

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034399.D
 Acq On : 20 Nov 2019 4:06
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:54:33 PM

Quant Time: Nov 20 06:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 20
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	981318	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1937534	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2100349	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1734518	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1851103	10.427	ppbv 99
3) Chlorodifluoromethane	2.96	51	1109710	9.063	ppbv 100
4) Chloromethane	3.11	50	665709	9.218	ppbv 99
5) Vinyl Chloride	3.23	62	608483	8.993	ppbv 92
6) Bromomethane	3.45	94	326061	9.577	ppbv 89
7) Chloroethane	3.54	64	231189	9.413	ppbv 96
8) Dichlorotetrafluoroethane	3.16	85	1421873	8.919	ppbv 99
9) Propene	2.98	41	496958	9.142	ppbv 99
10) Heptane	8.16	43	1323076	9.432	ppbv 99
11) Trichlorofluoromethane	3.94	101	1604992	9.084	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1066104	9.086	ppbv 100
13) Ethanol	3.59	45	116970	7.347	ppbv 94
14) Bromoethene	3.73	108	452318	9.481	ppbv 98
15) Acetone	3.83	43	1247578	8.878	ppbv 100
16) 1,3-Butadiene	3.31	39	578598	9.453	ppbv 100
17) tert-Butyl alcohol	4.29	59	1101613	9.326	ppbv 100
18) 1,1-Dichloroethene	4.28	96	482568	9.402	ppbv 95
19) Isopropyl Alcohol	3.96	45	920750	9.009	ppbv 99
20) Methylene Chloride	4.34	84	405958	8.147	ppbv 95
21) Allyl Chloride	4.41	41	828042	9.834	ppbv 97
22) trans-1,2-Dichloroethene	4.89	96	490780	9.486	ppbv 96
23) Vinyl Acetate	5.08	43	1798333	9.797	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1286850	9.126	ppbv 99
25) Ethyl Acetate	5.69	43	2275684	9.075	ppbv 100
26) Hexane	5.70	57	953127	8.846	ppbv 96
27) Carbon Disulfide	4.55	76	1221847	10.411	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1637199	9.164	ppbv 99
29) Chloroform	5.77	83	1594584	9.139	ppbv 97
30) Cyclohexane	7.16	84	774590m	9.509	ppbv
31) cis-1,2-Dichloroethene	5.56	61	1049381	9.425	ppbv 100
32) 1,1,1-Trichloroethane	6.53	97	1569186	9.592	ppbv 99
34) 2-Butanone	5.25	43	1531006	9.600	ppbv 99
35) Carbon Tetrachloride	7.05	117	1658102	9.953	ppbv 97
36) Benzene	6.92	78	1833321	9.466	ppbv 96
37) 1,2-Dichloroethane	6.33	62	1363707	9.478	ppbv 100
38) Trichloroethene	7.87	130	719259	9.049	ppbv 96
39) 1,2-Dichloropropane	7.65	63	775031	9.439	ppbv 90
40) 1,4-Dioxane	7.86	88	319921	9.815	ppbv # 95
41) Tetrahydrofuran	6.06	42	867100	9.693	ppbv 98
42) Bromodichloromethane	7.83	83	1749970	9.725	ppbv 99
43) Methyl Methacrylate	8.05	69	797997	9.934	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3344399	9.448	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1106220	10.737	ppbv	98
46) cis-1,3-Dichloropropene	8.74	75	1217043	10.517	ppbv	99
47) 1,1,2-Trichloroethane	9.52	97	778999	9.385	ppbv	98
48) Dibromochloromethane	10.36	129	1426140	10.007	ppbv	100
49) Bromoform	13.10	173	1244895	9.785	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	2270178	9.838	ppbv	99
51) 2-Hexanone	10.18	43	1902307	9.842	ppbv #	98
52) Tetrachloroethene	11.28	164	697541	8.324	ppbv	95
53) Toluene	9.85	91	2140576	9.730	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1191589	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	933619	9.087	ppbv	94
57) Chlorobenzene	12.20	112	1626384	8.566	ppbv	99
58) Ethyl Benzene	12.76	91	2931819	8.995	ppbv	97
59) m/p-Xylene	13.05	91	4828652m	17.138	ppbv	
60) o-Xylene	13.75	91	2423402	8.699	ppbv	99
61) Styrene	13.59	104	1803867	8.979	ppbv	99
62) Isopropylbenzene	14.73	105	3156555	8.568	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1641782	7.840	ppbv	100
64) n-propylbenzene	15.63	120	802465	8.387	ppbv	93
65) tert-Butylbenzene	16.82	119	2757548	8.332	ppbv	100
66) Benzyl Chloride	17.06	91	1274882	10.014	ppbv	100
67) sec-Butylbenzene	17.36	105	3858522	8.335	ppbv	99
69) p-Isopropyltoluene	17.72	119	3206235	8.345	ppbv	99
70) n-Butylbenzene	18.62	91	3489163	8.440	ppbv	99
71) 2-Chlorotoluene	15.52	91	2462874	8.384	ppbv	100
72) 4-Ethyltoluene	15.90	105	2773320	8.616	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2629865	8.347	ppbv	95
74) 1,2,4-Trimethylbenzene	16.83	105	2742404	8.194	ppbv #	91
75) 1,3-Dichlorobenzene	17.07	146	1544949	8.031	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1542212	8.256	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1498737	8.066	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1565964m	9.809	ppbv	
79) Naphthalene	22.29	128	2900500	9.997	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1481455	11.308	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1714486m	9.619	ppbv	

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

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