

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
 Data File : VL034296.D
 Acq On : 15 Oct 2019 00:37
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:43 AM

Quant Time: Oct 15 07:45:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	997916	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1718769	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1872732	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1603285	9.85	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1726464	11.712	ppbv	97
3) Chlorodifluoromethane	2.97	51	1119608	9.569	ppbv	99
4) Chloromethane	3.12	50	650497	9.461	ppbv	99
5) Vinyl Chloride	3.24	62	587957	9.357	ppbv	97
6) Bromomethane	3.46	94	294487	10.045	ppbv	97
7) Chloroethane	3.55	64	221857	10.101	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	1286489	9.889	ppbv	99
9) Propene	2.99	41	510993	8.852	ppbv	98
10) Heptane	8.17	43	1369336	9.102	ppbv	99
11) Trichlorofluoromethane	3.94	101	1416045	10.554	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	928557	10.575	ppbv	100
13) Ethanol	3.60	45	111802	7.998	ppbv	96
14) Bromoethene	3.73	108	377695	10.521	ppbv	99
15) Acetone	3.84	43	1193650	8.925	ppbv	97
16) 1,3-Butadiene	3.31	39	586473	10.048	ppbv	99
17) tert-Butyl alcohol	4.30	59	835751	9.862	ppbv	100
18) 1,1-Dichloroethene	4.29	96	412551	10.772	ppbv	97
19) Isopropyl Alcohol	3.97	45	755573	9.187	ppbv	99
20) Methylene Chloride	4.35	84	382873	9.929	ppbv	97
21) Allyl Chloride	4.41	41	802647	10.625	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	424837	11.087	ppbv	98
23) Vinyl Acetate	5.09	43	1845981	9.366	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1259194	9.488	ppbv	100
25) Ethyl Acetate	5.70	43	2330407	9.214	ppbv	99
26) Hexane	5.71	57	957569	9.102	ppbv	97
27) Carbon Disulfide	4.56	76	1113326	11.474	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1478713	9.464	ppbv	98
29) Chloroform	5.78	83	1458686	9.703	ppbv	99
30) Cyclohexane	7.17	84	715412	9.419	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1015535	9.469	ppbv	97
32) 1,1,1-Trichloroethane	6.55	97	1421944	9.807	ppbv	99
34) 2-Butanone	5.26	43	1564253	8.913	ppbv	98
35) Carbon Tetrachloride	7.06	117	1453052	10.176	ppbv	98
36) Benzene	6.93	78	1729068	9.109	ppbv	99
37) 1,2-Dichloroethane	6.34	62	1338856	9.916	ppbv	98
38) Trichloroethene	7.89	130	604142	8.907	ppbv	96
39) 1,2-Dichloropropane	7.66	63	748538	8.776	ppbv	98
40) 1,4-Dioxane	7.87	88	252678	9.155	ppbv	# 90
41) Tetrahydrofuran	6.08	42	890058	9.005	ppbv	99
42) Bromodichloromethane	7.84	83	1619274	9.993	ppbv	99
43) Methyl Methacrylate	8.06	69	751230	9.580	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3281748	8.980	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1016106	10.959	ppbv	97
46) cis-1,3-Dichloropropene	8.76	75	1131054	10.141	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	702275	9.170	ppbv	96
48) Dibromochloromethane	10.37	129	1233602	10.162	ppbv	100
49) Bromoform	13.12	173	1011570	10.298	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2340451	9.164	ppbv	97
51) 2-Hexanone	10.19	43	1925966	8.985	ppbv #	99
52) Tetrachloroethene	11.29	164	533306	8.503	ppbv	96
53) Toluene	9.86	91	1923039	9.269	ppbv	98
54) 1,2-Dibromoethane	10.68	107	1072920	9.420	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.19	131	810592	9.706	ppbv	98
57) Chlorobenzene	12.22	112	1415714	8.683	ppbv	98
58) Ethyl Benzene	12.78	91	2680315	8.870	ppbv	98
59) m/p-Xylene	13.06	91	4473692m	17.875	ppbv	
60) o-Xylene	13.76	91	2244030	8.967	ppbv	99
61) Styrene	13.60	104	1598881	8.919	ppbv	100
62) Isopropylbenzene	14.74	105	2896069	8.939	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.75	83	1640795	7.995	ppbv	100
64) n-propylbenzene	15.64	120	728783	8.892	ppbv	90
65) tert-Butylbenzene	16.82	119	2466269	8.712	ppbv	99
66) Benzyl Chloride	17.07	91	1203860	12.021	ppbv	98
67) sec-Butylbenzene	17.37	105	3596496	8.885	ppbv	99
69) p-Isopropyltoluene	17.73	119	2894804	8.832	ppbv	99
70) n-Butylbenzene	18.63	91	3333634	8.735	ppbv	97
71) 2-Chlorotoluene	15.53	91	2318756	8.760	ppbv	99
72) 4-Ethyltoluene	15.91	105	2533606	8.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2426242	8.882	ppbv	100
74) 1,2,4-Trimethylbenzene	16.84	105	2475640	8.536	ppbv	97
75) 1,3-Dichlorobenzene	17.08	146	1323479	8.505	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1322659	8.299	ppbv	98
77) 1,2-Dichlorobenzene	17.90	146	1321006	8.387	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	976502	9.360	ppbv	99
79) Naphthalene	22.31	128	2102688	8.235	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	816928	6.880	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1153491	8.155	ppbv	98

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

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