

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032346.D
 Acq On : 2 Aug 2018 11:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 2:05:12 PM

Quant Time: Aug 02 12:46:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1765403	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3820722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4514479m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3598996	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.12	85	1251901	5.88	ppbv	99
3) Chlorodifluoromethane	3.05	51	1724621	9.77	ppbv	99
4) Chloromethane	3.21	50	1053526	9.86	ppbv	98
5) Vinyl Chloride	3.33	62	994768	10.24	ppbv	96
6) Bromomethane	3.56	94	551526	10.34	ppbv	95
7) Chloroethane	3.65	64	359545	10.41	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	1968527	9.15	ppbv	99
9) Propene	3.08	41	812581	10.24	ppbv	99
10) Heptane	8.32	43	2965972	10.65	ppbv	99
11) Trichlorofluoromethane	4.05	101	1992127	9.79	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.61	101	1393647	10.04	ppbv	100
13) Ethanol	3.69	45	215309	9.44	ppbv	96
14) Bromoethene	3.84	108	623137	10.22	ppbv	99
15) Acetone	3.95	43	1594166	9.58	ppbv	100
16) 1,3-Butadiene	3.41	39	865725	10.04	ppbv	98
17) tert-Butyl alcohol	4.41	59	573660	10.85	ppbv	99
18) 1,1-Dichloroethene	4.41	96	647604	10.05	ppbv	98
19) Isopropyl Alcohol	4.07	45	1218839	10.98	ppbv	99
20) Methylene Chloride	4.46	84	592359	8.86	ppbv	95
21) Allyl Chloride	4.53	41	1206058	10.63	ppbv	100
22) trans-1,2-Dichloroethene	5.02	96	677586	10.91	ppbv	97
23) Vinyl Acetate	5.21	43	3229046	10.82	ppbv	99
24) 1,1-Dichloroethane	5.15	63	2106263	9.84	ppbv	99
25) Ethyl Acetate	5.83	43	3668897	9.83	ppbv	100
26) Hexane	5.84	57	1671996	9.90	ppbv	99
27) Carbon Disulfide	4.68	76	1768659	11.51	ppbv	100
28) Methyl tert-Butyl Ether	5.17	73	2553905	11.18	ppbv	99
29) Chloroform	5.91	83	2422679	9.86	ppbv	99
30) Cyclohexane	7.32	84	1426369	10.82	ppbv	100
31) cis-1,2-Dichloroethene	5.70	61	1663250	10.62	ppbv	99
32) 1,1,1-Trichloroethane	6.69	97	2382014	10.95	ppbv	99
34) 2-Butanone	5.39	43	2557122	10.34	ppbv	100
35) Carbon Tetrachloride	7.20	117	2395353	11.04	ppbv	99
36) Benzene	7.07	78	3519653	10.45	ppbv	99
37) 1,2-Dichloroethane	6.48	62	1854514	9.53	ppbv	99
38) Trichloroethene	8.03	130	1400382	10.76	ppbv	95
39) 1,2-Dichloropropane	7.81	63	1716742	10.13	ppbv	97
40) 1,4-Dioxane	8.03	88	531236	10.68	ppbv	98
41) Tetrahydrofuran	6.21	42	1519914	10.87	ppbv	99
42) Bromodichloromethane	7.99	83	3226213	10.24	ppbv	98
43) Methyl Methacrylate	8.21	69	1794656	11.10	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	7367835	10.09	ppbv	100
45) t-1,3-Dichloropropene	9.49	75	2215070	11.82	ppbv	99
46) cis-1,3-Dichloropropene	8.91	75	2608721	11.37	ppbv	97
47) 1,1,2-Trichloroethane	9.69	97	1626249	9.87	ppbv	98
48) Dibromochloromethane	10.53	129	2542540	10.47	ppbv	99
49) Bromoform	13.28	173	2059505	10.30	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	4557290	10.44	ppbv	100
51) 2-Hexanone	10.35	43	3726158	11.21	ppbv	99
52) Tetrachloroethene	11.45	164	1213674	10.69	ppbv	97
53) Toluene	10.02	91	4582883	11.38	ppbv	100
54) 1,2-Dibromoethane	10.84	107	2435931	10.41	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.36	131	1805084	9.70	ppbv #	55
57) Chlorobenzene	12.38	112	3305655	9.42	ppbv	98
58) Ethyl Benzene	12.94	91	6116893	10.81	ppbv	99
59) m/p-Xylene	13.23	91	9721310m	20.17	ppbv	
60) o-Xylene	13.93	91	4819250	10.20	ppbv	98
61) Styrene	13.76	104	3877773	11.15	ppbv	99
62) Isopropylbenzene	14.91	105	6740538	10.04	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.92	83	3557115	9.25	ppbv	100
64) n-propylbenzene	15.80	120	1750327	10.02	ppbv	95
65) tert-Butylbenzene	16.99	119	5597410	9.87	ppbv	100
66) Benzyl Chloride	17.24	91	3805691	11.26	ppbv	100
67) sec-Butylbenzene	17.54	105	8337861	9.82	ppbv	100
69) p-Isopropyltoluene	17.89	119	6659110	10.12	ppbv	100
70) n-Butylbenzene	18.79	91	7388945	9.73	ppbv	99
71) 2-Chlorotoluene	15.70	91	5428506	10.31	ppbv	100
72) 4-Ethyltoluene	16.08	105	5645802	10.66	ppbv	100
73) 1,3,5-Trimethylbenzene	16.24	105	5370386	10.30	ppbv	100
74) 1,2,4-Trimethylbenzene	17.01	105	5324939	9.69	ppbv	98
75) 1,3-Dichlorobenzene	17.25	146	2948452	9.27	ppbv	99
76) 1,4-Dichlorobenzene	17.39	146	2998688	9.82	ppbv	100
77) 1,2-Dichlorobenzene	18.07	146	2890643	9.25	ppbv	100
78) Hexachloro-1,3-Butadiene	23.62	225	1744082	15.86	ppbv	99
79) Naphthalene	22.51	128	5036852	10.56	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	2384455	12.64	ppbv	99
81) 1,2,4-Trichlorobenzene	22.23	180	2435259	10.22	ppbv	99

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

