

LTE B48

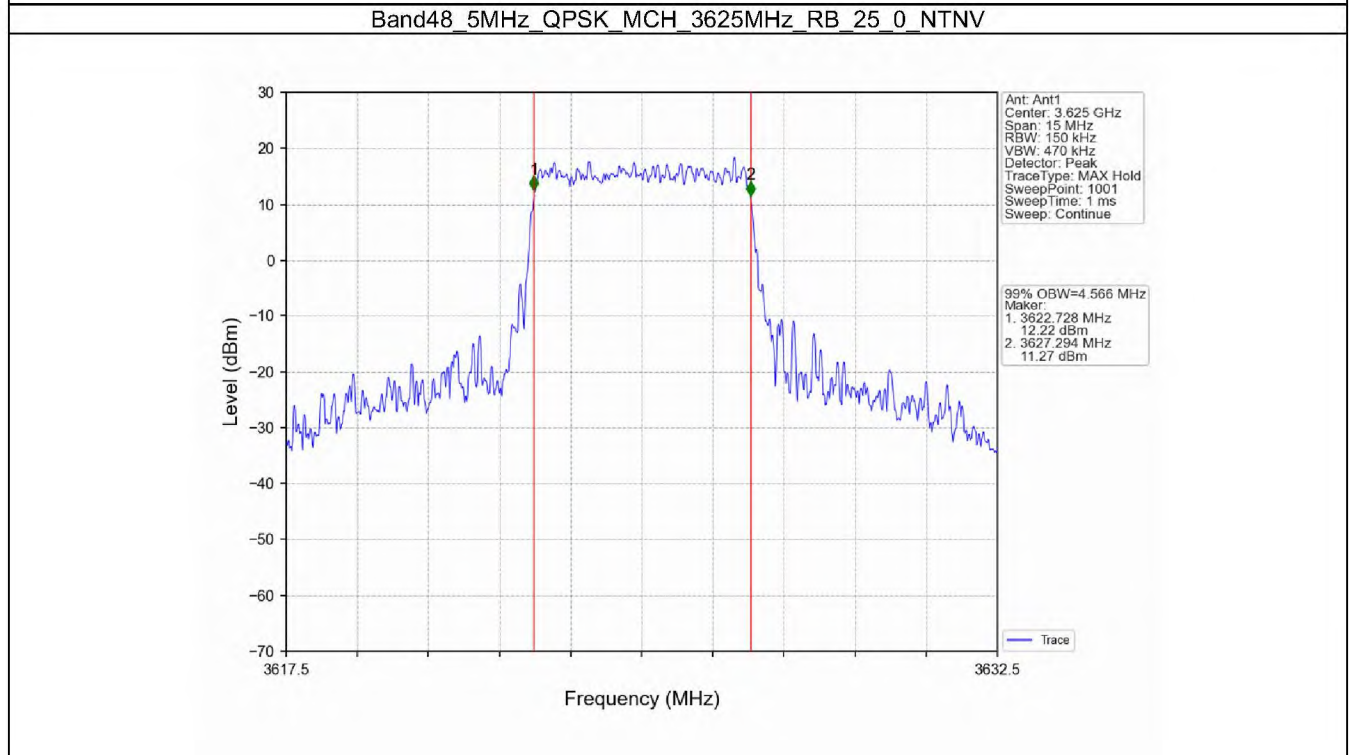
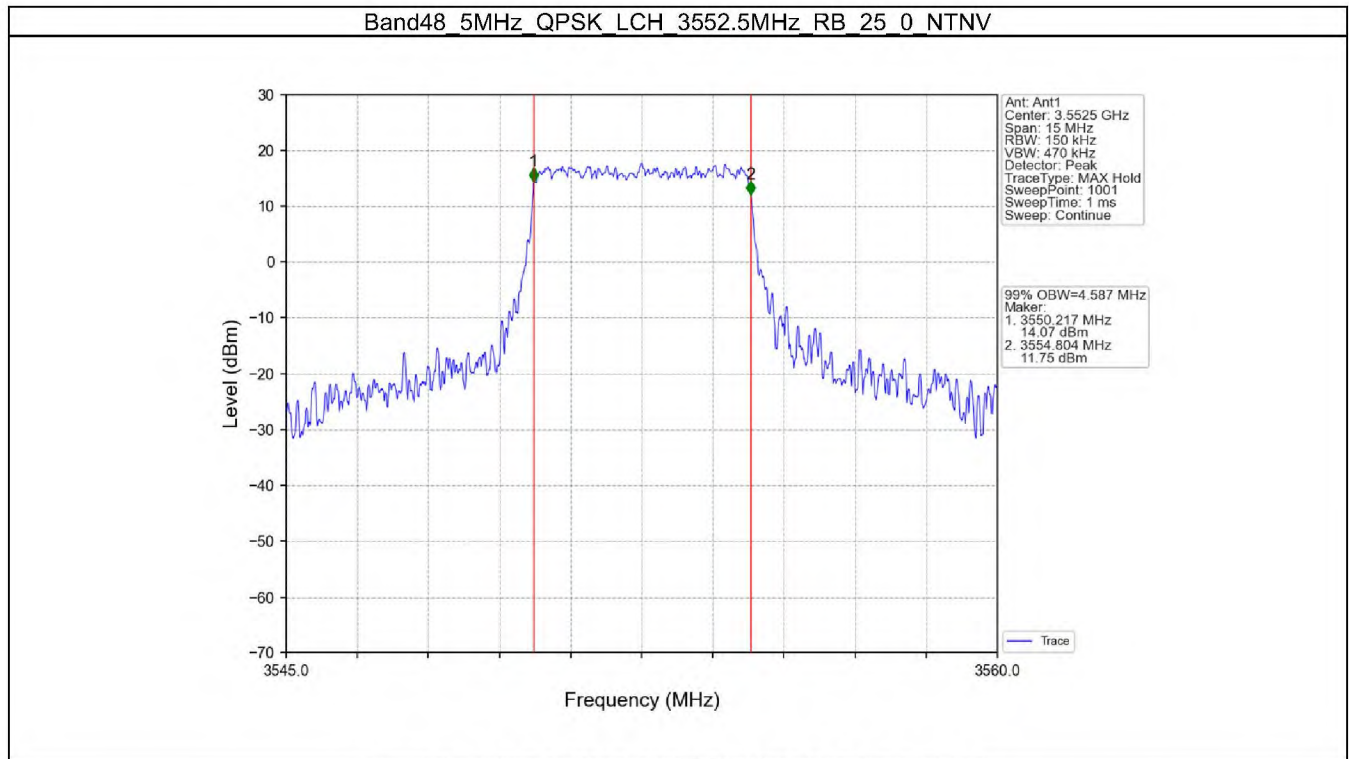
1. 99% & 26dB Bandwidth

1.1 Band48_OBW

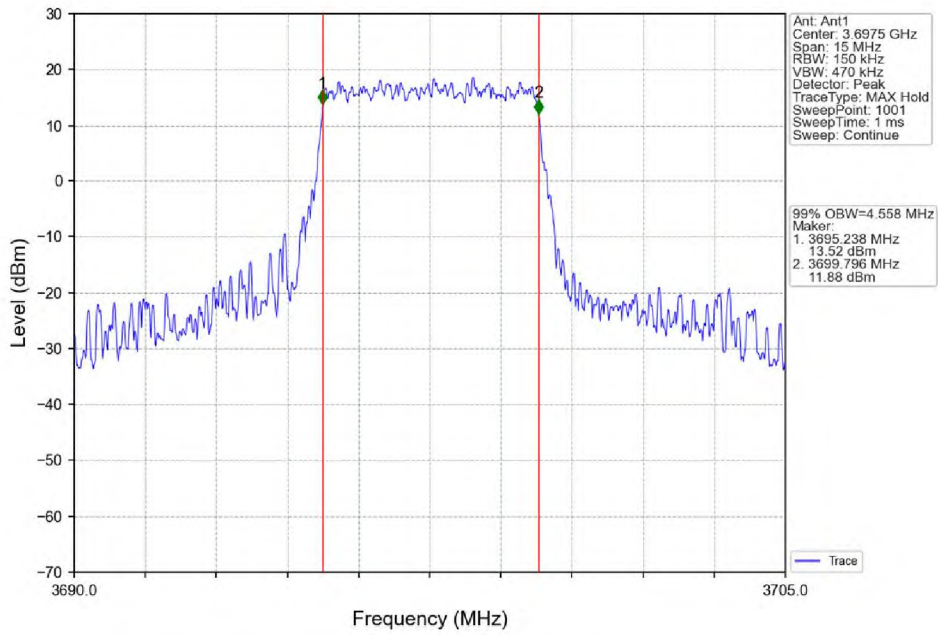
1.1.1 Test Result

Band: 48 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	3552.5	25	0	4.587	Pass
		3625	25	0	4.566	Pass
		3697.5	25	0	4.558	Pass
	16QAM	3552.5	25	0	4.584	Pass
		3625	25	0	4.571	Pass
		3697.5	25	0	4.555	Pass
10	QPSK	3555	50	0	9.116	Pass
		3625	50	0	9.101	Pass
		3695	50	0	9.090	Pass
	16QAM	3555	50	0	9.066	Pass
		3625	50	0	9.099	Pass
		3695	50	0	9.072	Pass
15	QPSK	3557.5	75	0	13.627	Pass
		3625	75	0	13.617	Pass
		3692.5	75	0	13.677	Pass
	16QAM	3557.5	75	0	13.645	Pass
		3625	75	0	13.584	Pass
		3692.5	75	0	13.623	Pass
20	QPSK	3560	100	0	18.125	Pass
		3625	100	0	18.118	Pass
		3690	100	0	18.100	Pass
	16QAM	3560	100	0	18.119	Pass
		3625	100	0	18.044	Pass
		3690	100	0	18.077	Pass

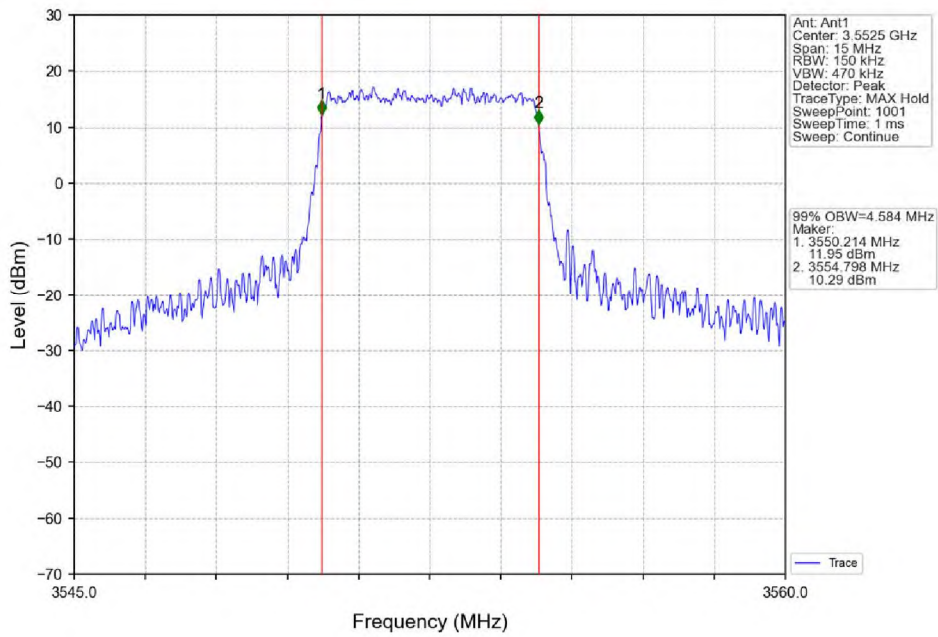
1.1.2 Test Graph



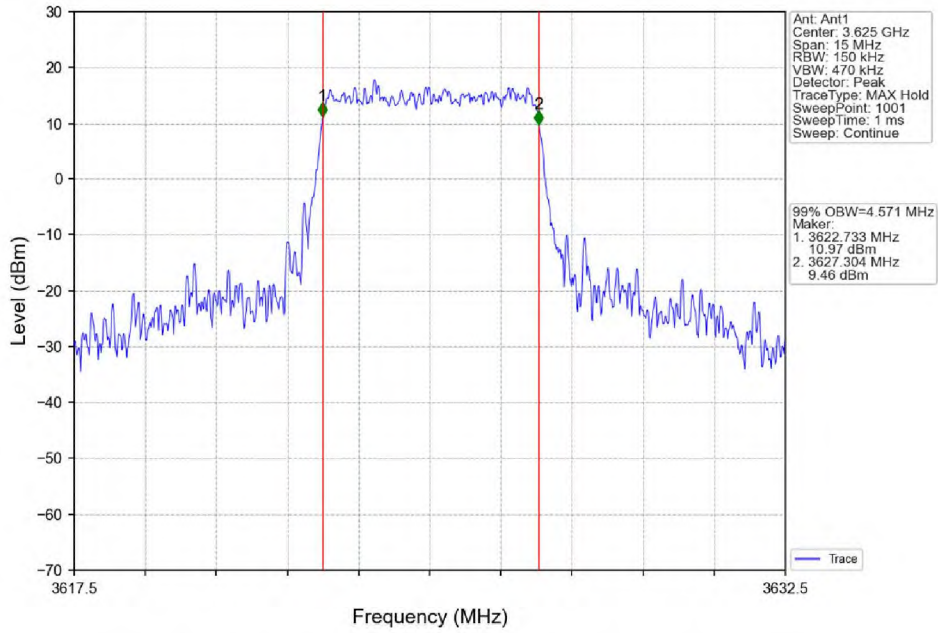
Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTV



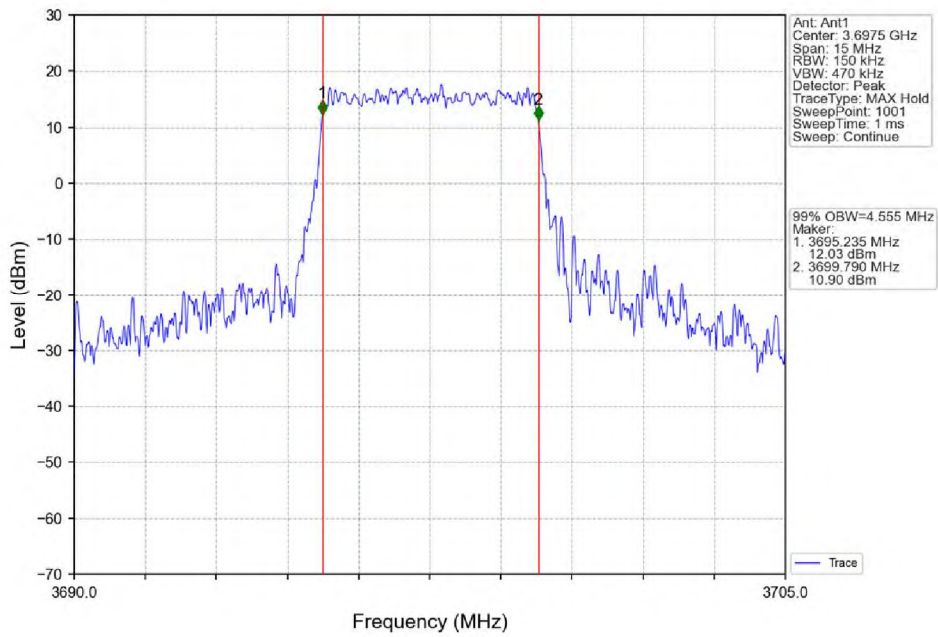
Band48 5MHz 16QAM LCH 3552.5MHz RB 25 0 NTV



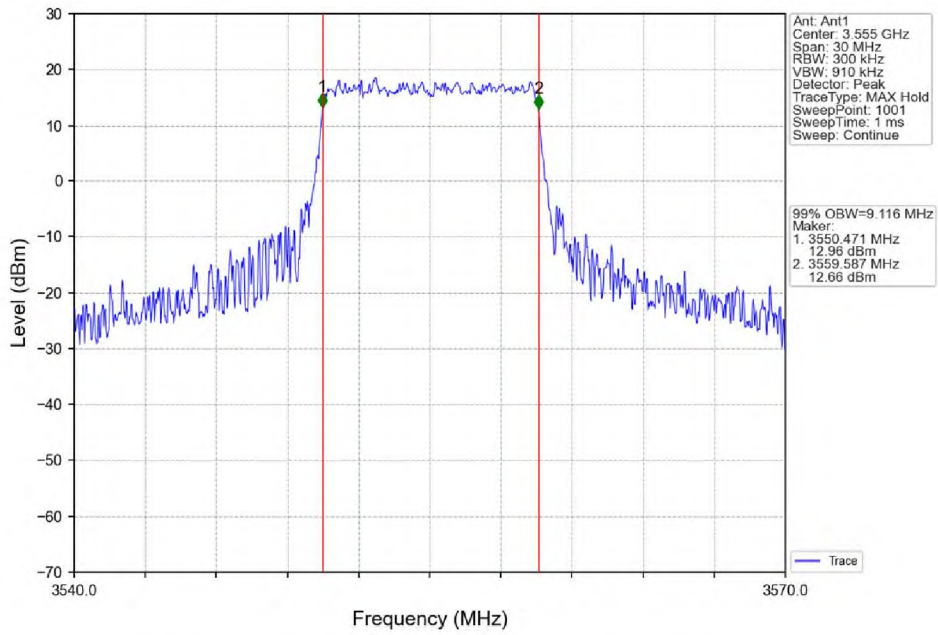
Band48 5MHz 16QAM MCH 3625MHz RB 25 0 NTNV



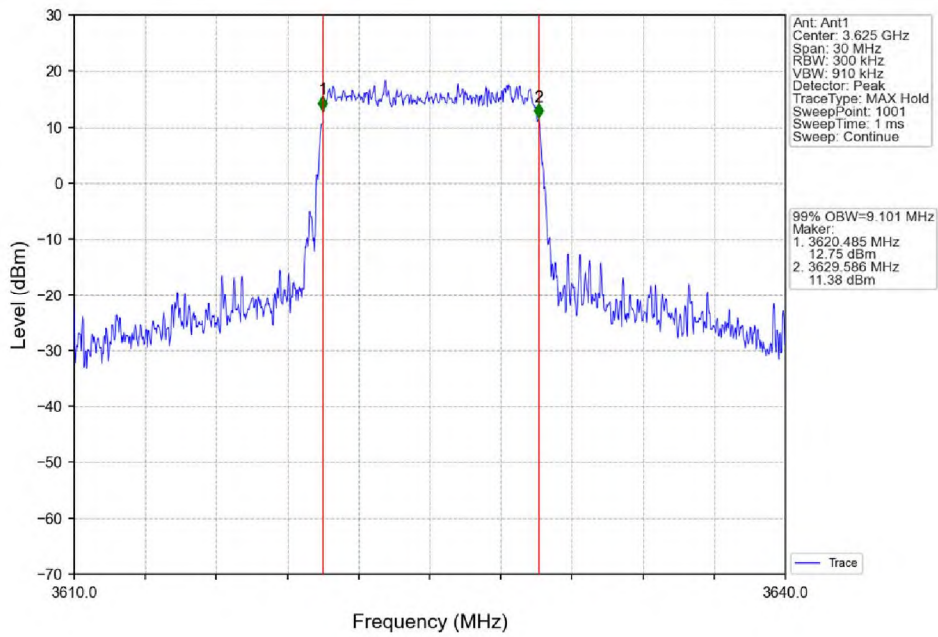
Band48 5MHz 16QAM HCH 3697.5MHz RB 25 0 NTNV



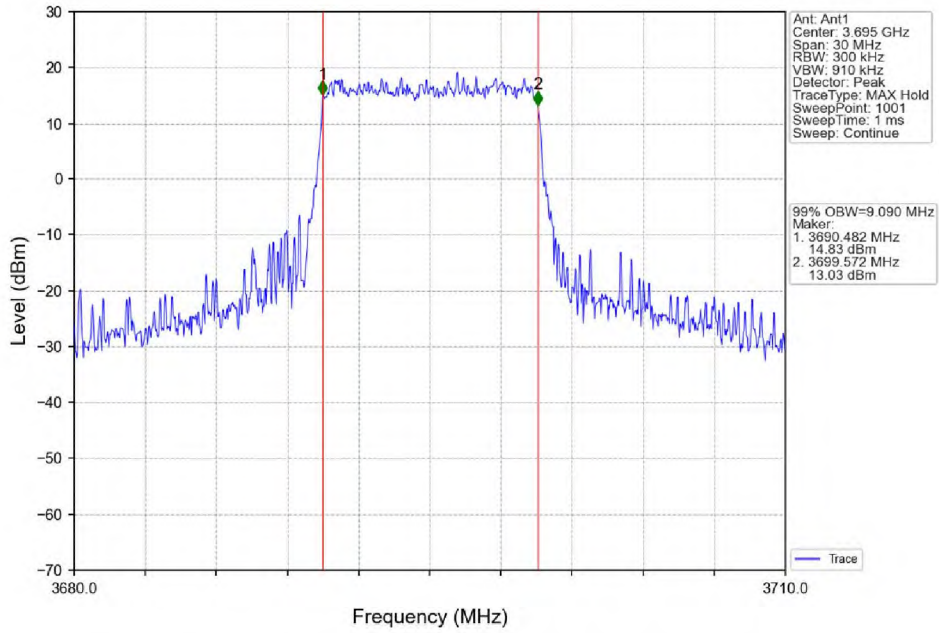
Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



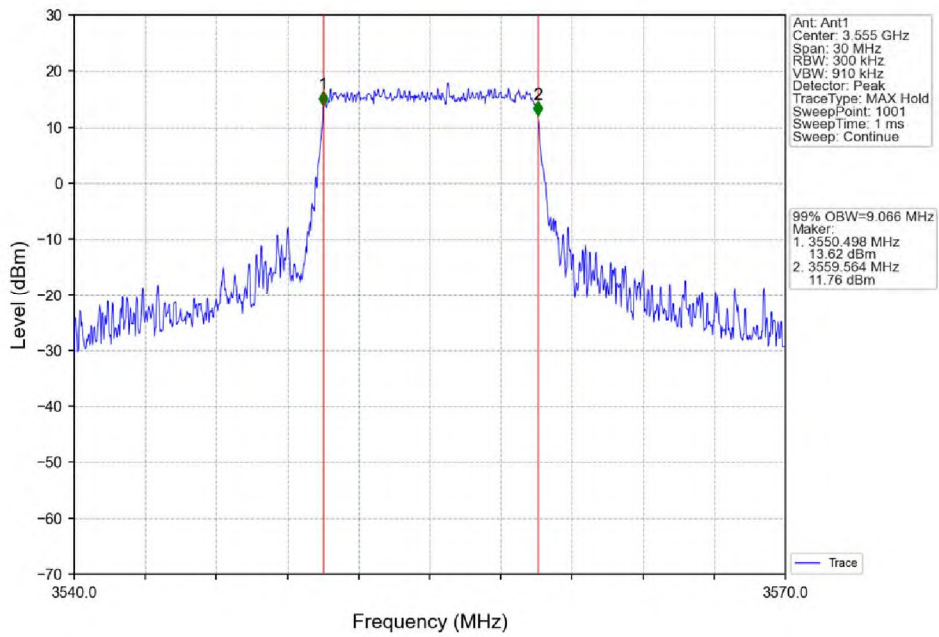
Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



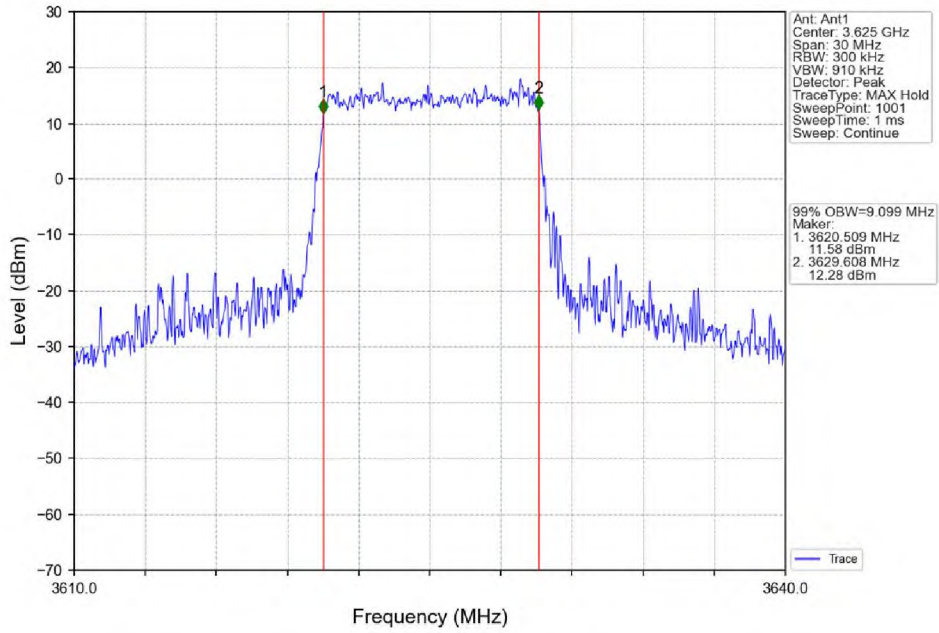
Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



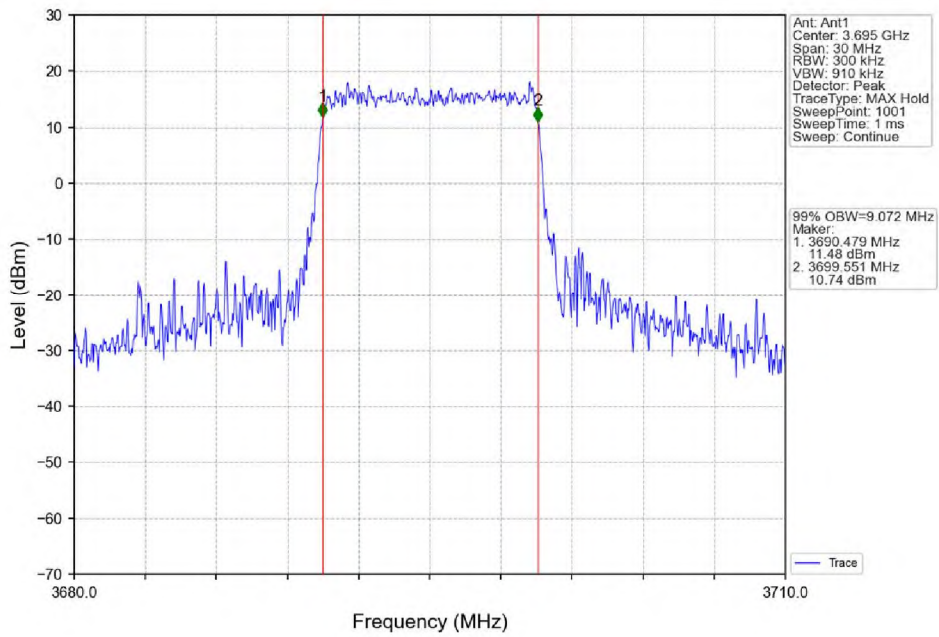
Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



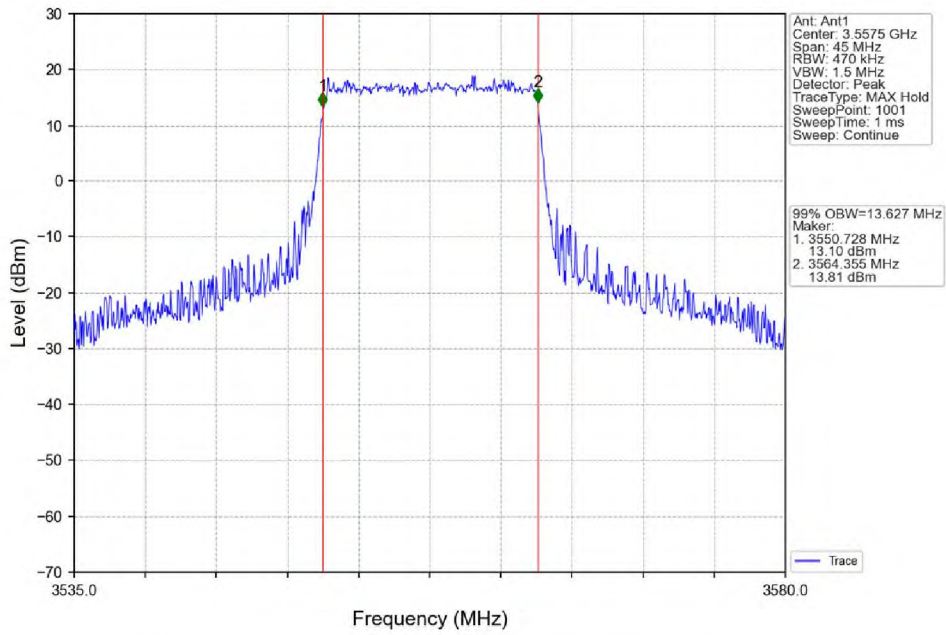
Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV



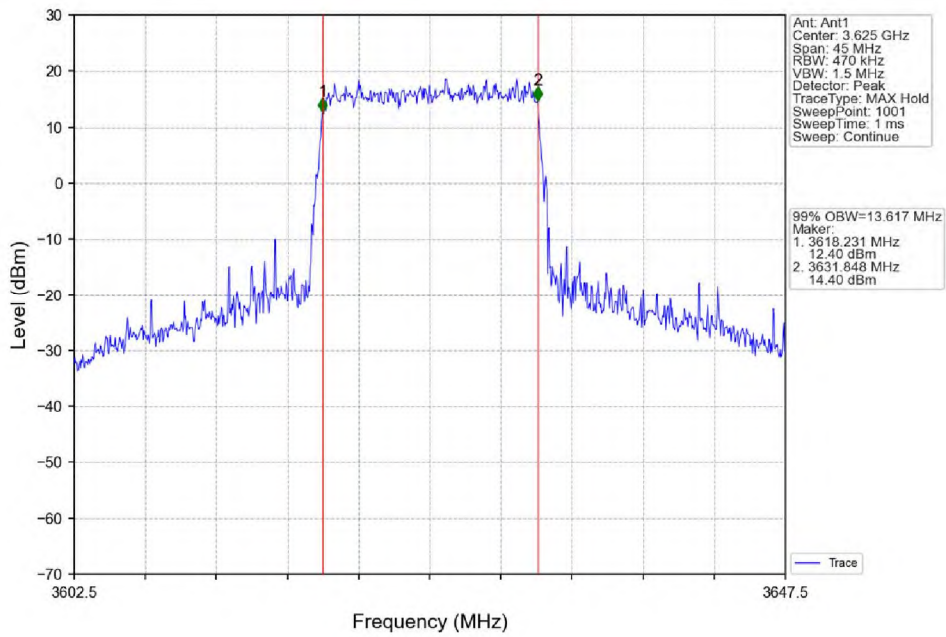
Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV



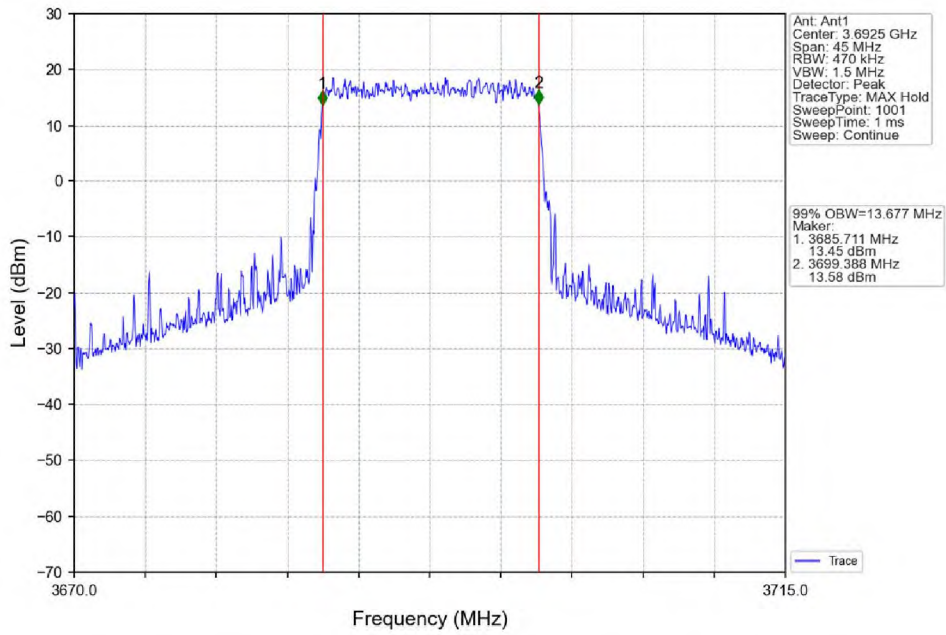
Band48_15MHz_QPSK_LCH_3557.5MHz_RB_75_0_NTNV



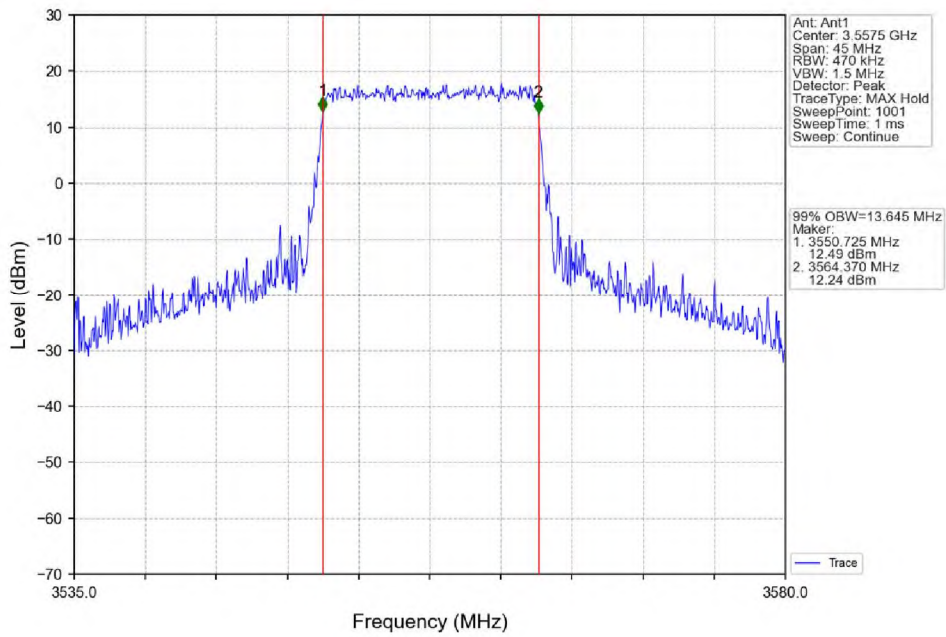
Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



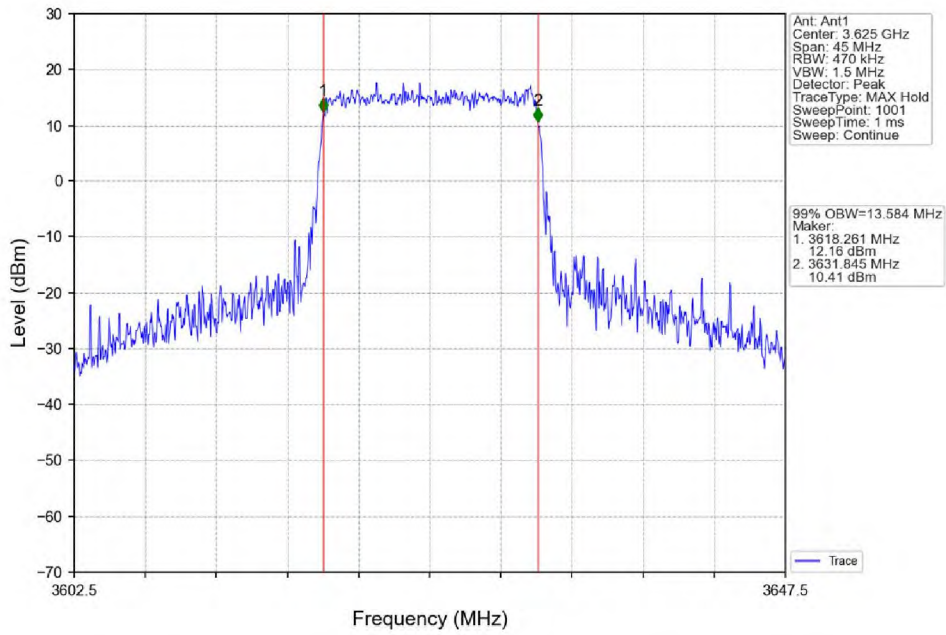
Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



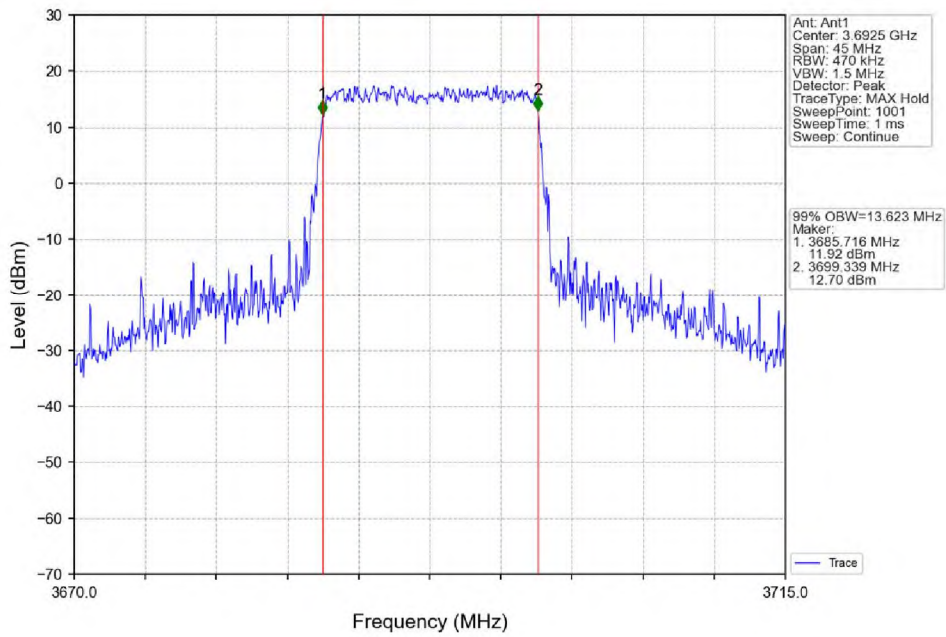
Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



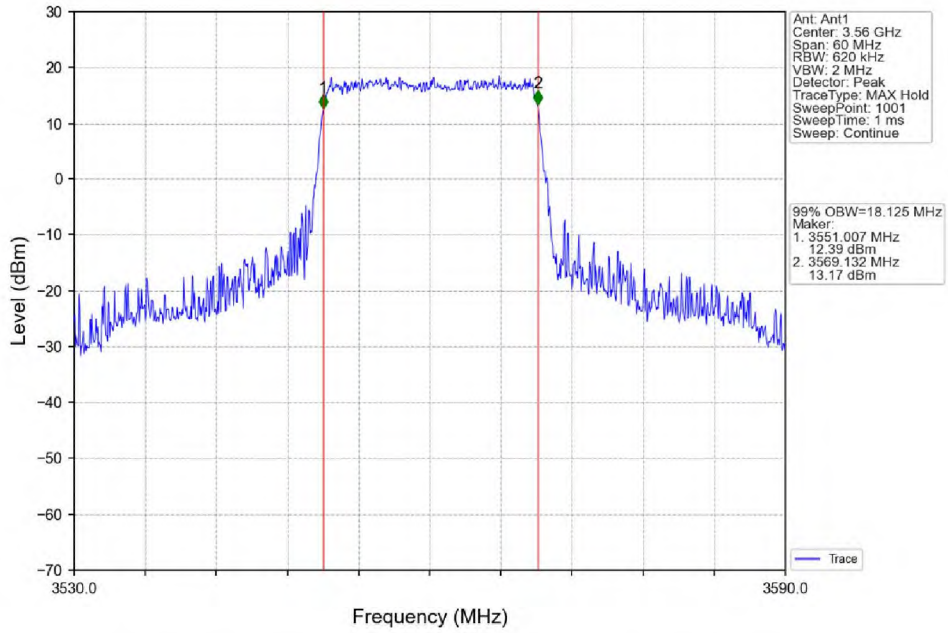
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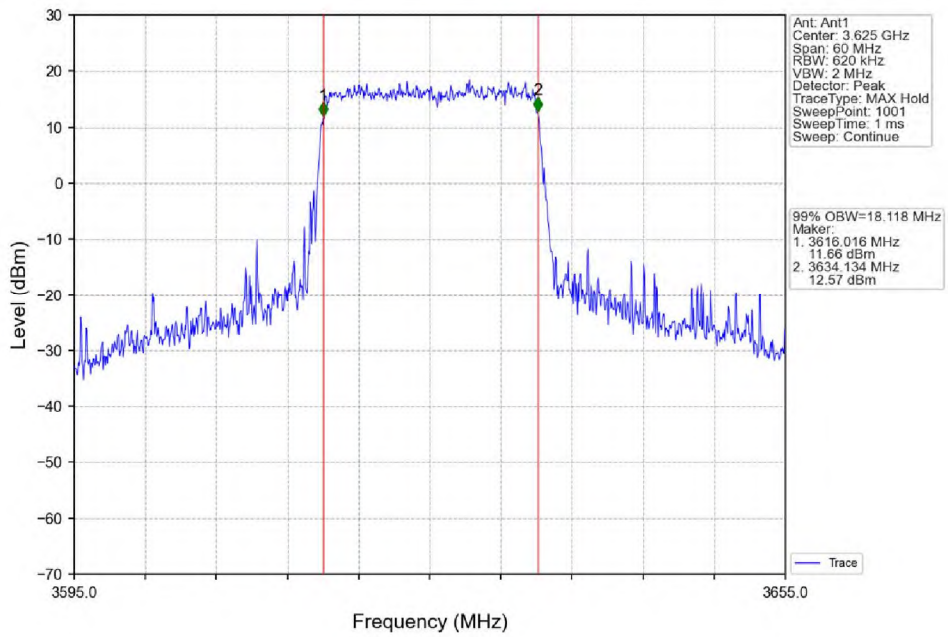
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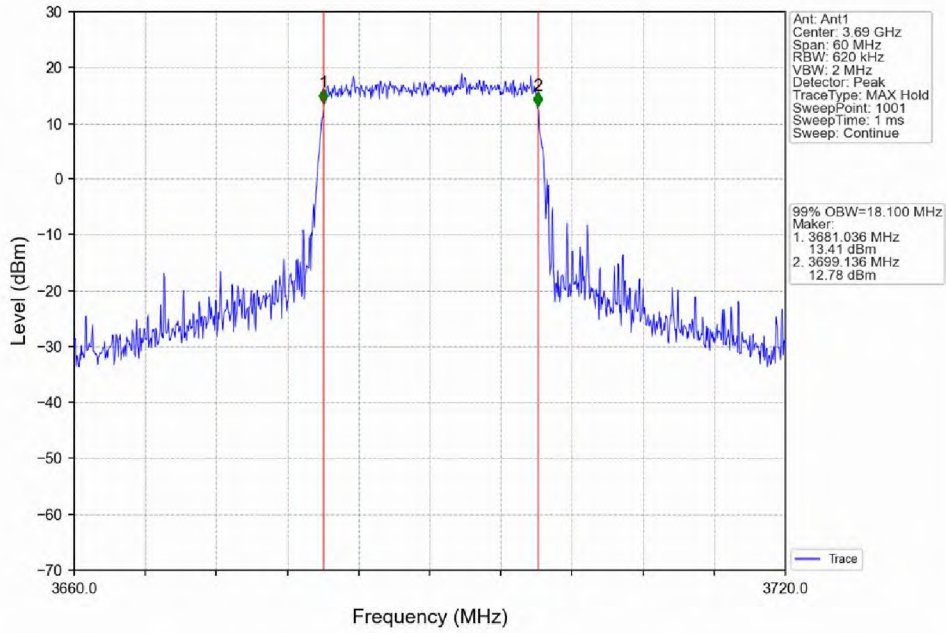
Band48 20MHz QPSK LCH_3560MHz_RB_100_0_NTNV



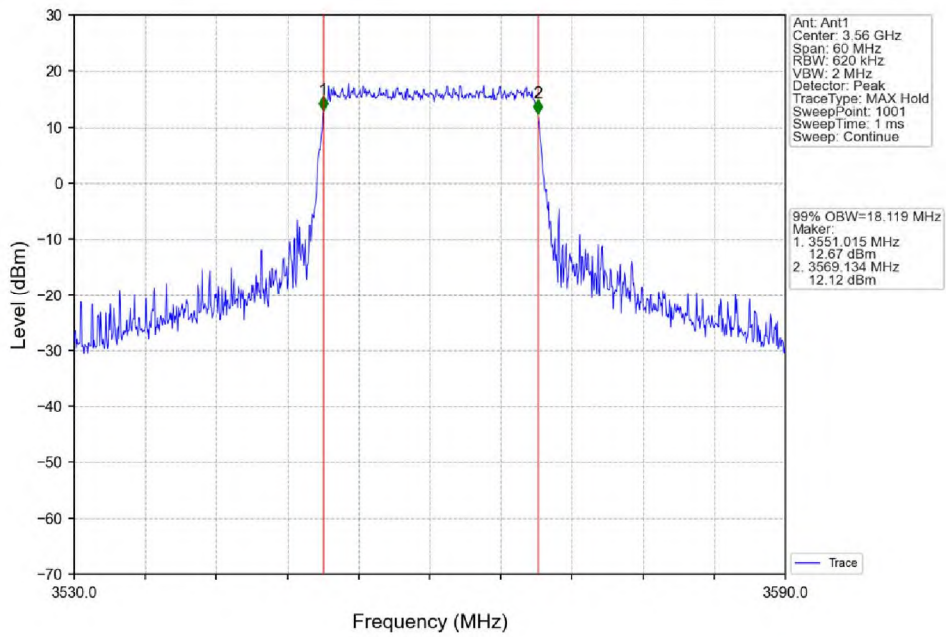
Band48 20MHz QPSK MCH_3625MHz_RB_100_0_NTNV



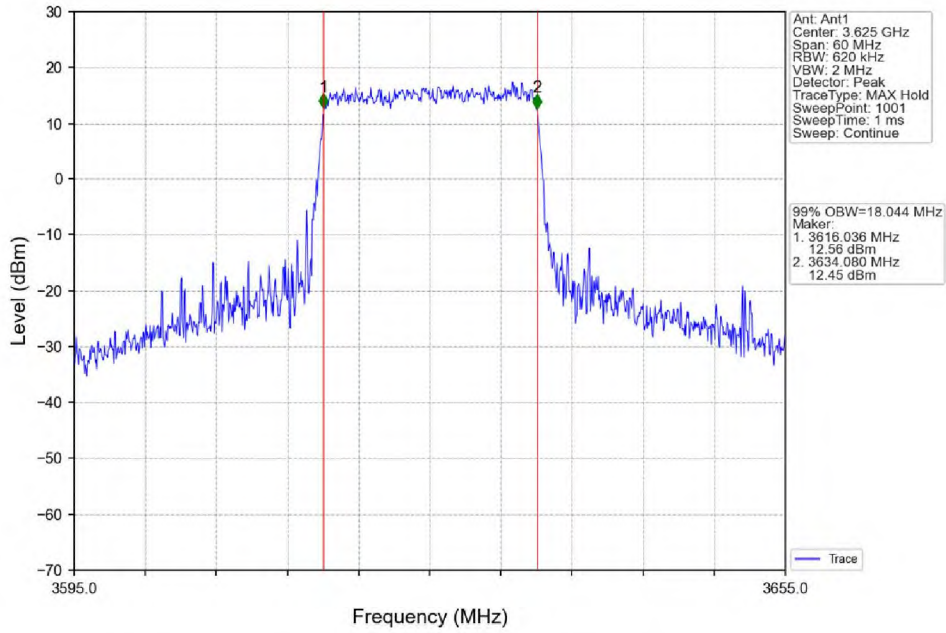
Band48 20MHz QPSK HCH 3690MHz RB 100_0_NTNV



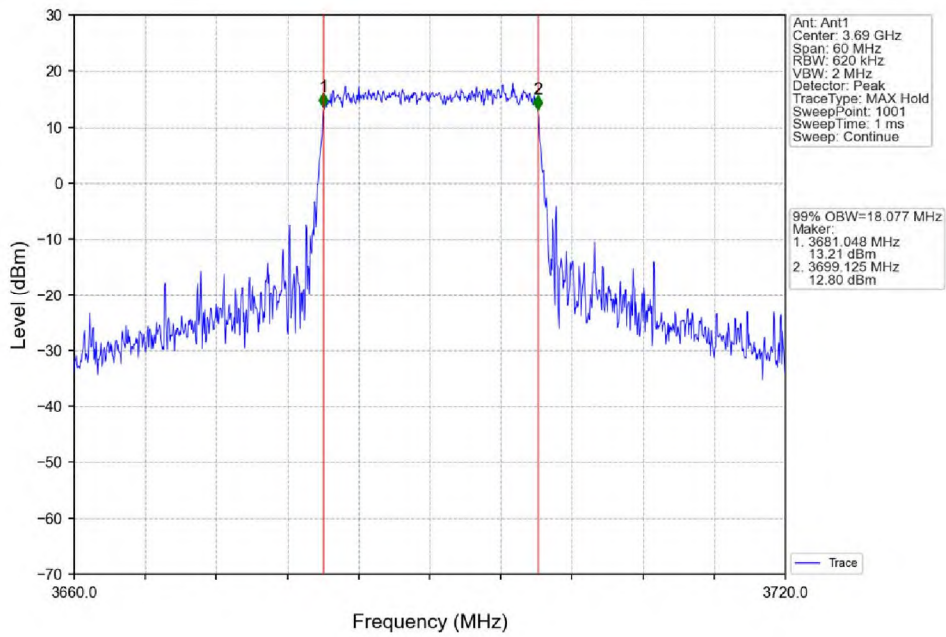
Band48 20MHz 16QAM LCH 3560MHz RB 100_0_NTNV



Band48_20MHz_16QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV

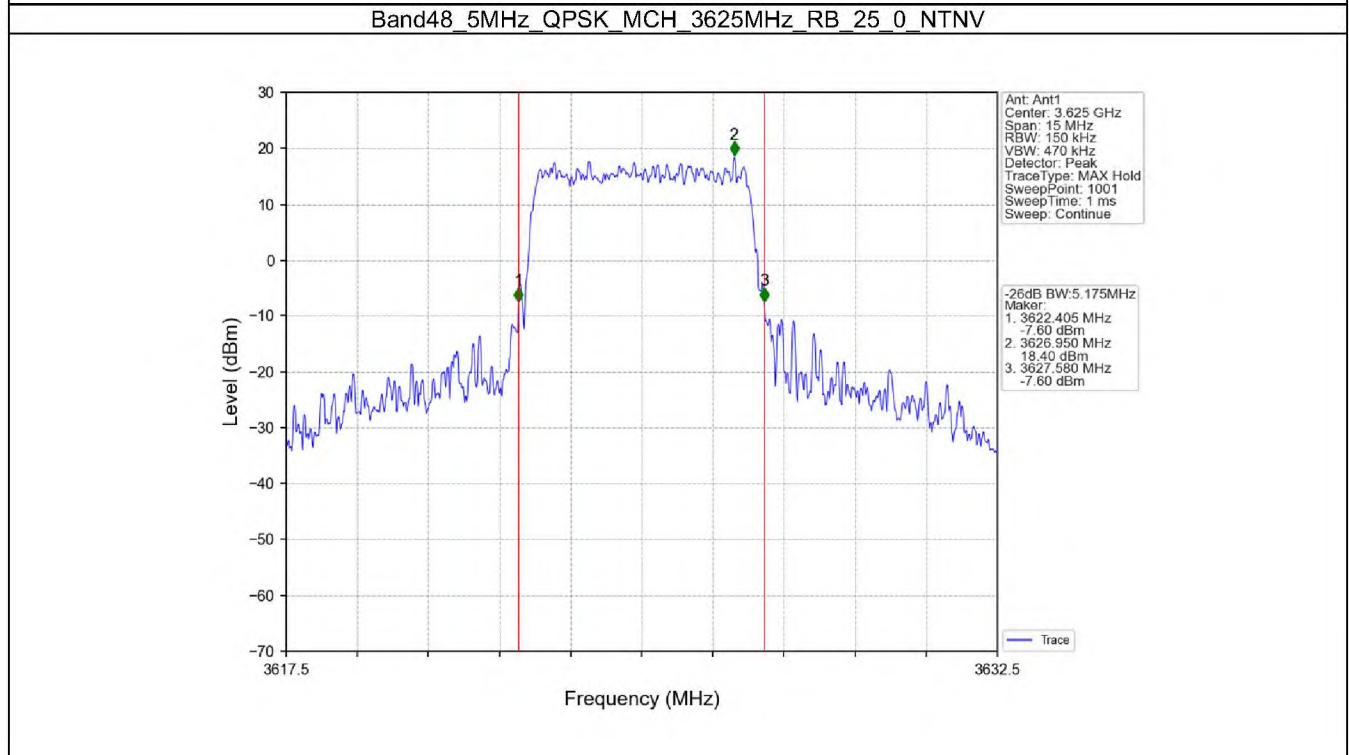
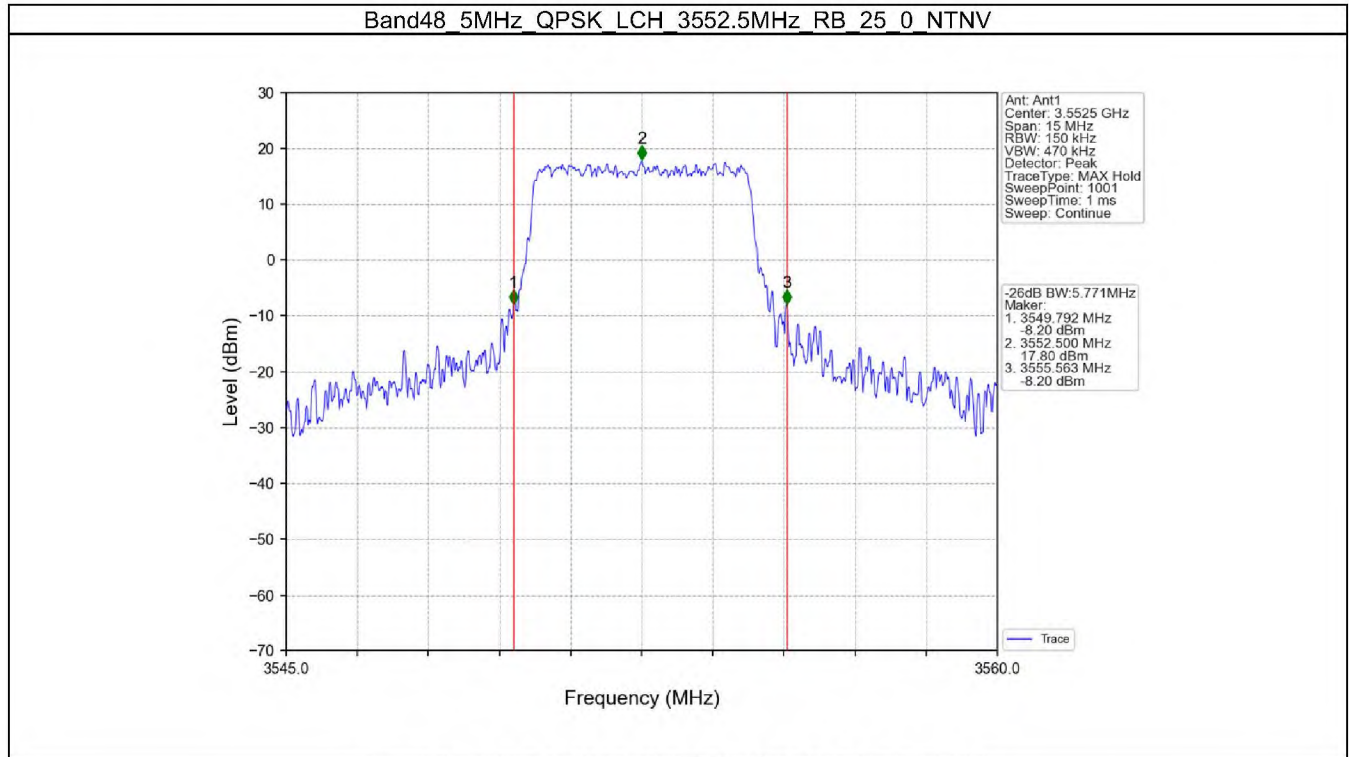


1.2 Band48_XDB

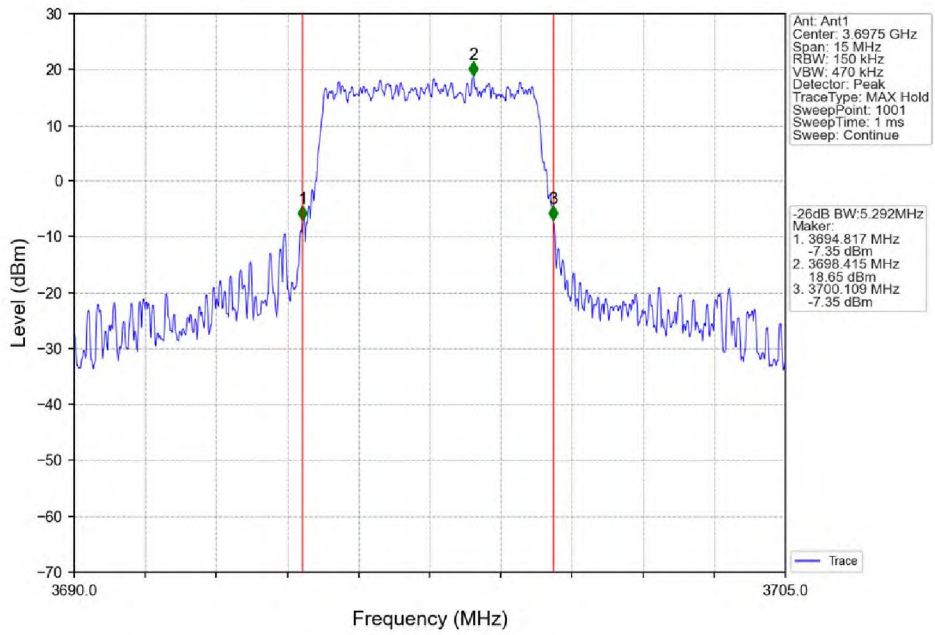
1.2.1 Test Result

Band: 48 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	3552.5	25	0	5.771	Pass
		3625	25	0	5.175	Pass
		3697.5	25	0	5.292	Pass
	16QAM	3552.5	25	0	5.513	Pass
		3625	25	0	5.258	Pass
		3697.5	25	0	5.455	Pass
10	QPSK	3555	50	0	11.091	Pass
		3625	50	0	10.038	Pass
		3695	50	0	10.634	Pass
	16QAM	3555	50	0	11.844	Pass
		3625	50	0	10.201	Pass
		3695	50	0	9.962	Pass
15	QPSK	3557.5	75	0	16.163	Pass
		3625	75	0	14.933	Pass
		3692.5	75	0	15.486	Pass
	16QAM	3557.5	75	0	17.636	Pass
		3625	75	0	15.143	Pass
		3692.5	75	0	15.538	Pass
20	QPSK	3560	100	0	22.219	Pass
		3625	100	0	20.164	Pass
		3690	100	0	20.262	Pass
	16QAM	3560	100	0	22.140	Pass
		3625	100	0	20.389	Pass
		3690	100	0	22.558	Pass

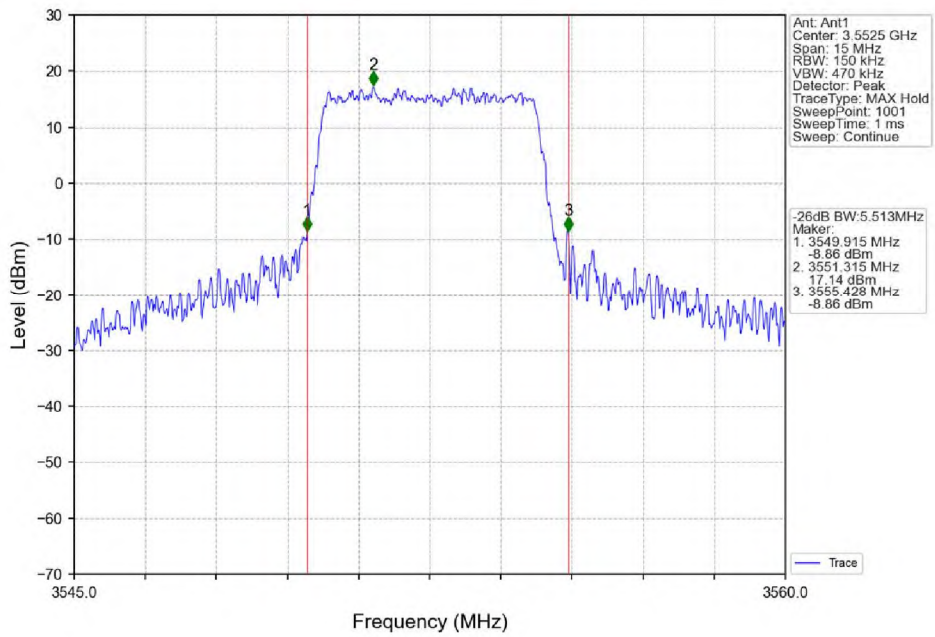
1.2.2 Test Graph



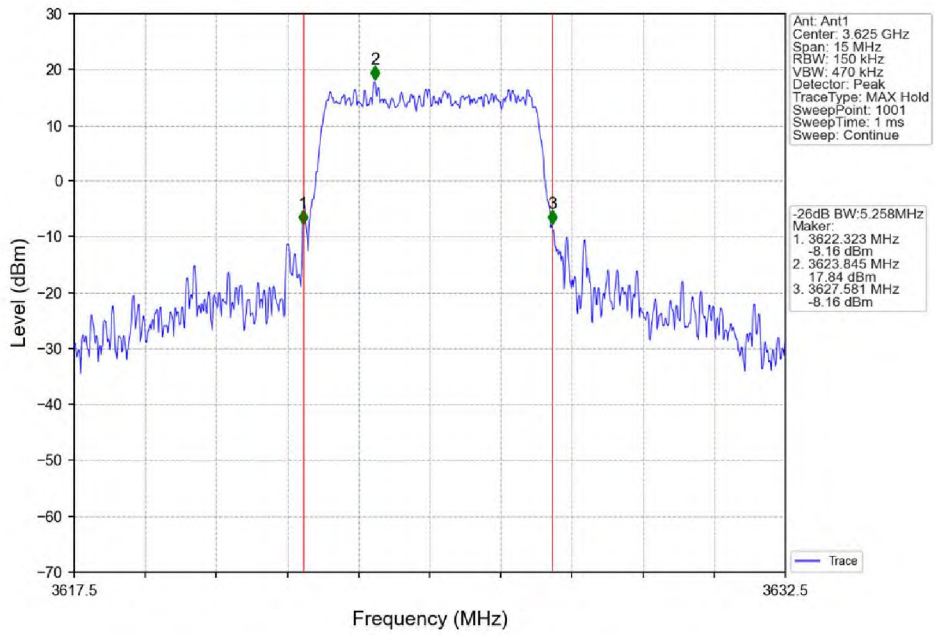
Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTV



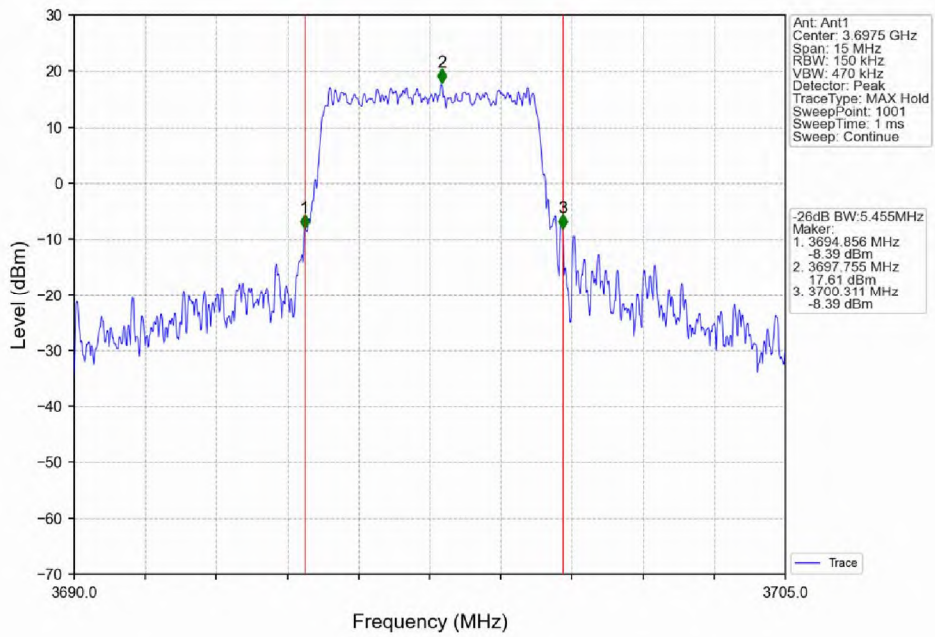
Band48 5MHz 16QAM LCH 3552.5MHz RB 25 0 NTV



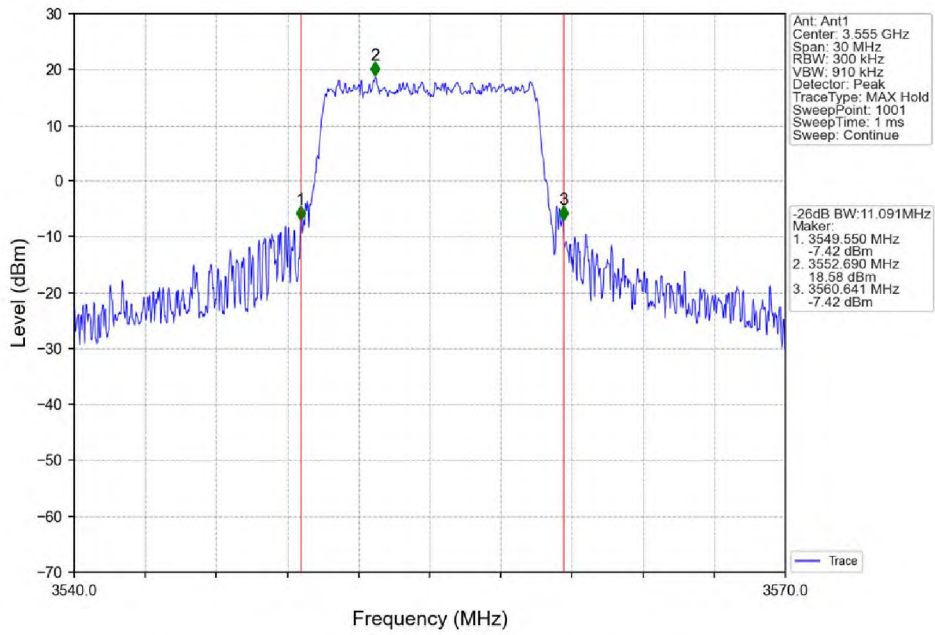
Band48 5MHz 16QAM MCH 3625MHz RB 25 0 NTV



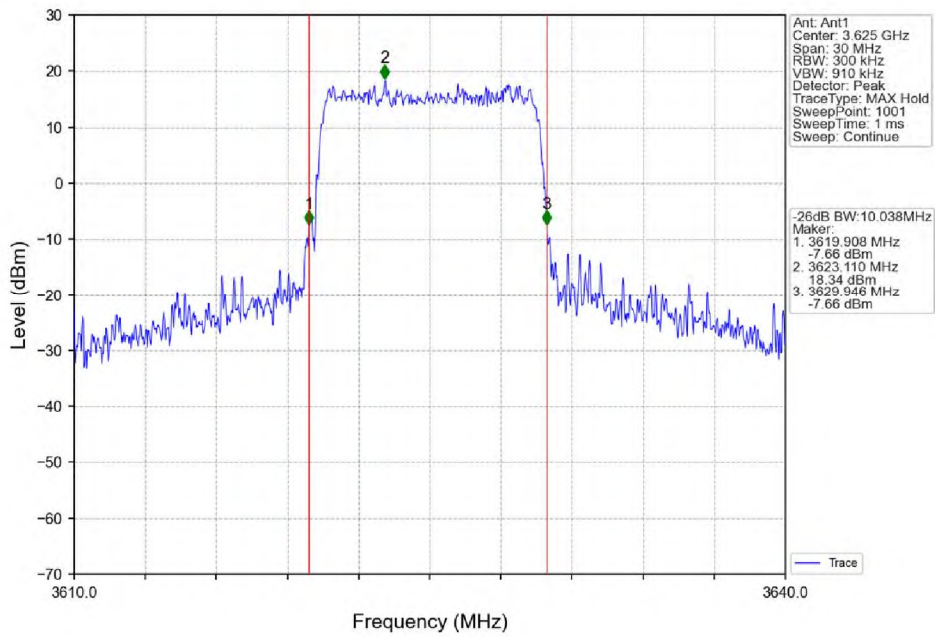
Band48 5MHz 16QAM HCH 3697.5MHz RB 25 0 NTV



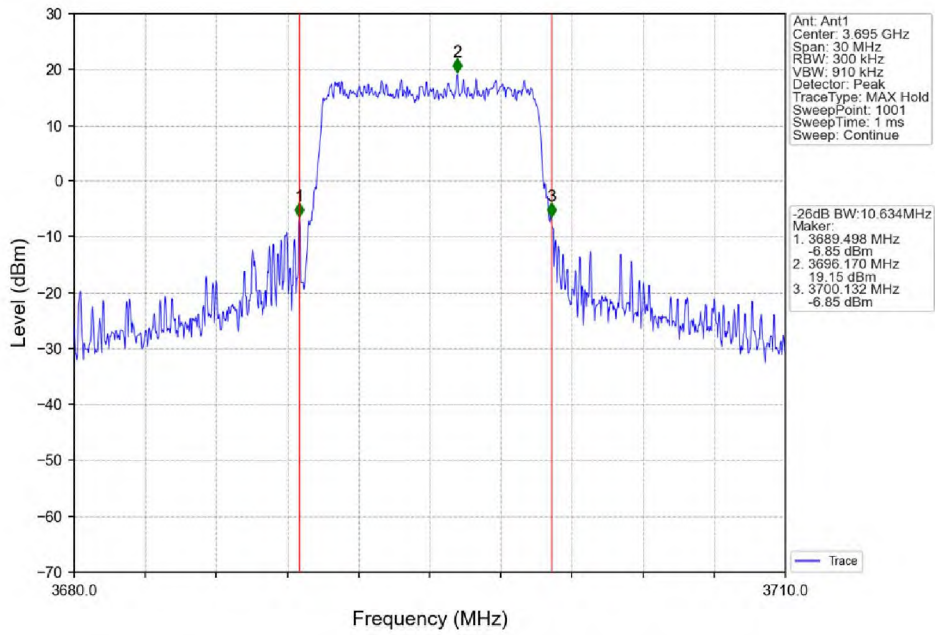
Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



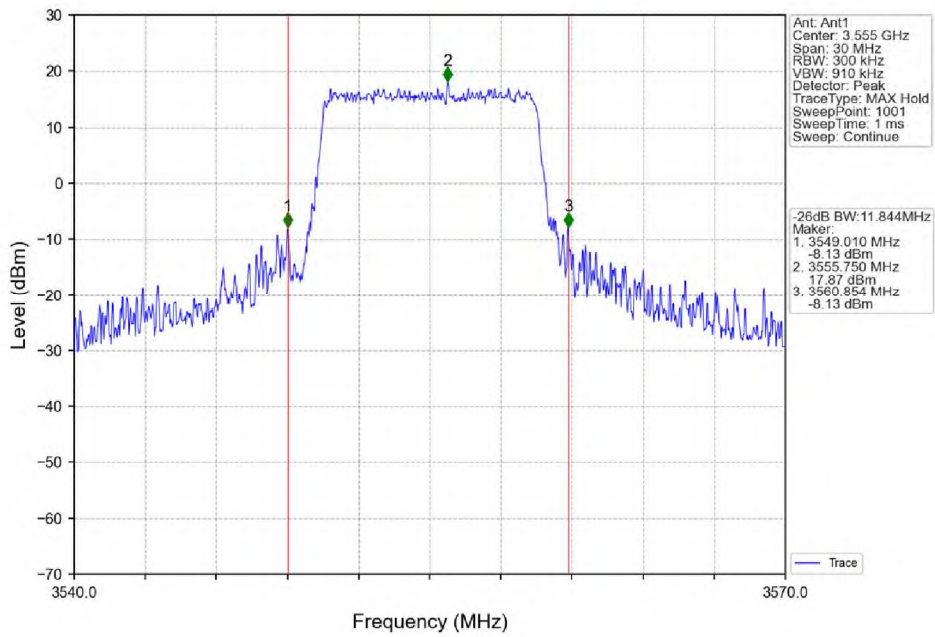
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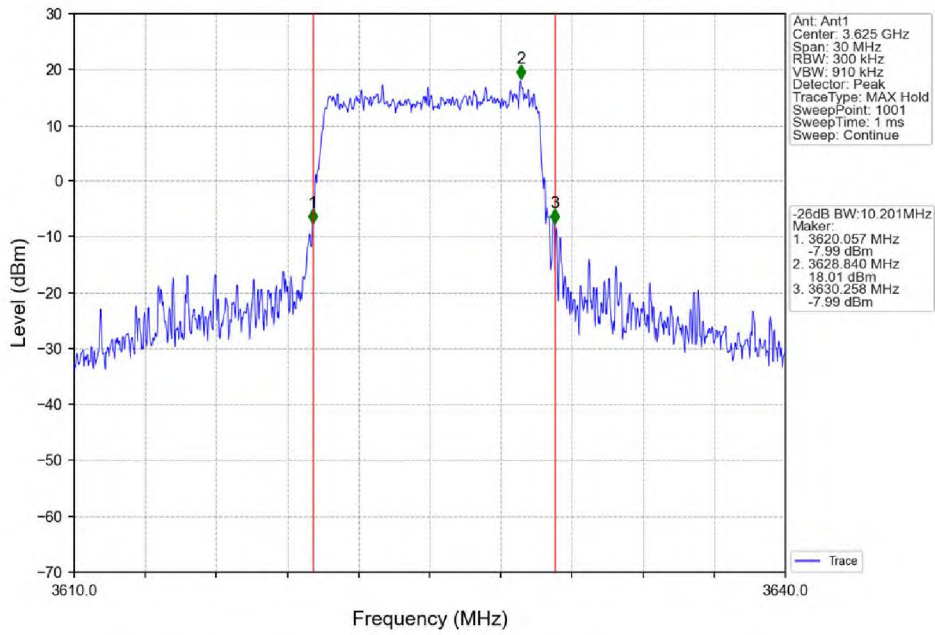
Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



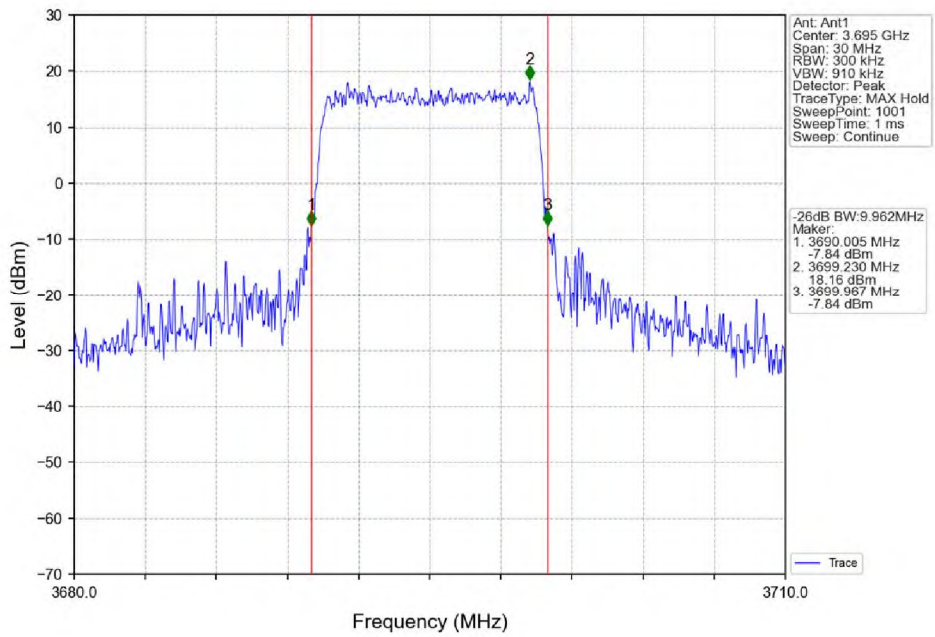
Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



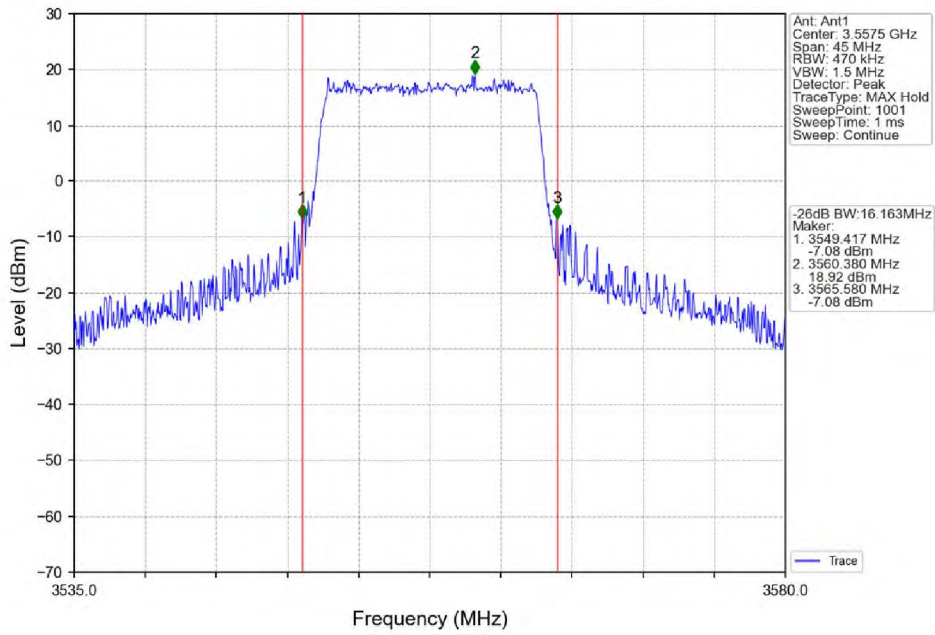
Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV



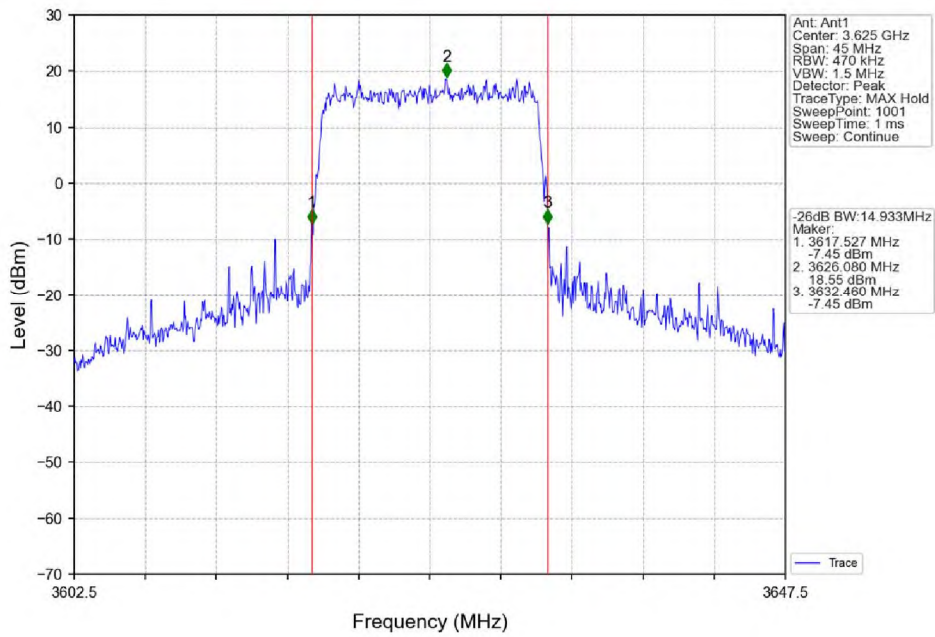
Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV



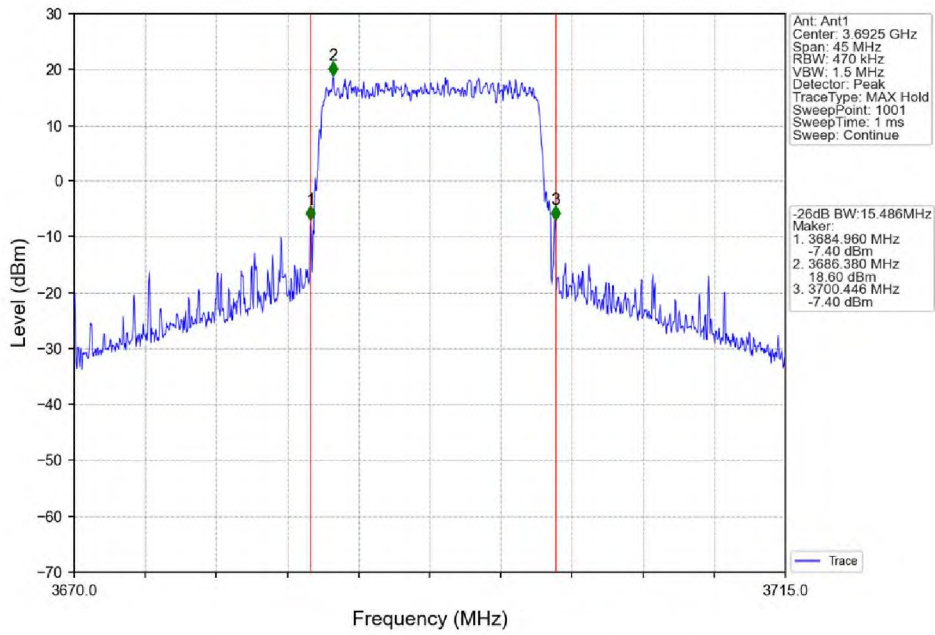
Band48_15MHz_QPSK_LCH_3557.5MHz_RB_75_0_NTNV



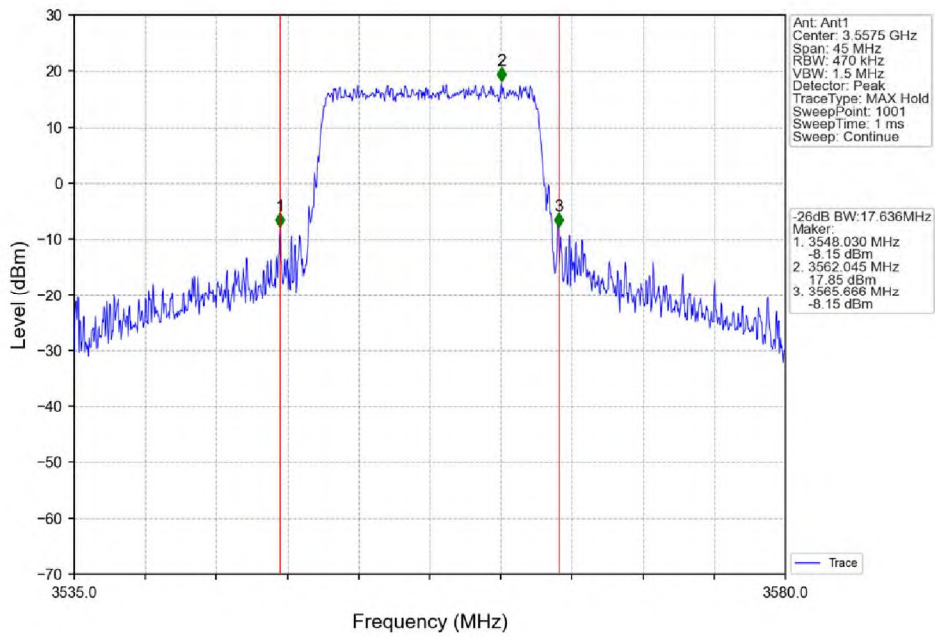
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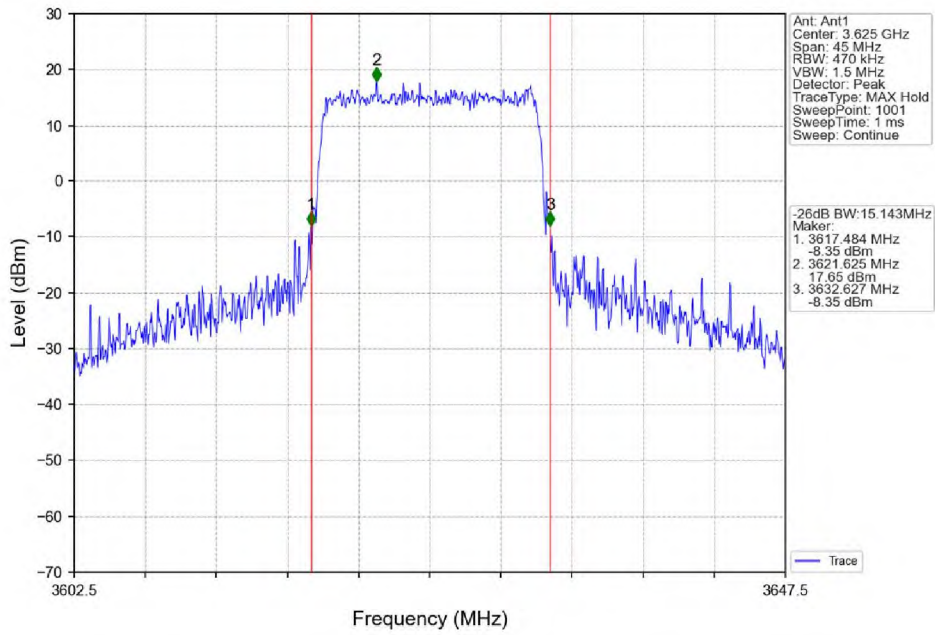
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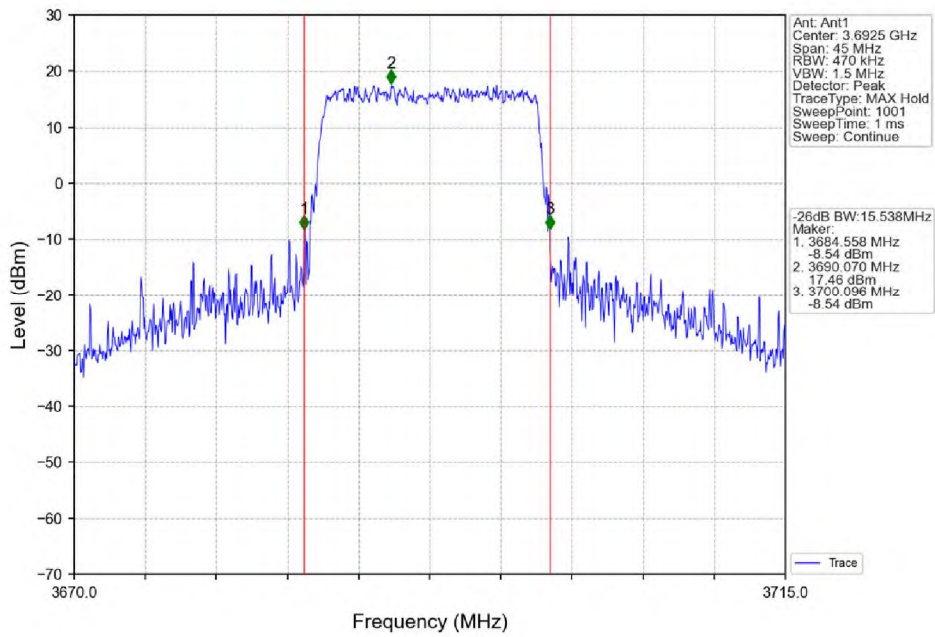
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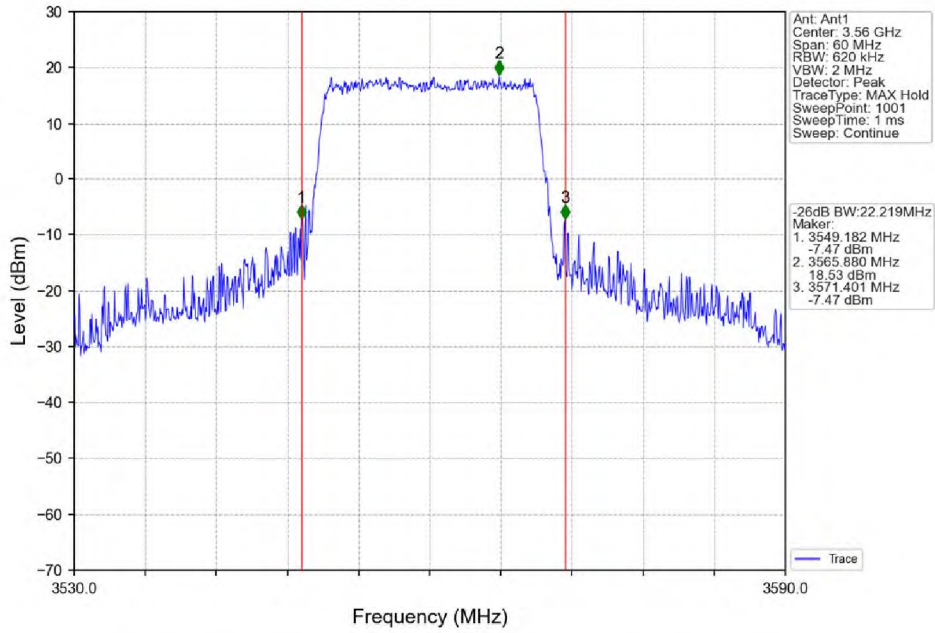
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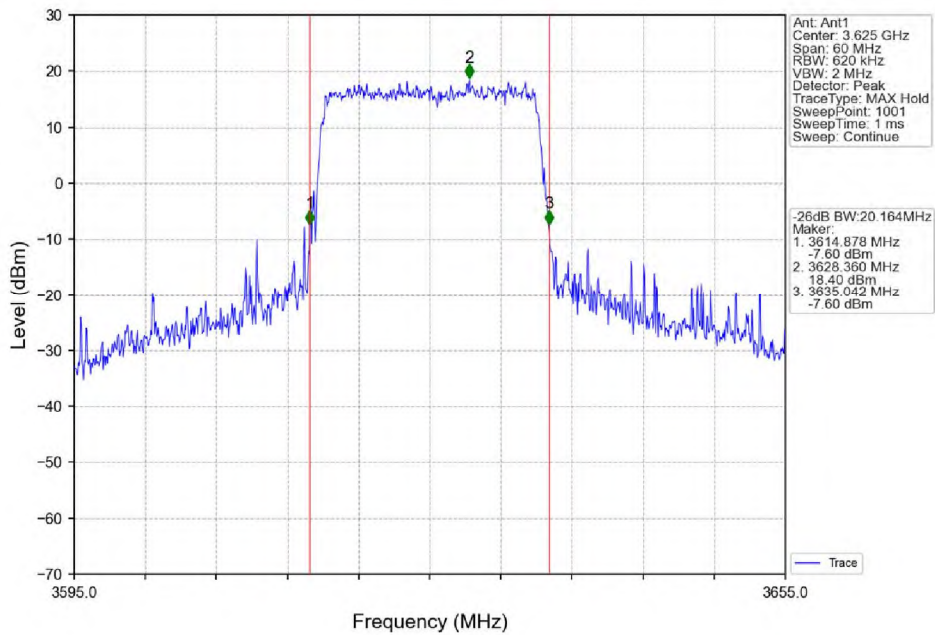
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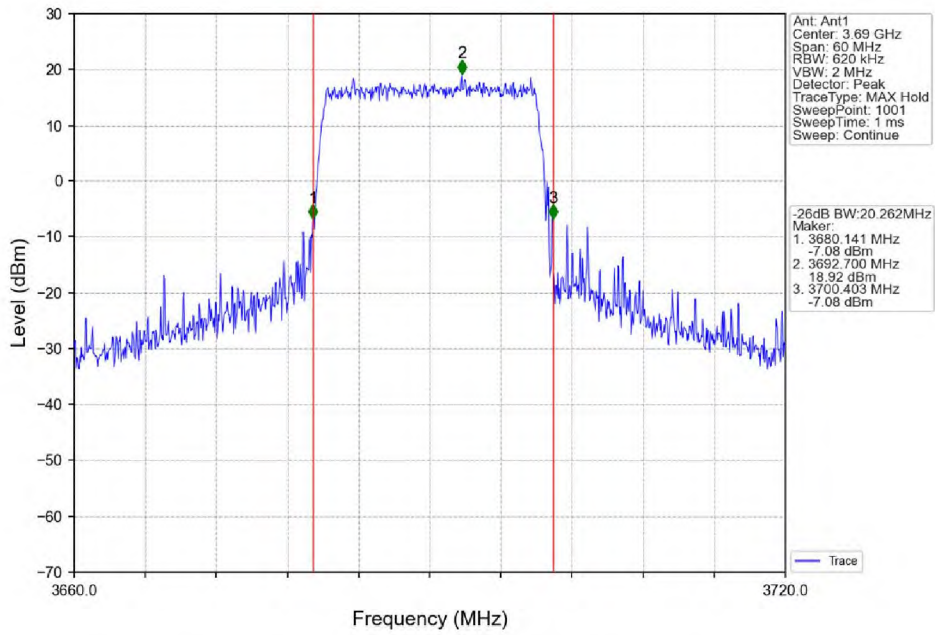
Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTNV



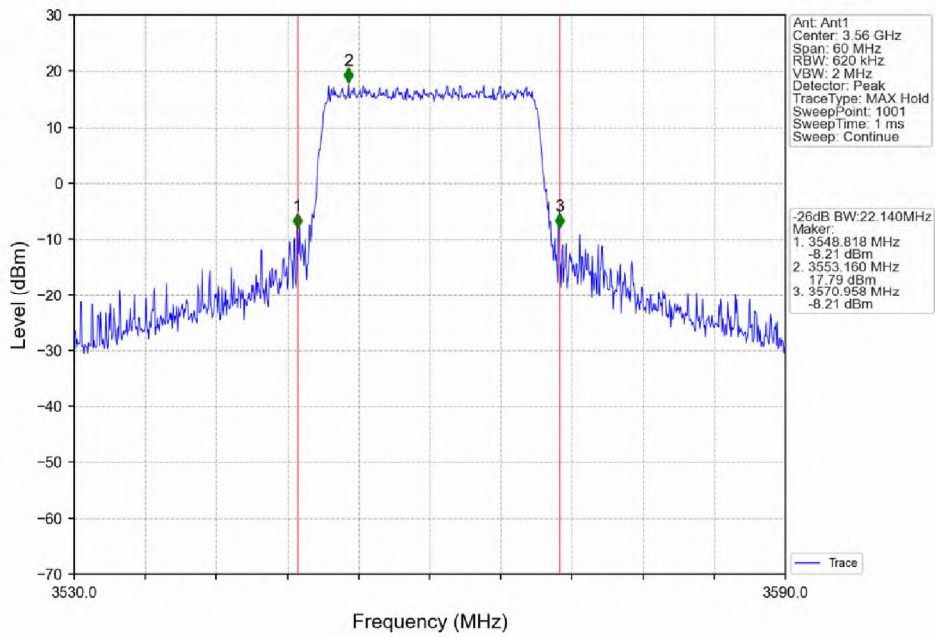
Band48 20MHz QPSK MCH 3625MHz RB 100 0 NTNV



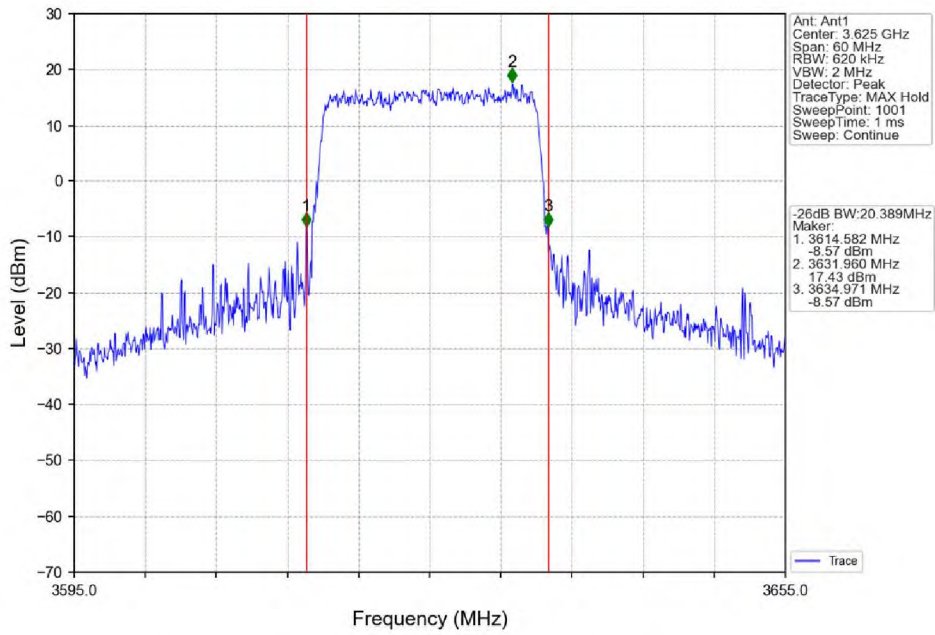
Band48 20MHz QPSK HCH 3690MHz RB 100 0 NTN



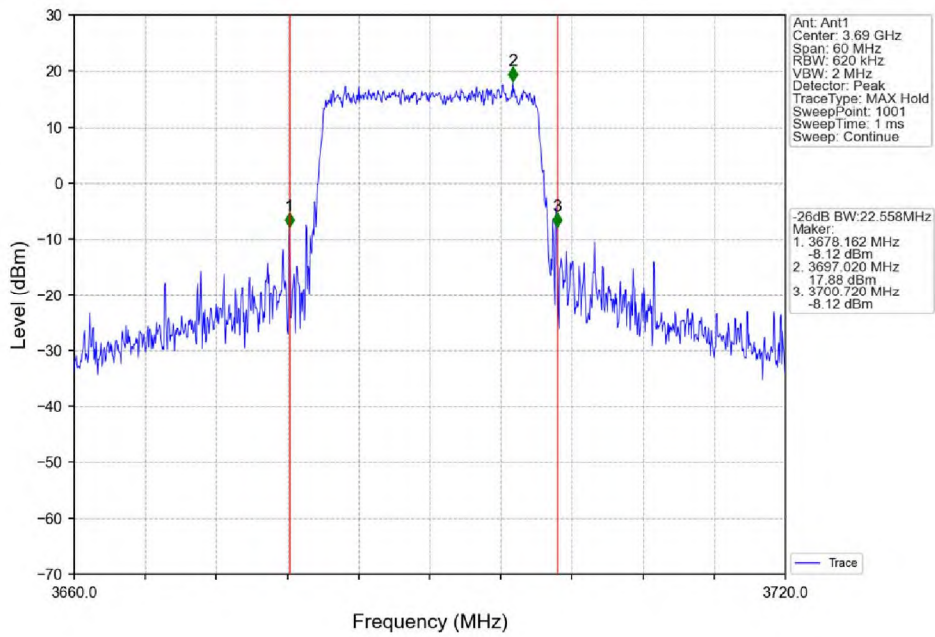
Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTN



Band48 20MHz 16QAM MCH 3625MHz RB 100 0 NTN



Band48 20MHz 16QAM HCH 3690MHz RB 100 0 NTN



UL 48C - LTE

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	50RB#0-100RB#0	27.756	29.00	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	50RB#0-100RB#0	27.613	29.00	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	50RB#0-100RB#0	27.824	29.25	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	50RB#0-100RB#0	27.728	29.08	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	50RB#0-100RB#0	27.702	29.08	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	50RB#0-100RB#0	27.724	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	50RB#0-100RB#0	27.717	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	50RB#0-100RB#0	27.716	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	50RB#0-100RB#0	27.723	29.17	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	50RB#0-100RB#0	27.715	29.08	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	50RB#0-100RB#0	27.724	29.08	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	50RB#0-100RB#0	27.727	29.08	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	75RB#0-100RB#0	32.718	34.00	PASS

48-48	15MHz-20MHz	QPSK-QPSK	55893-56064	75RB#0-100RB#0	32.627	34.00	PASS
48-48	15MHz-20MHz	QPSK-QPSK	56469-56640	75RB#0-100RB#0	32.656	34.00	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55318-55489	75RB#0-100RB#0	32.592	34.17	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55893-56064	75RB#0-100RB#0	32.579	34.17	PASS
48-48	15MHz-20MHz	16QAM-16QAM	56469-56640	75RB#0-100RB#0	32.593	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55318-55489	75RB#0-100RB#0	32.584	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55893-56064	75RB#0-100RB#0	32.591	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	56469-56640	75RB#0-100RB#0	32.619	34.17	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55318-55489	75RB#0-100RB#0	32.608	34.17	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55893-56064	75RB#0-100RB#0	32.597	34.17	PASS
48-48	15MHz-20MHz	256QAM-256QAM	56469-56640	75RB#0-100RB#0	32.598	34.17	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55340-55484	100RB#0-50RB#0	27.714	29.42	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55941-56085	100RB#0-50RB#0	27.759	29.17	PASS
48-48	20MHz-10MHz	QPSK-QPSK	56541-56685	100RB#0-50RB#0	27.777	29.00	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55340-55484	100RB#0-50RB#0	27.738	29.17	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55941-56085	100RB#0-50RB#0	27.757	29.17	PASS

48-48	20MHz-10MHz	16QAM-16QAM	56541-56685	100RB#0-50RB#0	27.732	29.25	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55340-55484	100RB#0-50RB#0	27.743	29.17	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55941-56085	100RB#0-50RB#0	27.734	29.17	PASS
48-48	20MHz-10MHz	64QAM-64QAM	56541-56685	100RB#0-50RB#0	27.767	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55340-55484	100RB#0-50RB#0	27.742	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55941-56085	100RB#0-50RB#0	27.734	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	56541-56685	100RB#0-50RB#0	27.744	29.17	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55340-55511	100RB#0-75RB#0	32.565	34.08	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55916-56087	100RB#0-75RB#0	32.534	34.00	PASS
48-48	20MHz-15MHz	QPSK-QPSK	56491-56662	100RB#0-75RB#0	32.671	34.08	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55340-55511	100RB#0-75RB#0	32.609	34.17	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55916-56087	100RB#0-75RB#0	32.597	34.08	PASS
48-48	20MHz-15MHz	16QAM-16QAM	56491-56662	100RB#0-75RB#0	32.592	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55340-55511	100RB#0-75RB#0	32.604	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55916-56087	100RB#0-75RB#0	32.615	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	56491-56662	100RB#0-75RB#0	32.624	34.17	PASS

48-48	20MHz-15MHz	256QAM-256QAM	55340-55511	100RB#0-75RB#0	32.601	34.17	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55916-56087	100RB#0-75RB#0	32.605	34.17	PASS
48-48	20MHz-15MHz	256QAM-256QAM	56491-56662	100RB#0-75RB#0	32.61	34.17	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	37.724	40.13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	37.813	40.27	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	37.935	40.27	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	37.743	40.40	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	37.712	40.27	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	37.742	40.40	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	37.74	40.27	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	37.738	40.27	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	37.738	40.27	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	37.766	40.27	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	37.709	40.27	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	37.714	40.27	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55340-55457	100RB#0-25RB#0	22.988	24.25	PASS

48-48	20MHz-5MHz	QPSK-QPSK	55965-56082	100RB#0-25RB#0	22.905	24.17	PASS
48-48	20MHz-5MHz	QPSK-QPSK	56590-56707	100RB#0-25RB#0	22.924	24.17	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55340-55457	100RB#0-25RB#0	22.909	24.17	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55965-56082	100RB#0-25RB#0	22.939	24.17	PASS
48-48	20MHz-5MHz	16QAM-16QAM	56590-56707	100RB#0-25RB#0	22.914	24.17	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55340-55457	100RB#0-25RB#0	22.942	24.17	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55965-56082	100RB#0-25RB#0	22.929	24.25	PASS
48-48	20MHz-5MHz	64QAM-64QAM	56590-56707	100RB#0-25RB#0	22.919	24.17	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55340-55457	100RB#0-25RB#0	22.92	24.25	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55965-56082	100RB#0-25RB#0	22.936	24.17	PASS
48-48	20MHz-5MHz	256QAM-256QAM	56590-56707	100RB#0-25RB#0	22.923	24.17	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55273-55390	25RB#0-100RB#0	22.884	24.25	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55898-56015	25RB#0-100RB#0	22.833	24.00	PASS
48-48	5MHz-20MHz	QPSK-QPSK	56523-56640	25RB#0-100RB#0	22.794	24.08	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55273-55390	25RB#0-100RB#0	22.888	24.08	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55898-56015	25RB#0-100RB#0	22.879	24.08	PASS

48-48	5MHz- 20MHz	16QAM- 16QAM	56523- 56640	25RB#0- 100RB#0	22.891	24.08	PASS
48-48	5MHz- 20MHz	64QAM- 64QAM	55273- 55390	25RB#0- 100RB#0	22.895	24.08	PASS
48-48	5MHz- 20MHz	64QAM- 64QAM	55898- 56015	25RB#0- 100RB#0	22.885	24.17	PASS
48-48	5MHz- 20MHz	64QAM- 64QAM	56523- 56640	25RB#0- 100RB#0	22.876	24.08	PASS
48-48	5MHz- 20MHz	256QAM- 256QAM	55273- 55390	25RB#0- 100RB#0	22.907	24.08	PASS
48-48	5MHz- 20MHz	256QAM- 256QAM	55898- 56015	25RB#0- 100RB#0	22.871	24.17	PASS
48-48	5MHz- 20MHz	256QAM- 256QAM	56523- 56640	25RB#0- 100RB#0	22.883	24.08	PASS