

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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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

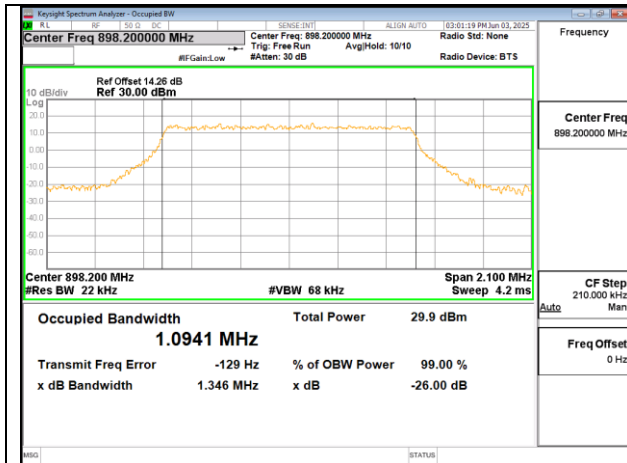
f (886-2) 2298-0488

www.sgs.com.tw

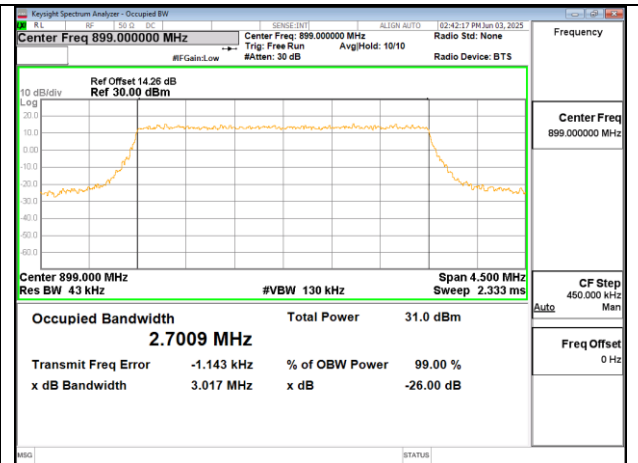
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2 OCCUPIED BANDWIDTH MEASUREMENT

LTE BAND 106 Channel bandwidth: 1.4MHz										LTE BAND 106 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)				Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM			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	2.7009	2.6927	2.6953	2.6978	3.017	3.039	3.014	3.027
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										



Band106 1.4MHz 16QAM RB6_0_CH134314



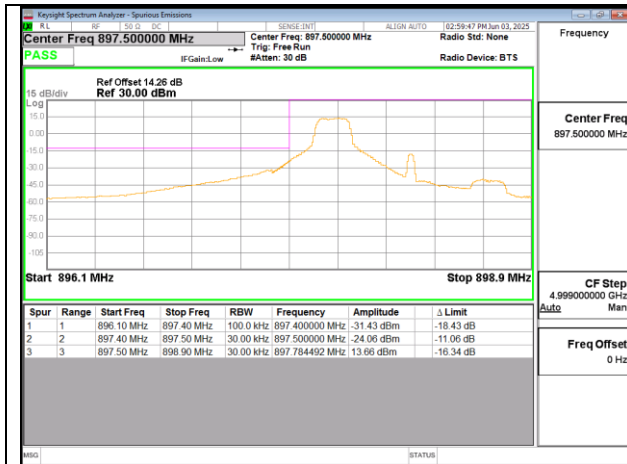
Band106 3MHz QPSK RB15_0_CH134322

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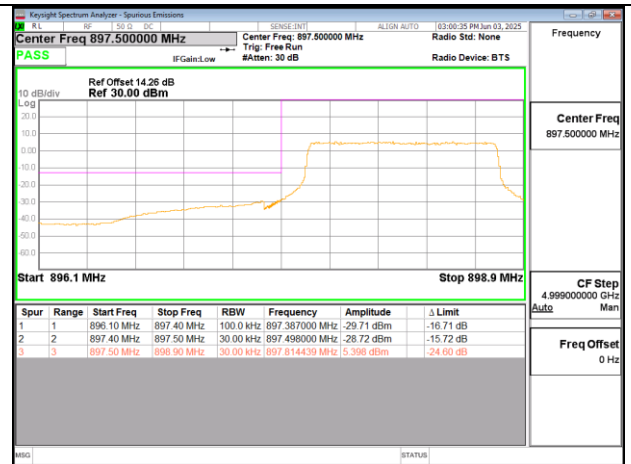
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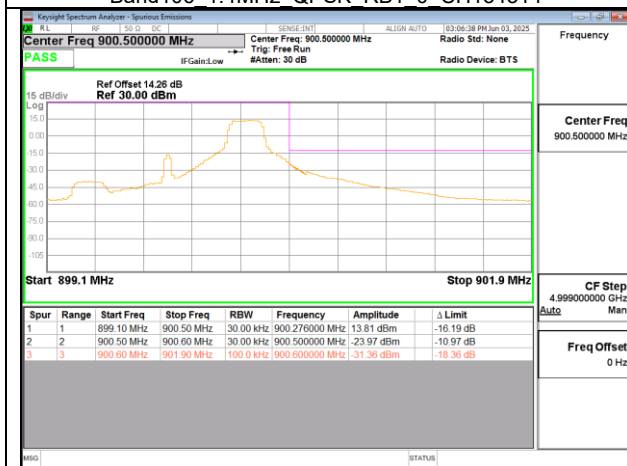
3 OUT OF BAND EMISSION AT ANTENNA TERMINALS



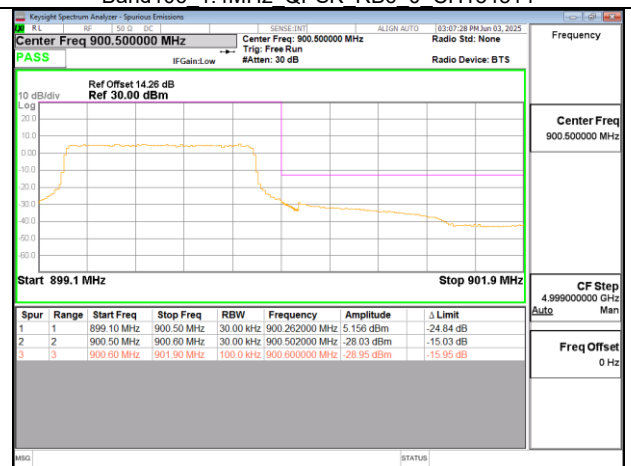
Band106 1.4MHz QPSK RB1 0 CH134314



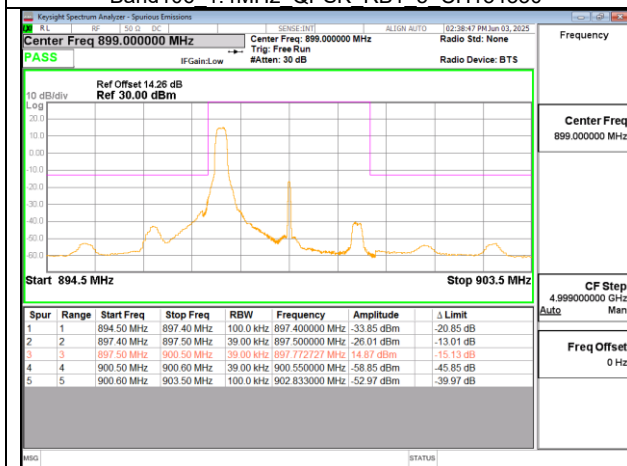
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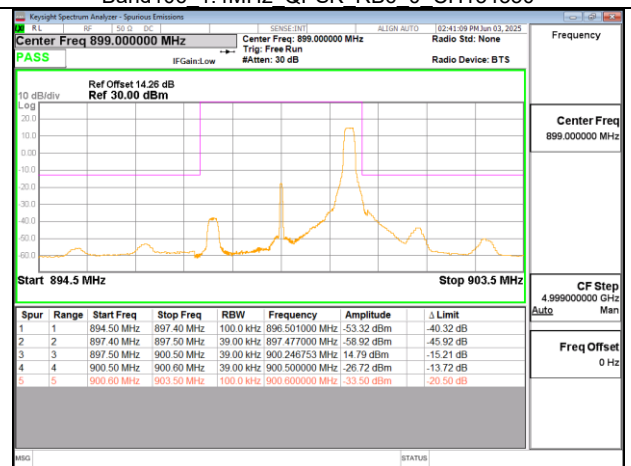
Band106 1.4MHz QPSK RB1 5 CH134330



Band106 1.4MHz QPSK RB6 0 CH134330



Band106 3MHz QPSK RB1 0 CH134322

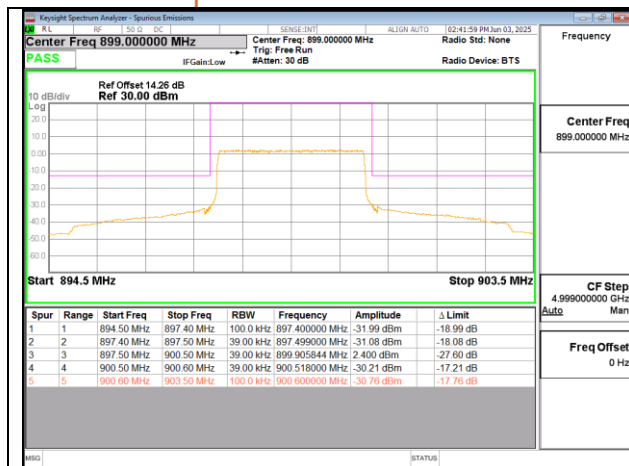


Band106 3MHz QPSK RB1 14 CH134322

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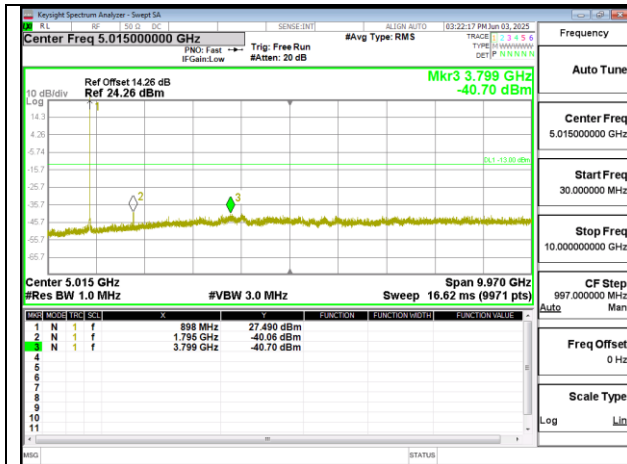


Band106_3MHz_QPSK_RB15_0_CH134322

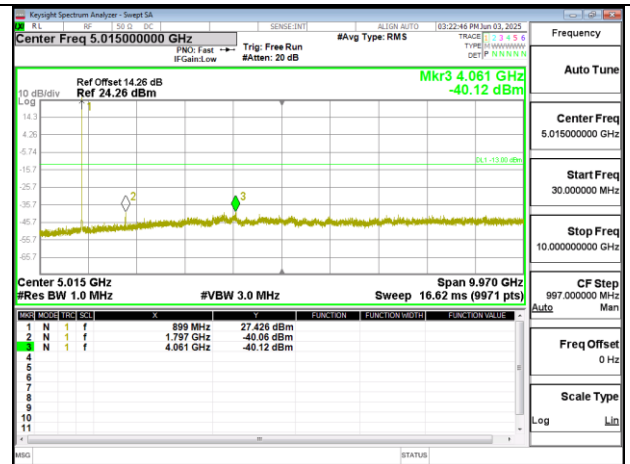
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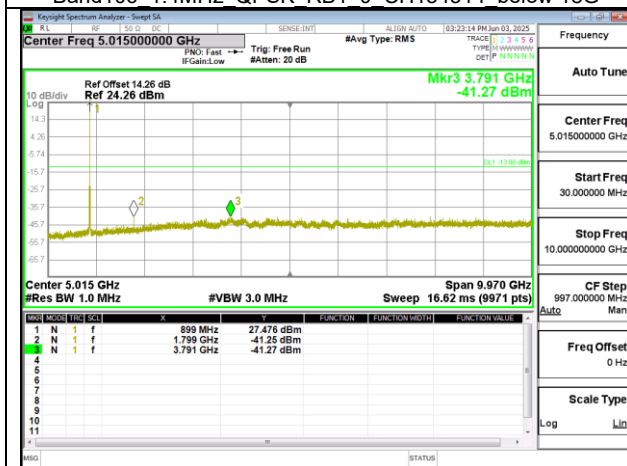
4 SPURIOUS EMISSION AT ANTENNA TERMINALS



Band106 1.4MHz QPSK RB1 0 CH134314 below 18G



Band106 1.4MHz QPSK RB1 0 CH134322 below 18G



Band106 1.4MHz QPSK RB1 0 CH134330 below 18G

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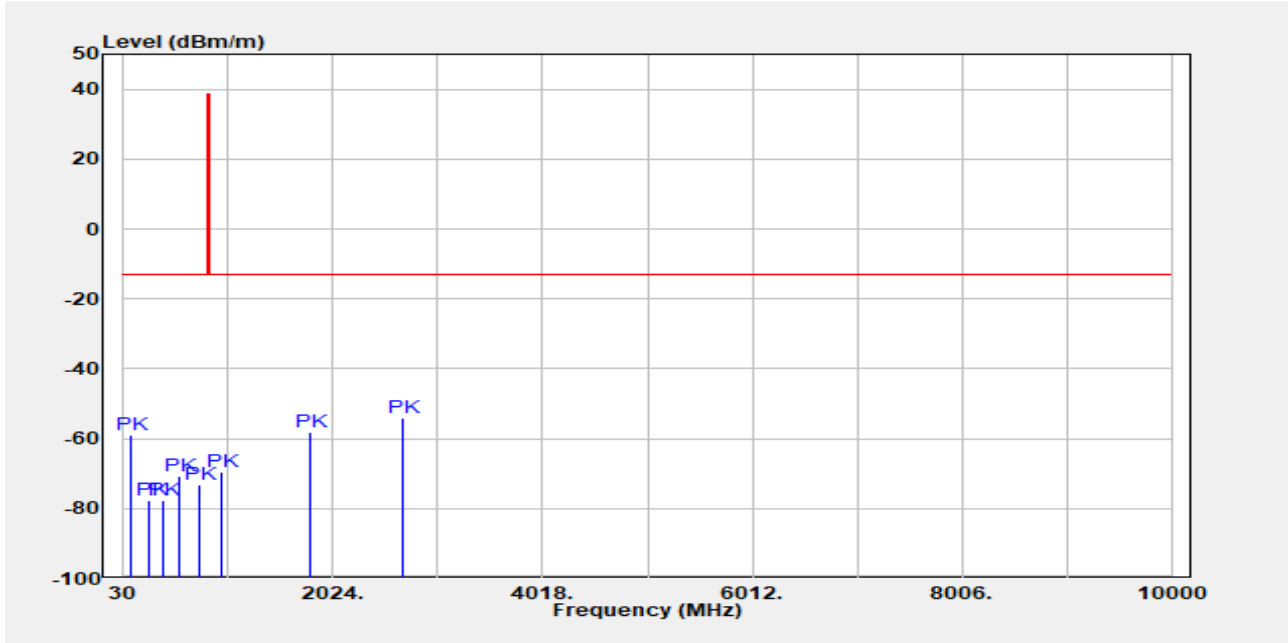


5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

5.1 Spurious Emission

Report Number :TERF2505001834ER
Operation Mode :LTE B106
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :898.2 MHz

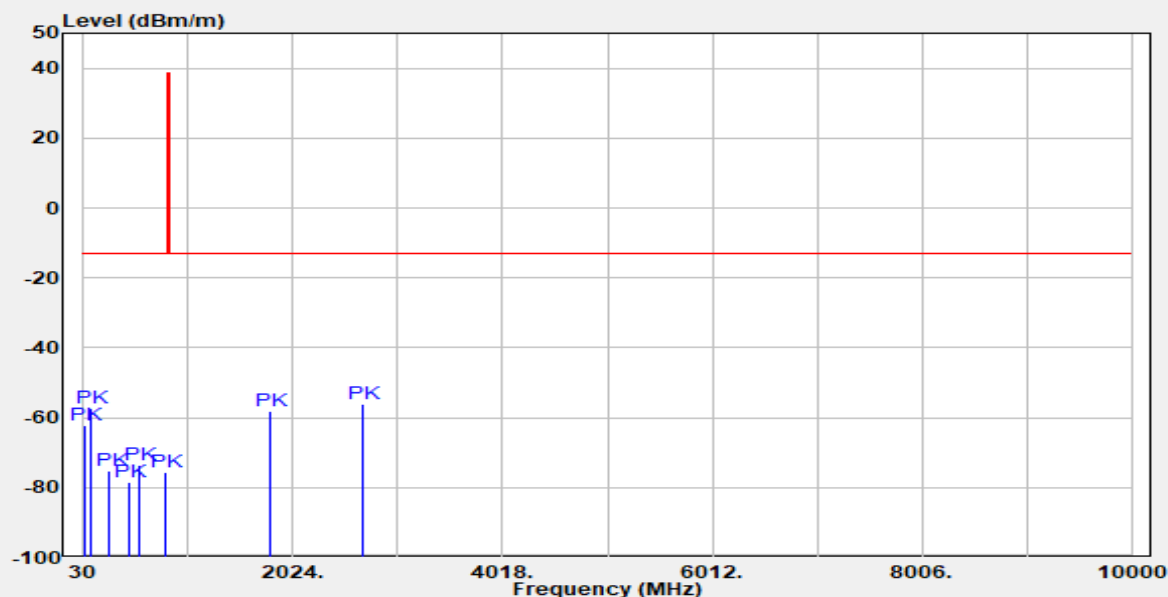
Test Site :SAC 1
Test Date :2025-06-05
Temp./Humi. :24.0°C/55%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin 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

Report Number :TERF2505001834ER
 Operation Mode :LTE B106
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :898.2 MHz

Test Site :SAC 1
 Test Date :2025-06-05
 Temp./Humi. :24.0°C/55%
 Antenna Pol. :Horizontal
 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

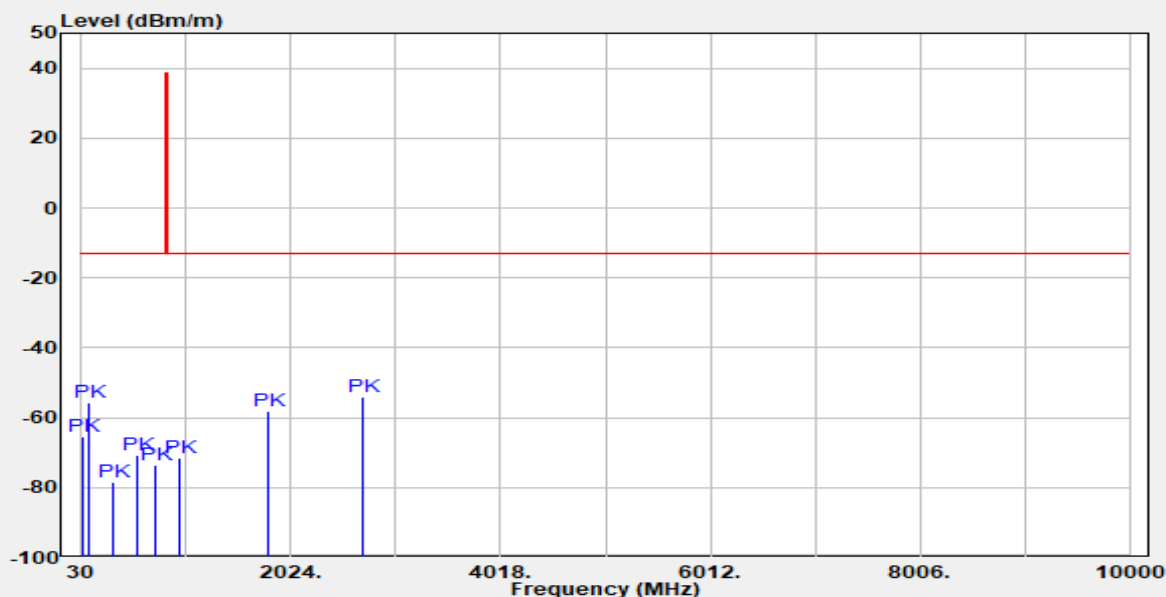
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Report Number :TERF2505001834ER
Operation Mode :LTE B106
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :899 MHz

Test Site :SAC 1
Test Date :2025-06-05
Temp./Humi. :24.0°C/55%
Antenna Pol. :Vertical
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

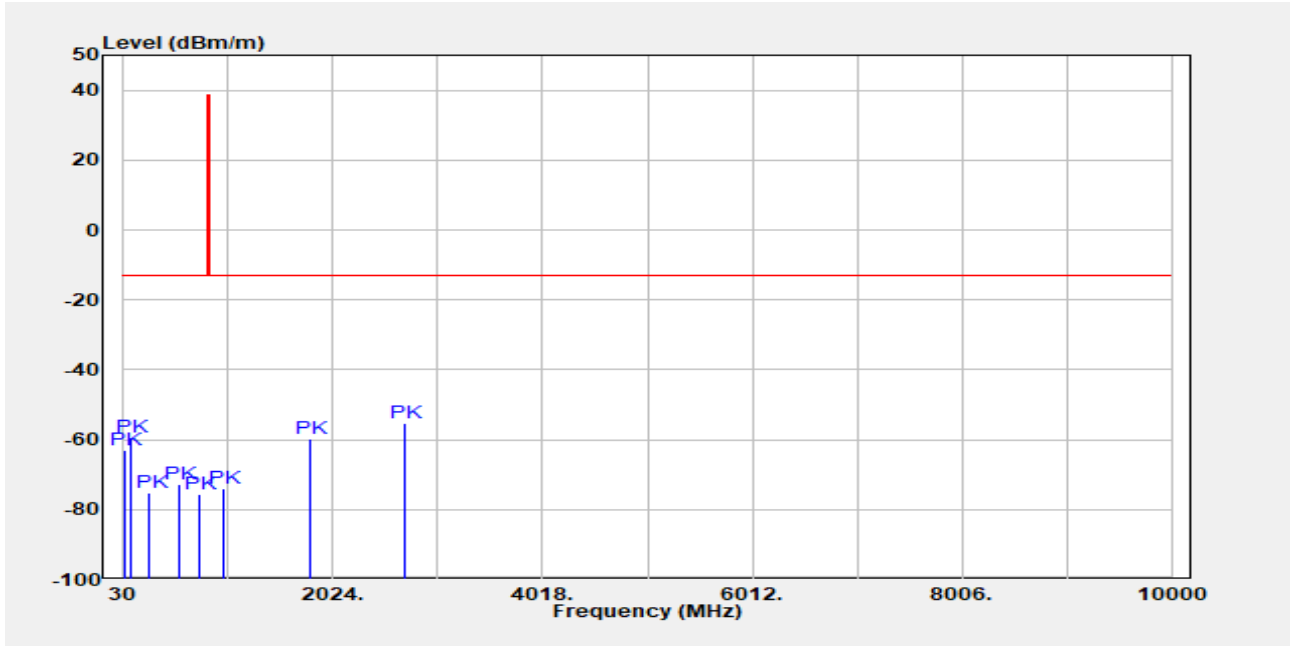
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Report Number :TERF2505001834ER
Operation Mode :LTE B106
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :899 MHz

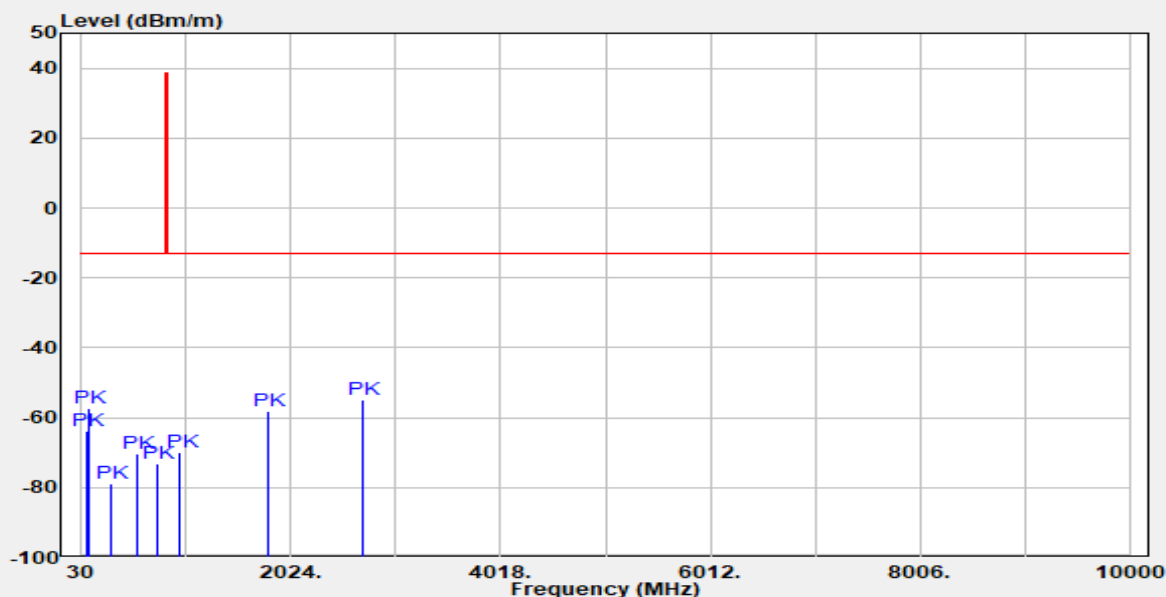
Test Site :SAC 1
Test Date :2025-06-05
Temp./Humi. :24.0°C/55%
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	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

Report Number :TERF2505001834ER
 Operation Mode :LTE B106
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :899.8 MHz

Test Site :SAC 1
 Test Date :2025-06-05
 Temp./Humi. :24.0°C/55%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



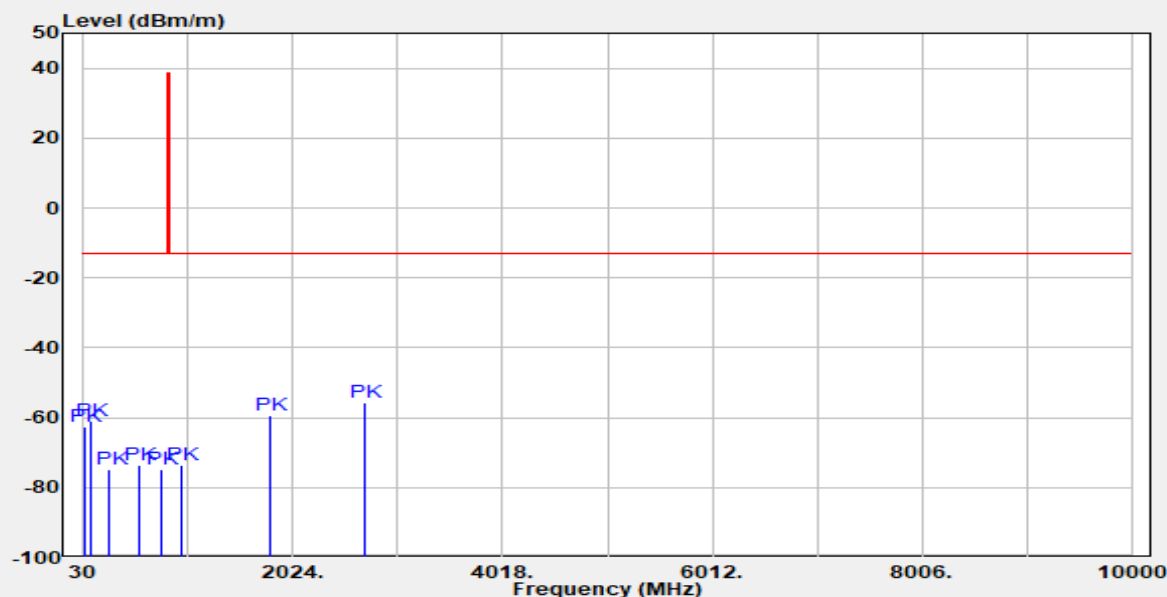
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-64.00	-58.80	-3.58	-1.62	-13.00	-51.00
104.69	-57.20	-53.77	-1.56	-1.87	-13.00	-44.20
310.33	-79.02	-79.62	3.81	-3.21	-13.00	-66.02
558.65	-70.25	-70.39	4.45	-4.31	-13.00	-57.25
750.71	-73.25	-71.84	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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Report Number :TERF2505001834ER
 Operation Mode :LTE B106
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :899.8 MHz

Test Site :SAC 1
 Test Date :2025-06-05
 Temp./Humi. :24.0°C/55%
 Antenna Pol. :Horizontal
 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.

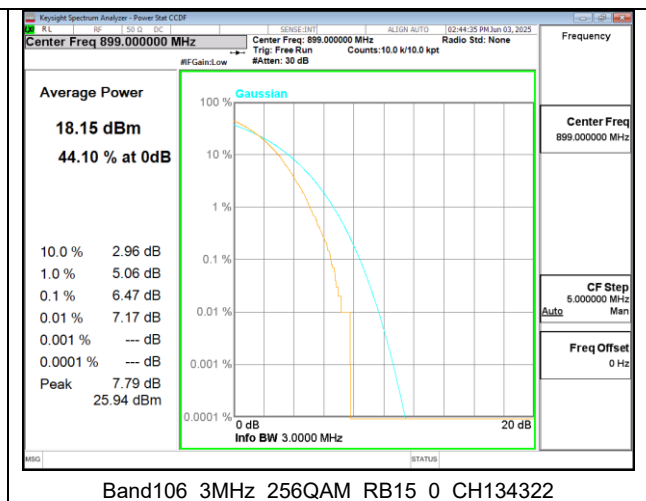
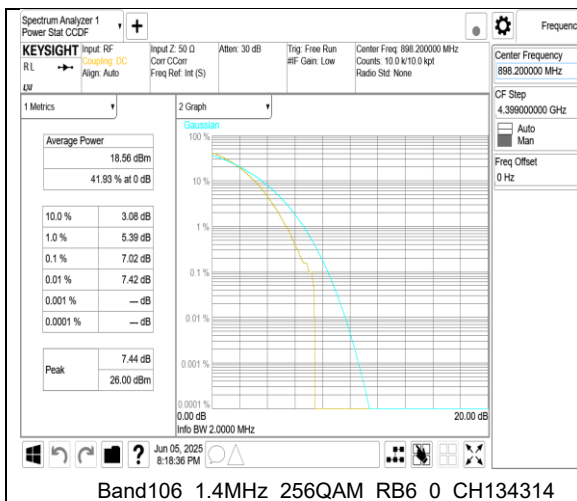
Reference Freq.:	LTE B106 Mid		899.0000	MHz 3M QPSK CH 134322
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
Freq. ERROR vs. VOLTAGE				
3.795	20	899.000004	0.0041	+/- 2.5 ppm
3.3	20	899.000011	0.0121	
2.805	20	899.000003	0.0028	
2.4	20	898.999999	-0.0014	
(End Point)				
Freq. ERROR 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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