

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052521\
 Data File : VL037058.D
 Acq On : 25 May 2021 13:22
 Operator : SY/AP
 Sample : M2262-15 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 5/27/2021 10:31:29 AM

Quant Time: May 26 01:24:54 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 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	1113795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3347017	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3042723	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2128166	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	123641	0.654	ppbv	97
3) Chlorodifluoromethane	2.97	51	129020	0.632	ppbv	94
4) Chloromethane	3.12	50	38058m	0.548	ppbv	
5) Vinyl Chloride	3.24	62	41808	0.551	ppbv	96
6) Bromomethane	3.46	94	25385m	0.635	ppbv	
7) Chloroethane	3.55	64	15205m	0.617	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	110645	0.624	ppbv	96
9) Propene	2.99	41	40297	0.552	ppbv	93
10) Heptane	8.10	43	88783m	0.488	ppbv	
11) Trichlorofluoromethane	3.93	101	108828m	0.622	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	78999	0.634	ppbv	95
13) Ethanol	3.62	45	8440m	0.866	ppbv	
14) Bromoethene	3.73	108	26049m	0.475	ppbv	
15) Acetone	3.86	43	69919	0.613	ppbv #	65
16) 1,3-Butadiene	3.31	39	39733m	0.561	ppbv	
17) tert-Butyl alcohol	4.32	59	60927m	0.583	ppbv	
18) 1,1-Dichloroethene	4.28	96	33484m	0.581	ppbv	
19) Isopropyl Alcohol	3.99	45	42130m	0.687	ppbv	
20) Methylene Chloride	4.33	84	49991	0.817	ppbv	96
21) Allyl Chloride	4.40	41	43465	0.505	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	32092m	0.581	ppbv	
23) Vinyl Acetate	5.07	43	59151	0.327	ppbv #	92
24) 1,1-Dichloroethane	4.99	63	64620	0.496	ppbv #	94
25) Ethyl Acetate	5.67	43	135004	0.492	ppbv #	97
26) Hexane	5.66	57	76305	0.545	ppbv	91
27) Carbon Disulfide	4.53	76	52397	0.371	ppbv #	94
28) Methyl tert-Butyl Ether	5.04	73	69212	0.412	ppbv	97
29) Chloroform	5.74	83	115262	0.583	ppbv	95
30) Cyclohexane	7.10	84	55625	0.467	ppbv #	91
31) cis-1,2-Dichloroethene	5.53	61	62820	0.500	ppbv #	86
32) 1,1,1-Trichloroethane	6.49	97	106097	0.499	ppbv	95
34) 2-Butanone	5.26	43	43365	0.356	ppbv #	75
35) Carbon Tetrachloride	7.00	117	110807	0.498	ppbv	92
36) Benzene	6.87	78	148637	0.516	ppbv	99
37) 1,2-Dichloroethane	6.29	62	83220m	0.582	ppbv	
38) Trichloroethene	7.81	130	60786	0.493	ppbv	87
39) 1,2-Dichloropropane	7.59	63	52070	0.469	ppbv #	83
40) 1,4-Dioxane	7.86	88	19787m	0.755	ppbv	
41) Tetrahydrofuran	6.07	42	32206m	0.464	ppbv	
42) Bromodichloromethane	7.77	83	105121m	0.486	ppbv	
43) Methyl Methacrylate	8.01	69	37333	0.376	ppbv	81

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	254278m	0.514	ppbv	
45) t-1,3-Dichloropropene	9.26	75	25333m	0.334	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	38379	0.376	ppbv	89
47) 1,1,2-Trichloroethane	9.46	97	62768	0.540	ppbv	95
48) Dibromochloromethane	10.28	129	75536m	0.401	ppbv	
49) Bromoform	13.01	173	51048m	0.328	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	88561m	0.440	ppbv	
51) 2-Hexanone	10.15	43	40646m	0.382	ppbv	
52) Tetrachloroethene	11.20	164	62585m	0.546	ppbv	
53) Toluene	9.78	91	154079	0.449	ppbv	98
54) 1,2-Dibromoethane	10.59	107	77307	0.468	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.10	131	67226	0.525	ppbv #	1
57) Chlorobenzene	12.13	112	140073	0.594	ppbv	94
58) Ethyl Benzene	12.69	91	219278	0.511	ppbv	96
59) m/p-Xylene	12.98	91	373723m	1.053	ppbv	
60) o-Xylene	13.67	91	181075	0.535	ppbv	98
61) Styrene	13.51	104	76959	0.403	ppbv #	85
62) Isopropylbenzene	14.64	105	263890	0.542	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.66	83	127027	0.502	ppbv	97
64) n-propylbenzene	15.54	120	61434m	0.489	ppbv	
65) tert-Butylbenzene	16.73	119	240463	0.548	ppbv	95
66) Benzyl Chloride	16.97	91	8695m	0.357	ppbv	
67) sec-Butylbenzene	17.28	105	282767	0.472	ppbv	100
69) p-Isopropyltoluene	17.64	119	248334	0.482	ppbv	96
70) n-Butylbenzene	18.54	91	228218	0.467	ppbv	98
71) 2-Chlorotoluene	15.44	91	177876	0.506	ppbv	98
72) 4-Ethyltoluene	15.82	105	206569m	0.514	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	170288	0.451	ppbv	91
74) 1,2,4-Trimethylbenzene	16.74	105	203581m	0.522	ppbv	
75) 1,3-Dichlorobenzene	16.98	146	117956	0.495	ppbv	90
76) 1,4-Dichlorobenzene	17.12	146	115686	0.480	ppbv	91
77) 1,2-Dichlorobenzene	17.80	146	113744	0.476	ppbv	90
78) Hexachloro-1,3-Butadiene	23.35	225	107427m	0.560	ppbv	
79) Naphthalene	22.18	128	88121m	0.288	ppbv	
80) Naphthalene,2-methyl-	25.10	142	12231m	0.184	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	68752m	0.368	ppbv	

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

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