

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL103018\
 Data File : VL032699.D
 Acq On : 30 Oct 2018 13:27
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/31/2018 10:39:57 AM

Quant Time: Oct 31 06:06:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1482750	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3759030	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4121355m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	2825941	9.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1888268	12.499	ppbv	99
3) Chlorodifluoromethane	3.02	51	1122750	9.682	ppbv	99
4) Chloromethane	3.18	50	635722	9.810	ppbv	99
5) Vinyl Chloride	3.30	62	644837	9.187	ppbv	99
6) Bromomethane	3.53	94	402100	9.188	ppbv	94
7) Chloroethane	3.61	64	243708	9.429	ppbv	94
8) Dichlorotetrafluoroethane	3.23	85	1504765	9.450	ppbv	91
9) Propene	3.05	41	503424	10.549	ppbv	100
10) Heptane	8.26	43	1943308	10.567	ppbv	99
11) Trichlorofluoromethane	4.02	101	1682755	8.528	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1619771	9.870	ppbv	92
13) Ethanol	3.66	45	121542	8.911	ppbv	95
14) Bromoethene	3.80	108	525196	9.470	ppbv	99
15) Acetone	3.91	43	1114455	8.139	ppbv	100
16) 1,3-Butadiene	3.37	39	511868	10.162	ppbv	84
17) tert-Butyl alcohol	4.37	59	462766	11.492	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	760794	10.553	ppbv	95
19) Isopropyl Alcohol	4.04	45	803472	8.240	ppbv #	98
20) Methylene Chloride	4.42	84	661357	9.516	ppbv	96
21) Allyl Chloride	4.49	41	1264169	11.245	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	724483	9.797	ppbv	95
23) Vinyl Acetate	5.17	43	2638293	10.874	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1932660	10.147	ppbv	98
25) Ethyl Acetate	5.79	43	3154635	10.010	ppbv	99
26) Hexane	5.80	57	1466456	9.834	ppbv	99
27) Carbon Disulfide	4.63	76	1756322	9.709	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2413749	11.263	ppbv	100
29) Chloroform	5.87	83	2379883	9.991	ppbv	99
30) Cyclohexane	7.26	84	1329264	11.262	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1451878	10.501	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2377786	9.823	ppbv	98
34) 2-Butanone	5.35	43	2083088	10.337	ppbv	100
35) Carbon Tetrachloride	7.15	117	2549447	9.556	ppbv	99
36) Benzene	7.02	78	3117015	10.211	ppbv	100
37) 1,2-Dichloroethane	6.43	62	1798605	9.607	ppbv	97
38) Trichloroethene	7.98	130	1201343	10.631	ppbv	97
39) 1,2-Dichloropropane	7.76	63	1206245	10.233	ppbv	97
40) 1,4-Dioxane	7.98	88	409897	10.182	ppbv #	97
41) Tetrahydrofuran	6.17	42	1251383	11.144	ppbv	100
42) Bromodichloromethane	7.94	83	2609824	9.949	ppbv	99
43) Methyl Methacrylate	8.16	69	1268541	11.339	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5301475	10.174	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1814427	12.116	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	2040763	11.928	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1421831	10.208	ppbv	96
48) Dibromochloromethane	10.47	129	2243692	9.664	ppbv	100
49) Bromoform	13.22	173	1957000	10.727	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3366970	11.278	ppbv	99
51) 2-Hexanone	10.29	43	2343761	10.561	ppbv	98
52) Tetrachloroethene	11.40	164	1077696	10.126	ppbv	97
53) Toluene	9.97	91	3990026	11.403	ppbv	99
54) 1,2-Dibromoethane	10.78	107	1941496	10.256	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.30	131	1615692	8.965	ppbv	98
57) Chlorobenzene	12.32	112	2741841	9.046	ppbv	96
58) Ethyl Benzene	12.88	91	4874304	10.180	ppbv	99
59) m/p-Xylene	13.15	91	8096463m	18.990	ppbv	
60) o-Xylene	13.87	91	3890534	9.460	ppbv	99
61) Styrene	13.71	104	2997792	10.871	ppbv	98
62) Isopropylbenzene	14.85	105	5501074	9.451	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2727464	8.464	ppbv	100
64) n-propylbenzene	15.74	120	1421054	9.823	ppbv	93
65) tert-Butylbenzene	16.93	119	4747149	9.576	ppbv	96
66) Benzyl Chloride	17.18	91	2835744	11.079	ppbv	98
67) sec-Butylbenzene	17.48	105	6703211	9.507	ppbv	99
69) p-Isopropyltoluene	17.84	119	5516942	9.875	ppbv	98
70) n-Butylbenzene	18.73	91	5603962	9.743	ppbv	99
71) 2-Chlorotoluene	15.64	91	4103326	9.919	ppbv	98
72) 4-Ethyltoluene	16.02	105	4476394	10.219	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4200680	9.845	ppbv	97
74) 1,2,4-Trimethylbenzene	16.95	105	4275479	9.383	ppbv	96
75) 1,3-Dichlorobenzene	17.19	146	2381628	9.090	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2347800	9.710	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2304082	9.282	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	896082	7.640	ppbv	98
79) Naphthalene	22.43	128	3344776	11.811	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1186129	17.224	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1630003	11.113	ppbv	98

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

