

Report No.: SEWM2212000310RG01
Rev.: 02
Page: 1 of 24

Appendix B.2

WCDMA Band V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	23.26	19.81	38.45	PASS
Band5	4182	23.32	19.87	38.45	PASS
Band5	4233	23.09	19.64	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	3.16	13	PASS
Band5	4182	3.42	13	PASS
Band5	4233	3.38	13	PASS



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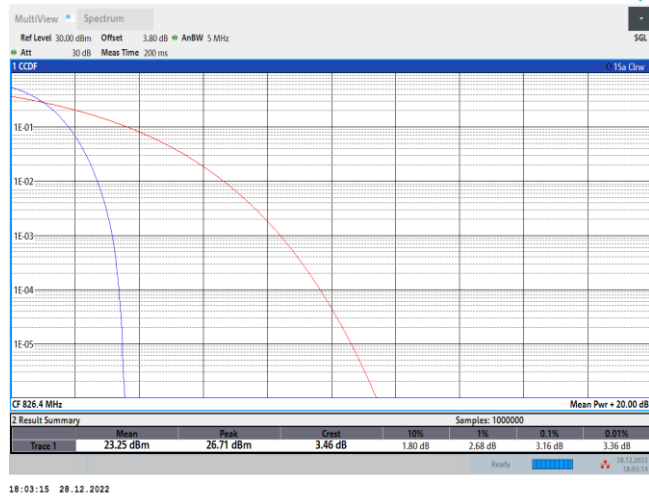
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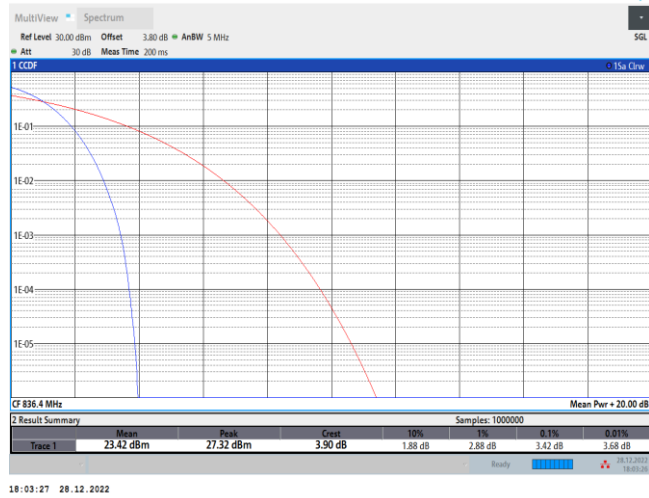
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Test Graphs

Band5-4132



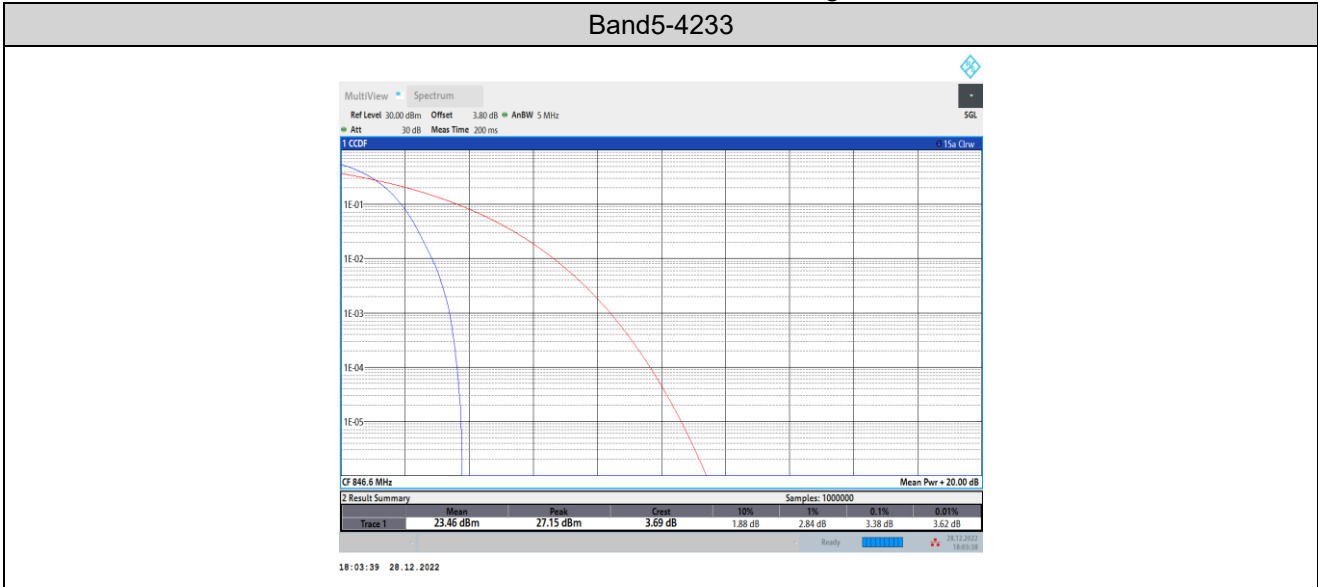
Band5-4182



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Band5-4233



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Modulation Characteristics

Test Result

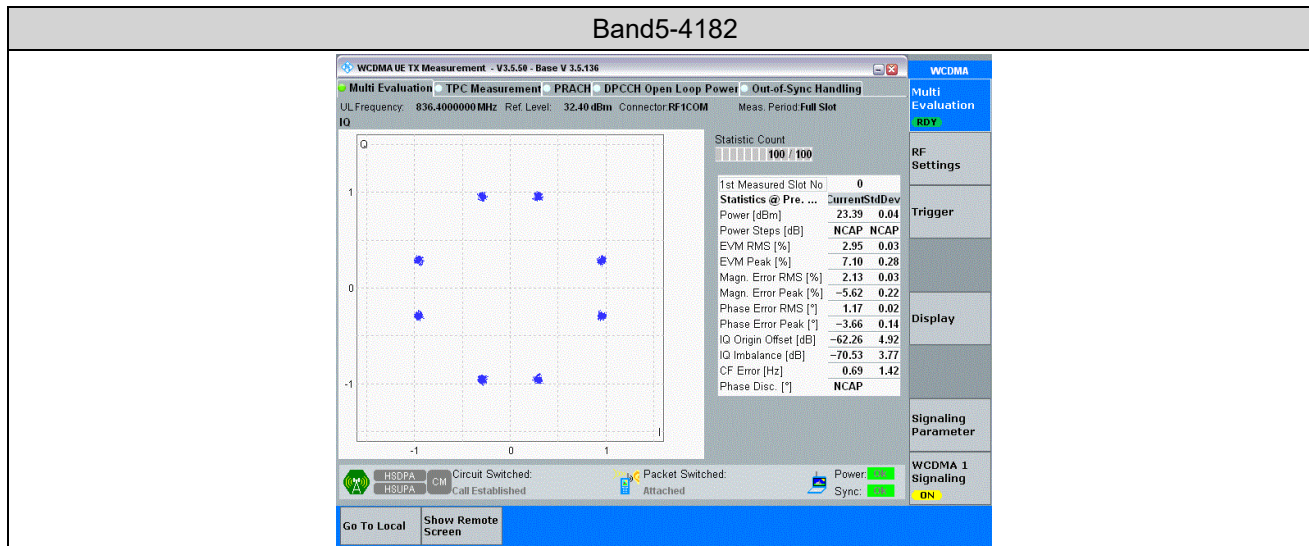
Band	Channel	Result	Verdict
Band5	4182	PASS	PASS



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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.136	4.71	---	PASS
Band5	4182	4.142	4.71	---	PASS
Band5	4233	4.149	4.73	---	PASS



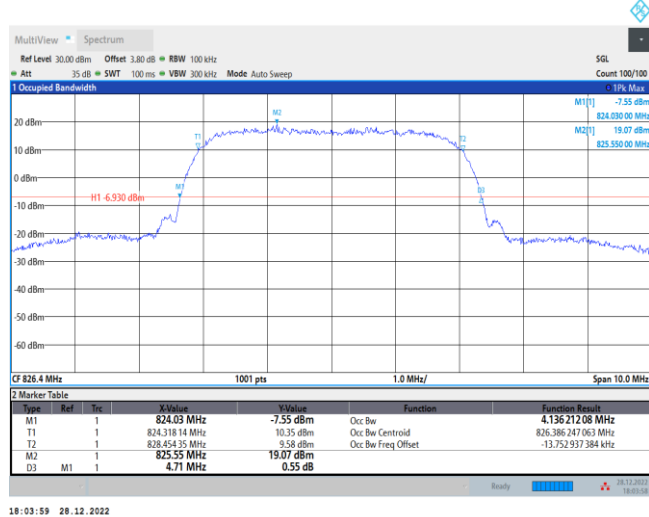
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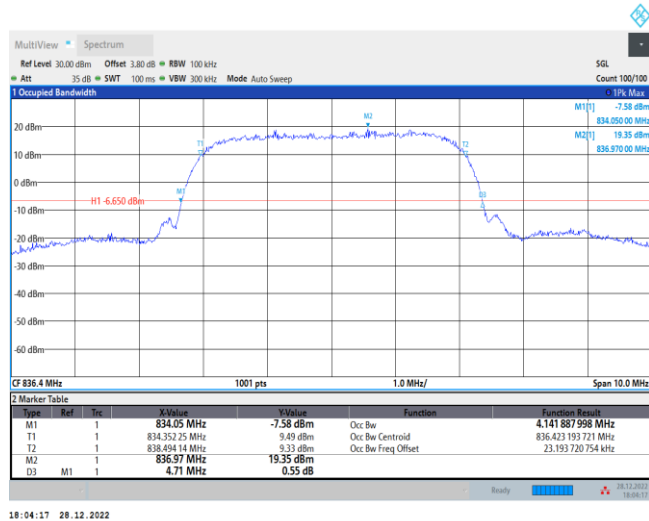
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Test Graphs

Band5-4132



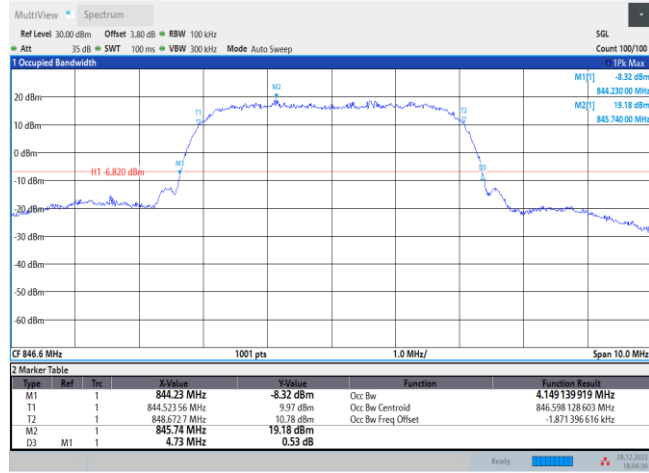
Band5-4182



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Band5-4233



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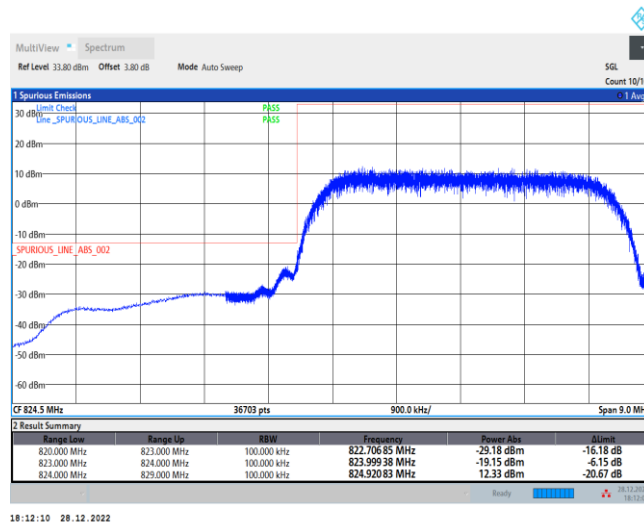
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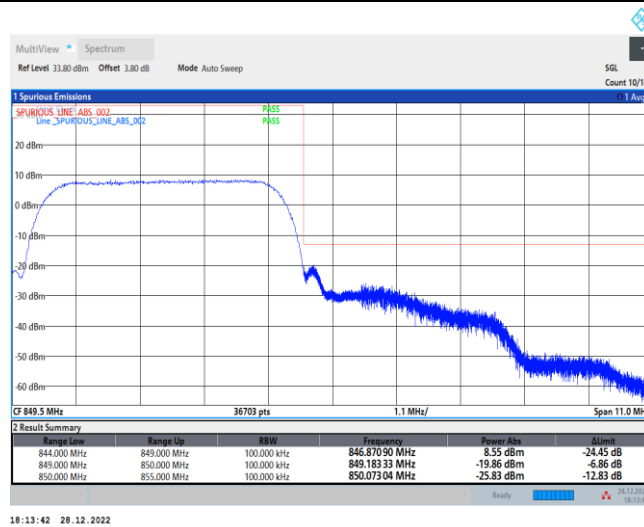
Band Edge

Test Graphs

Band5-4132



Band5-4233



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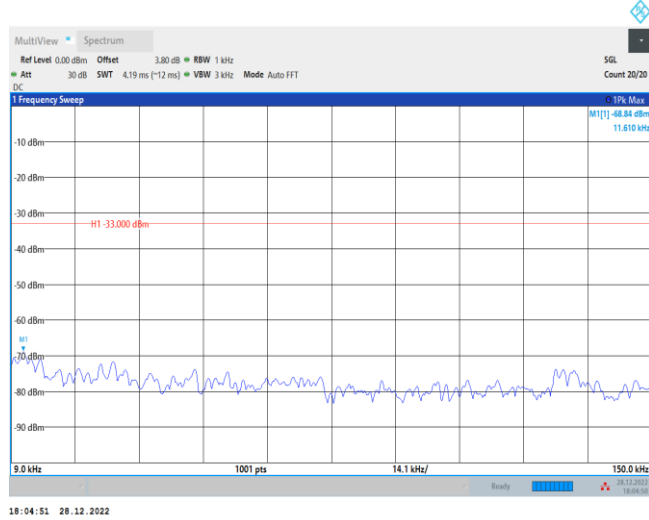
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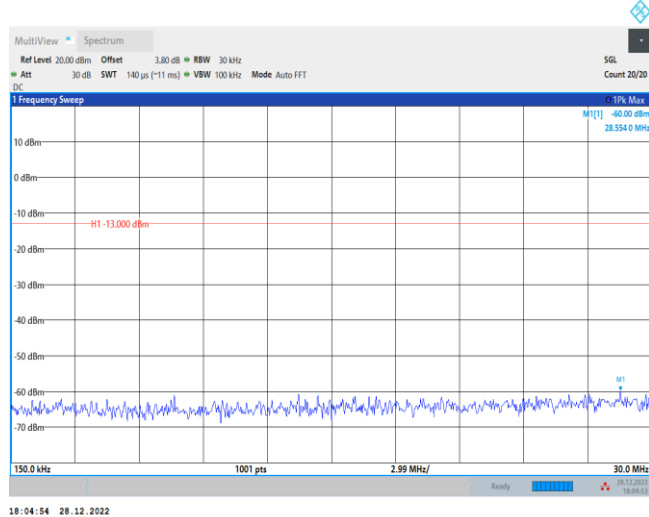
Conducted Spurious Emission

Test Graphs

Band5-4132-0.009~0.15MHz



Band5-4132-0.15~30MHz



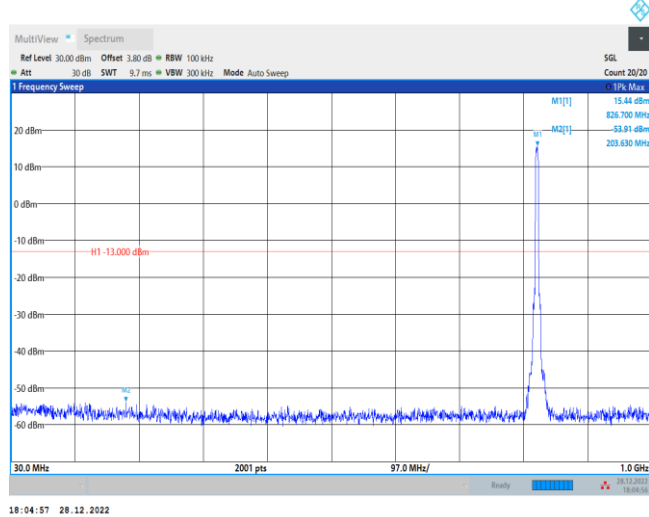
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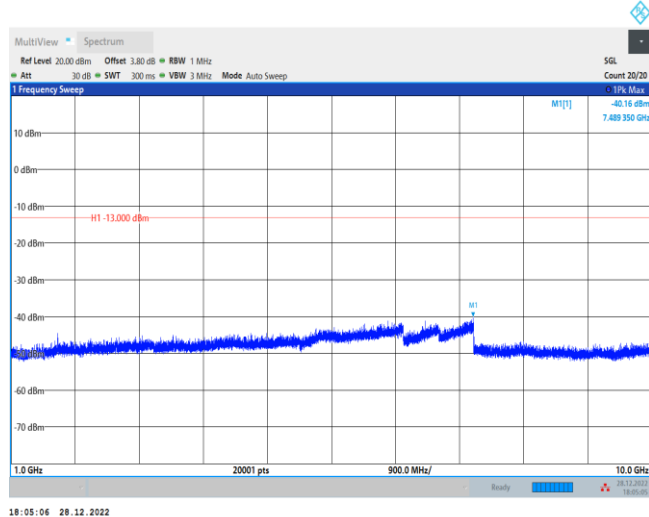
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Band5-4132-30~1000MHz



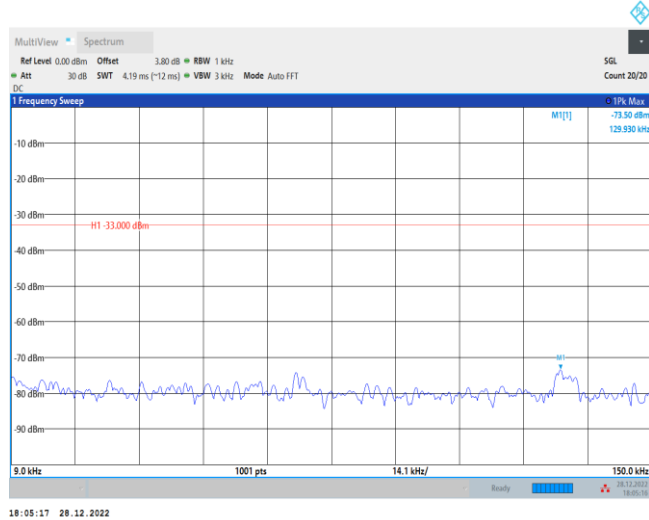
Band5-4132-1000~10000MHz



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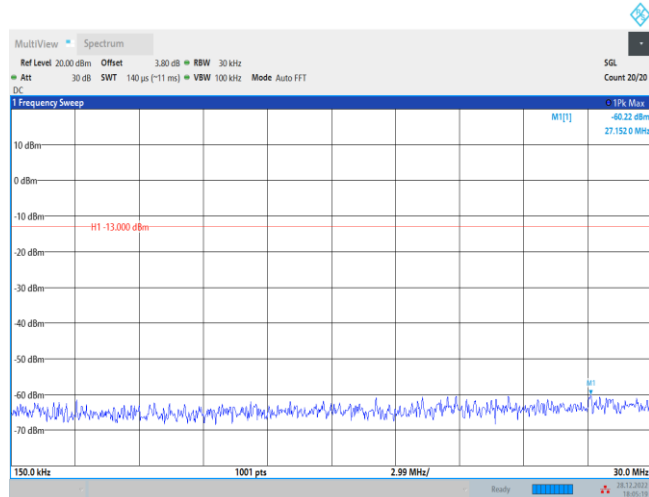
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Band5-4182-0.009~0.15MHz



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Band5-4182-0.15~30MHz



18:05:19 28.12.2022

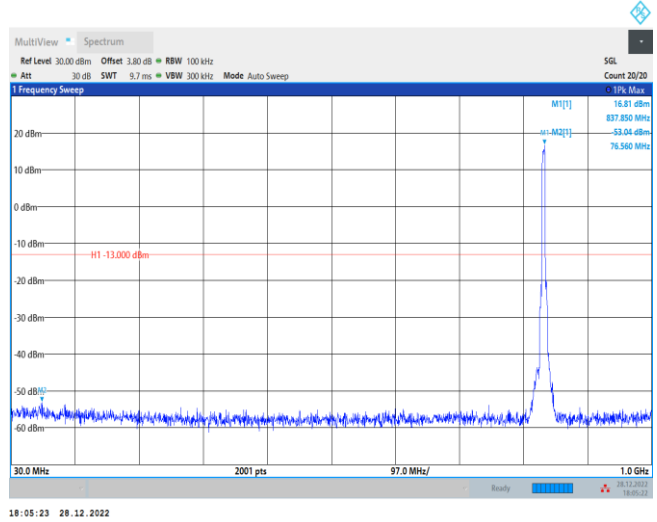


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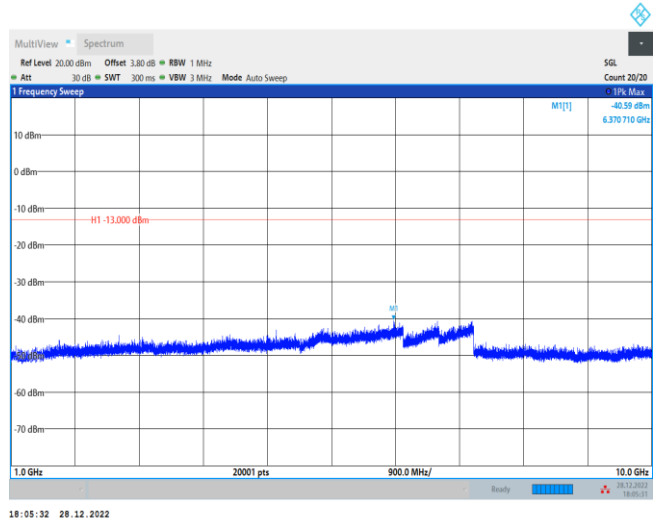
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Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz

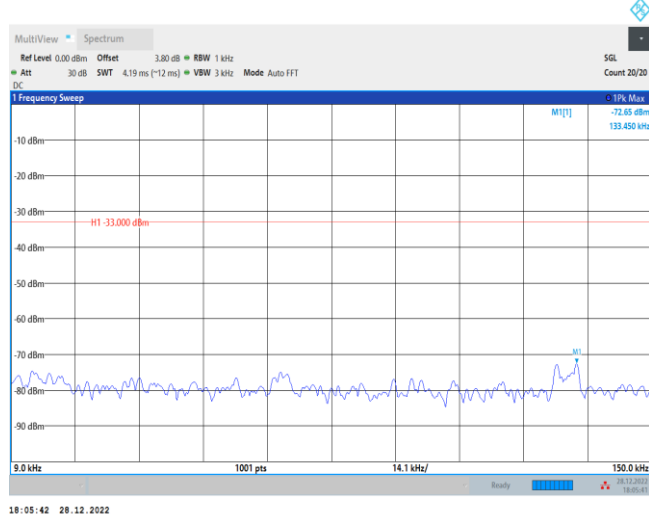


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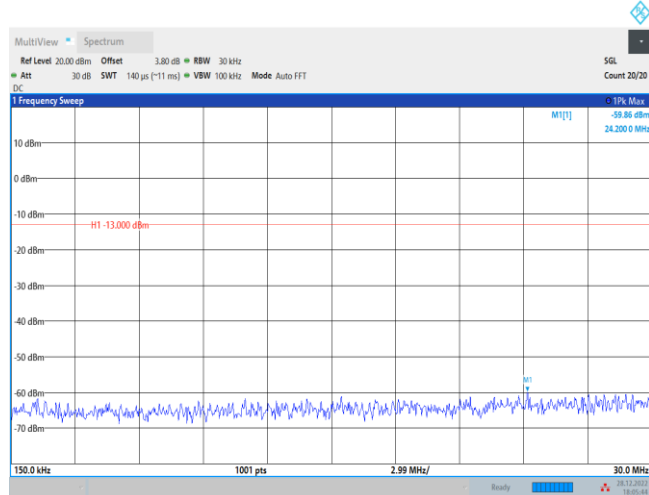
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Band5-4233-0.009~0.15MHz



18:05:42 28.12.2022

Band5-4233-0.15~30MHz



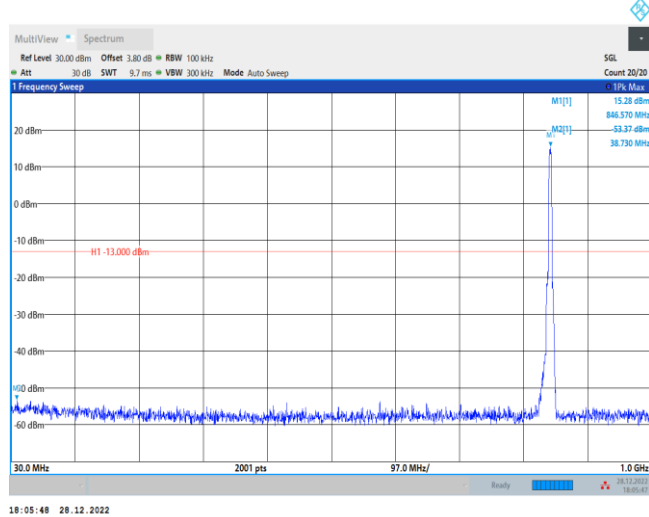
18:05:45 28.12.2022



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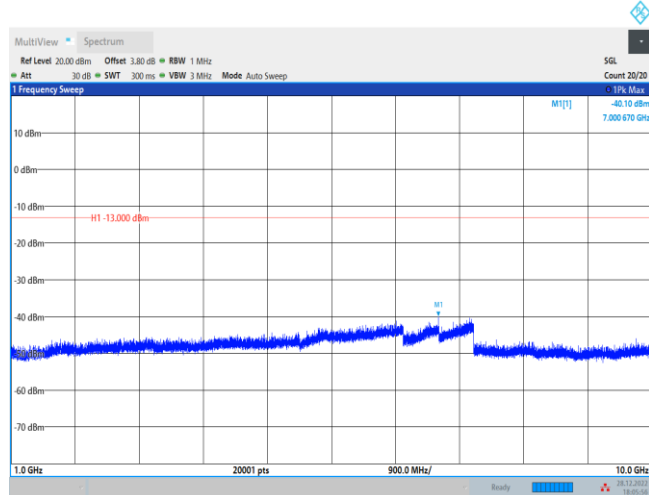
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Band5-4233-30~1000MHz



18:05:48 28.12.2022

Band5-4233-1000~10000MHz



18:05:57 28.12.2022



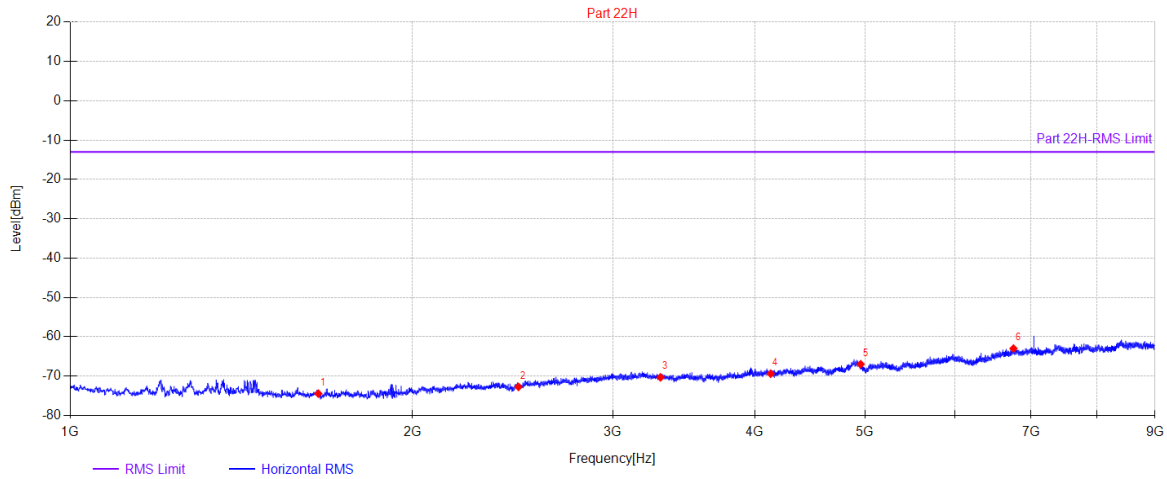
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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1

Test Channel = Low



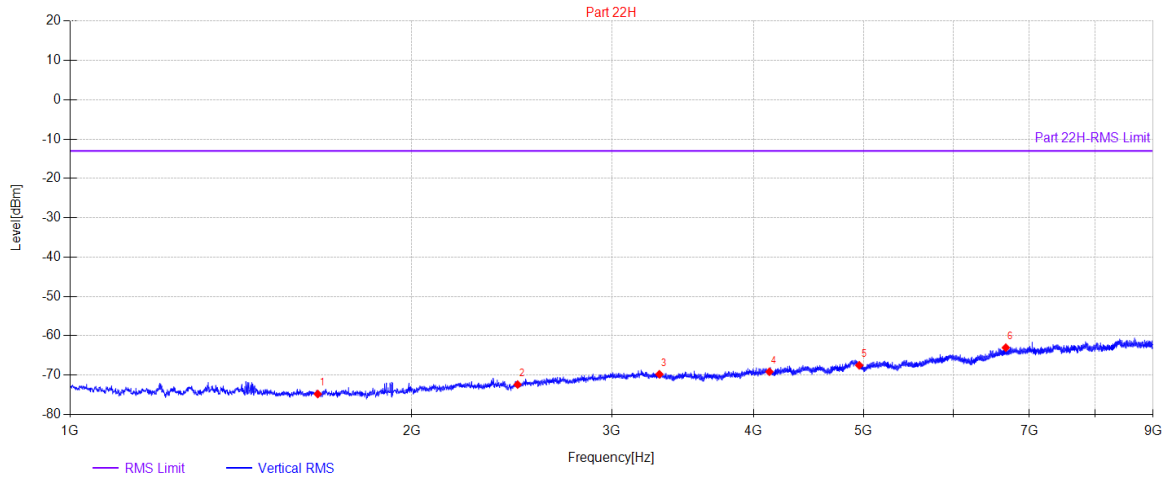
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	43.67	-48.22	25.37	-74.43	-13.00	61.43	245	77	Horizontal
2	2479.2000	42.12	-47.31	27.70	-72.74	-13.00	59.74	126	334	Horizontal
3	3305.6000	42.07	-46.67	29.55	-70.31	-13.00	57.31	236	2	Horizontal
4	4132.0000	40.80	-45.92	31.00	-69.38	-13.00	56.38	251	212	Horizontal
5	4958.4000	41.24	-45.72	32.76	-66.97	-13.00	53.97	148	334	Horizontal
6	6757.1429	40.61	-44.09	35.75	-62.99	-13.00	49.99	195	36	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	43.30	-48.22	25.37	-74.80	-13.00	61.80	254	282	Vertical
2	2479.2000	42.47	-47.31	27.70	-72.39	-13.00	59.39	148	133	Vertical
3	3305.6000	42.60	-46.67	29.55	-69.78	-13.00	56.78	159	360	Vertical
4	4132.0000	41.03	-45.92	31.00	-69.15	-13.00	56.15	168	66	Vertical
5	4958.4000	40.71	-45.72	32.76	-67.50	-13.00	54.50	174	173	Vertical
6	6674.8571	40.82	-44.17	35.59	-63.02	-13.00	50.02	199	202	Vertical



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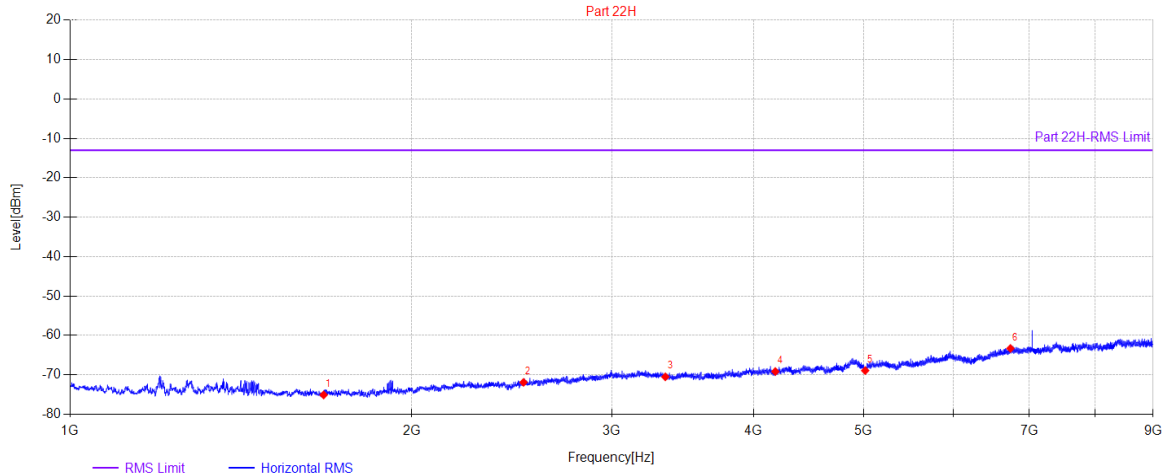
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Test Band = WCDMA Band V_ TM1

Test Channel = Mid



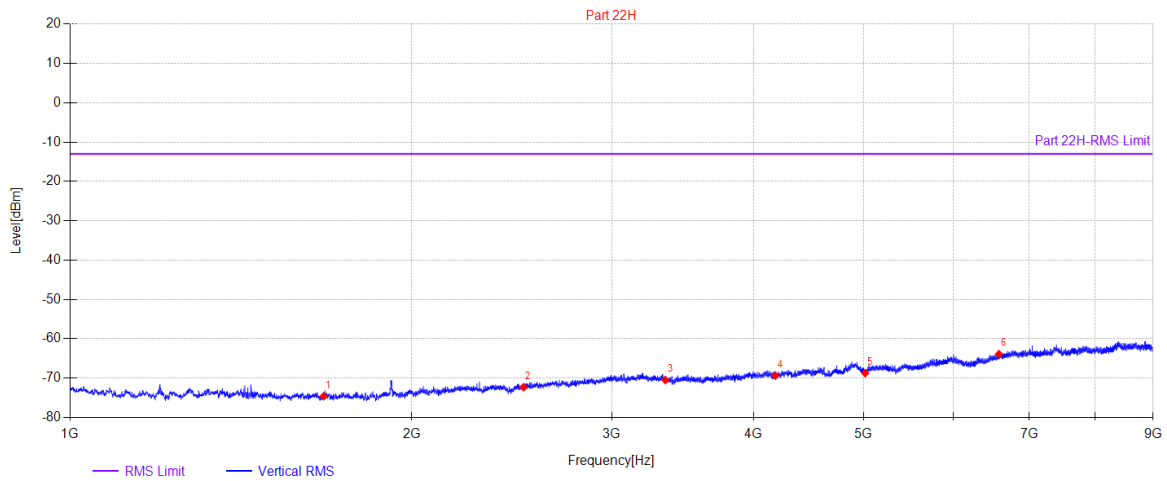
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	42.98	-48.19	25.38	-75.09	-13.00	62.09	152	19	Horizontal
2	2509.2000	42.79	-47.24	27.80	-71.90	-13.00	58.90	148	25	Horizontal
3	3345.6000	41.88	-46.62	29.50	-70.50	-13.00	57.50	165	319	Horizontal
4	4182.0000	40.99	-45.95	31.07	-69.15	-13.00	56.15	155	155	Horizontal
5	5018.4000	39.19	-45.73	32.89	-68.91	-13.00	55.91	142	261	Horizontal
6	6738.2857	40.34	-44.08	35.72	-63.29	-13.00	50.29	105	174	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.47	-48.19	25.38	-74.60	-13.00	61.60	133	40	Vertical
2	2509.2000	42.38	-47.24	27.80	-72.31	-13.00	59.31	254	134	Vertical
3	3345.6000	41.89	-46.62	29.50	-70.49	-13.00	57.49	175	336	Vertical
4	4182.0000	40.78	-45.95	31.07	-69.36	-13.00	56.36	168	242	Vertical
5	5018.4000	39.38	-45.73	32.89	-68.72	-13.00	55.72	142	230	Vertical
6	6583.4286	40.51	-44.52	35.37	-63.89	-13.00	50.89	199	160	Vertical



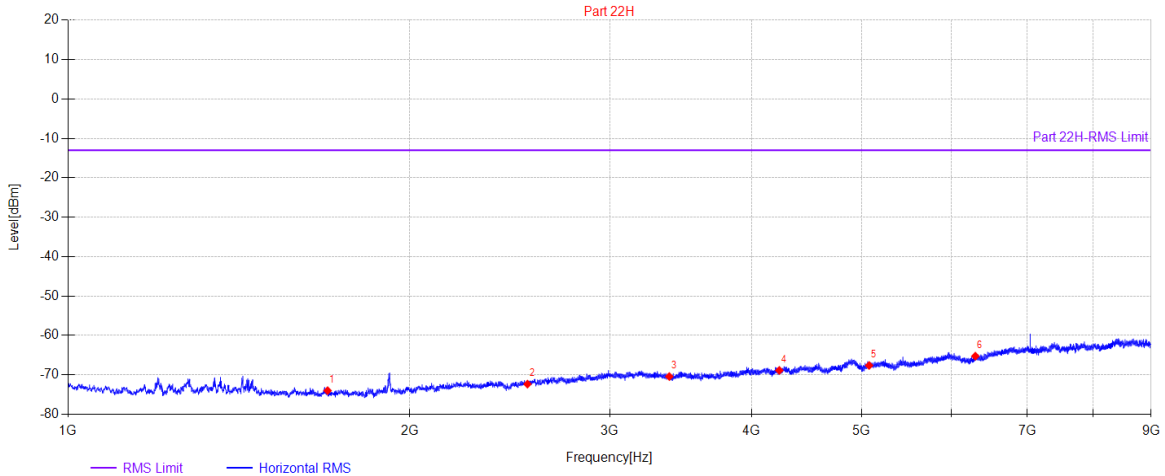
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Test Band = WCDMA Band V_ TM1

Test Channel = High



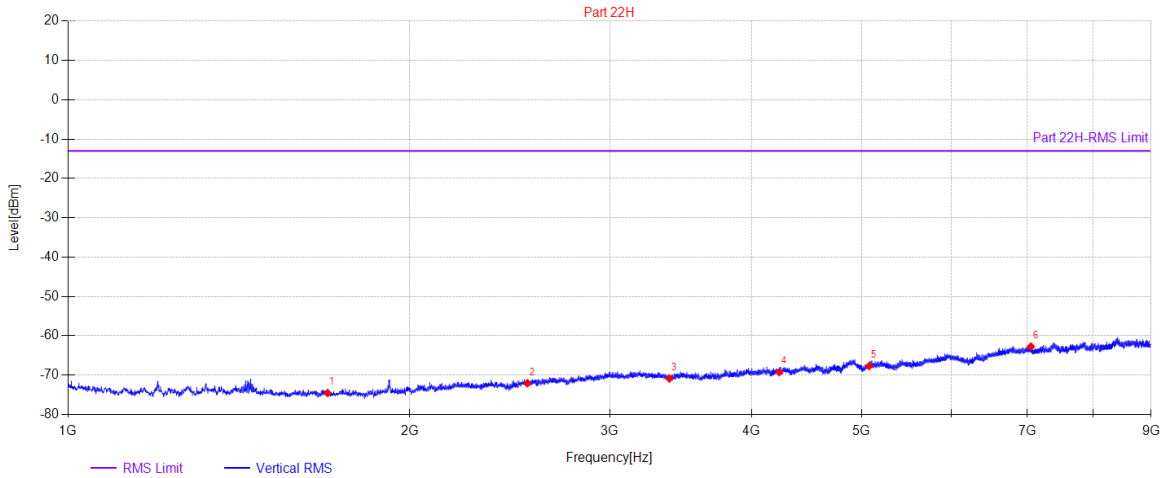
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2000	44.03	-48.17	25.39	-74.01	-13.00	61.01	254	240	Horizontal
2	2539.8000	42.15	-47.13	27.90	-72.34	-13.00	59.34	145	251	Horizontal
3	3386.4000	41.95	-46.56	29.45	-70.42	-13.00	57.42	169	133	Horizontal
4	4233.0000	41.13	-45.90	31.17	-68.86	-13.00	55.86	181	261	Horizontal
5	5079.6000	40.19	-45.47	32.92	-67.61	-13.00	54.61	174	133	Horizontal
6	6300.5714	40.21	-44.61	34.41	-65.25	-13.00	52.25	145	240	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2000	43.50	-48.17	25.39	-74.54	-13.00	61.54	148	251	Vertical
2	2539.8000	42.44	-47.13	27.90	-72.05	-13.00	59.05	152	354	Vertical
3	3386.4000	41.52	-46.56	29.45	-70.85	-13.00	57.85	291	188	Vertical
4	4233.0000	40.76	-45.90	31.17	-69.23	-13.00	56.23	174	347	Vertical
5	5079.6000	40.11	-45.47	32.92	-67.69	-13.00	54.69	152	126	Vertical
6	7053.7143	40.22	-43.92	36.22	-62.74	-13.00	49.74	211	176	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-0.47	-0.000562	±2.5	PASS
Band5	4182	VN	NT	-0.39	-0.000466	±2.5	PASS
Band5	4182	VH	NT	-0.29	-0.000347	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	-20	-0.42	-0.000502	±2.5	PASS
Band5	4182	NV	-10	-0.18	-0.000215	±2.5	PASS
Band5	4182	NV	0	-0.24	-0.000287	±2.5	PASS
Band5	4182	NV	10	-0.18	-0.000215	±2.5	PASS
Band5	4182	NV	20	-0.03	-0.000036	±2.5	PASS
Band5	4182	NV	30	-0.32	-0.000383	±2.5	PASS
Band5	4182	NV	40	-0.06	-0.000072	±2.5	PASS
Band5	4182	NV	50	-0.23	-0.000275	±2.5	PASS

---End of Attachment---



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