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# Appendix B.12

## LTE Band 66



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	22.71	24.71	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.46	24.46	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.28	24.28	30	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.57	23.57	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.5	24.5	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.7	24.7	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.42	24.42	30	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.41	23.41	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.41	24.41	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.42	24.42	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.39	24.39	30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.41	23.41	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.49	23.49	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	21.31	23.31	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.4	23.4	30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.28	22.28	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.18	23.18	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.23	23.23	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.16	23.16	30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.58	22.58	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.61	23.61	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.42	23.42	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.33	23.33	30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.52	22.52	30	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.76	24.76	30	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.47	24.47	30	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.54	24.54	30	PASS



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Band66	3MHz	QPSK	131987	15RB#0	21.51	23.51	30	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.51	24.51	30	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.65	24.65	30	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.52	24.52	30	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.48	23.48	30	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.69	24.69	30	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.67	24.67	30	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.41	24.41	30	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.48	23.48	30	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.37	23.37	30	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.36	23.36	30	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.41	23.41	30	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.55	22.55	30	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.53	23.53	30	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.35	23.35	30	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.33	23.33	30	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.39	22.39	30	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.98	23.98	30	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.16	23.16	30	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.38	23.38	30	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.5	22.5	30	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.81	24.81	30	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.66	24.66	30	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.44	24.44	30	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.49	23.49	30	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.81	24.81	30	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.54	24.54	30	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.18	24.18	30	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.4	23.4	30	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.29	24.29	30	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.66	24.66	30	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.53	24.53	30	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.44	23.44	30	PASS



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Band66	5MHz	16QAM	131997	1RB#0	21.28	23.28	30	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.27	23.27	30	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.35	23.35	30	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.65	22.65	30	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.49	23.49	30	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.77	23.77	30	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.12	23.12	30	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.4	22.4	30	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.3	23.3	30	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.9	23.9	30	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.18	23.18	30	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.43	22.43	30	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.93	24.93	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.61	24.61	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.45	24.45	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.56	23.56	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.62	24.62	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.65	24.65	30	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.48	24.48	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.51	23.51	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.49	24.49	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.51	24.51	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.46	24.46	30	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.37	23.37	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.42	23.42	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.82	23.82	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.32	23.32	30	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.64	22.64	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.58	23.58	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.32	23.32	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.17	23.17	30	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.5	22.5	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.2	23.2	30	PASS



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Band66	10MHz	16QAM	132622	1RB#24	21.32	23.32	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.28	23.28	30	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.48	22.48	30	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.54	24.54	30	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.6	24.6	30	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.46	24.46	30	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.57	23.57	30	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.65	24.65	30	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.61	24.61	30	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.51	24.51	30	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.49	23.49	30	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.35	24.35	30	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.25	24.25	30	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.24	24.24	30	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.42	23.42	30	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.31	23.31	30	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.31	23.31	30	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.45	23.45	30	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.55	22.55	30	PASS
Band66	15MHz	16QAM	132322	1RB#0	21	23	30	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.34	23.34	30	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.21	23.21	30	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.58	22.58	30	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.04	23.04	30	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.28	23.28	30	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.39	23.39	30	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.4	22.4	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.48	24.48	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.51	24.51	30	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.52	24.52	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.57	23.57	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.54	24.54	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.63	24.63	30	PASS



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Band66	20MHz	QPSK	132322	1RB#99	22.54	24.54	30	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.53	23.53	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.38	24.38	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.63	24.63	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.63	24.63	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.43	23.43	30	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.58	23.58	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.42	23.42	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.43	23.43	30	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.64	22.64	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.49	23.49	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.21	23.21	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.31	23.31	30	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.64	22.64	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.15	23.15	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.35	23.35	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.41	23.41	30	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.41	22.41	30	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.02	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.16	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.14	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.88	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.02	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.00	13	PASS



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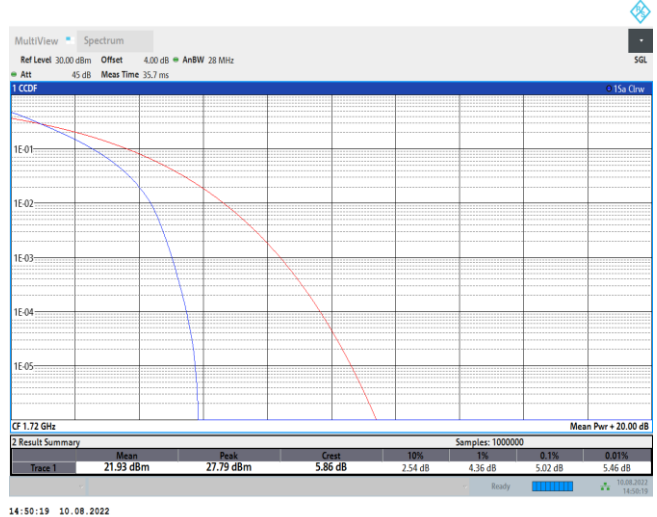
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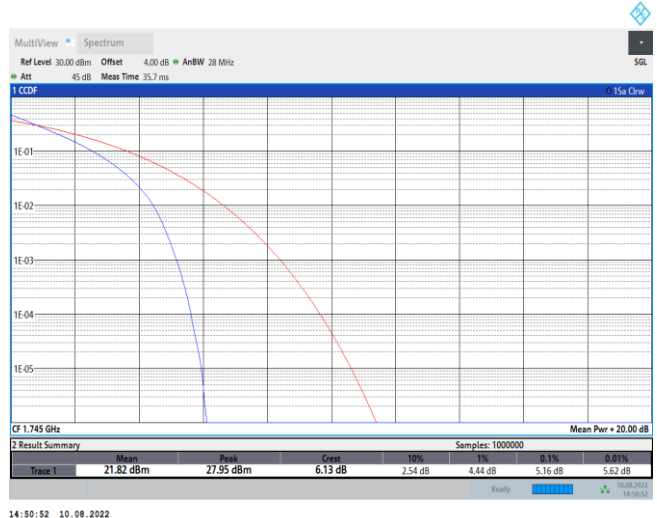
Test Graphs

Band66-20MHz-QPSK-132072-100RB#0



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Band66-20MHz-QPSK-132322-100RB#0



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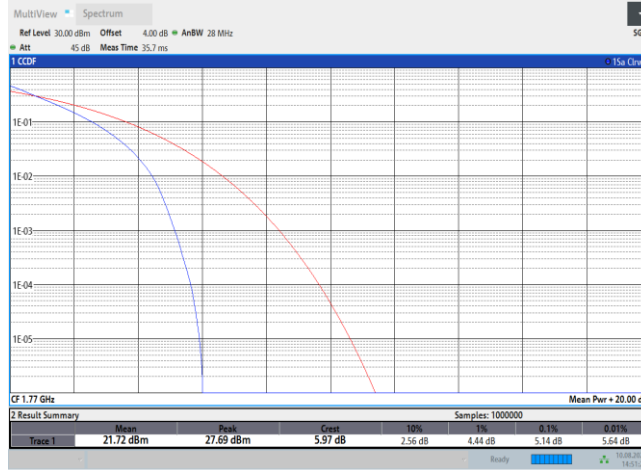
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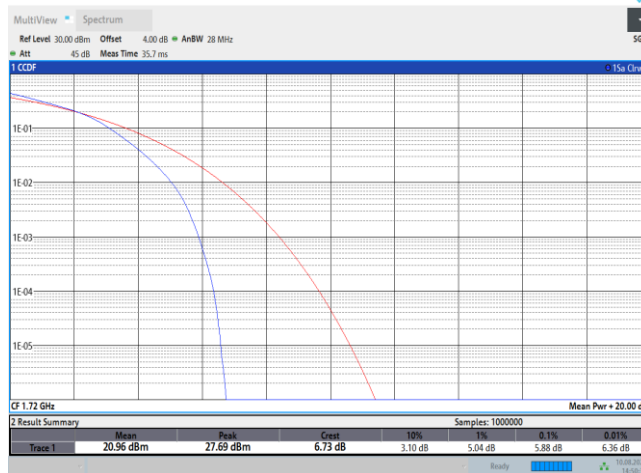


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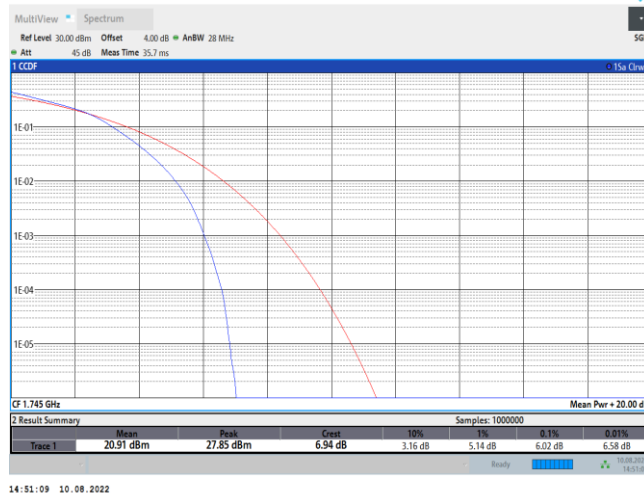


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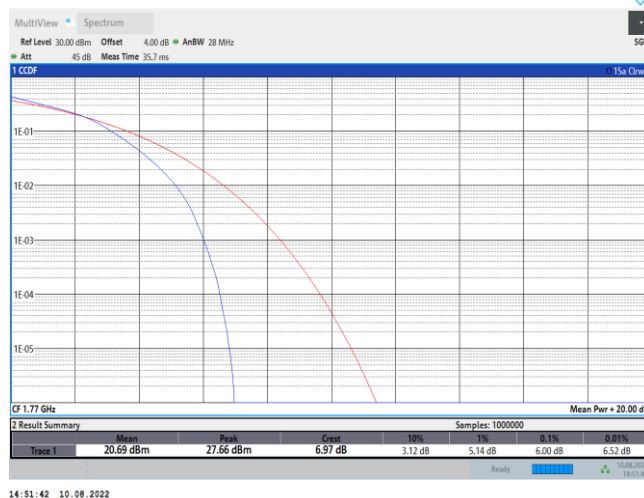


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Band66-20MHz-16QAM-132322-100RB#0



Band66-20MHz-16QAM-132572-100RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS

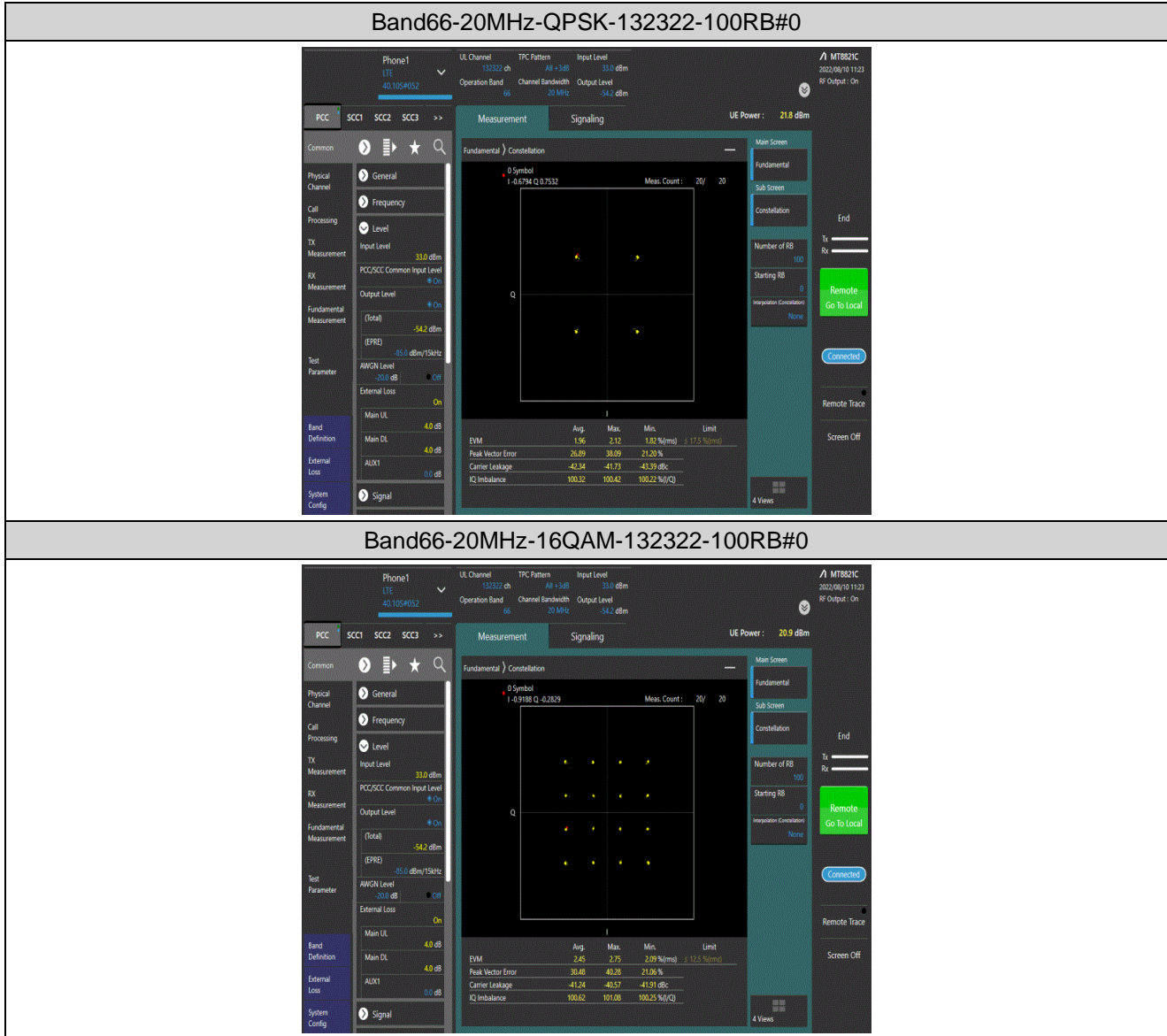


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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.089	1.29	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.09	1.28	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.088	1.27	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.096	1.31	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.097	1.30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.098	1.31	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.693	2.96	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.697	2.96	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.693	2.96	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.686	2.97	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.69	2.98	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.689	2.96	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.466	4.88	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.466	4.88	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.465	4.88	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.464	4.93	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.464	4.95	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.466	4.96	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.931	9.68	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.912	9.64	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.929	9.66	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.905	9.68	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.905	9.62	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.911	9.64	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.41	14.64	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.434	14.67	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.441	14.70	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.394	14.67	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.418	14.79	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.428	14.76	PASS



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Band66	20MHz	QPSK	132072	100RB#0	17.85	19.28	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.867	19.48	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.876	19.40	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.803	19.40	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.864	19.32	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.865	19.36	PASS



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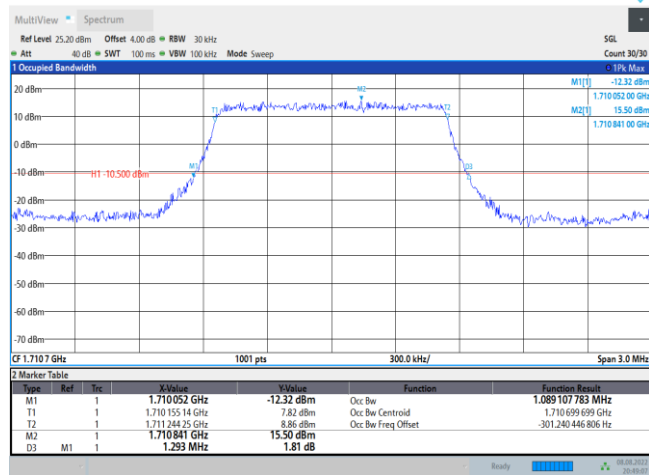
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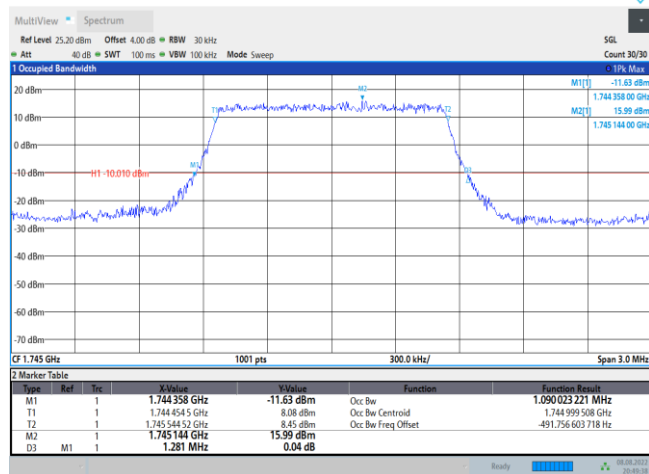
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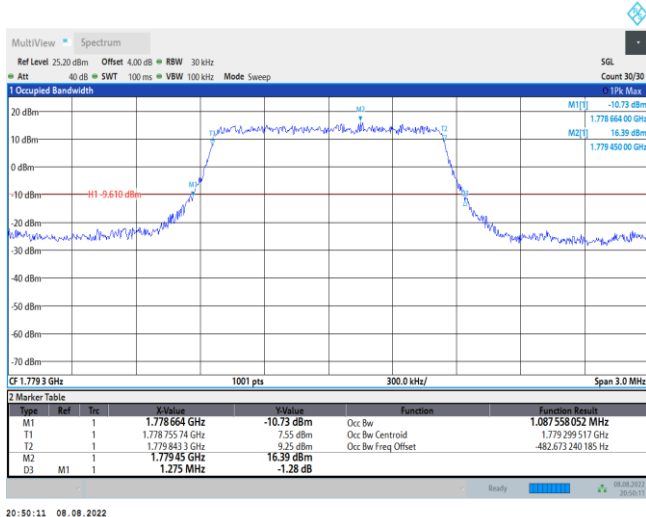
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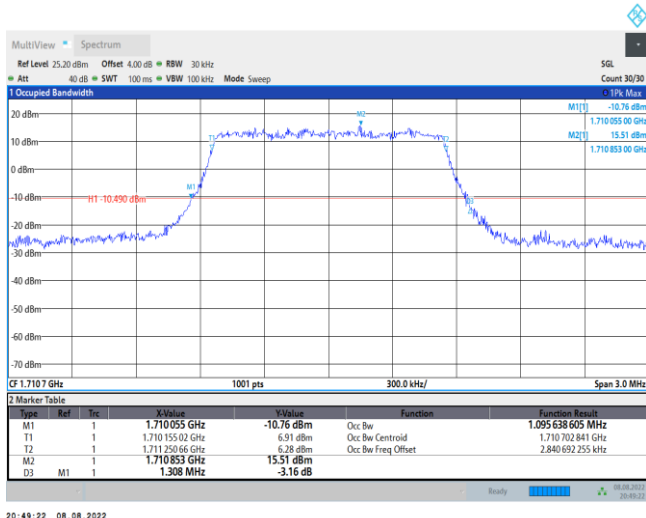


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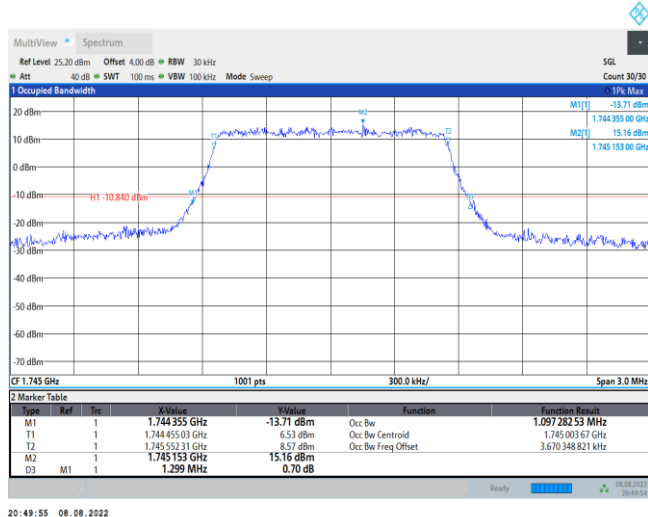


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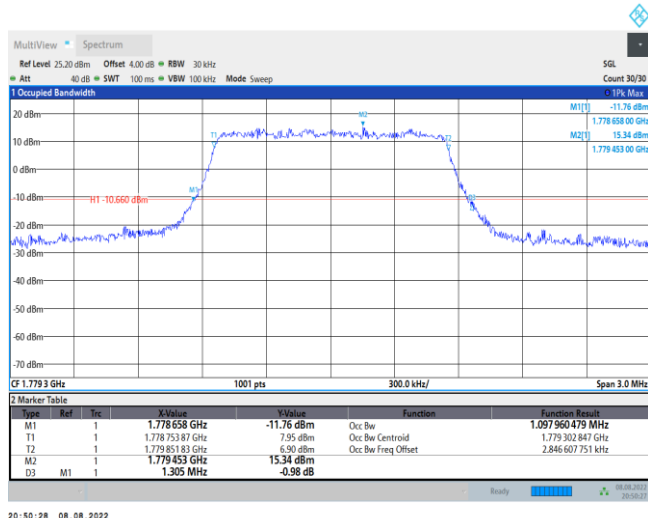


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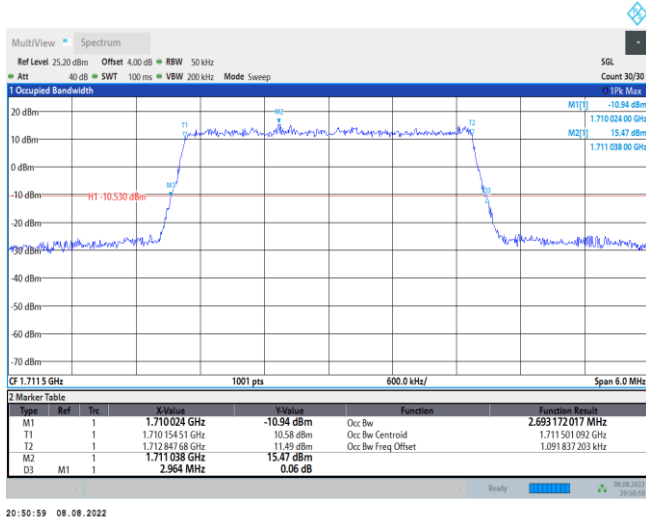


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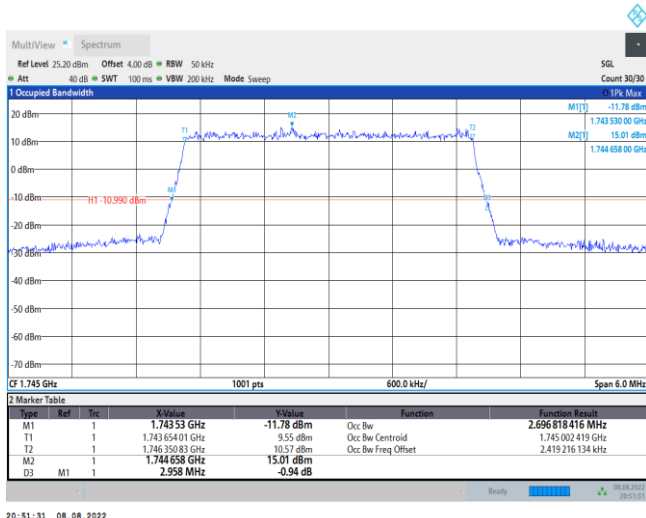
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Band66-3MHz-QPSK-131987-15RB#0



Band66-3MHz-QPSK-132322-15RB#0



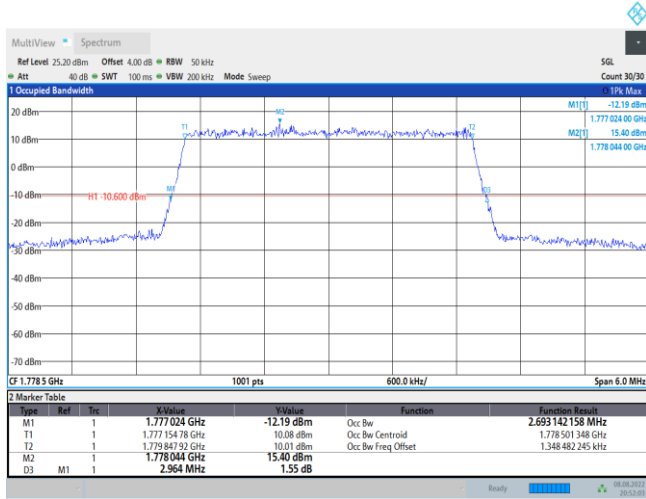
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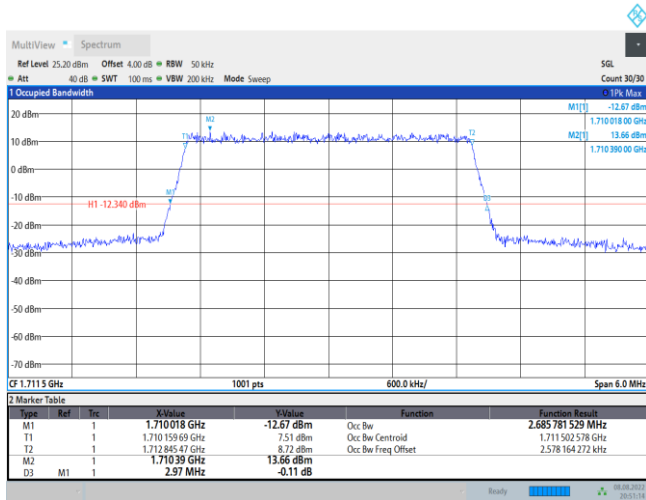


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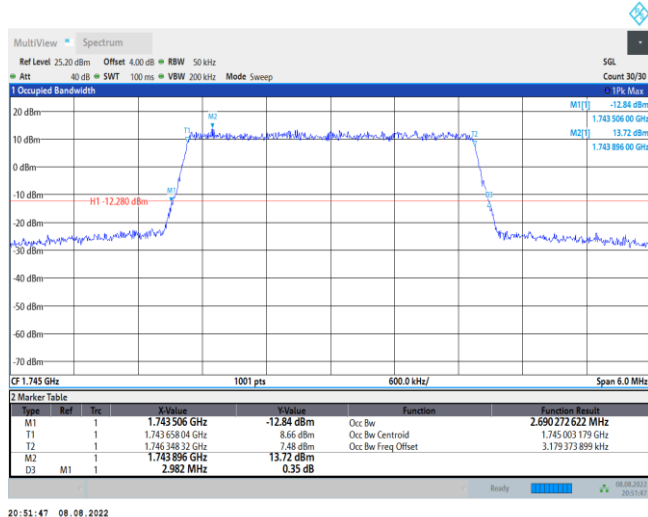


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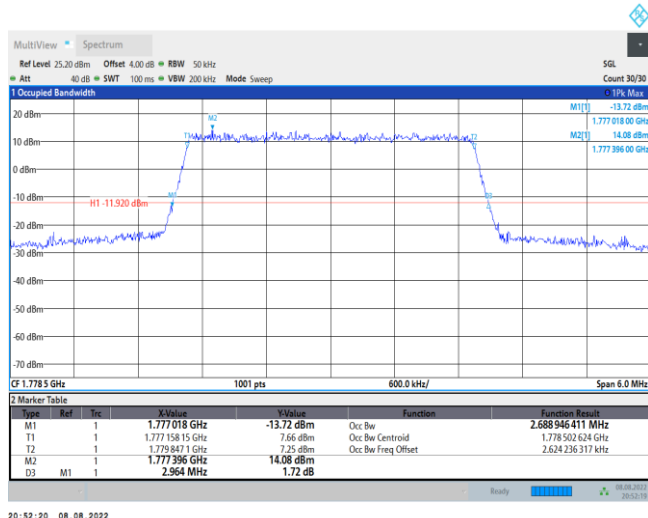
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Band66-3MHz-16QAM-132322-15RB#0



20:51:47 08.08.2022

Band66-3MHz-16QAM-132657-15RB#0

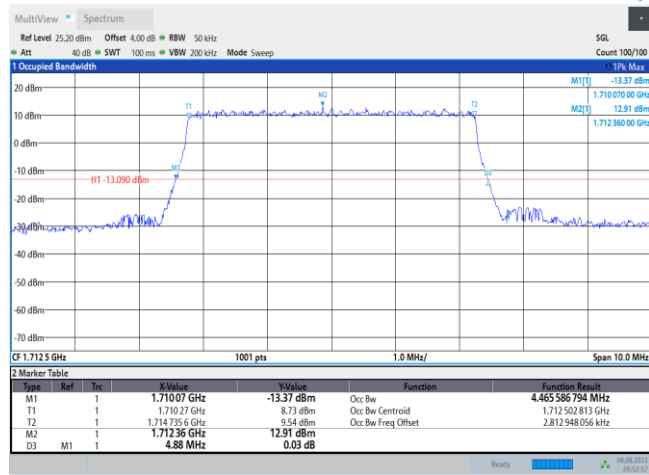


20:52:20 08.08.2022



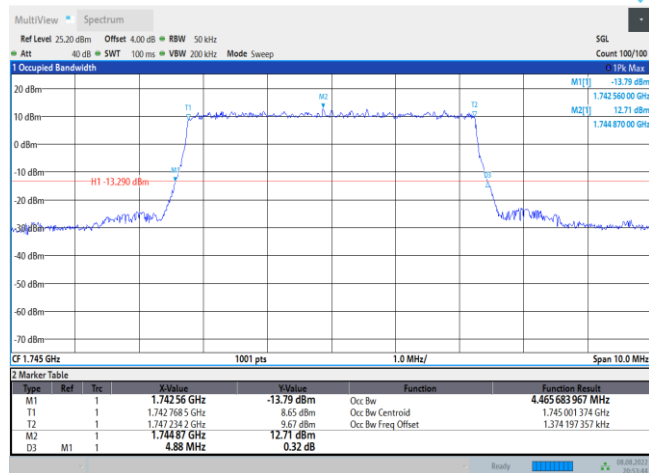
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Band66-5MHz-QPSK-131997-25RB#0



20:52:58 08.08.2022

Band66-5MHz-QPSK-132322-25RB#0



20:53:44 08.08.2022



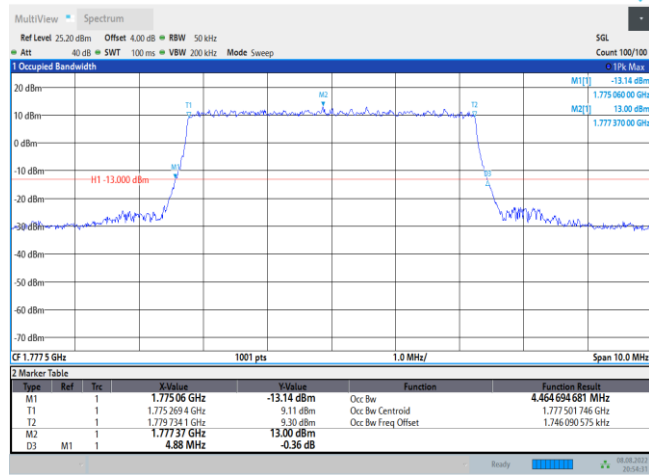
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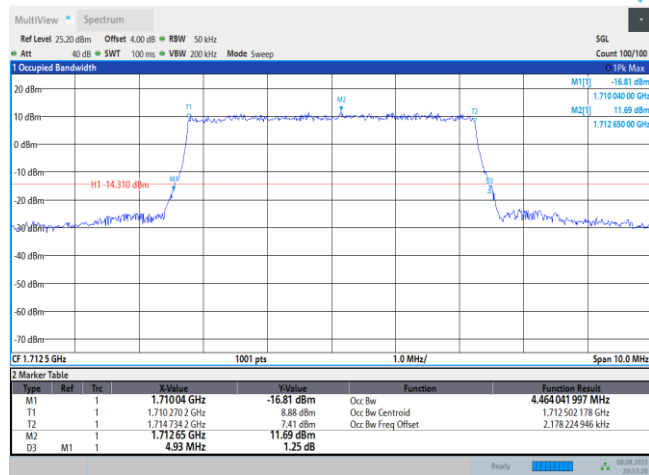
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Band66-5MHz-QPSK-132647-25RB#0



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Band66-5MHz-16QAM-131997-25RB#0



20:53:21 08.08.2022

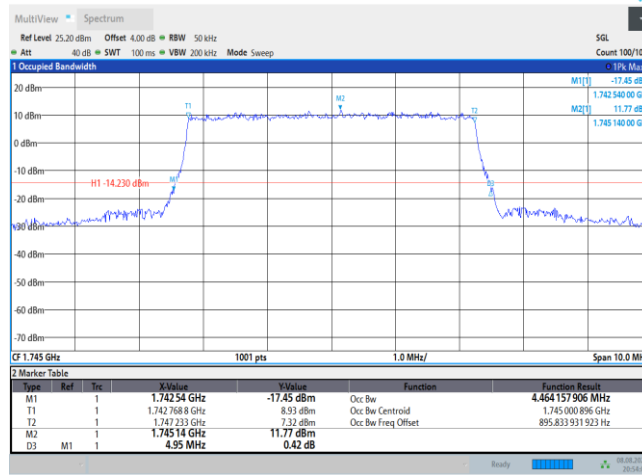


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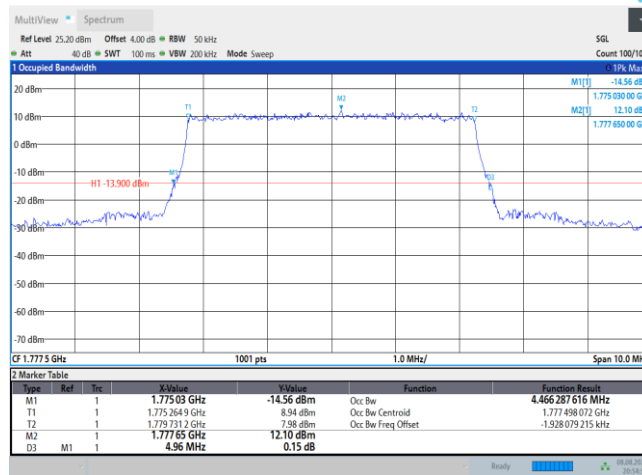
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Band66-5MHz-16QAM-132322-25RB#0



20:54:07 08.08.2022

Band66-5MHz-16QAM-132647-25RB#0



20:54:54 08.08.2022



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

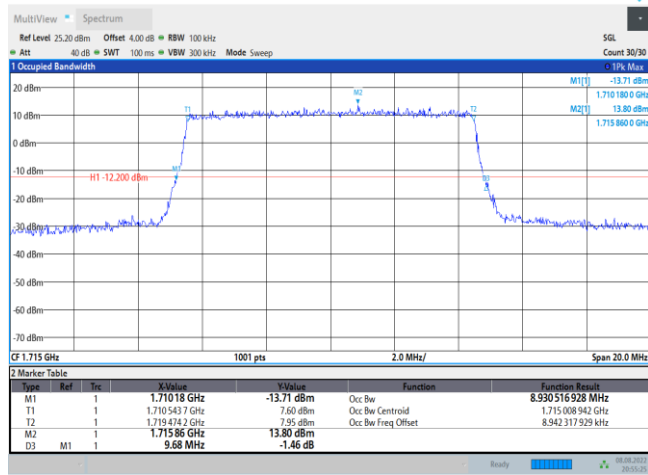
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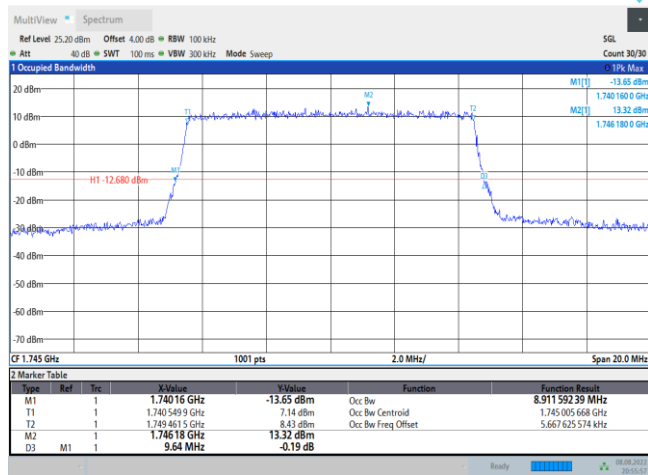


Band66-10MHz-QPSK-132022-50RB#0



20:55:25 08.08.2022

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20:55:58 08.08.2022

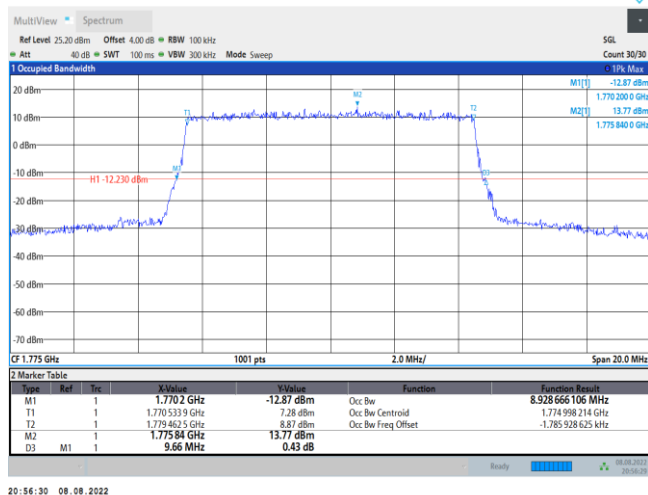


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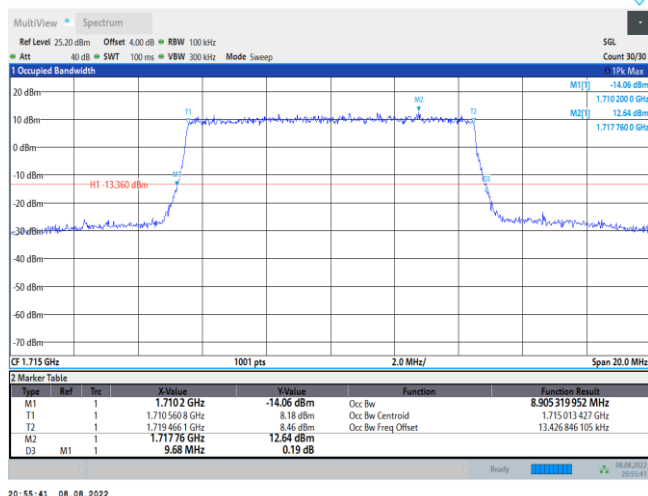
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Band66-10MHz-QPSK-132622-50RB#0



Band66-10MHz-16QAM-132022-50RB#0

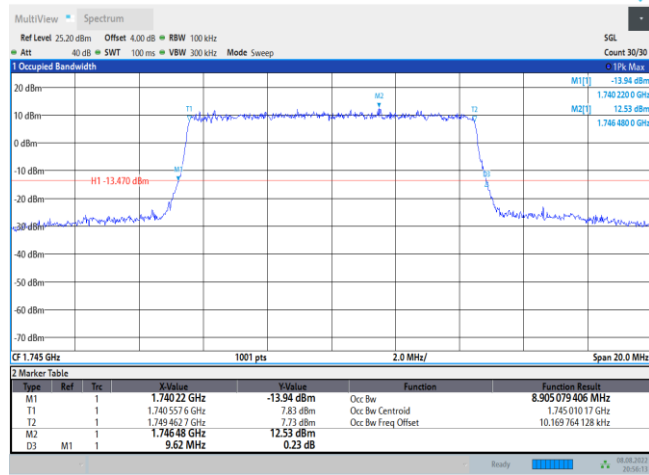


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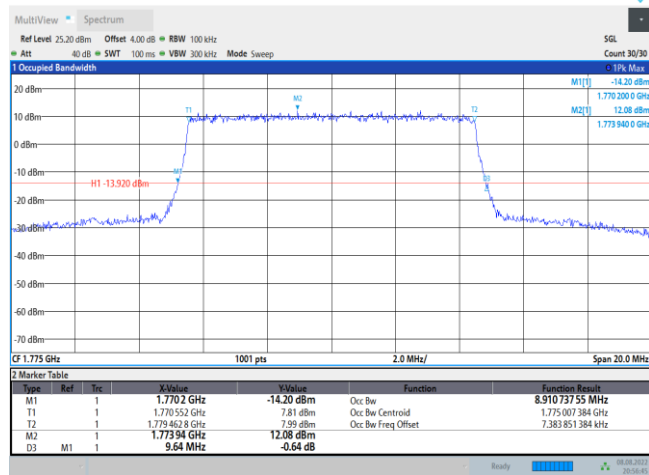
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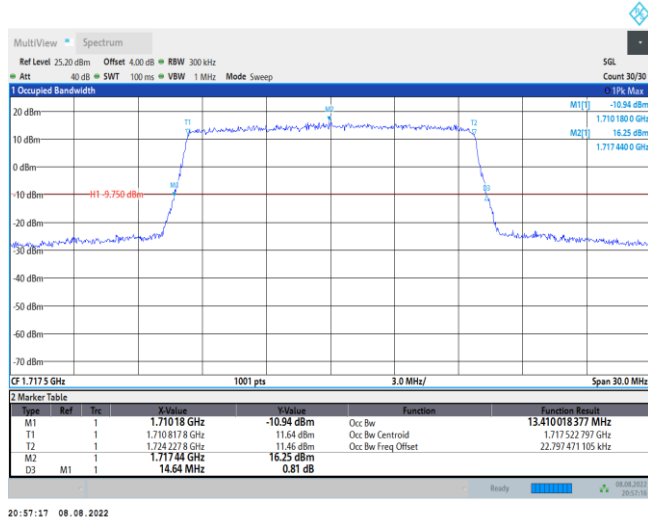


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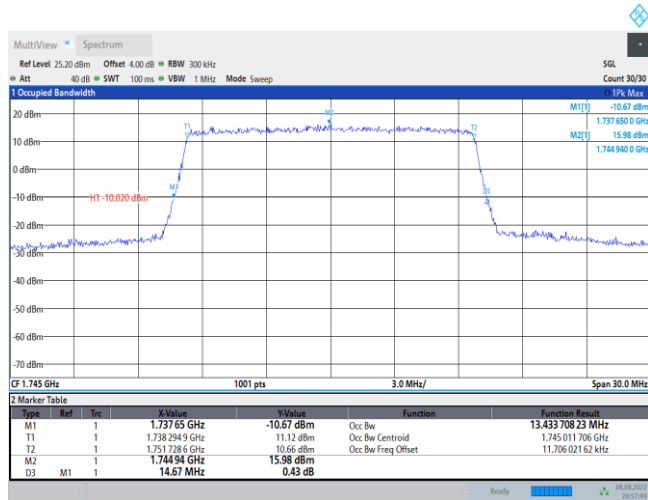
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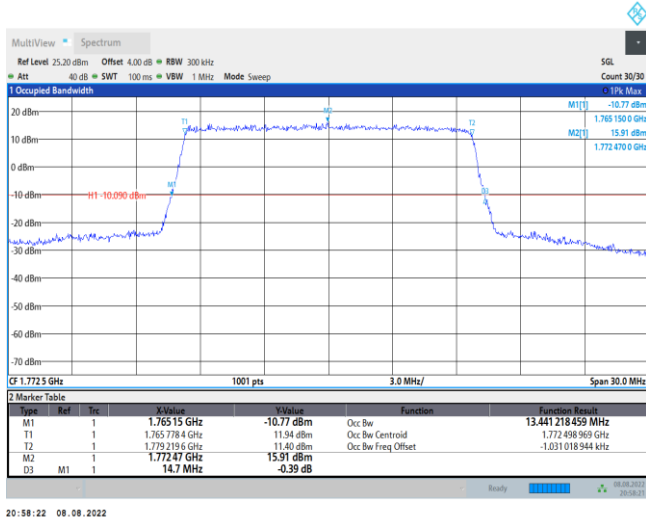


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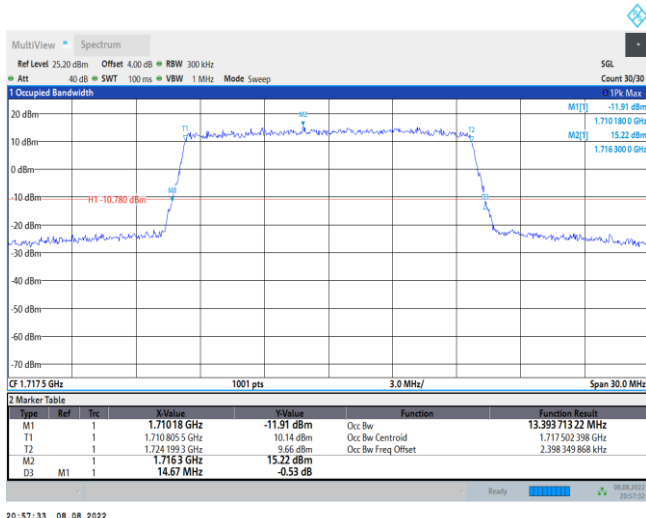


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Band66-15MHz-QPSK-132597-75RB#0



Band66-15MHz-16QAM-132047-75RB#0



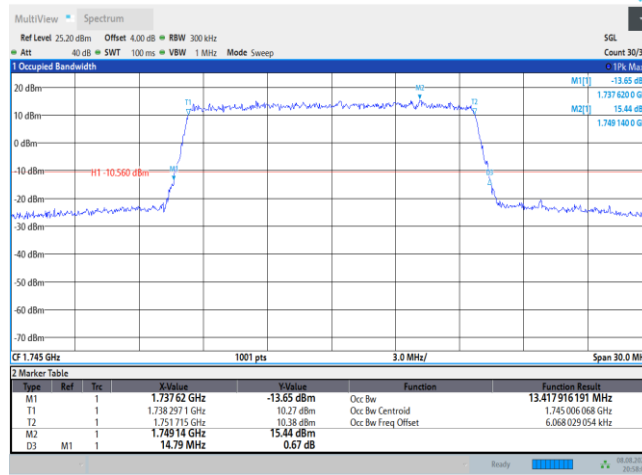
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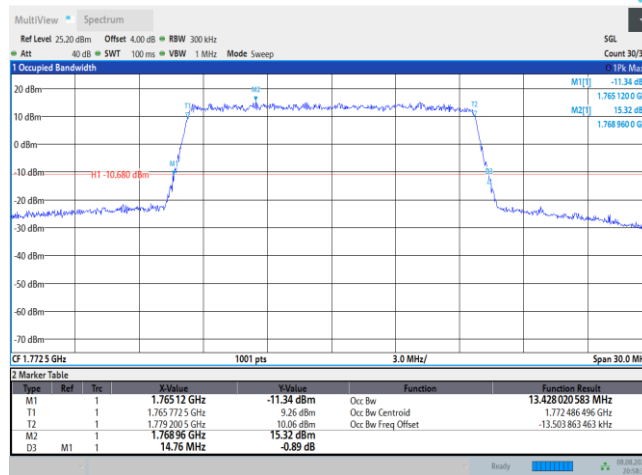


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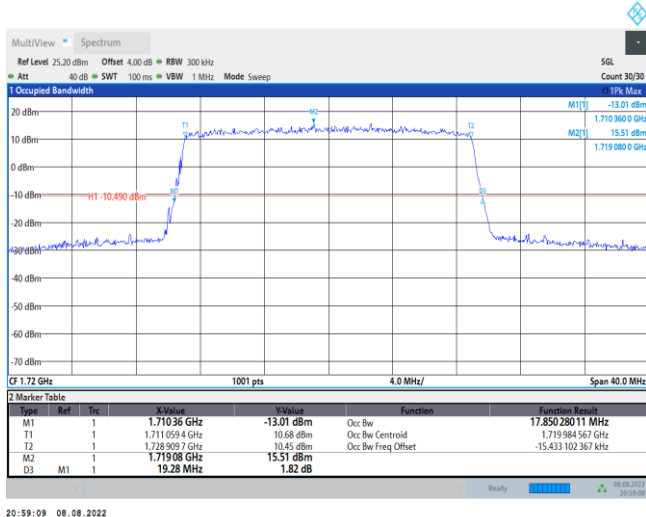


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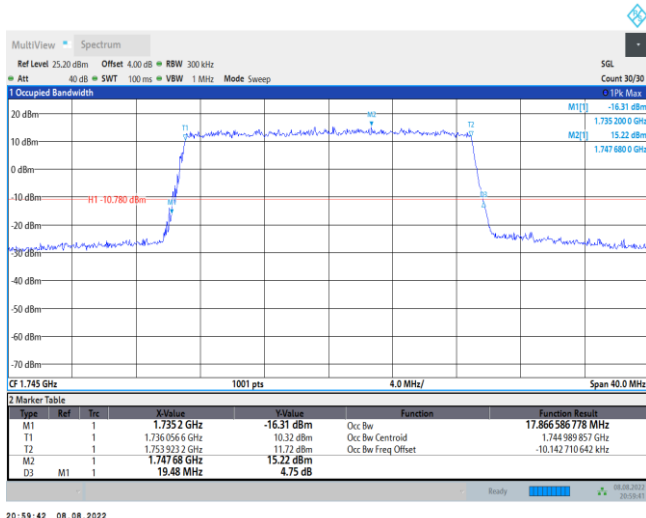
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Band66-20MHz-QPSK-132072-100RB#0



Band66-20MHz-QPSK-132322-100RB#0

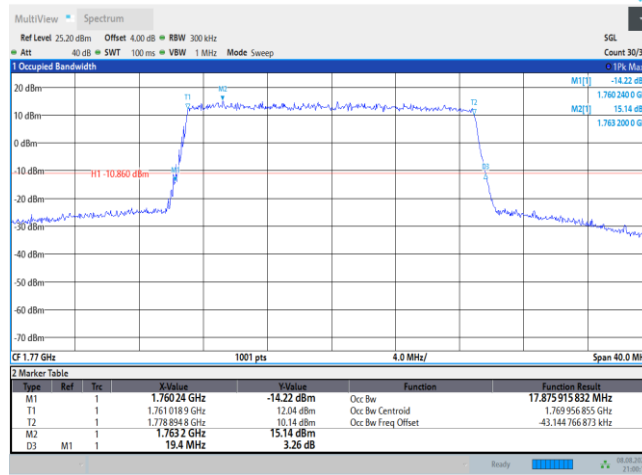


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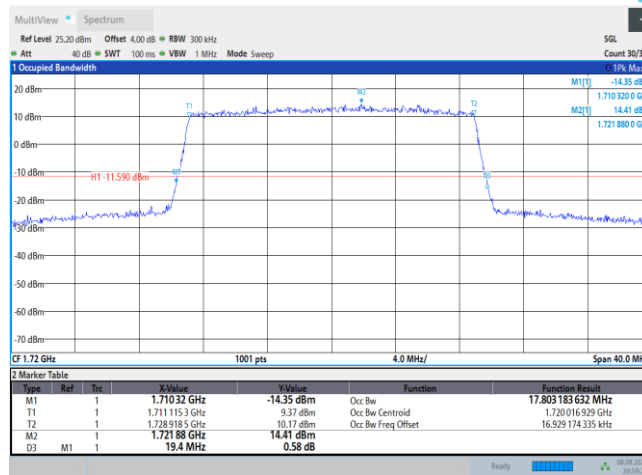
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Band66-20MHz-QPSK-132572-100RB#0



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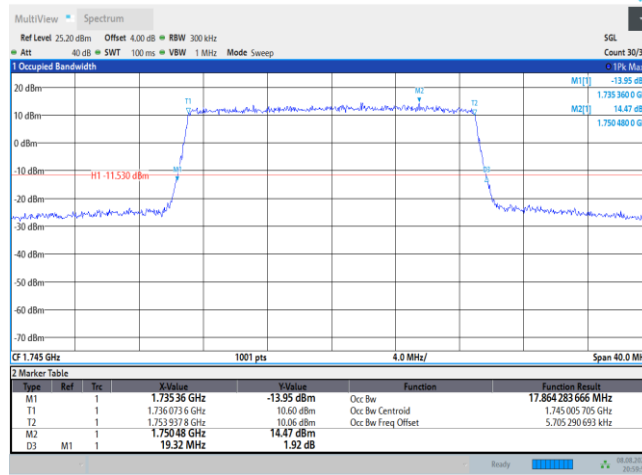
Band66-20MHz-16QAM-132072-100RB#0



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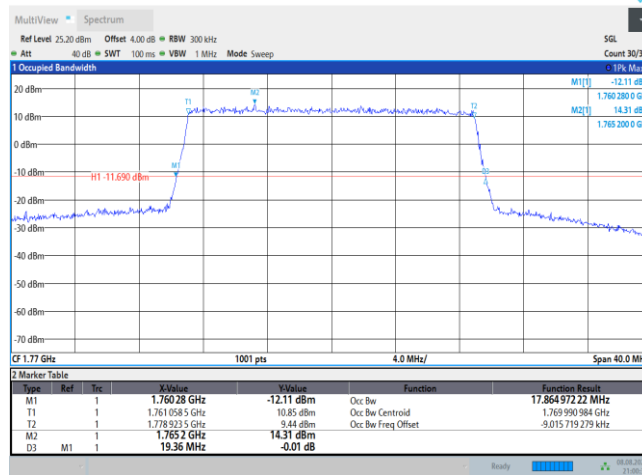


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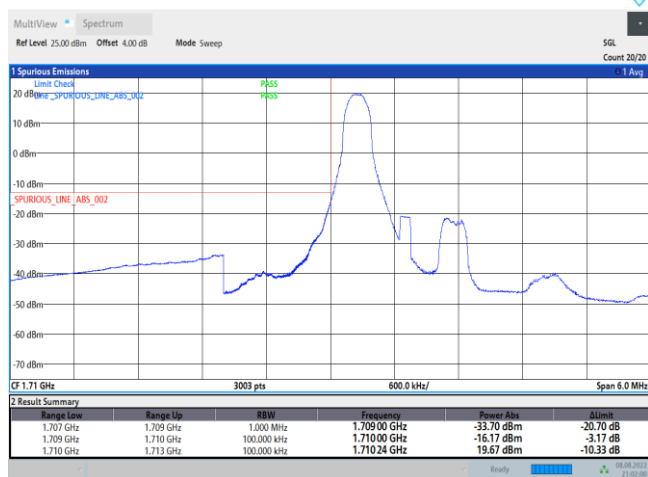
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## Band Edge

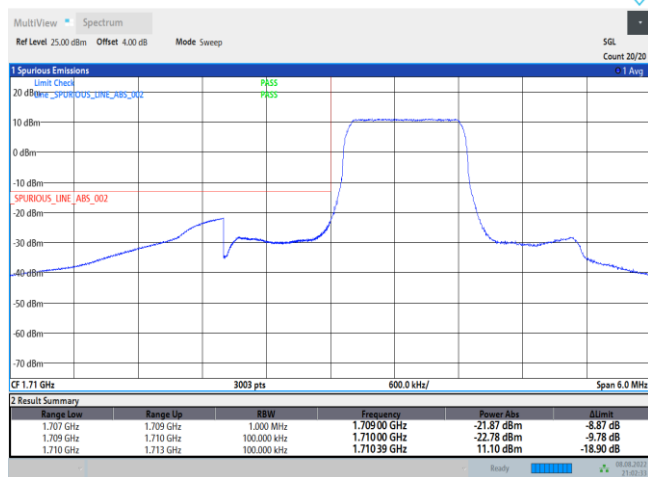
## Test Graphs

Band66-1.4MHz-QPSK-131979-1RB#0



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Band66-1.4MHz-QPSK-131979-6RB#0



21:02:33 08.08.2022



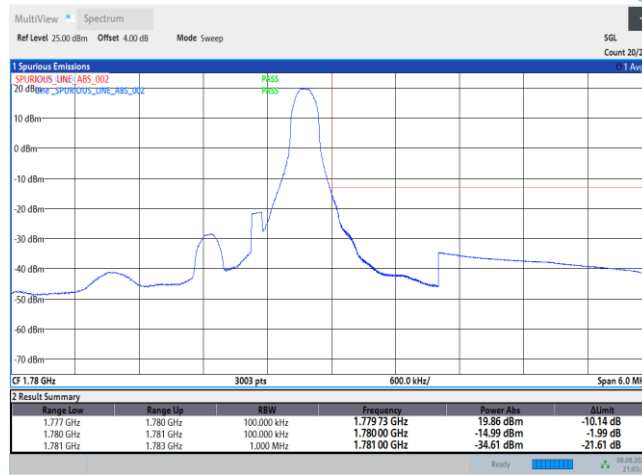
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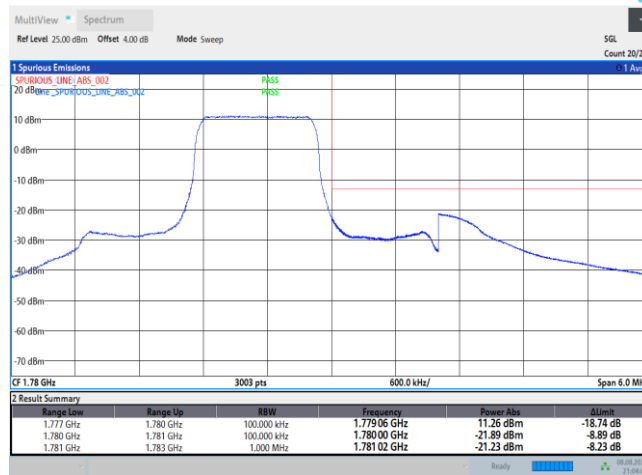
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Band66-1.4MHz-QPSK-132665-1RB#5



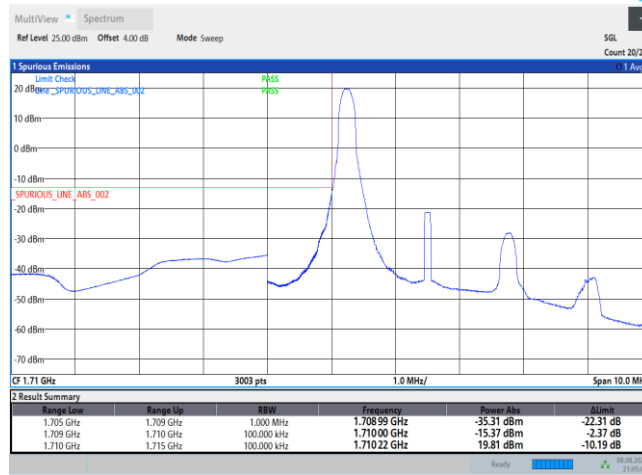
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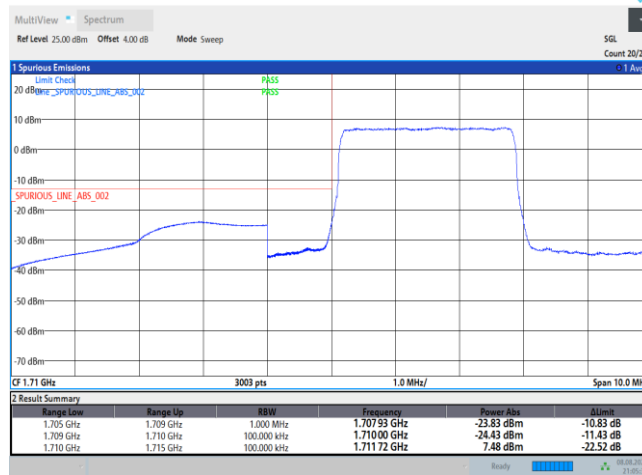
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Band66-3MHz-QPSK-131987-1RB#0



21:05:06 08.08.2022

Band66-3MHz-QPSK-131987-15RB#0



21:05:37 08.08.2022



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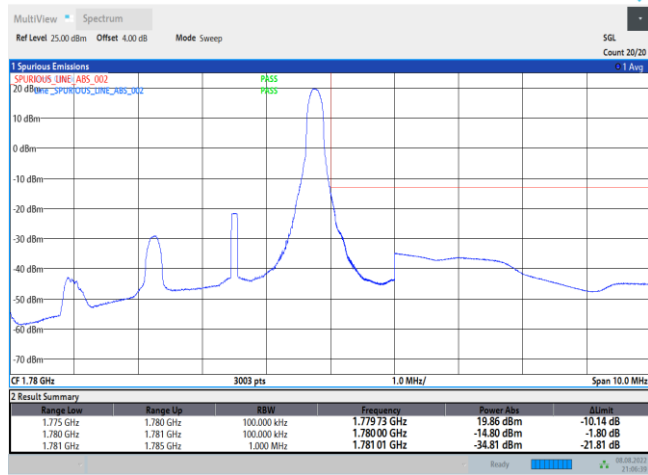
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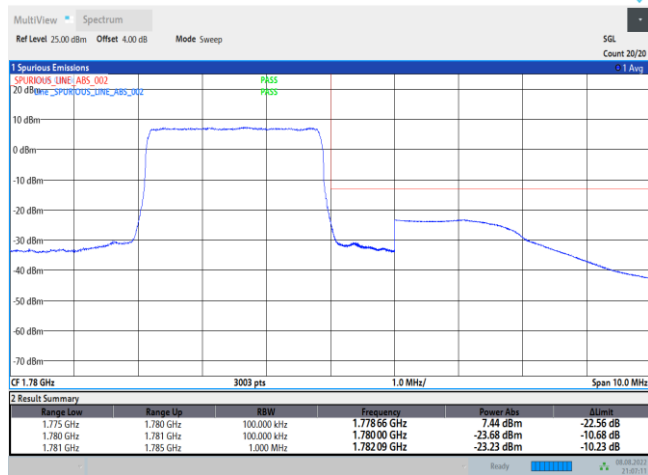
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Band66-3MHz-QPSK-132657-1RB#14



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Band66-3MHz-QPSK-132657-15RB#0

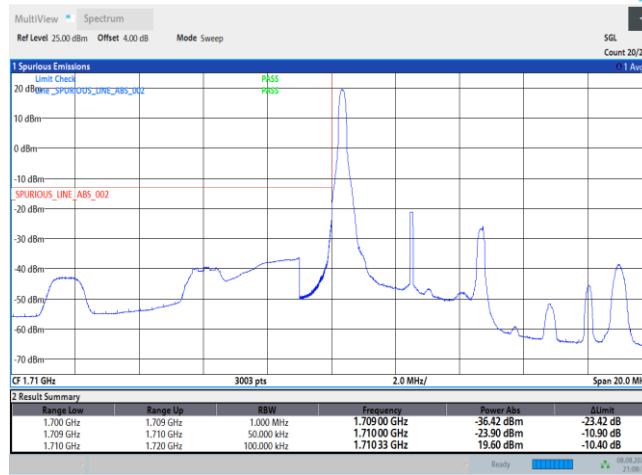


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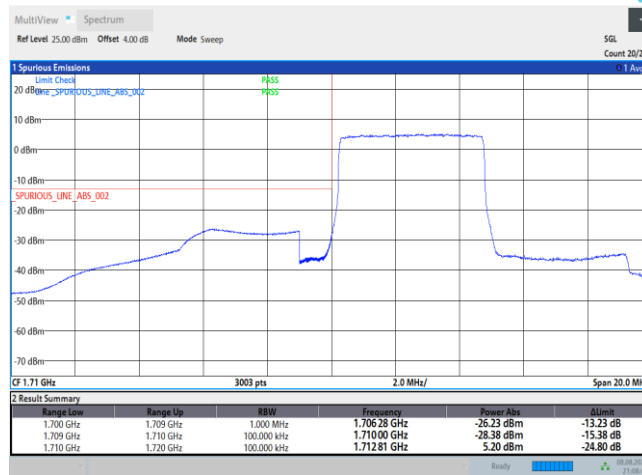
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Band66-5MHz-QPSK-131997-1RB#0



21:08:14 08.08.2022

Band66-5MHz-QPSK-131997-25RB#0

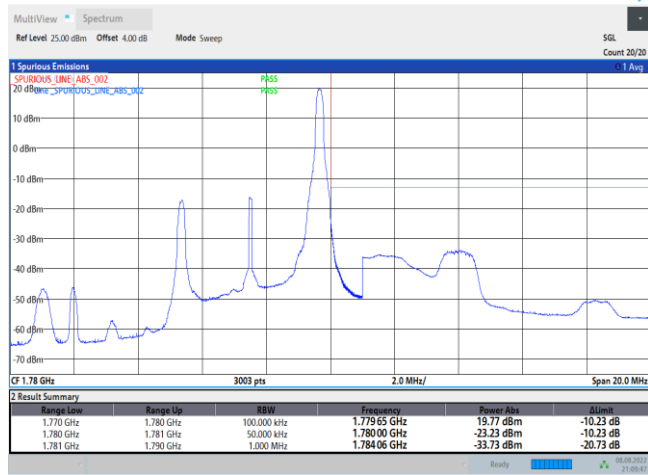


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Band66-5MHz-QPSK-132647-1RB#24



Band66-5MHz-QPSK-132647-25RB#0

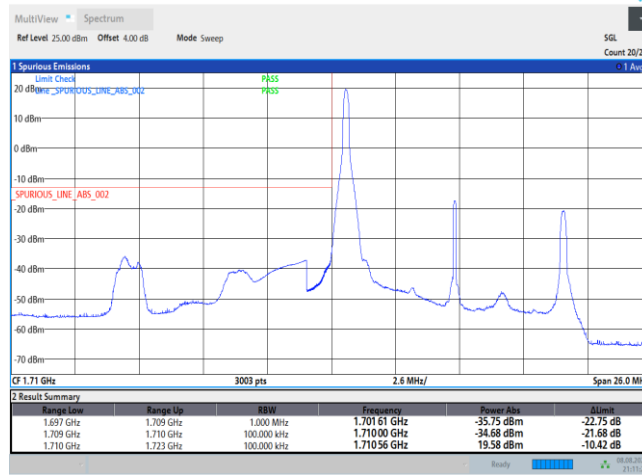


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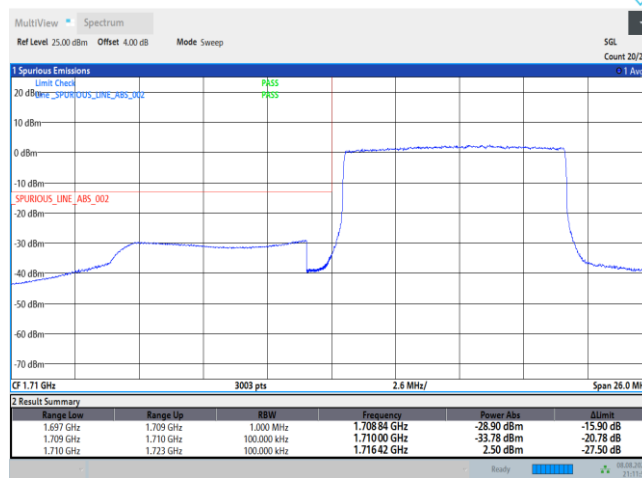


Band66-10MHz-QPSK-132022-1RB#0



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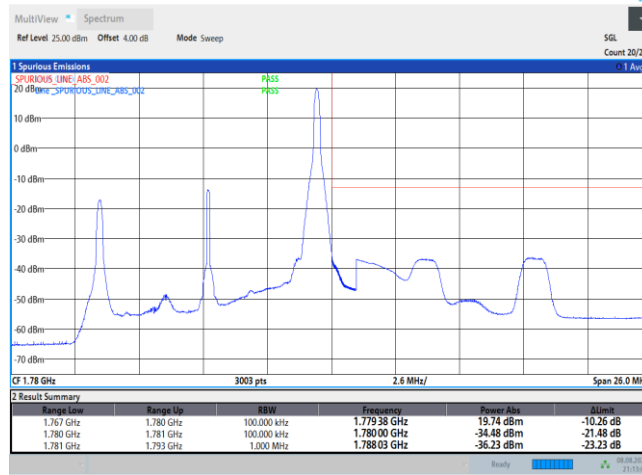
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Band66-10MHz-QPSK-132622-1RB#49



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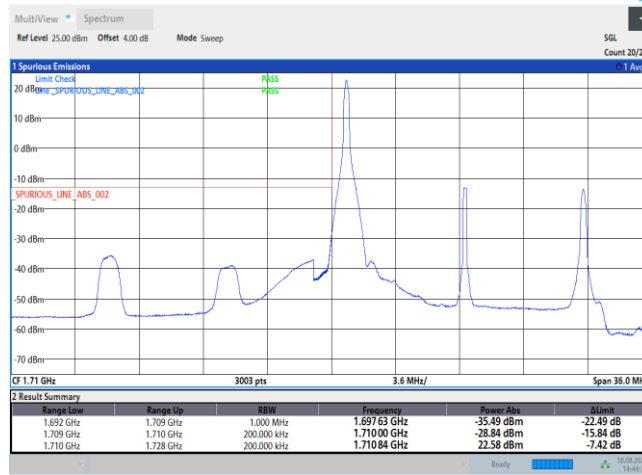


21:13:39 08.08.2022



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Band66-15MHz-QPSK-132047-1RB#0



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Band66-15MHz-QPSK-132047-75RB#0



14:45:06 10.08.2022



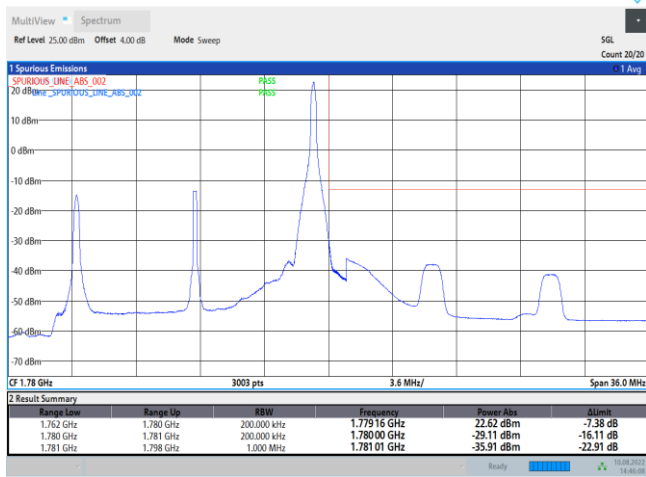
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Band66-15MHz-QPSK-132597-1RB#74



14:46:08 10.08.2022

Band66-15MHz-QPSK-132597-75RB#0

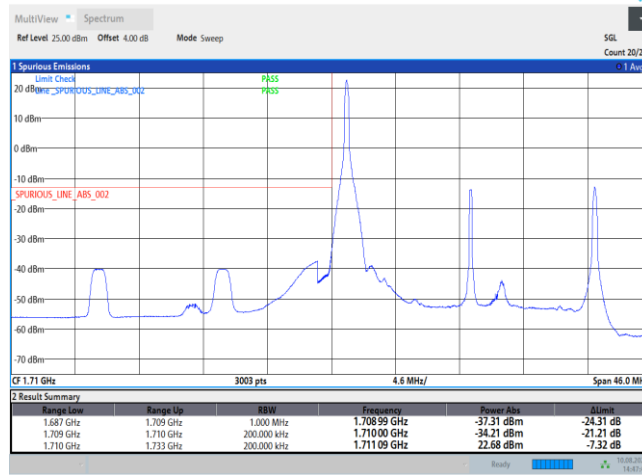


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Band66-20MHz-QPSK-132072-1RB#0



14:47:42 10.08.2022

Band66-20MHz-QPSK-132072-100RB#0



14:48:15 10.08.2022



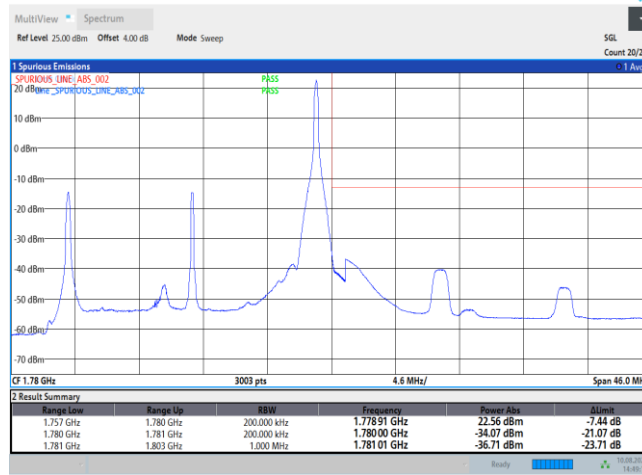
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Band66-20MHz-QPSK-132572-1RB#99



14:49:15 10.08.2022

Band66-20MHz-QPSK-132572-100RB#0



14:49:48 10.08.2022



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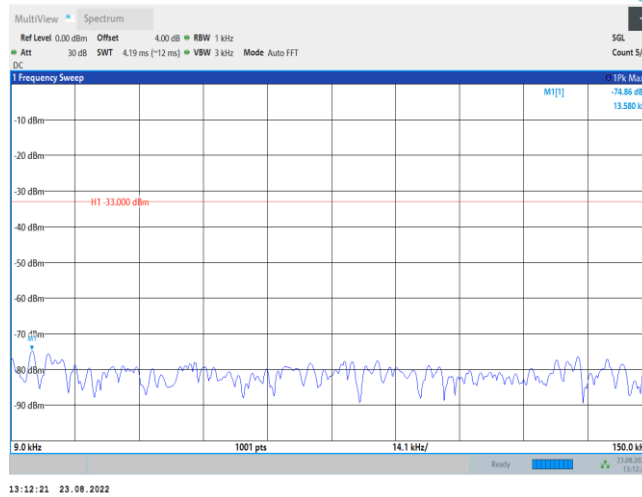
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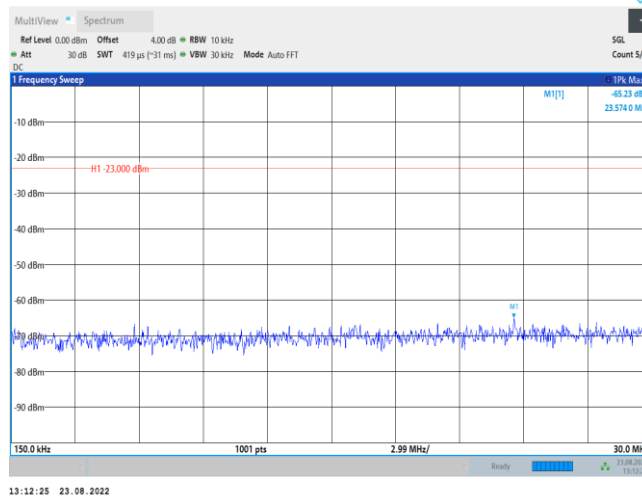
## Conducted Spurious Emission

### Test Graphs

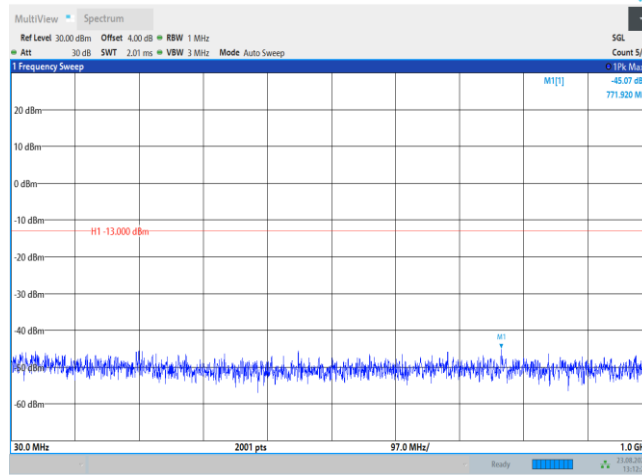
Band66-20MHz-QPSK-132072-1RB#0-Range1:0.009~0.15MHz



Band66-20MHz-QPSK-132072-1RB#0-Range2:0.15~30MHz

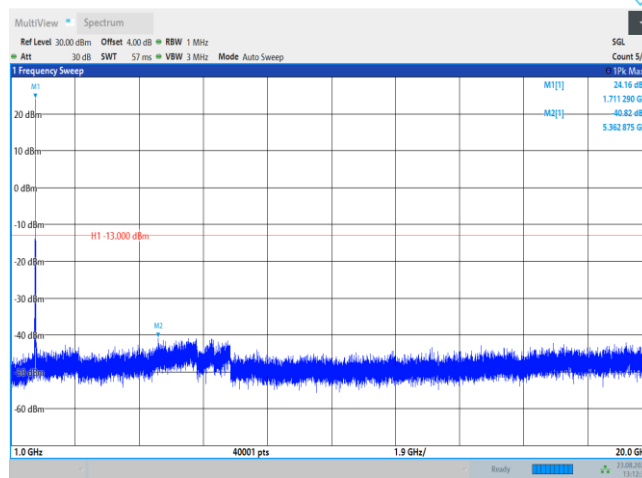


Band66-20MHz-QPSK-132072-1RB#0-Range3:30~1000MHz



13:12:29 23.08.2022

Band66-20MHz-QPSK-132072-1RB#0-Range4:1000~20000MHz



13:12:33 23.08.2022



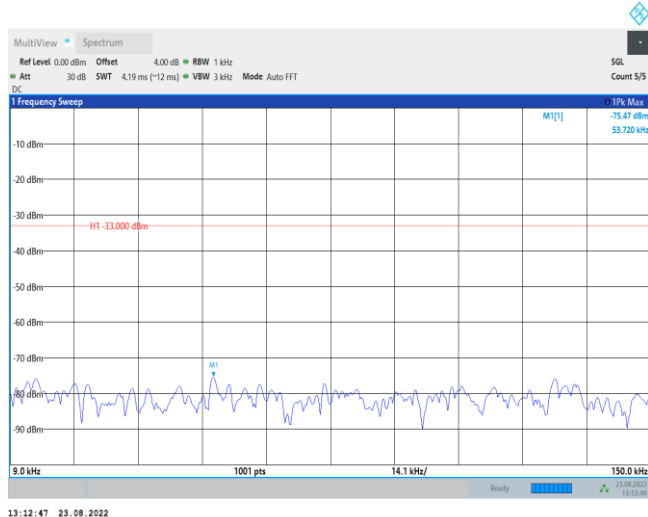
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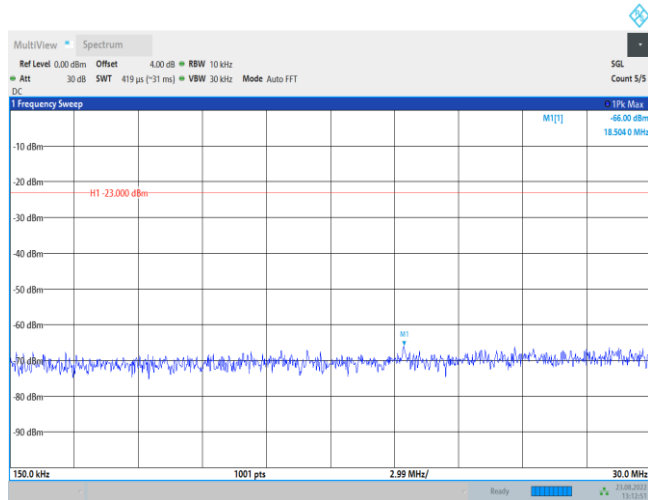
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Band66-20MHz-QPSK-132322-1RB#0-Range1:0.009~0.15MHz



13:12:47 23.08.2022

Band66-20MHz-QPSK-132322-1RB#0-Range2:0.15~30MHz

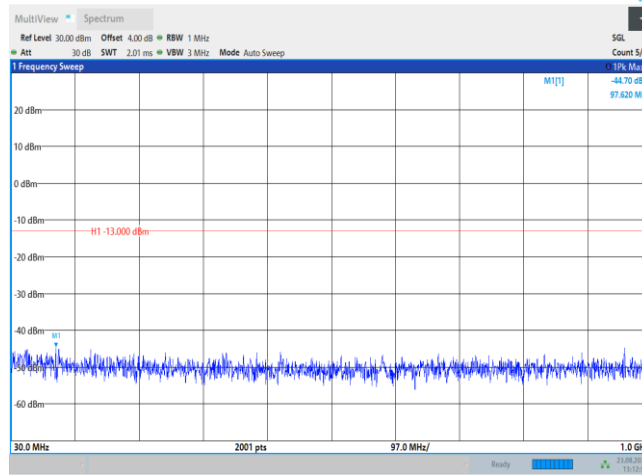


13:12:51 23.08.2022



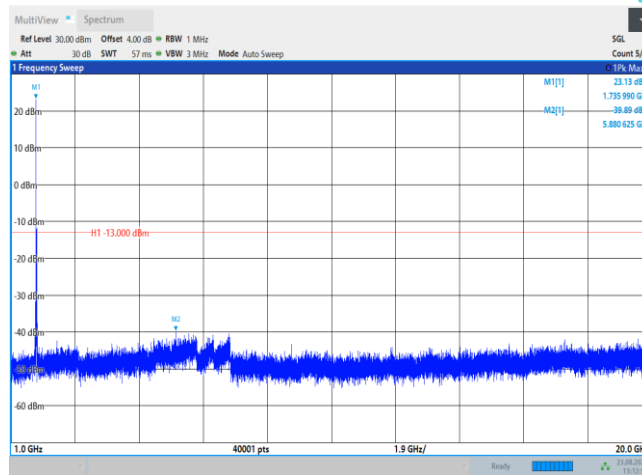
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Band66-20MHz-QPSK-132322-1RB#0-Range3:30~1000MHz



13:12:55 23.08.2022

Band66-20MHz-QPSK-132322-1RB#0-Range4:1000~20000MHz



13:12:59 23.08.2022



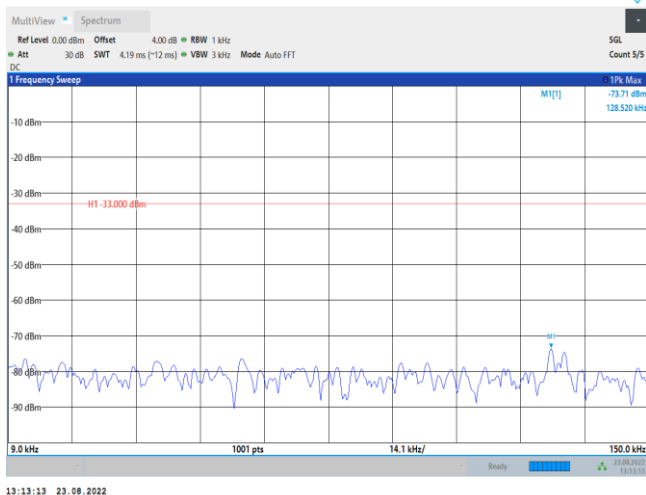
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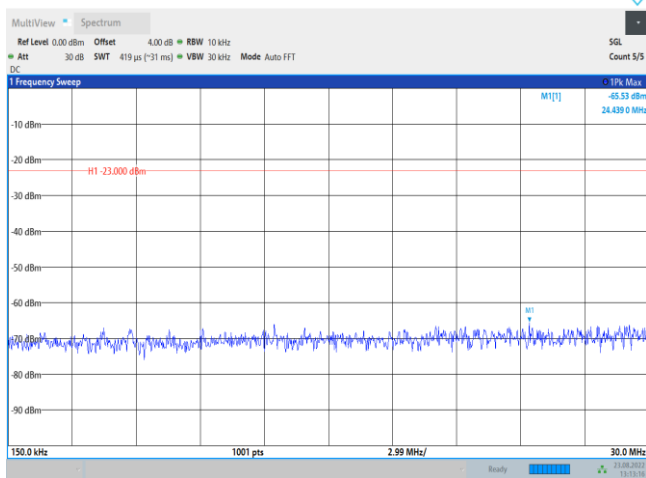


Band66-20MHz-QPSK-132572-1RB#0-Range1:0.009~0.15MHz



13:13:13 23.08.2022

Band66-20MHz-QPSK-132572-1RB#0-Range2:0.15~30MHz

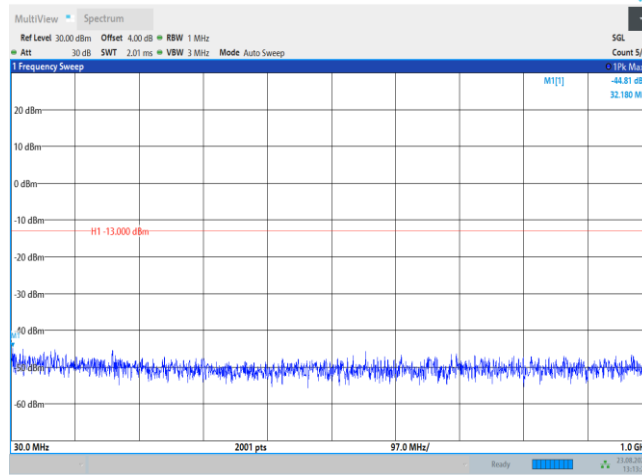


13:13:17 23.08.2022



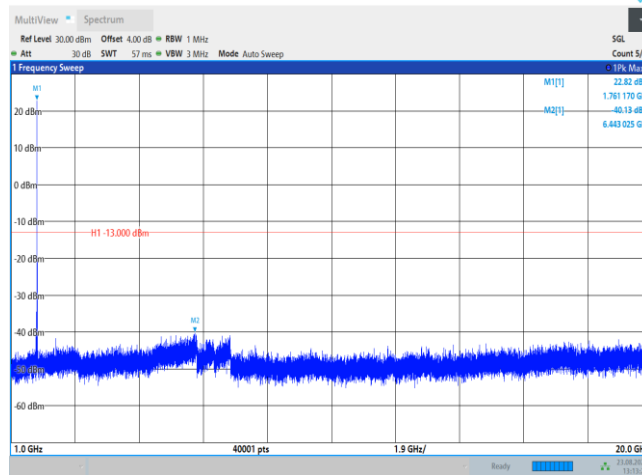
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Band66-20MHz-QPSK-132572-1RB#0-Range3:30~1000MHz



13:13:20 23.08.2022

Band66-20MHz-QPSK-132572-1RB#0-Range4:1000~20000MHz



13:13:25 23.08.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band66\_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.25	59.77	-46.28	29.45	-52.32	-13.00	39.32	125	216	Horizontal
2	5106.2700	47.66	-45.36	32.94	-60.03	-13.00	47.03	148	331	Horizontal
3	6808.3600	47.11	-44.16	35.85	-56.46	-13.00	43.46	175	181	Horizontal
4	8510.4500	45.65	-41.59	37.56	-53.64	-13.00	40.64	199	1	Horizontal
5	10212.5400	38.51	-39.45	38.81	-57.38	-13.00	44.38	164	225	Horizontal
6	11914.6300	33.12	-37.18	38.88	-60.44	-13.00	47.44	128	133	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.25	66.27	-46.28	29.45	-45.82	-13.00	32.82	256	256	Vertical
2	5106.2700	48.30	-45.36	32.94	-59.39	-13.00	46.39	145	182	Vertical
3	6808.3600	47.58	-44.16	35.85	-55.99	-13.00	42.99	175	0	Vertical
4	8510.4500	43.15	-41.59	37.56	-56.14	-13.00	43.14	166	346	Vertical
5	10212.5400	39.02	-39.45	38.81	-56.87	-13.00	43.87	191	357	Vertical
6	11914.6300	33.54	-37.18	38.88	-60.02	-13.00	47.02	214	44	Vertical



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Test Band = LTE Band66\_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	59.28	-46.27	29.50	-52.75	-13.00	39.75	216	346	Horizontal
2	5181.2700	47.15	-45.30	32.98	-60.43	-13.00	47.43	175	47	Horizontal
3	6908.3600	46.36	-44.05	35.97	-56.98	-13.00	43.98	188	227	Horizontal
4	8635.4500	42.80	-41.46	37.81	-56.11	-13.00	43.11	193	181	Horizontal
5	10362.5400	36.94	-39.04	38.85	-58.51	-13.00	45.51	214	61	Horizontal
6	12089.6300	34.23	-37.37	39.04	-59.36	-13.00	46.36	230	227	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	68.43	-46.27	29.50	-43.60	-13.00	30.60	216	257	Vertical
2	5181.2700	47.30	-45.30	32.98	-60.28	-13.00	47.28	236	317	Vertical
3	6908.3600	48.10	-44.05	35.97	-55.24	-13.00	42.24	291	243	Vertical
4	8635.4500	42.53	-41.46	37.81	-56.38	-13.00	43.38	144	286	Vertical
5	10362.5400	37.20	-39.04	38.85	-58.25	-13.00	45.25	172	136	Vertical
6	12089.6300	33.72	-37.37	39.04	-59.87	-13.00	46.87	102	122	Vertical



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Test Band = LTE Band66\_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3522	64.54	-46.23	29.54	-47.41	-13.00	34.41	285	331	Horizontal
2	5256.2700	47.03	-45.17	32.94	-60.47	-13.00	47.47	146	166	Horizontal
3	7008.3600	46.88	-43.61	36.10	-55.89	-13.00	42.89	192	151	Horizontal
4	8760.4500	41.63	-41.42	38.02	-57.04	-13.00	44.04	172	210	Horizontal
5	10512.5400	37.11	-38.76	38.97	-57.94	-13.00	44.94	236	3	Horizontal
6	12262.6300	33.59	-37.44	39.11	-60.00	-13.00	47.00	211	256	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3522	70.27	-46.23	29.54	-41.68	-13.00	28.68	216	257	Vertical
2	5256.2700	47.98	-45.17	32.94	-59.52	-13.00	46.52	188	19	Vertical
3	7008.3600	46.63	-43.61	36.10	-56.14	-13.00	43.14	194	331	Vertical
4	8760.4500	41.83	-41.42	38.02	-56.84	-13.00	43.84	173	0	Vertical
5	10512.5400	37.92	-38.76	38.97	-57.13	-13.00	44.13	228	62	Vertical
6	12262.6300	33.66	-37.44	39.11	-59.93	-13.00	46.93	169	8	Vertical

Remark:

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

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-2.00	-0.001146	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-2.30	-0.001318	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-3.30	-0.001891	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.40	-0.000802	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-2.60	-0.001490	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-1.70	-0.000974	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-1.90	-0.001089	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-1.30	-0.000745	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-1.80	-0.001032	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.80	-0.001605	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-2.90	-0.001662	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-2.60	-0.001490	PASS

$|\text{MAX}(\Delta f)| = 3.3\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	1710.568954	$\geq 1710\text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	1779.454182	$\leq 1780\text{ MHz}$	

---End of Attachment---



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