

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033123.D
 Acq On : 28 Jan 2019 23:10
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL012819

Manual Integrations
 APPROVED

apatel
 1/29/2019 2:38:25 PM

Quant Time: Jan 28 23:56:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 23:42:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1244847	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3166772	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3145294	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2333154	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	2451821	8.319	ppbv 100
3) Chlorodifluoromethane	3.01	51	1368379	8.285	ppbv 98
4) Chloromethane	3.17	50	769389	8.575	ppbv 99
5) Vinyl Chloride	3.29	62	787470	7.690	ppbv 99
6) Bromomethane	3.51	94	518487	8.589	ppbv 97
7) Chloroethane	3.60	64	292150	8.360	ppbv 94
8) Dichlorotetrafluoroethane	3.22	85	1944675	8.246	ppbv 99
9) Propene	3.03	41	589274	9.161	ppbv 99
10) Heptane	8.25	43	1466731	9.398	ppbv 99
11) Trichlorofluoromethane	4.00	101	2049336	8.158	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1386240	7.953	ppbv 98
13) Ethanol	3.64	45	136426	5.911	ppbv 100
14) Bromoethene	3.79	108	628657	8.327	ppbv 99
15) Acetone	3.90	43	1305753	7.768	ppbv 99
16) 1,3-Butadiene	3.36	39	636835	9.064	ppbv 95
17) tert-Butyl alcohol	4.35	59	321337	8.610	ppbv 98
18) 1,1-Dichloroethene	4.35	96	649770	8.398	ppbv 95
19) Isopropyl Alcohol	4.02	45	924019	8.072	ppbv 100
20) Methylene Chloride	4.40	84	559481	7.330	ppbv 96
21) Allyl Chloride	4.47	41	1025679	8.758	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	647046	8.325	ppbv 99
23) Vinyl Acetate	5.15	43	2171276	9.135	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1634043	8.489	ppbv 99
25) Ethyl Acetate	5.76	43	2621333	8.766	ppbv 100
26) Hexane	5.78	57	1215819	8.477	ppbv 98
27) Carbon Disulfide	4.62	76	1634960	8.731	ppbv 97
28) Methyl tert-Butyl Ether	5.11	73	2035270	9.043	ppbv 100
29) Chloroform	5.84	83	2022639	8.559	ppbv 99
30) Cyclohexane	7.24	84	1045397	9.703	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	1244877	9.507	ppbv 95
32) 1,1,1-Trichloroethane	6.62	97	2029363	6.637	ppbv 100
34) 2-Butanone	5.32	43	1658858	9.231	ppbv 99
35) Carbon Tetrachloride	7.13	117	2221478	7.662	ppbv 99
36) Benzene	7.00	78	2456862	8.791	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1495413	8.121	ppbv 99
38) Trichloroethene	7.96	130	1016093	8.946	ppbv 94
39) 1,2-Dichloropropane	7.73	63	918177	9.330	ppbv 96
40) 1,4-Dioxane	7.95	88	319624	8.506	ppbv # 1
41) Tetrahydrofuran	6.14	42	944134	9.335	ppbv 100
42) Bromodichloromethane	7.91	83	2169659	8.884	ppbv 98
43) Methyl Methacrylate	8.13	69	981439	10.032	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4102786	9.297	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1354609	11.293	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1557789	10.864	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1029628	9.024	ppbv	95
48) Dibromochloromethane	10.45	129	1912204	9.497	ppbv	100
49) Bromoform	13.20	173	1622500	9.644	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2317183	9.660	ppbv	100
51) 2-Hexanone	10.27	43	1753428	10.487	ppbv	100
52) Tetrachloroethene	11.37	164	892406	9.602	ppbv	98
53) Toluene	9.94	91	2881846	10.315	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1594729	9.732	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1325483	8.538	ppbv	98
57) Chlorobenzene	12.30	112	2234143	8.882	ppbv	99
58) Ethyl Benzene	12.86	91	3905832	10.528	ppbv	99
59) m/p-Xylene	13.15	91	6648157m	19.349	ppbv	
60) o-Xylene	13.85	91	3251041	9.131	ppbv	99
61) Styrene	13.69	104	2427151	10.676	ppbv	99
62) Isopropylbenzene	14.83	105	4594862	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2222444	7.837	ppbv	99
64) n-propylbenzene	15.72	120	1086654	8.876	ppbv	97
65) tert-Butylbenzene	16.91	119	3678203	8.679	ppbv	100
66) Benzyl Chloride	17.16	91	2217072	9.717	ppbv	100
67) sec-Butylbenzene	17.46	105	5242429	8.617	ppbv	99
69) p-Isopropyltoluene	17.82	119	4287404	8.254	ppbv	99
70) n-Butylbenzene	18.72	91	4190275	8.882	ppbv	100
71) 2-Chlorotoluene	15.62	91	3128026	9.093	ppbv	99
72) 4-Ethyltoluene	16.00	105	3436222	9.172	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3221953	8.793	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3343748m	8.617	ppbv	
75) 1,3-Dichlorobenzene	17.17	146	1872465	7.989	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1862380	8.621	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1837033m	7.798	ppbv	
78) Hexachloro-1,3-Butadiene	23.55	225	1190942	8.630	ppbv	100
79) Naphthalene	22.41	128	2736862	11.464	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1010731	16.958	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1324158	10.884	ppbv	100

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

