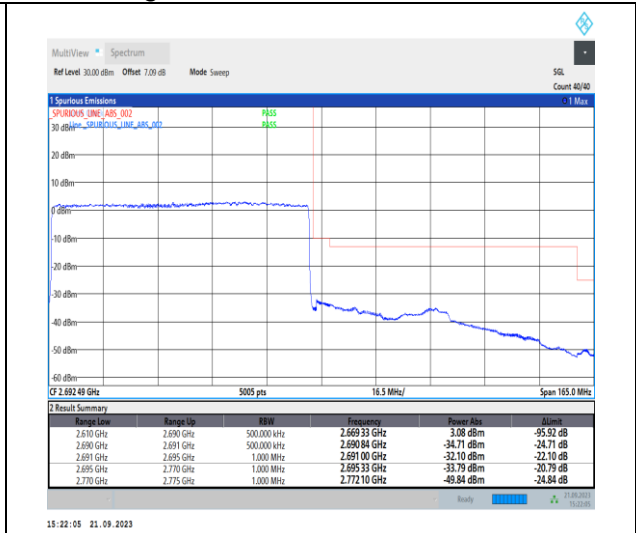
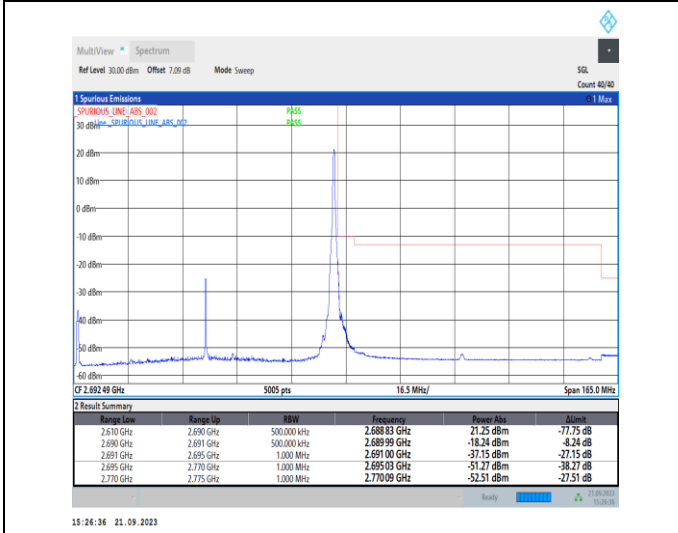


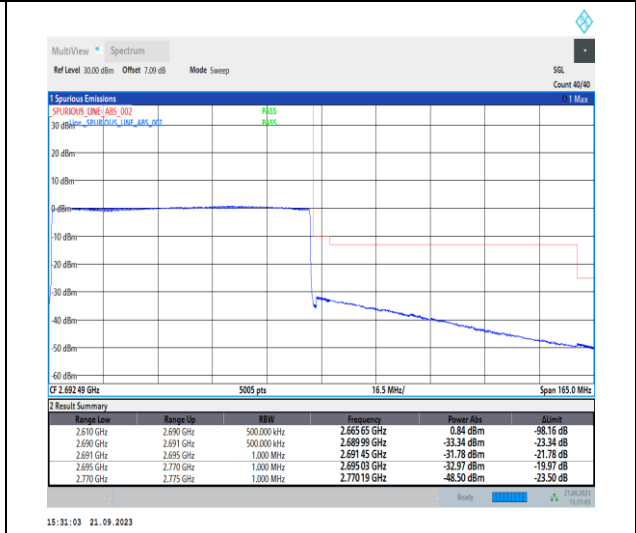
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1-N41-PC2-30-80-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant11-1--PASS-see graph



1-N41-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1@216-Ant11-1--PASS-see graph



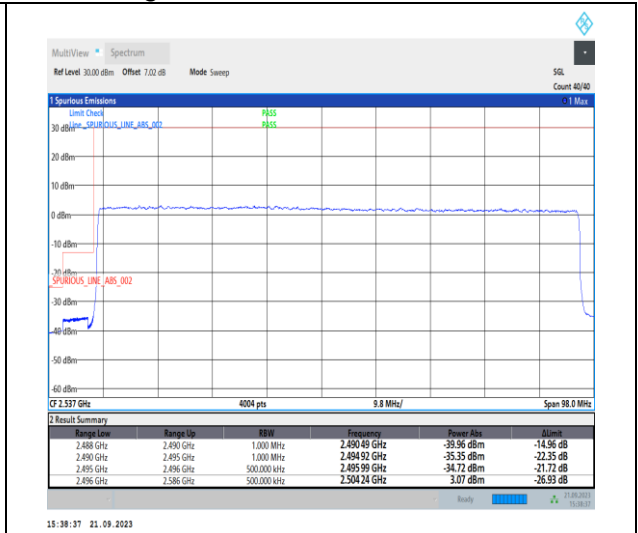
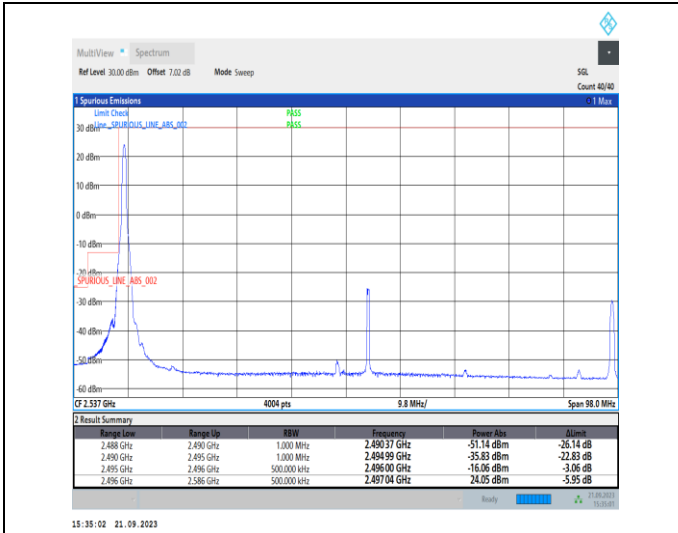
1-N41-PC2-30-80-H-6-CP-QPSK-Outer_Full-216@0-Ant11-1--PASS-see graph



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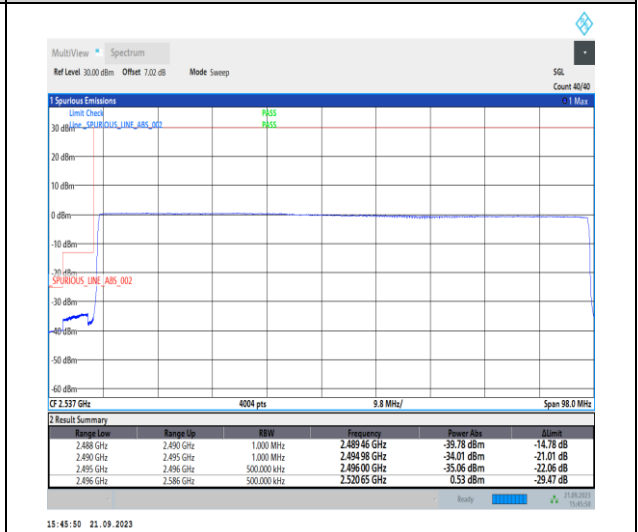
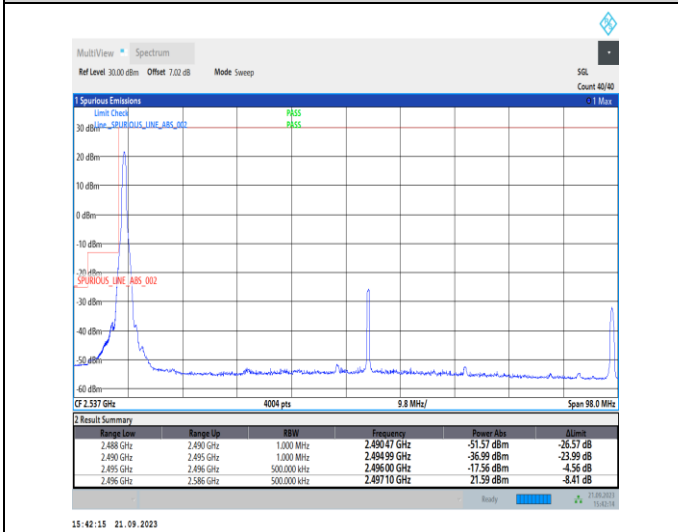
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1-N41-PC2-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant11-1--PASS-see graph

1-N41-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant11-1--PASS-see graph



1-N41-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant11-1--PASS-see graph

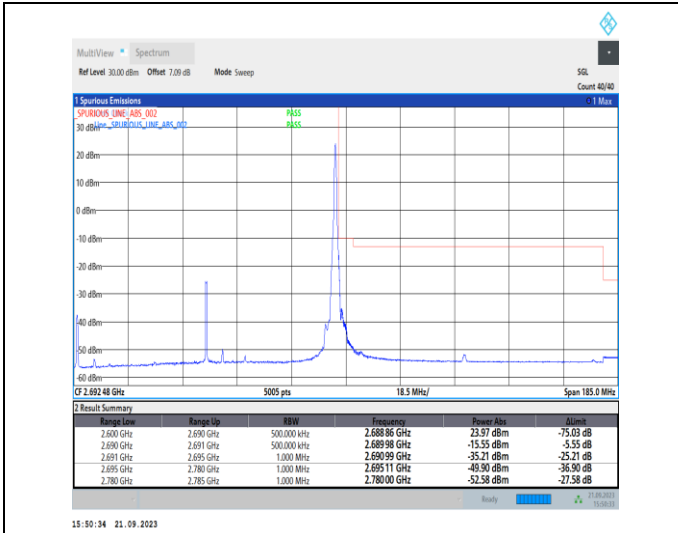
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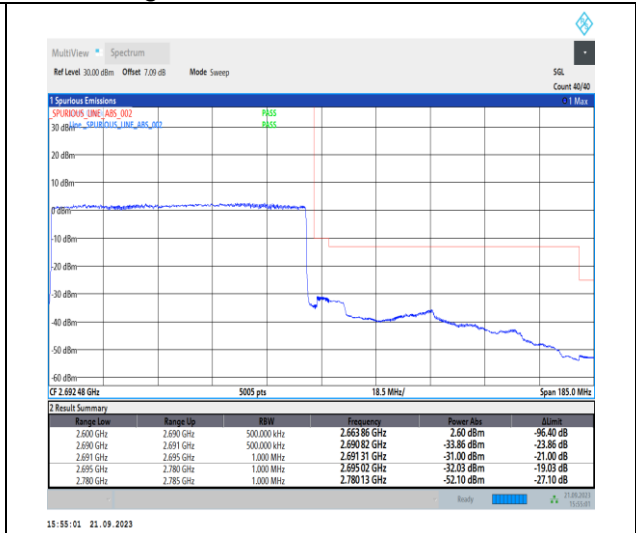
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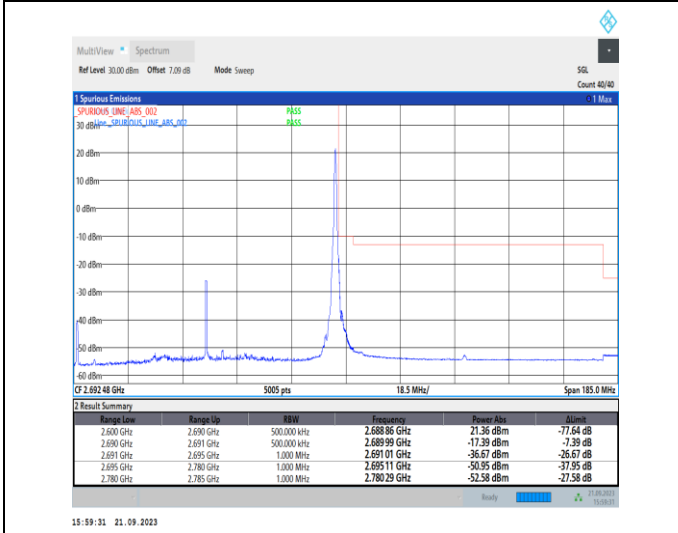
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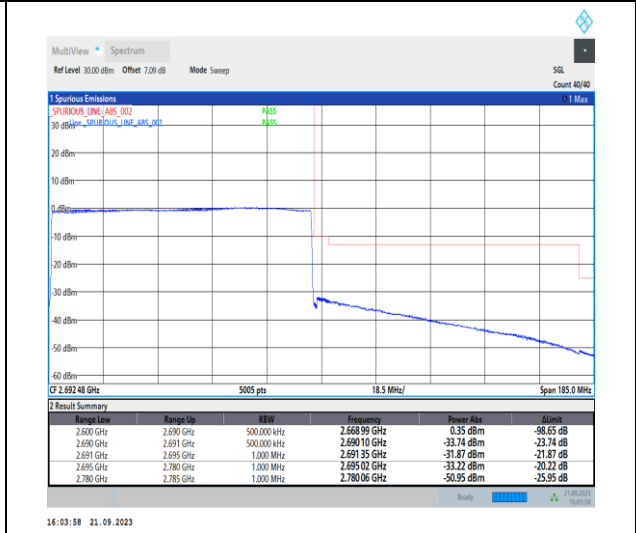
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1-N41-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant11-1--PASS-see graph



1-N41-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant11-1--PASS-see graph

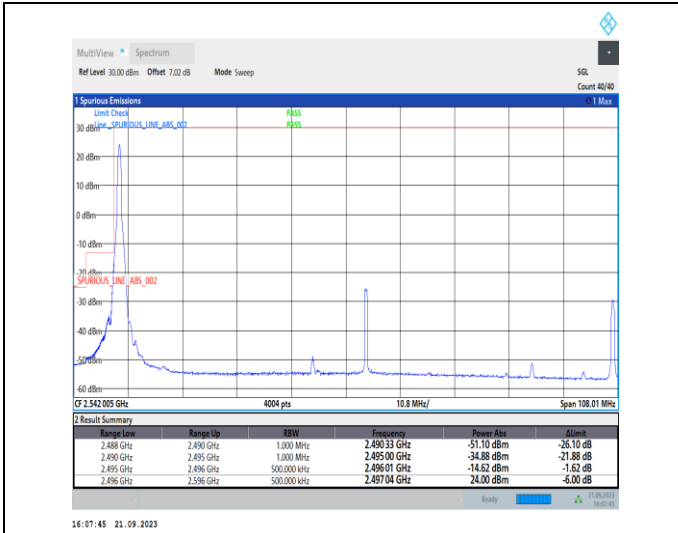


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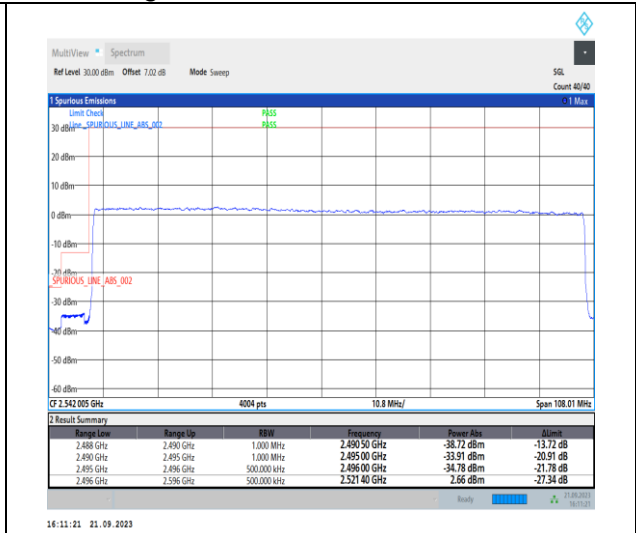


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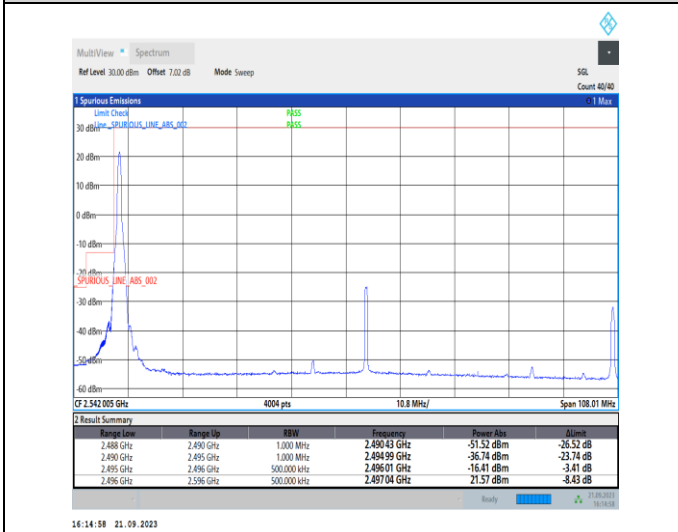
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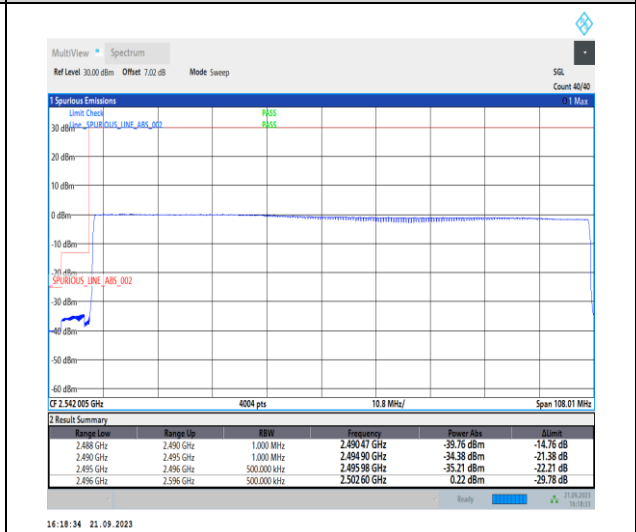
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1-N41-PC2-30-100-L-3-DFT-PI2BPSK-Outer_Full-270@0-Ant11-1--PASS-see graph



1-N41-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant11-1--PASS-see graph



1-N41-PC2-30-100-L-6-CP-QPSK-Outer_Full-273@0-Ant11-1--PASS-see graph

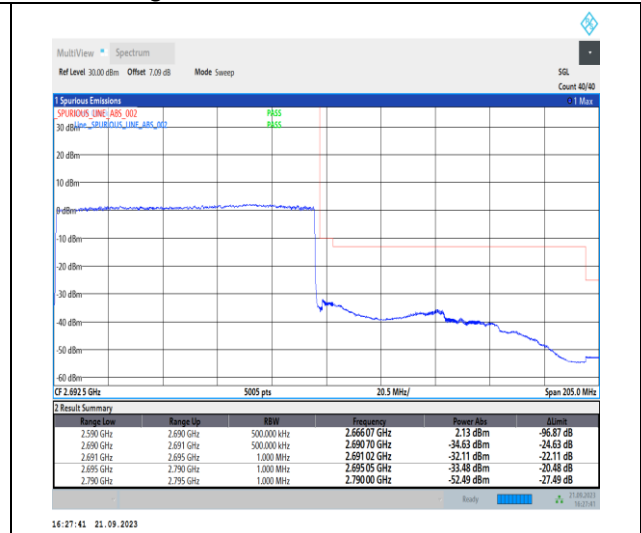
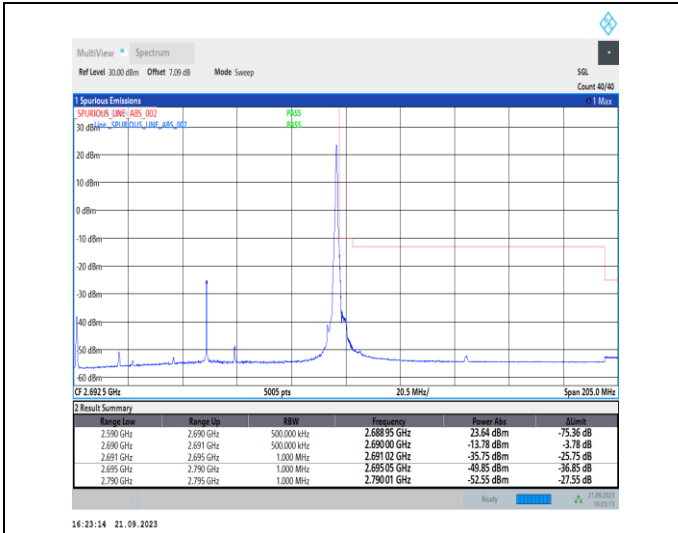


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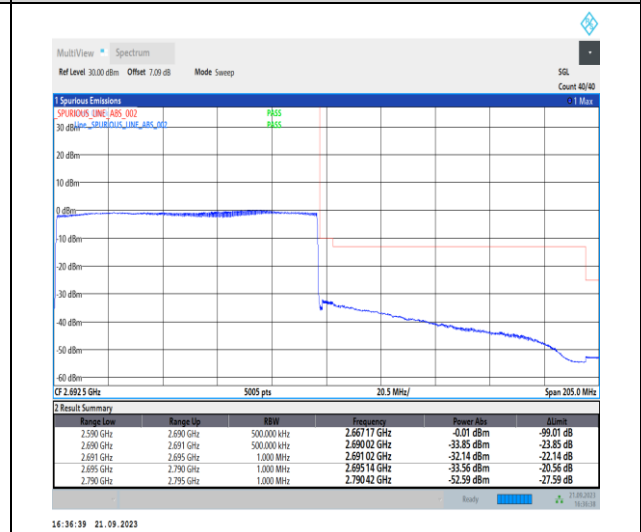
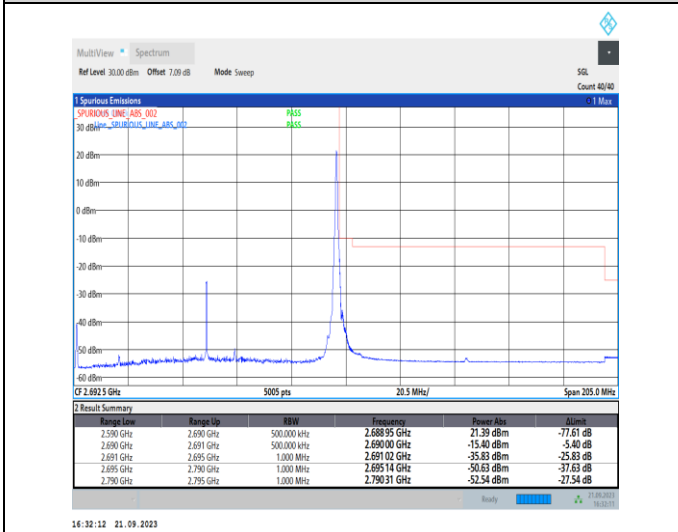
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1-N41-PC2-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Rig ht-1@272-Ant11-1--PASS-see graph

1-N41-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant11-1--PASS-see graph



1-N41-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1 @272-Ant11-1--PASS-see graph

1-N41-PC2-30-100-H-6-CP-QPSK-Outer_Full-273 @0-Ant11-1--PASS-see graph



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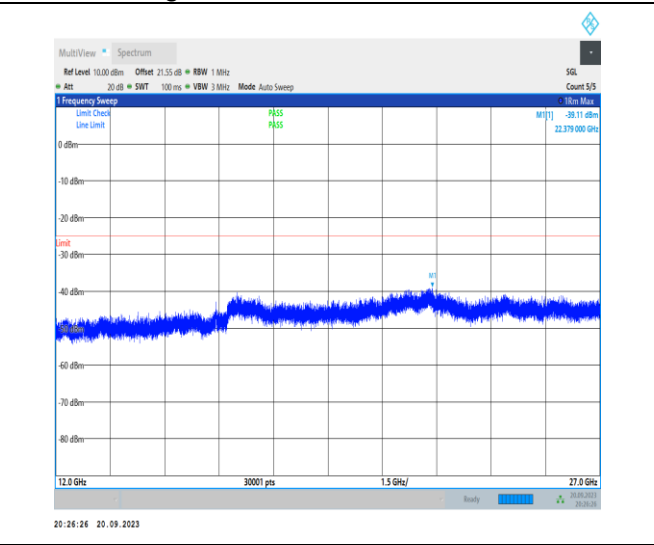
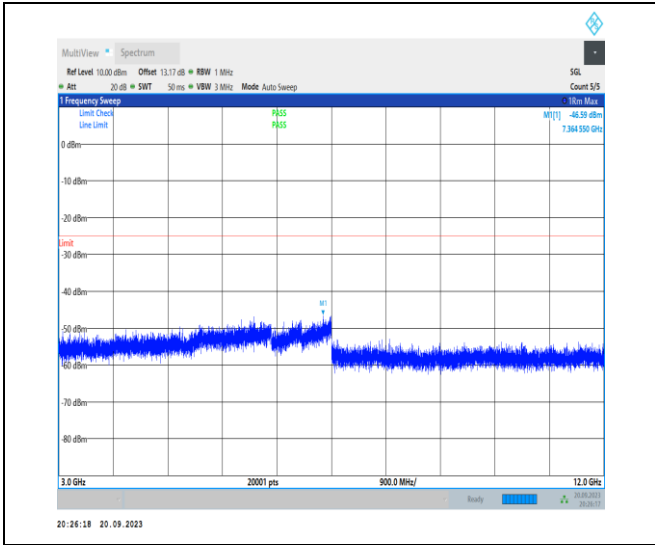
Test Graphs



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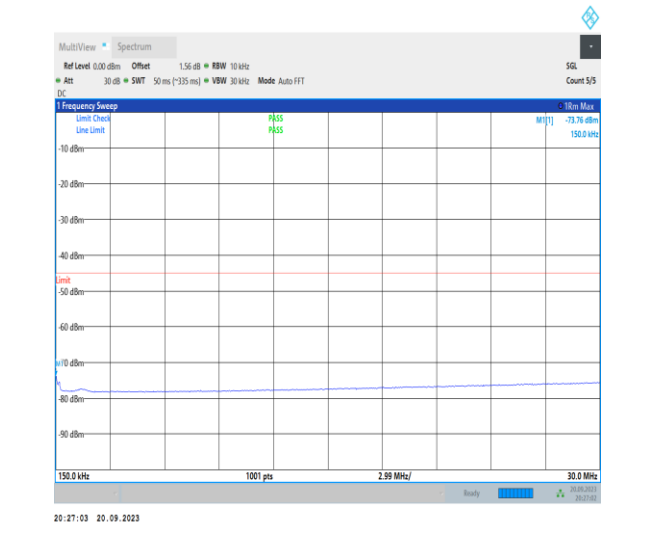
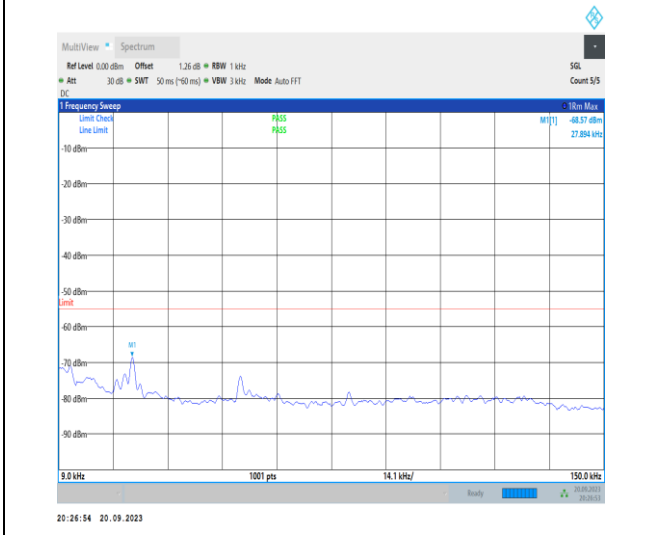
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1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1
@ 1-3000-12000-Ant11-7364.55--46.59--25-PASS

1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1
@ 1-12000-27000-Ant11-22379.00--39.11--25-PASS



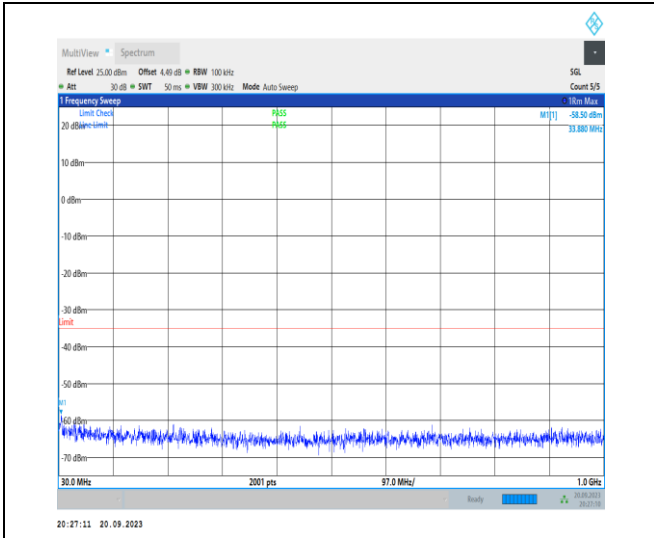
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@ 1-0.009-0.15-Ant11-0.028--68.57--55-PASS

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@ 1-0.15-30-Ant11-0.15--73.76--45-PASS

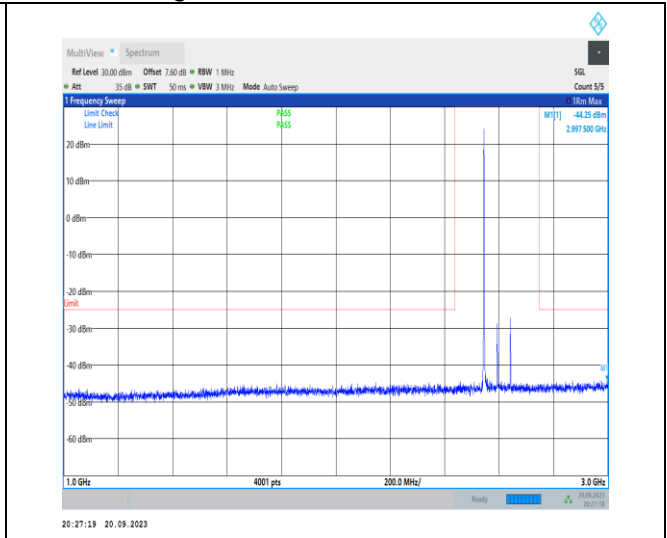


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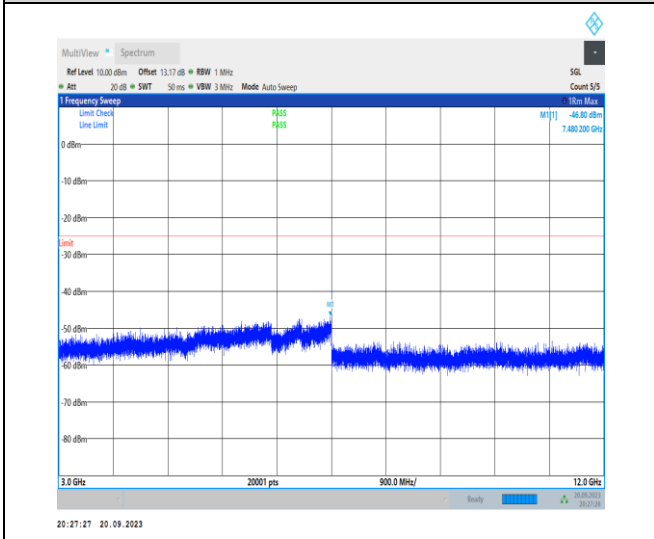
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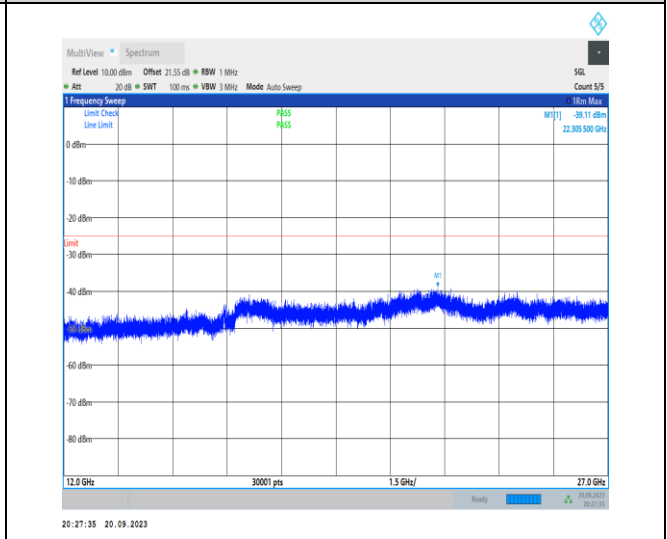
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@ 1-1000-3000-Ant11-2997.50--44.25--25-PASS



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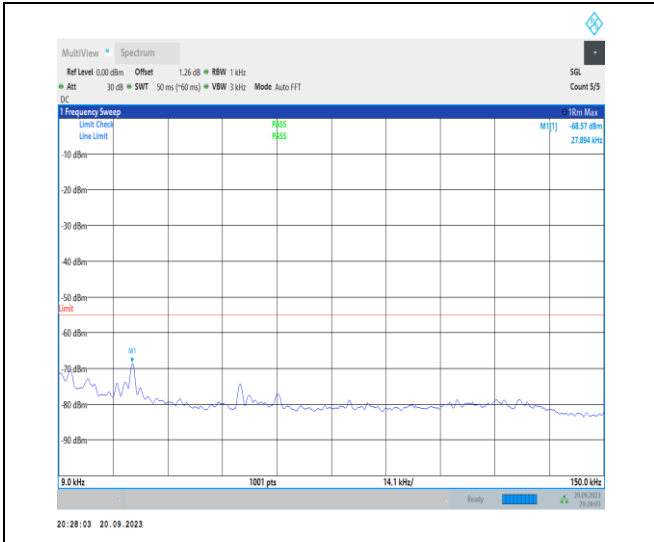


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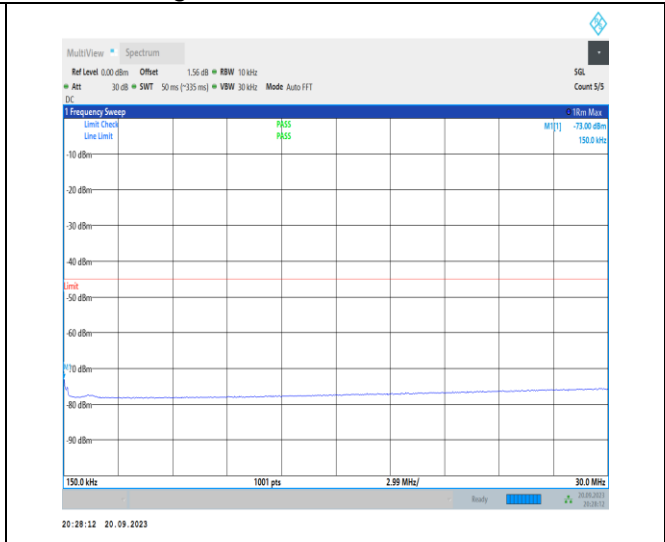


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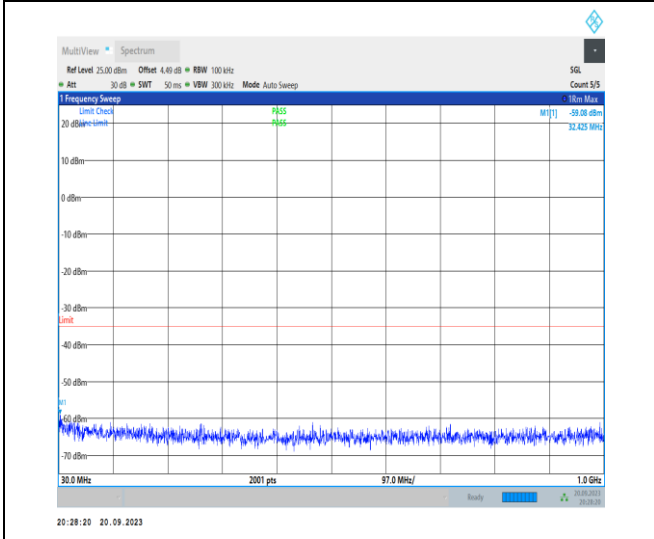
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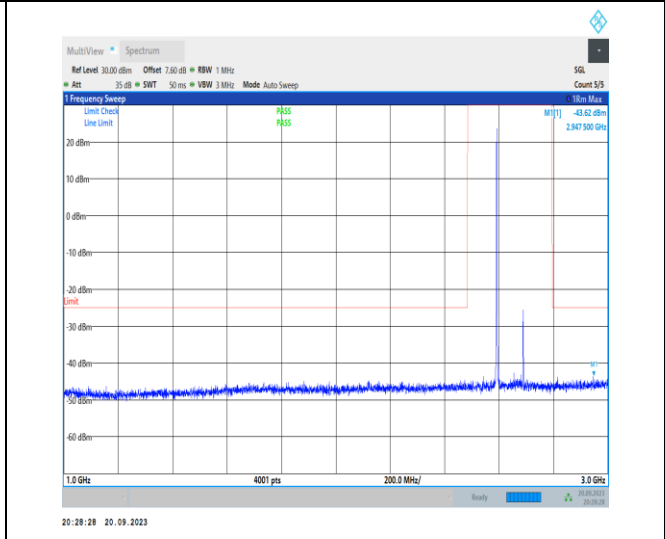
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1-N41-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
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1-N41-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant11-32.43--59.08--35-PASS



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@1-1000-3000-Ant11-2947.5.00--43.62--25-PASS

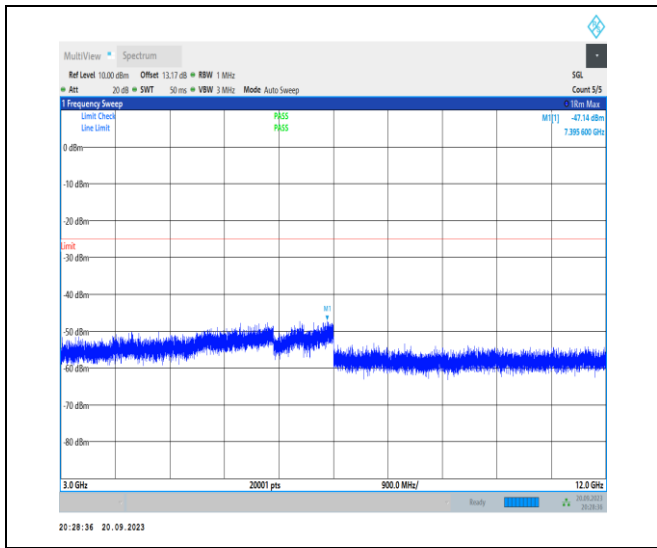


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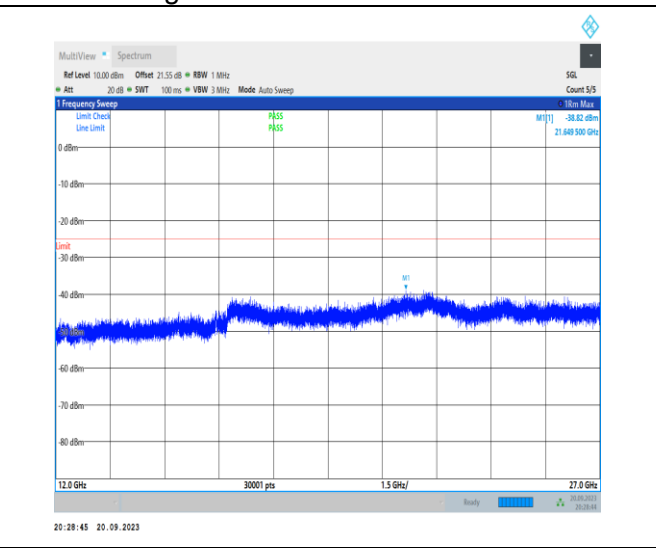
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1-N41-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
 @1-3000-12000-Ant11-7395.6.00--47.14--25-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
 @1-12000-27000-Ant11-21649.50--38.82--25-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band41_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4452	42.70	-45.76	30.18	-68.14	-25.00	43.14	Horizontal
2	5419	41.71	-45.29	32.41	-66.43	-25.00	41.43	Horizontal
3	6329	40.67	-44.50	33.75	-65.34	-25.00	40.34	Horizontal
4	7593	38.95	-42.94	36.64	-62.62	-25.00	37.62	Horizontal
5	10058	32.64	-39.17	38.23	-63.56	-25.00	38.56	Horizontal
6	12818	27.96	-36.88	39.05	-65.14	-25.00	40.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4108.5	42.63	-45.76	29.36	-69.03	-25.00	44.03	Vertical
2	5554	41.52	-45.15	32.61	-66.28	-25.00	41.28	Vertical
3	7014.5	40.66	-43.65	35.24	-63.01	-25.00	38.01	Vertical
4	9097	35.39	-40.37	36.48	-63.76	-25.00	38.76	Vertical
5	11452.5	28.85	-37.34	38.75	-65.00	-25.00	40.00	Vertical
6	13851.5	27.59	-35.91	40.63	-62.95	-25.00	37.95	Vertical



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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = SA Band41_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4102.5	42.97	-45.76	29.35	-68.70	-25.00	43.70	Horizontal
2	4889.5	43.22	-45.53	31.16	-66.41	-25.00	41.41	Horizontal
3	7138	40.44	-43.91	35.59	-63.14	-25.00	38.14	Horizontal
4	8425	37.82	-41.49	36.59	-62.35	-25.00	37.35	Horizontal
5	12216	28.00	-37.48	38.86	-65.87	-25.00	40.87	Horizontal
6	14450.5	26.71	-34.82	41.08	-62.29	-25.00	37.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3656	42.72	-45.78	28.76	-69.56	-25.00	44.56	Vertical
2	4590.5	42.65	-45.67	30.50	-67.78	-25.00	42.78	Vertical
3	5697	41.07	-44.86	32.64	-66.41	-25.00	41.41	Vertical
4	6996	40.58	-43.57	35.19	-63.06	-25.00	38.06	Vertical
5	9650	33.70	-39.56	37.54	-63.58	-25.00	38.58	Vertical
6	12212	28.06	-37.48	38.86	-65.82	-25.00	40.82	Vertical



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Test Band = SA Band41_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3961.5	43.46	-46.13	29.06	-68.87	-25.00	43.87	Horizontal
2	5466	42.12	-45.26	32.52	-65.88	-25.00	40.88	Horizontal
3	6438	41.33	-44.49	34.10	-64.31	-25.00	39.31	Horizontal
4	7544	39.65	-43.05	36.62	-62.04	-25.00	37.04	Horizontal
5	10097	32.50	-39.12	38.25	-63.64	-25.00	38.64	Horizontal
6	12718	27.45	-36.71	39.02	-65.50	-25.00	40.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4238	42.31	-45.68	29.67	-68.96	-25.00	43.96	Vertical
2	5221	41.25	-45.24	31.93	-67.32	-25.00	42.32	Vertical
3	6683	40.80	-43.90	34.63	-63.73	-25.00	38.73	Vertical
4	7782	38.27	-42.46	36.71	-62.73	-25.00	37.73	Vertical
5	11147.5	30.35	-37.69	38.71	-63.89	-25.00	38.89	Vertical
6	12791	27.81	-36.82	39.04	-65.23	-25.00	40.23	Vertical



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Test Band = NSA 2A-N41A_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2000	40.81	-45.63	31.41	-68.68	-25.00	43.68	Horizontal
2	7503.3000	37.86	-43.13	36.60	-63.93	-25.00	38.93	Horizontal
3	10004.4000	31.34	-39.23	38.20	-64.95	-25.00	39.95	Horizontal
4	12505.5000	24.71	-36.99	38.95	-68.59	-25.00	43.59	Horizontal
5	15006.6000	23.49	-34.65	41.29	-65.14	-25.00	40.14	Horizontal
6	17507.7000	25.57	-34.95	44.59	-60.05	-25.00	35.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2000	41.32	-45.63	31.41	-68.17	-25.00	43.17	Vertical
2	7503.3000	38.39	-43.13	36.60	-63.40	-25.00	38.40	Vertical
3	10004.4000	30.85	-39.23	38.20	-65.44	-25.00	40.44	Vertical
4	12505.5000	25.52	-36.99	38.95	-67.78	-25.00	42.78	Vertical
5	15006.6000	22.80	-34.65	41.29	-65.83	-25.00	40.83	Vertical
6	17507.7000	26.64	-34.95	44.59	-58.98	-25.00	33.98	Vertical



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Test Band = NSA 2A-N41A_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.1600	39.91	-45.38	31.63	-69.10	-25.00	44.10	Horizontal
2	7644.2400	37.26	-43.01	36.66	-64.36	-25.00	39.36	Horizontal
3	10192.3200	29.77	-39.47	38.30	-66.67	-25.00	41.67	Horizontal
4	12740.4000	26.10	-36.74	39.02	-66.88	-25.00	41.88	Horizontal
5	15288.4800	24.14	-34.36	40.69	-64.79	-25.00	39.79	Horizontal
6	17836.5600	28.13	-34.59	46.07	-55.65	-25.00	30.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.1600	40.06	-45.38	31.63	-68.95	-25.00	43.95	Vertical
2	7644.2400	38.05	-43.01	36.66	-63.57	-25.00	38.57	Vertical
3	10192.3200	29.85	-39.47	38.30	-66.59	-25.00	41.59	Vertical
4	12740.4000	25.90	-36.74	39.02	-67.08	-25.00	42.08	Vertical
5	15288.4800	25.04	-34.36	40.69	-63.89	-25.00	38.89	Vertical
6	17836.5600	28.03	-34.59	46.07	-55.75	-25.00	30.75	Vertical



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Test Band = NSA 2A-N41A_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3640	43.58	-45.88	28.74	-68.82	-25.00	43.82	Horizontal
2	5190.1800	39.97	-45.29	31.86	-68.72	-25.00	43.72	Horizontal
3	7785.2700	36.84	-42.43	36.71	-64.13	-25.00	39.13	Horizontal
4	10380.3600	29.43	-39.03	38.39	-66.47	-25.00	41.47	Horizontal
5	12975.4500	26.76	-37.28	39.09	-66.68	-25.00	41.68	Horizontal
6	15570.5400	23.27	-35.08	40.10	-66.97	-25.00	41.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3811.5	43.08	-45.96	28.91	-69.23	-25.00	44.23	Vertical
2	5190.1800	40.29	-45.29	31.86	-68.40	-25.00	43.40	Vertical
3	7785.2700	37.85	-42.43	36.71	-63.12	-25.00	38.12	Vertical
4	10380.3600	30.08	-39.03	38.39	-65.82	-25.00	40.82	Vertical
5	12975.4500	26.74	-37.28	39.09	-66.70	-25.00	41.70	Vertical
6	15570.5400	23.47	-35.08	40.10	-66.77	-25.00	41.77	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-10.900000	-0.004204	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-9.400000	-0.003625	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.600000	-0.001388	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	-2.800000	-0.001080	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	-4.600000	-0.001774	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-8.900000	-0.003432	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.300000	-0.001658	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.400000	-0.002083	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-9.300000	-0.003587	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.100000	-0.003124	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.800000	-0.001465	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-10.900000	-0.004204	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-9.100000	-0.003509	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-8.800000	-0.003394	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.200000	-0.000848	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	-9.300000	-0.003587	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	-3.500000	-0.001350	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	-6.900000	-0.002661	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.500000	-0.000578	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	1.600000	0.000617	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-7.300000	-0.002815	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	-5.000000	-0.001928	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	-2.900000	-0.001118	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-6.100000	-0.002352	PASS

---End of Attachment---



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com