

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037636.D
 Acq On : 17 Sep 2021 4:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:27:45 PM

Quant Time: Sep 17 10:16:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 17 10:16:58 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1528880	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4498512	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4157368m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2878018	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2008212	7.259	ppbv	99
3) Chlorodifluoromethane	2.98	51	2746470	9.524	ppbv	100
4) Chloromethane	3.13	50	1032159	9.687	ppbv	98
5) Vinyl Chloride	3.25	62	1039243	10.384	ppbv	98
6) Bromomethane	3.46	94	564050	9.697	ppbv	93
7) Chloroethane	3.55	64	366043	9.787	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	2308746	9.674	ppbv	100
9) Propene	3.00	41	989717	9.729	ppbv	99
10) Heptane	8.10	43	2482442	10.458	ppbv	99
11) Trichlorofluoromethane	3.94	101	2185239	9.838	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1592602	9.714	ppbv	99
13) Ethanol	3.59	45	98873	9.937	ppbv	97
14) Bromoethene	3.73	108	695722	9.322	ppbv	96
15) Acetone	3.84	43	1184719	7.458	ppbv	98
16) 1,3-Butadiene	3.32	39	988996	9.964	ppbv	98
17) tert-Butyl alcohol	4.27	59	1463859	10.868	ppbv	99
18) 1,1-Dichloroethene	4.28	96	722489	9.460	ppbv	97
19) Isopropyl Alcohol	3.95	45	880972	10.193	ppbv	100
20) Methylene Chloride	4.33	84	582630	7.683	ppbv	97
21) Allyl Chloride	4.40	41	1211966	10.213	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	736293	9.582	ppbv	94
23) Vinyl Acetate	5.06	43	2482468	11.294	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1582521	10.050	ppbv	100
25) Ethyl Acetate	5.66	43	3816098	9.919	ppbv	99
26) Hexane	5.67	57	1806869	9.887	ppbv	98
27) Carbon Disulfide	4.54	76	1745279	10.439	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	1901369	11.812	ppbv	98
29) Chloroform	5.74	83	2523864	9.458	ppbv	100
30) Cyclohexane	7.11	84	1525870	9.762	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1738577	10.479	ppbv	96
32) 1,1,1-Trichloroethane	6.49	97	2459301	9.899	ppbv	99
34) 2-Butanone	5.23	43	1692949	9.261	ppbv	99
35) Carbon Tetrachloride	7.01	117	2551271	10.026	ppbv	98
36) Benzene	6.88	78	3789346	10.102	ppbv	98
37) 1,2-Dichloroethane	6.29	62	1817941	9.854	ppbv	100
38) Trichloroethene	7.82	130	1466556	9.359	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1448002	10.078	ppbv	98
40) 1,4-Dioxane	7.82	88	343428	9.827	ppbv	# 1
41) Tetrahydrofuran	6.03	42	918046	10.683	ppbv	99
42) Bromodichloromethane	7.77	83	2720932	10.290	ppbv	99
43) Methyl Methacrylate	8.00	69	1355043	10.858	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6300812	9.991	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	1159819	11.832	ppbv	95
46) cis-1,3-Dichloropropene	8.68	75	1534647	11.590	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1509968	9.501	ppbv	99
48) Dibromochloromethane	10.28	129	2315861	10.445	ppbv	99
49) Bromoform	13.02	173	1758009	9.907	ppbv	95
50) 4-Methyl-2-Pentanone	8.72	43	2396575	10.329	ppbv	99
51) 2-Hexanone	10.12	43	1107619	10.819	ppbv	96
52) Tetrachloroethene	11.20	164	1380647	9.587	ppbv	98
53) Toluene	9.79	91	4295471	10.302	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2137249	9.821	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	1582114	9.175	ppbv #	50
57) Chlorobenzene	12.13	112	3053541	8.835	ppbv	96
58) Ethyl Benzene	12.69	91	5403427	9.791	ppbv	100
59) m/p-Xylene	12.98	91	9045204m	18.808	ppbv	
60) o-Xylene	13.67	91	4176861	9.125	ppbv	98
61) Styrene	13.51	104	2361702	10.463	ppbv	99
62) Isopropylbenzene	14.64	105	5820273	9.102	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	2921776	8.156	ppbv	99
64) n-propylbenzene	15.55	120	1518479	9.202	ppbv	82
65) tert-Butylbenzene	16.72	119	5100399	8.846	ppbv	100
66) Benzyl Chloride	16.97	91	309420	9.821	ppbv	98
67) sec-Butylbenzene	17.27	105	7132879	9.119	ppbv	99
69) p-Isopropyltoluene	17.63	119	5970045	9.342	ppbv	99
70) n-Butylbenzene	18.53	91	5859506	9.691	ppbv	99
71) 2-Chlorotoluene	15.43	91	4218950	9.206	ppbv	99
72) 4-Ethyltoluene	15.82	105	5001451	9.518	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	4448514	9.083	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	4607489	8.931	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	2826462	8.819	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	2780889	8.797	ppbv	100
77) 1,2-Dichlorobenzene	17.80	146	2724011	8.961	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2226547	8.702	ppbv	99
79) Naphthalene	22.17	128	3978550	12.560	ppbv	98
80) Naphthalene, 2-methyl-	24.95	142	1088902	15.040	ppbv	99
81) 1,2,4-Trichlorobenzene	21.90	180	2248502	11.056	ppbv	99

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

