



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.7

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.22	22.67	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.39	22.84	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.29	22.74	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.29	21.74	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.39	22.84	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.42	22.87	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.18	22.63	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.19	21.64	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.16	22.61	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.38	22.83	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.24	22.69	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.26	21.71	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.62	22.07	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.73	22.18	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.64	22.09	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.25	20.70	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.79	22.24	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.65	22.10	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.58	22.03	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.30	20.75	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.84	22.29	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.66	22.11	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.49	21.94	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.32	20.77	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.37	20.82	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.50	20.95	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#24	21.49	20.94	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.33	19.78	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.51	20.96	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.92	21.37	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.44	20.89	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.24	19.69	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.33	20.78	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.41	20.86	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.50	20.95	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.25	19.70	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.39	17.84	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.28	17.73	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.19	17.64	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.22	17.67	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.40	17.85	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.39	17.84	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.24	17.69	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.08	17.53	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.24	17.69	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.21	17.66	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.08	17.53	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.23	17.68	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.29	22.74	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.65	23.10	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.29	22.74	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.26	21.71	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.41	21.86	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.63	22.08	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.65	22.10	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.34	20.79	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.47	20.92	34.77	PASS



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Band13	10MHz	64QAM	23230	1RB#24	21.61	21.06	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.41	20.86	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.24	19.69	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.15	17.60	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.54	17.99	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.21	17.66	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	18.37	17.82	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.39	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.46	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	7.04	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	7.19	13	PASS



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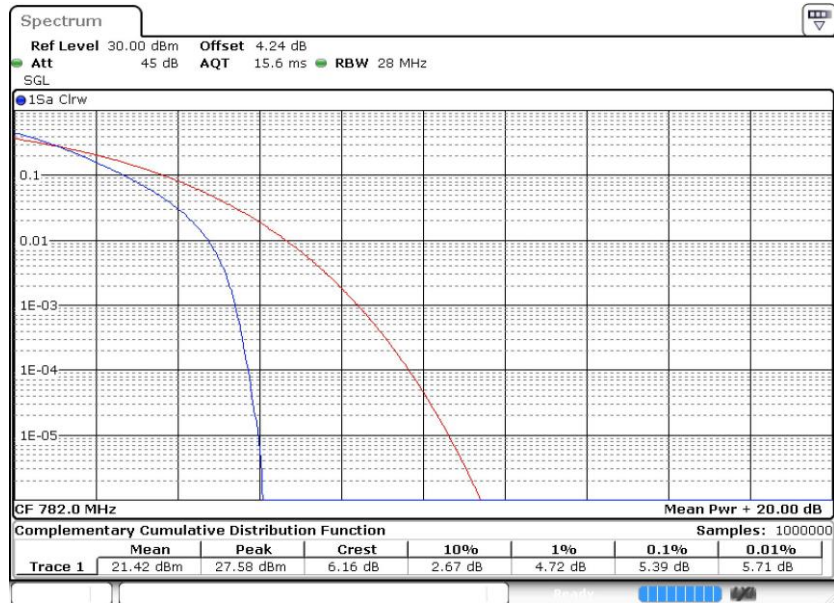


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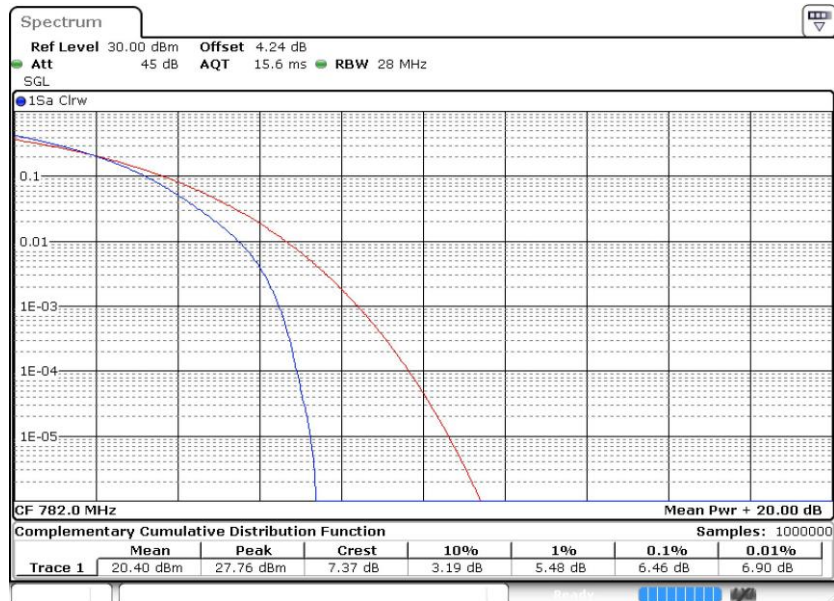
## Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Date: 19.DEC.2023 09:47:26

Band13-10MHz-16QAM-23230-50RB#0



Date: 19.DEC.2023 09:47:42



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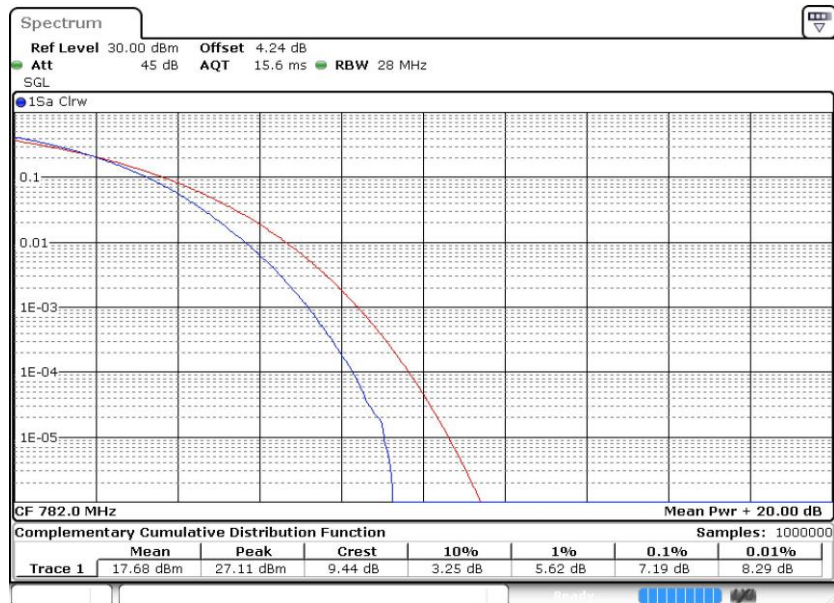
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## Band13-10MHz-64QAM-23230-50RB#0



Date: 19.DEC.2023 15:24:18

## Band13-10MHz-256QAM-23230-50RB#0



Date: 28.DEC.2023 17:14:05



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	5.00	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	5.02	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.466	4.93	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.456	4.94	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	5.05	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.476	4.99	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.99	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.486	5.11	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.456	5.05	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.466	4.97	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.476	5.03	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.466	4.95	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.76	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.78	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.80	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.931	9.78	PASS



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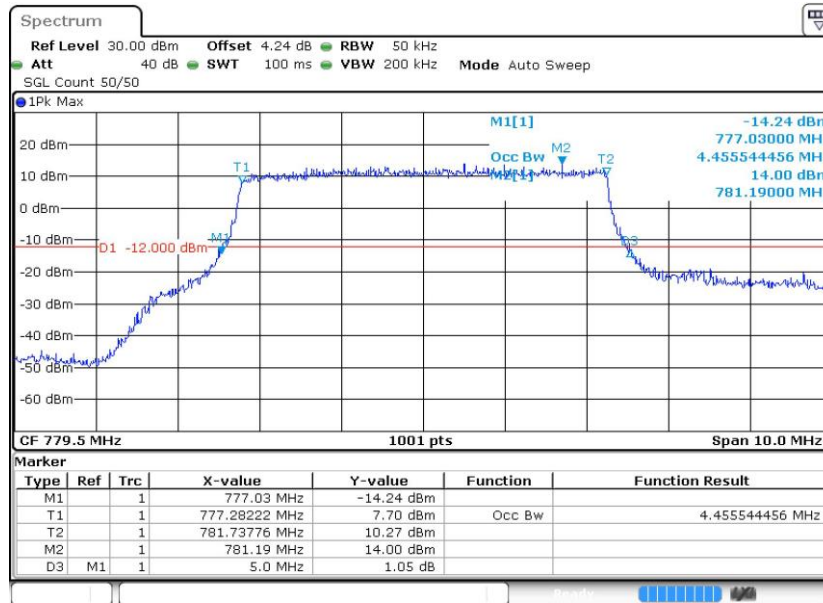


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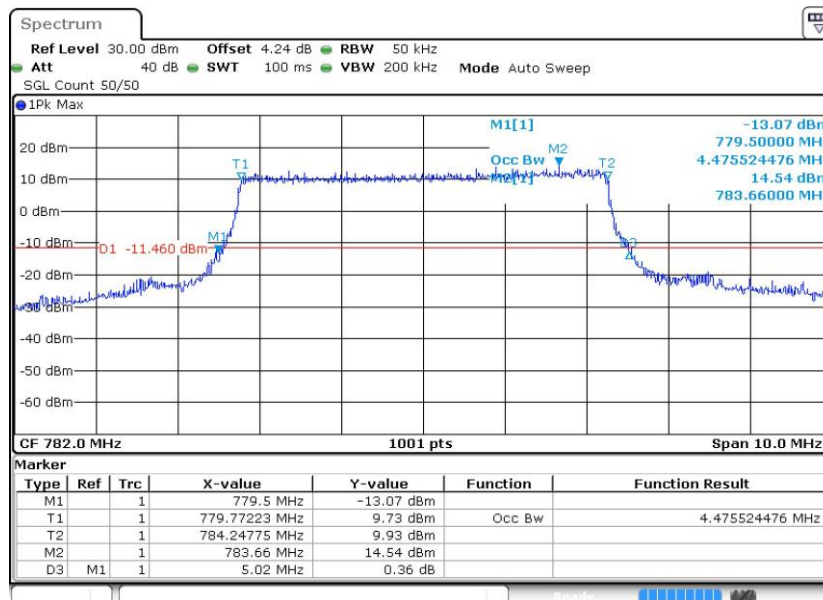
## Test Graphs

Band13-5MHz-QPSK-23205-25RB#0



Date: 19.DEC.2023 09:38:17

Band13-5MHz-QPSK-23230-25RB#0



Date: 19.DEC.2023 09:38:53



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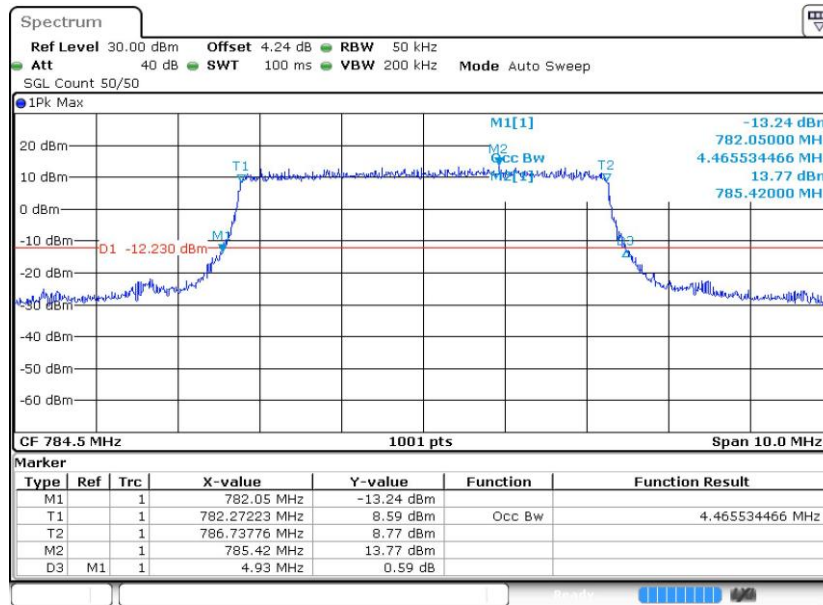
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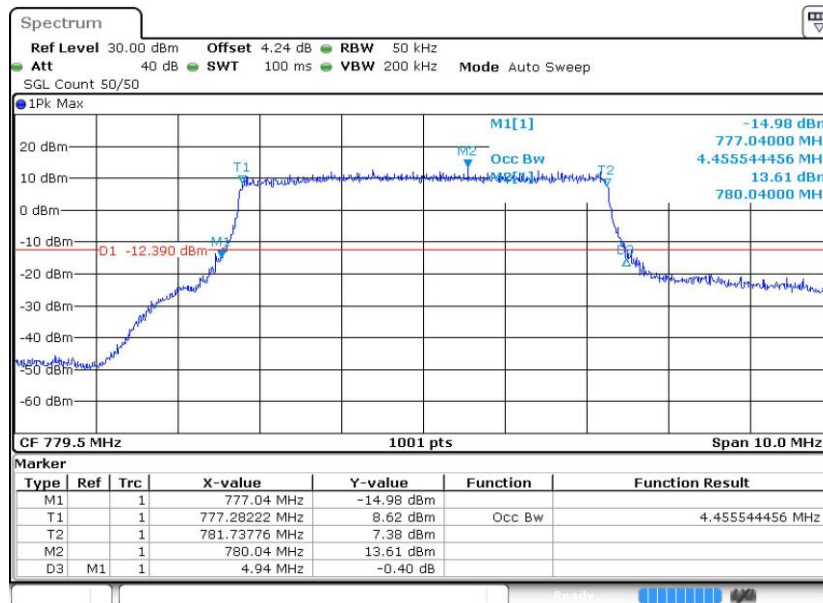
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## Band13-5MHz-QPSK-23255-25RB#0



Date: 19.DEC.2023 09:39:29

## Band13-5MHz-16QAM-23205-25RB#0



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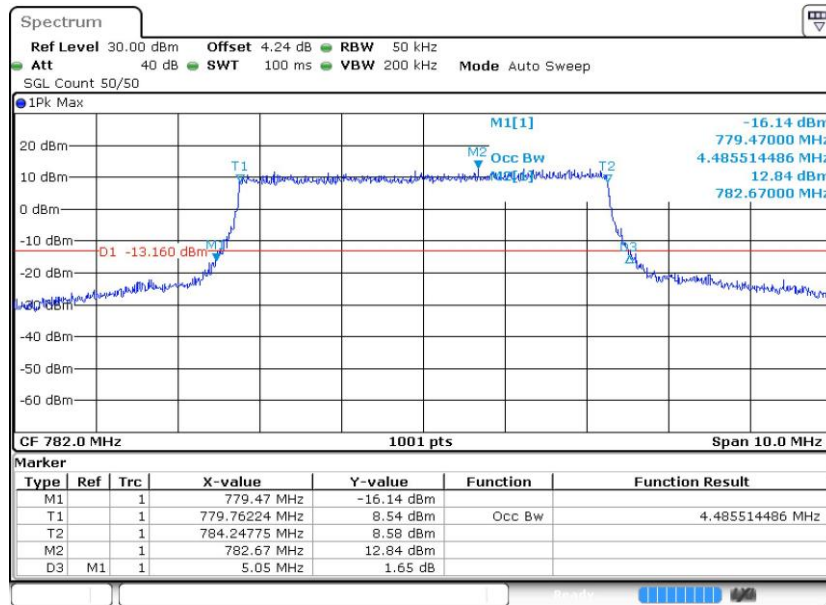
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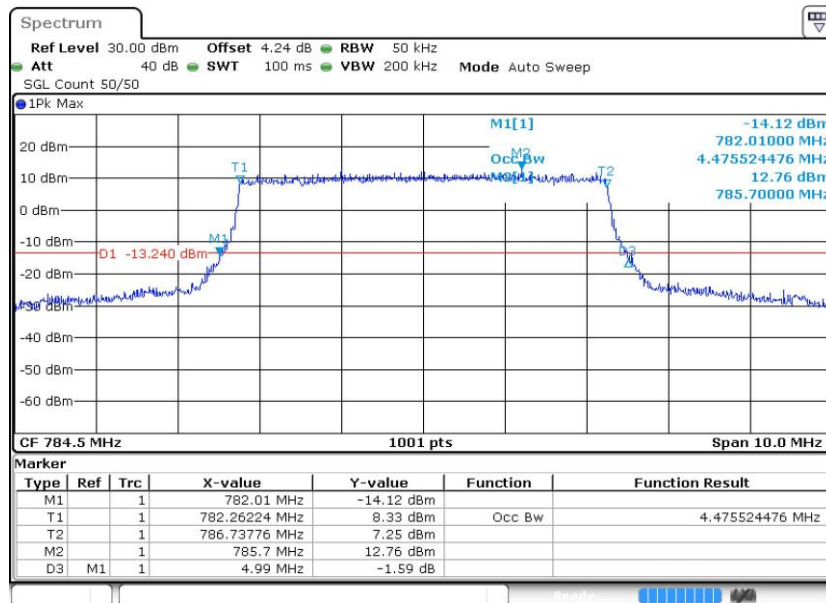
Report No.: ZEWA2312000155RG01  
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## Band13-5MHz-16QAM-23230-25RB#0



Date: 19.DEC.2023 09:39:11

## Band13-5MHz-16QAM-23255-25RB#0



Date: 19.DEC.2023 09:39:47



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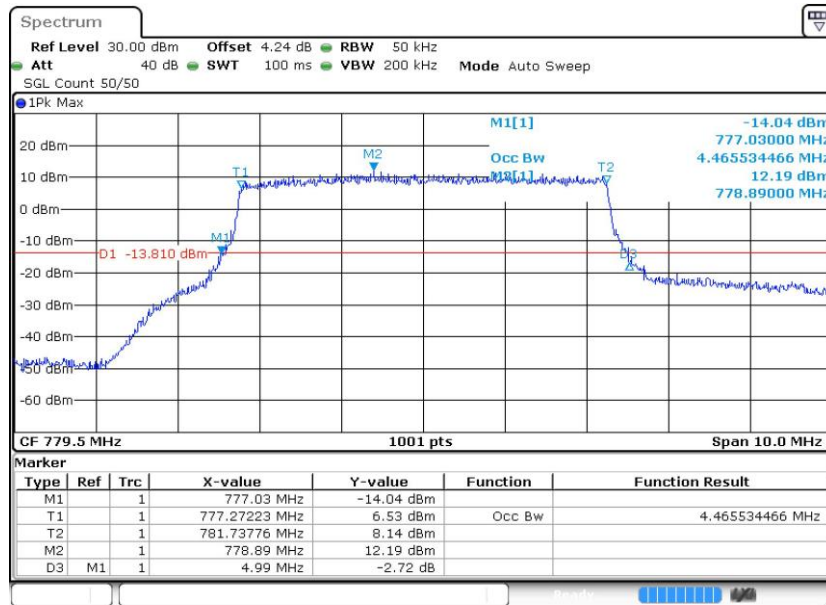
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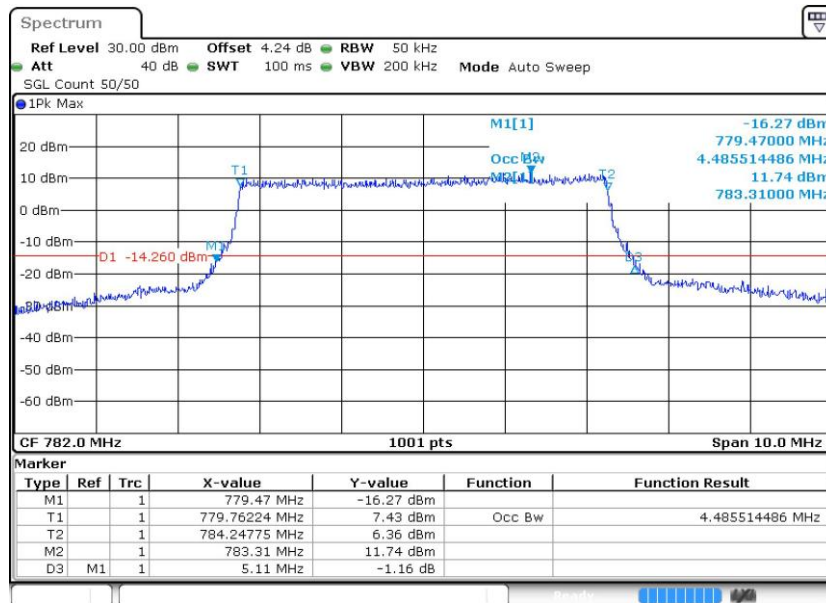
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## Band13-5MHz-64QAM-23205-25RB#0



Date: 19.DEC.2023 15:22:37

## Band13-5MHz-64QAM-23230-25RB#0



Date: 19.DEC.2023 15:22:55



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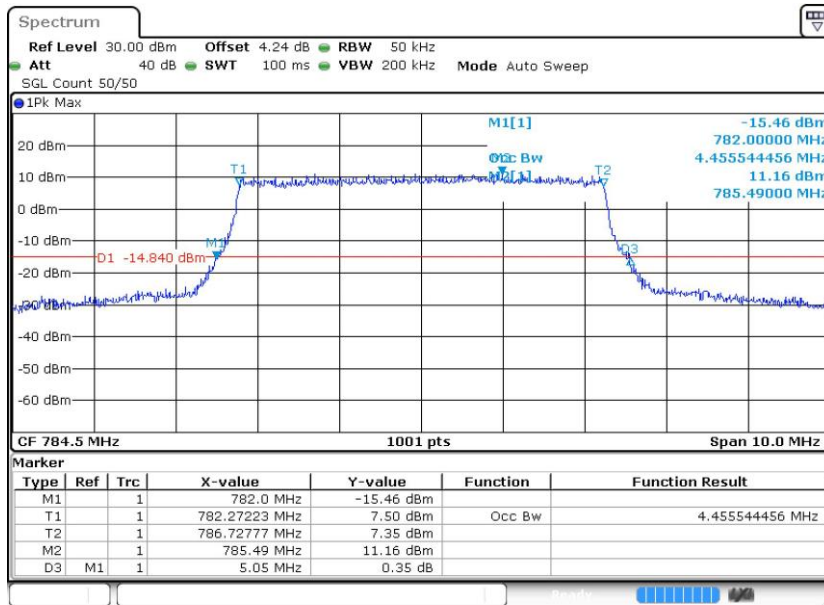
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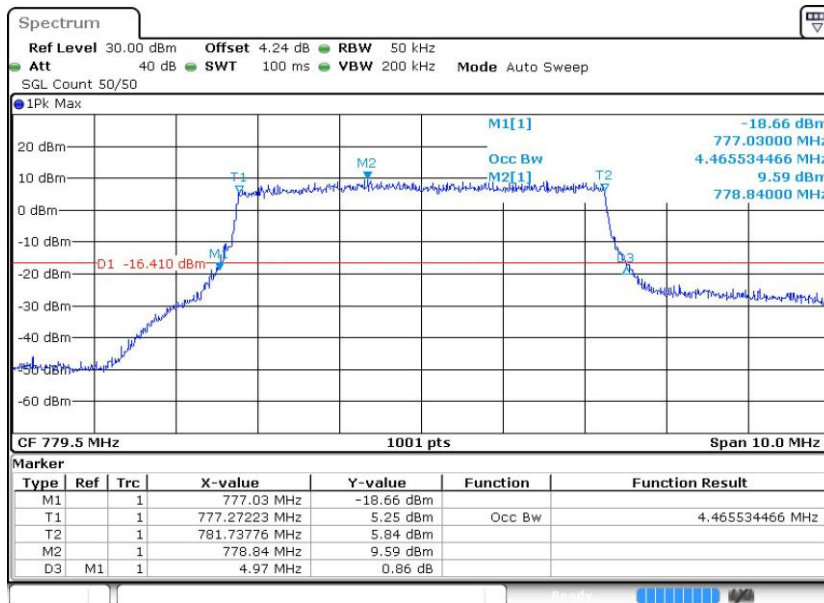
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## Band13-5MHz-64QAM-23255-25RB#0



Date: 19.DEC.2023 15:23:13

## Band13-5MHz-256QAM-23205-25RB#0



Date: 20.DEC.2023 09:13:51



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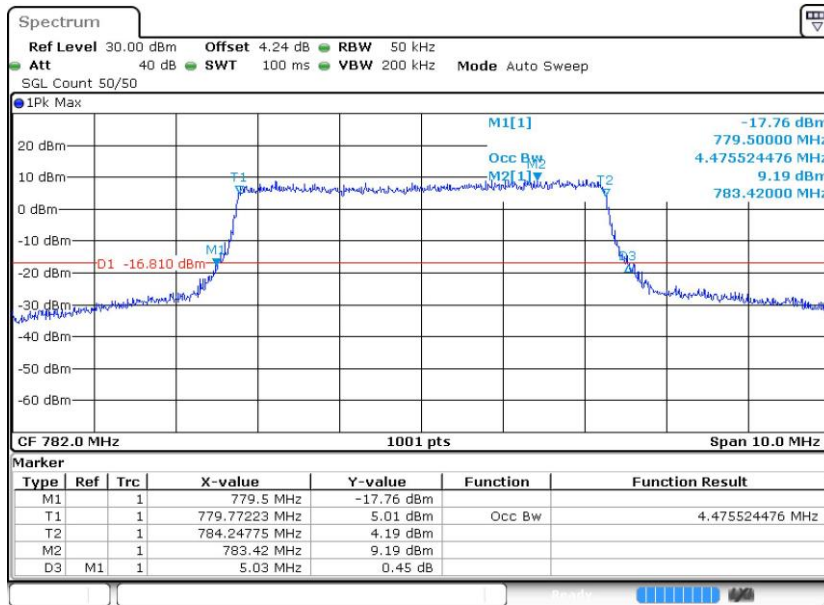
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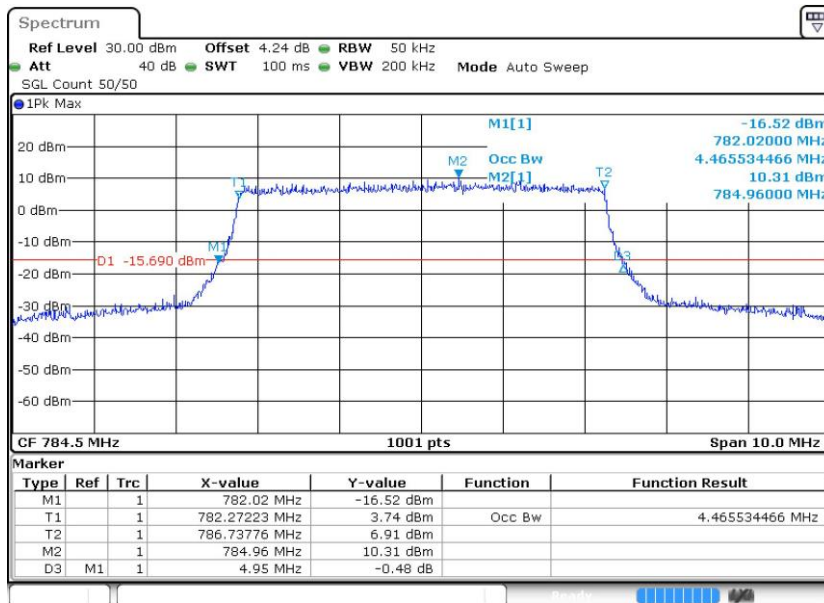
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## Band13-5MHz-256QAM-23230-25RB#0



Date: 20 DEC. 2023 09:14:14

## Band13-5MHz-256QAM-23255-25RB#0



Date: 20 DEC. 2023 09:14:34



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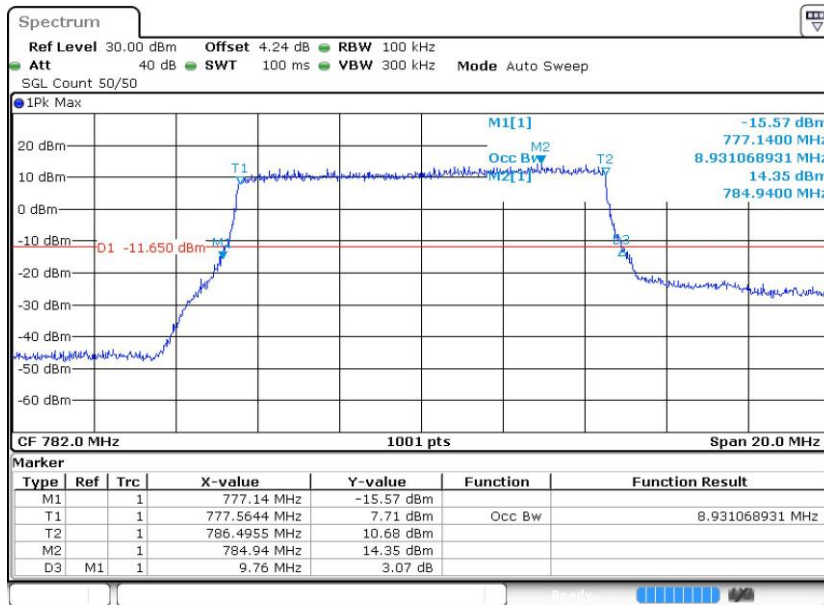
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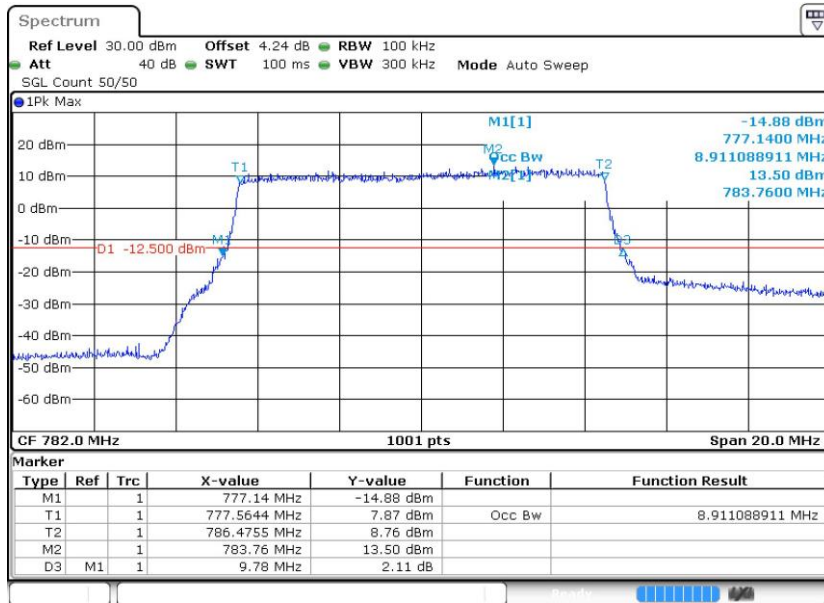
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## Band13-10MHz-QPSK-23230-50RB#0



## Band13-10MHz-16QAM-23230-50RB#0



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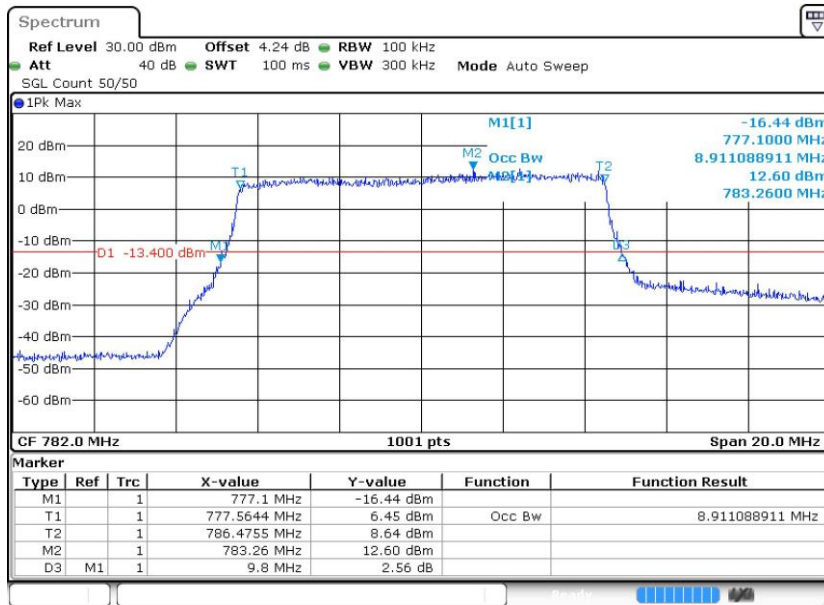
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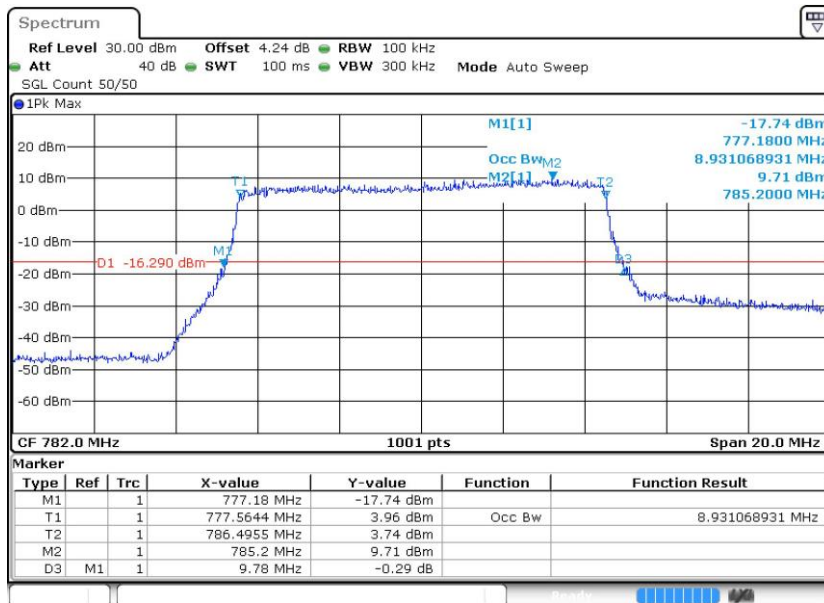
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## Band13-10MHz-64QAM-23230-50RB#0



Date: 19.DEC.2023 15:23:52

## Band13-10MHz-256QAM-23230-50RB#0



Date: 19.DEC.2023 21:09:27



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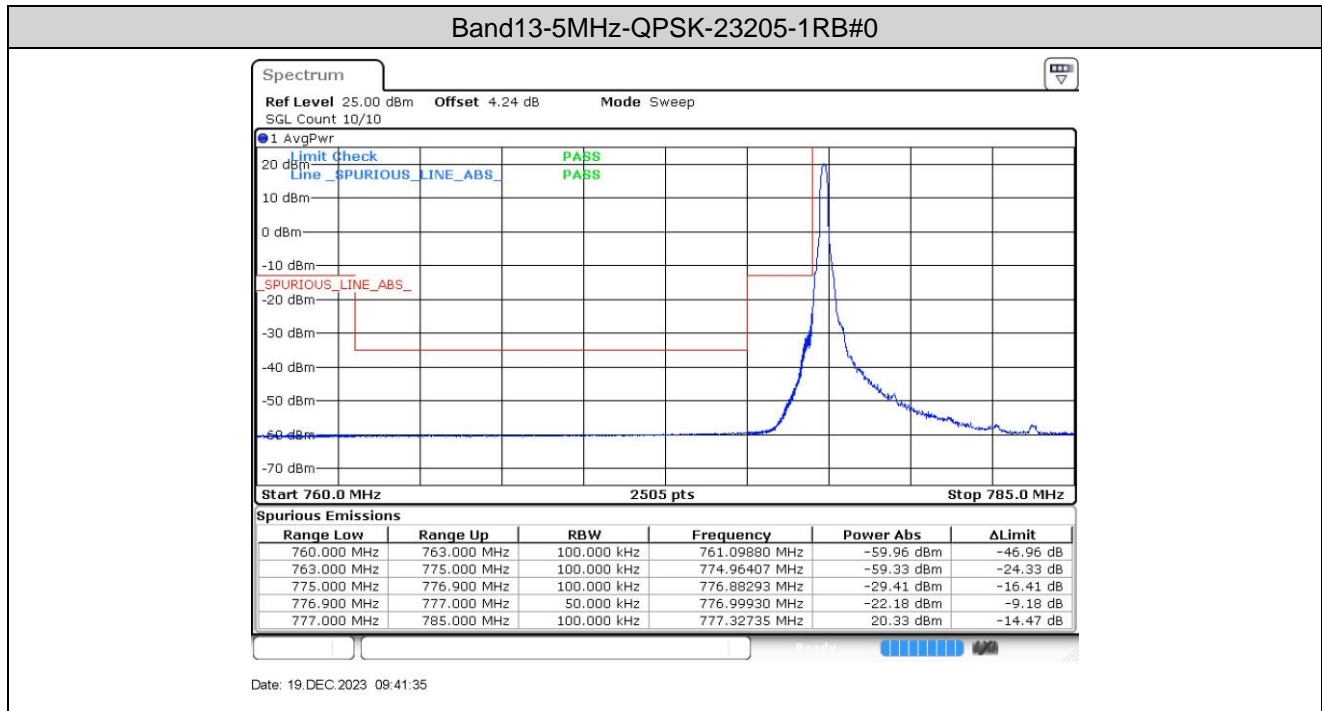


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## Band Edge

## Test Graphs



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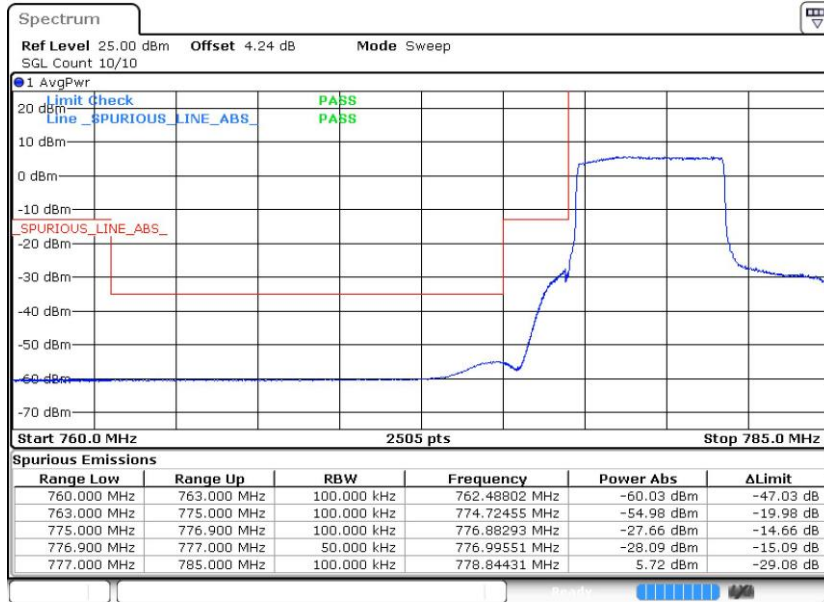
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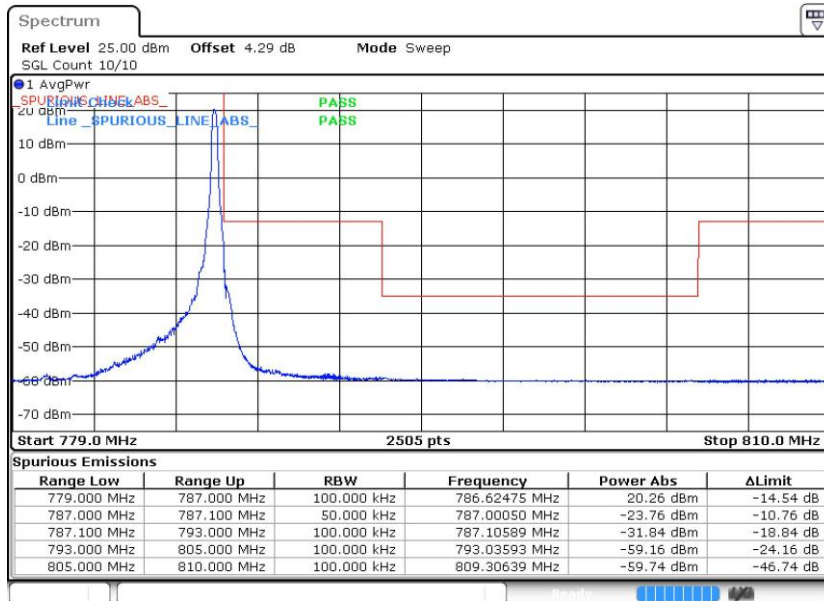
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## Band13-5MHz-QPSK-23205-25RB#0



Date: 19.DEC.2023 09:42:12

## Band13-5MHz-QPSK-23255-1RB#24



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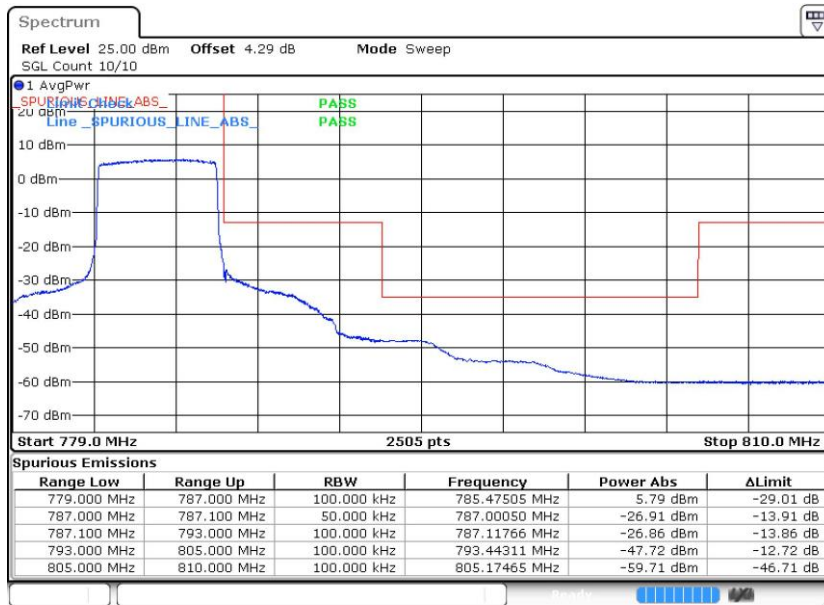
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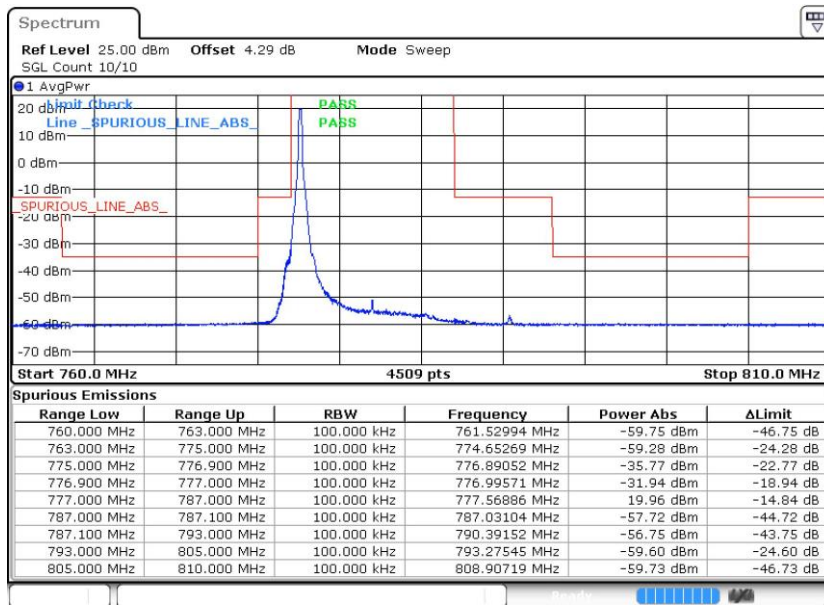
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## Band13-5MHz-QPSK-23255-25RB#0



## Band13-10MHz-QPSK-23230-1RB#0



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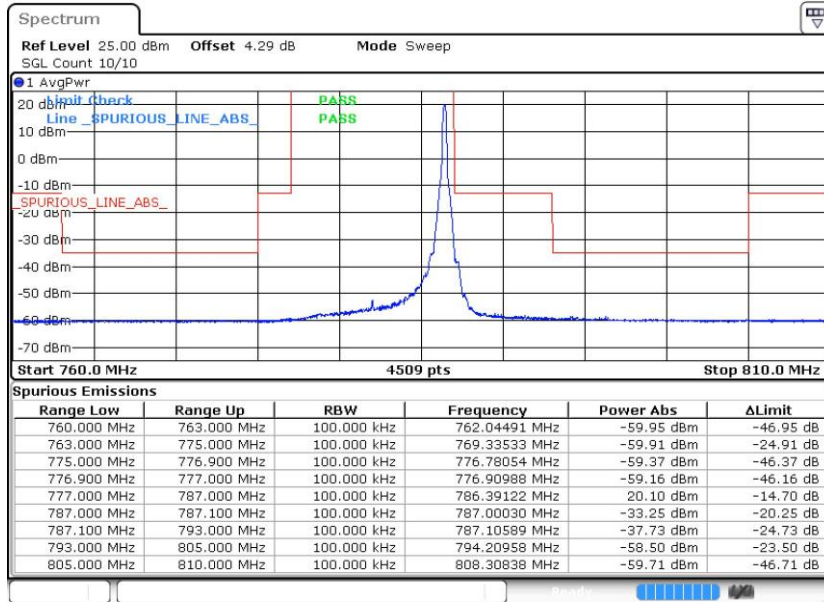
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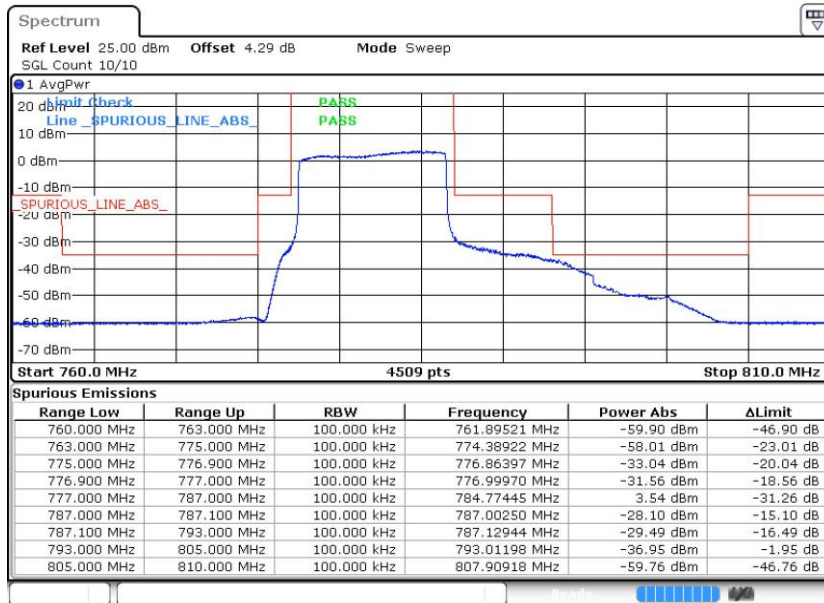
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## Band13-10MHz-QPSK-23230-1RB#49



## Band13-10MHz-QPSK-23230-50RB#0



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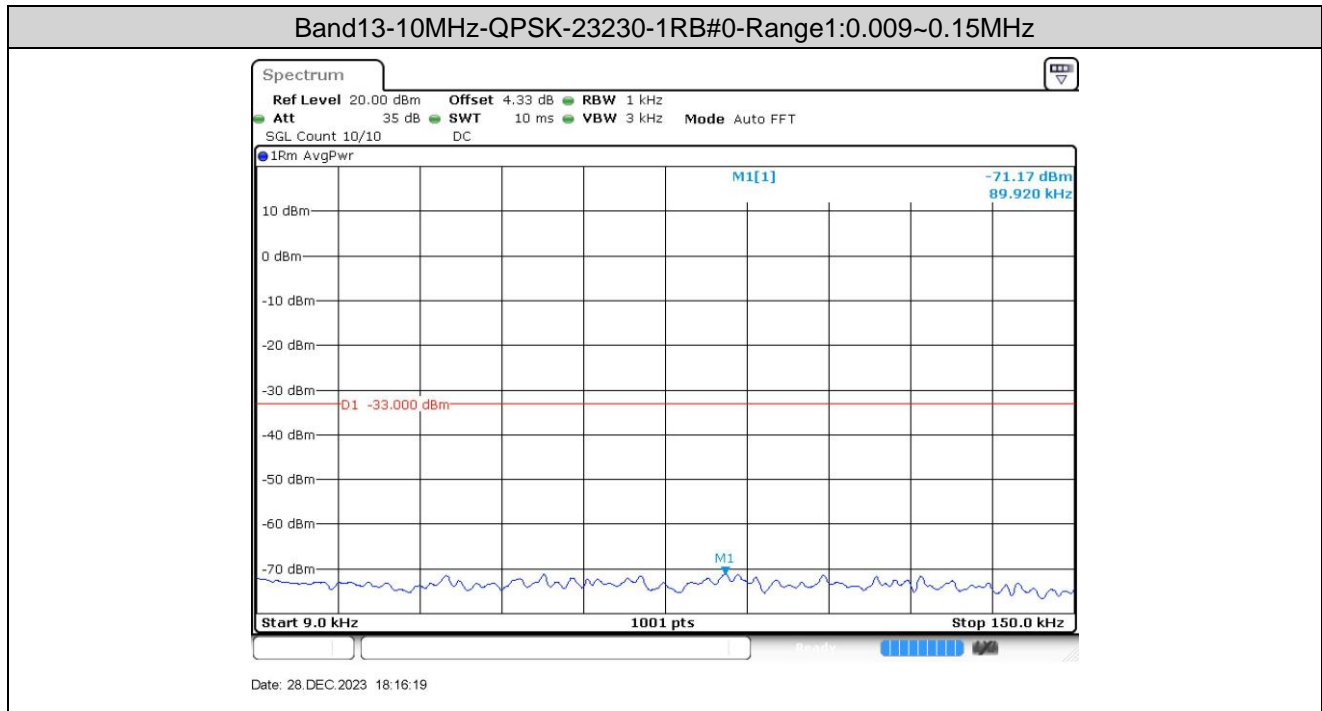


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## Conducted Spurious Emission

### Test Graphs



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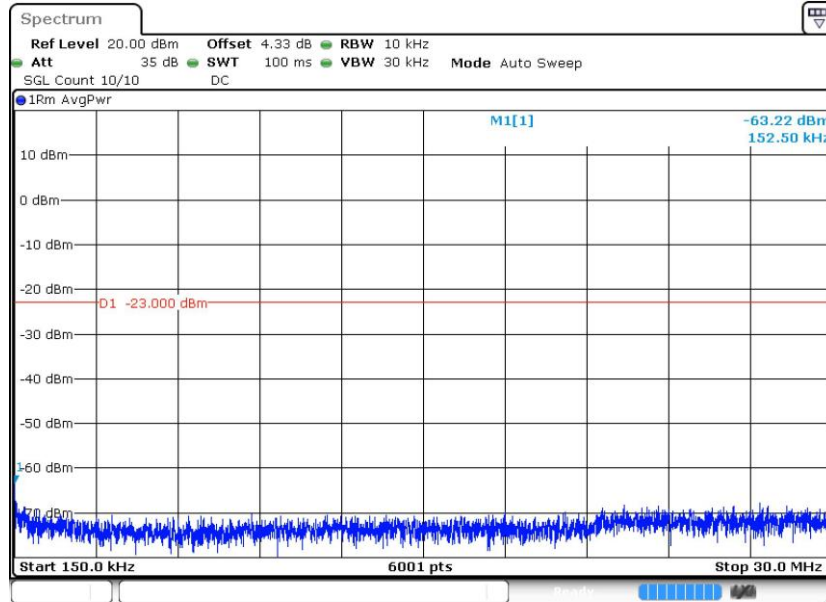
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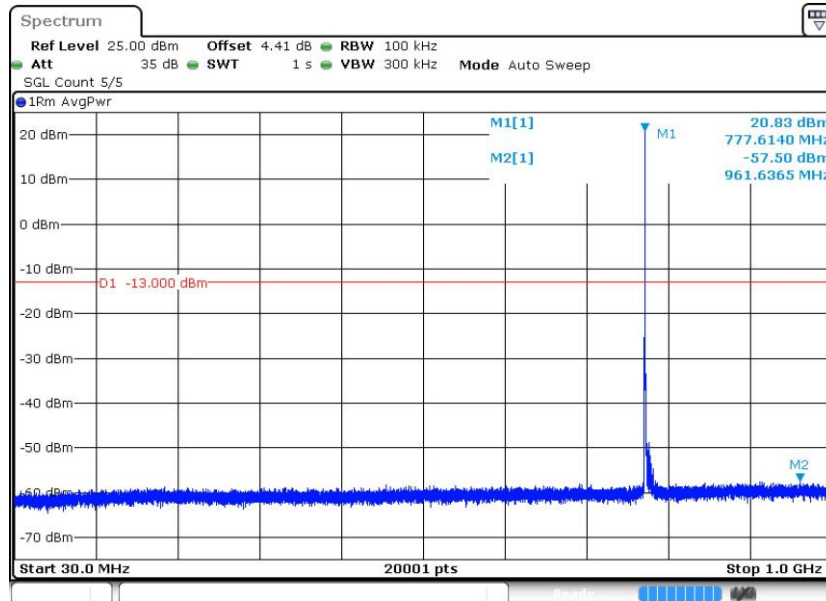
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## Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



Date: 28 DEC. 2023 18:16:23

## Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Date: 28 DEC. 2023 18:16:33



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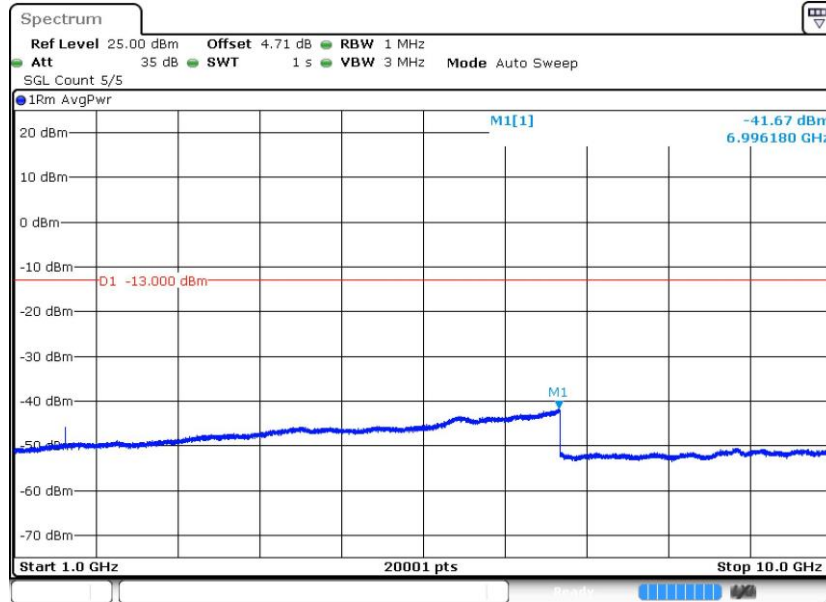
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Report No.: ZEWA2312000155RG01  
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## Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



Date: 28 DEC 2023 18:16:41



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## Field Strength of Spurious Radiation

Test Band = B13\_10M\_TM1  
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0000	47.22	24.67	-48.96	-72.33	-13.00	59.33	Horizontal
2	2332.5033	47.93	27.00	-48.26	-68.59	-13.00	55.59	Horizontal
3	3120.7248	45.02	28.62	-47.75	-69.37	-13.00	56.37	Horizontal
4	3887.5000	44.46	29.32	-47.20	-68.68	-13.00	55.68	Horizontal
5	4665.0000	44.69	30.60	-46.99	-66.96	-13.00	53.96	Horizontal
6	5442.5000	44.78	32.46	-46.83	-64.85	-13.00	51.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0000	46.42	24.67	-48.96	-73.13	-13.00	60.13	Vertical
2	2332.5033	50.65	27.00	-48.26	-65.87	-13.00	52.87	Vertical
3	3110.0000	45.97	28.62	-47.80	-68.47	-13.00	55.47	Vertical
4	3887.5000	44.85	29.32	-47.20	-68.29	-13.00	55.29	Vertical
5	4665.0000	44.64	30.60	-46.99	-67.01	-13.00	54.01	Vertical
6	5442.5000	44.76	32.46	-46.83	-64.87	-13.00	51.87	Vertical



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**Test Band = B13\_5M\_TM1**  
**Test Channel = Low channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	46.87	24.66	-48.97	-72.70	-13.00	59.70	Horizontal
2	2332.0333	49.04	27.00	-48.26	-67.48	-13.00	54.48	Horizontal
3	3109.0000	46.39	28.62	-47.81	-68.06	-13.00	55.06	Horizontal
4	3886.2500	44.42	29.32	-47.20	-68.72	-13.00	55.72	Horizontal
5	4663.5000	45.57	30.59	-46.99	-66.09	-13.00	53.09	Horizontal
6	5440.7500	44.69	32.46	-46.83	-64.94	-13.00	51.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	46.62	24.66	-48.97	-72.95	-13.00	59.95	Vertical
2	2332.0333	53.14	27.00	-48.26	-63.38	-13.00	50.38	Vertical
3	3109.0000	45.36	28.62	-47.81	-69.09	-13.00	56.09	Vertical
4	3886.2500	44.59	29.32	-47.20	-68.55	-13.00	55.55	Vertical
5	4663.5000	44.47	30.59	-46.99	-67.19	-13.00	54.19	Vertical
6	5440.7500	44.80	32.46	-46.83	-64.83	-13.00	51.83	Vertical



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**Test Band = B13\_5M\_TM1**  
**Test Channel = Mid channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5000	46.54	24.68	-48.96	-73.00	-40.00	33.00	Horizontal
2	2339.2500	45.83	27.01	-48.26	-70.68	-13.00	57.68	Horizontal
3	3119.0000	45.09	28.62	-47.76	-69.31	-13.00	56.31	Horizontal
4	3898.7500	44.78	29.34	-47.16	-68.30	-13.00	55.30	Horizontal
5	4678.5000	45.00	30.63	-46.99	-66.62	-13.00	53.62	Horizontal
6	5458.2500	44.80	32.50	-46.88	-64.84	-13.00	51.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5000	45.65	24.68	-48.96	-73.89	-40.00	33.89	Vertical
2	2339.2500	47.75	27.01	-48.26	-68.76	-13.00	55.76	Vertical
3	3119.0000	45.56	28.62	-47.76	-68.84	-13.00	55.84	Vertical
4	3898.7500	44.69	29.34	-47.16	-68.39	-13.00	55.39	Vertical
5	4678.5000	44.94	30.63	-46.99	-66.68	-13.00	53.68	Vertical
6	5458.2500	44.56	32.50	-46.88	-65.08	-13.00	52.08	Vertical



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**Test Band = B13\_5M\_TM1**  
**Test Channel = High channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5000	46.41	24.69	-48.96	-73.12	-40.00	33.12	Horizontal
2	2347.0739	47.74	27.03	-48.26	-68.75	-13.00	55.75	Horizontal
3	3129.0000	45.19	28.63	-47.71	-69.15	-13.00	56.15	Horizontal
4	3911.2500	44.81	29.36	-47.18	-68.27	-13.00	55.27	Horizontal
5	4693.5000	44.30	30.67	-46.98	-67.27	-13.00	54.27	Horizontal
6	5475.7500	44.46	32.54	-46.93	-65.19	-13.00	52.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5000	46.12	24.69	-48.96	-73.41	-40.00	33.41	Vertical
2	2347.5439	46.95	27.03	-48.26	-69.54	-13.00	56.54	Vertical
3	3129.0000	45.46	28.63	-47.71	-68.88	-13.00	55.88	Vertical
4	3911.2500	44.53	29.36	-47.18	-68.55	-13.00	55.55	Vertical
5	4693.5000	44.72	30.67	-46.98	-66.85	-13.00	53.85	Vertical
6	5475.7500	44.55	32.54	-46.93	-65.10	-13.00	52.10	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	2.50	0.003197	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.30	0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.40	0.000512	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	3.20	0.004092	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.90	0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.90	0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	2.20	0.002813	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.90	0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.90	0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.80	0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.20	0.001535	PASS

---End of Attachment---



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