

Report No.: SUAR/2021/C000301

Rev.: 01

Page: 1 of 88

# Appendix



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 62992980 www.sgsgroup.com.cn

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 sgs.china@sgs.com

## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	24.38	22.78	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.42	22.82	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.33	22.73	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.62	22.02	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.30	22.70	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.39	22.79	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.38	22.78	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.09	22.49	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.21	22.61	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.27	22.67	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.18	22.58	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.01	22.41	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.73	22.13	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.76	22.16	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.73	22.13	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.67	21.07	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.28	22.68	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.45	22.85	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.24	22.64	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.15	21.55	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.99	22.39	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.18	22.58	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.15	22.55	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.04	21.44	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	22.51	20.91	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	22.51	20.91	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	22.46	20.86	33	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 3 of 88

Band41	5MHz	64QAM	39675	25RB#0	21.55	19.95	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	22.44	20.84	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	22.49	20.89	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	22.48	20.88	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	22.02	20.42	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	22.33	20.73	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	22.40	20.80	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	22.28	20.68	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	21.96	20.36	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	21.65	20.05	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	21.68	20.08	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	21.65	20.05	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	20.60	19.00	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	22.19	20.59	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	22.35	20.75	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	22.17	20.57	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	21.05	19.45	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	21.94	20.34	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	22.11	20.51	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	22.09	20.49	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	20.96	19.36	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.31	22.71	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.34	22.74	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.29	22.69	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.48	21.88	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.44	22.84	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.38	22.78	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.36	22.76	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.04	22.44	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.46	22.86	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.25	22.65	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.17	22.57	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.89	22.29	33	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 4 of 88

Band41	10MHz	16QAM	39700	1RB#0	23.68	22.08	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.80	22.20	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.71	22.11	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.72	21.12	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.26	22.66	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.31	22.71	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.23	22.63	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.13	21.53	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.13	22.53	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.17	22.57	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.03	22.43	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.06	21.46	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	22.50	20.90	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	22.55	20.95	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	22.45	20.85	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	21.53	19.93	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	22.39	20.79	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	22.48	20.88	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	22.52	20.92	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	21.99	20.39	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	22.32	20.72	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	22.41	20.81	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	22.28	20.68	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	21.92	20.32	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	21.68	20.08	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	21.66	20.06	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	21.63	20.03	33	PASS
Band41	10MHz	256QAM	39700	50RB#0	20.62	19.02	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	22.19	20.59	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	22.35	20.75	33	PASS
Band41	10MHz	256QAM	40620	1RB#49	22.14	20.54	33	PASS
Band41	10MHz	256QAM	40620	50RB#0	21.08	19.48	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	21.90	20.30	33	PASS



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Wireless Laboratory

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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 5 of 88

Band41	10MHz	256QAM	41540	1RB#24	22.08	20.48	33	PASS
Band41	10MHz	256QAM	41540	1RB#49	22.05	20.45	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	20.96	19.36	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.34	22.74	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.32	22.72	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.39	22.79	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.57	21.97	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.47	22.87	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.38	22.78	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.48	22.88	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.02	22.42	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.40	22.80	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.13	22.53	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.20	22.60	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.92	22.32	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.58	21.98	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.54	21.94	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.49	21.89	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.62	21.02	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.07	22.47	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.15	22.55	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.03	22.43	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.07	21.47	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.06	22.46	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.94	22.34	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.99	22.39	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.90	21.30	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	22.48	20.88	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	22.52	20.92	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	22.47	20.87	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	21.56	19.96	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	22.42	20.82	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	22.52	20.92	33	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 6 of 88

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Band41	15MHz	64QAM	40620	75RB#0	22.03	20.43	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	22.32	20.72	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	22.36	20.76	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	22.31	20.71	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	21.93	20.33	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	21.68	20.08	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	21.69	20.09	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	21.67	20.07	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	20.60	19.00	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	22.22	20.62	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	22.35	20.75	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	22.19	20.59	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	21.09	19.49	33	PASS
Band41	15MHz	256QAM	41515	1RB#0	21.90	20.30	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	22.12	20.52	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	22.10	20.50	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	20.94	19.34	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.36	22.76	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.37	22.77	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.23	22.63	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.57	21.97	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.50	22.90	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.41	22.81	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.32	22.72	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.05	22.45	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.43	22.83	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.15	22.55	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.15	22.55	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.80	22.20	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.59	21.99	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.61	22.01	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.60	22.00	33	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 7 of 88

Band41	20MHz	16QAM	39750	100RB#0	22.62	21.02	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.15	22.55	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.14	22.54	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.18	22.58	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.05	21.45	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.12	22.52	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.88	22.28	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.88	22.28	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.92	21.32	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	22.50	20.90	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	22.54	20.94	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	22.46	20.86	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	21.61	20.01	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	22.42	20.82	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	22.49	20.89	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	22.51	20.91	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	22.14	20.54	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	22.31	20.71	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	22.40	20.80	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	22.32	20.72	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	21.88	20.28	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	21.68	20.08	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	21.66	20.06	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	21.65	20.05	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	20.59	18.99	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	22.21	20.61	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	22.37	20.77	33	PASS
Band41	20MHz	256QAM	40620	1RB#99	22.15	20.55	33	PASS
Band41	20MHz	256QAM	40620	100RB#0	21.08	19.48	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	21.90	20.30	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	22.11	20.51	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	22.08	20.48	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	20.94	19.34	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.32	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.24	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.16	13	PASS
Band41	20MHz	256QAM	39750	100RB#0	8.46	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.60	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.30	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.60	13	PASS
Band41	20MHz	256QAM	40620	100RB#0	8.54	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.46	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.90	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.40	13	PASS
Band41	20MHz	256QAM	41490	100RB#0	8.54	13	PASS



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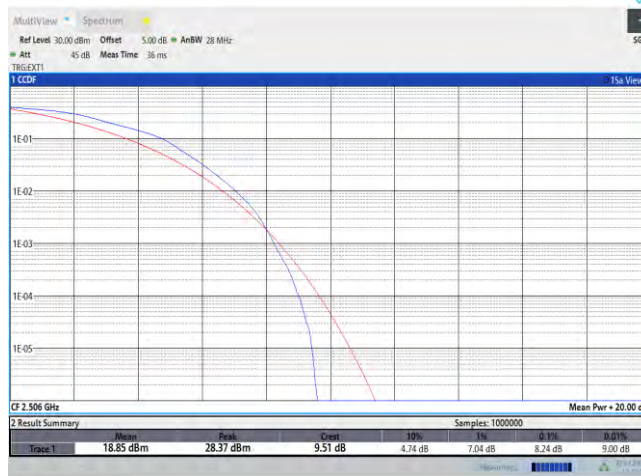
Test Graphs

Band41-20MHz-QPSK-39750-100RB#0



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Band41-20MHz-16QAM-39750-100RB#0



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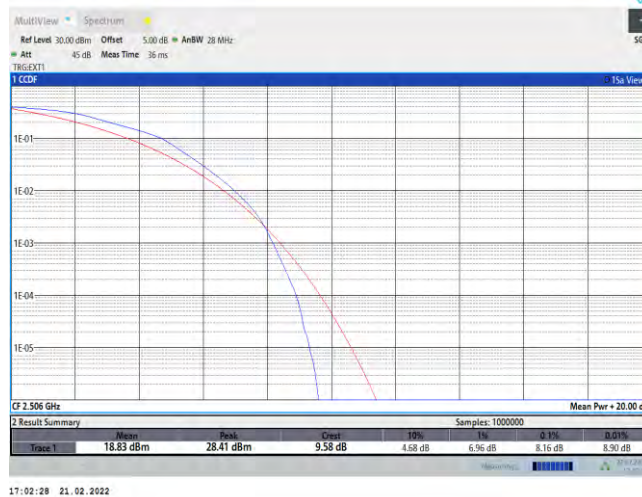


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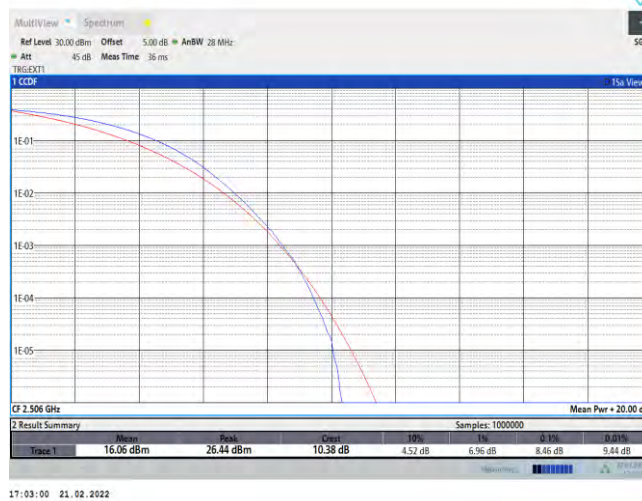
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Band41-20MHz-64QAM-39750-100RB#0



Band41-20MHz-256QAM-39750-100RB#0

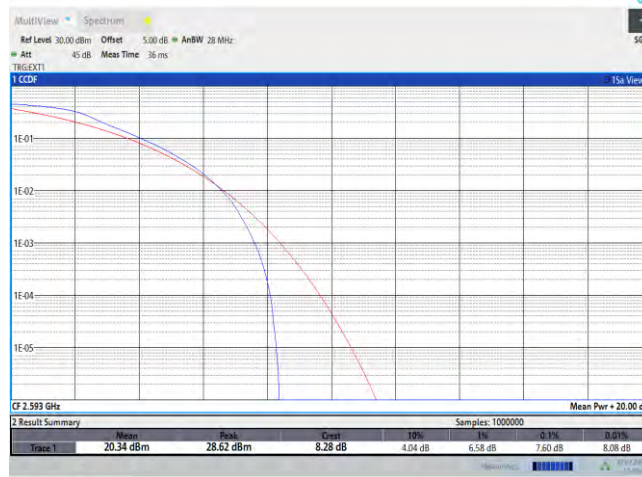


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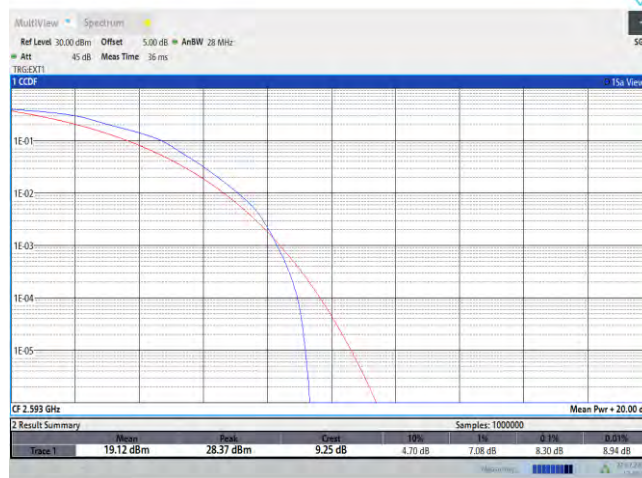
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Band41-20MHz-QPSK-40620-100RB#0



17:04:04 21.02.2022

Band41-20MHz-16QAM-40620-100RB#0



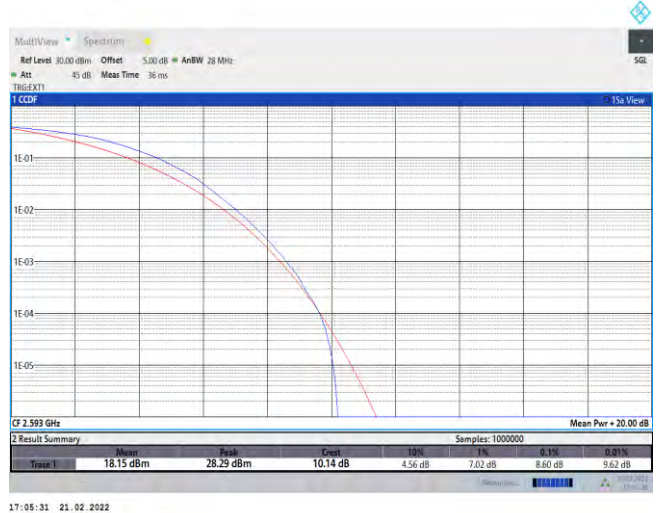
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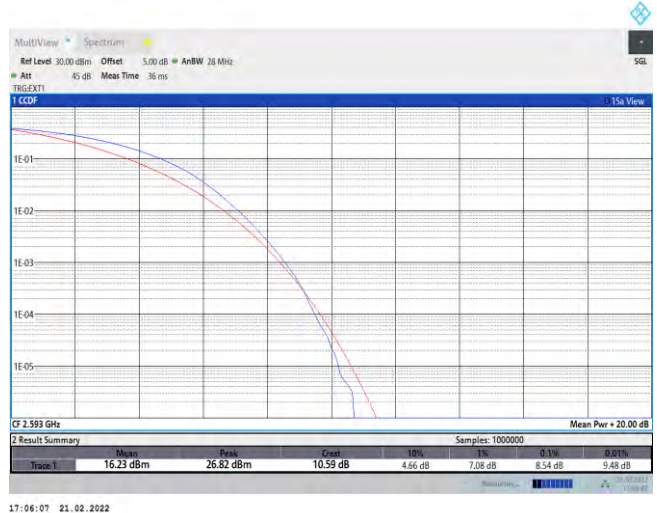
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Band41-20MHz-64QAM-40620-100RB#0



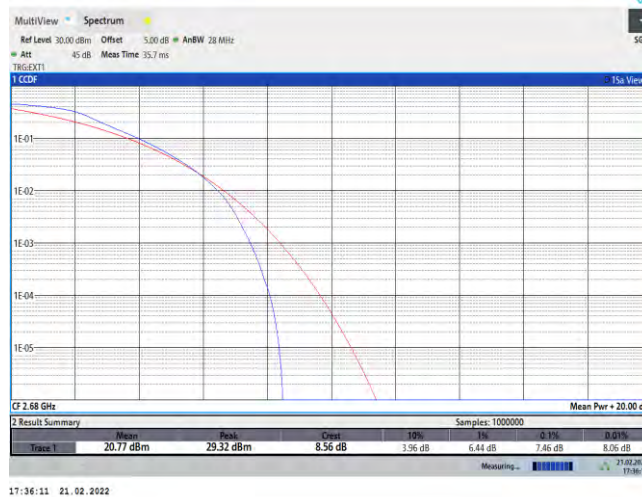
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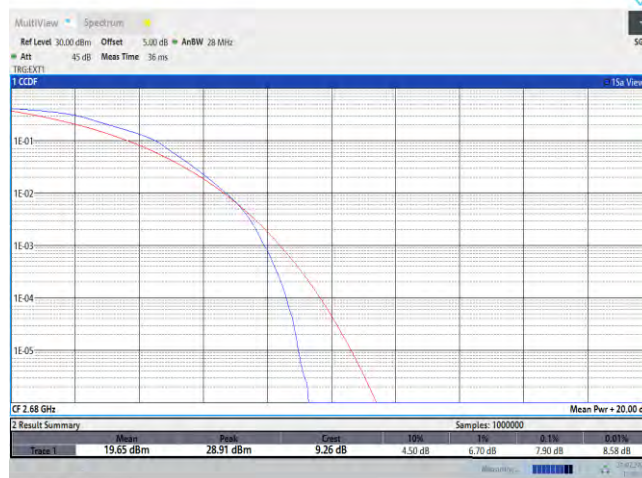
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Band41-20MHz-QPSK-41490-100RB#0



17:36:11 21.02.2022

Band41-20MHz-16QAM-41490-100RB#0



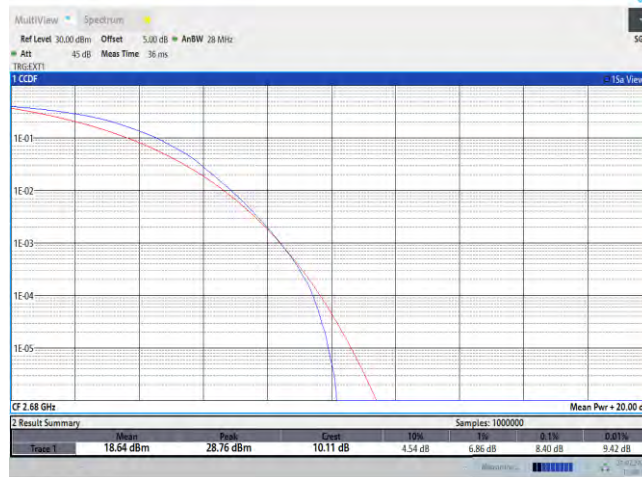
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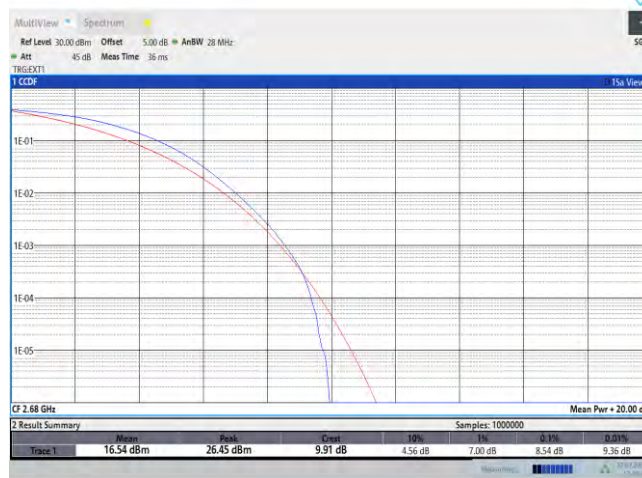
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Band41-20MHz-64QAM-41490-100RB#0



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 15 of 88

## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	256QAM	40620	100RB#0	PASS	PASS



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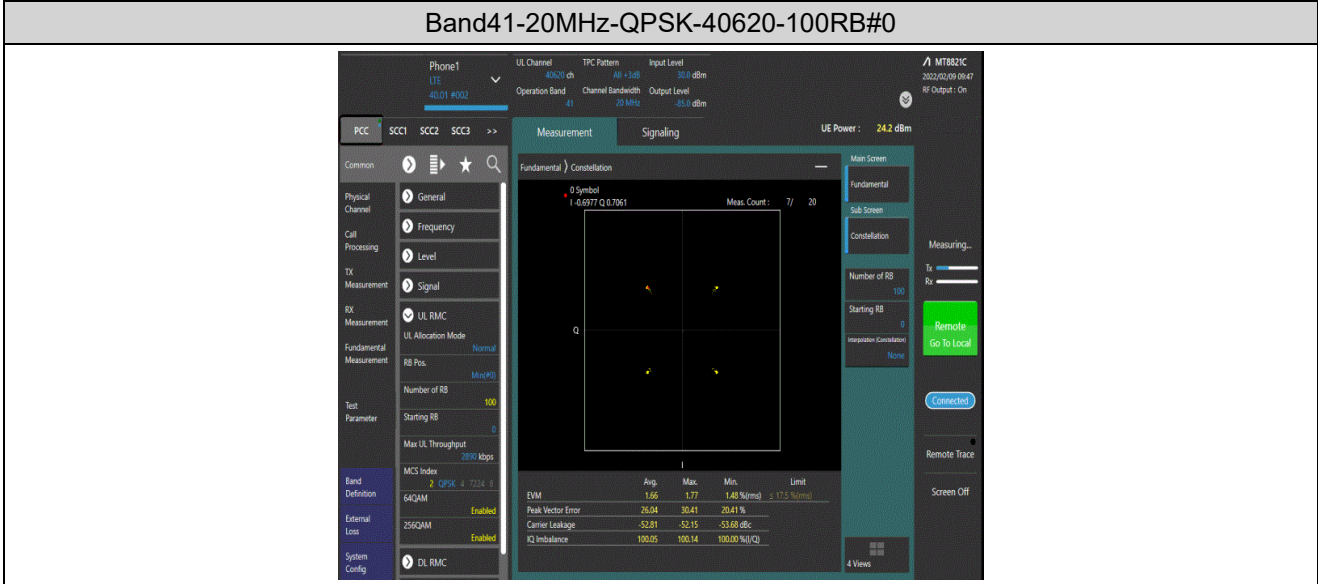
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Test Graphs



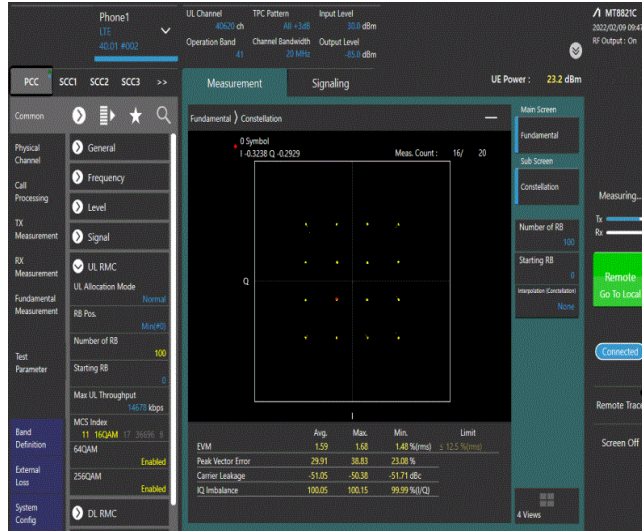
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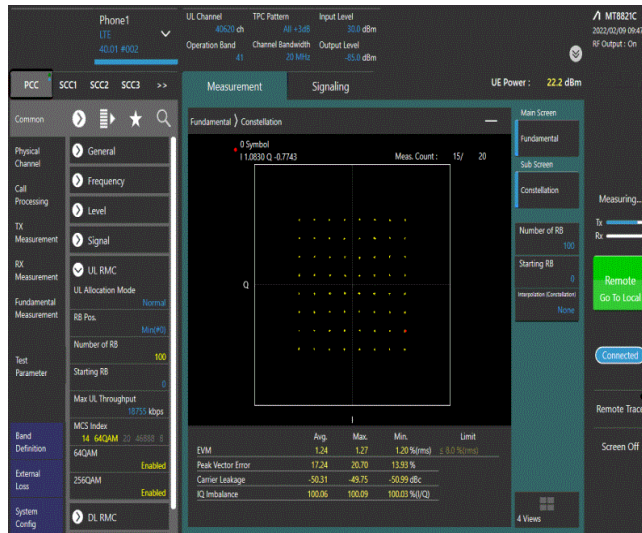
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Band41-20MHz-64QAM-40620-100RB#0

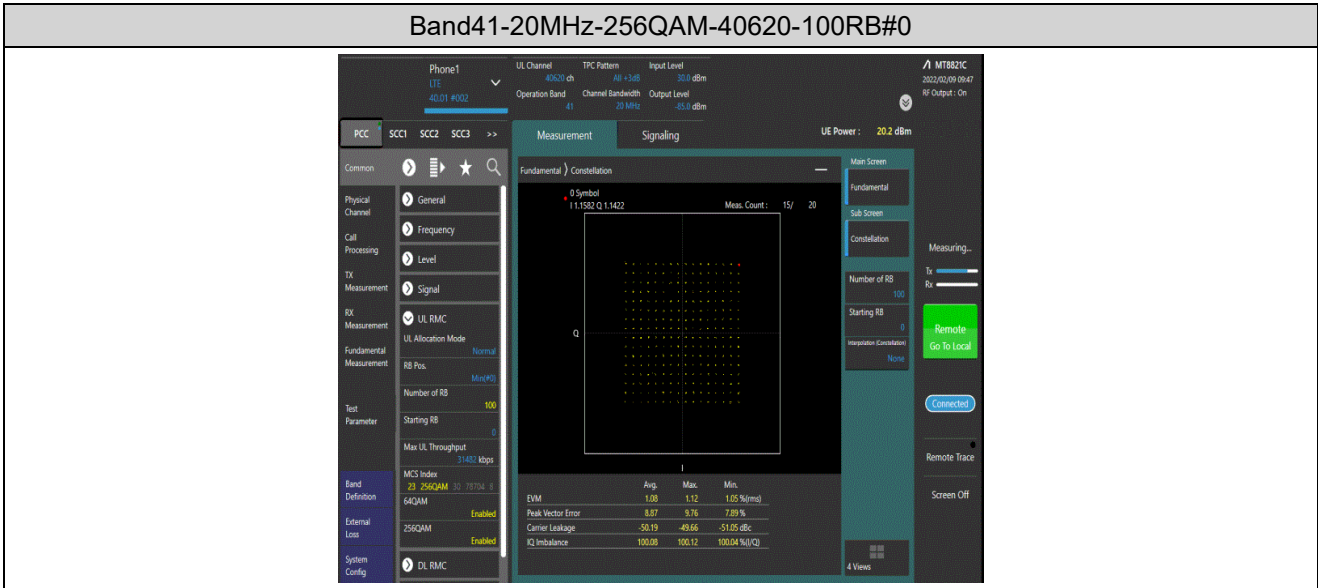


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.487	4.72	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.467	4.86	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.463	4.88	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.477	4.95	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.478	5.01	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.476	4.96	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.484	4.87	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.481	4.92	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.483	4.87	PASS
Band41	5MHz	256QAM	39675	25RB#0	4.466	4.95	PASS
Band41	5MHz	256QAM	40620	25RB#0	4.463	4.97	PASS
Band41	5MHz	256QAM	41565	25RB#0	4.464	4.97	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.966	9.28	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.62	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.909	9.60	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.919	9.66	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.927	9.62	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.931	9.62	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.939	9.64	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.928	9.64	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.94	9.56	PASS
Band41	10MHz	256QAM	39700	50RB#0	8.93	9.62	PASS
Band41	10MHz	256QAM	40620	50RB#0	8.926	9.74	PASS
Band41	10MHz	256QAM	41540	50RB#0	8.931	9.68	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.665	14.43	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.449	15.39	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.478	15.93	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.452	14.64	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.463	14.70	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.451	14.73	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

Page: 20 of 88

Band41	15MHz	64QAM	39725	75RB#0	13.452	15.30	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.457	15.03	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.479	14.73	PASS
Band41	15MHz	256QAM	39725	75RB#0	13.447	14.82	PASS
Band41	15MHz	256QAM	40620	75RB#0	13.443	15.15	PASS
Band41	15MHz	256QAM	41515	75RB#0	13.459	15.03	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.851	18.68	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.88	20.12	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.905	20.12	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.866	20.68	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.881	20.96	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.891	20.36	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.903	19.96	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.864	20.04	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.904	20.92	PASS
Band41	20MHz	256QAM	39750	100RB#0	17.87	19.40	PASS
Band41	20MHz	256QAM	40620	100RB#0	17.89	19.92	PASS
Band41	20MHz	256QAM	41490	100RB#0	17.882	19.68	PASS



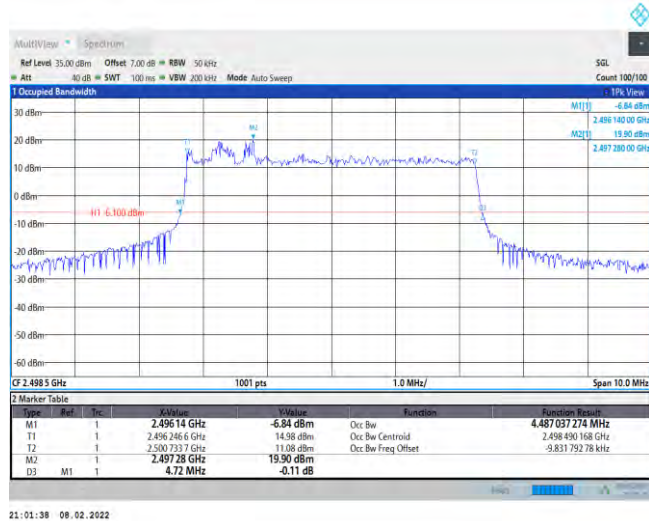
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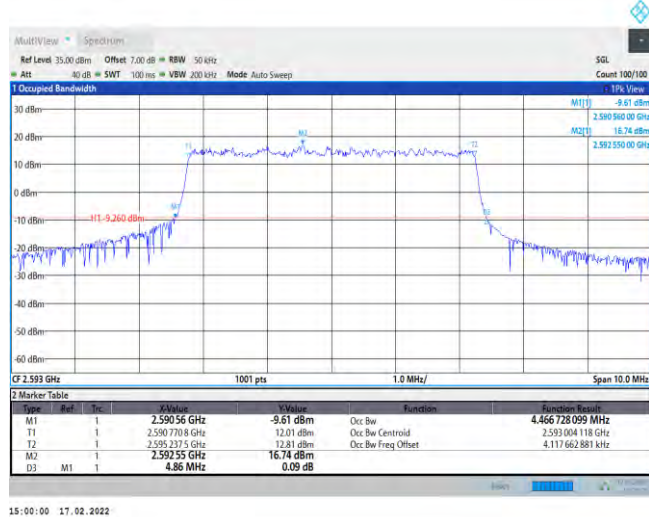
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Test Graphs

Band41-5MHz-QPSK-39675-25RB#0



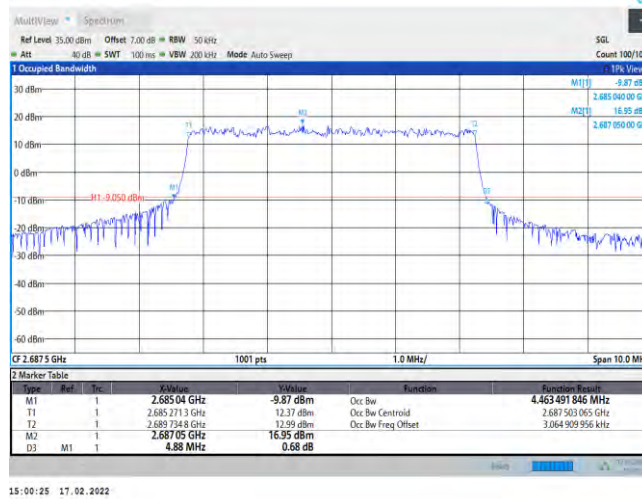
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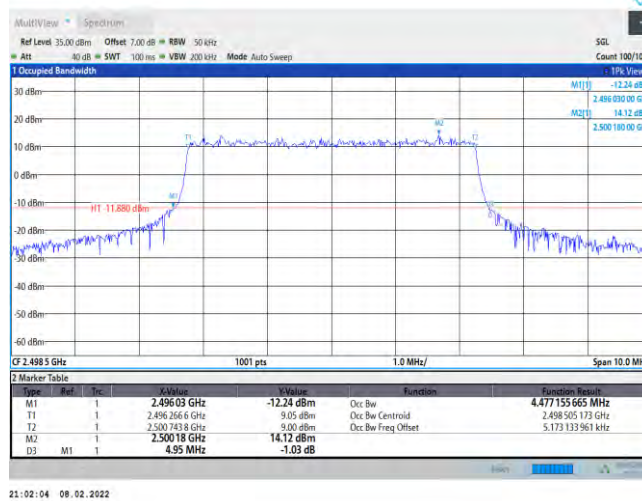
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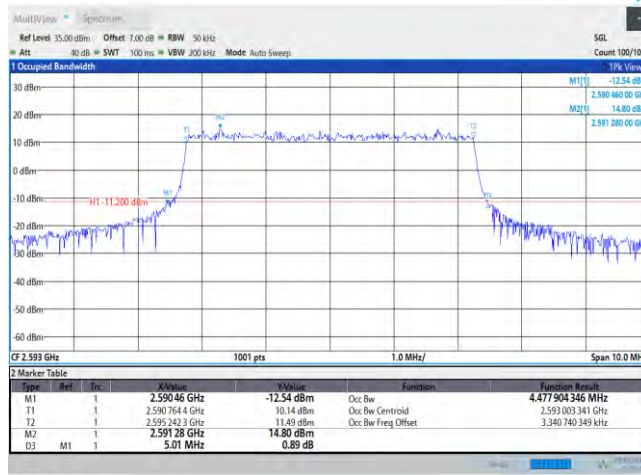
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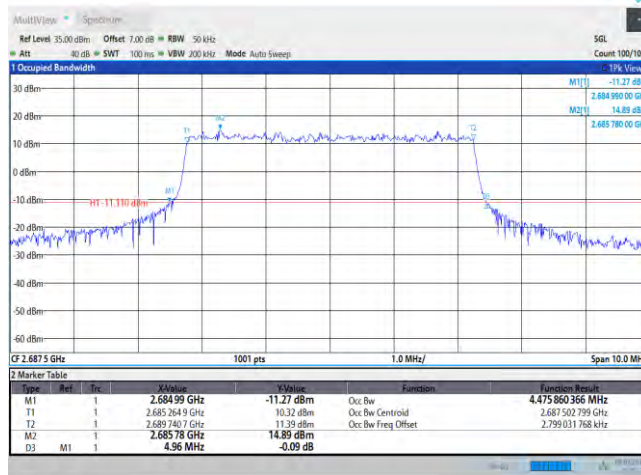
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Band41-5MHz-16QAM-40620-25RB#0



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Band41-5MHz-16QAM-41565-25RB#0



21:05:26 08.02.2022



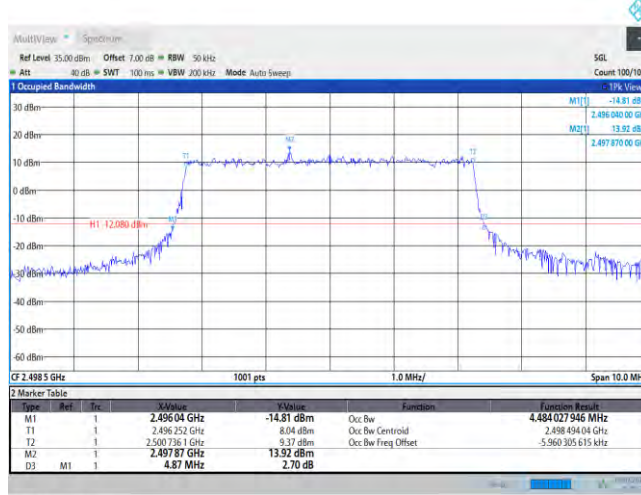
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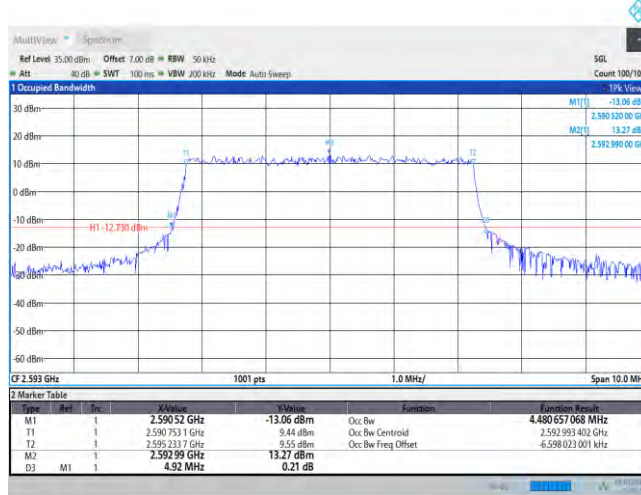
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Band41-5MHz-64QAM-40620-25RB#0



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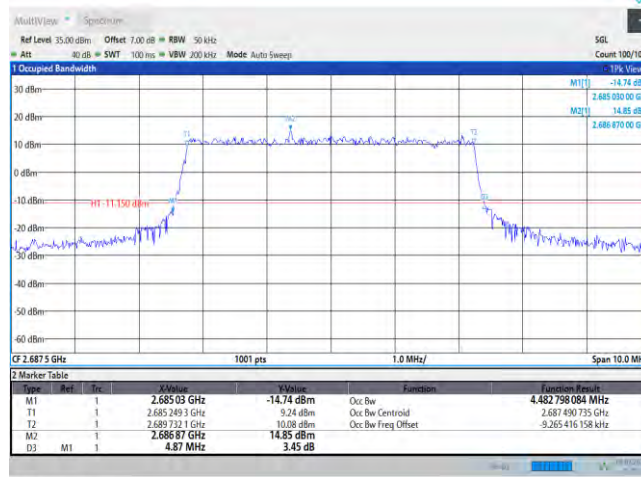
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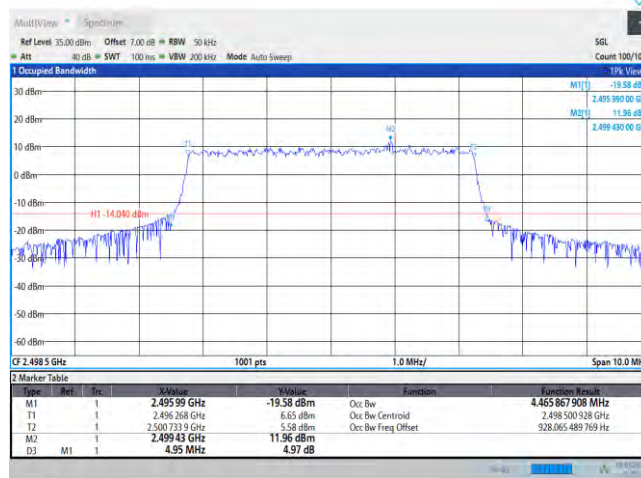


Band41-5MHz-64QAM-41565-25RB#0



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Band41-5MHz-256QAM-39675-25RB#0



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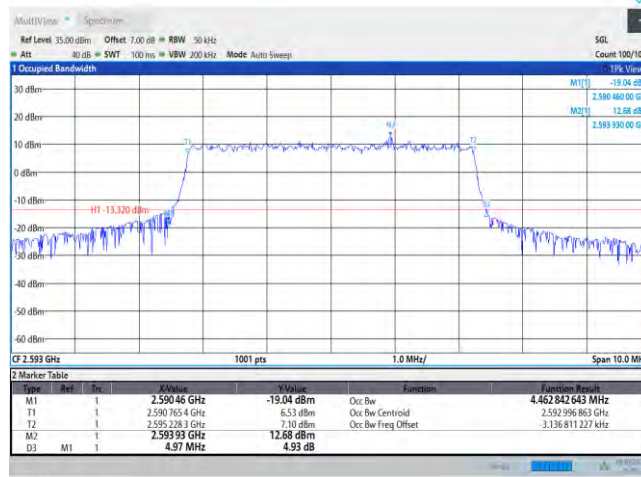


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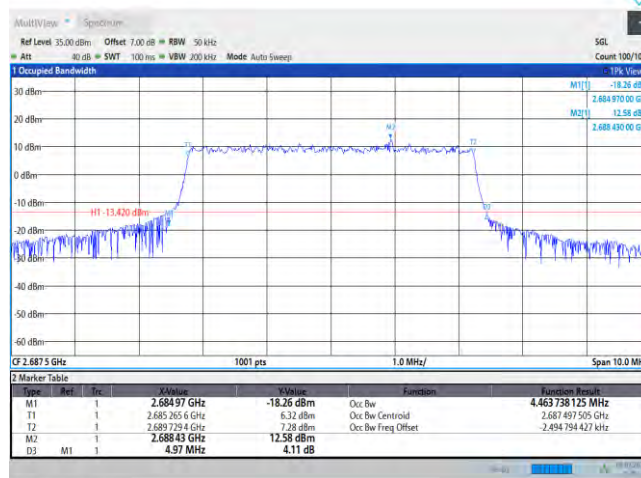
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Band41-5MHz-256QAM-41565-25RB#0



21:06:17 08.02.2022



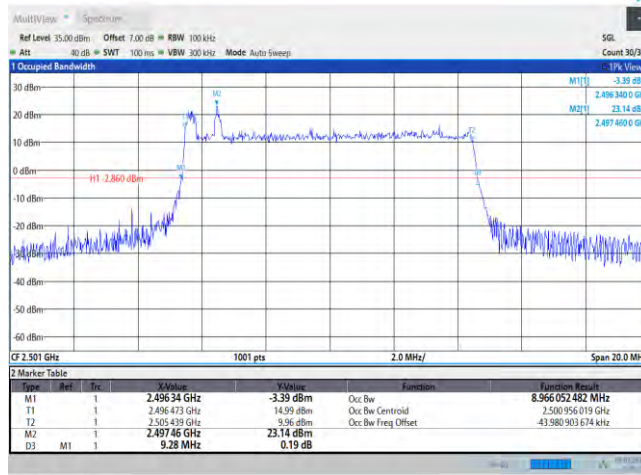
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Band41-10MHz-QPSK-39700-50RB#0



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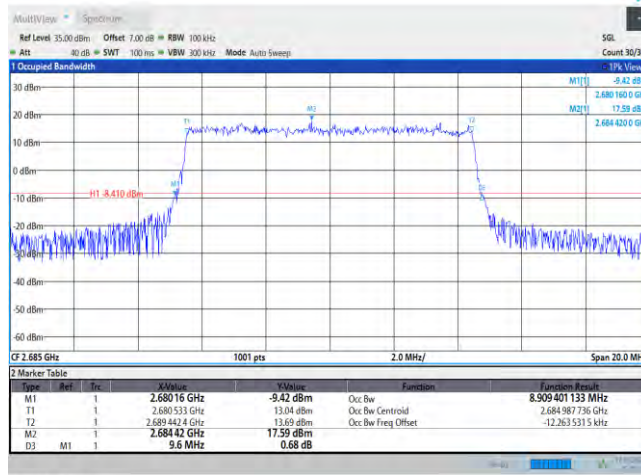
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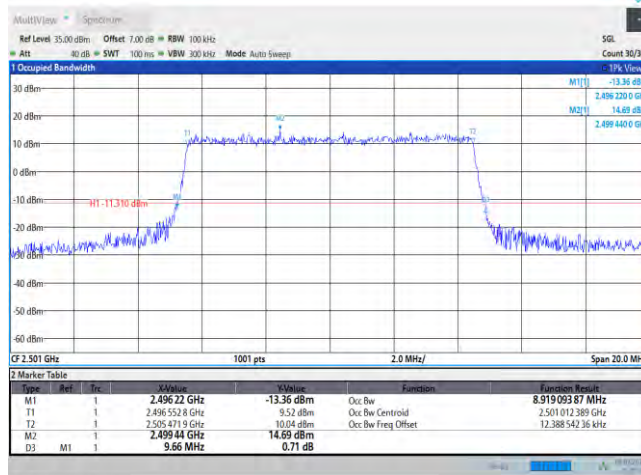
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Band41-10MHz-QPSK-41540-50RB#0



15:01:16 17.02.2022

Band41-10MHz-16QAM-39700-50RB#0



21:07:08 08.02.2022



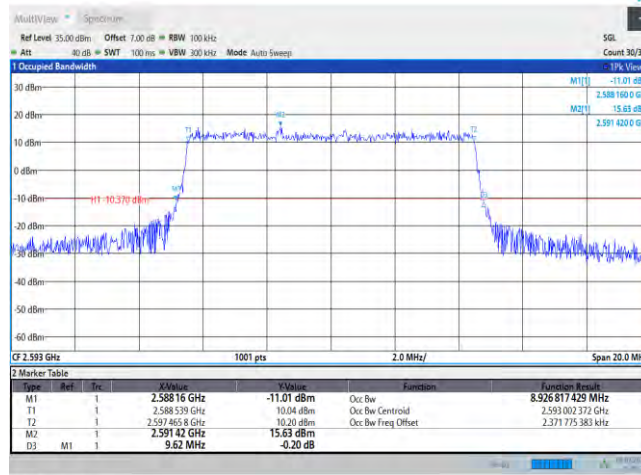
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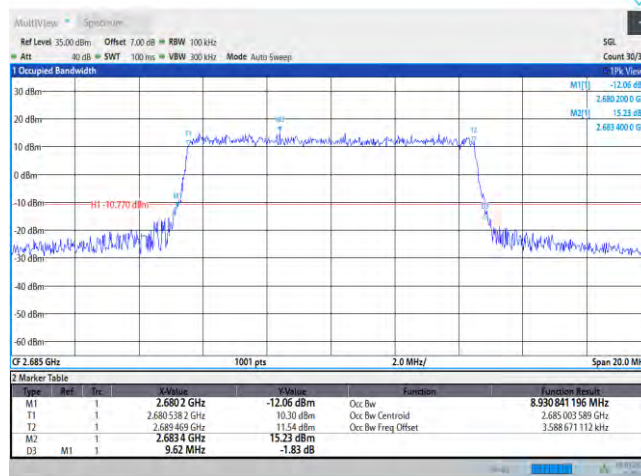
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Band41-10MHz-16QAM-40620-50RB#0



21:08:31 08.02.2022

Band41-10MHz-16QAM-41540-50RB#0



21:09:54 08.02.2022



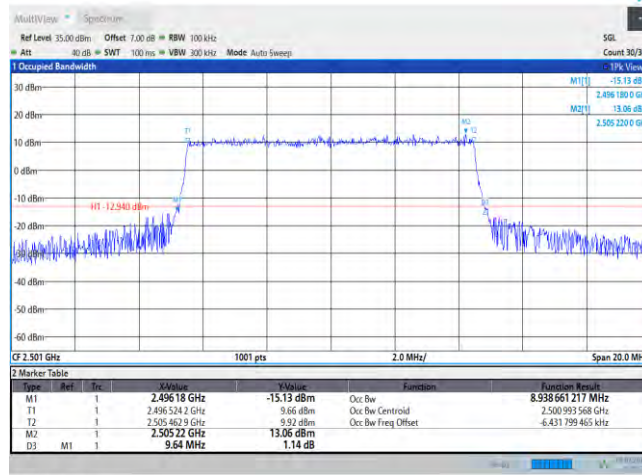
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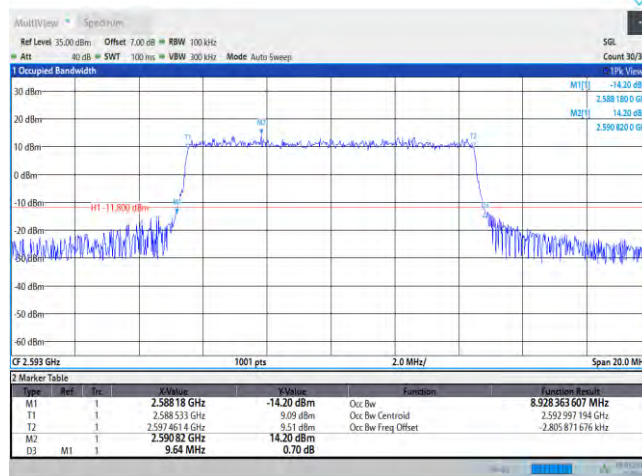
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Band41-10MHz-64QAM-39700-50RB#0



21:07:26 08.02.2022

Band41-10MHz-64QAM-40620-50RB#0



21:08:49 08.02.2022

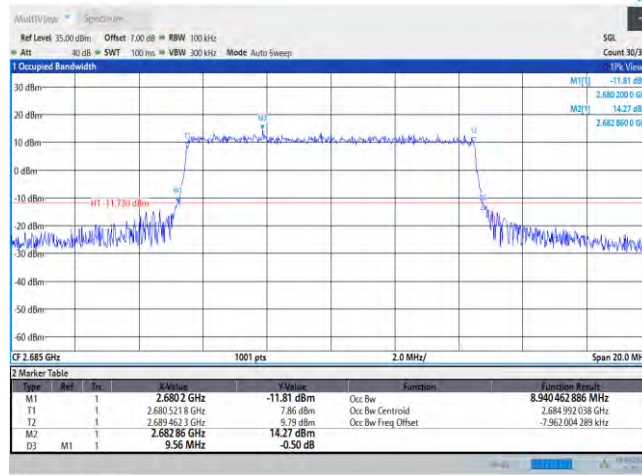


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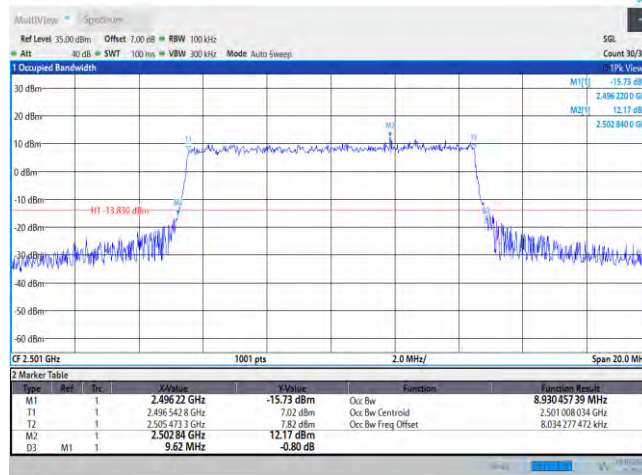
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Band41-10MHz-64QAM-41540-50RB#0



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Band41-10MHz-256QAM-39700-50RB#0



21:07:44 08.02.2022



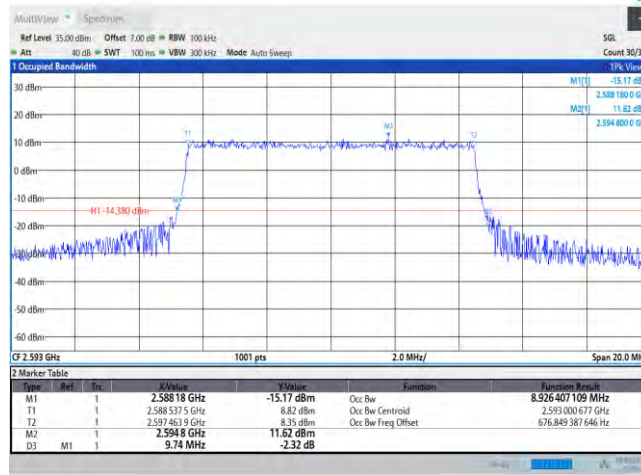
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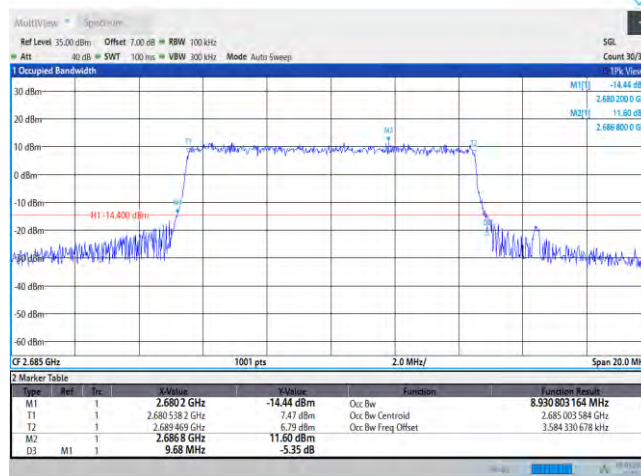
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21:09:08 08.02.2022

Band41-10MHz-256QAM-41540-50RB#0



21:10:31 08.02.2022



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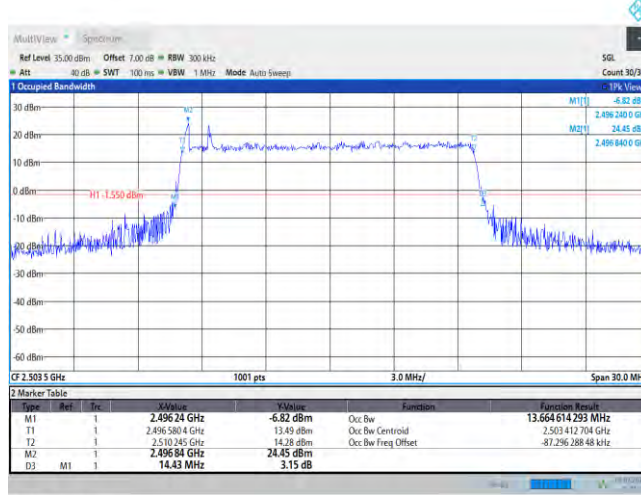
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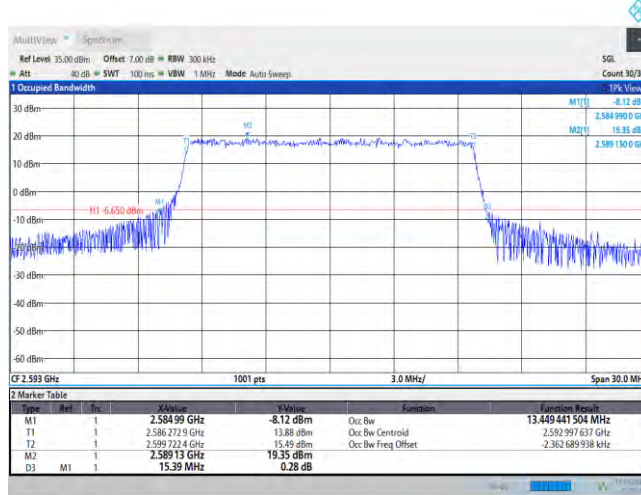


Band41-15MHz-QPSK-39725-75RB#0



21:11:02 09.02.2022

Band41-15MHz-QPSK-40620-75RB#0



15:01:49 17.02.2022



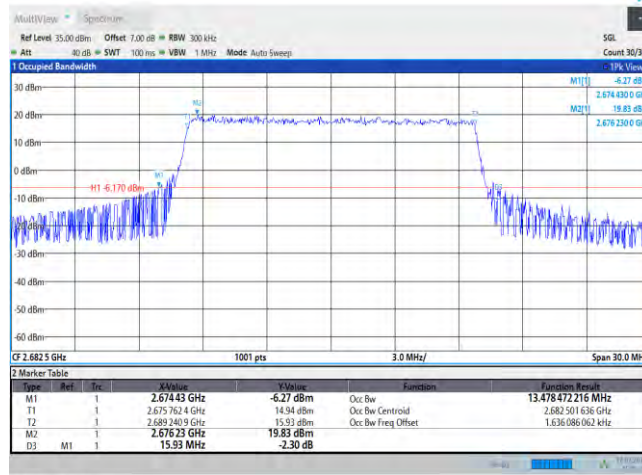
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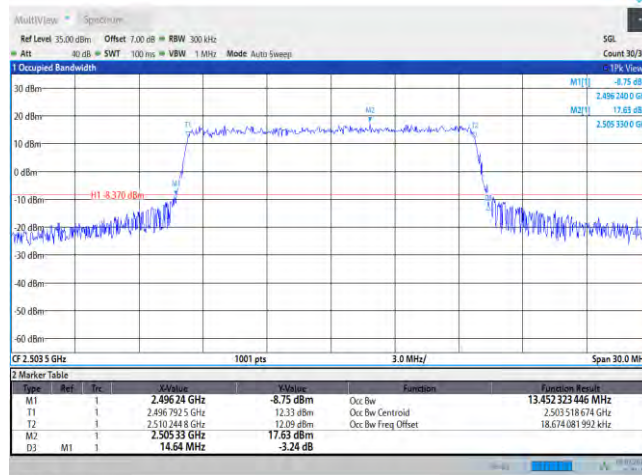
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Band41-15MHz-QPSK-41515-75RB#0



15:02:07 17.02.2022

Band41-15MHz-16QAM-39725-75RB#0



21:11:20 08.02.2022



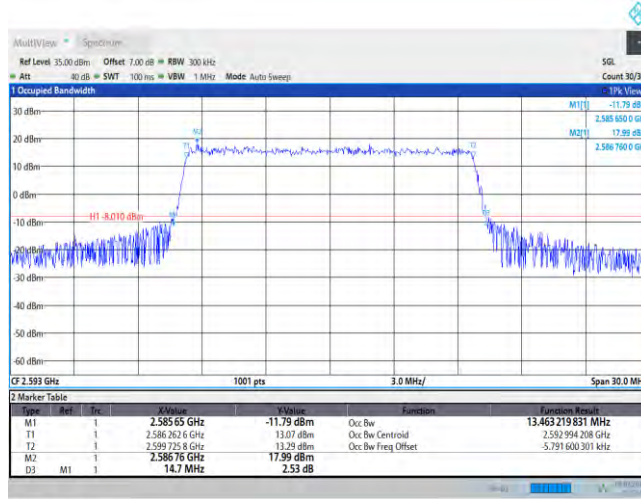
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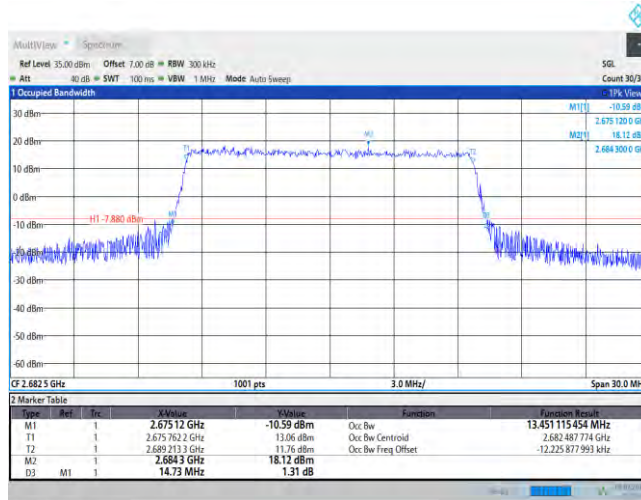
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21:12:43 08.02.2022

Band41-15MHz-16QAM-41515-75RB#0



21:14:06 08.02.2022

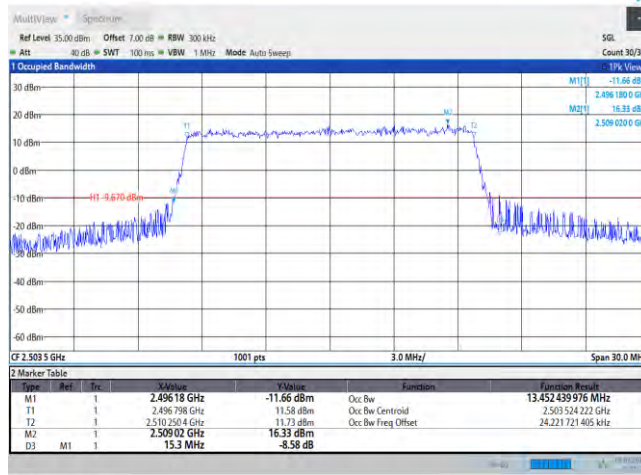


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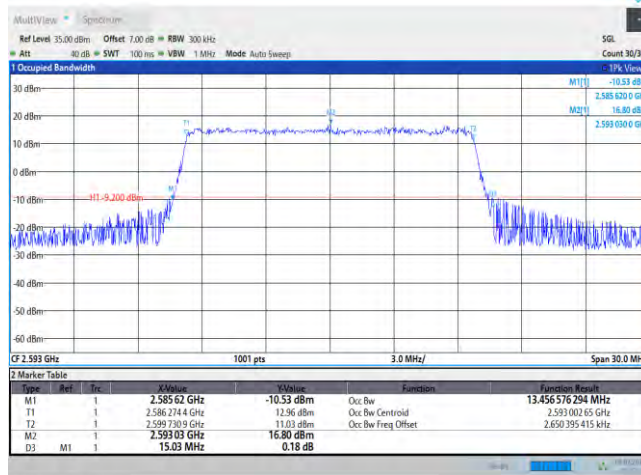
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Band41-15MHz-64QAM-39725-75RB#0



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Band41-15MHz-64QAM-40620-75RB#0



21:13:01 08.02.2022



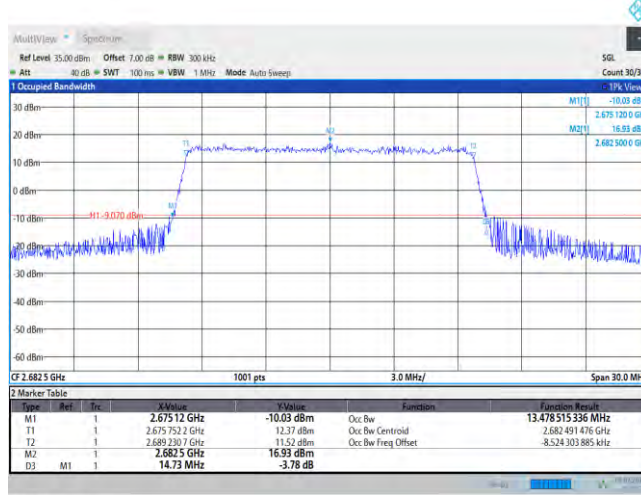
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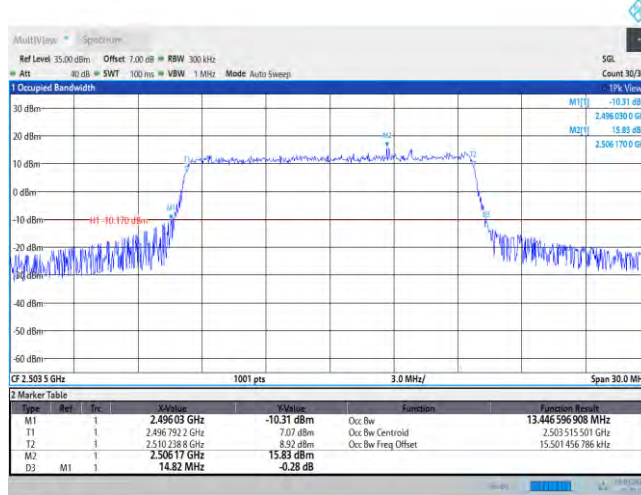
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Band41-15MHz-64QAM-41515-75RB#0



21:14:25 08.02.2022

Band41-15MHz-256QAM-39725-75RB#0



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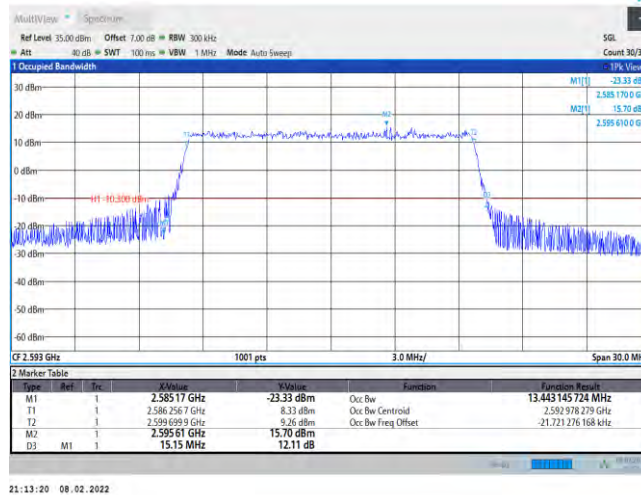
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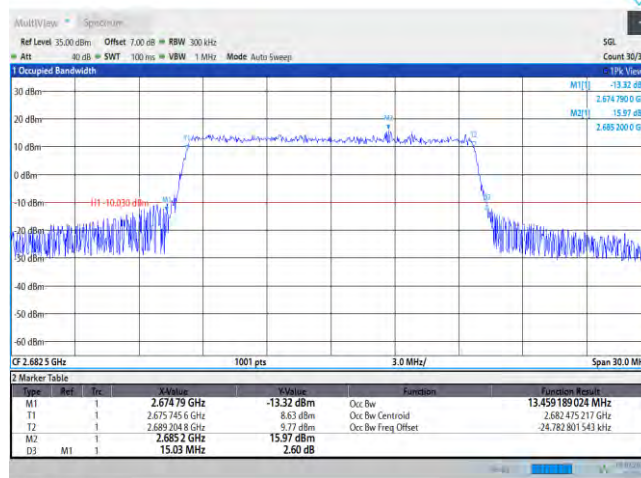
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Band41-15MHz-256QAM-41515-75RB#0



21:14:43 08.02.2022

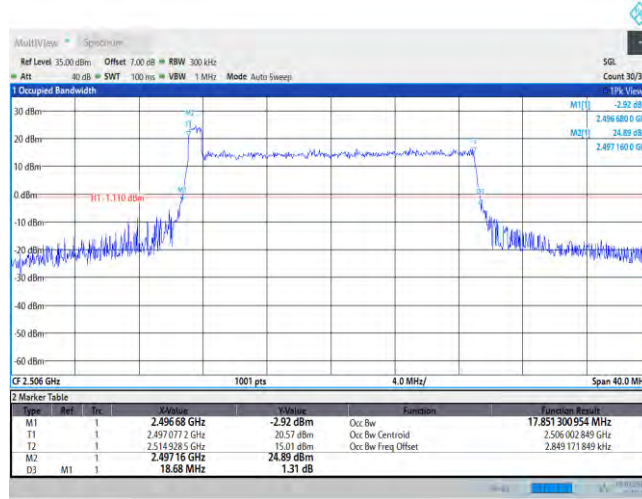


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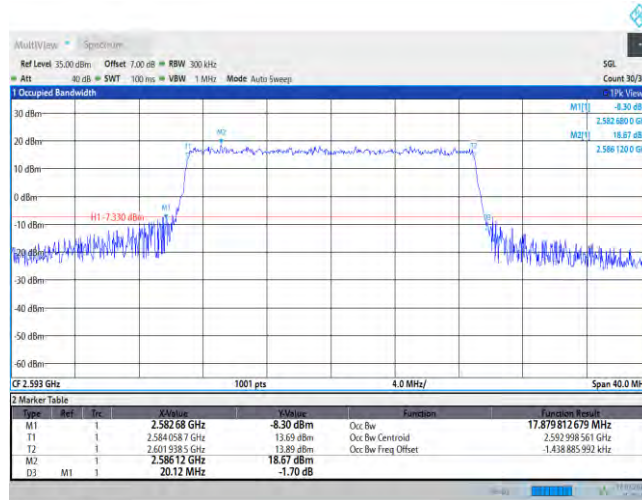
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Band41-20MHz-QPSK-39750-100RB#0



21:15:18 09.02.2022

Band41-20MHz-QPSK-40620-100RB#0



15:02:41 17.02.2022



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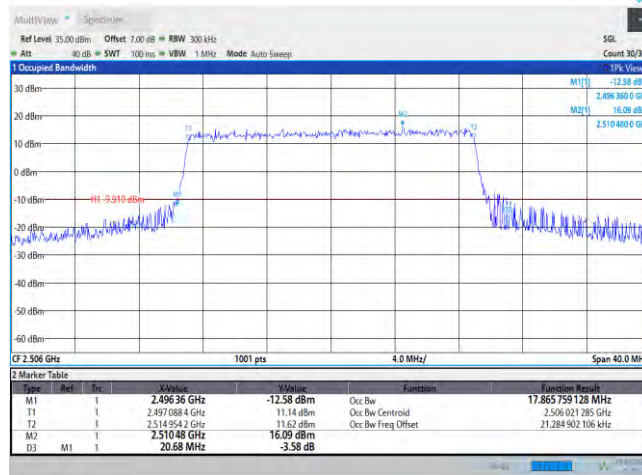
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Band41-20MHz-QPSK-41490-100RB#0



15:02:59 17.02.2022

Band41-20MHz-16QAM-39750-100RB#0



21:15:36 08.02.2022



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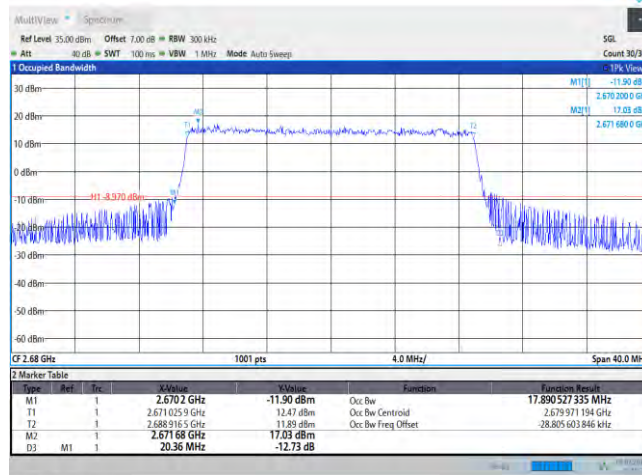


Band41-20MHz-16QAM-40620-100RB#0



21:16:59 08.02.2022

Band41-20MHz-16QAM-41490-100RB#0



21:18:22 08.02.2022



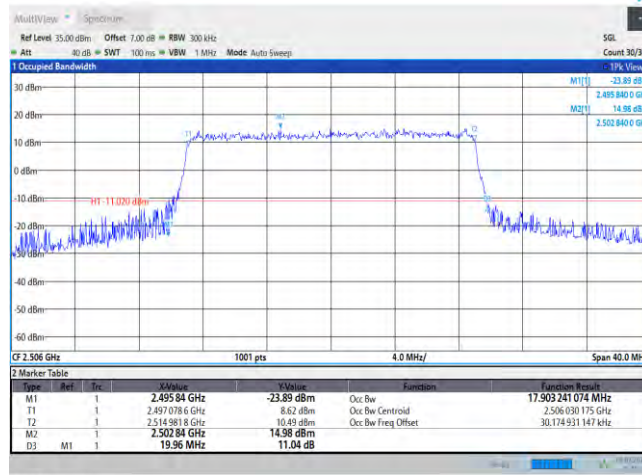
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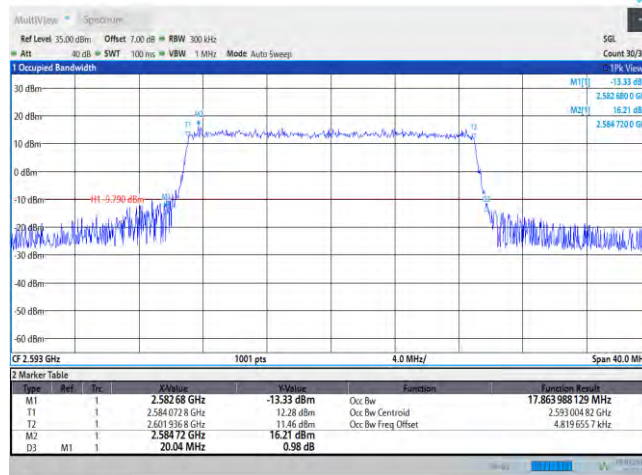
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Band41-20MHz-64QAM-39750-100RB#0



21:15:54 08.02.2022

Band41-20MHz-64QAM-40620-100RB#0



21:17:17 08.02.2022

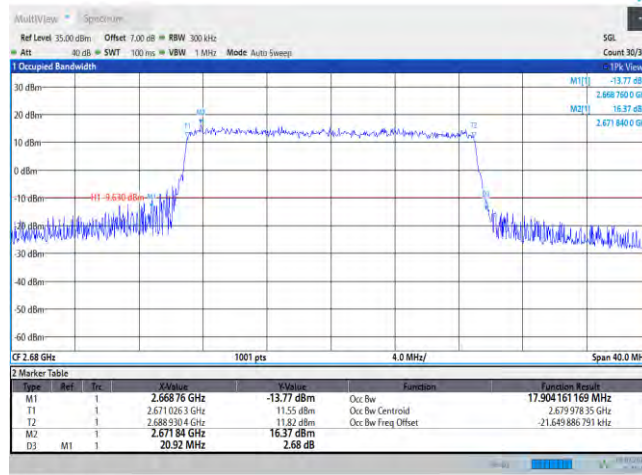


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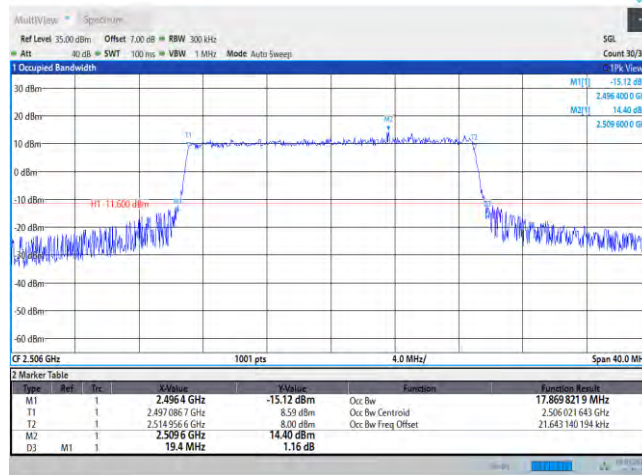
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Band41-20MHz-64QAM-41490-100RB#0



21:18:40 08.02.2022

Band41-20MHz-256QAM-39750-100RB#0



21:16:13 08.02.2022

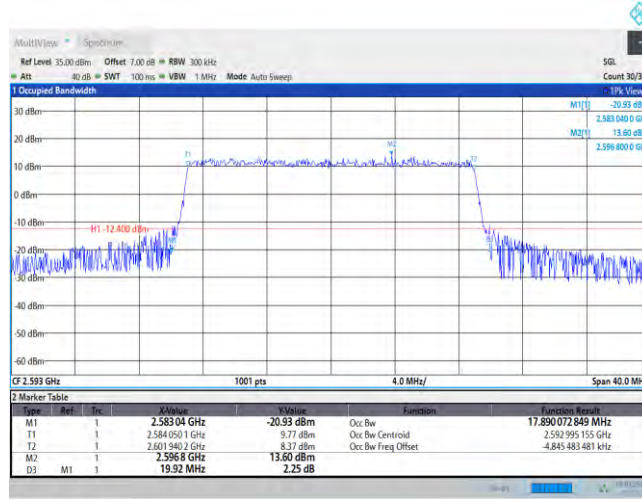


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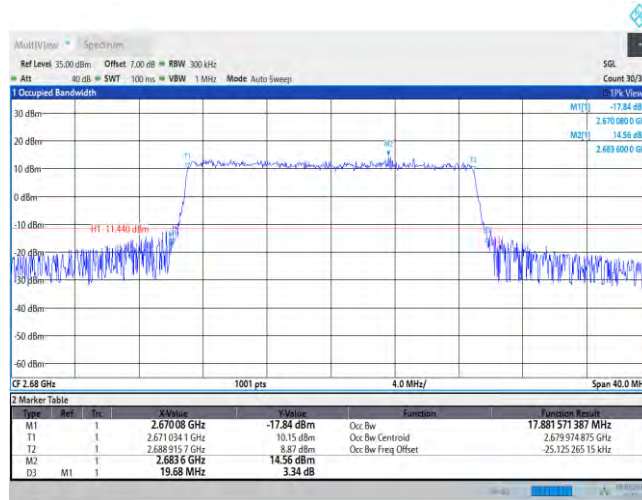
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Band41-20MHz-256QAM-40620-100RB#0



21:17:36 08.02.2022

Band41-20MHz-256QAM-41490-100RB#0



21:18:59 08.02.2022



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## Band Edge

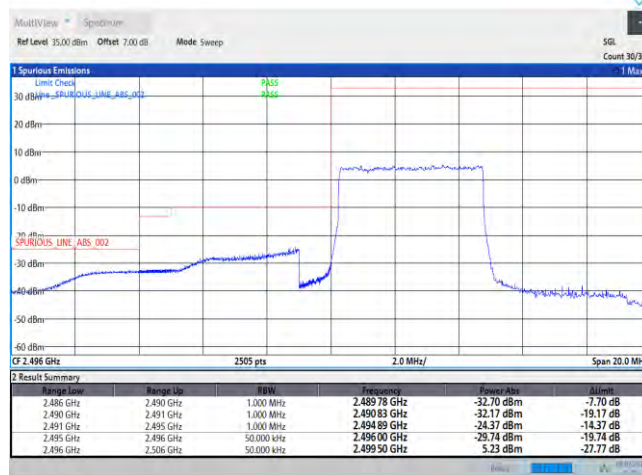
## Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



21:21:31 08.02.2022

Band41-5MHz-QPSK-39675-25RB#0



21:30:31 08.02.2022



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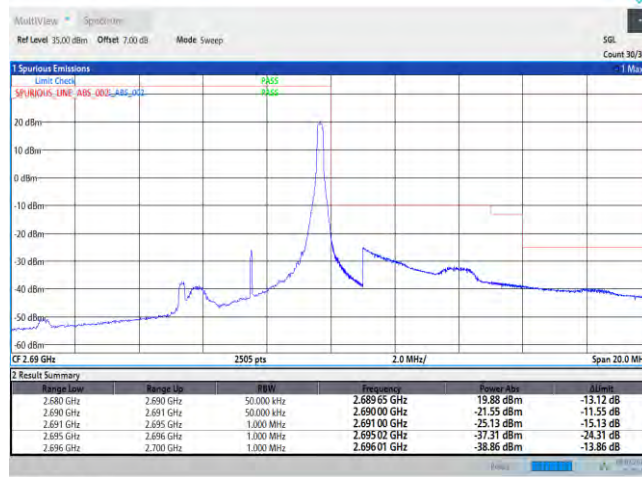
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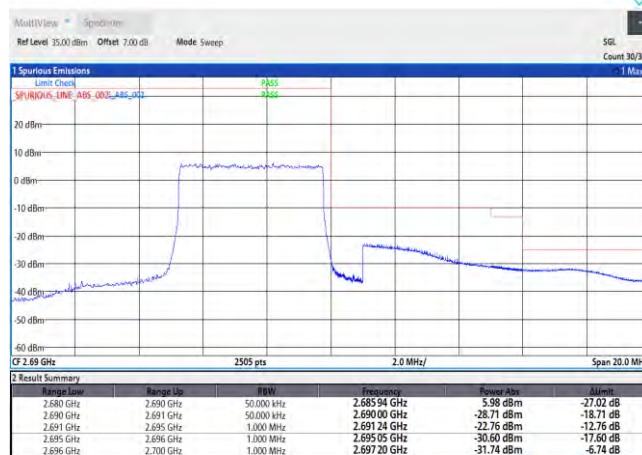
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Band41-5MHz-QPSK-41565-1RB#24



21:39:50 08.02.2022

Band41-5MHz-QPSK-41565-25RB#0



21:48:49 08.02.2022



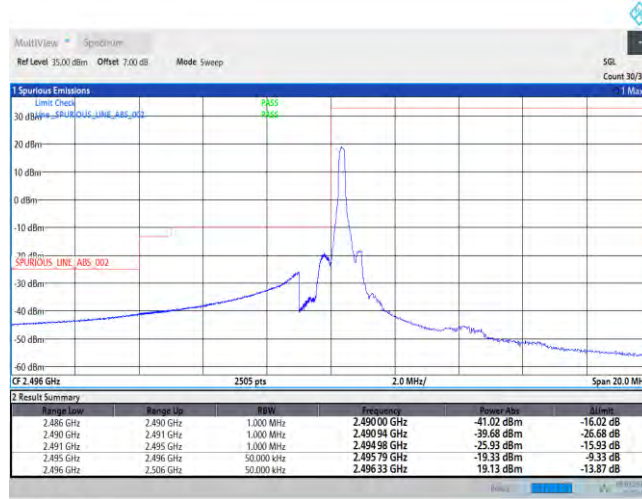
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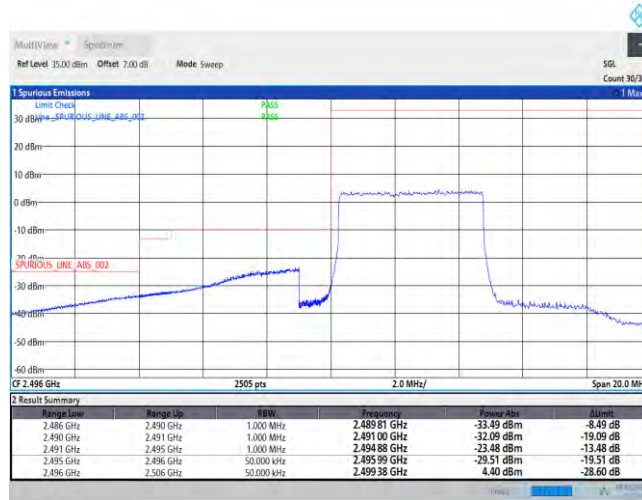
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Band41-5MHz-16QAM-39675-1RB#0



21:23:46 08.02.2022

Band41-5MHz-16QAM-39675-25RB#0



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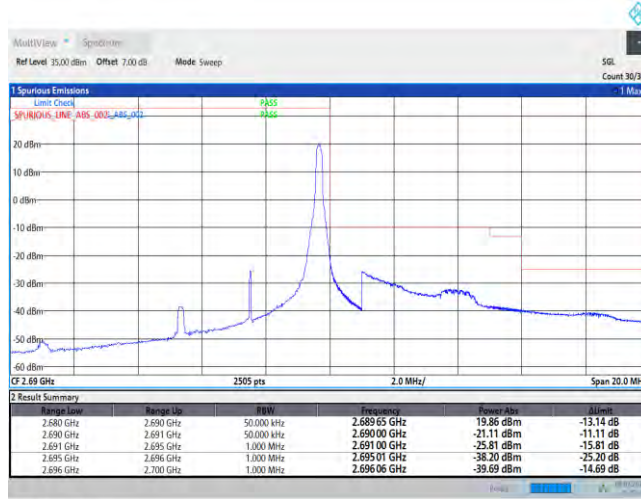
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### Band41-5MHz-16QAM-41565-1RB#24



21:42:04 08.02.2022

### Band41-5MHz-16QAM-41565-25RB#0



21:51:03 08.02.2022



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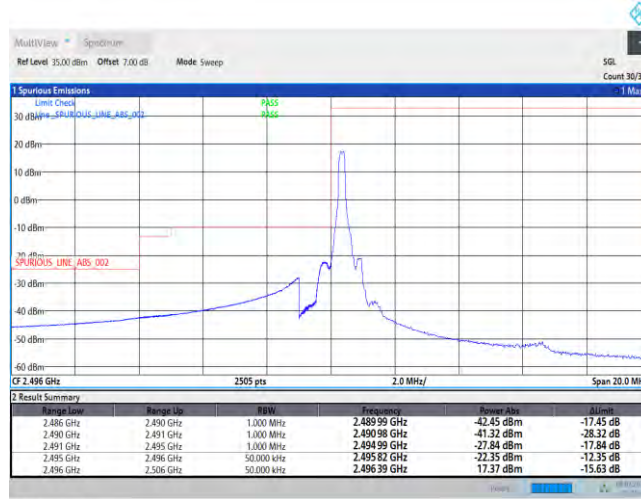
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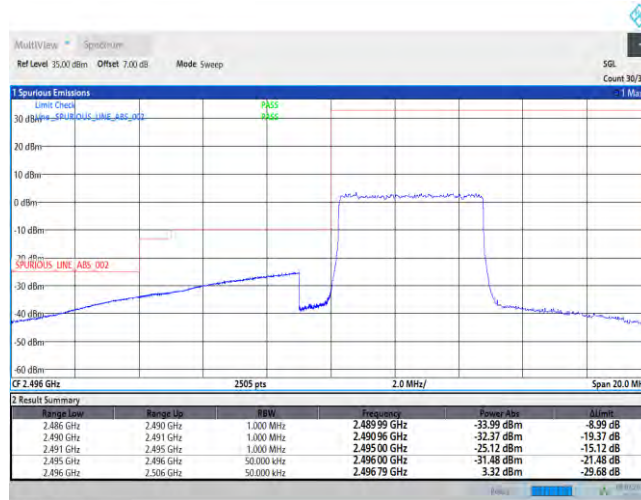


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21:35:00 08.02.2022



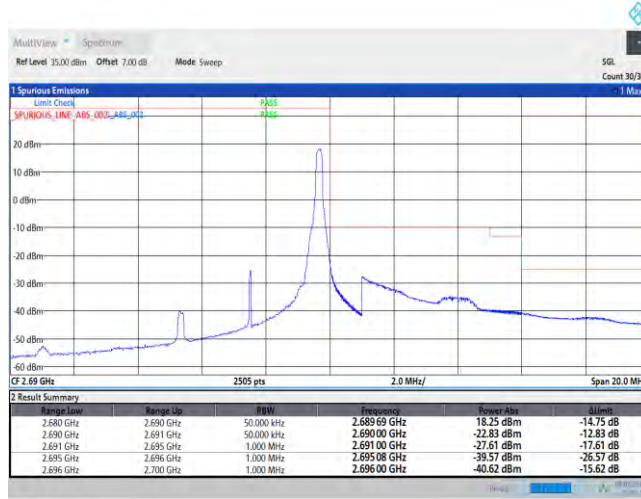
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Band41-5MHz-64QAM-41565-1RB#24



21:44:19 08.02.2022

Band41-5MHz-64QAM-41565-25RB#0



21:53:18 08.02.2022

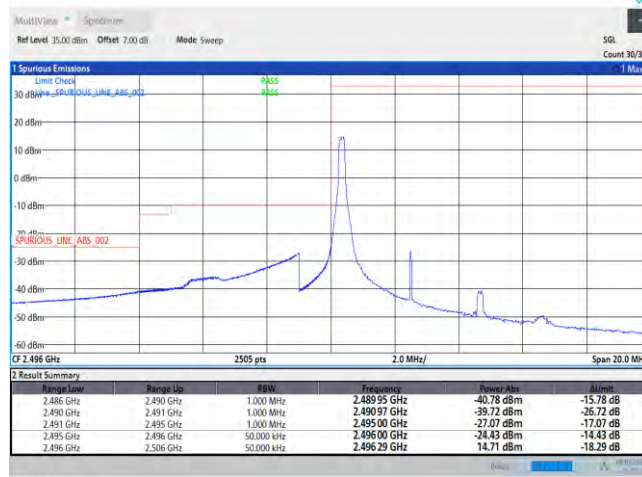


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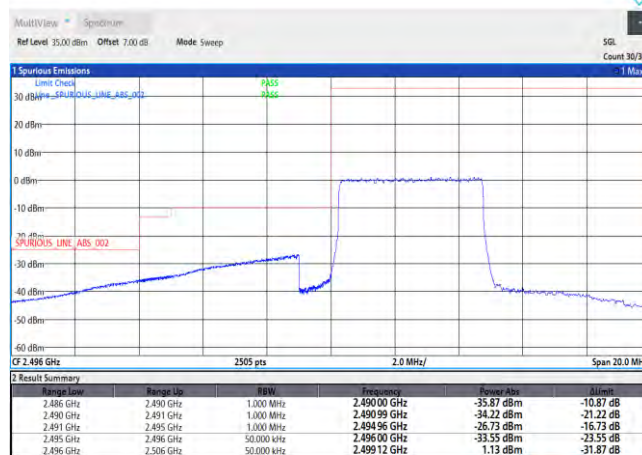
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Band41-5MHz-256QAM-39675-1RB#0



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Band41-5MHz-256QAM-39675-25RB#0



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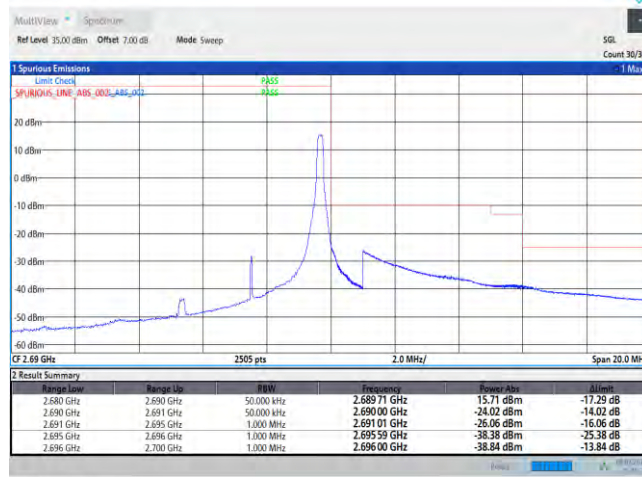


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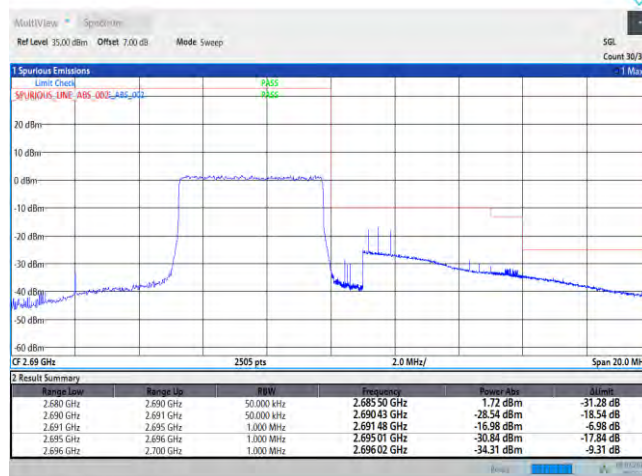
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### Band41-5MHz-256QAM-41565-1RB#24



21:46:34 08.02.2022

### Band41-5MHz-256QAM-41565-25RB#0



21:55:33 08.02.2022



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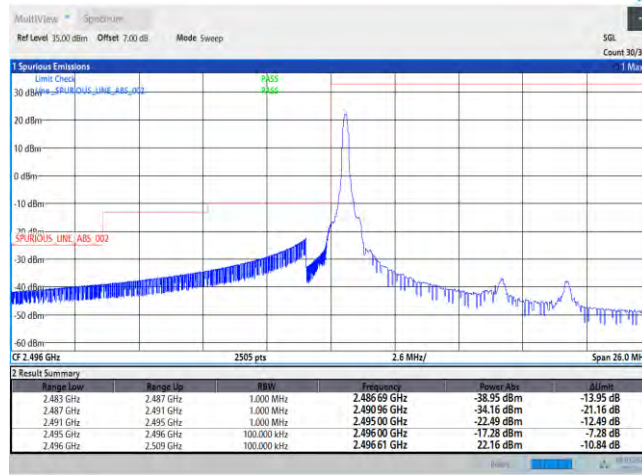
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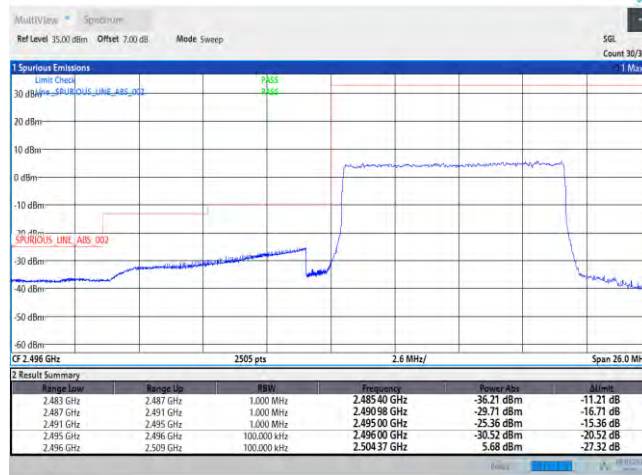
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Band41-10MHz-QPSK-39700-1RB#0



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Band41-10MHz-QPSK-39700-50RB#0



22:07:07 08.02.2022



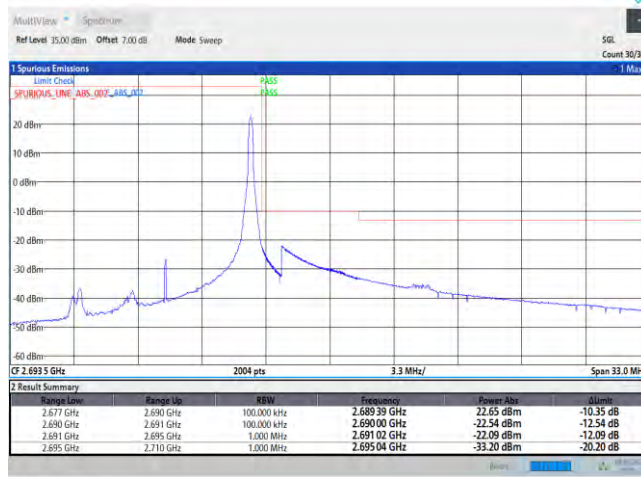
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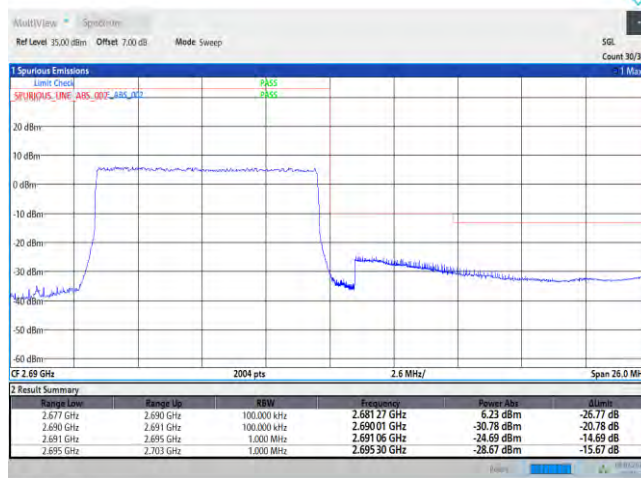
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Band41-10MHz-QPSK-41540-1RB#49



22:16:24 08.02.2022

Band41-10MHz-QPSK-41540-50RB#0



22:25:24 08.02.2022



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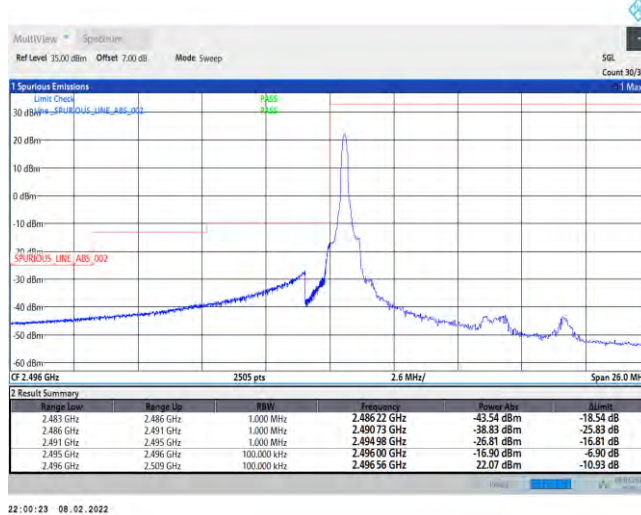
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### Band41-10MHz-16QAM-39700-1RB#0



### Band41-10MHz-16QAM-39700-50RB#0



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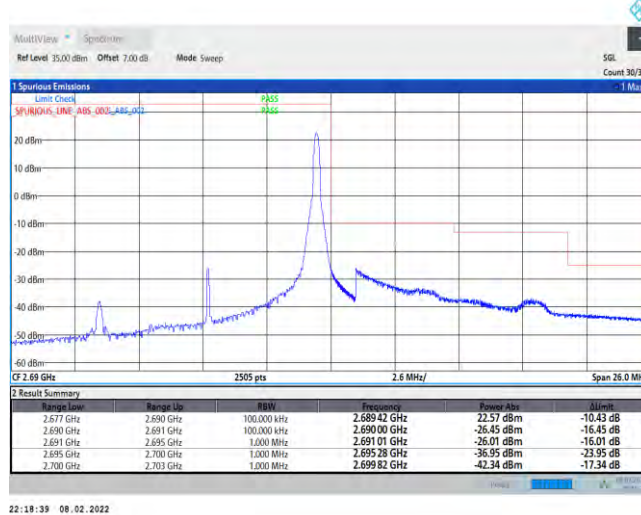
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Band41-10MHz-16QAM-41540-1RB#49



22:18:39 08.02.2022

Band41-10MHz-16QAM-41540-50RB#0



22:27:38 08.02.2022



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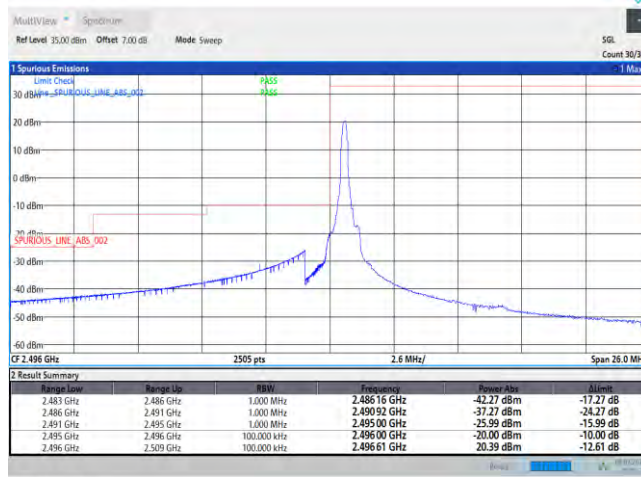
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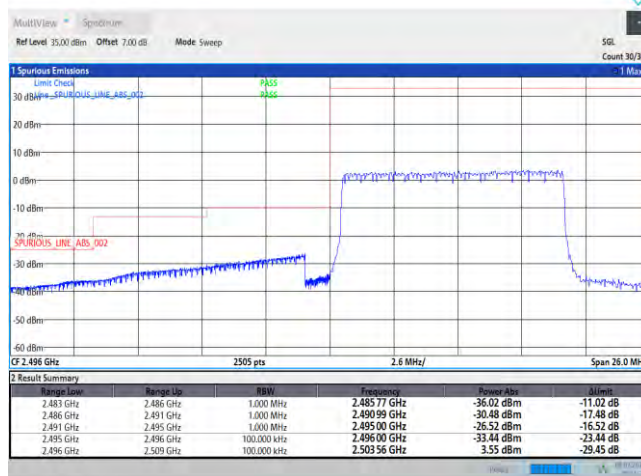


Band41-10MHz-64QAM-39700-1RB#0



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Band41-10MHz-64QAM-39700-50RB#0



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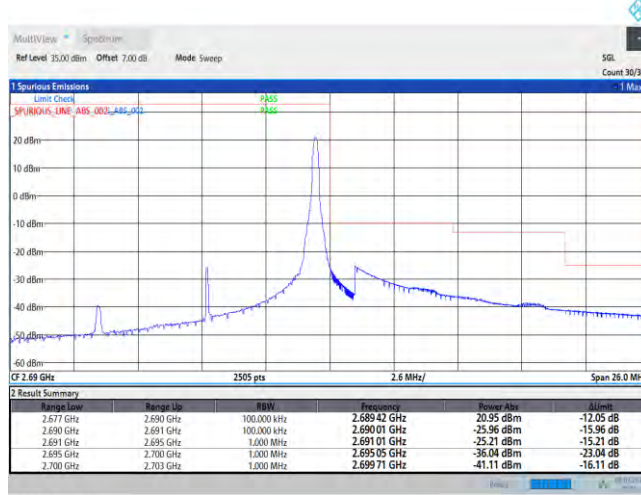
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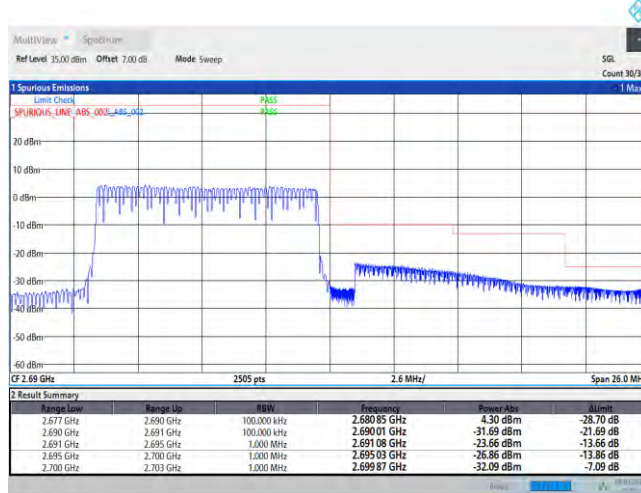
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22:29:53 08.02.2022



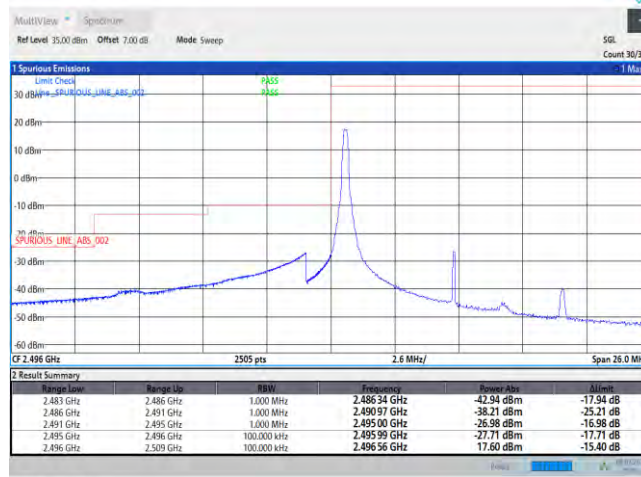
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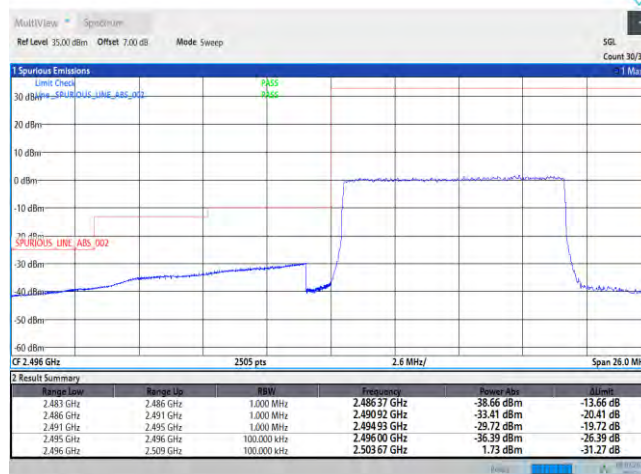
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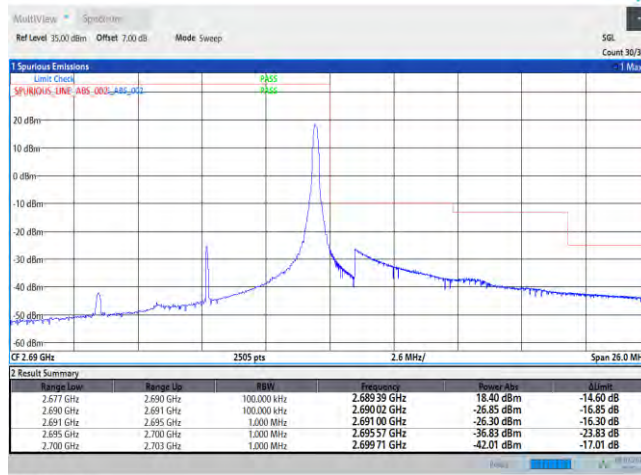
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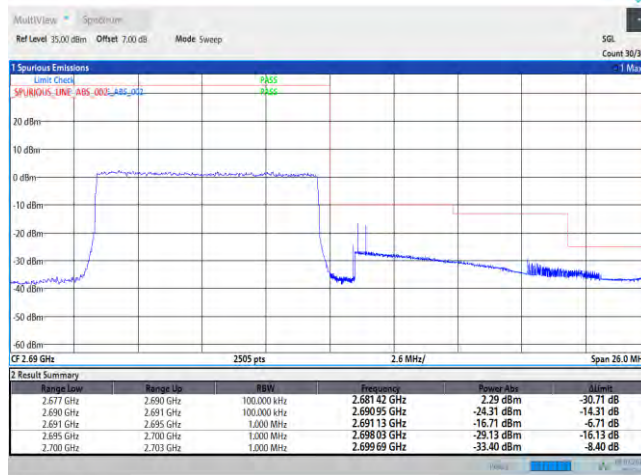
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Band41-10MHz-256QAM-41540-1RB#49



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Band41-10MHz-256QAM-41540-50RB#0



22:32:08 08.02.2022



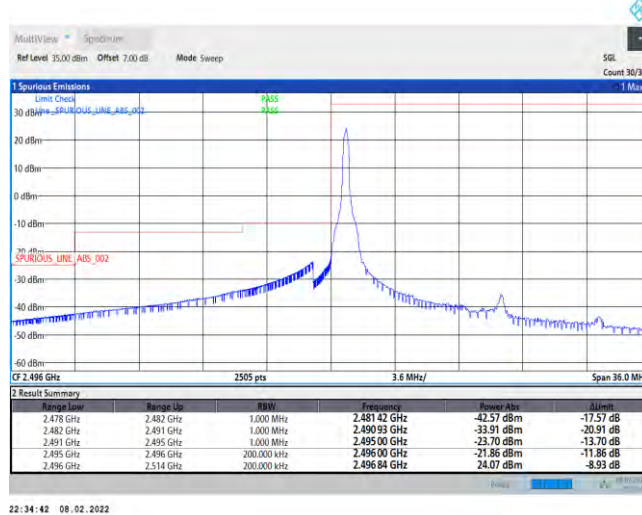
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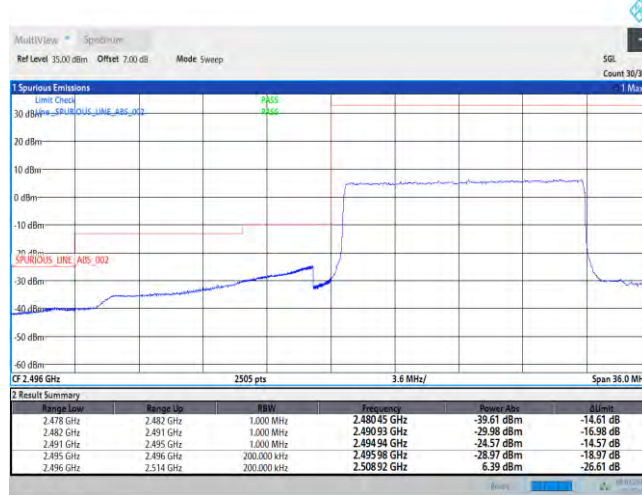
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Band41-15MHz-QPSK-39725-75RB#0



22:43:41 08.02.2022



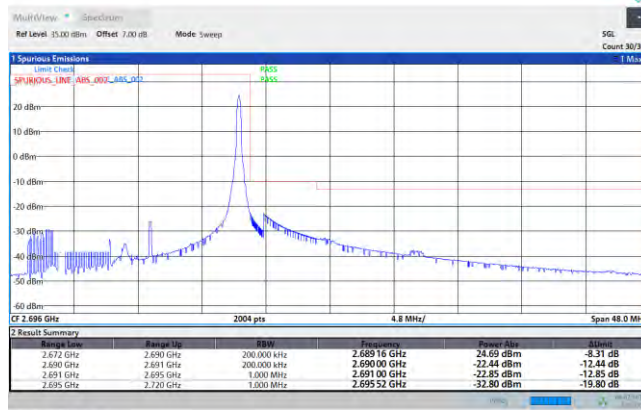
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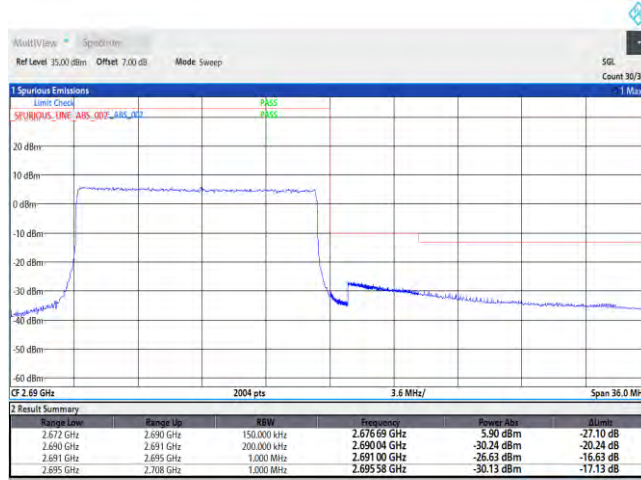
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Band41-15MHz-QPSK-41515-1RB#74



22:53:06 09.02.2022

Band41-15MHz-QPSK-41515-75RB#0



23:02:05 09.02.2022



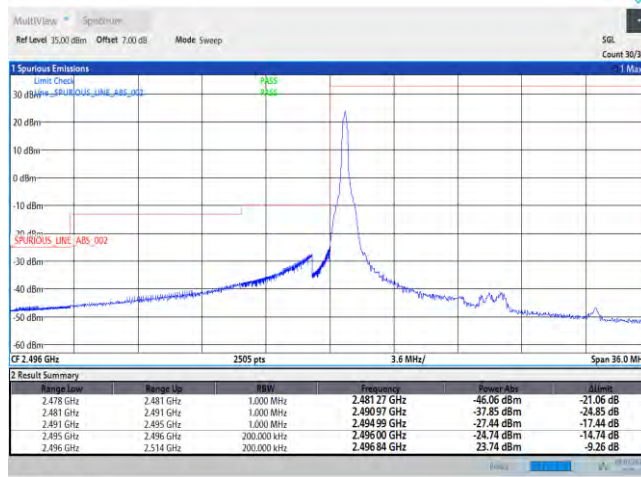
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### Band41-15MHz-16QAM-39725-1RB#0



22:36:56 08.02.2022

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22:45:55 08.02.2022



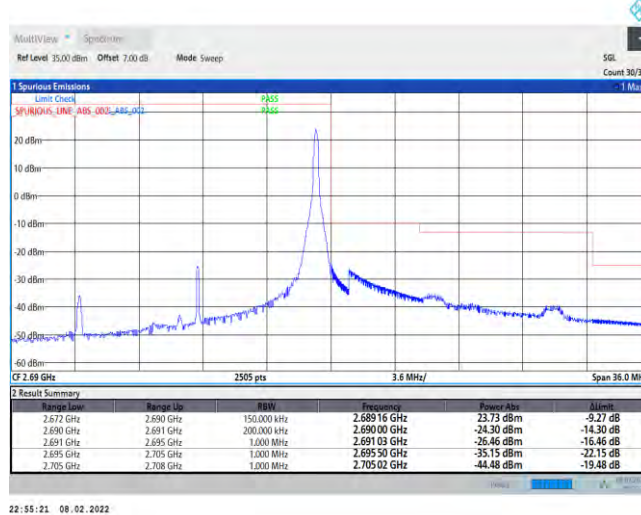
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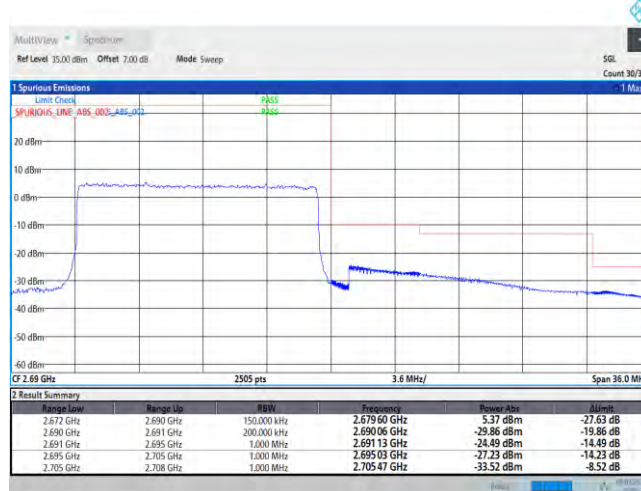
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Band41-15MHz-16QAM-41515-1RB#74



22:55:21 08.02.2022

Band41-15MHz-16QAM-41515-75RB#0



23:04:20 08.02.2022



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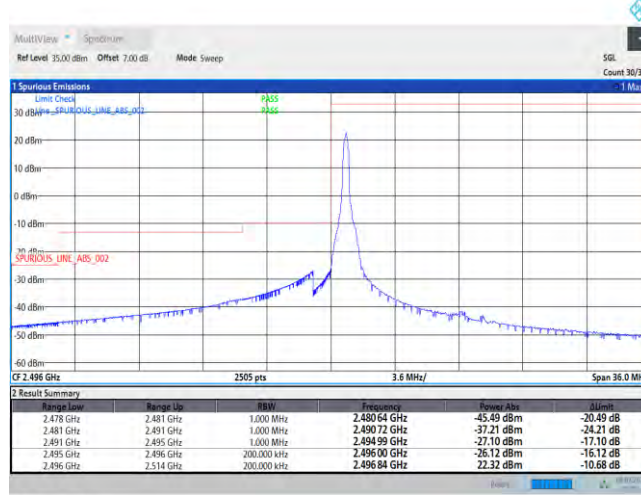
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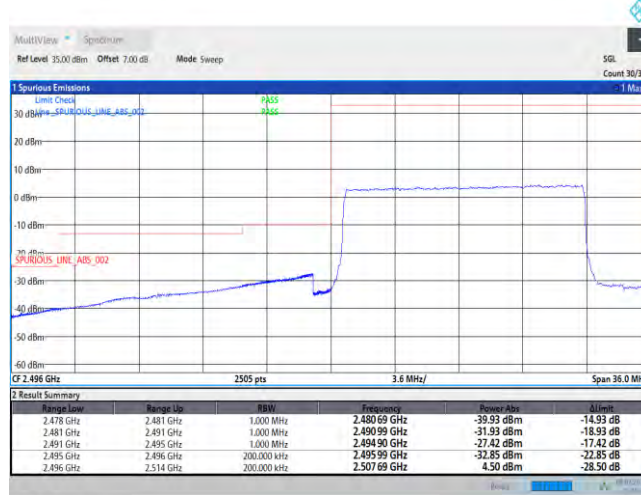


### Band41-15MHz-64QAM-39725-1RB#0



22:39:11 08.02.2022

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22:49:10 08.02.2022



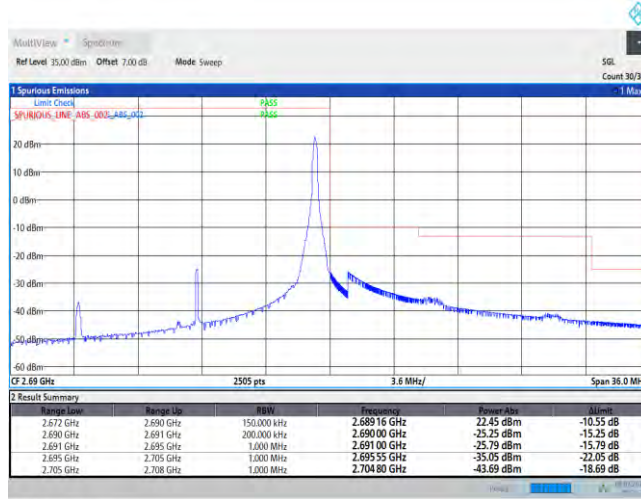
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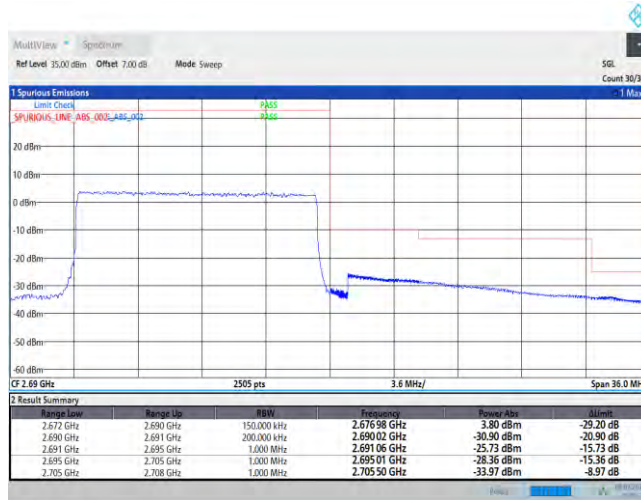
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### Band41-15MHz-64QAM-41515-1RB#74



22:57:36 08.02.2022

### Band41-15MHz-64QAM-41515-75RB#0



23:06:35 08.02.2022



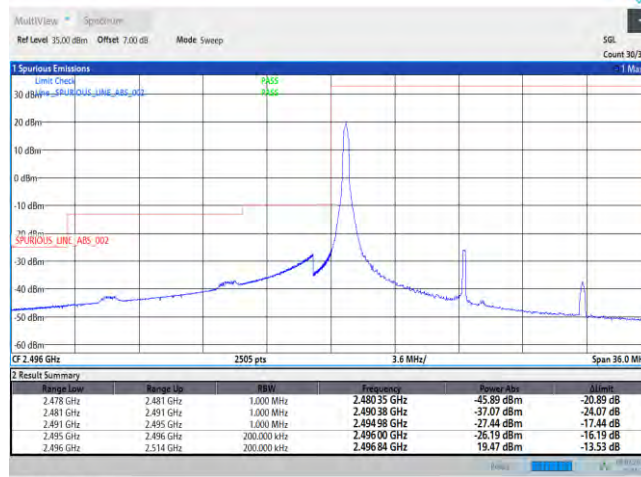
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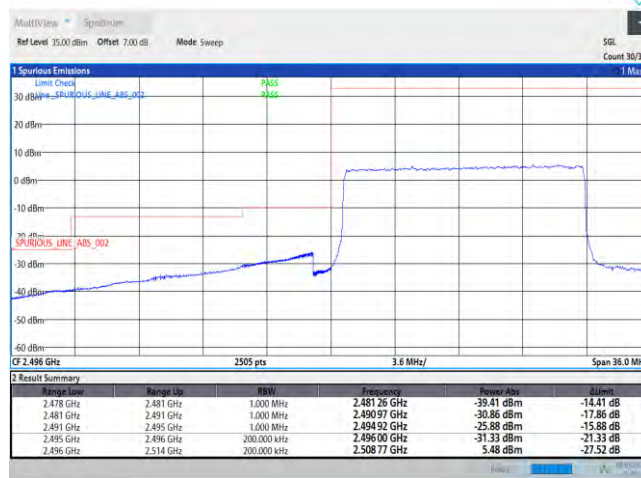
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Band41-15MHz-256QAM-39725-1RB#0



22:41:26 08.02.2022

Band41-15MHz-256QAM-39725-75RB#0



22:45:55 08.02.2022



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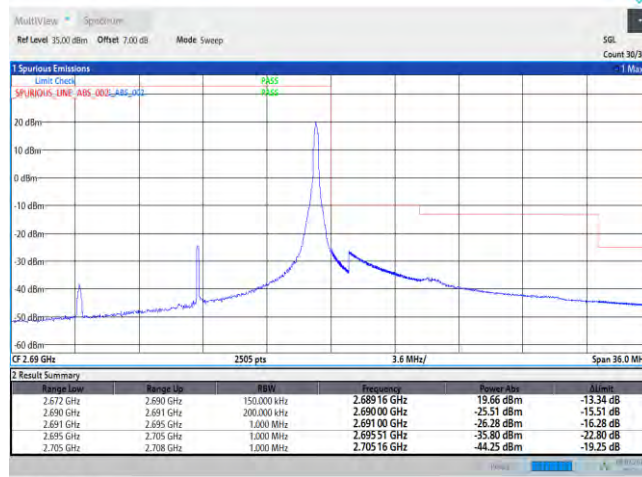
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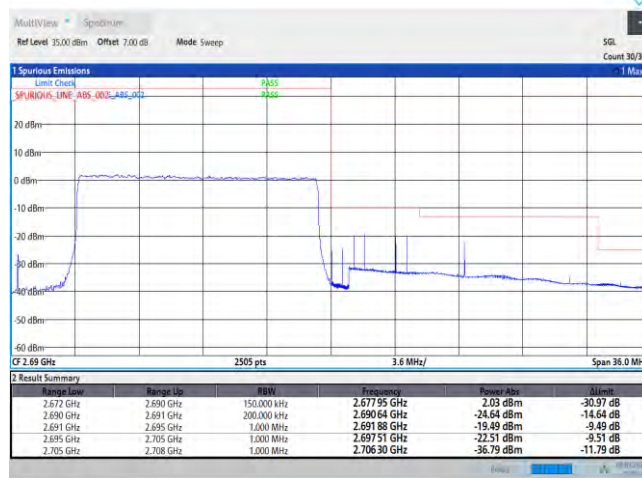
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Band41-15MHz-256QAM-41515-1RB#74



22:59:51 08.02.2022

Band41-15MHz-256QAM-41515-75RB#0



23:08:49 08.02.2022

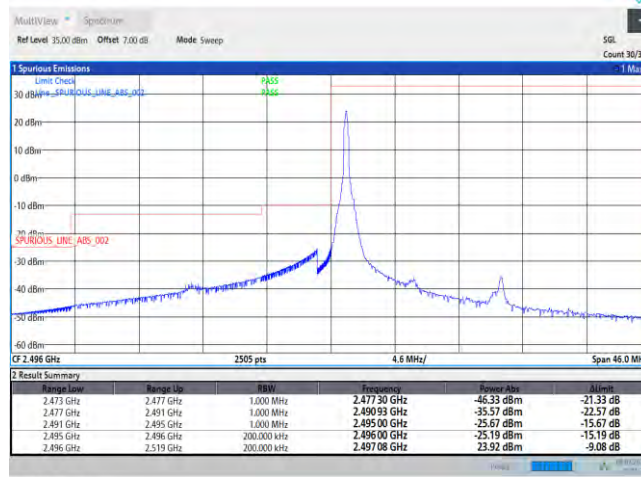


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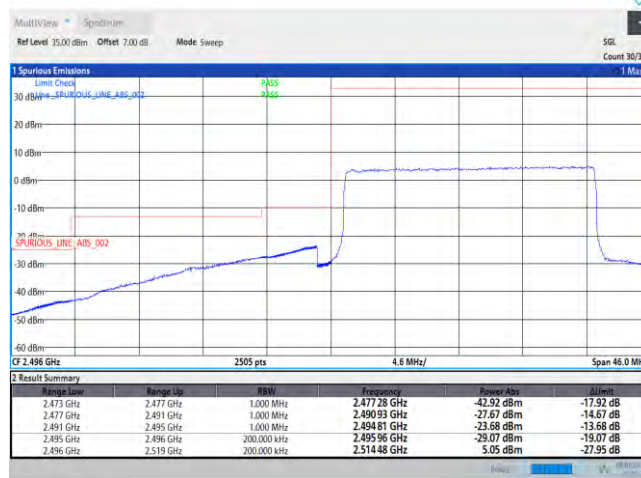
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### Band41-20MHz-QPSK-39750-1RB#0



23:11:25 08.02.2022

### Band41-20MHz-QPSK-39750-100RB#0



23:20:26 08.02.2022



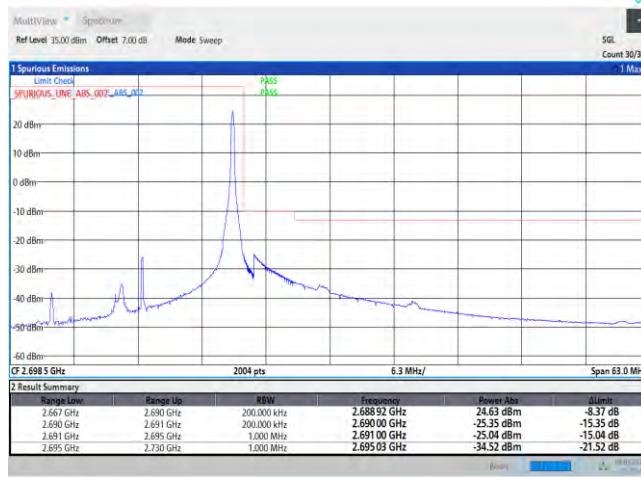
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Band41-20MHz-QPSK-41490-1RB#99



23:29:46 08.02.2022

Band41-20MHz-QPSK-41490-100RB#0



23:38:45 08.02.2022



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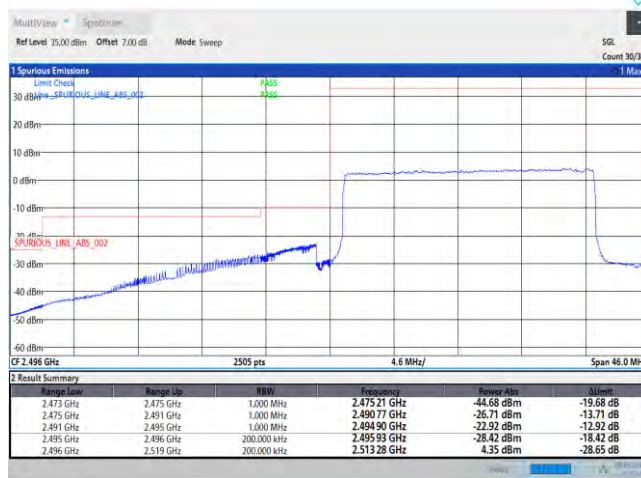
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### Band41-20MHz-16QAM-39750-1RB#0



23:13:40 08.02.2022

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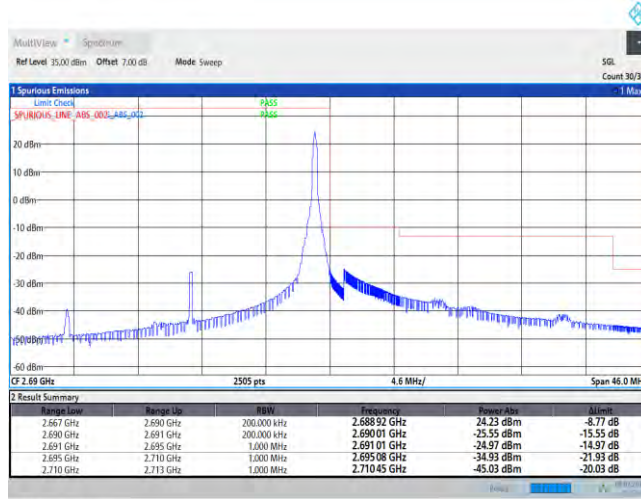
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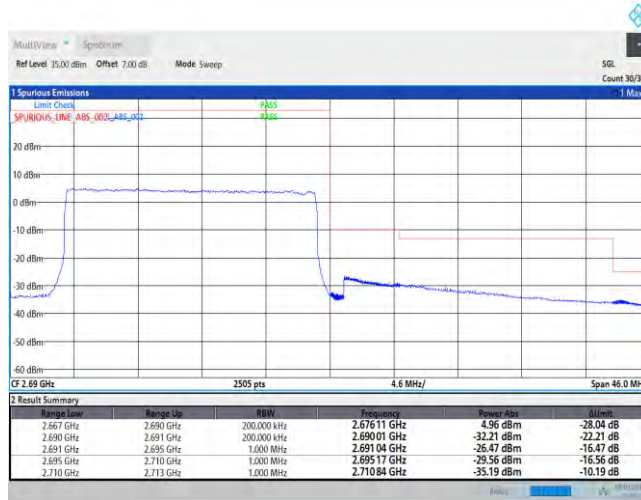
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Band41-20MHz-16QAM-41490-1RB#99



23:32:01 08.02.2022

Band41-20MHz-16QAM-41490-100RB#0



23:41:00 08.02.2022



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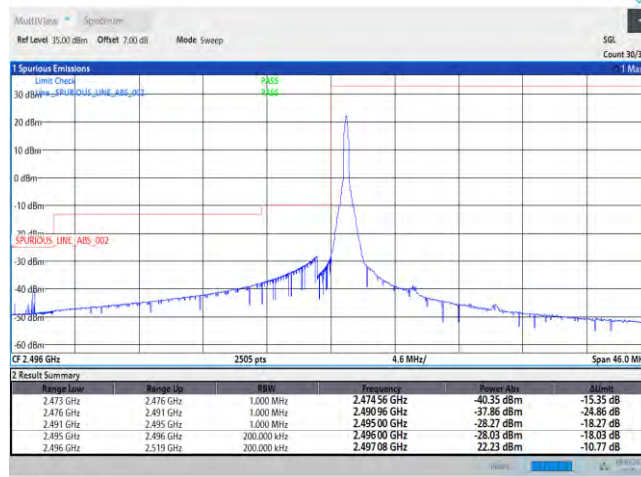
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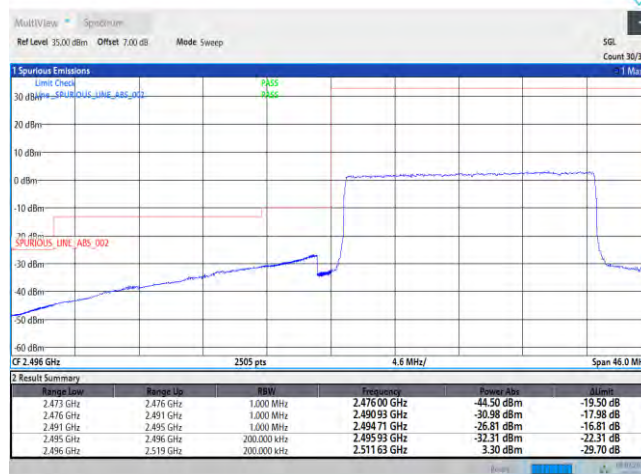


### Band41-20MHz-64QAM-39750-1RB#0



23:15:55 08.02.2022

### Band41-20MHz-64QAM-39750-100RB#0



23:24:56 08.02.2022



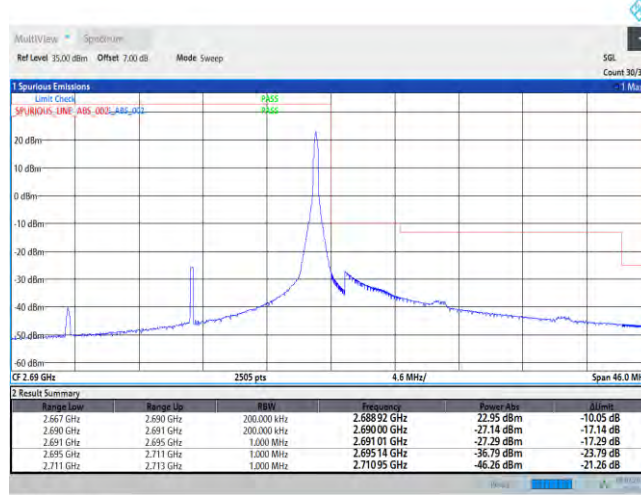
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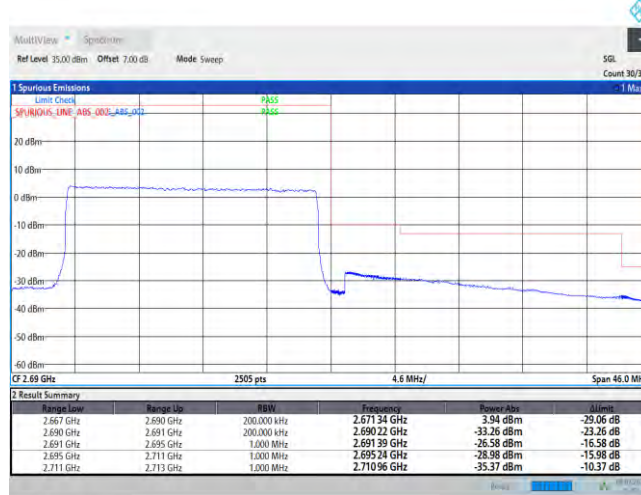
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Band41-20MHz-64QAM-41490-1RB#99



23:34:16 08.02.2022

Band41-20MHz-64QAM-41490-100RB#0



23:43:15 08.02.2022



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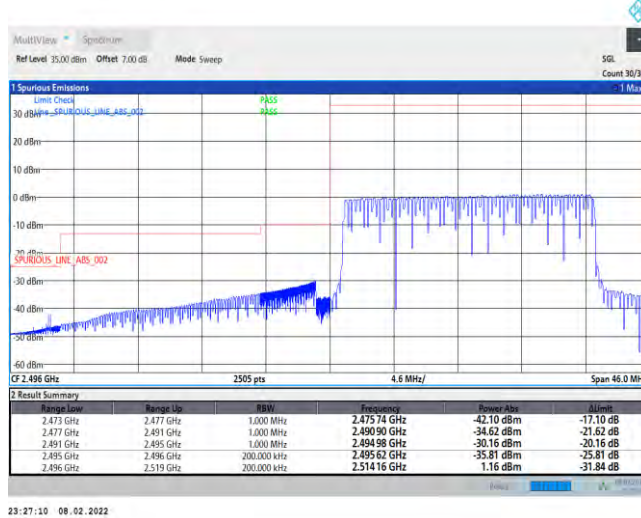
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### Band41-20MHz-256QAM-39750-1RB#0



### Band41-20MHz-256QAM-39750-100RB#0



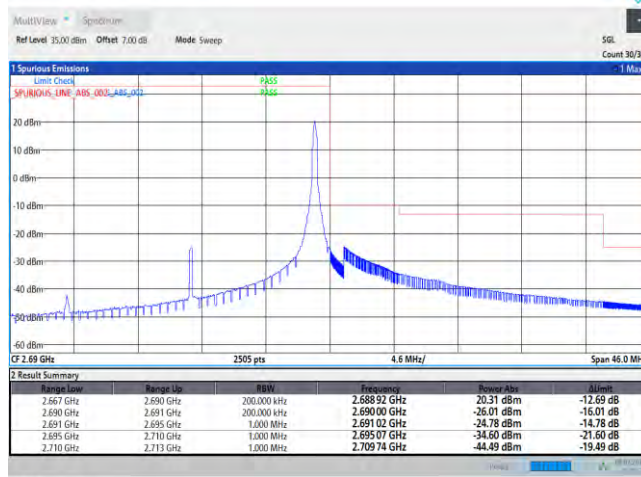
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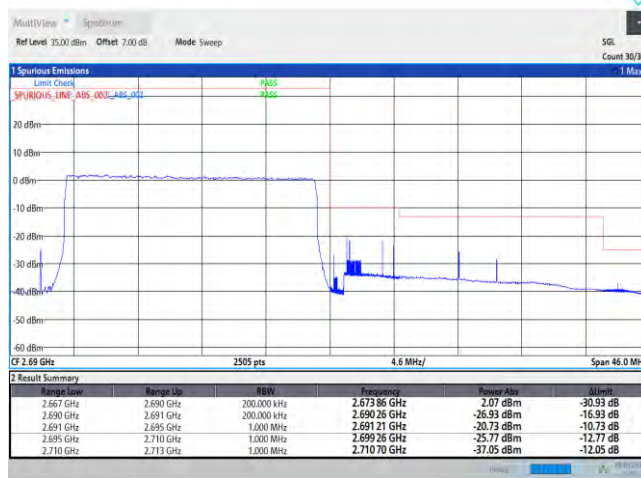
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Band41-20MHz-256QAM-41490-1RB#99



23:36:31 08.02.2022

Band41-20MHz-256QAM-41490-100RB#0



23:45:29 08.02.2022



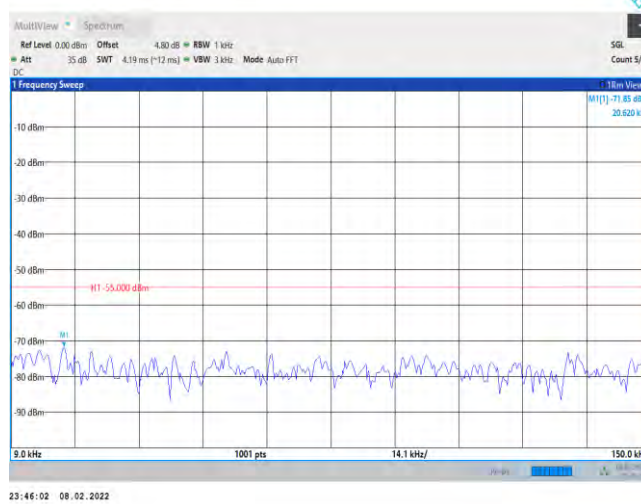
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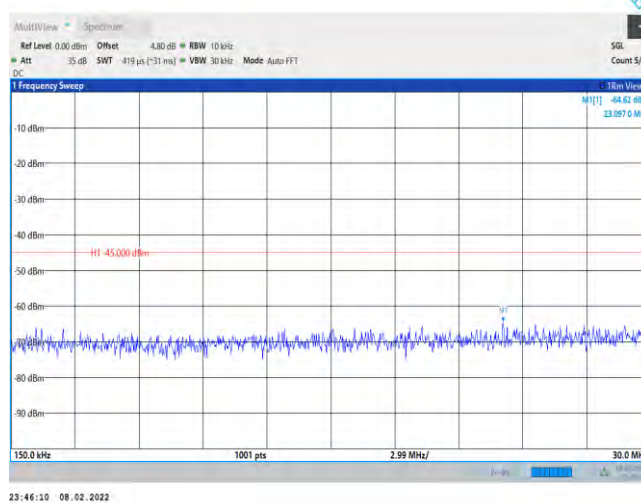
## Conducted Spurious Emission

### Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



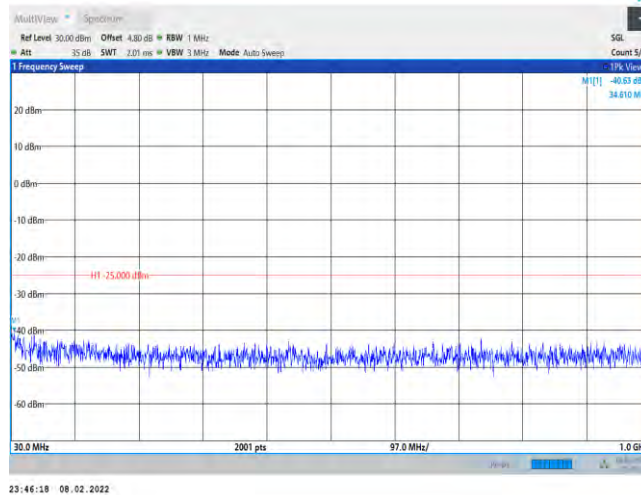
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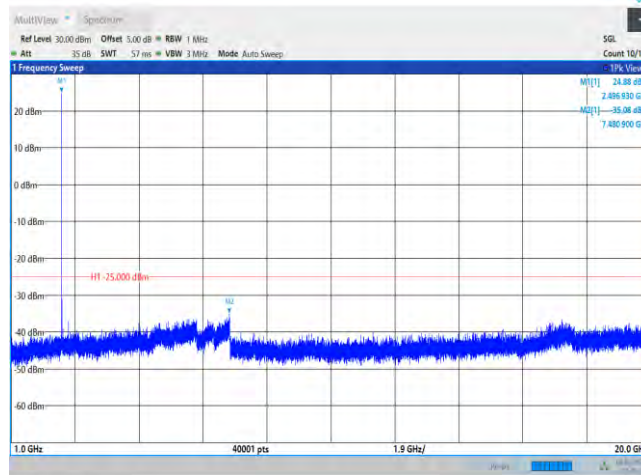
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



23:46:18 08.02.2022

Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



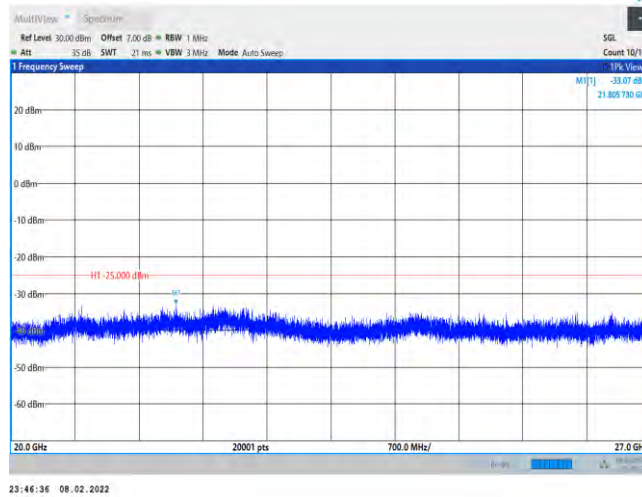
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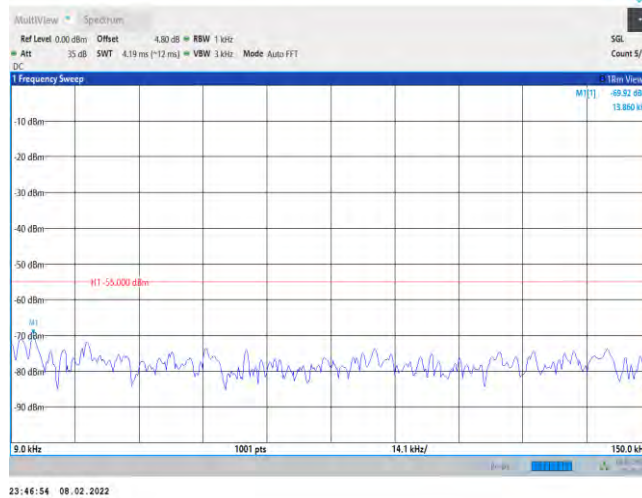
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



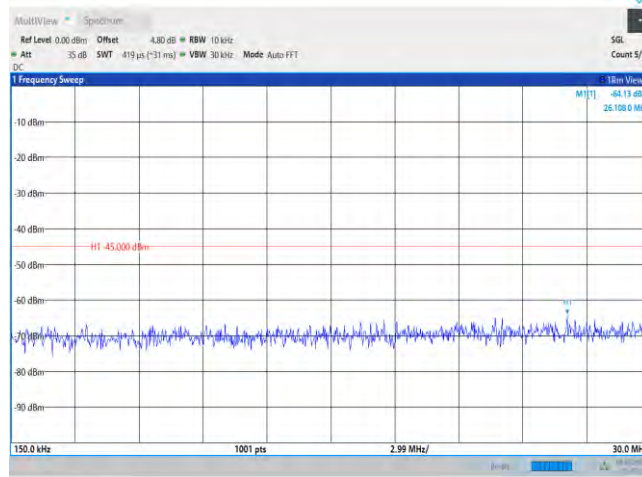
Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



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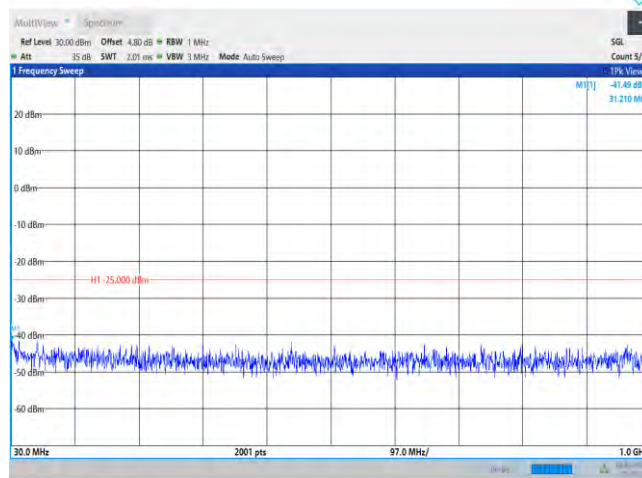
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



23:47:03 08.02.2022

Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



23:47:11 08.02.2022

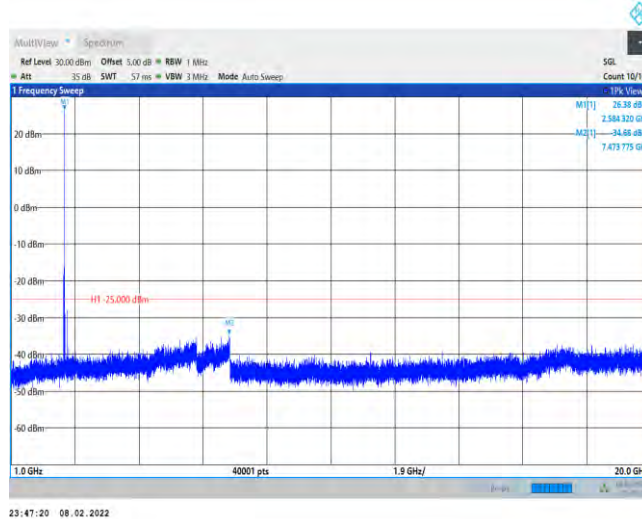


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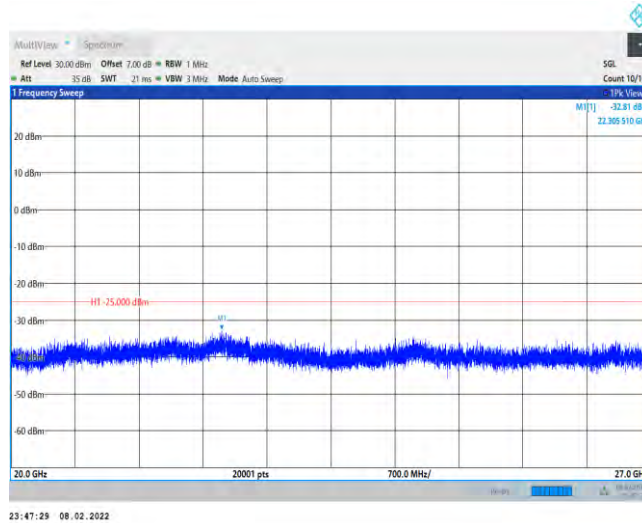
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



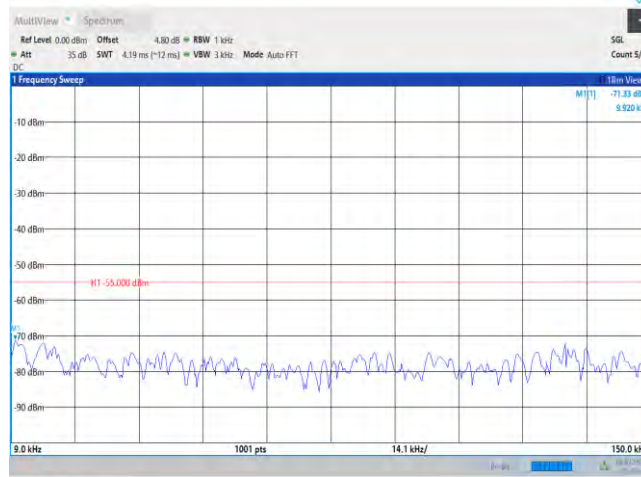
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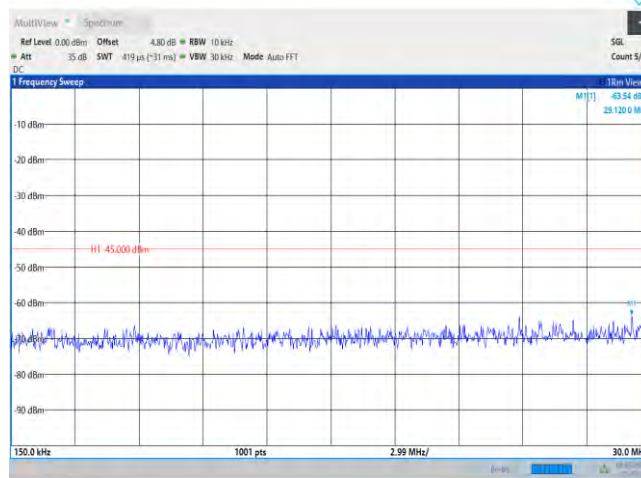
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



23:47:47 08.02.2022

Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



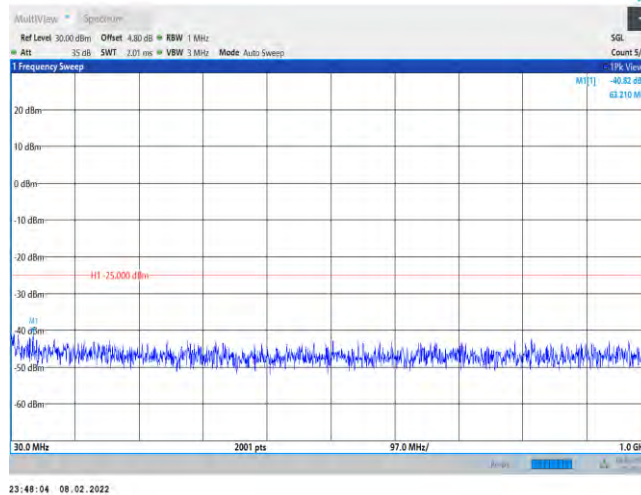
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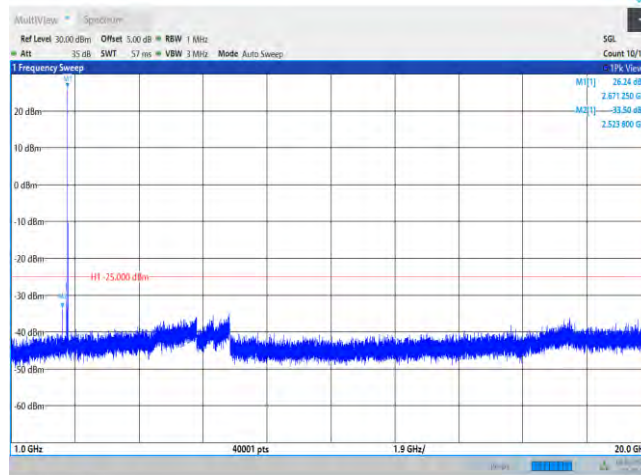
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



23:48:04 08.02.2022

Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



23:48:13 08.02.2022

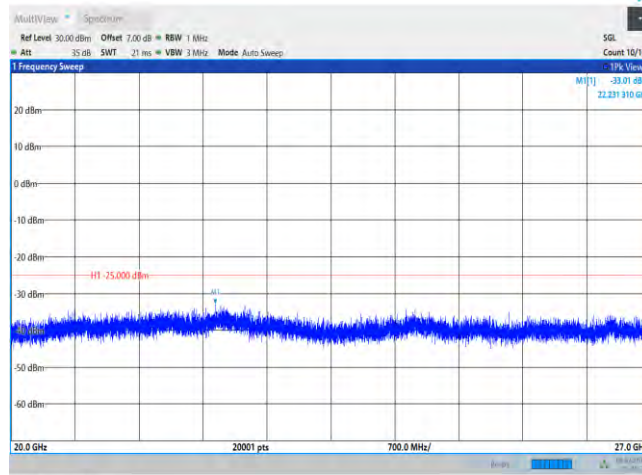


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band =LTE Band 41\_ TM1 ANT2

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	50.29	-107.58	-57.29	-25.00	32.29	136	46	Horizontal
2	7503.27	48.72	-100.34	-51.62	-25.00	26.62	256	139	Horizontal
3	10004.36	44.09	-93.89	-49.80	-25.00	24.80	144	12	Horizontal
4	12505.45	49.98	-91.38	-41.40	-25.00	16.40	185	22	Horizontal
5	15006.54	42.21	-90.07	-47.86	-25.00	22.86	197	199	Horizontal
6	17507.63	38.76	-86.50	-47.74	-25.00	22.74	182	12	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	49.82	-107.58	-57.76	-25.00	32.76	400	255	Vertical
2	7503.27	47.56	-100.34	-52.78	-25.00	27.78	145	352	Vertical
3	10004.36	46.03	-93.89	-47.86	-25.00	22.86	133	315	Vertical
4	12505.45	52.27	-91.38	-39.11	-25.00	14.11	203	11	Vertical
5	15006.54	42.77	-90.07	-47.30	-25.00	22.30	188	339	Vertical
6	17507.63	38.75	-86.50	-47.75	-25.00	22.75	193	80	Vertical



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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

Test Band =LTE Band 41\_ TM1 ANT2

Test Channel =Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3595.7143	50.38	-110.87	-60.49	-25.00	35.49	128	166	Horizontal
2	5168.18	49.53	-106.85	-57.32	-25.00	32.32	194	185	Horizontal
3	7752.27	48.04	-99.21	-51.17	-25.00	26.17	135	45	Horizontal
4	10336.36	44.03	-93.09	-49.06	-25.00	24.06	174	162	Horizontal
5	12920.45	43.10	-90.61	-47.51	-25.00	22.51	205	266	Horizontal
6	15504.54	40.70	-90.87	-50.17	-25.00	25.17	133	69	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3938.5714	52.52	-110.28	-57.76	-25.00	32.76	122	359	Vertical
2	5168.18	49.88	-106.85	-56.97	-25.00	31.97	146	278	Vertical
3	7752.27	47.79	-99.21	-51.42	-25.00	26.42	133	44	Vertical
4	10336.36	42.97	-93.09	-50.12	-25.00	25.12	178	314	Vertical
5	12920.45	44.54	-90.61	-46.07	-25.00	21.07	195	22	Vertical
6	15504.54	40.30	-90.87	-50.57	-25.00	25.57	111	359	Vertical



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Test Band =LTE Band 41\_ TM1 ANT2

Test Channel =High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4367.1429	51.31	-108.99	-57.68	-25.00	32.68	194	187	Horizontal
2	5342.18	51.30	-106.75	-55.45	-25.00	30.45	188	360	Horizontal
3	8013.27	44.81	-98.13	-53.32	-25.00	28.32	175	247	Horizontal
4	10684.36	43.13	-91.77	-48.64	-25.00	23.64	165	129	Horizontal
5	13355.45	41.41	-90.59	-49.18	-25.00	24.18	148	46	Horizontal
6	16026.54	41.82	-90.77	-48.95	-25.00	23.95	191	344	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4418.5714	50.59	-108.86	-58.27	-25.00	33.27	260	295	Vertical
2	5342.18	50.23	-106.75	-56.52	-25.00	31.52	203	224	Vertical
3	8013.27	45.98	-98.13	-52.15	-25.00	27.15	180	354	Vertical
4	10684.36	42.90	-91.77	-48.87	-25.00	23.87	175	153	Vertical
5	13355.45	42.58	-90.59	-48.01	-25.00	23.01	194	188	Vertical
6	16026.54	41.24	-90.77	-49.53	-25.00	24.53	126	117	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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

## Frequency Stability

### Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.70	-0.000656	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	1.10	0.000424	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	4.30	0.001658	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-5.10	-0.001967	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	2.80	0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	3.50	0.001350	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	3.10	0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	1.90	0.000733	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	4.90	0.001890	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-2.70	-0.001041	PASS

The End



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