

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121621\
 Data File : VU046414.D
 Acq On : 16 Dec 2021 12:38
 Operator : SY/MD
 Sample : M4997-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 17 01:51:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 17 01:49:40 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	144760	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	147565	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	69616	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	60779	50.969	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.940%
7) Chloroethane-d5	1.919	69	42821	46.770	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.540%
11) 1,1-Dichloroethene-d2	2.575	63	76388	35.684	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.360%
21) 2-Butanone-d5	4.636	46	76997	81.225	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	81.230%
24) Chloroform-d	5.067	84	98966	49.698	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.400%
26) 1,2-Dichloroethane-d4	5.707	65	66390	49.678	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.360%
32) Benzene-d6	5.729	84	200510	47.408	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.820%
36) 1,2-Dichloropropane-d6	6.694	67	60278	45.986	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.980%
41) Toluene-d8	7.899	98	170837	44.363	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.720%
43) trans-1,3-Dichloroprop...	8.179	79	28335	44.780	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.560%
47) 2-Hexanone-d5	8.636	63	58089	93.467	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.470%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	86830	43.680	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.360%
66) 1,2-Dichlorobenzene-d4	12.195	152	63680	47.498	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	38306	26.969	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	622	0.591	ug/L #	21
12) 1,1-Dichloroethene	2.585	96	3452	3.449	ug/L #	1
17) trans-1,2-Dichloroethene	3.359	96	8386	7.917	ug/L	96
19) 1,1-Dichloroethane	3.874	63	319469	165.876	ug/L	100
20) cis-1,2-Dichloroethene	4.671	96	310759	270.378	ug/L	98
27) 1,2-Dichloroethane	5.803	62	3036	1.912	ug/L #	73
30) 1,1,1-Trichloroethane	5.321	97	120627	66.594	ug/L	100
31) Carbon tetrachloride	5.321	117	14793	9.620	ug/L	98
33) Benzene	5.777	78	4310	0.965	ug/L	100
34) Trichloroethene	6.546	95	15283	12.989	ug/L	98
35) Methylcyclohexane	6.694	83	14785	8.104	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	6924	5.918	ug/L #	86
39) cis-1,3-Dichloropropene	7.572	75	1764	0.991	ug/L #	59
44) trans-1,3-Dichloropropene	8.182	75	1180	0.675	ug/L	87
46) Tetrachloroethene	8.555	164	6432	7.439	ug/L	98
49) Dibromochloromethane	8.555	129	6195	5.026	ug/L #	10
60) 1,2,3-Trichloropropane	11.813	75	8482	5.558	ug/L #	65

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Quant Title : VOC Analysis
QLast Update : Fri Dec 17 01:49:40 2021
Response via : Initial Calibration

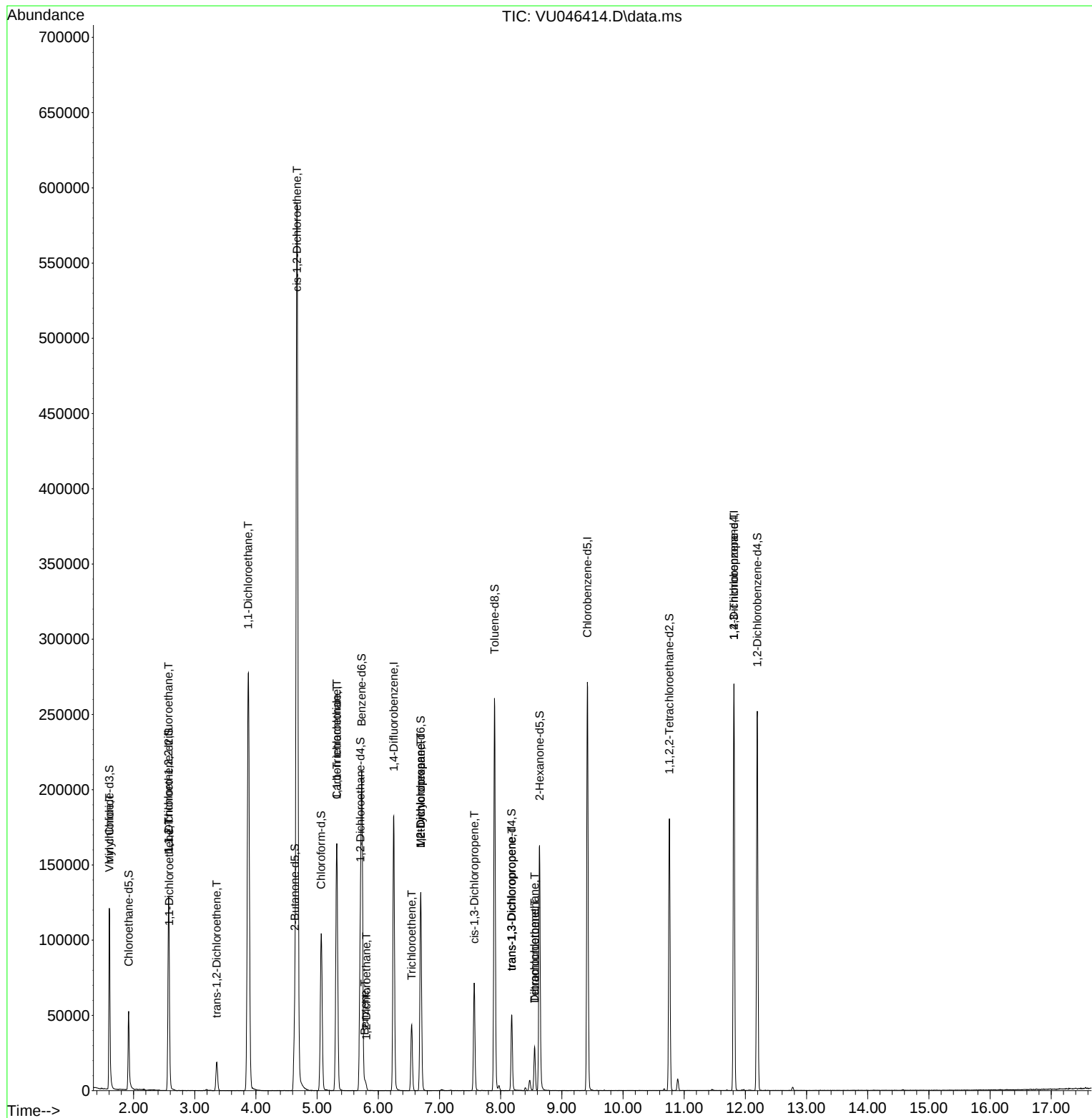
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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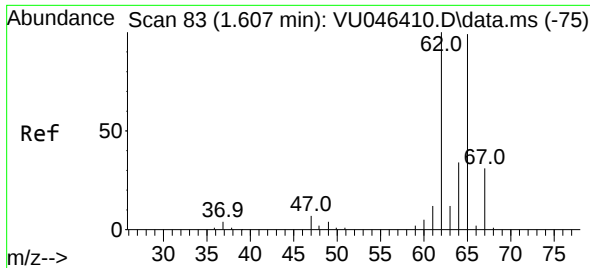
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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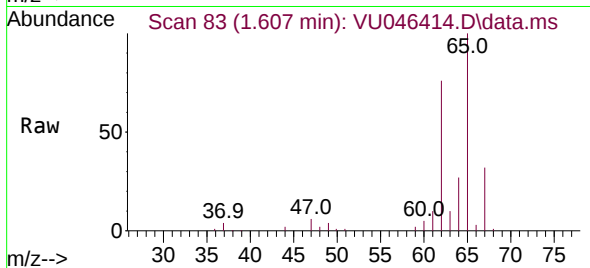
Quant Time: Dec 17 01:51:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
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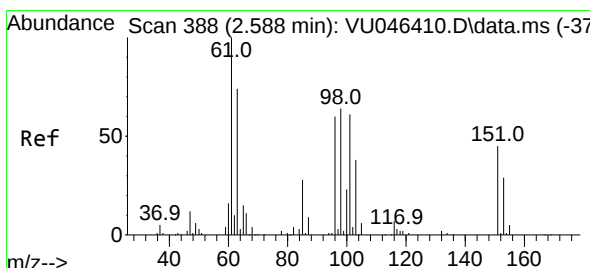
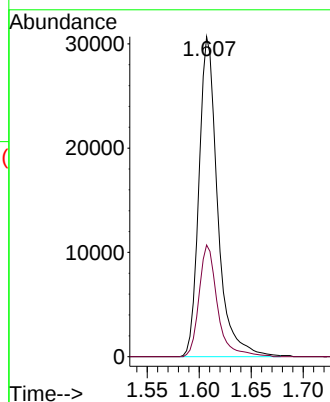
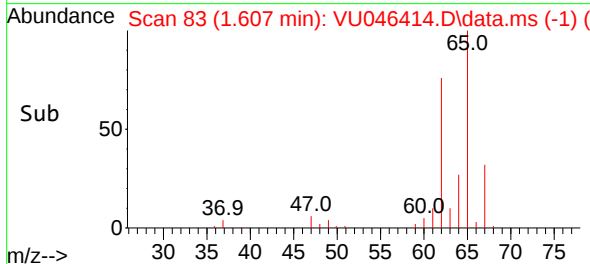


#5
 Vinyl chloride
 Concen: 26.969 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046414.D
 Acq: 16 Dec 2021 12:38

Instrument :
 MSVOA_U
 ClientSampleId :

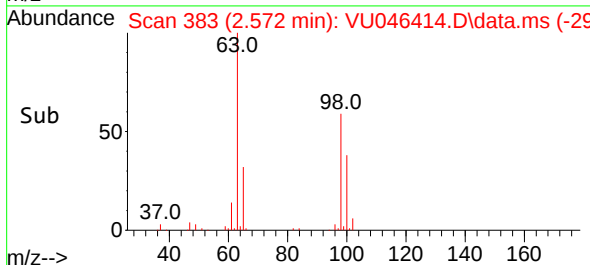
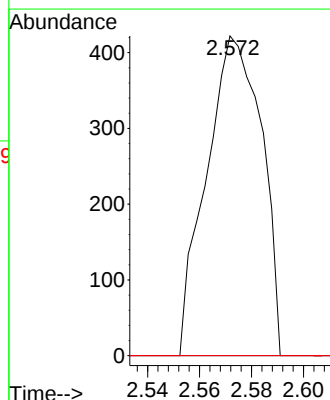
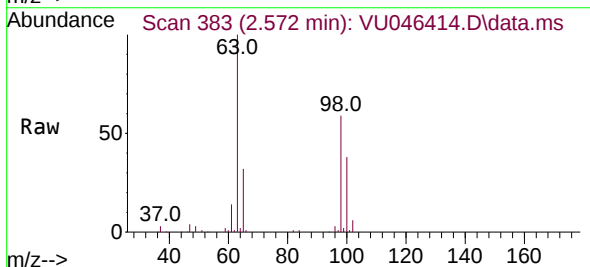


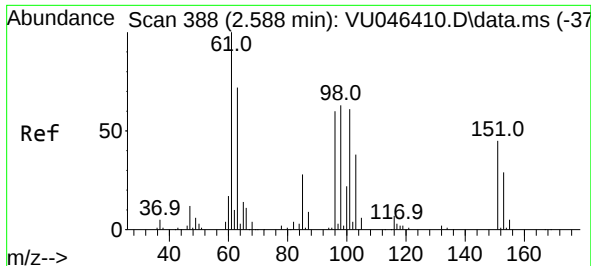
Tgt Ion: 62 Resp: 38306
 Ion Ratio Lower Upper
 62 100
 64 34.9 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.591 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.016 min
 Lab File: VU046414.D
 Acq: 16 Dec 2021 12:38

Tgt Ion: 101 Resp: 622
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 3.449 ug/L

RT: 2.585 min Scan# 388

Delta R.T. -0.003 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

ClientSampleId :

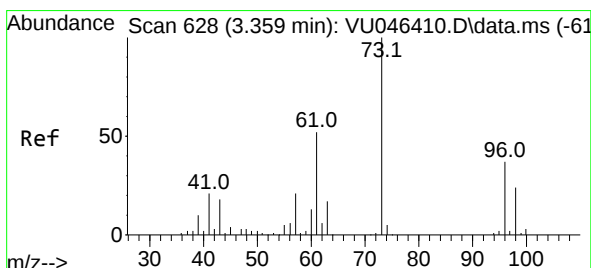
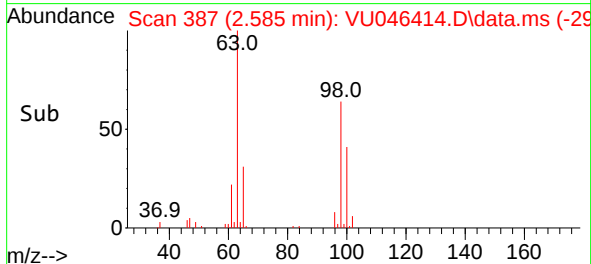
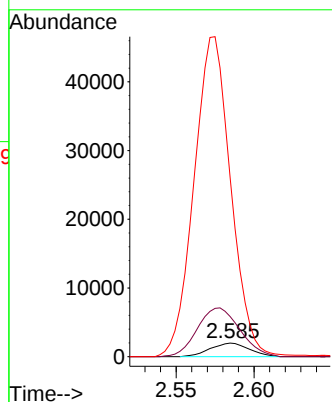
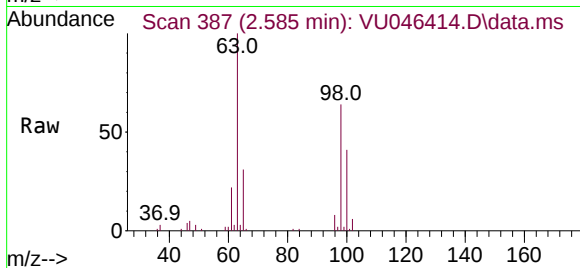
Tgt Ion: 96 Resp: 3452

Ion Ratio Lower Upper

96 100

61 295.1 118.6 220.2#

63 1319.2 93.0 172.8#



#17

trans-1,2-Dichloroethene

Concen: 7.917 ug/L

RT: 3.359 min Scan# 628

Delta R.T. 0.000 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

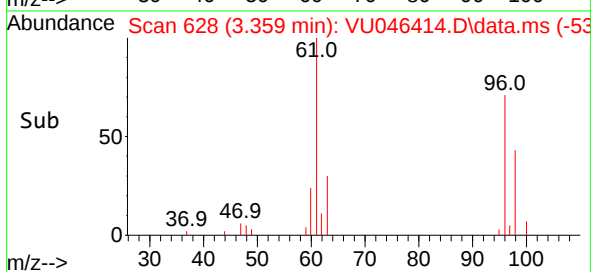
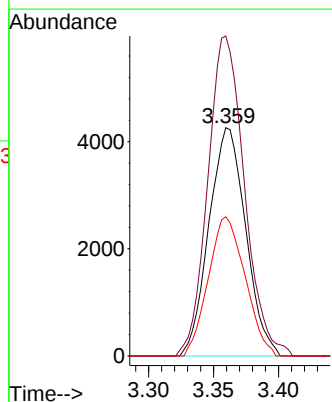
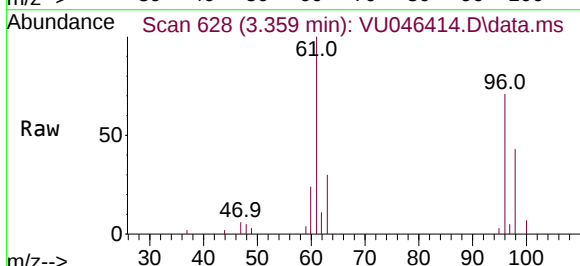
Tgt Ion: 96 Resp: 8386

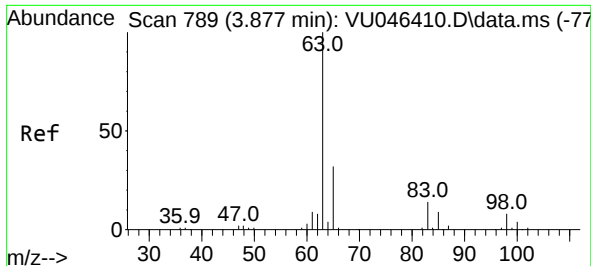
Ion Ratio Lower Upper

96 100

61 140.1 94.6 175.6

98 60.9 44.0 81.8





#19

1,1-Dichloroethane

Concen: 165.876 ug/L

RT: 3.874 min Scan# 788

Delta R.T. -0.003 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

ClientSampleId :

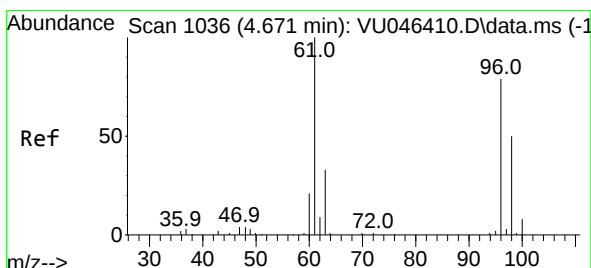
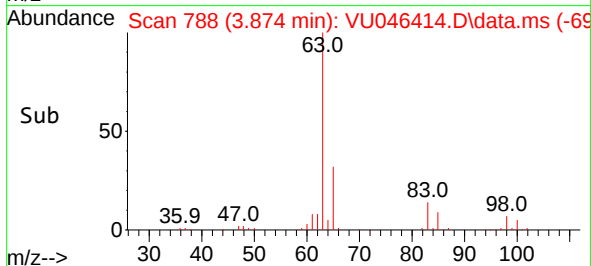
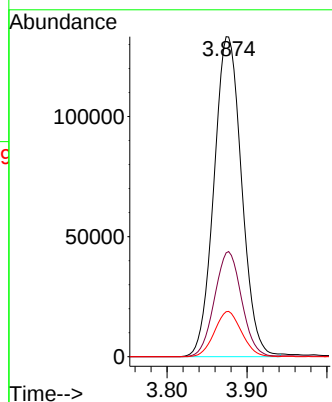
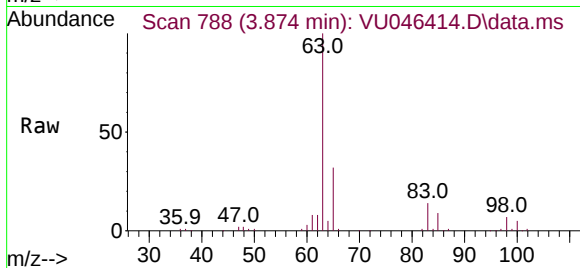
Tgt Ion: 63 Resp: 319469

Ion Ratio Lower Upper

63 100

65 32.5 22.8 42.4

83 14.0 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 270.378 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

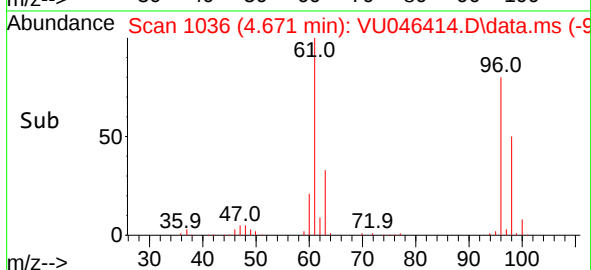
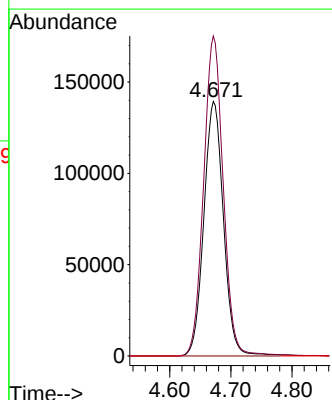
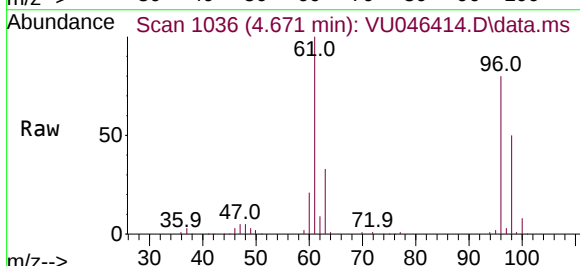
Tgt Ion: 96 Resp: 310759

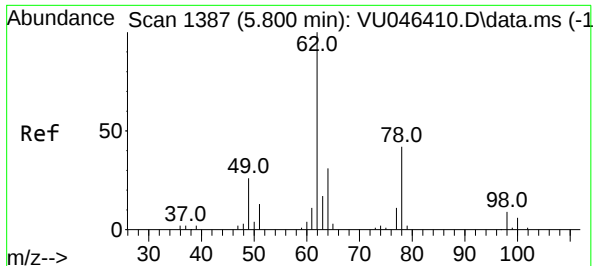
Ion Ratio Lower Upper

96 100

61 125.7 86.8 161.2

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 1.912 ug/L

RT: 5.803 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

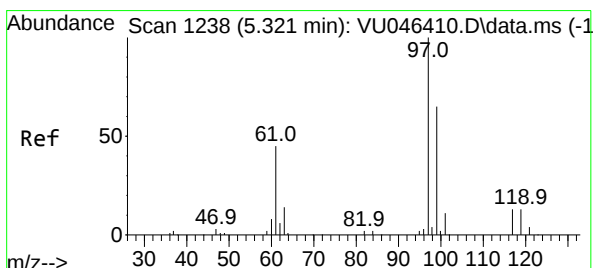
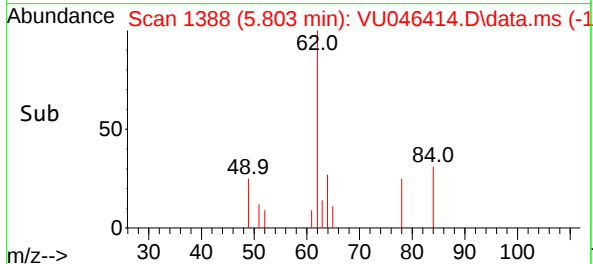
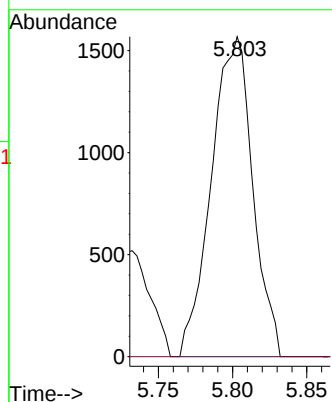
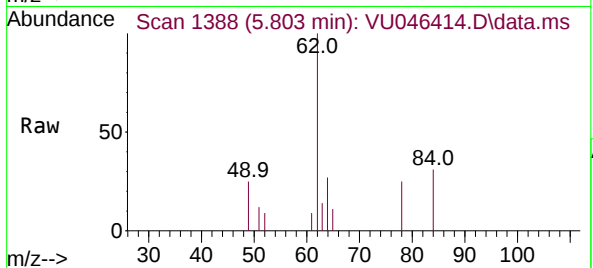
ClientSampleId :

Tgt Ion: 62 Resp: 3036

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#30

1,1,1-Trichloroethane

Concen: 66.594 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

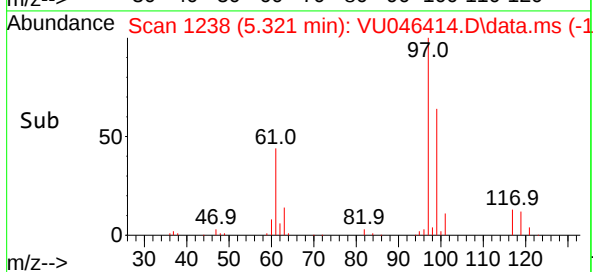
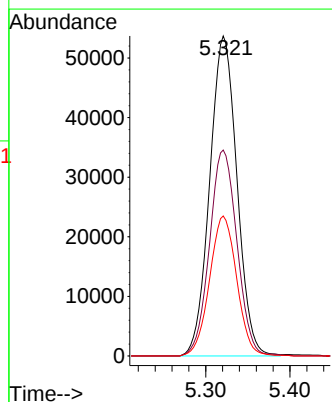
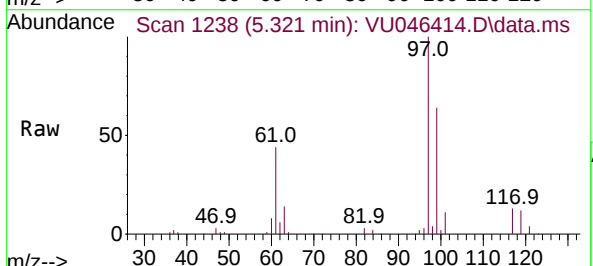
Tgt Ion: 97 Resp: 120627

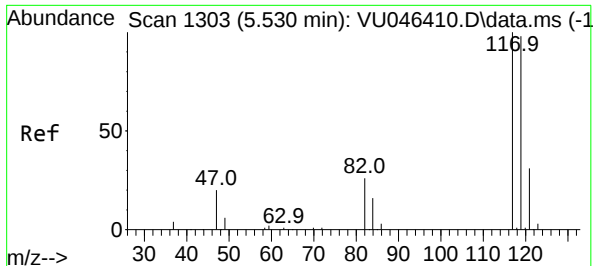
Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.6

61 43.5 34.4 51.6

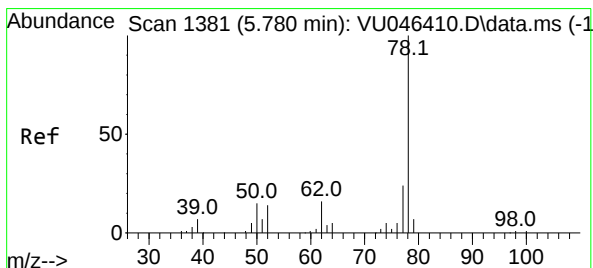
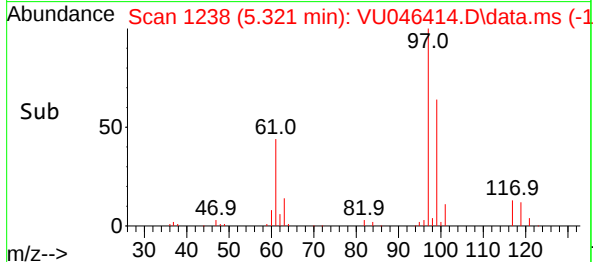
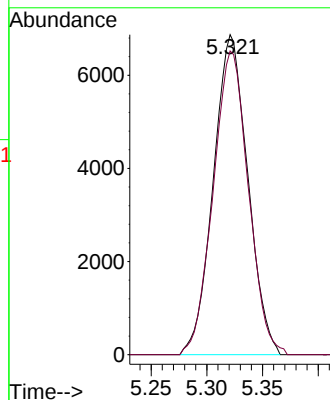
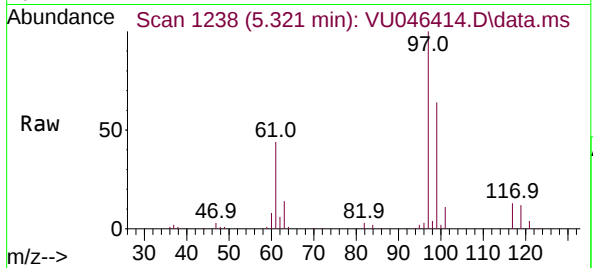




#31
Carbon tetrachloride
Concen: 9.620 ug/L
RT: 5.321 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU046414.D
Acq: 16 Dec 2021 12:38

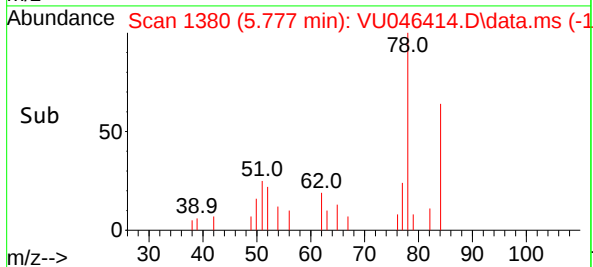
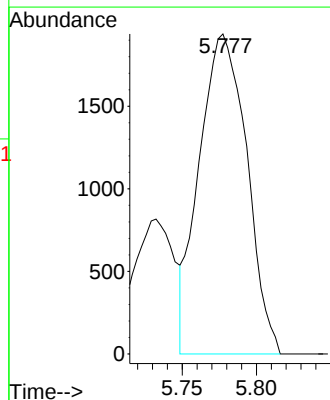
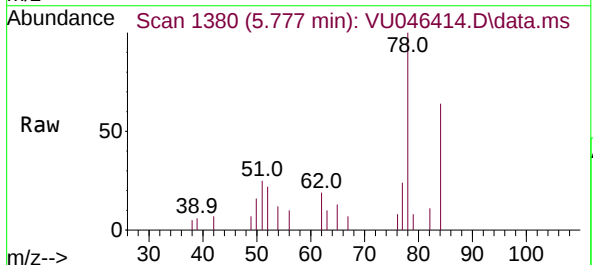
Instrument :
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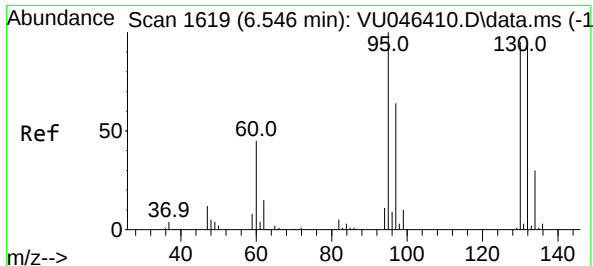
Tgt Ion:117 Resp: 14793
Ion Ratio Lower Upper
117 100
119 96.7 75.7 113.5



#33
Benzene
Concen: 0.965 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU046414.D
Acq: 16 Dec 2021 12:38

Tgt Ion: 78 Resp: 4310





#34

Trichloroethene

Concen: 12.989 ug/L

RT: 6.546 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 15283

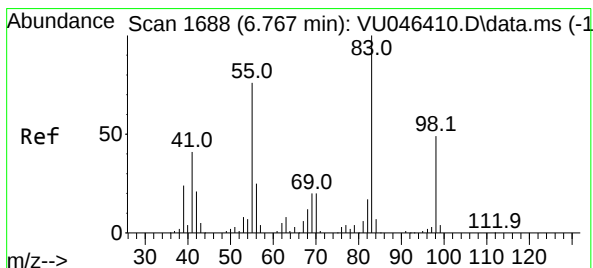
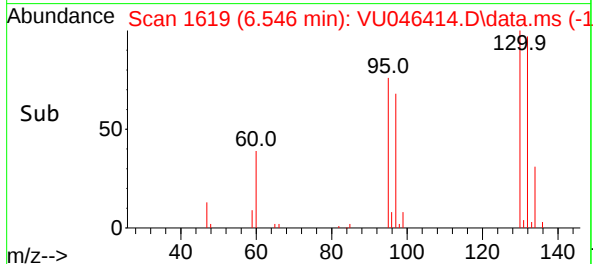
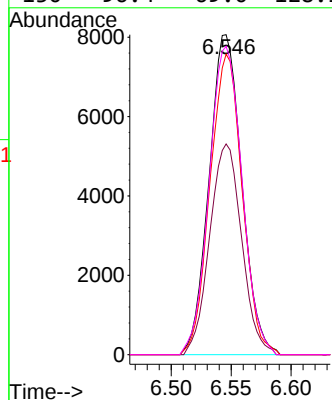
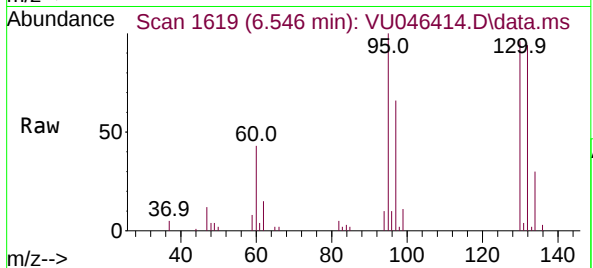
Ion Ratio Lower Upper

95 100

97 65.8 44.1 81.9

132 93.9 66.8 124.0

130 96.4 69.0 128.1



#35

Methylcyclohexane

Concen: 8.104 ug/L

RT: 6.694 min Scan# 1665

Delta R.T. -0.074 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

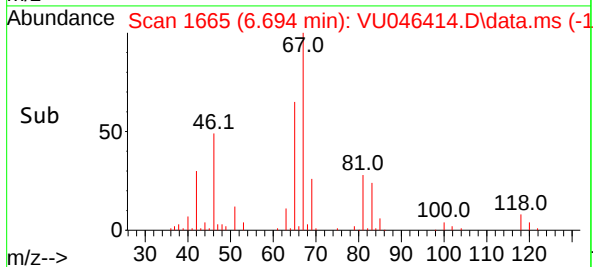
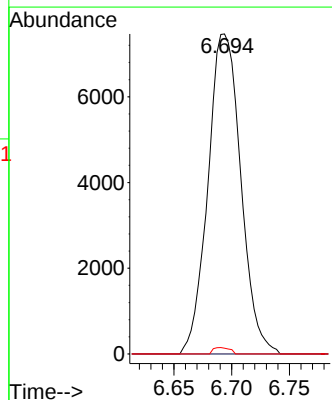
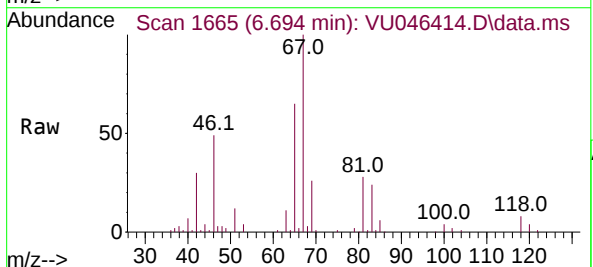
Tgt Ion: 83 Resp: 14785

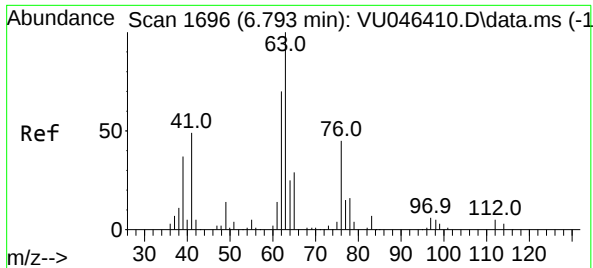
Ion Ratio Lower Upper

83 100

55 0.0 57.8 86.6#

98 1.0 38.4 57.6#





#37

1,2-Dichloropropane

Concen: 5.918 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.099 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

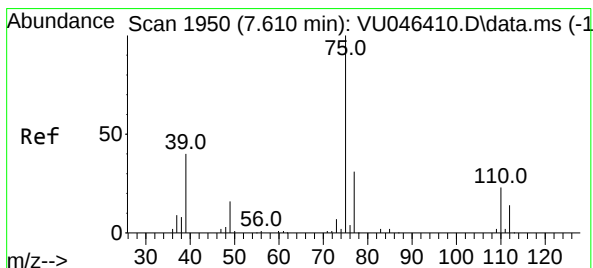
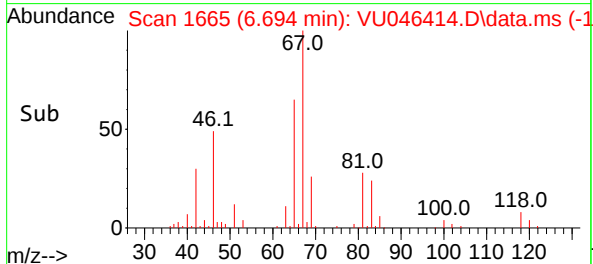
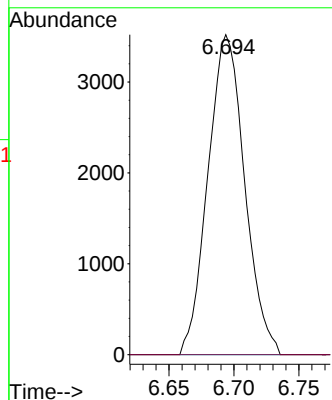
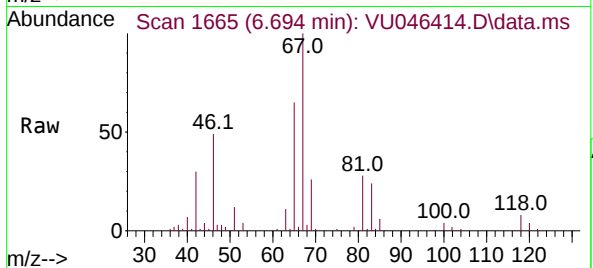
ClientSampleId :

Tgt Ion: 63 Resp: 6924

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.991 ug/L

RT: 7.572 min Scan# 1938

Delta R.T. -0.038 min

Lab File: VU046414.D

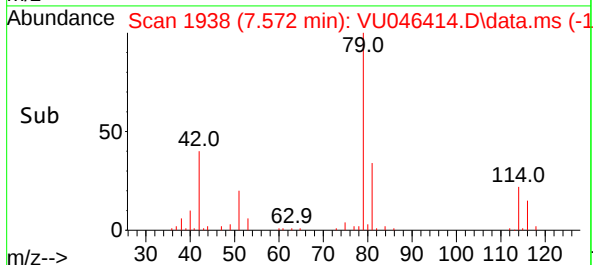
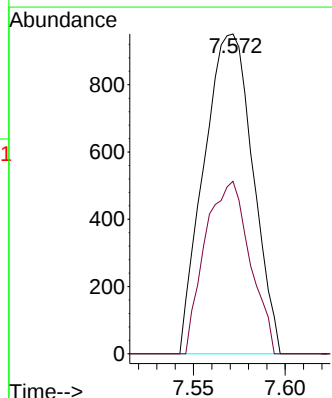
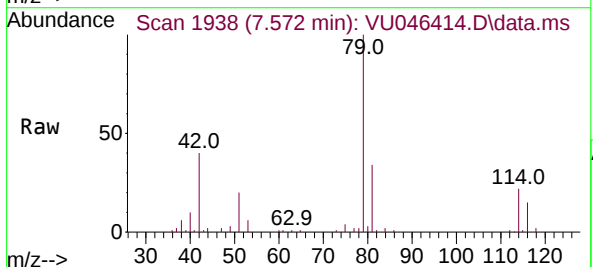
Acq: 16 Dec 2021 12:38

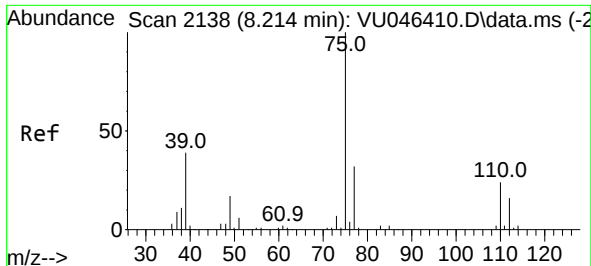
Tgt Ion: 75 Resp: 1764

Ion Ratio Lower Upper

75 100

77 53.9 21.8 40.6#

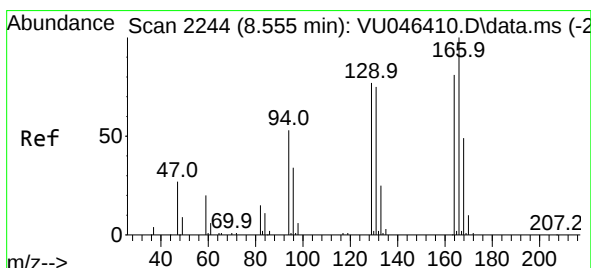
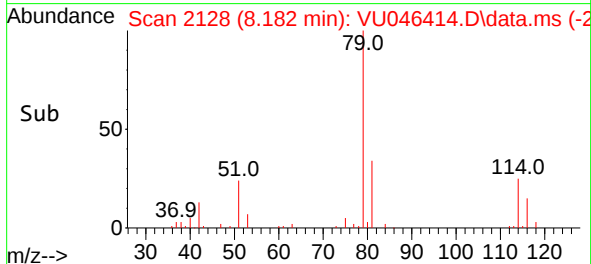
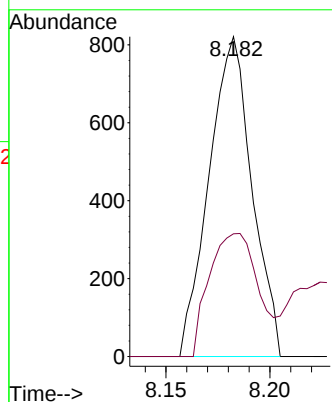
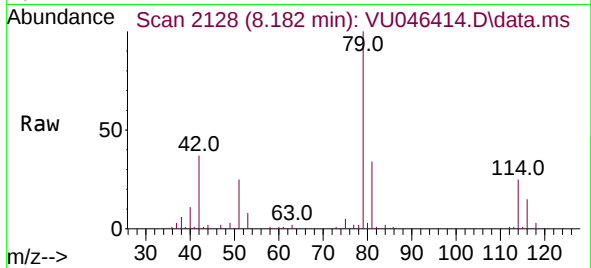




#44
trans-1,3-Dichloropropene
Concen: 0.675 ug/L
RT: 8.182 min Scan# 2138
Delta R.T. -0.032 min
Lab File: VU046414.D
Acq: 16 Dec 2021 12:38

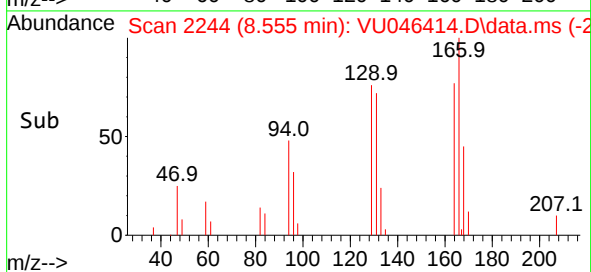
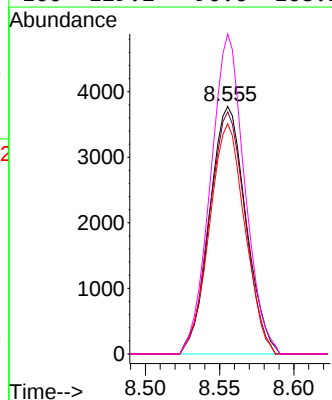
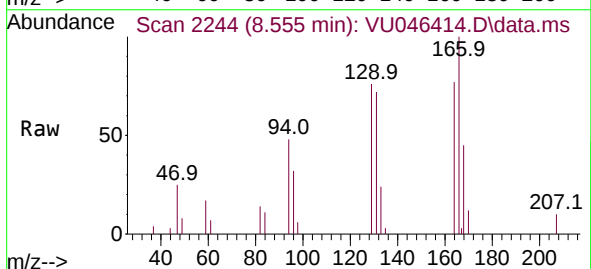
Instrument :
MSVOA_U
ClientSampleId :

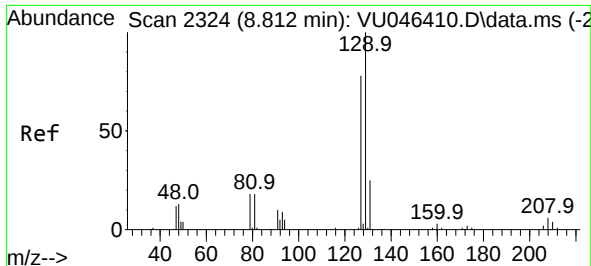
Tgt Ion: 75 Resp: 1180
Ion Ratio Lower Upper
75 100
77 38.4 21.7 40.3



#46
Tetrachloroethene
Concen: 7.439 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU046414.D
Acq: 16 Dec 2021 12:38

Tgt Ion: 164 Resp: 6432
Ion Ratio Lower Upper
164 100
129 97.8 71.1 132.1
131 93.0 67.8 126.0
166 129.2 90.6 168.2





#49

Dibromochloromethane

Concen: 5.026 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min MSVOA_U

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Instrument :

MSVOA_U

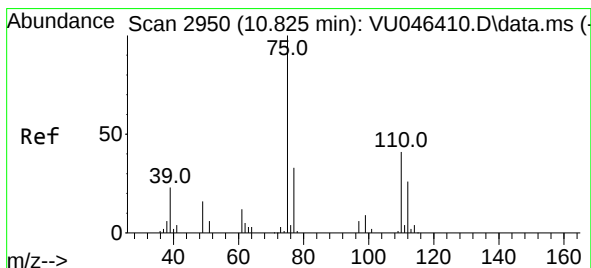
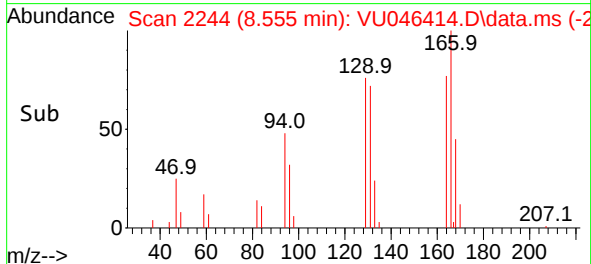
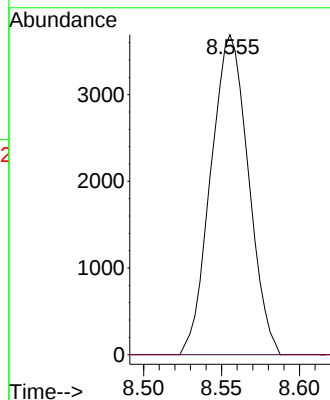
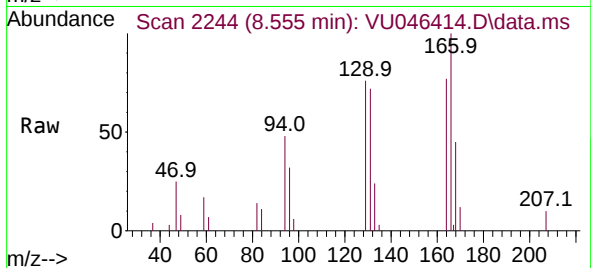
ClientSampleId :

Tgt Ion:129 Resp: 6195

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



#60

1,2,3-Trichloropropane

Concen: 5.558 ug/L

RT: 11.813 min Scan# 3257

Delta R.T. 0.987 min

Lab File: VU046414.D

Acq: 16 Dec 2021 12:38

Tgt Ion: 75 Resp: 8482

Ion Ratio Lower Upper

75 100

77 32.1 26.4 39.6

110 1.6 32.4 48.6#

