

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037440.D
 Acq On : 13 Aug 2021 8:48
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 8/13/2021 11:06:24 AM

Quant Time: Aug 13 09:22:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 13 09:22:48 2021
 QLast Update : Thu Aug 12 15:26:13 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1259289	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3841776	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3537555m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2510867	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1987523	10.330	ppbv	99
3) Chlorodifluoromethane	2.98	51	2339641	9.461	ppbv	100
4) Chloromethane	3.14	50	839020	9.439	ppbv	99
5) Vinyl Chloride	3.26	62	896175	9.869	ppbv	96
6) Bromomethane	3.47	94	434121	8.547	ppbv	95
7) Chloroethane	3.56	64	309888	9.583	ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	2099146	9.776	ppbv	99
9) Propene	3.01	41	802721	9.667	ppbv	99
10) Heptane	8.12	43	2030616	10.056	ppbv	100
11) Trichlorofluoromethane	3.95	101	1992846	9.573	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1465607	10.049	ppbv	97
13) Ethanol	3.62	45	91451m	10.319	ppbv	
14) Bromoethene	3.74	108	656909	10.127	ppbv	99
15) Acetone	3.85	43	1151919	8.625	ppbv	97
16) 1,3-Butadiene	3.32	39	853745	9.525	ppbv	99
17) tert-Butyl alcohol	4.29	59	1182374	9.275	ppbv	97
18) 1,1-Dichloroethene	4.29	96	644143	9.513	ppbv	97
19) Isopropyl Alcohol	3.97	45	678273	8.727	ppbv	98
20) Methylene Chloride	4.34	84	616960	8.737	ppbv	97
21) Allyl Chloride	4.41	41	970936	9.278	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	643685	10.135	ppbv	96
23) Vinyl Acetate	5.07	43	2093485	10.216	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1666287	10.469	ppbv	100
25) Ethyl Acetate	5.67	43	3228995	10.145	ppbv	99
26) Hexane	5.68	57	1532461	9.330	ppbv	99
27) Carbon Disulfide	4.55	76	1583713	11.436	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1805703	10.273	ppbv	100
29) Chloroform	5.75	83	2253287	9.744	ppbv	100
30) Cyclohexane	7.12	84	1306726	9.660	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1465595	10.323	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2197650	9.416	ppbv	99
34) 2-Butanone	5.24	43	1370688	8.642	ppbv	96
35) Carbon Tetrachloride	7.01	117	2277638	9.614	ppbv	97
36) Benzene	6.89	78	3170045	9.786	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1604589	9.706	ppbv	99
38) Trichloroethene	7.83	130	1242564	8.690	ppbv	96
39) 1,2-Dichloropropane	7.61	63	1198779	9.714	ppbv	98
40) 1,4-Dioxane	7.83	88	263038m	8.759	ppbv	
41) Tetrahydrofuran	6.05	42	733644	10.072	ppbv	98
42) Bromodichloromethane	7.79	83	2354446	10.171	ppbv	97
43) Methyl Methacrylate	8.01	69	1144592	10.425	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5254112	9.701	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	757263m	9.282	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	978620	8.592	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1250149	9.371	ppbv	95
48) Dibromochloromethane	10.30	129	2019994	10.495	ppbv	98
49) Bromoform	13.03	173	1566450	10.741	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2059160	10.320	ppbv	99
51) 2-Hexanone	10.13	43	973724	10.372	ppbv #	98
52) Tetrachloroethene	11.22	164	1144934	8.390	ppbv	97
53) Toluene	9.80	91	3668647	9.920	ppbv	98
54) 1,2-Dibromoethane	10.61	107	1776509	9.785	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	1388590	9.860	ppbv	97
57) Chlorobenzene	12.14	112	2589467	9.032	ppbv	99
58) Ethyl Benzene	12.70	91	4577729	9.539	ppbv	99
59) m/p-Xylene	12.99	91	7845364m	18.611	ppbv	
60) o-Xylene	13.68	91	3532712	9.021	ppbv	98
61) Styrene	13.52	104	2038171	10.302	ppbv	99
62) Isopropylbenzene	14.66	105	5108865	9.122	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2600605	8.806	ppbv	99
64) n-propylbenzene	15.55	120	1340805	9.514	ppbv	99
65) tert-Butylbenzene	16.74	119	4589997	9.088	ppbv	99
66) Benzyl Chloride	16.98	91	193161	8.359	ppbv #	97
67) sec-Butylbenzene	17.28	105	6359902	9.254	ppbv	100
69) p-Isopropyltoluene	17.64	119	5332070	9.453	ppbv	100
70) n-Butylbenzene	18.54	91	5184549	9.890	ppbv	99
71) 2-Chlorotoluene	15.44	91	3733099	9.424	ppbv	100
72) 4-Ethyltoluene	15.83	105	4368193	9.609	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4098626	9.537	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	4153113	9.439	ppbv	95
75) 1,3-Dichlorobenzene	16.99	146	2492535	9.257	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	2457386	9.205	ppbv	97
77) 1,2-Dichlorobenzene	17.81	146	2375715	9.170	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	1811073	8.630	ppbv	99
79) Naphthalene	22.18	128	2966035	12.403	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	709367	14.045	ppbv	95
81) 1,2,4-Trichlorobenzene	21.91	180	1833339	11.284	ppbv	99

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

