

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033372.D
 Acq On : 12 Dec 2022 14:18
 Operator : JC/MD
 Sample : VX1212WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1212WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 13 07:31:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.897	128	12717	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90265	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	99498	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34555	30.939	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.133%		
60) 4-Bromofluorobenzene	11.079	95	55299	30.008	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.033%		
63) Toluene-d8	8.647	98	98140	29.651	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 98.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	18692	20.126	ug/l	95
3) Chloromethane	1.294	50	19594	20.907	ug/l	94
4) Vinyl Chloride	1.374	62	22670	20.160	ug/l	100
5) Bromomethane	1.617	94	16718	20.330	ug/l	95
6) Chloroethane	1.691	64	16131	19.403	ug/l	93
7) Trichlorofluoromethane	1.892	101	45154	19.697	ug/l	97
8) Diethyl Ether	2.130	74	10888	15.208	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	24591	21.126	ug/l	97
10) 1,1-Dichloroethene	2.325	96	23790	21.708	ug/l	99
11) Methyl Iodide	2.453	142	24318	19.537	ug/l	96
12) Methyl Acetate	2.709	43	32011	20.713	ug/l	100
13) Acrolein	2.239	56	21032	86.024	ug/l	96
14) Acrylonitrile	3.068	53	57020	101.505	ug/l	98
15) Acetone	2.392	58	17860	92.495	ug/l	98
16) Carbon Disulfide	2.514	76	58121	19.686	ug/l	99
17) Allyl chloride	2.666	41	35380	19.668	ug/l	97
18) Methylene Chloride	2.788	84	25497	20.046	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	24573	19.247	ug/l	95
20) Diisopropyl ether	3.757	45	75705	19.999	ug/l	99
21) 1,1-Dichloroethane	3.605	63	44275	19.829	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	29575	19.956	ug/l	98
23) tert-Butyl Alcohol	3.014	59	25036m	104.441	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	79643	20.084	ug/l	98
25) Chloroform	5.092	83	50901	20.034	ug/l	92
26) Cyclohexane	5.470	56	38406	19.666	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	35826	19.638	ug/l	99
30) 2-Butanone	4.562	43	80898	94.861	ug/l	98
31) 2,2-Dichloropropane	4.477	77	36428	19.000	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	45090	19.146	ug/l	98
33) Carbon Tetrachloride	5.678	117	41084	19.078	ug/l	95
34) Benzene	6.037	78	102502	19.606	ug/l	99
35) Methacrylonitrile	4.916	41	17472	19.992	ug/l	99
36) 1,2-Dichloroethane	6.086	62	41189	20.496	ug/l	99
37) Trichloroethene	7.129	130	28514	19.208	ug/l	94
38) Methylcyclohexane	7.379	83	41806	19.448	ug/l	99
39) 1,2-Dichloropropane	7.433	63	25793	19.786	ug/l	99
40) Dibromomethane	7.586	93	19650	19.700	ug/l	98
41) Bromodichloromethane	7.824	83	39053	19.106	ug/l	99
42) Vinyl Acetate	3.721	43	294521	99.751	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	30636	19.979	ug/l	99
44) Isopropyl Acetate	6.342	43	51029	19.604	ug/l	99
45) 1,4-Dioxane	7.708	88	12465	408.842	ug/l #	64
46) Methyl methacrylate	7.690	41	26232	20.231	ug/l	99
47) n-amyl Acetate	10.841	43	42776	19.582	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	38367	18.713	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	42216	19.184	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	28016	20.311	ug/l	97
51) Ethyl methacrylate	9.116	69	39028	19.802	ug/l	98
52) 1,3-Dichloropropane	9.311	76	44387	19.706	ug/l	98
53) Dibromochloromethane	9.518	129	30735	18.541	ug/l	96
54) 1,2-Dibromoethane	9.610	107	30036	19.893	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	85257	92.134	ug/l	100
56) Bromoform	10.799	173	22310	18.645	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	163029	101.325	ug/l	99
59) 2-Hexanone	9.427	43	121576	98.814	ug/l	100
61) Tetrachloroethene	9.275	164	26048	19.550	ug/l	98
62) Toluene	8.720	91	117691	19.487	ug/l	99
64) Chlorobenzene	10.079	112	75429	19.743	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	28662	18.997	ug/l	99
66) Ethyl Benzene	10.195	91	133196	19.573	ug/l	97
67) m/p-Xylenes	10.299	106	103862	39.045	ug/l	98
68) o-Xylene	10.640	106	50277	19.398	ug/l	99
69) Styrene	10.652	104	84351	19.591	ug/l	98
70) Isopropylbenzene	10.963	105	135710	19.732	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	40781	20.049	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	36205m	19.988	ug/l	
73) Bromobenzene	11.195	156	33798	19.862	ug/l	98
74) n-propylbenzene	11.305	91	154433	19.595	ug/l	99
75) 2-Chlorotoluene	11.366	91	93426	19.720	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	114879	19.868	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	10877	18.060	ug/l	95
78) 4-Chlorotoluene	11.451	91	107564	19.813	ug/l	99
79) tert-butylbenzene	11.713	119	113386	19.782	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	113177	19.913	ug/l	99
81) sec-Butylbenzene	11.890	105	136195	19.770	ug/l	99
82) p-Isopropyltoluene	12.006	119	114894	19.557	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	62501	19.955	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	63044	19.998	ug/l	98
85) n-Butylbenzene	12.335	91	96220	19.621	ug/l	99
86) Hexachloroethane	12.536	117	19137	18.353	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	60501	19.604	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8396	18.946	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	38770	20.336	ug/l	97
90) Hexachlorobutadiene	13.725	225	16615	20.539	ug/l	100
91) Naphthalene	13.774	128	123680	20.045	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	37883	19.842	ug/l	99

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

