

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037925.D
 Acq On : 27 Oct 2021 20:52
 Operator : SY/AP
 Sample : M4068-13 0.1 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/28/2021
 Supervised By : Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 13:43:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1288533	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3889029	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3298194	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2339924	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	24369m	0.118	ppbv	
3) Chlorodifluoromethane	3.00	51	27642m	0.112	ppbv	
4) Chloromethane	3.15	50	10815	0.119	ppbv	91
5) Vinyl Chloride	3.28	62	9593m	0.115	ppbv	
6) Bromomethane	3.48	94	5505m	0.122	ppbv	
7) Chloroethane	3.56	64	3788m	0.124	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	23893	0.117	ppbv	95
9) Propene	3.04	41	17128m	0.188	ppbv	
10) Heptane	8.14	43	13581m	0.066	ppbv	
11) Trichlorofluoromethane	3.96	101	20195m	0.110	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.50	101	17646m	0.127	ppbv	
14) Bromoethene	3.75	108	8040m	0.131	ppbv	
15) Acetone	3.89	43	13142m	0.114	ppbv	
16) 1,3-Butadiene	3.34	39	7425	0.088	ppbv #	76
17) tert-Butyl alcohol	4.36	59	12640m	0.106	ppbv	
18) 1,1-Dichloroethene	4.30	96	8536m	0.135	ppbv	
19) Isopropyl Alcohol	4.01	45	8212m	0.114	ppbv	
20) Methylene Chloride	4.36	84	16689	0.286	ppbv	85
21) Allvl Chloride	4.42	41	11384m	0.111	ppbv	
22) trans-1,2-Dichloroethene	4.90	96	8114m	0.128	ppbv	
23) Vinyl Acetate	5.10	43	17371m	0.100	ppbv	
24) 1,1-Dichloroethane	5.02	63	17509m	0.139	ppbv	
25) Ethyl Acetate	5.71	43	30857m	0.095	ppbv	
26) Hexane	5.70	57	13442m	0.084	ppbv	
27) Carbon Disulfide	4.56	76	13280m	0.094	ppbv	
28) Methyl tert-Butyl Ether	5.07	73	13804m	0.104	ppbv	
29) Chloroform	5.76	83	26060m	0.114	ppbv	
30) Cyclohexane	7.17	84	16335m	0.121	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	10781m	0.074	ppbv	
32) 1,1,1-Trichloroethane	6.53	97	23131m	0.107	ppbv	
34) 2-Butanone	5.29	43	16370m	0.104	ppbv	
35) Carbon Tetrachloride	7.02	117	20379m	0.092	ppbv	
36) Benzene	6.90	78	24734m	0.074	ppbv	
37) 1,2-Dichloroethane	6.32	62	11960	0.076	ppbv #	93
38) Trichloroethene	7.85	130	10923m	0.083	ppbv	
39) 1,2-Dichloropropane	7.63	63	12350m	0.099	ppbv	
40) 1,4-Dioxane	7.91	88	2534m	0.081	ppbv	
41) Tetrahydrofuran	6.10	42	4695m	0.061	ppbv	
42) Bromodichloromethane	7.80	83	21275m	0.093	ppbv	
43) Methyl Methacrylate	8.04	69	5578m	0.051	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	33679m	0.060	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.29	75	4277m	0.057	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	6609m	0.064	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	12069m	0.089	ppbv	
48) Dibromochloromethane	10.31	129	15194m	0.078	ppbv	
49) Bromoform	13.04	173	10704m	0.072	ppbv	
50) 4-Methyl-2-Pentanone	8.80	43	13073m	0.064	ppbv	
51) 2-Hexanone	10.18	43	4236m	0.046	ppbv	
52) Tetrachloroethene	11.23	164	10719m	0.083	ppbv	
53) Toluene	9.82	91	19622m	0.053	ppbv	
54) 1,2-Dibromoethane	10.62	107	13103m	0.071	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	16798m	0.123	ppbv	
57) Chlorobenzene	12.16	112	32529m	0.120	ppbv	
58) Ethyl Benzene	12.73	91	21766m	0.049	ppbv	
59) m/p-Xylene	12.99	91	37345m	0.098	ppbv	
60) o-Xylene	13.69	91	18690m	0.051	ppbv	
61) Styrene	13.54	104	9013m	0.051	ppbv	
62) Isopropylbenzene	14.67	105	36227m	0.071	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	27077m	0.096	ppbv	
64) n-propylbenzene	15.56	120	6824m	0.054	ppbv	
65) tert-Butylbenzene	16.75	119	25773m	0.058	ppbv	
66) Benzyl Chloride	17.00	91	2166m	0.098	ppbv	
67) sec-Butylbenzene	17.30	105	36090m	0.059	ppbv	
69) p-Isopropyltoluene	17.66	119	22303m	0.045	ppbv	
70) n-Butylbenzene	18.56	91	21208m	0.045	ppbv	
71) 2-Chlorotoluene	15.46	91	21105m	0.059	ppbv	
72) 4-Ethyltoluene	15.85	105	18401m	0.044	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	19054m	0.051	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	20030m	0.051	ppbv	
75) 1,3-Dichlorobenzene	17.01	146	28511m	0.117	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	18325m	0.079	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	17659m	0.075	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	21005m	0.110	ppbv	
79) Naphthalene	22.22	128	7361m	0.030	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	7544m	0.049	ppbv	

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

