

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032982.D
 Acq On : 12 Dec 2018 12:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:59 AM

Quant Time: Dec 12 15:09:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 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	1361500	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3603328	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3479986m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2455091	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1189962	6.547	ppbv	98
3) Chlorodifluoromethane	3.01	51	1091977	10.590	ppbv	94
4) Chloromethane	3.17	50	692255	11.532	ppbv	97
5) Vinyl Chloride	3.29	62	677610	11.094	ppbv	100
6) Bromomethane	3.52	94	430548	11.270	ppbv	96
7) Chloroethane	3.60	64	252333	11.527	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1672763	11.075	ppbv	97
9) Propene	3.04	41	544407	13.353	ppbv	96
10) Heptane	8.25	43	1980226	12.930	ppbv	99
11) Trichlorofluoromethane	4.01	101	1672414	9.766	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1368076	9.364	ppbv	99
13) Ethanol	3.65	45	133116	9.483	ppbv	94
14) Bromoethene	3.79	108	537231	11.075	ppbv	98
15) Acetone	3.90	43	1168500	9.999	ppbv	97
16) 1,3-Butadiene	3.36	39	580884	12.529	ppbv	99
17) tert-Butyl alcohol	4.36	59	400436	13.459	ppbv #	82
18) 1,1-Dichloroethene	4.35	96	647072	11.309	ppbv	97
19) Isopropyl Alcohol	4.03	45	936326	12.758	ppbv #	99
20) Methylene Chloride	4.41	84	584396	10.232	ppbv	98
21) Allyl Chloride	4.48	41	1048383	11.008	ppbv	96
22) trans-1,2-Dichloroethene	4.97	96	650689	9.163	ppbv	99
23) Vinyl Acetate	5.16	43	2638367	13.334	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1882041	10.939	ppbv	100
25) Ethyl Acetate	5.77	43	3049532	11.047	ppbv	99
26) Hexane	5.78	57	1394331	10.940	ppbv	97
27) Carbon Disulfide	4.62	76	1587748	9.964	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2430289	12.696	ppbv	99
29) Chloroform	5.86	83	2191572	9.637	ppbv	94
30) Cyclohexane	7.25	84	1233579	11.678	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1360755	11.635	ppbv	95
32) 1,1,1-Trichloroethane	6.63	97	2310497	9.602	ppbv	98
34) 2-Butanone	5.33	43	1756827	11.193	ppbv	100
35) Carbon Tetrachloride	7.14	117	2396922	8.463	ppbv	99
36) Benzene	7.01	78	2974917	11.225	ppbv	97
37) 1,2-Dichloroethane	6.42	62	1654981	9.172	ppbv	97
38) Trichloroethene	7.97	130	1228347	11.137	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1137550	11.317	ppbv	90
40) 1,4-Dioxane	7.96	88	379393	10.247	ppbv #	1
41) Tetrahydrofuran	6.15	42	1232268	12.624	ppbv	98
42) Bromodichloromethane	7.92	83	2445218	9.781	ppbv	98
43) Methyl Methacrylate	8.15	69	1222748	12.451	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5013482	11.144	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	1600804	13.294	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1866121	12.662	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1238845	11.198	ppbv	98
48) Dibromochloromethane	10.46	129	2210411	10.650	ppbv	100
49) Bromoform	13.21	173	1824692	10.689	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2921206	11.639	ppbv	100
51) 2-Hexanone	10.28	43	2221673	13.052	ppbv #	97
52) Tetrachloroethene	11.38	164	1069338	11.092	ppbv	97
53) Toluene	9.96	91	3470695	12.347	ppbv	98
54) 1,2-Dibromoethane	10.77	107	1930883	11.172	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.29	131	1554091	10.017	ppbv	98
57) Chlorobenzene	12.31	112	2668640	10.618	ppbv	99
58) Ethyl Benzene	12.87	91	4648103	12.521	ppbv	98
59) m/p-Xylene	13.16	91	7701594m	22.883	ppbv	
60) o-Xylene	13.86	91	3921049	11.536	ppbv	98
61) Styrene	13.69	104	2905053	12.849	ppbv	98
62) Isopropylbenzene	14.84	105	5697330	12.014	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2677154	10.144	ppbv	99
64) n-propylbenzene	15.73	120	1389635	11.282	ppbv	95
65) tert-Butylbenzene	16.92	119	4628881	10.529	ppbv	98
66) Benzyl Chloride	17.16	91	2768221	11.361	ppbv	98
67) sec-Butylbenzene	17.47	105	6592346	10.171	ppbv	100
69) p-Isopropyltoluene	17.83	119	5466740	10.407	ppbv	99
70) n-Butylbenzene	18.72	91	5455960	11.290	ppbv	99
71) 2-Chlorotoluene	15.62	91	3982436	11.293	ppbv	99
72) 4-Ethyltoluene	16.01	105	4404746	11.608	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4139408	11.174	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	4178053	9.988	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	2347201	9.529	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2350054	10.224	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2302780	10.011	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1092661	8.637	ppbv	99
79) Naphthalene	22.42	128	3816396	14.130	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1405126	24.349	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1763444	12.311	ppbv	99

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

