

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033529.D
 Acq On : 30 Mar 2019 8:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:36 AM

Quant Time: Mar 31 01:08:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	769424	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1763144	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1786011m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1416679	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1666578	14.851	ppbv	100
3) Chlorodifluoromethane	3.01	51	1015332	11.462	ppbv	100
4) Chloromethane	3.17	50	546161	11.651	ppbv	99
5) Vinyl Chloride	3.29	62	558269	12.122	ppbv	100
6) Bromomethane	3.52	94	351176	11.865	ppbv	97
7) Chloroethane	3.60	64	200226	11.681	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1433199	11.986	ppbv	100
9) Propene	3.04	41	414871	11.152	ppbv	98
10) Heptane	8.25	43	1103678	11.099	ppbv	100
11) Trichlorofluoromethane	4.00	101	1599985	11.569	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1067452	11.491	ppbv	100
13) Ethanol	3.65	45	107109	11.127	ppbv	63
14) Bromoethene	3.79	108	428161	11.557	ppbv	99
15) Acetone	3.90	43	999683	10.806	ppbv	100
16) 1,3-Butadiene	3.36	39	471876	12.859	ppbv	92
17) tert-Butyl alcohol	4.36	59	173048	10.173	ppbv	98
18) 1,1-Dichloroethene	4.35	96	468009	11.729	ppbv	97
19) Isopropyl Alcohol	4.02	45	608554	10.400	ppbv #	98
20) Methylene Chloride	4.41	84	411601	10.481	ppbv	100
21) Allyl Chloride	4.48	41	710652	12.151	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	501575	12.049	ppbv	96
23) Vinyl Acetate	5.16	43	1576119	11.969	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1124329	11.240	ppbv	99
25) Ethyl Acetate	5.77	43	1954630	11.387	ppbv	100
26) Hexane	5.78	57	866510	11.354	ppbv	99
27) Carbon Disulfide	4.62	76	1158396	12.764	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1311395	11.930	ppbv	100
29) Chloroform	5.85	83	1482842	11.334	ppbv	98
30) Cyclohexane	7.25	84	709739	11.755	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	905841	11.938	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1490799	11.966	ppbv	99
34) 2-Butanone	5.33	43	1235483	11.663	ppbv	99
35) Carbon Tetrachloride	7.14	117	1588108	12.717	ppbv	97
36) Benzene	7.01	78	1727521	11.677	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1147371	11.571	ppbv	99
38) Trichloroethene	7.96	130	707520	12.708	ppbv	99
39) 1,2-Dichloropropane	7.74	63	659614	11.382	ppbv	98
40) 1,4-Dioxane	7.96	88	229400	11.098	ppbv	86
41) Tetrahydrofuran	6.15	42	683791	11.736	ppbv	97
42) Bromodichloromethane	7.92	83	1611116	11.929	ppbv	99
43) Methyl Methacrylate	8.14	69	724147	12.055	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2975653	11.510	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	985742	13.365	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1103107	12.808	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	741983	11.275	ppbv	97
48) Dibromochloromethane	10.46	129	1395390	12.571	ppbv	99
49) Bromoform	13.21	173	1292643	12.190	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1823367	11.755	ppbv	99
51) 2-Hexanone	10.27	43	1454472	12.570	ppbv #	99
52) Tetrachloroethene	11.37	164	701246	12.563	ppbv	98
53) Toluene	9.95	91	2113430	12.294	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1215376	11.808	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	994110	12.145	ppbv	98
57) Chlorobenzene	12.30	112	1641974	11.840	ppbv	97
58) Ethyl Benzene	12.87	91	3025629	12.686	ppbv	98
59) m/p-Xylene	13.16	91	5197347m	24.397	ppbv	
60) o-Xylene	13.85	91	2575222	12.501	ppbv	100
61) Styrene	13.69	104	1863078	13.177	ppbv	99
62) Isopropylbenzene	14.83	105	3562797	12.213	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1794873	11.833	ppbv	100
64) n-propylbenzene	15.73	120	913873	12.346	ppbv	99
65) tert-Butylbenzene	16.91	119	3275437	12.742	ppbv	99
66) Benzyl Chloride	17.16	91	1864420	15.597	ppbv	100
67) sec-Butylbenzene	17.46	105	4649798	12.719	ppbv	100
69) p-Isopropyltoluene	17.82	119	3878483	13.030	ppbv	99
70) n-Butylbenzene	18.72	91	4099709	12.999	ppbv	100
71) 2-Chlorotoluene	15.62	91	2744381	12.372	ppbv	99
72) 4-Ethyltoluene	16.00	105	2978269	12.862	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2883165	13.011	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3028152	12.749	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1781468	12.135	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1769139	12.369	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1750306	12.566	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1316080	14.274	ppbv	99
79) Naphthalene	22.42	128	2901951	14.273	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1220736	17.890	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1496453	13.269	ppbv	99

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

