

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033050.D
 Acq On : 21 Dec 2018 11:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:36 AM

Quant Time: Dec 22 05:49:14 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
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	927244	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2292914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2244802m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1735358	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1230050	9.937	ppbv	96
3) Chlorodifluoromethane	3.02	51	1041239	14.827	ppbv	100
4) Chloromethane	3.17	50	548286	13.411	ppbv	96
5) Vinyl Chloride	3.30	62	574126	13.802	ppbv	98
6) Bromomethane	3.52	94	411687	15.823	ppbv	97
7) Chloroethane	3.61	64	225149	15.101	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	1492441	14.508	ppbv	100
9) Propene	3.04	41	387105	13.941	ppbv	99
10) Heptane	8.26	43	1140996	10.939	ppbv	100
11) Trichlorofluoromethane	4.01	101	1793644	15.380	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1195030	12.010	ppbv	99
13) Ethanol	3.65	45	105141	10.997	ppbv	94
14) Bromoethene	3.80	108	523712	15.853	ppbv	100
15) Acetone	3.91	43	1117812	14.045	ppbv	100
16) 1,3-Butadiene	3.37	39	466798	14.783	ppbv	94
17) tert-Butyl alcohol	4.36	59	318008	15.694	ppbv #	81
18) 1,1-Dichloroethene	4.36	96	540023	13.858	ppbv	98
19) Isopropyl Alcohol	4.03	45	861146	17.229	ppbv	99
20) Methylene Chloride	4.42	84	466385	11.990	ppbv	98
21) Allyl Chloride	4.49	41	833403	12.849	ppbv	100
22) trans-1,2-Dichloroethene	4.98	96	534923	11.061	ppbv	98
23) Vinyl Acetate	5.17	43	1598699	11.864	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1290664	11.015	ppbv	99
25) Ethyl Acetate	5.78	43	2009495	10.688	ppbv	100
26) Hexane	5.79	57	915816	10.551	ppbv	98
27) Carbon Disulfide	4.63	76	1340668	12.353	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1569762	12.041	ppbv	99
29) Chloroform	5.86	83	1604885	10.362	ppbv	97
30) Cyclohexane	7.26	84	790652	10.990	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	961549	12.072	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	1709680	10.433	ppbv	100
34) 2-Butanone	5.34	43	1310612	13.122	ppbv	100
35) Carbon Tetrachloride	7.15	117	1833563	10.174	ppbv	99
36) Benzene	7.02	78	1857660	11.015	ppbv	98
37) 1,2-Dichloroethane	6.43	62	1269338	11.055	ppbv	100
38) Trichloroethene	7.98	130	800548	11.406	ppbv	97
39) 1,2-Dichloropropane	7.75	63	679274	10.620	ppbv	95
40) 1,4-Dioxane	7.97	88	254452	10.801	ppbv #	95
41) Tetrahydrofuran	6.16	42	683985	11.011	ppbv	99
42) Bromodichloromethane	7.93	83	1748387	10.990	ppbv	99
43) Methyl Methacrylate	8.15	69	765294	12.246	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	3164301	11.053	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1048397	13.683	ppbv	100
46) cis-1,3-Dichloropropene	8.85	75	1197011	12.764	ppbv	95
47) 1,1,2-Trichloroethane	9.63	97	796413	11.313	ppbv	98
48) Dibromochloromethane	10.47	129	1489519	11.278	ppbv	100
49) Bromoform	13.22	173	1288086	11.858	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	1818089	11.383	ppbv	100
51) 2-Hexanone	10.28	43	1358335	12.541	ppbv	99
52) Tetrachloroethene	11.39	164	688502	11.223	ppbv	94
53) Toluene	9.96	91	2218173	12.401	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1257259	11.432	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1074125	10.733	ppbv	97
57) Chlorobenzene	12.32	112	1719544	10.606	ppbv	99
58) Ethyl Benzene	12.88	91	3048716	12.731	ppbv	100
59) m/p-Xylene	13.14	91	5261025m	24.232	ppbv	
60) o-Xylene	13.87	91	2580807	11.771	ppbv	99
61) Styrene	13.70	104	1863146	12.775	ppbv	100
62) Isopropylbenzene	14.84	105	3616069	11.821	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	1765406	10.370	ppbv	99
64) n-propylbenzene	15.74	120	921603	11.600	ppbv	98
65) tert-Butylbenzene	16.92	119	3359344	11.846	ppbv	99
66) Benzyl Chloride	17.17	91	2030652	12.919	ppbv	99
67) sec-Butylbenzene	17.48	105	4715825	11.279	ppbv	100
69) p-Isopropyltoluene	17.83	119	3964323	11.700	ppbv	99
70) n-Butylbenzene	18.73	91	4048309	12.986	ppbv	100
71) 2-Chlorotoluene	15.63	91	2712257	11.923	ppbv	99
72) 4-Ethyltoluene	16.02	105	2980667	12.177	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2894011	12.111	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3045944	11.289	ppbv	99
75) 1,3-Dichlorobenzene	17.18	146	1717891	10.811	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	1689985	11.398	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1705396	11.493	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1102324	13.508	ppbv	99
79) Naphthalene	22.43	128	2407425	13.818	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	616509	16.562	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1170945	12.673	ppbv	100

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

