

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034098.D
 Acq On : 6 Aug 2019 10:43
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:43 PM

Quant Time: Aug 06 15:09:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 06 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1120686	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2270487	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	2338843m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1977263	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1263439	9.160	ppbv	99
3) Chlorodifluoromethane	2.99	51	1088318	8.398	ppbv	99
4) Chloromethane	3.14	50	703140	8.416	ppbv	99
5) Vinyl Chloride	3.26	62	628878	8.543	ppbv	100
6) Bromomethane	3.48	94	326718	8.589	ppbv	99
7) Chloroethane	3.57	64	224816	8.152	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	1302985	8.190	ppbv	94
9) Propene	3.01	41	629273	8.237	ppbv	99
10) Heptane	8.20	43	1657110	8.385	ppbv	99
11) Trichlorofluoromethane	3.97	101	1352513	8.271	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.51	101	931946	8.077	ppbv	95
13) Ethanol	3.62	45	112772	5.238	ppbv	99
14) Bromoethene	3.75	108	425893	8.265	ppbv	99
15) Acetone	3.87	43	1154213	7.207	ppbv	100
16) 1,3-Butadiene	3.33	39	642777	8.254	ppbv	100
17) tert-Butyl alcohol	4.32	59	1148887	7.688	ppbv	99
18) 1,1-Dichloroethene	4.31	96	432962	7.934	ppbv	97
19) Isopropyl Alcohol	3.99	45	914245	7.332	ppbv #	46
20) Methylene Chloride	4.37	84	383469	7.985	ppbv #	91
21) Allyl Chloride	4.44	41	873172	7.877	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	434139	8.187	ppbv	96
23) Vinyl Acetate	5.11	43	2090232	7.872	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1321234	8.363	ppbv	99
25) Ethyl Acetate	5.72	43	2491504	7.910	ppbv	100
26) Hexane	5.73	57	1077510	8.070	ppbv	98
27) Carbon Disulfide	4.58	76	1161993	8.255	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1810920	8.110	ppbv	100
29) Chloroform	5.80	83	1547708	8.527	ppbv	98
30) Cyclohexane	7.20	84	894284	8.479	ppbv	99
31) cis-1,2-Dichloroethene	5.60	61	1107135	8.395	ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	1475718	8.216	ppbv	99
34) 2-Butanone	5.28	43	1749847	8.290	ppbv	99
35) Carbon Tetrachloride	7.08	117	1421122	8.155	ppbv	98
36) Benzene	6.96	78	2196083	8.510	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1228427	8.848	ppbv	100
38) Trichloroethene	7.91	130	709748	7.101	ppbv	95
39) 1,2-Dichloropropane	7.69	63	913426	8.772	ppbv	98
40) 1,4-Dioxane	7.90	88	319707	8.137	ppbv #	99
41) Tetrahydrofuran	6.10	42	1106615	8.522	ppbv	99
42) Bromodichloromethane	7.87	83	1713009	8.800	ppbv	97
43) Methyl Methacrylate	8.09	69	933440	8.818	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3706641	8.022	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1193715	8.896	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	1355533	8.753	ppbv	97
47) 1,1,2-Trichloroethane	9.57	97	854070	8.580	ppbv	97
48) Dibromochloromethane	10.40	129	1335326	8.366	ppbv	99
49) Bromoform	13.15	173	1176414	8.243	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2619303	8.153	ppbv	100
51) 2-Hexanone	10.22	43	2264667	8.388	ppbv #	100
52) Tetrachloroethene	11.32	164	722050	7.245	ppbv	97
53) Toluene	9.89	91	2445153	8.211	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1256136	8.329	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.23	131	877807	8.209	ppbv #	58
57) Chlorobenzene	12.25	112	1686564	8.008	ppbv	97
58) Ethyl Benzene	12.81	91	3275720	8.329	ppbv	99
59) m/p-Xylene	13.10	91	5202818m	16.481	ppbv	
60) o-Xylene	13.80	91	2553231	8.093	ppbv	99
61) Styrene	13.63	104	2068715	8.262	ppbv	98
62) Isopropylbenzene	14.77	105	3390808	8.007	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.78	83	1802118	7.908	ppbv	100
64) n-propylbenzene	15.67	120	919339	8.214	ppbv	93
65) tert-Butylbenzene	16.86	119	2883216	7.644	ppbv	97
66) Benzyl Chloride	17.10	91	1691362	8.100	ppbv	97
67) sec-Butylbenzene	17.41	105	4121279	7.742	ppbv	99
69) p-Isopropyltoluene	17.77	119	3400053	7.743	ppbv	98
70) n-Butylbenzene	18.66	91	3848189	8.124	ppbv	98
71) 2-Chlorotoluene	15.56	91	2745788	8.064	ppbv	99
72) 4-Ethyltoluene	15.95	105	3004403	8.092	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	2888155	8.086	ppbv	97
74) 1,2,4-Trimethylbenzene	16.87	105	2884565	7.763	ppbv	98
75) 1,3-Dichlorobenzene	17.11	146	1635505	7.858	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1682390	7.911	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	1643474	8.010	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1351356	8.308	ppbv	99
79) Naphthalene	22.34	128	2918676	7.563	ppbv	96
80) Naphthalene, 2-methyl-	25.07	142	1327140	10.966	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	1618221	7.554	ppbv	99

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

