

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025806.D
 Acq On : 31 Jul 2015 9:00
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 8/4/2015 12:03:27 PM

Quant Time: Jul 31 12:16:39 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 0
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	588261	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.34	114	1638143	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.77	117	1906987m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.31	95	1890241	11.75	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	117.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.65	85	1561119	10.24	ppbv	98
3) Chlorodifluoromethane	3.57	51	688891	8.31	ppbv	98
4) Chloromethane	3.76	50	303517	8.02	ppbv	100
5) Vinyl Chloride	3.90	62	344945	8.45	ppbv	100
6) Bromomethane	4.15	94	284388	8.58	ppbv	96
7) Chloroethane	4.25	64	159904	8.41	ppbv	95
8) Dichlorotetrafluoroethane	3.81	85	1140576	8.53	ppbv	99
9) Propene	3.60	41	212531	7.72	ppbv	96
10) Heptane	9.37	43	953054	8.89	ppbv	96
11) Trichlorofluoromethane	4.70	101	1796080	9.08	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.32	101	1018457	8.99	ppbv	100
13) Ethanol	4.34	45	25760	6.02	ppbv	97
14) Bromoethene	4.46	108	331207	8.91	ppbv	98
15) Acetone	4.61	43	828138	7.97	ppbv	99
16) 1,3-Butadiene	3.98	39	354161	8.56	ppbv	98
17) tert-Butyl alcohol	5.13	59	741918	8.51	ppbv	100
18) 1,1-Dichloroethene	5.09	96	385099	8.87	ppbv	95
19) Isopropyl Alcohol	4.76	45	309254	7.46	ppbv #	98
20) Methylene Chloride	5.16	84	349954	8.29	ppbv	92
21) Allyl Chloride	5.24	41	554096	8.52	ppbv	92
22) trans-1,2-Dichloroethene	5.78	96	380500	8.59	ppbv	98
23) Vinyl Acetate	5.99	43	1349514	8.57	ppbv	99
24) 1,1-Dichloroethane	5.92	63	893315	8.46	ppbv	99
25) Ethyl Acetate	6.68	43	1364455	8.68	ppbv	100
26) Hexane	6.67	57	631363	8.53	ppbv	98
27) Carbon Disulfide	5.40	76	1106288	9.23	ppbv	98
28) Methyl tert-Butyl Ether	5.96	73	1367180	9.29	ppbv	98
29) Chloroform	6.76	83	1272508	8.70	ppbv	99
30) Cyclohexane	8.30	84	644297	9.10	ppbv	98
31) cis-1,2-Dichloroethene	6.53	61	684493	9.30	ppbv	99
32) 1,1,1-Trichloroethane	7.61	97	1451284	9.13	ppbv	99
34) 2-Butanone	6.21	43	829288	8.92	ppbv	99
35) Carbon Tetrachloride	8.18	117	1580322	9.05	ppbv	99
36) Benzene	8.04	78	1381506	8.81	ppbv	99
37) 1,2-Dichloroethane	7.39	62	1188810	8.87	ppbv	99
38) Trichloroethene	9.08	130	653816	8.96	ppbv	99
39) 1,2-Dichloropropane	8.84	63	494105	8.53	ppbv	99
40) 1,4-Dioxane	9.14	88	70273	7.73	ppbv #	1
41) Tetrahydrofuran	7.13	42	421282	9.08	ppbv	98
42) Bromodichloromethane	9.04	83	1483535	9.18	ppbv	99
43) Methyl Methacrylate	9.28	69	576937	9.58	ppbv	99

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025806.D
 Acq On : 31 Jul 2015 9:00
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 8/4/2015 12:03:27 PM

Quant Time: Jul 31 12:16:39 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 0
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	2360576	8.77	ppbv	98
45) t-1,3-Dichloropropene	10.67	75	1037766	10.25	ppbv	99
46) cis-1,3-Dichloropropene	10.04	75	1115800	9.97	ppbv	99
47) 1,1,2-Trichloroethane	10.90	97	721917	8.95	ppbv	98
48) Dibromochloromethane	11.82	129	1362372	9.44	ppbv	99
49) Bromoform	14.83	173	1126222	9.47	ppbv	99
50) 4-Methyl-2-Pentanone	10.10	43	1274759	9.52	ppbv	99
51) 2-Hexanone	11.63	43	1231512	10.25	ppbv #	99
52) Tetrachloroethene	12.82	164	746475	9.49	ppbv	98
53) Toluene	11.26	91	2118154	9.61	ppbv	99
54) 1,2-Dibromoethane	12.16	107	1195026	9.16	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.81	131	1013655	9.83	ppbv	99
57) Chlorobenzene	13.83	112	1917920	9.45	ppbv	99
58) Ethyl Benzene	14.43	91	3337901	10.60	ppbv	100
59) m/p-Xylene	14.73	91	5554310m	20.07	ppbv	
60) o-Xylene	15.51	91	2956504	9.92	ppbv	100
61) Styrene	15.33	104	1241425	11.89	ppbv	99
62) Isopropylbenzene	16.57	105	3951105	10.14	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.51	83	1865102	9.25	ppbv	100
64) n-propylbenzene	17.54	120	1052802	10.00	ppbv	99
65) tert-Butylbenzene	18.83	119	3756272	9.82	ppbv	98
66) Benzyl Chloride	19.13	91	1402551	10.00	ppbv	100
67) sec-Butylbenzene	19.43	105	5248170	9.79	ppbv	100
69) p-Isopropyltoluene	19.81	119	4358339	9.87	ppbv	99
70) n-Butylbenzene	20.78	91	4279163	9.55	ppbv	99
71) 2-Chlorotoluene	17.45	91	2974548	10.41	ppbv	99
72) 4-Ethyltoluene	17.84	105	3411649	10.35	ppbv	99
73) 1,3,5-Trimethylbenzene	18.01	105	3297878	10.18	ppbv	99
74) 1,2,4-Trimethylbenzene	18.86	105	3488470	9.62	ppbv	93
75) 1,3-Dichlorobenzene	19.14	146	2155671	9.13	ppbv	99
76) 1,4-Dichlorobenzene	19.30	146	2216403	9.37	ppbv	100
77) 1,2-Dichlorobenzene	20.05	146	2145789	9.16	ppbv	99
78) Hexachloro-1,3-Butadiene	24.69	225	1061395	7.36	ppbv	99
79) Naphthalene	23.94	128	2758942	7.87	ppbv	99
80) Naphthalene,2-methyl-	26.06	142	715339	7.02	ppbv	99
81) 1,2,4-Trichlorobenzene	23.75	180	1325918	7.89	ppbv	99

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

```
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\  
Data File : VL025806.D  
Acq On    : 31 Jul 2015    9:00  
Operator  : SY/MD  
Sample    : VSTDCCC010  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

8/4/2015 12:03:27 PM

Quant Time: Jul 31 12:16:39 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration

