Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\

Quantitation Report (Not Reviewed)

Data File : VU031986.D
Acq On : 14 May 2019 11:55
Operator : JC/SP
Sample : VSTD20054
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Quant Time: May 15 01:49:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 01:44:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1115659	50.00	ug/L		0.00
28) Chlorobenzene-d5	9.09	117	1151006	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	566075	50.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	1.40	65	1821315	194.66	ug/L		0.00
7) Chloroethane-d5	1.65	69	1457552	198.61	ug/L		-0.02
11) 1,1-Dichloroethene-d2	2.26	63	3278644	179.44	ug/L		0.00
21) 2-Butanone-d5	4.17	46	2854932	353.72	ug/L		0.00
24) Chloroform-d	4.64	84	3121949	185.33	ug/L		0.00
26) 1,2-Dichloroethane-d4	5.30	65	1938501	177.81	ug/L		0.00
32) Benzene-d6	5.33	84	6477841	185.41	ug/L		0.00
36) 1,2-Dichloropropane-d6	6.32	67	2143589	177.13	ug/L		0.00
41) Toluene-d8	7.56	98	6050755	198.63	ug/L		0.00
43) trans-1,3-Dichloropropene-	7.84	79	1052765	202.56	ug/L		0.00
47) 2-Hexanone-d5	8.31	63	2161917	415.59	ug/L		0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	3331461	201.50	ug/L		0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	2288237	192.03	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.20	85	1812537	152.740	ug/L		99
3) Chloromethane	1.32	50	2007029	141.501	ug/L		100
5) Vinyl chloride	1.40	62	2171706	161.033	ug/L		99
6) Bromomethane	1.60	94	1084580	151.900	ug/L		97
8) Chloroethane	1.68	64	1243466	167.116	ug/L		100
9) Trichlorofluoromethane	1.87	101	2407399	157.140	ug/L		99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	1464566	166.263	ug/L		99
12) 1,1-Dichloroethene	2.27	96	1499423	174.321	ug/L		93
13) Acetone	2.32	43	2246185	248.583	ug/L		98
14) Carbon disulfide	2.47	76	4858359	171.053	ug/L		99
15) Methyl Acetate	2.61	43	1931510	141.397	ug/L	#	100
16) Methylene chloride	2.69	84	1794307	175.828	ug/L		99
17) trans-1,2-Dichloroethene	2.97	96	1608432	178.882	ug/L		98
18) Methyl tert-butyl Ether	2.99	73	5190332	182.862	ug/L		99
19) 1,1-Dichloroethane	3.44	63	3088896	166.309	ug/L		100
20) cis-1,2-Dichloroethene	4.22	96	1818719	188.141	ug/L		100
22) 2-Butanone	4.25	43	3165550	315.011	ug/L		98
23) Bromochloromethane	4.54	128	845728	179.215	ug/L		98
25) Chloroform	4.67	83	3022597	169.342	ug/L		97
27) 1,2-Dichloroethane	5.40	62	2382081	165.060	ug/L		99
29) Cyclohexane	4.99	56	2940343	168.277	ug/L		99
30) 1,1,1-Trichloroethane	4.91	97	2445782	157.321	ug/L		99
31) Carbon tetrachloride	5.13	117	2065493	156.075	ug/L		98
33) Benzene	5.38	78	7012379	169.426	ug/L		100
34) Trichloroethene	6.18	95	1763022	175.816	ug/L		100
35) Methylcyclohexane	6.41	83	2929840	193.095	ug/L		99
37) 1,2-Dichloropropane	6.43	63	1885718	162.123	ug/L		100
38) Bromodichloromethane	6.75	83	2351876	167.059	ug/L		100
39) cis-1,3-Dichloropropene	7.26	75	3055730	194.769	ug/L		100
40) 4-Methyl-2-pentanone	7.46	43	5882367	334.184	ug/L		99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\

Quantitation Report (Not Reviewed)

Data File : VU031986.D
Acq On : 14 May 2019 11:55
Operator : JC/SP
Sample : VSTD20054
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Quant Time: May 15 01:49:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 01:44:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	7655784	184.442	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	2686011	191.048	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	1756960	180.971	ug/L	99
46) Tetrachloroethene	8.22	164	1244876	179.903	ug/L	98
48) 2-Hexanone	8.36	43	4792519	338.207	ug/L	100
49) Dibromochloromethane	8.47	129	1856879	184.875	ug/L	100
50) 1,2-Dibromoethane	8.58	107	1897018	184.025	ug/L	100
51) Chlorobenzene	9.12	112	4710230	190.495	ug/L	100
52) Ethylbenzene	9.24	91	8579798	198.572	ug/L	100
53) m,p-Xylene	9.37	106	3191543	207.988	ug/L	100
54) o-xylene	9.77	106	3185718	211.196	ug/L	98
55) Styrene	9.79	104	5656697	220.152	ug/L	99
56) Isopropylbenzene	10.16	105	8291745	210.597	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	3304649	190.619	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	2570102	183.536	ug/L	100
61) Bromoform	9.95	173	1432982	174.488	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	3623806	193.812	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	3644303	187.587	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	3668711	184.664	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	720837	162.357	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	2631988	188.302	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	2305761	209.134	ug/L	99
69) Naphthalene	13.74	128	8285224	219.485	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	2340443	186.649	ug/L	99

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

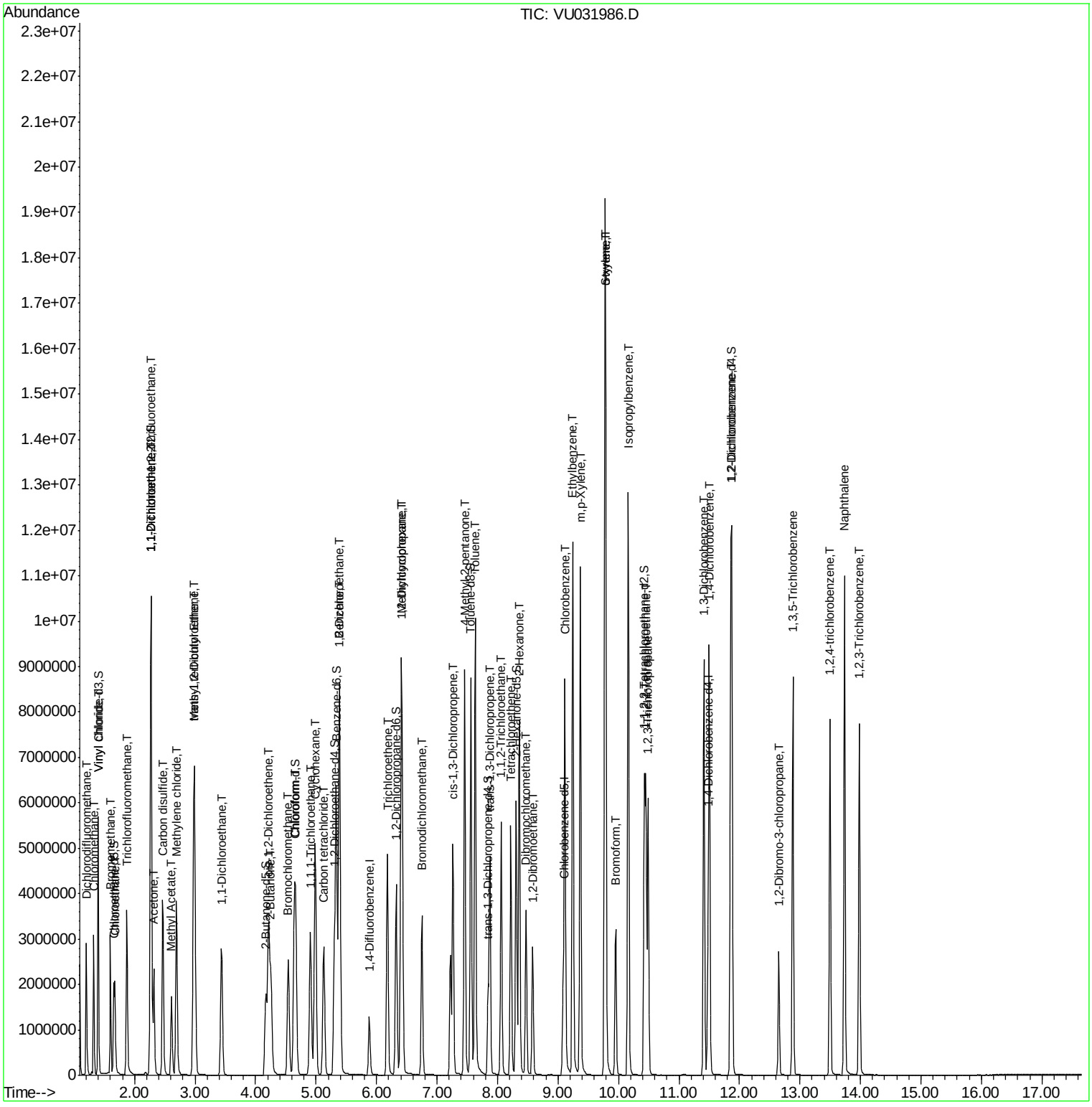
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\

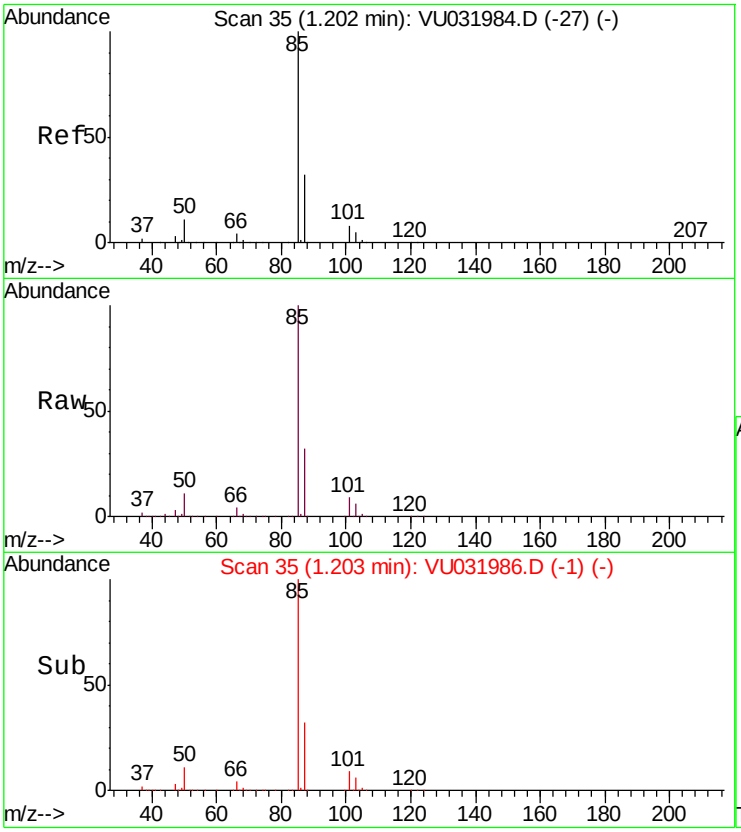
Quantitation Report (Not Reviewed)

Data File : VU031986.D
Acq On : 14 May 2019 11:55
Operator : JC/SP
Sample : VSTD20054
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Quant Time: May 15 01:49:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 01:44:17 2019
Response via : Initial Calibration



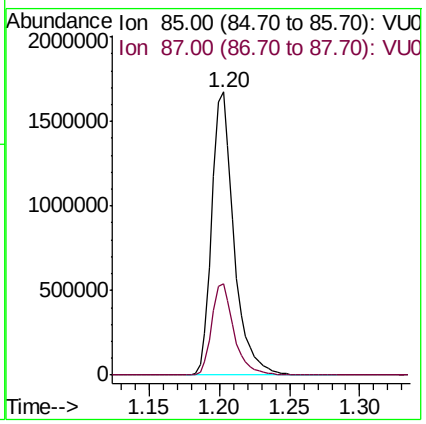


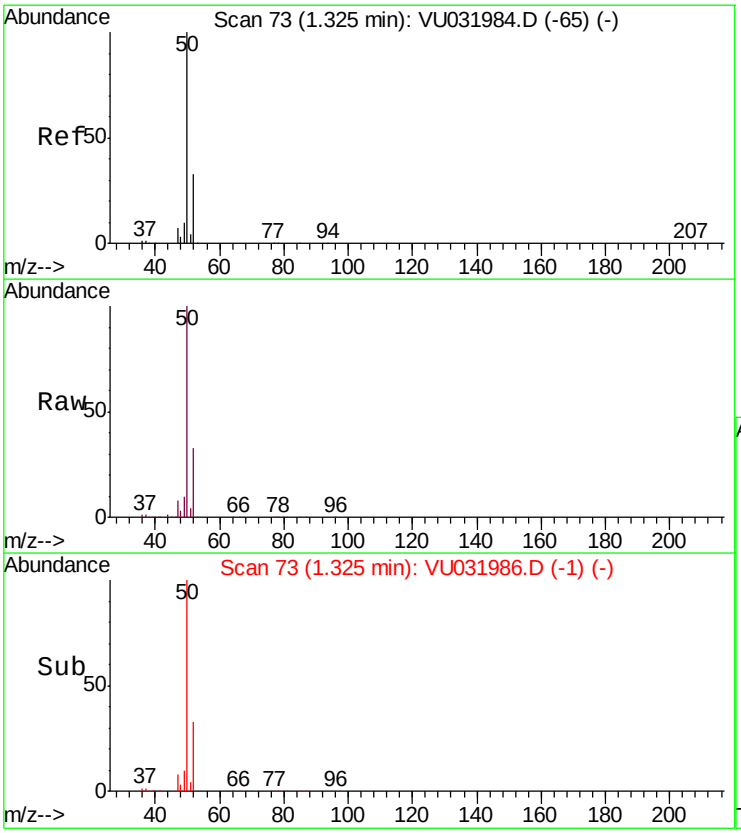
#2
Dichlorodifluoromethane
Concen: 152.740 ug/L
RT: 1.20 min Scan# 35
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Tgt Ion: 85 Resp: 1812537

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.0

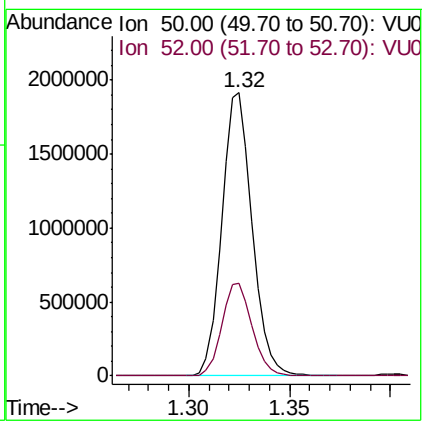


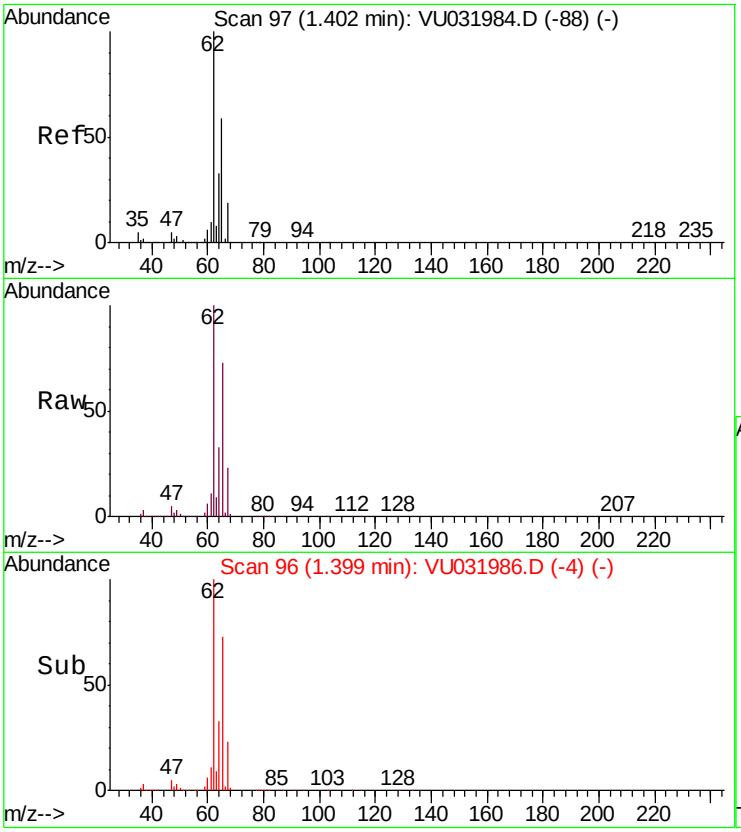


#3
Chloromethane
Concen: 141.501 ug/L
RT: 1.32 min Scan# 73
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 50 Resp: 2007029

Ion	Ratio	Lower	Upper
50	100		
52	32.6	23.0	42.6



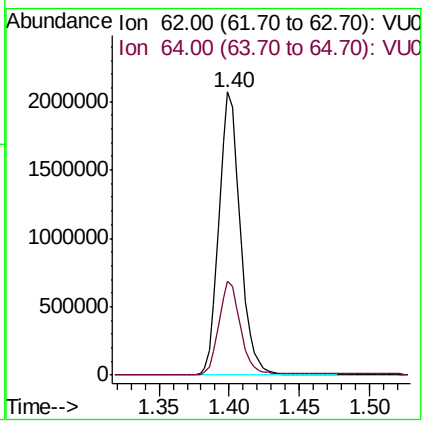


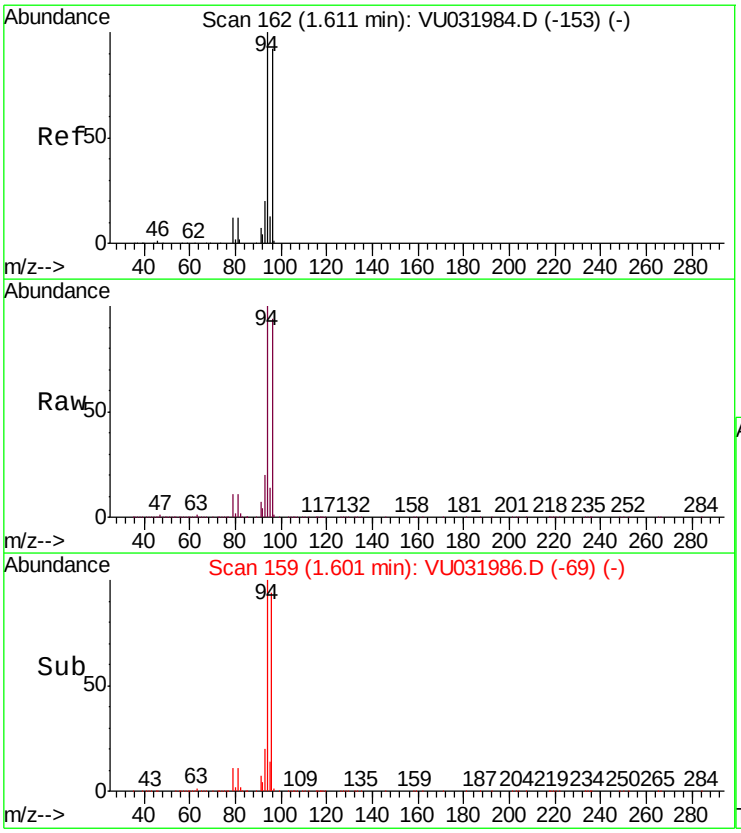
#5
Vinyl chloride
Concen: 161.033 ug/L
RT: 1.40 min Scan# 96
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Tgt Ion: 62 Resp: 2171706

Ion	Ratio	Lower	Upper
62	100		
64	33.3	23.6	43.8

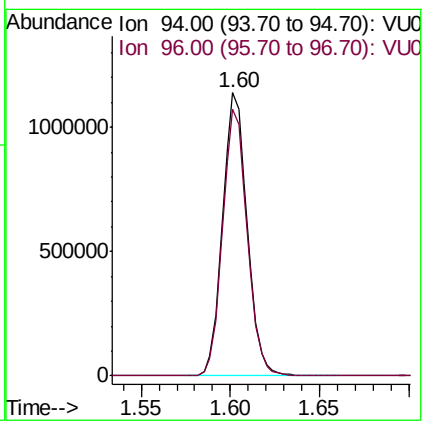


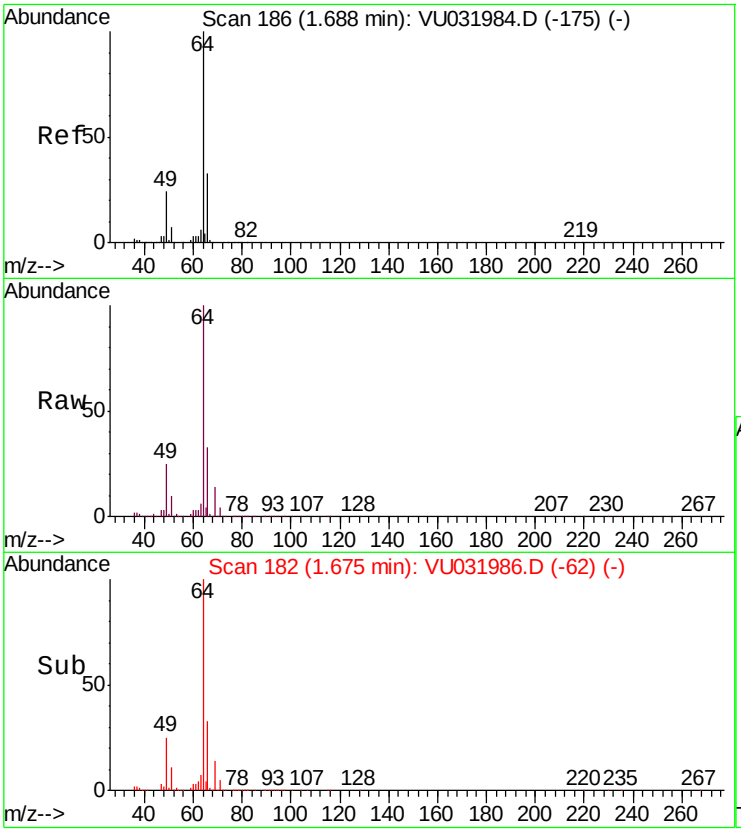


#6
Bromomethane
Concen: 151.900 ug/L
RT: 1.60 min Scan# 159
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 94 Resp: 1084580

Ion	Ratio	Lower	Upper
94	100		
96	94.1	64.0	118.8



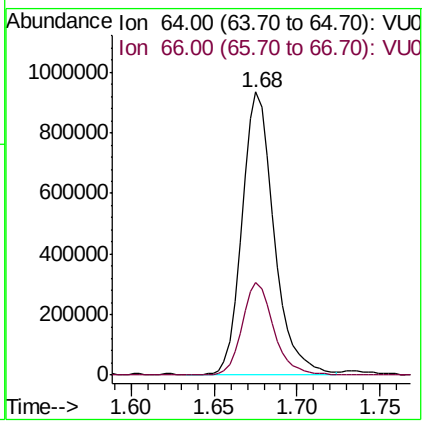


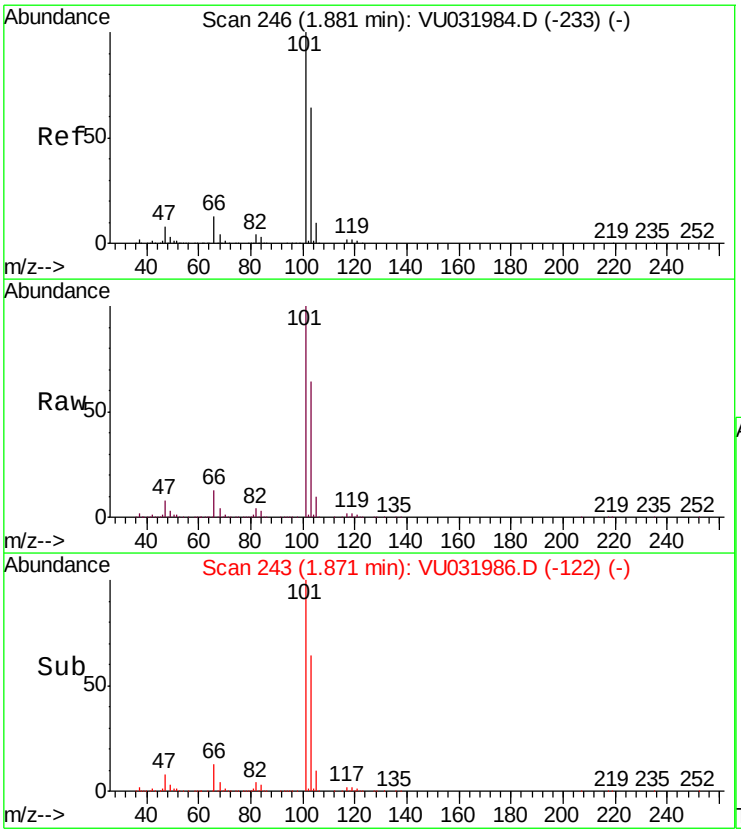
#8
Chloroethane
Concen: 167.116 ug/L
RT: 1.68 min Scan# 182
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 64 Resp: 1243466

Ion	Ratio	Lower	Upper
64	100		
66	32.6	22.7	42.1

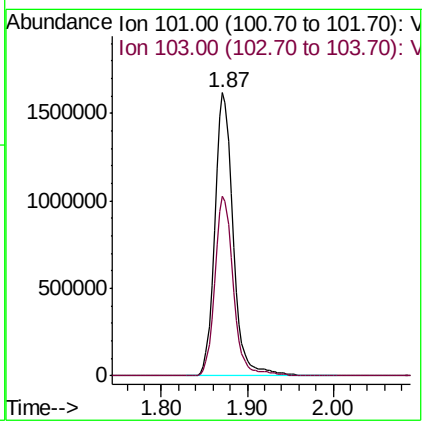


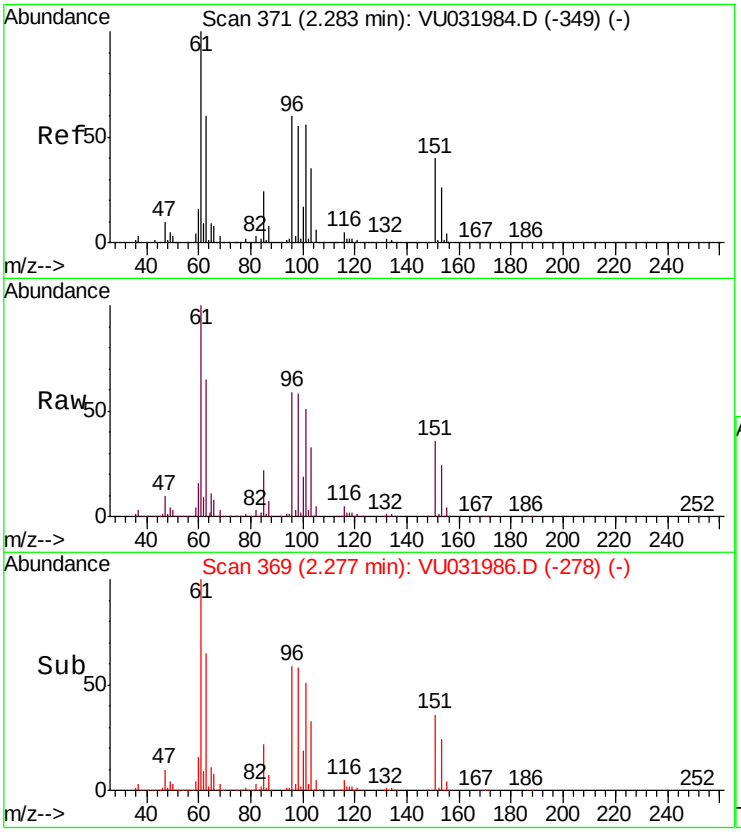


#9
Trichlorofluoromethane
Concen: 157.140 ug/L
RT: 1.87 min Scan# 243
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion:101 Resp: 2407399

Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.2	78.2



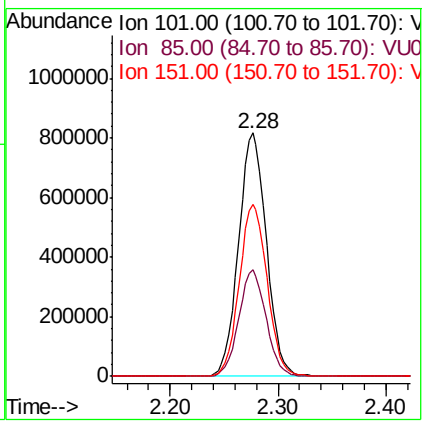


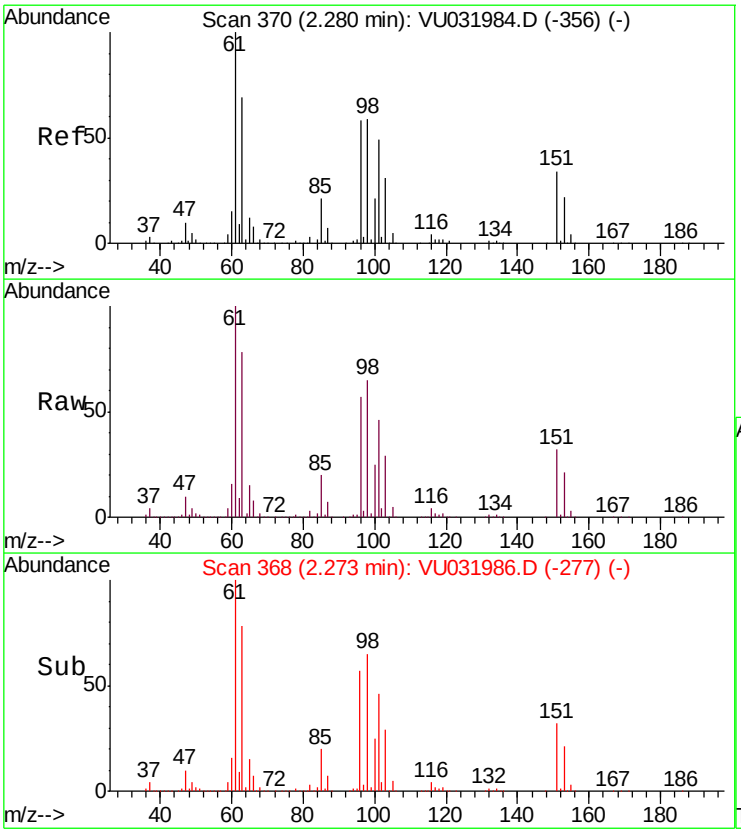
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 166.263 ug/L
RT: 2.28 min Scan# 369
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion:101 Resp: 1464566

Ion	Ratio	Lower	Upper
101	100		
85	42.7	34.1	51.1
151	70.9	55.8	83.8

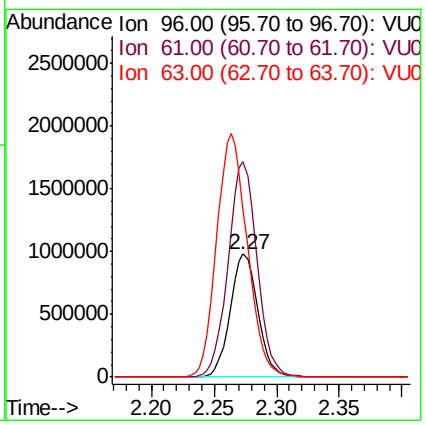


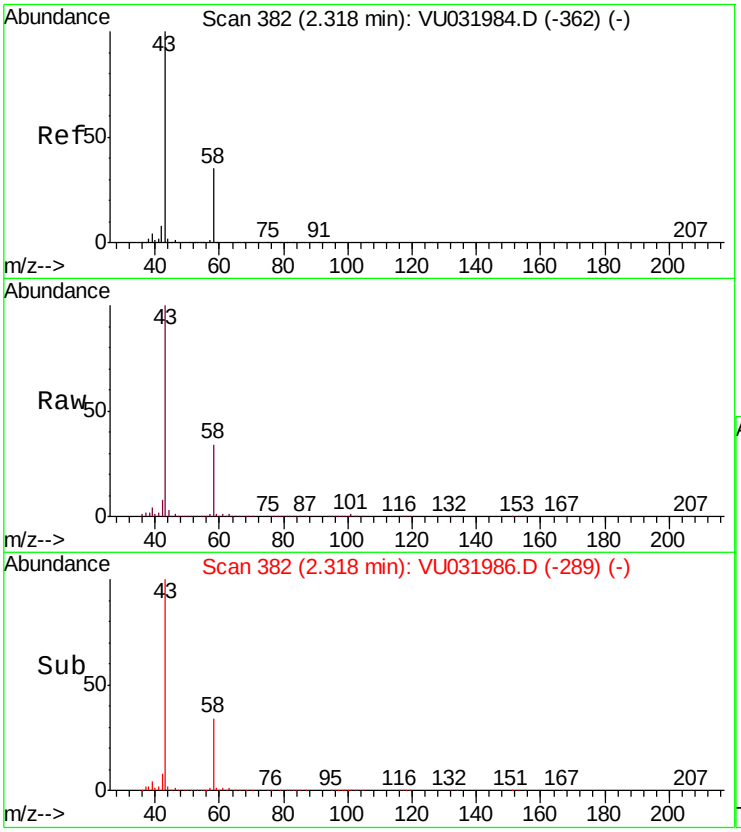


#12
1,1-Dichloroethene
Concen: 174.321 ug/L
RT: 2.27 min Scan# 368
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 96 Resp: 1499423

Ion	Ratio	Lower	Upper
96	100		
61	174.9	120.9	224.5
63	137.0	84.4	156.8



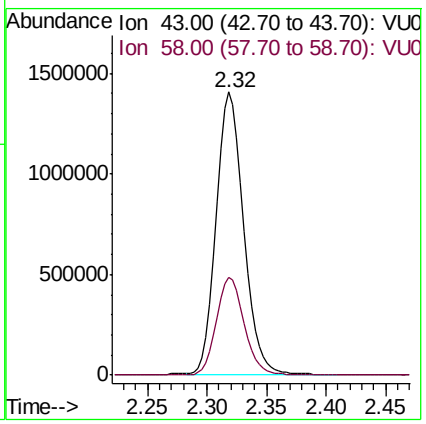


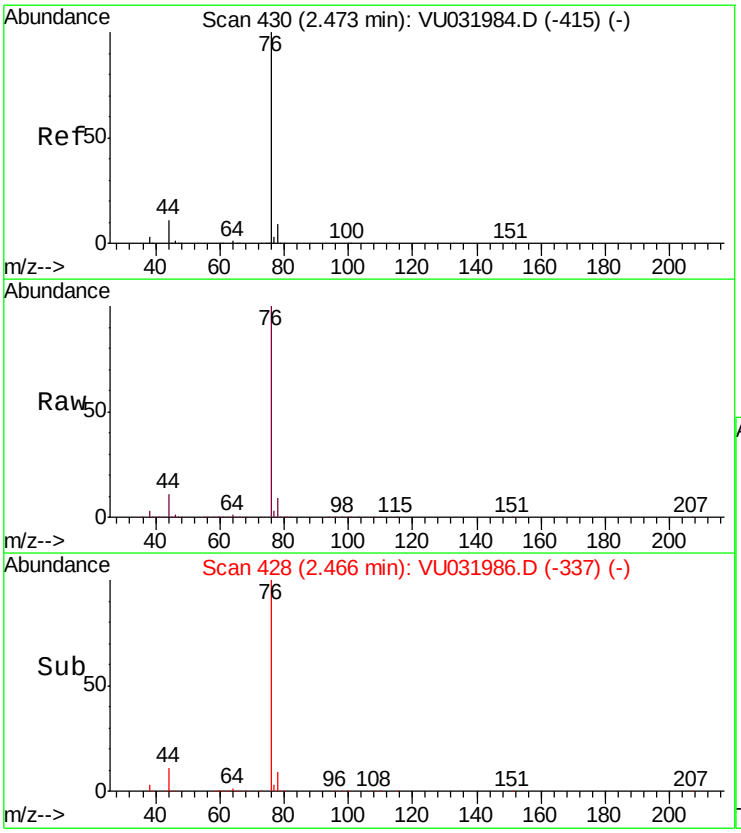
#13
Acetone
Concen: 248.583 ug/L
RT: 2.32 min Scan# 382
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Tgt Ion: 43 Resp: 2246185

Ion	Ratio	Lower	Upper
43	100		
58	35.0	0.0	68.2

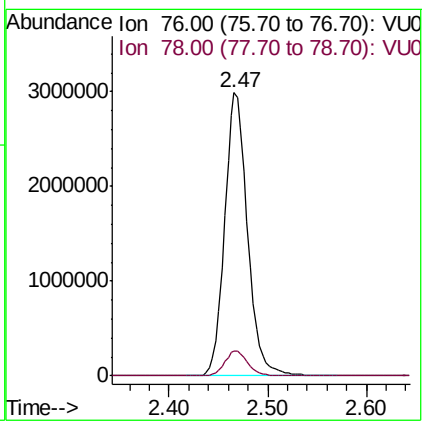


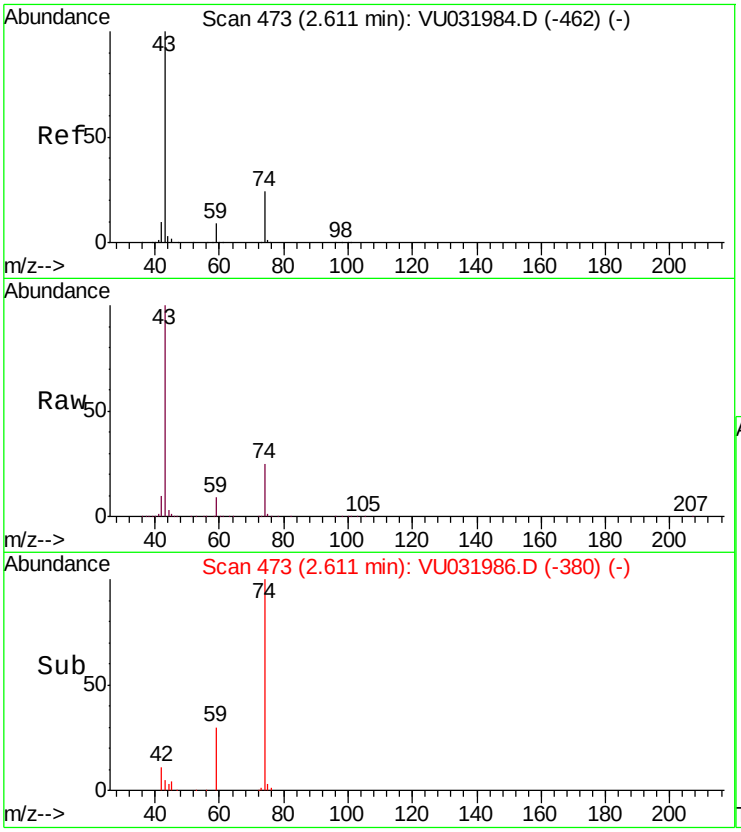


#14
Carbon disulfide
Concen: 171.053 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 76 Resp: 4858359

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2



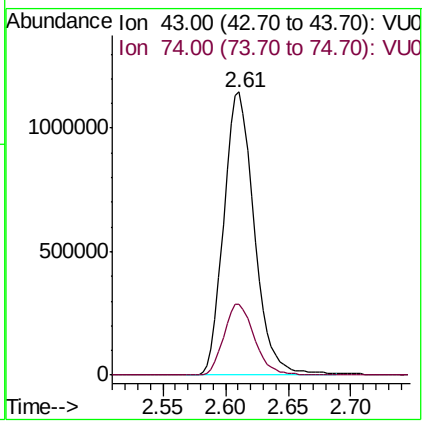


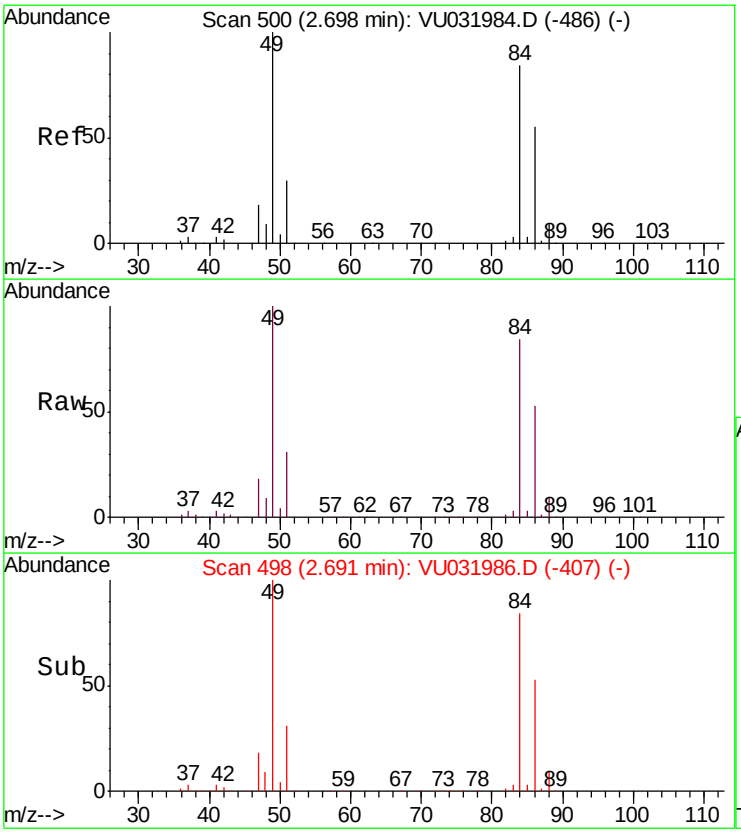
#15
Methyl Acetate
Concen: 141.397 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 43 Resp: 1931510

Ion	Ratio	Lower	Upper
43	100		
74	25.2	0.0	0.0#

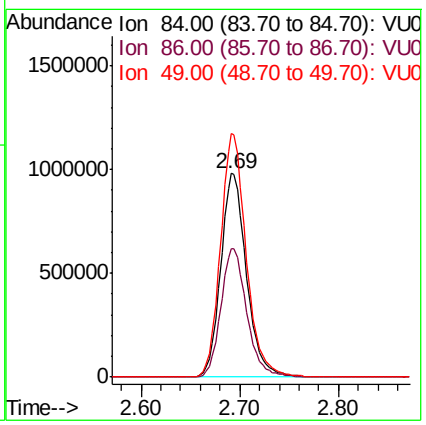


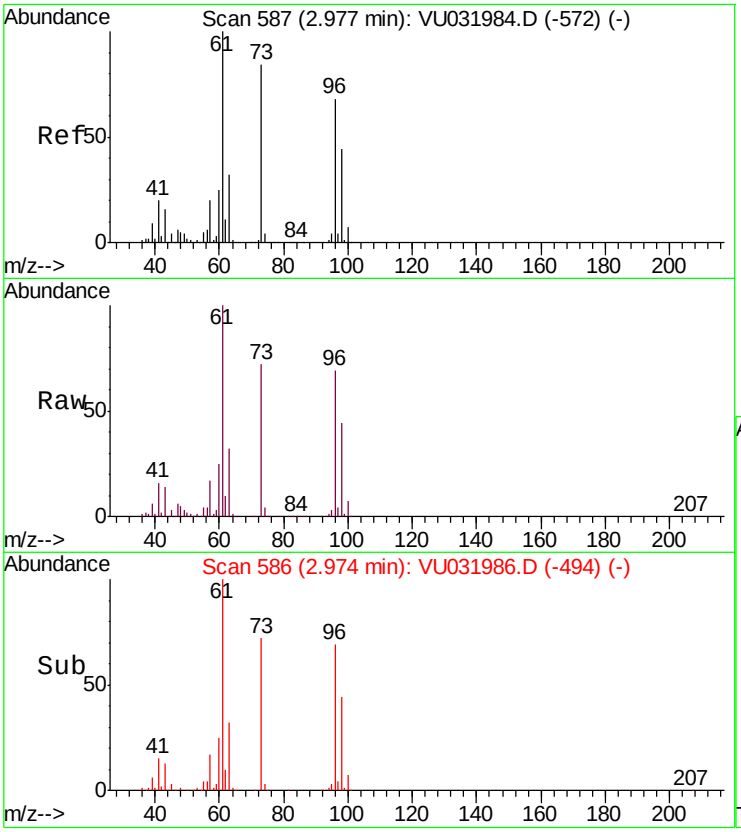


#16
Methylene chloride
Concen: 175.828 ug/L
RT: 2.69 min Scan# 498
Delta R.T. -0.01 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 84 Resp: 1794307

Ion	Ratio	Lower	Upper
84	100		
86	63.3	45.8	85.0
49	119.7	83.3	154.7



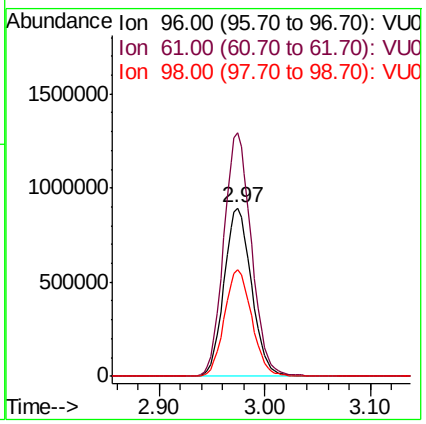


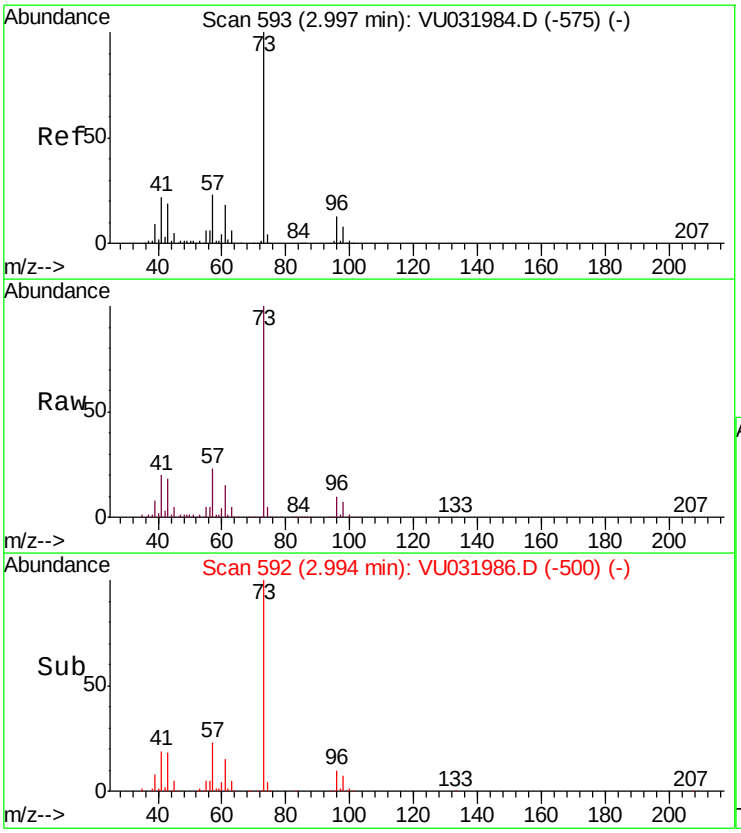
#17
trans-1,2-Dichloroethene
Concen: 178.882 ug/L
RT: 2.97 min Scan# 586
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 96 Resp: 1608432

Ion	Ratio	Lower	Upper
96	100		
61	144.5	103.2	191.6
98	63.2	45.7	84.9

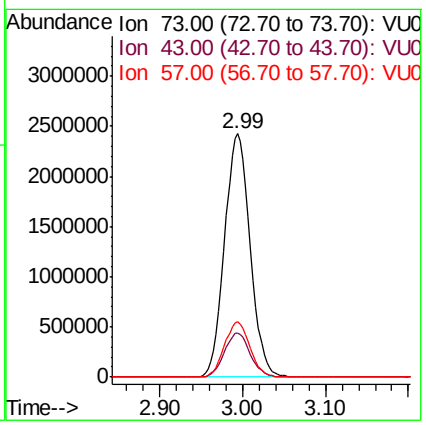


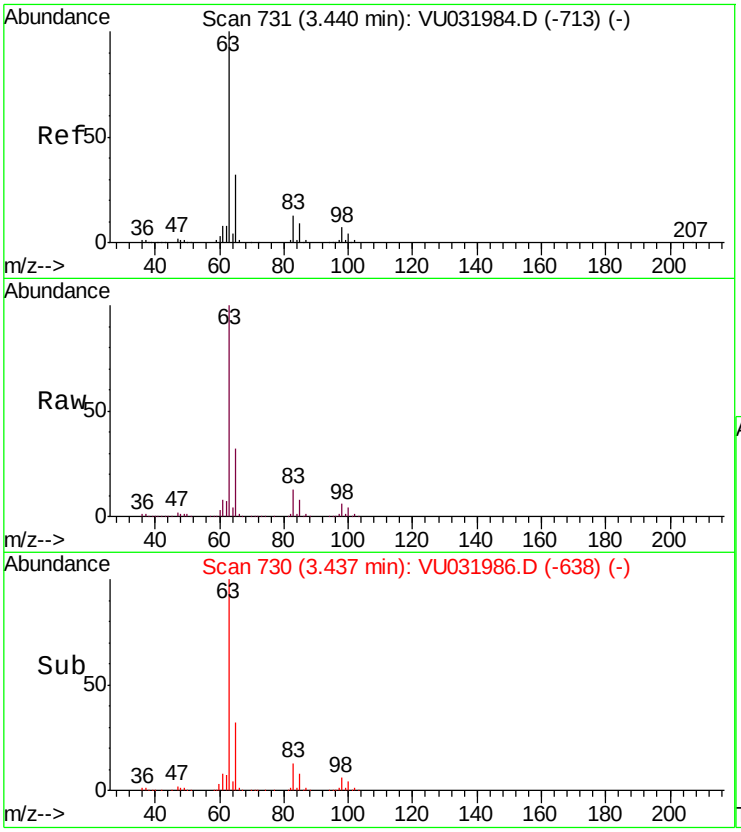


#18
Methyl tert-butyl Ether
Concen: 182.862 ug/L
RT: 2.99 min Scan# 592
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 73 Resp: 5190332

Ion	Ratio	Lower	Upper
73	100		
43	18.3	15.1	22.7
57	22.7	18.2	27.4



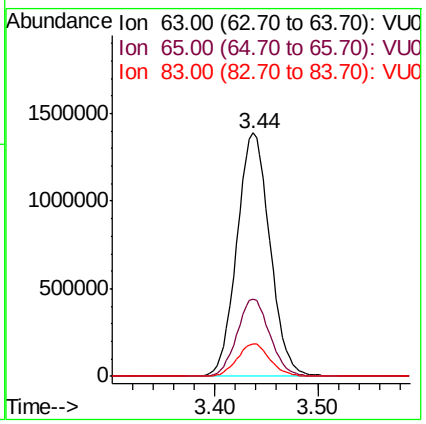


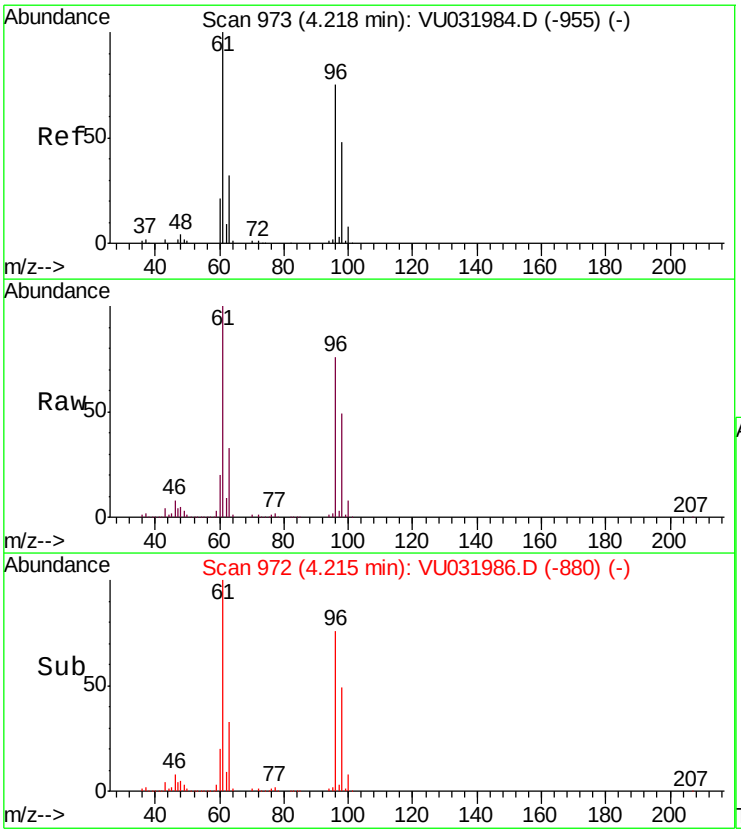
#19
1,1-Dichloroethane
Concen: 166.309 ug/L
RT: 3.44 min Scan# 730
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Tgt Ion: 63 Resp: 3088896

Ion	Ratio	Lower	Upper
63	100		
65	31.6	22.2	41.2
83	13.4	9.2	17.2

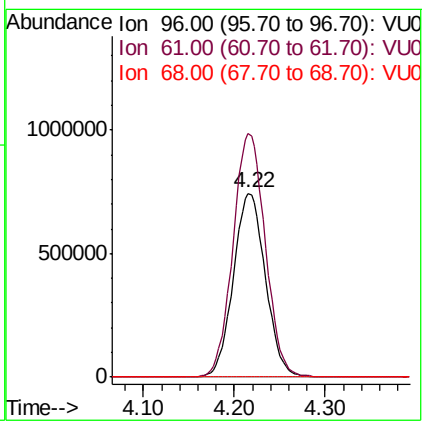


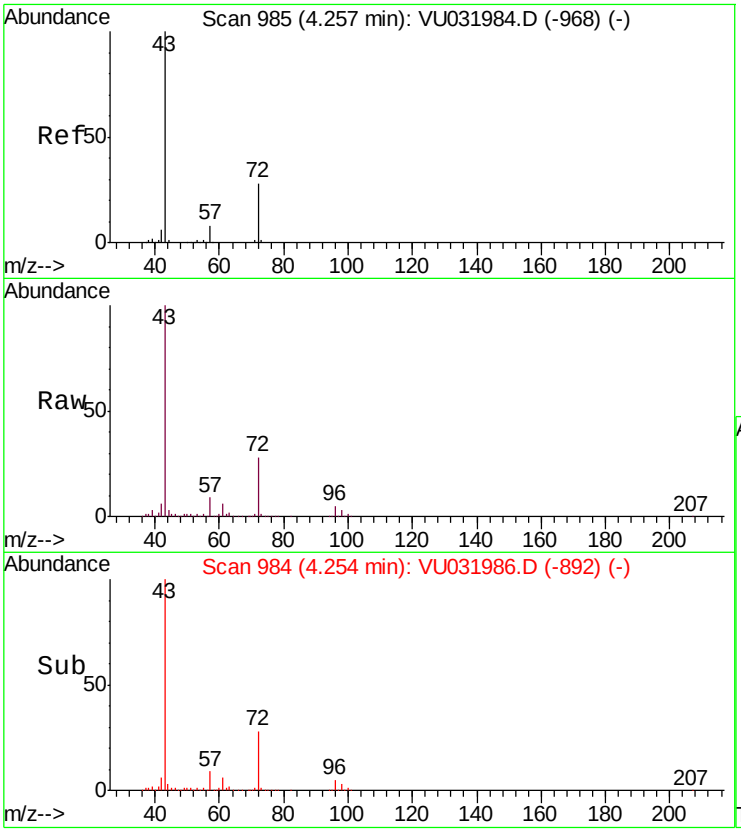


#20
cis-1,2-Dichloroethene
Concen: 188.141 ug/L
RT: 4.22 min Scan# 972
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 96 Resp: 1818719

Ion	Ratio	Lower	Upper
96	100		
61	132.4	93.0	172.8
68	0.0	0.0	0.0



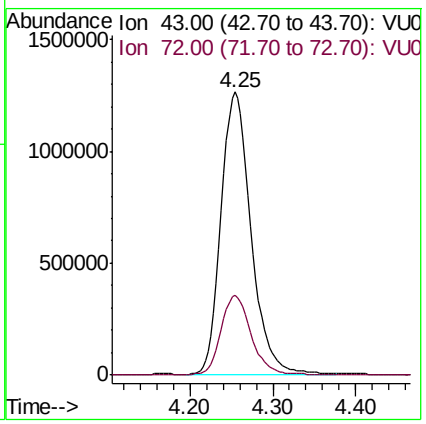


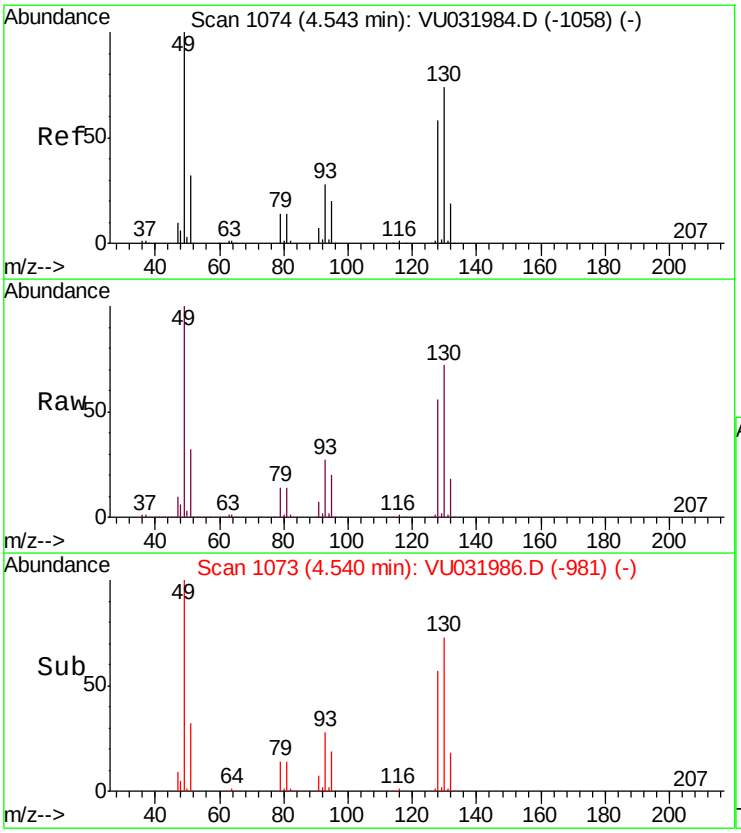
#22
2-Butanone
Concen: 315.011 ug/L
RT: 4.25 min Scan# 984
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 43 Resp: 3165550

Ion	Ratio	Lower	Upper
43	100		
72	28.8	13.9	41.7

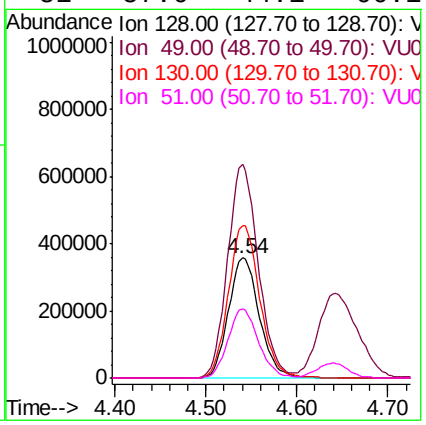


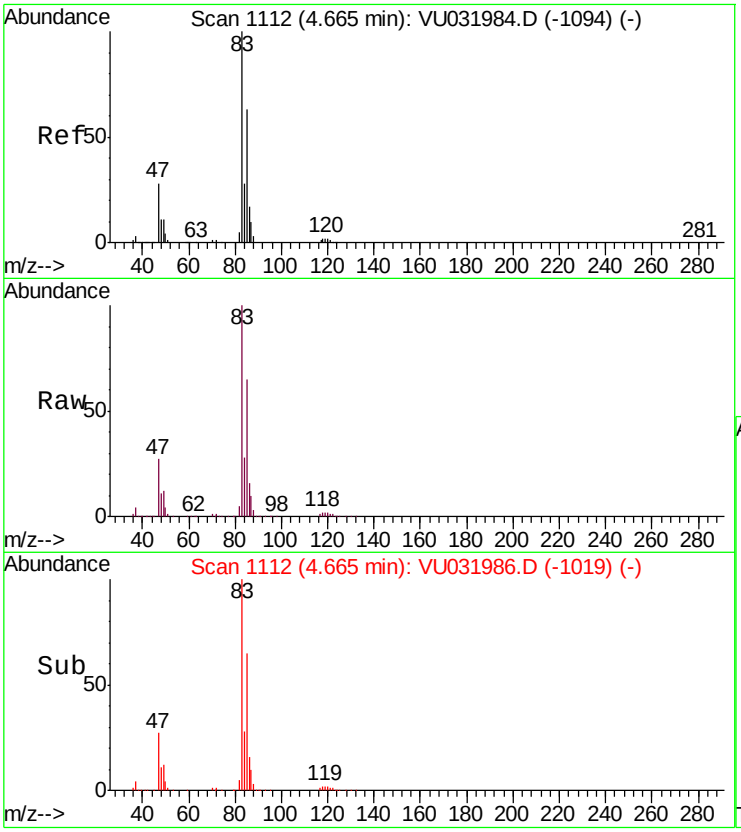


#23
Bromochloromethane
Concen: 179.215 ug/L
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion:128 Resp: 845728

Ion	Ratio	Lower	Upper
128	100		
49	178.1	121.7	226.1
130	127.4	89.5	166.1
51	57.6	44.1	66.1



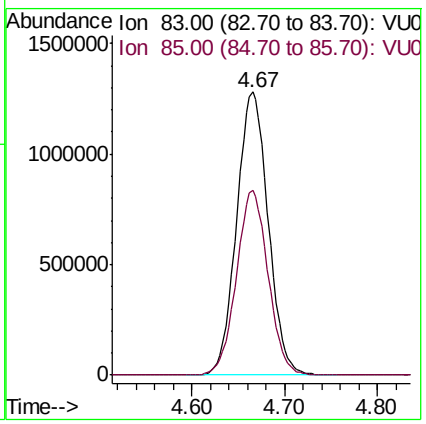


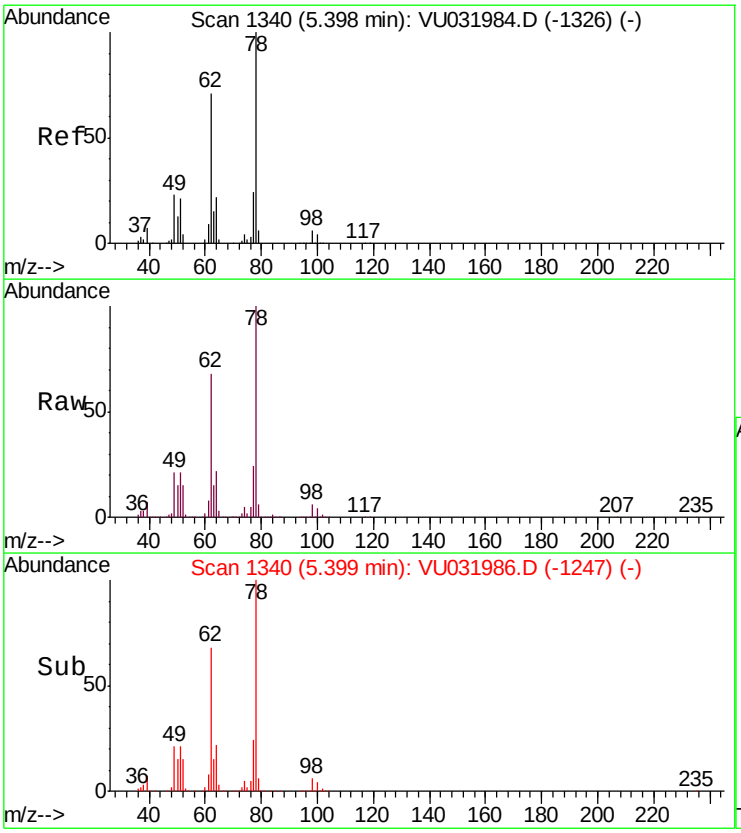
#25
Chloroform
Concen: 169.342 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 83 Resp: 3022597

Ion	Ratio	Lower	Upper
83	100		
85	65.2	44.2	82.2

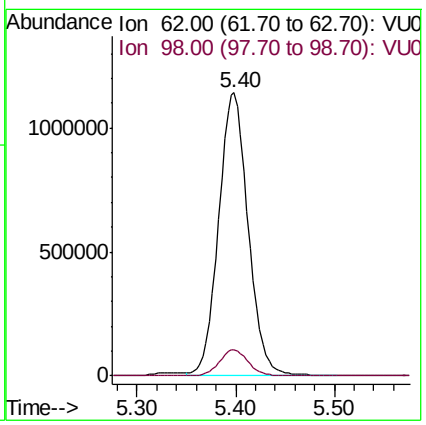


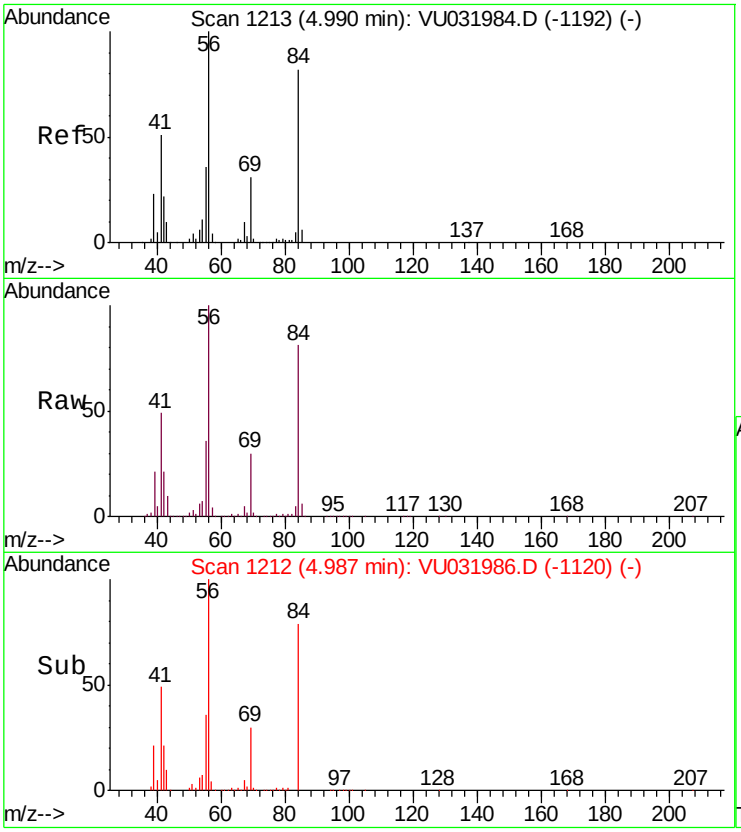


#27
1,2-Dichloroethane
Concen: 165.060 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 62 Resp: 2382081

Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.2	10.8



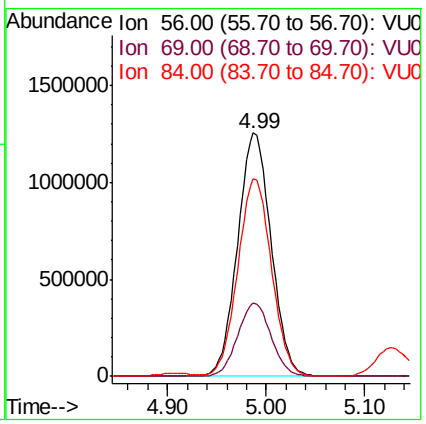


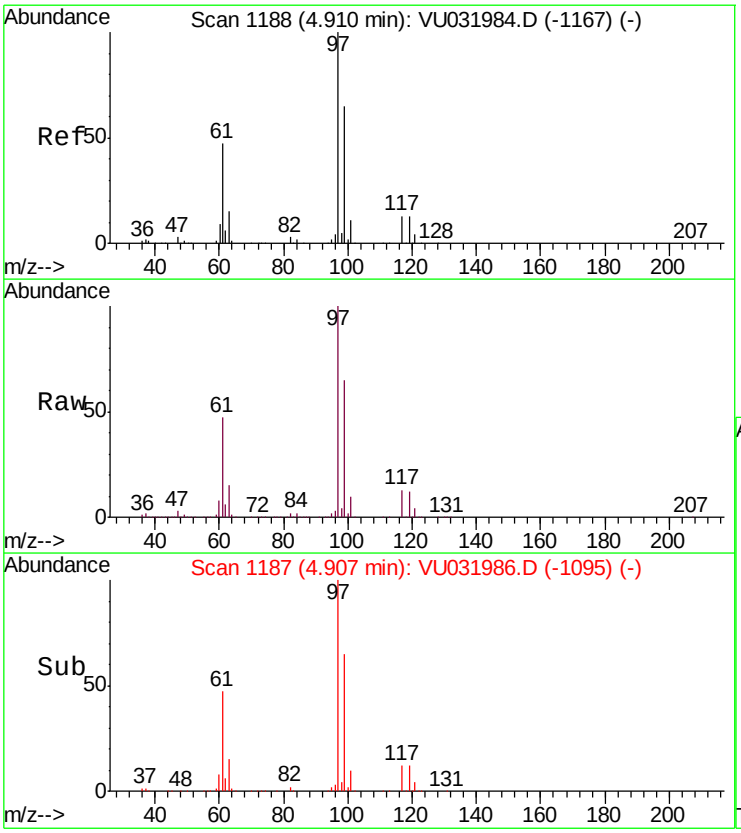
#29
Cyclohexane
Concen: 168.277 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 56 Resp: 2940343

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.8	37.2
84	81.5	65.5	98.3

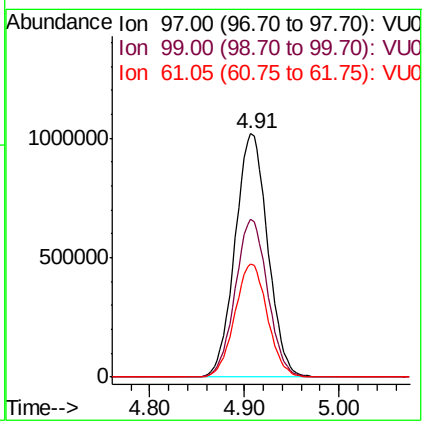


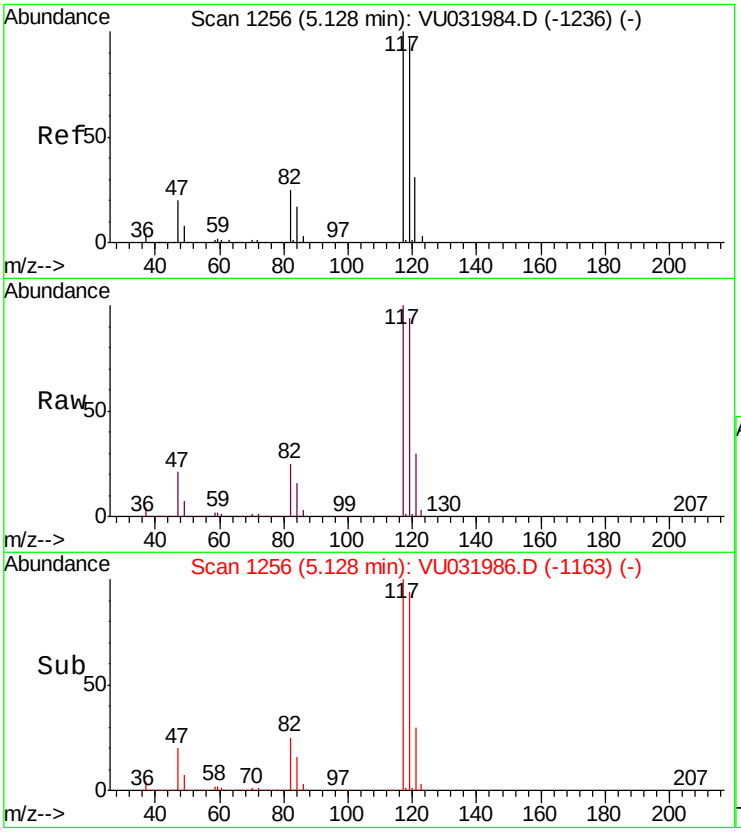


#30
1,1,1-Trichloroethane
Concen: 157.321 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 97 Resp: 2445782

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.8
61	46.3	37.5	56.3



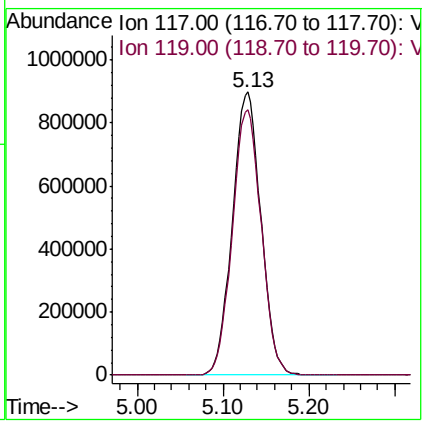


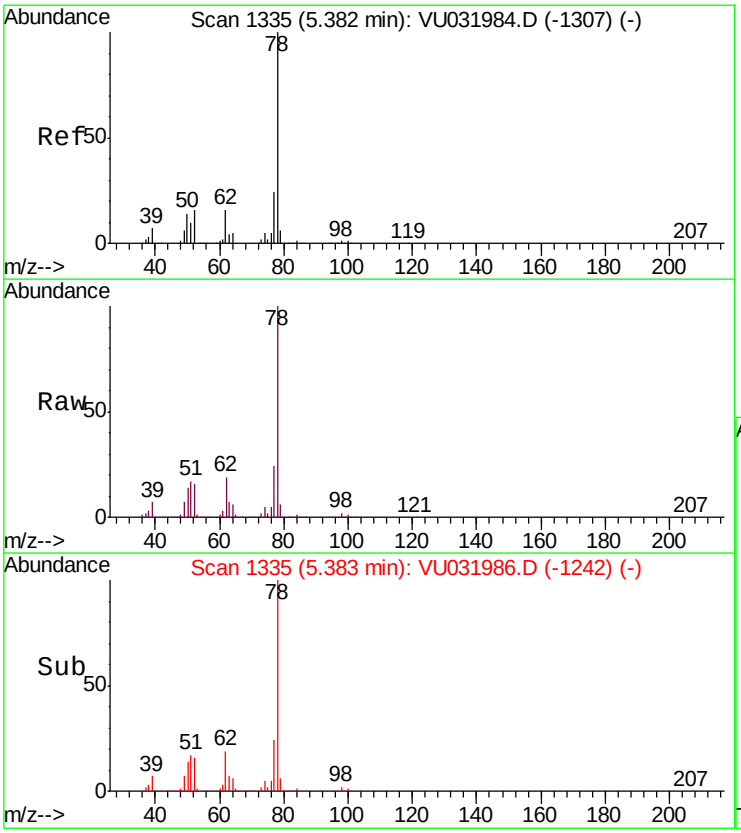
#31
Carbon tetrachloride
Concen: 156.075 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion:117 Resp: 2065493

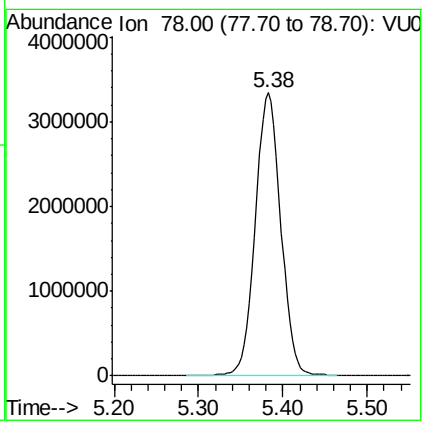
Ion	Ratio	Lower	Upper
117	100		
119	95.0	77.2	115.8

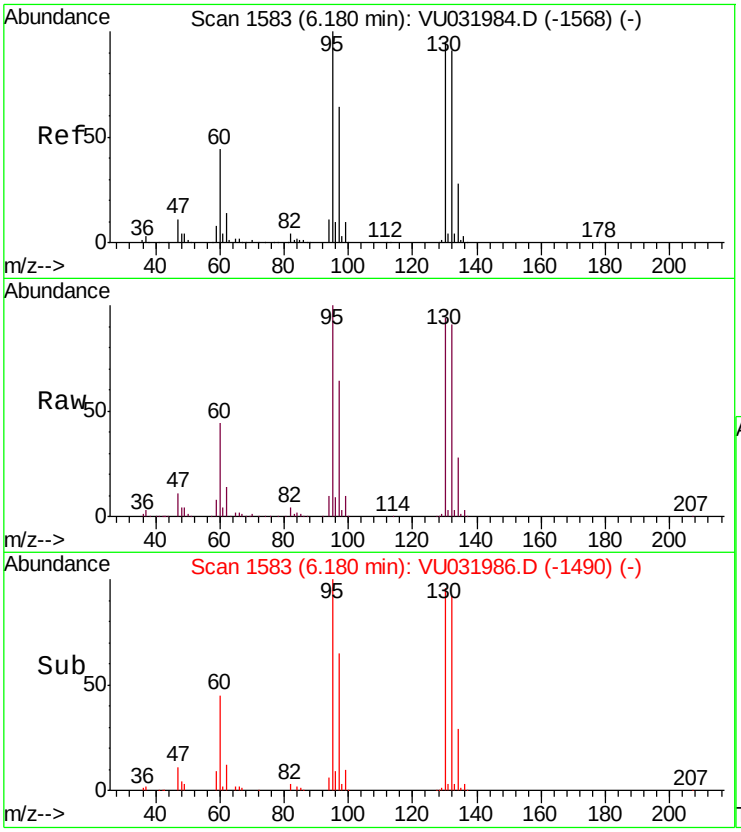




#33
Benzene
Concen: 169.426 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 78 Resp: 7012379



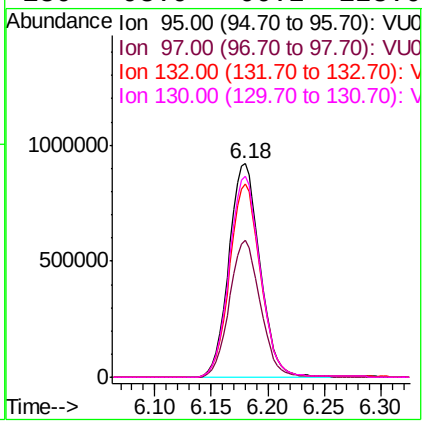


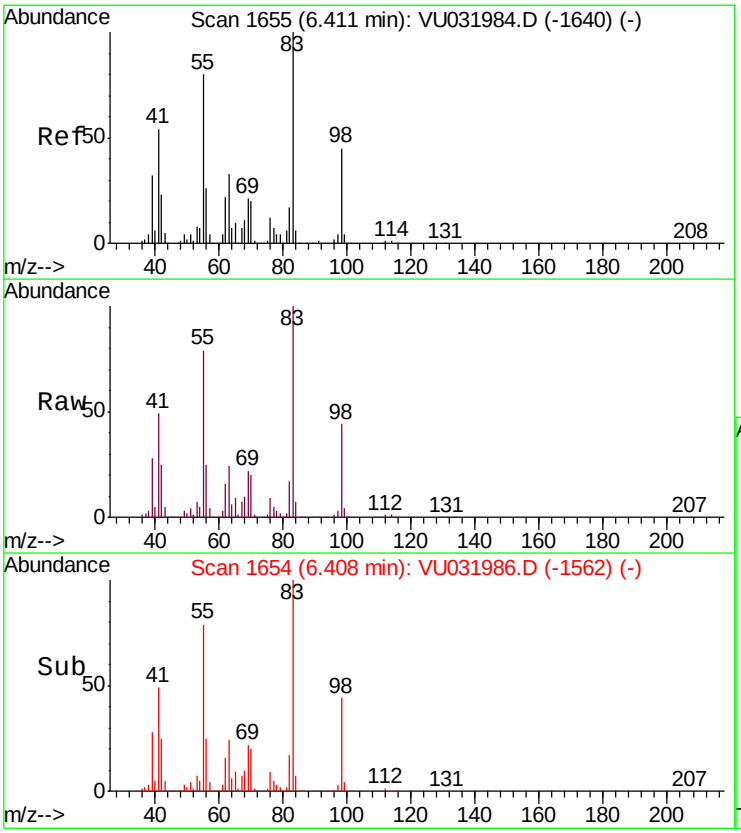
#34
Trichloroethene
Concen: 175.816 ug/L
RT: 6.18 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 95 Resp: 1763022

Ion	Ratio	Lower	Upper
95	100		
97	63.8	44.9	83.3
132	90.5	63.5	117.9
130	93.9	66.2	123.0

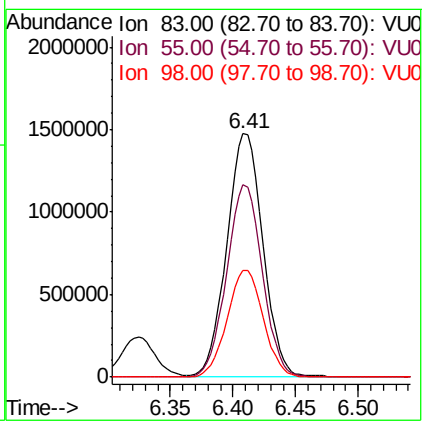


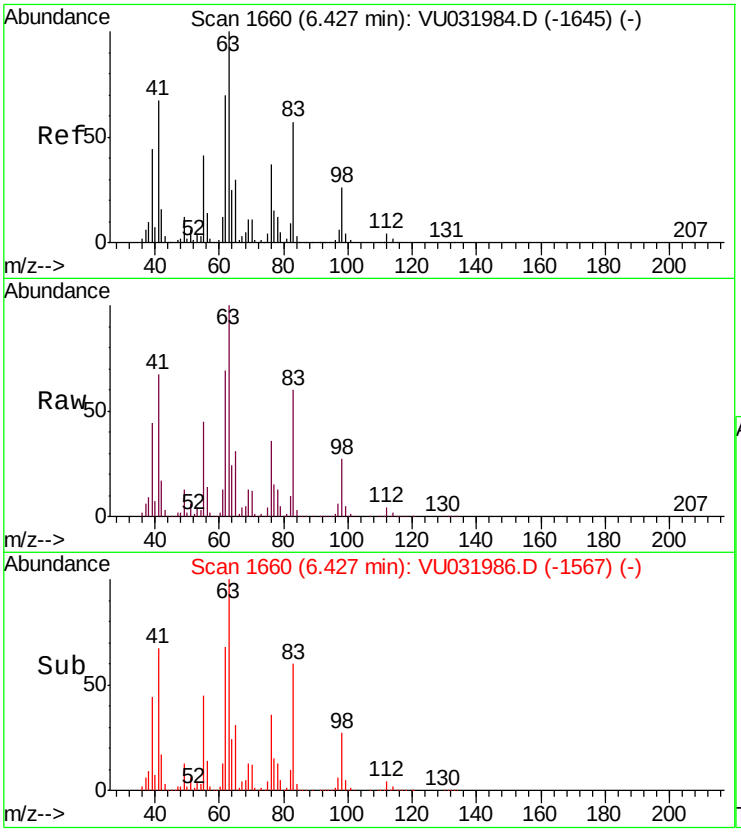


#35
Methylcyclohexane
Concen: 193.095 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 83 Resp: 2929840

Ion	Ratio	Lower	Upper
83	100		
55	78.7	64.0	96.0
98	44.2	35.6	53.4



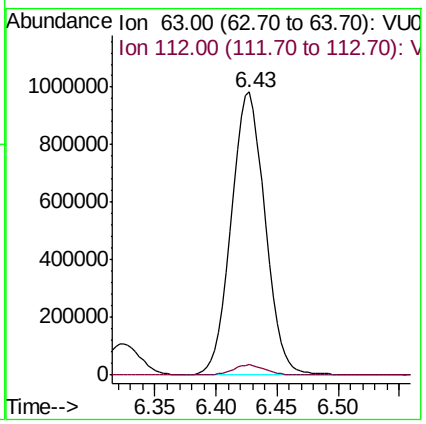


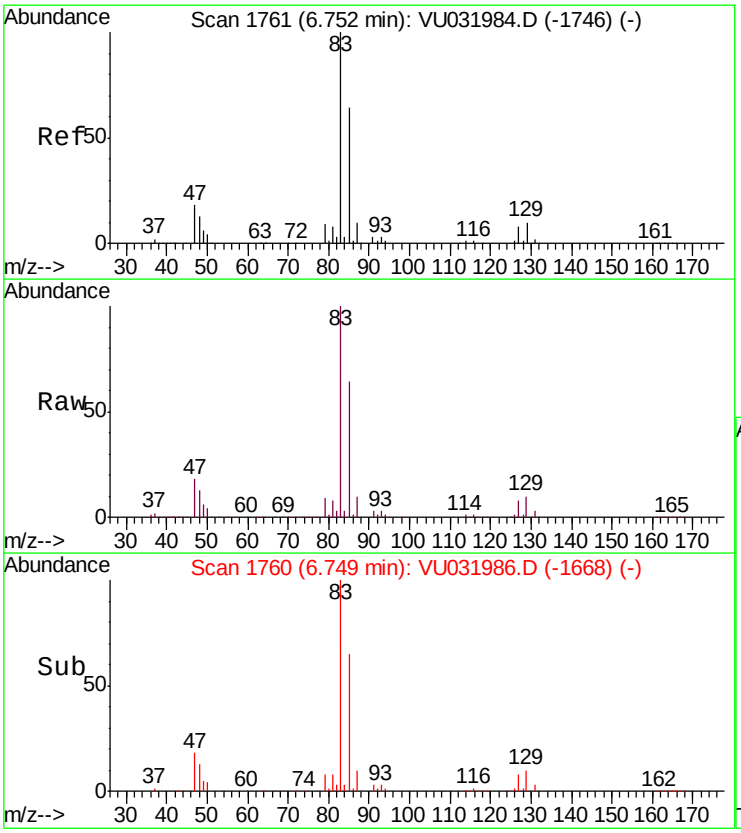
#37
1,2-Dichloropropane
Concen: 162.123 ug/L
RT: 6.43 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument : MSVOA_U
ClientSampleId : VSTD20054

Tgt Ion: 63 Resp: 1885718

Ion	Ratio	Lower	Upper
63	100		
112	3.6	3.0	4.4

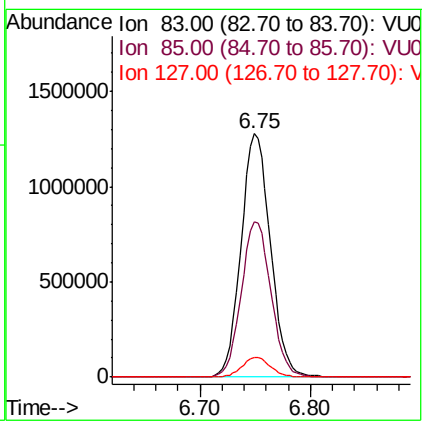


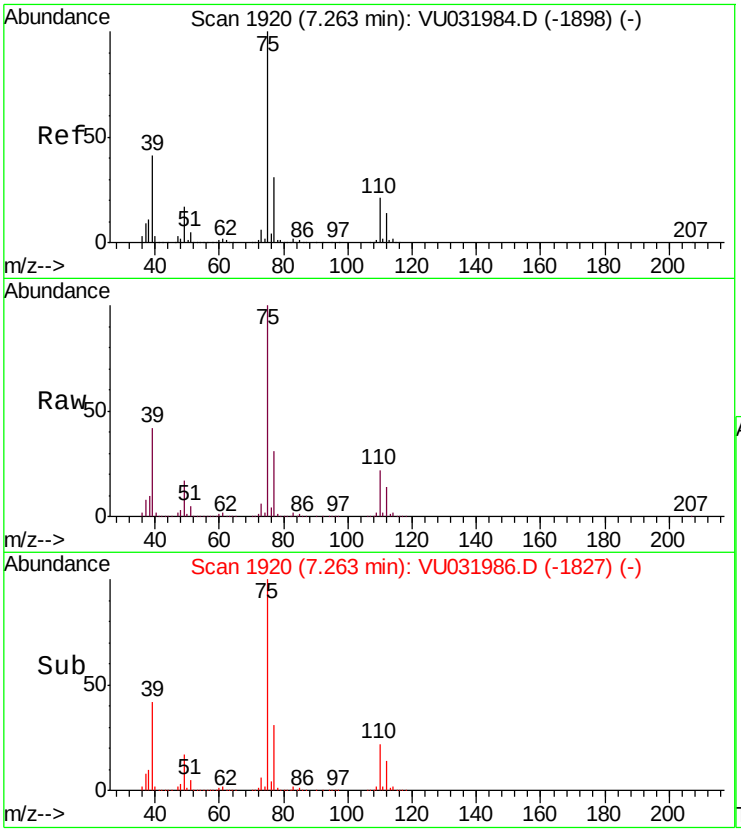


#38
Bromodichloromethane
Concen: 167.059 ug/L
RT: 6.75 min Scan# 1760
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 83 Resp: 2351876

Ion	Ratio	Lower	Upper
83	100		
85	64.0	44.7	82.9
127	7.9	6.5	9.7



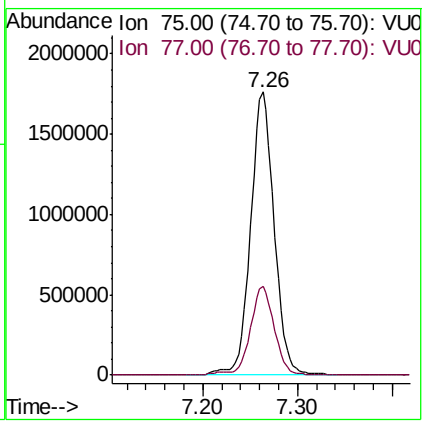


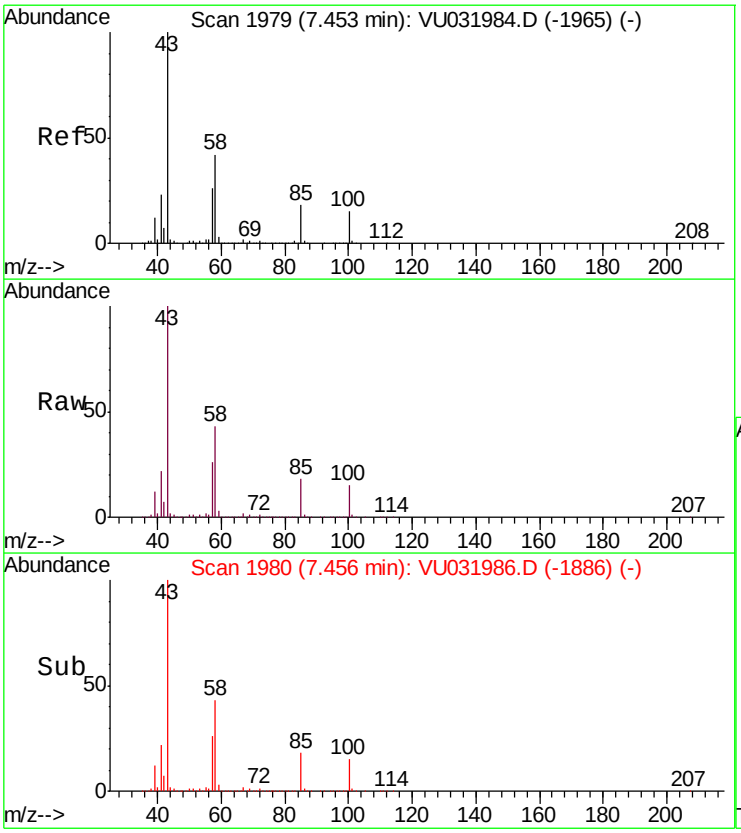
#39
cis-1,3-Dichloropropene
Concen: 194.769 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 75 Resp: 3055730

Ion	Ratio	Lower	Upper
75	100		
77	31.2	21.8	40.6

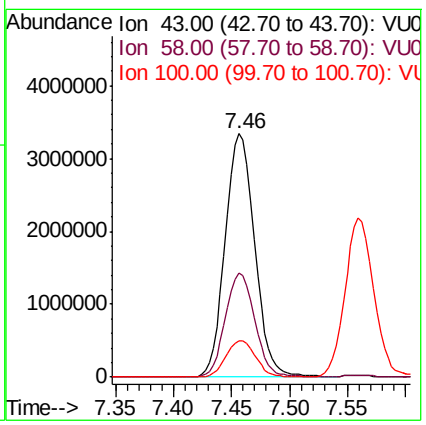


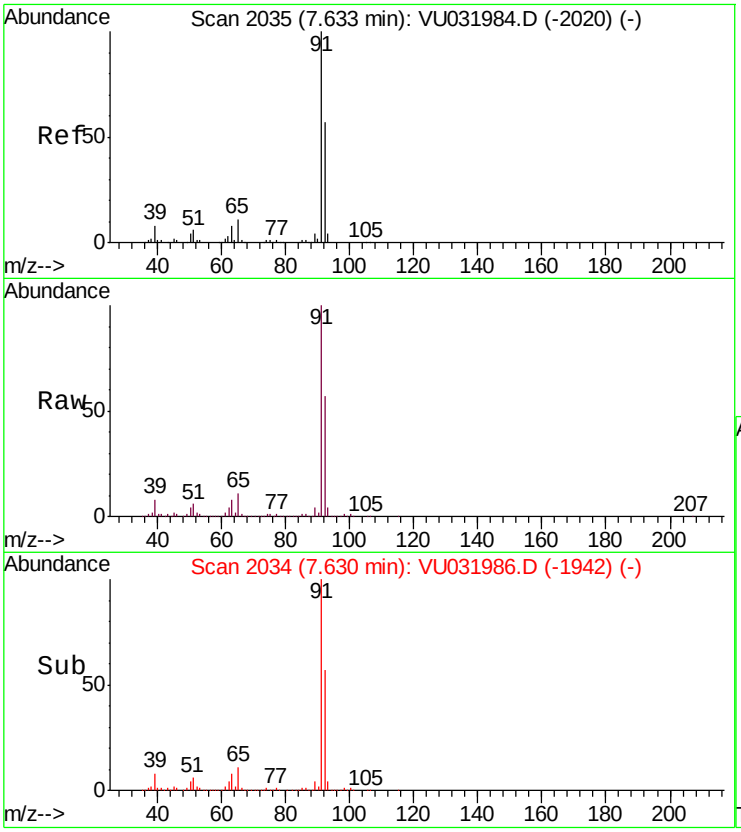


#40
4-Methyl-2-pentanone
Concen: 334.184 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 43 Resp: 5882367

Ion	Ratio	Lower	Upper
43	100		
58	42.6	33.6	50.4
100	15.1	11.8	17.8



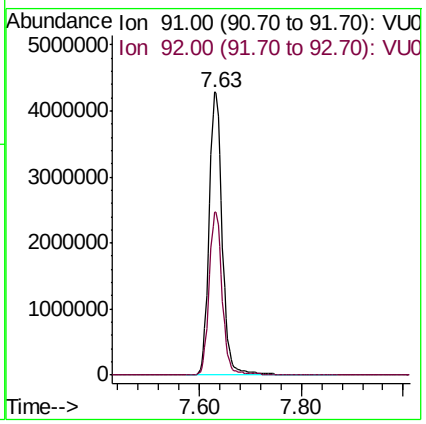


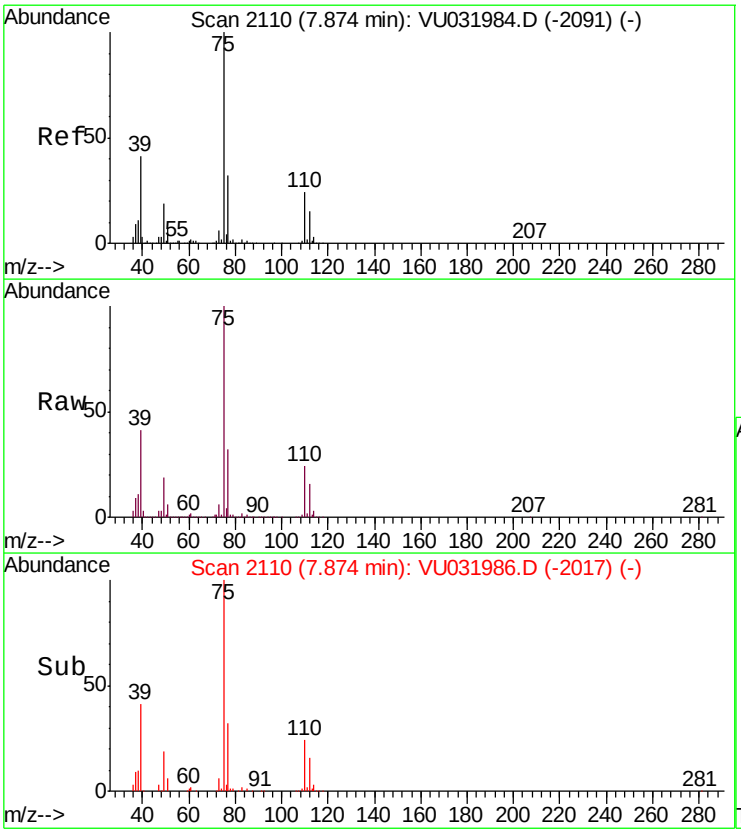
#42
Toluene
Concen: 184.442 ug/L
RT: 7.63 min Scan# 2034
Delta R.T. -0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 91 Resp: 7655784

Ion	Ratio	Lower	Upper
91	100		
92	57.5	40.2	74.6

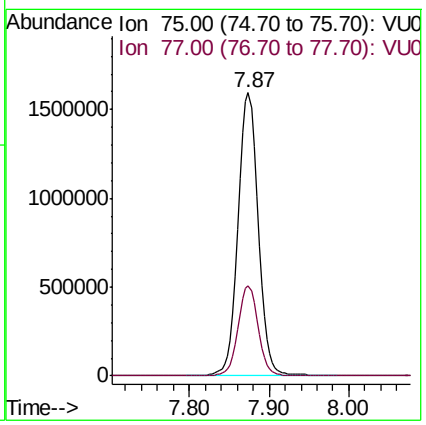


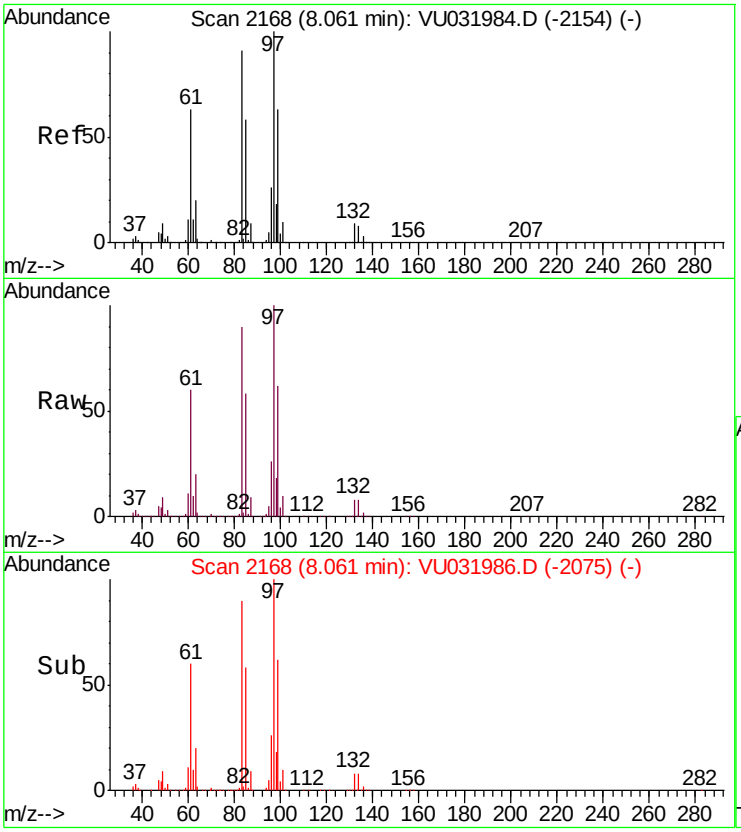


#44
trans-1,3-Dichloropropene
Concen: 191.048 ug/L
RT: 7.87 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion: 75 Resp: 2686011

Ion	Ratio	Lower	Upper
75	100		
77	32.0	22.5	41.7



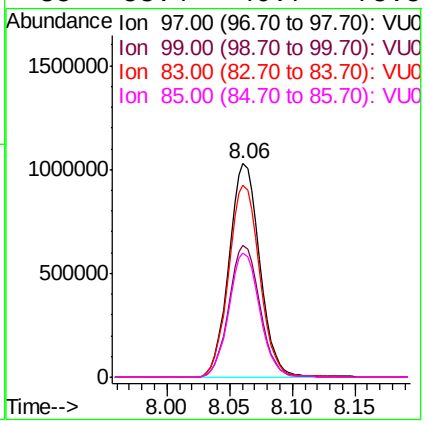


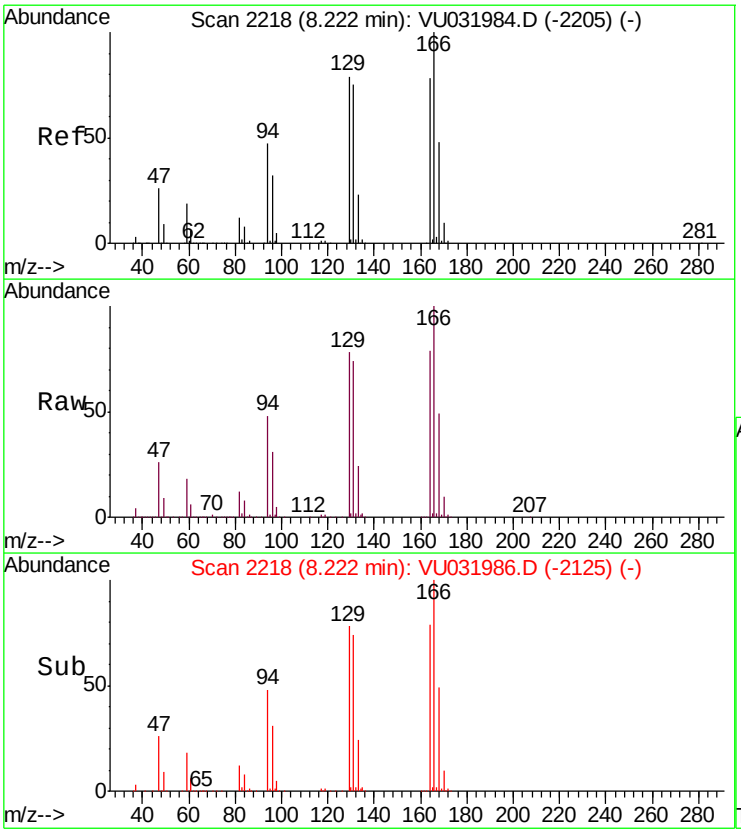
#45
1,1,2-Trichloroethane
Concen: 180.971 ug/L
RT: 8.06 min Scan# 2168
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD20054

Tgt Ion: 97 Resp: 1756960

Ion	Ratio	Lower	Upper
97	100		
99	61.9	44.4	82.4
83	90.2	63.8	118.4
85	58.4	40.7	75.5





#46
Tetrachloroethene
Concen: 179.903 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VU031986.D
Acq: 14 May 2019 11:55

Tgt Ion:164 Resp: 1244876

Ion	Ratio	Lower	Upper
164	100		
129	98.4	70.9	131.7
131	93.7	67.4	125.2
166	126.6	90.2	167.4