rpsa
FIRE PROTECTION ENGINEERS
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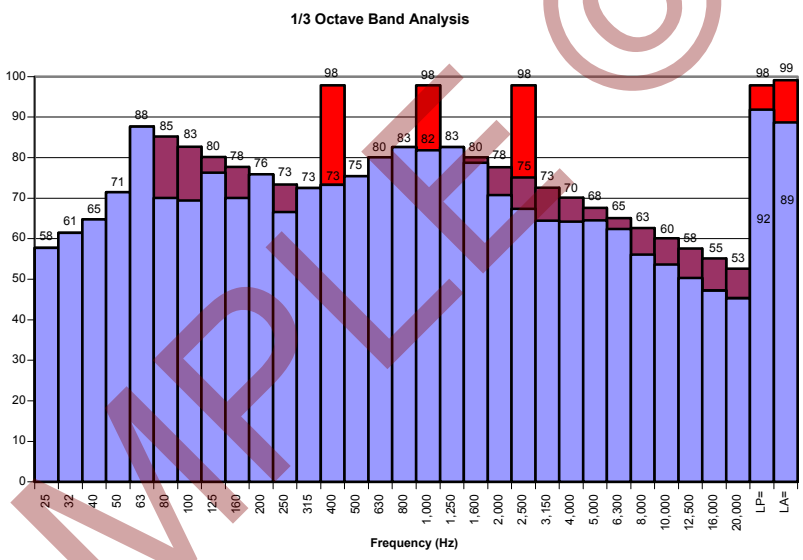
Project #: 1000b
Name: Sample Project Name
Location
City, ST ZIP
Date: 2011 03 28
Test #: 1-1
Measurement Location:
Data Filename: 1-1.txt

Time Weighting: ○ Slow ○ Medium ◉ Fast

Measurement: ◉ RMS ○ Peak ○ Max

Center freq. Hz	Noise dB	Masked Noise dB
25	57.7	58
32	61.5	61
40	64.8	65
50	71.4	71
63	87.7	88
80	70.1	85
100	69.4	83
125	76.3	80
160	70.0	78
200	75.9	76
250	66.6	73
315	72.5	73
400	73.3	73
500	75.4	75
630	80.1	80
800	82.6	83
1,000	81.8	82
1,250	82.6	83
1,600	78.7	80
2,000	70.7	78
2,500	67.4	75
3,150	64.4	73
4,000	64.2	70
5,000	64.5	68
6,300	62.4	65
8,000	56.1	63
10,000	53.6	60
12,500	50.3	58
16,000	47.2	55
20,000	45.4	53
L_P=	92	



Weighting: Flat, dB

NOISE DATA

NOISE - EFFECTIVE MASKED THRESHOLD

ALARM SIGNAL

For this measurement location:

Required Alarm SPL: 95 dB

Design SPL: 98 dB

Notes:

Code-required Alarm Signal must be 13 dB greater than Masked Threshold in at least one 1/3 octave band.
Analysis includes calculation of the 13 dB signal-to-noise ratio for each of the three recommended one-third octave bands (400, 1000 and 2500 Hz). An additional 3 dB factor of safety is added and the results plotted.
Design Signal exceeds Masked Threshold by 16 dB in at least one, 1/3rd octave band.
Proposed alert signal : Modification of the international telephone Special Information Tone (SIT), Vacant Code (VC) defined in ANSI T1.209.

	1st Segment		2nd Segment		3rd Segment	
Type	Frequency (Hz)	Duration (ms)	Frequency (Hz)	Duration (ms)	Frequency (Hz)	Duration (ms)
rpsa mod*	400 Hz sq wave	380	1000 Hz	274	2500	380

CLICK TO PLAY ALERT TONE