

# Appendix B.15

## LTE Band 42(3550-3600)



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band42	5MHz	QPSK	43115	1RB#0	23.60	21.60	23.00	PASS
Band42	5MHz	16QAM	43115	1RB#0	22.89	20.89	23.00	PASS
Band42	5MHz	QPSK	43115	1RB#12	23.53	21.53	23.00	PASS
Band42	5MHz	16QAM	43115	1RB#12	22.76	20.76	23.00	PASS
Band42	5MHz	QPSK	43115	1RB#24	23.48	21.48	23.00	PASS
Band42	5MHz	16QAM	43115	1RB#24	22.83	20.83	23.00	PASS
Band42	5MHz	QPSK	43115	25RB#0	22.70	20.70	23.00	PASS
Band42	5MHz	16QAM	43115	25RB#0	21.57	19.57	23.00	PASS
Band42	5MHz	QPSK	43340	1RB#0	23.43	21.43	23.00	PASS
Band42	5MHz	16QAM	43340	1RB#0	22.69	20.69	23.00	PASS
Band42	5MHz	QPSK	43340	1RB#12	23.58	21.58	23.00	PASS
Band42	5MHz	16QAM	43340	1RB#12	22.70	20.70	23.00	PASS
Band42	5MHz	QPSK	43340	1RB#24	23.37	21.37	23.00	PASS
Band42	5MHz	16QAM	43340	1RB#24	22.69	20.69	23.00	PASS
Band42	5MHz	QPSK	43340	25RB#0	22.47	20.47	23.00	PASS
Band42	5MHz	16QAM	43340	25RB#0	21.72	19.72	23.00	PASS
Band42	5MHz	QPSK	43565	1RB#0	23.41	21.41	23.00	PASS
Band42	5MHz	16QAM	43565	1RB#0	22.47	20.47	23.00	PASS
Band42	5MHz	QPSK	43565	1RB#12	23.24	21.24	23.00	PASS
Band42	5MHz	16QAM	43565	1RB#12	22.51	20.51	23.00	PASS
Band42	5MHz	QPSK	43565	1RB#24	23.26	21.26	23.00	PASS
Band42	5MHz	16QAM	43565	1RB#24	22.56	20.56	23.00	PASS
Band42	5MHz	QPSK	43565	25RB#0	22.46	20.46	23.00	PASS
Band42	5MHz	16QAM	43565	25RB#0	21.39	19.39	23.00	PASS
Band42	10MHz	QPSK	43140	1RB#0	23.64	21.64	23.00	PASS
Band42	10MHz	16QAM	43140	1RB#0	23.05	21.05	23.00	PASS
Band42	10MHz	QPSK	43140	1RB#24	23.70	21.70	23.00	PASS
Band42	10MHz	16QAM	43140	1RB#24	22.82	20.82	23.00	PASS
Band42	10MHz	QPSK	43140	1RB#49	23.51	21.51	23.00	PASS



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Band42	10MHz	16QAM	43140	1RB#49	22.68	20.68	23.00	PASS
Band42	10MHz	QPSK	43140	50RB#0	22.65	20.65	23.00	PASS
Band42	10MHz	16QAM	43140	50RB#0	21.66	19.66	23.00	PASS
Band42	10MHz	QPSK	43340	1RB#0	23.39	21.39	23.00	PASS
Band42	10MHz	16QAM	43340	1RB#0	22.61	20.61	23.00	PASS
Band42	10MHz	QPSK	43340	1RB#24	23.45	21.45	23.00	PASS
Band42	10MHz	16QAM	43340	1RB#24	22.67	20.67	23.00	PASS
Band42	10MHz	QPSK	43340	1RB#49	23.41	21.41	23.00	PASS
Band42	10MHz	16QAM	43340	1RB#49	22.75	20.75	23.00	PASS
Band42	10MHz	QPSK	43340	50RB#0	22.53	20.53	23.00	PASS
Band42	10MHz	16QAM	43340	50RB#0	21.67	19.67	23.00	PASS
Band42	10MHz	QPSK	43540	1RB#0	23.45	21.45	23.00	PASS
Band42	10MHz	16QAM	43540	1RB#0	22.56	20.56	23.00	PASS
Band42	10MHz	QPSK	43540	1RB#24	23.40	21.40	23.00	PASS
Band42	10MHz	16QAM	43540	1RB#24	22.55	20.55	23.00	PASS
Band42	10MHz	QPSK	43540	1RB#49	23.32	21.32	23.00	PASS
Band42	10MHz	16QAM	43540	1RB#49	22.55	20.55	23.00	PASS
Band42	10MHz	QPSK	43540	50RB#0	22.40	20.40	23.00	PASS
Band42	10MHz	16QAM	43540	50RB#0	21.40	19.40	23.00	PASS
Band42	15MHz	QPSK	43165	1RB#0	23.70	21.70	23.00	PASS
Band42	15MHz	16QAM	43165	1RB#0	22.80	20.80	23.00	PASS
Band42	15MHz	QPSK	43165	1RB#38	23.56	21.56	23.00	PASS
Band42	15MHz	16QAM	43165	1RB#38	22.91	20.91	23.00	PASS
Band42	15MHz	QPSK	43165	1RB#74	23.39	21.39	23.00	PASS
Band42	15MHz	16QAM	43165	1RB#74	22.73	20.73	23.00	PASS
Band42	15MHz	QPSK	43165	75RB#0	22.75	20.75	23.00	PASS
Band42	15MHz	16QAM	43165	75RB#0	21.61	19.61	23.00	PASS
Band42	15MHz	QPSK	43340	1RB#0	23.44	21.44	23.00	PASS
Band42	15MHz	16QAM	43340	1RB#0	22.56	20.56	23.00	PASS
Band42	15MHz	QPSK	43340	1RB#38	23.50	21.50	23.00	PASS
Band42	15MHz	16QAM	43340	1RB#38	22.71	20.71	23.00	PASS
Band42	15MHz	QPSK	43340	1RB#74	23.52	21.52	23.00	PASS
Band42	15MHz	16QAM	43340	1RB#74	22.88	20.88	23.00	PASS
Band42	15MHz	QPSK	43340	75RB#0	22.59	20.59	23.00	PASS
Band42	15MHz	16QAM	43340	75RB#0	21.67	19.67	23.00	PASS
Band42	15MHz	QPSK	43515	1RB#0	23.55	21.55	23.00	PASS



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Band42	15MHz	16QAM	43515	1RB#0	22.78	20.78	23.00	PASS
Band42	15MHz	QPSK	43515	1RB#38	23.38	21.38	23.00	PASS
Band42	15MHz	16QAM	43515	1RB#38	22.55	20.55	23.00	PASS
Band42	15MHz	QPSK	43515	1RB#74	23.38	21.38	23.00	PASS
Band42	15MHz	16QAM	43515	1RB#74	22.63	20.63	23.00	PASS
Band42	15MHz	QPSK	43515	75RB#0	22.50	20.50	23.00	PASS
Band42	15MHz	16QAM	43515	75RB#0	21.66	19.66	23.00	PASS
Band42	20MHz	QPSK	43190	1RB#0	23.49	21.49	23.00	PASS
Band42	20MHz	16QAM	43190	1RB#0	22.85	20.85	23.00	PASS
Band42	20MHz	QPSK	43190	1RB#49	23.42	21.42	23.00	PASS
Band42	20MHz	16QAM	43190	1RB#49	22.68	20.68	23.00	PASS
Band42	20MHz	QPSK	43190	1RB#99	23.62	21.62	23.00	PASS
Band42	20MHz	16QAM	43190	1RB#99	22.91	20.91	23.00	PASS
Band42	20MHz	QPSK	43190	100RB#0	22.88	20.88	23.00	PASS
Band42	20MHz	16QAM	43190	100RB#0	21.81	19.81	23.00	PASS
Band42	20MHz	QPSK	43340	1RB#0	23.24	21.24	23.00	PASS
Band42	20MHz	16QAM	43340	1RB#0	22.64	20.64	23.00	PASS
Band42	20MHz	QPSK	43340	1RB#49	23.54	21.54	23.00	PASS
Band42	20MHz	16QAM	43340	1RB#49	22.63	20.63	23.00	PASS
Band42	20MHz	QPSK	43340	1RB#99	23.46	21.46	23.00	PASS
Band42	20MHz	16QAM	43340	1RB#99	22.86	20.86	23.00	PASS
Band42	20MHz	QPSK	43340	100RB#0	22.65	20.65	23.00	PASS
Band42	20MHz	16QAM	43340	100RB#0	21.77	19.77	23.00	PASS
Band42	20MHz	QPSK	43490	1RB#0	23.37	21.37	23.00	PASS
Band42	20MHz	16QAM	43490	1RB#0	22.80	20.80	23.00	PASS
Band42	20MHz	QPSK	43490	1RB#49	23.46	21.46	23.00	PASS
Band42	20MHz	16QAM	43490	1RB#49	22.71	20.71	23.00	PASS
Band42	20MHz	QPSK	43490	1RB#99	23.23	21.23	23.00	PASS
Band42	20MHz	16QAM	43490	1RB#99	22.75	20.75	23.00	PASS
Band42	20MHz	QPSK	43490	100RB#0	22.61	20.61	23.00	PASS
Band42	20MHz	16QAM	43490	100RB#0	21.51	19.51	23.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band42	20MHz	QPSK	43190	100RB#0	7.30	13	PASS
Band42	20MHz	16QAM	43190	100RB#0	8.00	13	PASS
Band42	20MHz	QPSK	43340	100RB#0	7.52	13	PASS
Band42	20MHz	16QAM	43340	100RB#0	8.14	13	PASS
Band42	20MHz	QPSK	43490	100RB#0	7.36	13	PASS
Band42	20MHz	16QAM	43490	100RB#0	8.16	13	PASS



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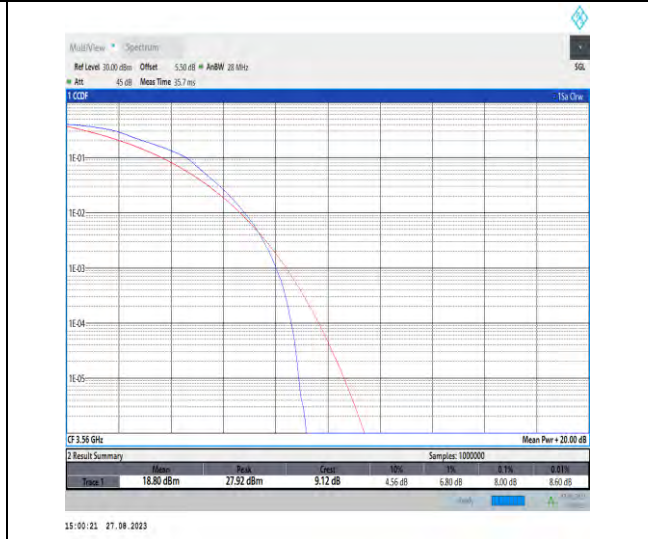
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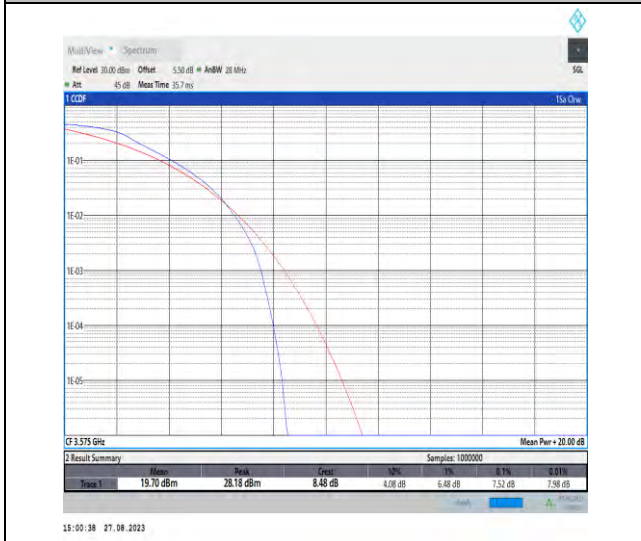
**Test Graphs**



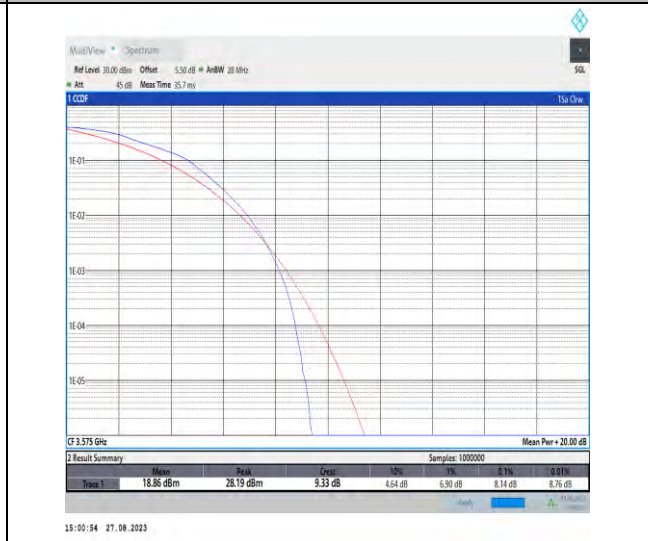
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**Band42-20MHz-16QAM-43190-100RB#0-PASS**



**Band42-20MHz-QPSK-43340-100RB#0-PASS**



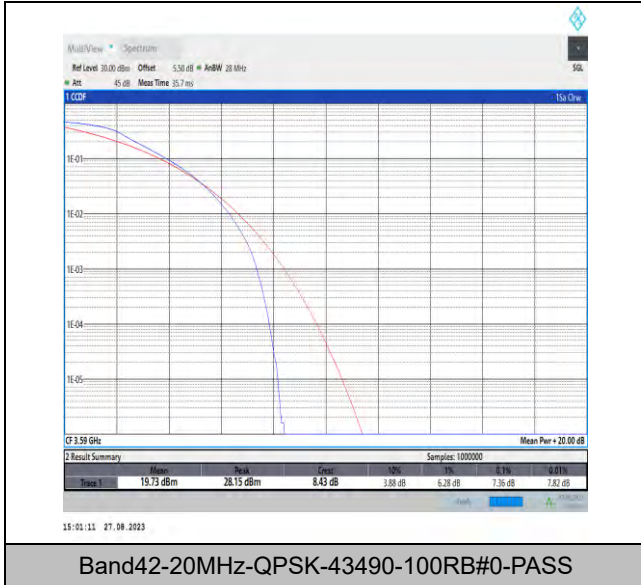
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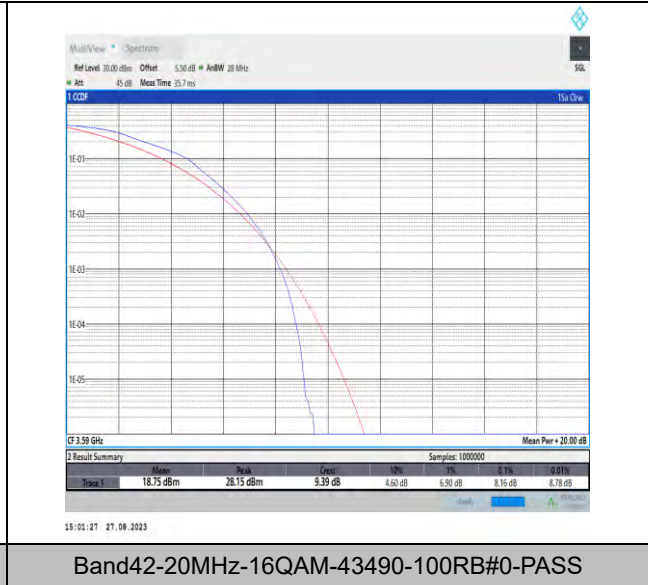
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Band42-20MHz-QPSK-43490-100RB#0-PASS



Band42-20MHz-16QAM-43490-100RB#0-PASS



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band42	5MHz	QPSK	43340	25RB#0	4.497	4.90	PASS
Band42	5MHz	16QAM	43340	25RB#0	4.493	4.76	PASS
Band42	10MHz	QPSK	43340	50RB#0	8.999	9.60	PASS
Band42	10MHz	16QAM	43340	50RB#0	8.950	9.60	PASS
Band42	15MHz	QPSK	43340	75RB#0	13.520	14.65	PASS
Band42	15MHz	16QAM	43340	75RB#0	13.498	14.25	PASS
Band42	20MHz	QPSK	43340	100RB#0	18.021	19.20	PASS
Band42	20MHz	16QAM	43340	100RB#0	17.988	19.47	PASS



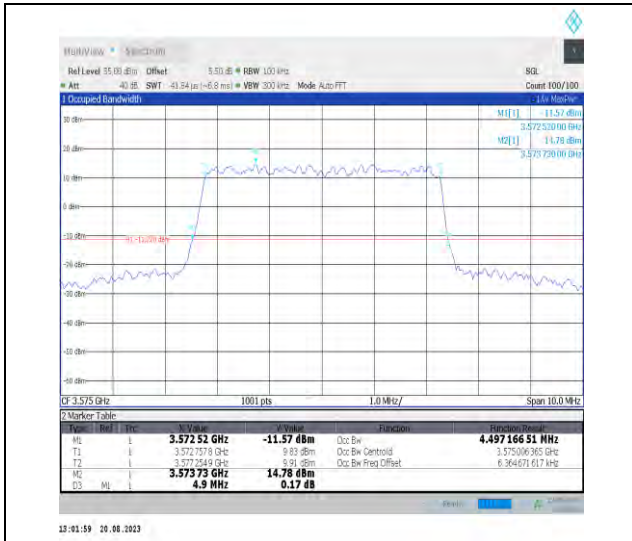
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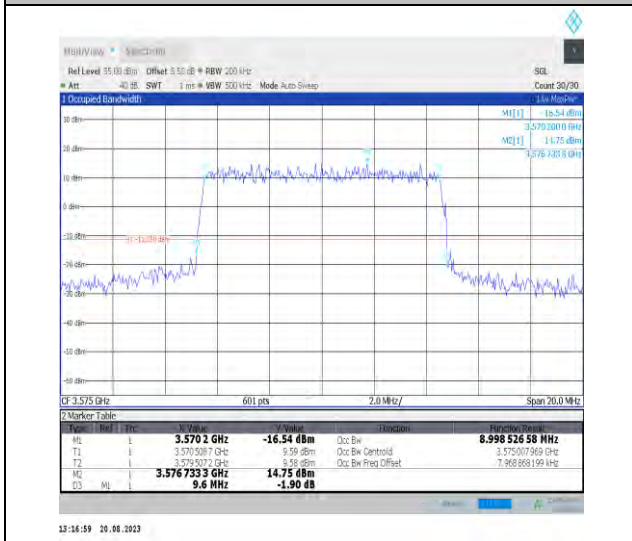
## Test Graphs



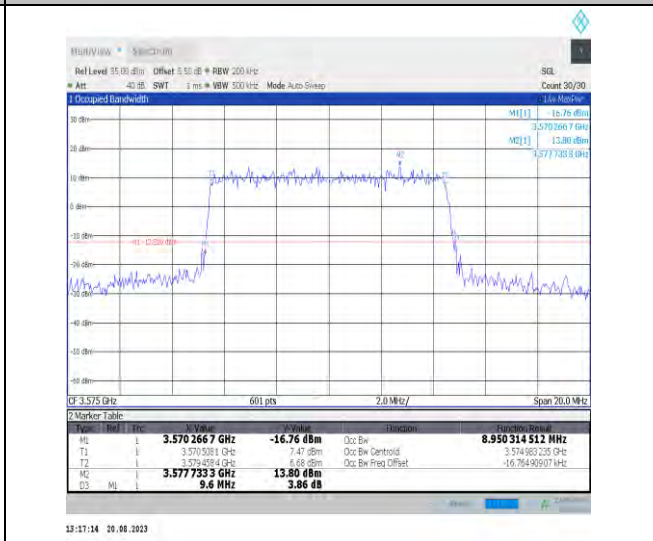
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Band42-5MHz-16QAM-43340-25RB#0-PASS



Band42-10MHz-QPSK-43340-50RB#0-PASS



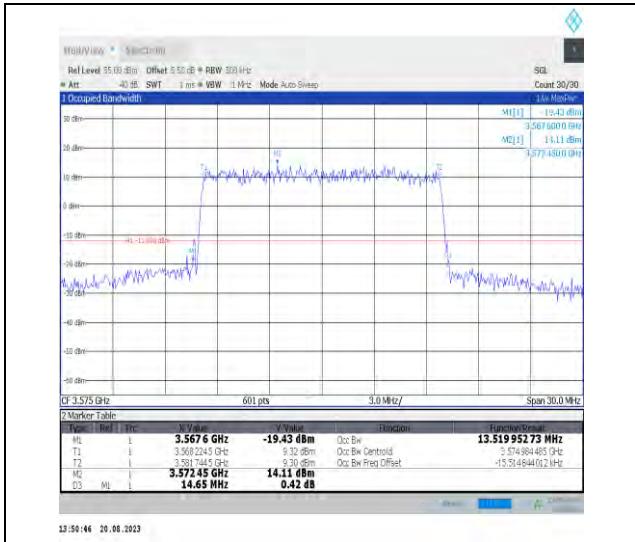
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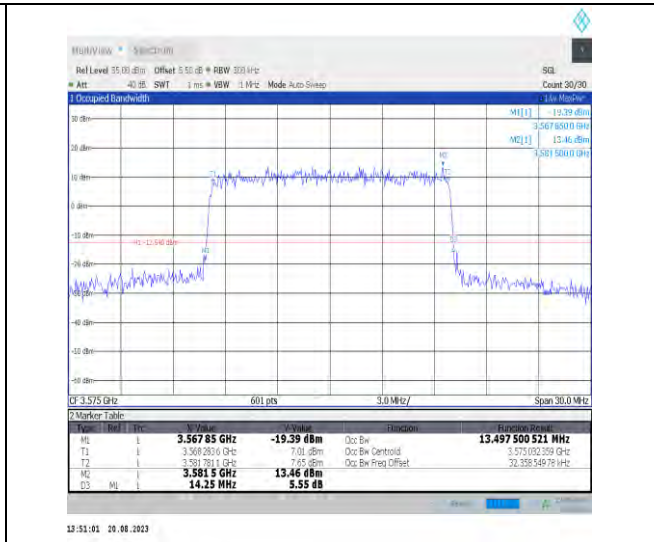
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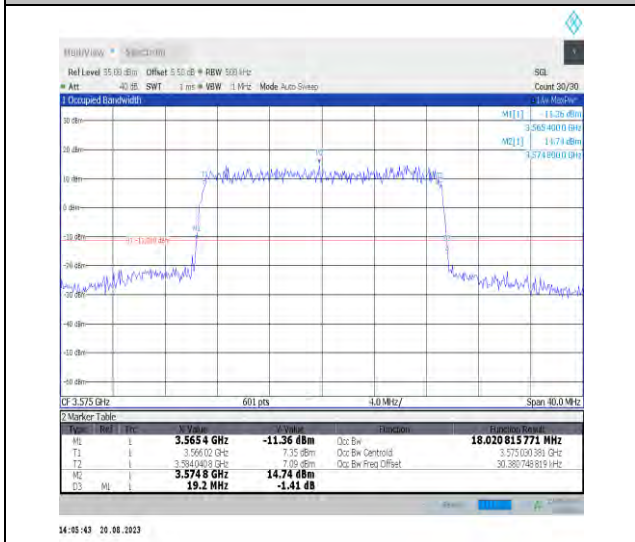
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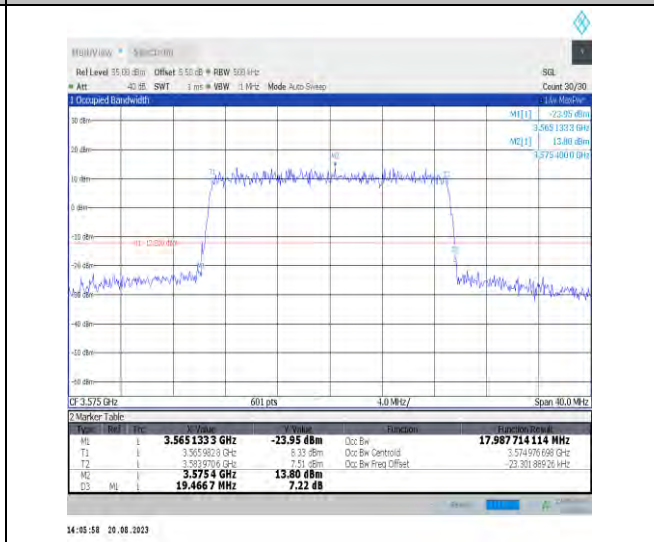
Band42-15MHz-QPSK-43340-75RB#0-PASS



Band42-15MHz-16QAM-43340-75RB#0-PASS



Band42-20MHz-QPSK-43340-100RB#0-PASS



Band42-20MHz-16QAM-43340-100RB#0-PASS



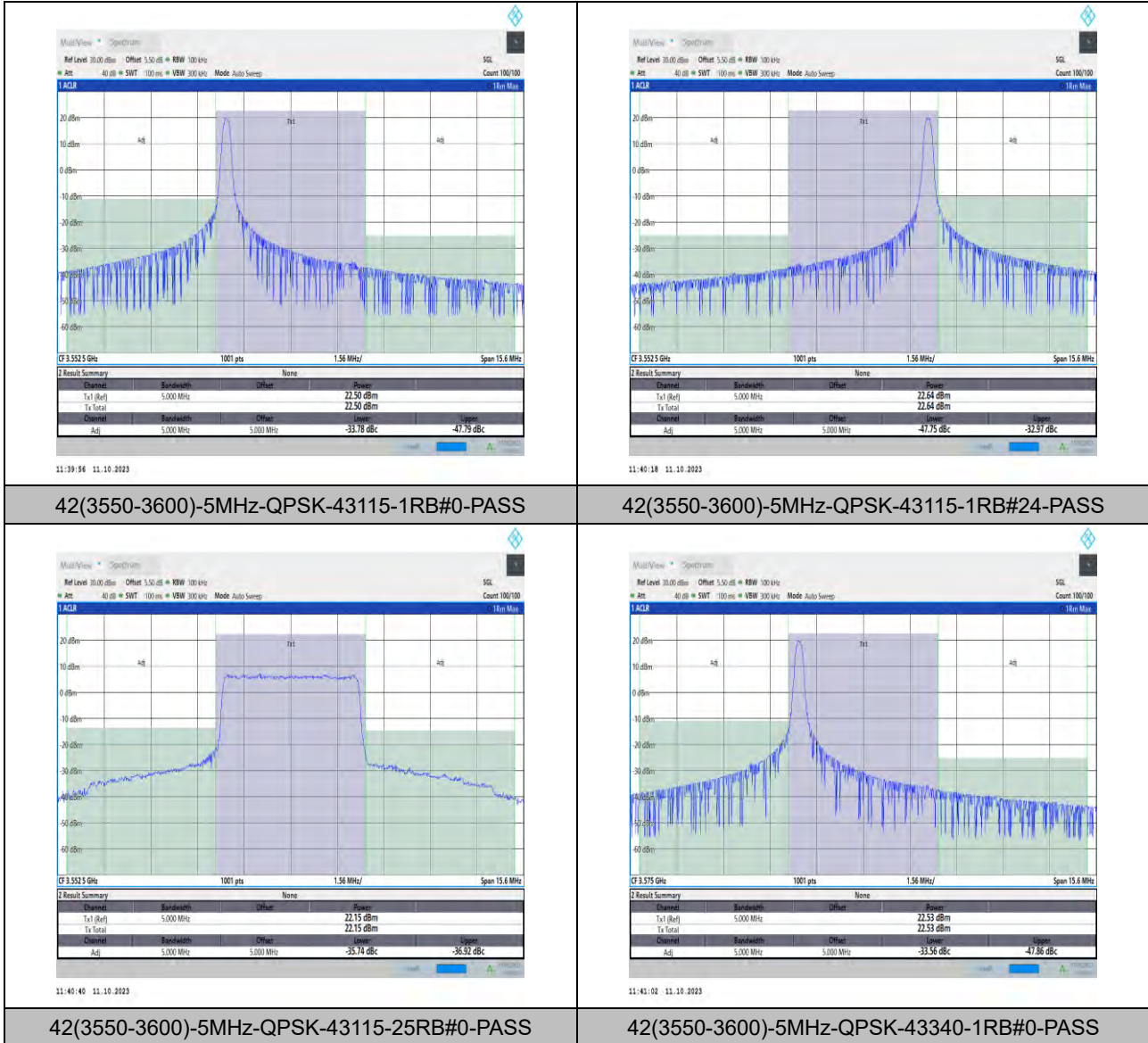
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## Adjacent channel leakage ratio

### Test Graphs



42(3550-3600)-5MHz-QPSK-43115-1RB#0-PASS

42(3550-3600)-5MHz-QPSK-43115-1RB#24-PASS

42(3550-3600)-5MHz-QPSK-43115-25RB#0-PASS

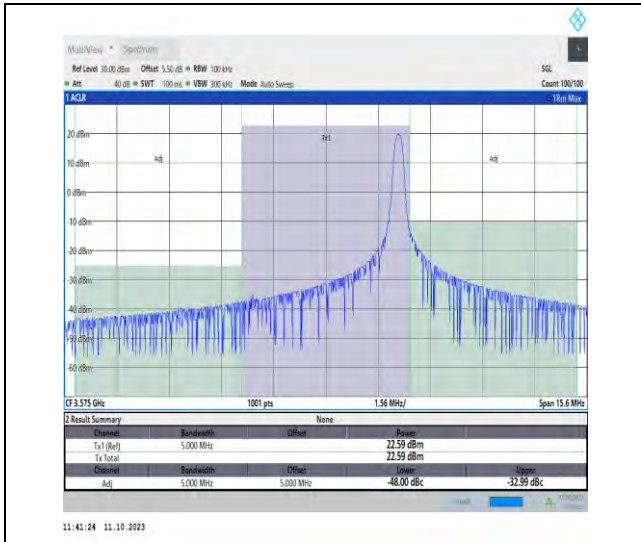
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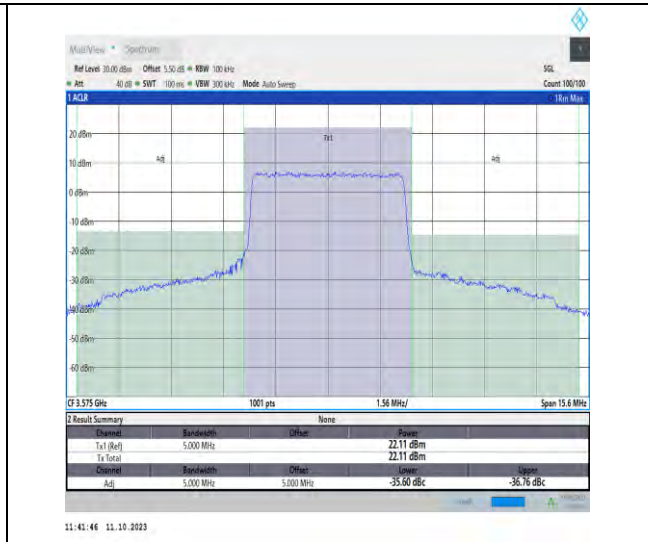
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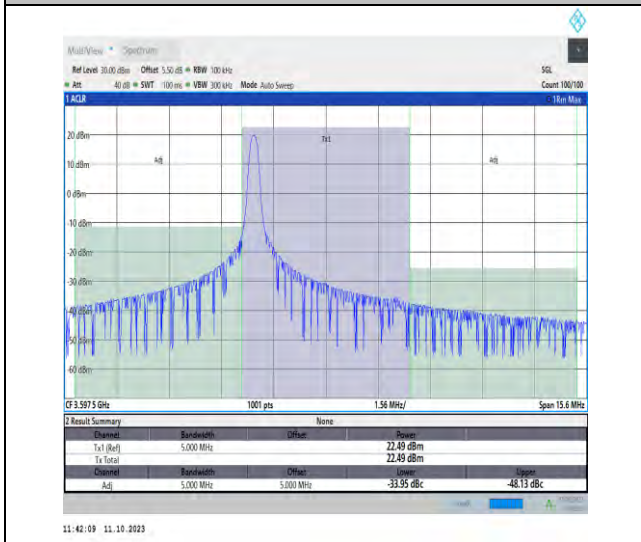
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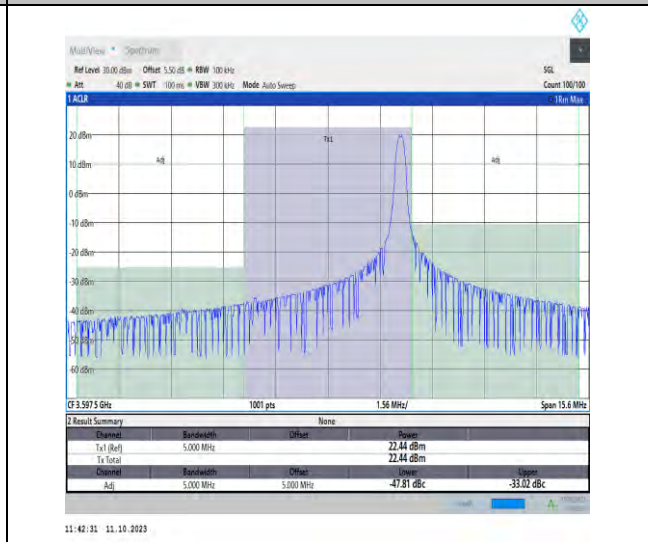
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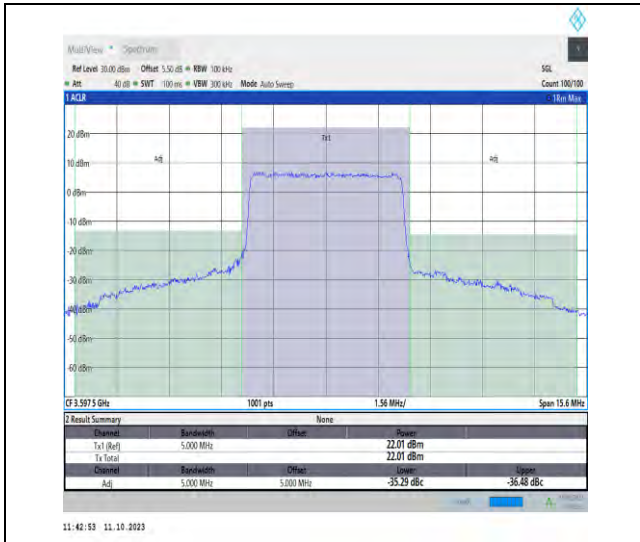
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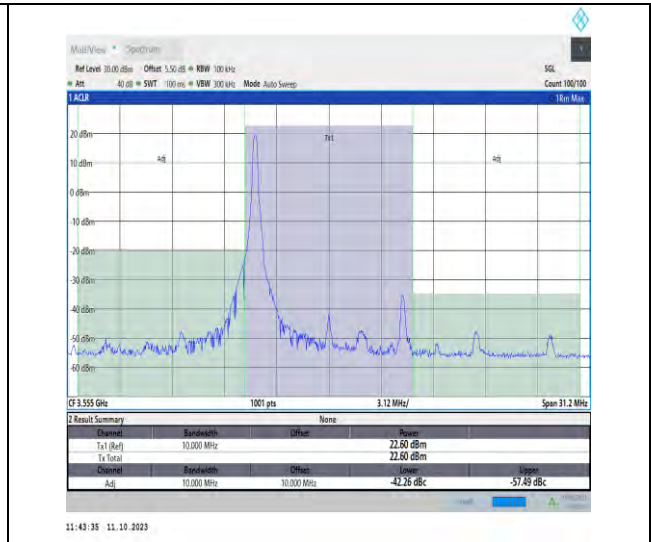
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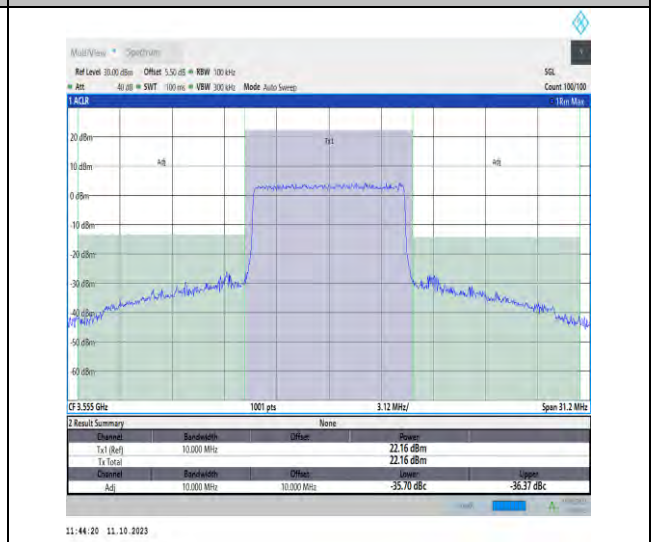
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42(3550-3600)-10MHz-QPSK-43140-1RB#0-PASS



42(3550-3600)-10MHz-QPSK-43140-1RB#49-PASS



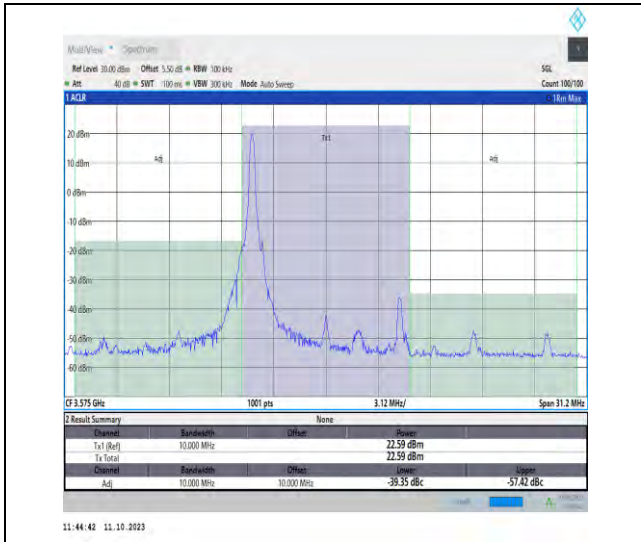
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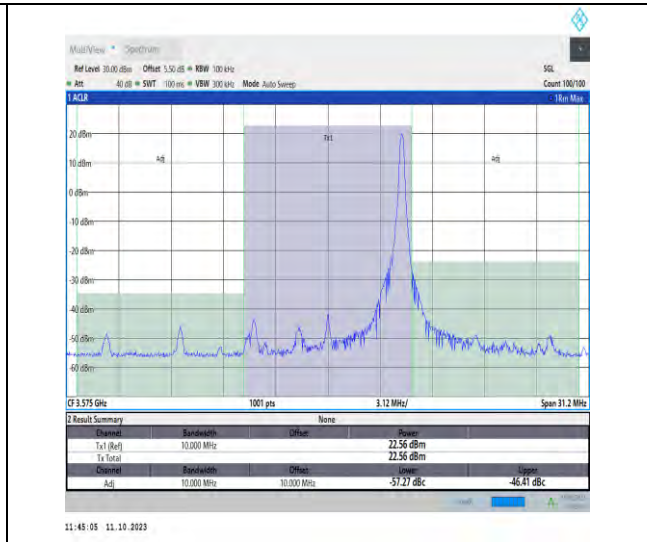
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42(3550-3600)-10MHz-QPSK-43340-1RB#0-PASS



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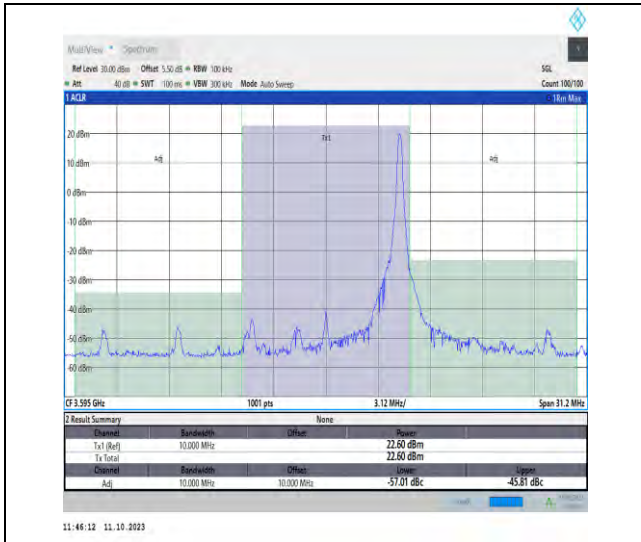
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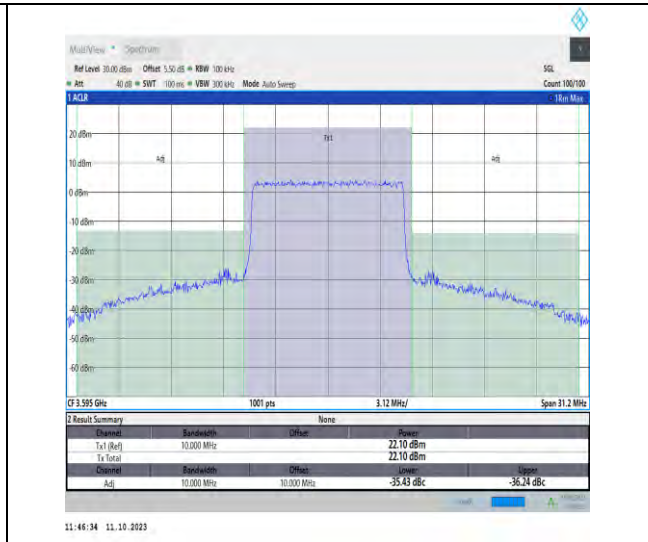
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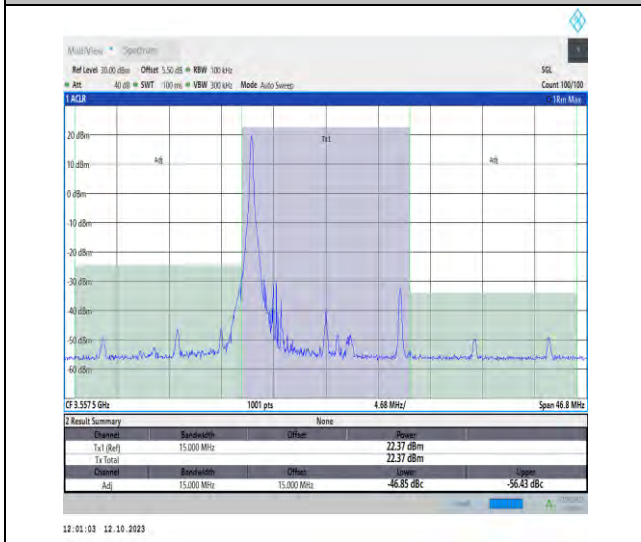
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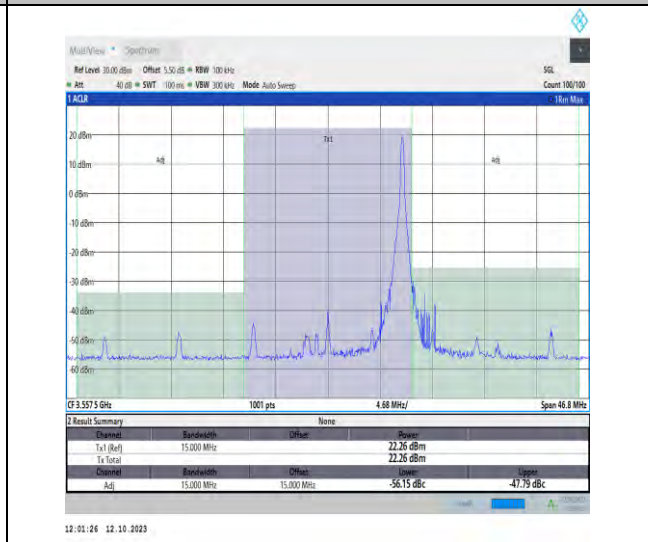
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42(3550-3600)-15MHz-QPSK-43165-1RB#0-PASS



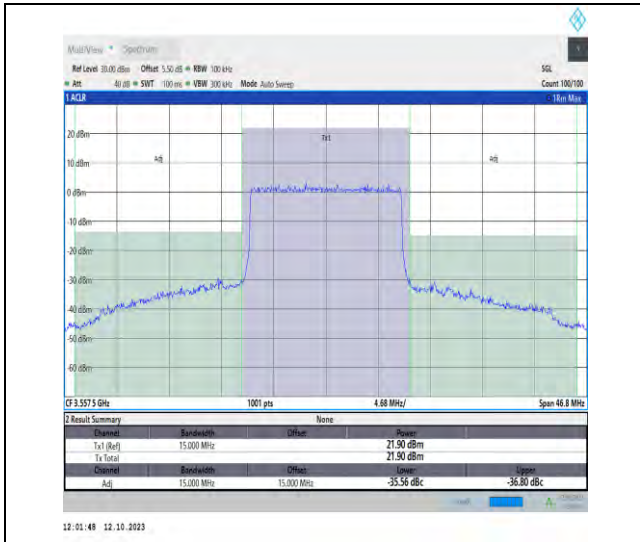
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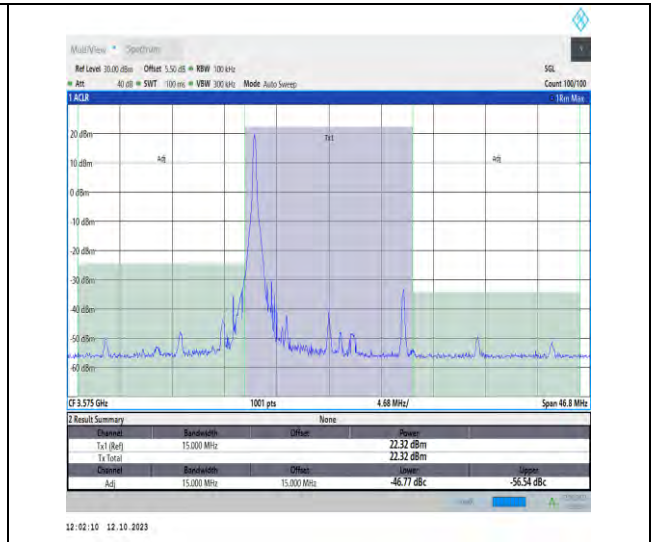
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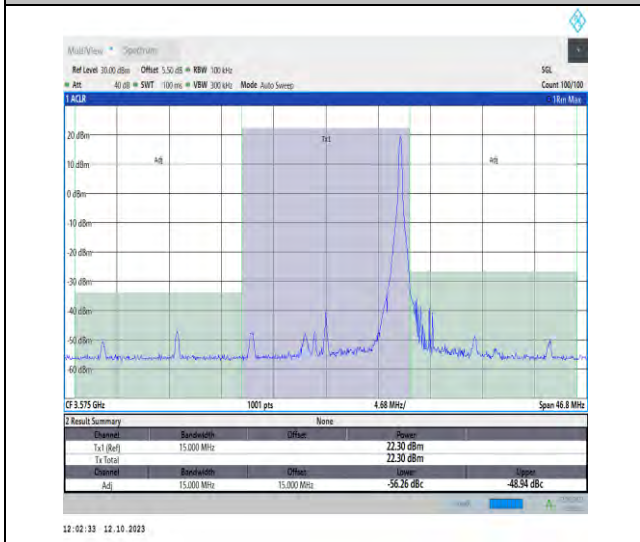
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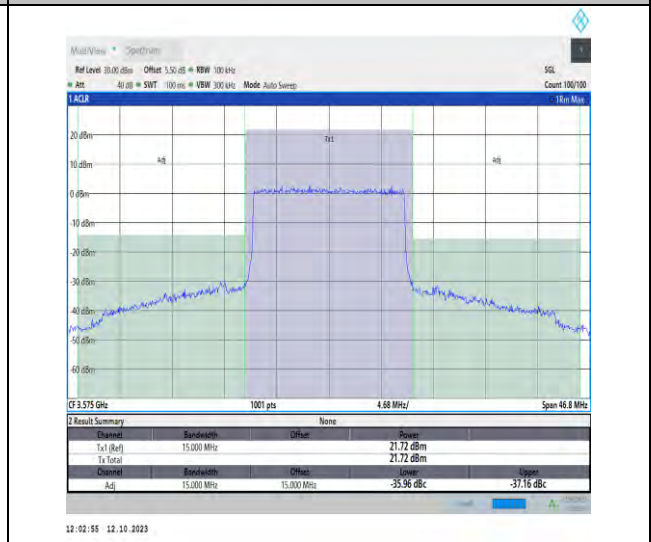
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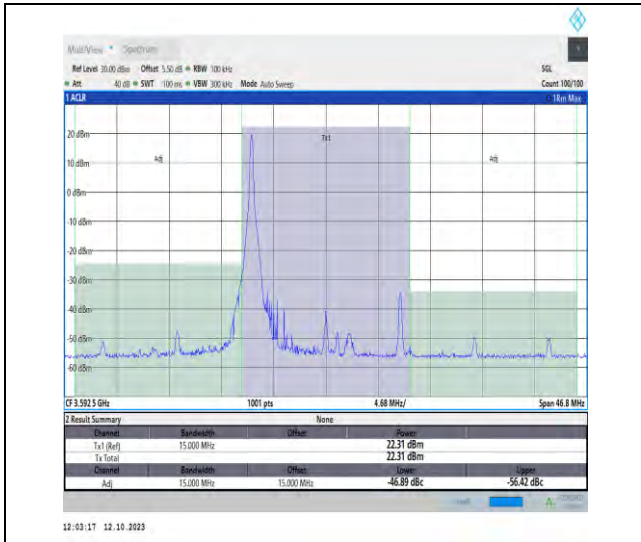


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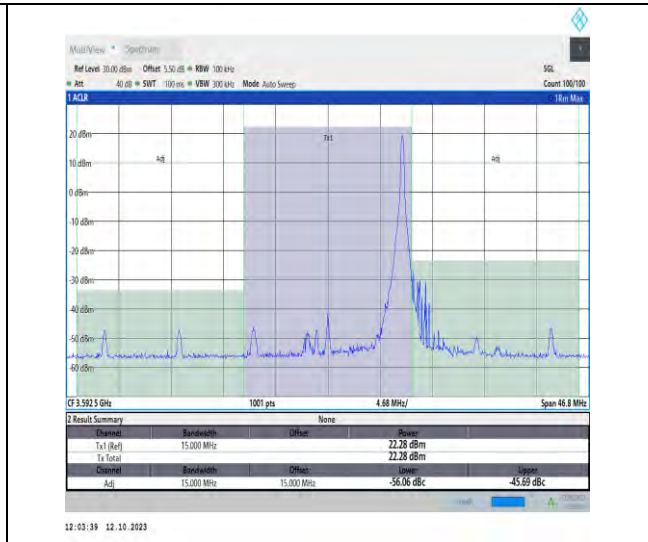
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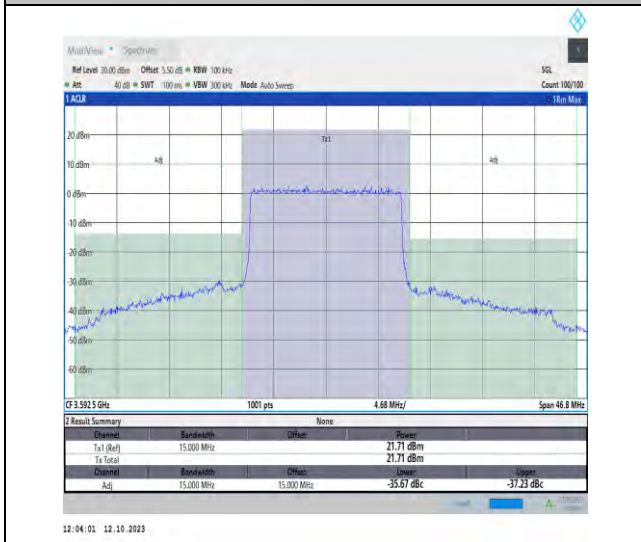




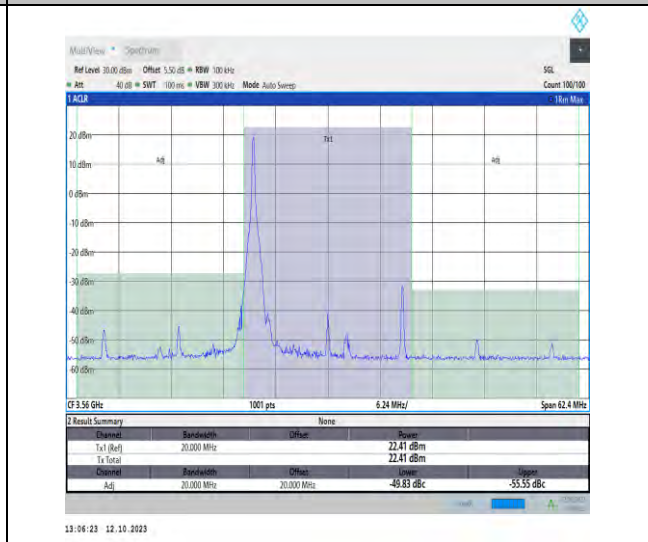
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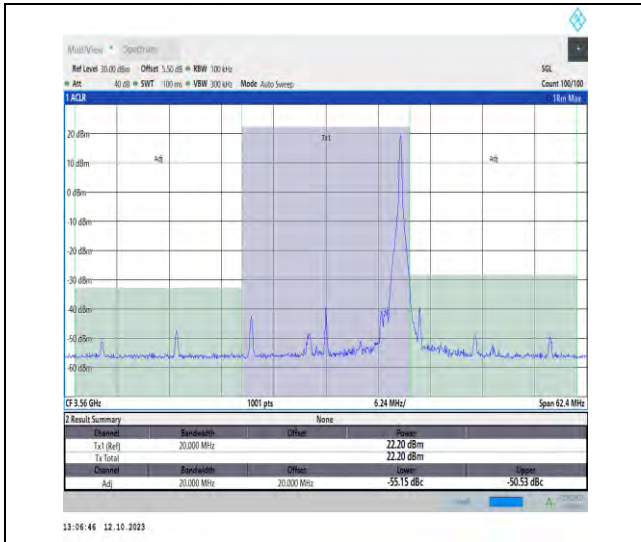
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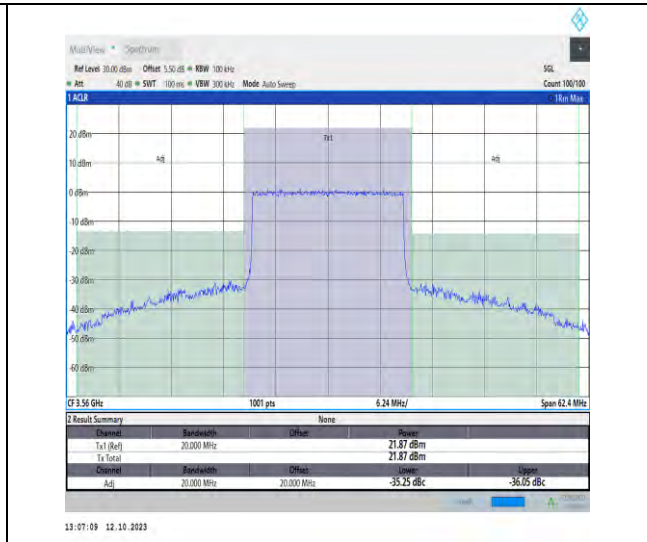
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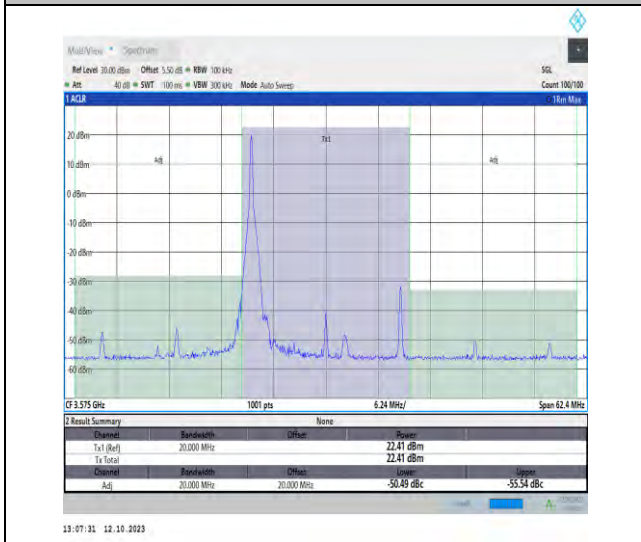
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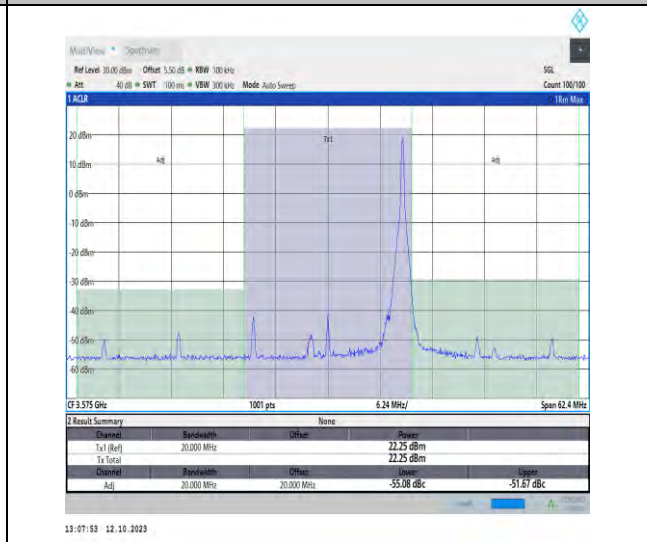
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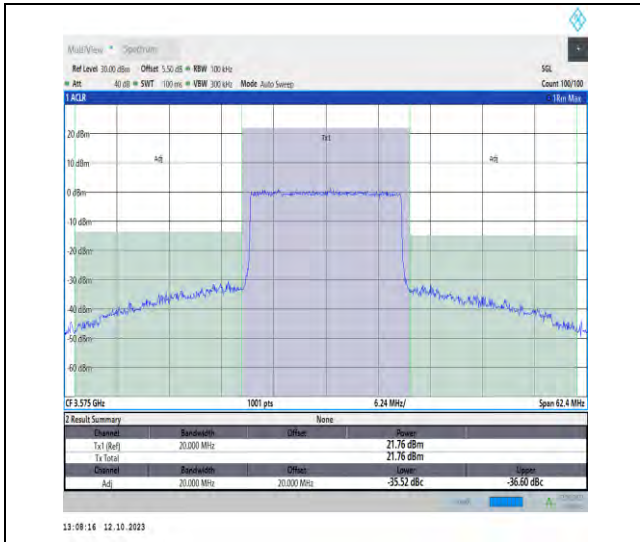
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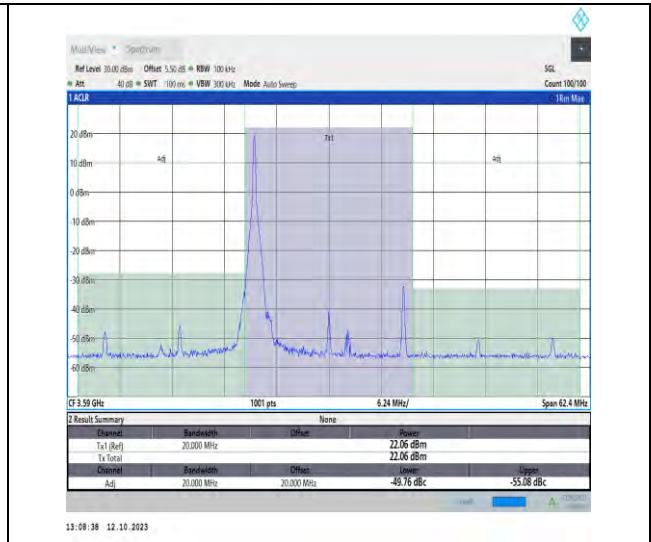
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42(3550-3600)-20MHz-QPSK-43340-100RB#0-PASS



42(3550-3600)-20MHz-QPSK-43490-1RB#0-PASS



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42(3550-3600)-20MHz-QPSK-43490-100RB#0-PASS



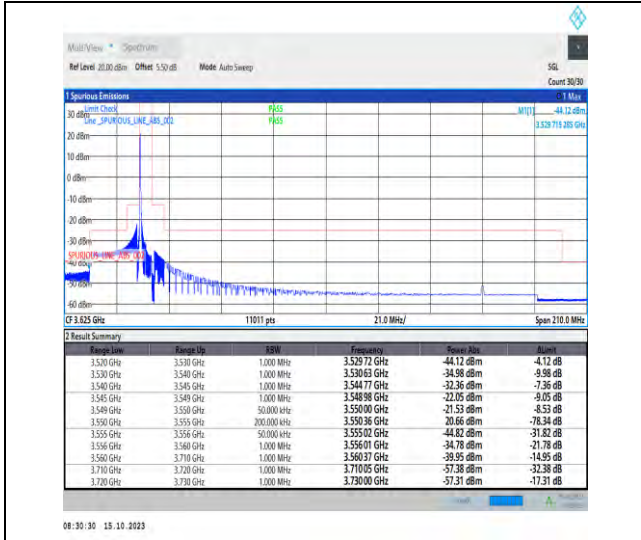
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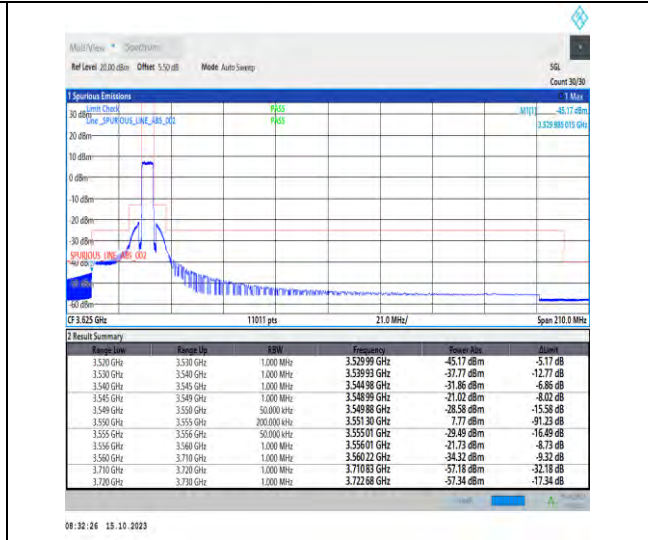
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## Band Edge

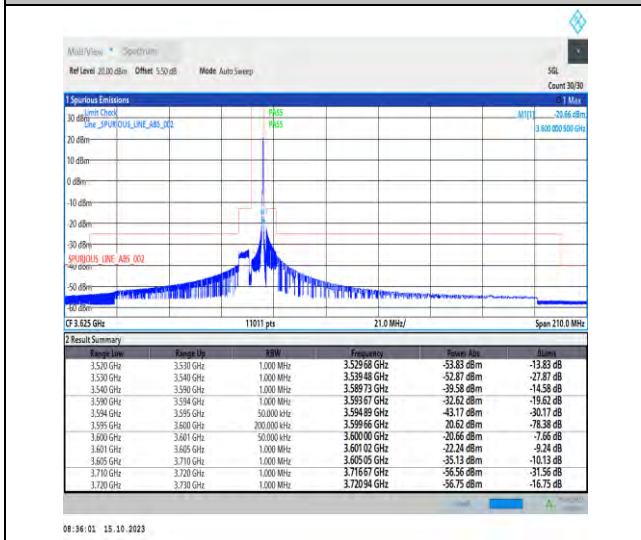
### Test Graphs



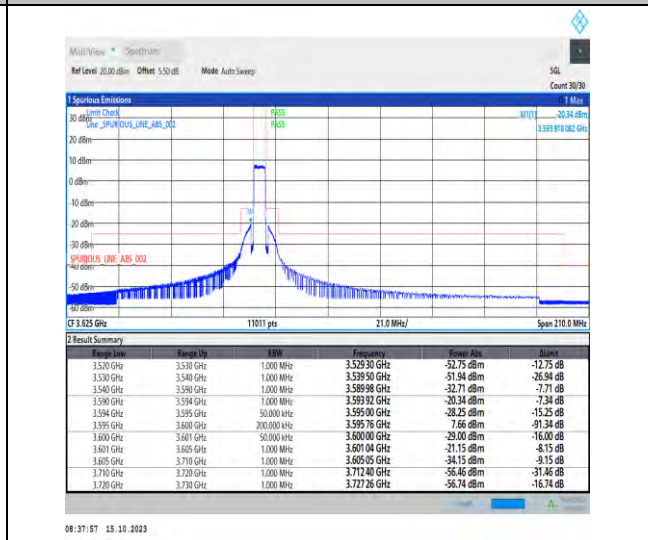
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Band42\_5MHz\_QPSK\_43115\_25RB#0



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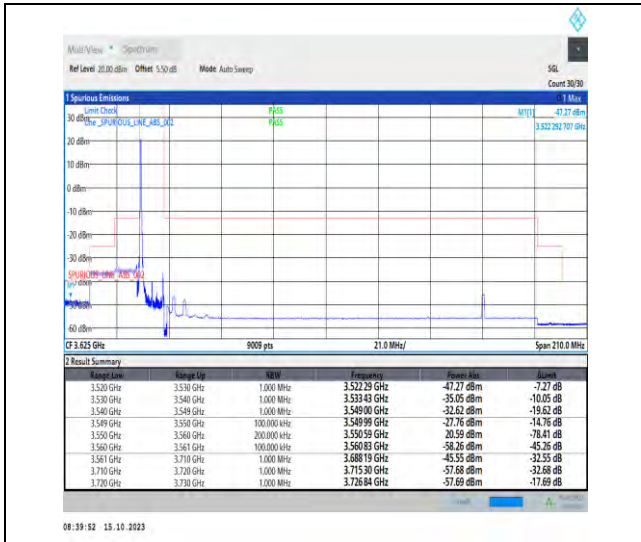
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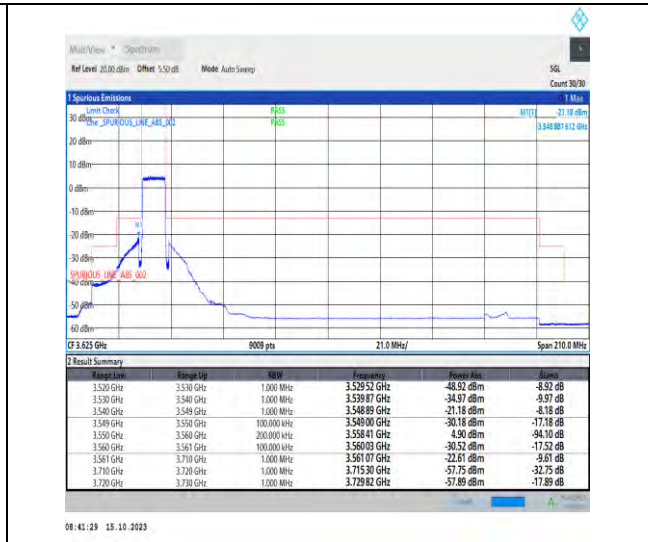
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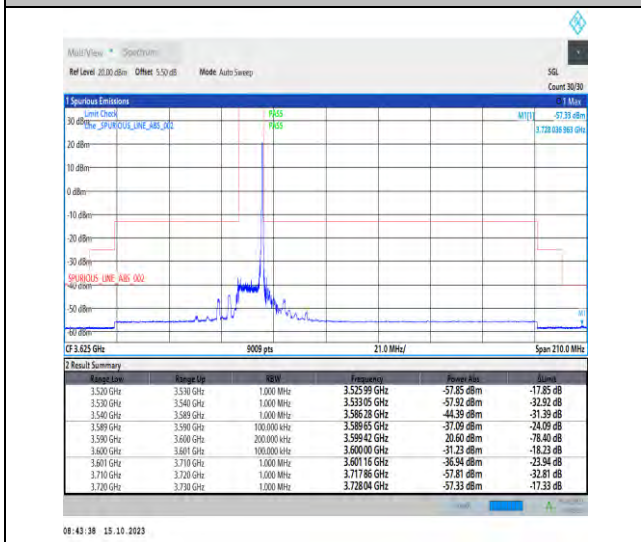
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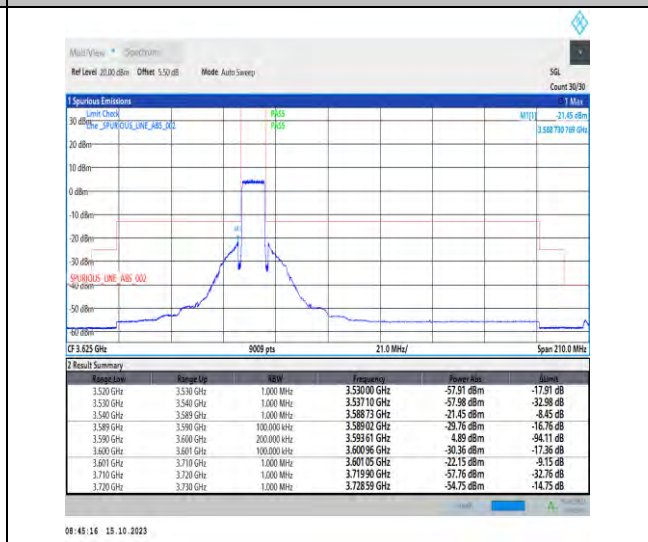
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Band42\_10MHz\_QPSK\_43140\_50RB#0



Band42\_10MHz\_QPSK\_43540\_1RB#49



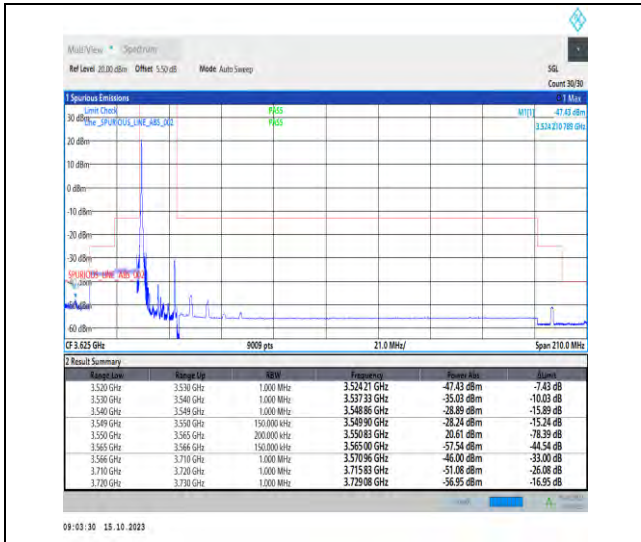
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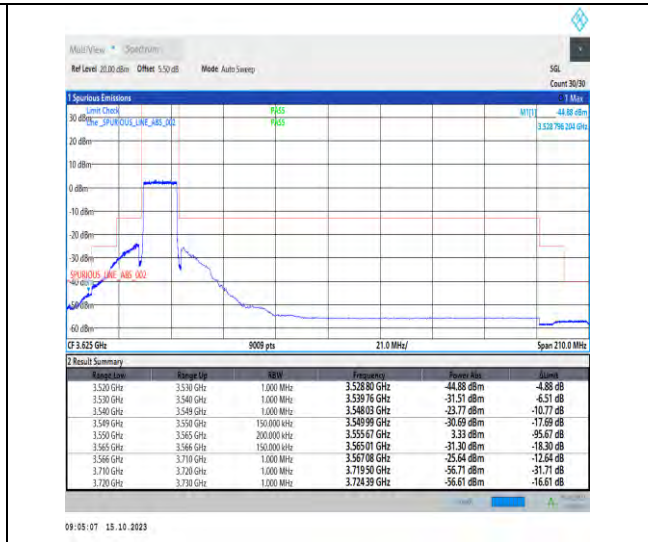
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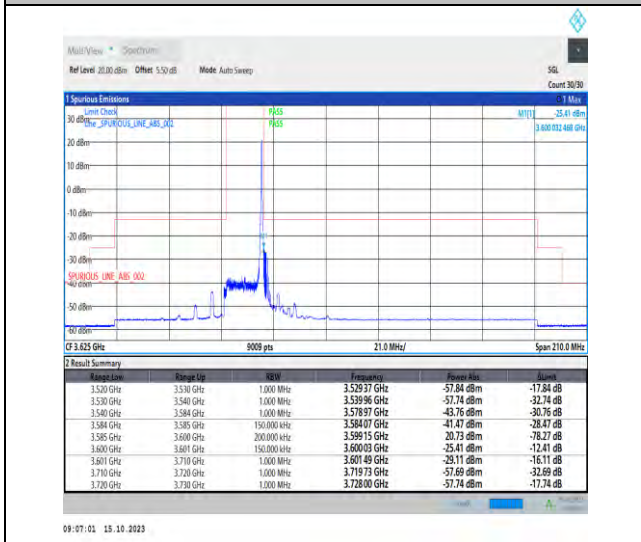
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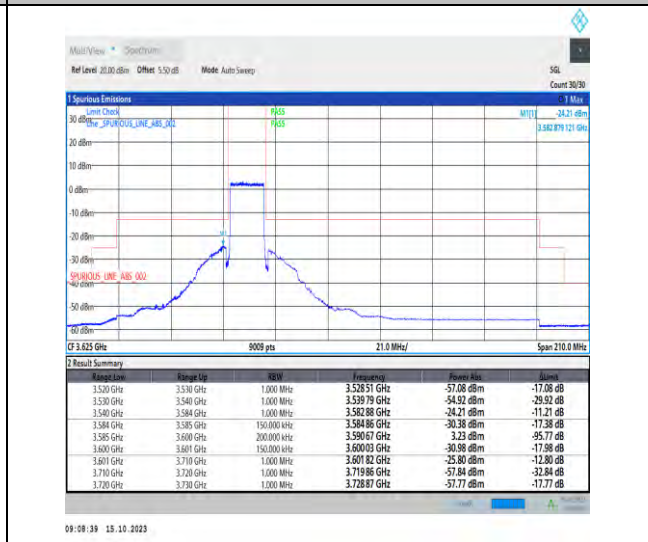
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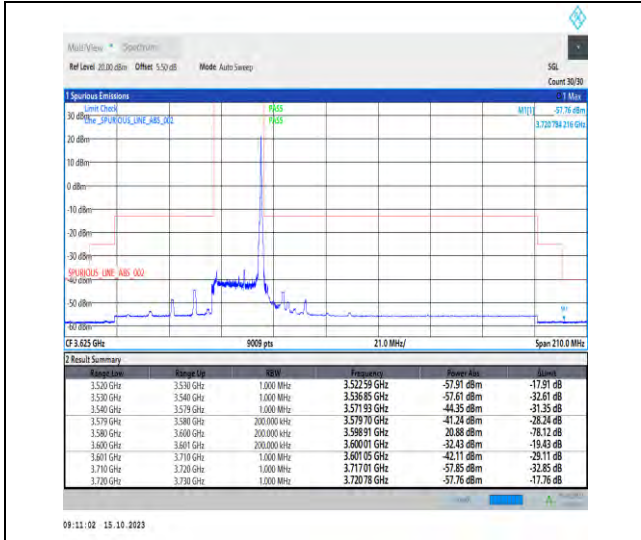
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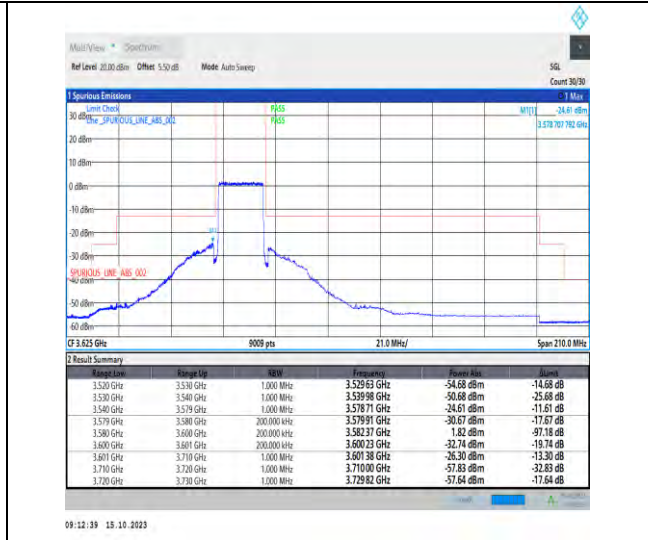
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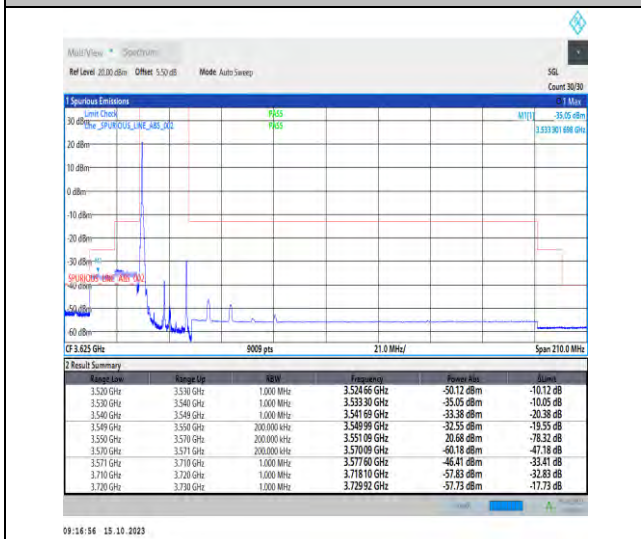
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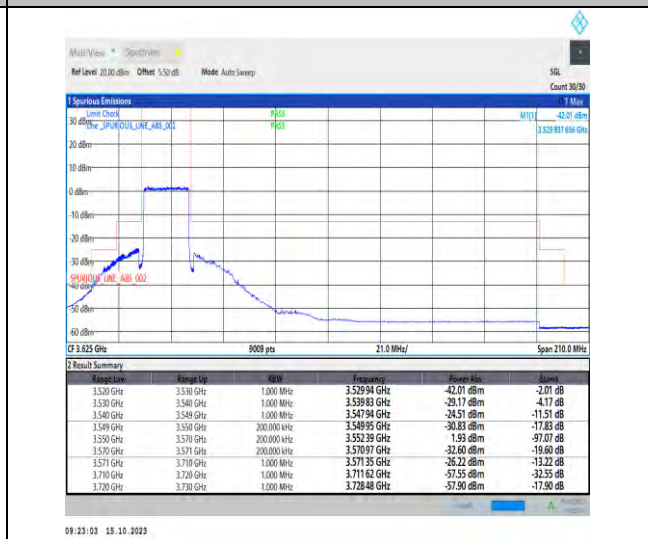
Band42\_20MHz\_QPSK\_43490\_1RB#99



Band42\_20MHz\_QPSK\_43490\_100RB#0



Band42\_20MHz\_QPSK\_43190\_1RB#0



Band42\_20MHz\_QPSK\_43190\_100RB#0



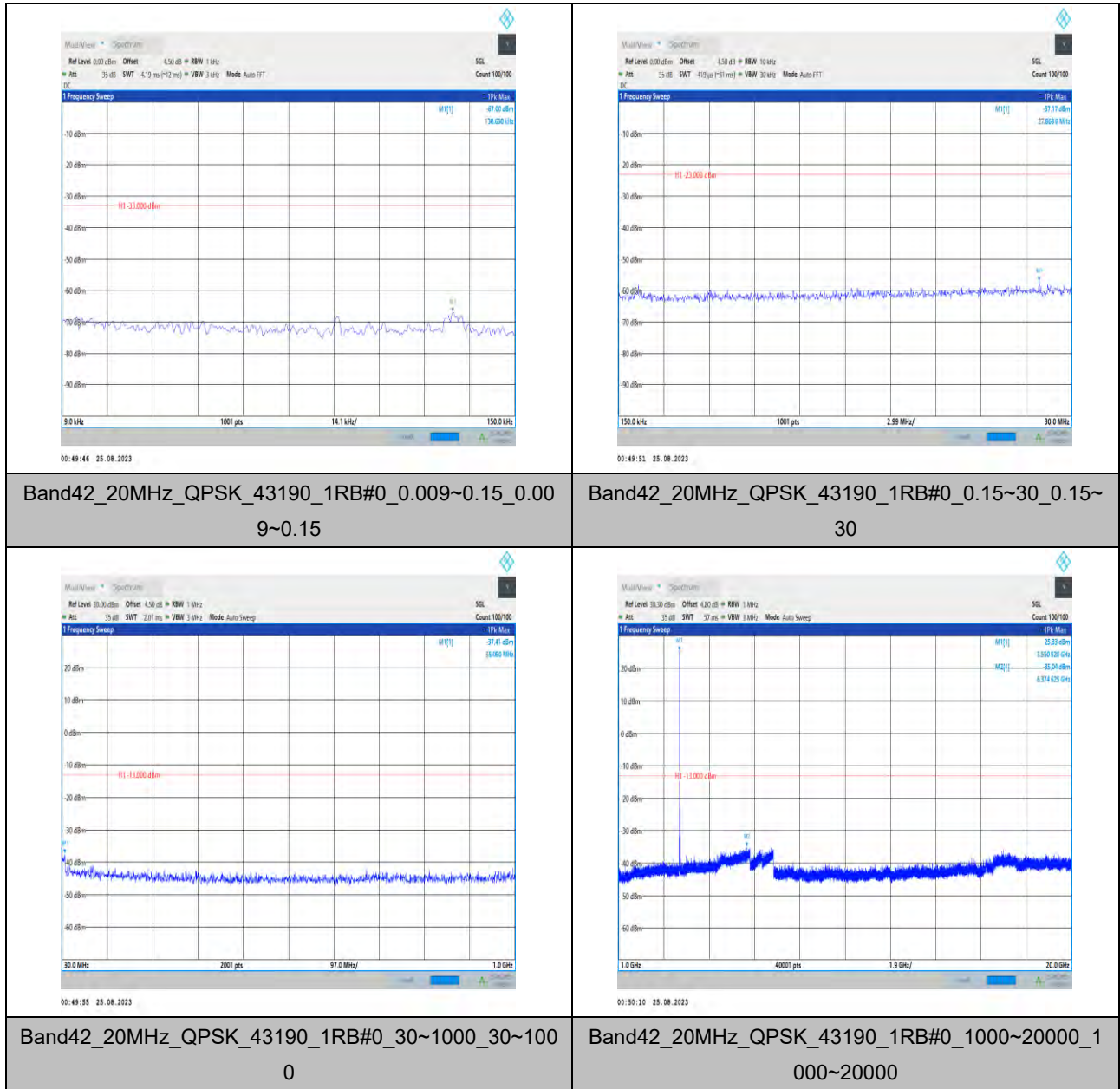
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## Conducted Spurious Emission

### Test Graphs

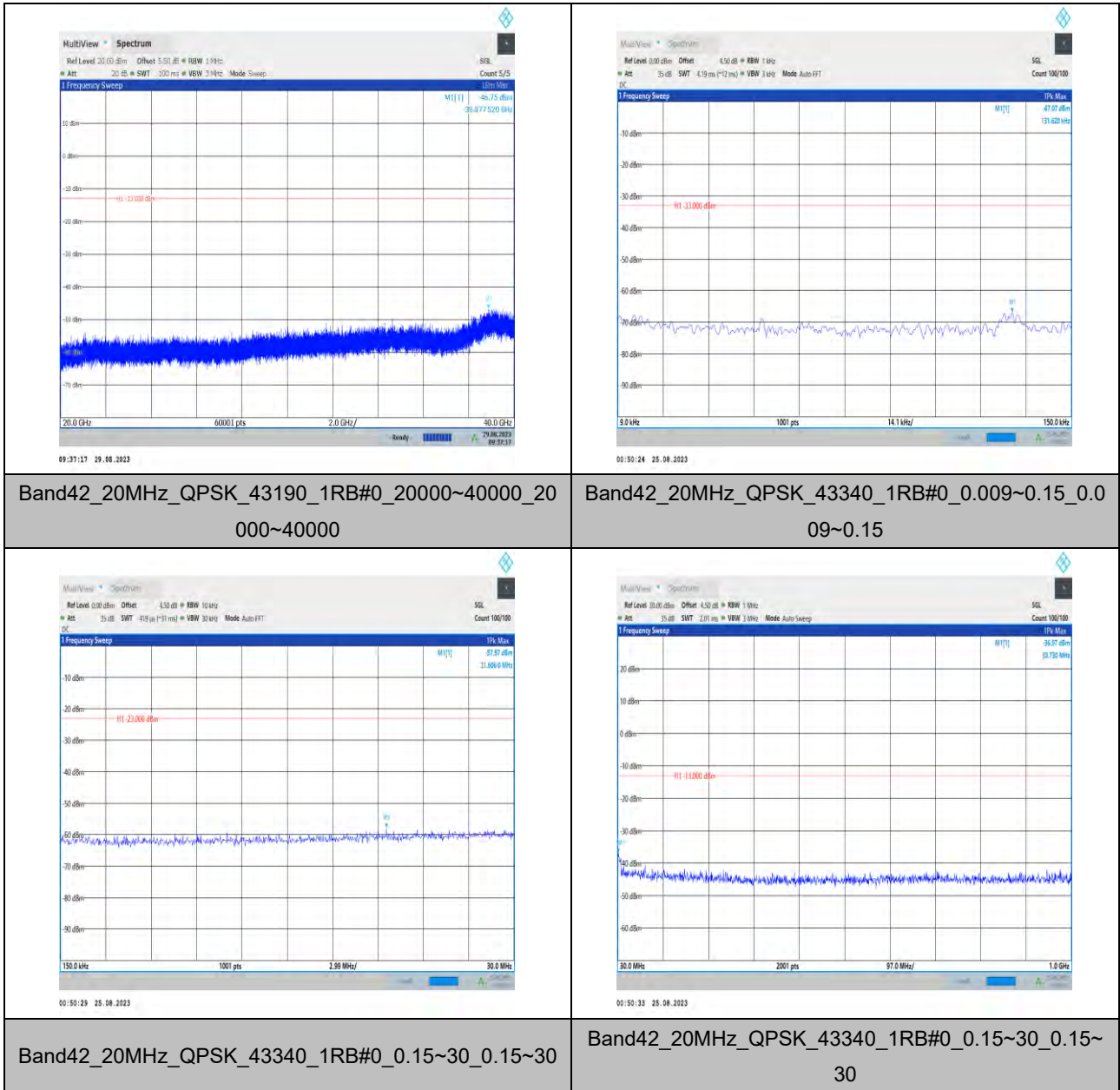


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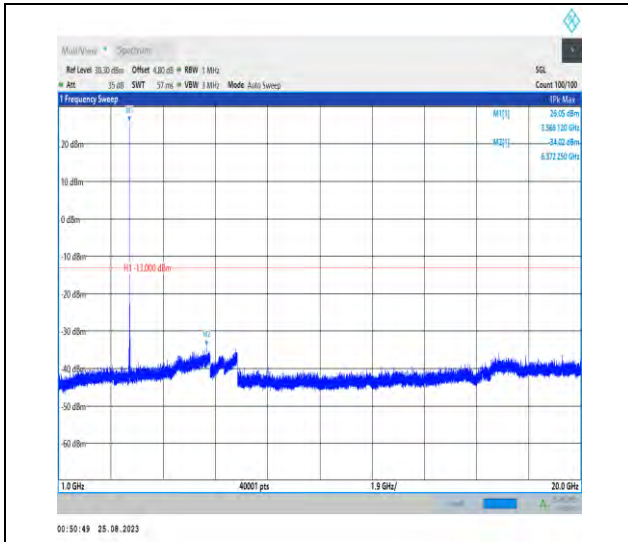




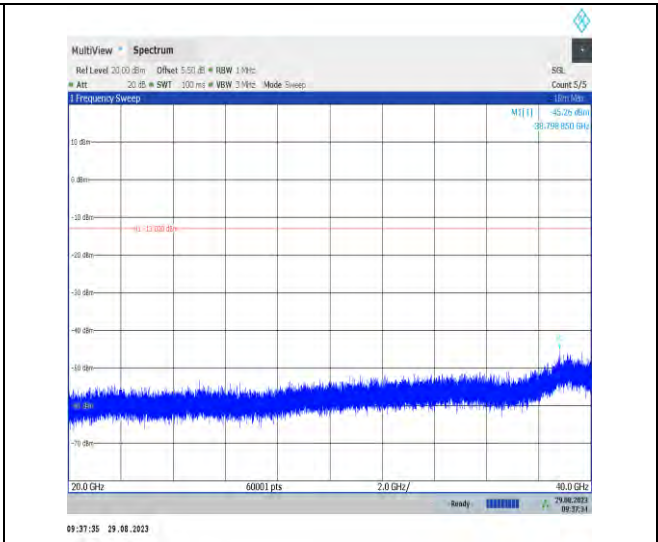
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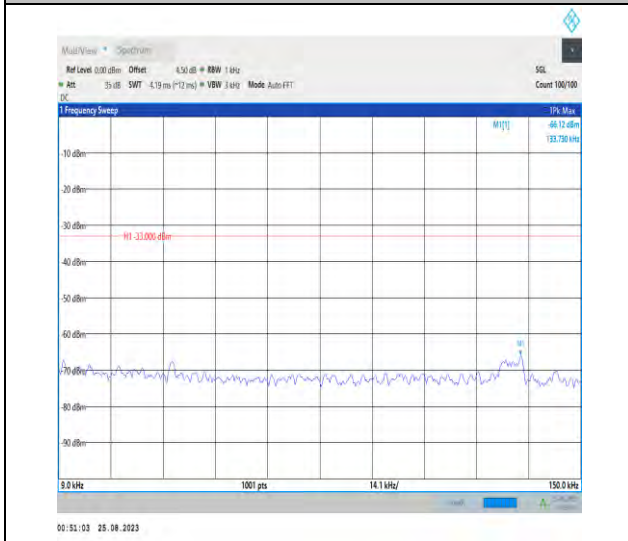
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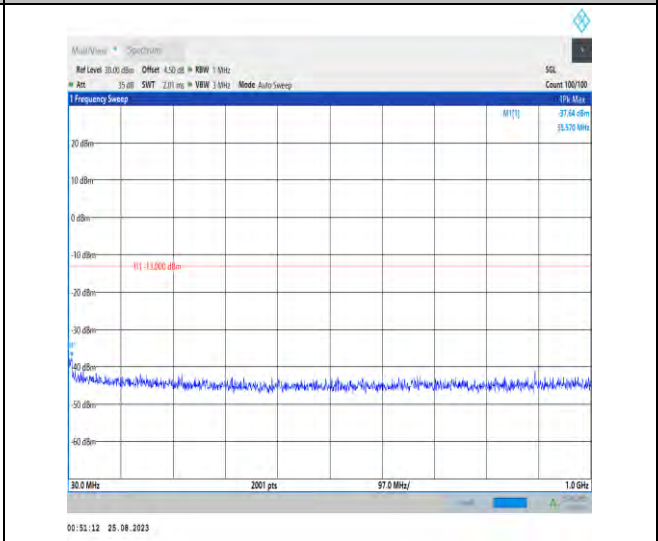
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Band42\_20MHz\_QPSK\_43340\_1RB#0\_20000~40000\_20000~40000



Band42\_20MHz\_QPSK\_43490\_1RB#0\_0.009~0.15\_09~0.15



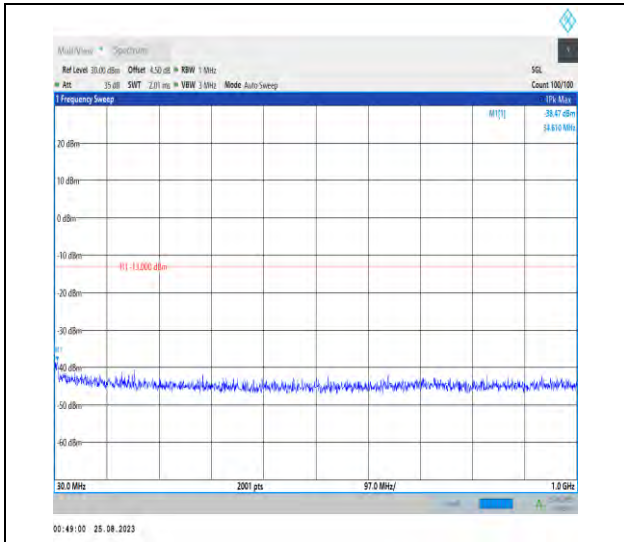
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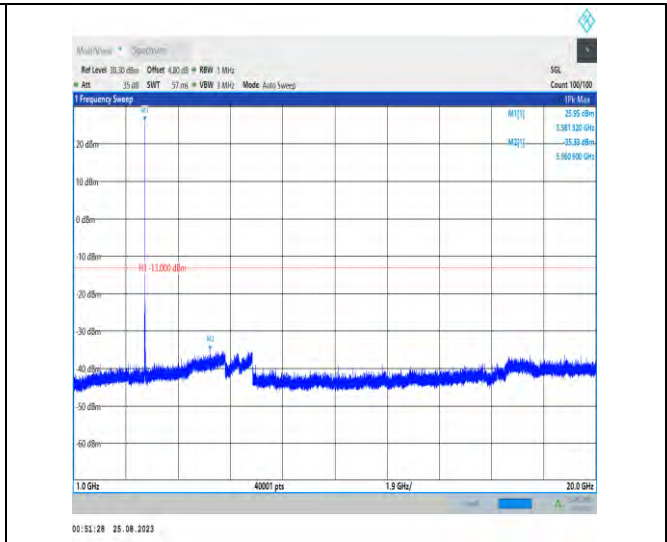
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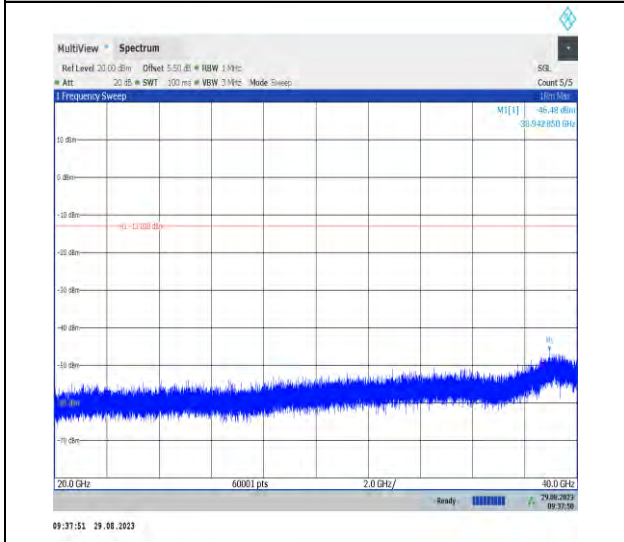
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Band42\_20MHz\_QPSK\_43490\_1RB#0\_30~1000\_30~1000



Band42\_20MHz\_QPSK\_43490\_1RB#0\_1000~20000\_1000~20000



Band42\_20MHz\_QPSK\_43490\_1RB#0\_20000~40000\_20000~40000



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## Field Strength of Spurious Radiation

Test Band = LTE Band42\_TM1\_20MHz

Test Channel = Low 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7102.1800	43.00	-43.66	35.49	-60.43	-40.00	20.43	222	60	Horizontal
2	8655.675	38.45	-41.14	36.47	-61.48	-40.00	21.48	133	4	Horizontal
3	9423.875	36.36	-39.93	37.11	-61.72	-40.00	21.72	265	351	Horizontal
4	10653.2700	32.34	-37.73	38.53	-62.12	-40.00	22.12	148	60	Horizontal
5	14204.3600	27.26	-35.33	40.98	-62.35	-40.00	22.35	159	162	Horizontal
6	17755.4500	30.96	-33.78	45.70	-52.37	-40.00	12.37	190	94	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7102.025	49.78	-43.66	35.49	-53.65	-40.00	13.65	168	335	Vertical
2	8431.425	39.22	-41.51	36.58	-60.96	-40.00	20.96	148	187	Vertical
3	9563.025	36.04	-39.48	37.37	-61.33	-40.00	21.33	172	243	Vertical
4	10653.2700	33.95	-37.73	38.53	-60.51	-40.00	20.51	192	19	Vertical
5	14204.3600	27.51	-35.33	40.98	-62.10	-40.00	22.10	154	63	Vertical
6	17755.4500	31.07	-33.78	45.70	-52.26	-40.00	12.26	183	323	Vertical



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**Test Band = LTE Band42\_ TM1\_20MHz**

**Test Channel = Mid 3550-3600**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7132.1800	45.65	-43.64	35.57	-57.68	-40.00	17.68	248	24	Horizontal
2	8031.225	38.97	-41.88	36.78	-61.39	-40.00	21.39	146	360	Horizontal
3	9642.375	36.00	-39.32	37.52	-61.06	-40.00	21.06	198	360	Horizontal
4	10698.2700	32.24	-37.50	38.55	-61.97	-40.00	21.97	172	36	Horizontal
5	14264.3600	28.68	-35.67	41.01	-61.24	-40.00	21.24	153	349	Horizontal
6	17830.4500	31.73	-34.45	46.04	-51.94	-40.00	11.94	177	160	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7132.1800	49.28	-43.64	35.57	-54.05	-40.00	14.05	278	0	Vertical
2	8409.575	39.53	-41.41	36.60	-60.55	-40.00	20.55	189	28	Vertical
3	9262.3	36.66	-40.02	36.80	-61.83	-40.00	21.83	168	154	Vertical
4	10698.2700	33.01	-37.50	38.55	-61.20	-40.00	21.20	175	255	Vertical
5	14264.3600	28.68	-35.67	41.01	-61.24	-40.00	21.24	142	289	Vertical
6	17830.4500	30.91	-34.45	46.04	-52.76	-40.00	12.76	156	62	Vertical



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**Test Band = LTE Band42\_ TM1\_20MHz**

**Test Channel = High 3550-3600**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7162.1800	46.08	-43.63	35.65	-57.15	-40.00	17.15	278	24	Horizontal
2	8428.55	39.61	-41.49	36.59	-60.56	-40.00	20.56	148	359	Horizontal
3	9648.125	36.13	-39.33	37.53	-60.93	-40.00	20.93	159	160	Horizontal
4	10743.2700	33.41	-37.92	38.57	-61.19	-40.00	21.19	186	47	Horizontal
5	14324.3600	30.26	-35.67	41.03	-59.64	-40.00	19.64	263	24	Horizontal
6	17905.4500	31.71	-34.75	46.38	-51.93	-40.00	11.93	261	127	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7162.1800	50.75	-43.63	35.65	-52.48	-40.00	12.48	248	1	Vertical
2	8404.975	39.27	-41.39	36.60	-60.78	-40.00	20.78	178	9	Vertical
3	9672.85	36.07	-39.40	37.58	-61.02	-40.00	21.02	186	74	Vertical
4	10743.2700	33.64	-37.92	38.57	-60.96	-40.00	20.96	256	51	Vertical
5	14324.3600	29.61	-35.67	41.03	-60.29	-40.00	20.29	136	40	Vertical
6	17905.4500	31.57	-34.75	46.38	-52.07	-40.00	12.07	256	313	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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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 28012053 www.sgs.com.cn  
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 28012053 sgs.china@sgs.com

## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	43340	100RB#0	VN	NT	-3.60	-0.002357	PASS
Band42	20MHz	QPSK	43340	100RB#0	VL	NT	-4.50	-0.002356	PASS
Band42	20MHz	QPSK	43340	100RB#0	VH	NT	-0.40	-0.000536	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	43340	100RB#0	NV	-30	-1.50	-0.004126	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	-20	-2.20	-0.003327	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	-10	-2.50	-0.005624	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	0	-3.60	-0.004526	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	10	-3.90	-0.003567	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	20	-3.90	-0.001359	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	30	-2.50	-0.004235	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	40	-6.60	-0.005423	PASS
Band42	20MHz	QPSK	43340	100RB#0	NV	50	4.20	0.003367	PASS

---End of Attachment---



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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn  
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com