	4.57	-4.28	-13.00	-60.70
809.88	-75.69	-73.86	3.35	-5.18	-13.00	-62.69
1796.40	-58.25	-60.53	10.06	-7.79	-13.00	-45.25
2694.60	-55.96	-57.02	10.70	-9.64	-13.00	-42.96

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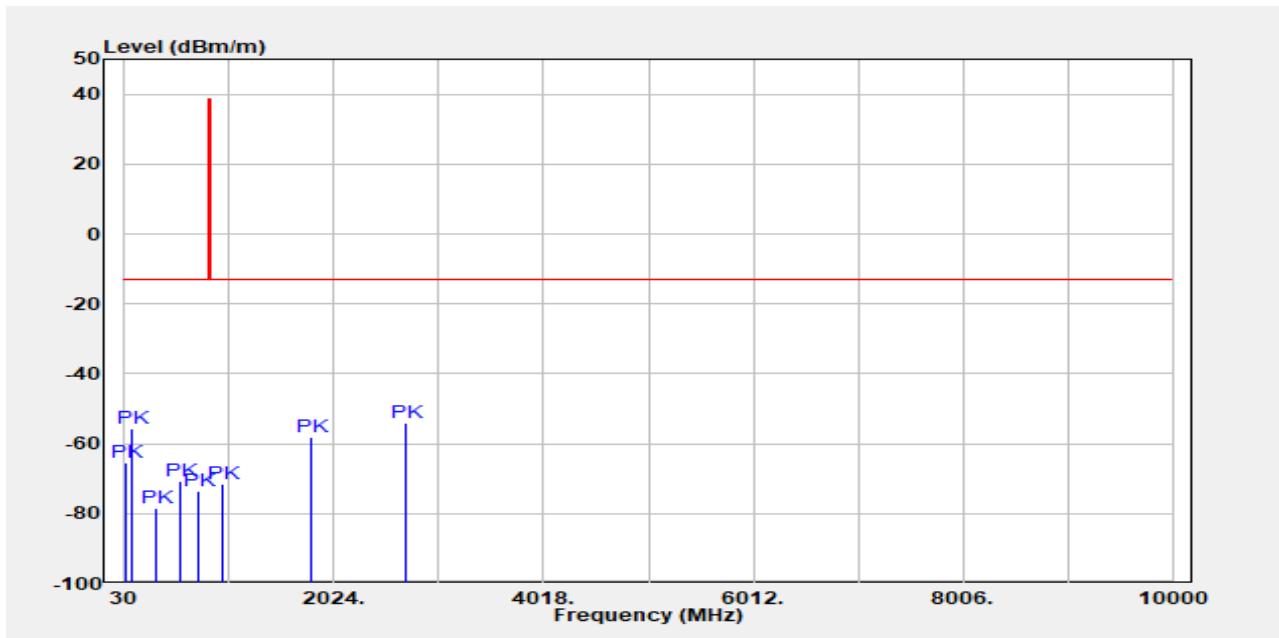
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Report Number :TERF2505001834ER Test Site :SAC 1
Operation Mode :LTE B106 Test Date :2025-06-05
Test Mode :Tx Temp./Humi. :24.0°C/55%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :899 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-65.31	-51.53	-12.56	-1.22	-13.00	-52.31
106.63	-55.61	-52.13	-1.59	-1.89	-13.00	-42.61
321.00	-78.57	-79.19	3.89	-3.28	-13.00	-65.57
549.92	-70.67	-70.98	4.59	-4.28	-13.00	-57.67
737.13	-73.69	-72.40	3.65	-4.94	-13.00	-60.69
961.20	-71.67	-69.26	3.24	-5.65	-13.00	-58.67
1798.00	-58.33	-60.61	10.08	-7.80	-13.00	-45.33
2697.00	-54.17	-55.22	10.70	-9.64	-13.00	-41.17

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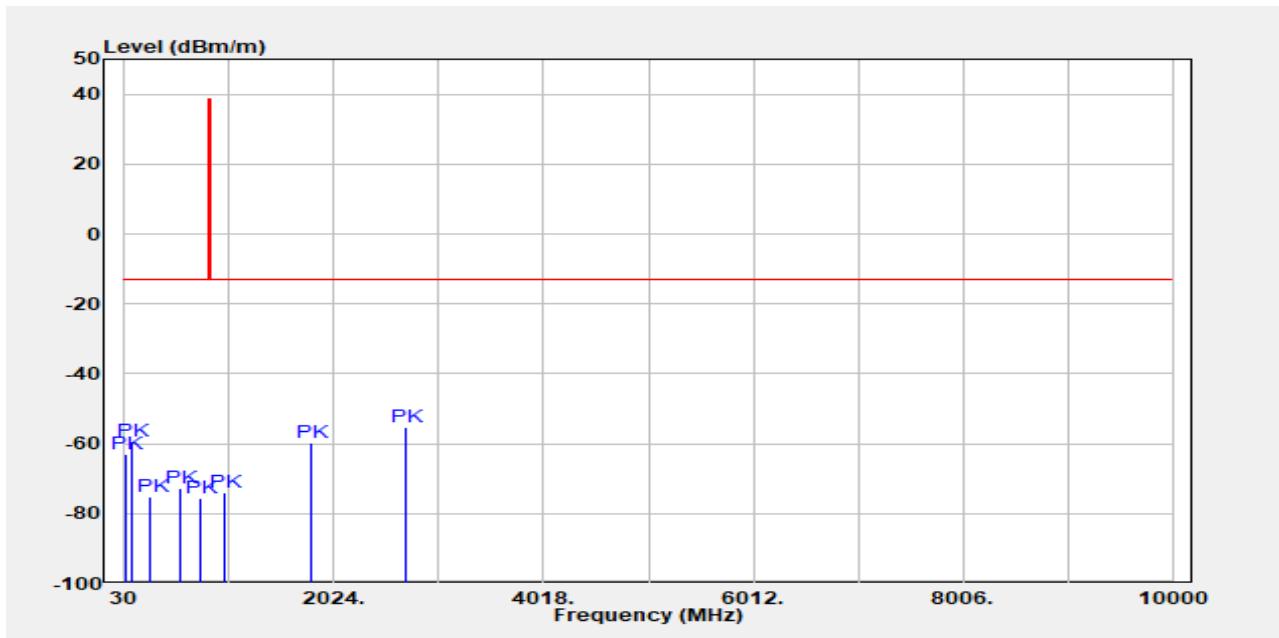
t (886-2) 2299-3279

f (886-2) 2298-0488

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Report Number :TERF2505001834ER Test Site :SAC 1
Operation Mode :LTE B106 Test Date :2025-06-05
Test Mode :Tx Temp./Humi. :24.0°C/55%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :899 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-62.86	-49.01	-12.61	-1.24	-13.00	-49.86
102.75	-59.30	-56.27	-1.18	-1.85	-13.00	-46.30
280.26	-75.37	-76.03	3.72	-3.06	-13.00	-62.37
559.62	-72.85	-72.98	4.44	-4.32	-13.00	-59.85
742.95	-75.51	-74.09	3.54	-4.96	-13.00	-62.51
973.81	-73.97	-71.53	3.25	-5.69	-13.00	-60.97
1798.00	-59.59	-61.88	10.08	-7.80	-13.00	-46.59
2697.00	-55.48	-56.53	10.70	-9.64	-13.00	-42.48

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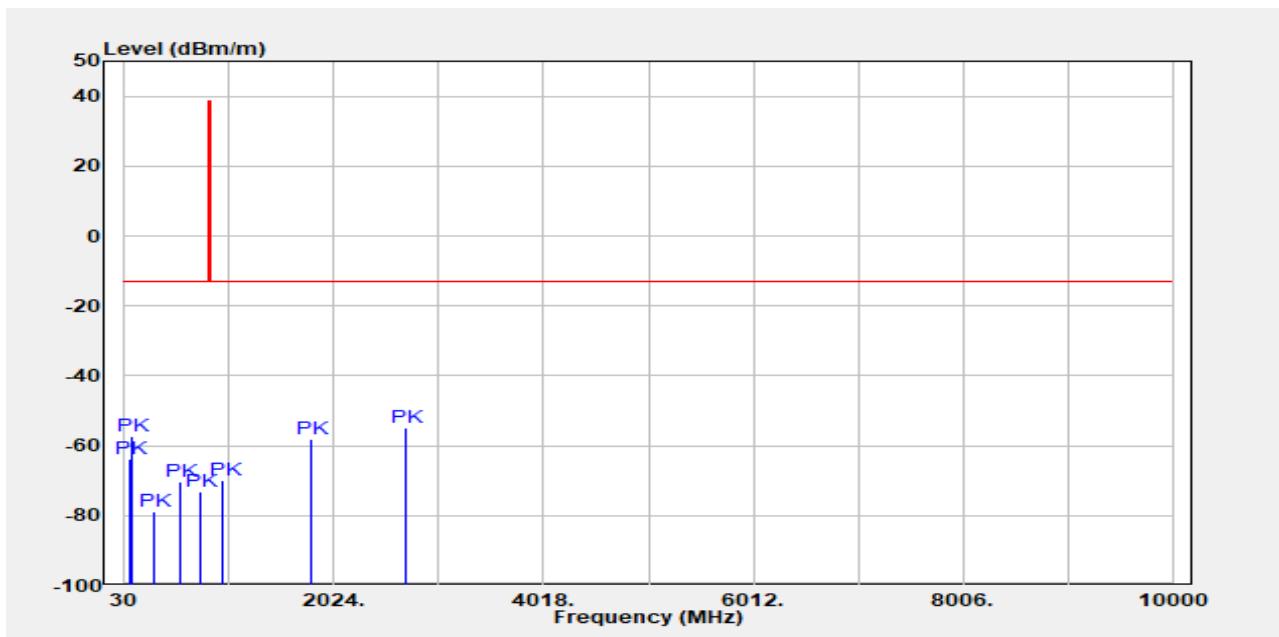
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Report Number :TERF2505001834ER Test Site :SAC 1
 Operation Mode :LTE B106 Test Date :2025-06-05
 Test Mode :Tx Temp./Humi. :24.0°C/55%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :899.8 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-64.00	-58.80	-3.58	-1.62	-13.00	-51.00
104.69	-57.20	-53.77	-1.56	-1.87	-13.00	-44.20
310.33	-79.02	-79.62	3.81	-3.21	-13.00	-66.02
558.65	-70.25	-70.39	4.45	-4.31	-13.00	-57.25
750.71	-73.25	-71.84	3.57	-4.98	-13.00	-60.25
970.90	-69.90	-67.45	3.23	-5.68	-13.00	-56.90
1799.60	-58.20	-60.50	10.10	-7.80	-13.00	-45.20
2699.40	-55.00	-56.06	10.70	-9.65	-13.00	-42.00

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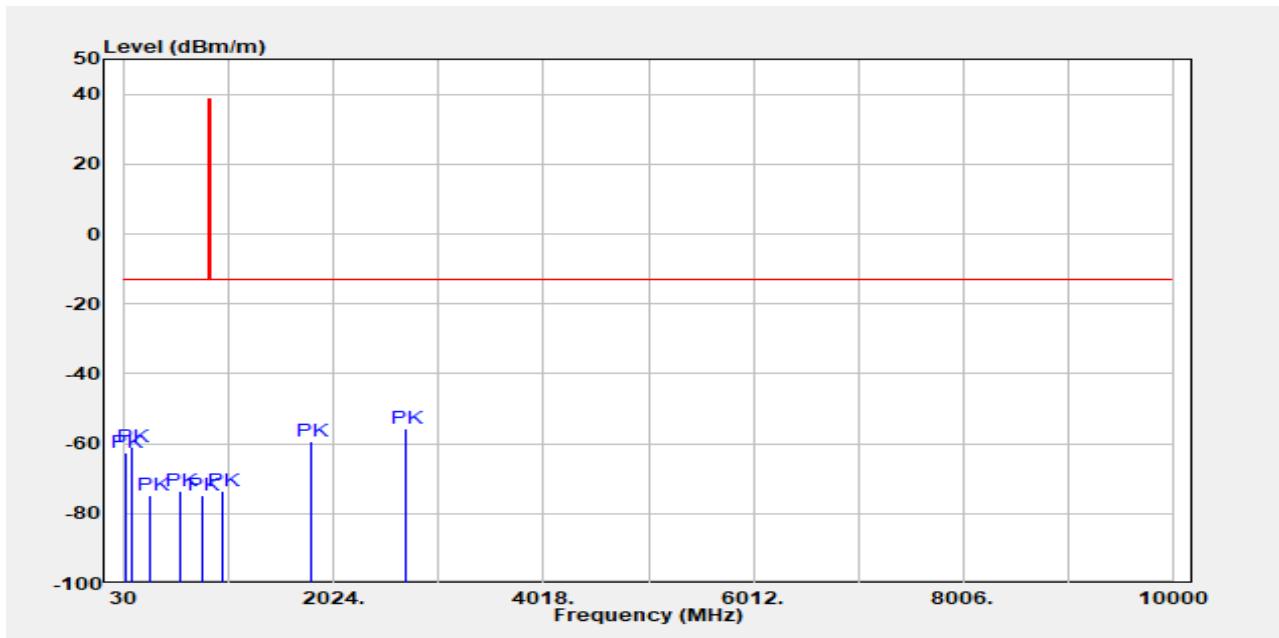
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f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2505001834ER Test Site :SAC 1
 Operation Mode :LTE B106 Test Date :2025-06-05
 Test Mode :Tx Temp./Humi. :24.0°C/55%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :899.8 MHz Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-62.68	-48.90	-12.56	-1.22	-13.00	-49.68
102.75	-61.07	-58.03	-1.18	-1.85	-13.00	-48.07
280.26	-74.74	-75.40	3.72	-3.06	-13.00	-61.74
551.86	-73.62	-73.88	4.55	-4.29	-13.00	-60.62
762.35	-74.91	-73.37	3.48	-5.02	-13.00	-61.91
963.14	-73.72	-71.32	3.26	-5.66	-13.00	-60.72
1799.60	-59.38	-61.68	10.10	-7.80	-13.00	-46.38
2699.40	-55.70	-56.75	10.70	-9.65	-13.00	-42.70

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6 FREQUENCY STABILITY MEASUREMENT

Note: The module's voltage is 3.3V dc.

Reference Freq.:	LTE B106 Mid		899.0000	MHz 3M QPSK CH 134322
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
Freq. ERROR vs. VOLTAGE				
3.795	20	899.000004	0.0041	+/- 2.5 ppm
3.3	20	899.000011	0.0121	
2.805	20	899.000003	0.0028	
2.4 (End Point)	20	898.999999	-0.0014	
Freq. ERROR vs. Temp.				
3.3	-30	898.999999	-0.0014	+/- 2.5 ppm
3.3	-20	899.000008	0.0086	
3.3	-10	898.999997	-0.0037	
3.3	0	898.999998	-0.0022	
3.3	10	899.000007	0.0077	
3.3	20	899.000003	0.0029	
3.3	30	899.000009	0.0098	
3.3	40	898.999999	-0.0010	
3.3	50	899.000009	0.0105	

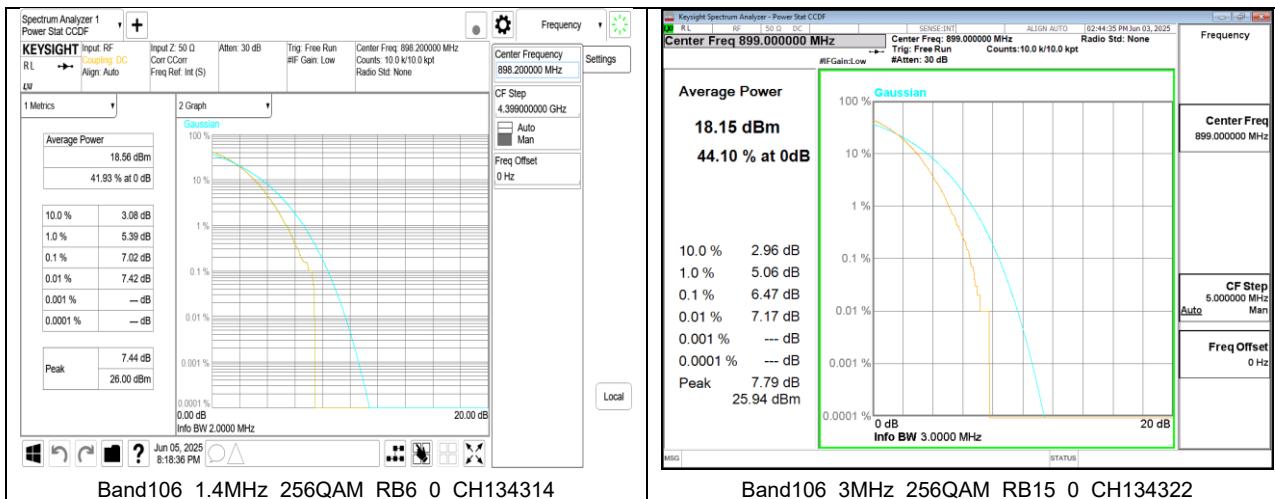
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7 PEAK TO AVERAGE RATIO

LTE BAND 106							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
898.2	134314	7.02	13	899.0	134322	6.47	13
899.0	134322	6.61	13				
899.8	134330	6.26	13				



~ End of Report ~

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