

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033061.D
 Acq On : 4 Jan 2019 9:14
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:59 AM

Quant Time: Jan 04 10:06:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1627308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3944834	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4444748m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	3370965	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1282852	3.535	ppbv	99
3) Chlorodifluoromethane	3.01	51	1289247	6.509	ppbv	99
4) Chloromethane	3.17	50	728170	6.325	ppbv	96
5) Vinyl Chloride	3.29	62	748228	6.120	ppbv	99
6) Bromomethane	3.52	94	672333	9.034	ppbv	97
7) Chloroethane	3.60	64	382671	9.109	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1864414	6.450	ppbv	99
9) Propene	3.04	41	511777	6.658	ppbv	100
10) Heptane	8.25	43	1850981	9.414	ppbv	100
11) Trichlorofluoromethane	4.00	101	2704980	8.474	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1806156	8.372	ppbv	99
13) Ethanol	3.65	45	211941	7.078	ppbv	94
14) Bromoethene	3.79	108	845054	9.197	ppbv	99
15) Acetone	3.90	43	1758891	8.264	ppbv	100
16) 1,3-Butadiene	3.36	39	590964	6.373	ppbv	94
17) tert-Butyl alcohol	4.36	59	484110	10.183	ppbv	99
18) 1,1-Dichloroethene	4.35	96	854098	8.835	ppbv	97
19) Isopropyl Alcohol	4.02	45	1404274	9.876	ppbv	99
20) Methylene Chloride	4.41	84	722858	7.675	ppbv	99
21) Allyl Chloride	4.48	41	1322732	9.139	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	834248	8.836	ppbv	96
23) Vinyl Acetate	5.16	43	2681009	9.115	ppbv	99
24) 1,1-Dichloroethane	5.09	63	2066808	8.465	ppbv	99
25) Ethyl Acetate	5.77	43	3260772	8.556	ppbv	100
26) Hexane	5.78	57	1516825	8.398	ppbv	99
27) Carbon Disulfide	4.62	76	2107279	9.330	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	2574795	9.099	ppbv	100
29) Chloroform	5.85	83	2559787	8.546	ppbv	99
30) Cyclohexane	7.25	84	1262299	9.304	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1558772	9.316	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2643555	8.365	ppbv	99
34) 2-Butanone	5.33	43	2066119	8.971	ppbv	100
35) Carbon Tetrachloride	7.14	117	2845398	8.355	ppbv	99
36) Benzene	7.01	78	3003622	9.254	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1994147	9.030	ppbv	100
38) Trichloroethene	7.96	130	1291149	9.524	ppbv	95
39) 1,2-Dichloropropane	7.74	63	1121132	9.208	ppbv	97
40) 1,4-Dioxane	7.96	88	410022	8.872	ppbv #	1
41) Tetrahydrofuran	6.15	42	1150563	9.797	ppbv	98
42) Bromodichloromethane	7.92	83	2778257	8.745	ppbv	99
43) Methyl Methacrylate	8.14	69	1218642	10.070	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5072027	8.826	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1717726	10.271	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1947470	10.711	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	1281045	8.716	ppbv	97
48) Dibromochloromethane	10.45	129	2406301	9.871	ppbv	99
49) Bromoform	13.21	173	2345896	10.441	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2907617	9.390	ppbv	100
51) 2-Hexanone	10.27	43	2216554	10.595	ppbv	100
52) Tetrachloroethene	11.38	164	1115322	9.493	ppbv	99
53) Toluene	9.95	91	3538591	10.591	ppbv	99
54) 1,2-Dibromoethane	10.76	107	2023912	9.478	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1942270	8.634	ppbv	100
57) Chlorobenzene	12.31	112	3188428	8.847	ppbv	99
58) Ethyl Benzene	12.87	91	5539074	10.130	ppbv	98
59) m/p-Xylene	13.16	91	9456207m	18.622	ppbv	
60) o-Xylene	13.85	91	4584928	9.237	ppbv	100
61) Styrene	13.69	104	3434871	10.730	ppbv	100
62) Isopropylbenzene	14.83	105	6409242	9.040	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	3104891	7.991	ppbv	100
64) n-propylbenzene	15.73	120	1643024	9.398	ppbv	99
65) tert-Butylbenzene	16.92	119	5741020	9.097	ppbv	100
66) Benzyl Chloride	17.16	91	3493216	9.848	ppbv	100
67) sec-Butylbenzene	17.46	105	7938040	8.921	ppbv	100
69) p-Isopropyltoluene	17.82	119	6611663	9.185	ppbv	100
70) n-Butylbenzene	18.72	91	6621935	9.014	ppbv	99
71) 2-Chlorotoluene	15.62	91	4786403	9.530	ppbv	100
72) 4-Ethyltoluene	16.01	105	5296756	9.577	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	5010980	9.282	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	5169124	8.717	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2888339	8.318	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2850115	9.022	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2735059	8.605	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1535165	6.872	ppbv	100
79) Naphthalene	22.42	128	4917133	9.127	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1921659	12.863	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2269218m	9.249	ppbv	

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

