

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033120.D
 Acq On : 28 Jan 2019 20:09
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

apatel
 1/29/2019 2:36:27 PM

Quant Time: Jan 28 21:59:19 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 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1186528	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3020843	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3202699	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2148177	8.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	3420526	15.491	ppbv	98
3) Chlorodifluoromethane	3.01	51	1914649	14.255	ppbv	99
4) Chloromethane	3.17	50	1091002	14.182	ppbv	96
5) Vinyl Chloride	3.29	62	1145975	14.750	ppbv	99
6) Bromomethane	3.51	94	765765	14.509	ppbv	100
7) Chloroethane	3.60	64	443001	14.581	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	2719100	14.296	ppbv	99
9) Propene	3.04	41	833466	16.611	ppbv	99
10) Heptane	8.25	43	2036361	14.255	ppbv	100
11) Trichlorofluoromethane	4.00	101	2984575	12.232	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	2050361	13.289	ppbv	99
13) Ethanol	3.65	45	232585	11.624	ppbv	99
14) Bromoethene	3.79	108	999959	14.674	ppbv	99
15) Acetone	3.90	43	1977322	12.040	ppbv	99
16) 1,3-Butadiene	3.36	39	986235	15.925	ppbv	90
17) tert-Butyl alcohol	4.36	59	451272	12.971	ppbv	99
18) 1,1-Dichloroethene	4.35	96	940027	13.227	ppbv	100
19) Isopropyl Alcohol	4.02	45	1398586	12.370	ppbv	99
20) Methylene Chloride	4.41	84	812034	11.860	ppbv	98
21) Allyl Chloride	4.48	41	1524910	14.984	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	994835	14.122	ppbv	96
23) Vinyl Acetate	5.16	43	3163864	15.143	ppbv	99
24) 1,1-Dichloroethane	5.09	63	2370890	13.365	ppbv	100
25) Ethyl Acetate	5.77	43	3677742	13.248	ppbv	100
26) Hexane	5.78	57	1728587	13.224	ppbv	99
27) Carbon Disulfide	4.62	76	2491109	15.453	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2965997	14.537	ppbv	100
29) Chloroform	5.85	83	2832234	12.714	ppbv	99
30) Cyclohexane	7.25	84	1476436	15.149	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1757255	14.478	ppbv	90
32) 1,1,1-Trichloroethane	6.62	97	2843401	12.577	ppbv	99
34) 2-Butanone	5.33	43	2314462	13.186	ppbv	99
35) Carbon Tetrachloride	7.14	117	3089003	11.905	ppbv	99
36) Benzene	7.01	78	3453030	13.954	ppbv	99
37) 1,2-Dichloroethane	6.42	62	2085169	12.069	ppbv	99
38) Trichloroethene	7.96	130	1381902	13.575	ppbv	94
39) 1,2-Dichloropropane	7.74	63	1249718	13.444	ppbv	97
40) 1,4-Dioxane	7.95	88	478952	13.573	ppbv	87
41) Tetrahydrofuran	6.15	42	1342543	15.028	ppbv	99
42) Bromodichloromethane	7.92	83	2991171	12.603	ppbv	93
43) Methyl Methacrylate	8.14	69	1358981	14.636	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5567742	13.286	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1940339m	16.788	ppbv	
46) cis-1,3-Dichloropropene	8.84	75	2153848	16.327	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	1413418	13.014	ppbv	96
48) Dibromochloromethane	10.45	129	2605812	13.580	ppbv	100
49) Bromoform	13.21	173	2214404	13.208	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	3210955	14.437	ppbv	100
51) 2-Hexanone	10.27	43	2451642	15.235	ppbv	100
52) Tetrachloroethene	11.38	164	1216032	13.903	ppbv	98
53) Toluene	9.95	91	3954750	14.913	ppbv	99
54) 1,2-Dibromoethane	10.76	107	2198884	14.052	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1827072	11.041	ppbv #	71
57) Chlorobenzene	12.30	112	3042583	11.382	ppbv	99
58) Ethyl Benzene	12.87	91	5332480	13.187	ppbv	98
59) m/p-Xylene	13.15	91	9053911m	24.204	ppbv	
60) o-Xylene	13.86	91	4349129	11.876	ppbv	100
61) Styrene	13.69	104	3337884	14.285	ppbv	99
62) Isopropylbenzene	14.83	105	6248361	11.989	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2980874	10.958	ppbv	99
64) n-propylbenzene	15.73	120	1632200	12.328	ppbv	95
65) tert-Butylbenzene	16.91	119	5430507	11.764	ppbv	99
66) Benzyl Chloride	17.16	91	3378684	12.842	ppbv	100
67) sec-Butylbenzene	17.46	105	7668299m	11.608	ppbv	
69) p-Isopropyltoluene	17.82	119	6341963	11.828	ppbv	99
70) n-Butylbenzene	18.72	91	6266582	11.626	ppbv	100
71) 2-Chlorotoluene	15.62	91	4607541	12.466	ppbv	99
72) 4-Ethyltoluene	16.01	105	5108124	12.693	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	4853795	12.224	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	4898585	11.139	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	2790802	10.781	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2765762	11.729	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2695470	11.563	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1751121	9.780	ppbv	100
79) Naphthalene	22.41	128	4180982	11.287	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1487612	13.234	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1988363	11.111	ppbv	100

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

