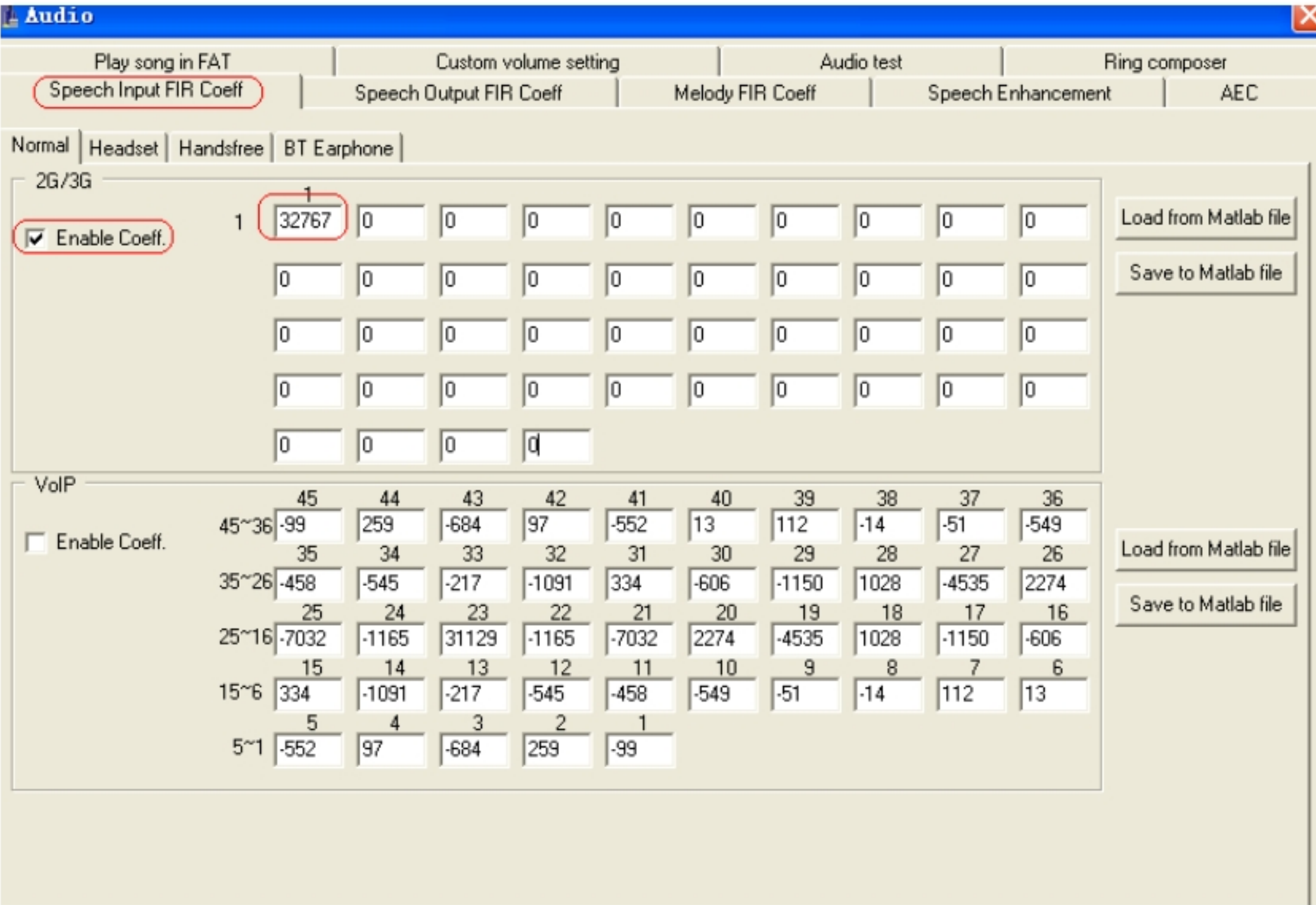
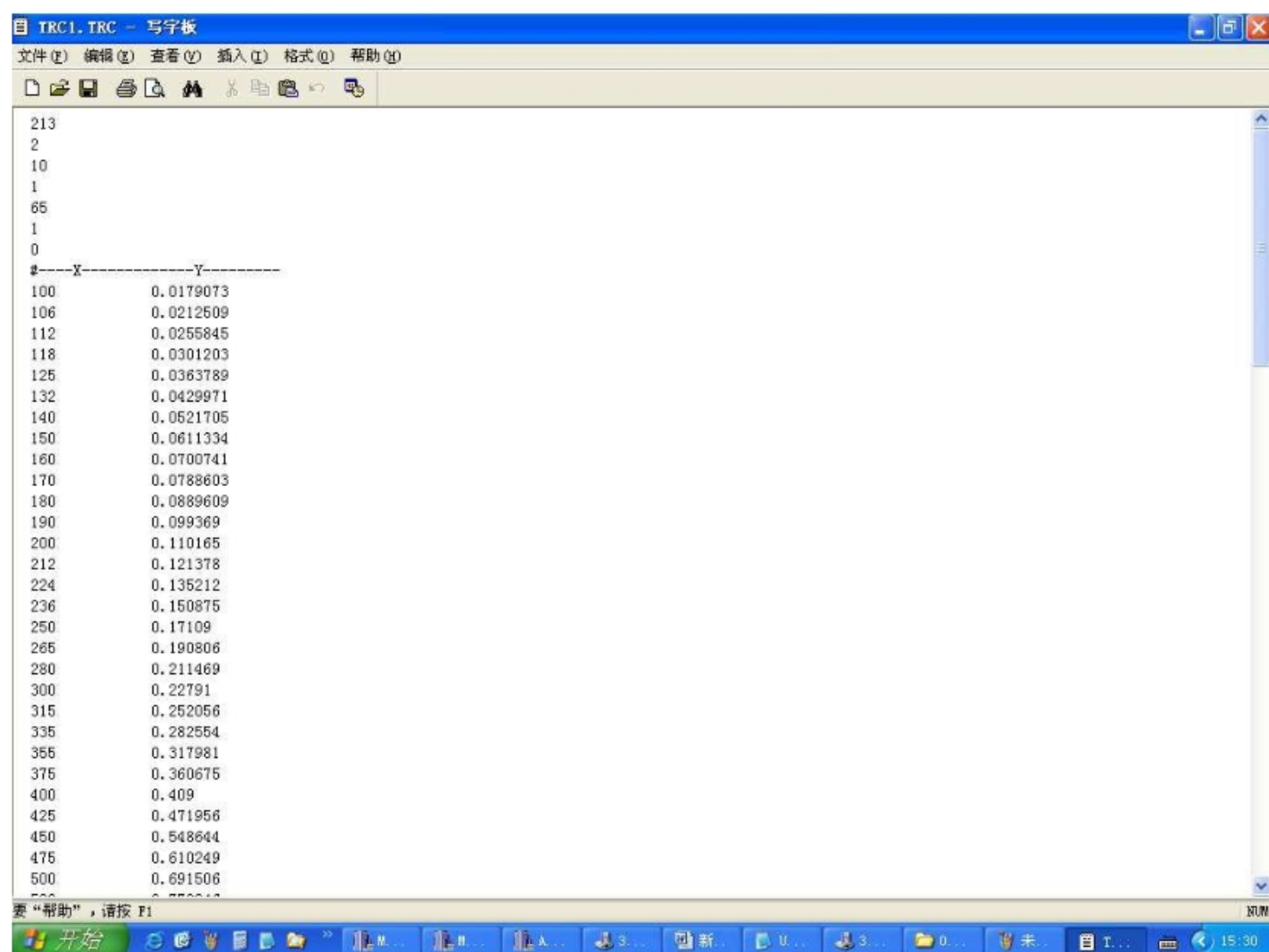


MTK 音频调试流程

一. 发送曲线：
先测出原始曲线，参数改为下图：



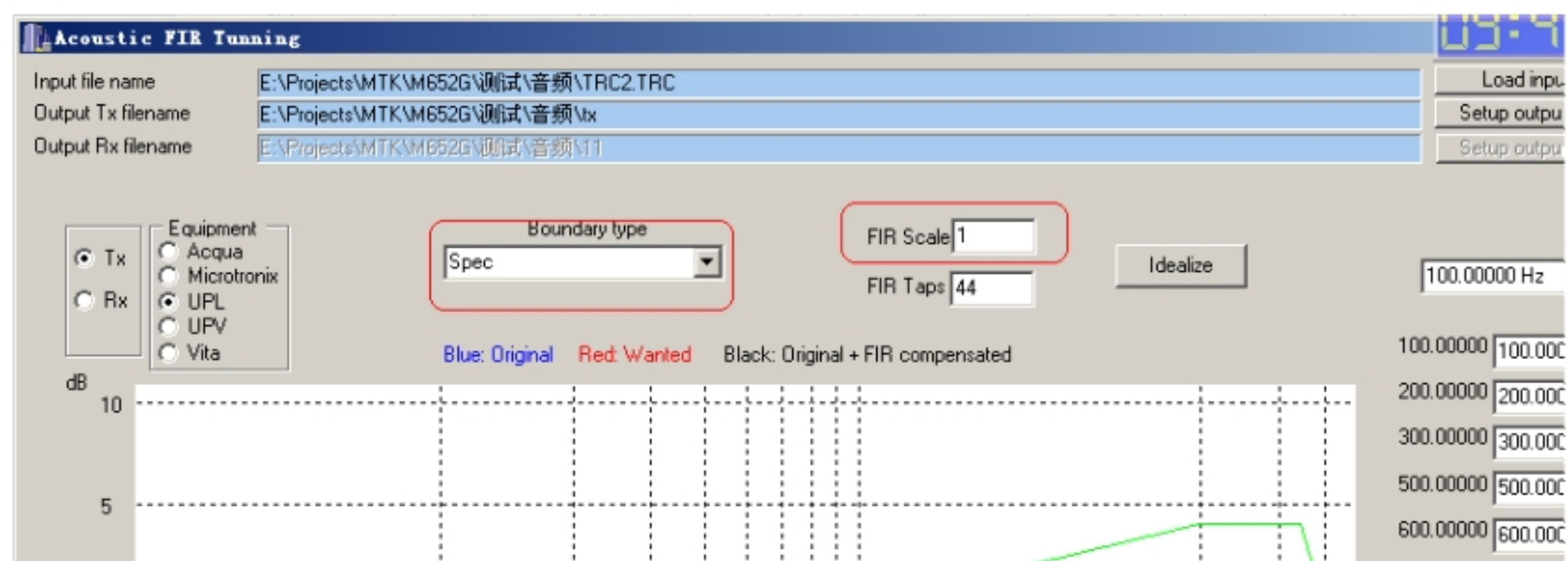
将 UPL 测出的曲线数据保存为.TRC,如下图：



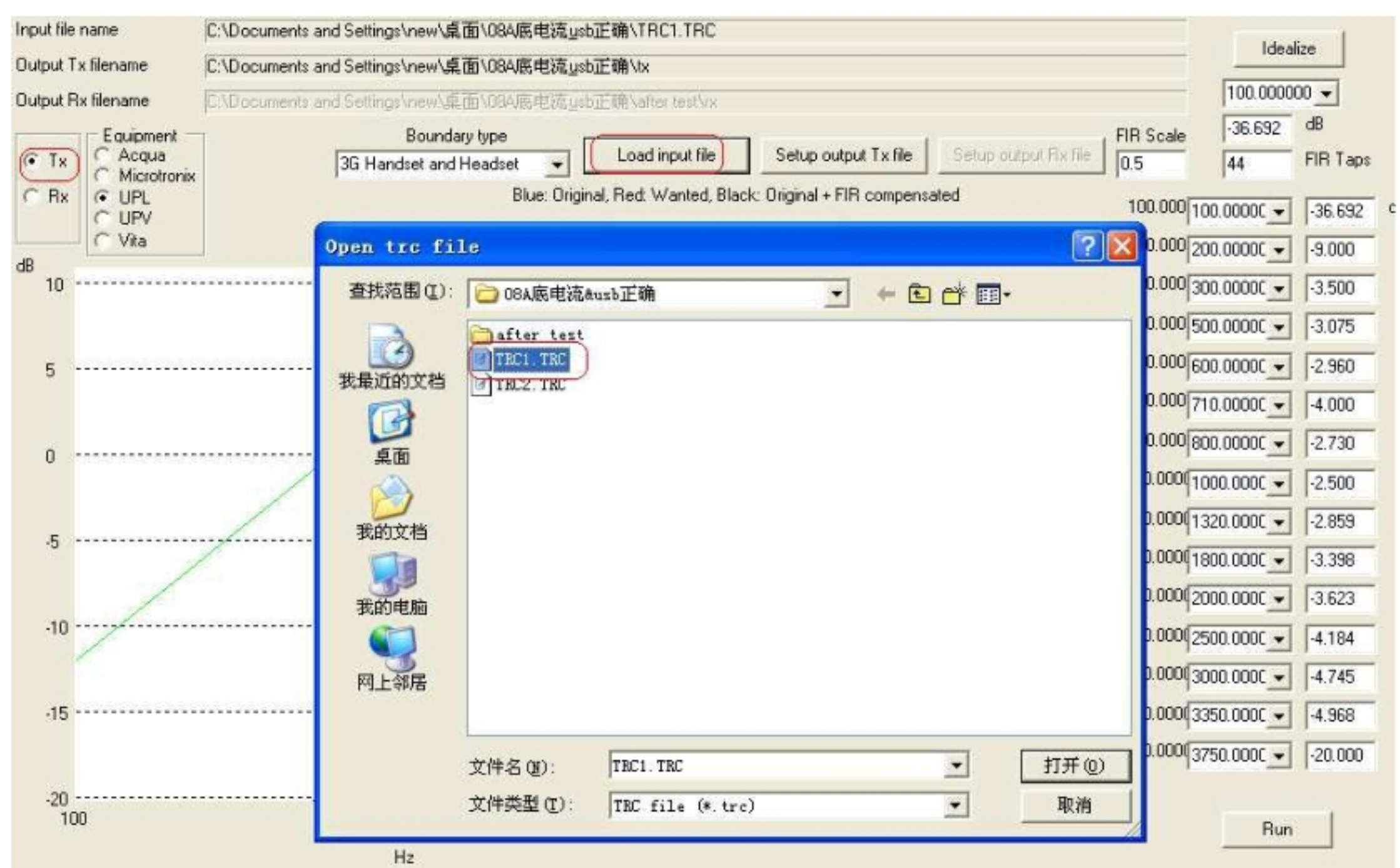
打开 META, 如下图:

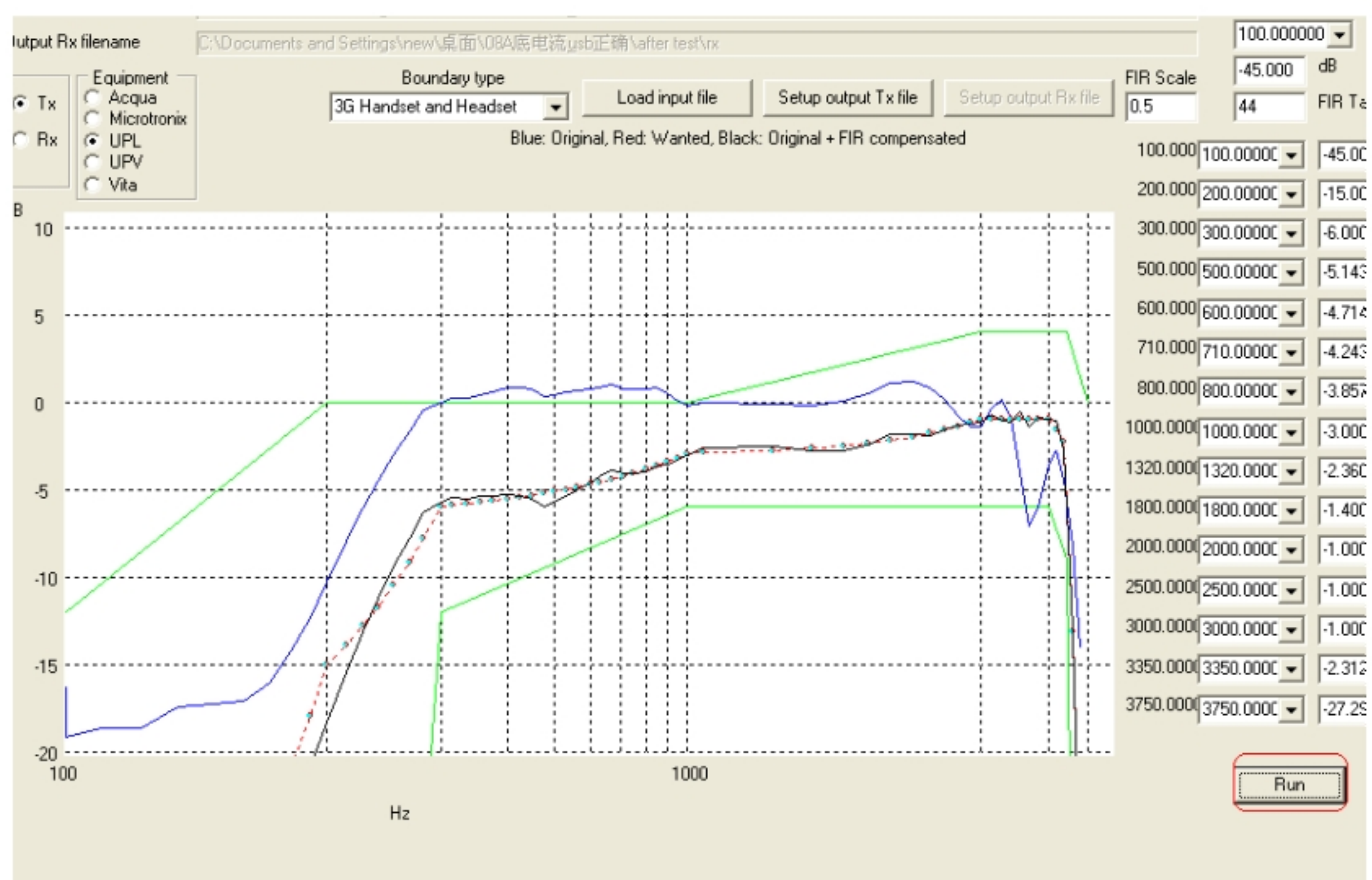
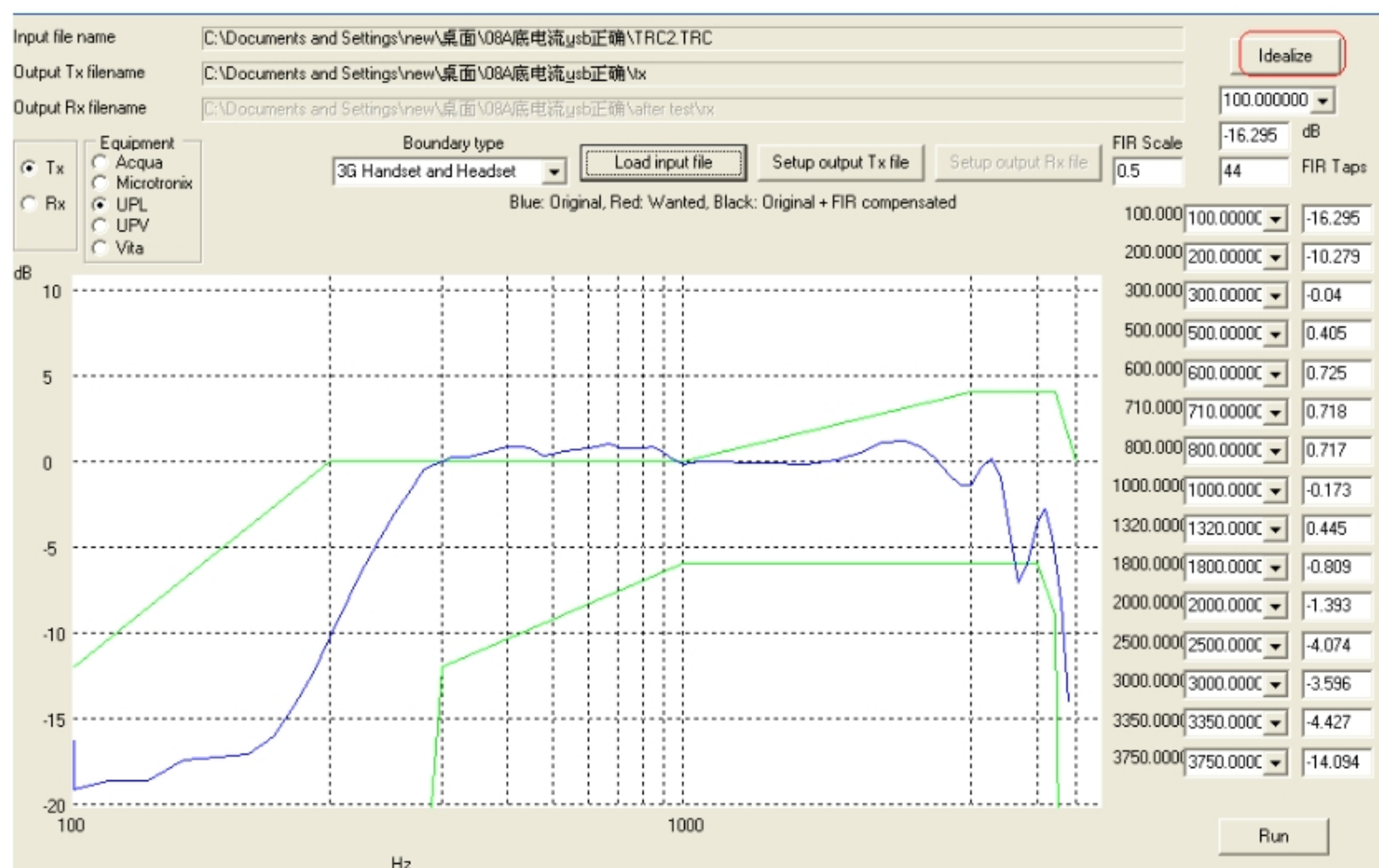
	45	44	43	42	41	40	39	38	37	36
45~36	-99	259	-684	97	-552	13	112	-14	-51	-549
35~26	35	34	33	32	31	30	29	28	27	26
25~16	-458	-545	-217	-1091	334	-606	-1150	1028	-4535	2274
15~6	25	24	23	22	21	20	19	18	17	16
5~1	-7032	-1165	31129	-1165	-7032	2274	-4535	1028	-1150	-606
	15	14	13	12	11	10	9	8	7	6
	334	-1091	-217	-545	-458	-549	-51	-14	112	13
	5	4	3	2	1					
	-552	97	-684	259	-99					

设置如下:

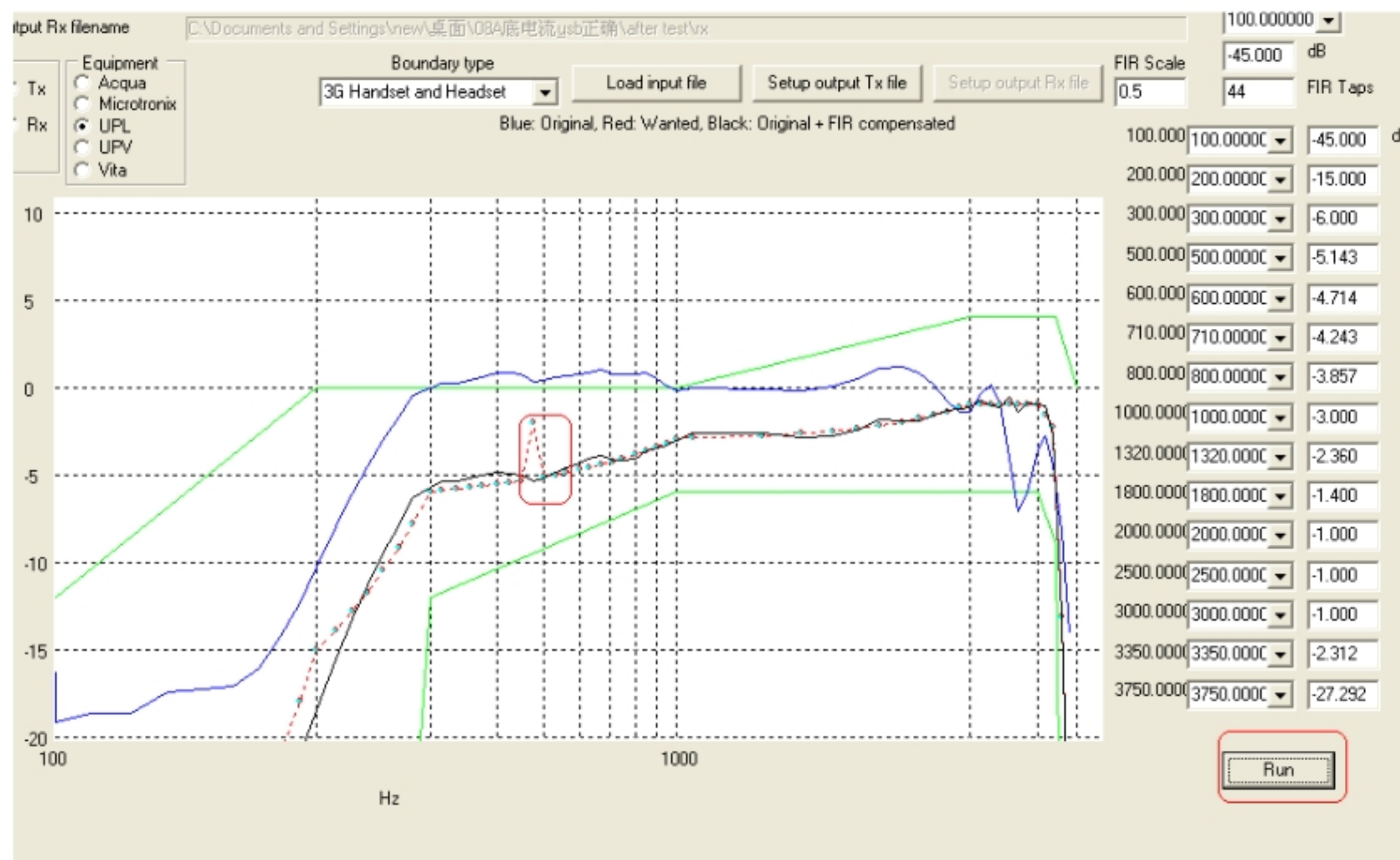


把刚才保存的.TRC 文件导入，如下图：

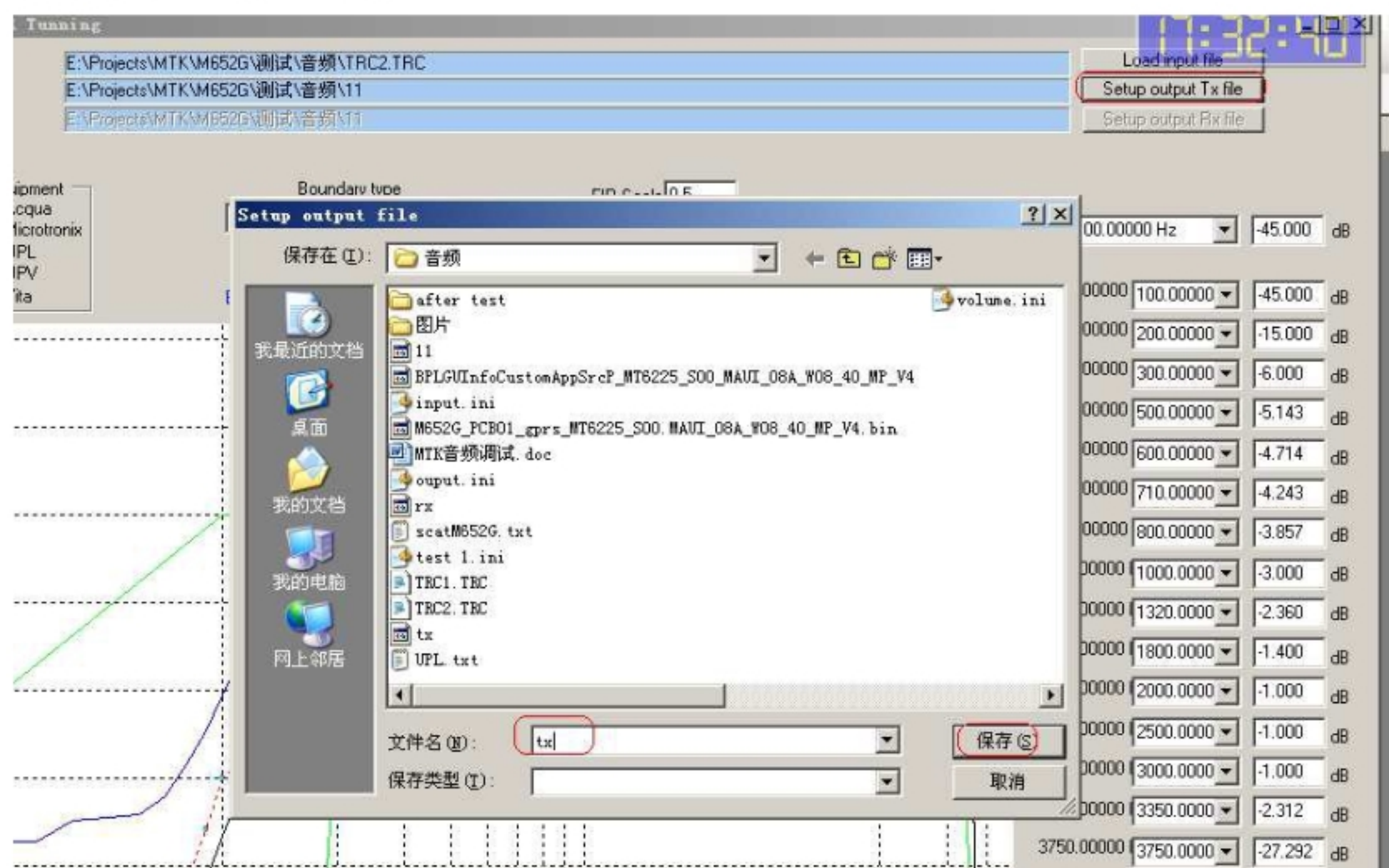




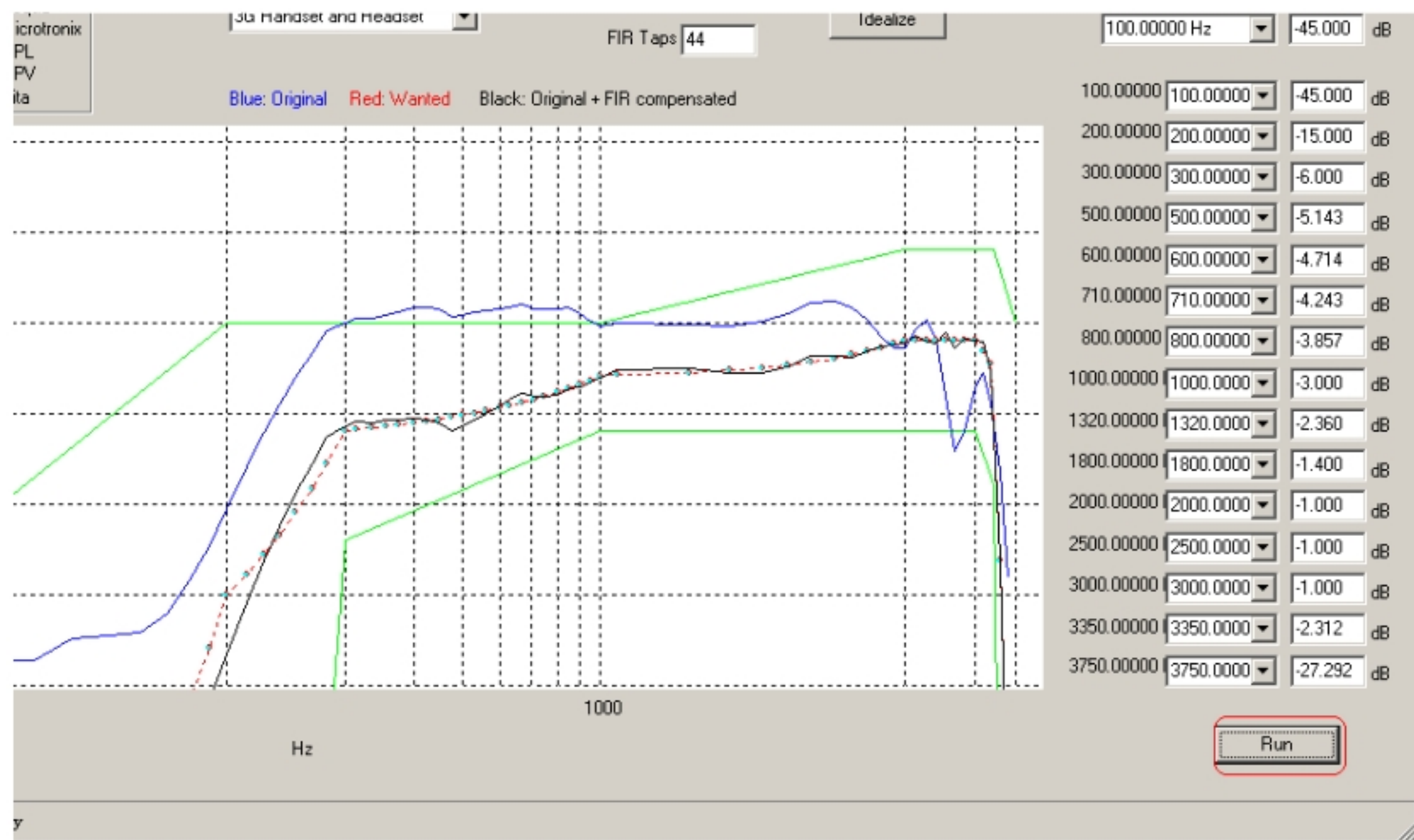
如果曲线中有不太理想的地方，可以用鼠标拖动，然后再 Run,如下图：



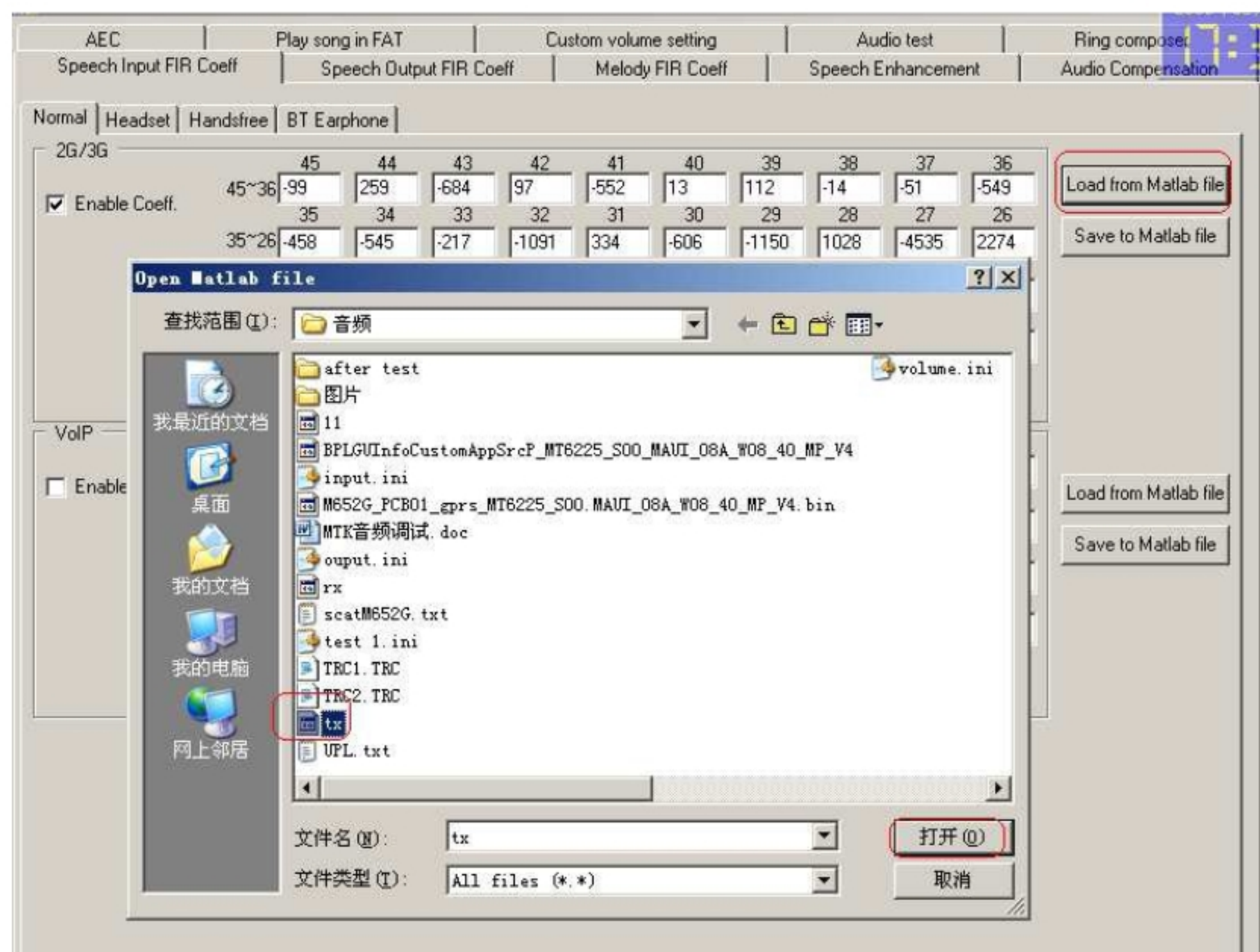
选择文件名 tx 和路径，并保存：



然后 Run，退出该窗口：



把刚才保存的 tx Load 进来：



Download 到手机里:

Audio Tool interface showing coefficient tables for Enable Coeff. and VoIP sections. The 'Download to flash' button is highlighted with a red box.

Enable Coeff.

	44~35	34	33	32	31	30	29	28	27	26	25
34~25	100	-314	-195	-104	-394	-106	-355	225	-1204	424	
24~15	338	-2509	610	392	-940	-931	1425	-2681	-1168	4304	
14~5	-13120	16383	16383	-13120	4304	-1168	-2681	1425	-931	-940	
4~1	392	610	-2509	338	424	-1204	225	-355	-106	-394	
	4	3	2	1							
	-104	-195	-314	100							

VoIP

	45	44	43	42	41	40	39	38	37	36
45~36	-99	259	-684	97	-552	13	112	-14	-51	-549
35~26	35	34	33	32	31	30	29	28	27	26
25~16	-458	-545	-217	-1091	334	-606	-1150	1028	-4535	2274
15~6	25	24	23	22	21	20	19	18	17	16
5~1	-7032	-1165	31129	-1165	-7032	2274	-4535	1028	-1150	-606
	15	14	13	12	11	10	9	8	7	6
	334	-1091	-217	-545	-458	-549	-51	-14	112	13
	5	4	3	2	1					
	-552	97	-684	259	-99					

Buttons: Upload from flash, **Download to flash**, Change NVRAM DB, Load fom ini file, Save to ini file, Acoustic FIR Tuning, Generate audcoeff.c

最后，点击 Disconnect:

Maui META Audio Tool interface. The 'Disconnect' button is highlighted with a red box.

Audio Tool: COM3

Connect with target

Flow control: Software (selected), Hardware

Support: Auto Control Power Supply

BB chip: MT6225, Ext.clock: 26 MHz, RF chip: MT6139E

BT BB Chip: MT6601, FM: MT6188D, Target Baudrate: 115200

Buttons: Disconnect, Reconnect, Baudrate (Auto), Save to Matlab file, Load from Matlab file

二. 接收曲线:

调试方法同发送曲线。

三. 接收响度:

过 CTA 时, 最大音量的参数不要大于 196。

Speech Input FIR Coeff | Speech Output FIR Coeff | Melody FIR Coeff | Speech Enhancement | Audio Compensation

AEC | Play song in FAT | Custom volume setting | Audio test | Ring composer

Normal | Headset | Handfree | TV out

7 Level

Volume Level

Keypad Tone: Level 3 | Speech: Level 3 | Melody: Level 3

Volume Gain

Key Tone | Microphone | Speech | Side Tone | Melody

Speech Tone

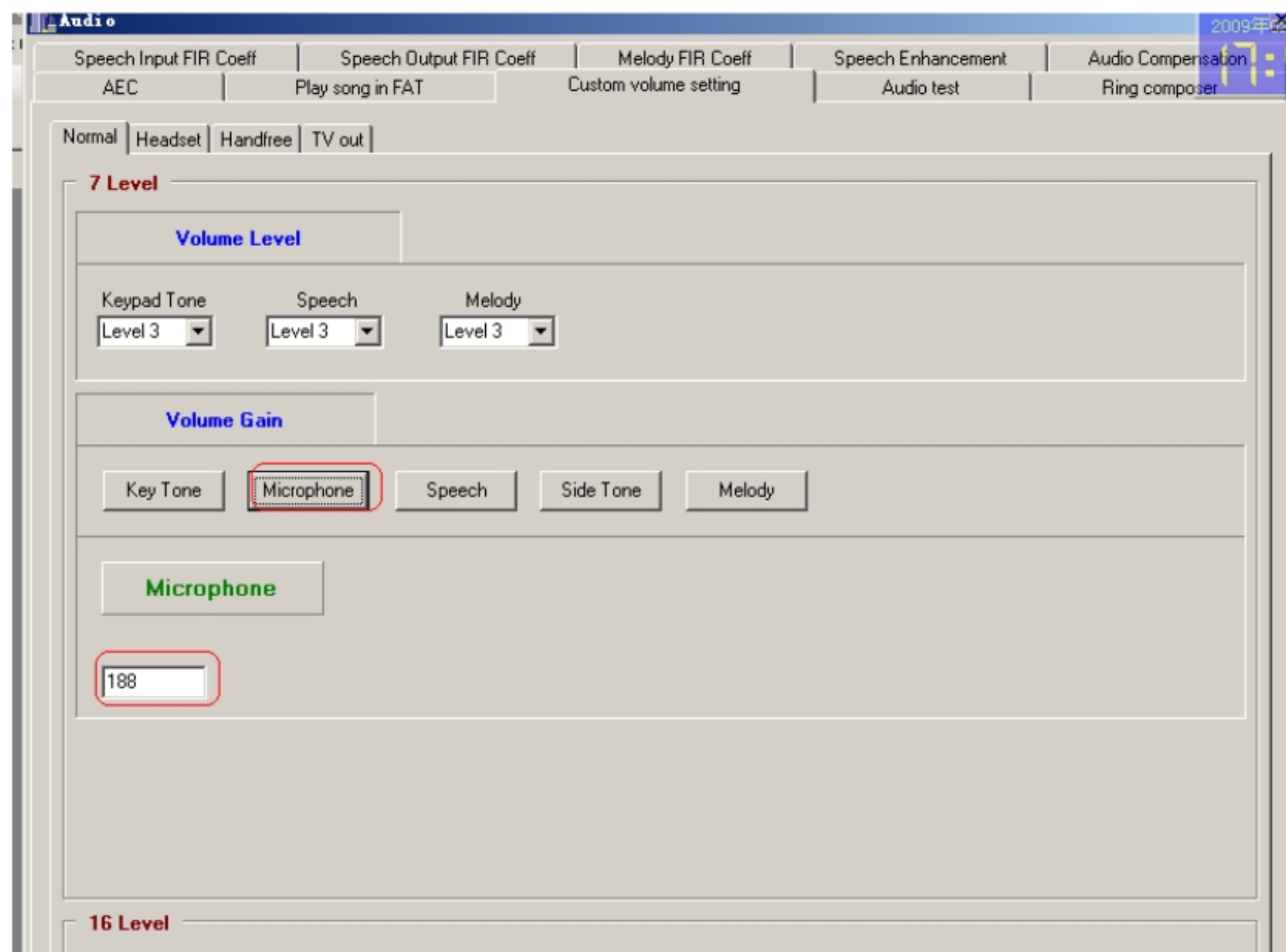
Level 0: 32 | Level 1: 64 | Level 2: 96 | Level 3: 128 | Level 4: 160 | Level 5: 192 | Level 6: 224

16 Level

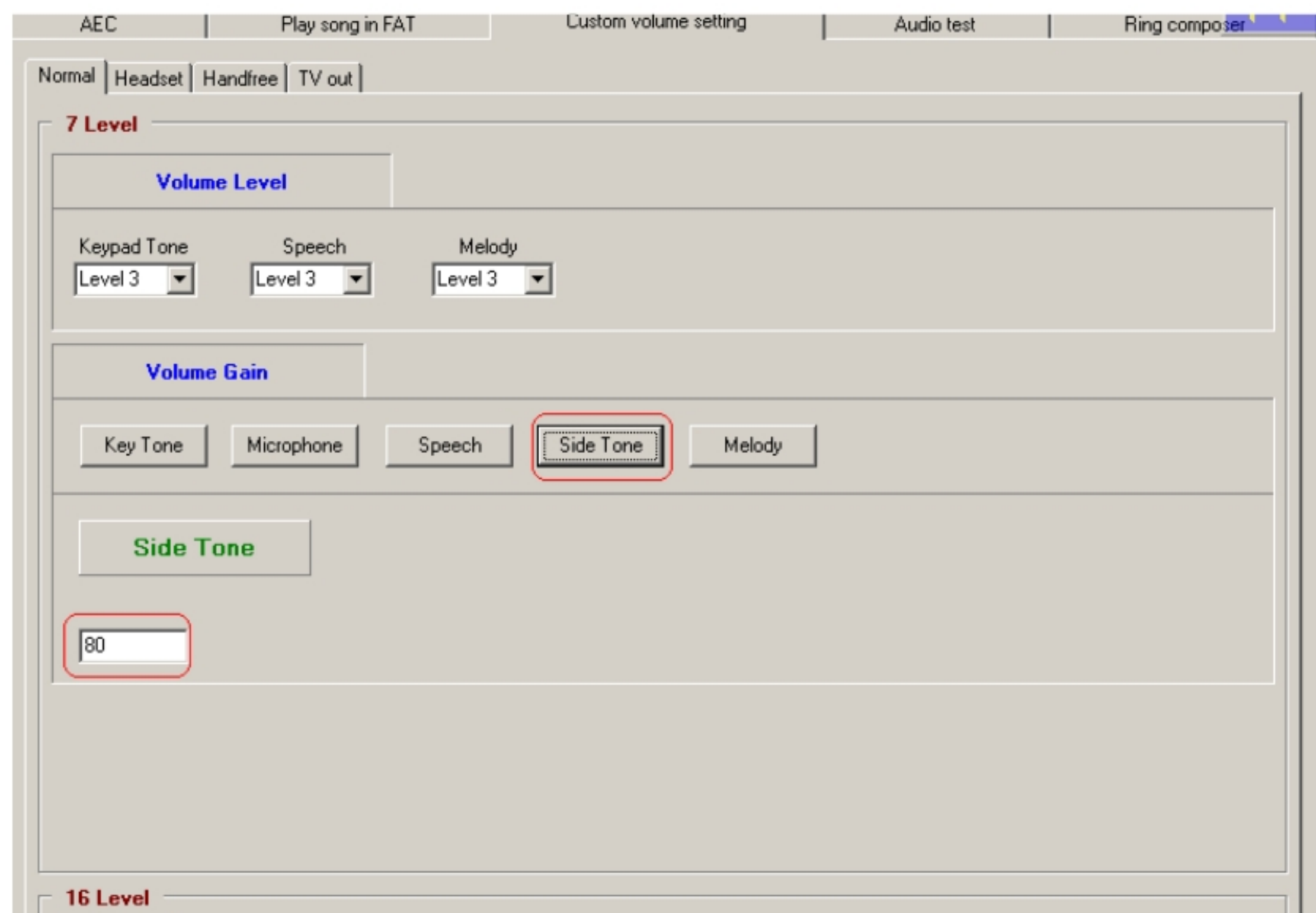
Max melody volume gain: 140 | Melody volume gain step: 4

Upload from flash | Download to flash | Change NVRAM DB | Load from file | Save to file | Generate nvram_default_audio.c

四. 发送响度:



五.STMR:



注意：两个响度和 STMR 都是反着调。

六. MIDI 音量:

Speech Input FIR Coeff | Speech Output FIR Coeff | Melody FIR Coeff | Speech Enhancement | Audio Compensation
AEC | Play song in FAT | Custom volume setting | Audio test | Ring composer

Normal | Headset | Handfree | TV out

7 Level

Volume Level

Keypad Tone | Speech | Melody
Level 3 | Level 3 | Level 3

Volume Gain

Key Tone | Microphone | Speech | Side Tone | **Melody**

Melody

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
39	55	71	87	103	119	136

七. MP3 音量:

Keypad Tone | Speech | Melody
Level 3 | Level 3 | Level 3

Volume Gain

Key Tone | Microphone | Speech | Side Tone | **Melody**

Melody

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
39	55	71	87	103	119	136

16 Level

Max melody volume gain | Melody volume gain step
140 | 4

Upload from flash | Download to flash | Change NVRAM DB | Load from file | Save to file | **Generate nvram_default_audio.c**

上图中红色是调最大音量的，蓝色是调音阶大小，最后生成一个.c 文件给软件。

CTA 标准:

发送响度: SLR 值 (5 — 11db) ; 8

接收响度:

REC_NOM RLR 值(-1 — 5db) 2

REC_MAX RLR 值(大于 13db)

测音掩蔽: STMR 值 (8—18db) 18

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