

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026173.D
 Acq On : 9 Oct 2015 11:40
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:25:28 PM

Quant Time: Oct 09 14:27:33 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 14:27:33 2015
 QLast Update : Fri Oct 09 14:20:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	934609	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	2537665	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	3044533	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	2282136	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	380694	2.84	ppbv	99
3) Chlorodifluoromethane	3.58	51	234411	2.19	ppbv	98
4) Chloromethane	3.76	50	129580	2.04	ppbv	99
5) Vinyl Chloride	3.90	62	129185	1.91	ppbv	97
6) Bromomethane	4.15	94	91134	2.14	ppbv	97
7) Chloroethane	4.25	64	55104	2.09	ppbv	98
8) Dichlorotetrafluoroethane	3.81	85	322969	2.22	ppbv	99
9) Propene	3.61	41	105521	1.94	ppbv	99
10) Heptane	9.37	43	365169	1.93	ppbv	99
11) Trichlorofluoromethane	4.70	101	353604	2.30	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.31	101	242570	2.29	ppbv	100
13) Ethanol	4.35	45	15716	2.38	ppbv	90
14) Bromoethene	4.46	108	99876	2.21	ppbv	99
15) Acetone	4.62	43	249750	2.15	ppbv #	84
16) 1,3-Butadiene	3.98	39	116559	2.02	ppbv	96
17) tert-Butyl alcohol	5.16	59	119577	1.59	ppbv	98
18) 1,1-Dichloroethene	5.09	96	108476	2.19	ppbv	98
19) Isopropyl Alcohol	4.78	45	91373	1.88	ppbv #	1
20) Methylene Chloride	5.16	84	105923	2.15	ppbv	97
21) Allyl Chloride	5.24	41	161610	2.02	ppbv	88
22) trans-1,2-Dichloroethene	5.78	96	138287	2.07	ppbv	99
23) Vinyl Acetate	5.99	43	448594	2.04	ppbv	99
24) 1,1-Dichloroethane	5.92	63	300665	2.03	ppbv	99
25) Ethyl Acetate	6.69	43	491285	1.99	ppbv	100
26) Hexane	6.67	57	237642	2.01	ppbv	99
27) Carbon Disulfide	5.40	76	282175	2.23	ppbv	100
28) Methyl tert-Butyl Ether	5.97	73	381505	2.12	ppbv	99
29) Chloroform	6.76	83	339454	2.07	ppbv	100
30) Cyclohexane	8.29	84	226052	2.00	ppbv	90
31) cis-1,2-Dichloroethene	6.53	61	211249	1.96	ppbv	97
32) 1,1,1-Trichloroethane	7.60	97	332328	2.02	ppbv	99
34) 2-Butanone	6.22	43	294034	1.81	ppbv	99
35) Carbon Tetrachloride	8.17	117	339784	2.00	ppbv	99
36) Benzene	8.03	78	515317	1.92	ppbv	99
37) 1,2-Dichloroethane	7.38	62	267559	2.00	ppbv	100
38) Trichloroethene	9.07	130	217614	1.86	ppbv	98
39) 1,2-Dichloropropane	8.84	63	188053	1.87	ppbv	97
40) 1,4-Dioxane	9.16	88	34573	2.34	ppbv #	1
41) Tetrahydrofuran	7.15	42	165992	1.74	ppbv	100
42) Bromodichloromethane	9.04	83	364274	2.06	ppbv	99
43) Methyl Methacrylate	9.28	69	180538	1.89	ppbv	99

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026173.D
 Acq On : 9 Oct 2015 11:40
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:25:28 PM

Quant Time: Oct 09 14:27:33 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 14:27:33 2015
 QLast Update : Fri Oct 09 14:20:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	889722	1.96	ppbv	99
45) t-1,3-Dichloropropene	10.66	75	248120	1.99	ppbv	97
46) cis-1,3-Dichloropropene	10.03	75	308006	1.99	ppbv	98
47) 1,1,2-Trichloroethane	10.89	97	227245	1.99	ppbv	99
48) Dibromochloromethane	11.81	129	329959	2.13	ppbv	100
49) Bromoform	14.83	173	247386	2.16	ppbv	99
50) 4-Methyl-2-Pentanone	10.11	43	400093	1.83	ppbv	99
51) 2-Hexanone	11.65	43	363103	1.82	ppbv #	99
52) Tetrachloroethene	12.80	164	228310	1.87	ppbv	94
53) Toluene	11.25	91	677087	2.00	ppbv	99
54) 1,2-Dibromoethane	12.15	107	342876	2.01	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.80	131	258957	2.05	ppbv #	1
57) Chlorobenzene	13.83	112	583801	1.94	ppbv	97
58) Ethyl Benzene	14.43	91	957180	1.89	ppbv	97
59) m/p-Xylene	14.72	91	1531151m	3.85	ppbv	
60) o-Xylene	15.50	91	805056	1.95	ppbv	99
61) Styrene	15.32	104	327368	1.85	ppbv	99
62) Isopropylbenzene	16.56	105	1048271	1.93	ppbv	98
63) 1,1,2,2-Tetrachloroethane	15.49	83	550765	1.74	ppbv	99
64) n-propylbenzene	17.53	120	282390	1.95	ppbv	95
65) tert-Butylbenzene	18.82	119	944505	1.99	ppbv	99
66) Benzyl Chloride	19.11	91	262388	2.03	ppbv	97
67) sec-Butylbenzene	19.42	105	1322404	1.97	ppbv	99
69) p-Isopropyltoluene	19.80	119	1068314	1.97	ppbv	99
70) n-Butylbenzene	20.77	91	1018573	1.88	ppbv	99
71) 2-Chlorotoluene	17.44	91	780227	1.89	ppbv	99
72) 4-Ethyltoluene	17.83	105	868132	1.93	ppbv	99
73) 1,3,5-Trimethylbenzene	18.00	105	807703	1.93	ppbv	99
74) 1,2,4-Trimethylbenzene	18.84	105	850704	1.94	ppbv	99
75) 1,3-Dichlorobenzene	19.13	146	536680	1.97	ppbv	99
76) 1,4-Dichlorobenzene	19.28	146	534204	1.91	ppbv	99
77) 1,2-Dichlorobenzene	20.04	146	517782	1.90	ppbv	100
78) Hexachloro-1,3-Butadiene	24.68	225	207228	1.90	ppbv	99
79) Naphthalene	23.94	128	521753	1.53	ppbv	99
80) Naphthalene, 2-methyl-	26.06	142	126237	1.58	ppbv	98
81) 1,2,4-Trichlorobenzene	23.75	180	256470	1.56	ppbv	99

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

```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\  
Data File : VL026173.D  
Acq On    : 9 Oct 2015 11:40  
Operator  : SY/MD  
Sample    : VSTDICC002  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

MMdadoda
10/12/2015 1:25:28 PM

Quant Time: Oct 09 14:27:33 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct
QLast Update : Fri Oct 09 14:20:41 2015
Response via : Initial Calibration

