

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033087.D
 Acq On : 16 Jan 2019 9:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:15:44 PM

Quant Time: Jan 17 02:01:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1130267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2794440	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2835503m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2081340	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2258303	10.736	ppbv 100
3) Chlorodifluoromethane	3.01	51	1231667	9.627	ppbv 100
4) Chloromethane	3.17	50	671479	9.163	ppbv 100
5) Vinyl Chloride	3.29	62	707906	9.565	ppbv 98
6) Bromomethane	3.52	94	464982	9.248	ppbv 100
7) Chloroethane	3.60	64	269535	9.313	ppbv 92
8) Dichlorotetrafluoroethane	3.22	85	1793049	9.896	ppbv 99
9) Propene	3.04	41	495077	10.358	ppbv 99
10) Heptane	8.25	43	1351603	9.932	ppbv 99
11) Trichlorofluoromethane	4.00	101	1921981	8.269	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1314735	8.946	ppbv 99
13) Ethanol	3.64	45	147723	7.750	ppbv 96
14) Bromoethene	3.79	108	586728	9.039	ppbv 100
15) Acetone	3.90	43	1249166	7.985	ppbv 100
16) 1,3-Butadiene	3.36	39	634773	10.760	ppbv 94
17) tert-Butyl alcohol	4.35	59	294898	8.899	ppbv 99
18) 1,1-Dichloroethene	4.35	96	602610	8.901	ppbv 95
19) Isopropyl Alcohol	4.02	45	883303	8.202	ppbv 100
20) Methylene Chloride	4.41	84	515967	7.911	ppbv 98
21) Allyl Chloride	4.48	41	932482	9.619	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	597099	8.898	ppbv 97
23) Vinyl Acetate	5.16	43	2003711	10.068	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1483243	8.778	ppbv 99
25) Ethyl Acetate	5.77	43	2390473	9.040	ppbv 100
26) Hexane	5.78	57	1104089	8.867	ppbv 99
27) Carbon Disulfide	4.62	76	1535261	9.998	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1862921	9.585	ppbv 100
29) Chloroform	5.85	83	1854444	8.739	ppbv 98
30) Cyclohexane	7.25	84	960376	10.344	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1145901	9.911	ppbv 97
32) 1,1,1-Trichloroethane	6.62	97	1994934	9.263	ppbv 99
34) 2-Butanone	5.33	43	1508279	9.289	ppbv 100
35) Carbon Tetrachloride	7.13	117	2174302	9.059	ppbv 97
36) Benzene	7.01	78	2221466	9.705	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1464758	9.165	ppbv 99
38) Trichloroethene	7.96	130	942221	10.006	ppbv 97
39) 1,2-Dichloropropane	7.74	63	826372	9.610	ppbv 96
40) 1,4-Dioxane	7.95	88	318167	9.747	ppbv 96
41) Tetrahydrofuran	6.15	42	844540	10.219	ppbv 99
42) Bromodichloromethane	7.92	83	2024257	9.220	ppbv 98
43) Methyl Methacrylate	8.14	69	887930	10.338	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3743324	9.656	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1239729	11.595	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1404752	11.512	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	931057	9.267	ppbv	98
48) Dibromochloromethane	10.45	129	1811621	10.206	ppbv	100
49) Bromoform	13.20	173	1552611	10.011	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2105844	10.236	ppbv	99
51) 2-Hexanone	10.27	43	1650701	11.089	ppbv	100
52) Tetrachloroethene	11.38	164	835817	10.330	ppbv	97
53) Toluene	9.95	91	2639917	10.761	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1483104	10.246	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1280170	8.738	ppbv	99
57) Chlorobenzene	12.30	112	2084420	8.807	ppbv	99
58) Ethyl Benzene	12.86	91	3621286	10.115	ppbv	100
59) m/p-Xylene	13.13	91	6233610m	18.822	ppbv	
60) o-Xylene	13.85	91	3008198	9.278	ppbv	100
61) Styrene	13.69	104	2218327	10.723	ppbv	100
62) Isopropylbenzene	14.83	105	4266303	9.246	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2048847	8.507	ppbv	100
64) n-propylbenzene	15.72	120	1088735	9.288	ppbv	98
65) tert-Butylbenzene	16.91	119	3785020	9.261	ppbv	100
66) Benzyl Chloride	17.16	91	2296270	9.858	ppbv	100
67) sec-Butylbenzene	17.46	105	5293764	9.051	ppbv	100
69) p-Isopropyltoluene	17.82	119	4373242	9.212	ppbv	100
70) n-Butylbenzene	18.72	91	4310610	9.033	ppbv	100
71) 2-Chlorotoluene	15.62	91	3135202	9.581	ppbv	100
72) 4-Ethyltoluene	16.00	105	3465376	9.726	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3279697	9.329	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3406938	8.750	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1909717	8.333	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1872967	8.972	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1811179	8.775	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1390087	8.769	ppbv	100
79) Naphthalene	22.42	128	3175813	9.684	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1257599	12.636	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1505691	9.504	ppbv	99

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

