

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061521\
 Data File : VL037162.D
 Acq On : 15 Jun 2021 20:28
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/16/2021 5:01:42 PM

Quant Time: Jun 16 02:26:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jun 14 2021
 QLast Update : Mon Jun 14 16:49:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1598776	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4718208	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4148327m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3424033	11.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	2196715	8.627	ppbv	100
3) Chlorodifluoromethane	3.00	51	2622663	8.745	ppbv	99
4) Chloromethane	3.15	50	836780	8.188	ppbv	97
5) Vinyl Chloride	3.27	62	879201	8.893	ppbv	99
6) Bromomethane	3.48	94	416619	6.625	ppbv	98
7) Chloroethane	3.57	64	339785	8.808	ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	2305695	8.475	ppbv	100
9) Propene	3.02	41	803474	8.122	ppbv	99
10) Heptane	8.14	43	2044251	8.668	ppbv	100
11) Trichlorofluoromethane	3.96	101	2400039	8.308	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1690905	8.532	ppbv	99
13) Ethanol	3.62	45	118003m	8.633	ppbv	
14) Bromoethene	3.75	108	716698	8.357	ppbv	99
15) Acetone	3.86	43	1186368	6.201	ppbv	100
16) 1,3-Butadiene	3.33	39	984452	9.531	ppbv	90
17) tert-Butyl alcohol	4.30	59	1381214	8.342	ppbv	100
18) 1,1-Dichloroethene	4.30	96	768900	8.600	ppbv	96
19) Isopropyl Alcohol	3.98	45	884135	8.422	ppbv #	98
20) Methylene Chloride	4.36	84	591190	7.091	ppbv	96
21) Allyl Chloride	4.42	41	946214	7.403	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	741728	8.515	ppbv	93
23) Vinyl Acetate	5.09	43	2212773	8.808	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1774951	8.803	ppbv	99
25) Ethyl Acetate	5.69	43	3085932	8.232	ppbv	99
26) Hexane	5.70	57	1526751	8.189	ppbv	98
27) Carbon Disulfide	4.56	76	1723695	9.119	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1896846	8.124	ppbv	100
29) Chloroform	5.77	83	2477137	8.231	ppbv	99
30) Cyclohexane	7.14	84	1395697	8.587	ppbv	100
31) cis-1,2-Dichloroethene	5.56	61	1554665	8.653	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2618954	9.477	ppbv	100
34) 2-Butanone	5.26	43	1450977	8.188	ppbv	99
35) Carbon Tetrachloride	7.03	117	2767338	9.541	ppbv	98
36) Benzene	6.91	78	3220823	8.603	ppbv	99
37) 1,2-Dichloroethane	6.32	62	1871111	8.607	ppbv	99
38) Trichloroethene	7.85	130	1374747	8.497	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1240979	8.682	ppbv	99
40) 1,4-Dioxane	7.86	88	337266m	8.426	ppbv	
41) Tetrahydrofuran	6.07	42	699838	8.115	ppbv	98
42) Bromodichloromethane	7.81	83	2699433	9.012	ppbv	99
43) Methyl Methacrylate	8.03	69	1230736	9.582	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5343280	8.527	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	609017	5.262	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	879616	5.696	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1386062	8.549	ppbv	100
48) Dibromochloromethane	10.32	129	2507263	9.586	ppbv	100
49) Bromoform	13.06	173	2119608	10.374	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2244047	8.609	ppbv	100
51) 2-Hexanone	10.15	43	1253407	9.633	ppbv #	98
52) Tetrachloroethene	11.24	164	1368655	8.839	ppbv	95
53) Toluene	9.82	91	3928030	8.827	ppbv	99
54) 1,2-Dibromoethane	10.63	107	2022131	8.518	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	1753485	9.692	ppbv	98
57) Chlorobenzene	12.16	112	3037079	9.136	ppbv	99
58) Ethyl Benzene	12.73	91	5264098	9.368	ppbv	99
59) m/p-Xylene	13.01	91	8903928m	18.646	ppbv	
60) o-Xylene	13.71	91	4255897	9.283	ppbv	100
61) Styrene	13.55	104	2296925	9.503	ppbv	100
62) Isopropylbenzene	14.69	105	6147582	9.407	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	2944206	9.876	ppbv	100
64) n-propylbenzene	15.58	120	1656251	9.937	ppbv	98
65) tert-Butylbenzene	16.76	119	5603328	9.461	ppbv	99
66) Benzyl Chloride	17.01	91	113588m	4.394	ppbv	
67) sec-Butylbenzene	17.31	105	7471907	9.495	ppbv	99
69) p-Isopropyltoluene	17.67	119	6468745	9.834	ppbv	99
70) n-Butylbenzene	18.57	91	6107491	10.147	ppbv	100
71) 2-Chlorotoluene	15.47	91	4523707	9.704	ppbv	100
72) 4-Ethyltoluene	15.86	105	5121158	9.615	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	4673945	9.253	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	4934938	9.601	ppbv	96
75) 1,3-Dichlorobenzene	17.01	146	3108329	9.821	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	2974257	9.462	ppbv	97
77) 1,2-Dichlorobenzene	17.83	146	3037084	9.732	ppbv	100
78) Hexachloro-1,3-Butadiene	23.39	225	2104440	9.513	ppbv	99
79) Naphthalene	22.22	128	3893882	12.586	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	1168555	15.612	ppbv	95
81) 1,2,4-Trichlorobenzene	21.95	180	2254530	11.456	ppbv	100

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

