

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033116.D
 Acq On : 28 Jan 2019 16:59
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 1/29/2019 2:36:06 PM

Quant Time: Jan 29 06:09:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 29 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1100797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2817633	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3227685	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2682202	10.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	298371	1.456	ppbv	99
3) Chlorodifluoromethane	3.01	51	157454	1.264	ppbv	98
4) Chloromethane	3.17	50	89543	1.255	ppbv	96
5) Vinyl Chloride	3.29	62	88230	1.224	ppbv	93
6) Bromomethane	3.51	94	59083	1.207	ppbv	93
7) Chloroethane	3.60	64	33637	1.193	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	237674	1.347	ppbv	100
9) Propene	3.03	41	57893	1.244	ppbv	99
10) Heptane	8.24	43	173105	1.306	ppbv	100
11) Trichlorofluoromethane	4.00	101	254416	1.124	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	174759	1.221	ppbv	99
13) Ethanol	3.65	45	25620m	1.380	ppbv	
14) Bromoethene	3.78	108	73300	1.159	ppbv	100
15) Acetone	3.90	43	171856	1.128	ppbv	96
16) 1,3-Butadiene	3.36	39	63836	1.111	ppbv	98
17) tert-Butyl alcohol	4.37	59	37726m	1.169	ppbv	
18) 1,1-Dichloroethene	4.35	96	77398	1.174	ppbv	93
19) Isopropyl Alcohol	4.03	45	115425	1.100	ppbv #	96
20) Methylene Chloride	4.40	84	81607	1.285	ppbv	97
21) Allyl Chloride	4.47	41	110696	1.172	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	74996	1.147	ppbv	90
23) Vinyl Acetate	5.15	43	206903	1.067	ppbv #	97
24) 1,1-Dichloroethane	5.09	63	187117	1.137	ppbv	98
25) Ethyl Acetate	5.77	43	283573	1.101	ppbv	99
26) Hexane	5.78	57	140686	1.160	ppbv	96
27) Carbon Disulfide	4.62	76	172118	1.151	ppbv	96
28) Methyl tert-Butyl Ether	5.12	73	207317	1.095	ppbv	99
29) Chloroform	5.84	83	232403	1.125	ppbv	92
30) Cyclohexane	7.25	84	94271	1.043	ppbv	93
31) cis-1,2-Dichloroethene	5.63	61	119677	1.063	ppbv #	86
32) 1,1,1-Trichloroethane	6.61	97	318596	1.519	ppbv	99
34) 2-Butanone	5.33	43	171621	1.048	ppbv	99
35) Carbon Tetrachloride	7.13	117	251001	1.037	ppbv	98
36) Benzene	7.00	78	251882	1.091	ppbv	99
37) 1,2-Dichloroethane	6.41	62	216515	1.344	ppbv	99
38) Trichloroethene	7.96	130	122438	1.290	ppbv	95
39) 1,2-Dichloropropane	7.73	63	106866	1.233	ppbv	93
40) 1,4-Dioxane	7.98	88	42378m	1.288	ppbv	
41) Tetrahydrofuran	6.16	42	84355	1.012	ppbv	98
42) Bromodichloromethane	7.91	83	277732	1.255	ppbv	99
43) Methyl Methacrylate	8.14	69	106701m	1.232	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	512199	1.310	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	118769	1.102	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	145380	1.182	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	136924	1.352	ppbv	93
48) Dibromochloromethane	10.45	129	233680	1.306	ppbv	98
49) Bromoform	13.20	173	200949	1.285	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	276240	1.332	ppbv	96
51) 2-Hexanone	10.29	43	176137	1.173	ppbv #	95
52) Tetrachloroethene	11.37	164	104155	1.277	ppbv	95
53) Toluene	9.95	91	302147	1.222	ppbv	98
54) 1,2-Dibromoethane	10.75	107	188891	1.294	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	183890m	1.103	ppbv	
57) Chlorobenzene	12.29	112	295005	1.095	ppbv #	96
58) Ethyl Benzene	12.86	91	405778	0.996	ppbv	98
59) m/p-Xylene	13.14	91	798833m	2.119	ppbv	
60) o-Xylene	13.85	91	423351	1.147	ppbv	98
61) Styrene	13.69	104	244054	1.036	ppbv	98
62) Isopropylbenzene	14.82	105	600617	1.144	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	332513	1.213	ppbv	99
64) n-propylbenzene	15.72	120	140195	1.051	ppbv	91
65) tert-Butylbenzene	16.91	119	515593	1.108	ppbv	94
66) Benzyl Chloride	17.15	91	269938m	1.018	ppbv	
67) sec-Butylbenzene	17.45	105	731974	1.099	ppbv	99
69) p-Isopropyltoluene	17.81	119	591252	1.094	ppbv	98
70) n-Butylbenzene	18.72	91	578858	1.066	ppbv	97
71) 2-Chlorotoluene	15.61	91	362192	0.972	ppbv	100
72) 4-Ethyltoluene	16.00	105	406875	1.003	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	428011	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	476306	1.075	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	296321m	1.136	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	254685	1.072	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	258419	1.100	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	154132	0.854	ppbv	99
79) Naphthalene	22.41	128	232245m	0.622	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	26288	0.232	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	131034m	0.727	ppbv	

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

