

Data File : VU029054.D
Acq On : 07 Jan 2019 12:52
Operator : MD/SY
Sample : K1048-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0950

Quant Time: Jan 08 01:41:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	191860	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.13	117	238405	50.00	ug/L	0.05
60) 1,4-Dichlorobenzene-d4	11.51	152	142379	50.00	ug/L	0.03

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	73411	47.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.46%
7) Chloroethane-d5	1.67	69	57955	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.56%
11) 1,1-Dichloroethene-d2	2.27	63	95289	36.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.68%
21) 2-Butanone-d5	4.18	46	103697	96.23	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.23%
24) Chloroform-d	4.65	84	130816	54.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.18%
26) 1,2-Dichloroethane-d4	5.31	65	73380	49.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.44%
32) Benzene-d6	5.34	84	266451	39.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.12%
36) 1,2-Dichloropropane-d6	6.33	67	87494	38.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	76.48%
41) Toluene-d8	7.57	98	239433	39.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.46%#
43) trans-1,3-Dichloropropene-	7.85	79	40029	39.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.08%
47) 2-Hexanone-d5	8.31	63	76340	70.25	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	70.25%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	127076	40.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	80.06%
64) 1,2-Dichlorobenzene-d4	11.90	152	148680	51.63	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.26%

Target Compounds

						Qvalue
8) Chloroethane	1.40	64	944	0.880	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	801	0.644	ug/L #	20
12) 1,1-Dichloroethene	2.27	96	787	0.640	ug/L #	1
13) Acetone	2.32	43	21169	19.276	ug/L	99
16) Methylene chloride	2.70	84	871	0.574	ug/L	94
25) Chloroform	4.67	83	336826	136.595	ug/L	99
27) 1,2-Dichloroethane	5.40	62	225669	123.142	ug/L #	74
29) Cyclohexane	4.99	56	17133	5.400	ug/L	98
31) Carbon tetrachloride	5.13	117	125396	61.625	ug/L	99
34) Trichloroethene	6.19	95	1395	0.761	ug/L	93
35) Methylcyclohexane	6.41	83	7135	2.338	ug/L #	79
38) Bromodichloromethane	6.76	83	3412	1.452	ug/L	94
39) cis-1,3-Dichloropropene	7.22	75	2049	0.677	ug/L #	58
42) Toluene	7.64	91	9631	1.252	ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	1464	0.543	ug/L	92
46) Tetrachloroethene	8.23	164	2599	1.842	ug/L	89
48) 2-Hexanone	8.31	43	7864	3.360	ug/L #	67

Data File : VU029054.D
Acq On : 07 Jan 2019 12:52
Operator : MD/SY
Sample : K1048-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0950

Quant Time: Jan 08 01:41:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration

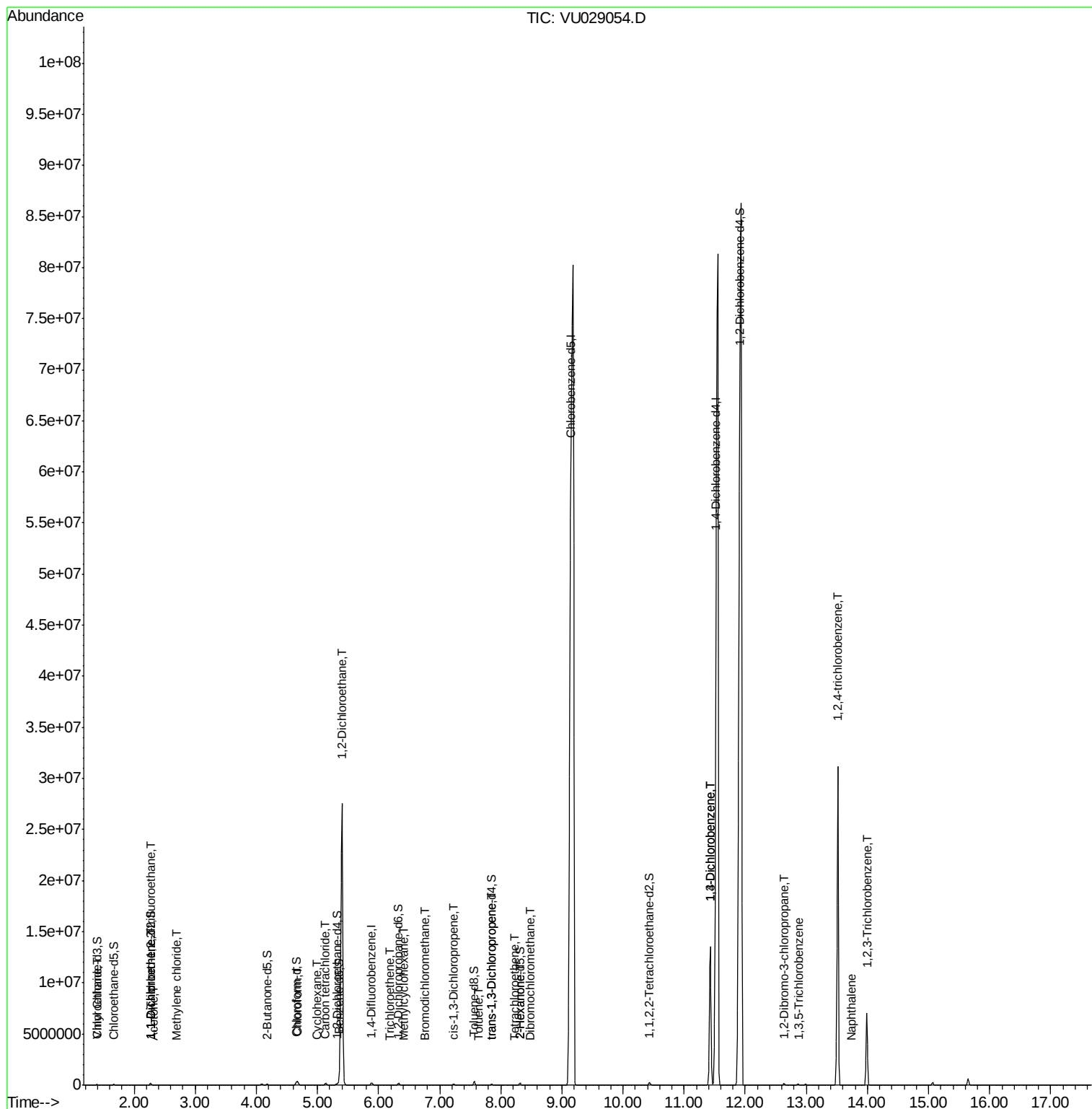
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.48	129	932	0.516	ug/L	98
62) 1,3-Dichlorobenzene	11.43	146	6324610	1398.361	ug/L	98
63) 1,4-Dichlorobenzene	11.43	146	6324610	1357.259	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.63	75	25036	30.763	ug/L #	2
67) 1,3,5-Trichlorobenzene	12.89	180	4595	1.378	ug/L	96
68) 1,2,4-trichlorobenzene	13.52	180	10209418	3655.985	ug/L	99
69) Naphthalene	13.74	128	4582	0.473	ug/L	96
70) 1,2,3-Trichlorobenzene	13.99	180	2209635	733.810	ug/L	99

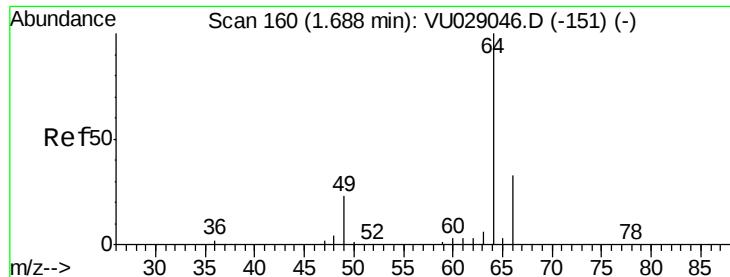
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU029054.D
Acq On : 07 Jan 2019 12:52
Operator : MD/SY
Sample : K1048-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0950

Quant Time: Jan 08 01:41:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.880 ug/L

RT: 1.40 min Scan# 69

Delta R.T. -0.29 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

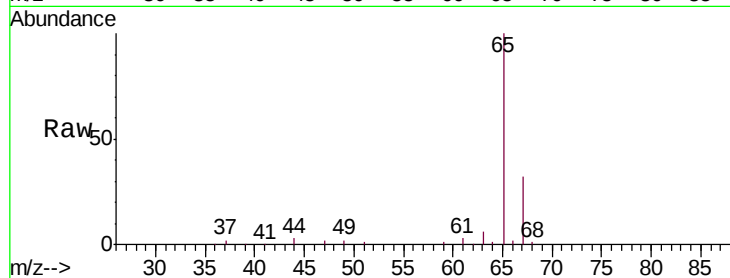
C0950

Tgt Ion: 64 Resp: 944

Ion Ratio Lower Upper

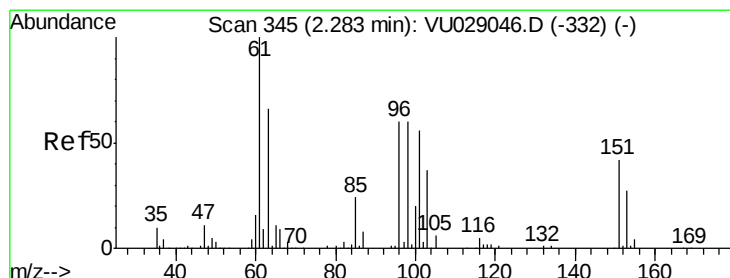
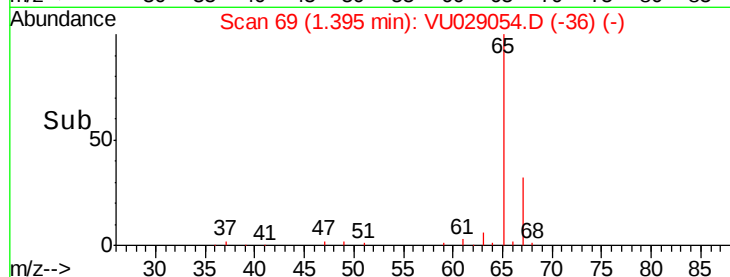
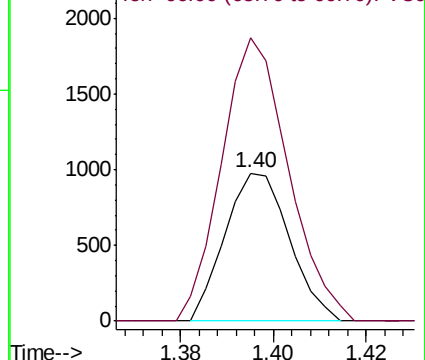
64 100

66 190.8 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU029046.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU029046.D (-151) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.644 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

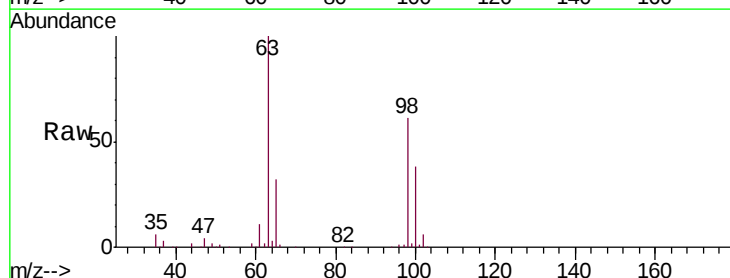
Tgt Ion: 101 Resp: 801

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

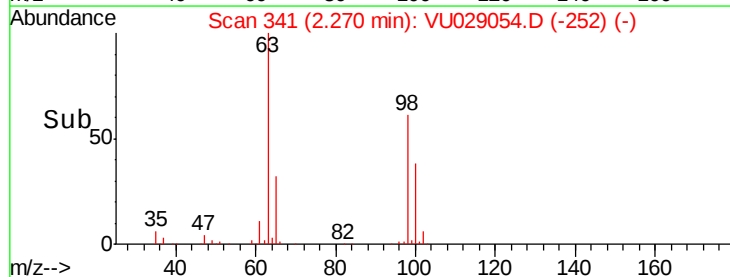
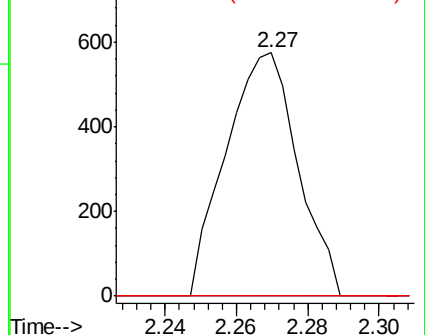
151 0.0 59.4 89.0#

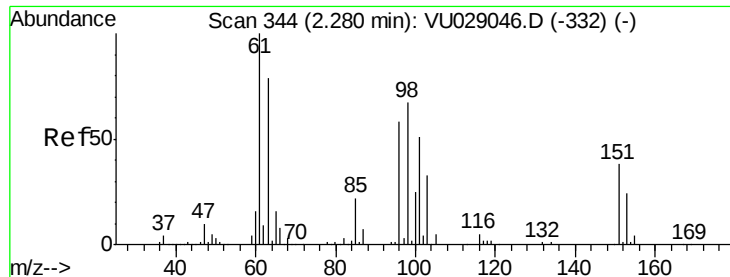


Abundance Ion 101.00 (100.70 to 101.70): VU029046.D (-332) (-)

Ion 85.00 (84.70 to 85.70): VU029046.D (-332) (-)

Ion 151.00 (150.70 to 151.70): VU029046.D (-332) (-)





#12

1,1-Dichloroethene

Concen: 0.640 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

C0950

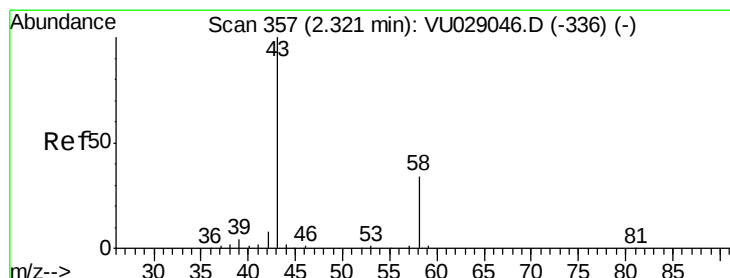
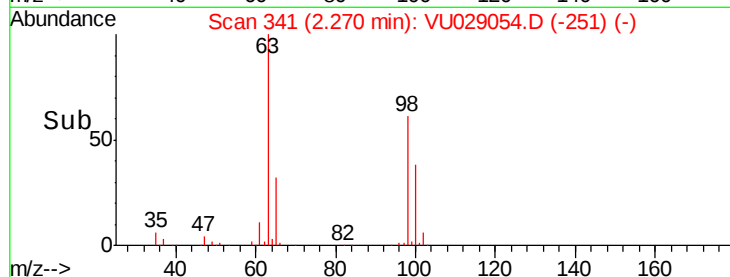
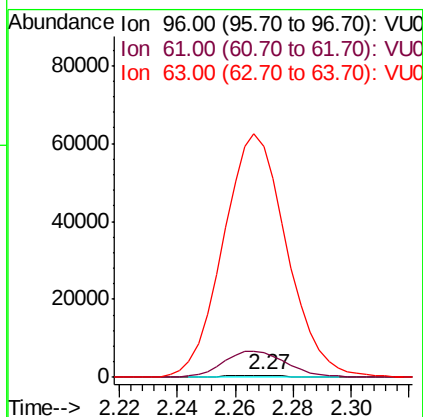
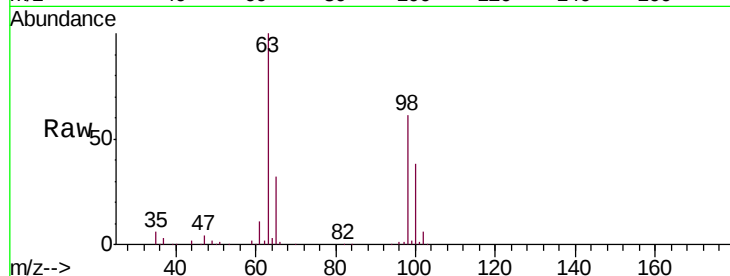
Tgt Ion: 96 Resp: 787

Ion Ratio Lower Upper

96 100

61 1294.7 119.3 221.5#

63 12135.8 107.4 199.6#



#13

Acetone

Concen: 19.276 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU029054.D

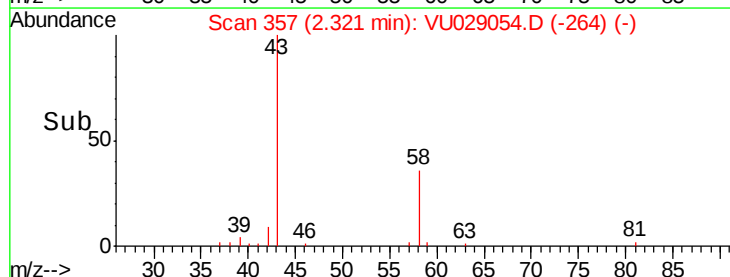
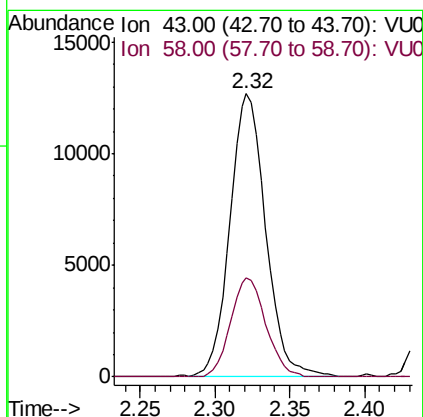
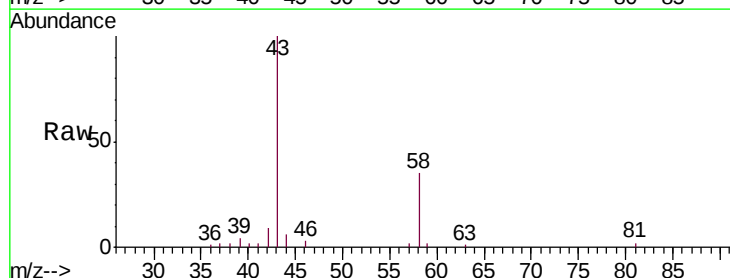
Acq: 07 Jan 2019 12:52

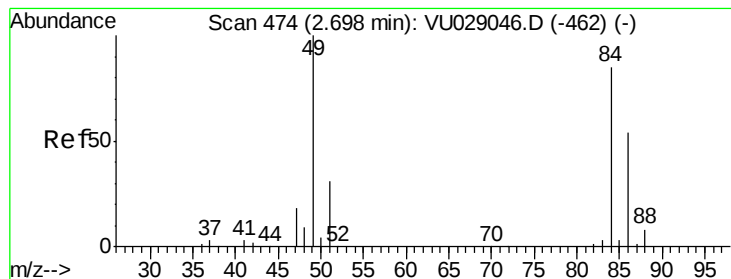
Tgt Ion: 43 Resp: 21169

Ion Ratio Lower Upper

43 100

58 34.3 0.0 70.2





#16

Methylene chloride

Concen: 0.574 ug/L

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

C0950

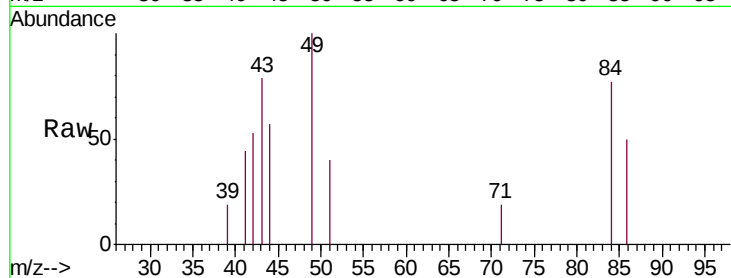
Tgt Ion: 84 Resp: 871

Ion Ratio Lower Upper

84 100

86 64.4 44.9 83.3

49 129.8 83.9 155.7



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Time-->

2.66 2.68 2.70 2.72

2.70

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

400

600

800

0

200

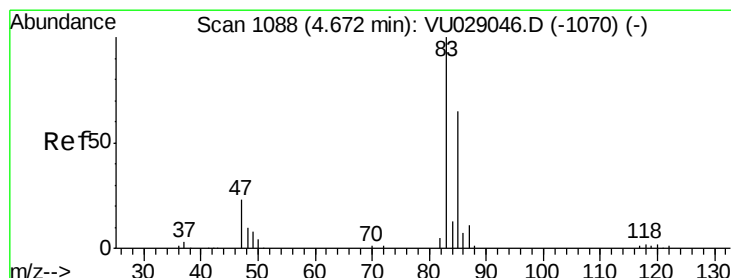
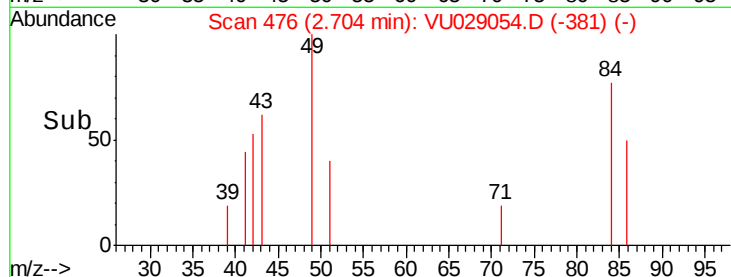
400

600

800

0

200



#25

Chloroform

Concen: 136.595 ug/L

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU029054.D

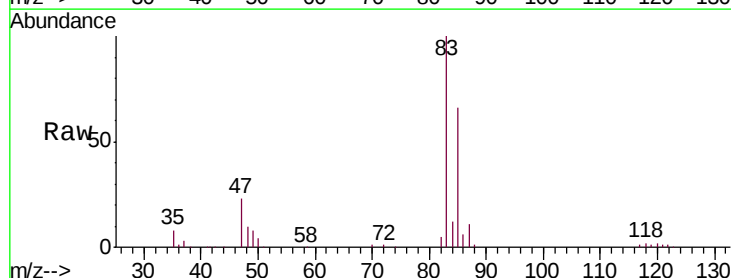
Acq: 07 Jan 2019 12:52

Tgt Ion: 83 Resp: 336826

Ion Ratio Lower Upper

83 100

85 65.7 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->

4.60 4.67 4.80

4.67

150000

100000

50000

0

50000

100000

150000

0

50000

100000

150000

0

50000

100000

150000

0

50000

100000

150000

0

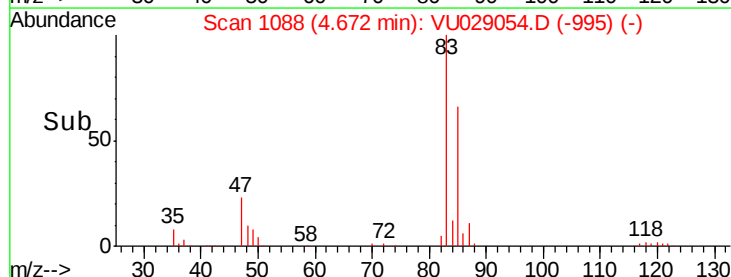
50000

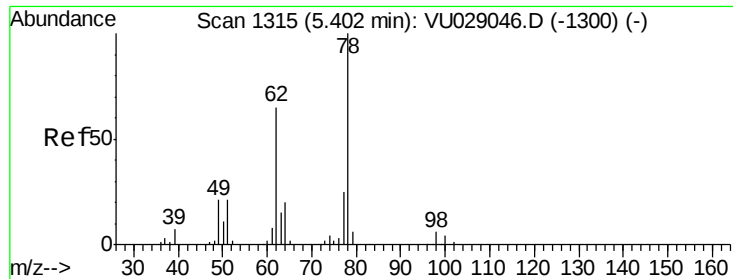
100000

150000

0

50000

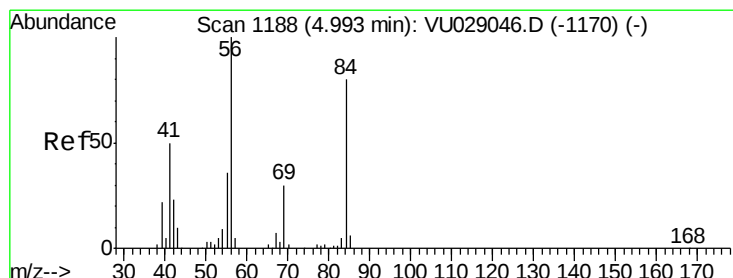
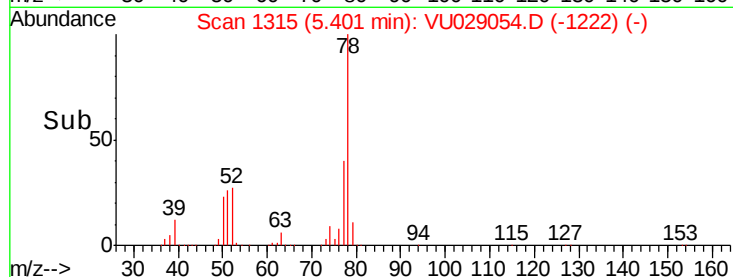
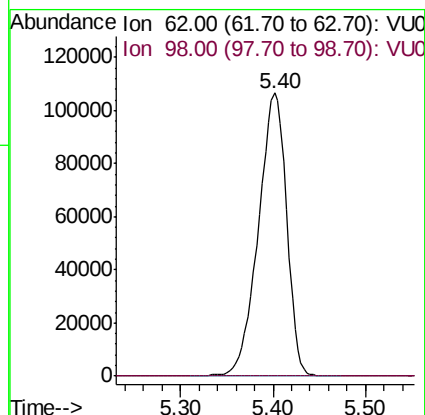
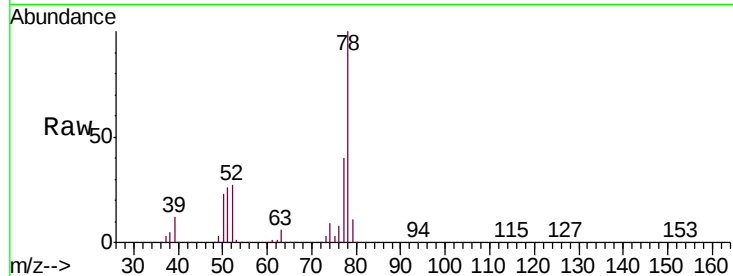




#27
 1,2-Dichloroethane
 Concen: 123.142 ug/L
 RT: 5.40 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

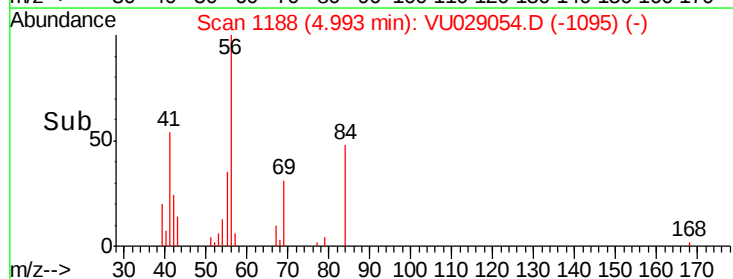
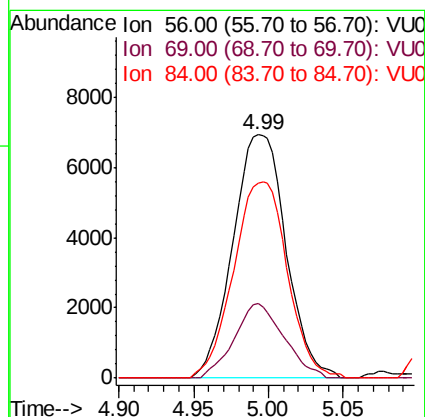
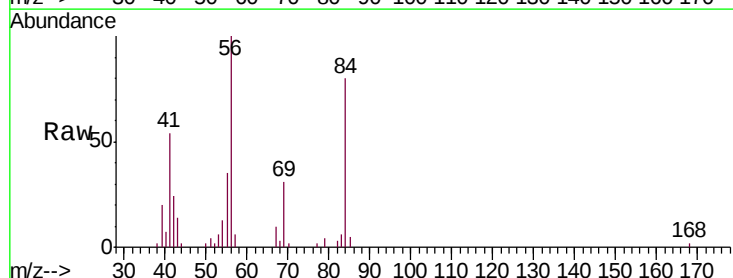
Instrument :
 MSVOA_U
 ClientSampleId :
 C0950

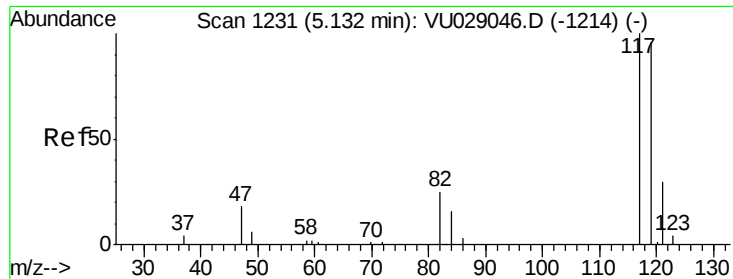
Tgt Ion: 62 Resp: 225669
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.5 11.3#



#29
 Cyclohexane
 Concen: 5.400 ug/L
 RT: 4.99 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

Tgt Ion: 56 Resp: 17133
 Ion Ratio Lower Upper
 56 100
 69 28.5 23.8 35.8
 84 81.6 63.8 95.8

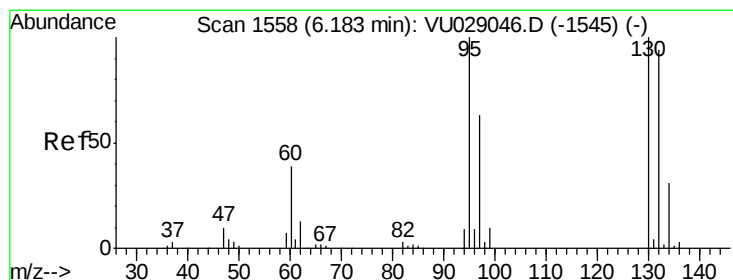
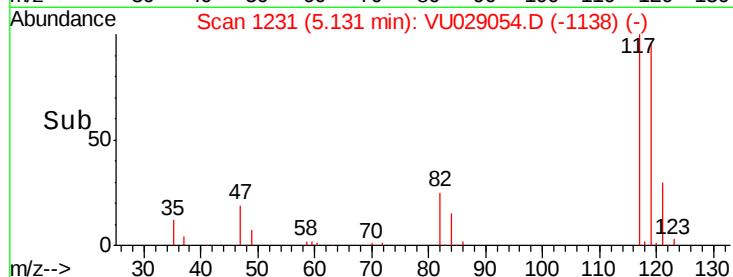
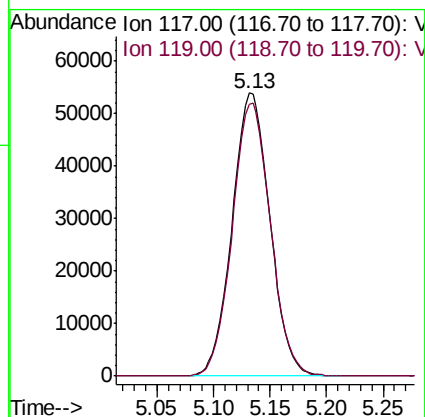
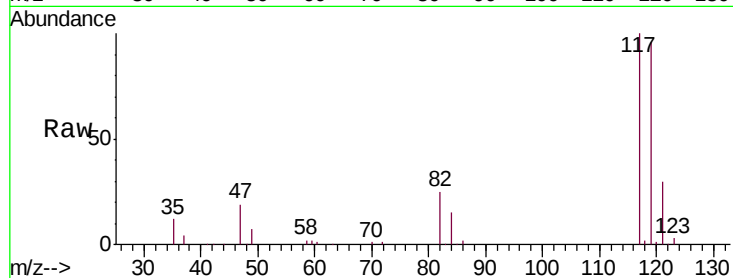




#31
Carbon tetrachloride
Concen: 61.625 ug/L
RT: 5.13 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

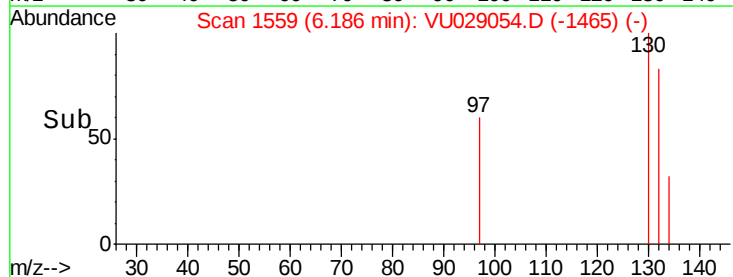
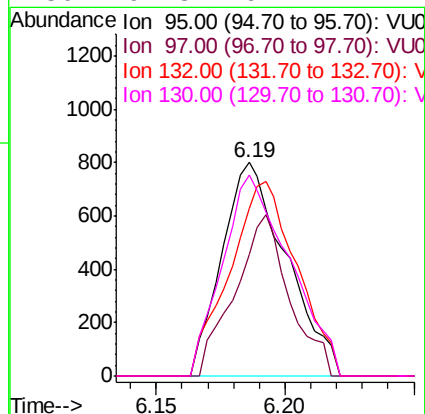
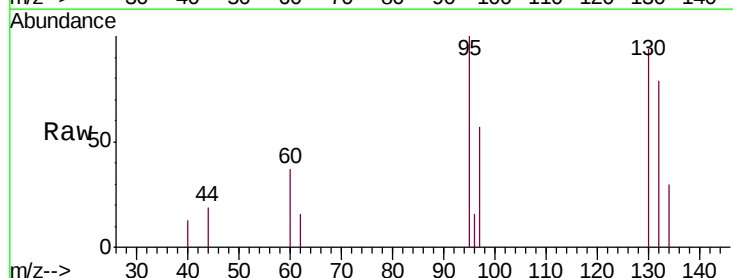
Instrument :
MSVOA_U
ClientSampled :
C0950

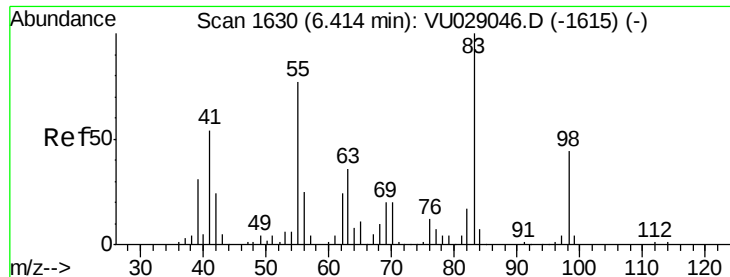
Tgt Ion: 117 Resp: 125396
Ion Ratio Lower Upper
117 100
119 97.6 77.0 115.6



#34
Trichloroethene
Concen: 0.761 ug/L
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

Tgt Ion: 95 Resp: 1395
Ion Ratio Lower Upper
95 100
97 56.7 43.3 80.3
132 78.5 64.2 119.2
130 94.3 67.1 124.7

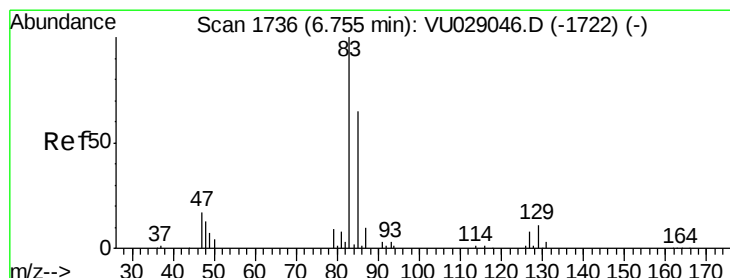
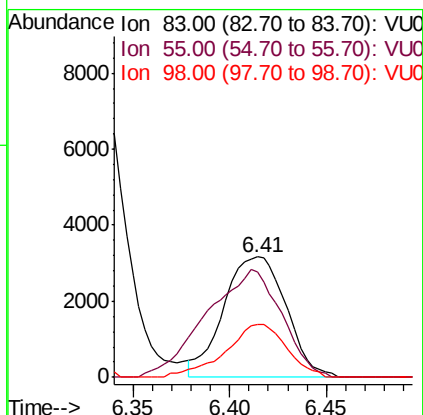
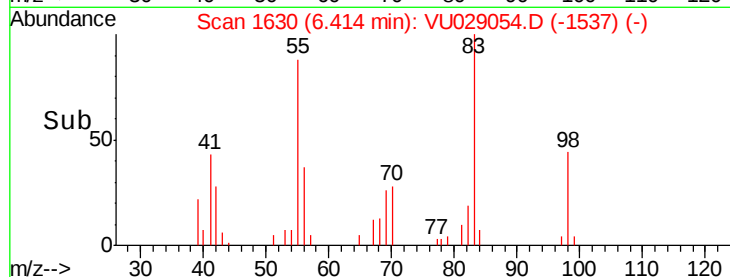
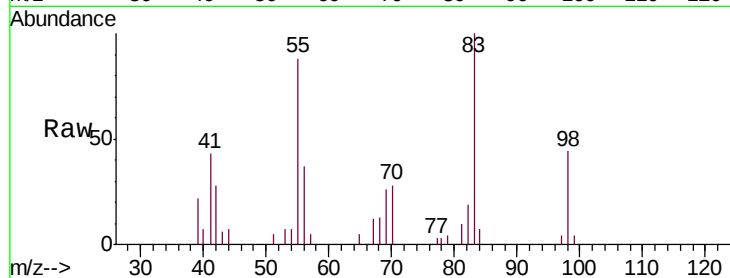




#35
Methylcyclohexane
Concen: 2.338 ug/L
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

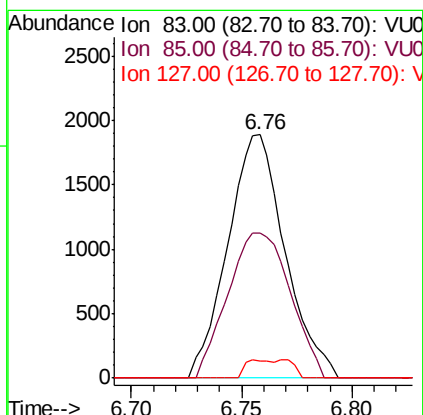
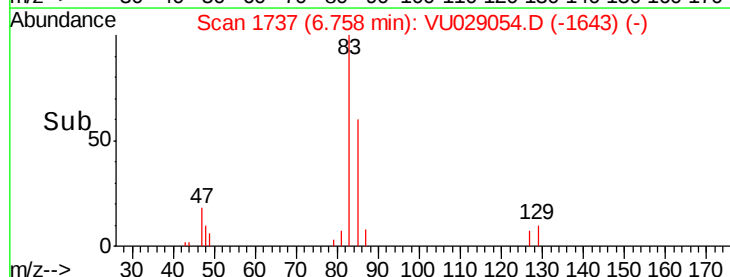
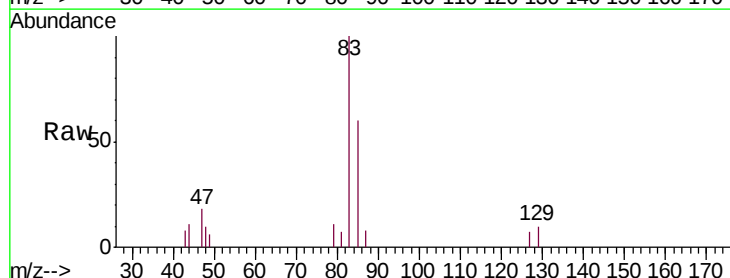
Instrument :
MSVOA_U
ClientSampleId :
C0950

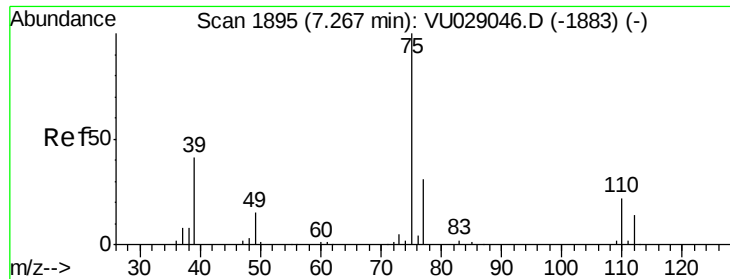
Tgt Ion: 83 Resp: 7135
Ion Ratio Lower Upper
83 100
55 106.9 63.7 95.5#
98 43.0 35.6 53.4



#38
Bromodichloromethane
Concen: 1.452 ug/L
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

Tgt Ion: 83 Resp: 3412
Ion Ratio Lower Upper
83 100
85 59.8 45.4 84.2
127 7.2 6.2 9.2

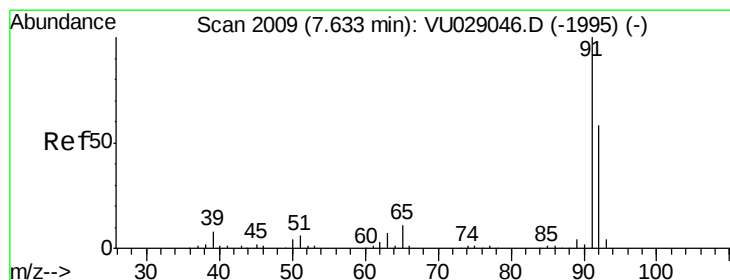
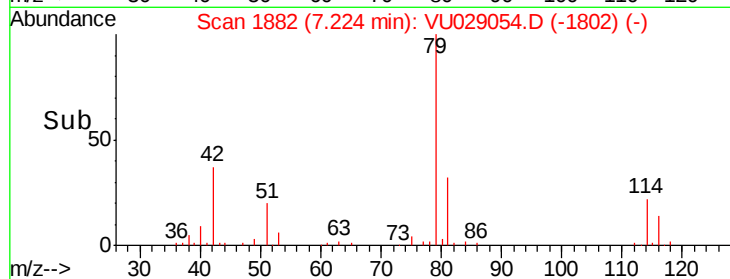
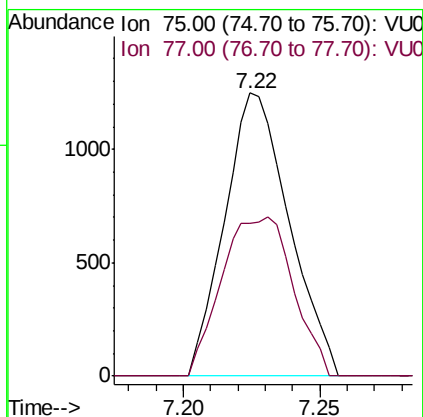
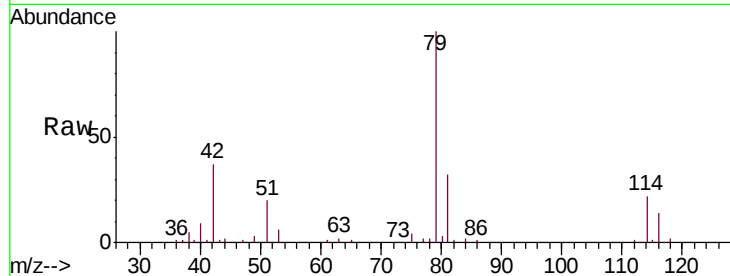




#39
 cis-1,3-Dichloropropene
 Concen: 0.677 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.04 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

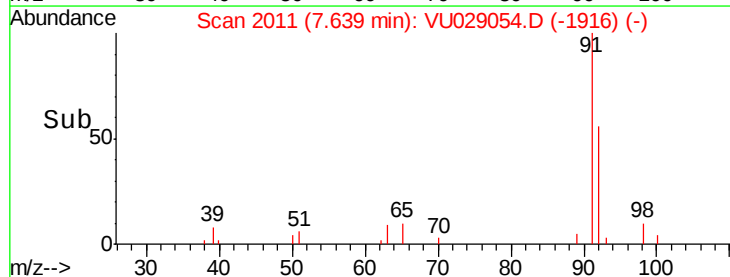
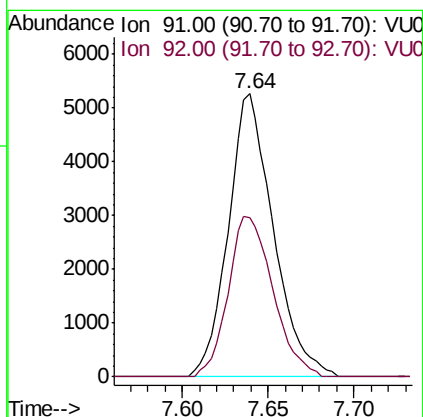
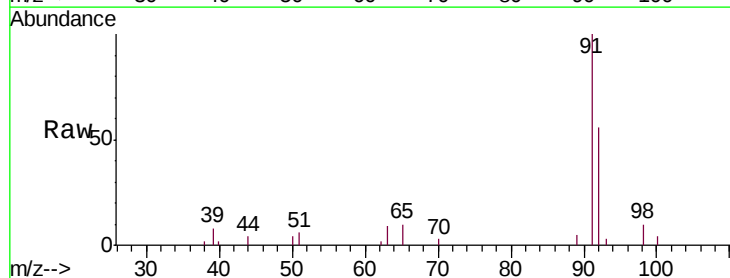
Instrument :
 MSVOA_U
 ClientSampleId :
 C0950

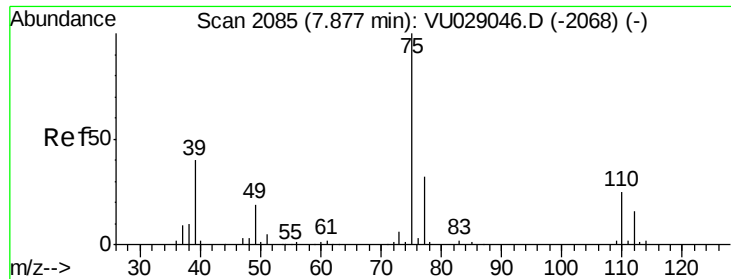
Tgt Ion: 75 Resp: 2049
 Ion Ratio Lower Upper
 75 100
 77 54.2 21.8 40.6#



#42
 Toluene
 Concen: 1.252 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. 0.01 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

Tgt Ion: 91 Resp: 9631
 Ion Ratio Lower Upper
 91 100
 92 56.2 39.9 74.1





#44

trans-1,3-Dichloropropene

Concen: 0.543 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

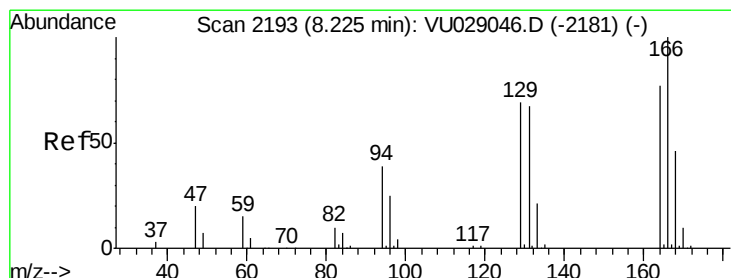
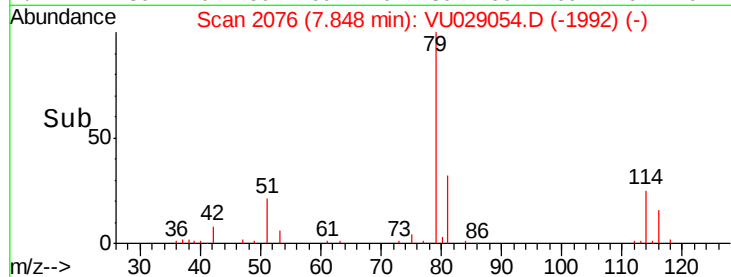
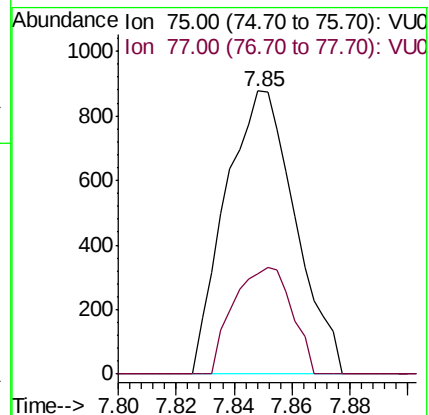
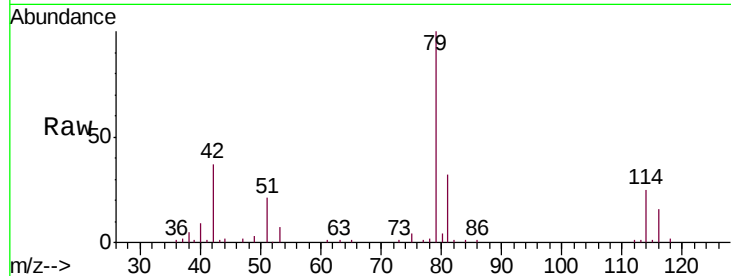
C0950

Tgt Ion: 75 Resp: 1464

Ion Ratio Lower Upper

75 100

77 35.3 21.8 40.6



#46

Tetrachloroethene

Concen: 1.842 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Tgt Ion: 164 Resp: 2599

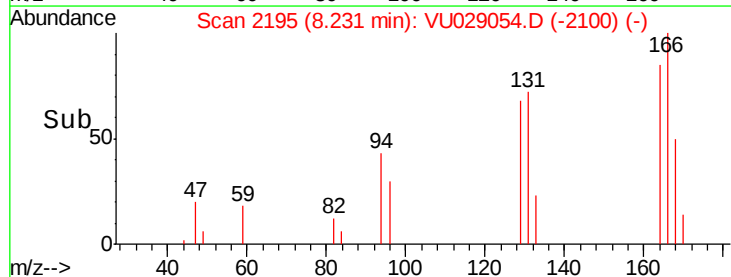
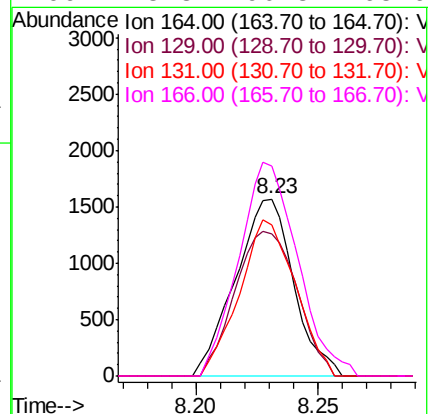
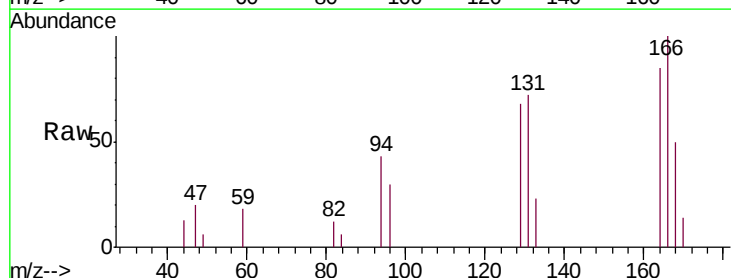
Ion Ratio Lower Upper

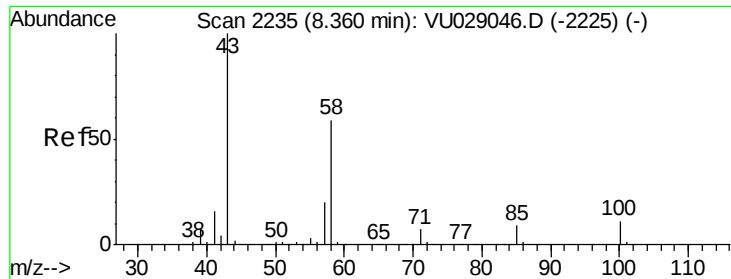
164 100

129 80.4 66.8 124.0

131 85.2 64.2 119.2

166 118.3 90.8 168.6

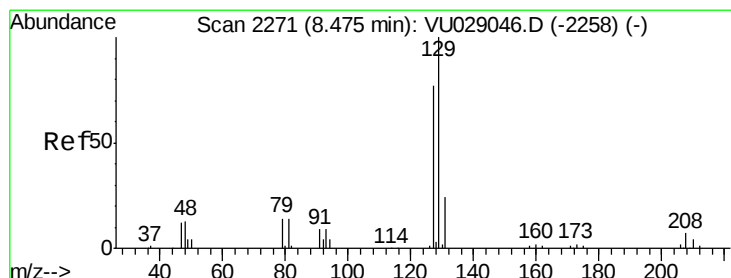
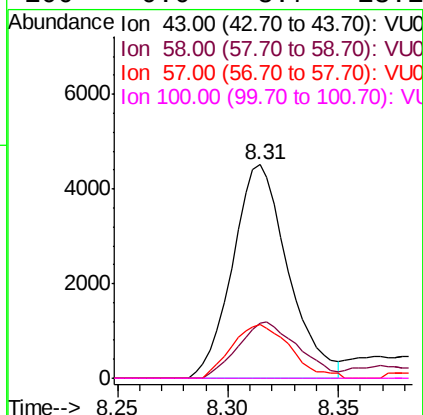
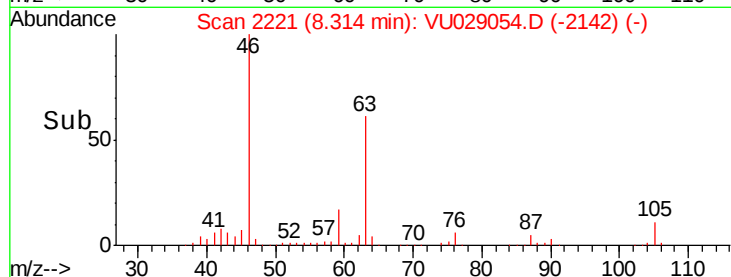
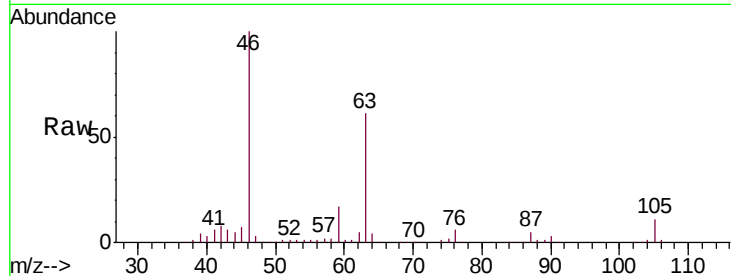




#48
2-Hexanone
Concen: 3.360 ug/L
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

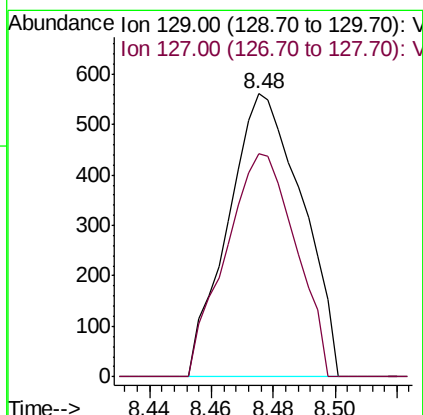
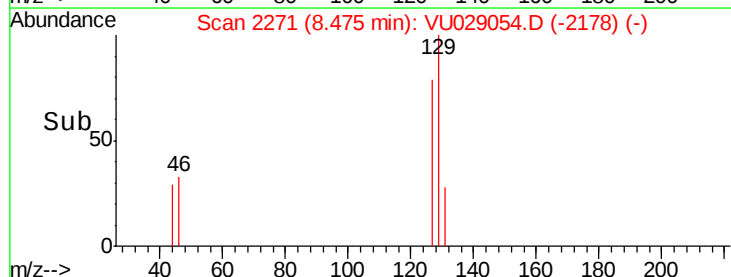
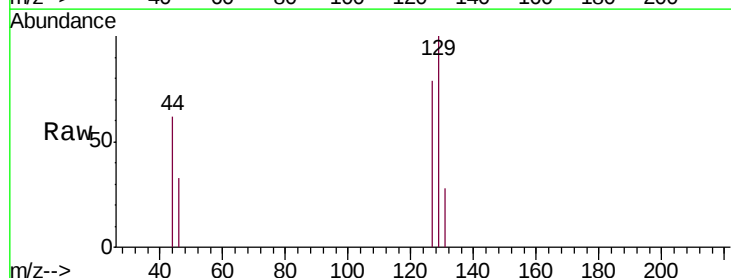
Instrument :
MSVOA_U
ClientSampleId :
C0950

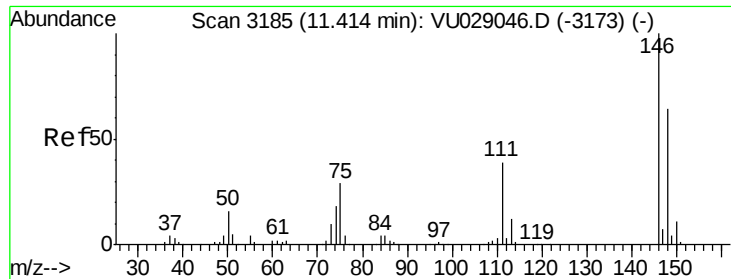
Tgt Ion: 43 Resp: 7864
Ion Ratio Lower Upper
43 100
58 28.6 45.9 68.9#
57 26.5 15.0 22.4#
100 0.0 8.7 13.1#



#49
Dibromochloromethane
Concen: 0.516 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU029054.D
Acq: 07 Jan 2019 12:52

Tgt Ion: 129 Resp: 932
Ion Ratio Lower Upper
129 100
127 78.8 54.1 100.5





#62

1,3-Dichlorobenzene

Concen: 1398.361 ug/L

RT: 11.43 min Scan# 3189

Delta R.T. 0.01 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampled :

C0950

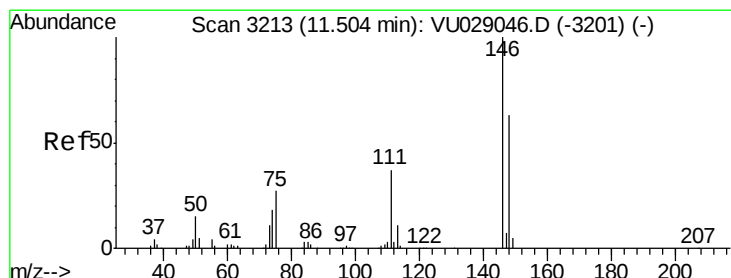
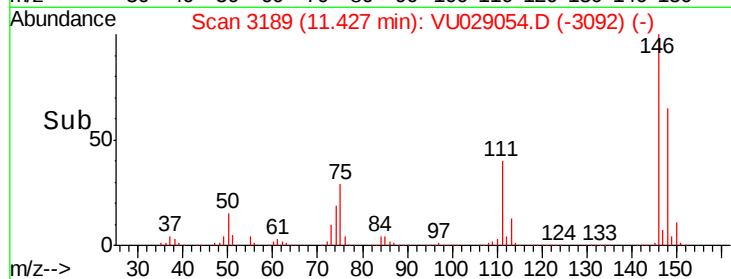
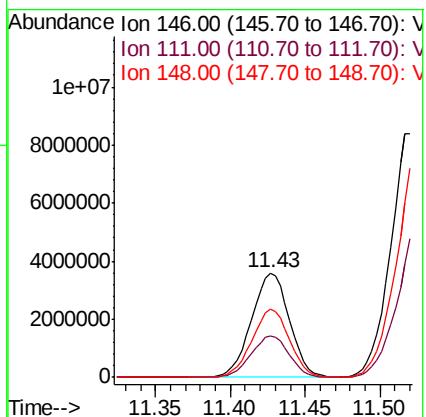
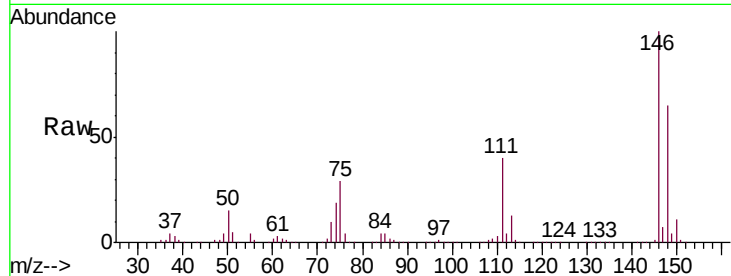
Tgt Ion:146 Resp: 6324610

Ion Ratio Lower Upper

146 100

111 40.3 27.4 50.8

148 65.1 44.2 82.2



#63

1,4-Dichlorobenzene

Concen: 1357.259 ug/L

RT: 11.43 min Scan# 3189

Delta R.T. -0.08 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

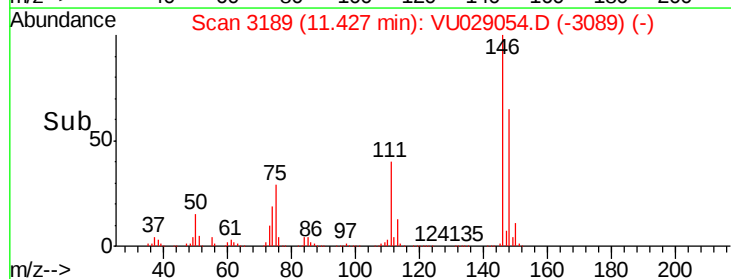
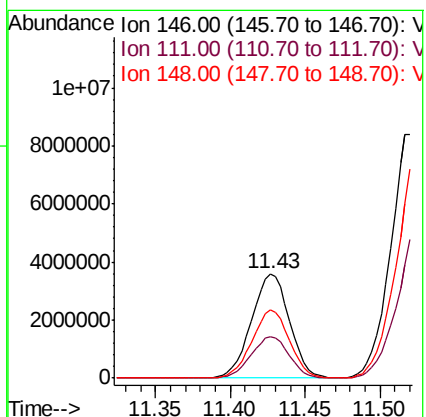
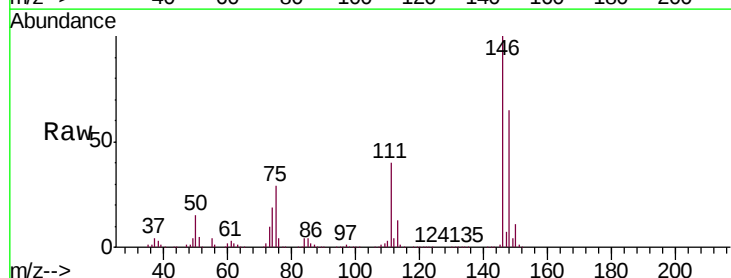
Tgt Ion:146 Resp: 6324610

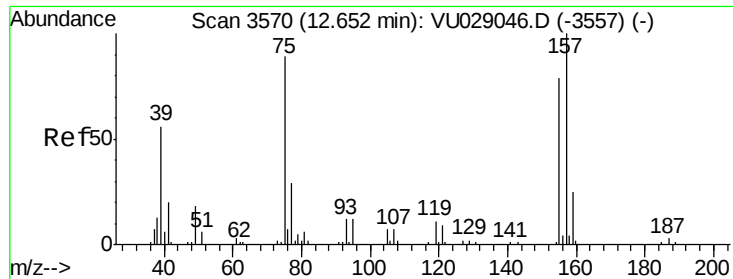
Ion Ratio Lower Upper

146 100

111 40.3 26.5 49.1

148 65.1 45.1 83.9

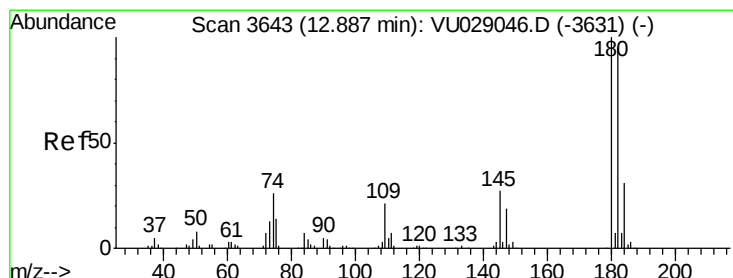
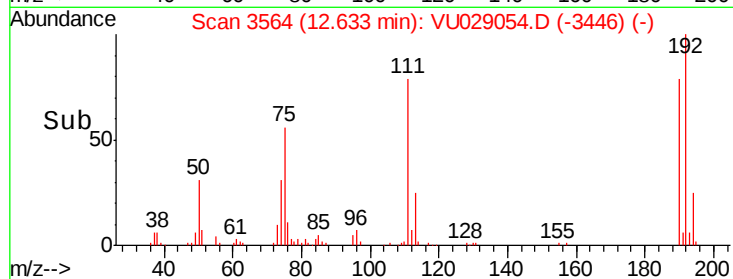
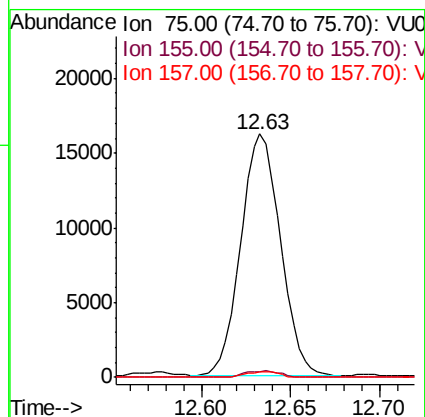
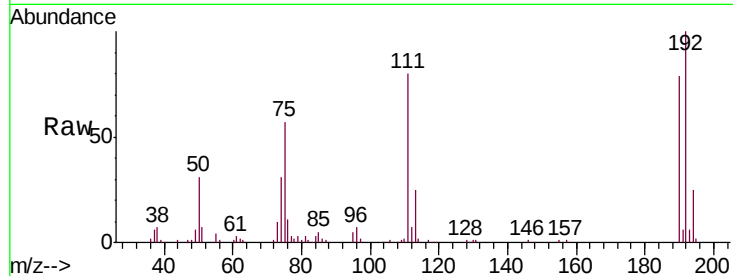




#66
 1,2-Dibromo-3-chloropropane
 Concen: 30.763 ug/L
 RT: 12.63 min Scan# 3564
 Delta R.T. -0.02 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

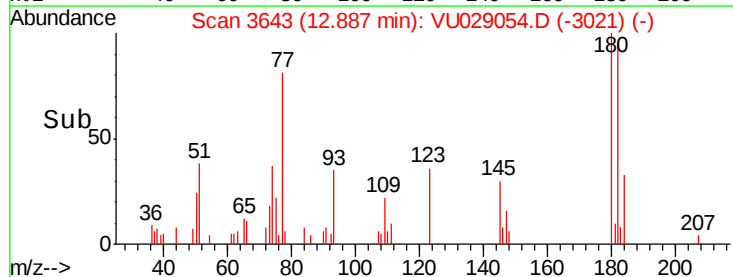
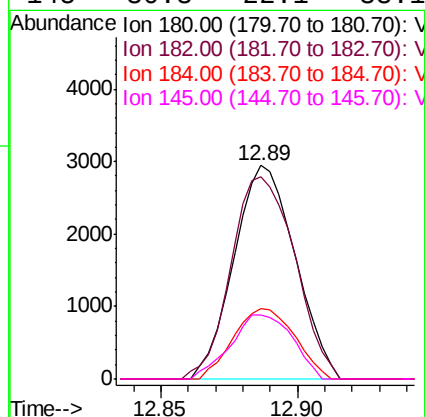
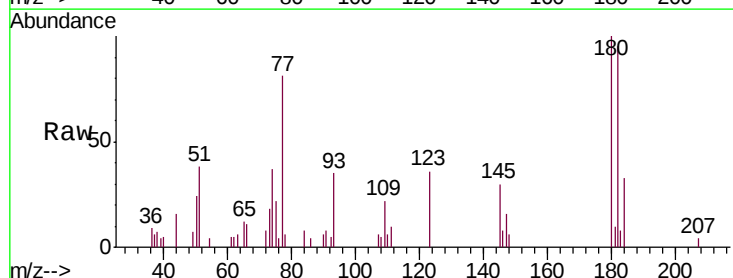
Instrument :
 MSVOA_U
 ClientSampleId :
 C0950

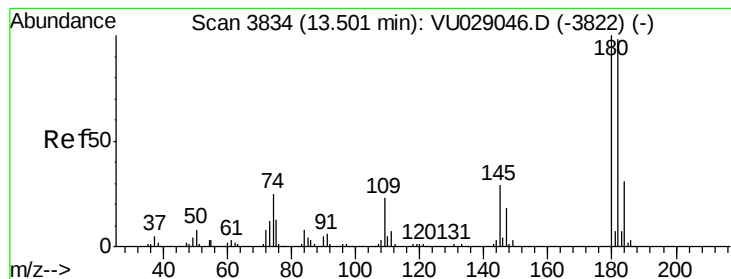
Tgt Ion: 75 Resp: 25036
 Ion Ratio Lower Upper
 75 100
 155 2.5 71.4 107.2#
 157 2.2 89.6 134.4#



#67
 1,3,5-Trichlorobenzene
 Concen: 1.378 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

Tgt Ion: 180 Resp: 4595
 Ion Ratio Lower Upper
 180 100
 182 98.7 76.4 114.6
 184 32.9 24.6 36.8
 145 30.3 22.1 33.1





#68

1,2,4-trichlorobenzene

Concen: 3655.985 ug/L

RT: 13.52 min Scan# 3839

Delta R.T. 0.02 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

C0950

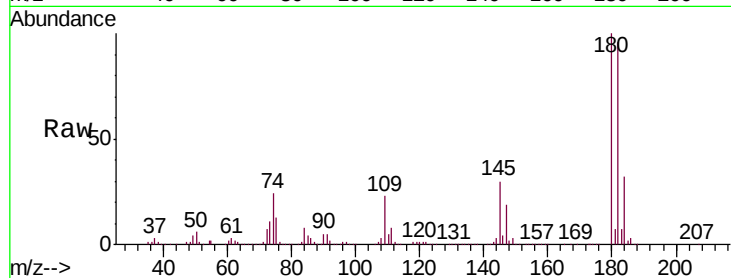
Tgt Ion:180 Resp:10209418

Ion Ratio Lower Upper

180 100

182 95.3 77.4 116.0

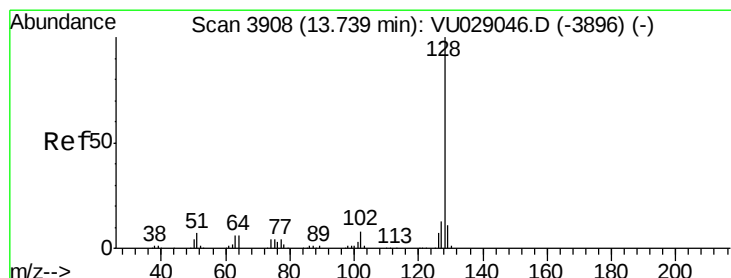
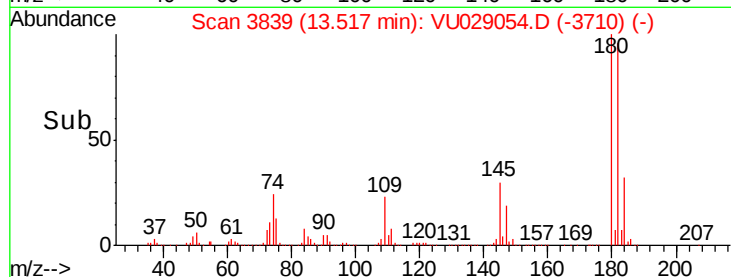
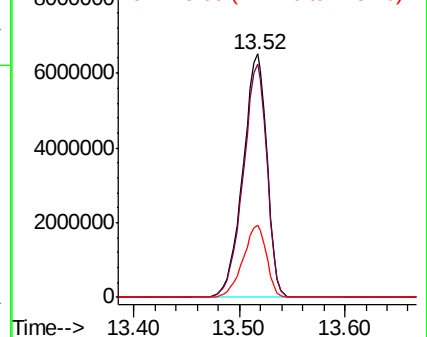
145 29.1 23.5 35.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 0.473 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029054.D

Acq: 07 Jan 2019 12:52

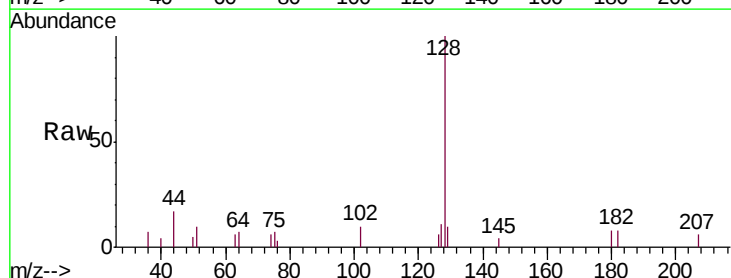
Tgt Ion:128 Resp: 4582

Ion Ratio Lower Upper

128 100

127 10.7 10.5 15.7

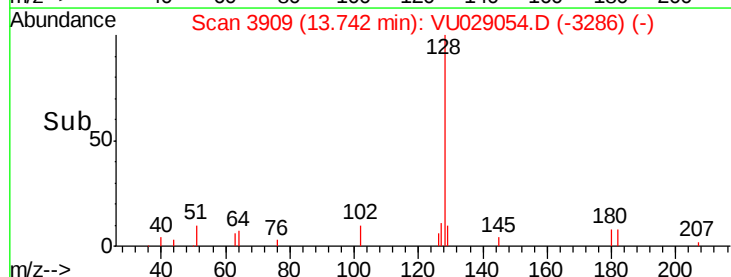
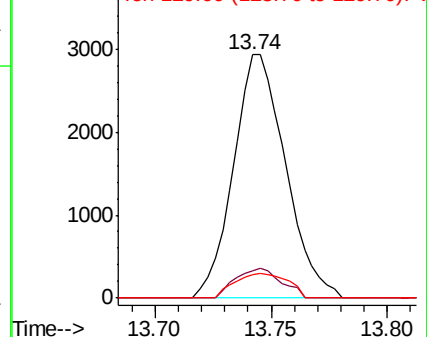
129 10.3 8.7 13.1

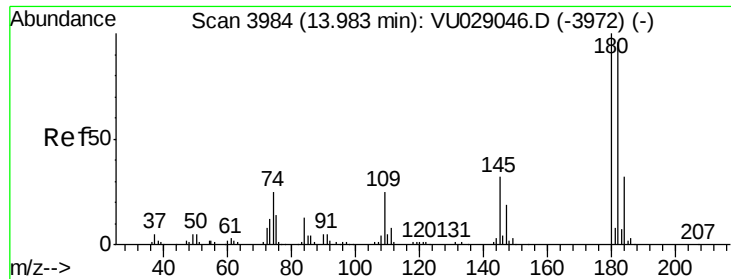


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

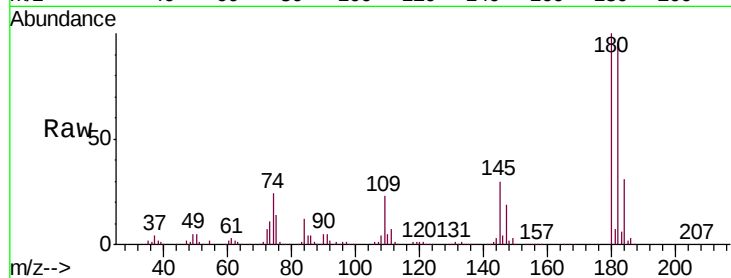




#70
 1,2,3-Trichlorobenzene
 Concen: 733.810 ug/L
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.01 min
 Lab File: VU029054.D
 Acq: 07 Jan 2019 12:52

Instrument :
 MSVOA_U
 ClientSampleId :
 C0950

Tgt Ion:180 Resp: 2209635
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.8 113.8
 145 30.3 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V
 2000000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

