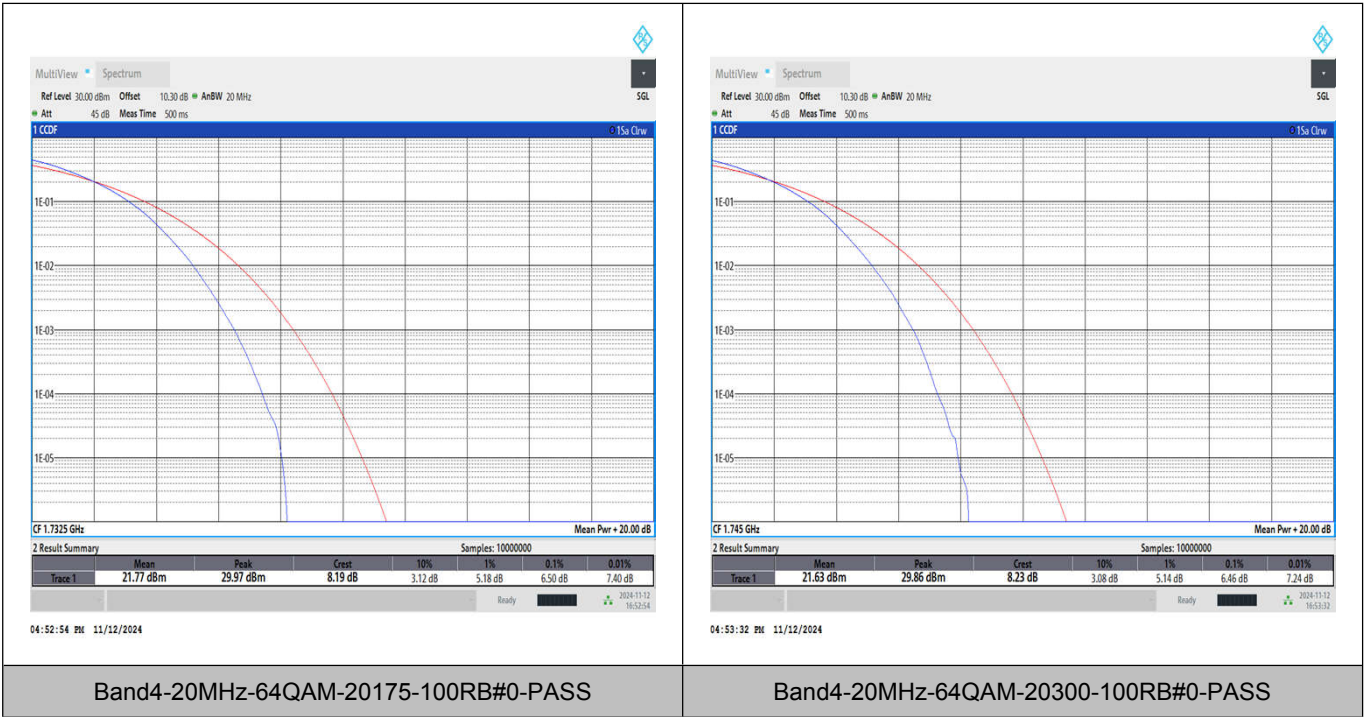




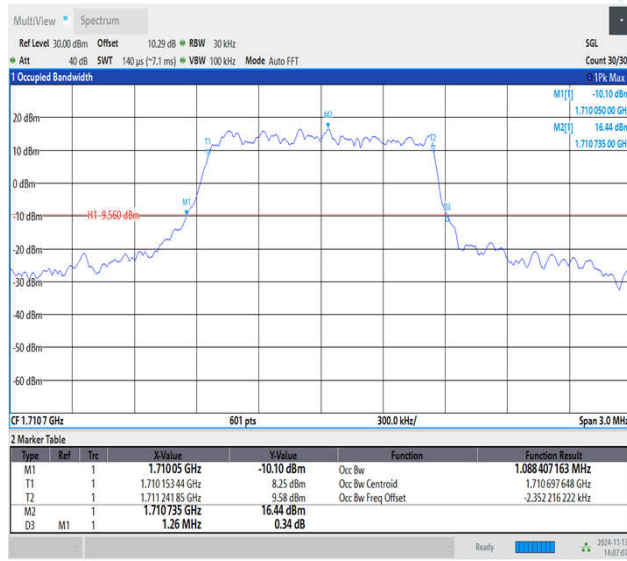
1.3 OCCUPIED BANDWIDTH

1.3.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.26	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.097	1.27	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.092	1.26	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.32	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.27	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.086	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.107	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.073	1.25	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.089	1.26	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.698	2.95	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.699	2.95	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.717	2.90	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.688	2.92	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.96	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.691	2.93	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.703	2.94	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.7	2.92	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.696	2.92	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.499	4.94	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.481	4.94	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.491	4.96	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.492	4.94	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.508	4.96	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.502	4.91	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.492	4.95	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.51	4.94	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.498	4.97	PASS

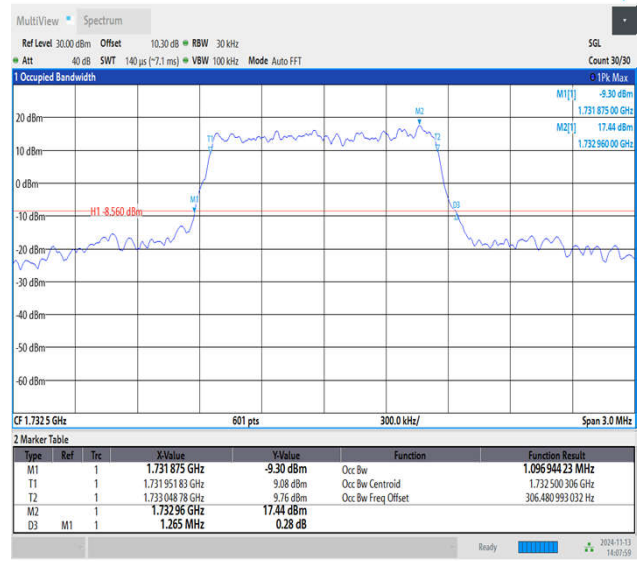
Band4	10MHz	QPSK	20000	50RB#0	8.954	9.70	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.944	9.57	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.955	9.77	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.917	9.67	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.985	9.70	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.959	9.60	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.951	9.63	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.944	9.90	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.972	9.57	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.46	14.35	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.412	14.45	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.431	14.30	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.431	14.40	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.387	14.25	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.41	14.40	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.417	14.55	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.409	14.20	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.358	14.35	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.963	19.27	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.884	19.13	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.856	19.27	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.892	19.20	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.838	19.07	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.835	19.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.924	19.20	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.901	19.27	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.891	19.13	PASS

1. 3. 2 Test Graphs



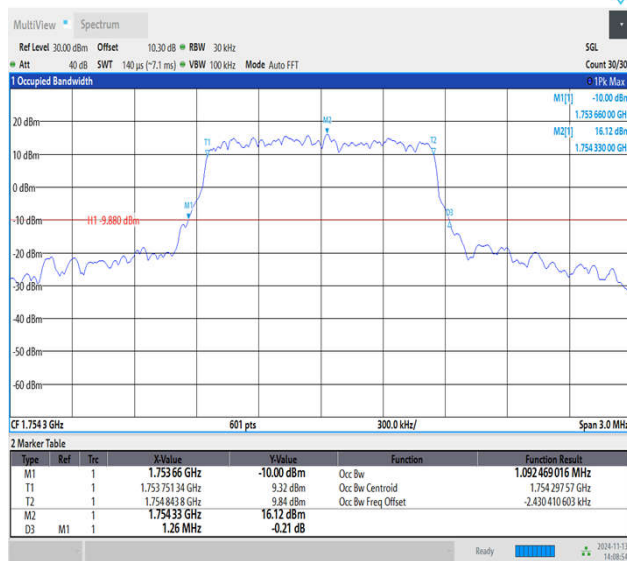
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Band4-1.4MHz-QPSK-19957-6RB#0-PASS



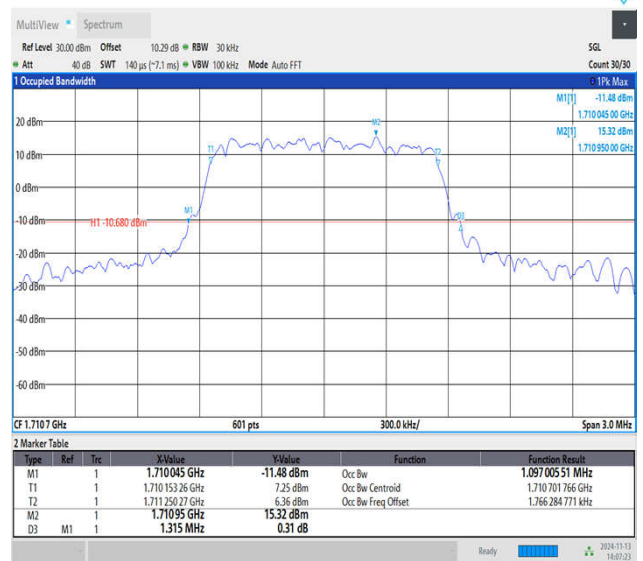
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Band4-1.4MHz-QPSK-20175-6RB#0-PASS



02:08:54 PM 11/13/2024

Band4-1.4MHz-QPSK-20393-6RB#0-PASS



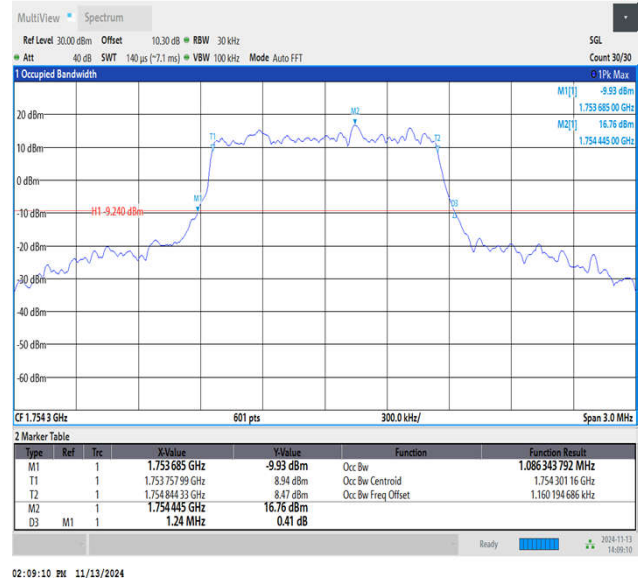
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Band4-1.4MHz-16QAM-19957-6RB#0-PASS



02:08:15 PM 11/13/2024

Band4-1.4MHz-16QAM-20175-6RB#0-PASS



02:09:10 PM 11/13/2024

Band4-1.4MHz-16QAM-20393-6RB#0-PASS



02:07:40 PM 11/13/2024

Band4-1.4MHz-64QAM-19957-6RB#0-PASS



02:08:32 PM 11/13/2024

Band4-1.4MHz-64QAM-20175-6RB#0-PASS



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.753 665 GHz	-9.00 dBm	Occ Bw	1.088 909 828 MHz
T1	1		1.753 757 04 GHz	7.59 dBm	Occ Bw Centroid	1.754 301 491 kHz
T2	1		1.754 845 95 GHz	9.65 dBm	Occ Bw Freq Offset	1.491 468 996 kHz
M2	1		1.753 915 GHz	17.17 dBm		
D3	M1	1	1.26 MHz	0.15 dB		

02:09:27 PM 11/13/2024

Band4-1.4MHz-64QAM-20393-6RB#0-PASS



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.710 03 GHz	-12.06 dBm	Occ Bw	2.697 522 783 MHz
T1	1		1.710 151 1 GHz	10.87 dBm	Occ Bw Centroid	1.711 499 839 kHz
T2	1		1.712 848 6 GHz	10.54 dBm	Occ Bw Freq Offset	-160.753 881 454 Hz
M2	1		1.710 41 GHz	14.69 dBm		
D3	M1	1	2.95 MHz	-0.70 dB		

02:12:26 PM 11/13/2024

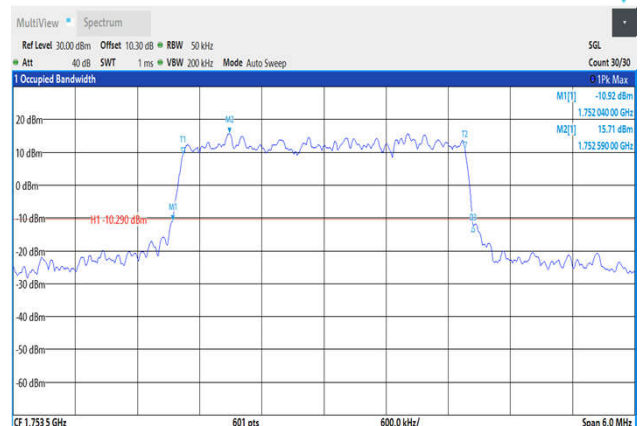
Band4-3MHz-QPSK-19965-15RB#0-PASS



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.730 99 GHz	-9.84 dBm	Occ Bw	2.698 941 748 MHz
T1	1		1.731 152 8 GHz	10.22 dBm	Occ Bw Centroid	1.732 502 299 kHz
T2	1		1.733 851 8 GHz	11.07 dBm	Occ Bw Freq Offset	2.299 466 402 kHz
M2	1		1.732 17 GHz	16.64 dBm		
D3	M1	1	2.95 MHz	-0.54 dB		

02:13:18 PM 11/13/2024

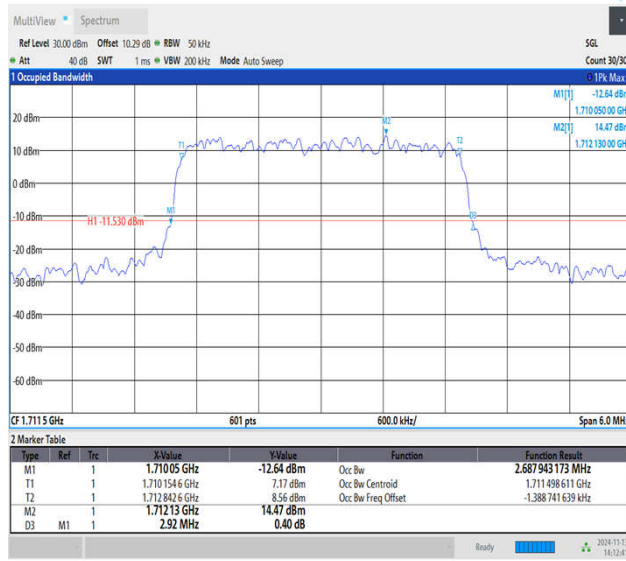
Band4-3MHz-QPSK-20175-15RB#0-PASS



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.732 04 GHz	-10.92 dBm	Occ Bw	2.716 791 094 MHz
T1	1		1.732 142 1 GHz	9.59 dBm	Occ Bw Centroid	1.753 500 529 kHz
T2	1		1.754 858 9 GHz	11.22 dBm	Occ Bw Freq Offset	529.396 092 892 Hz
M2	1		1.732 59 GHz	15.71 dBm		
D3	M1	1	2.9 MHz	-1.43 dB		

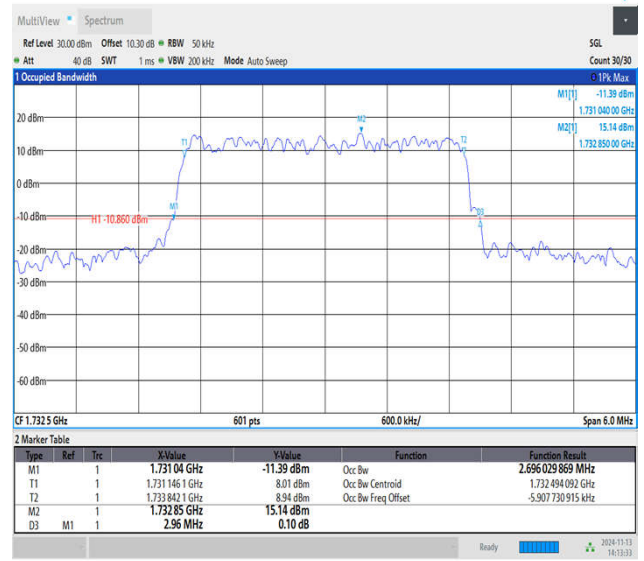
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Band4-3MHz-QPSK-20385-15RB#0-PASS



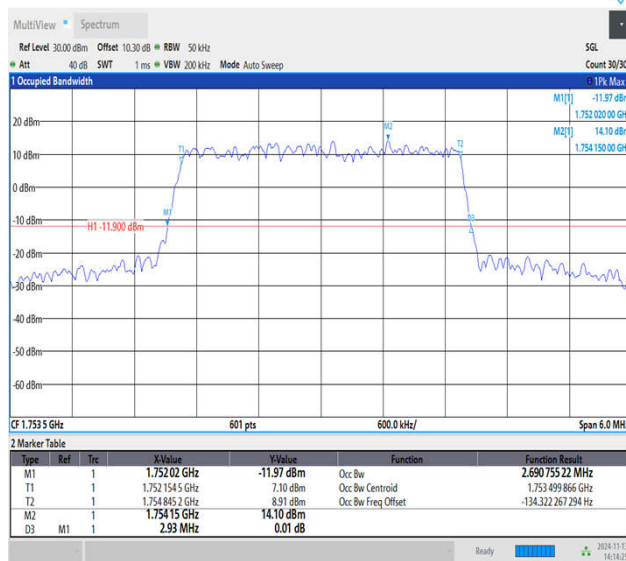
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Band4-3MHz-16QAM-19965-15RB#0-PASS



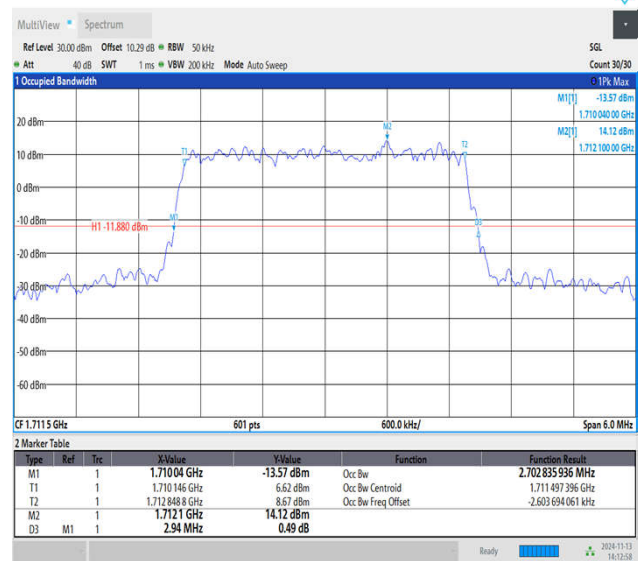
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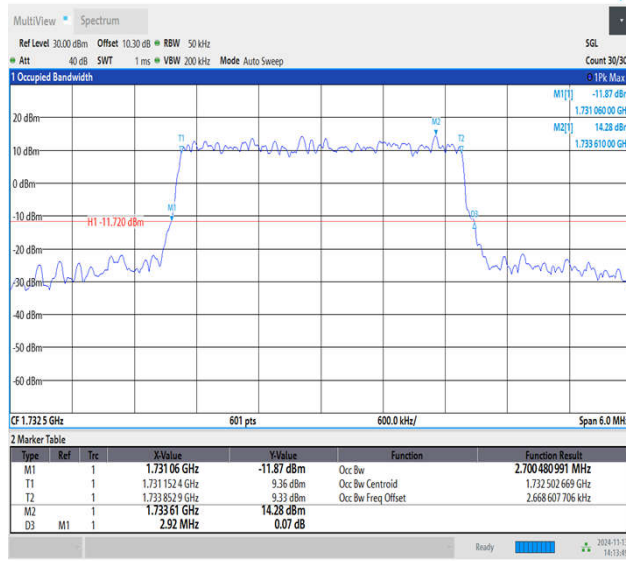
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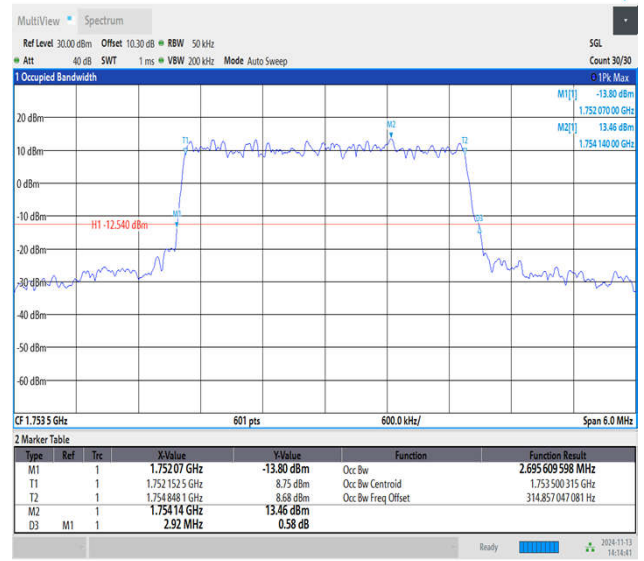
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Band4-3MHz-64QAM-19965-15RB#0-PASS



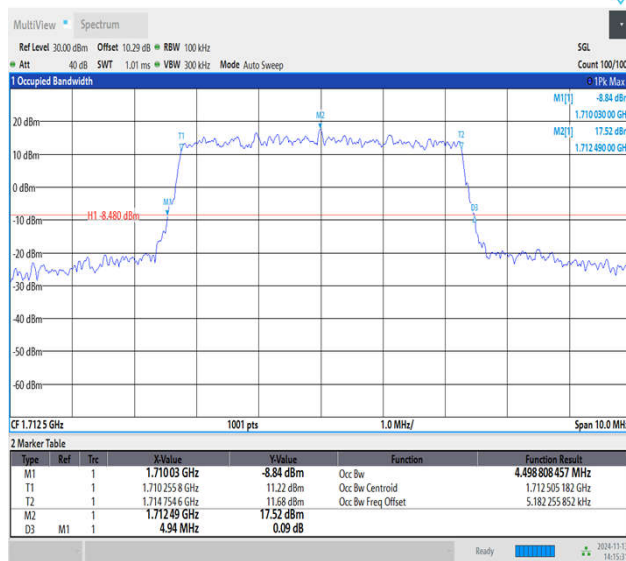
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Band4-3MHz-64QAM-20175-15RB#0-PASS



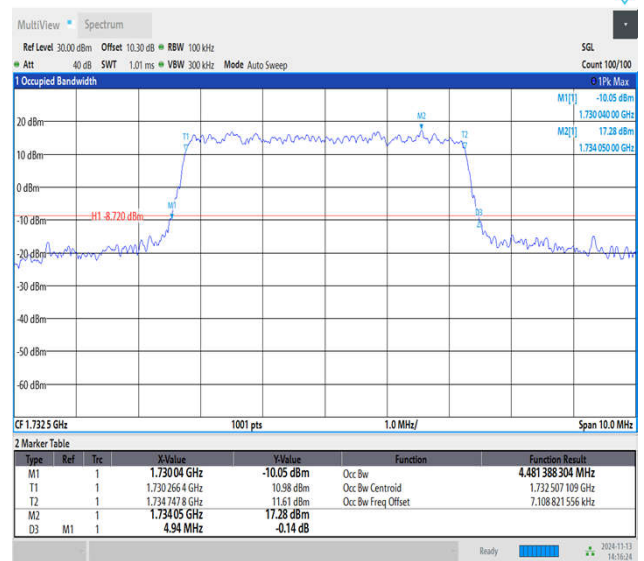
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Band4-3MHz-64QAM-20385-15RB#0-PASS



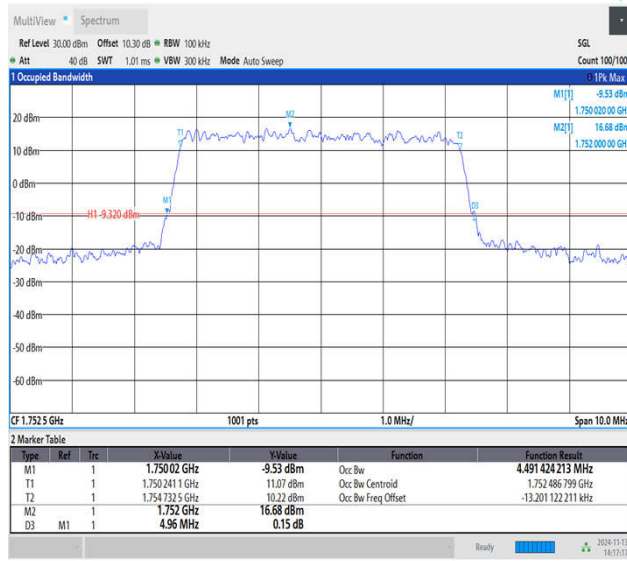
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Band4-5MHz-QPSK-19975-25RB#0-PASS



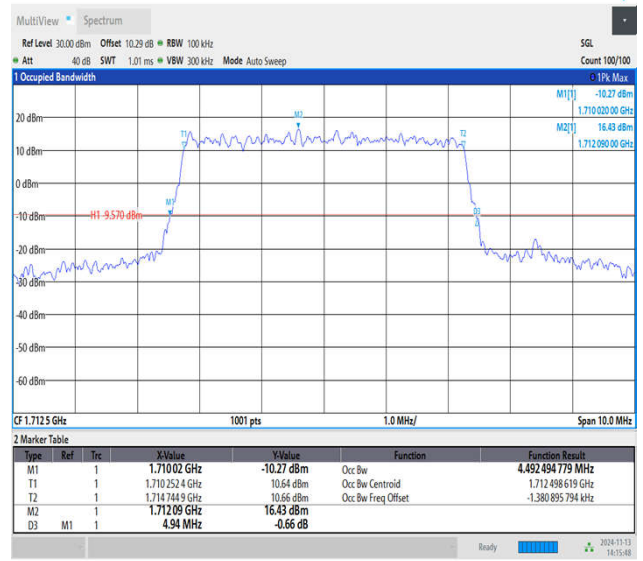
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Band4-5MHz-QPSK-20175-25RB#0-PASS



02:17:17 PM 11/13/2024

Band4-5MHz-QPSK-20375-25RB#0-PASS



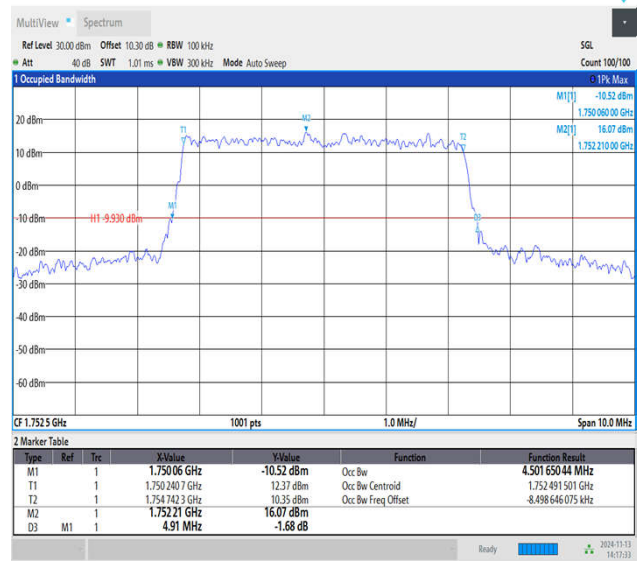
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Band4-5MHz-16QAM-19975-25RB#0-PASS



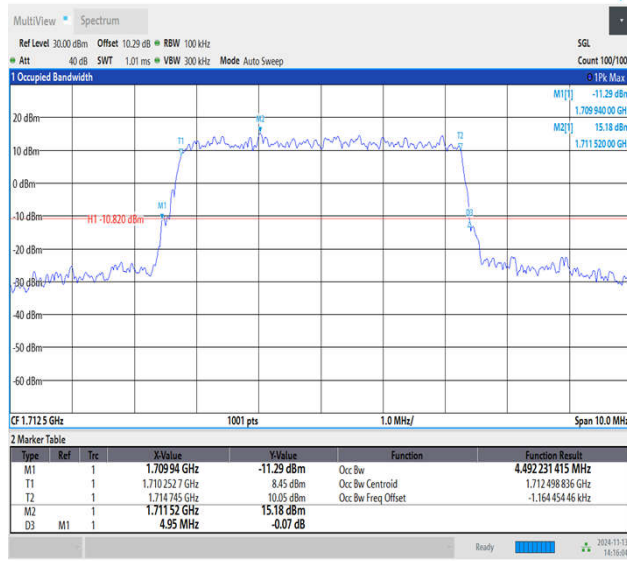
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Band4-5MHz-16QAM-20175-25RB#0-PASS



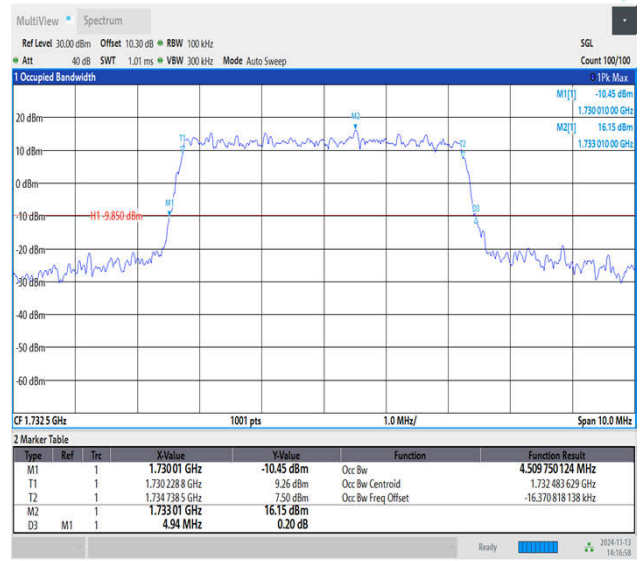
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Band4-5MHz-16QAM-20375-25RB#0-PASS



02:16:05 PM 11/13/2024

Band4-5MHz-64QAM-19975-25RB#0-PASS



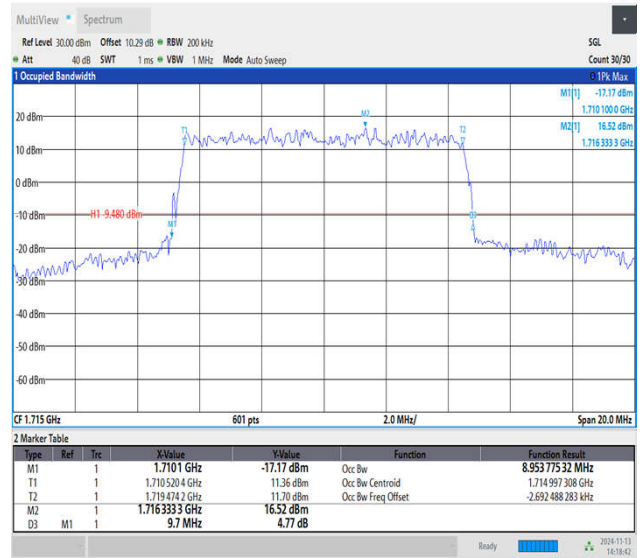
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Band4-5MHz-64QAM-20175-25RB#0-PASS



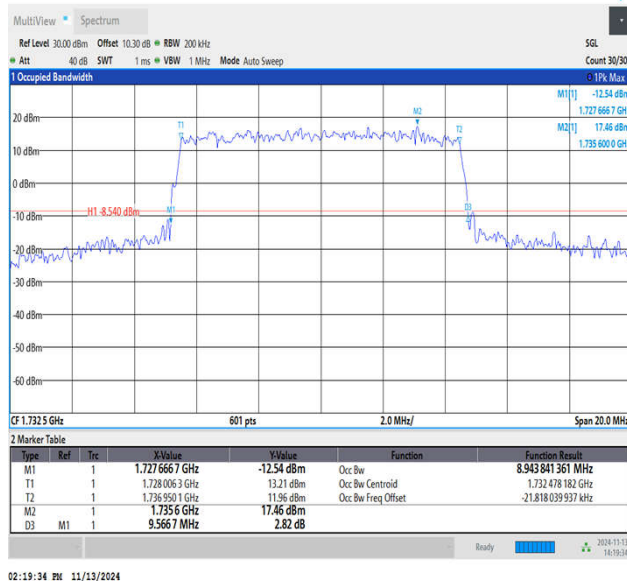
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Band4-5MHz-64QAM-20375-25RB#0-PASS



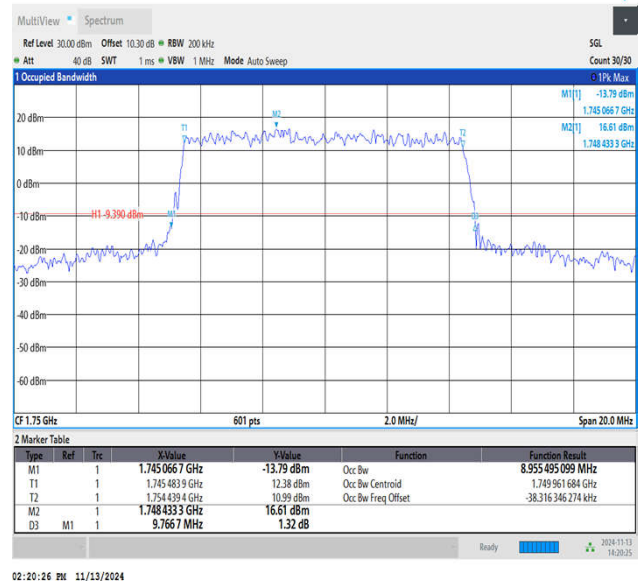
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Band4-10MHz-QPSK-20000-50RB#0-PASS



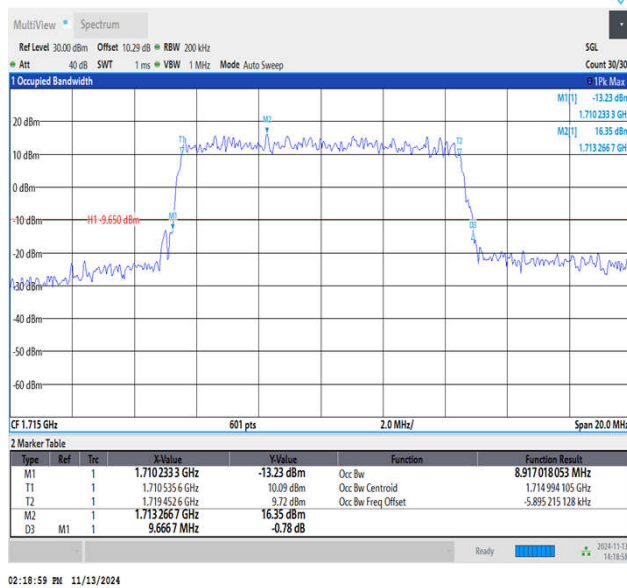
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Band4-10MHz-QPSK-20175-50RB#0-PASS



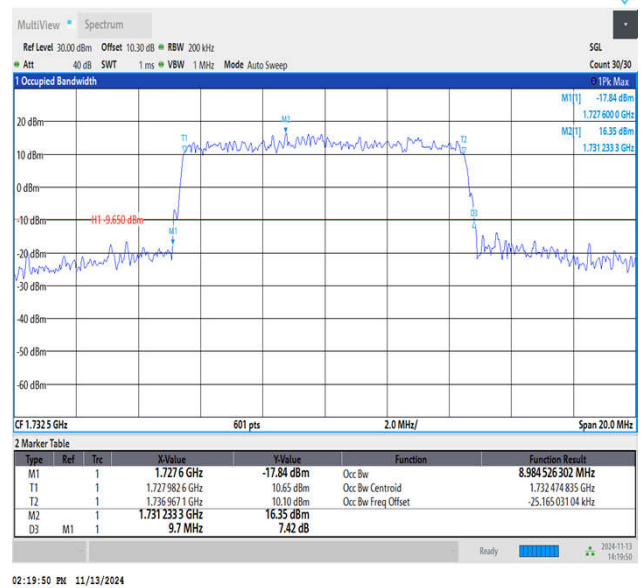
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Band4-10MHz-QPSK-20350-50RB#0-PASS



02:18:59 PM 11/13/2024

Band4-10MHz-16QAM-20000-50RB#0-PASS



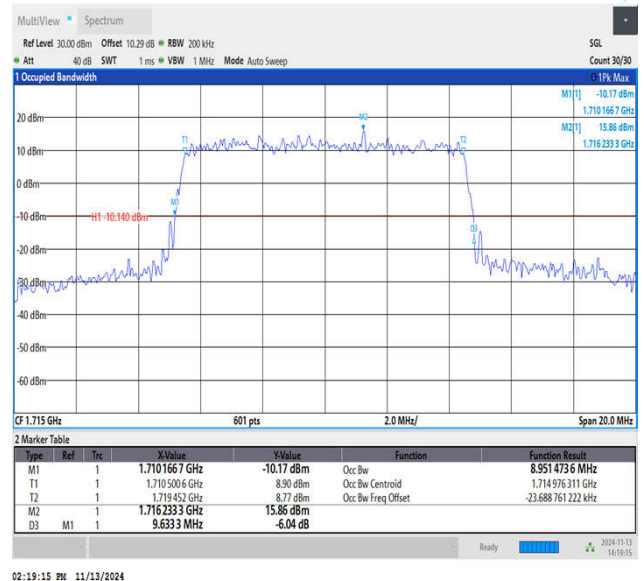
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Band4-10MHz-16QAM-20175-50RB#0-PASS



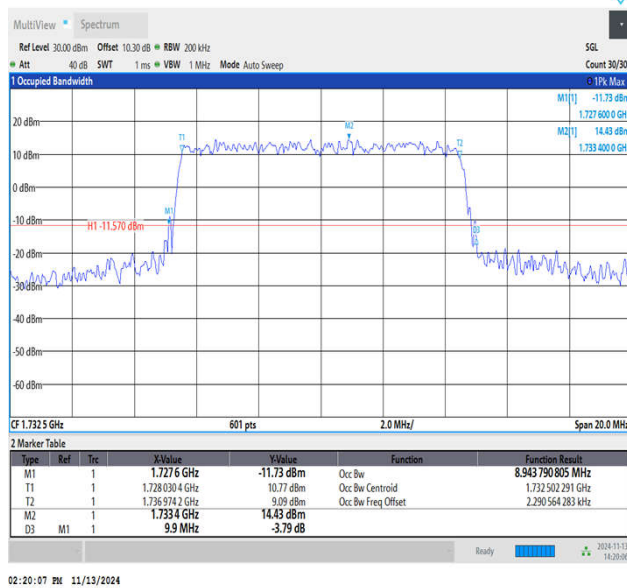
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Band4-10MHz-16QAM-20350-50RB#0-PASS



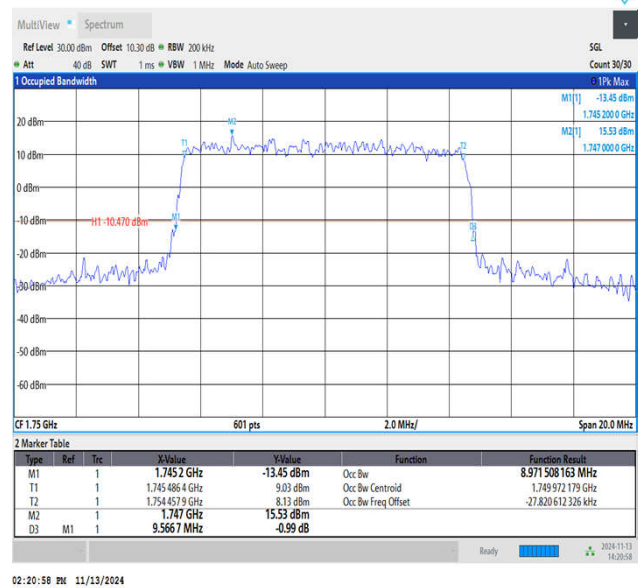
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Band4-10MHz-64QAM-20000-50RB#0-PASS



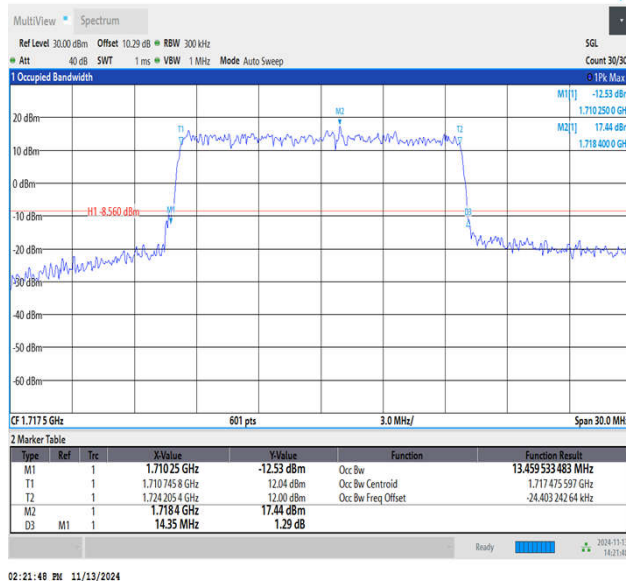
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Band4-10MHz-64QAM-20175-50RB#0-PASS

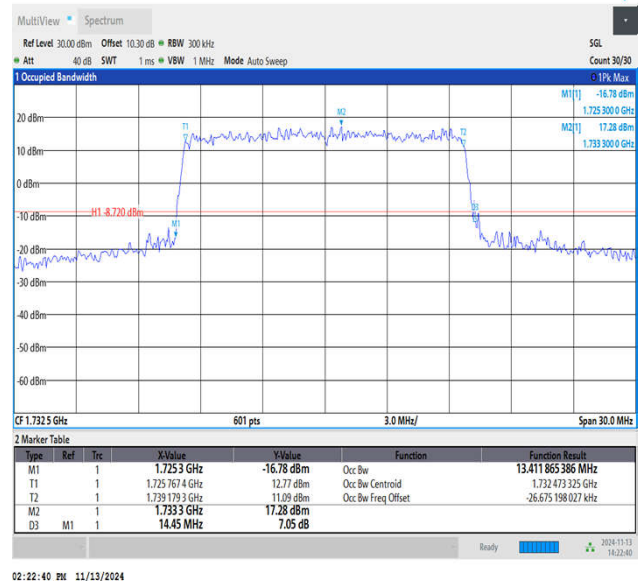


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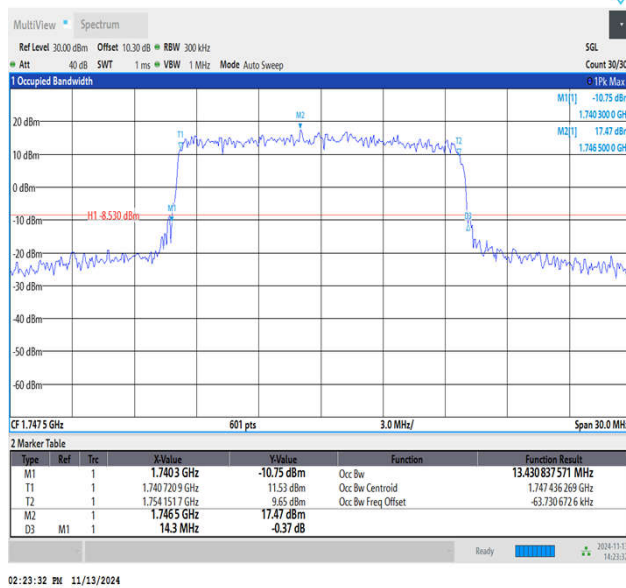
Band4-10MHz-64QAM-20350-50RB#0-PASS



Band4-15MHz-QPSK-20025-75RB#0-PASS



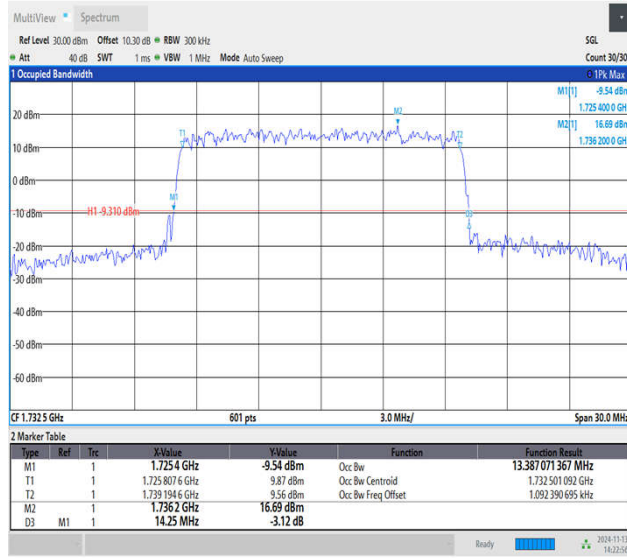
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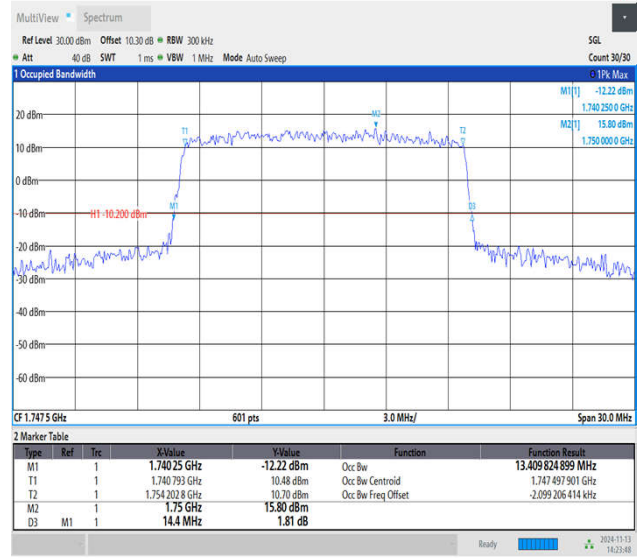


Band4-15MHz-16QAM-20025-75RB#0-PASS



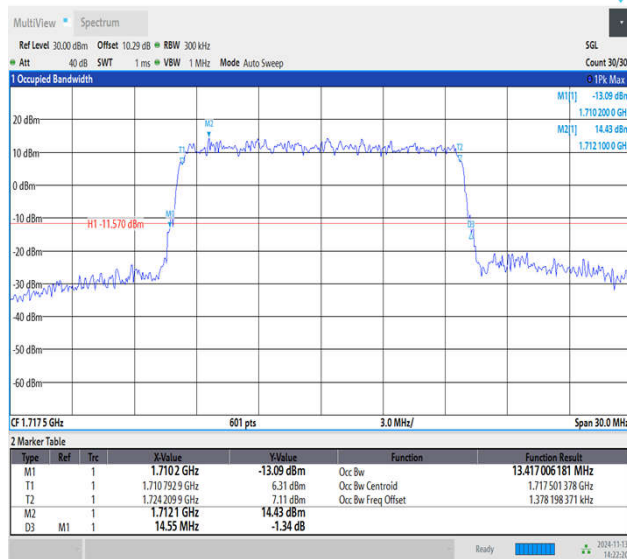
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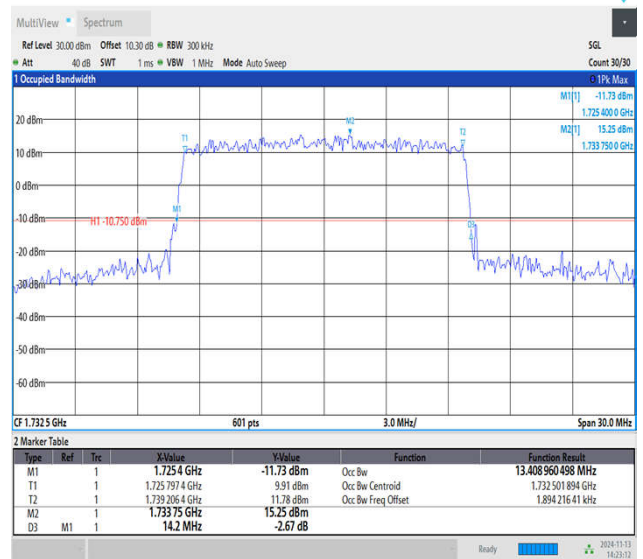
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Band4-15MHz-16QAM-20325-75RB#0-PASS



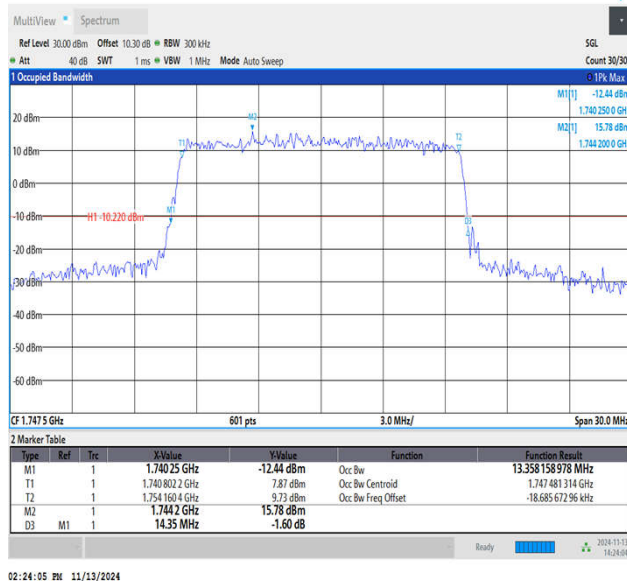
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Band4-15MHz-64QAM-20025-75RB#0-PASS



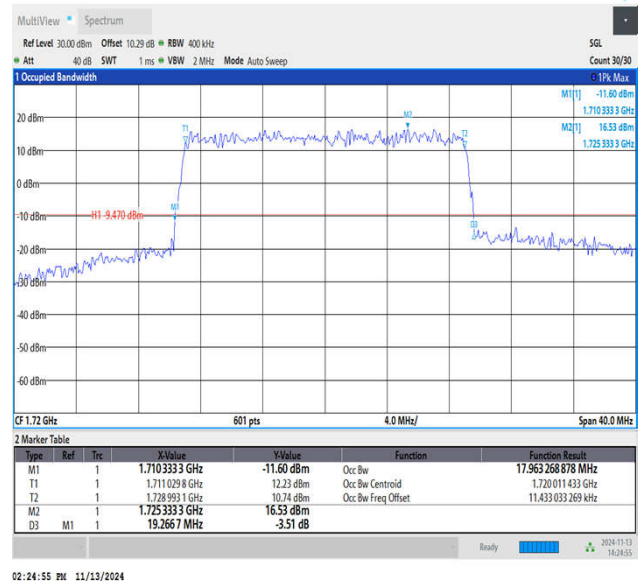
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Band4-15MHz-64QAM-20175-75RB#0-PASS



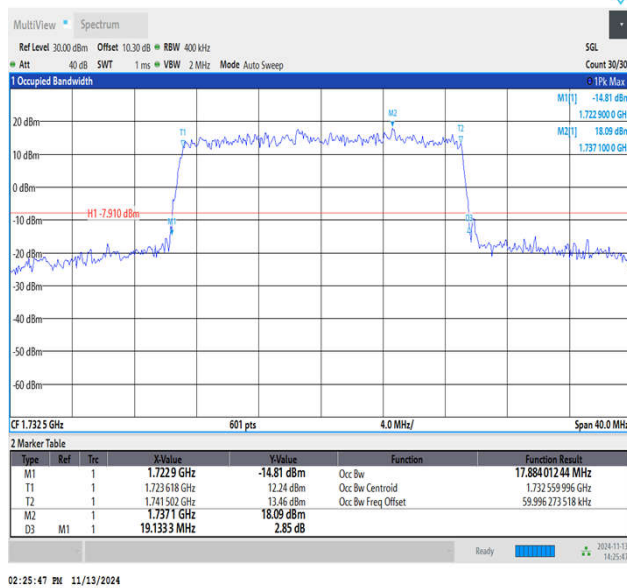
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Band4-15MHz-64QAM-20325-75RB#0-PASS



02:24:55 PM 11/13/2024

Band4-20MHz-QPSK-20050-100RB#0-PASS



02:25:47 PM 11/13/2024

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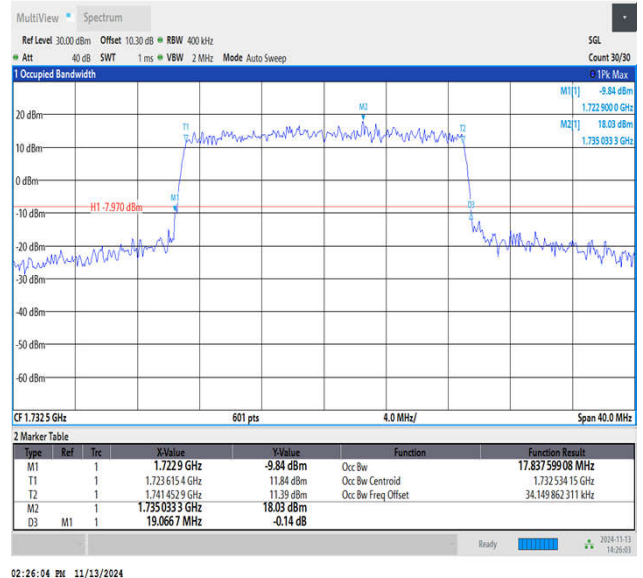
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Band4-20MHz-QPSK-20300-100RB#0-PASS



02:25:11 PM 11/13/2024

Band4-20MHz-16QAM-20050-100RB#0-PASS



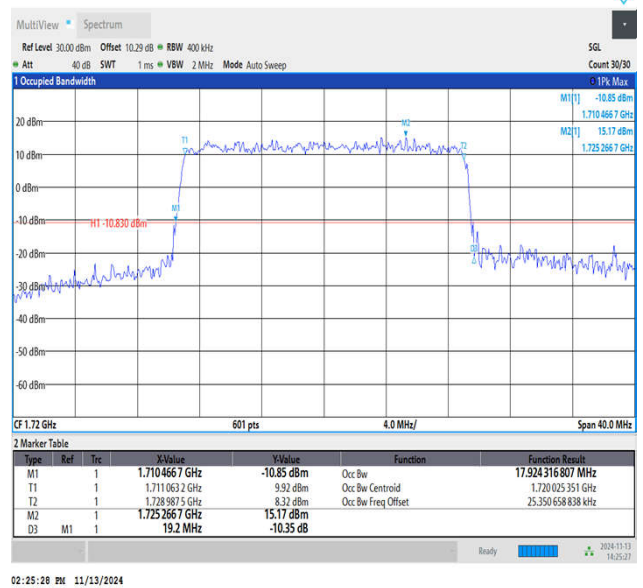
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Band4-20MHz-16QAM-20175-100RB#0-PASS



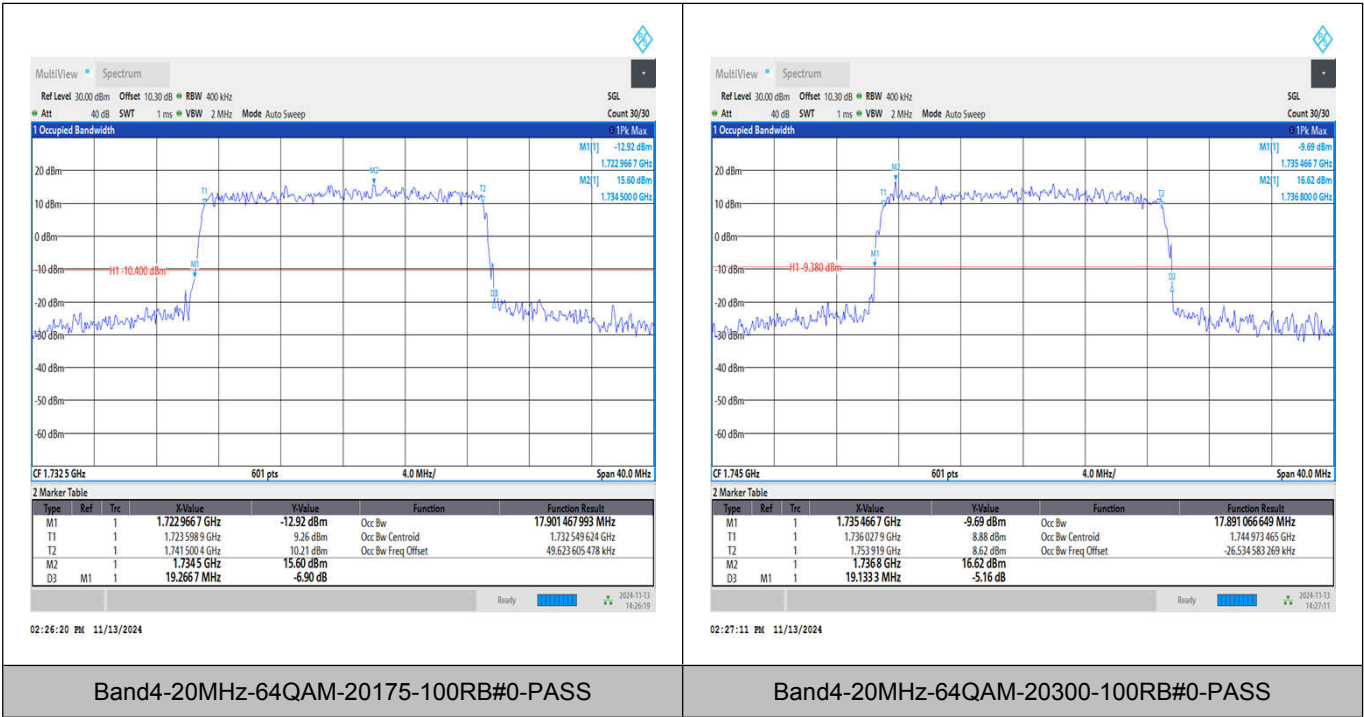
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Band4-20MHz-16QAM-20300-100RB#0-PASS



02:25:28 PM 11/13/2024

Band4-20MHz-64QAM-20050-100RB#0-PASS



1.4 Band Edge

1.4.1 Test Result

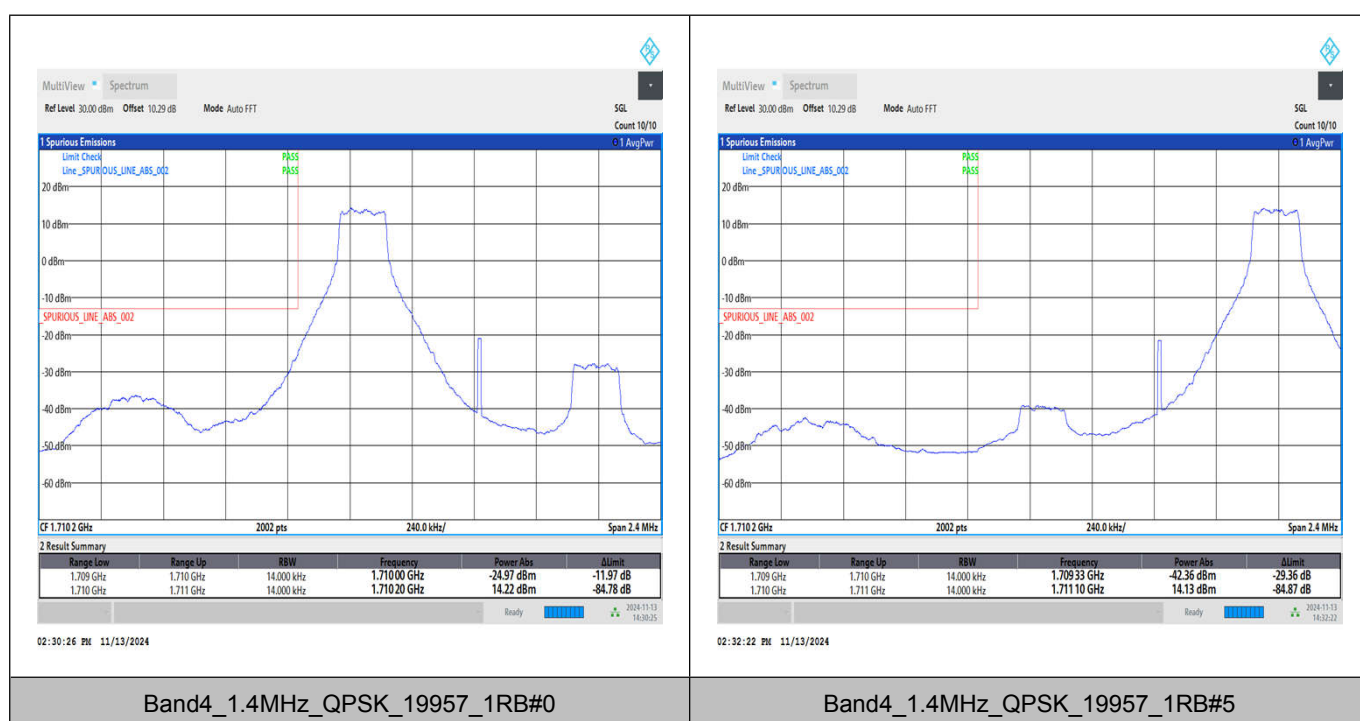
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-24.97	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-42.36	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-27.73	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-44.01	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-25.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-26.84	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-25.62	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-44.64	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-28.86	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-45.74	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-25.69	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-27.95	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	-28.27	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	-44.78	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	-29.65	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	-49.33	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	-27.64	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	-28.43	PASS
Band4	3MHz	QPSK	19965	1RB#0	-19.82	PASS
Band4	3MHz	QPSK	19965	1RB#14	-43.88	PASS
Band4	3MHz	QPSK	19965	15RB#0	-26.56	PASS
Band4	3MHz	QPSK	20385	1RB#0	-44.26	PASS
Band4	3MHz	QPSK	20385	1RB#14	-20.12	PASS
Band4	3MHz	QPSK	20385	15RB#0	-25.97	PASS
Band4	3MHz	16QAM	19965	1RB#0	-20.28	PASS
Band4	3MHz	16QAM	19965	1RB#14	-45.44	PASS
Band4	3MHz	16QAM	19965	15RB#0	-28.03	PASS
Band4	3MHz	16QAM	20385	1RB#0	-44.97	PASS
Band4	3MHz	16QAM	20385	1RB#14	-20.96	PASS
Band4	3MHz	16QAM	20385	15RB#0	-27.04	PASS
Band4	3MHz	64QAM	19965	1RB#0	-22.58	PASS

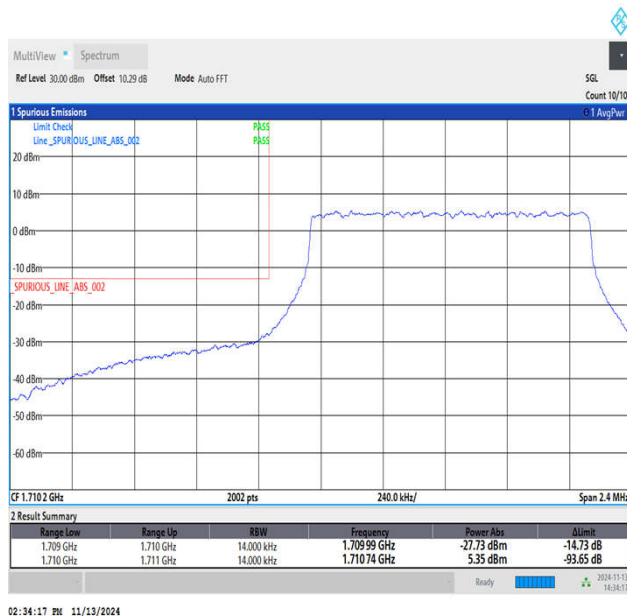
Band4	3MHz	64QAM	19965	1RB#14	-45.90	PASS
Band4	3MHz	64QAM	19965	15RB#0	-28.54	PASS
Band4	3MHz	64QAM	20385	1RB#0	-45.54	PASS
Band4	3MHz	64QAM	20385	1RB#14	-22.90	PASS
Band4	3MHz	64QAM	20385	15RB#0	-27.74	PASS
Band4	5MHz	QPSK	19975	1RB#0	-21.25	PASS
Band4	5MHz	QPSK	19975	1RB#24	-54.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	-27.83	PASS
Band4	5MHz	QPSK	20375	1RB#0	-52.07	PASS
Band4	5MHz	QPSK	20375	1RB#24	-22.54	PASS
Band4	5MHz	QPSK	20375	25RB#0	-26.23	PASS
Band4	5MHz	16QAM	19975	1RB#0	-21.89	PASS
Band4	5MHz	16QAM	19975	1RB#24	-55.13	PASS
Band4	5MHz	16QAM	19975	25RB#0	-29.58	PASS
Band4	5MHz	16QAM	20375	1RB#0	-52.35	PASS
Band4	5MHz	16QAM	20375	1RB#24	-22.82	PASS
Band4	5MHz	16QAM	20375	25RB#0	-28.59	PASS
Band4	5MHz	64QAM	19975	1RB#0	-24.63	PASS
Band4	5MHz	64QAM	19975	1RB#24	-56.42	PASS
Band4	5MHz	64QAM	19975	25RB#0	-28.85	PASS
Band4	5MHz	64QAM	20375	1RB#0	-52.88	PASS
Band4	5MHz	64QAM	20375	1RB#24	-23.74	PASS
Band4	5MHz	64QAM	20375	25RB#0	-28.24	PASS
Band4	10MHz	QPSK	20000	1RB#0	-31.63	PASS
Band4	10MHz	QPSK	20000	1RB#49	-54.88	PASS
Band4	10MHz	QPSK	20000	50RB#0	-30.06	PASS
Band4	10MHz	QPSK	20350	1RB#0	-50.35	PASS
Band4	10MHz	QPSK	20350	1RB#49	-33.71	PASS
Band4	10MHz	QPSK	20350	50RB#0	-28.89	PASS
Band4	10MHz	16QAM	20000	1RB#0	-31.64	PASS
Band4	10MHz	16QAM	20000	1RB#49	-54.97	PASS
Band4	10MHz	16QAM	20000	50RB#0	-31.99	PASS
Band4	10MHz	16QAM	20350	1RB#0	-50.40	PASS
Band4	10MHz	16QAM	20350	1RB#49	-30.75	PASS
Band4	10MHz	16QAM	20350	50RB#0	-30.19	PASS

Band4	10MHz	64QAM	20000	1RB#0	-34.04	PASS
Band4	10MHz	64QAM	20000	1RB#49	-55.31	PASS
Band4	10MHz	64QAM	20000	50RB#0	-31.76	PASS
Band4	10MHz	64QAM	20350	1RB#0	-50.37	PASS
Band4	10MHz	64QAM	20350	1RB#49	-34.42	PASS
Band4	10MHz	64QAM	20350	50RB#0	-30.44	PASS
Band4	15MHz	QPSK	20025	1RB#0	-28.66	PASS
Band4	15MHz	QPSK	20025	1RB#74	-56.03	PASS
Band4	15MHz	QPSK	20025	75RB#0	-30.99	PASS
Band4	15MHz	QPSK	20325	1RB#0	-49.06	PASS
Band4	15MHz	QPSK	20325	1RB#74	-30.11	PASS
Band4	15MHz	QPSK	20325	75RB#0	-29.35	PASS
Band4	15MHz	16QAM	20025	1RB#0	-28.26	PASS
Band4	15MHz	16QAM	20025	1RB#74	-55.56	PASS
Band4	15MHz	16QAM	20025	75RB#0	-32.86	PASS
Band4	15MHz	16QAM	20325	1RB#0	-48.93	PASS
Band4	15MHz	16QAM	20325	1RB#74	-30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	-31.13	PASS
Band4	15MHz	64QAM	20025	1RB#0	-30.05	PASS
Band4	15MHz	64QAM	20025	1RB#74	-56.11	PASS
Band4	15MHz	64QAM	20025	75RB#0	-35.52	PASS
Band4	15MHz	64QAM	20325	1RB#0	-49.08	PASS
Band4	15MHz	64QAM	20325	1RB#74	-29.96	PASS
Band4	15MHz	64QAM	20325	75RB#0	-34.98	PASS
Band4	20MHz	QPSK	20050	1RB#0	-32.48	PASS
Band4	20MHz	QPSK	20050	1RB#99	-55.08	PASS
Band4	20MHz	QPSK	20050	100RB#0	-30.82	PASS
Band4	20MHz	QPSK	20300	1RB#0	-47.89	PASS
Band4	20MHz	QPSK	20300	1RB#99	-32.82	PASS
Band4	20MHz	QPSK	20300	100RB#0	-28.32	PASS
Band4	20MHz	16QAM	20050	1RB#0	-32.11	PASS
Band4	20MHz	16QAM	20050	1RB#99	-55.25	PASS
Band4	20MHz	16QAM	20050	100RB#0	-33.02	PASS
Band4	20MHz	16QAM	20300	1RB#0	-47.97	PASS
Band4	20MHz	16QAM	20300	1RB#99	-32.58	PASS

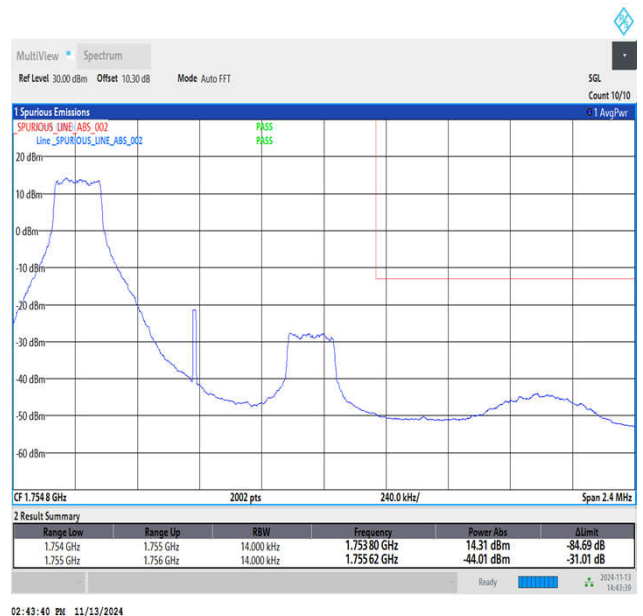
Band4	20MHz	16QAM	20300	100RB#0	-31.06	PASS
Band4	20MHz	64QAM	20050	1RB#0	-33.03	PASS
Band4	20MHz	64QAM	20050	1RB#99	-55.58	PASS
Band4	20MHz	64QAM	20050	100RB#0	-36.15	PASS
Band4	20MHz	64QAM	20300	1RB#0	-47.88	PASS
Band4	20MHz	64QAM	20300	1RB#99	-34.38	PASS
Band4	20MHz	64QAM	20300	100RB#0	-34.90	PASS

1. 4. 2Test Graphs

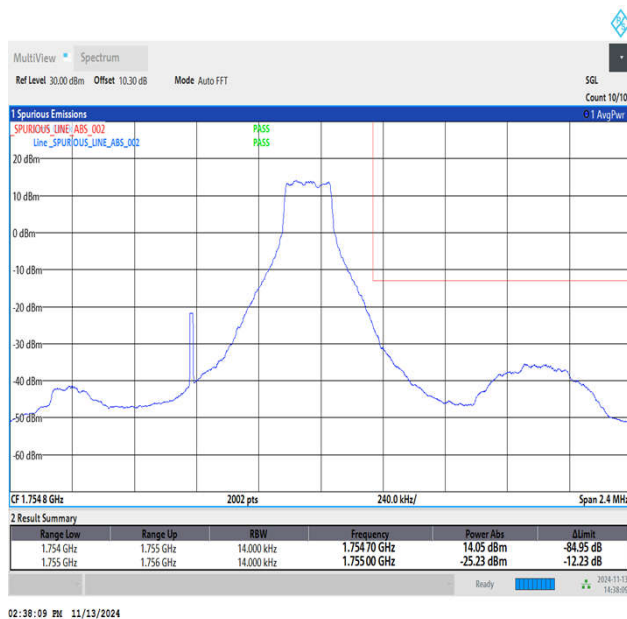




Band4_1.4MHz_QPSK_19957_6RB#0



Band4_1.4MHz_QPSK_20393_1RB#0



Band4_1.4MHz_QPSK_20393_1RB#5



Band4_1.4MHz_QPSK_20393_6RB#0

