

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033930.D
 Acq On : 24 Jun 2019 9:18
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:15:29 AM

Quant Time: Jun 25 03:44:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1183394	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2592258	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2589727m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	2158015	10.15	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1465153	7.630	ppbv	97
3) Chlorodifluoromethane	3.00	51	1104536	7.928	ppbv	99
4) Chloromethane	3.16	50	631657	7.949	ppbv	99
5) Vinyl Chloride	3.28	62	627912	8.516	ppbv	97
6) Bromomethane	3.50	94	403044	8.228	ppbv	96
7) Chloroethane	3.59	64	241785	8.292	ppbv	98
8) Dichlorotetrafluoroethane	3.21	85	1646495	8.023	ppbv	100
9) Propene	3.03	41	466364	8.946	ppbv	99
10) Heptane	8.22	43	1444954	10.967	ppbv	99
11) Trichlorofluoromethane	3.99	101	2019448	8.150	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1344556	8.029	ppbv	99
13) Ethanol	3.64	45	86282	5.087	ppbv	97
14) Bromoethene	3.78	108	537646	8.616	ppbv	100
15) Acetone	3.89	43	1260355	7.302	ppbv	99
16) 1,3-Butadiene	3.35	39	565466	8.608	ppbv	99
17) tert-Butyl alcohol	4.34	59	1055595	7.824	ppbv	100
18) 1,1-Dichloroethene	4.34	96	591950	8.369	ppbv	98
19) Isopropyl Alcohol	4.01	45	753107	7.638	ppbv	99
20) Methylene Chloride	4.39	84	497977	7.399	ppbv	97
21) Allyl Chloride	4.46	41	865727	8.830	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	625990	8.396	ppbv	96
23) Vinyl Acetate	5.14	43	1891840	9.430	ppbv	99
24) 1,1-Dichloroethane	5.07	63	1303469	8.354	ppbv	99
25) Ethyl Acetate	5.75	43	2658600	10.115	ppbv	100
26) Hexane	5.76	57	1153188	9.636	ppbv	99
27) Carbon Disulfide	4.60	76	1534974	9.232	ppbv	100
28) Methyl tert-Butyl Ether	5.09	73	1720559	9.508	ppbv	99
29) Chloroform	5.83	83	1976378	9.642	ppbv	98
30) Cyclohexane	7.22	84	938249	11.096	ppbv	97
31) cis-1,2-Dichloroethene	5.62	61	1188736	11.327	ppbv	98
32) 1,1,1-Trichloroethane	6.60	97	1956089	9.893	ppbv	99
34) 2-Butanone	5.31	43	1462056	9.998	ppbv	99
35) Carbon Tetrachloride	7.11	117	2144241	10.706	ppbv	100
36) Benzene	6.98	78	2254441	11.385	ppbv	99
37) 1,2-Dichloroethane	6.39	62	1523336	10.402	ppbv	99
38) Trichloroethene	7.94	130	927360	12.028	ppbv	97
39) 1,2-Dichloropropane	7.71	63	844841	11.054	ppbv	93
40) 1,4-Dioxane	7.93	88	322752	10.354	ppbv	# 1
41) Tetrahydrofuran	6.13	42	880112	11.857	ppbv	98
42) Bromodichloromethane	7.89	83	2110011	10.782	ppbv	99
43) Methyl Methacrylate	8.11	69	910687	12.297	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3843824	10.916	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	1109136	11.414	ppbv	98
46) cis-1,3-Dichloropropene	8.81	75	1400923	12.583	ppbv	97
47) 1,1,2-Trichloroethane	9.59	97	827829	9.086	ppbv	97
48) Dibromochloromethane	10.43	129	1604287	9.798	ppbv	100
49) Bromoform	13.18	173	1640793	11.352	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2520525	11.558	ppbv	100
51) 2-Hexanone	10.25	43	1850251	10.865	ppbv #	99
52) Tetrachloroethene	11.34	164	828200	11.886	ppbv	96
53) Toluene	9.92	91	2336878	10.664	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1338705	9.747	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.25	131	1139191	10.070	ppbv	99
57) Chlorobenzene	12.27	112	1965844	10.135	ppbv	98
58) Ethyl Benzene	12.84	91	3253977	11.145	ppbv	98
59) m/p-Xylene	13.12	91	6119072m	23.046	ppbv	
60) o-Xylene	13.82	91	3109300	11.342	ppbv	100
61) Styrene	13.66	104	2277332	12.837	ppbv	99
62) Isopropylbenzene	14.80	105	4063959	10.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	2227472	10.794	ppbv	100
64) n-propylbenzene	15.70	120	1071773	11.327	ppbv	99
65) tert-Butylbenzene	16.88	119	3832281	11.210	ppbv	99
66) Benzyl Chloride	17.13	91	2165149	12.497	ppbv	100
67) sec-Butylbenzene	17.43	105	5276684	11.002	ppbv	99
69) p-Isopropyltoluene	17.79	119	4445621	11.140	ppbv	100
70) n-Butylbenzene	18.69	91	5126758	11.729	ppbv	100
71) 2-Chlorotoluene	15.59	91	3177290	11.673	ppbv	100
72) 4-Ethyltoluene	15.97	105	3651165	11.704	ppbv	100
73) 1,3,5-Trimethylbenzene	16.13	105	3506161	11.410	ppbv	100
74) 1,2,4-Trimethylbenzene	16.90	105	3766862	10.636	ppbv	98
75) 1,3-Dichlorobenzene	17.14	146	2169029	9.779	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	2118635	10.403	ppbv	99
77) 1,2-Dichlorobenzene	17.96	146	2078457	10.155	ppbv	100
78) Hexachloro-1,3-Butadiene	23.52	225	1748554	10.937	ppbv	99
79) Naphthalene	22.38	128	3432990	12.127	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	1491682	13.206	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.10	180	2014412	11.271	ppbv	100

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

