

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033652.D
 Acq On : 3 May 2019 6:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:20:01 AM

Quant Time: May 03 08:41:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 08:41:33 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	969125	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2308201	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2634139m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2063775	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2250088	15.406	ppbv	98
3) Chlorodifluoromethane	3.01	51	1236534	10.672	ppbv	100
4) Chloromethane	3.17	50	683411	10.829	ppbv	98
5) Vinyl Chloride	3.29	62	687517	10.383	ppbv	99
6) Bromomethane	3.51	94	431936	11.084	ppbv	98
7) Chloroethane	3.60	64	246265	11.156	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1780135	11.203	ppbv	98
9) Propene	3.03	41	517842	15.608	ppbv	86
10) Heptane	8.25	43	1328679	10.830	ppbv	99
11) Trichlorofluoromethane	4.00	101	1960780	11.295	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1286790	10.808	ppbv	98
13) Ethanol	3.65	45	106845	7.103	ppbv	99
14) Bromoethene	3.79	108	527709	10.798	ppbv	97
15) Acetone	3.90	43	1217428	10.318	ppbv	99
16) 1,3-Butadiene	3.36	39	625090	11.772	ppbv	99
17) tert-Butyl alcohol	4.35	59	964092	9.464	ppbv	100
18) 1,1-Dichloroethene	4.35	96	569284	11.003	ppbv	99
19) Isopropyl Alcohol	4.02	45	783786	9.679	ppbv	100
20) Methylene Chloride	4.41	84	480868	10.458	ppbv	95
21) Allyl Chloride	4.47	41	830176	11.185	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	584598	11.537	ppbv	98
23) Vinyl Acetate	5.15	43	1833904	10.452	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1284768	9.836	ppbv	100
25) Ethyl Acetate	5.77	43	2200528	9.827	ppbv	100
26) Hexane	5.78	57	964990	10.234	ppbv	99
27) Carbon Disulfide	4.62	76	1422015	12.453	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1568128	9.862	ppbv	100
29) Chloroform	5.85	83	1670297	9.666	ppbv	96
30) Cyclohexane	7.24	84	839175	10.513	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1001047	10.519	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1751358	9.683	ppbv	99
34) 2-Butanone	5.33	43	1443219	10.185	ppbv	99
35) Carbon Tetrachloride	7.13	117	1896959	10.374	ppbv	99
36) Benzene	7.00	78	2098456	10.670	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1322238	10.118	ppbv	99
38) Trichloroethene	7.96	130	851877	10.861	ppbv	99
39) 1,2-Dichloropropane	7.74	63	763435	10.294	ppbv	98
40) 1,4-Dioxane	7.95	88	304932	10.119	ppbv	81
41) Tetrahydrofuran	6.15	42	798912	10.557	ppbv	100
42) Bromodichloromethane	7.92	83	1863509	10.537	ppbv	97
43) Methyl Methacrylate	8.14	69	836136	11.227	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3531335	10.303	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1165341	11.781	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1300266	11.654	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	878589	9.083	ppbv	98
48) Dibromochloromethane	10.45	129	1613026	9.860	ppbv	99
49) Bromoform	13.20	173	1430345	11.413	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2302231	10.369	ppbv	100
51) 2-Hexanone	10.27	43	1867880	9.582	ppbv	100
52) Tetrachloroethene	11.37	164	804474	10.639	ppbv	96
53) Toluene	9.95	91	2450270	9.872	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1409210	10.592	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1094206	9.644	ppbv	95
57) Chlorobenzene	12.30	112	1922908	9.512	ppbv	98
58) Ethyl Benzene	12.86	91	3458964	11.404	ppbv	99
59) m/p-Xylene	13.15	91	5821922m	22.311	ppbv	
60) o-Xylene	13.85	91	2930317	11.117	ppbv	99
61) Styrene	13.68	104	2189409	12.152	ppbv	100
62) Isopropylbenzene	14.82	105	3903893	11.082	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1956509	9.508	ppbv	99
64) n-propylbenzene	15.72	120	1006392	11.014	ppbv	100
65) tert-Butylbenzene	16.91	119	3531558	10.720	ppbv	100
66) Benzyl Chloride	17.15	91	1858252	12.439	ppbv	100
67) sec-Butylbenzene	17.46	105	4952396	10.704	ppbv	100
69) p-Isopropyltoluene	17.81	119	4099494	10.651	ppbv	100
70) n-Butylbenzene	18.71	91	4269144	10.191	ppbv	100
71) 2-Chlorotoluene	15.61	91	2949023	11.193	ppbv	100
72) 4-Ethyltoluene	16.00	105	3441332	11.462	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3266683	11.064	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3408597	10.351	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1974553	9.632	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1964739	10.051	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1877787	9.846	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1729834	11.863	ppbv	100
79) Naphthalene	22.41	128	3840685	12.646	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1695013	12.874	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	1960864	11.134	ppbv	99

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

