

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034942.D
 Acq On : 6 May 2020 14:02
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:30:05 PM

Quant Time: May 06 14:46:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 12:36:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1215251	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2832873	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2847292	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2198413	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1673681	10.057	ppbv 97
3) Chlorodifluoromethane	2.95	51	1749770	12.889	ppbv 100
4) Chloromethane	3.10	50	1026678	13.381	ppbv 98
5) Vinyl Chloride	3.22	62	1003019	13.598	ppbv 100
6) Bromomethane	3.44	94	580300	13.515	ppbv 90
7) Chloroethane	3.52	64	358113	13.444	ppbv 97
8) Dichlorotetrafluoroethane	3.15	85	2034856	11.774	ppbv 99
9) Propene	2.97	41	818013	12.621	ppbv 98
10) Heptane	8.14	43	2200954	13.798	ppbv 98
11) Trichlorofluoromethane	3.92	101	2128906	12.025	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1491969	12.041	ppbv 100
13) Ethanol	3.57	45	199232	10.111	ppbv 100
14) Bromoethene	3.71	108	675587	12.625	ppbv 98
15) Acetone	3.82	43	1743758	11.071	ppbv 100
16) 1,3-Butadiene	3.29	39	922255	12.948	ppbv 98
17) tert-Butyl alcohol	4.27	59	1607935	10.596	ppbv 99
18) 1,1-Dichloroethene	4.27	96	694506	12.657	ppbv 93
19) Isopropyl Alcohol	3.94	45	1168538	11.748	ppbv 100
20) Methylene Chloride	4.32	84	606578	12.180	ppbv 95
21) Allyl Chloride	4.39	41	1226309	12.123	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	684564	12.297	ppbv 94
23) Vinyl Acetate	5.06	43	2823083	12.134	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1979462	12.691	ppbv 99
25) Ethyl Acetate	5.67	43	3528908	12.576	ppbv 99
26) Hexane	5.68	57	1590566	13.163	ppbv 98
27) Carbon Disulfide	4.53	76	1807767	13.184	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	2325509	11.567	ppbv 98
29) Chloroform	5.75	83	2408002	13.061	ppbv 97
30) Cyclohexane	7.14	84	1336099	13.252	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1643578	13.300	ppbv 97
32) 1,1,1-Trichloroethane	6.52	97	2301742	12.813	ppbv 100
34) 2-Butanone	5.23	43	2398915	12.743	ppbv 100
35) Carbon Tetrachloride	7.03	117	2356020	13.372	ppbv 98
36) Benzene	6.90	78	3173407	12.567	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1885766	13.245	ppbv 100
38) Trichloroethene	7.85	130	1176484	12.268	ppbv 98
39) 1,2-Dichloropropane	7.63	63	1283370	12.828	ppbv 97
40) 1,4-Dioxane	7.85	88	451971	11.962	ppbv 82
41) Tetrahydrofuran	6.04	42	1376303	13.511	ppbv 99
42) Bromodichloromethane	7.81	83	2581370	13.303	ppbv 96
43) Methyl Methacrylate	8.03	69	1488034	13.988	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	5354438	12.548	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1696538	13.574	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	1982692	13.350	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	1318097	12.838	ppbv	99
48) Dibromochloromethane	10.34	129	2164830	13.020	ppbv	100
49) Bromoform	13.09	173	1912958	12.903	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3595407	13.267	ppbv	100
51) 2-Hexanone	10.16	43	3004422	13.642	ppbv	100
52) Tetrachloroethene	11.26	164	1101398	11.026	ppbv	98
53) Toluene	9.83	91	3669329	12.584	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1977256	12.794	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1592171	12.448	ppbv	96
57) Chlorobenzene	12.19	112	2718468	12.202	ppbv	100
58) Ethyl Benzene	12.75	91	4838076	12.547	ppbv	96
59) m/p-Xylene	13.04	91	7904068m	24.468	ppbv	
60) o-Xylene	13.73	91	3909839	12.396	ppbv	99
61) Styrene	13.57	104	2919100	13.188	ppbv	100
62) Isopropylbenzene	14.71	105	5695863	11.943	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	2761336	12.896	ppbv	99
64) n-propylbenzene	15.61	120	1549604	12.484	ppbv	93
65) tert-Butylbenzene	16.80	119	4839467	11.608	ppbv	100
66) Benzyl Chloride	17.04	91	2117403	12.180	ppbv	99
67) sec-Butylbenzene	17.35	105	6922921	11.975	ppbv	99
69) p-Isopropyltoluene	17.70	119	5732462	11.826	ppbv	99
70) n-Butylbenzene	18.60	91	6007177	12.146	ppbv	99
71) 2-Chlorotoluene	15.50	91	4500547	12.461	ppbv	100
72) 4-Ethyltoluene	15.89	105	4619646	12.402	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	4281845	12.280	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	4275246	11.901	ppbv	95
75) 1,3-Dichlorobenzene	17.05	146	2516516	11.618	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	2558571	11.837	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	2418386m	11.518	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	1906902	10.873	ppbv	99
79) Naphthalene	22.27	128	4594821	16.401	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	2166014	29.585	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	2366540	13.296	ppbv	100

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

