

## ANNEX A - MEASUREMENT RESULTS

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### 1 MAXIMUM OUTPUT POWER

Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.09	<b>18.73</b>	30	-11.27
				1	5	22.79	18.43	30	-11.57
				3	2	23.02	18.66	30	-11.34
				6	0	21.92	17.56	30	-12.44
	20175	1732.5	QPSK	1	0	22.99	18.63	30	-11.37
				1	5	22.69	18.33	30	-11.67
				3	2	22.89	18.53	30	-11.47
				6	0	21.65	17.29	30	-12.71
	20393	1754.3	QPSK	1	0	22.69	18.33	30	-11.67
				1	5	22.77	18.41	30	-11.59
				3	2	22.77	18.41	30	-11.59
				6	0	21.65	17.29	30	-12.71
1.4	19957	1710.7	16QAM	1	0	21.62	17.26	30	-12.74
				1	5	21.65	17.29	30	-12.71
				3	2	21.83	<b>17.47</b>	30	-12.53
				6	0	20.76	16.40	30	-13.6
	20175	1732.5	16QAM	1	0	21.65	17.29	30	-12.71
				1	5	21.64	17.28	30	-12.72
				3	2	21.75	17.39	30	-12.61
				6	0	20.78	16.42	30	-13.58
	20393	1754.3	16QAM	1	0	21.65	17.29	30	-12.71
				1	5	21.75	17.39	30	-12.61
				3	2	21.73	17.37	30	-12.63
				6	0	20.79	16.43	30	-13.57

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.08	<b>18.72</b>	30	-11.28
				1	14	22.95	18.59	30	-11.41
				8	4	22.03	17.67	30	-12.33
				15	0	21.96	17.60	30	-12.4
	20175	1732.5	QPSK	1	0	23.04	18.68	30	-11.32
				1	14	22.89	18.53	30	-11.47
				8	4	21.77	17.41	30	-12.59
				15	0	21.71	17.35	30	-12.65
	20385	1753.5	QPSK	1	0	22.72	18.36	30	-11.64
				1	14	22.73	18.37	30	-11.63
				8	4	21.72	17.36	30	-12.64
				15	0	21.78	17.42	30	-12.58
3	19965	1711.5	16QAM	1	0	21.76	17.40	30	-12.6
				1	14	21.61	17.25	30	-12.75
				8	4	21.17	16.81	30	-13.19
				15	0	20.81	16.45	30	-13.55
	20175	1732.5	16QAM	1	0	21.66	17.30	30	-12.7
				1	14	21.79	<b>17.43</b>	30	-12.57
				8	4	20.92	16.56	30	-13.44
				15	0	20.81	16.45	30	-13.55
	20385	1753.5	16QAM	1	0	21.77	17.41	30	-12.59
				1	14	21.74	17.38	30	-12.62
				8	4	20.68	16.32	30	-13.68
				15	0	20.73	16.37	30	-13.63

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.10	<b>18.74</b>	30	-11.26
				1	24	22.98	18.62	30	-11.38
				12	6	21.89	17.53	30	-12.47
				25	0	21.93	17.57	30	-12.43
	20175	1732.5	QPSK	1	0	22.88	18.52	30	-11.48
				1	24	22.85	18.49	30	-11.51
				12	6	21.74	17.38	30	-12.62
				25	0	21.74	17.38	30	-12.62
	20375	1752.5	QPSK	1	0	22.91	18.55	30	-11.45
				1	24	22.75	18.39	30	-11.61
				12	6	21.77	17.41	30	-12.59
				25	0	21.72	17.36	30	-12.64
5	19975	1712.5	16QAM	1	0	21.74	17.38	30	-12.62
				1	24	21.68	17.32	30	-12.68
				12	6	21.01	16.65	30	-13.35
				25	0	21.12	16.76	30	-13.24
	20175	1732.5	16QAM	1	0	21.77	<b>17.41</b>	30	-12.59
				1	24	21.69	17.33	30	-12.67
				12	6	20.82	16.46	30	-13.54
				25	0	20.73	16.37	30	-13.63
	20375	1752.5	16QAM	1	0	21.73	17.37	30	-12.63
				1	24	21.64	17.28	30	-12.72
				12	6	20.89	16.53	30	-13.47
				25	0	20.78	16.42	30	-13.58

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.13	<b>18.77</b>	30	-11.23
				1	49	23.05	18.69	30	-11.31
				25	12	22.01	17.65	30	-12.35
				50	0	21.95	17.59	30	-12.41
	20175	1732.5	QPSK	1	0	23.03	18.67	30	-11.33
				1	49	22.84	18.48	30	-11.52
				25	12	21.75	17.39	30	-12.61
				50	0	21.63	17.27	30	-12.73
	20350	1750	QPSK	1	0	23.11	18.75	30	-11.25
				1	49	22.78	18.42	30	-11.58
				25	12	21.94	17.58	30	-12.42
				50	0	21.87	17.51	30	-12.49
10	20000	1715	16QAM	1	0	21.78	17.42	30	-12.58
				1	49	21.64	17.28	30	-12.72
				25	12	21.08	16.72	30	-13.28
				50	0	21.11	16.75	30	-13.25
	20175	1732.5	16QAM	1	0	21.79	<b>17.43</b>	30	-12.57
				1	49	21.75	17.39	30	-12.61
				25	12	20.97	16.61	30	-13.39
				50	0	20.81	16.45	30	-13.55
	20350	1750	16QAM	1	0	21.78	17.42	30	-12.58
				1	49	21.65	17.29	30	-12.71
				25	12	21.02	16.66	30	-13.34
				50	0	21.05	16.69	30	-13.31

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.24	<b>18.88</b>	30	-11.12
				1	74	23.15	18.79	30	-11.21
				36	18	21.99	17.63	30	-12.37
				75	0	22.03	17.67	30	-12.33
	20175	1732.5	QPSK	1	0	23.05	18.69	30	-11.31
				1	74	22.90	18.54	30	-11.46
				36	18	21.70	17.34	30	-12.66
				75	0	21.66	17.30	30	-12.7
	20325	1747.5	QPSK	1	0	23.04	18.68	30	-11.32
				1	74	22.74	18.38	30	-11.62
				36	18	22.07	17.71	30	-12.29
				75	0	21.94	17.58	30	-12.42
15	20025	1717.5	16QAM	1	0	21.75	17.39	30	-12.61
				1	74	21.67	17.31	30	-12.69
				36	18	21.09	16.73	30	-13.27
				75	0	21.19	16.83	30	-13.17
	20175	1732.5	16QAM	1	0	21.81	17.45	30	-12.55
				1	74	21.75	17.39	30	-12.61
				36	18	20.59	16.23	30	-13.77
				75	0	20.75	16.39	30	-13.61
	20325	1747.5	16QAM	1	0	21.82	<b>17.46</b>	30	-12.54
				1	74	21.76	17.40	30	-12.6
				36	18	21.16	16.80	30	-13.2
				75	0	20.93	16.57	30	-13.43

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	22.99	18.63	30	-11.37
				1	99	22.81	18.45	30	-11.55
				50	25	22.03	17.67	30	-12.33
				100	0	22.00	17.64	30	-12.36
	20175	1732.5	QPSK	1	0	23.00	<b>18.64</b>	30	-11.36
				1	99	22.73	18.37	30	-11.63
				50	25	21.74	17.38	30	-12.62
				100	0	21.78	17.42	30	-12.58
	20300	1745	QPSK	1	0	22.98	18.62	30	-11.38
				1	99	22.80	18.44	30	-11.56
				50	25	22.04	17.68	30	-12.32
				100	0	21.90	17.54	30	-12.46
20	20050	1720	16QAM	1	0	21.70	17.34	30	-12.66
				1	99	21.78	<b>17.42</b>	30	-12.58
				50	25	21.20	16.84	30	-13.16
				100	0	21.12	16.76	30	-13.24
	20175	1732.5	16QAM	1	0	21.68	17.32	30	-12.68
				1	99	21.72	17.36	30	-12.64
				50	25	20.66	16.30	30	-13.7
				100	0	20.64	16.28	30	-13.72
	20300	1745	16QAM	1	0	21.65	17.29	30	-12.71
				1	99	21.70	17.34	30	-12.66
				50	25	21.11	16.75	30	-13.25
				100	0	20.85	16.49	30	-13.51

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Antenna gain (dBi)		-9.35								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.78	14.43	<b>12.28</b>	34.77	-22.49
				1	24	23.70	14.35	12.20	34.77	-22.57
				12	6	22.62	13.27	11.12	34.77	-23.65
				25	0	22.71	13.36	11.21	34.77	-23.56
	23230	782	QPSK	1	0	23.66	14.31	12.16	34.77	-22.61
				1	24	23.69	14.34	12.19	34.77	-22.58
				12	6	22.60	13.25	11.10	34.77	-23.67
				25	0	22.61	13.26	11.11	34.77	-23.66
	23255	784.5	QPSK	1	0	23.74	14.39	12.24	34.77	-22.53
				1	24	23.75	14.40	12.25	34.77	-22.52
				12	6	22.74	13.39	11.24	34.77	-23.53
				25	0	22.75	13.40	11.25	34.77	-23.52
5	23205	779.5	16QAM	1	0	22.71	13.36	11.21	34.77	-23.56
				1	24	22.62	13.27	11.12	34.77	-23.65
				12	6	21.64	12.29	10.14	34.77	-24.63
				25	0	21.70	12.35	10.20	34.77	-24.57
	23230	782	16QAM	1	0	22.71	13.36	11.21	34.77	-23.56
				1	24	22.77	13.42	11.27	34.77	-23.50
				12	6	21.67	12.32	10.17	34.77	-24.60
				25	0	21.68	12.33	10.18	34.77	-24.59
	23255	784.5	16QAM	1	0	22.80	13.45	<b>11.30</b>	34.77	-23.47
				1	24	22.78	13.43	11.28	34.77	-23.49
				12	6	21.73	12.38	10.23	34.77	-24.54
				25	0	21.66	12.31	10.16	34.77	-24.61

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Antenna gain (dBi)		-9.35								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.93	14.58	12.43	34.77	-22.34
				1	49	23.76	14.41	12.26	34.77	-22.51
				25	12	22.61	13.26	11.11	34.77	-23.66
				50	0	22.71	13.36	11.21	34.77	-23.56
10	23230	782	16QAM	1	0	22.72	13.37	11.22	34.77	-23.55
				1	49	22.73	13.38	11.23	34.77	-23.54
				25	12	21.60	12.25	10.10	34.77	-24.67
				50	0	21.66	12.31	10.16	34.77	-24.61

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## 2 OCCUPIED BANDWIDTH MEASUREMENT

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0887	1.0897	1.278	<b>1.311</b>
1732.5	20175	<b>1.0899</b>	1.0893	1.278	1.310
1754.3	20393	1.0889	<b>1.0914</b>	<b>1.282</b>	1.310

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6835	2.6885	2.957	<b>2.970</b>
1732.5	20175	2.6835	2.6893	<b>2.966</b>	2.966
1753.5	20385	<b>2.6872</b>	<b>2.6920</b>	2.956	2.958

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	<b>4.4814</b>	<b>4.4829</b>	5.007	4.964
1732.5	20175	4.4812	4.4827	<b>5.014</b>	<b>5.011</b>
1752.5	20375	4.4809	4.4812	5.008	4.992

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9550	8.9278	<b>9.815</b>	9.755
1732.5	20175	8.9512	<b>8.9368</b>	9.424	9.772
1750.0	20350	<b>8.9718</b>	8.9247	9.797	<b>9.826</b>

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.4280	13.4010	14.570	<b>14.670</b>
1732.5	20175	<b>13.4360</b>	<b>13.4140</b>	<b>14.610</b>	14.660
1747.5	20325	13.4230	13.3940	14.590	14.610

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	<b>17.8560</b>	<b>17.8790</b>	<b>19.360</b>	19.370
1732.5	20175	<b>17.8560</b>	17.8690	19.340	<b>19.380</b>
1745.0	20300	17.8030	17.8280	19.140	19.290

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	<b>4.4848</b>	<b>4.4871</b>	<b>4.993</b>	<b>5.015</b>
782.0	23230	4.4773	4.4753	4.950	4.949
784.5	23255	4.4843	4.4841	4.974	4.978

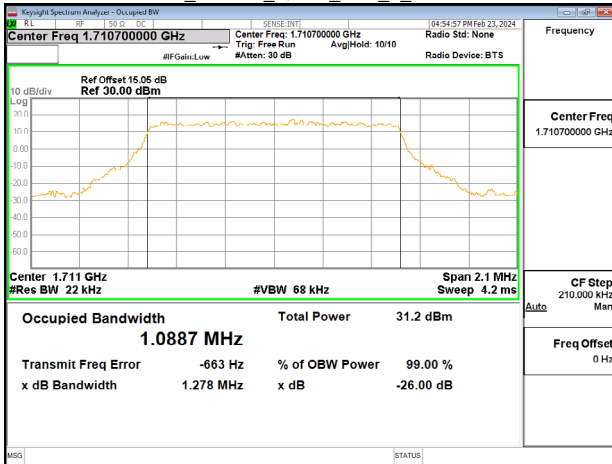
LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	<b>8.9595</b>	<b>8.9336</b>	<b>9.718</b>	<b>9.725</b>

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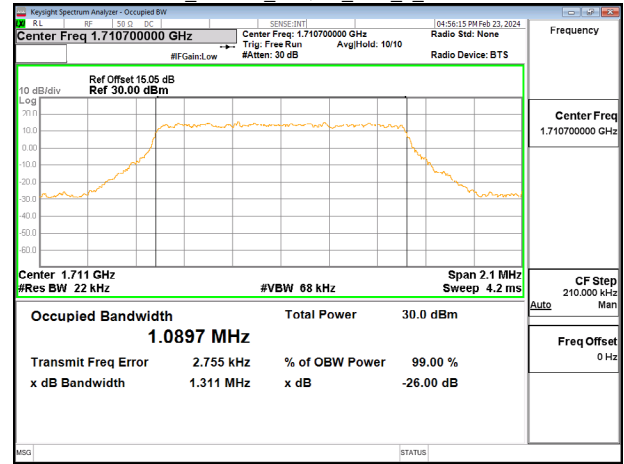
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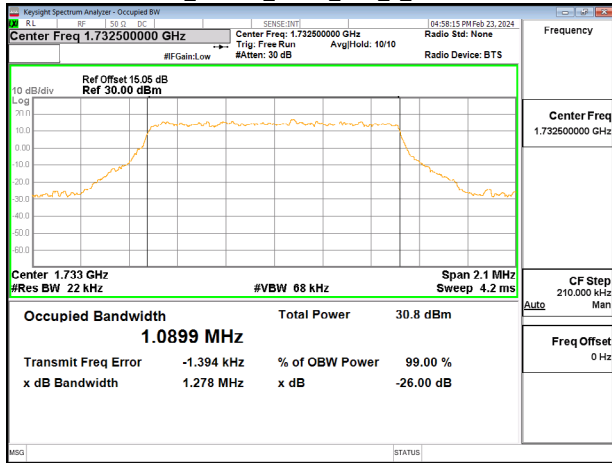
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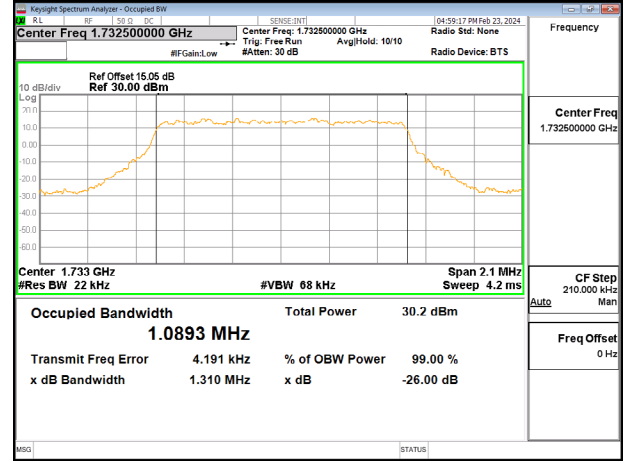
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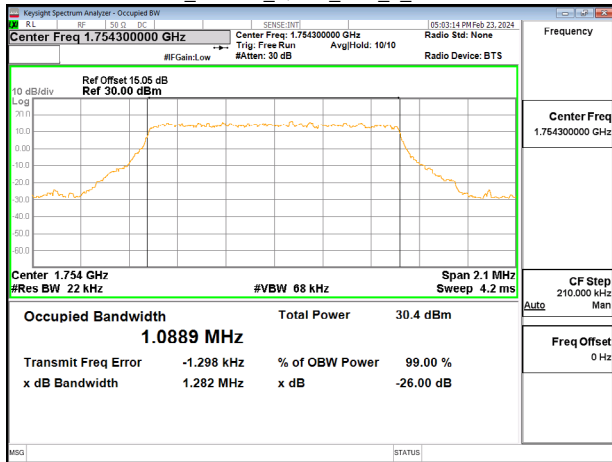
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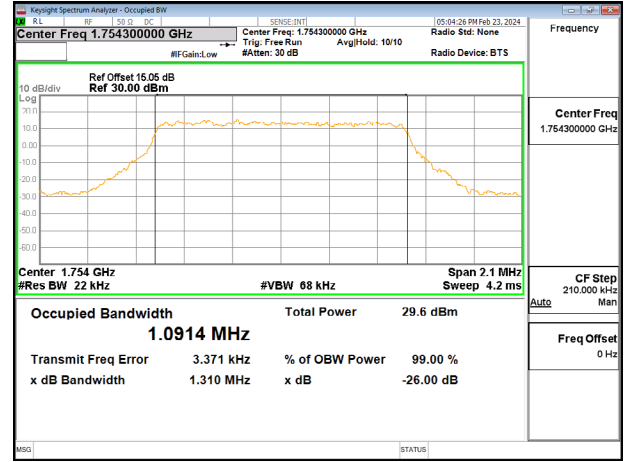
Band4\_1.4MHz\_16QAM\_RB6\_0\_CH20175



Band4\_1.4MHz\_QPSK\_RB6\_0\_CH20393



Band4\_1.4MHz\_16QAM\_RB6\_0\_CH20393

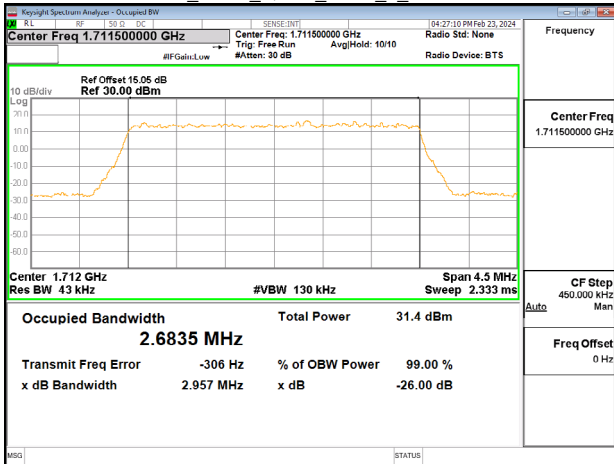


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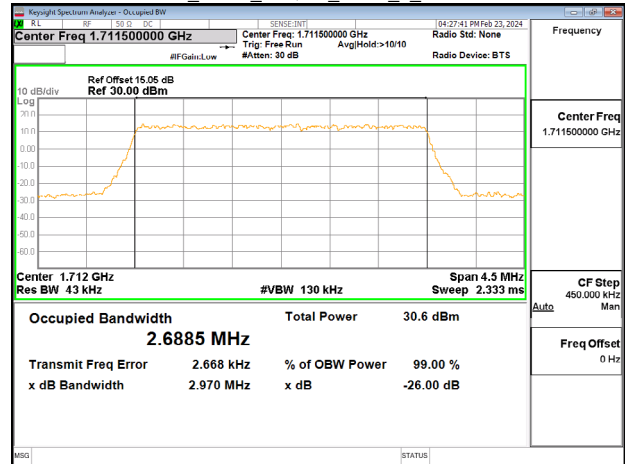
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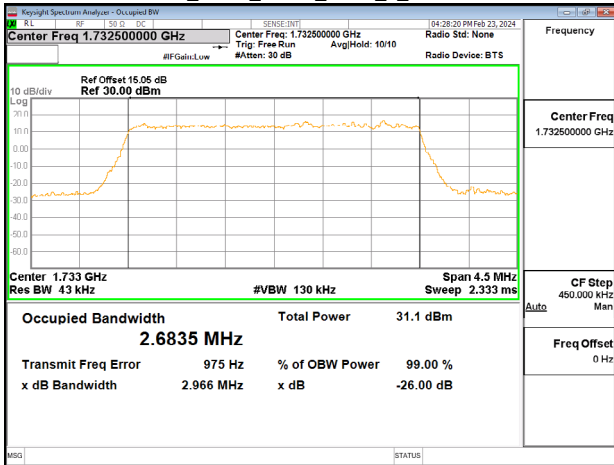
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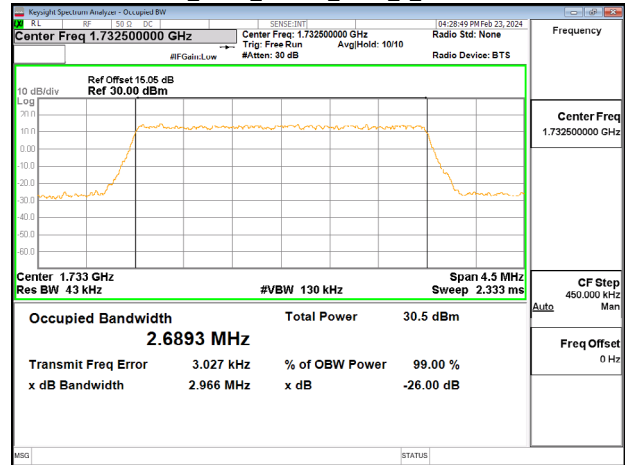
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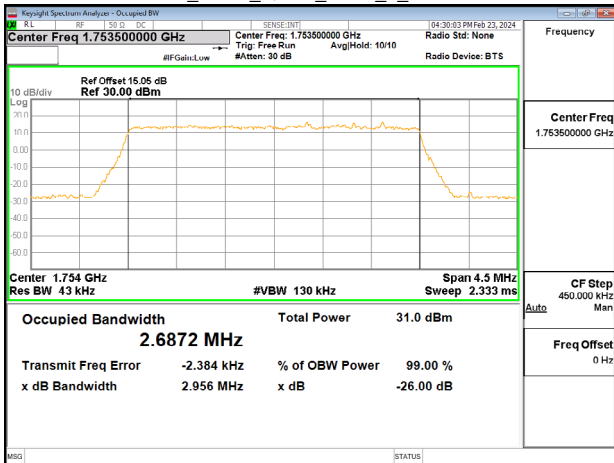
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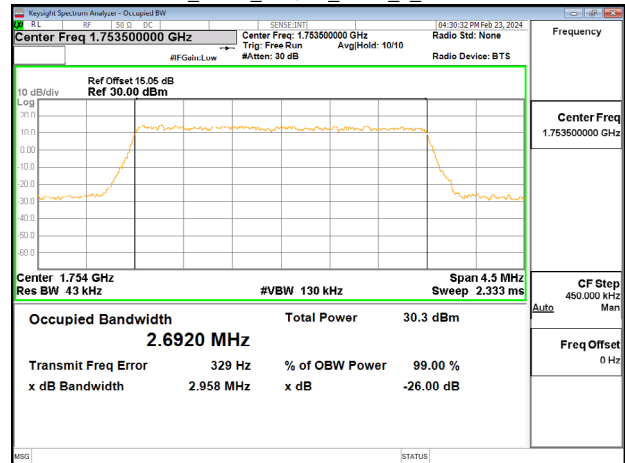
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Band4\_3MHz\_QPSK\_RB15\_0\_CH20385



Band4\_3MHz\_16QAM\_RB15\_0\_CH20385

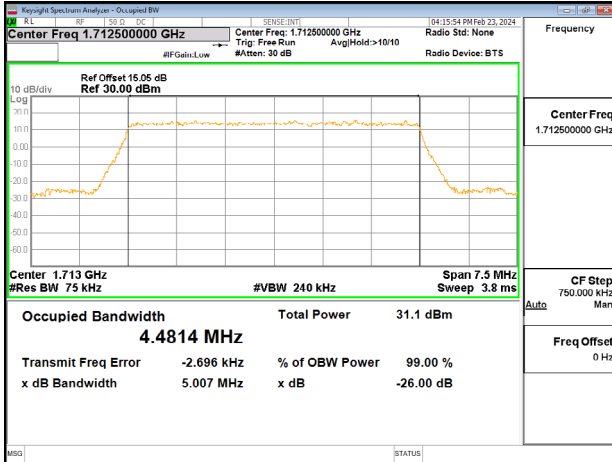


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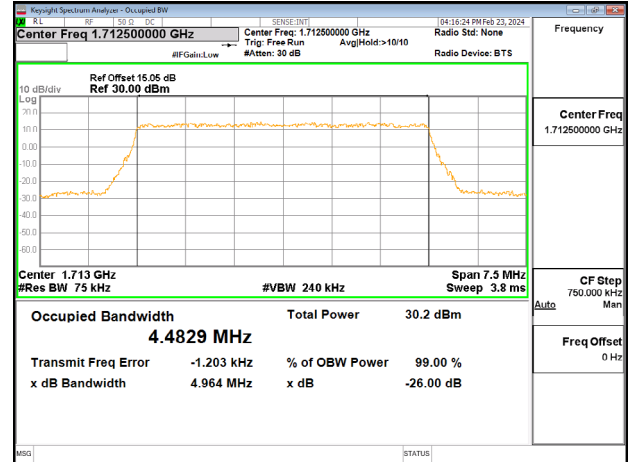
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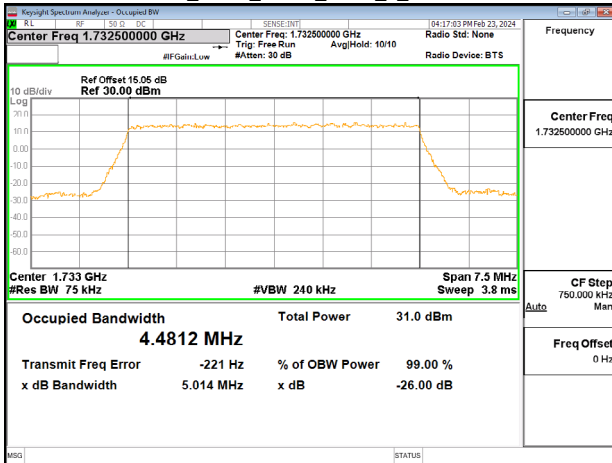
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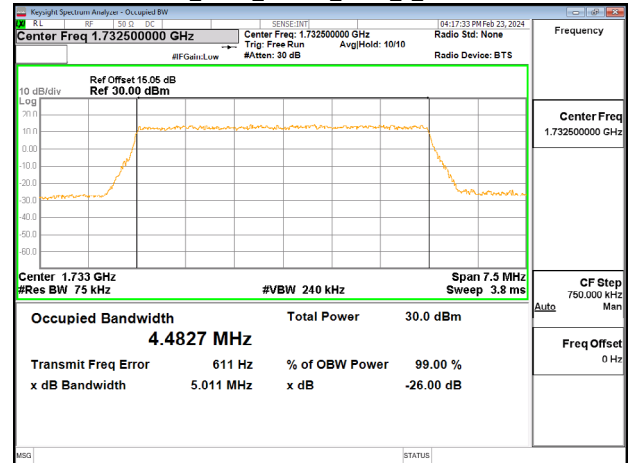
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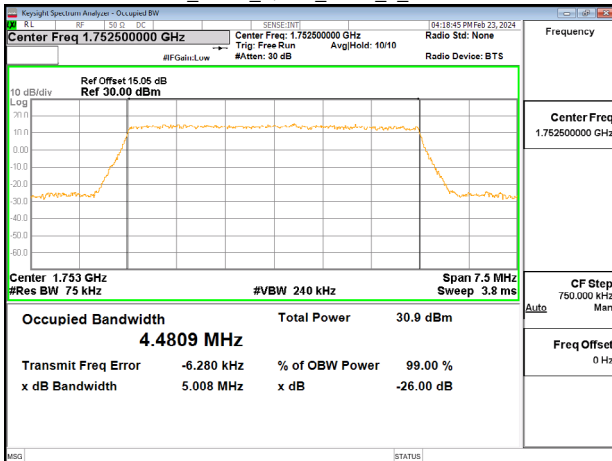
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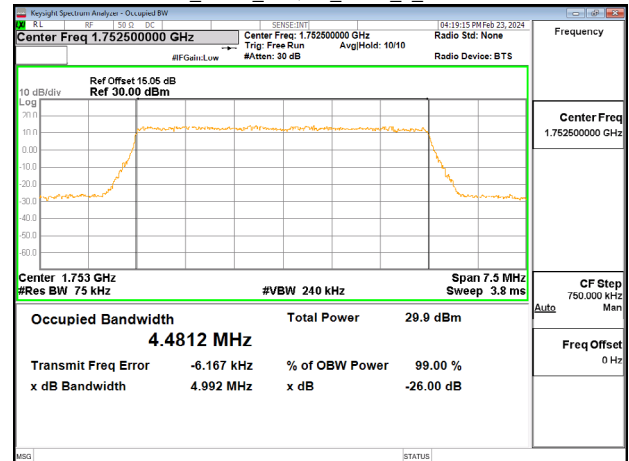
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Band4\_5MHz\_QPSK\_RB25\_0\_CH20375



Band4\_5MHz\_16QAM\_RB25\_0\_CH20375

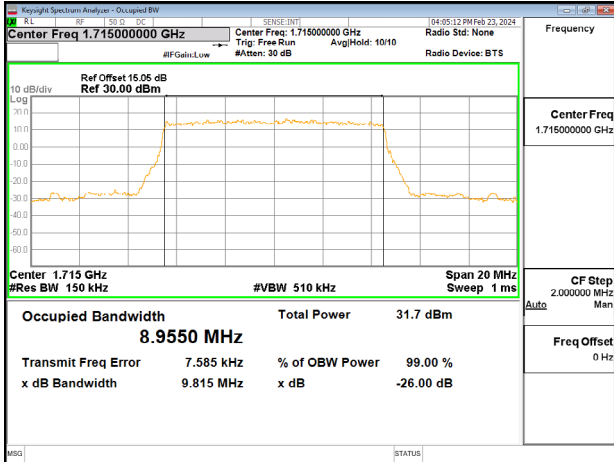


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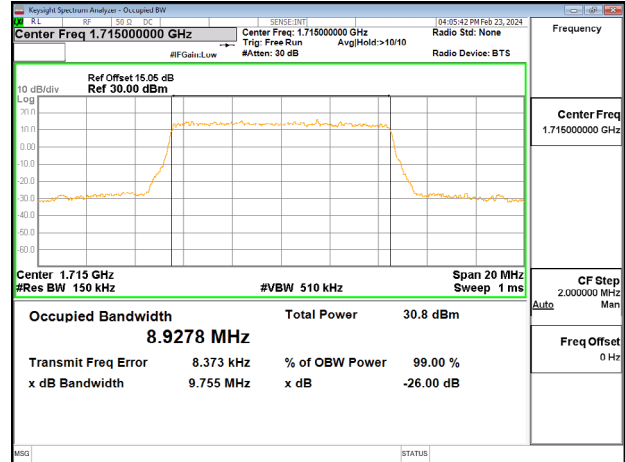
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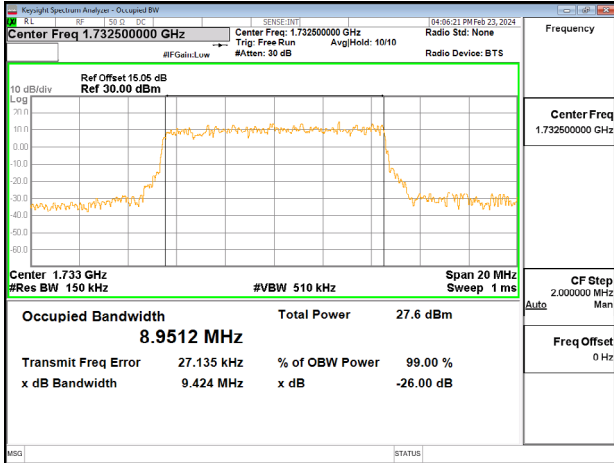
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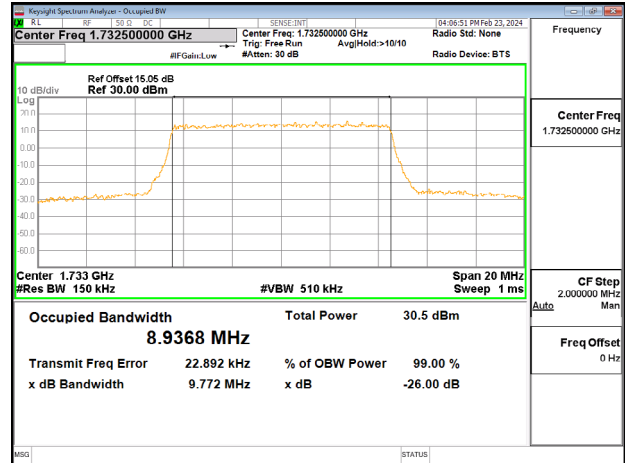
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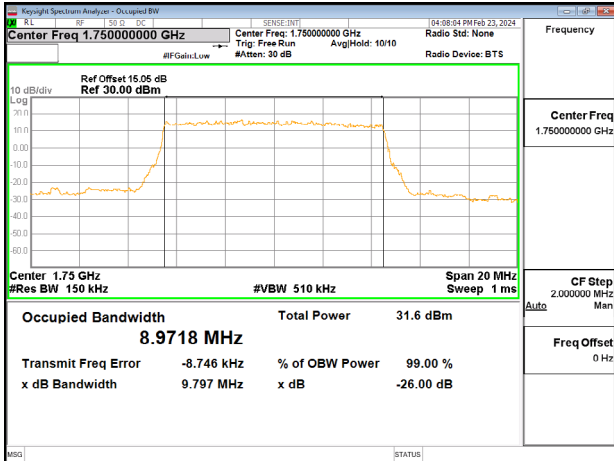
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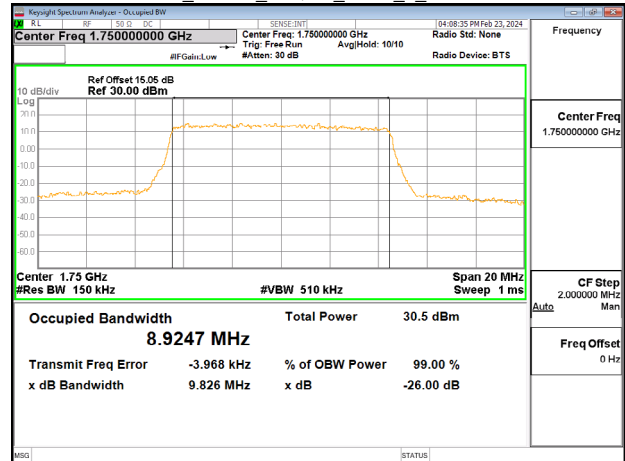
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Band4\_10MHz\_QPSK\_RB50\_0\_CH20350



Band4\_10MHz\_16QAM\_RB50\_0\_CH20350

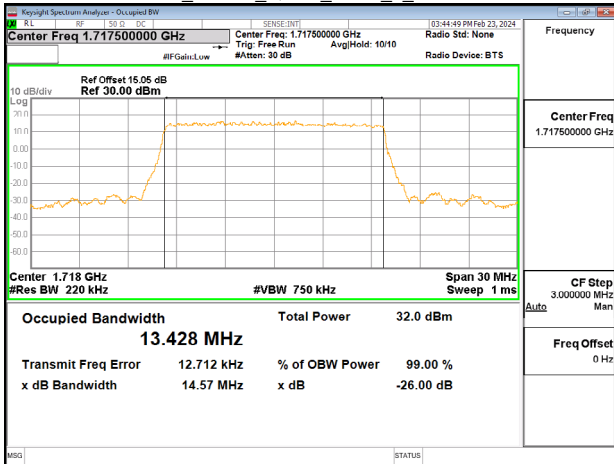


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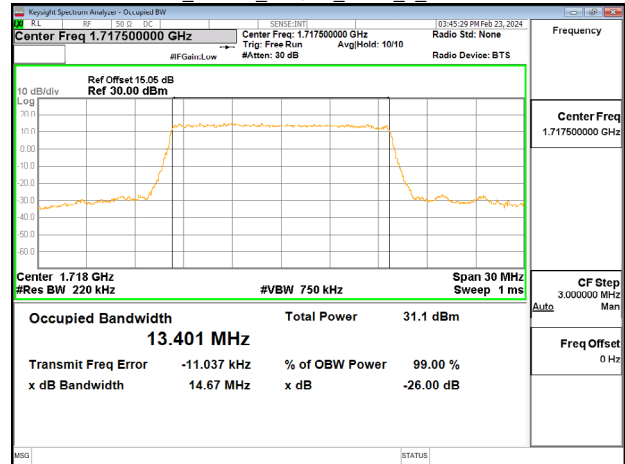
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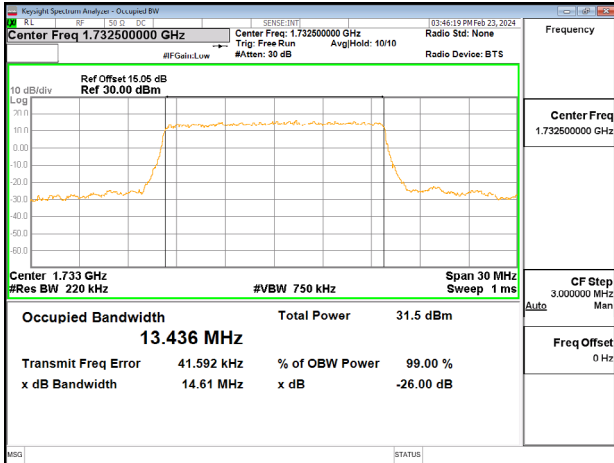
Band4\_15MHz\_QPSK\_RB75\_0\_CH20025



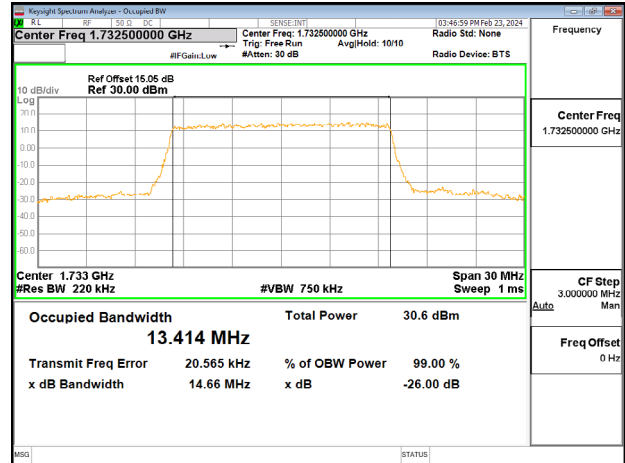
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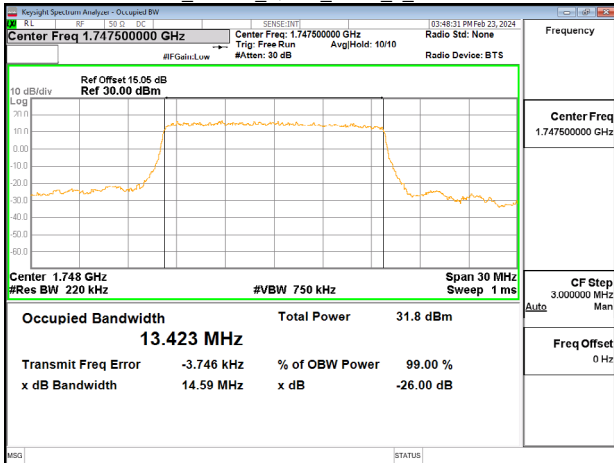
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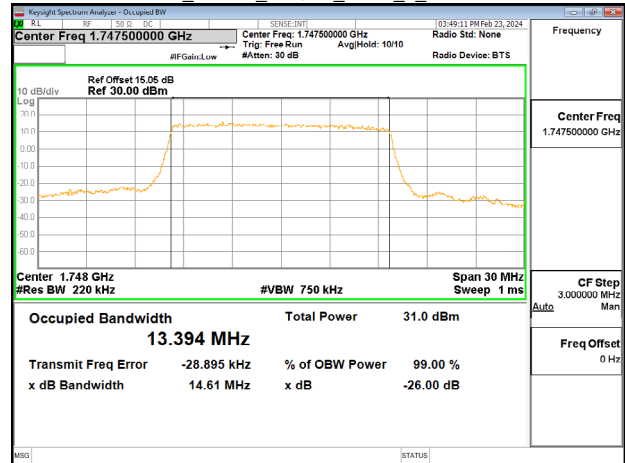
Band4\_15MHz\_16QAM\_RB75\_0\_CH20175



Band4\_15MHz\_QPSK\_RB75\_0\_CH20325



Band4\_15MHz\_16QAM\_RB75\_0\_CH20325

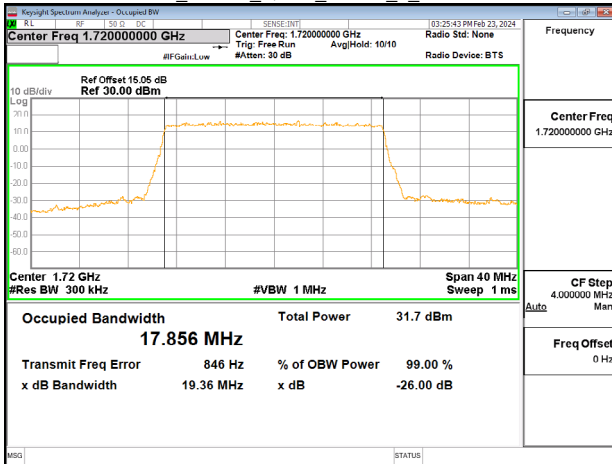


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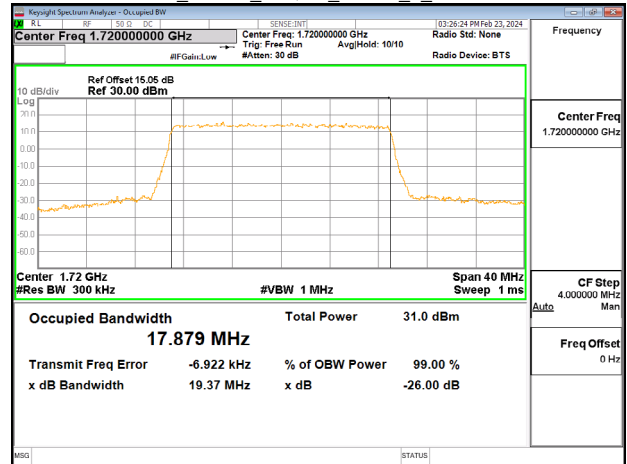
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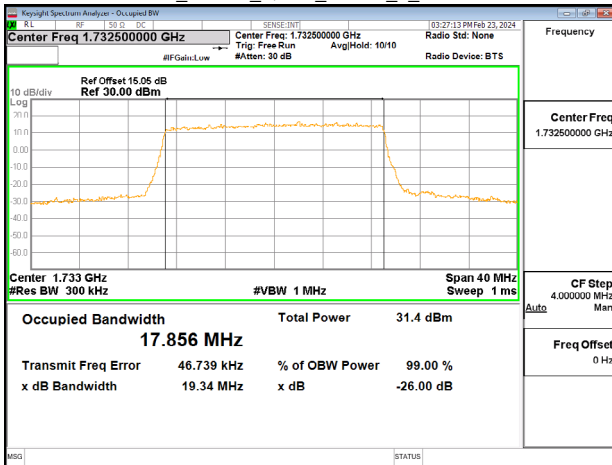
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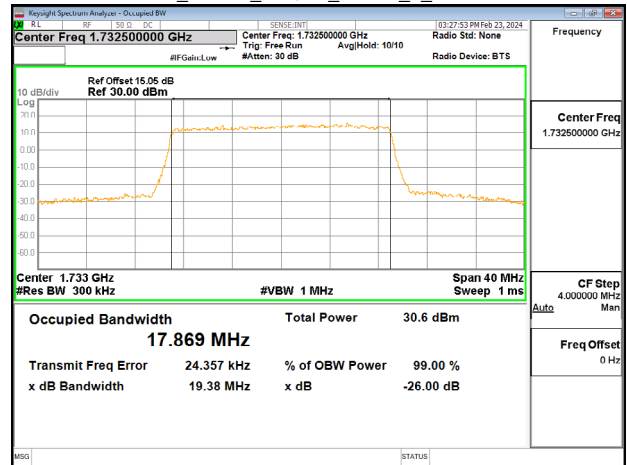
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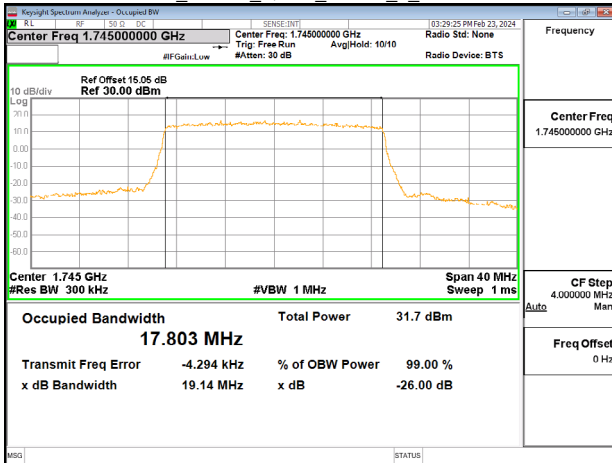
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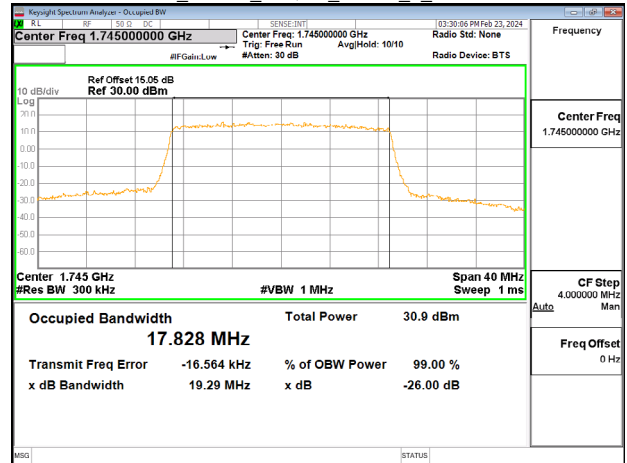
Band4 20MHz 16QAM\_RB100\_0\_CH20175



Band4 20MHz QPSK\_RB100\_0\_CH20300



Band4 20MHz 16QAM\_RB100\_0\_CH20300



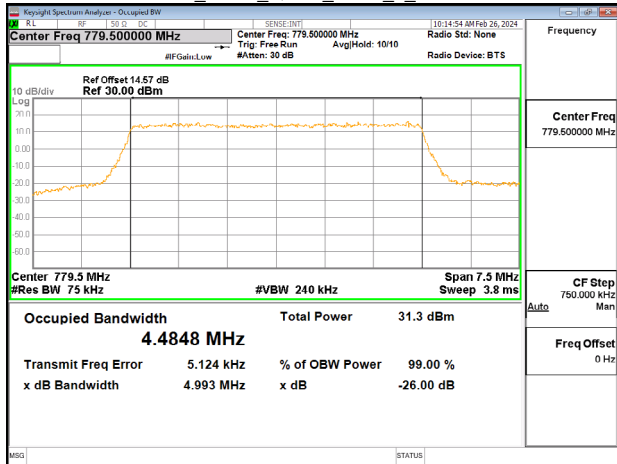
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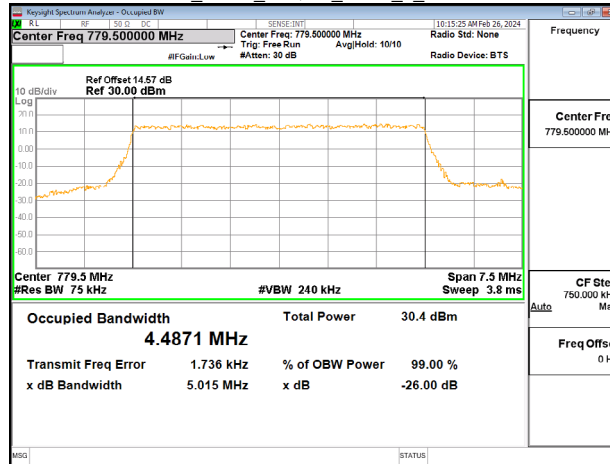
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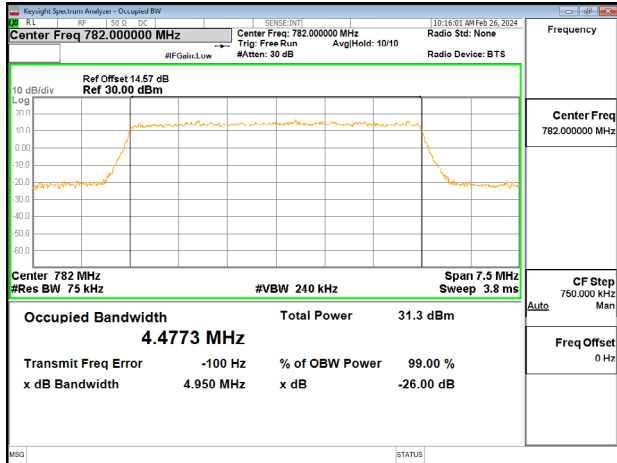
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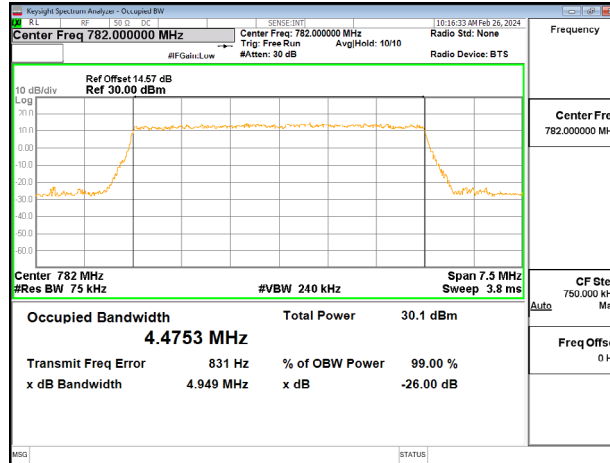
Band13\_5MHz\_16QAM\_RB25\_0\_CH23205



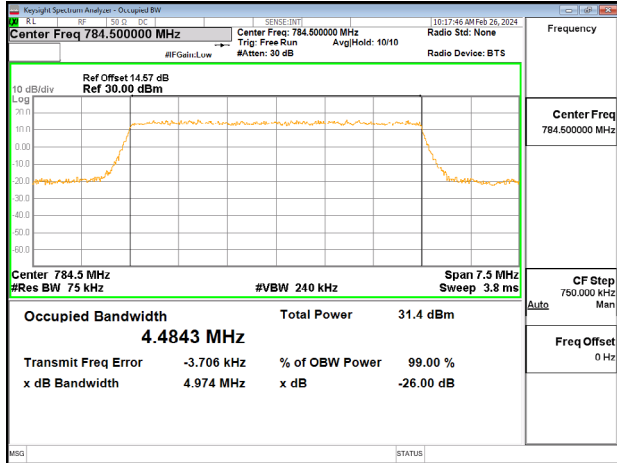
Band13\_5MHz\_QPSK\_RB25\_0\_CH23230



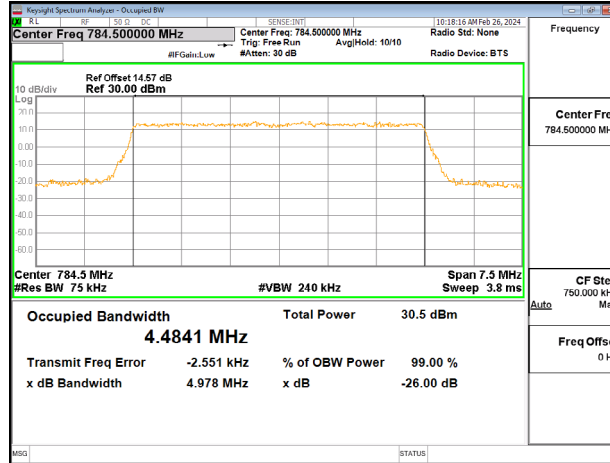
Band13\_5MHz\_16QAM\_RB25\_0\_CH23230



Band13\_5MHz\_QPSK\_RB25\_0\_CH23255



Band13\_5MHz\_16QAM\_RB25\_0\_CH23255

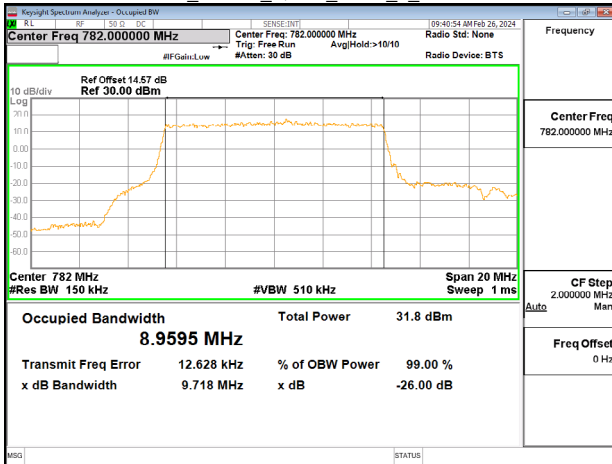


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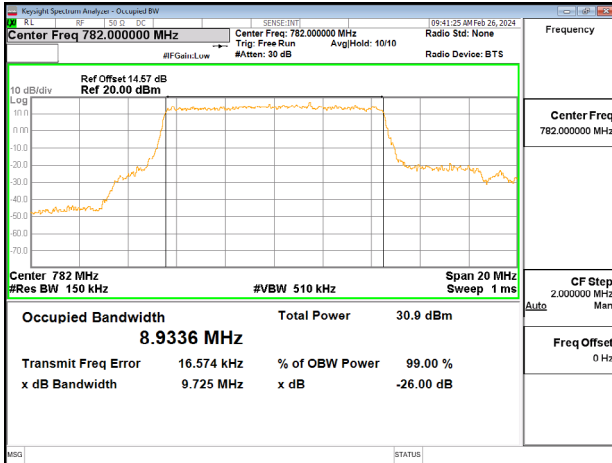
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Band13\_10MHz\_QPSK\_RB50\_0\_CH23230



Band13\_10MHz\_16QAM\_RB50\_0\_CH23230



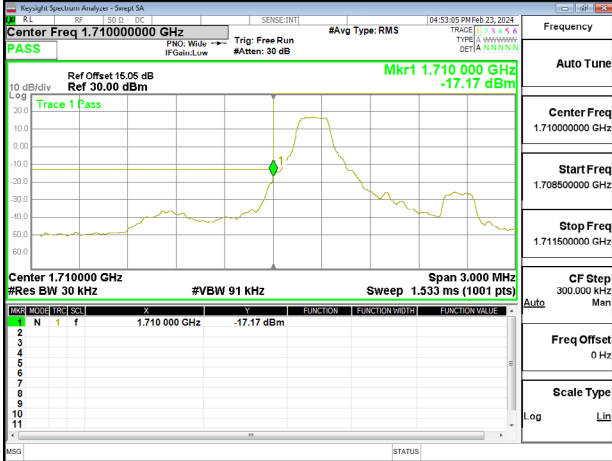
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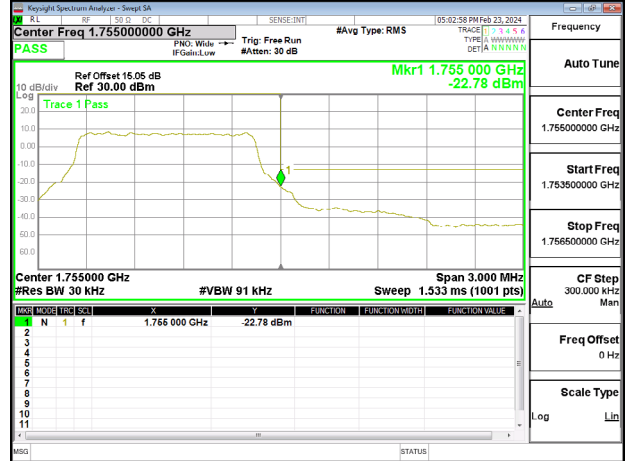
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### 3 OUT OF BAND EMISSION AT ANTENNA TERMINALS

Band Edge\_Band4\_1.4MHz\_QPSK\_RB1\_0\_CH19957



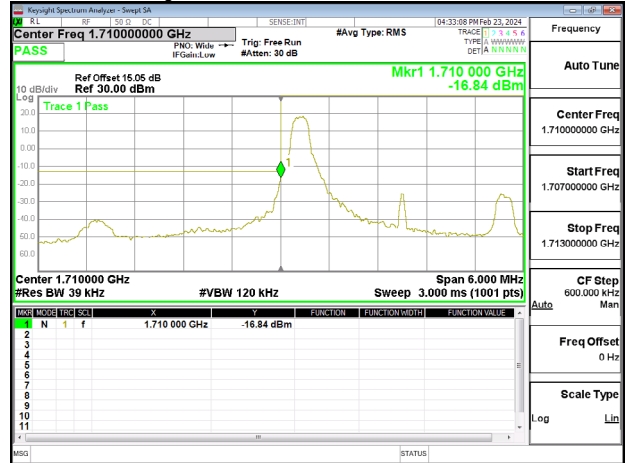
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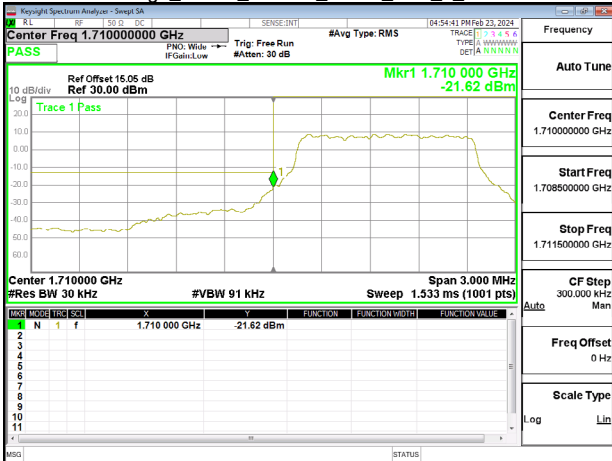
Band Edge\_Band4\_1.4MHz\_QPSK\_RB1\_5\_CH20393



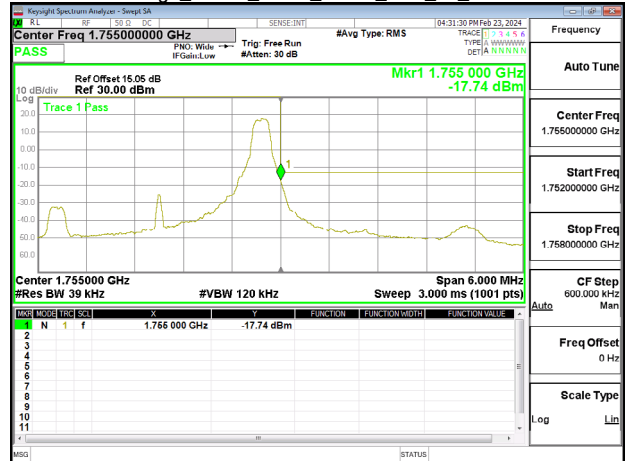
Band Edge\_Band4\_3MHz\_QPSK\_RB1\_0\_CH19965



Band Edge\_Band4\_1.4MHz\_QPSK\_RB6\_0\_CH19957



Band Edge\_Band4\_3MHz\_QPSK\_RB1\_14\_CH20385

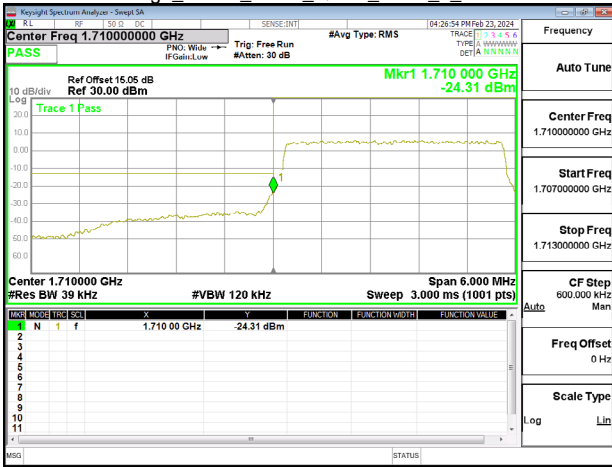


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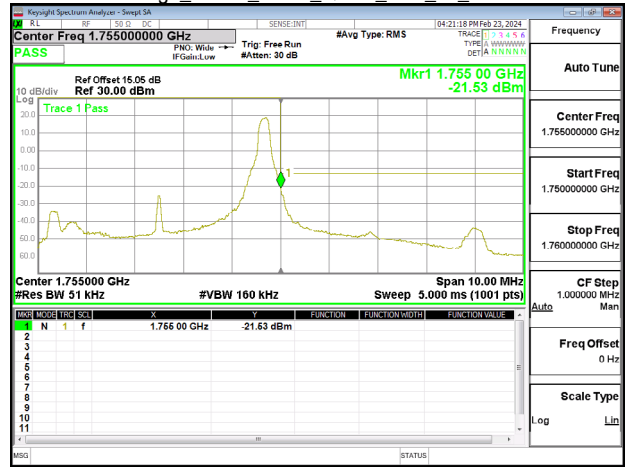
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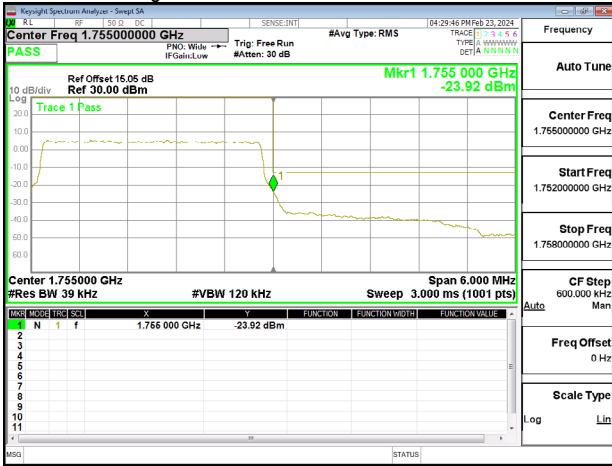
Band Edge\_Band4\_3MHz\_QPSK\_RB15\_0\_CH19965



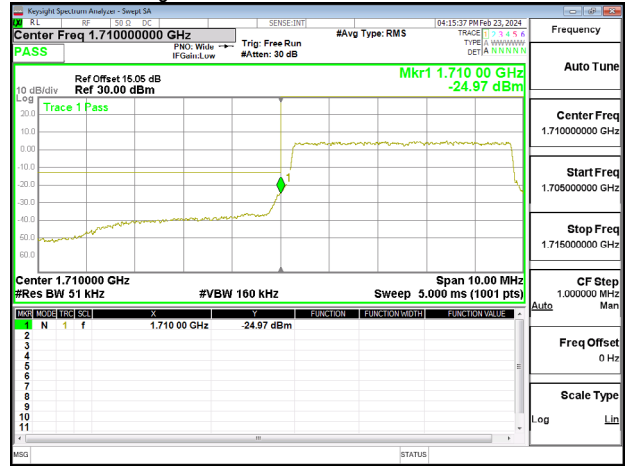
Band Edge\_Band4\_5MHz\_QPSK\_RB1\_24\_CH20375



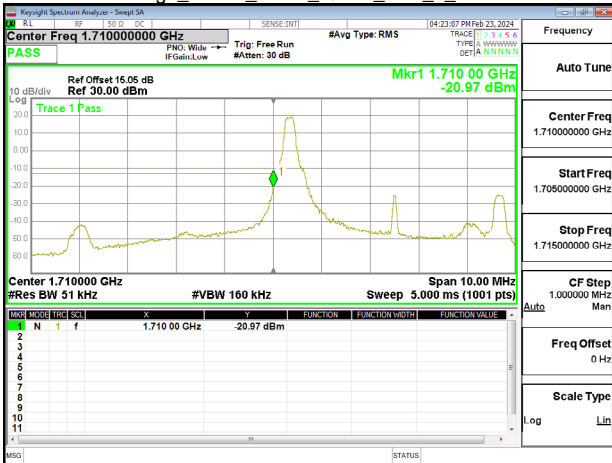
Band Edge\_Band4\_3MHz\_QPSK\_RB15\_0\_CH20385



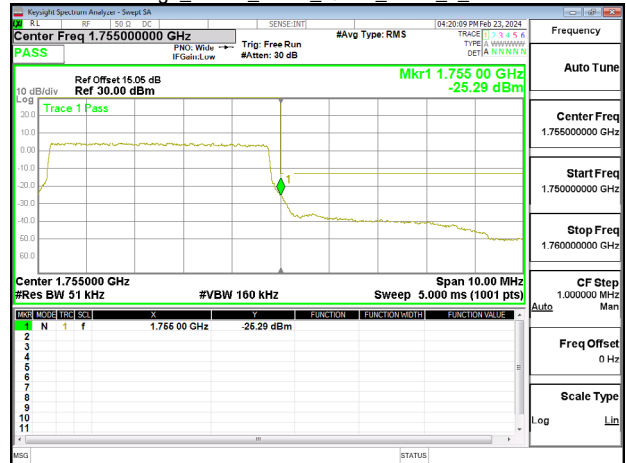
Band Edge\_Band4\_5MHz\_QPSK\_RB25\_0\_CH19975



Band Edge\_Band4\_5MHz\_QPSK\_RB1\_0\_CH19975



Band Edge\_Band4\_5MHz\_QPSK\_RB25\_0\_CH20375

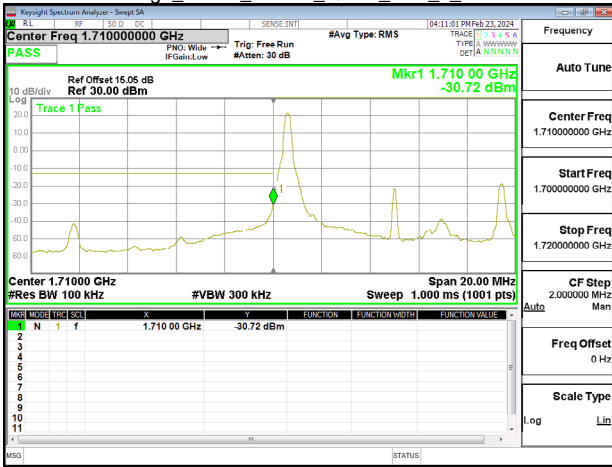


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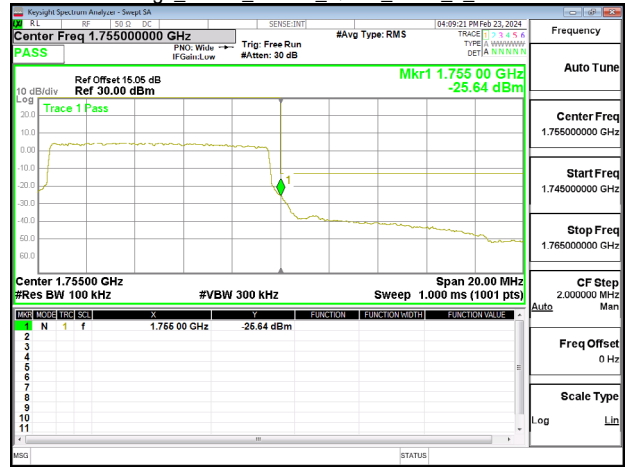
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Band Edge\_Band4\_10MHz\_QPSK\_RB1\_0\_CH20000



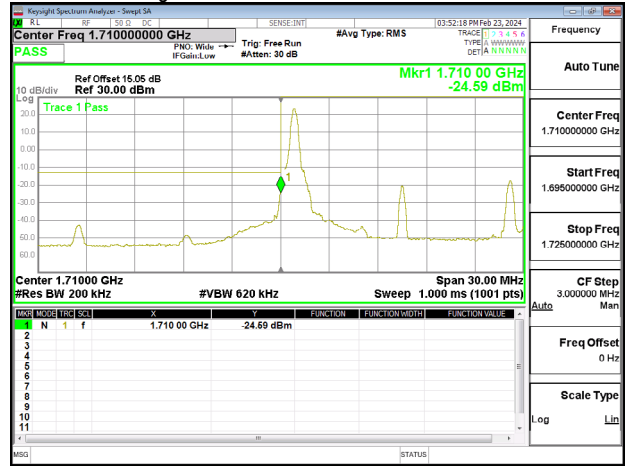
Band Edge\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20350



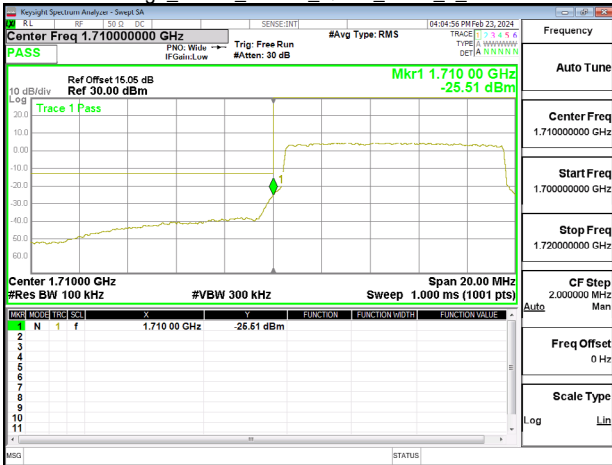
Band Edge\_Band4\_10MHz\_QPSK\_RB1\_49\_CH20350



Band Edge\_Band4\_15MHz\_QPSK\_RB1\_0\_CH20025



Band Edge\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20000



Band Edge\_Band4\_15MHz\_QPSK\_RB1\_74\_CH20325



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