

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039567.D
 Acq On : 18 Aug 2022 20:23
 Operator : SY/AP
 Sample : N3980-13 4.5 LOD
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2022

Quant Time: Aug 19 03:04:46 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	919016	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.665	114	2520039	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2346904	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1817696	10.288	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.755	85	85000	0.688	ppbv	92
3) Chlorodifluoromethane	2.700	51	57169	0.519	ppbv	96
4) Chloromethane	2.835	50	33746	0.512	ppbv #	88
5) Vinyl Chloride	2.944	62	27288	0.480	ppbv	95
6) Bromomethane	3.144	94	11415m	0.491	ppbv	
7) Chloroethane	3.218	64	11754	0.581	ppbv #	80
8) Dichlorotetrafluoroethane	2.877	85	70539	0.532	ppbv	97
9) Propene	2.716	41	29207	0.582	ppbv	97
10) Heptane	7.587	43	46432m	0.398	ppbv	
11) Trichlorofluoromethane	3.587	101	67030	0.494	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.089	101	51886	0.518	ppbv	98
13) Ethanol	3.276	45	2903m	0.804	ppbv	
14) Bromoethene	3.391	108	19530	0.477	ppbv #	86
15) Acetone	3.501	43	61313m	0.591	ppbv	
16) 1,3-Butadiene	3.006	39	22269	0.413	ppbv	87
17) tert-Butyl alcohol	3.915	59	30702	0.346	ppbv #	84
18) 1,1-Dichloroethene	3.899	96	22729m	0.503	ppbv	
19) Isopropyl Alcohol	3.616	45	29888m	0.589	ppbv	
20) Methylene Chloride	3.954	84	25402	0.601	ppbv	86
21) Allyl Chloride	4.015	41	34216m	0.507	ppbv	
22) trans-1,2-Dichloroethene	4.465	96	19923	0.444	ppbv #	70
23) Vinyl Acetate	4.652	43	33212m	0.636	ppbv	
24) 1,1-Dichloroethane	4.581	63	47077	0.512	ppbv	100
25) Ethyl Acetate	5.234	43	95145	0.430	ppbv #	96
26) Hexane	5.227	57	41617m	0.458	ppbv	
27) Carbon Disulfide	4.147	76	45403m	0.469	ppbv	
28) Methyl tert-Butyl Ether	4.616	73	35380m	0.443	ppbv	
29) Chloroform	5.292	83	70477	0.496	ppbv	94
30) Cyclohexane	6.620	84	32668m	0.433	ppbv	
31) cis-1,2-Dichloroethene	5.095	61	32832	0.374	ppbv #	86
32) 1,1,1-Trichloroethane	6.021	97	67899m	0.509	ppbv	
34) 2-Butanone	4.819	43	55733	0.440	ppbv	96
35) Carbon Tetrachloride	6.510	117	62996m	0.444	ppbv	
36) Benzene	6.385	78	74902	0.390	ppbv	99
37) 1,2-Dichloroethane	5.822	62	47483	0.445	ppbv	99
38) Trichloroethene	7.308	130	42239	0.405	ppbv	97
39) 1,2-Dichloropropane	7.086	63	31930	0.444	ppbv	92
40) 1,4-Dioxane	7.333	88	11619m	0.407	ppbv	
41) Tetrahydrofuran	5.600	42	26816m	0.360	ppbv	
42) Bromodichloromethane	7.256	83	60466	0.415	ppbv #	84
43) Methyl Methacrylate	7.494	69	22725	0.327	ppbv	90
44) 2,2,4-Trimethylpentane	7.337	57	130551	0.403	ppbv #	90
45) t-1,3-Dichloropropene	8.716	75	17445m	0.285	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	25779	0.306	ppbv	89
47) 1,1,2-Trichloroethane	8.909	97	36687	0.445	ppbv #	85
48) Dibromochloromethane	9.716	129	49148m	0.401	ppbv	
49) Bromoform	12.414	173	36806m	0.363	ppbv	
50) 4-Methyl-2-Pentanone	8.214	43	67443	0.346	ppbv	99
51) 2-Hexanone	9.587	43	48828m	0.340	ppbv	
52) Tetrachloroethene	10.623	164	32206m	0.428	ppbv	
53) Toluene	9.227	91	71744m	0.333	ppbv	
54) 1,2-Dibromoethane	10.018	107	34984	0.372	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.520	131	45224m	0.468	ppbv	
57) Chlorobenzene	11.533	112	86835	0.492	ppbv	94
58) Ethyl Benzene	12.098	91	96429	0.355	ppbv	96
59) m/p-Xylene	12.388	91	188652m	0.772	ppbv	
60) o-Xylene	13.066	91	85910	0.367	ppbv	100
61) Styrene	12.902	104	36243m	0.290	ppbv	
62) Isopropylbenzene	14.040	105	147595	0.416	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.063	83	53146m	0.451	ppbv	
64) n-propylbenzene	14.925	120	34307m	0.371	ppbv	
65) tert-Butylbenzene	16.098	119	127256m	0.403	ppbv	
66) Benzyl Chloride	16.343	91	11751m	0.433	ppbv	
67) sec-Butylbenzene	16.648	105	181423	0.406	ppbv	98
69) p-Isopropyltoluene	17.008	119	131686	0.354	ppbv #	91
70) n-Butylbenzene	17.896	91	132142	0.358	ppbv	98
71) 2-Chlorotoluene	14.806	91	98613m	0.384	ppbv	
72) 4-Ethyltoluene	15.204	105	91545	0.333	ppbv #	100
73) 1,3,5-Trimethylbenzene	15.368	105	98289m	0.391	ppbv	
74) 1,2,4-Trimethylbenzene	16.118	105	109480	0.391	ppbv	93
75) 1,3-Dichlorobenzene	16.339	146	69553	0.408	ppbv	92
76) 1,4-Dichlorobenzene	16.481	146	70030	0.411	ppbv	91
77) 1,2-Dichlorobenzene	17.156	146	75965	0.455	ppbv	98
78) Hexachloro-1,3-Butadiene	22.635	225	65851m	0.497	ppbv	
79) Naphthalene	21.397	128	67034m	0.336	ppbv	
80) Naphthalene,2-methyl-	24.387	142	15164	0.192	ppbv #	100
81) 1,2,4-Trichlorobenzene	21.156	180	49836m	0.375	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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