



Audio & Video Calibration and Consulting

Calibration Report

Photo Research PR-670 Verified Color and Sencore SP-495 with
Earthworks M30 Microphone Sound Measurements



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Owner: Craig
Manufacturer: Vizio
Model: P65-C1
Calibrator: W. Jeff Meier
Date: May 11, 2017



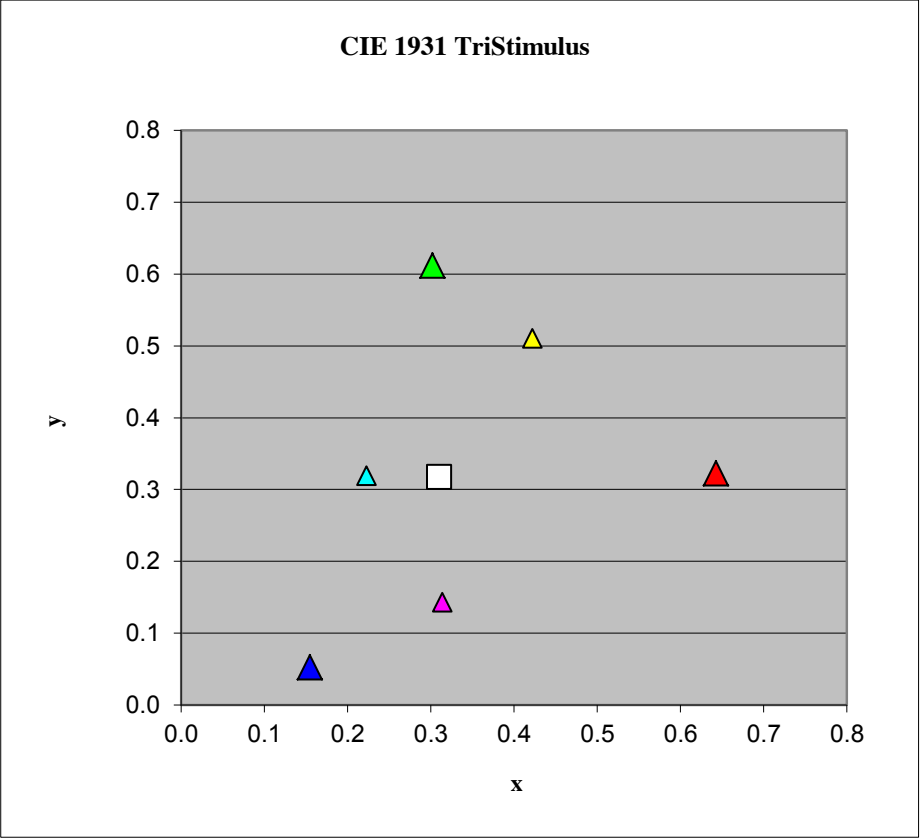
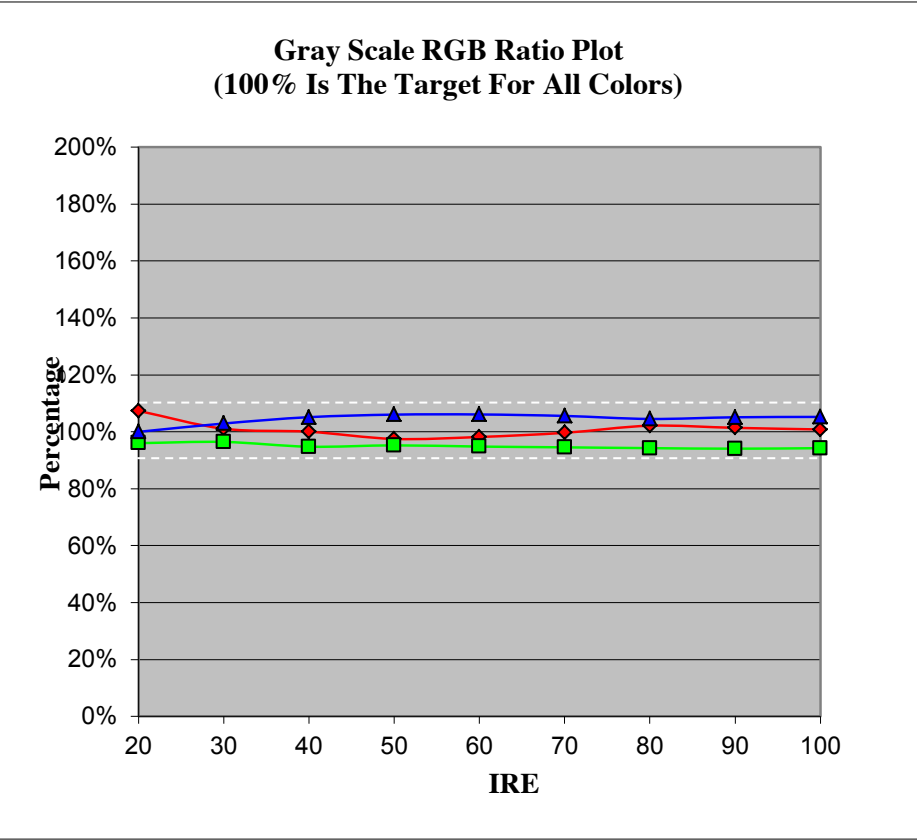
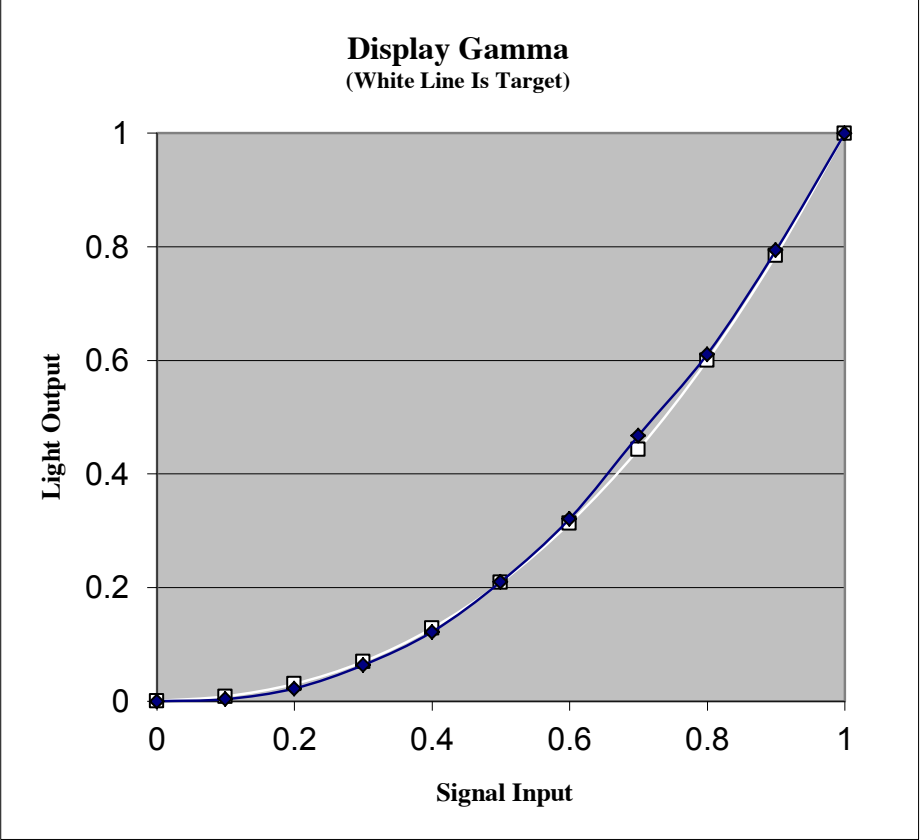
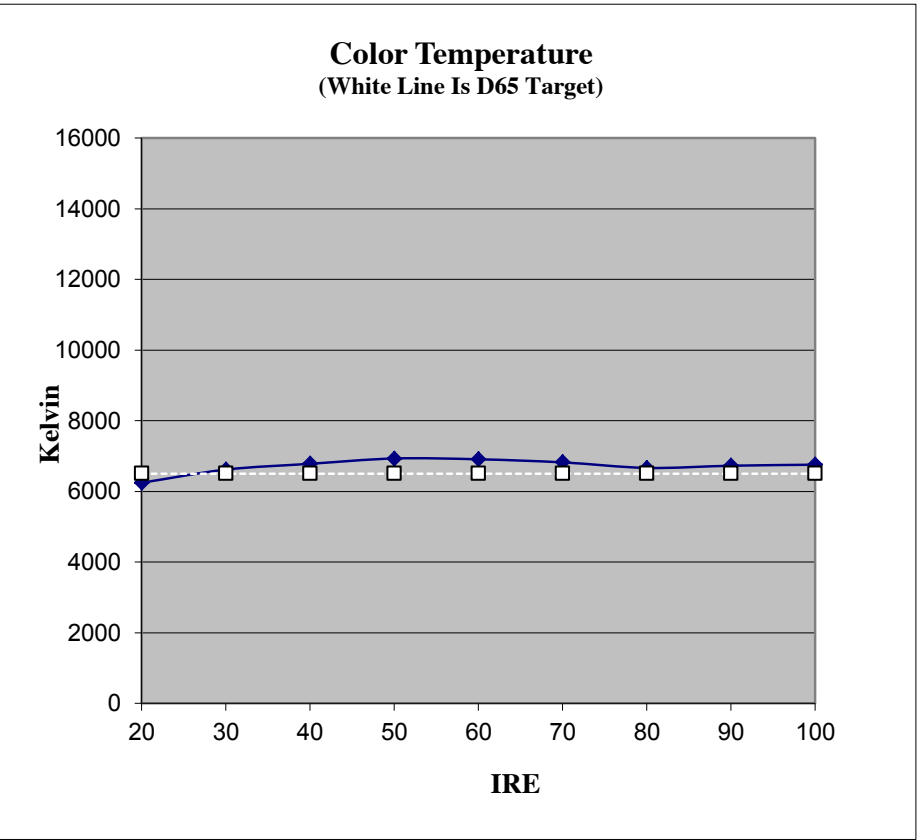
Pre Calibration Results

IRE	x	y	Y,fL	ΔE_{uv}^*	Kelvin	%Red	%Green	%Blue
0	0.4190	0.3910	0.004	84	-	202%	102%	44%
10	0.3429	0.3477	0.142	25	5071	129%	101%	84%
20	0.3180	0.3248	0.871	7	6244	107%	96%	100%
30	0.3118	0.3221	2.458	6	6616	101%	96%	103%
40	0.3097	0.3180	4.711	9	6780	100%	95%	105%
50	0.3073	0.3175	8.117	9	6931	98%	95%	106%
60	0.3078	0.3170	12.395	10	6908	98%	95%	106%
70	0.3091	0.3173	18.046	9	6820	100%	95%	106%
80	0.3116	0.3181	23.560	9	6664	102%	94%	105%
90	0.3107	0.3173	30.622	10	6726	101%	94%	105%
100	0.3102	0.3174	38.559	9	6755	101%	94%	105%

	x	y
Red	0.6428	0.3225
Green	0.3023	0.6118
Blue	0.1550	0.0521
Cyan	0.2231	0.3188
Magenta	0.3139	0.1426
Yellow	0.4223	0.5103
White	0.3099	0.3175
Skin	0.4287	0.3784
Sky	0.2474	0.2435
Foliage	0.3367	0.4311
Perceived Saturation		105%

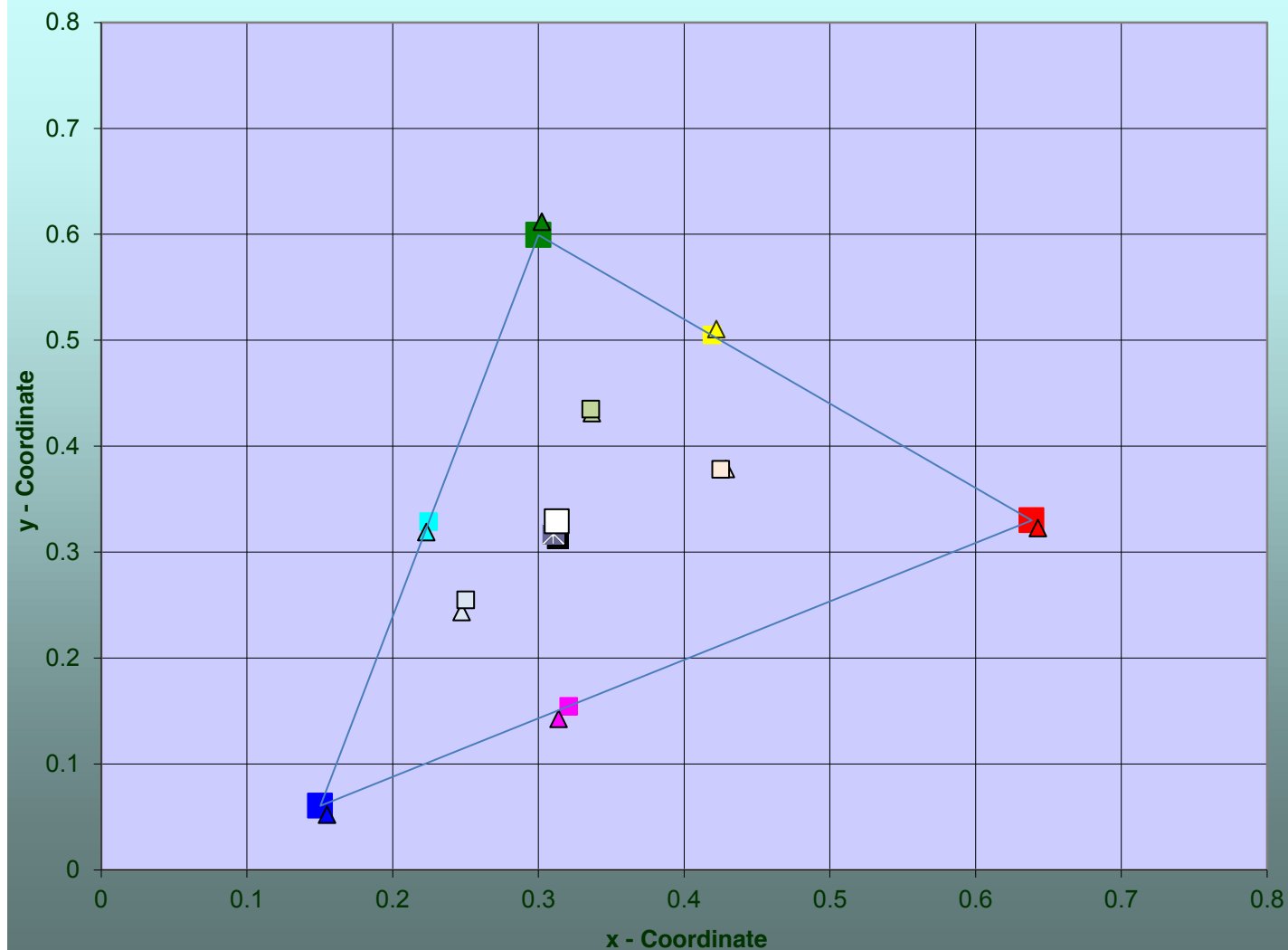
On/Off Contrast Ratio	9146
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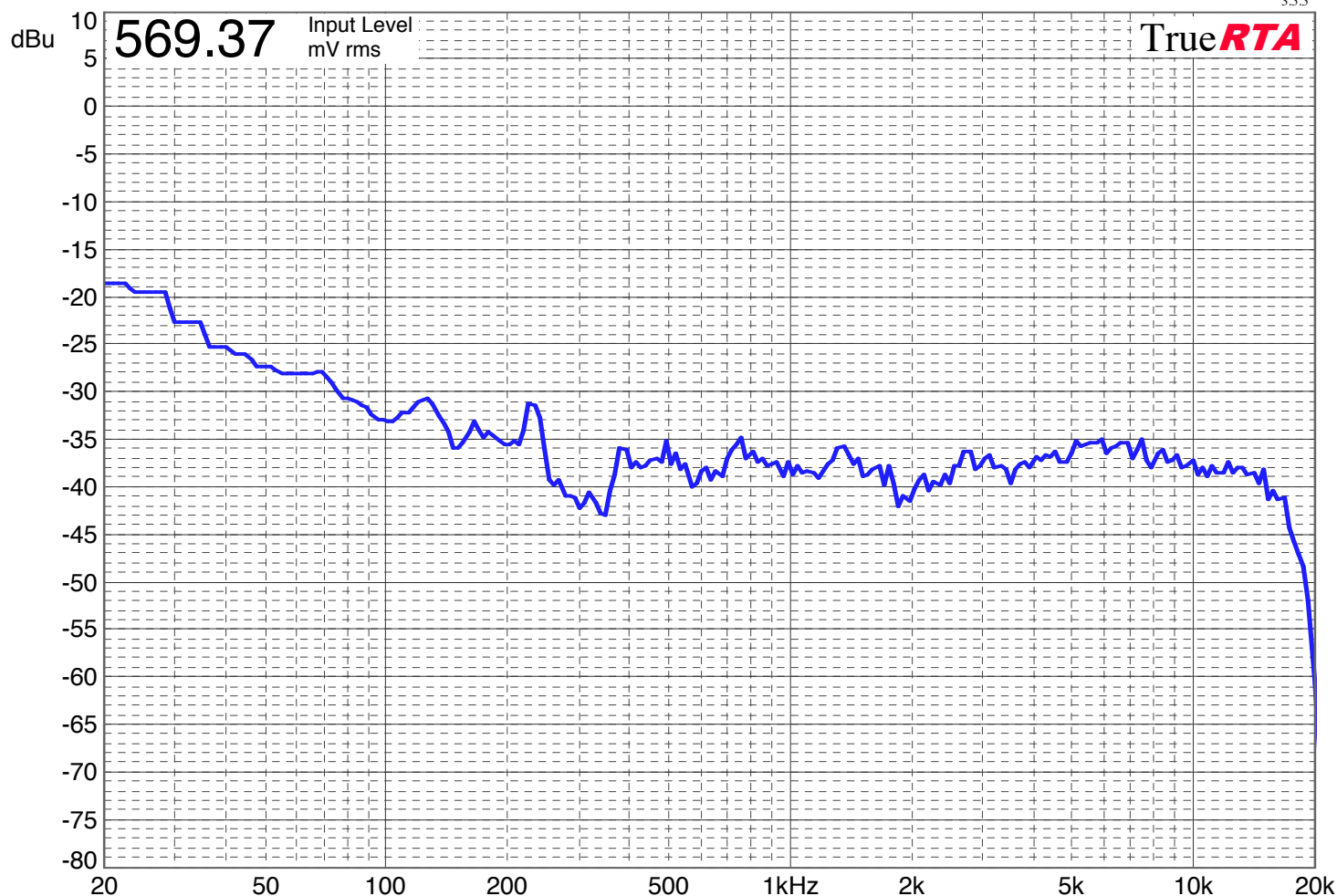
Target	Rec. 709 Color Space - BT. 1886 Gamma
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TriStimulus Chart CIE - 1931

**Rec. 709 Color
Space - BT. 1886
Gamma**





Workbench Notes:

- .1. Project Filename: Untitled Project Data acquired: 11May2017, 8:04 PM
- .2. Mic Cal File: TrueRTA AccuCal ACO Pacific MK224 Cal File.txt Input f(s) = 96 kHz Output f(s) = 44.1 kHz
- .3. House Curve File: TrueRTA AccuCal Small Room X-Curve.txt FFT Size = 16 k
- .4. Data was acquired manually Input Selection: L No. of Averages = 10
- .5. Sound System Correction: OFF Relative Mode: OFF Peak Hold: OFF

AccuCal

922 Lakespur Drive
Sugar Land, Texas 77479

281-565-2229

Measurements by: W Jeff Meier

Title: AV - Consultant

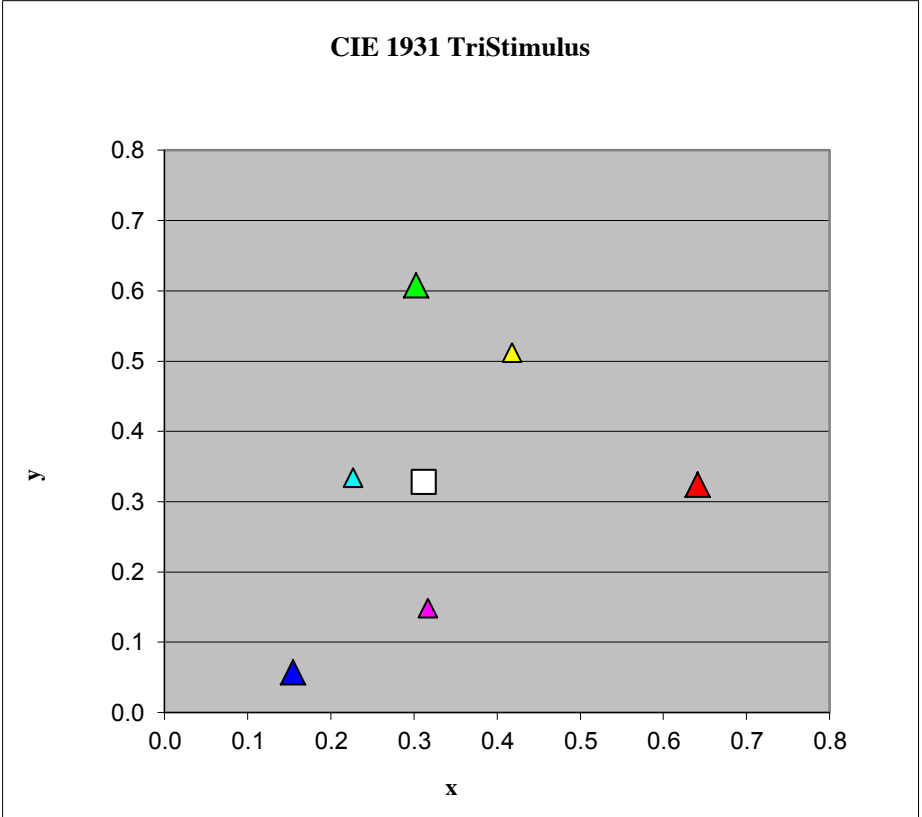
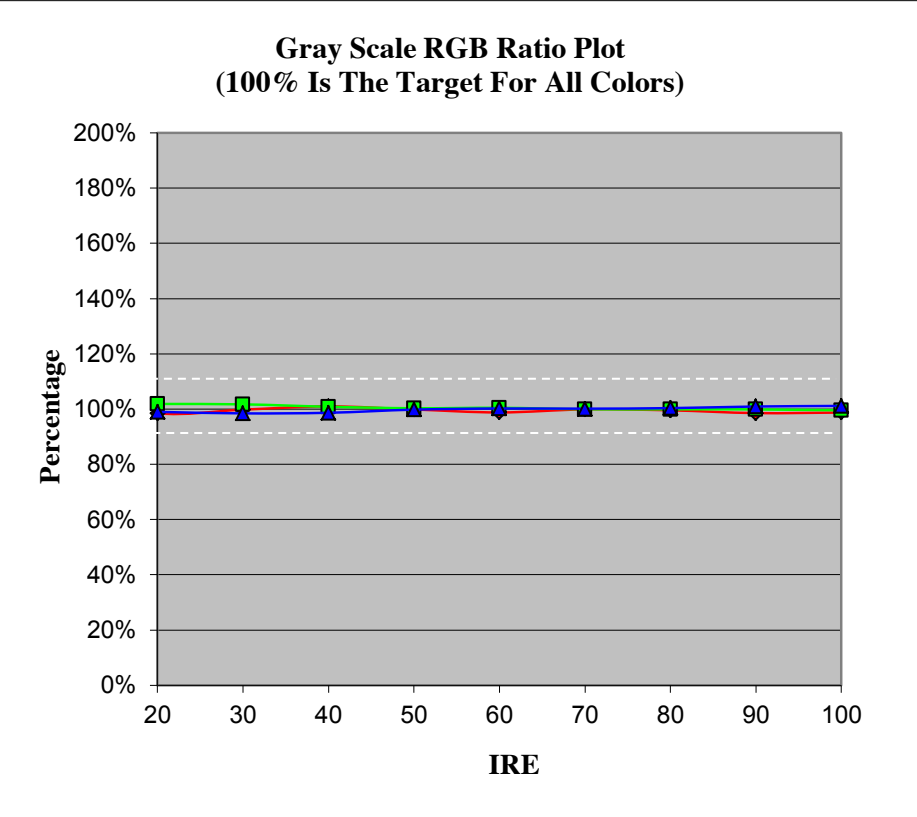
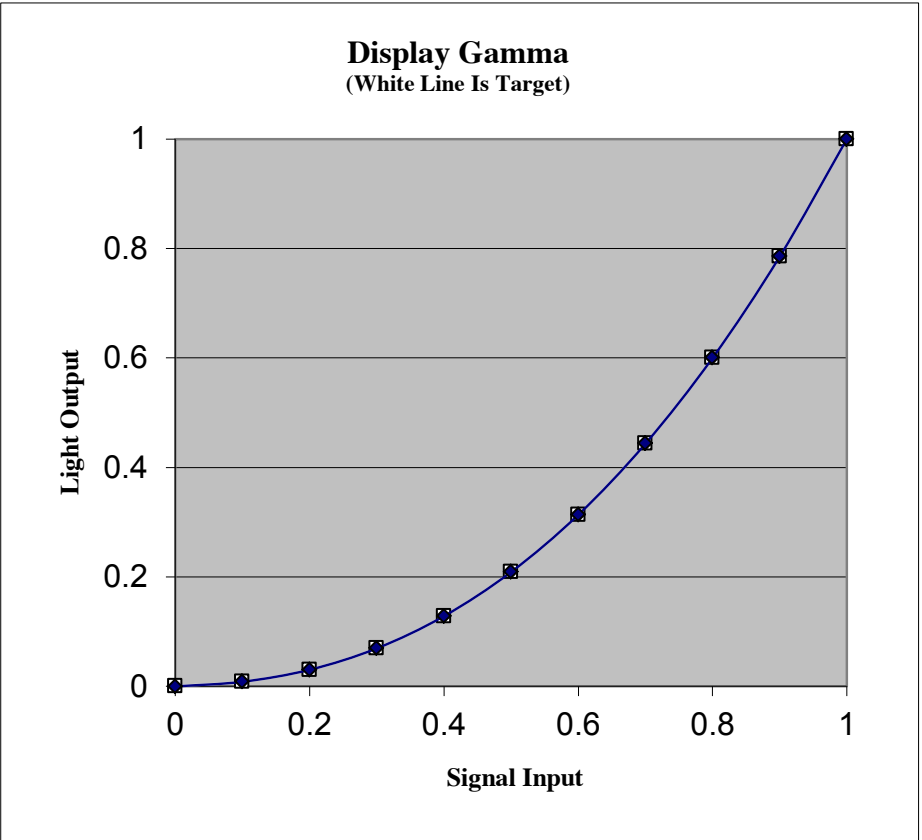
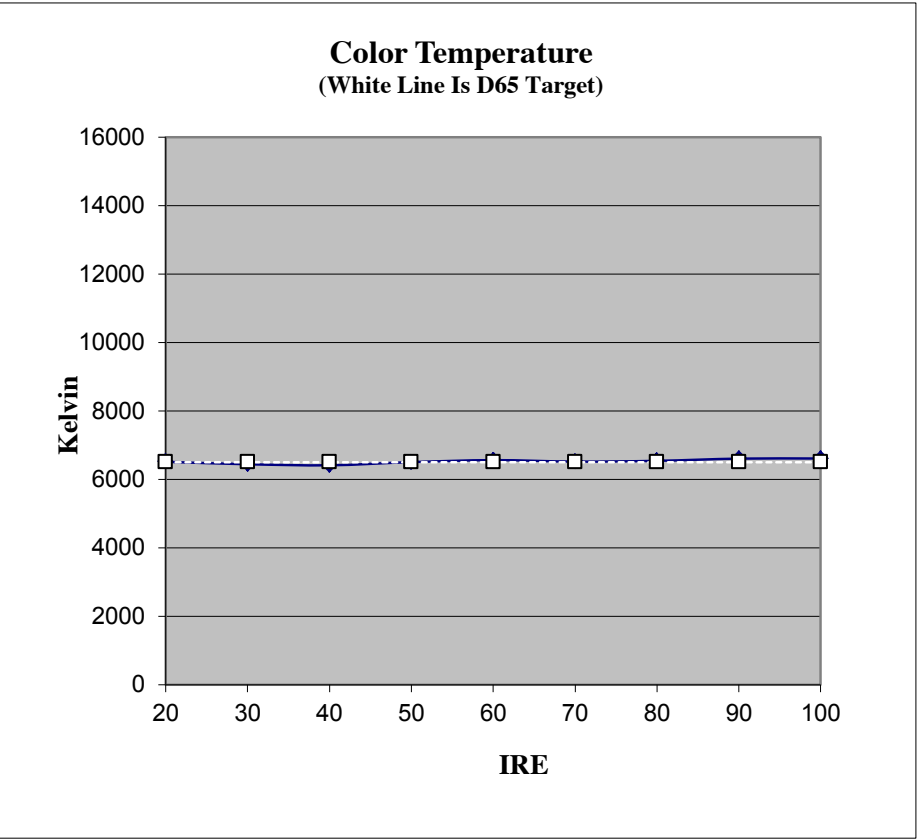
Post Calibration Results

IRE	x	y	Y,fL	ΔE_{uv}^*	Kelvin	%Red	%Green	%Blue
0	0.2796	0.2268	0.003	98	-	95%	53%	149%
10	0.3160	0.3222	0.354	8	6371	106%	95%	102%
20	0.3122	0.3320	1.255	3	6512	98%	102%	99%
30	0.3135	0.3325	2.862	3	6442	100%	102%	98%
40	0.3142	0.3313	5.281	2	6411	101%	101%	99%
50	0.3127	0.3295	8.599	0	6504	100%	100%	100%
60	0.3117	0.3293	12.892	1	6561	99%	100%	100%
70	0.3125	0.3288	18.230	0	6519	100%	100%	100%
80	0.3122	0.3285	24.673	0	6541	100%	100%	100%
90	0.3111	0.3279	32.280	1	6606	99%	100%	101%
100	0.3111	0.3273	41.105	2	6609	99%	100%	101%

	x	y
Red	0.6412	0.3241
Green	0.3023	0.6082
Blue	0.1547	0.0568
Cyan	0.2269	0.3340
Magenta	0.3168	0.1481
Yellow	0.4181	0.5119
White	0.3115	0.3285
Skin	0.4270	0.3807
Sky	0.2499	0.2572
Foliage	0.3380	0.4375
Perceived Saturation		101%

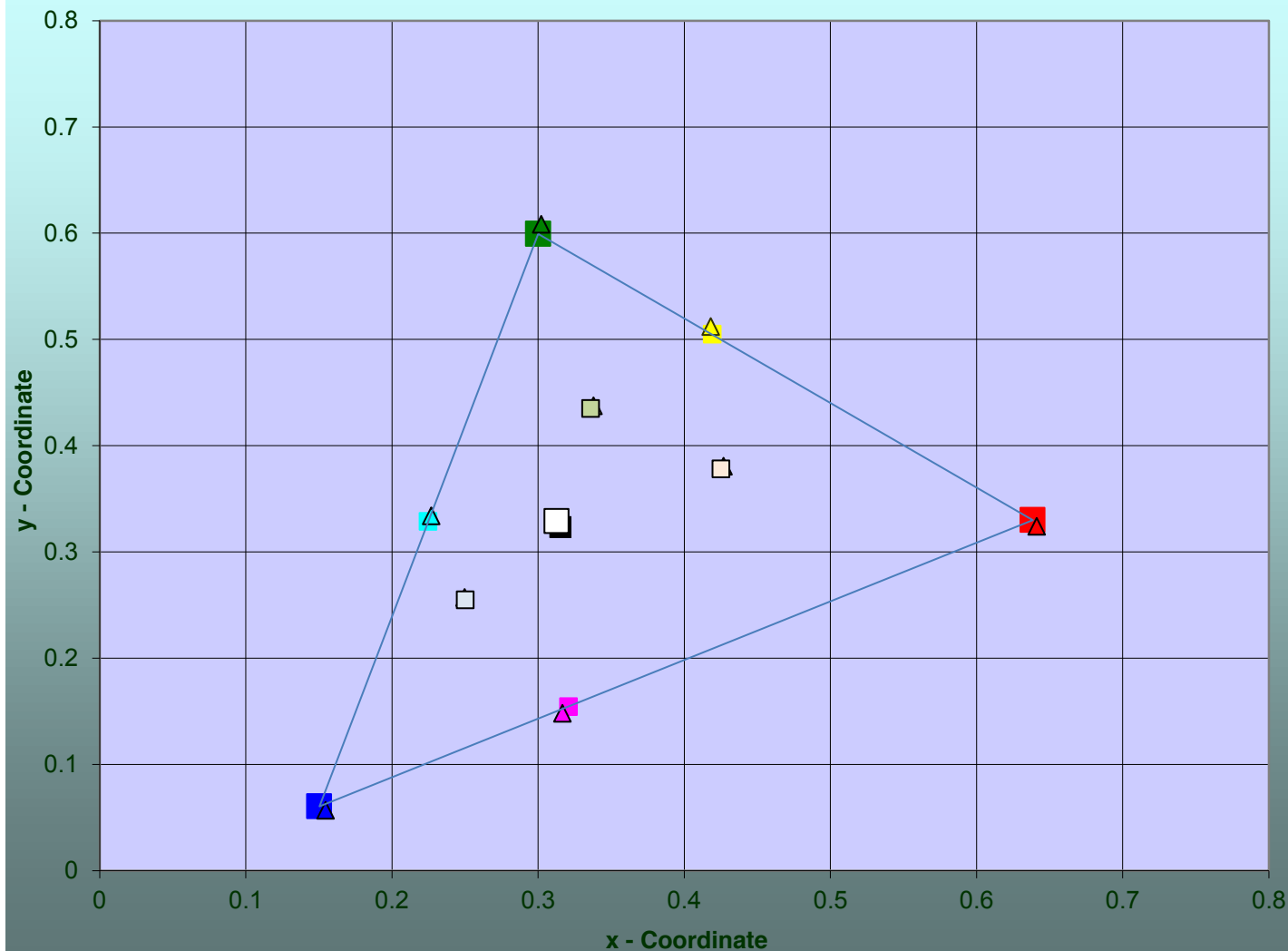
On/Off Contrast Ratio	15376
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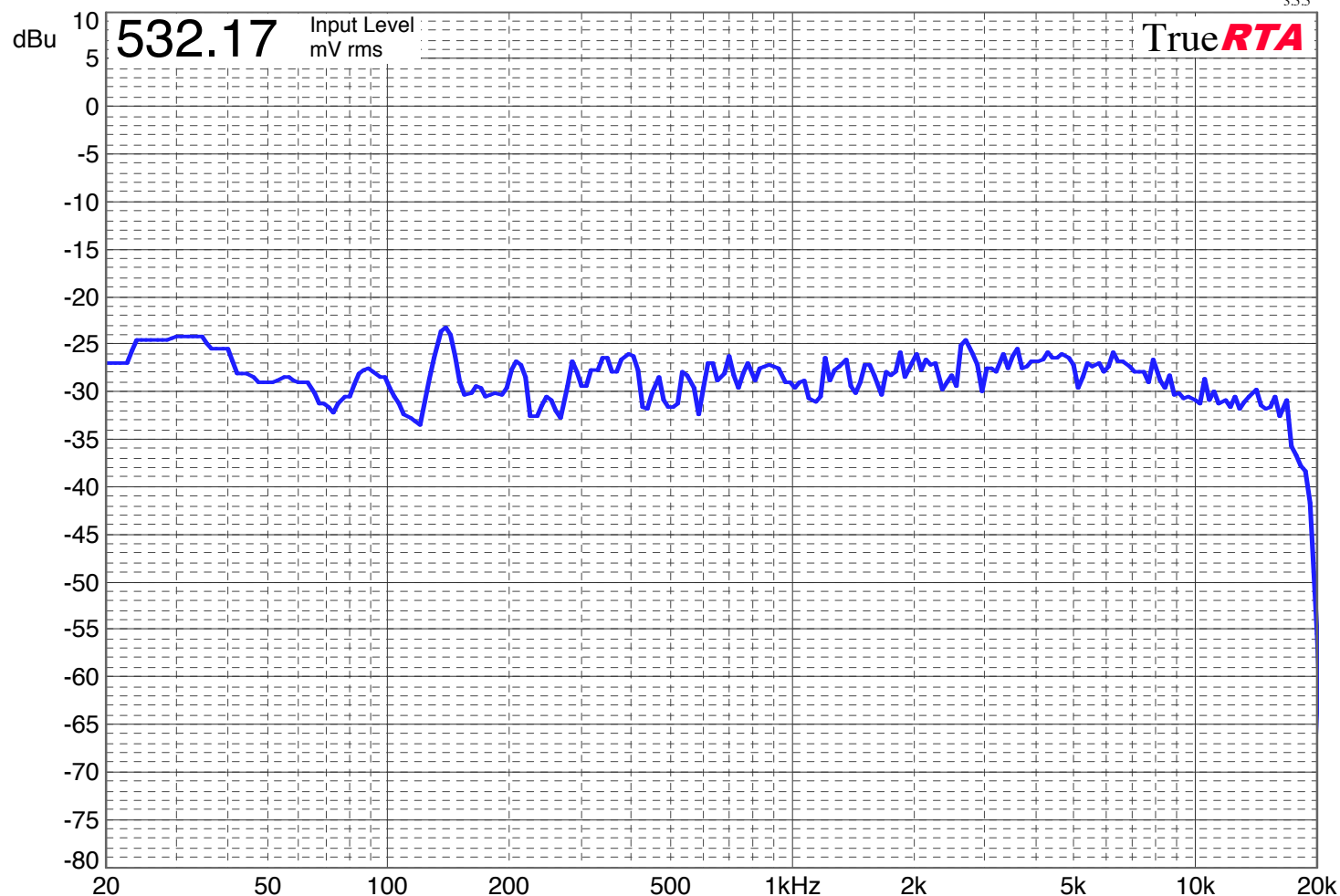
Target	Rec. 709 Color Space - BT. 1886 Gamma
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TriStimulus Chart CIE - 1931

**Rec. 709 Color
Space - BT. 1886
Gamma**





Workbench Notes:

1. Project Filename: Initial Audio.rta Data acquired: 11May2017, 9:03 PM
2. Mic Cal File: TrueRTA AccuCal ACO Pacific MK224 Cal File.txt Input f(s) = 96 kHz Output f(s) = 44.1 kHz
3. House Curve File: TrueRTA AccuCal Small Room X-Curve.txt FFT Size = 16 k
4. Data was acquired manually Input Selection: L No. of Averages = 10
5. Sound System Correction: OFF Relative Mode: OFF Peak Hold: OFF

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Vizio Display Settings

Picture Mode AccuCal Bright

Backlight 28
Brightness 49
Contrast 50
Color 48
Sharpness 0
Tint -1
Color Temperature Normal
Black Detail Off
Active LED Zones Off
Reduce Judder 0
Reduce Motion Blur 0
Clear Action Off
Reduce Sdnal Noise Off
Reduce Block Noise Off
Game Low Latency Off
Pure Cinema On
Color Space Auto
Gamma 2.2
Color Tuner
Hue all 0
Saturation all 0
Brightness all 0
Offset
Red -4
Green 0
Blue 0
Gain
Red -6
Green 0
Blue 6
11 Point
30% Red 3
40% Red 8
50% Red 15
60% Red 12
70% Red 11

Picture Mode AccuCal Dark

Backlight 13
Brightness 49
Contrast 50
Color 48
Sharpness 0
Tint -1
Color Temperature Normal
Black Detail Off
Active LED Zones Off
Reduce Judder 0
Reduce Motion Blur 0
Clear Action Off
Reduce Sdnal Noise Off
Reduce Block Noise Off
Game Low Latency Off
Pure Cinema On
Color Space Auto
Gamma 2.2
Color Tuner
Hue all 0

Saturation all 0
Brightness all 0
Offset
 Red -4
 Green 0
 Blue 0
Gain
 Red -6
 Green 0
 Blue 6
11 Point
 30% Red 3
 40% Red 8
 50% Red 15
 60% Red 12
 70% Red 11

Picture Mode AccuCal HDR

Backlight 50
Brightness 51
Contrast 50
Color 57
Sharpness 0
Tint 0
Color Temperature Normal
Black Detail Off
Active LED Zones Off
Reduce Judder 0
Reduce Motion Blur 0
Clear Action Off
Reduce Signal Noise Off
Reduce Block Noise Off
Game Low Latency Off
Pure Cinema On
Color Space Auto
Gamma 2.4
Color Tuner
 Hue all 0
 Saturation all 0
 Brightness all 0
 Offset
 Red -4
 Green 0
 Blue 0
 Gain
 Red -6
 Green 0
 Blue 6

Picture Mode AccuCal Dolby V

Backlight 72
Brightness 51
Contrast 50
Color 52
Sharpness 0
Tint 0
Color Temperature Normal
Black Detail Off
Active LED Zones Off
Reduce Judder 0
Reduce Motion Blur 0

Clear Action Off
Reduce Sdnal Noise Off
Reduce Block Noise Off
Game Low Latency Off
Pure Cinema On
Color Space Auto
Gamma 2.1
Color Tuner
Hue all 0
Saturation all 0
Brightness all 0
Offset
Red -4
Green 0
Blue 0
Gain
Red -6
Green 0
Blue 6

Denon Receiver Settings

All Speakers Small
Front L 9.0ft
Front R 9.0ft
Center 8.4ft
Subwoofer 1 8.8ft
Subwoofer 2 8.8ft
Surround L 6.0ft
Surround R 6.0ft
Top Middle L 7.4ft
Top Middle R 7.7ft
Front L +3.5db
Center +4.5db
Front R +3.5db
Surround R +7.0db
Surround L +7.5db
Top Middle R +3.5db
Top Middle L +1.5db
Subwoofer 1 +1.0db
Subwoofer 2 +1.0db
Speakers Crossovers All 90Hz
Subwoofer Mode LFE
LPF for LFE 120Hz
2ch Playback Auto
Dialog Level Adjust off
Graphic EQ Off
Front L
63Hz -2.5db
125Hz -2.5db
1kHz -2.0db
16kHz +1.5db
Front R
63Hz -4.5db
1kHz -3.0db
8kHz -2.0db
16kHz +1.5db
Center
63Hz -5.0db
125Hz -3.0db
500Hz -3.0db
1kHz -1.5db
8kHz -0.5db

Notes.txt

16kHz +2.0db
Surround L
125Hz -3.0db
250Hz -3.0db
500Hz -3.0db
1kHz -2.5db
2kHz +1.0db
16kHz +2.0db
Surround R
125Hz -6.5db
250Hz -8.5db
16kHz +2.0db
Top Middle L
125Hz -2.5db
250Hz -1.5db
500Hz +1.5db
Top Middle R
125Hz -2.0db
250Hz -6.5db
500Hz +1.0db
1kHz -1.5db

Subwoofer Settings

Level -10db
Phase 0 deg
Room Gain 40Hz -12db

AccuCal™

AccuCal AVSM

This service will ensure you are receiving peak performance from your home theater system. State of the art test equipment and design tools are used to achieve optimal results from your display and sound system.



Services Include:

- Video calibration to refine color, contrast and resolution to achieve the through the window look you paid for.
- Audio calibration to optimize your system's frequency response, clarity and balance so you can enjoy the sound as it was meant to be heard.

- Consultation to aid you in the selection of equipment that matches your needs and budget.
- Acoustical design and strategic speaker placement to immerse the room with vibrant sound.
- Video design to attain maximum display performance within your room.

Experience:

- Over two thousand audio and video systems.
- Degreed engineer.
- Modest to high end.



Your path to the Home Theater ExperienceSM