

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033843.D
 Acq On : 29 May 2019 19:29
 Operator : SY/AP
 Sample : VL0529ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0529ABS01

Manual Integrations
 APPROVED

apatel
 5/31/2019 12:45:15 PM

Quant Time: May 30 02:22:21 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	742504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1814956	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1846686	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1489575	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1120922	7.163	ppbv 98
3) Chlorodifluoromethane	3.01	51	923464	10.858	ppbv 99
4) Chloromethane	3.17	50	527331	10.840	ppbv 99
5) Vinyl Chloride	3.29	62	539829	10.894	ppbv 96
6) Bromomethane	3.51	94	333890	11.043	ppbv 98
7) Chloroethane	3.60	64	200405	11.380	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1372419	10.879	ppbv 99
9) Propene	3.03	41	398956	11.028	ppbv 100
10) Heptane	8.24	43	1057694	10.325	ppbv 99
11) Trichlorofluoromethane	4.00	101	1617414	10.830	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1076661	10.324	ppbv 99
13) Ethanol	3.65	45	91700	7.843	ppbv 98
14) Bromoethene	3.78	108	446792	11.653	ppbv 98
15) Acetone	3.89	43	998176	9.689	ppbv 100
16) 1,3-Butadiene	3.36	39	477281	11.634	ppbv 100
17) tert-Butyl alcohol	4.35	59	956254	11.479	ppbv 99
18) 1,1-Dichloroethene	4.35	96	477831	10.855	ppbv 99
19) Isopropyl Alcohol	4.02	45	732645	11.030	ppbv 99
20) Methylene Chloride	4.40	84	404009	10.186	ppbv 98
21) Allyl Chloride	4.47	41	695629	10.826	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	493123	10.929	ppbv 96
23) Vinyl Acetate	5.15	43	1524982	11.227	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1088231	10.539	ppbv 100
25) Ethyl Acetate	5.76	43	1846190	10.202	ppbv 100
26) Hexane	5.77	57	814431	10.468	ppbv 99
27) Carbon Disulfide	4.62	76	1187473	11.125	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1420374	11.199	ppbv 100
29) Chloroform	5.85	83	1489893	10.396	ppbv 100
30) Cyclohexane	7.24	84	723269	11.058	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	842399	10.920	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1457390	10.185	ppbv 99
34) 2-Butanone	5.32	43	1211441	10.768	ppbv 99
35) Carbon Tetrachloride	7.13	117	1644543	11.312	ppbv 97
36) Benzene	7.00	78	1795225	10.874	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1139983	10.704	ppbv 99
38) Trichloroethene	7.96	130	694983	11.344	ppbv 99
39) 1,2-Dichloropropane	7.73	63	634582	10.309	ppbv 97
40) 1,4-Dioxane	7.95	88	271974	10.563	ppbv # 95
41) Tetrahydrofuran	6.15	42	708433	11.239	ppbv 99
42) Bromodichloromethane	7.91	83	1551133	10.639	ppbv 96
43) Methyl Methacrylate	8.13	69	672015	11.060	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2887943	10.350	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	916917	11.904	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1023198	11.344	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	704443	10.074	ppbv	99
48) Dibromochloromethane	10.45	129	1335826	11.025	ppbv	99
49) Bromoform	13.20	173	1244389	12.206	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	1812901	10.477	ppbv	100
51) 2-Hexanone	10.26	43	1477137	10.938	ppbv #	99
52) Tetrachloroethene	11.37	164	649373	11.189	ppbv	98
53) Toluene	9.94	91	1964632	11.033	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1140306	10.686	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	870986	10.193	ppbv	97
57) Chlorobenzene	12.29	112	1515794	9.972	ppbv	98
58) Ethyl Benzene	12.86	91	2888575	11.812	ppbv	99
59) m/p-Xylene	13.15	91	4948622m	23.149	ppbv	
60) o-Xylene	13.84	91	2380931	11.048	ppbv	99
61) Styrene	13.68	104	1839119	12.676	ppbv	99
62) Isopropylbenzene	14.82	105	3228811	11.126	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1648029	10.516	ppbv	99
64) n-propylbenzene	15.72	120	866181	11.539	ppbv	96
65) tert-Butylbenzene	16.90	119	3071450	11.592	ppbv	99
66) Benzyl Chloride	17.15	91	1515639	12.010	ppbv	99
67) sec-Butylbenzene	17.45	105	4123983	11.120	ppbv	100
69) p-Isopropyltoluene	17.81	119	3489379	11.384	ppbv	100
70) n-Butylbenzene	18.71	91	3598991	10.949	ppbv	99
71) 2-Chlorotoluene	15.61	91	2519000	11.699	ppbv	99
72) 4-Ethyltoluene	15.99	105	2953779	11.988	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2835238	11.794	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	2982040	11.398	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1681177	10.486	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1637898	10.749	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1592143	10.569	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	945705	8.303	ppbv	100
79) Naphthalene	22.40	128	2096007	8.625	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	618792	6.701	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1229199	8.638	ppbv	100

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

