

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032926.D
 Acq On : 7 Dec 2018 7:29
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:28 AM

Quant Time: Dec 07 08:11:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 08:11:33 2018
 QLast Update : Fri Dec 07 07:35:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1169233	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3099274	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3183548	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2316640	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1861594	11.345	ppbv	98
3) Chlorodifluoromethane	3.02	51	1246108	13.858	ppbv	99
4) Chloromethane	3.17	50	667419	12.518	ppbv	98
5) Vinyl Chloride	3.29	62	700324	13.111	ppbv	98
6) Bromomethane	3.52	94	474732	14.343	ppbv	98
7) Chloroethane	3.60	64	273887	14.464	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1750578	13.166	ppbv	100
9) Propene	3.04	41	502112	14.184	ppbv	99
10) Heptane	8.25	43	2205779	17.280	ppbv	99
11) Trichlorofluoromethane	4.01	101	2041606	13.629	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1740285	13.614	ppbv	100
13) Ethanol	3.65	45	123799	9.355	ppbv	96
14) Bromoethene	3.79	108	625514	15.020	ppbv	99
15) Acetone	3.90	43	1289029	12.399	ppbv	100
16) 1,3-Butadiene	3.37	39	565357	15.279	ppbv	95
17) tert-Butyl alcohol	4.36	59	326104	12.304	ppbv #	83
18) 1,1-Dichloroethene	4.36	96	648698	12.817	ppbv	98
19) Isopropyl Alcohol	4.03	45	860718	13.358	ppbv	100
20) Methylene Chloride	4.41	84	561898	10.817	ppbv	98
21) Allyl Chloride	4.48	41	1286521	15.924	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	935453	15.426	ppbv	98
23) Vinyl Acetate	5.17	43	2880902	17.708	ppbv	100
24) 1,1-Dichloroethane	5.10	63	2124556	14.232	ppbv	99
25) Ethyl Acetate	5.78	43	3409785	14.236	ppbv	100
26) Hexane	5.79	57	1568709	14.174	ppbv	98
27) Carbon Disulfide	4.62	76	2052419	14.997	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2637609	16.330	ppbv	100
29) Chloroform	5.86	83	2705977	13.596	ppbv	96
30) Cyclohexane	7.25	84	1491140	16.841	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1657757	16.929	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	3013855	14.518	ppbv	99
34) 2-Butanone	5.34	43	2056025	15.288	ppbv	98
35) Carbon Tetrachloride	7.14	117	3295193	13.309	ppbv	99
36) Benzene	7.01	78	3489771	15.388	ppbv	98
37) 1,2-Dichloroethane	6.42	62	2269331	14.530	ppbv	99
38) Trichloroethene	7.97	130	1444139	15.260	ppbv	98
39) 1,2-Dichloropropane	7.75	63	1318872	15.321	ppbv	95
40) 1,4-Dioxane	7.96	88	471030	14.741	ppbv #	97
41) Tetrahydrofuran	6.15	42	1368191	16.655	ppbv	99
42) Bromodichloromethane	7.93	83	3171776	14.689	ppbv	98
43) Methyl Methacrylate	8.15	69	1437330	17.608	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5931233	15.412	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2020026	21.087	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	2436541	20.676	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1405232	14.710	ppbv	98
48) Dibromochloromethane	10.46	129	2836884	16.132	ppbv	100
49) Bromoform	13.22	173	2380859	16.551	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3653097	17.482	ppbv	100
51) 2-Hexanone	10.28	43	2589585	18.517	ppbv	99
52) Tetrachloroethene	11.39	164	1280216	15.515	ppbv	98
53) Toluene	9.96	91	4143673	17.773	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2535546	17.662	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1947898	13.438	ppbv #	73
57) Chlorobenzene	12.31	112	3165658	13.491	ppbv	98
58) Ethyl Benzene	12.88	91	5660341	17.143	ppbv	98
59) m/p-Xylene	13.14	91	9510800m	31.120	ppbv	
60) o-Xylene	13.86	91	4925197	16.064	ppbv	99
61) Styrene	13.70	104	3733878	19.020	ppbv	100
62) Isopropylbenzene	14.84	105	6639368	15.383	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	3381119	13.851	ppbv	99
64) n-propylbenzene	15.73	120	1720252	15.335	ppbv	96
65) tert-Butylbenzene	16.92	119	5842855	14.414	ppbv	99
66) Benzyl Chloride	17.17	91	3977742	18.732	ppbv	99
67) sec-Butylbenzene	17.47	105	8867798	14.944	ppbv	99
69) p-Isopropyltoluene	17.83	119	7622720	16.094	ppbv	100
70) n-Butylbenzene	18.72	91	6985792	16.015	ppbv	99
71) 2-Chlorotoluene	15.63	91	5268088	16.699	ppbv	100
72) 4-Ethyltoluene	16.01	105	5830627	17.315	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5567835	16.830	ppbv	96
74) 1,2,4-Trimethylbenzene	16.94	105	5278021	13.521	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	3336425	14.758	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	3325766	16.035	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3195296	15.231	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1838027	16.119	ppbv	99
79) Naphthalene	22.42	128	4510216	19.301	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1255361	27.856	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2249035	17.805	ppbv	99

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

