

AXT200 Modulation versus Frequency Curves

Measurement date: 4/1/2011

AXT100 Modulation Characteristics

Measured Deviation (kHz)

Audio Generator: AP Portable One

Measured on a Boonton 8200 Modulation Analyzer

Boonton Settings: HP = <10Hz, LP = 50kHz, No Pre-emp

Audio level input = -30dBu (sine wave)

Settings: 0dB gain (nominal setting, tonekey enabled)

Frequency of maximum response: 10.0 kHz

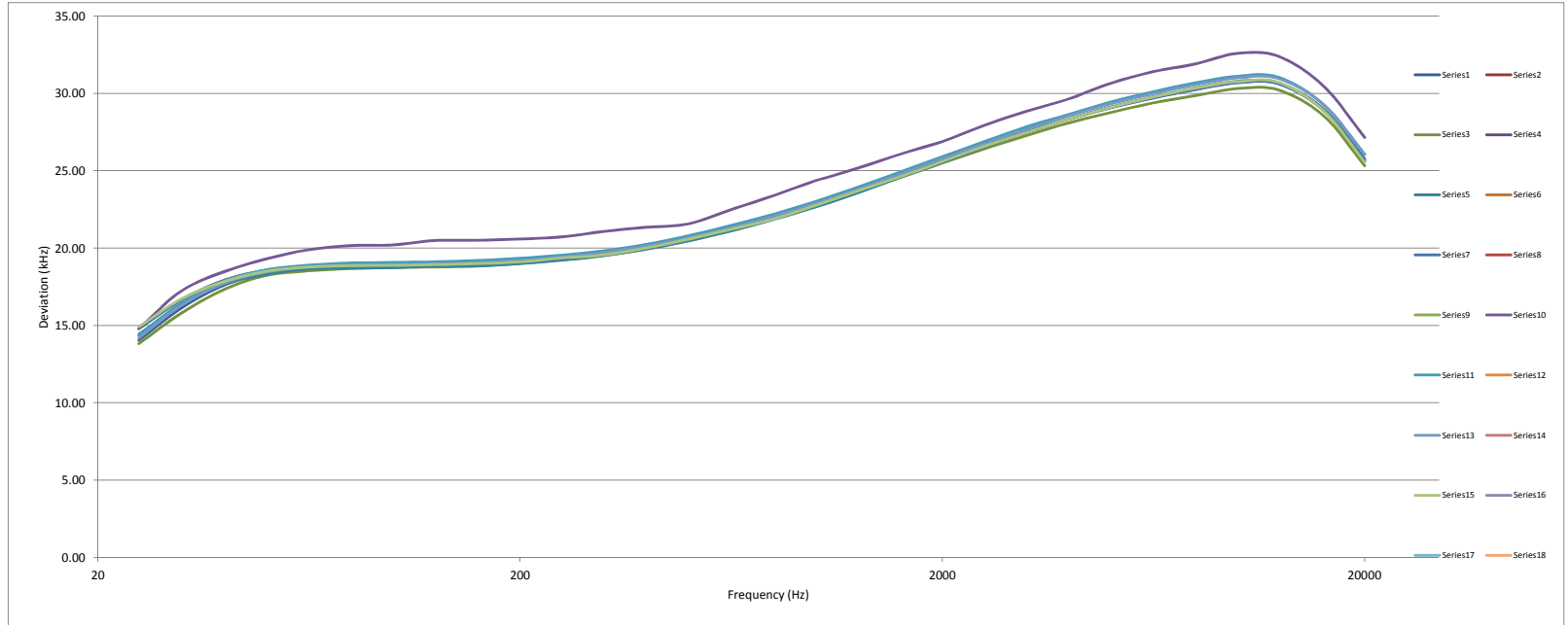
Measurements done in 10mW mode

and checked for consistency to 50mW mode

The modulation is the same for each power mode

Each carrier section is identical

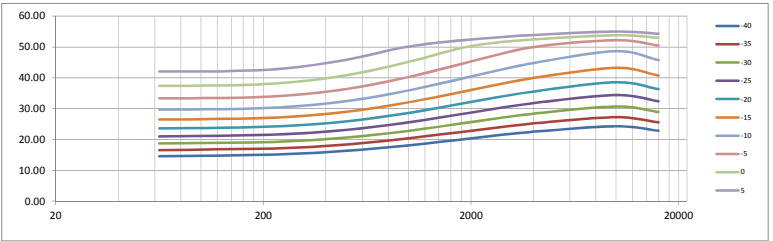
Audio Freq	Carrier Frequency (mid-band)															
	500 MHz		548 MHz		607.875 MHz		668 MHz		750 MHz		836 MHz		898 MHz		977 MHz	
	G1/G1E Band		H4/H4E Band		J5/J5E Band		L3/L3E Band		P8 Band		K4E Band		M8 Band		Q5 Band	
25	14.05		13.83		14.44		14.80		14.79		14.34		14.20		14.92	
31.5	16.13		15.80		16.33		16.65		17.23		16.45		16.30		16.72	
40	17.64		17.36		17.70		17.95		18.50		17.88		17.76		17.86	
50	18.38		18.23		18.30		18.56		19.30		18.60		18.45		18.51	
63	18.69		18.54		18.66		18.82		19.90		18.90		18.81		18.79	
80	18.82		18.69		18.72		18.84		20.18		19.04		18.90		18.86	
100	18.85		18.75		18.75		18.92		20.21		19.08		18.93		18.90	
125	18.89		18.79		18.85		18.95		20.49		19.12		18.98		18.94	
160	18.98		18.85		18.86		19.05		20.51		19.21		19.06		19.01	
200	19.11		19.02		19.00		19.13		20.60		19.35		19.22		19.12	
250	19.35		19.24		19.22		19.35		20.73		19.55		19.43		19.36	
315	19.66		19.54		19.52		19.62		21.08		19.83		19.72		19.56	
400	20.08		19.96		19.95		20.07		21.36		20.25		20.15		20.03	
500	20.60		20.50		20.47		20.64		21.57		20.80		20.66		20.58	
630	21.25		21.14		21.11		21.23		22.48		21.46		21.31		21.22	
800	22.00		21.90		21.87		22.00		23.42		22.21		22.08		21.90	
1000	22.80		22.71		22.67		22.81		24.36		23.02		22.89		22.77	
1250	23.68		23.58		23.54		23.69		25.14		23.91		23.78		23.67	
1600	24.68		24.59		24.62		24.71		26.11		24.95		24.81		24.65	
2000	25.64		25.51		25.56		25.61		26.90		25.92		25.78		25.61	
2500	26.59		26.40		26.53		26.59		27.93		26.87		26.72		26.57	
3150	27.48		27.27		27.48		27.50		28.84		27.83		27.68		27.46	
4000	28.35		28.12		28.39		28.37		29.67		28.67		28.59		28.37	
5000	29.08		28.77		29.11		29.11		30.66		29.45		29.32		29.10	
6300	29.70		29.39		29.78		29.74		31.41		30.11		29.99		29.77	
8000	30.29		29.88		30.37		30.27		31.94		30.71		30.58		30.37	
10000	30.70		30.32		30.79		30.71		32.60		31.12		31.01		30.77	
12500	30.64		30.23		30.70		30.63		32.41		31.05		30.97		30.72	
16000	28.93		28.55		28.98		28.90		30.47		29.27		29.28		28.88	
20000	25.68		25.33		25.78		25.66		27.16		26.06		26.06		25.56	



AXT200 Modulation by Input Level Curves

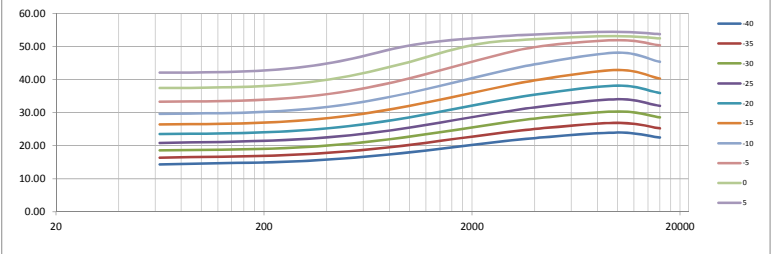
Band: G1/G1E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.52	14.79	15.22	16.29	18.10	20.37	22.51	24.28	22.82
-35	16.56	16.81	17.20	18.33	20.39	22.82	25.21	27.21	25.56
-30	18.68	18.90	19.35	20.60	22.78	25.63	28.37	30.69	28.92
-25	21.01	21.21	21.70	23.05	25.55	28.73	31.78	34.40	32.40
-20	23.61	23.80	24.32	25.85	28.61	32.18	35.57	38.57	36.33
-15	26.47	26.66	27.25	28.96	32.05	36.04	39.95	43.21	40.74
-10	29.70	29.86	30.49	32.45	35.89	40.42	44.81	48.62	45.75
-5	33.34	33.49	34.14	36.36	40.25	45.31	49.98	52.20	50.50
0	37.38	37.54	38.35	40.80	45.16	50.29	52.40	53.80	53.00
5	42.07	42.11	43.02	45.80	50.15	52.40	53.90	55.00	54.30



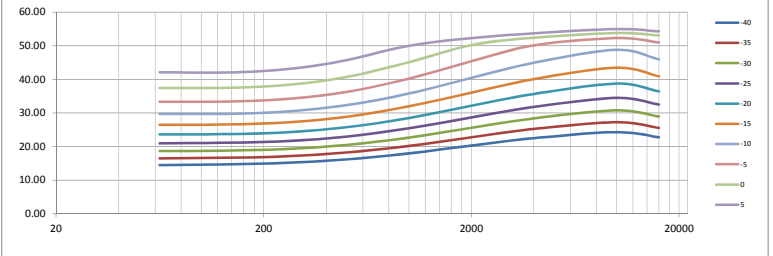
Band: H4/H4E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.34	14.70	15.08	16.18	17.97	20.22	22.28	23.94	22.45
-35	16.37	16.67	17.10	18.22	20.21	22.71	25.01	26.86	25.20
-30	18.57	18.79	19.23	20.48	22.71	25.49	28.17	30.31	28.54
-25	20.83	21.12	21.66	23.01	25.46	28.58	31.55	34.01	32.02
-20	23.48	23.71	24.24	25.80	28.56	32.09	35.38	38.13	35.89
-15	26.40	26.60	27.24	28.95	32.01	35.92	39.71	42.84	40.28
-10	29.63	29.82	30.49	32.44	35.93	40.37	44.56	48.07	45.32
-5	33.30	33.49	34.21	36.41	40.30	45.33	49.76	51.86	50.31
0	37.39	37.58	38.39	40.88	45.29	50.36	52.20	53.10	52.40
5	42.07	42.22	43.12	45.93	50.29	52.40	53.60	54.40	53.70



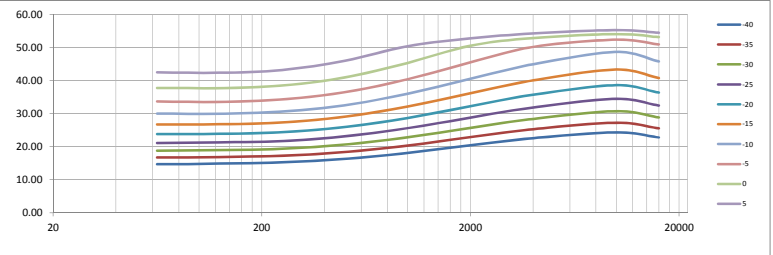
Band: J5/J5E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.44	14.70	15.10	16.16	17.96	20.31	22.52	24.29	22.77
-35	16.49	16.65	17.07	18.21	20.18	22.77	25.24	27.25	25.55
-30	18.65	18.79	19.22	20.48	22.65	25.59	28.38	30.77	28.94
-25	20.97	21.11	21.57	22.95	25.44	28.66	31.81	34.48	32.52
-20	23.59	23.68	24.18	25.74	28.51	32.15	35.66	38.74	36.43
-15	26.46	26.56	27.13	28.85	31.98	36.04	40.09	43.48	40.92
-10	29.69	29.75	30.38	32.33	35.79	40.44	44.96	48.81	45.97
-5	33.36	33.37	34.08	36.26	40.22	45.40	50.13	52.30	51.00
0	37.45	37.45	38.25	40.71	45.11	50.21	52.40	53.80	53.10
5	42.14	42.05	42.92	45.74	50.01	52.30	53.70	55.00	54.30



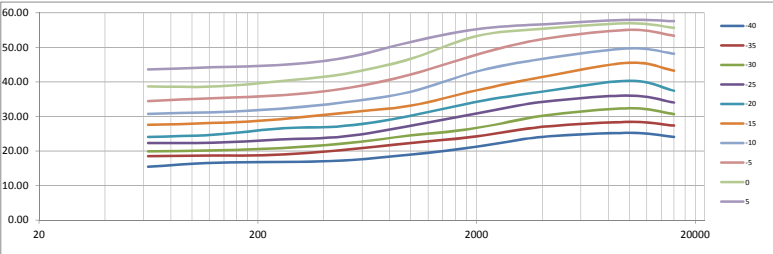
Band: L3/L3E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.64	14.84	15.23	16.27	18.07	20.36	22.54	24.28	22.76
-35	16.67	16.83	17.21	18.34	20.31	22.86	25.26	27.21	25.52
-30	18.78	18.94	19.34	20.59	22.81	25.65	28.37	30.69	28.81
-25	21.10	21.26	21.67	23.10	25.57	28.75	31.82	34.41	32.41
-20	23.79	23.84	24.34	25.89	28.63	32.21	35.67	38.55	36.31
-15	26.72	26.75	27.28	29.02	32.11	36.11	40.01	43.29	40.72
-10	29.97	29.94	30.57	32.51	35.97	40.48	44.89	48.59	45.74
-5	33.63	33.52	34.21	36.45	40.36	45.45	50.14	52.30	50.89
0	37.75	37.67	38.42	40.89	45.28	50.47	52.80	54.00	53.10
5	42.44	42.30	43.13	45.93	50.34	52.70	54.20	55.20	54.40



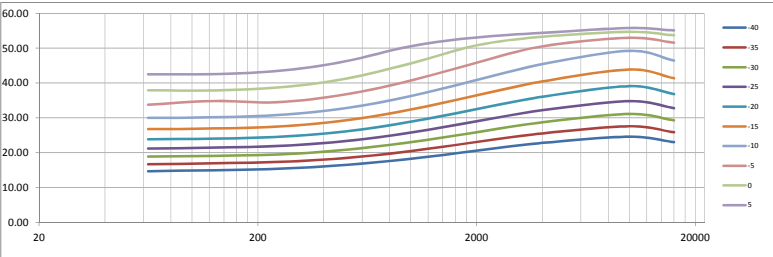
Band: P8

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	15.45	16.61	16.78	17.30	18.95	21.22	24.09	25.24	24.08
-35	18.48	18.65	18.93	20.33	22.33	24.22	26.99	28.43	27.37
-30	19.91	20.15	20.81	22.19	24.52	26.64	30.18	32.39	30.69
-25	22.35	22.41	23.32	24.22	27.33	30.85	34.21	36.05	34.03
-20	24.07	24.69	26.50	27.27	30.19	34.27	37.19	40.34	37.47
-15	27.56	28.11	29.13	31.11	33.13	37.56	41.45	45.56	43.27
-10	30.77	31.25	32.19	34.14	37.15	43.02	46.68	49.71	48.19
-5	34.46	35.31	36.09	38.11	42.13	47.90	52.40	55.10	53.40
0	38.68	38.67	40.17	42.37	46.71	53.30	55.40	57.00	55.70
5	43.67	44.25	44.93	46.95	51.60	55.30	56.70	58.00	57.60



Band: K4E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.70	14.96	15.37	16.44	18.26	20.59	22.80	24.59	23.04
-35	16.66	16.97	17.36	18.45	20.50	23.08	25.55	27.58	25.87
-30	18.90	19.10	19.51	20.79	23.01	25.89	28.72	31.12	29.31
-25	21.18	21.45	21.91	23.31	25.78	29.02	32.19	34.80	32.80
-20	23.90	24.05	24.55	26.10	28.89	32.53	36.07	39.10	36.84
-15	26.77	26.96	27.51	29.25	32.38	36.45	40.47	43.89	41.38
-10	29.97	30.19	30.82	32.75	36.28	40.86	45.42	49.25	46.43
-5	33.78	34.83	34.53	36.73	40.68	45.86	50.55	53.00	51.57
0	37.92	37.90	38.74	41.20	45.63	50.82	53.30	54.70	53.70
5	42.55	42.61	43.48	46.22	50.58	53.10	54.40	55.80	55.10



Band: M8

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.65	14.87	15.25	16.27	18.21	20.46	22.67	24.51	23.08
-35	16.63	16.86	17.28	18.38	20.40	22.97	25.44	27.48	25.85
-30	18.81	18.98	19.44	20.64	22.89	25.78	28.58	31.03	29.25

