Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020223\
Data File : VU052922.D
Acq On : 02 Feb 2023 13:51
Operator : JC/MD
Sample : 01381-27
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Quant Time: Feb 03 00:25:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 03 00:24:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	245302	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	245857	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	130759	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	77229	43.742	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 87.480%			
7) Chloroethane-d5	1.909	69	71077	48.857	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.720%			
11) 1,1-Dichloroethene-d2	2.556	63	119406	34.003	ug/L	-0.01
Spiked Amount 50.000	Range 60 - 125		Recovery = 68.000%			
21) 2-Butanone-d5	4.636	46	83345	76.415	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 76.420%			
24) Chloroform-d	5.057	84	169343	44.942	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 89.880%			
26) 1,2-Dichloroethane-d4	5.697	65	117499	48.837	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 97.680%			
32) Benzene-d6	5.719	84	344934	45.922	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 91.840%			
36) 1,2-Dichloropropane-d6	6.687	67	101034	45.863	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 91.720%			
41) Toluene-d8	7.893	98	323291	47.267	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.540%			
43) trans-1,3-Dichloroprop...	8.179	79	51309	46.469	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 92.940%			
47) 2-Hexanone-d5	8.655	63	61612	79.596	ug/L	0.03
Spiked Amount 100.000	Range 45 - 130		Recovery = 79.600%			
56) 1,1,2,2-Tetrachloroeth...	10.761	84	135401	41.600	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 83.200%			
66) 1,2-Dichlorobenzene-d4	12.192	152	125966	49.613	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.220%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.382	85	42184	18.365	ug/L	99
3) Chloromethane	1.517	50	84121	44.404	ug/L	99
6) Bromomethane	1.855	94	34526	26.122	ug/L	99
9) Trichlorofluoromethane	2.118	101	115583	32.926	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	75055	37.933	ug/L	97
13) Acetone	2.636	43	590370	443.191	ug/L	98
15) Methyl Acetate	2.948	43	158161	88.121	ug/L	100
16) Methylene chloride	3.041	84	49101	22.746	ug/L	93
18) Methyl tert-butyl Ether	3.359	73	625917	108.546	ug/L	99
22) 2-Butanone	4.713	43	85151	59.804	ug/L	98
27) 1,2-Dichloroethane	5.790	62	225294	73.709	ug/L	99
29) Cyclohexane	5.382	56	54871	18.834	ug/L	98
34) Trichloroethene	6.536	95	81830	38.469	ug/L	95
35) Methylcyclohexane	6.758	83	204901	60.861	ug/L	99
40) 4-Methyl-2-pentanone	7.816	43	291449	120.232	ug/L	100
42) Toluene	7.967	91	533294	62.176	ug/L	98
46) Tetrachloroethene	8.549	164	35024	19.121	ug/L	93
48) 2-Hexanone	8.706	43	237661	115.892	ug/L	99
51) Chlorobenzene	9.446	112	147662	25.023	ug/L	98

Quantitation Report (QT/LSC Reviewed)

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Operator : JC/MD
Sample : 01381-27
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ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Quant Time: Feb 03 00:25:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 03 00:24:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.568	91	276905	30.209	ug/L	100
53) m,p-Xylene	9.690	106	329214	88.718	ug/L	100
54) o-xylene	10.099	106	149718	42.263	ug/L	93
55) Styrene	10.115	104	381696	62.790	ug/L	97
61) Isopropylbenzene	10.485	105	491353	58.182	ug/L	99
65) 1,4-Dichlorobenzene	11.835	146	87257	19.782	ug/L	97
67) 1,2-Dichlorobenzene	12.211	146	95098	22.066	ug/L	98
70) 1,2,4-trichlorobenzene	13.838	180	51719	19.557	ug/L	99
72) 1,2,3-Trichlorobenzene	14.327	180	161416	57.755	ug/L	98

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

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Quant Time: Feb 03 00:25:23 2023
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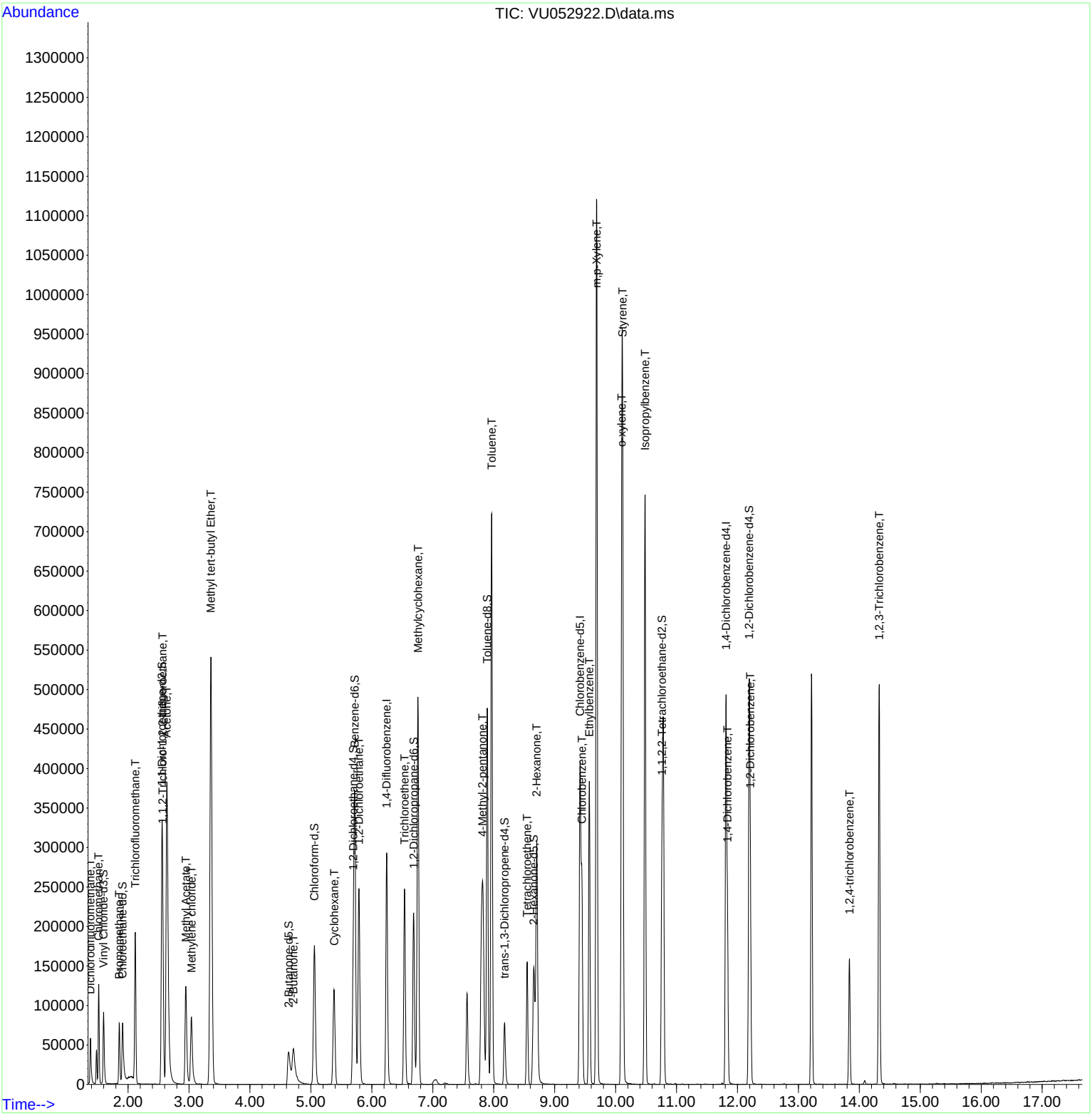
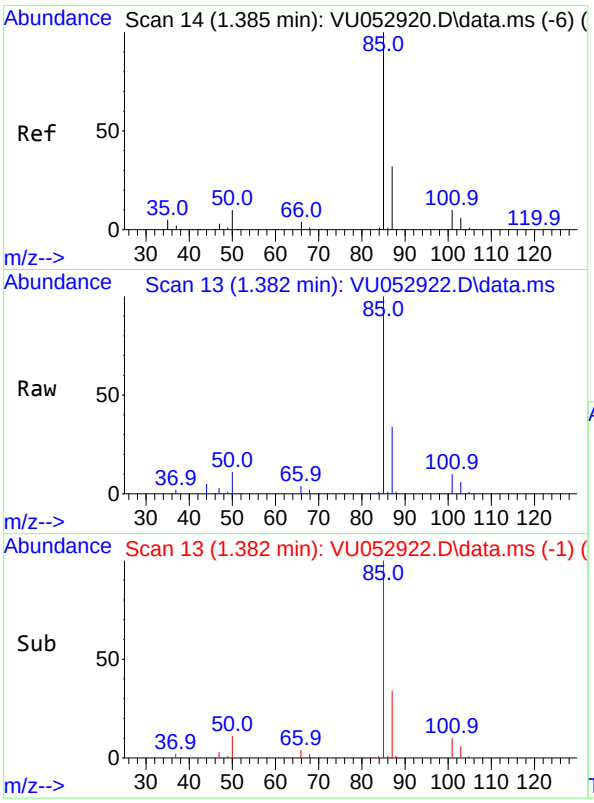
Quant Title : VOC Analysis
QLast Update : Fri Feb 03 00:24:34 2023
Response via : Initial Calibration



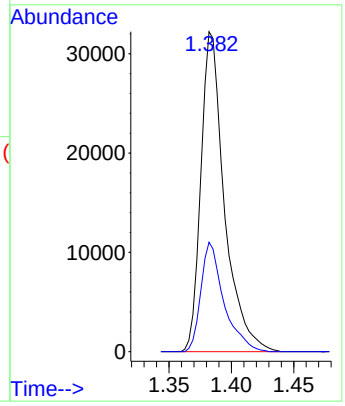


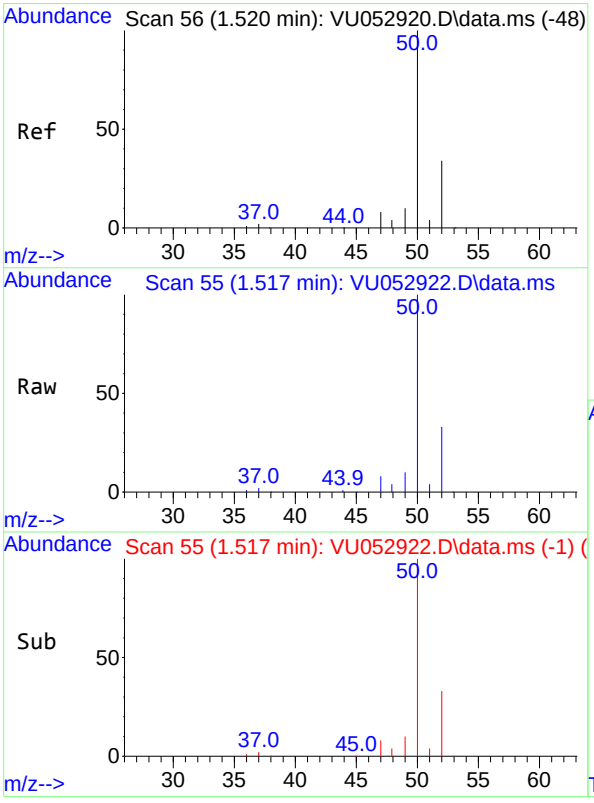
#2
Dichlorodifluoromethane
Concen: 18.365 ug/L
RT: 1.382 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 85 Resp: 42184

Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.4	39.6

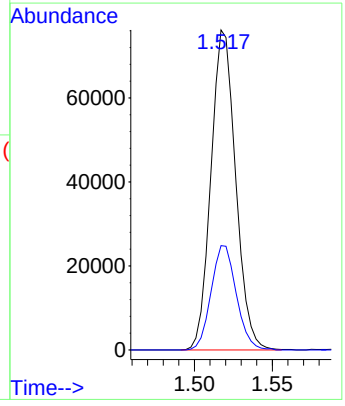


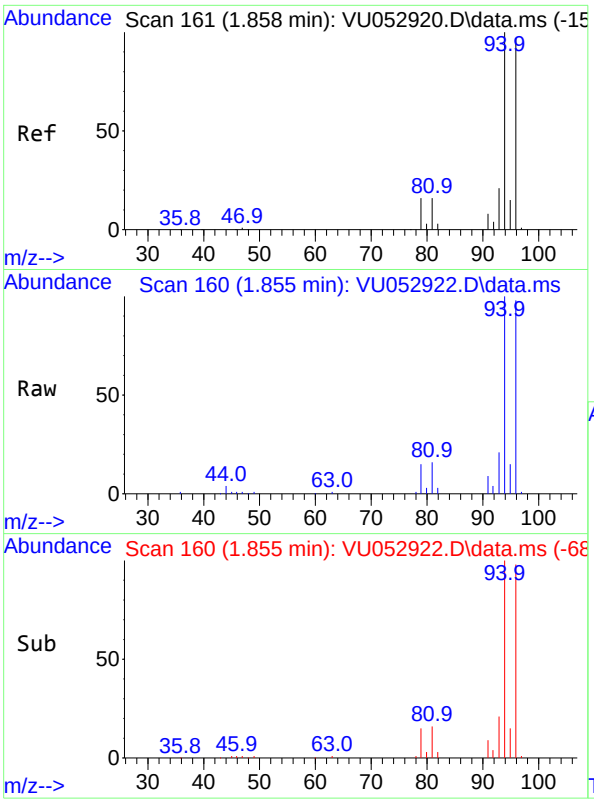


#3
Chloromethane
Concen: 44.404 ug/L
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 50 Resp: 84121

Ion	Ratio	Lower	Upper
50	100		
52	32.6	23.4	43.4



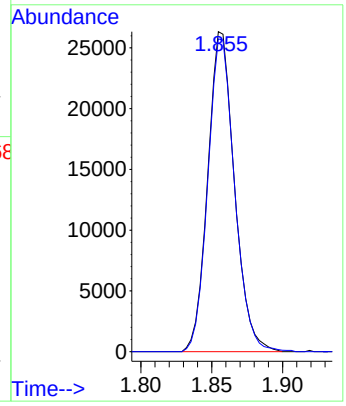


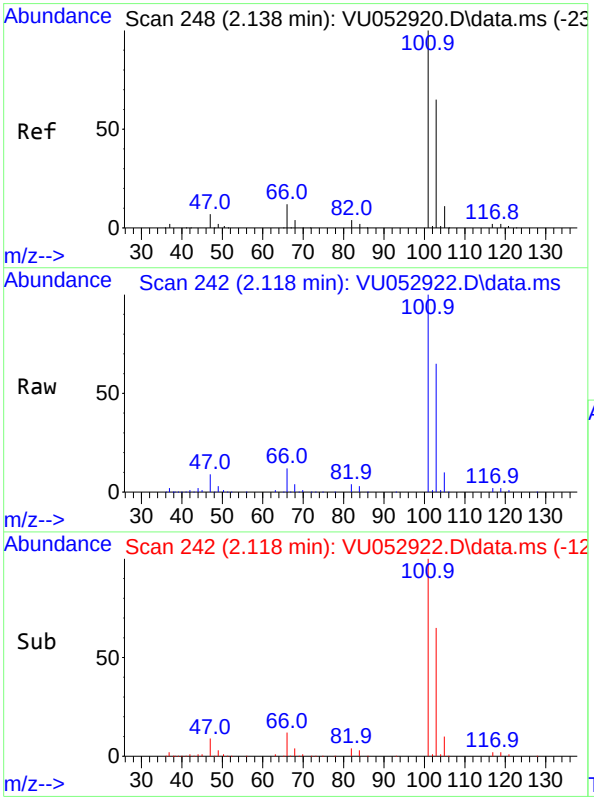
#6
Bromomethane
Concen: 26.122 ug/L
RT: 1.855 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 94 Resp: 34526

Ion	Ratio	Lower	Upper
94	100		
96	97.8	67.8	125.8

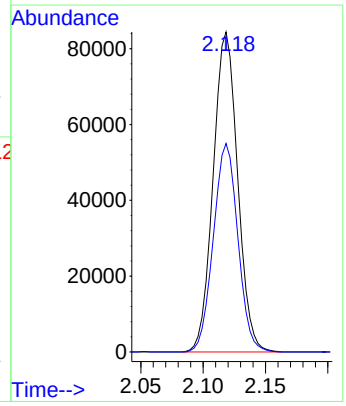


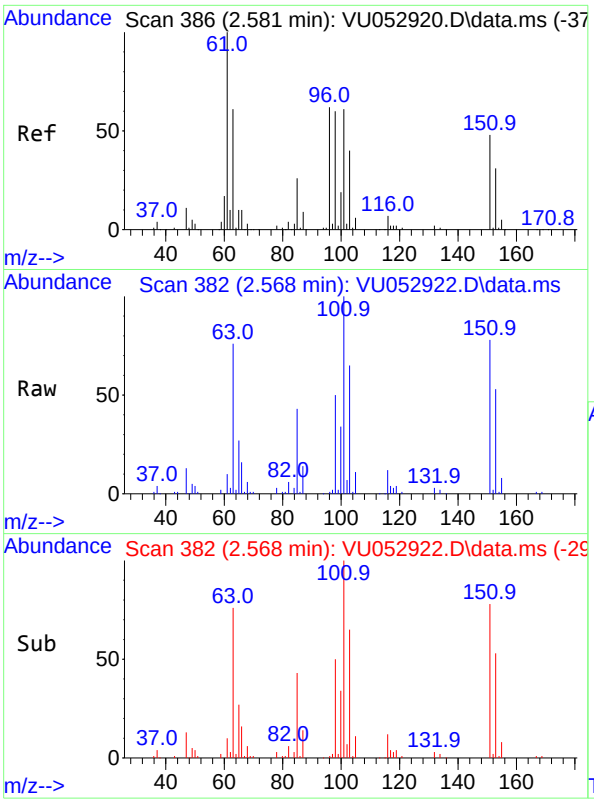


#9
Trichlorofluoromethane
Concen: 32.926 ug/L
RT: 2.118 min Scan# 242
Delta R.T. -0.019 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:101 Resp: 115583

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.0	78.0



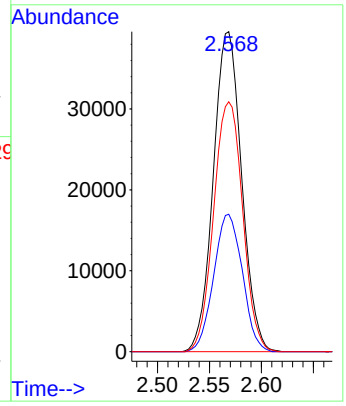


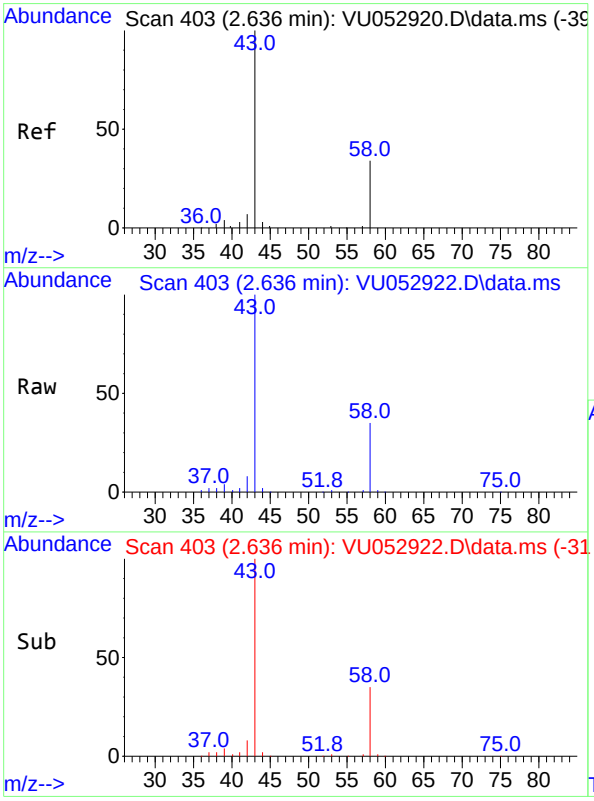
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 37.933 ug/L
RT: 2.568 min Scan# 3
Delta R.T. -0.013 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:101 Resp: 75055

Ion	Ratio	Lower	Upper
101	100		
85	43.4	32.9	49.3
151	80.0	62.6	94.0

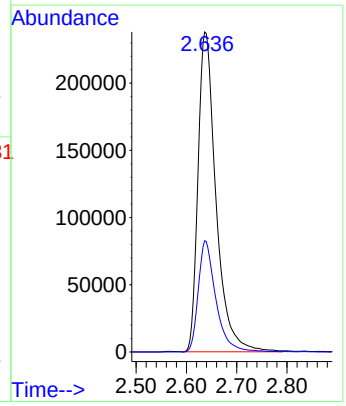


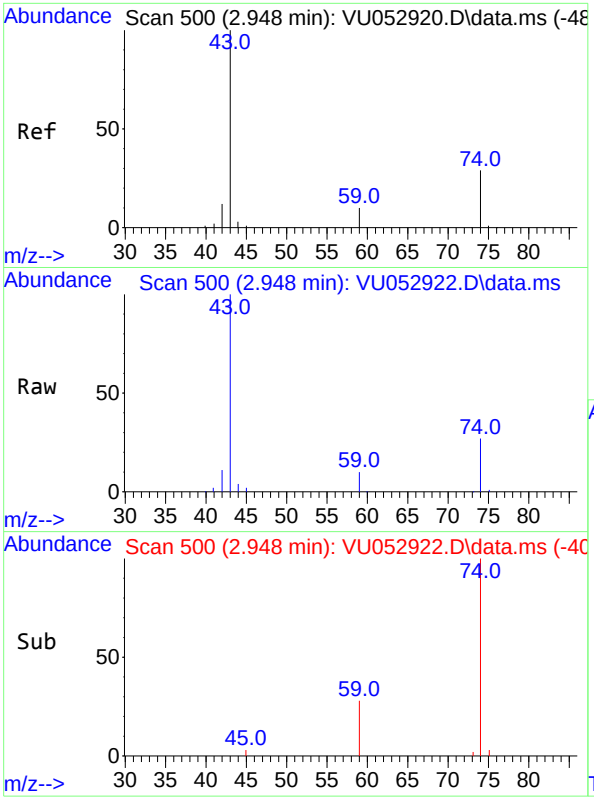


#13
Acetone
Concen: 443.191 ug/L
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 43 Resp: 590370

Ion	Ratio	Lower	Upper
43	100		
58	33.9	0.0	70.2



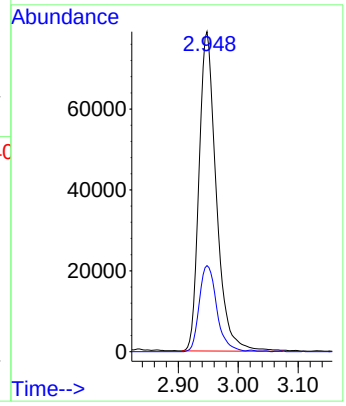


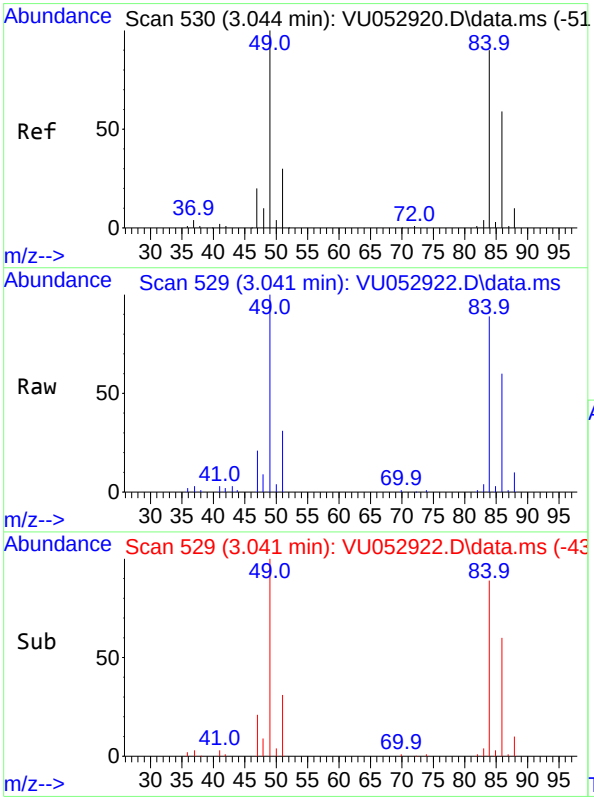
#15
Methyl Acetate
Concen: 88.121 ug/L
RT: 2.948 min Scan# 5
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 43 Resp: 158161

Ion	Ratio	Lower	Upper
43	100		
74	27.4	22.0	33.0

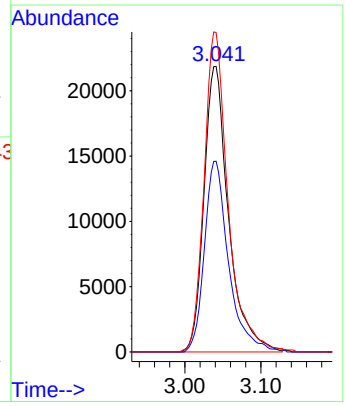


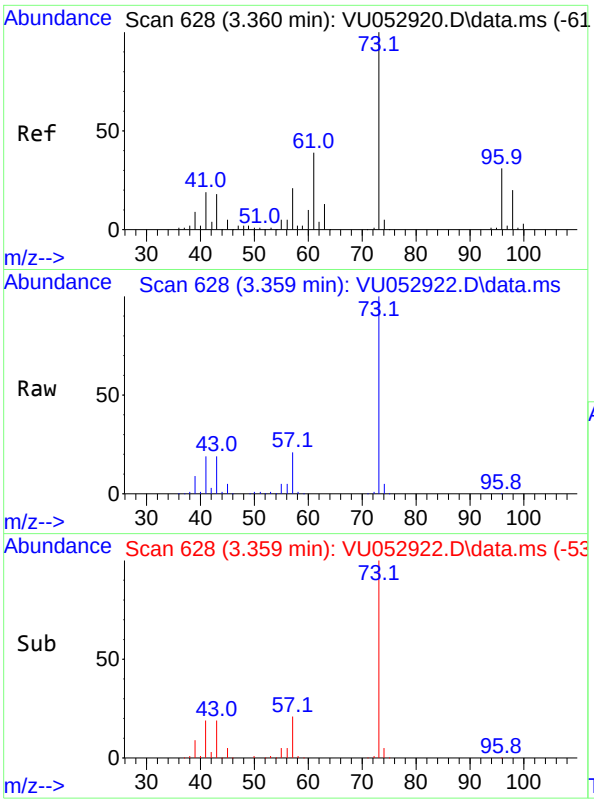


#16
Methylene chloride
Concen: 22.746 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 84 Resp: 49101

Ion	Ratio	Lower	Upper
84	100		
86	66.8	43.4	80.6
49	111.9	72.4	134.5



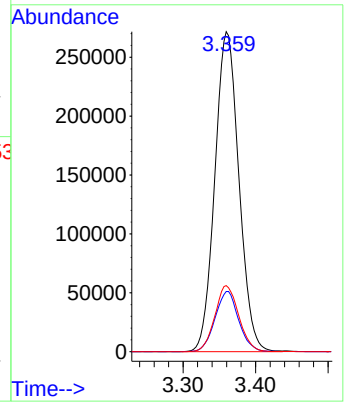


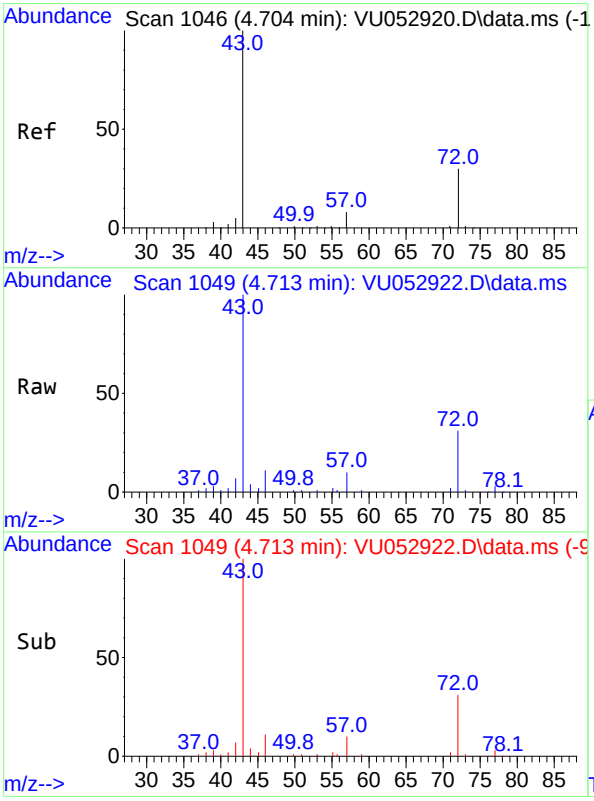
#18
Methyl tert-butyl Ether
Concen: 108.546 ug/L
RT: 3.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 73 Resp: 625917

Ion	Ratio	Lower	Upper
73	100		
43	18.5	14.2	21.2
57	20.5	16.3	24.5

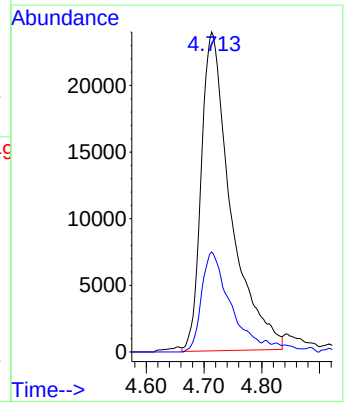


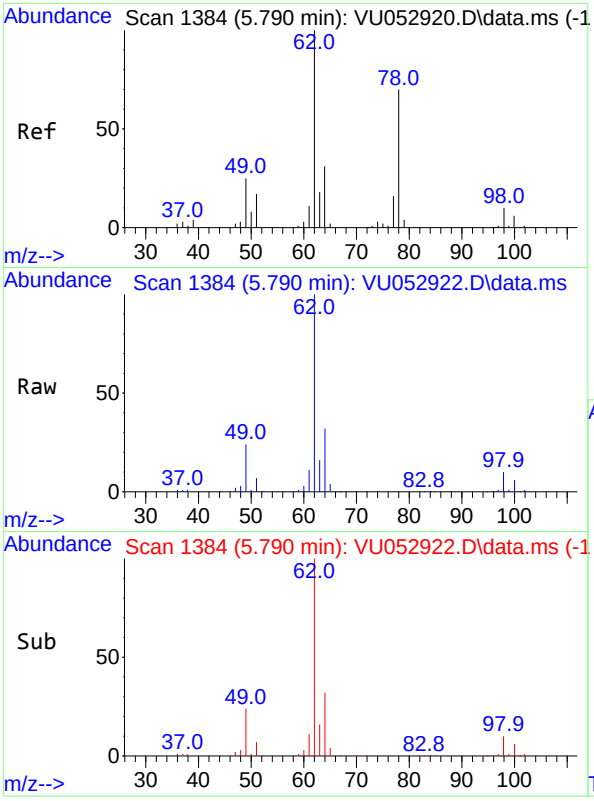


#22
2-Butanone
Concen: 59.804 ug/L
RT: 4.713 min Scan# 1049
Delta R.T. 0.010 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 43 Resp: 85151

Ion	Ratio	Lower	Upper
43	100		
72	30.0	15.5	46.5



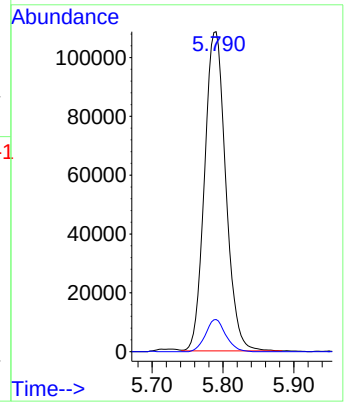


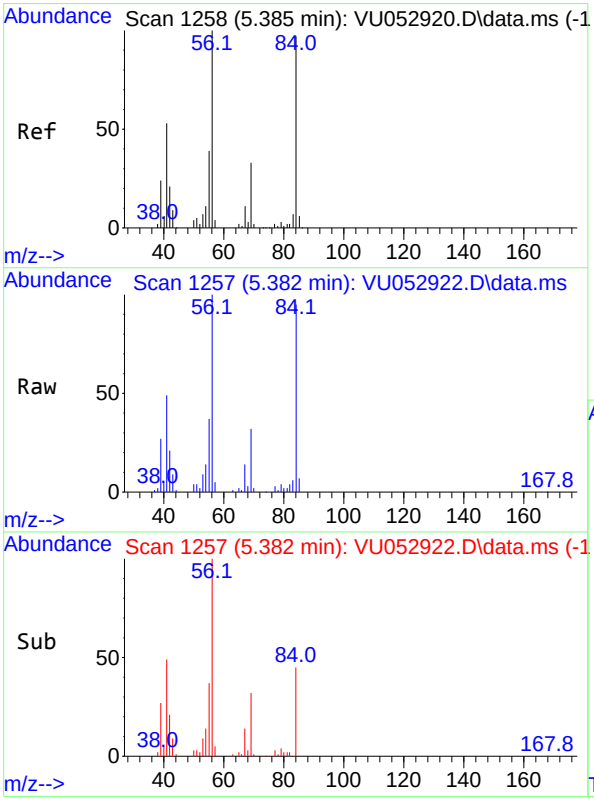
#27
1,2-Dichloroethane
Concen: 73.709 ug/L
RT: 5.790 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 62 Resp: 225294

Ion	Ratio	Lower	Upper
62	100		
98	10.0	7.6	11.4

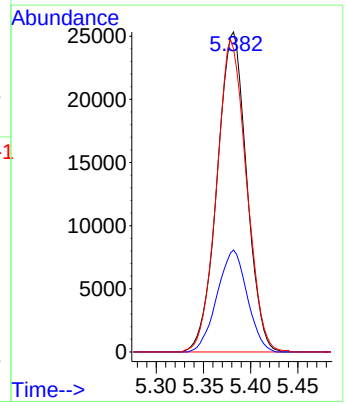


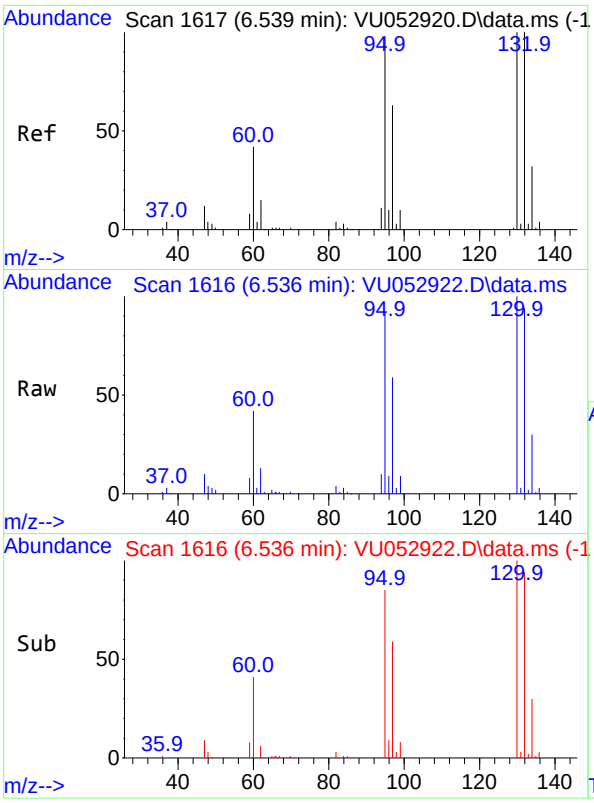


#29
Cyclohexane
Concen: 18.834 ug/L
RT: 5.382 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 56 Resp: 54871

Ion	Ratio	Lower	Upper
56	100		
69	32.5	26.6	40.0
84	98.7	77.0	115.4



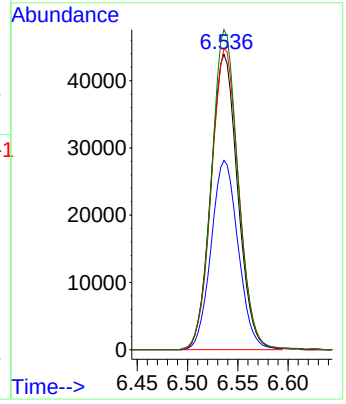


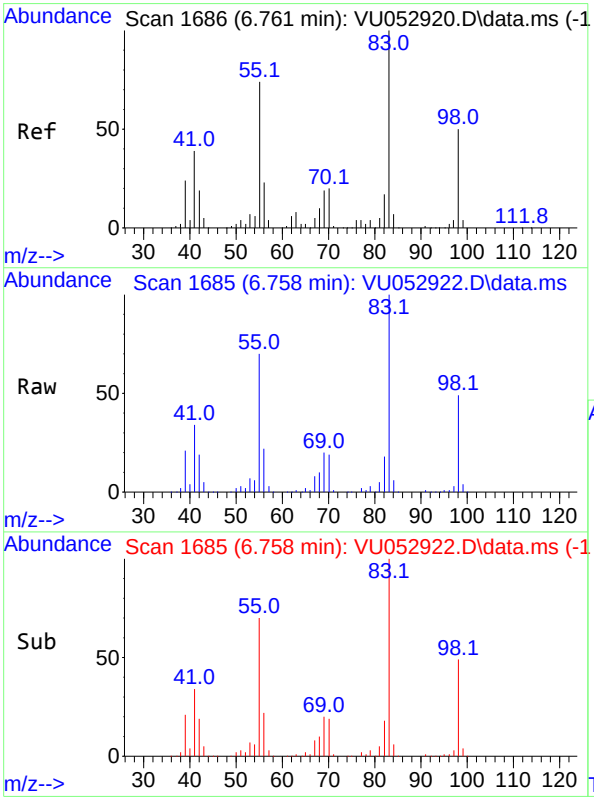
#34
Trichloroethene
Concen: 38.469 ug/L
RT: 6.536 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 95 Resp: 81830

Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.5	82.7
132	101.9	66.8	124.0
130	108.3	71.9	133.5

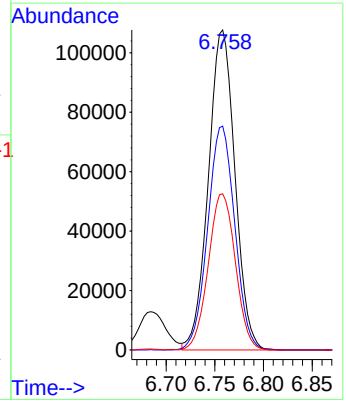


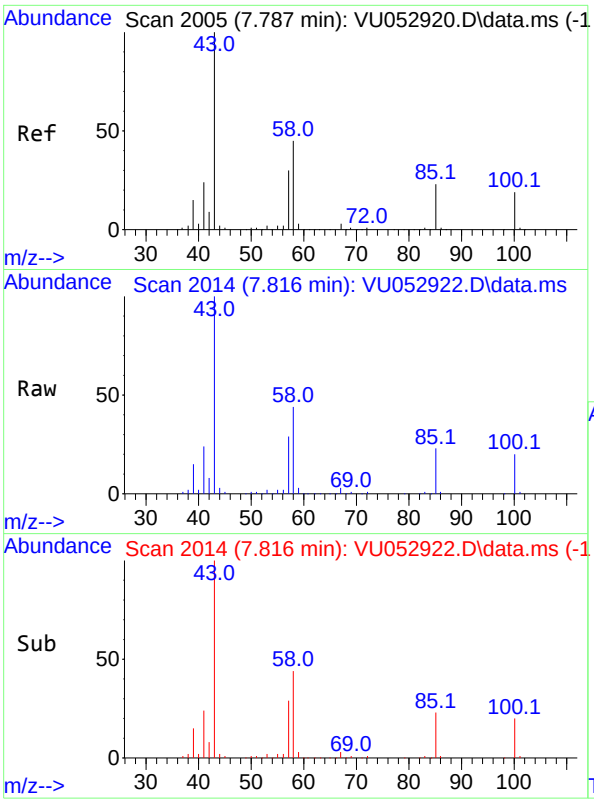


#35
Methylcyclohexane
Concen: 60.861 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. -0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 83 Resp: 204901

Ion	Ratio	Lower	Upper
83	100		
55	71.4	57.1	85.7
98	49.7	38.9	58.3



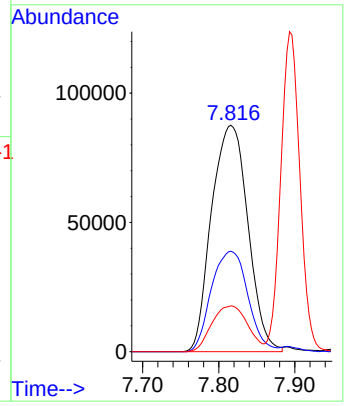


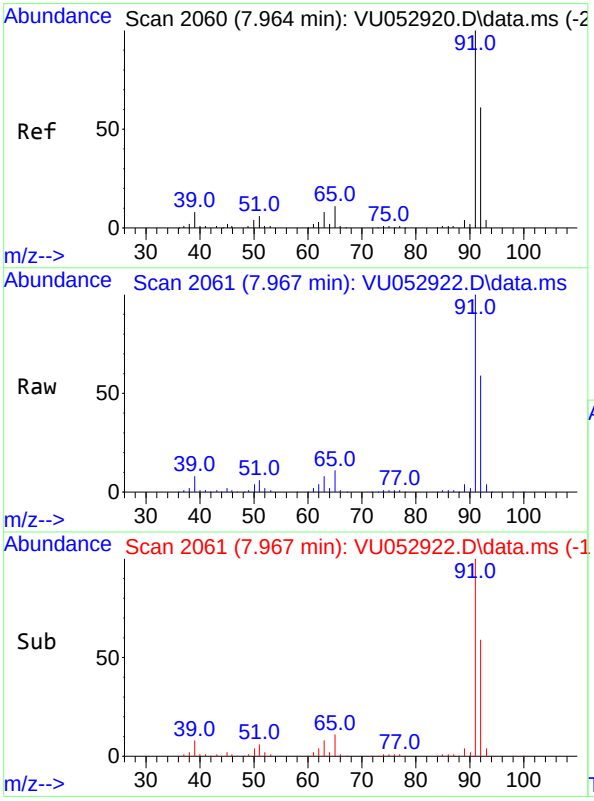
#40
4-Methyl-2-pentanone
Concen: 120.232 ug/L
RT: 7.816 min Scan# 2
Delta R.T. 0.029 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion: 43 Resp: 291449

Ion	Ratio	Lower	Upper
43	100		
58	44.4	35.4	53.2
100	19.9	16.0	24.0

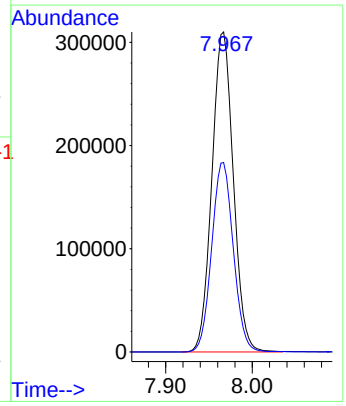


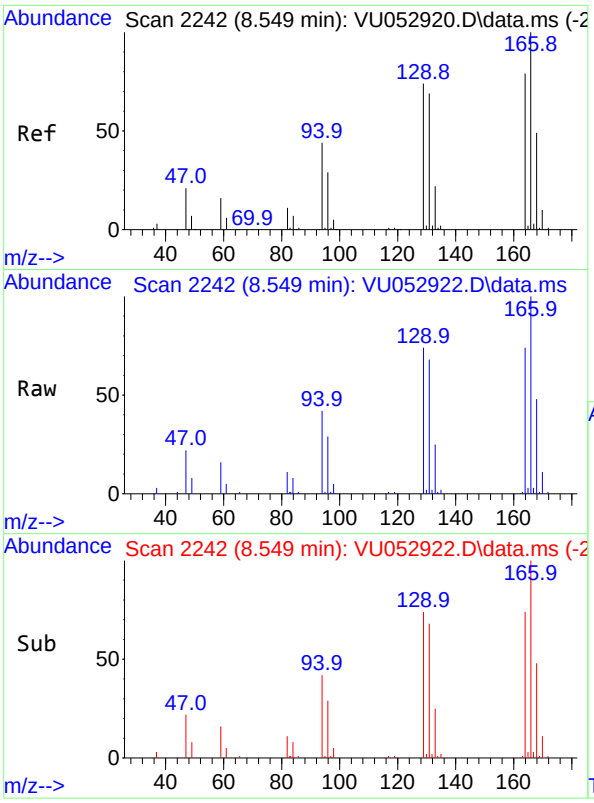


#42
Toluene
Concen: 62.176 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 91 Resp: 533294

Ion	Ratio	Lower	Upper
91	100		
92	59.2	42.6	79.0



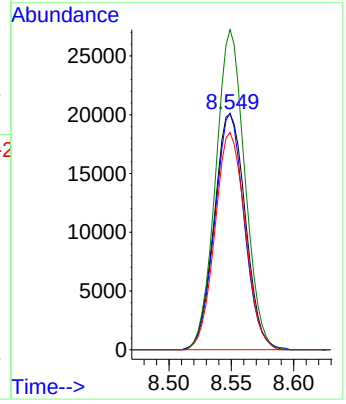


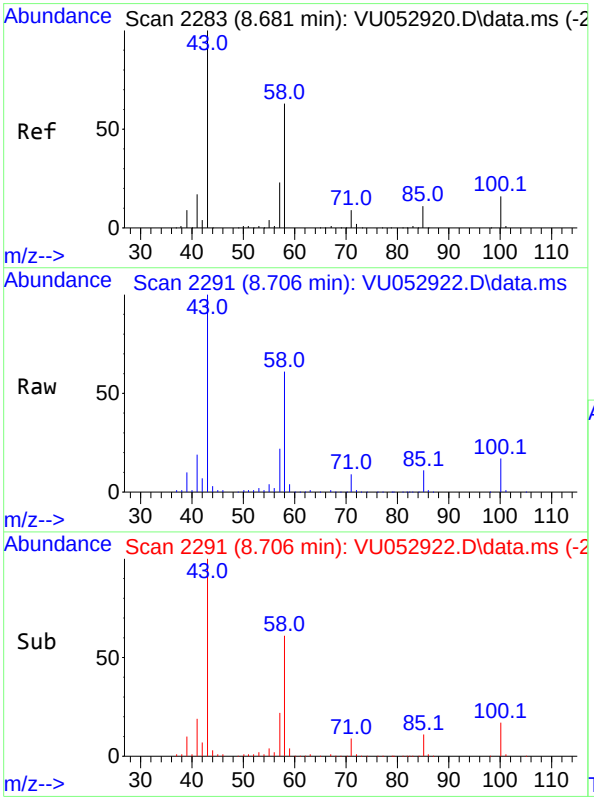
#46
Tetrachloroethene
Concen: 19.121 ug/L
RT: 8.549 min Scan# 2
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:164 Resp: 35024

Ion	Ratio	Lower	Upper
164	100		
129	100.3	64.8	120.3
131	92.0	61.2	113.6
166	135.7	89.2	165.8

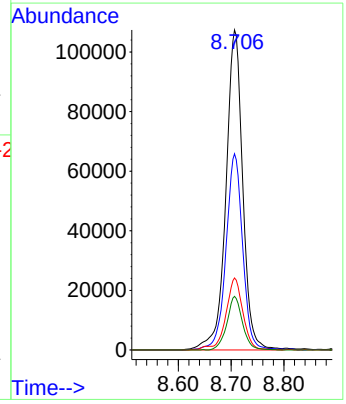


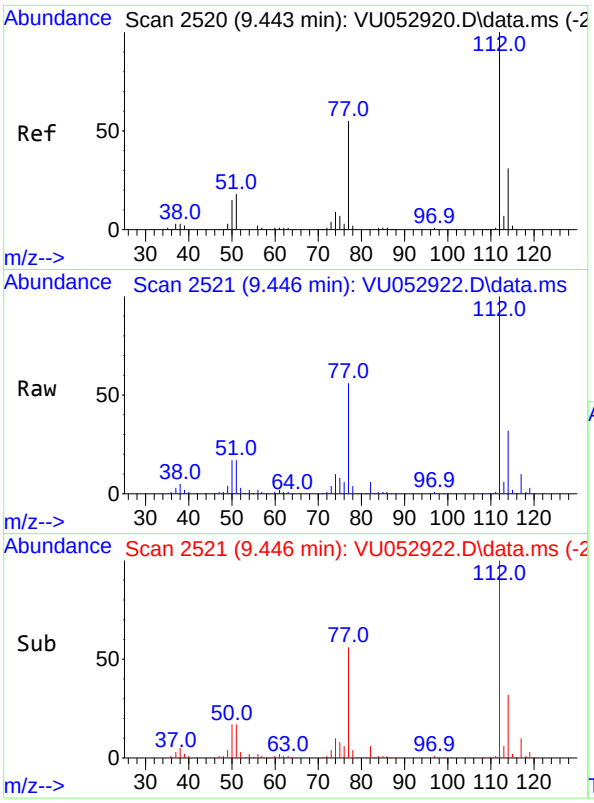


#48
2-Hexanone
Concen: 115.892 ug/L
RT: 8.706 min Scan# 2291
Delta R.T. 0.026 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 43 Resp: 237661

Ion	Ratio	Lower	Upper
43	100		
58	60.7	48.0	72.0
57	22.1	16.8	25.2
100	15.5	12.7	19.1



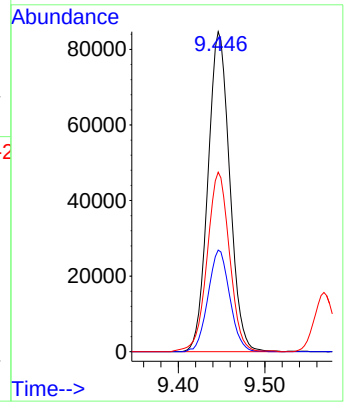


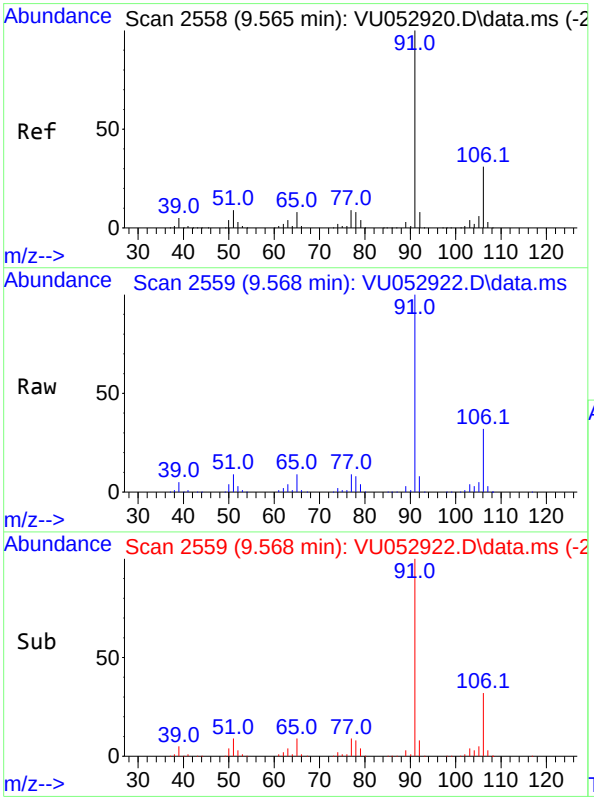
#51
Chlorobenzene
Concen: 25.023 ug/L
RT: 9.446 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:112 Resp: 147662

Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.8	42.4
77	56.1	45.9	68.9

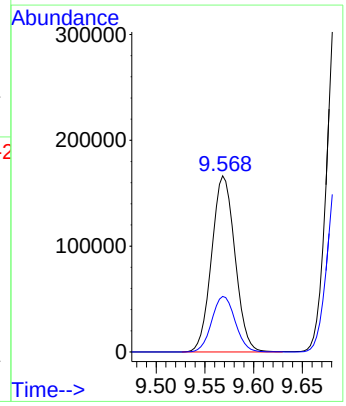


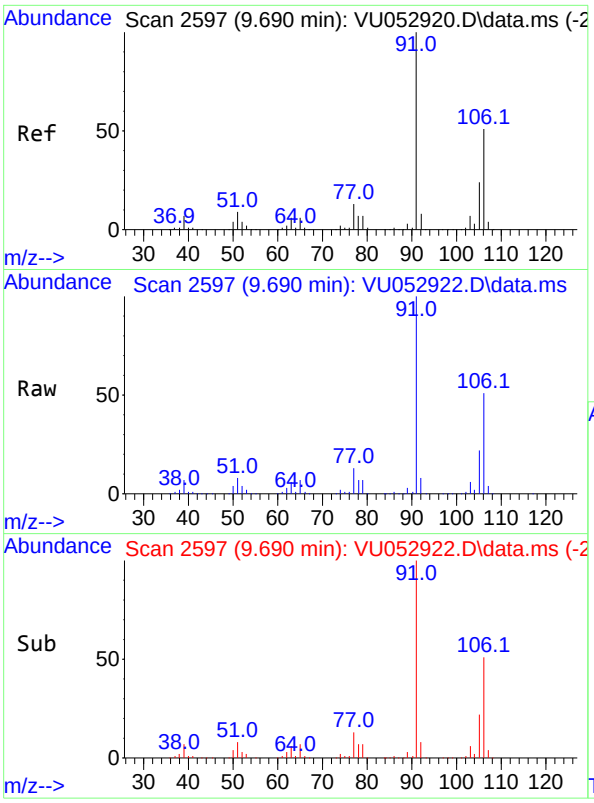


#52
Ethylbenzene
Concen: 30.209 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion: 91 Resp: 276905

Ion	Ratio	Lower	Upper
91	100		
106	31.5	22.0	40.8



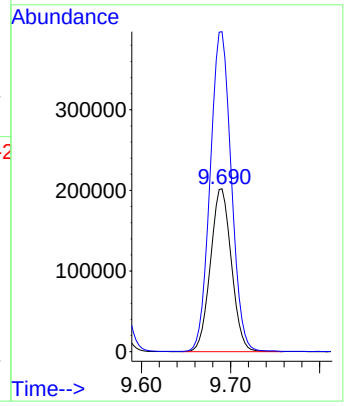


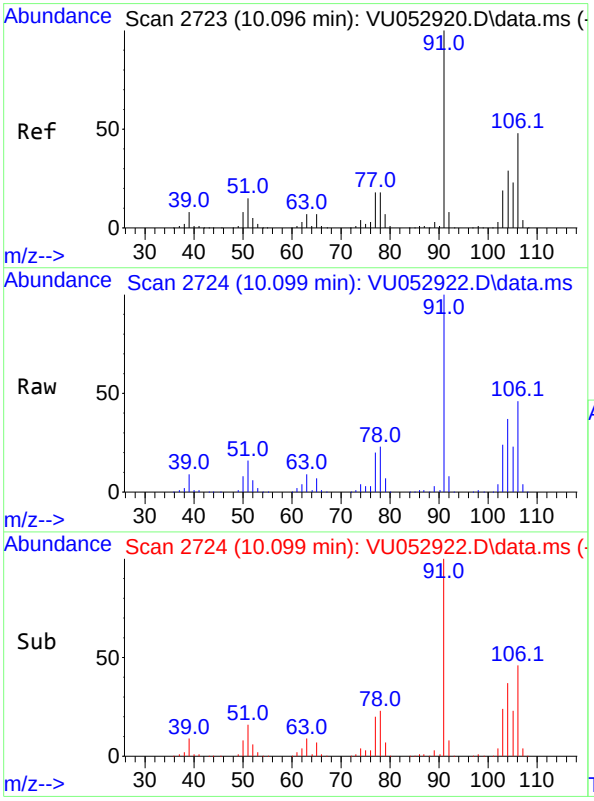
#53
m,p-Xylene
Concen: 88.718 ug/L
RT: 9.690 min Scan# 2
Delta R.T. -0.000 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:106 Resp: 329214

Ion	Ratio	Lower	Upper
106	100		
91	196.5	137.4	255.2

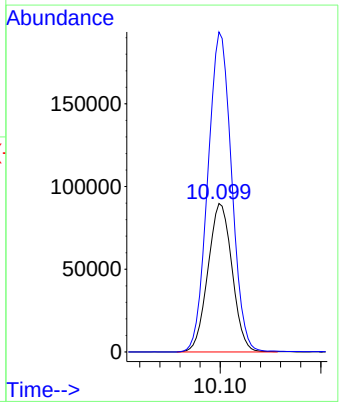


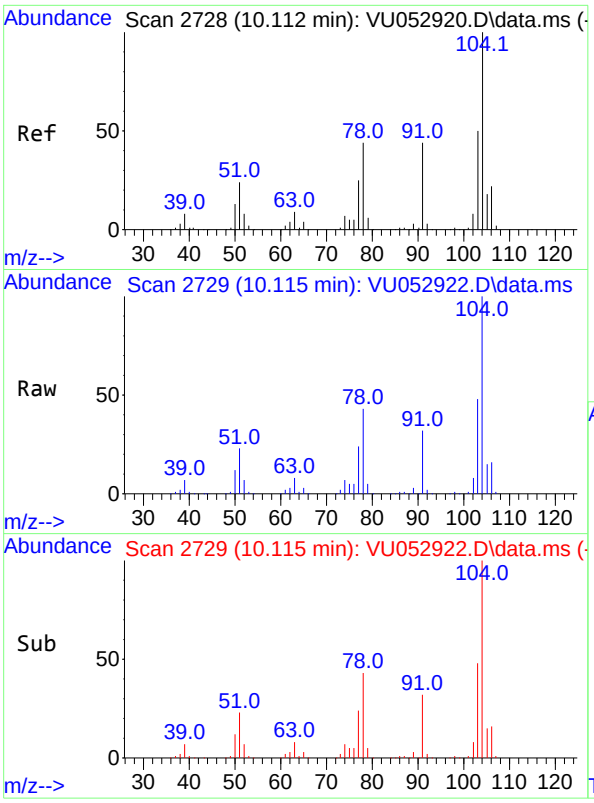


#54
o-xylene
Concen: 42.263 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:106 Resp: 149718

Ion	Ratio	Lower	Upper
106	100		
91	215.6	143.4	266.2



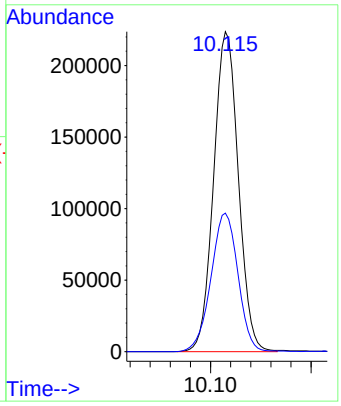


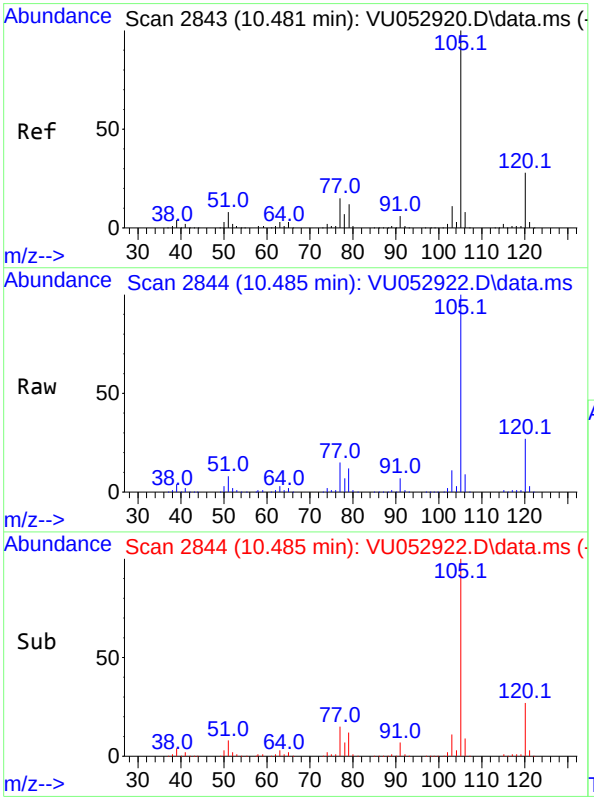
#55
Styrene
Concen: 62.790 ug/L
RT: 10.115 min Scan# 2
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:104 Resp: 381696

Ion	Ratio	Lower	Upper
104	100		
78	43.3	31.9	59.2

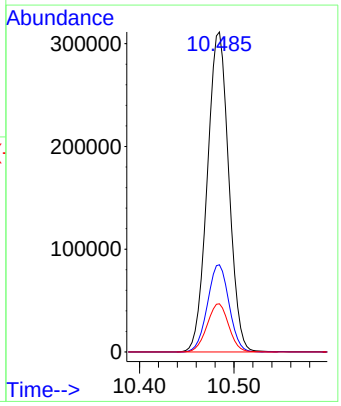


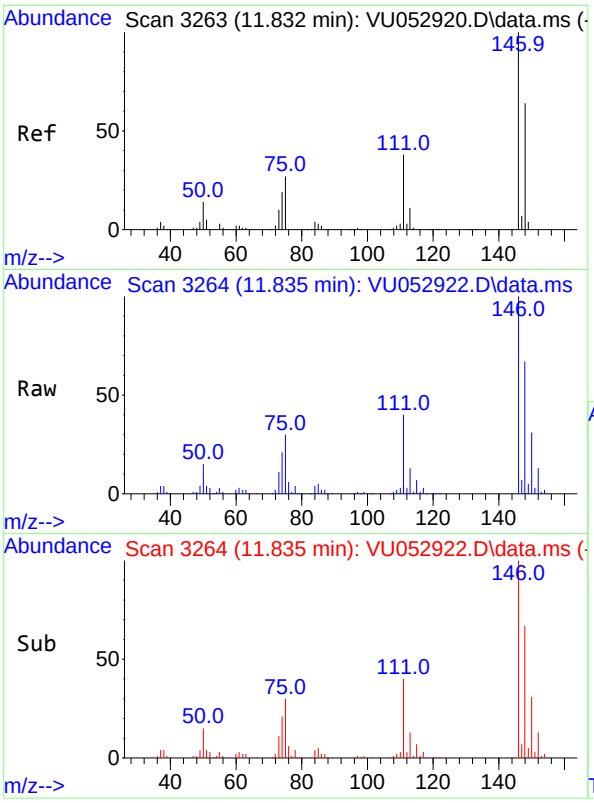


#61
Isopropylbenzene
Concen: 58.182 ug/L
RT: 10.485 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:105 Resp: 491353

Ion	Ratio	Lower	Upper
105	100		
120	27.4	21.4	32.2
77	15.2	12.2	18.2



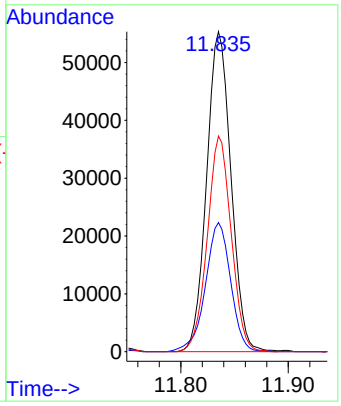


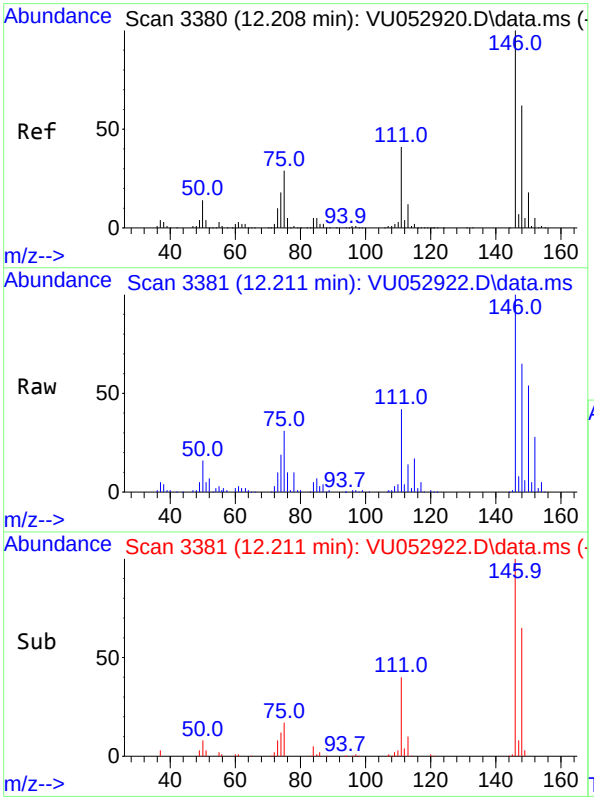
#65
1,4-Dichlorobenzene
Concen: 19.782 ug/L
RT: 11.835 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:146 Resp: 87257

Ion	Ratio	Lower	Upper
146	100		
111	40.4	26.7	49.7
148	67.4	45.6	84.6

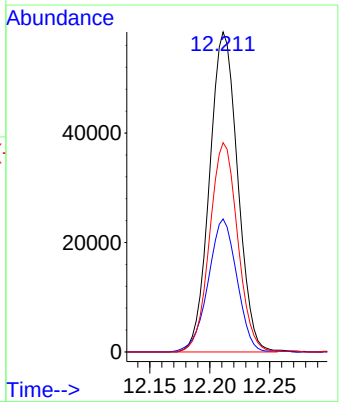


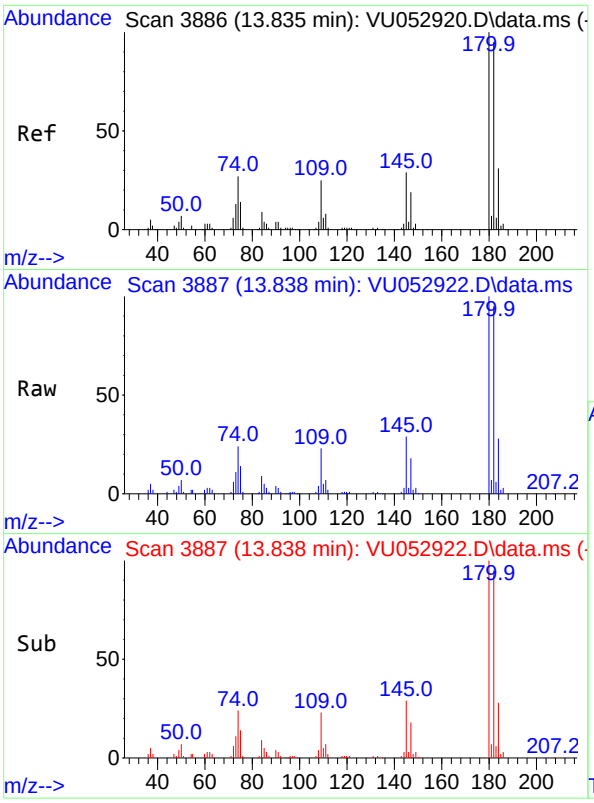


#67
1,2-Dichlorobenzene
Concen: 22.066 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:146 Resp: 95098

Ion	Ratio	Lower	Upper
146	100		
111	41.5	33.2	49.8
148	65.4	50.2	75.4



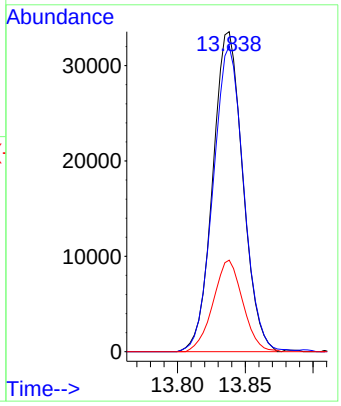


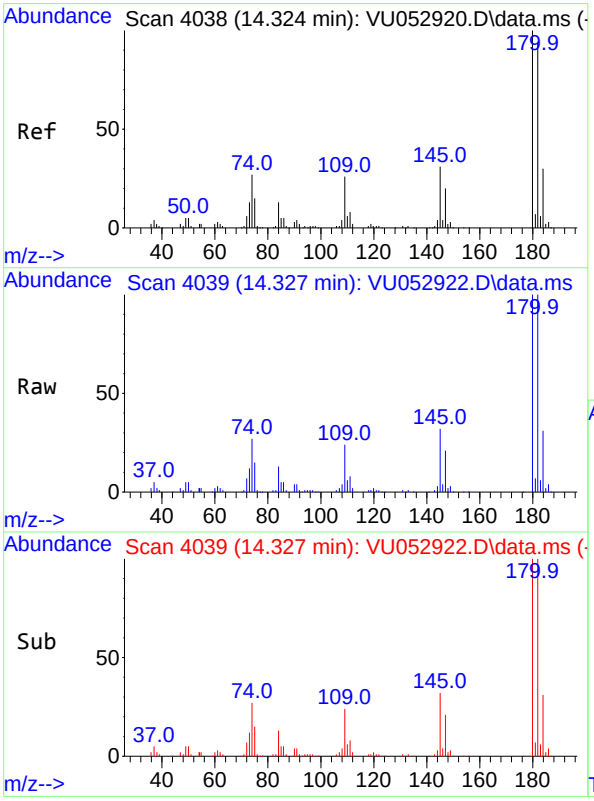
#70
1,2,4-trichlorobenzene
Concen: 19.557 ug/L
RT: 13.838 min Scan# 3
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Instrument :
MSVOA_U
ClientSampleId :
A44Q3

Tgt Ion:180 Resp: 51719

Ion	Ratio	Lower	Upper
180	100		
182	96.8	78.2	117.2
145	28.3	23.4	35.2





#72
1,2,3-Trichlorobenzene
Concen: 57.755 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. 0.003 min
Lab File: VU052922.D
Acq: 02 Feb 2023 13:51

Tgt Ion:180 Resp: 161416

Ion	Ratio	Lower	Upper
180	100		
182	98.0	77.5	116.3
145	32.2	24.2	36.4