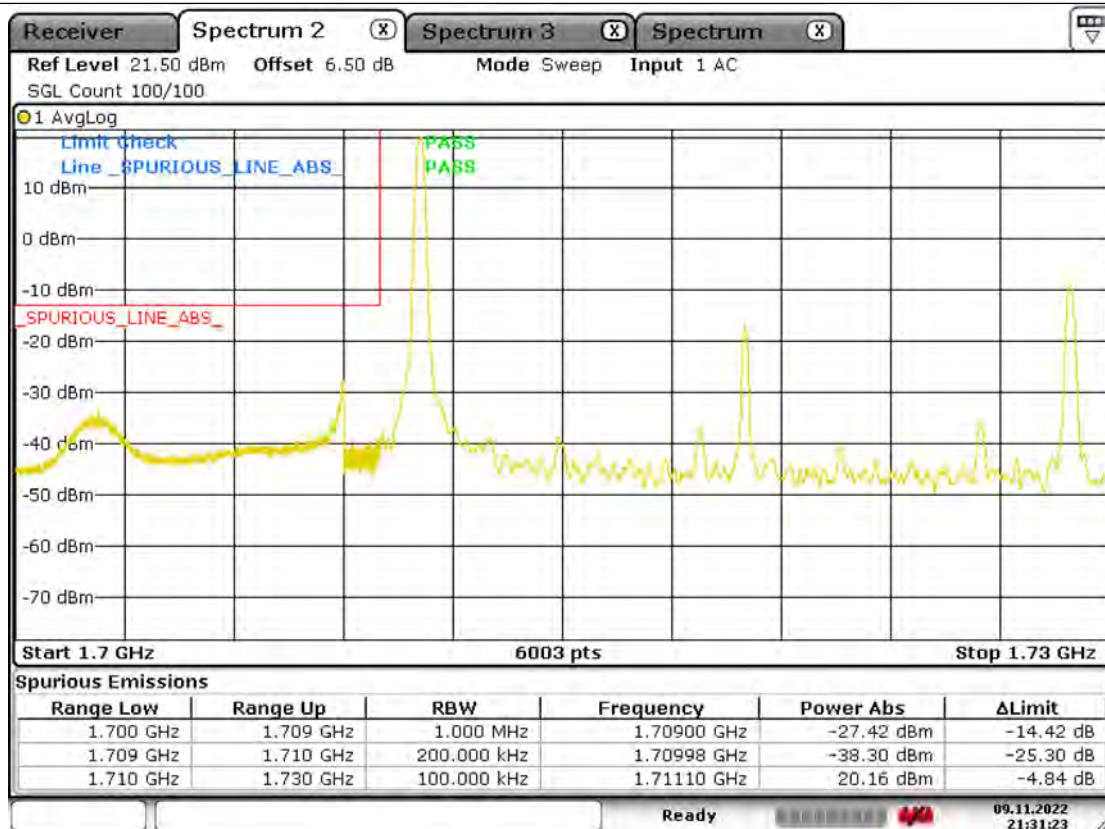




BUREAU
VERITAS

Test Report No.: PSU-NQN2204290110RF03



Date: 9.NOV.2022 21:31:24

Band66-20MHz-16QAM-132072-27RB#0



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VERITAS

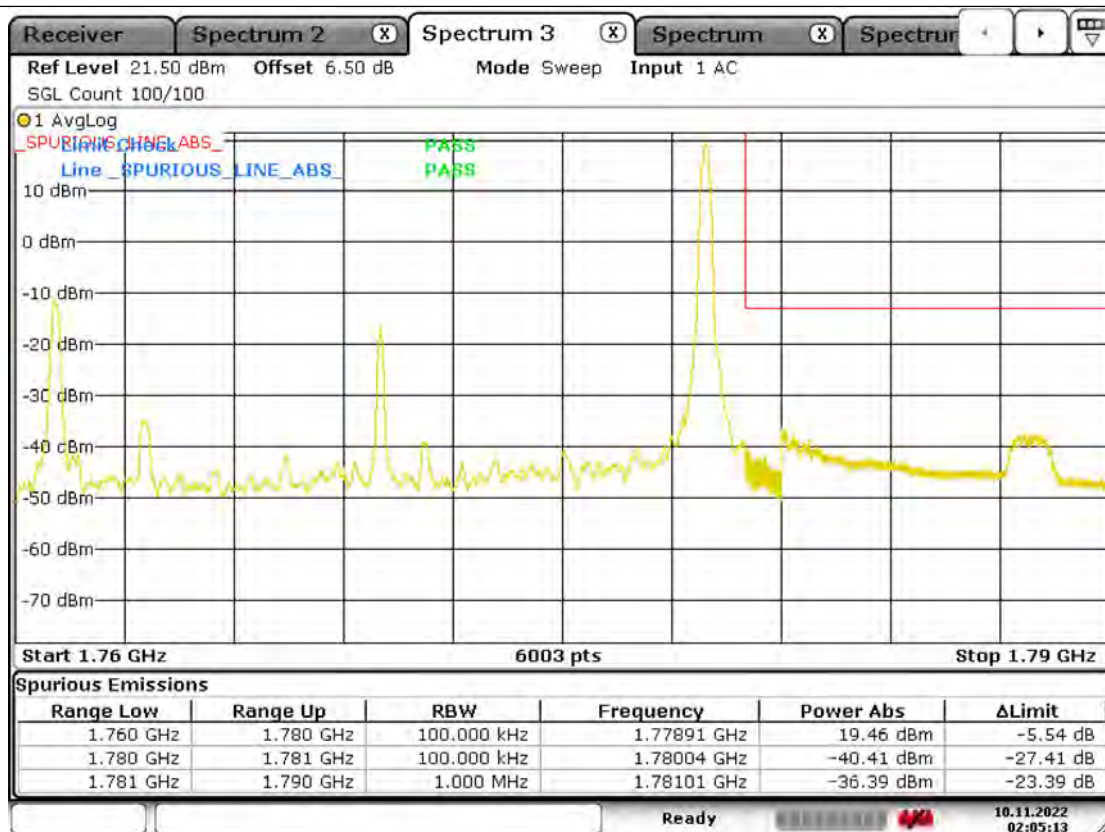
Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03



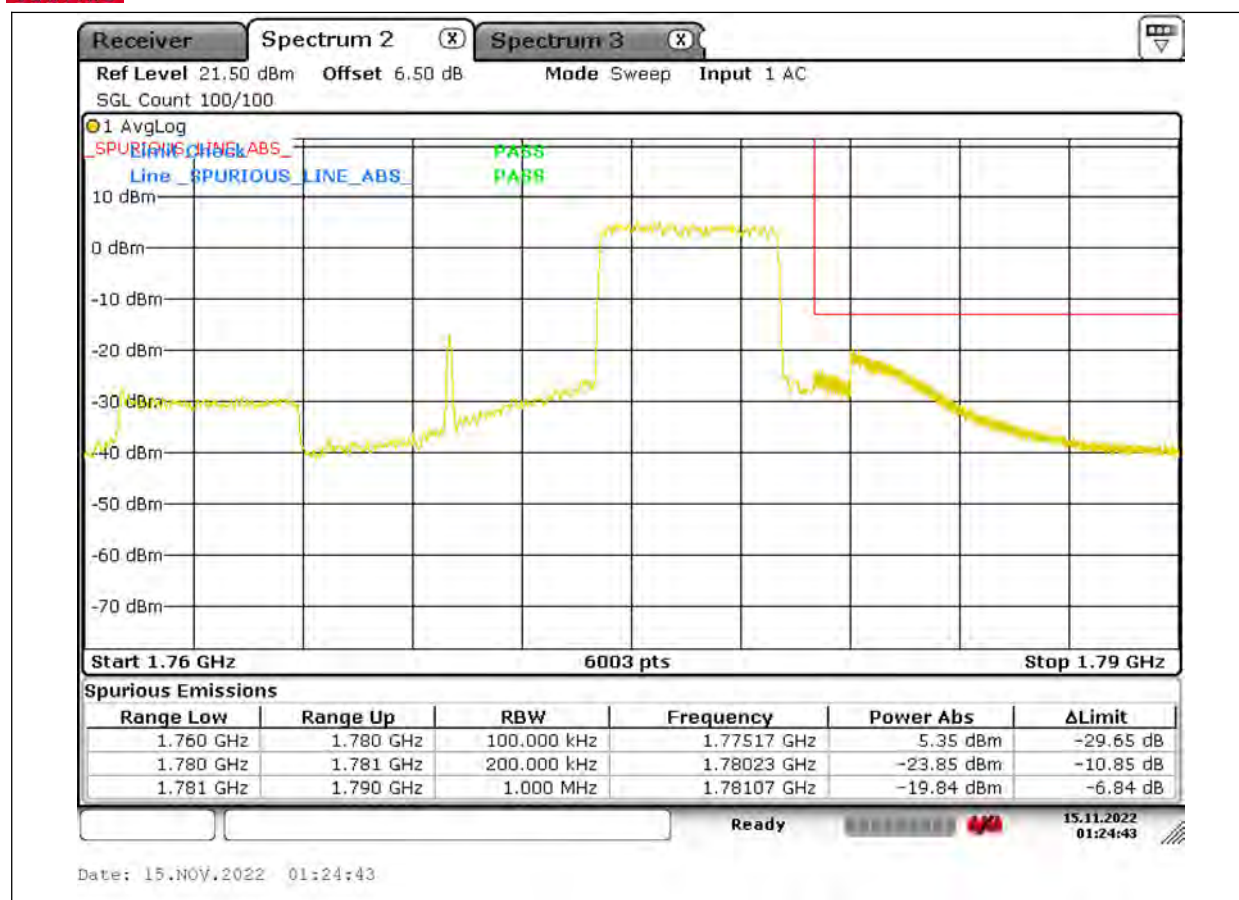
Date: 10.NOV.2022 02:05:13

Band66-20MHz-16QAM-132572-27RB#73



BUREAU
VERITAS

Test Report No.: PSU-NQN2204290110RF03



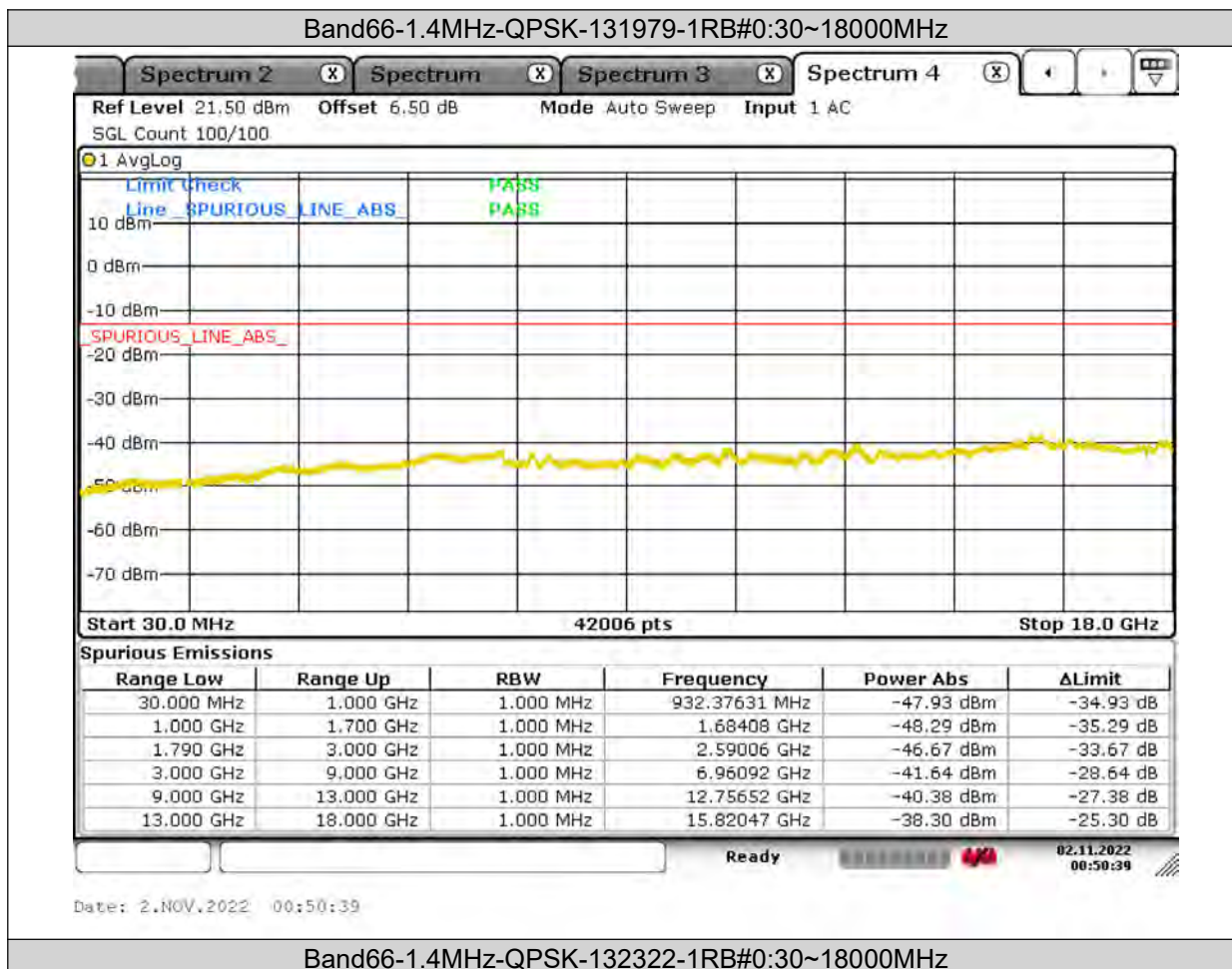
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	Range1:30~1000MHz	-47.93	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	Range2:1000~18000MHz	-38.3	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-48.04	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.38	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	Range1:30~1000MHz	-48.18	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	Range2:1000~18000MHz	-38.41	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	Range1:30~1000MHz	-48.15	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	Range2:1000~18000MHz	-38.27	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-48.18	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.23	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	Range1:30~1000MHz	-47.79	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	Range2:1000~18000MHz	-38.29	PASS
Band66	3MHz	QPSK	131987	1RB#0	Range1:30~1000MHz	-48.02	PASS
Band66	3MHz	QPSK	131987	1RB#0	Range2:1000~18000MHz	-38.53	PASS
Band66	3MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-48.22	PASS
Band66	3MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.31	PASS
Band66	3MHz	QPSK	132657	1RB#0	Range1:30~1000MHz	-47.61	PASS
Band66	3MHz	QPSK	132657	1RB#0	Range2:1000~18000MHz	-38.34	PASS
Band66	3MHz	16QAM	131987	1RB#0	Range1:30~1000MHz	-48.13	PASS
Band66	3MHz	16QAM	131987	1RB#0	Range2:1000~18000MHz	-38.42	PASS
Band66	3MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-48.17	PASS
Band66	3MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.26	PASS
Band66	3MHz	16QAM	132657	1RB#0	Range1:30~1000MHz	-48.23	PASS
Band66	3MHz	16QAM	132657	1RB#0	Range2:1000~18000MHz	-38.43	PASS
Band66	5MHz	QPSK	131997	1RB#0	Range1:30~1000MHz	-48.12	PASS
Band66	5MHz	QPSK	131997	1RB#0	Range2:1000~18000MHz	-38.44	PASS
Band66	5MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-48.1	PASS
Band66	5MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.32	PASS
Band66	5MHz	QPSK	132647	1RB#0	Range1:30~1000MHz	-48.15	PASS
Band66	5MHz	QPSK	132647	1RB#0	Range2:1000~18000MHz	-38.35	PASS
Band66	5MHz	16QAM	131997	1RB#0	Range1:30~1000MHz	-48.02	PASS
Band66	5MHz	16QAM	131997	1RB#0	Range2:1000~18000MHz	-38.34	PASS
Band66	5MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-48.22	PASS
Band66	5MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.34	PASS
Band66	5MHz	16QAM	132647	1RB#0	Range1:30~1000MHz	-48.25	PASS
Band66	5MHz	16QAM	132647	1RB#0	Range2:1000~18000MHz	-38.42	PASS
Band66	10MHz	QPSK	132022	1RB#0	Range1:30~1000MHz	-48.08	PASS
Band66	10MHz	QPSK	132022	1RB#0	Range2:1000~18000MHz	-38.24	PASS
Band66	10MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-48.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.30	PASS
Band66	10MHz	QPSK	132622	1RB#0	Range1:30~1000MHz	-48.05	PASS
Band66	10MHz	QPSK	132622	1RB#0	Range2:1000~18000MHz	-38.13	PASS
Band66	10MHz	16QAM	132022	1RB#0	Range1:30~1000MHz	-48.14	PASS
Band66	10MHz	16QAM	132022	1RB#0	Range2:1000~18000MHz	-38.22	PASS
Band66	10MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-48.03	PASS

Band66	10MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.25	PASS
Band66	10MHz	16QAM	132622	1RB#0	Range1:30~1000MHz	-48.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	Range2:1000~20000MHz	-38.06	PASS
Band66	15MHz	QPSK	132047	1RB#0	Range1:30~1000MHz	-47.80	PASS
Band66	15MHz	QPSK	132047	1RB#0	Range2:1000~18000MHz	-35.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-47.73	PASS
Band66	15MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.20	PASS
Band66	15MHz	QPSK	132597	1RB#0	Range1:30~1000MHz	-48.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	Range2:1000~18000MHz	-38.33	PASS
Band66	15MHz	16QAM	132047	1RB#0	Range1:30~1000MHz	-47.91	PASS
Band66	15MHz	16QAM	132047	1RB#0	Range2:1000~18000MHz	-33.93	PASS
Band66	15MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-47.80	PASS
Band66	15MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.18	PASS
Band66	15MHz	16QAM	132597	1RB#0	Range1:30~1000MHz	-47.93	PASS
Band66	15MHz	16QAM	132597	1RB#0	Range2:1000~18000MHz	-38.01	PASS
Band66	20MHz	QPSK	132072	1RB#0	Range1:30~1000MHz	-47.95	PASS
Band66	20MHz	QPSK	132072	1RB#0	Range2:1000~18000MHz	-34.65	PASS
Band66	20MHz	QPSK	132322	1RB#0	Range1:30~1000MHz	-48.09	PASS
Band66	20MHz	QPSK	132322	1RB#0	Range2:1000~18000MHz	-38.06	PASS
Band66	20MHz	QPSK	132572	1RB#0	Range1:30~1000MHz	-47.95	PASS
Band66	20MHz	QPSK	132572	1RB#0	Range2:1000~18000MHz	-38.23	PASS
Band66	20MHz	16QAM	132072	1RB#0	Range1:30~1000MHz	-48.21	PASS
Band66	20MHz	16QAM	132072	1RB#0	Range2:1000~18000MHz	-34.22	PASS
Band66	20MHz	16QAM	132322	1RB#0	Range1:30~1000MHz	-47.87	PASS
Band66	20MHz	16QAM	132322	1RB#0	Range2:1000~18000MHz	-38.35	PASS
Band66	20MHz	16QAM	132572	1RB#0	Range1:30~1000MHz	-48.05	PASS
Band66	20MHz	16QAM	132572	1RB#0	Range2:1000~18000MHz	-38.32	PASS

Test Graphs





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VERITAS

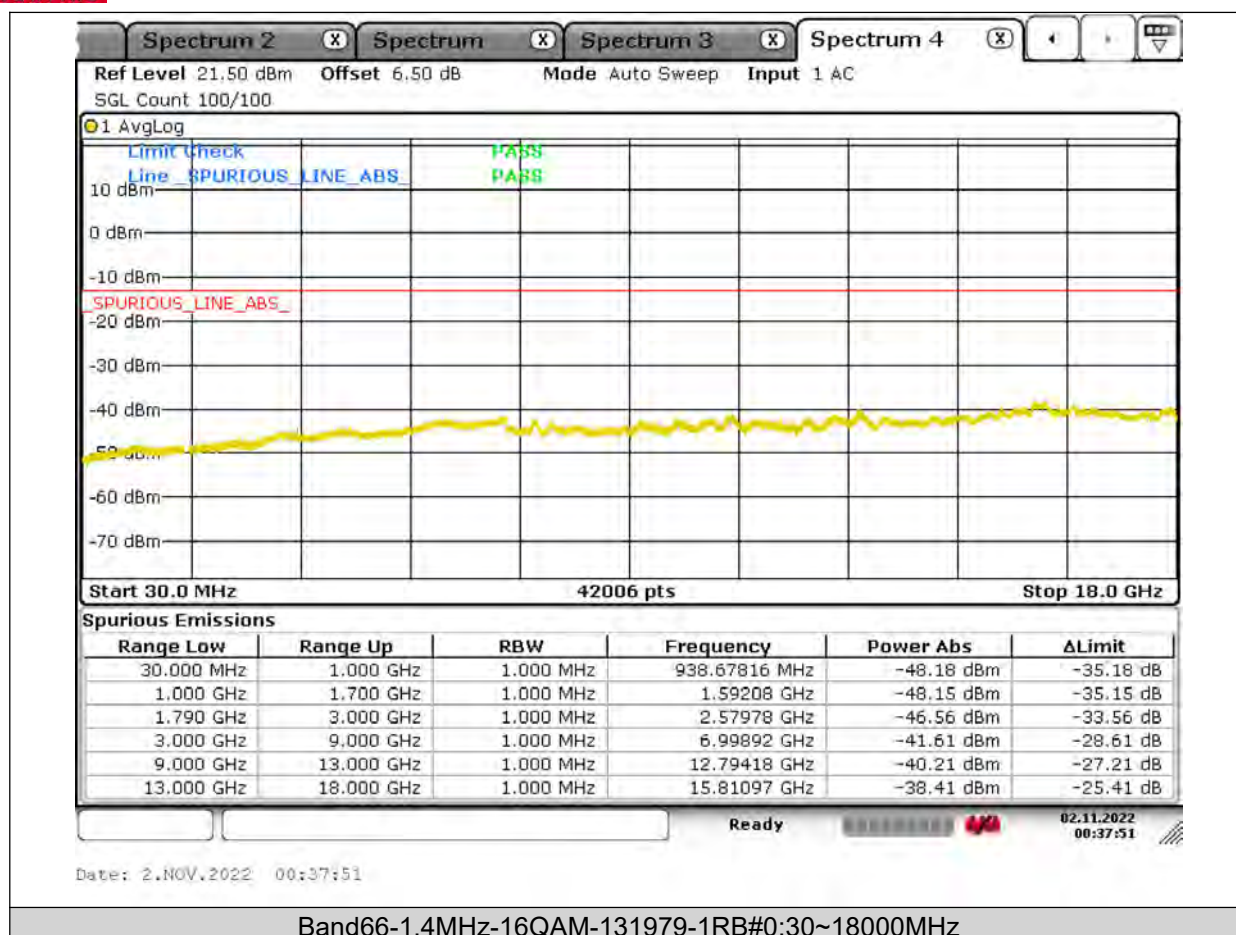
Test Report No.: PSU-NQN2204290110RF03





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Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03

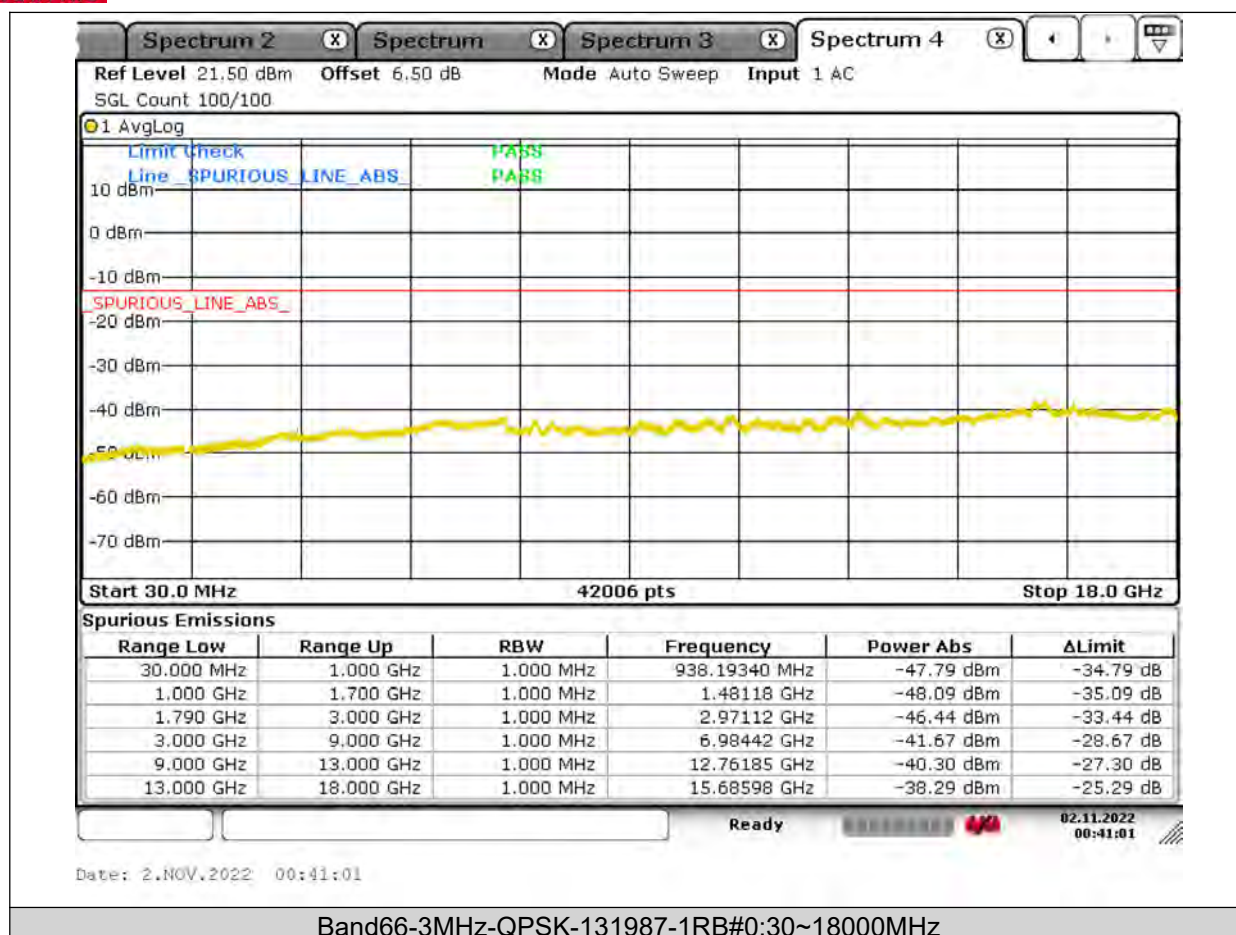




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VERITAS

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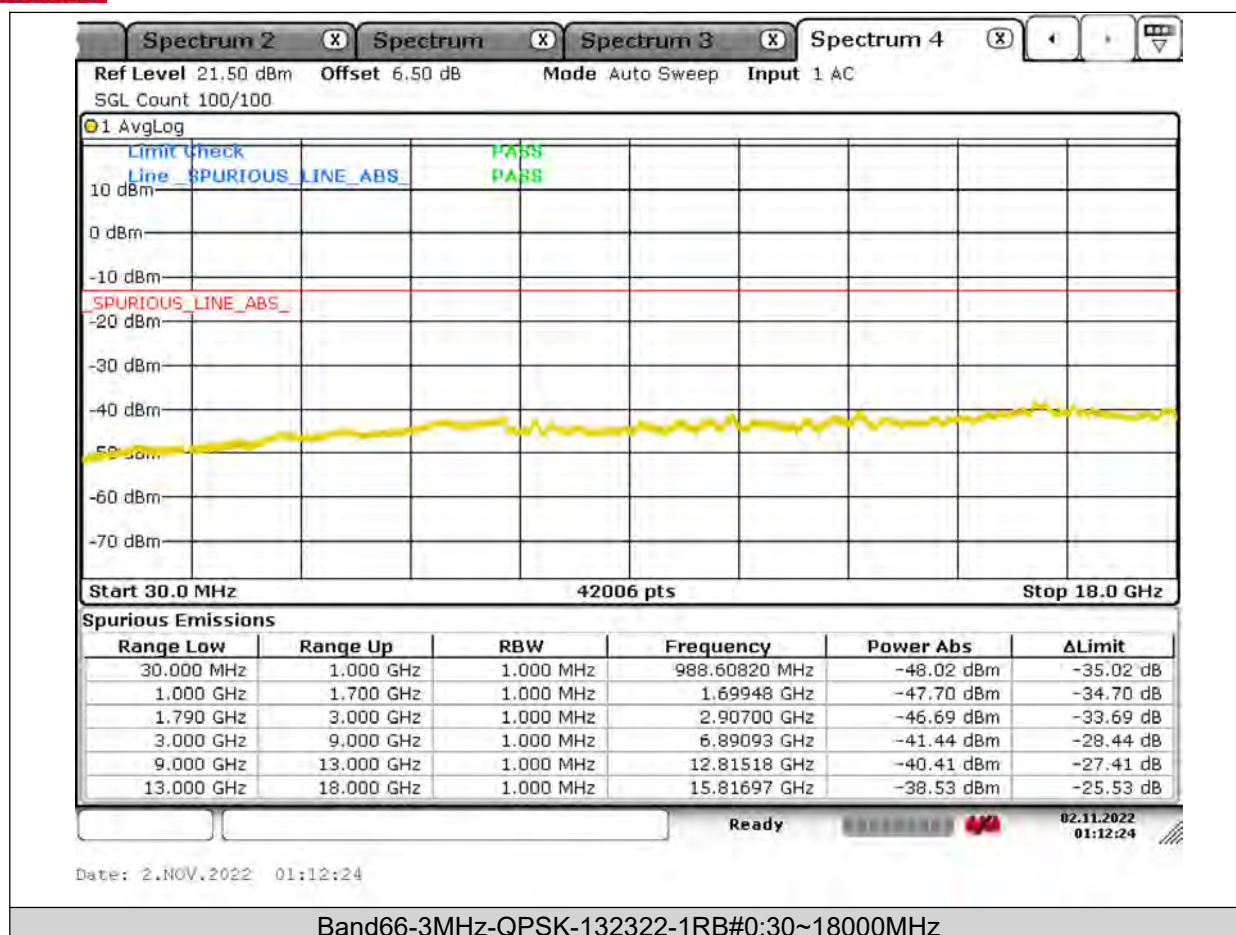






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VERITAS

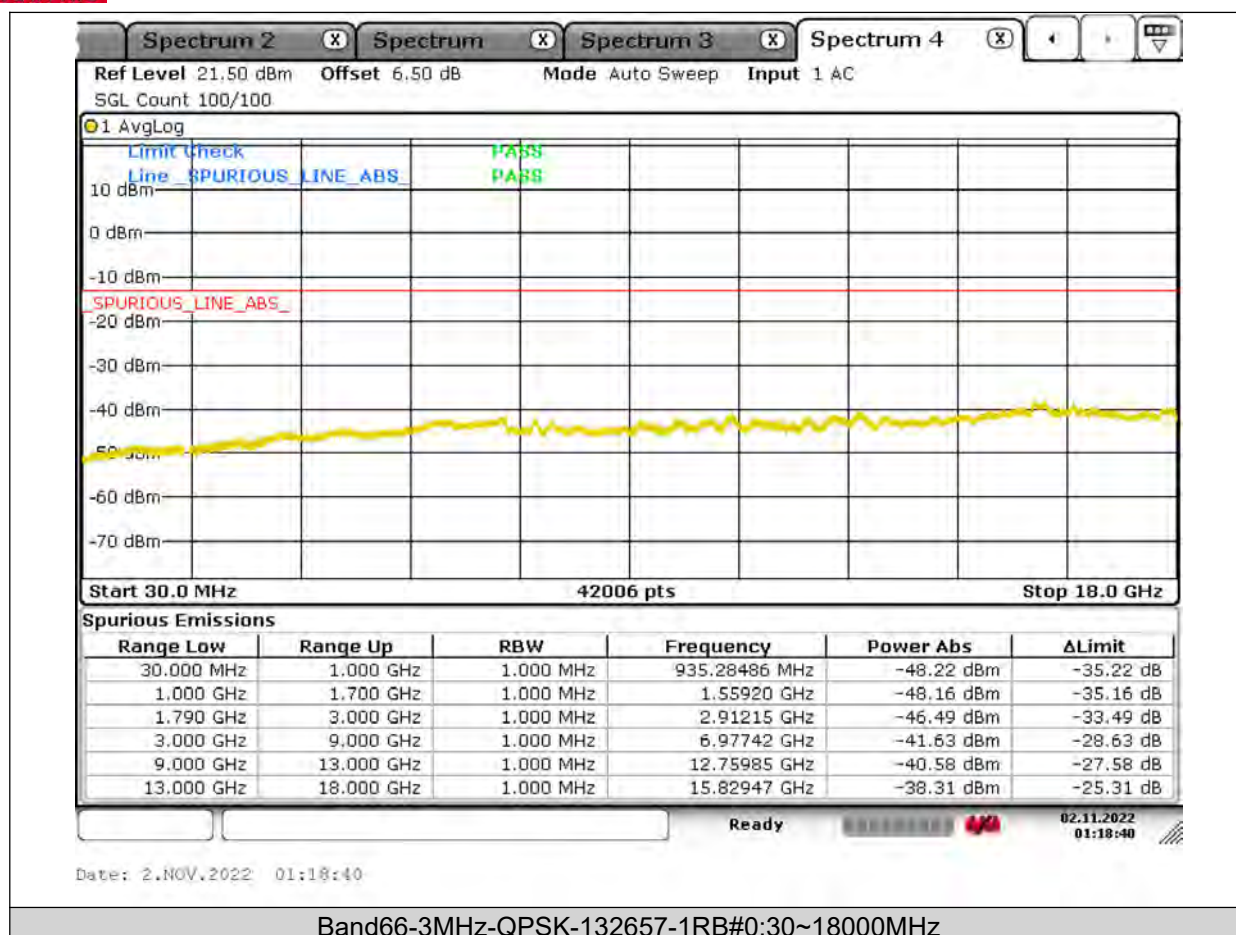
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VERITAS

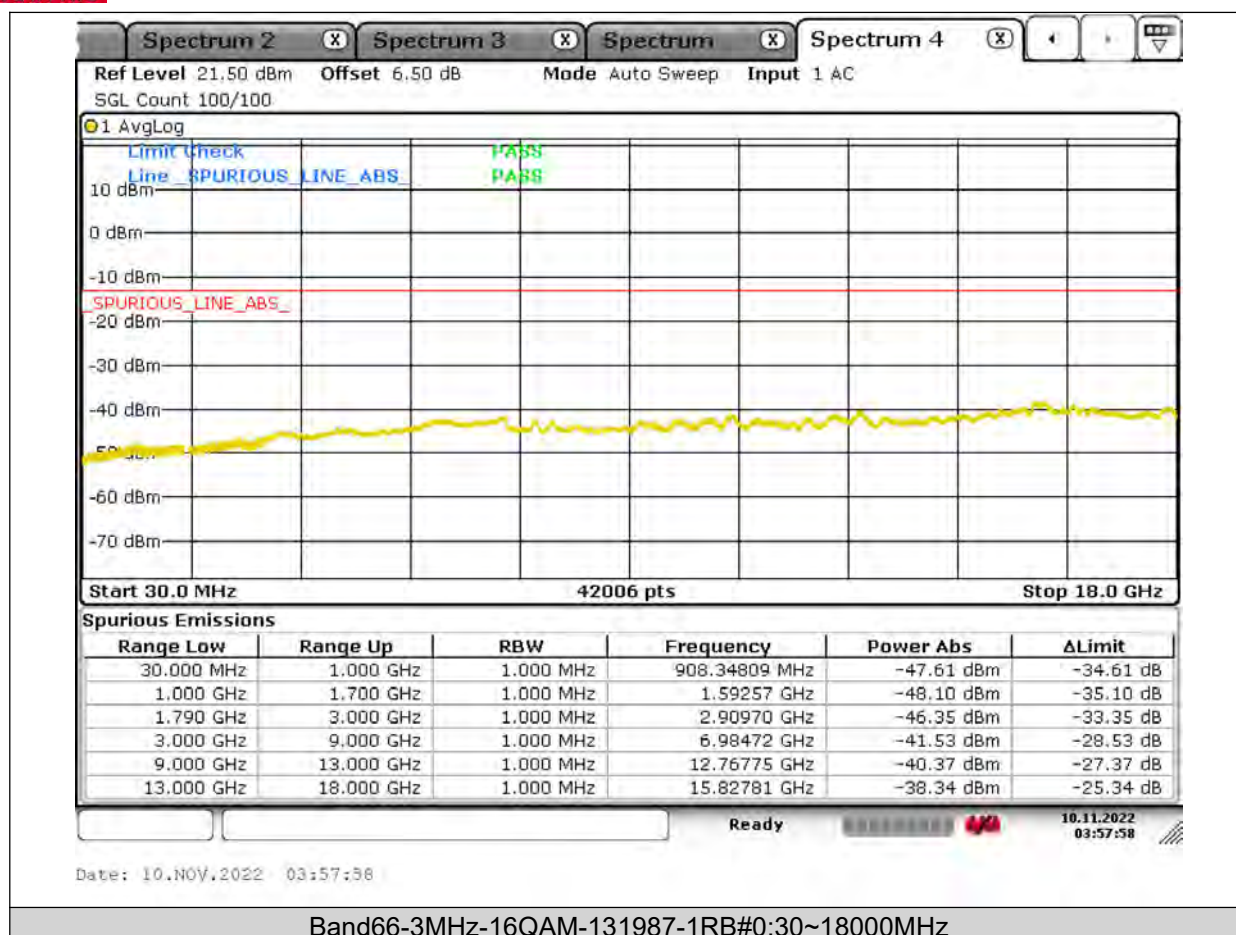
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VERITAS

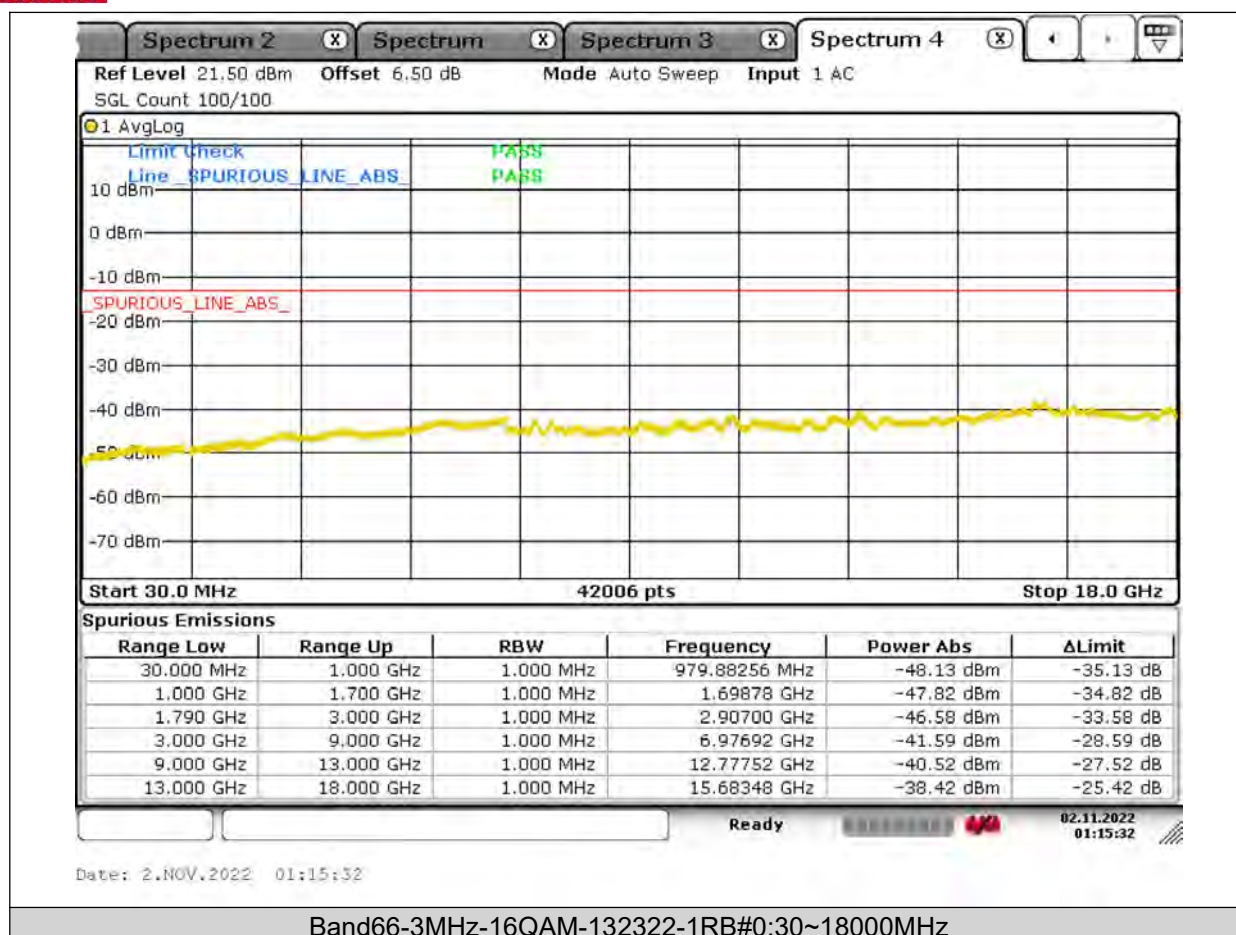
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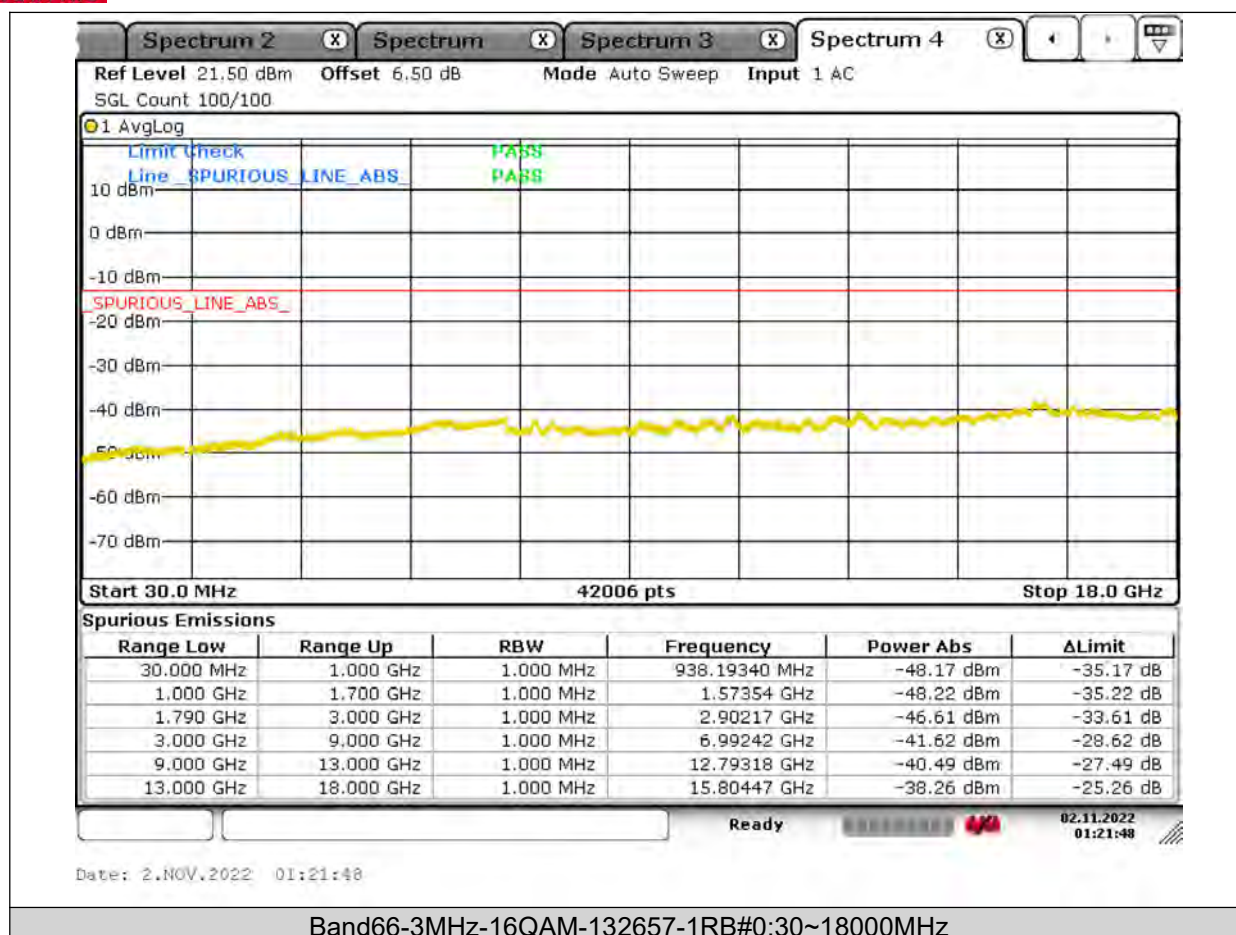


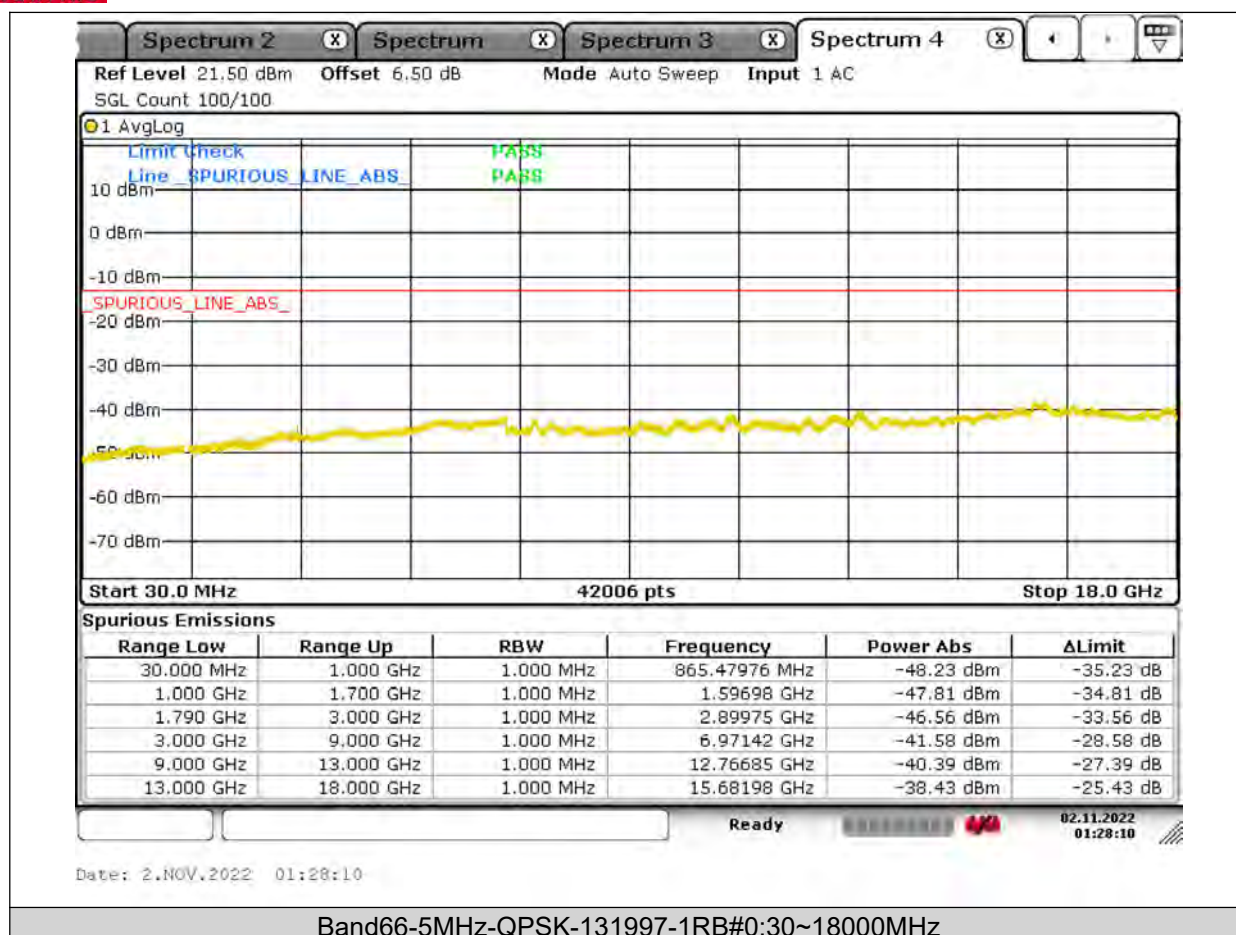


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VERITAS

Test Report No.: PSU-NQN2204290110RF03



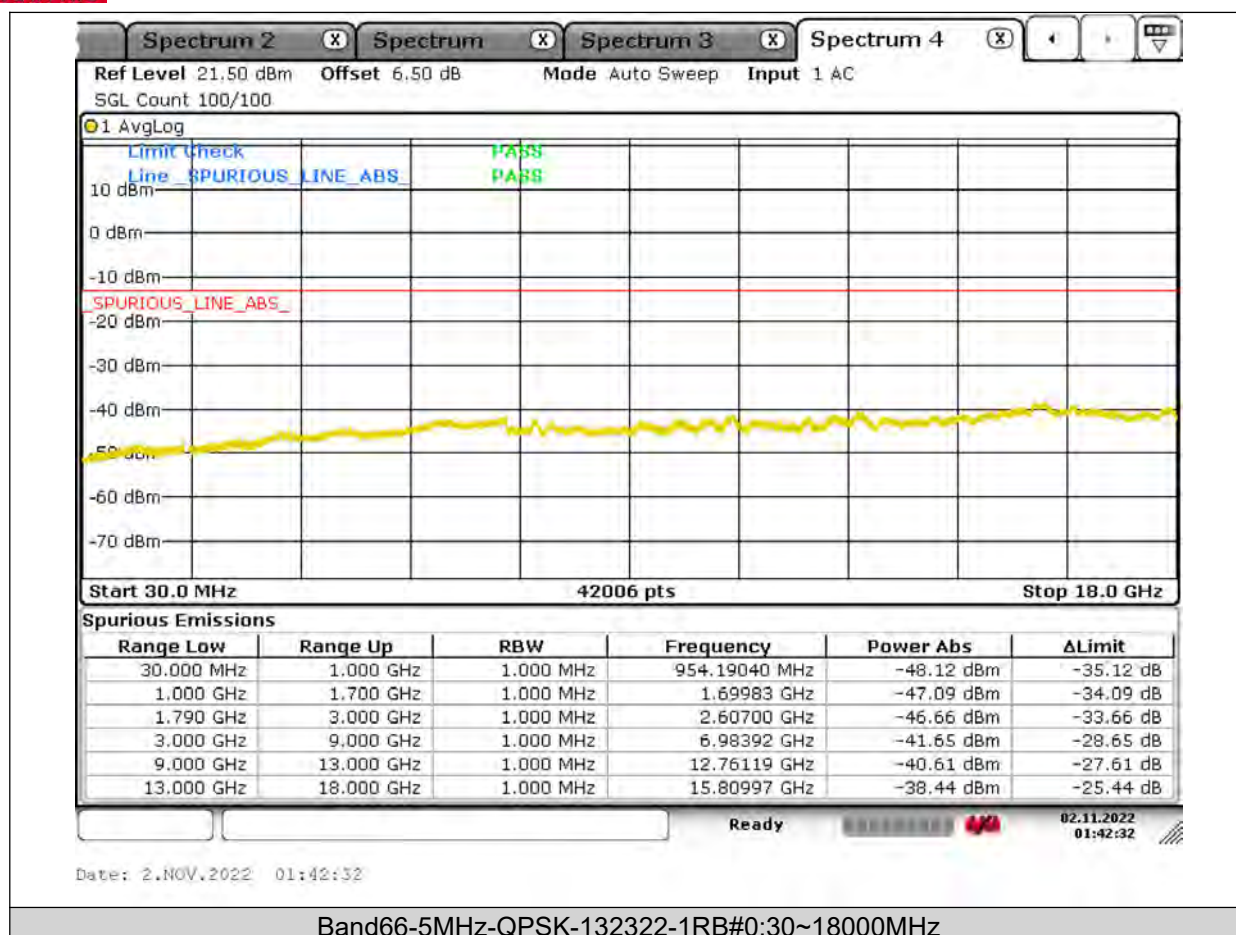






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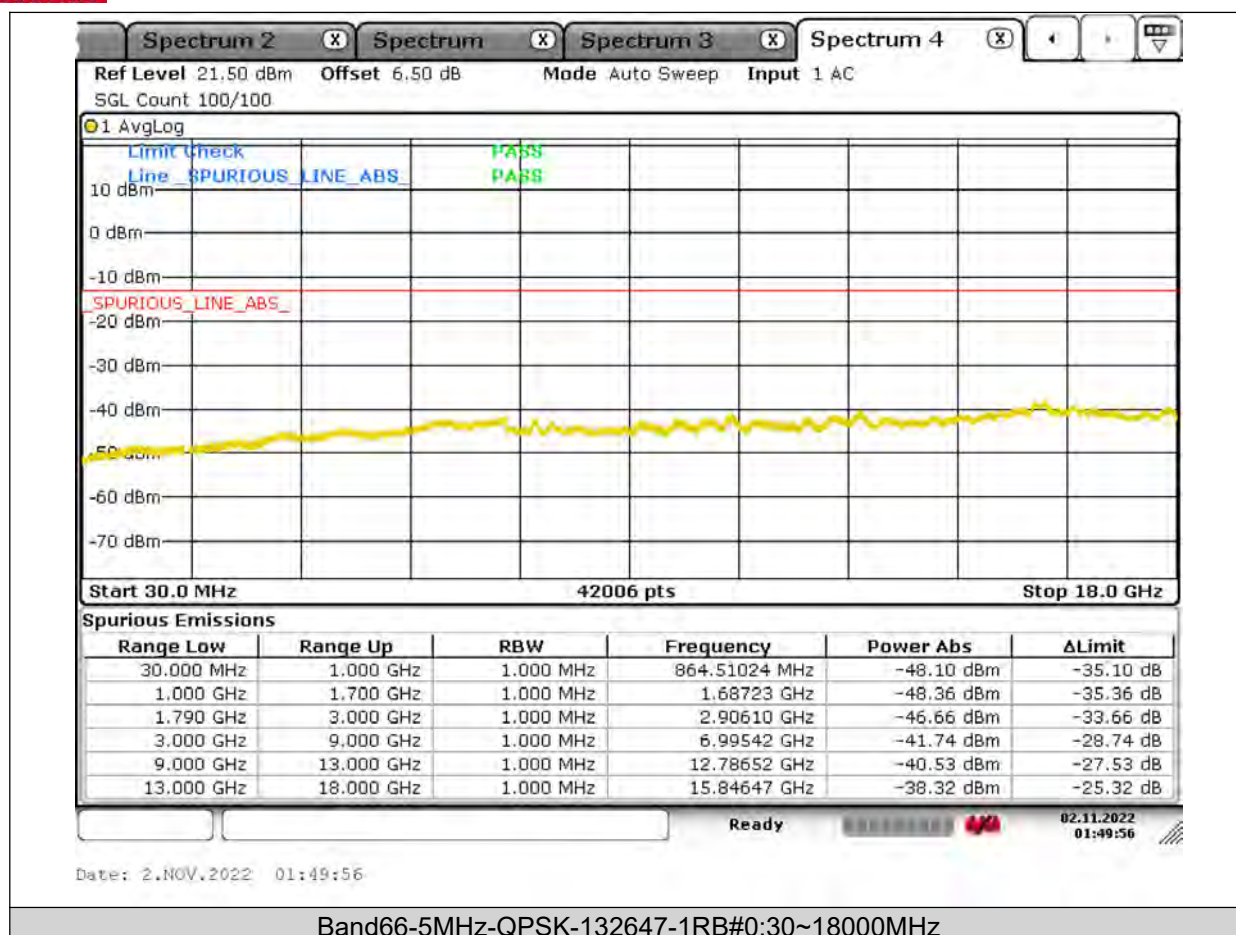
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VERITAS

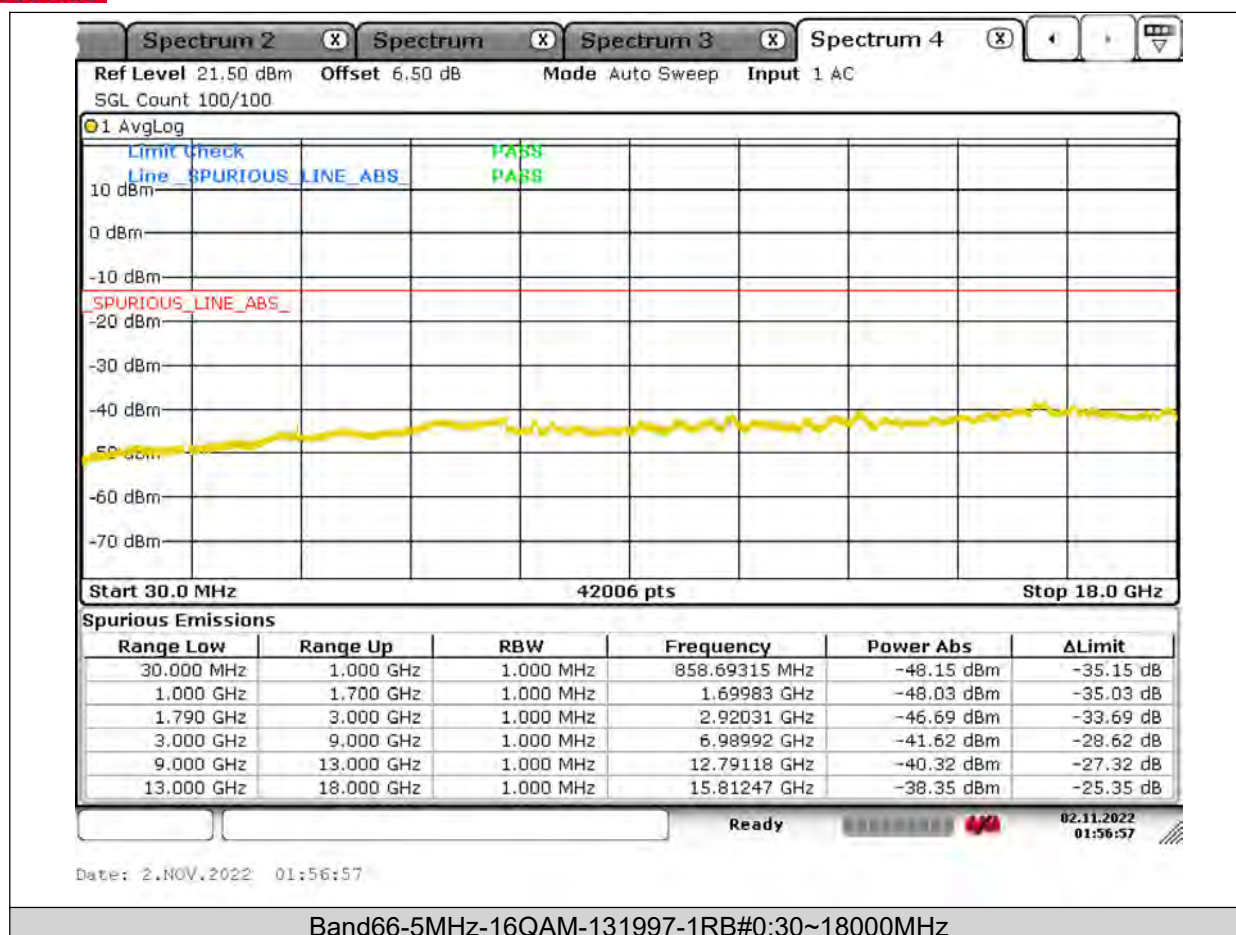
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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

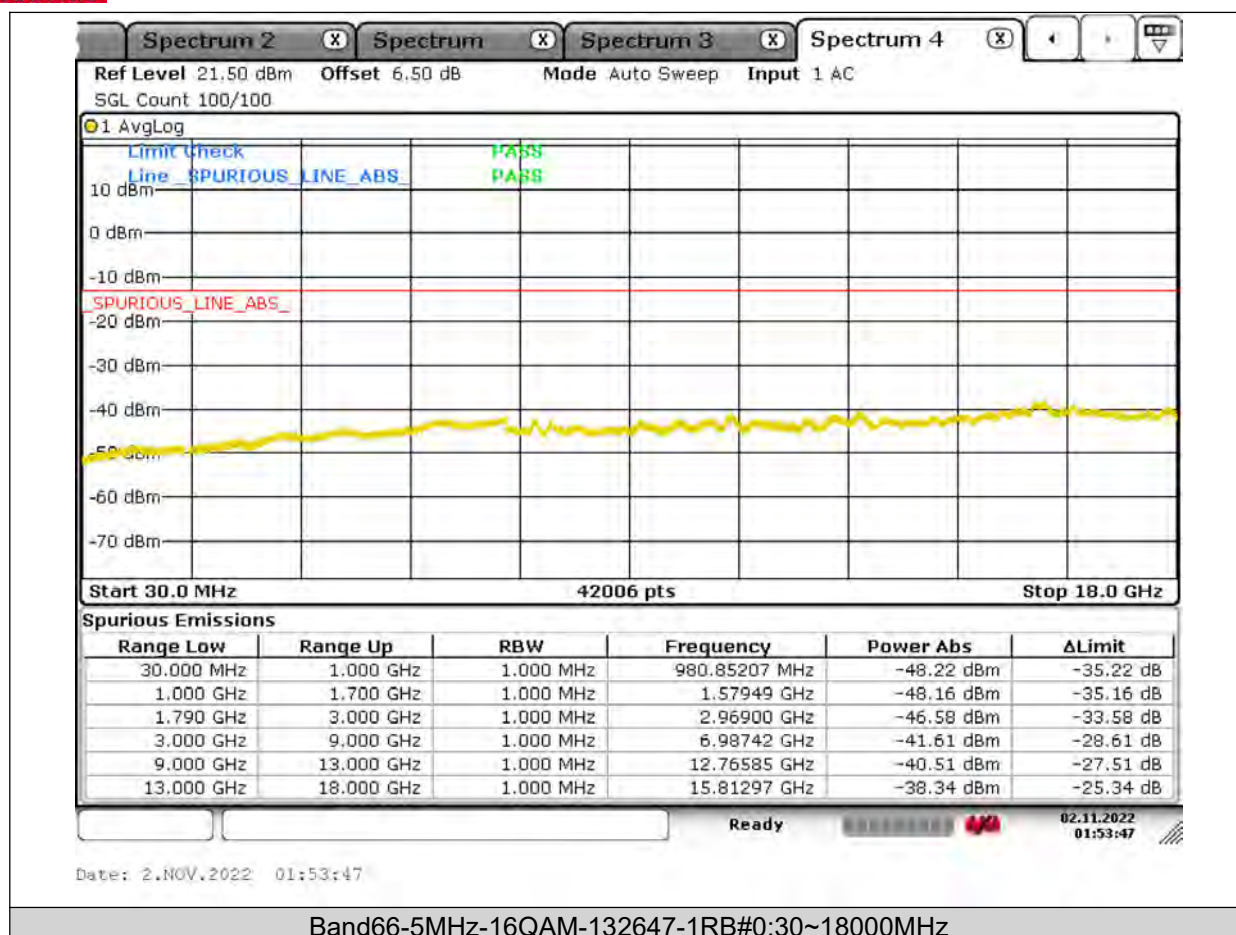
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Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

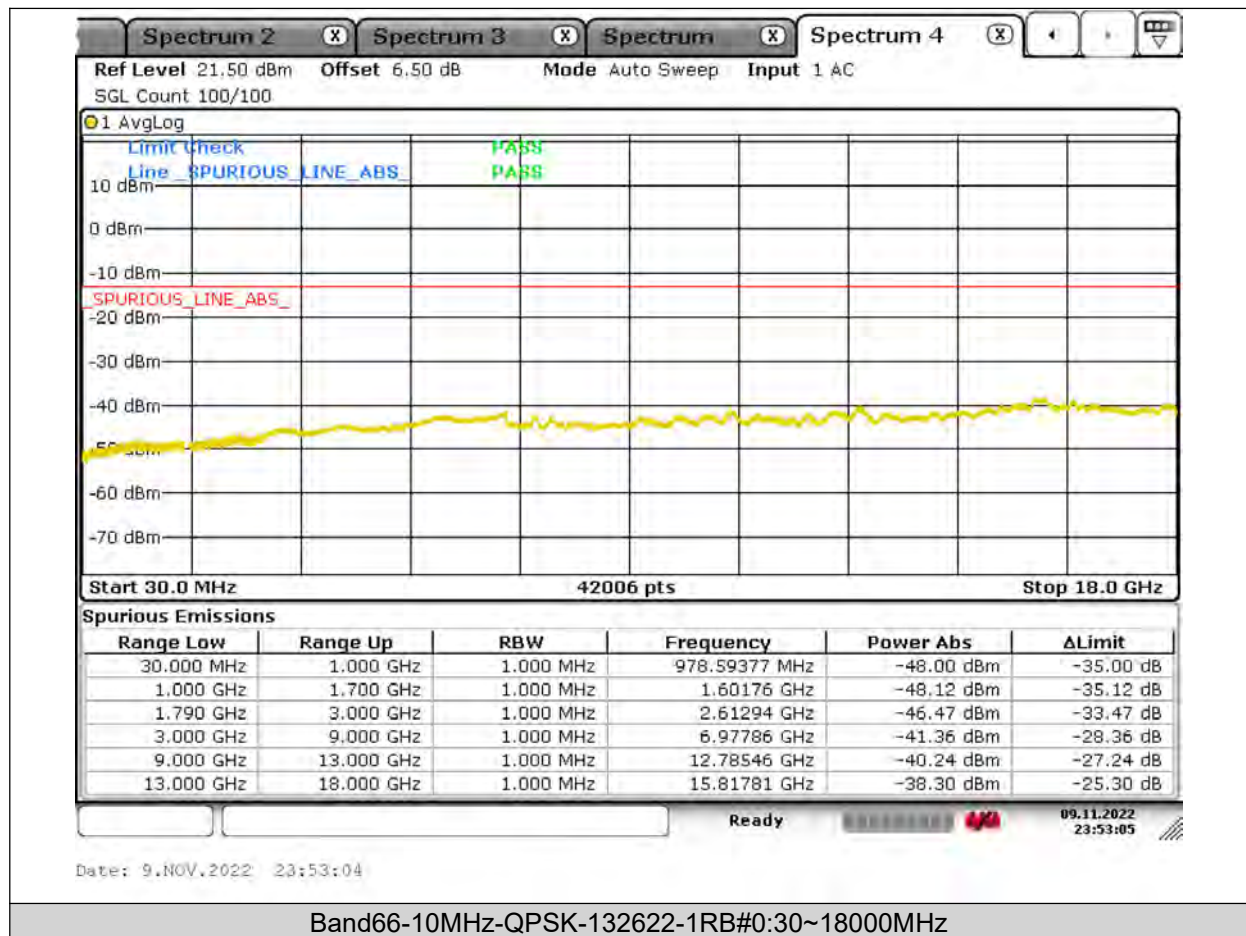
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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

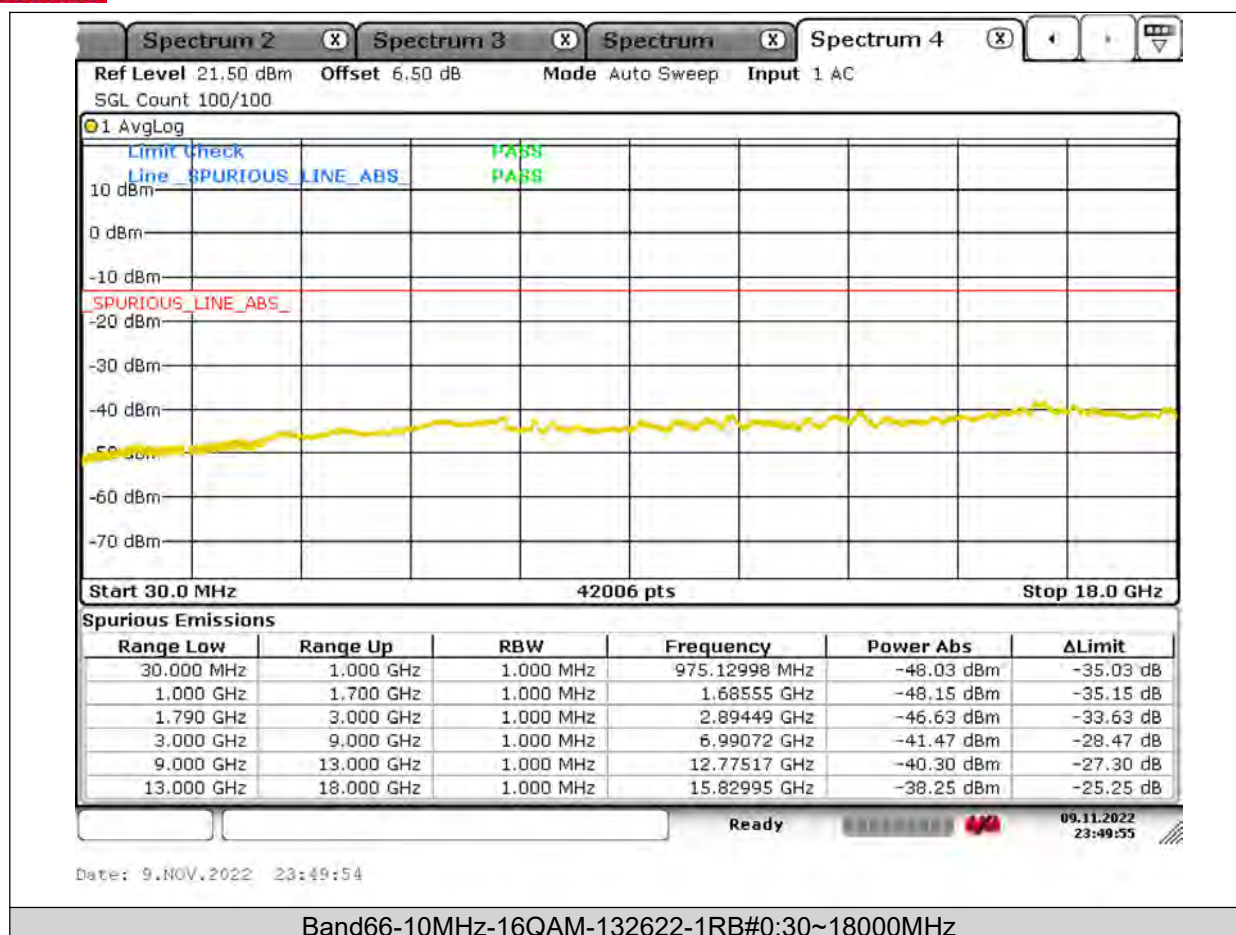
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VERITAS

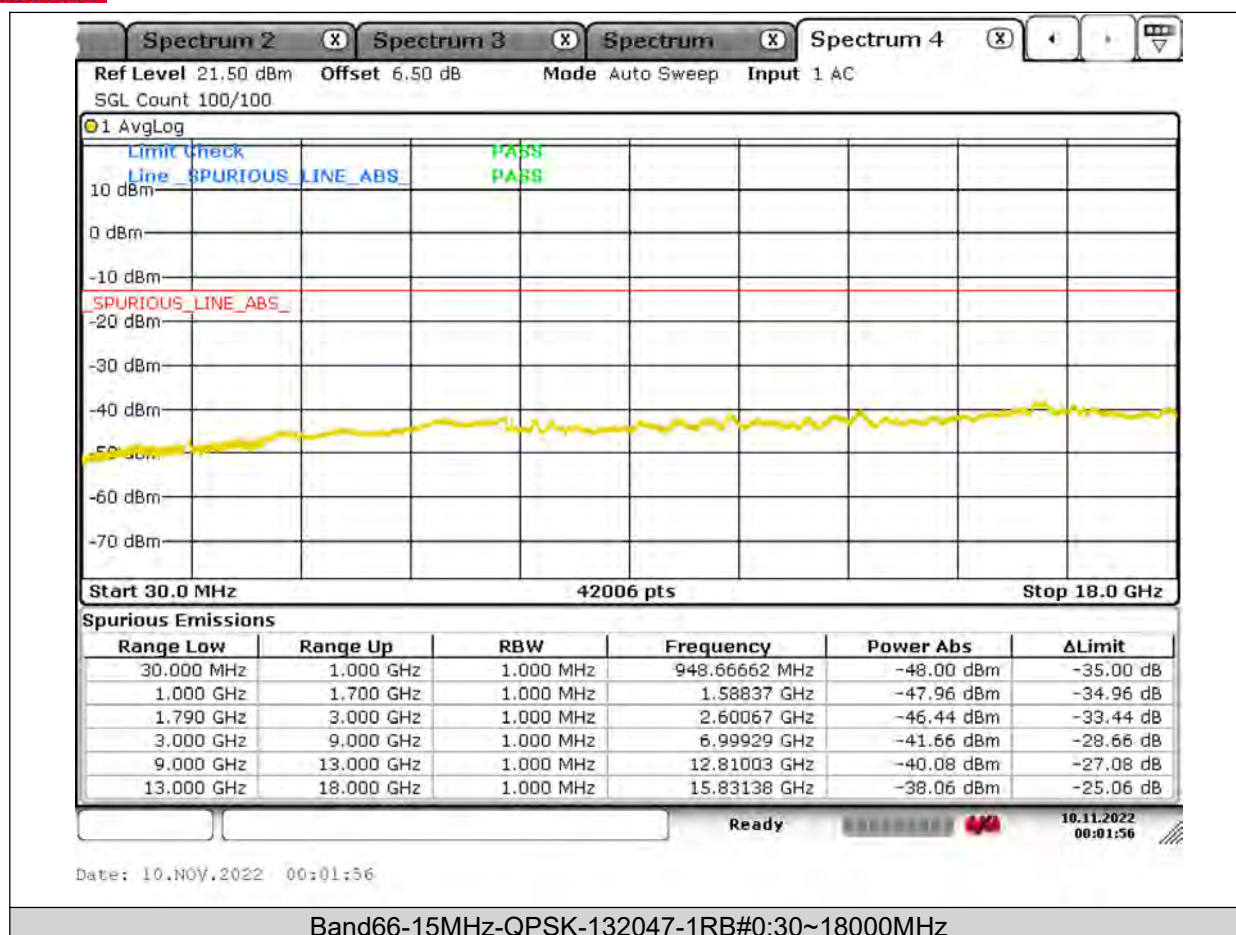
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VERITAS

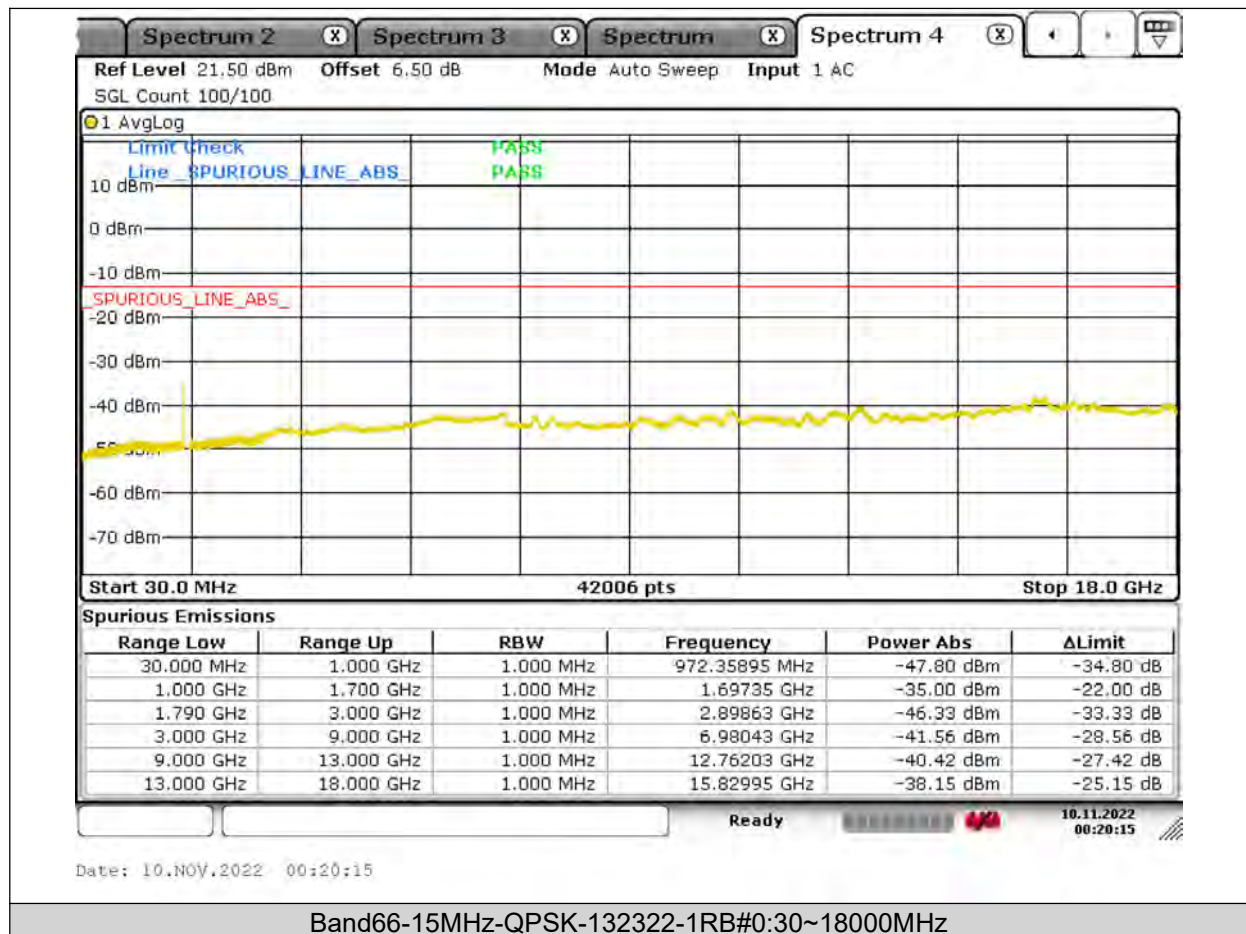
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VERITAS

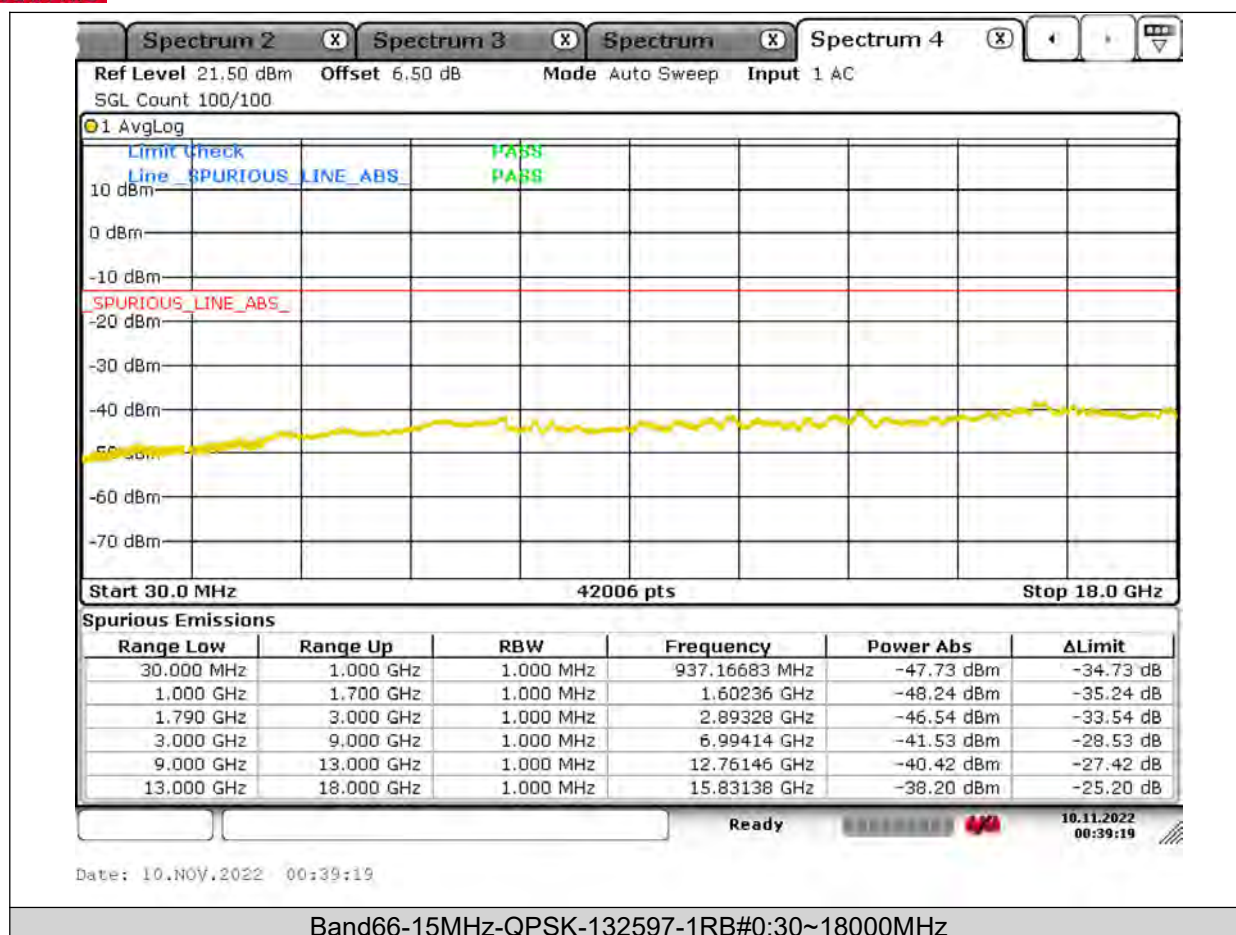
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VERITAS

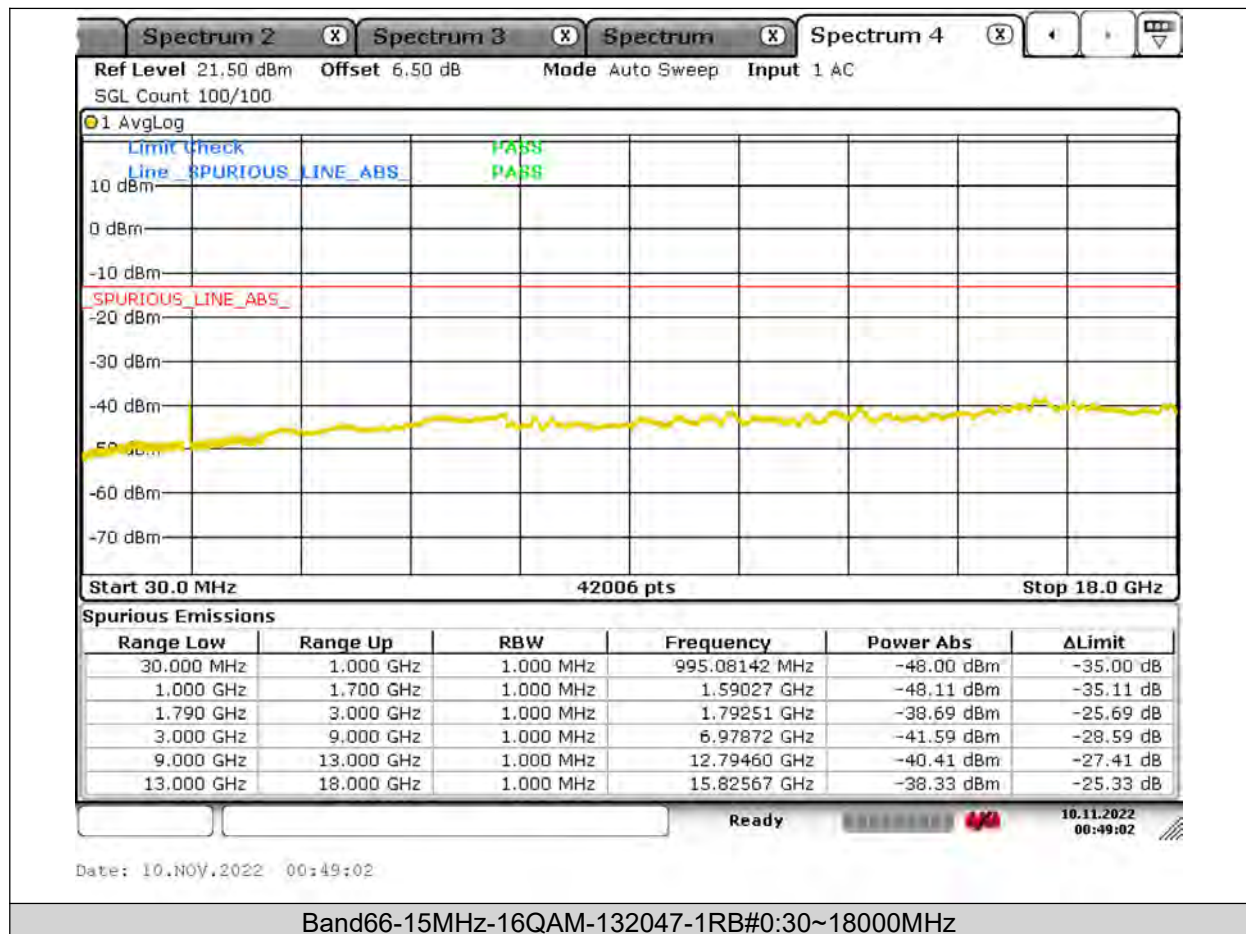
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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03





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VERITAS

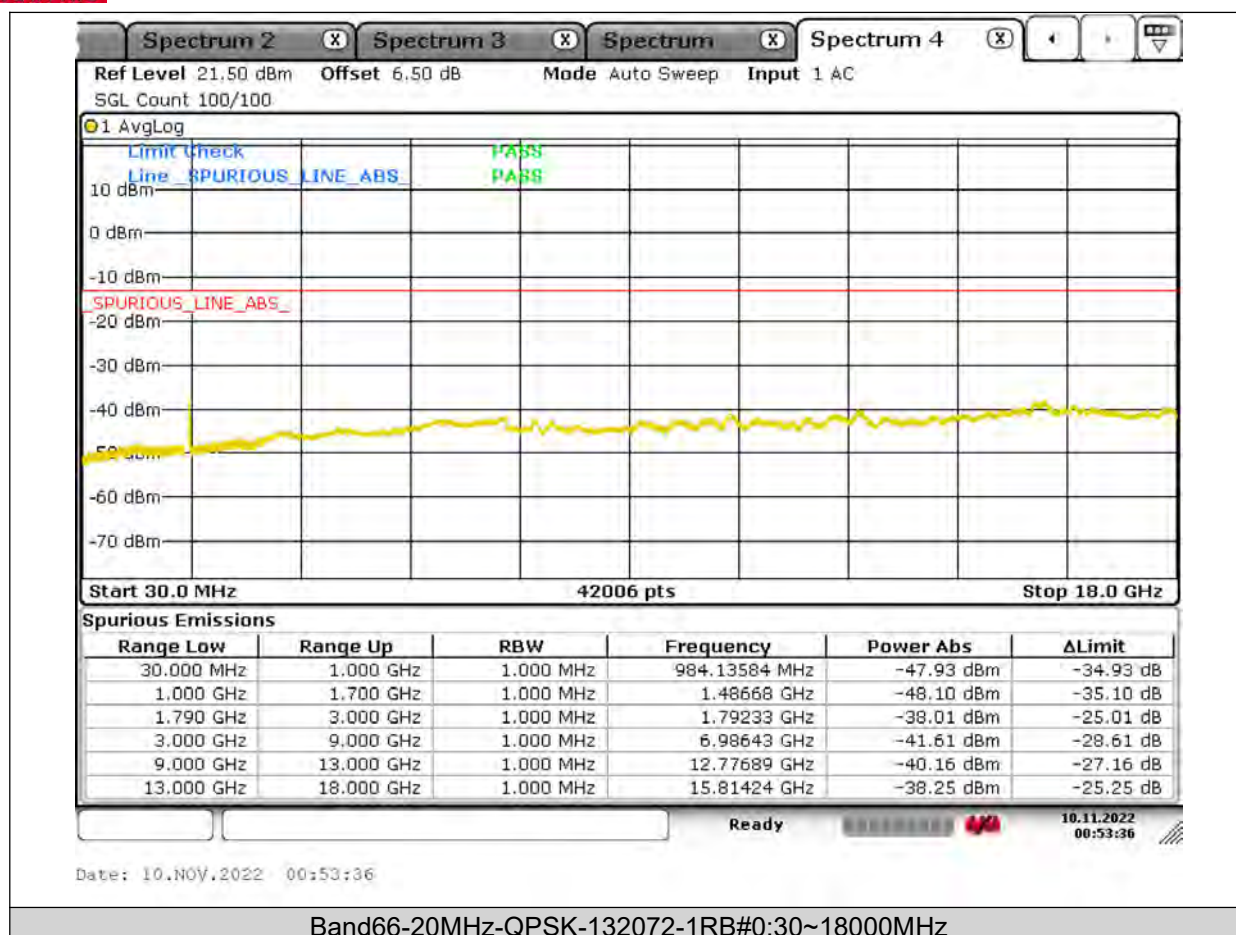
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VERITAS

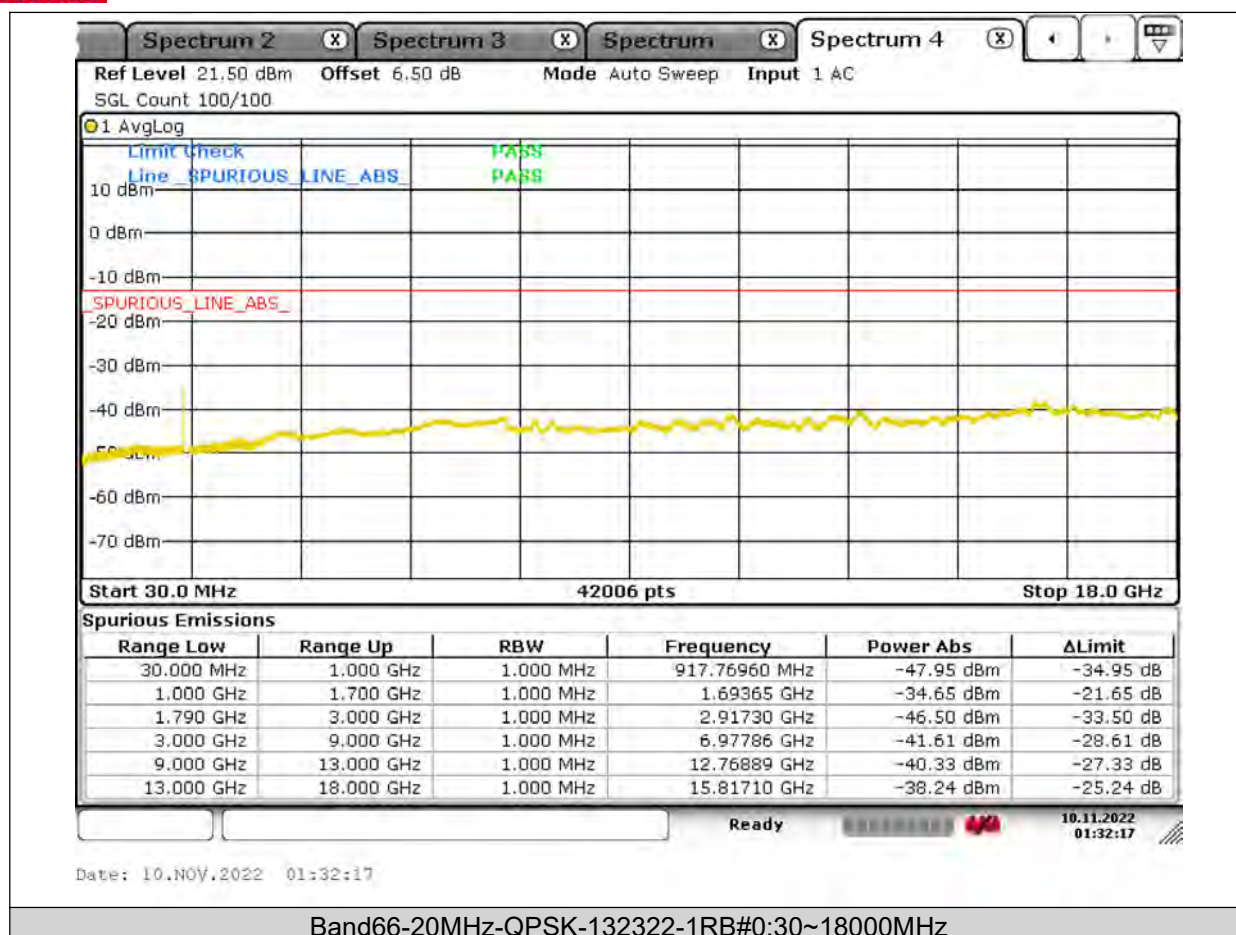
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VERITAS

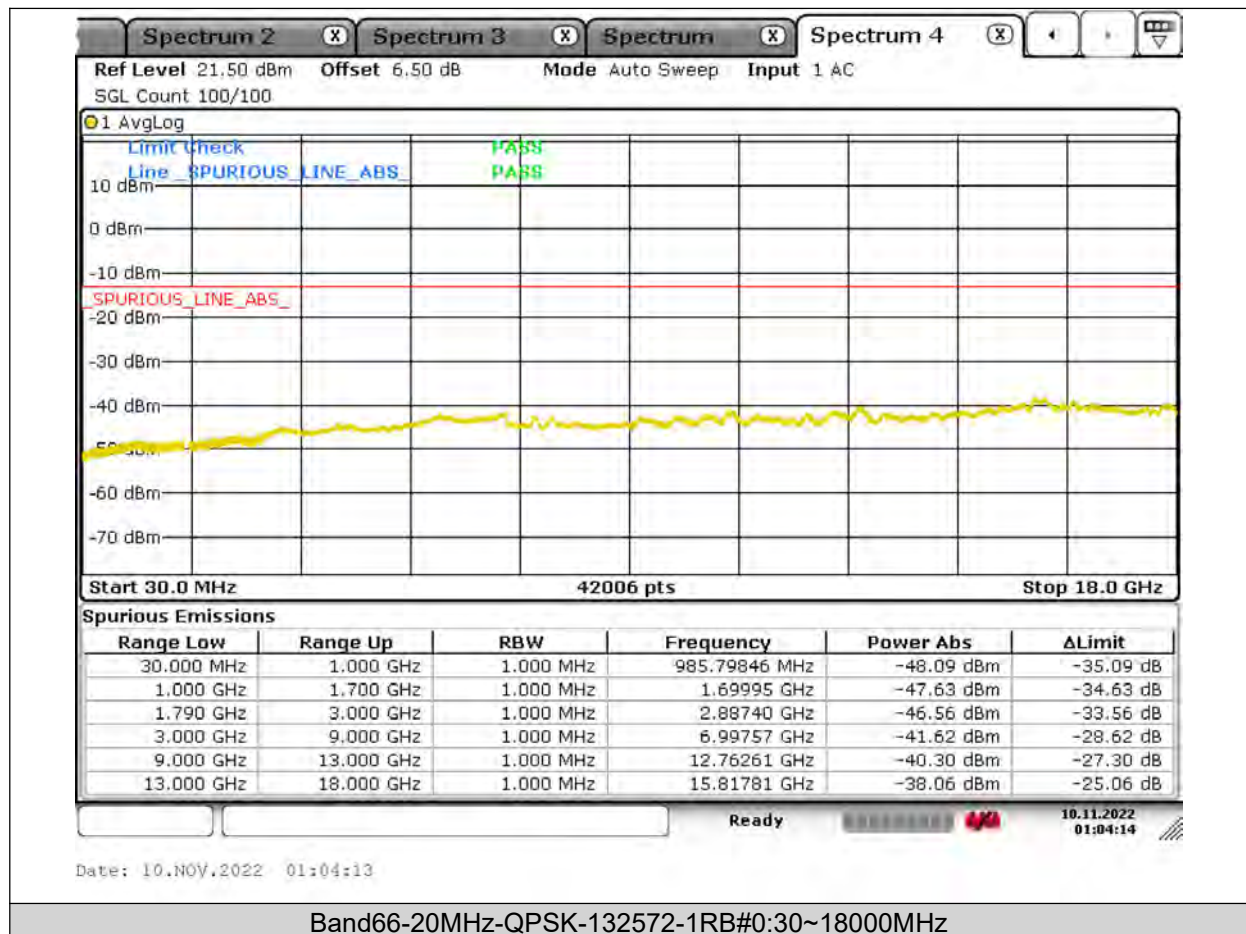
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VERITAS

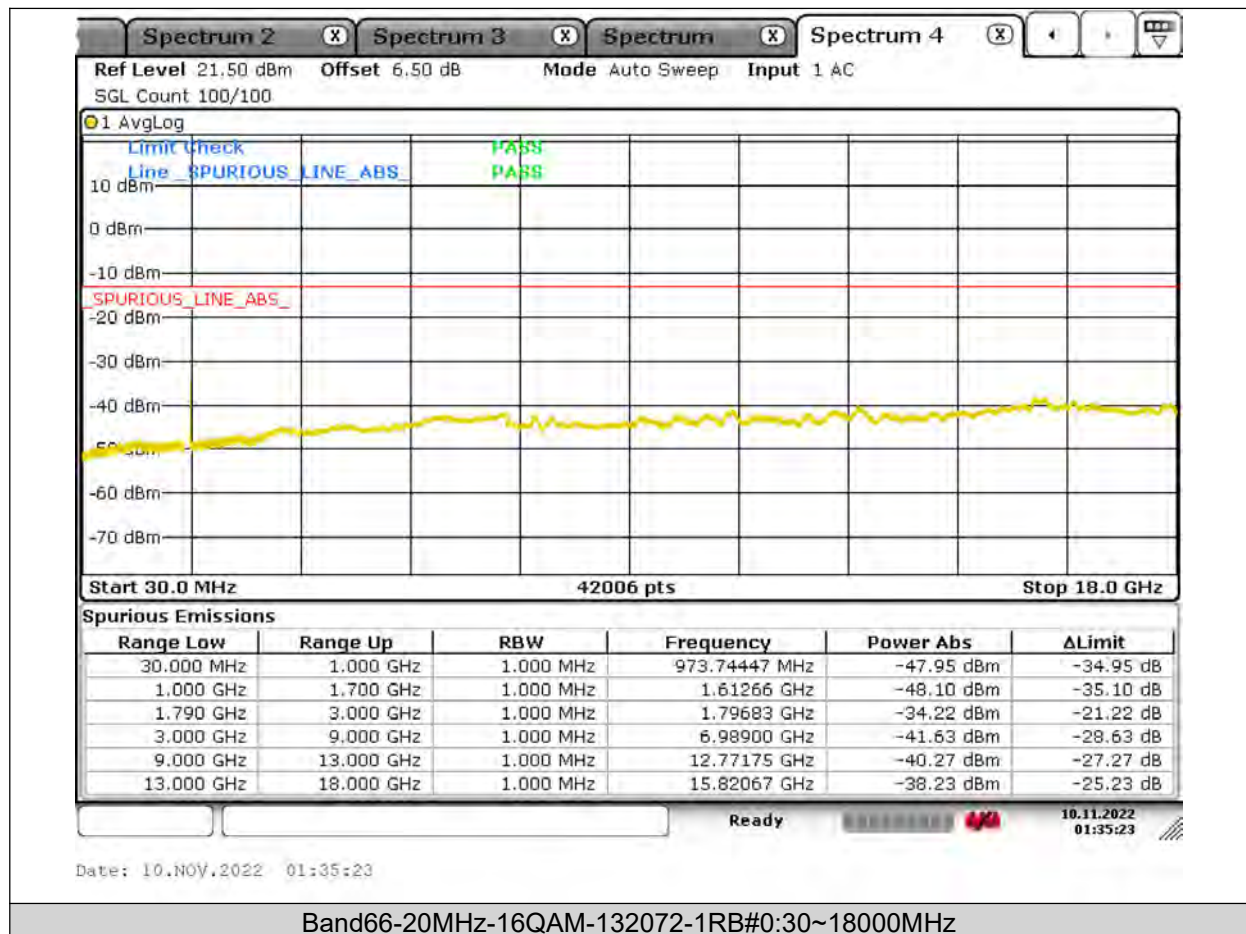
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VERITAS

Test Report No.: PSU-NQN2204290110RF03





BUREAU
VERITAS

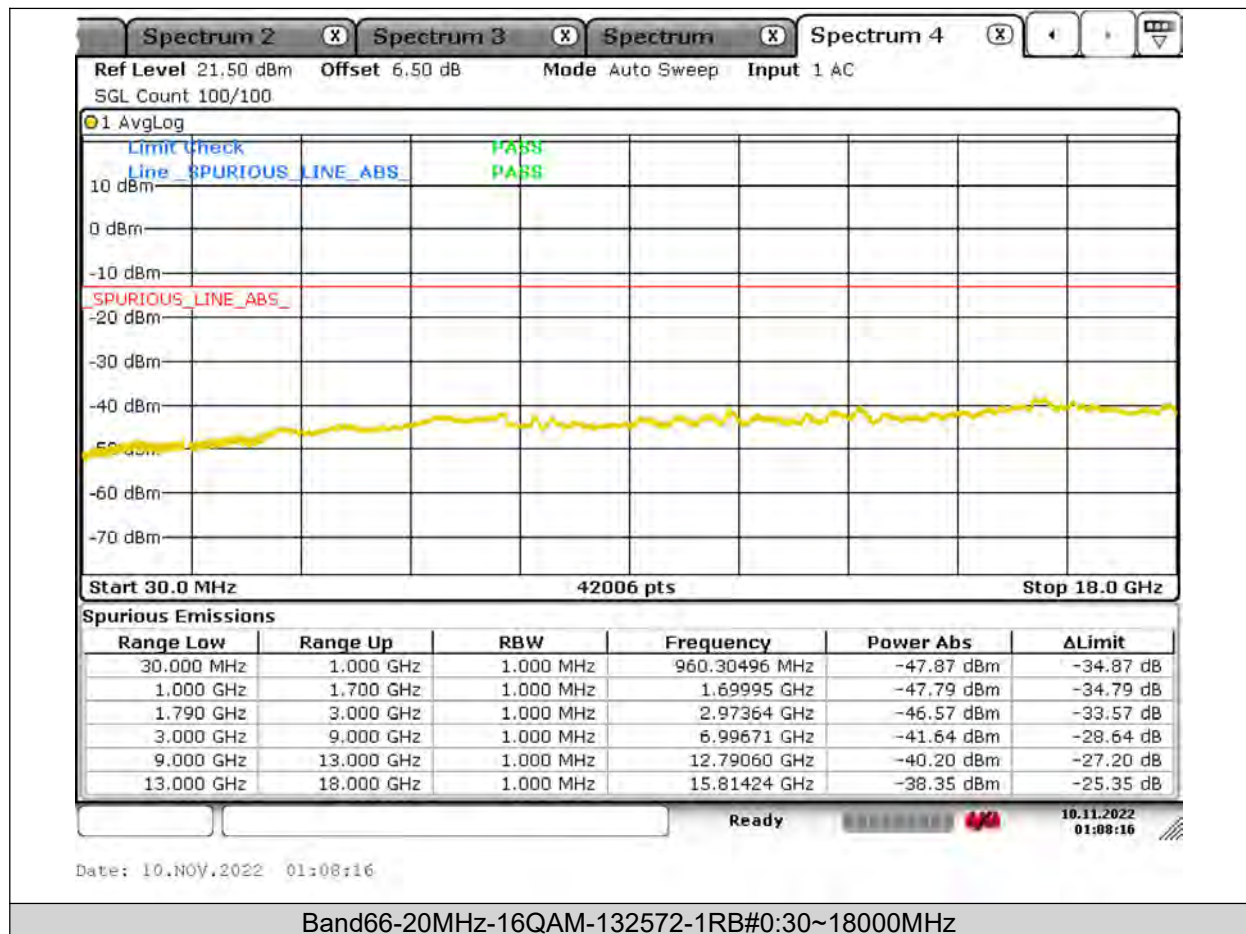
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BUREAU
VERITAS

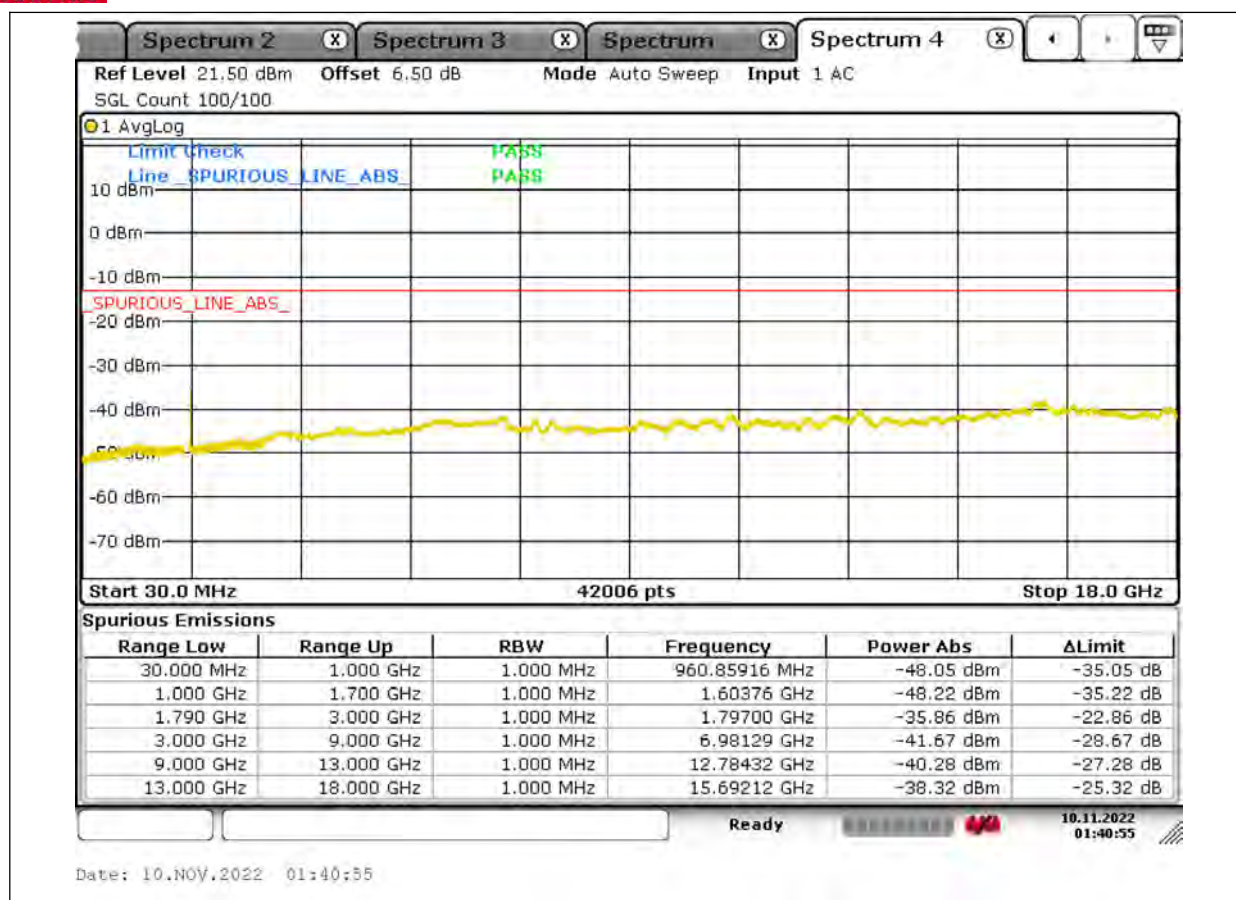
Test Report No.: PSU-NQN2204290110RF03





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VERITAS

Test Report No.: PSU-NQN2204290110RF03



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band6 6	20MHz	QPSK	13207 2	100RB#0	VL	NT	-23.9	-0.013895	±2.5	PASS
Band6 6	20MHz	QPSK	13207 2	100RB#0	VN	NT	17.3	0.010058	±2.5	PASS
Band6 6	20MHz	QPSK	13207 2	100RB#0	VH	NT	-29.6	-0.017209	±2.5	PASS
Band6 6	20MHz	QPSK	13232 2	100RB#0	VL	NT	-21.1	-0.012092	±2.5	PASS
Band6 6	20MHz	QPSK	13232 2	100RB#0	VN	NT	-6.4	-0.003668	±2.5	PASS
Band6 6	20MHz	QPSK	13232 2	100RB#0	VH	NT	25.7	0.014728	±2.5	PASS
Band6 6	20MHz	QPSK	13257 2	100RB#0	VL	NT	-3.3	-0.001864	±2.5	PASS
Band6 6	20MHz	QPSK	13257 2	100RB#0	VN	NT	-18.2	-0.010282	±2.5	PASS
Band6 6	20MHz	QPSK	13257 2	100RB#0	VH	NT	15.9	0.008983	±2.5	PASS
Band6 6	20MHz	16QAM	13207 2	100RB#0	VL	NT	-6.3	-0.003663	±2.5	PASS
Band6 6	20MHz	16QAM	13207 2	100RB#0	VN	NT	-22.1	-0.012849	±2.5	PASS
Band6 6	20MHz	16QAM	13207 2	100RB#0	VH	NT	-28.5	-0.016570	±2.5	PASS
Band6 6	20MHz	16QAM	13232 2	100RB#0	VL	NT	26.1	0.014957	±2.5	PASS
Band6 6	20MHz	16QAM	13232 2	100RB#0	VN	NT	8.6	0.004928	±2.5	PASS
Band6 6	20MHz	16QAM	13232 2	100RB#0	VH	NT	31.6	0.018109	±2.5	PASS
Band6 6	20MHz	16QAM	13257 2	100RB#0	VL	NT	13.2	0.007458	±2.5	PASS
Band6 6	20MHz	16QAM	13257 2	100RB#0	VN	NT	16.1	0.009096	±2.5	PASS
Band6 6	20MHz	16QAM	13257 2	100RB#0	VH	NT	34.4	0.019435	±2.5	PASS

Temperature										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band6 6	20MHz	QPSK	1720	100RB#0	NV	-30	-24.2	-0.014070	±2.5	PASS
Band6	20MHz	QPSK	1720	100RB#0	NV	-20	30.2	0.017558	±2.5	PASS

6										
Band6 6	20MHz	QPSK	1720	100RB#0	NV	0	23.6	0.013721	±2.5	PASS
Band6 6	20MHz	QPSK	1720	100RB#0	NV	10	-19.6	-0.011395	±2.5	PASS
Band6 6	20MHz	QPSK	1720	100RB#0	NV	20	-7	-0.004070	±2.5	PASS
Band6 6	20MHz	QPSK	1720	100RB#0	NV	30	33.4	0.019419	±2.5	PASS
Band6 6	20MHz	QPSK	1720	100RB#0	NV	40	7.3	0.004244	±2.5	PASS
Band6 6	20MHz	QPSK	1720	100RB#0	NV	50	29.3	0.017035	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	-30	0.6	0.000344	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	-20	-20.3	-0.011633	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	0	-8.7	-0.004986	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	10	-23.3	-0.013352	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	20	-30.9	-0.017708	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	30	-11.3	-0.006476	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	40	-22.1	-0.012665	±2.5	PASS
Band6 6	20MHz	QPSK	1745	100RB#0	NV	50	6.3	0.003610	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	-30	27.9	0.015763	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	-20	7.1	0.004011	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	0	10.5	0.005932	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	10	-12.3	-0.006949	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	20	31.5	0.017797	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	30	-13.7	-0.007740	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	40	-30.7	-0.017345	±2.5	PASS
Band6 6	20MHz	QPSK	1770	100RB#0	NV	50	-34.7	-0.019605	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	-30	-4.8	-0.002791	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	-20	30.4	0.017674	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	0	24.6	0.014302	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	10	-23.5	-0.013663	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	20	-15.1	-0.008779	±2.5	PASS

6										
Band6 6	20MHz	16QAM	1720	100RB#0	NV	30	28.5	0.016570	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	40	22.2	0.012907	±2.5	PASS
Band6 6	20MHz	16QAM	1720	100RB#0	NV	50	14	0.008140	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	-30	-21.4	-0.012264	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	-20	29.5	0.016905	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	0	-24.9	-0.014269	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	10	9.7	0.005559	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	20	-17.1	-0.009799	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	30	7.8	0.004470	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	40	-4.5	-0.002579	±2.5	PASS
Band6 6	20MHz	16QAM	1745	100RB#0	NV	50	-11.5	-0.006590	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	-30	-29.2	-0.016497	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	-20	-16.6	-0.009379	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	0	-7.9	-0.004463	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	10	-8	-0.004520	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	20	-11.9	-0.006723	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	30	4.1	0.002316	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	40	-26.2	-0.014802	±2.5	PASS
Band6 6	20MHz	16QAM	1770	100RB#0	NV	50	-13.7	-0.007740	±2.5	PASS