

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
 Data File : VX039096.D
 Acq On : 08 Dec 2023 11:10
 Operator : JC/MD
 Sample : VX1208WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1208WBSD01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/11/2023
 Supervised By : Mahesh Dadoda 12/11/2023

Quant Time: Dec 08 23:45:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	10323m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	82274	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103220	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44224	31.314	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.367%			
60) 4-Bromofluorobenzene	11.079	95	68492	30.380	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.267%			
63) Toluene-d8	8.647	98	122615	30.046	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30254	19.581	ug/l	100
3) Chloromethane	1.294	50	34613	19.565	ug/l	94
4) Vinyl Chloride	1.374	62	34400	19.260	ug/l	99
5) Bromomethane	1.611	94	24491	22.419	ug/l	99
6) Chloroethane	1.691	64	20709	19.911	ug/l	98
7) Trichlorofluoromethane	1.892	101	48712	19.761	ug/l	95
8) Diethyl Ether	2.130	74	19456	20.561	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	31342	22.500	ug/l	98
10) 1,1-Dichloroethene	2.319	96	29595	21.077	ug/l	96
11) Methyl Iodide	2.453	142	29403	19.109	ug/l	99
12) Methyl Acetate	2.696	43	104306	23.818	ug/l	99
13) Acrolein	2.233	56	41271	107.575	ug/l	100
14) Acrylonitrile	3.056	53	119241	111.324	ug/l	99
15) Acetone	2.373	58	40879	104.994	ug/l	97
16) Carbon Disulfide	2.514	76	82589	19.421	ug/l	98
17) Allyl chloride	2.666	41	61349	22.009	ug/l	96
18) Methylene Chloride	2.788	84	36588	21.982	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	32878	20.703	ug/l	97
20) Diisopropyl ether	3.757	45	121168	22.842	ug/l	93
21) 1,1-Dichloroethane	3.611	63	63838	21.645	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	38901	21.136	ug/l	97
23) tert-Butyl Alcohol	2.946	59	54297	91.568	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	114844	22.202	ug/l	100
25) Chloroform	5.086	83	63324	21.392	ug/l	93
26) Cyclohexane	5.470	56	57267	21.453	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	46959	20.361	ug/l	98
30) 2-Butanone	4.544	43	184656	106.340	ug/l	100
31) 2,2-Dichloropropane	4.477	77	54547	20.685	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	53511	20.074	ug/l	98
33) Carbon Tetrachloride	5.672	117	43279	19.274	ug/l	99
34) Benzene	6.037	78	142230	21.170	ug/l	98
35) Methacrylonitrile	4.910	41	34657	22.532	ug/l	97
36) 1,2-Dichloroethane	6.080	62	52212	21.179	ug/l #	93
37) Trichloroethene	7.123	130	34671	20.332	ug/l	96
38) Methylcyclohexane	7.379	83	59238	20.614	ug/l	97
39) 1,2-Dichloropropane	7.427	63	39385	22.227	ug/l	98
40) Dibromomethane	7.580	93	26384	21.075	ug/l	97
41) Bromodichloromethane	7.818	83	50554	21.019	ug/l	98
42) Vinyl Acetate	3.715	43	454914	109.991	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	65221	21.832	ug/l	100
44) Isopropyl Acetate	6.330	43	104426	22.174	ug/l	99
45) 1,4-Dioxane	7.653	88	15215	316.474	ug/l	93
46) Methyl methacrylate	7.690	41	59016	21.918	ug/l	96
47) n-amyl Acetate	10.841	43	85171	21.367	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	58491	20.973	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	62851	21.846	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	37454	22.023	ug/l	99
51) Ethyl methacrylate	9.116	69	47541	22.332	ug/l	92
52) 1,3-Dichloropropane	9.305	76	64540	22.132	ug/l	100
53) Dibromochloromethane	9.518	129	37212	20.374	ug/l	94
54) 1,2-Dibromoethane	9.610	107	39814	21.348	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	150451	111.497	ug/l	99
56) Bromoform	10.799	173	26160	19.845	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	350773	112.064	ug/l	99
59) 2-Hexanone	9.427	43	280506	109.175	ug/l	99
61) Tetrachloroethene	9.268	164	26982	20.105	ug/l	95
62) Toluene	8.714	91	153652	20.967	ug/l	100
64) Chlorobenzene	10.079	112	92302	20.706	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	33248	20.710	ug/l	98
66) Ethyl Benzene	10.195	91	175057	20.978	ug/l	99
67) m/p-Xylenes	10.299	106	127327	41.293	ug/l	100
68) o-Xylene	10.640	106	62694	20.990	ug/l	99
69) Styrene	10.652	104	90831	20.548	ug/l	100
70) Isopropylbenzene	10.963	105	165577	20.719	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	64758	21.706	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	56487m	22.376	ug/l	
73) Bromobenzene	11.195	156	36717	20.180	ug/l	95
74) n-propylbenzene	11.305	91	205773	21.016	ug/l	99
75) 2-Chlorotoluene	11.360	91	119361	20.779	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	142318	20.672	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19982	19.976	ug/l	97
78) 4-Chlorotoluene	11.451	91	139785	20.697	ug/l	98
79) tert-butylbenzene	11.713	119	135476	20.694	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	142687	20.708	ug/l	99
81) sec-Butylbenzene	11.890	105	170652	20.620	ug/l	99
82) p-Isopropyltoluene	12.006	119	143510	20.460	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	71285	20.472	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	72851	20.391	ug/l	100
85) n-Butylbenzene	12.329	91	142914	20.632	ug/l	99
86) Hexachloroethane	12.536	117	25815	19.424	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	69747	20.831	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15390	20.171	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	45399	20.451	ug/l	98
90) Hexachlorobutadiene	13.725	225	16430	20.728	ug/l	98
91) Naphthalene	13.774	128	167455	20.454	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	44837	20.852	ug/l	97

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

