

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033881.D
 Acq On : 7 Jun 2019 7:12
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL060719

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:46 AM

Quant Time: Jun 07 09:31:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 06:23:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1052239	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2448612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2612992	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2030923	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1366993	8.006	ppbv	99
3) Chlorodifluoromethane	3.01	51	1090002	8.799	ppbv	100
4) Chloromethane	3.16	50	636418	9.007	ppbv	99
5) Vinyl Chloride	3.28	62	641008	9.778	ppbv	97
6) Bromomethane	3.51	94	403763	9.270	ppbv	95
7) Chloroethane	3.59	64	241544	9.316	ppbv	98
8) Dichlorotetrafluoroethane	3.21	85	1639248	8.983	ppbv	99
9) Propene	3.03	41	465584	10.045	ppbv	99
10) Heptane	8.24	43	1336551	11.408	ppbv	98
11) Trichlorofluoromethane	3.99	101	1931628	8.768	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1423795	9.562	ppbv	99
13) Ethanol	3.64	45	88455	5.461	ppbv	97
14) Bromoethene	3.78	108	540761	9.746	ppbv	99
15) Acetone	3.89	43	1221208	7.958	ppbv	99
16) 1,3-Butadiene	3.35	39	563837	9.653	ppbv	97
17) tert-Butyl alcohol	4.35	59	1010048	8.419	ppbv	100
18) 1,1-Dichloroethene	4.34	96	581055	9.239	ppbv	98
19) Isopropyl Alcohol	4.01	45	717552	8.185	ppbv	100
20) Methylene Chloride	4.40	84	491117	8.206	ppbv	99
21) Allyl Chloride	4.47	41	923031	10.588	ppbv	98
22) trans-1,2-Dichloroethene	4.95	96	658241	9.929	ppbv	99
23) Vinyl Acetate	5.15	43	2006675	11.250	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1410771	10.168	ppbv	100
25) Ethyl Acetate	5.76	43	2395581	10.250	ppbv	100
26) Hexane	5.77	57	1062201	9.982	ppbv	98
27) Carbon Disulfide	4.61	76	1586809	10.733	ppbv	98
28) Methyl tert-Butyl Ether	5.10	73	1880758	11.688	ppbv	100
29) Chloroform	5.84	83	1813677	9.952	ppbv	99
30) Cyclohexane	7.24	84	868746	11.555	ppbv	98
31) cis-1,2-Dichloroethene	5.63	61	1087018	11.649	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1901292	10.815	ppbv	99
34) 2-Butanone	5.32	43	1581333	11.448	ppbv	99
35) Carbon Tetrachloride	7.12	117	1994120	10.541	ppbv	99
36) Benzene	6.99	78	2178475	11.647	ppbv	99
37) 1,2-Dichloroethane	6.40	62	1410517	10.197	ppbv	98
38) Trichloroethene	7.95	130	888920	12.206	ppbv	99
39) 1,2-Dichloropropane	7.72	63	805040	11.152	ppbv	94
40) 1,4-Dioxane	7.95	88	292856	9.946	ppbv	62
41) Tetrahydrofuran	6.13	42	861440	12.286	ppbv	99
42) Bromodichloromethane	7.91	83	1974647	10.682	ppbv	97
43) Methyl Methacrylate	8.13	69	864575	12.359	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3617601	10.876	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1183359	12.892	ppbv	98
46) cis-1,3-Dichloropropene	8.82	75	1340941	12.751	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	896810	10.421	ppbv	99
48) Dibromochloromethane	10.44	129	1688484	10.917	ppbv	96
49) Bromoform	13.19	173	1541502	11.291	ppbv	98
50) 4-Methyl-2-Pentanone	8.86	43	2324342	11.284	ppbv	99
51) 2-Hexanone	10.26	43	1911369	11.883	ppbv #	100
52) Tetrachloroethene	11.36	164	841603	12.787	ppbv	98
53) Toluene	9.93	91	2549943	12.319	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1444842	11.137	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1151312	10.086	ppbv	98
57) Chlorobenzene	12.29	112	1987351	10.155	ppbv	98
58) Ethyl Benzene	12.85	91	3561594	12.090	ppbv	99
59) m/p-Xylene	13.14	91	5906978m	22.049	ppbv	
60) o-Xylene	13.84	91	2979035	10.770	ppbv	100
61) Styrene	13.67	104	2192878	12.251	ppbv	99
62) Isopropylbenzene	14.81	105	4011969	10.762	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2094364	10.059	ppbv	99
64) n-propylbenzene	15.71	120	1050318	11.002	ppbv	98
65) tert-Butylbenzene	16.90	119	3775450	10.945	ppbv	100
66) Benzyl Chloride	17.15	91	2000331	11.443	ppbv	99
67) sec-Butylbenzene	17.44	105	5270134	10.890	ppbv	100
69) p-Isopropyltoluene	17.80	119	4367647	10.847	ppbv	100
70) n-Butylbenzene	18.70	91	4531709	10.276	ppbv	100
71) 2-Chlorotoluene	15.61	91	3097276	11.277	ppbv	98
72) 4-Ethyltoluene	15.99	105	3598940	11.434	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3459372	11.157	ppbv	97
74) 1,2,4-Trimethylbenzene	16.91	105	3662328	10.248	ppbv	96
75) 1,3-Dichlorobenzene	17.15	146	2107836	9.419	ppbv	100
76) 1,4-Dichlorobenzene	17.29	146	2089190	10.167	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1997528	9.672	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1175718	7.289	ppbv	99
79) Naphthalene	22.39	128	2637844	9.235	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	910947	7.993	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.12	180	1569661	8.704	ppbv	100

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

