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Appendix B.6

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.53	21.88	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.47	21.82	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.62	21.97	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.59	20.94	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.57	21.92	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.61	21.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.57	21.92	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.68	21.03	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.67	22.02	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.66	22.01	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.60	21.95	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.63	20.98	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.74	21.09	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.75	21.10	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.85	21.20	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.59	19.94	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.78	21.13	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.89	21.24	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.79	21.14	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.67	20.02	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.97	21.32	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.90	21.25	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.79	21.14	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.68	20.03	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.72	20.07	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#12	21.67	20.02	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.78	20.13	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.60	18.95	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.80	20.15	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.70	20.05	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.79	20.14	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.69	19.04	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.89	20.24	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.85	20.20	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.79	20.14	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.67	19.02	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.61	21.96	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.63	21.98	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.54	21.89	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.65	21.00	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.94	21.29	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.82	21.17	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.85	21.20	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.69	20.04	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.77	20.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.84	20.19	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.72	20.07	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.70	19.05	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	5.14	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.94	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.38	13	PASS



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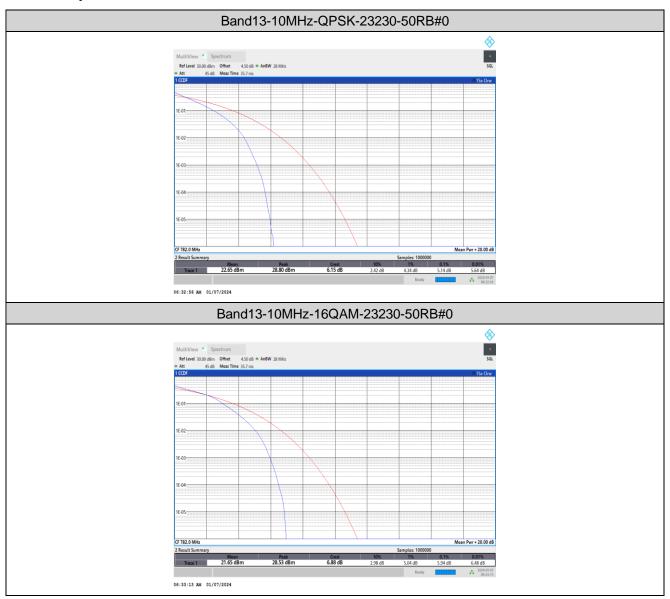


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Test Graphs





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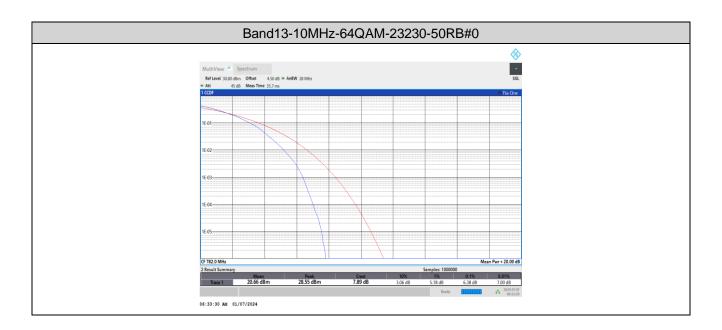
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23230	25RB#0	4.471	4.86	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	4.90	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.477	4.90	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.921	9.66	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.905	9.66	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.922	9.64	PASS



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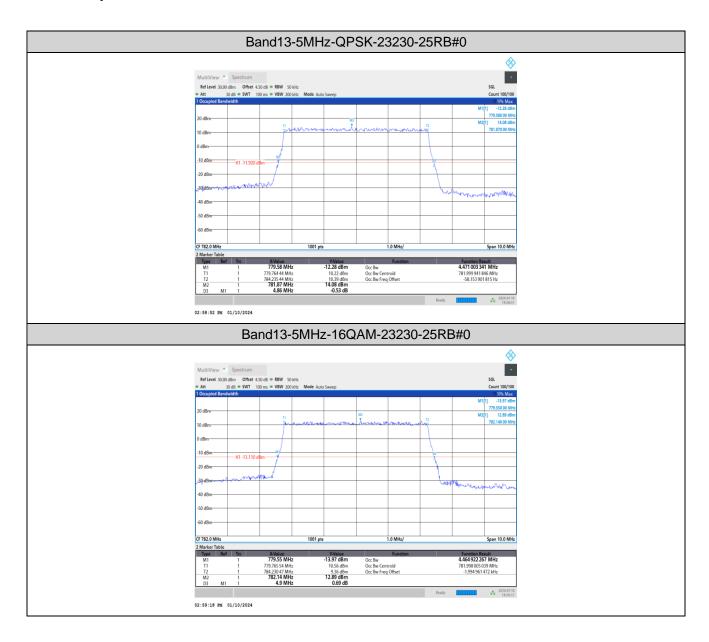


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Test Graphs





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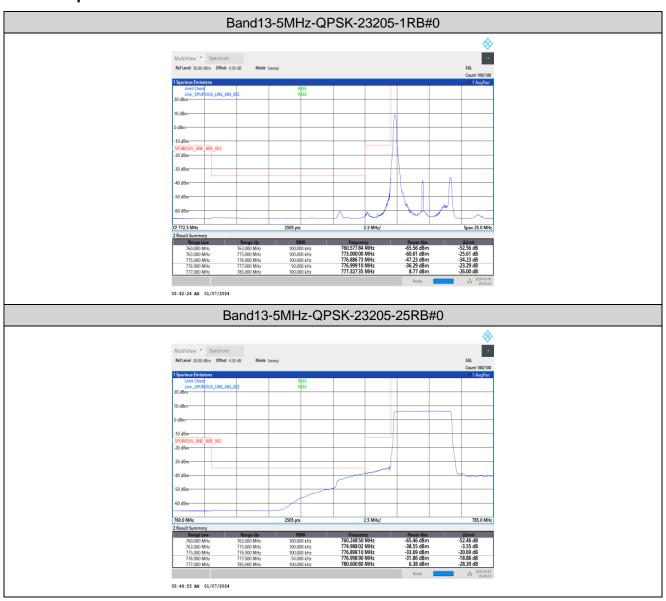
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Band Edge

Test Graphs





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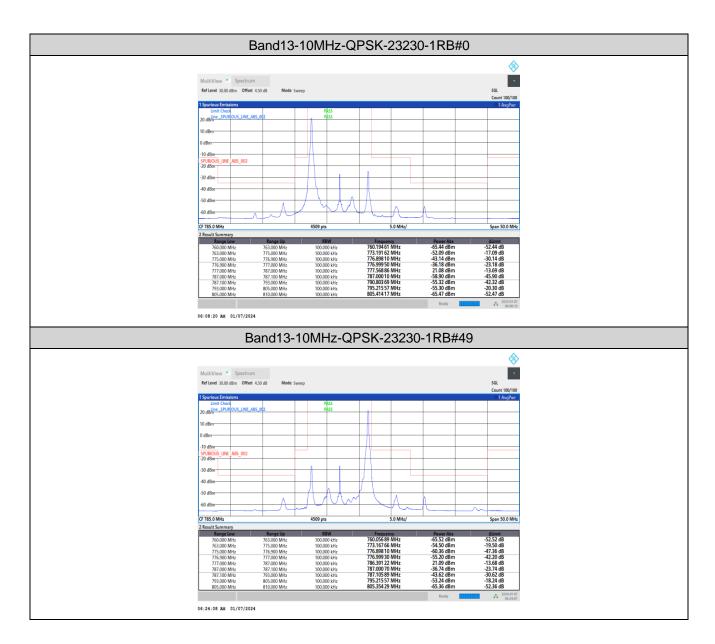
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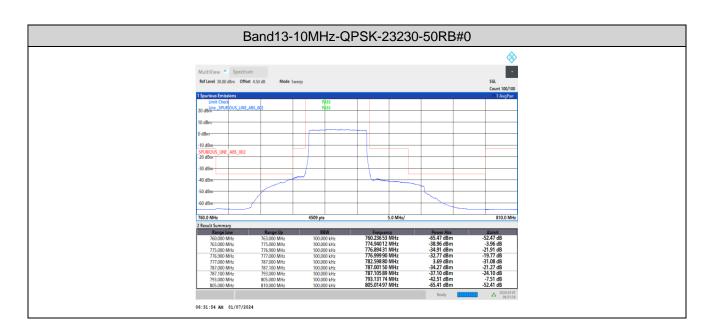
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Conducted Spurious Emission

Test Graphs





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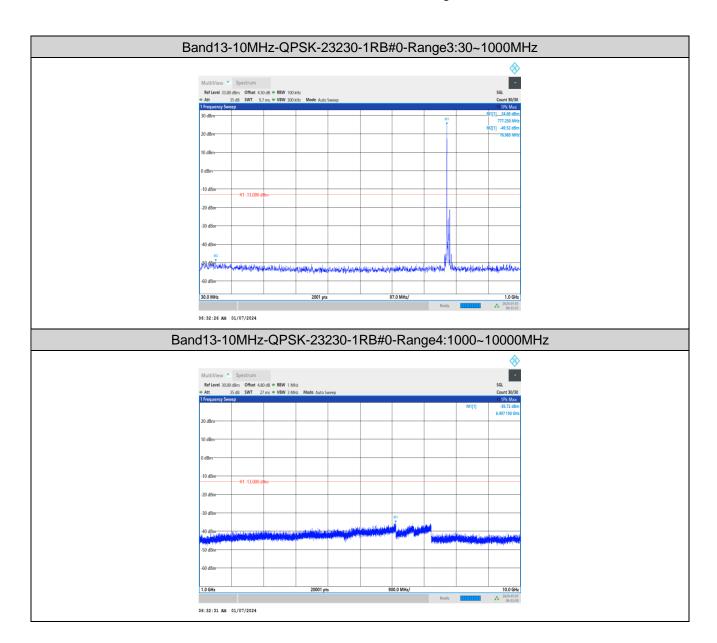
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Field Strength of Spurious Radiation

Test Band = LTE Band 13 BW 10M_ TM1 Test Channel = Mid Channel

Final	Data List							
NO	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1555.18	38.63	-46.92	24.71	-78.84	-13.00	65.84	Horizontal
2	2332.77	34.53	-45.39	27.03	-79.09	-13.00	66.09	Horizontal
3	3110.36	32.60	-43.99	29.52	-77.12	-13.00	64.12	Horizontal
4	3887.95	32.17	-42.90	30.92	-75.08	-13.00	62.08	Horizontal
5	4665.54	32.93	-41.59	32.47	-71.45	-13.00	58.45	Horizontal
6	5443.13	33.36	-40.74	33.11	-69.53	-13.00	56.53	Horizontal

Final	Final Data List										
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	1555.18	38.38	-46.92	24.71	-79.09	-13.00	66.09	Vertical			
2	2332.77	36.28	-45.39	27.03	-77.34	-13.00	64.34	Vertical			
3	3110.36	34.00	-43.99	29.52	-75.72	-13.00	62.72	Vertical			
4	3887.95	32.58	-42.90	30.92	-74.67	-13.00	61.67	Vertical			
5	4665.54	33.06	-41.59	32.47	-71.32	-13.00	58.32	Vertical			
6	5443.13	33.61	-40.74	33.11	-69.28	-13.00	56.28	Vertical			



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Test Band = LTE Band 13 BW 5M_ TM1 Test Channel = Low Channel

Final	Data List							
NO	Frequency	Reading	Factor	↑ □ [d □ /m]	Level	Limit	Margin	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1554.68	38.91	-46.92	24.71	-78.56	-13.00	65.56	Horizontal
2	2332.02	34.51	-45.39	27.03	-79.11	-13.00	66.11	Horizontal
3	3109.36	32.25	-43.99	29.52	-77.48	-13.00	64.48	Horizontal
4	3886.7	32.32	-42.91	30.92	-74.93	-13.00	61.93	Horizontal
5	4664.04	32.44	-41.59	32.46	-71.95	-13.00	58.95	Horizontal
6	5441.38	33.15	-40.74	33.11	-69.74	-13.00	56.74	Horizontal

Final	Final Data List										
NO	Frequency	Reading	Factor	A [[- D/]	Level	Limit	Margin	Delevite			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	1554.68	38.49	-46.92	24.71	-78.98	-13.00	65.98	Vertical			
2	2332.02	35.82	-45.39	27.03	-77.80	-13.00	64.80	Vertical			
3	3109.36	33.24	-43.99	29.52	-76.49	-13.00	63.49	Vertical			
4	3886.7	32.00	-42.91	30.92	-75.25	-13.00	62.25	Vertical			
5	4664.04	32.42	-41.59	32.46	-71.97	-13.00	58.97	Vertical			
6	5441.38	33.77	-40.74	33.11	-69.12	-13.00	56.12	Vertical			



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Test Band = LTE Band 13 BW 5M_ TM1 Test Channel = Mid Channel

Final	Data List							
NO	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1559.68	38.39	-46.91	24.70	-79.08	-40.00	39.08	Horizontal
2	2339.52	34.31	-45.38	27.05	-79.28	-13.00	66.28	Horizontal
3	3119.36	32.56	-43.97	29.52	-77.15	-13.00	64.15	Horizontal
4	3899.2	32.36	-42.89	30.96	-74.83	-13.00	61.83	Horizontal
5	4679.04	32.77	-41.55	32.49	-71.54	-13.00	58.54	Horizontal
6	5458.88	33.56	-40.71	33.11	-69.30	-13.00	56.30	Horizontal

Final	Final Data List											
NO	Frequency	Reading	Factor	Λ Γ[-ID/]	Level	Limit	Margin	Delevite				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity				
1	1559.68	38.97	-46.91	24.70	-78.50	-40.00	38.50	Vertical				
2	2339.52	36.11	-45.38	27.05	-77.48	-13.00	64.48	Vertical				
3	3119.36	33.41	-43.97	29.52	-76.30	-13.00	63.30	Vertical				
4	3899.2	32.72	-42.89	30.96	-74.47	-13.00	61.47	Vertical				
5	4679.04	32.53	-41.55	32.49	-71.78	-13.00	58.78	Vertical				
6	5458.88	34.14	-40.71	33.11	-68.72	-13.00	55.72	Vertical				



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Test Band = LTE Band 13 BW 5M_ TM1 Test Channel = High Channel

Final Data List										
NO.	Frequency	Reading	Factor	Λ Γ[dD/∞1	Level	Limit	Margin	Dolority		
110.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity		
1	1564.68	38.12	-46.89	24.69	-79.34	-40.00	39.34	Horizontal		
2	2347.02	34.09	-45.36	27.06	-79.47	-13.00	66.47	Horizontal		
3	3129.36	32.48	-43.96	29.53	-77.22	-13.00	64.22	Horizontal		
4	3911.7	31.58	-42.88	31.00	-75.56	-13.00	62.56	Horizontal		
5	4694.04	32.06	-41.50	32.53	-72.17	-13.00	59.17	Horizontal		
6	5476.38	33.16	-40.67	33.10	-69.67	-13.00	56.67	Horizontal		

Final	Data List							
NO	Frequency	Reading	Factor	↑ □[d□/m]	Level	Limit	Margin	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1564.68	38.85	-46.89	24.69	-78.61	-40.00	38.61	Vertical
2	2347.02	36.90	-45.36	27.06	-76.66	-13.00	63.66	Vertical
3	3129.36	33.43	-43.96	29.53	-76.27	-13.00	63.27	Vertical
4	3911.7	32.71	-42.88	31.00	-74.43	-13.00	61.43	Vertical
5	4694.04	32.59	-41.50	32.53	-71.64	-13.00	58.64	Vertical
6	5476.38	33.50	-40.67	33.10	-69.33	-13.00	56.33	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	-1.60	-0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.50	-0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	4.90	0.006266	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	6.50	0.008312	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	5.60	0.007161	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.40	0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.70	-0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.10	-0.001407	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.70	-0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.70	-0.003453	PASS

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