

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036990.D
 Acq On : 19 May 2021 13:37
 Operator : SY/AP
 Sample : M2262-15 0.40
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Manual Integrations
 APPROVED

SAM
 5/24/2021 5:09:36 PM

Quant Time: May 21 16:50:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1200963	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3766525	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3487148	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2608425	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	108765	0.534	ppbv	92
3) Chlorodifluoromethane	2.97	51	109277	0.497	ppbv	99
4) Chloromethane	3.12	50	33106	0.442	ppbv	89
5) Vinyl Chloride	3.24	62	33438	0.409	ppbv	92
6) Bromomethane	3.46	94	18927	0.439	ppbv	90
7) Chloroethane	3.54	64	13104m	0.493	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	93858	0.491	ppbv	99
9) Propene	2.99	41	39653	0.503	ppbv	95
10) Heptane	8.10	43	81657	0.416	ppbv	97
11) Trichlorofluoromethane	3.93	101	87600	0.465	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.46	101	63308	0.471	ppbv	96
13) Ethanol	3.62	45	5242m	0.499	ppbv	
14) Bromoethene	3.72	108	26916m	0.455	ppbv	
15) Acetone	3.86	43	66157	0.538	ppbv #	76
16) 1,3-Butadiene	3.31	39	36481m	0.477	ppbv	
17) tert-Butyl alcohol	4.32	59	48166m	0.427	ppbv	
18) 1,1-Dichloroethene	4.27	96	29922m	0.482	ppbv	
19) Isopropyl Alcohol	3.99	45	33814m	0.511	ppbv	
20) Methylene Chloride	4.32	84	35329	0.536	ppbv	96
21) Allyl Chloride	4.39	41	41371m	0.446	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	24528	0.412	ppbv #	76
23) Vinyl Acetate	5.08	43	77333m	0.396	ppbv	
24) 1,1-Dichloroethane	4.99	63	59134	0.421	ppbv	99
25) Ethyl Acetate	5.67	43	128256m	0.434	ppbv	
26) Hexane	5.66	57	62389	0.413	ppbv	93
27) Carbon Disulfide	4.53	76	45601	0.300	ppbv #	61
28) Methyl tert-Butyl Ether	5.03	73	72959	0.403	ppbv	99
29) Chloroform	5.73	83	92851	0.435	ppbv	96
30) Cyclohexane	7.10	84	56082	0.437	ppbv	86
31) cis-1,2-Dichloroethene	5.53	61	51917	0.383	ppbv	92
32) 1,1,1-Trichloroethane	6.49	97	92189m	0.402	ppbv	
34) 2-Butanone	5.24	43	50033	0.365	ppbv #	82
35) Carbon Tetrachloride	7.00	117	89562	0.358	ppbv	92
36) Benzene	6.87	78	135176	0.417	ppbv	97
37) 1,2-Dichloroethane	6.28	62	64669	0.402	ppbv	98
38) Trichloroethene	7.81	130	57448m	0.414	ppbv	
39) 1,2-Dichloropropane	7.59	63	53058m	0.425	ppbv	
40) 1,4-Dioxane	7.86	88	11782m	0.399	ppbv	
41) Tetrahydrofuran	6.07	42	30550m	0.391	ppbv	
42) Bromodichloromethane	7.77	83	87427m	0.359	ppbv	
43) Methyl Methacrylate	8.00	69	39621m	0.354	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	243108	0.437	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	20222m	0.237	ppbv	
46) cis-1,3-Dichloropropene	8.68	75	31405m	0.273	ppbv	
47) 1,1,2-Trichloroethane	9.45	97	55777m	0.426	ppbv	
48) Dibromochloromethane	10.28	129	65790m	0.311	ppbv	
49) Bromoform	13.01	173	41834	0.239	ppbv	91
50) 4-Methyl-2-Pentanone	8.75	43	85260m	0.377	ppbv	
51) 2-Hexanone	10.15	43	42324m	0.354	ppbv	
52) Tetrachloroethene	11.20	164	55362	0.429	ppbv	93
53) Toluene	9.78	91	154667	0.401	ppbv	97
54) 1,2-Dibromoethane	10.59	107	74721m	0.402	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	55379m	0.377	ppbv	
57) Chlorobenzene	12.12	112	127279m	0.471	ppbv	
58) Ethyl Benzene	12.68	91	205464	0.417	ppbv	91
59) m/p-Xylene	12.97	91	351621m	0.864	ppbv	
60) o-Xylene	13.66	91	166699	0.430	ppbv	99
61) Styrene	13.50	104	75687	0.346	ppbv	90
62) Isopropylbenzene	14.64	105	237069	0.425	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	104984	0.362	ppbv	87
64) n-propylbenzene	15.54	120	55229	0.384	ppbv #	56
65) tert-Butylbenzene	16.73	119	228672m	0.454	ppbv	
66) Benzyl Chloride	16.97	91	7675m	0.275	ppbv	
67) sec-Butylbenzene	17.27	105	283555	0.413	ppbv	99
69) p-Isopropyltoluene	17.63	119	250439m	0.424	ppbv	
70) n-Butylbenzene	18.53	91	210660	0.376	ppbv	99
71) 2-Chlorotoluene	15.43	91	173594m	0.431	ppbv	
72) 4-Ethyltoluene	15.82	105	181627	0.394	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.98	105	183398m	0.424	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	193230m	0.432	ppbv	
75) 1,3-Dichlorobenzene	16.98	146	114674m	0.420	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	118578m	0.430	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	121212m	0.443	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	96957	0.441	ppbv	95
79) Naphthalene	22.18	128	108099m	0.308	ppbv	
80) Naphthalene, 2-methyl-	25.00	142	18789m	0.246	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	76687m	0.359	ppbv	

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

