

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033771.D
 Acq On : 23 May 2019 12:37
 Operator : SY/AP
 Sample : VL0523ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:18 AM

Quant Time: May 24 04:46:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	880626	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2067996	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2379299m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1835933	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1419994	7.651	ppbv	100
3) Chlorodifluoromethane	3.01	51	1064544	10.553	ppbv	98
4) Chloromethane	3.17	50	601072	10.418	ppbv	99
5) Vinyl Chloride	3.29	62	600390	10.216	ppbv	99
6) Bromomethane	3.51	94	389230	10.854	ppbv	99
7) Chloroethane	3.60	64	228676	10.949	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1580330	10.562	ppbv	99
9) Propene	3.03	41	449850	10.485	ppbv	98
10) Heptane	8.24	43	1285843	10.583	ppbv	99
11) Trichlorofluoromethane	4.00	101	1908935	10.777	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1278283	10.334	ppbv	99
13) Ethanol	3.64	45	89505	6.454	ppbv	100
14) Bromoethene	3.79	108	504833	11.102	ppbv	99
15) Acetone	3.90	43	1185151	9.700	ppbv	97
16) 1,3-Butadiene	3.36	39	546240	11.227	ppbv	98
17) tert-Butyl alcohol	4.35	59	1016796	10.292	ppbv	99
18) 1,1-Dichloroethene	4.35	96	557152	10.672	ppbv	94
19) Isopropyl Alcohol	4.02	45	762588	9.680	ppbv	# 98
20) Methylene Chloride	4.41	84	472352	10.041	ppbv	97
21) Allyl Chloride	4.47	41	820289	10.763	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	573594	10.719	ppbv	95
23) Vinyl Acetate	5.15	43	1740210	10.802	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1239338	10.120	ppbv	99
25) Ethyl Acetate	5.76	43	2182106	10.167	ppbv	100
26) Hexane	5.78	57	954311	10.342	ppbv	98
27) Carbon Disulfide	4.62	76	1417550	11.198	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1565313	10.406	ppbv	99
29) Chloroform	5.85	83	1658208	9.756	ppbv	100
30) Cyclohexane	7.24	84	805562	10.384	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	971777	10.622	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1703097	10.035	ppbv	100
34) 2-Butanone	5.32	43	1412806	11.022	ppbv	99
35) Carbon Tetrachloride	7.13	117	1841536	11.117	ppbv	99
36) Benzene	7.00	78	1956538	10.401	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1284086	10.582	ppbv	100
38) Trichloroethene	7.96	130	859824	12.318	ppbv	97
39) 1,2-Dichloropropane	7.73	63	763429	10.885	ppbv	99
40) 1,4-Dioxane	7.95	88	297630	10.145	ppbv	# 99
41) Tetrahydrofuran	6.14	42	780911	10.873	ppbv	99
42) Bromodichloromethane	7.91	83	1892622	11.393	ppbv	94
43) Methyl Methacrylate	8.13	69	823612	11.897	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3478239	10.940	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1087544	12.391	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	1220721	11.878	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	845439	10.611	ppbv	95
48) Dibromochloromethane	10.45	129	1580418	11.448	ppbv	99
49) Bromoform	13.20	173	1435787	12.360	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2194709	11.131	ppbv	99
51) 2-Hexanone	10.26	43	1793310	11.654	ppbv #	98
52) Tetrachloroethene	11.37	164	764254	11.557	ppbv	98
53) Toluene	9.94	91	2351082	11.587	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1342502	11.041	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1058181	9.611	ppbv	99
57) Chlorobenzene	12.29	112	1849307	9.442	ppbv	99
58) Ethyl Benzene	12.86	91	3348699	10.628	ppbv	99
59) m/p-Xylene	13.15	91	5644875m	20.495	ppbv	
60) o-Xylene	13.84	91	2841057	10.232	ppbv	99
61) Styrene	13.68	104	2094122	11.203	ppbv	99
62) Isopropylbenzene	14.82	105	3725688	9.964	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	2005911	9.935	ppbv	100
64) n-propylbenzene	15.72	120	978326	10.115	ppbv	94
65) tert-Butylbenzene	16.90	119	3485007	10.208	ppbv	99
66) Benzyl Chloride	17.15	91	1805120	11.102	ppbv	100
67) sec-Butylbenzene	17.45	105	4862680	10.177	ppbv	99
69) p-Isopropyltoluene	17.81	119	4022135	10.184	ppbv	99
70) n-Butylbenzene	18.71	91	4143918	9.784	ppbv	100
71) 2-Chlorotoluene	15.61	91	2859573	10.308	ppbv	99
72) 4-Ethyltoluene	15.99	105	3322525	10.466	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3196592	10.320	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3336300	9.897	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1918564	9.288	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1897294	9.664	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1853856	9.551	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1139174	7.763	ppbv	99
79) Naphthalene	22.40	128	2753453	8.794	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	889440	7.476	ppbv	96
81) 1,2,4-Trichlorobenzene	22.12	180	1569402	8.560	ppbv	99

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

