Appendix B.20

LTE Band 71

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.21	20.96	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.84	20.59	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.72	20.47	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.77	19.52	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.70	20.45	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.83	20.58	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.74	20.49	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.87	19.62	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.64	20.39	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.75	20.50	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.65	20.40	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.69	19.44	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.70	19.45	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.82	19.57	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.72	19.47	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.74	18.49	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.95	19.70	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.12	19.87	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.00	19.75	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.79	18.54	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.62	19.37	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.76	19.51	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.67	19.42	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.73	18.48	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.24	20.99	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.15	20.90	34.77	PASS

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Band71	10MHz	QPSK	133172	1RB#49	22.77	20.52	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.82	19.57	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.69	20.44	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.92	20.67	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.81	20.56	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.90	19.65	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.66	20.41	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.82	20.57	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.63	20.38	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.69	19.44	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.18	19.93	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.78	19.53	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.74	19.49	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.84	18.59	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.90	19.65	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.07	19.82	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.00	19.75	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.83	18.58	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.83	19.58	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.87	19.62	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.82	19.57	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.68	18.43	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.23	20.98	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.21	20.96	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.81	20.56	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.76	19.51	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.63	20.38	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.78	20.53	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.79	20.54	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.89	19.64	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.60	20.35	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.70	20.45	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.65	20.40	34.77	PASS

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Band71	15MHz	QPSK	133397	75RB#0	21.66	19.41	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.10	19.85	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.82	19.57	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.72	19.47	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.72	18.47	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.84	19.59	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.99	19.74	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.94	19.69	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.85	18.60	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.92	19.67	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.99	19.74	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.96	19.71	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.64	18.39	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.20	20.95	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.43	21.18	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.83	20.58	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.61	19.36	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.70	20.45	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.91	20.66	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.72	20.47	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.93	19.68	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.53	20.28	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.83	20.58	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.54	20.29	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.58	19.33	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.25	20.00	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.89	19.64	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.87	19.62	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.56	18.31	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.84	19.59	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.03	19.78	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.98	19.73	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.90	18.65	34.77	PASS

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Band71	20MHz	16QAM	133372	1RB#0	21.66	19.41	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.83	19.58	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.71	19.46	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.63	18.38	34.77	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.56	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.70	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.50	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	8.02	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.64	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.22	13	PASS

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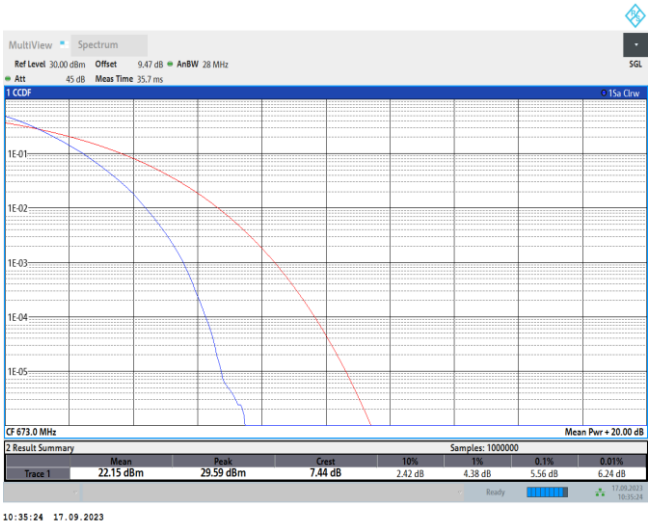
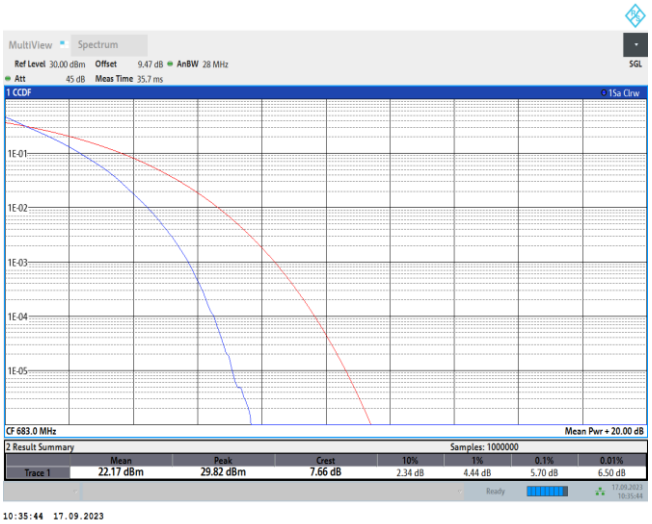
Test Graphs

Band71-20MHz-QPSK-133222-100RB#0



Band71-20MHz-QPSK-133322-100RB#0



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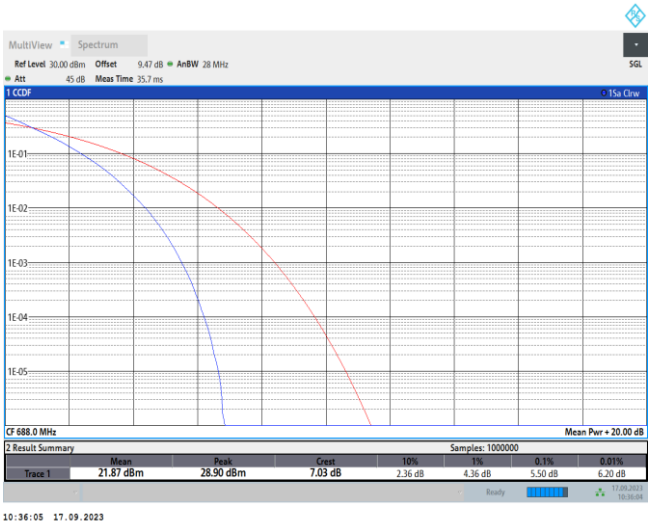
Band71-20MHz-QPSK-133372-100RB#0



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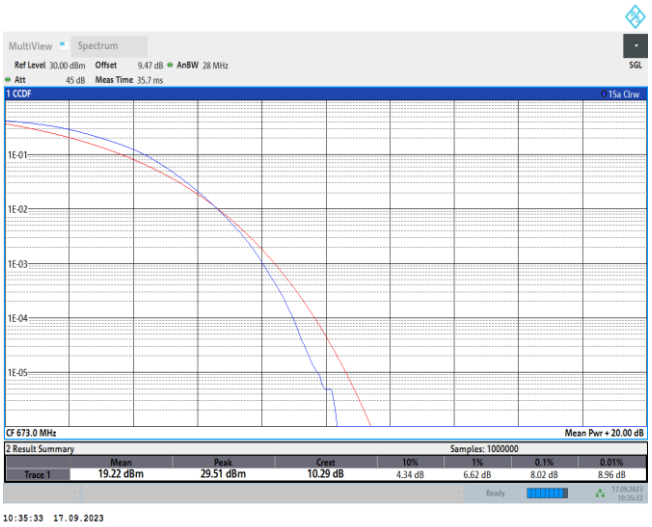

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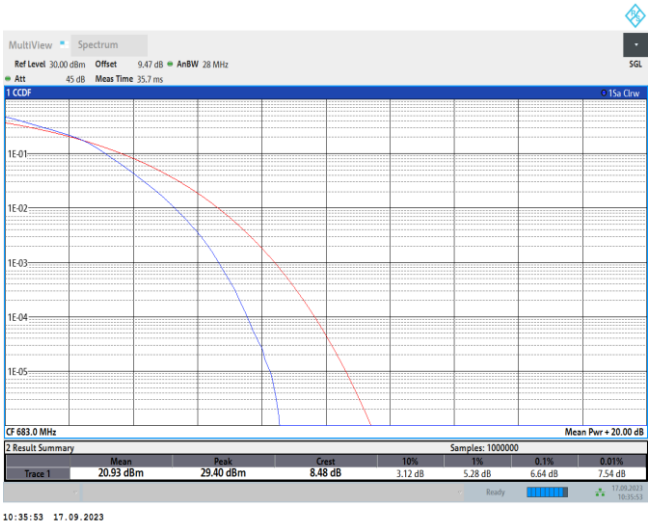
Band71-20MHz-16QAM-133322-100RB#0



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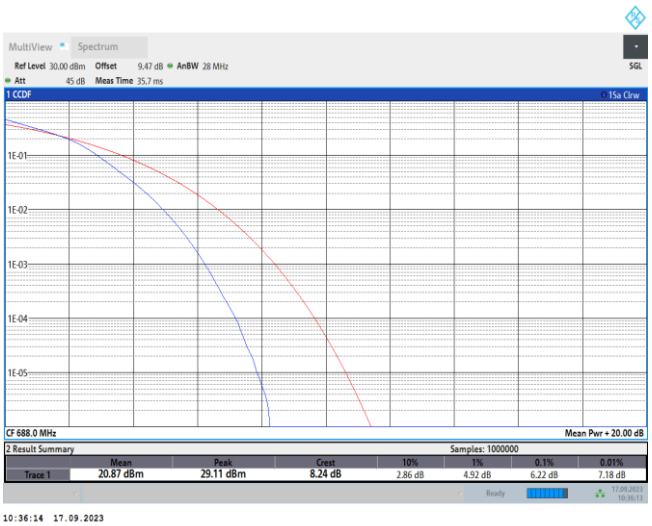

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.513	4.90	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.506	4.91	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.483	4.98	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	4.97	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.481	4.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.487	4.86	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.923	9.60	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.943	9.64	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.947	9.66	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.898	9.62	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.915	9.62	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.923	9.58	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.448	14.70	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.468	14.76	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.485	14.70	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.421	14.85	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.437	15.09	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.465	14.88	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.93	19.44	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.93	19.48	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.927	19.64	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.884	19.36	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.883	19.28	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.905	19.32	PASS

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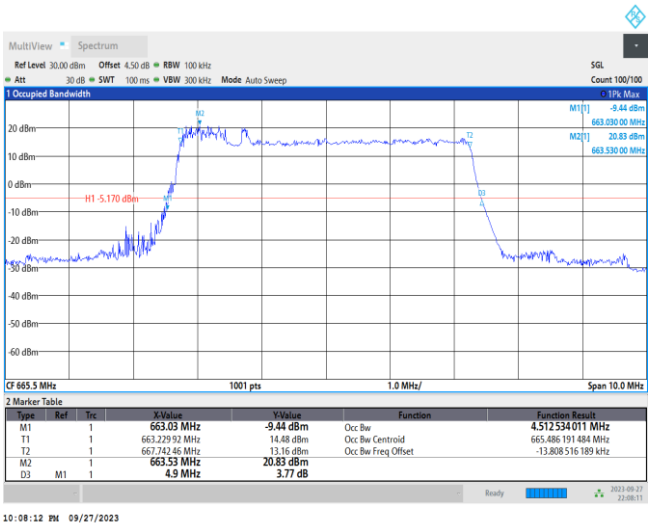
Test Graphs

Band71-5MHz-QPSK-133147-25RB#0



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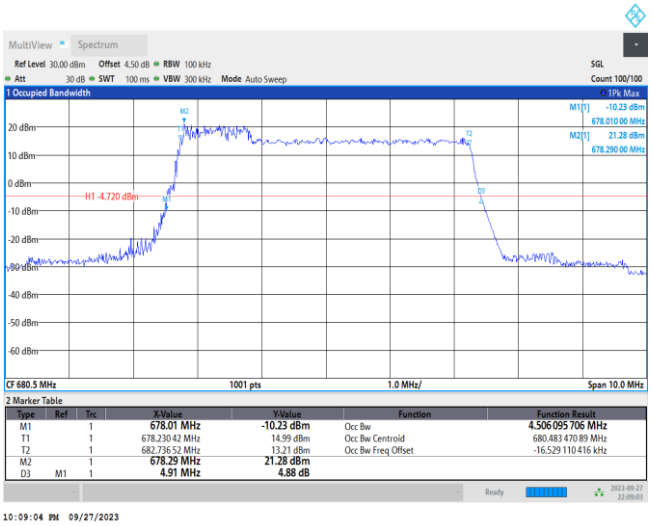

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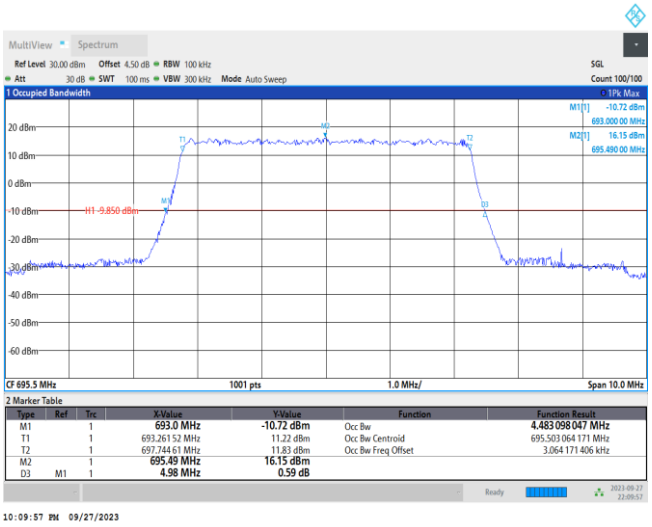
Band71-5MHz-QPSK-133447-25RB#0



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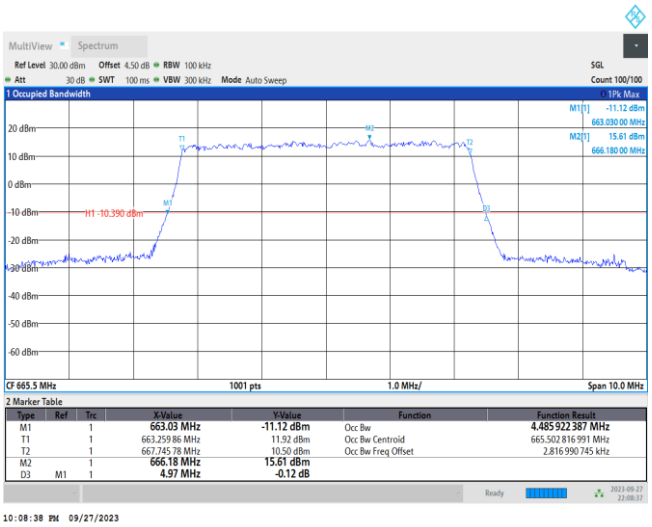

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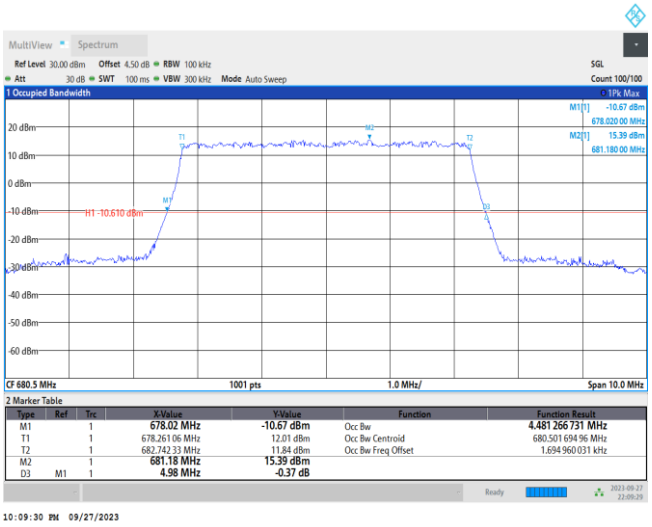
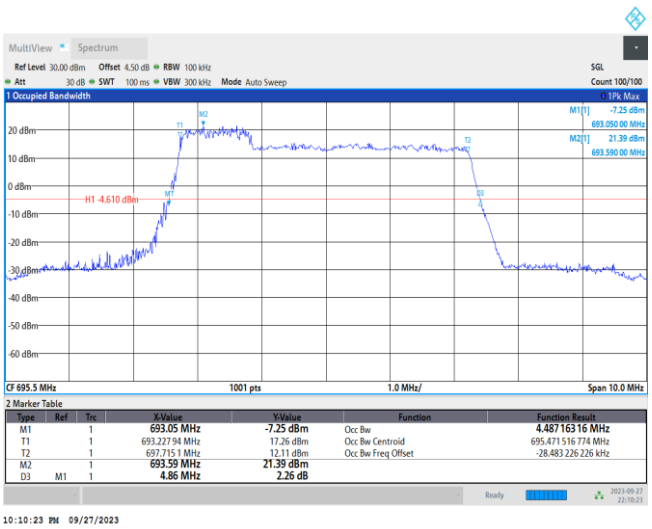
Band71-5MHz-16QAM-133297-25RB#0



Band71-5MHz-16QAM-133447-25RB#0



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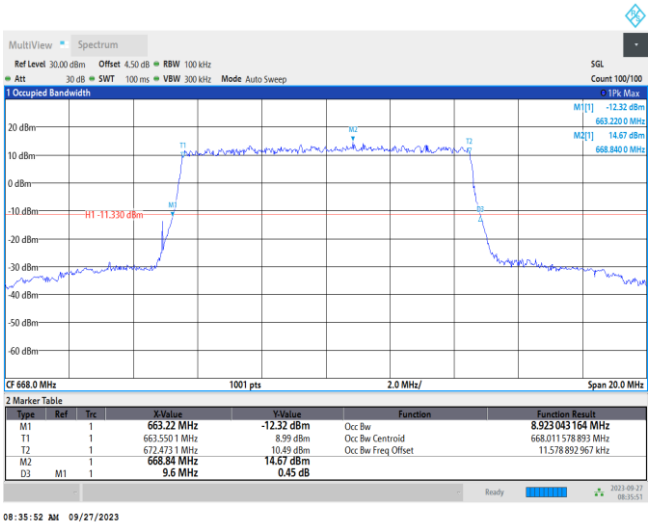
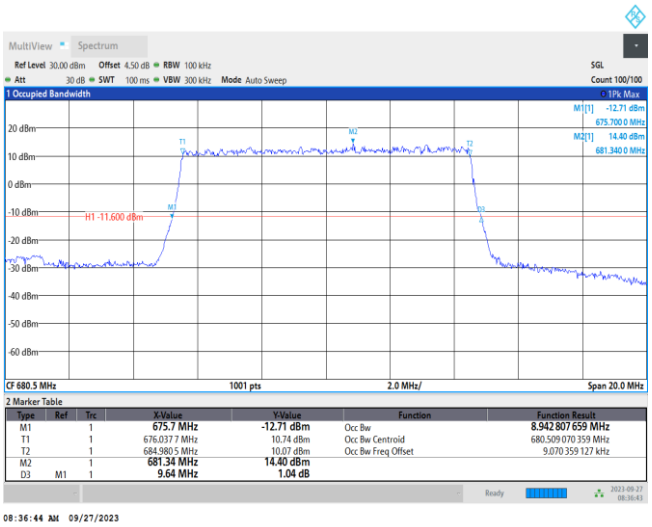
Band71-10MHz-QPSK-133172-50RB#0



Band71-10MHz-QPSK-133297-50RB#0



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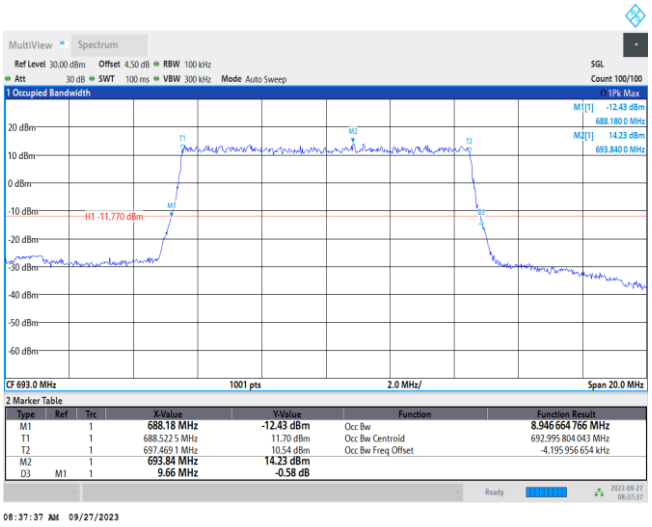
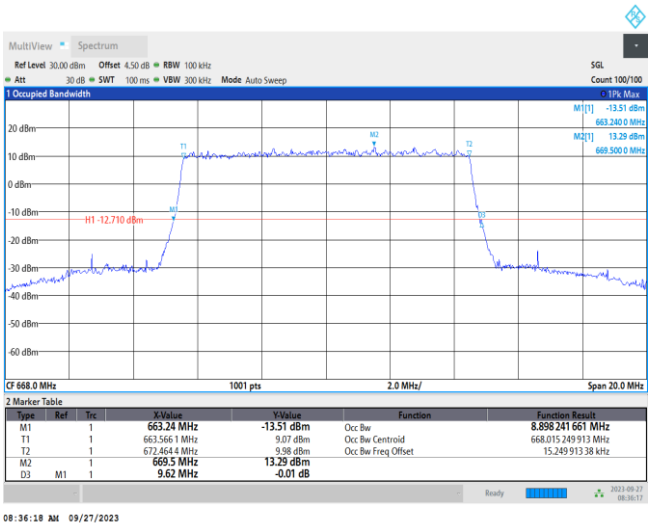


Band71-10MHz-16QAM-133172-50RB#0



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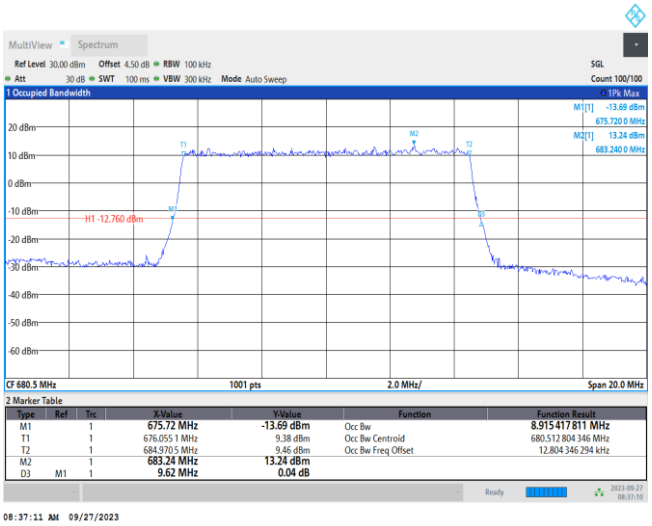
Band71-10MHz-16QAM-133297-50RB#0



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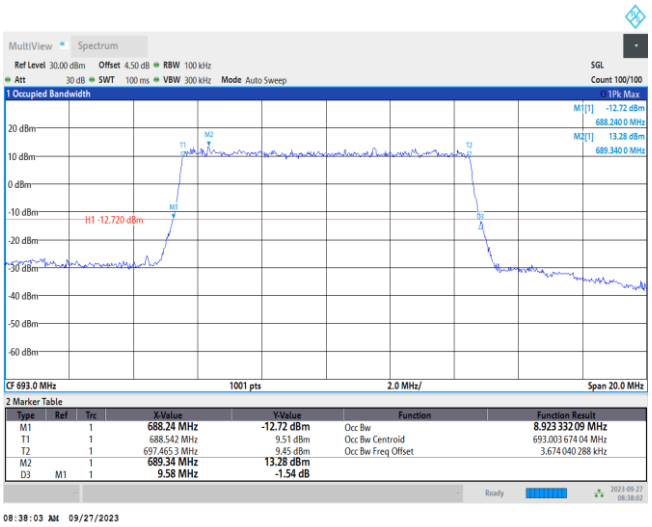

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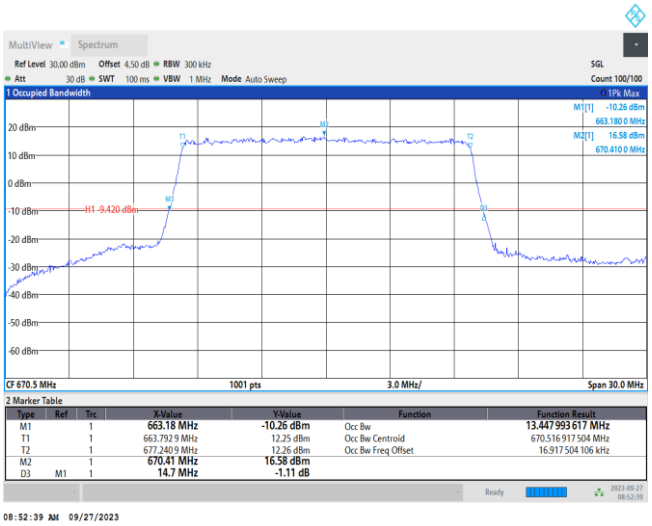
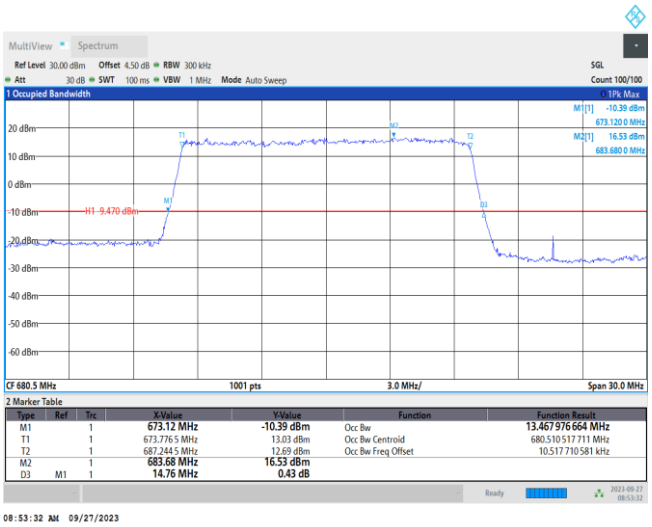
Band71-15MHz-QPSK-133197-75RB#0



Band71-15MHz-QPSK-133297-75RB#0



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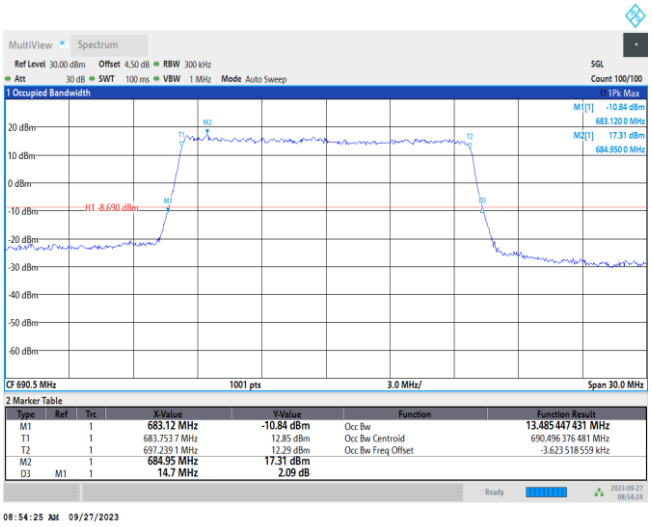
Band71-15MHz-QPSK-133397-75RB#0



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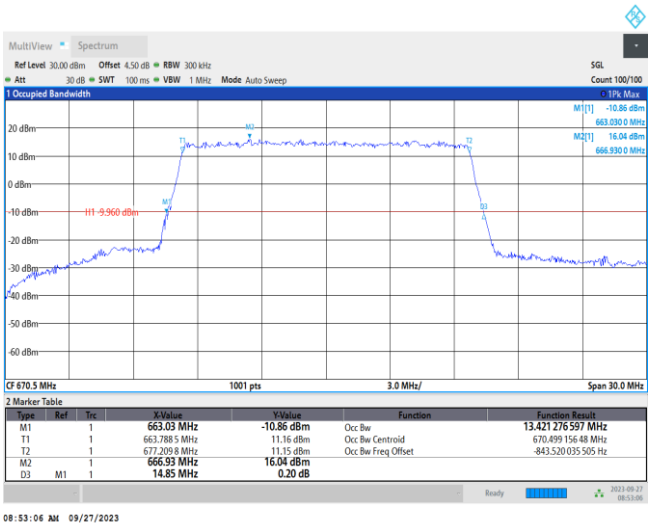

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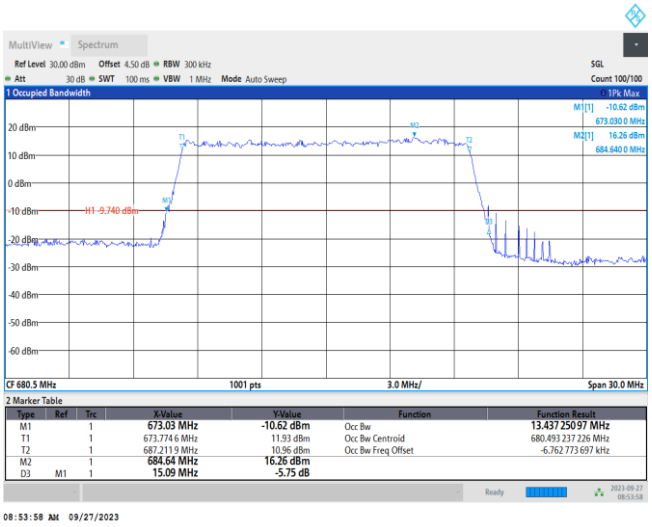
Band71-15MHz-16QAM-133297-75RB#0



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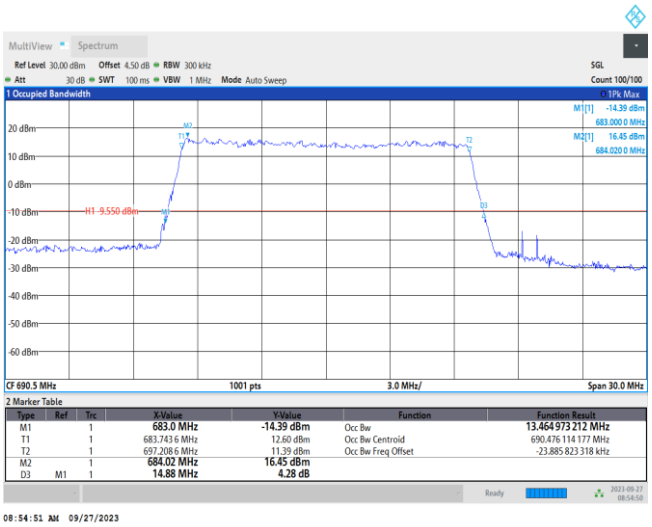

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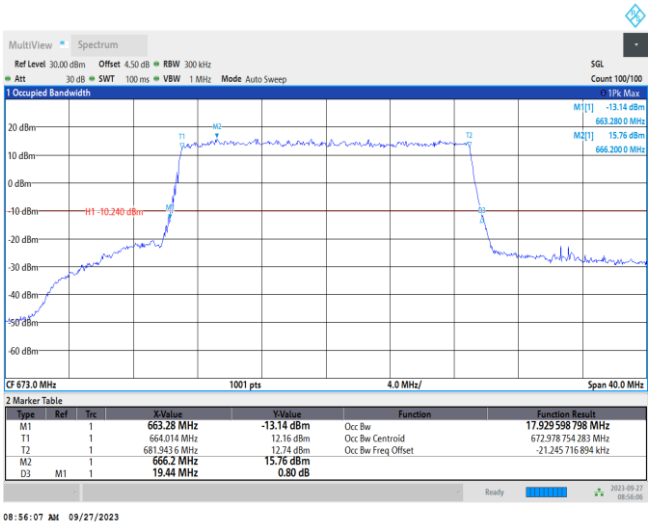
Band71-20MHz-QPSK-133222-100RB#0



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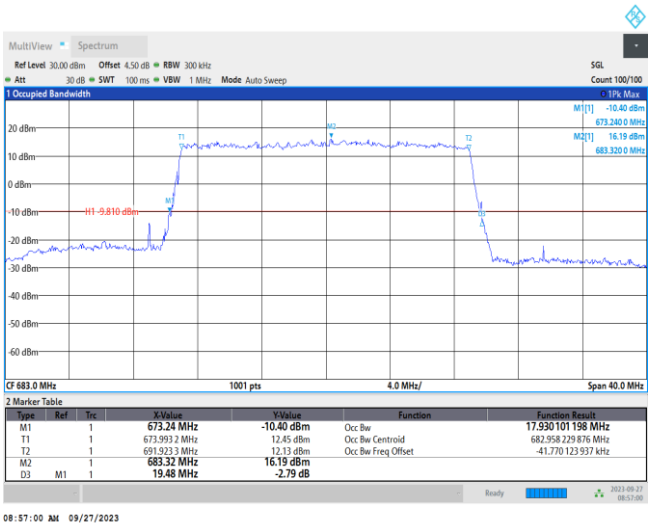

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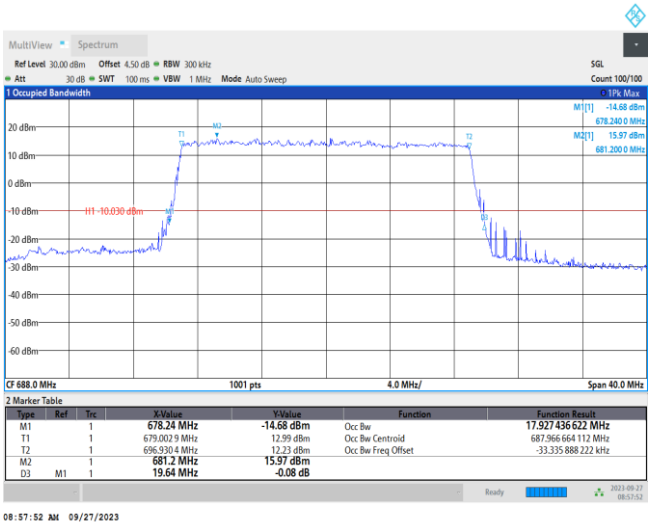
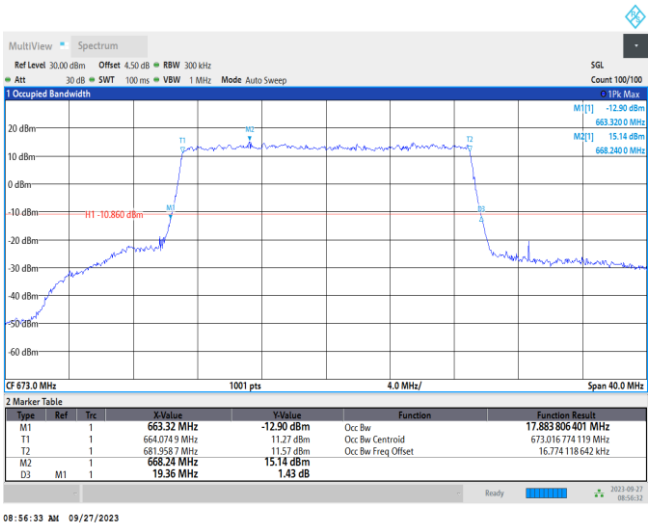
Band71-20MHz-QPSK-133372-100RB#0



Band71-20MHz-16QAM-133222-100RB#0



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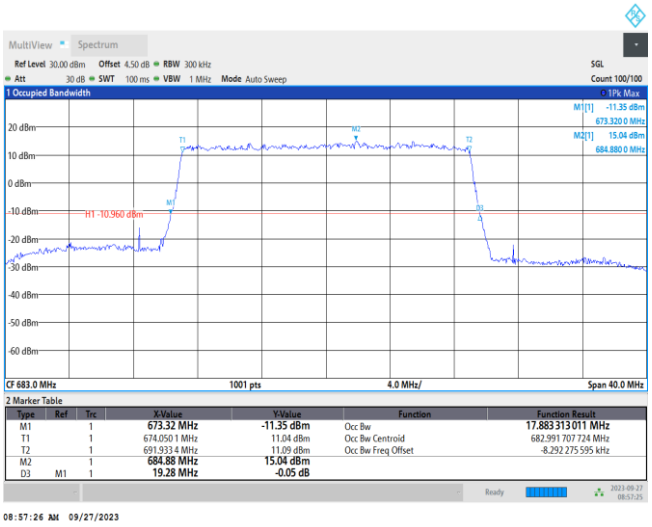
Band71-20MHz-16QAM-133322-100RB#0



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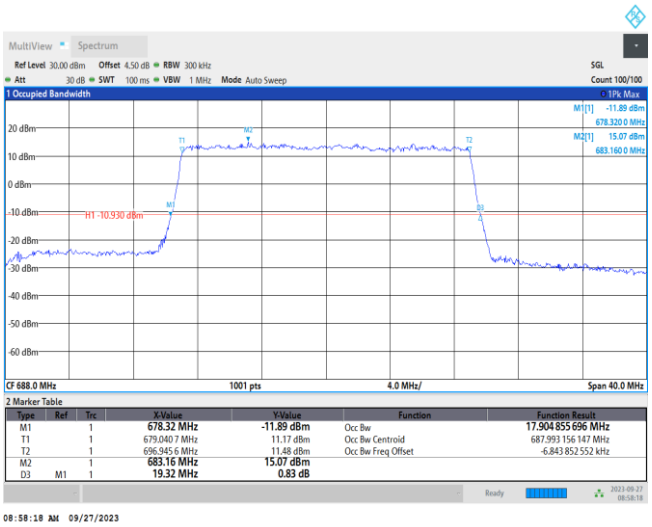

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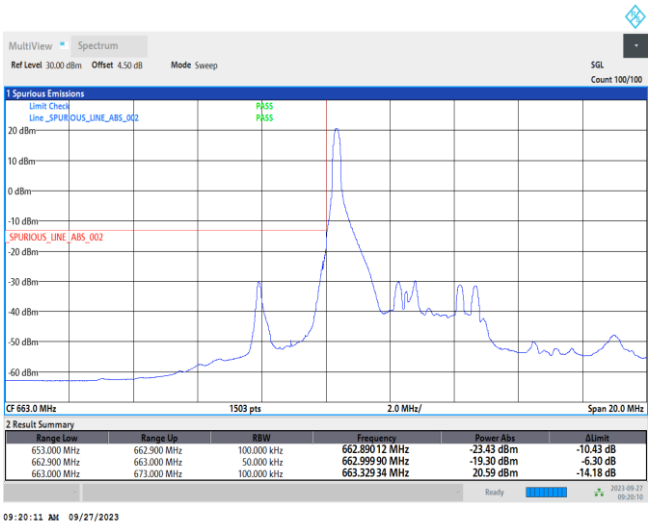
Band Edge

Test Graphs

Band71-5MHz-QPSK-133147-1RB#0



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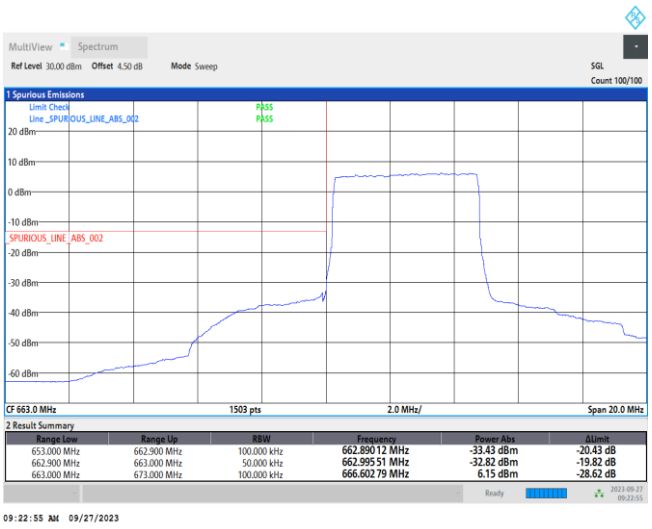

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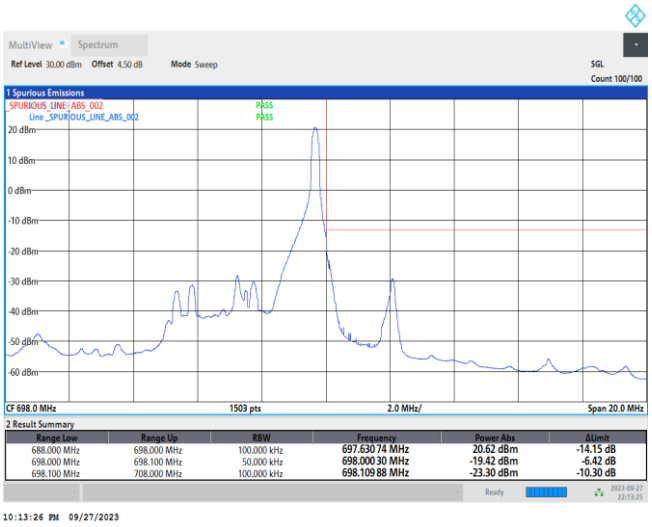
Band71-5MHz-QPSK-133447-1RB#24



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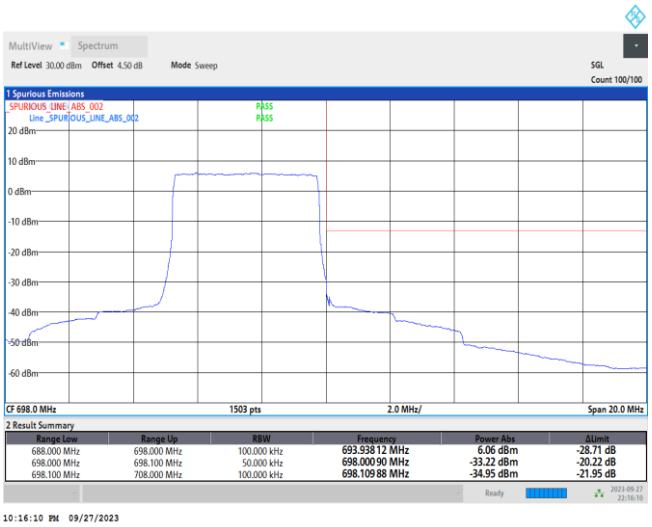

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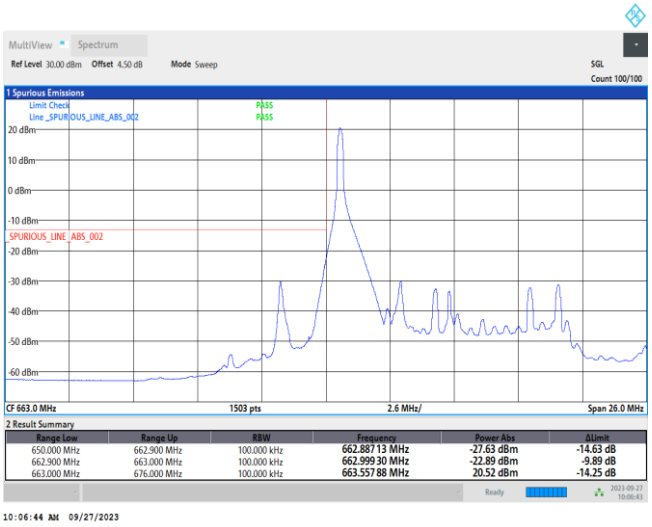
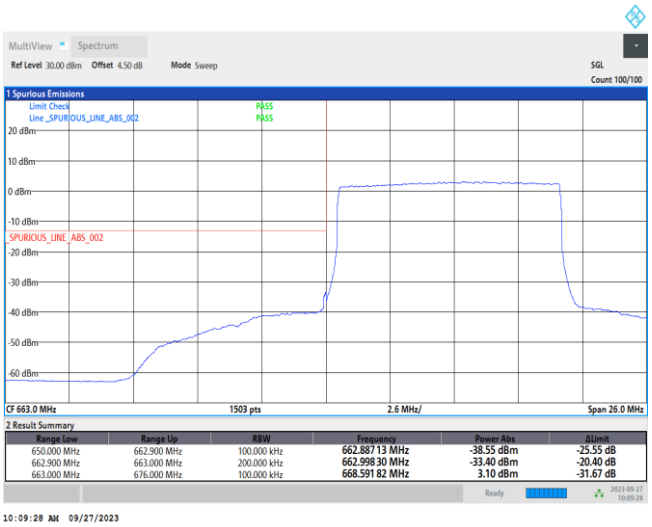
Band71-10MHz-QPSK-133172-1RB#0



Band71-10MHz-QPSK-133172-50RB#0



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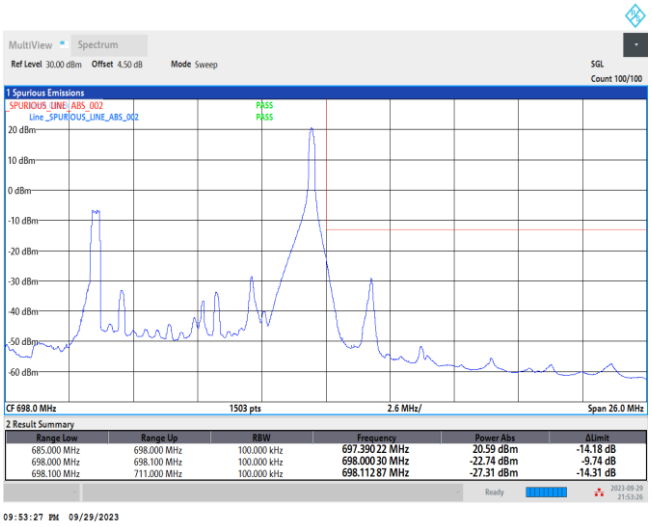
Band71-10MHz-QPSK-133422-1RB#49



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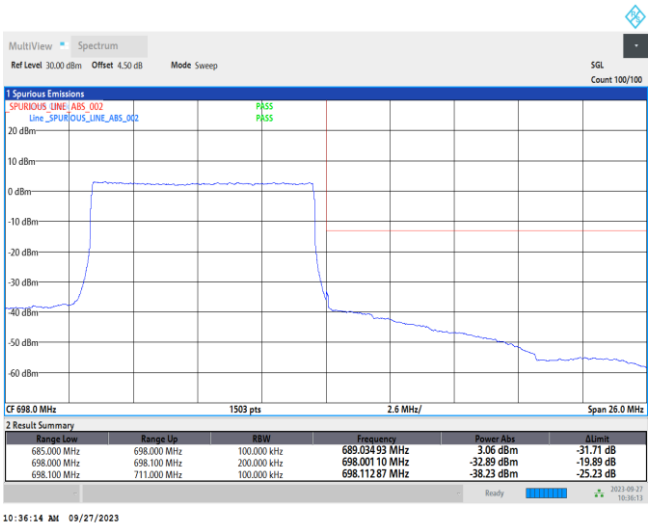

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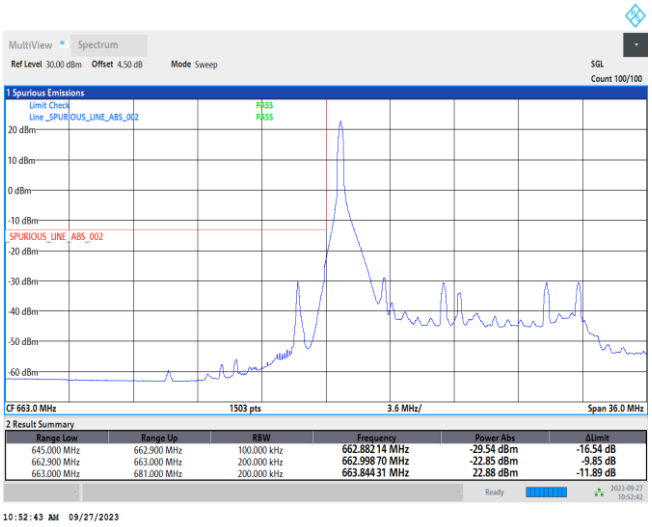
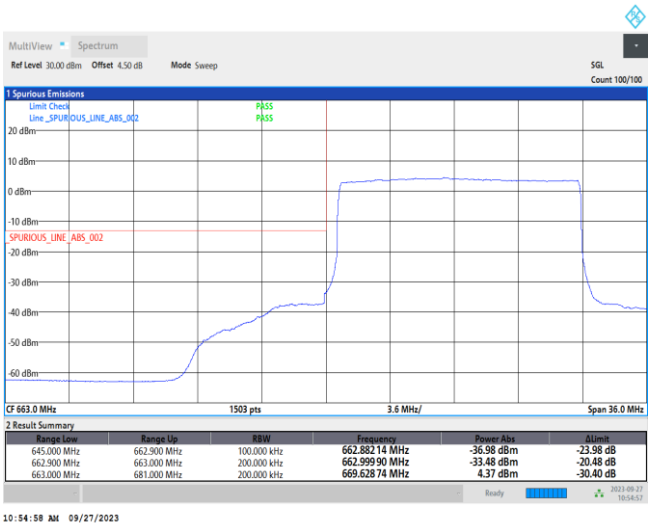
Band71-15MHz-QPSK-133197-1RB#0



Band71-15MHz-QPSK-133197-75RB#0



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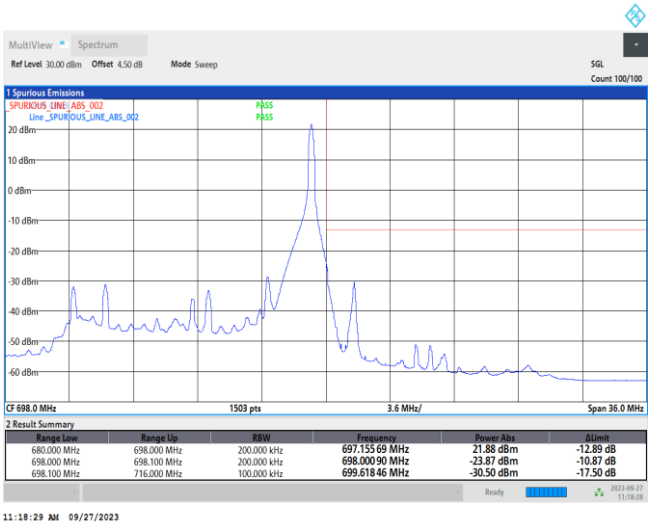
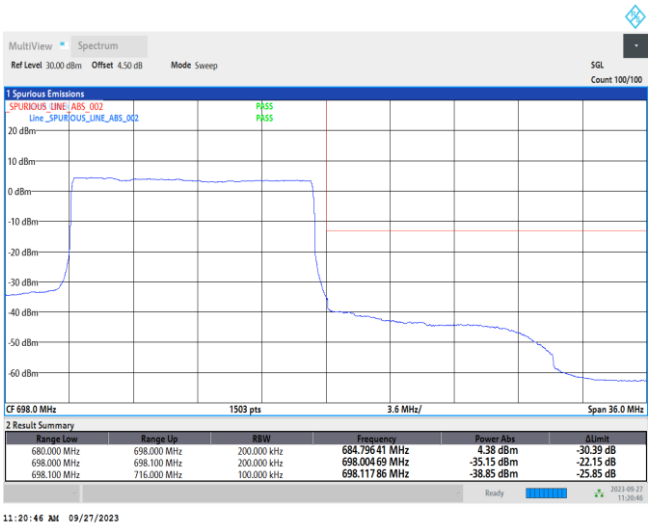
Band71-15MHz-QPSK-133397-1RB#74



Band71-15MHz-QPSK-133397-75RB#0



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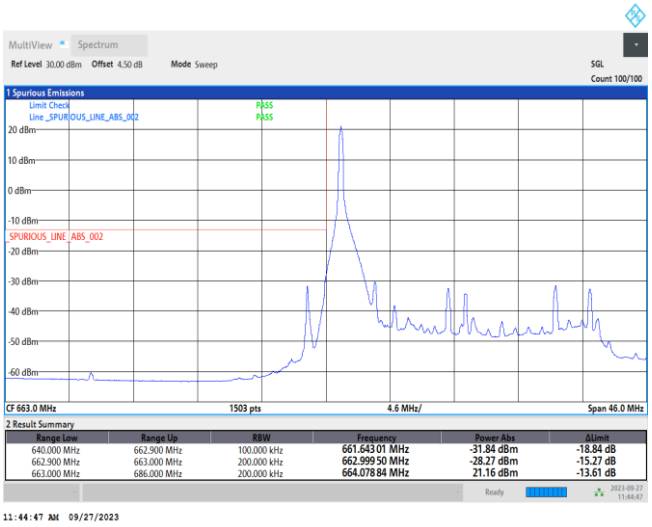
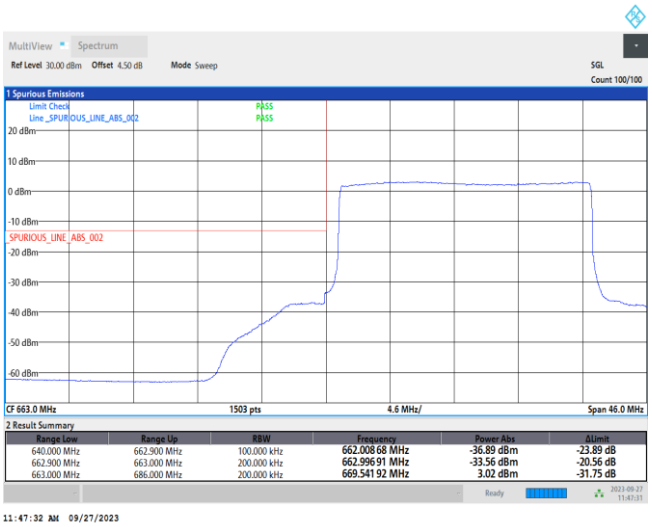
Band71-20MHz-QPSK-133222-1RB#0



Band71-20MHz-QPSK-133222-100RB#0



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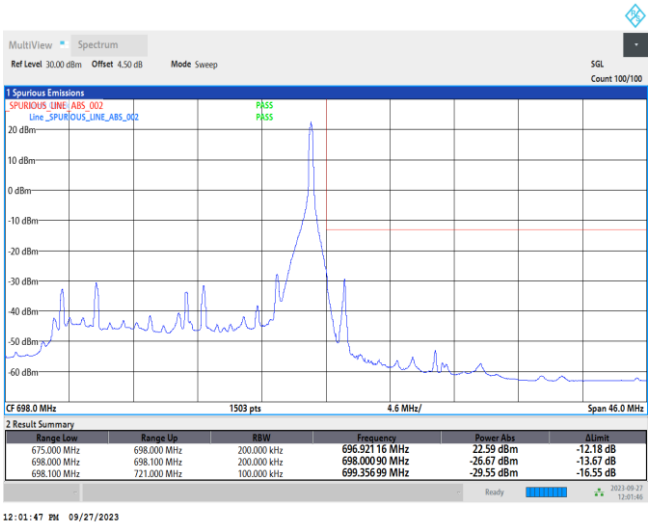
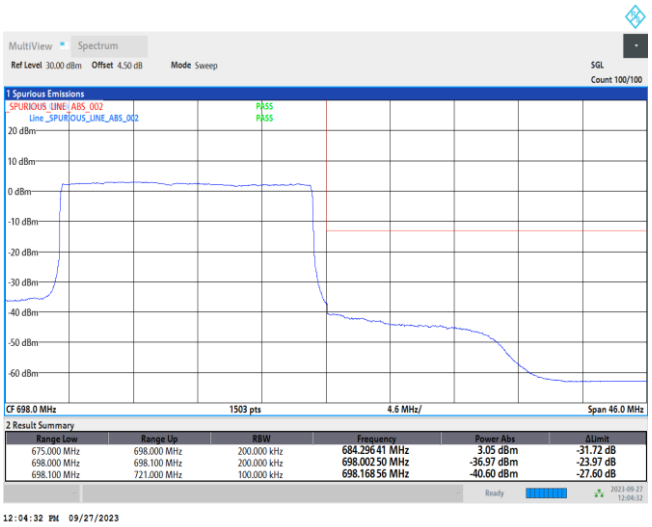
Band71-20MHz-QPSK-133372-1RB#99



Band71-20MHz-QPSK-133372-100RB#0



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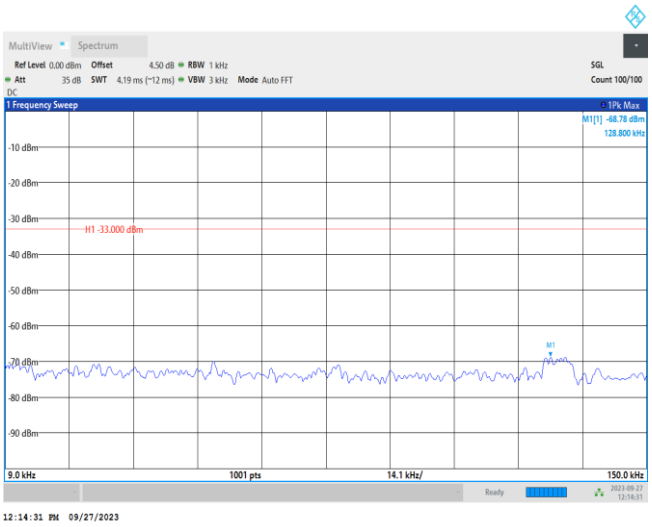
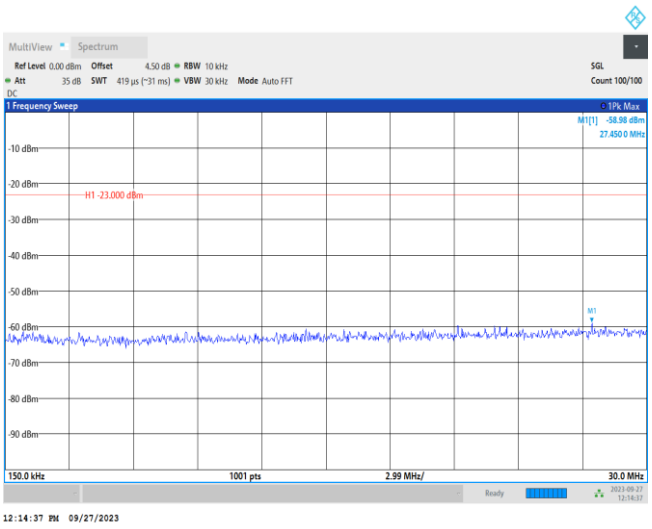
Conducted Spurious Emission

Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



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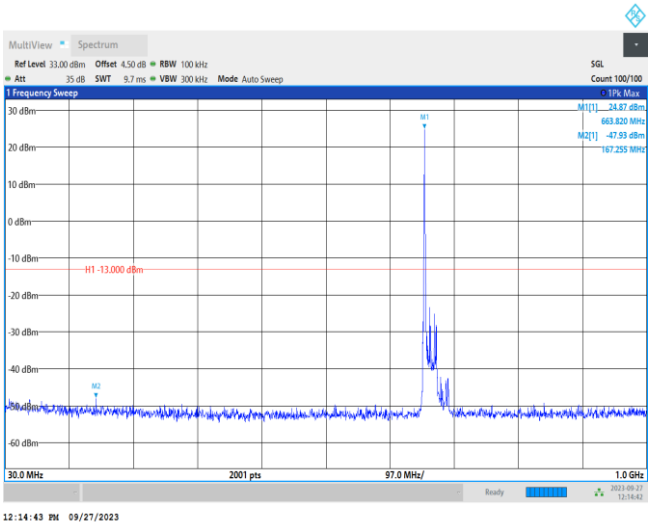
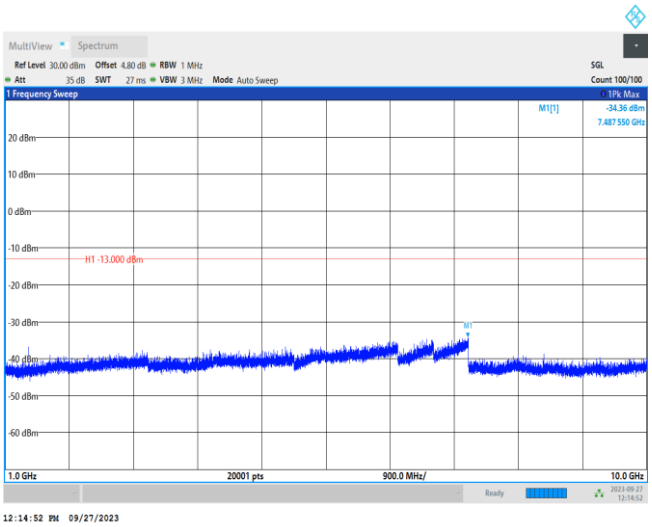
Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



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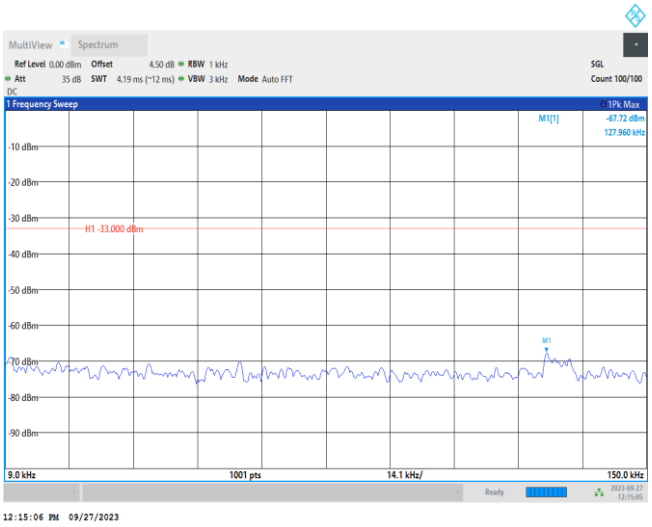
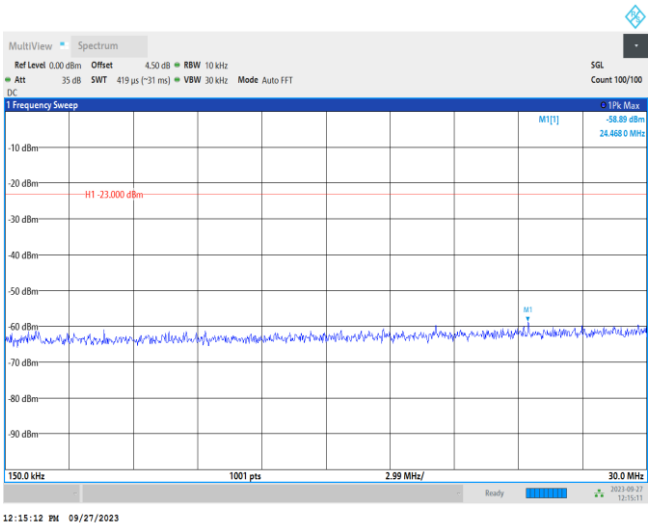
Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz



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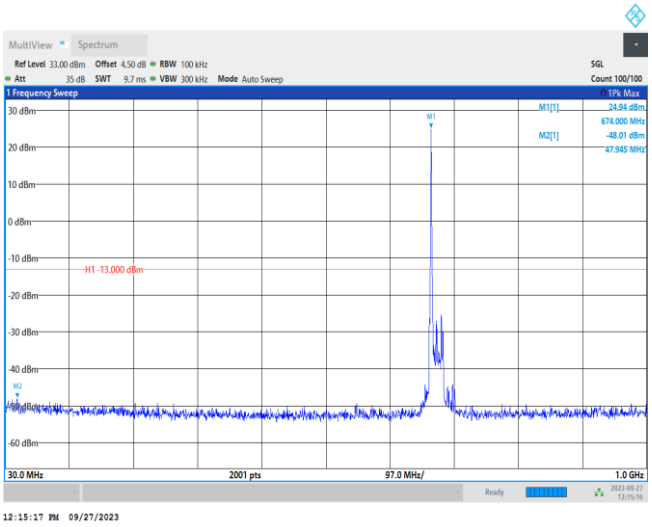
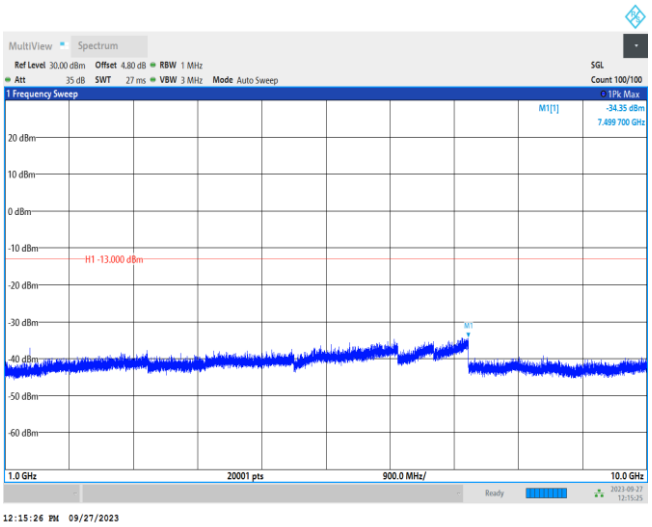
Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz



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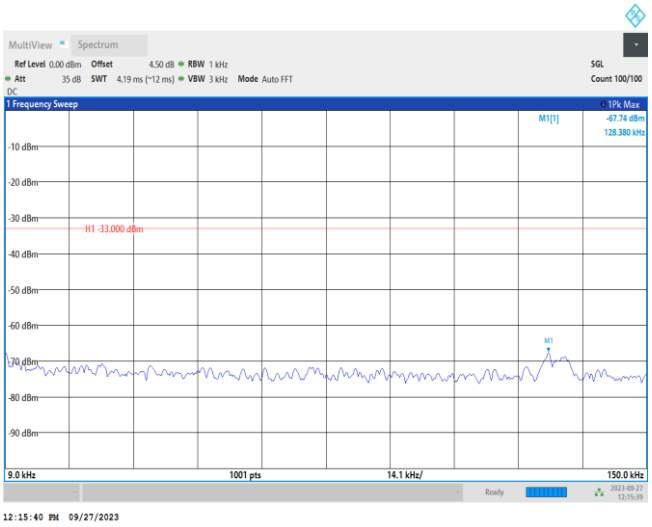
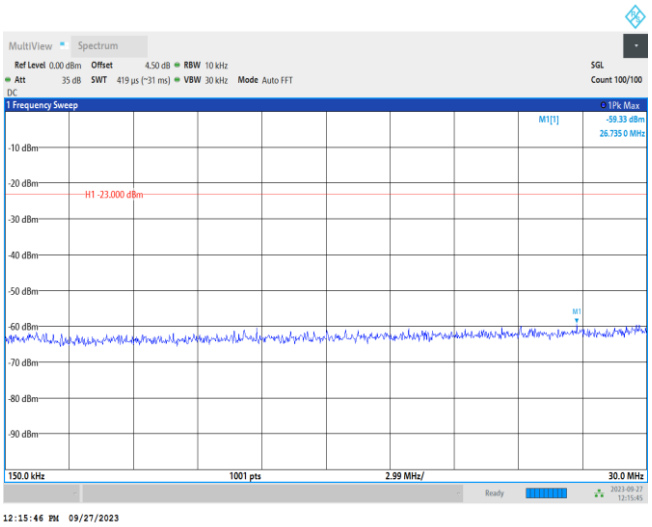
Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



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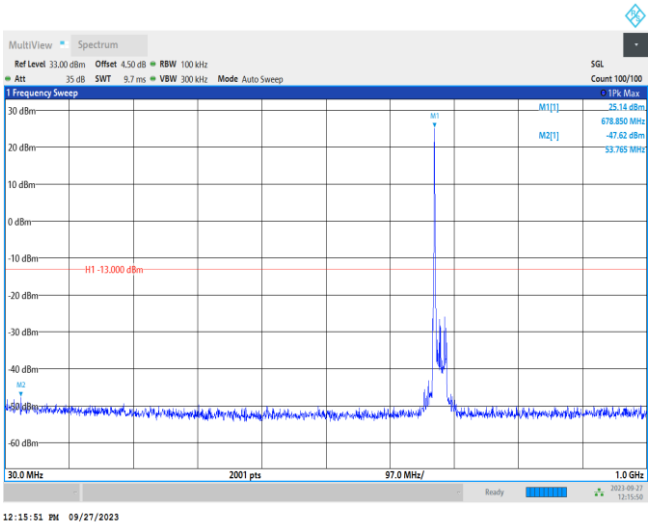
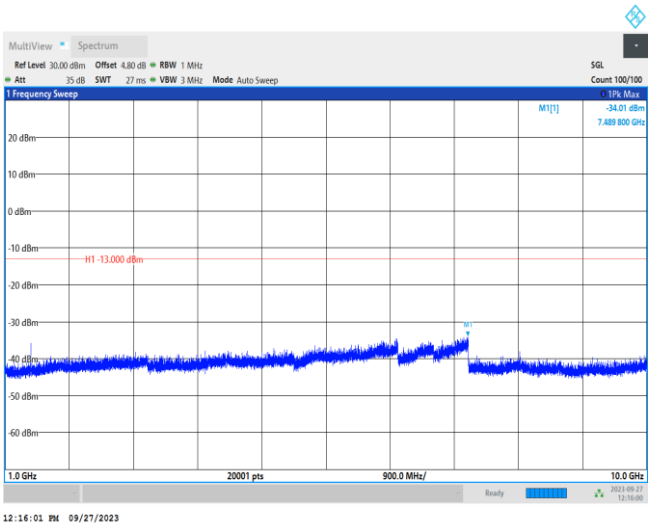
Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_71
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.35	-47.24	24.13	-64.02	-13.00	51.02	Horizontal
2	1328	57.80	-47.74	24.88	-60.32	-13.00	47.32	Horizontal
3	1905.5	53.00	-47.09	25.41	-63.94	-13.00	50.94	Horizontal
4	2681.5	54.69	-46.18	27.96	-58.79	-13.00	45.79	Horizontal
5	5524.5	50.11	-41.87	32.30	-54.72	-13.00	41.72	Horizontal
6	8475.5	42.81	-36.48	36.45	-52.48	-13.00	39.48	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	52.85	-47.24	24.13	-65.52	-13.00	52.52	Vertical
2	1328	60.12	-47.74	24.88	-58.00	-13.00	45.00	Vertical
3	2540.5	54.86	-46.48	27.80	-59.08	-13.00	46.08	Vertical
4	3944.5	46.58	-44.21	29.88	-63.01	-13.00	50.01	Vertical
5	5524.5	48.96	-41.87	32.30	-55.87	-13.00	42.87	Vertical
6	7394.5	43.46	-38.37	36.68	-53.49	-13.00	40.49	Vertical

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Test Band = LTE_71
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.13	-47.24	24.13	-63.24	-13.00	50.24	Horizontal
2	1343	53.78	-47.67	25.03	-64.12	-13.00	51.12	Horizontal
3	1766.5	57.56	-47.36	25.13	-59.93	-13.00	46.93	Horizontal
4	2823	54.95	-46.05	28.30	-58.06	-13.00	45.06	Horizontal
5	5524.5	50.16	-41.87	32.30	-54.67	-13.00	41.67	Horizontal
6	7382.5	43.75	-38.43	36.63	-53.31	-13.00	40.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.27	-47.24	24.13	-65.10	-13.00	52.10	Vertical
2	1343	55.82	-47.67	25.03	-62.08	-13.00	49.08	Vertical
3	1777.5	56.55	-47.35	25.22	-60.84	-13.00	47.84	Vertical
4	2540.5	55.17	-46.48	27.80	-58.77	-13.00	45.77	Vertical
5	5524.5	49.44	-41.87	32.30	-55.39	-13.00	42.39	Vertical
6	7405	43.43	-38.35	36.71	-53.47	-13.00	40.47	Vertical

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Test Band = LTE_71
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.68	-47.24	24.13	-63.69	-13.00	50.69	Horizontal
2	1358	57.07	-47.60	25.07	-60.72	-13.00	47.72	Horizontal
3	2046.5	53.18	-46.90	26.31	-62.67	-13.00	49.67	Horizontal
4	2681.5	54.69	-46.18	27.96	-58.79	-13.00	45.79	Horizontal
5	5524.5	50.15	-41.87	32.30	-54.68	-13.00	41.68	Horizontal
6	8481	42.70	-36.44	36.46	-52.54	-13.00	39.54	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.45	-47.24	24.13	-63.92	-13.00	50.92	Vertical
2	1358	57.31	-47.60	25.07	-60.48	-13.00	47.48	Vertical
3	2046.5	54.57	-46.90	26.31	-61.28	-13.00	48.28	Vertical
4	2540.5	55.36	-46.48	27.80	-58.58	-13.00	45.58	Vertical
5	5524.5	49.33	-41.87	32.30	-55.50	-13.00	42.50	Vertical
6	9913.5	41.77	-35.34	38.61	-50.22	-13.00	37.22	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

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-6.82	-0.009985	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-6.92	-0.010132	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-11.44	-0.016750	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-13.68	-0.020029	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-4.38	-0.006413	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-4.79	-0.007013	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-9.26	-0.013558	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-10.59	-0.015505	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-7.58	-0.011098	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-7.00	-0.010249	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-9.04	-0.013236	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-12.36	-0.018097	PASS

---End of Attachment---

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