

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034301.D
 Acq On : 16 Oct 2019 14:49
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:03:59 PM

Quant Time: Oct 17 05:12:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 05:12:55 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1161953	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2205808	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2220866	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1906583	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	124430m	0.725	ppbv
3) Chlorodifluoromethane	2.97	51	71471	0.525	ppbv 99
4) Chloromethane	3.12	50	41411	0.517	ppbv 100
5) Vinyl Chloride	3.24	62	38331	0.524	ppbv 89
6) Bromomethane	3.46	94	19710	0.577	ppbv # 79
7) Chloroethane	3.55	64	13718	0.536	ppbv # 86
8) Dichlorotetrafluoroethane	3.17	85	94238	0.622	ppbv 100
9) Propene	2.99	41	29743	0.442	ppbv 97
10) Heptane	8.17	43	70751	0.404	ppbv 97
11) Trichlorofluoromethane	3.94	101	103486	0.662	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	66413	0.650	ppbv 97
13) Ethanol	3.60	45	7986	0.491	ppbv # 58
14) Bromoethene	3.74	108	23117	0.553	ppbv # 92
15) Acetone	3.85	43	100940	0.648	ppbv 99
16) 1,3-Butadiene	3.31	39	32122	0.473	ppbv 89
17) tert-Butyl alcohol	4.32	59	64065m	0.649	ppbv
18) 1,1-Dichloroethene	4.29	96	27794	0.623	ppbv # 77
19) Isopropyl Alcohol	3.98	45	55404	0.579	ppbv # 98
20) Methylene Chloride	4.35	84	35305	0.786	ppbv 90
21) Allyl Chloride	4.41	41	43425	0.494	ppbv 90
22) trans-1,2-Dichloroethene	4.90	96	25820	0.579	ppbv 96
23) Vinyl Acetate	5.09	43	95034	0.414	ppbv # 97
24) 1,1-Dichloroethane	5.02	63	77755	0.503	ppbv 96
25) Ethyl Acetate	5.70	43	148534	0.504	ppbv 98
26) Hexane	5.71	57	57908	0.473	ppbv 86
27) Carbon Disulfide	4.56	76	52668	0.466	ppbv # 90
28) Methyl tert-Butyl Ether	5.06	73	85629m	0.471	ppbv
29) Chloroform	5.78	83	102681m	0.587	ppbv
30) Cyclohexane	7.16	84	43456m	0.491	ppbv
31) cis-1,2-Dichloroethene	5.57	61	56736m	0.454	ppbv
32) 1,1,1-Trichloroethane	6.54	97	86406	0.512	ppbv 96
34) 2-Butanone	5.27	43	91368	0.406	ppbv 96
35) Carbon Tetrachloride	7.05	117	89653m	0.489	ppbv
36) Benzene	6.93	78	102289	0.420	ppbv 97
37) 1,2-Dichloroethane	6.33	62	78770	0.455	ppbv 100
38) Trichloroethene	7.88	130	39983	0.459	ppbv # 76
39) 1,2-Dichloropropane	7.66	63	45481m	0.416	ppbv
40) 1,4-Dioxane	7.92	88	19014m	0.537	ppbv
41) Tetrahydrofuran	6.10	42	47814m	0.377	ppbv
42) Bromodichloromethane	7.83	83	94012	0.452	ppbv # 83
43) Methyl Methacrylate	8.07	69	37713m	0.375	ppbv

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.92	57	197169m	0.420	ppbv	
45) t-1,3-Dichloropropene	9.33	75	42055	0.353	ppbv #	86
46) cis-1,3-Dichloropropene	8.75	75	49150	0.343	ppbv #	83
47) 1,1,2-Trichloroethane	9.53	97	47712m	0.485	ppbv	
48) Dibromochloromethane	10.36	129	67593m	0.434	ppbv	
49) Bromoform	13.10	173	54544	0.433	ppbv	98
50) 4-Methyl-2-Pentanone	8.80	43	115830	0.353	ppbv	97
51) 2-Hexanone	10.21	43	91281m	0.332	ppbv	
52) Tetrachloroethene	11.28	164	40664m	0.505	ppbv	
53) Toluene	9.86	91	103688	0.389	ppbv	99
54) 1,2-Dibromoethane	10.67	107	68276	0.467	ppbv #	80
56) 1,1,1,2-Tetrachloroethane	12.19	131	53387m	0.539	ppbv	
57) Chlorobenzene	12.22	112	101584	0.525	ppbv #	88
58) Ethyl Benzene	12.78	91	147767	0.412	ppbv #	88
59) m/p-Xylene	13.07	91	281993m	0.950	ppbv	
60) o-Xylene	13.76	91	136768	0.461	ppbv	93
61) Styrene	13.60	104	82269	0.387	ppbv	98
62) Isopropylbenzene	14.74	105	179586	0.467	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.75	83	105922	0.435	ppbv	98
64) n-propylbenzene	15.64	120	43496m	0.447	ppbv	
65) tert-Butylbenzene	16.82	119	154864m	0.461	ppbv	
66) Benzyl Chloride	17.07	91	47377m	0.399	ppbv	
67) sec-Butylbenzene	17.38	105	221260	0.461	ppbv	95
69) p-Isopropyltoluene	17.74	119	175122m	0.451	ppbv	
70) n-Butylbenzene	18.63	91	190255	0.420	ppbv	96
71) 2-Chlorotoluene	15.53	91	132959	0.424	ppbv	100
72) 4-Ethyltoluene	15.91	105	141917m	0.423	ppbv	
73) 1,3,5-Trimethylbenzene	16.07	105	147260	0.455	ppbv	91
74) 1,2,4-Trimethylbenzene	16.83	105	151291	0.440	ppbv	89
75) 1,3-Dichlorobenzene	17.08	146	101114m	0.548	ppbv	
76) 1,4-Dichlorobenzene	17.22	146	93839m	0.497	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	97474m	0.522	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	80931m	0.654	ppbv	
79) Naphthalene	22.32	128	89916m	0.297	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	17055	0.121	ppbv	97
81) 1,2,4-Trichlorobenzene	22.04	180	66659m	0.397	ppbv	

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

