

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064282.D
 Acq On : 23 Oct 2020 11:09
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 1:38:46 PM

Quant Time: Oct 23 12:04:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 23 11:22:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	50084	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	276059	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	255756	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128260	30.73	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.43%
60) 4-Bromofluorobenzene	12.37	95	137073	30.10	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.33%
63) Toluene-d8	10.06	98	338674	29.32	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	340921	103.754	ug/l 98
3) Chloromethane	2.04	50	352820	104.580	ug/l 98
4) Vinyl Chloride	2.16	62	351242	106.005	ug/l 95
5) Bromomethane	2.52	94	214233	105.026	ug/l 91
6) Chloroethane	2.67	64	205471	106.524	ug/l 95
7) Trichlorofluoromethane	2.98	101	575178	107.920	ug/l 98
8) Diethyl Ether	3.37	74	190628	105.689	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	287502	102.109	ug/l 86
10) 1,1-Dichloroethene	3.70	96	279173	101.002	ug/l 96
11) Methyl Iodide	3.91	142	421018	106.607	ug/l 98
12) Methyl Acetate	4.28	43	326500	111.001	ug/l 94
13) Acrolein	3.57	56	138800	435.756	ug/l 92
14) Acrylonitrile	4.93	53	643191	544.319	ug/l 99
15) Acetone	3.78	58	192981	576.020	ug/l 97
16) Carbon Disulfide	4.01	76	821842	104.700	ug/l 95
17) Allyl chloride	4.28	41	533102	104.600	ug/l 94
18) Methylene Chloride	4.50	84	324581	102.227	ug/l 94
19) trans-1,2-Dichloroethene	4.99	96	314589	105.426	ug/l 93
20) Diisopropyl ether	5.90	45	1041580	109.406	ug/l 89
21) 1,1-Dichloroethane	5.80	63	619019	106.795	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	365694	105.075	ug/l # 89
23) tert-Butyl Alcohol	4.73	59	289362	524.485	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	966570	105.642	ug/l 96
25) Chloroform	7.33	83	650007	107.235	ug/l 97
26) Cyclohexane	7.61	56	472605	103.028	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	494115	111.510	ug/l 99
30) 2-Butanone	6.78	43	1076307	573.621	ug/l 100
31) 2,2-Dichloropropane	6.78	77	599050	105.837	ug/l 95
32) 1,1,1-Trichloroethane	7.53	97	615325	108.415	ug/l 96
33) Carbon Tetrachloride	7.73	117	568153	110.511	ug/l 95
34) Benzene	8.00	78	1346128	108.905	ug/l # 88
35) Methacrylonitrile	7.13	41	219192	109.823	ug/l 97
36) 1,2-Dichloroethane	8.08	62	570520	111.893	ug/l 98
37) Trichloroethene	8.80	130	370780	109.101	ug/l 98
38) Methylcyclohexane	9.05	83	448008	106.062	ug/l 96
39) 1,2-Dichloropropane	9.08	63	361240	108.855	ug/l 95
40) Dibromomethane	9.17	93	250659	107.876	ug/l 93

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

41) Bromodichloromethane	9.37	83	539962	108.537	ug/l	92
42) Vinyl Acetate	5.84	43	4851498	556.039	ug/l	100
43) Ethyl Acetate	6.88	43	466466m	117.008	ug/l	
44) Isopropyl Acetate	8.13	43	826554	108.151	ug/l	100
45) 1,4-Dioxane	9.16	88	101830	2255.747	ug/l	88
46) Methyl methacrylate	9.16	41	408143	111.262	ug/l	92
47) n-amyl Acetate	12.04	43	740511	109.197	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	618807	110.020	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	634773	109.615	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	330646	107.434	ug/l #	94
51) Ethyl methacrylate	10.40	69	529271	110.150	ug/l	86
52) 1,3-Dichloropropane	10.68	76	582507	109.475	ug/l	100
53) Dibromochloromethane	10.87	129	420799	110.148	ug/l	93
54) 1,2-Dibromoethane	10.98	107	359060	110.231	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	1368547	624.277	ug/l	99
56) Bromoform	12.10	173	303141	113.284	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	2278923	540.155	ug/l	99
59) 2-Hexanone	10.72	43	1683389	537.141	ug/l	99
61) Tetrachloroethene	10.60	164	354645	105.788	ug/l	97
62) Toluene	10.13	91	1501485	106.249	ug/l	100
64) Chlorobenzene	11.41	112	941502	107.194	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	368786	106.529	ug/l	99
66) Ethyl Benzene	11.48	91	1728705	106.729	ug/l	99
67) m/p-Xylenes	11.59	106	1298117	215.131	ug/l	98
68) o-Xylene	11.92	106	623913	106.597	ug/l	94
69) Styrene	11.94	104	1067270	108.131	ug/l	98
70) Isopropylbenzene	12.22	105	1662585	107.772	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	445653	105.168	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	436937m	97.874	ug/l	
73) Bromobenzene	12.50	156	406186	109.602	ug/l	97
74) n-propylbenzene	12.57	91	1923261	108.860	ug/l	99
75) 2-Chlorotoluene	12.65	91	1179793	108.188	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	1414844	107.598	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	187155	107.896	ug/l	93
78) 4-Chlorotoluene	12.75	91	1244719	108.691	ug/l	99
79) tert-butylbenzene	12.97	119	1154304	107.245	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	1434060	107.978	ug/l	100
81) sec-Butylbenzene	13.14	105	1493196	107.411	ug/l	98
82) p-Isopropyltoluene	13.26	119	1379840	106.966	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	724799	108.318	ug/l	99
84) 1,4-Dichlorobenzene	13.33	146	735651	110.497	ug/l	99
85) n-Butylbenzene	13.59	91	1215235	106.442	ug/l	97
86) Hexachloroethane	13.85	117	238090	107.836	ug/l	95
87) 1,2-Dichlorobenzene	13.63	146	709125	108.632	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	113162	104.369	ug/l	95
89) 1,2,4-Trichlorobenzene	14.88	180	408101	106.015	ug/l	92
90) Hexachlorobutadiene	14.98	225	211949	106.376	ug/l	99
91) Naphthalene	15.10	128	1218716	104.277	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	389949	105.615	ug/l	98

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

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