

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033874.D
 Acq On : 7 Jun 2019 2:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Jun 07 06:24:37 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 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	938050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2190027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2379901	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1899859	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1285118	6.783	ppbv 100
3) Chlorodifluoromethane	3.01	51	1046015	9.685	ppbv 100
4) Chloromethane	3.16	50	605102	9.797	ppbv 100
5) Vinyl Chloride	3.28	62	601343	9.555	ppbv 100
6) Bromomethane	3.51	94	389231	10.128	ppbv 100
7) Chloroethane	3.59	64	226632	10.084	ppbv 100
8) Dichlorotetrafluoroethane	3.21	85	1601985	9.913	ppbv 100
9) Propene	3.03	41	422317	9.375	ppbv 100
10) Heptane	8.23	43	1171608	9.194	ppbv 100
11) Trichlorofluoromethane	3.99	101	1923815	10.131	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1311101	9.916	ppbv 100
13) Ethanol	3.64	45	102876	7.095	ppbv 100
14) Bromoethene	3.78	108	519484	10.511	ppbv 100
15) Acetone	3.89	43	1168552	8.994	ppbv 100
16) 1,3-Butadiene	3.35	39	536642	10.229	ppbv 100
17) tert-Butyl alcohol	4.35	59	1236570	11.443	ppbv 100
18) 1,1-Dichloroethene	4.34	96	574116	10.281	ppbv 100
19) Isopropyl Alcohol	4.01	45	890955	10.551	ppbv 99
20) Methylene Chloride	4.40	84	482560	9.560	ppbv 100
21) Allyl Chloride	4.47	41	817973	10.130	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	605409	10.395	ppbv 100
23) Vinyl Acetate	5.14	43	1718613	10.068	ppbv 100
24) 1,1-Dichloroethane	5.08	63	1240453	9.478	ppbv 100
25) Ethyl Acetate	5.76	43	2112744	9.316	ppbv 100
26) Hexane	5.77	57	923882	9.499	ppbv 100
27) Carbon Disulfide	4.61	76	1447142	10.713	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1647962	10.225	ppbv 100
29) Chloroform	5.84	83	1619817	8.984	ppbv 100
30) Cyclohexane	7.23	84	776453	9.557	ppbv 100
31) cis-1,2-Dichloroethene	5.63	61	945475	9.700	ppbv 100
32) 1,1,1-Trichloroethane	6.61	97	1721993	9.546	ppbv 100
34) 2-Butanone	5.32	43	1346538	9.946	ppbv 100
35) Carbon Tetrachloride	7.12	117	1827018	10.396	ppbv 100
36) Benzene	6.99	78	1866244	9.538	ppbv 100
37) 1,2-Dichloroethane	6.40	62	1291603	10.005	ppbv 100
38) Trichloroethene	7.95	130	817479	11.019	ppbv 100
39) 1,2-Dichloropropane	7.72	63	708508	9.661	ppbv 100
40) 1,4-Dioxane	7.94	88	314144	10.154	ppbv 100
41) Tetrahydrofuran	6.14	42	736457	9.896	ppbv 100
42) Bromodichloromethane	7.90	83	1785105	10.148	ppbv 100
43) Methyl Methacrylate	8.13	69	766690	10.558	ppbv 100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033874.D
 Acq On : 7 Jun 2019 2:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: Jun 07 06:24:37 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 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	3243517	9.733	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1073037	11.668	ppbv	100
46) cis-1,3-Dichloropropene	8.82	75	1201008	11.198	ppbv	100
47) 1,1,2-Trichloroethane	9.60	97	827035	9.845	ppbv	100
48) Dibromochloromethane	10.44	129	1586828	10.852	ppbv	100
49) Bromoform	13.19	173	1444043	11.518	ppbv	100
50) 4-Methyl-2-Pentanone	8.85	43	2096288	10.163	ppbv	100
51) 2-Hexanone	10.26	43	1739962	10.805	ppbv #	100
52) Tetrachloroethene	11.36	164	757292	10.868	ppbv	100
53) Toluene	9.93	91	2295479	10.788	ppbv	100
54) 1,2-Dibromoethane	10.74	107	1314232	10.269	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1056806	9.675	ppbv	98
57) Chlorobenzene	12.29	112	1824519	9.412	ppbv	100
58) Ethyl Benzene	12.85	91	3192115	10.309	ppbv	100
59) m/p-Xylene	13.14	91	5459685m	20.064	ppbv	
60) o-Xylene	13.83	91	2851804	10.300	ppbv	100
61) Styrene	13.67	104	2053125	11.123	ppbv	100
62) Isopropylbenzene	14.81	105	3809209	10.229	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	2011599	9.941	ppbv	100
64) n-propylbenzene	15.71	120	983307	10.229	ppbv	100
65) tert-Butylbenzene	16.89	119	3533224	10.386	ppbv	100
66) Benzyl Chloride	17.15	91	1988803	12.251	ppbv	100
67) sec-Butylbenzene	17.44	105	4935343	10.351	ppbv	100
69) p-Isopropyltoluene	17.80	119	4209485	10.674	ppbv	100
70) n-Butylbenzene	18.70	91	4460430	10.523	ppbv	100
71) 2-Chlorotoluene	15.61	91	2887146	10.461	ppbv	100
72) 4-Ethyltoluene	15.99	105	3382723	10.699	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3226370	10.434	ppbv	100
74) 1,2,4-Trimethylbenzene	16.91	105	3478067	10.310	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	2046326	9.882	ppbv	100
76) 1,4-Dichlorobenzene	17.29	146	2018147	10.275	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1983454	10.186	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1297769	8.894	ppbv	100
79) Naphthalene	22.39	128	3051718	10.083	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	1090108	10.006	ppbv	100
81) 1,2,4-Trichlorobenzene	22.12	180	1809969	10.010	ppbv	100

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

