

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034166.D
 Acq On : 01 Sep 2019 14:10
 Operator : JC/SP
 Sample : K4648-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:32:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	433540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	701197	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	675664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335445	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	274147	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
35) Dibromofluoromethane	4.86	113	232234	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	7.55	98	894592	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	10.29	95	314547	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	

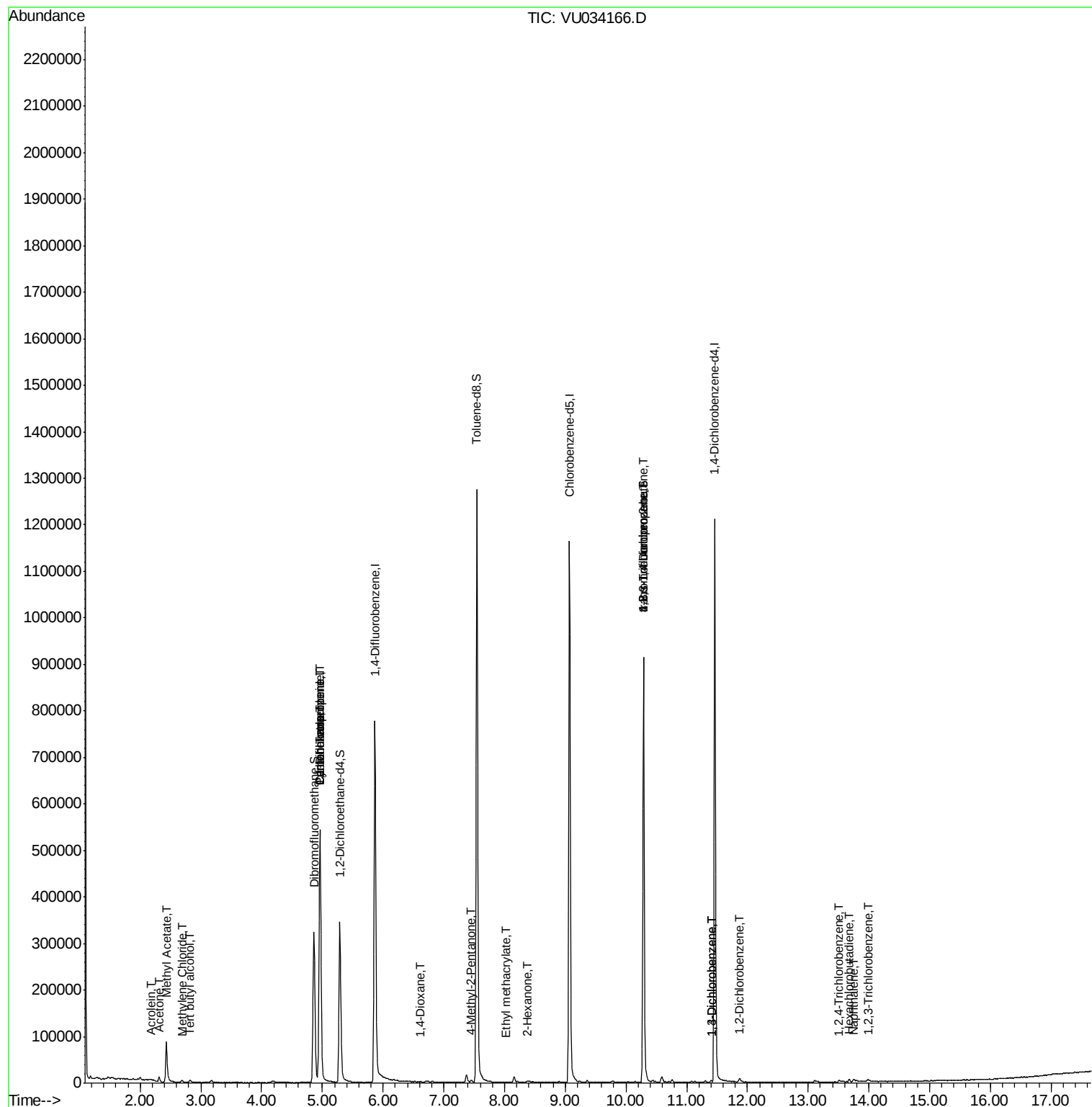
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1886	Below Cal		98
5) Bromomethane	1.63	94	1053	Below Cal	#	66
11) Tert butyl alcohol	2.81	59	4967	3.877	ug/l #	89
13) Acrolein	2.19	56	284	0.527	ug/l	92
16) Acetone	2.31	43	12563	4.432	ug/l	94
18) Methyl Acetate	2.43	43	22368	3.054	ug/l #	51
20) Methylene Chloride	2.69	84	1853	0.345	ug/l #	90
31) Cyclohexane	4.95	56	7930	0.956	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31976	4.821	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39275	6.135	ug/l #	16
49) 1,4-Dioxane	6.61	88	167	1.222	ug/l #	1
51) 4-Methyl-2-Pentanone	7.45	43	4194	0.537	ug/l	100
56) Ethyl methacrylate	8.02	69	178	0.992	ug/l #	1
59) 2-Hexanone	8.38	43	2461	0.418	ug/l	75
76) 1,2,3-Trichloropropane	10.29	75	150869	19.955	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	150869	67.194	ug/l #	100
87) 1,3-Dichlorobenzene	11.40	146	2185	0.204	ug/l	94
88) 1,4-Dichlorobenzene	11.40	146	2185	0.201	ug/l	94
91) 1,2-Dichlorobenzene	11.87	146	2072	0.202	ug/l	93
93) 1,2,4-Trichlorobenzene	13.51	180	1554	1.322	ug/l	70
94) Hexachlorobutadiene	13.67	225	1380	0.343	ug/l	97
95) Naphthalene	13.75	128	10454	2.271	ug/l #	73
96) 1,2,3-Trichlorobenzene	13.99	180	3222	0.489	ug/l	88

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

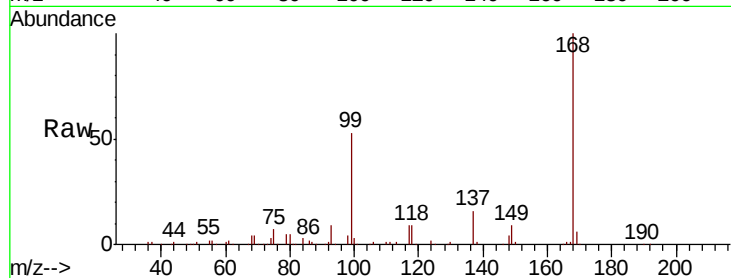
ClientSampleId :

Tot Ion:168 Resp: 433540

Ion Ratio Lower Upper

168 100

99 53.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

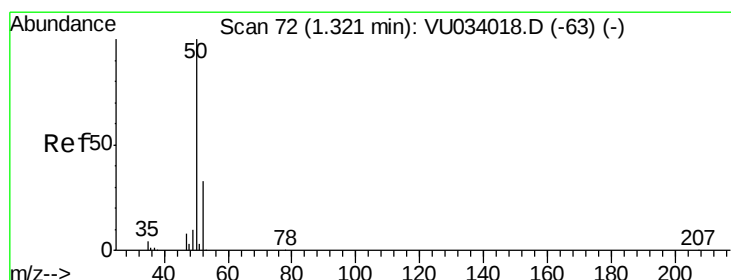
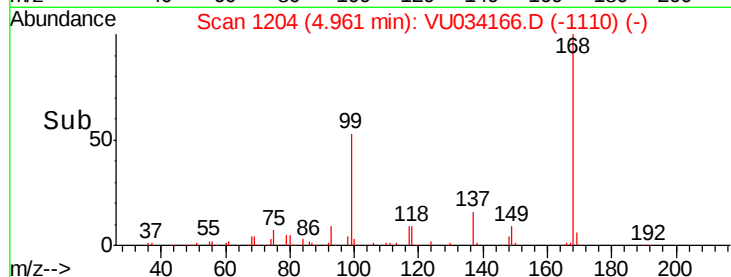
100000

50000

0

4.90 5.00

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034166.D

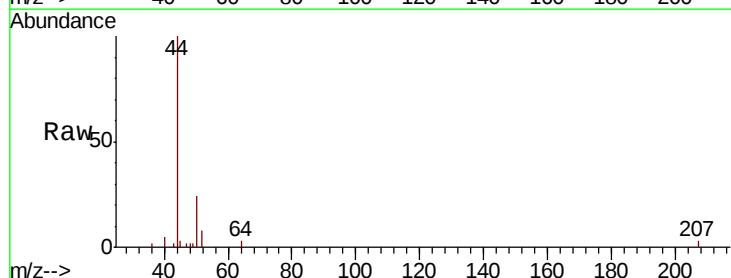
Acq: 01 Sep 2019 14:10

Tgt Ion: 50 Resp: 1886

Ion Ratio Lower Upper

50 100

52 31.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

2000

1500

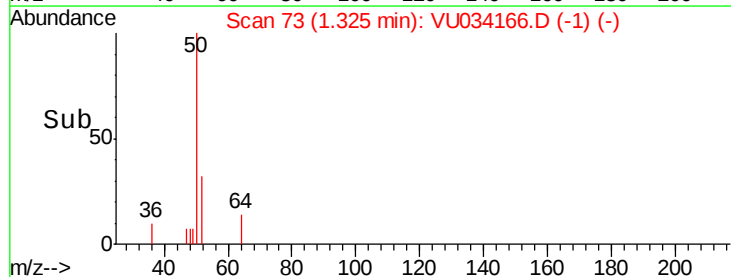
1000

500

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

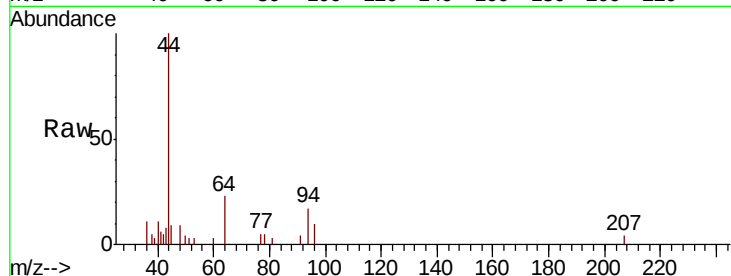
ClientSampleId :

Tot Ion: 94 Resp: 1053

Ion Ratio Lower Upper

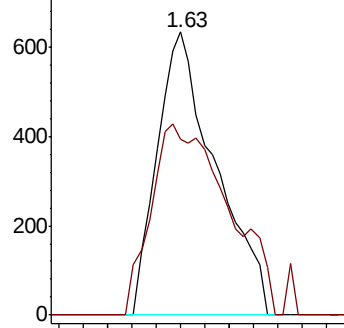
94 100

96 62.2 76.3 114.5#

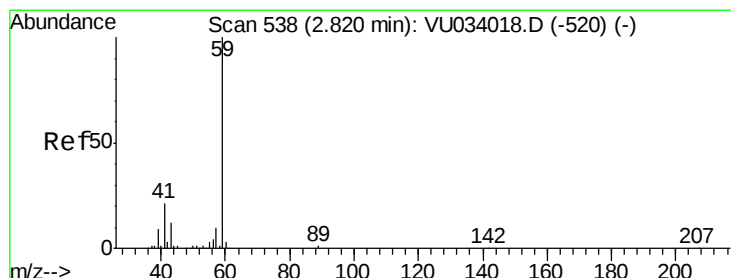
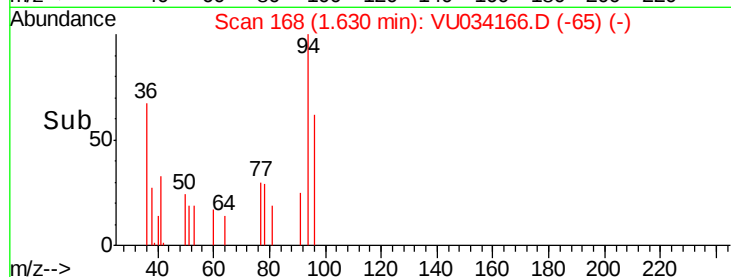


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#11

Tert butyl alcohol

Concen: 3.877 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU034166.D

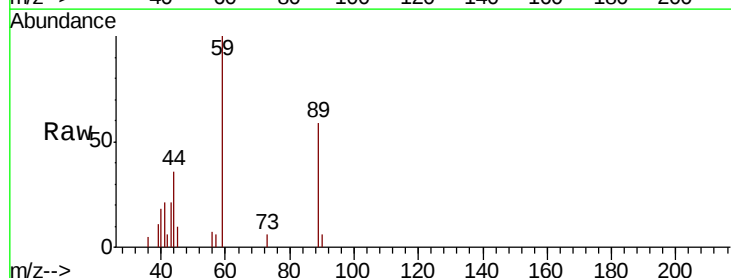
Acq: 01 Sep 2019 14:10

Tgt Ion: 59 Resp: 4967

Ion Ratio Lower Upper

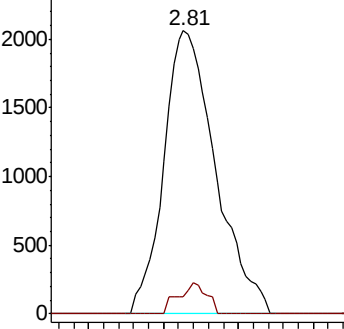
59 100

57 5.9 8.0 12.0#

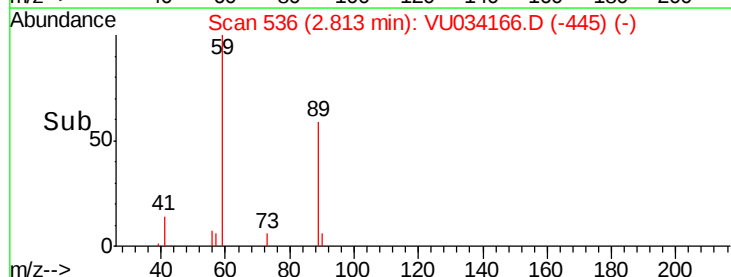


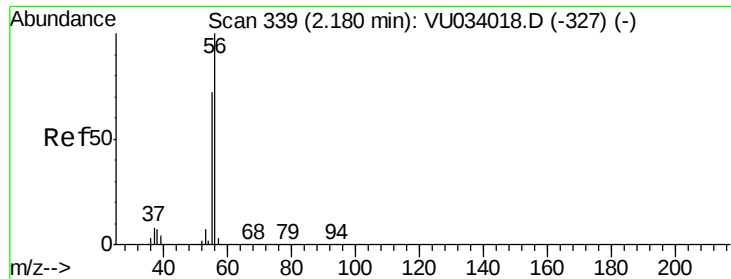
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->





#13

Acrolein

Concen: 0.527 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

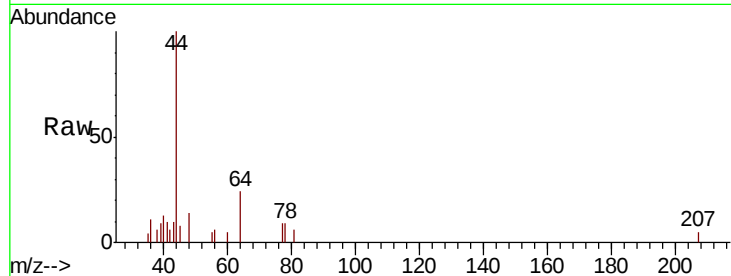
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 284

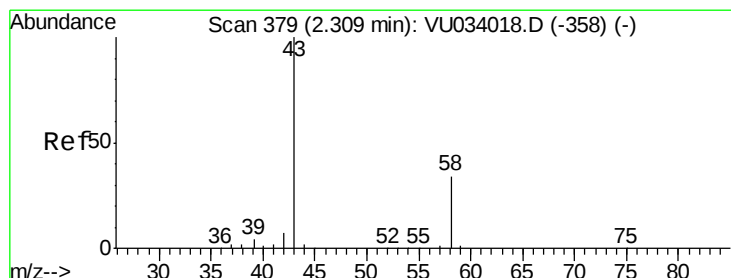
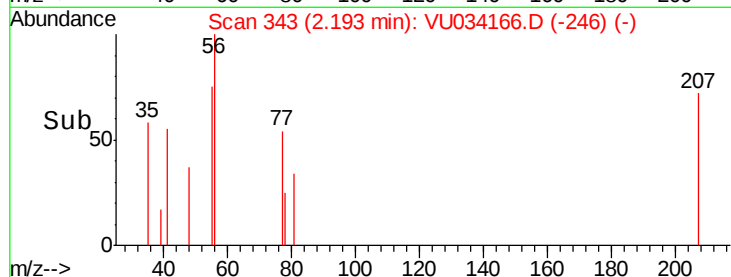
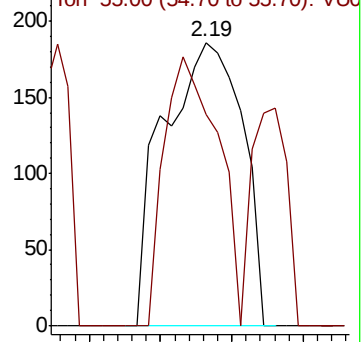
Ion Ratio Lower Upper

56 100

55 64.8 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034166.D (-246) (-)



#16

Acetone

Concen: 4.432 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034166.D

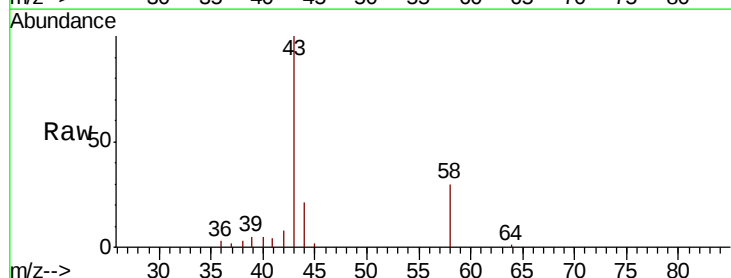
Acq: 01 Sep 2019 14:10

Tgt Ion: 43 Resp: 12563

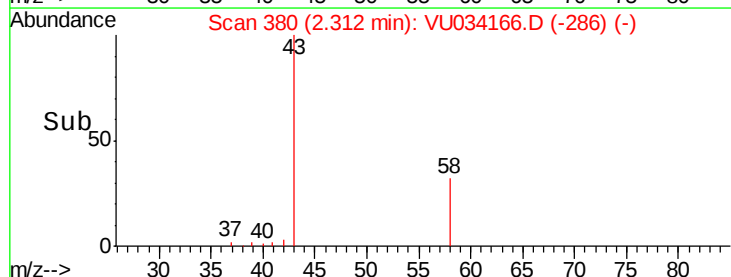
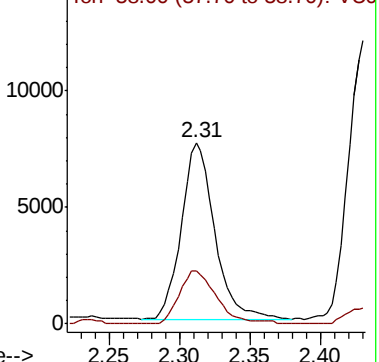
Ion Ratio Lower Upper

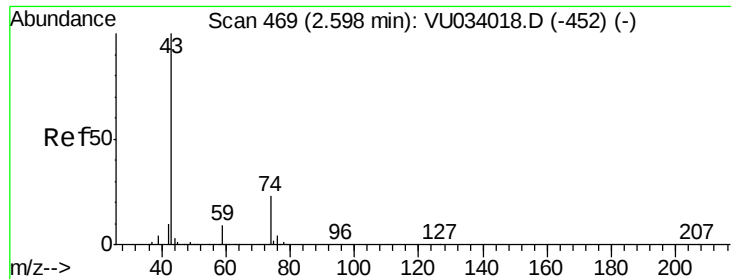
43 100

58 30.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034166.D (-286) (-)

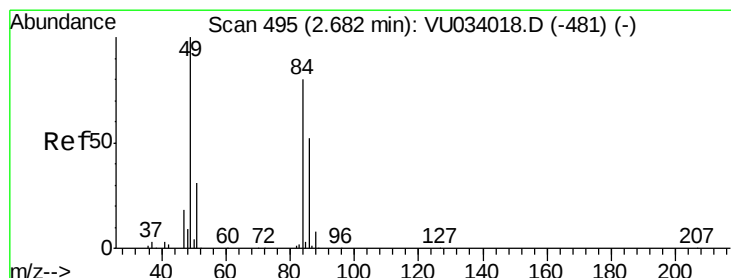
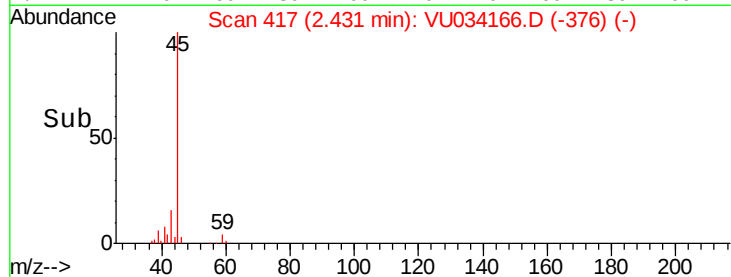
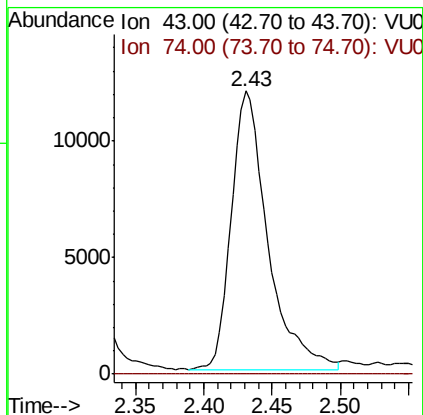
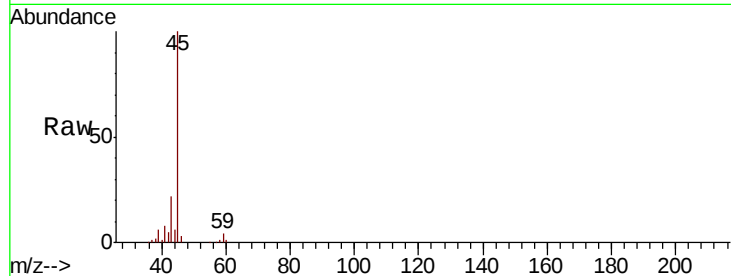




#18
Methvl Acetate
Concen: 3.054 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

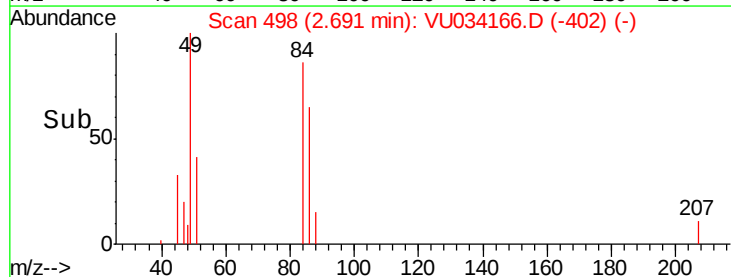
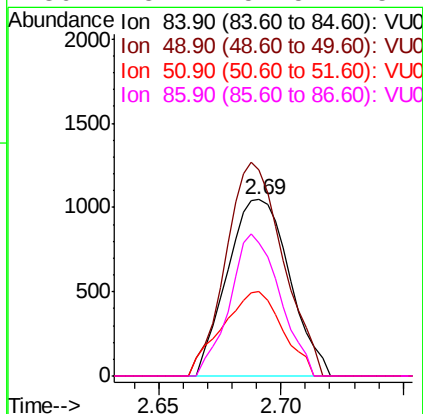
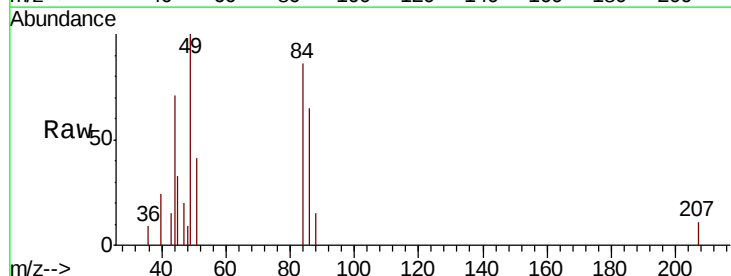
Instrument :
MSVOA_U
ClientSampleId :

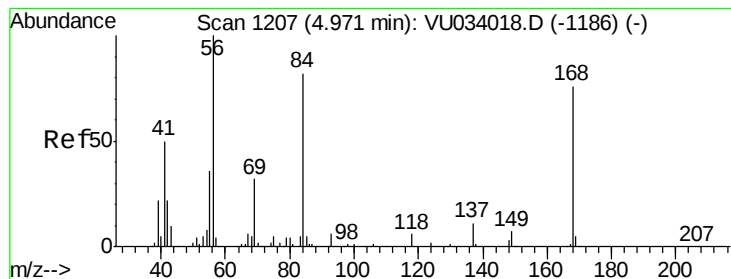
Tot Ion: 43 Resp: 22368
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: 0.345 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

Tgt Ion: 84 Resp: 1853
Ion Ratio Lower Upper
84 100
49 116.7 100.2 150.4
51 47.6 30.8 46.2#
86 75.4 52.5 78.7





#31

Cyclohexane

Concen: 0.956 ug/l

RT: 4.95 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :
MSVOA_U
ClientSampled :

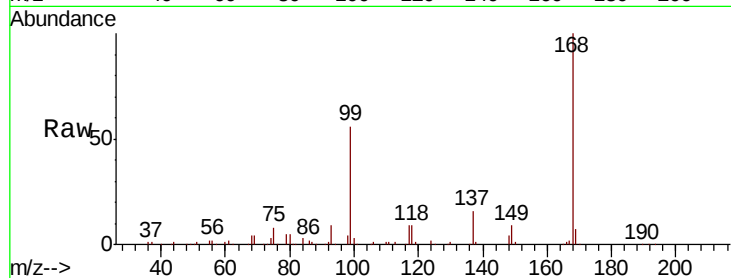
Tot Ion: 56 Resp: 7930

Ion Ratio Lower Upper

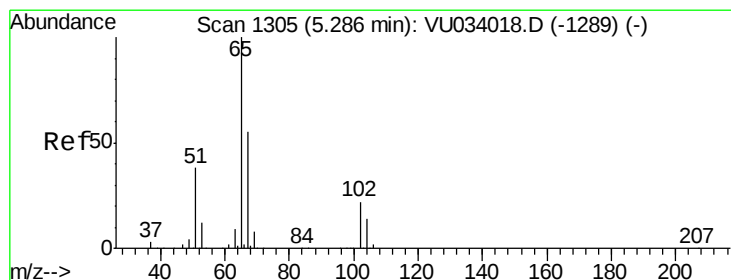
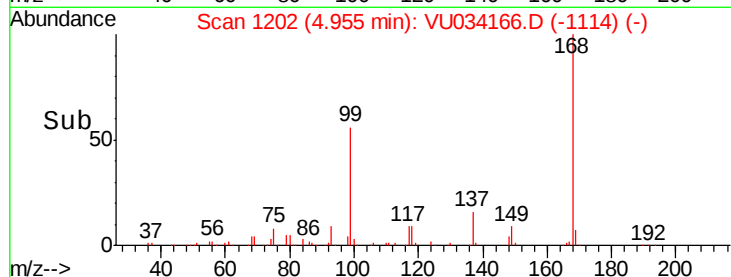
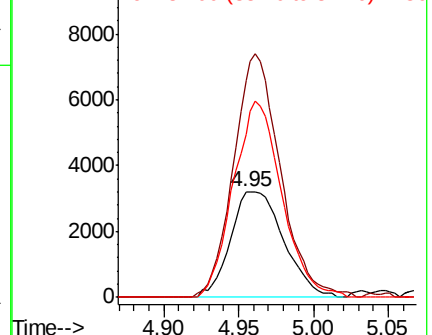
56 100

69 205.7 25.4 38.0#

84 154.9 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 49.350 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034166.D

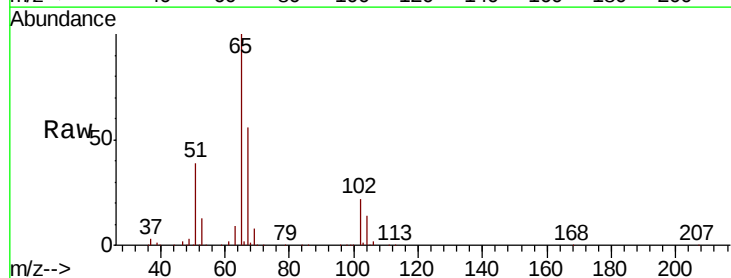
Acq: 01 Sep 2019 14:10

Tgt Ion: 65 Resp: 274147

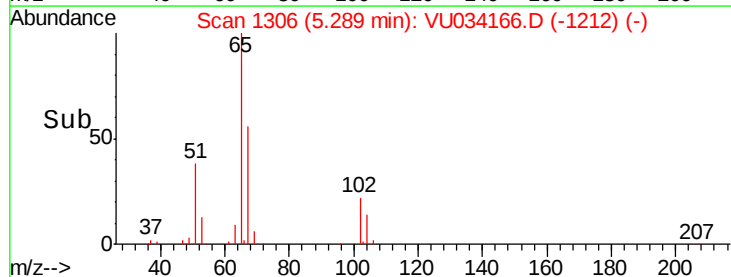
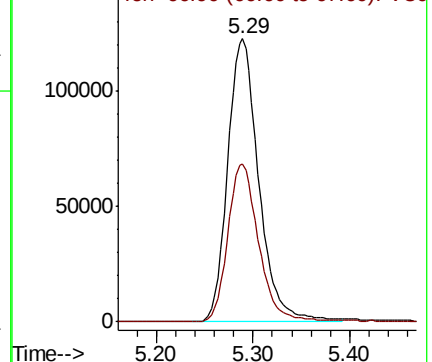
Ion Ratio Lower Upper

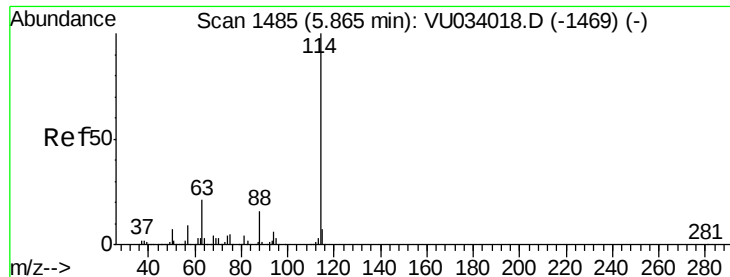
65 100

67 55.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

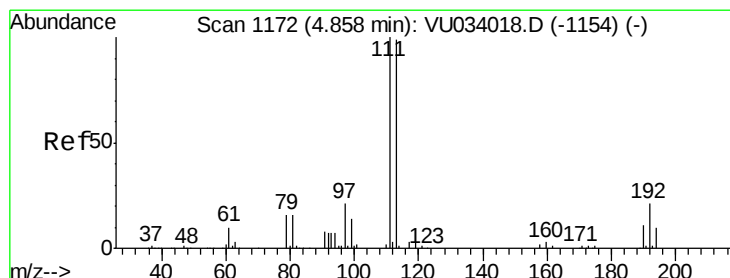
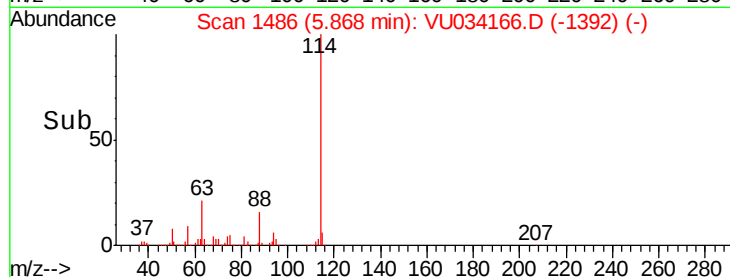
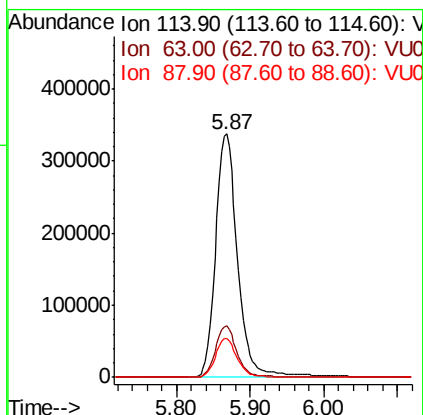
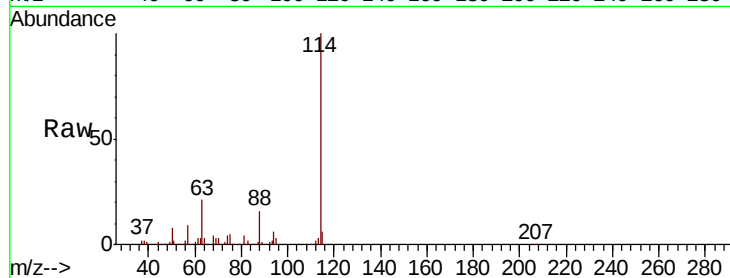




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

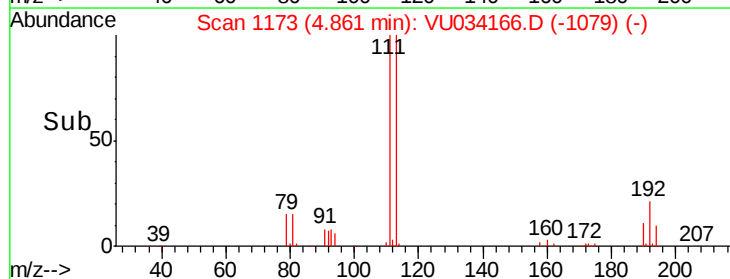
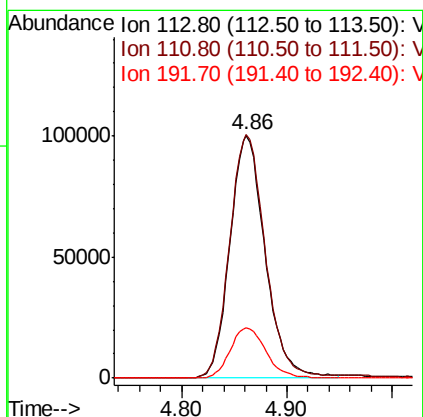
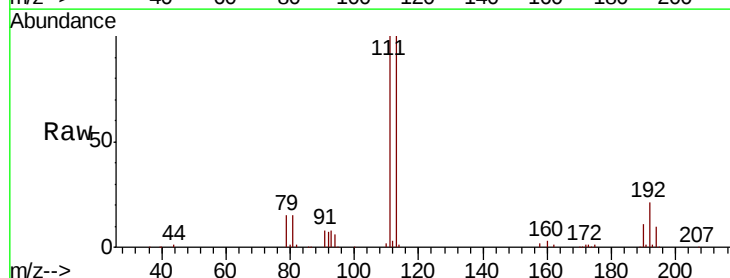
Instrument :
 MSVOA_U
 ClientSampleId :

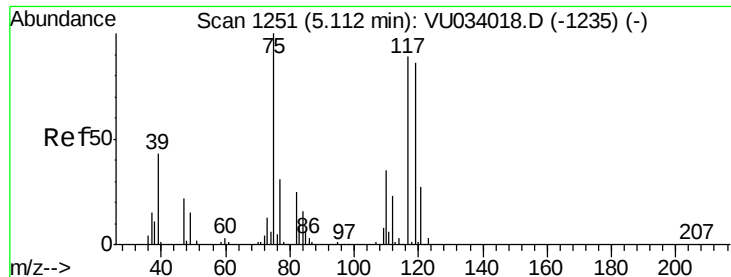
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.0
88	15.9	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 47.751 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.7	122.5
192	21.2	17.1	25.7

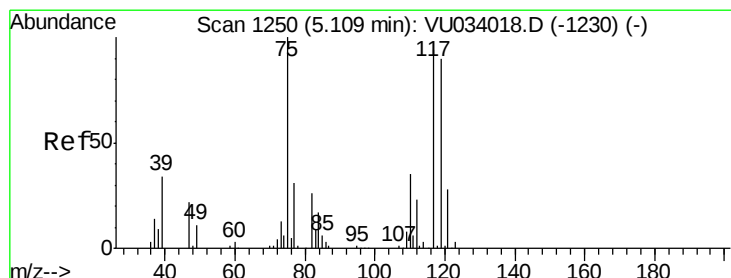
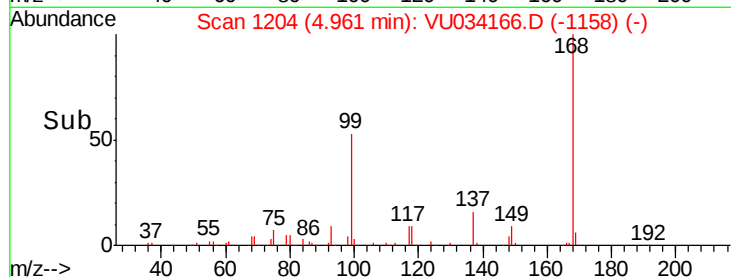
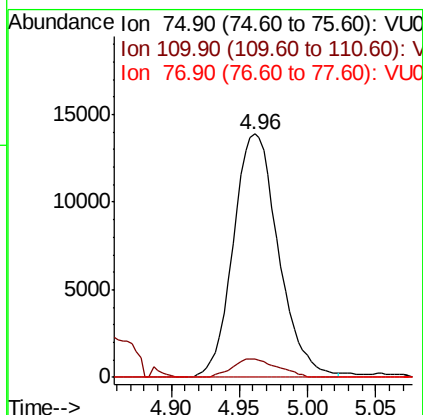
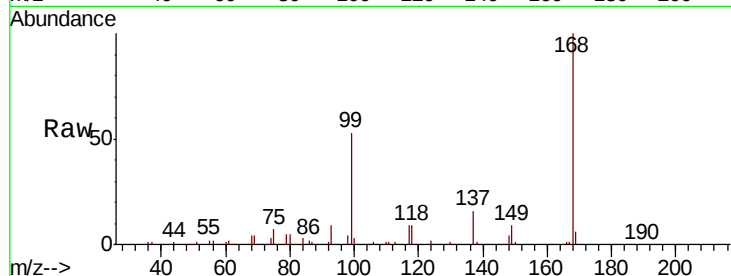




#36
 1,1-Dichloropropene
 Concen: 4.821 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

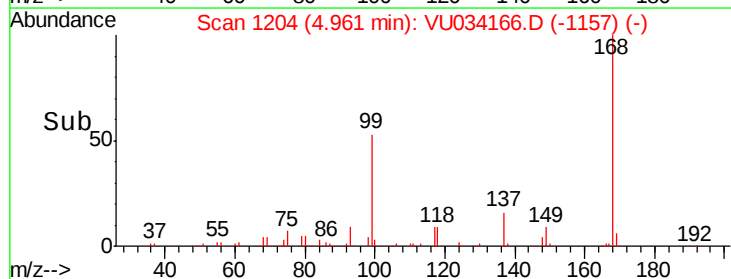
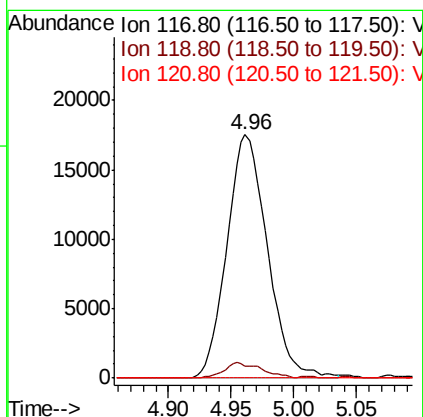
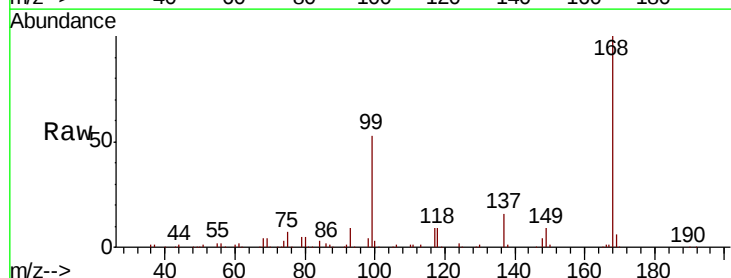
Instrument :
 MSVOA_U
 ClientSampled :

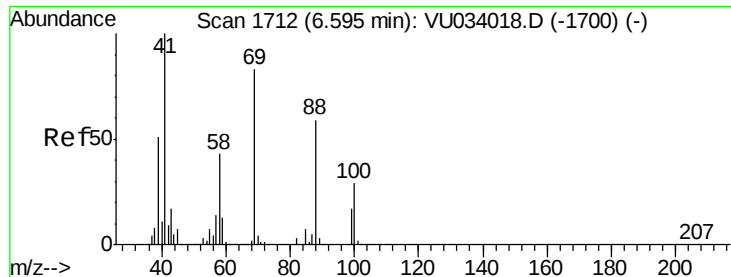
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.4	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.135 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.0	115.4#
121	0.0	23.9	35.9#





#49

1,4-Dioxane

Concen: 1.222 ug/l

RT: 6.61 min Scan# 1716

Delta R.T. 0.01 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

ClientSampleId :

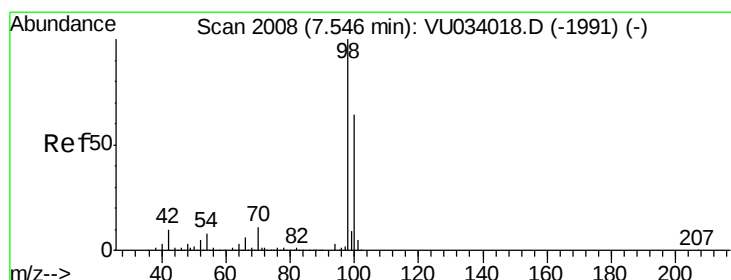
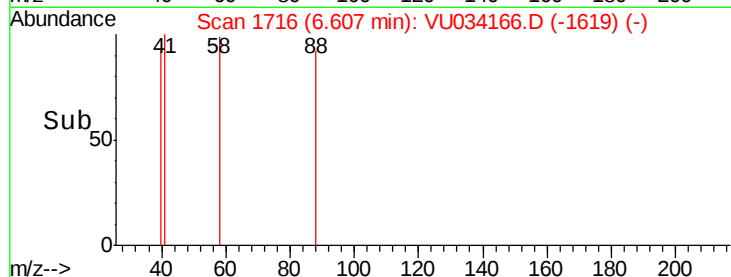
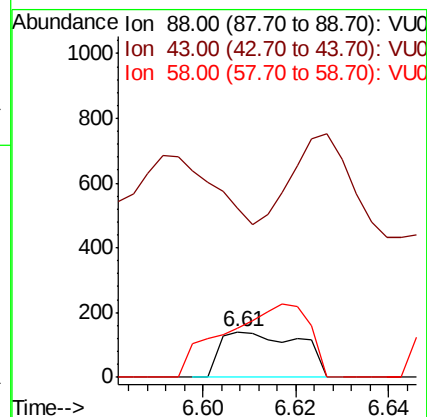
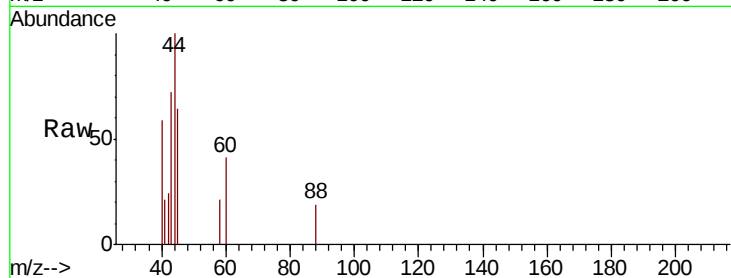
Tot Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 171.9 24.8 37.2#

58 170.7 59.3 88.9#



#50

Toluene-d8

Concen: 49.125 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034166.D

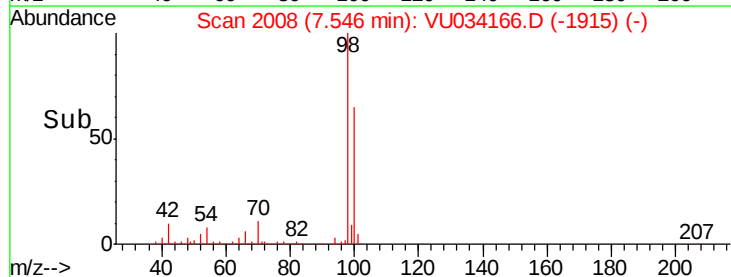
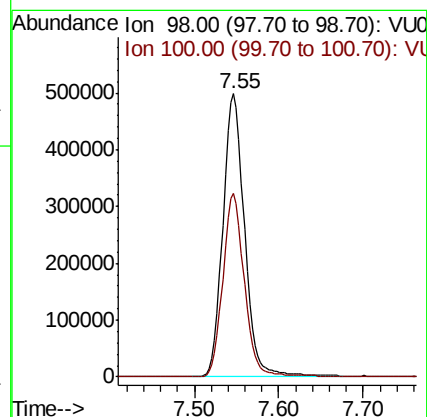
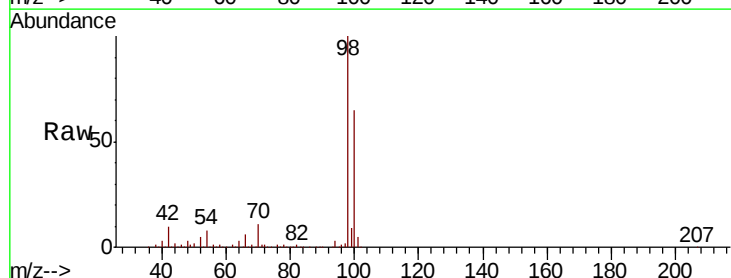
Acq: 01 Sep 2019 14:10

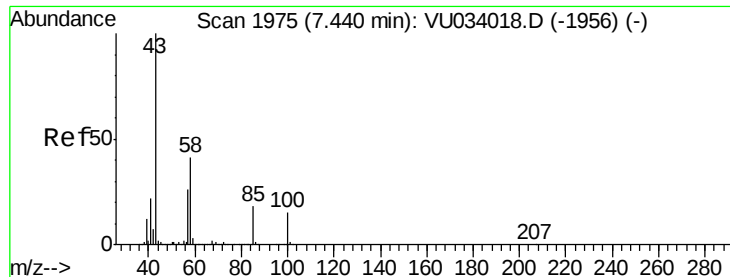
Tgt Ion: 98 Resp: 894592

Ion Ratio Lower Upper

98 100

100 64.4 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.537 ug/l

RT: 7.45 min Scan# 1977

Delta R.T. 0.01 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

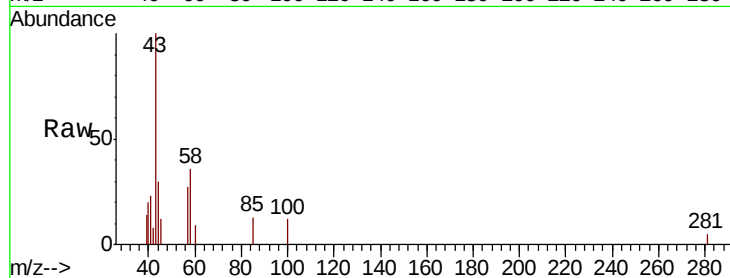
ClientSampleId :

Tot Ion: 43 Resp: 4194

Ion Ratio Lower Upper

43 100

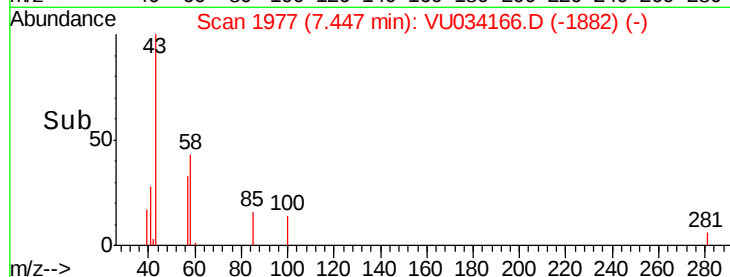
58 40.1 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1956) (-)

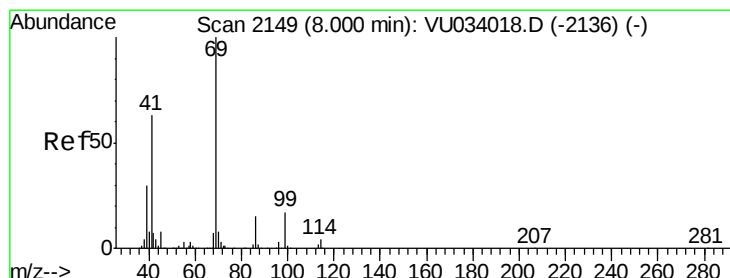
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VU034166.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU034166.D (-1882) (-)

Time-->



#56

Ethyl methacrylate

Concen: 0.992 ug/l

RT: 8.02 min Scan# 2156

Delta R.T. 0.02 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

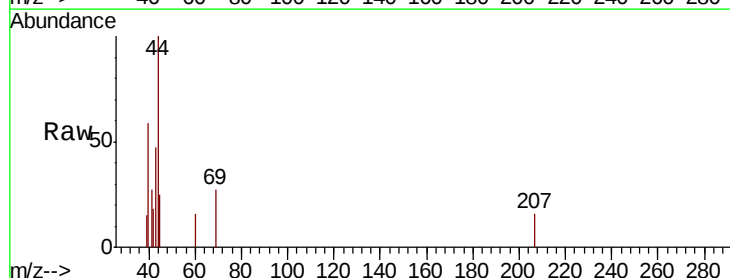
Tgt Ion: 69 Resp: 178

Ion Ratio Lower Upper

69 100

41 178.7 50.7 76.1#

39 71.3 24.2 36.2#

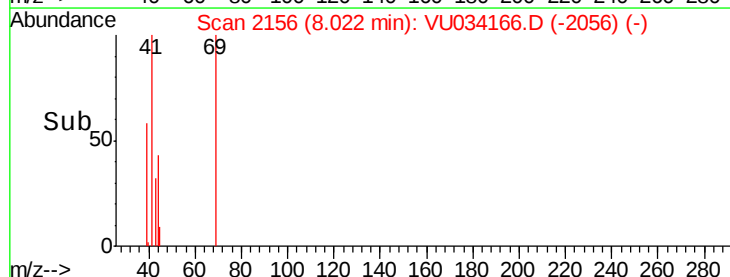


Abundance Ion 69.00 (68.70 to 69.70): VU034018.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU034018.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-2136) (-)

Time-->

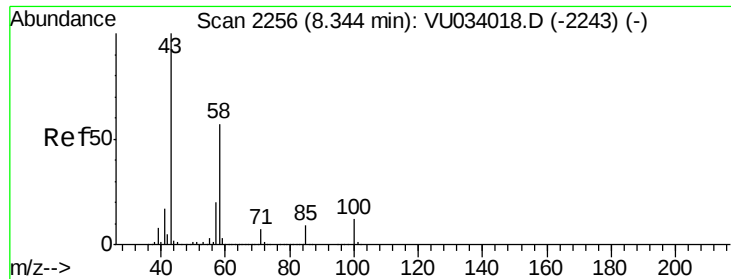


Abundance Ion 69.00 (68.70 to 69.70): VU034166.D (-2056) (-)

Ion 41.00 (40.70 to 41.70): VU034166.D (-2056) (-)

Ion 39.00 (38.70 to 39.70): VU034166.D (-2056) (-)

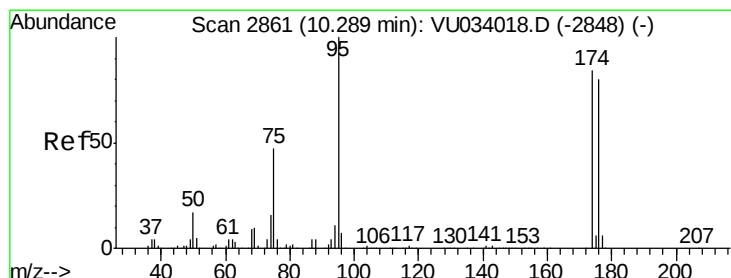
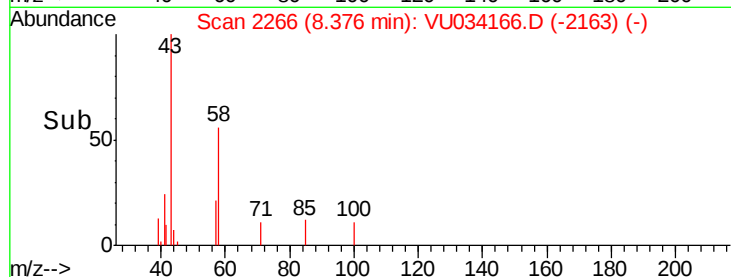
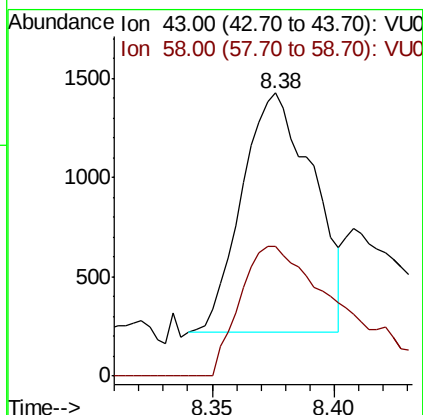
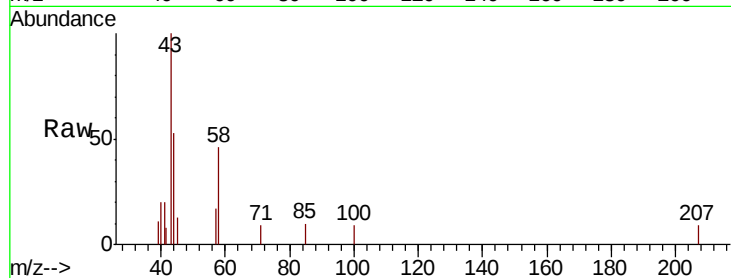
Time-->



#59
2-Hexanone
Concen: 0.418 ug/l
RT: 8.38 min Scan# 2266
Delta R.T. 0.03 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

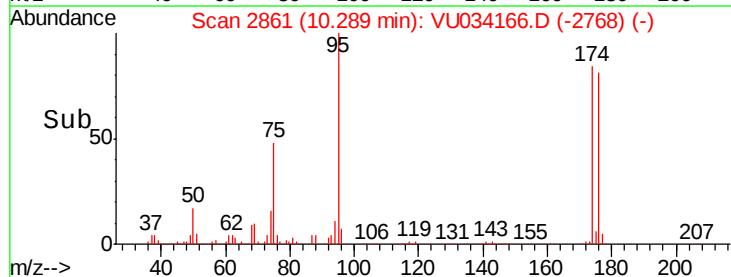
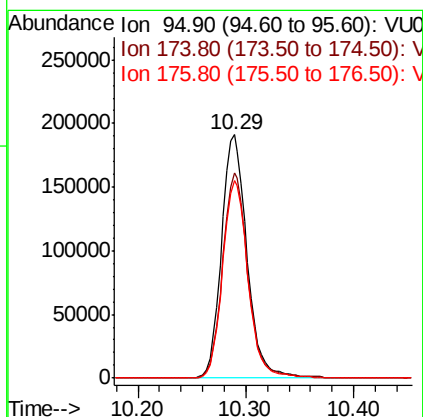
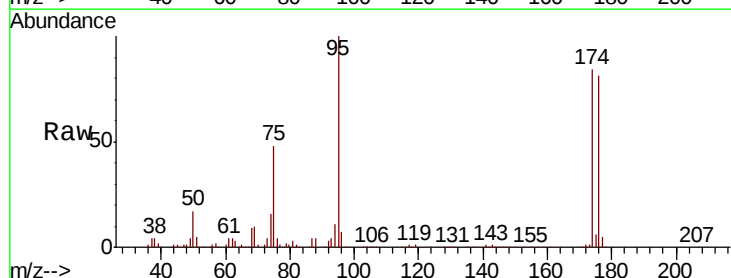
Instrument :
MSVOA_U
ClientSampled :

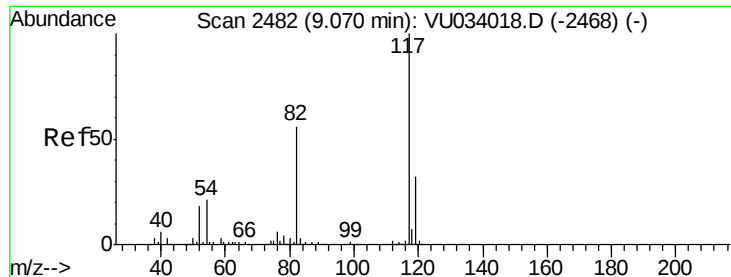
Tot Ion: 43 Resp: 2461
Ion Ratio Lower Upper
43 100
58 75.3 28.4 85.3



#62
4-Bromofluorobenzene
Concen: 44.404 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

Tgt Ion: 95 Resp: 314547
Ion Ratio Lower Upper
95 100
174 83.9 0.0 168.8
176 81.0 0.0 161.8

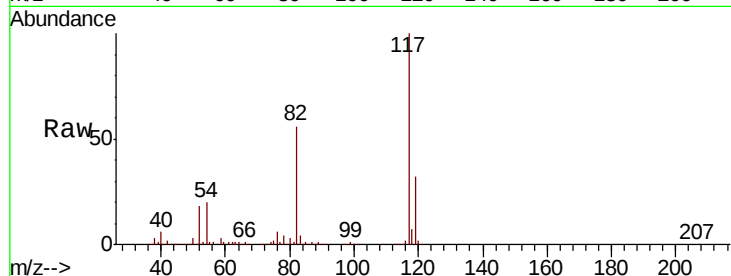




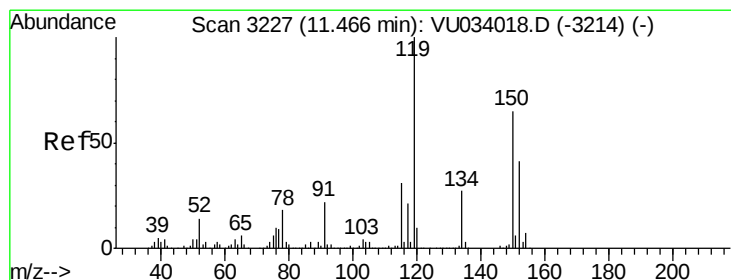
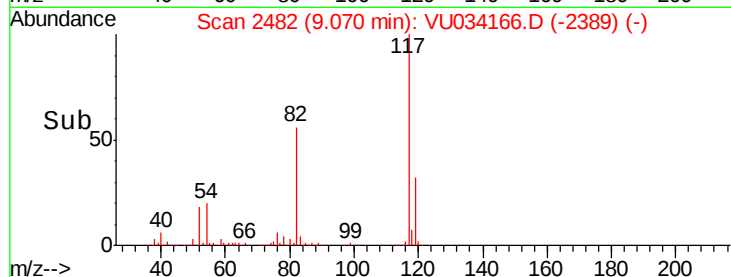
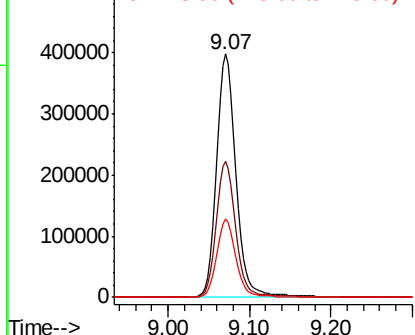
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 675664
Ion Ratio Lower Upper
117 100
82 55.9 45.1 67.7
119 32.0 25.4 38.0

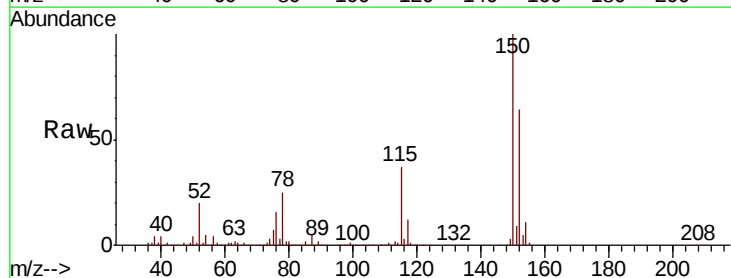


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

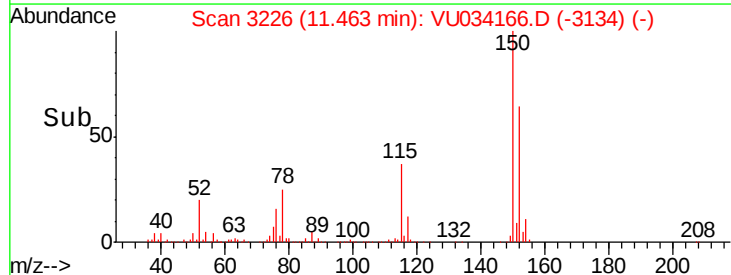
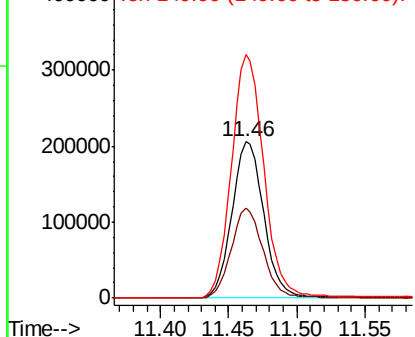


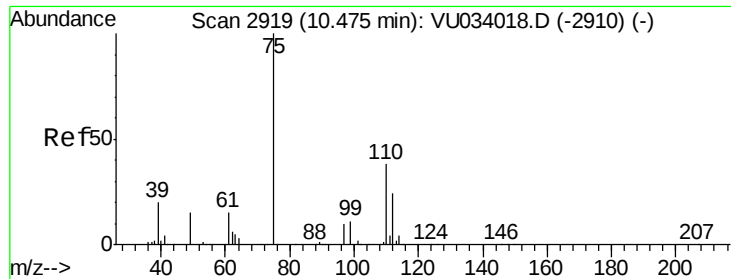
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034166.D
Acq: 01 Sep 2019 14:10

Tgt Ion:152 Resp: 335445
Ion Ratio Lower Upper
152 100
115 57.6 41.1 123.3
150 158.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

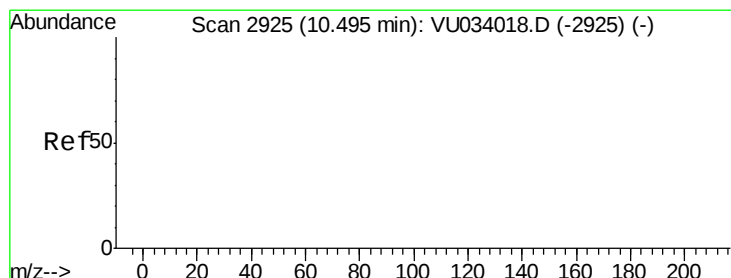
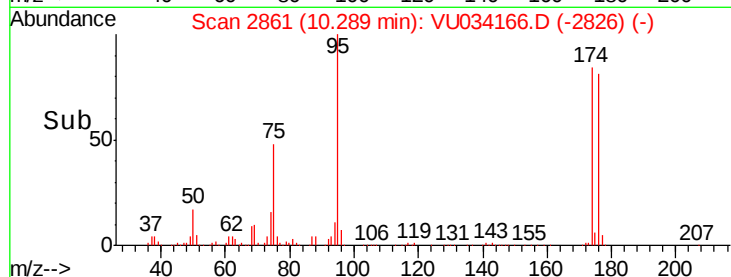
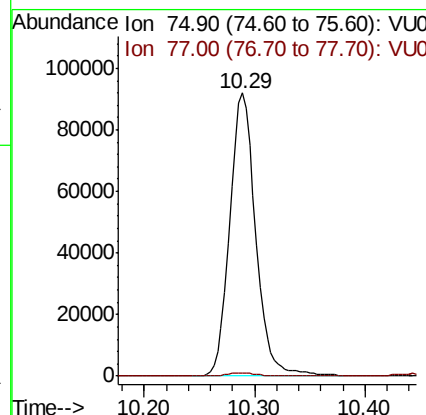
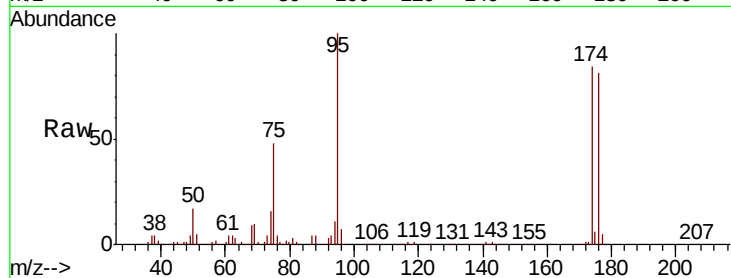




#76
 1,2,3-Trichloropropane
 Concen: 19.955 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

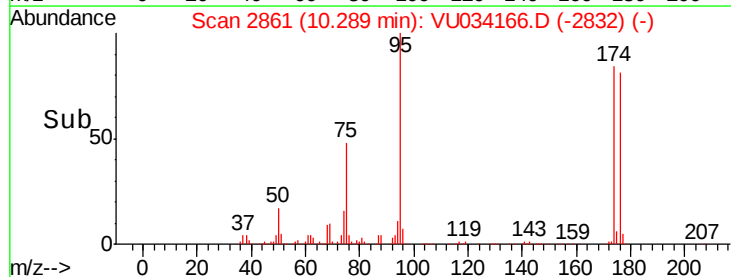
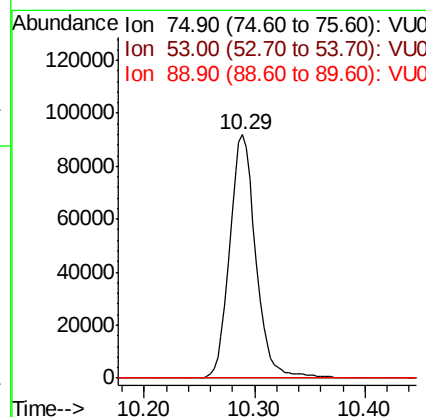
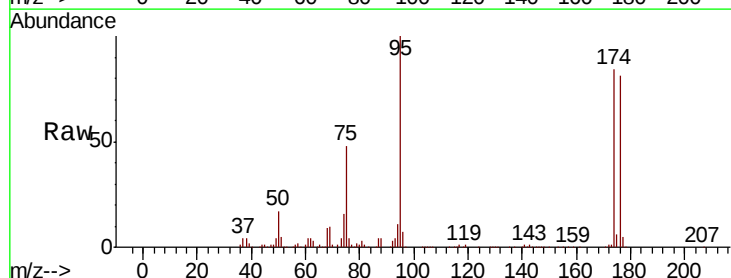
Instrument :
 MSVOA_U
 ClientSampled :

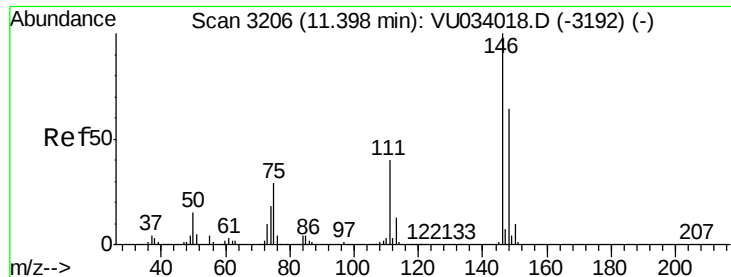
Tot Ion: 75 Resp: 150869
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.194 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

Tgt Ion: 75 Resp: 150869
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#87

1,3-Dichlorobenzene

Concen: 0.204 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

ClientSampleId :

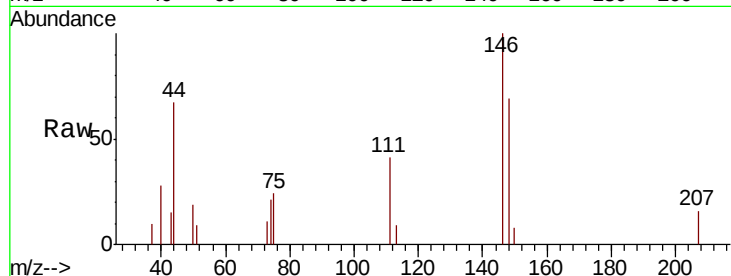
Tot Ion:146 Resp: 2185

Ion Ratio Lower Upper

146 100

111 39.0 19.9 59.6

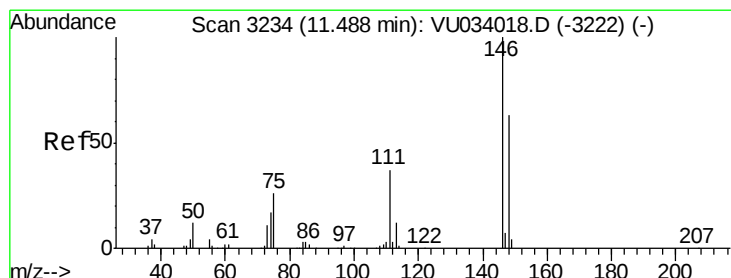
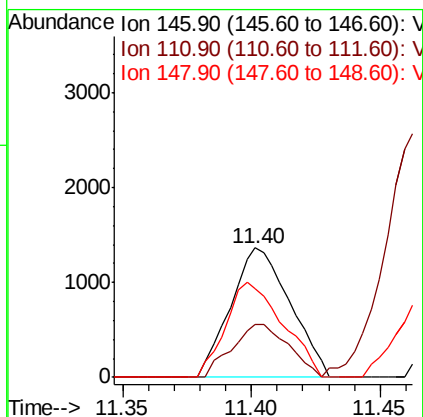
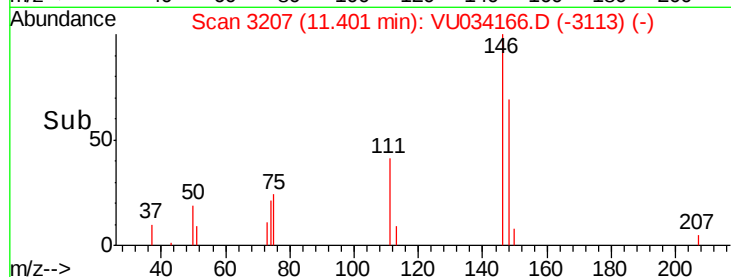
148 70.5 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.201 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. -0.09 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

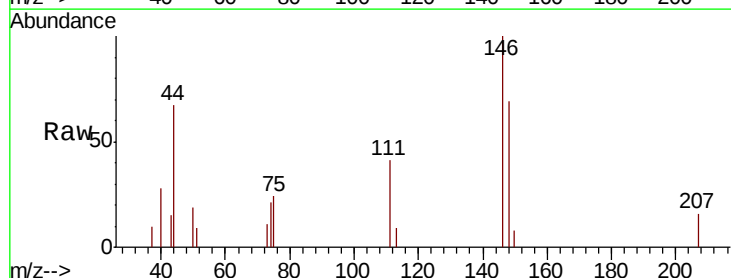
Tgt Ion:146 Resp: 2185

Ion Ratio Lower Upper

146 100

111 39.0 19.2 57.6

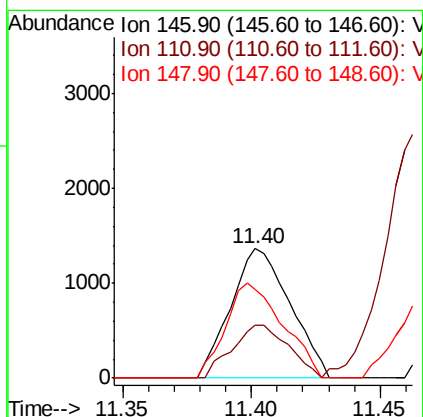
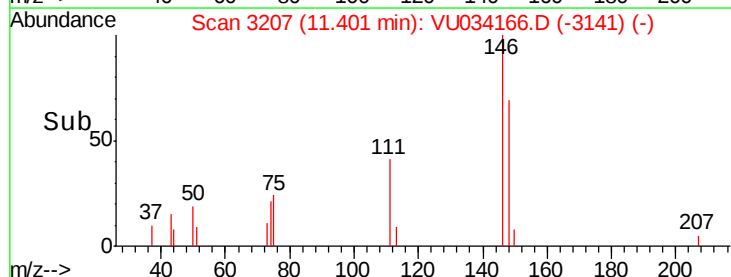
148 70.5 31.9 95.9

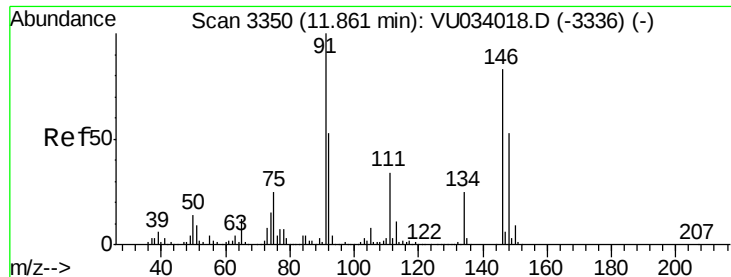


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

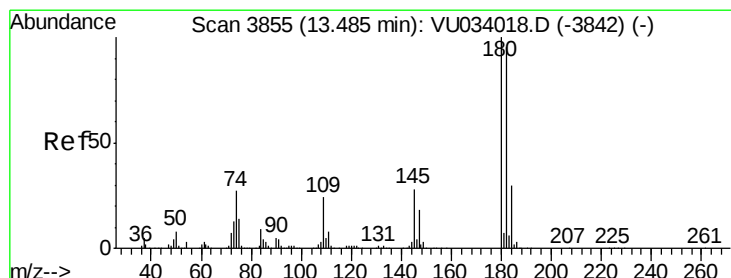
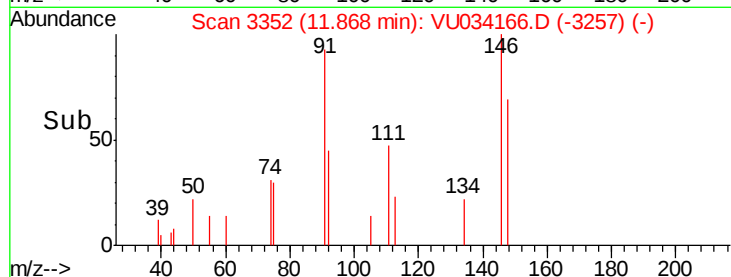
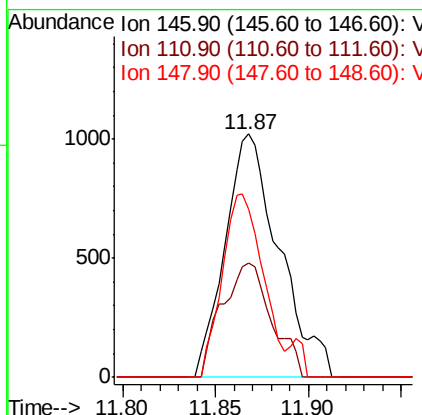
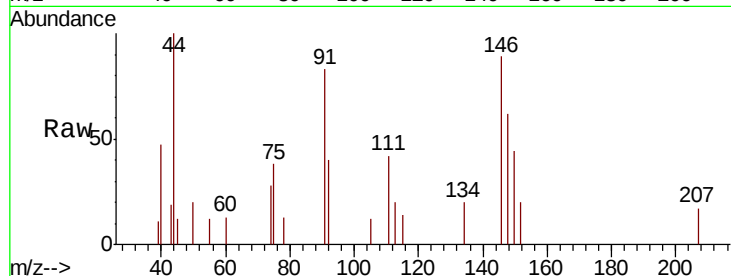




#91
 1,2-Dichlorobenzene
 Concen: 0.202 ug/l
 RT: 11.87 min Scan# 3352
 Delta R.T. 0.01 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

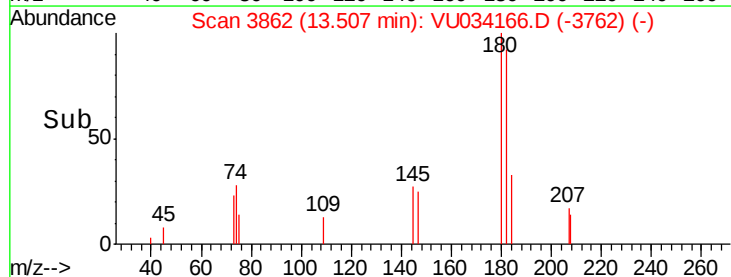
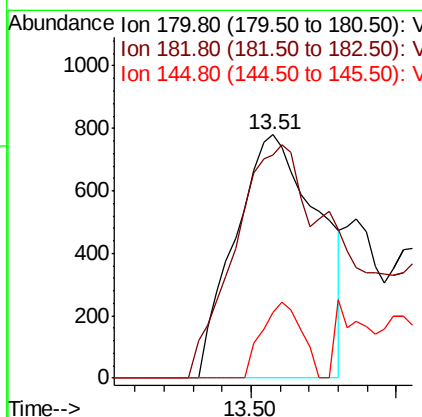
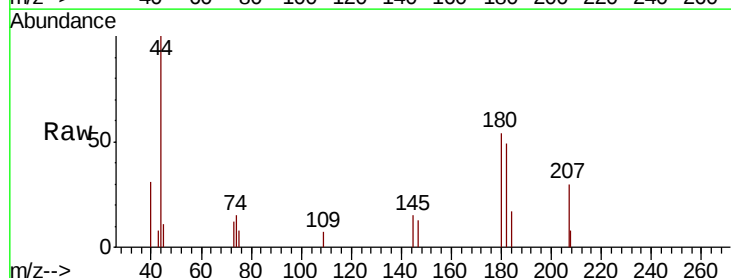
Instrument :
 MSVOA_U
 ClientSampled :

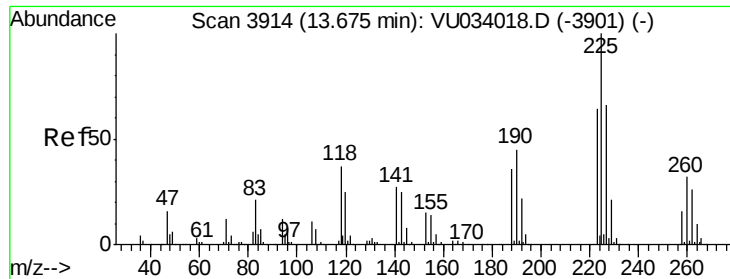
Tot Ion:146 Resp: 2072
 Ion Ratio Lower Upper
 146 100
 111 42.9 20.4 61.2
 148 56.6 32.3 96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 1.322 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.02 min
 Lab File: VU034166.D
 Acq: 01 Sep 2019 14:10

Tgt Ion:180 Resp: 1554
 Ion Ratio Lower Upper
 180 100
 182 124.6 47.4 142.2
 145 14.9 14.1 42.3





#94

Hexachlorobutadiene

Concen: 0.343 ug/l

RT: 13.67 min Scan# 3913

Delta R.T. -0.00 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

ClientSampleId :

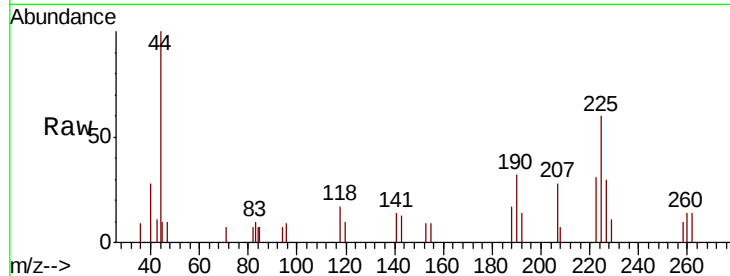
Tot Ion:225 Resp: 1380

Ion Ratio Lower Upper

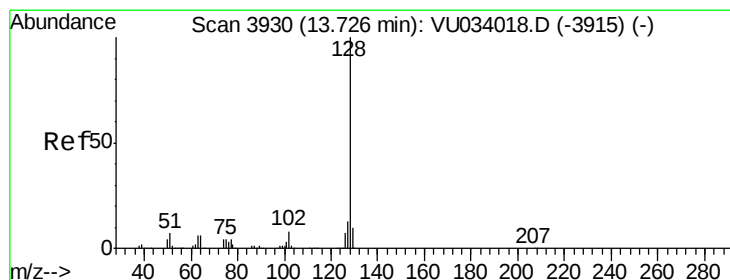
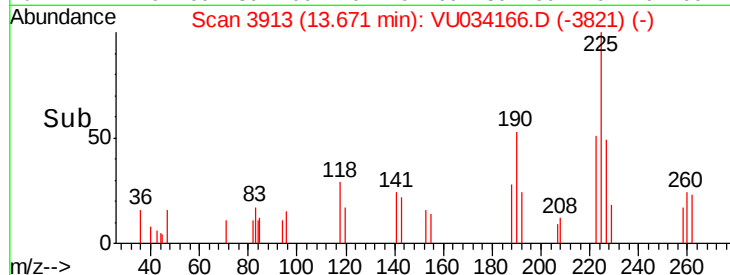
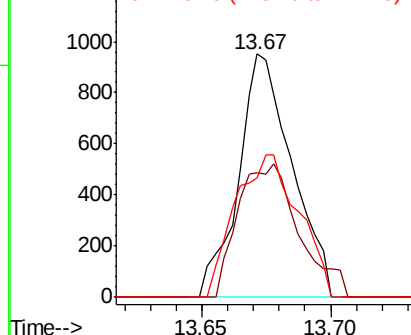
225 100

223 62.8 31.8 95.3

227 69.3 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.271 ug/l

RT: 13.75 min Scan# 3936

Delta R.T. 0.02 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

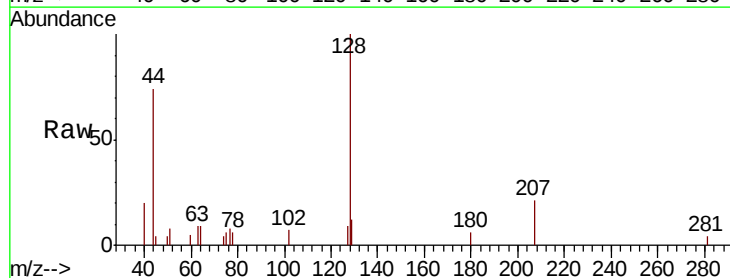
Tgt Ion:128 Resp: 10454

Ion Ratio Lower Upper

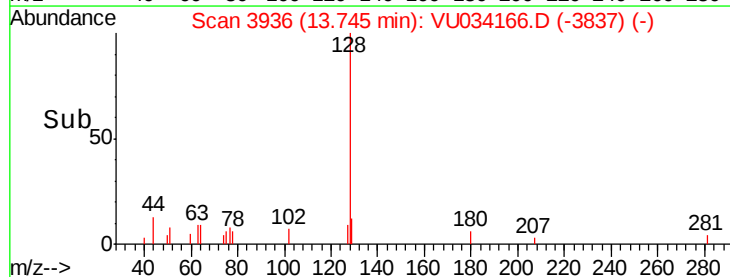
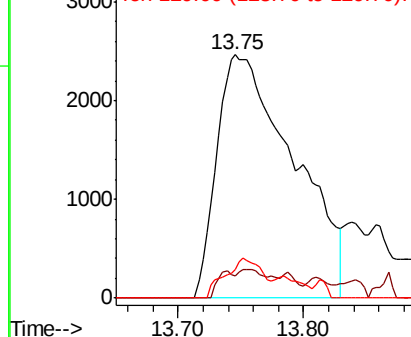
128 100

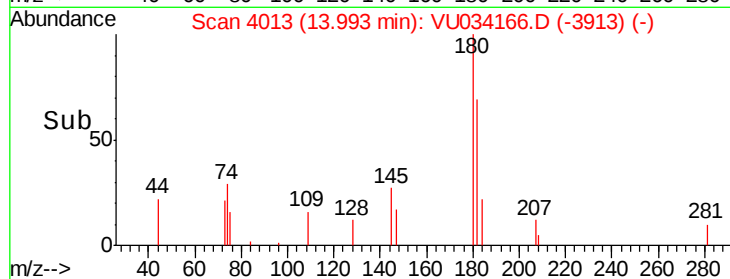
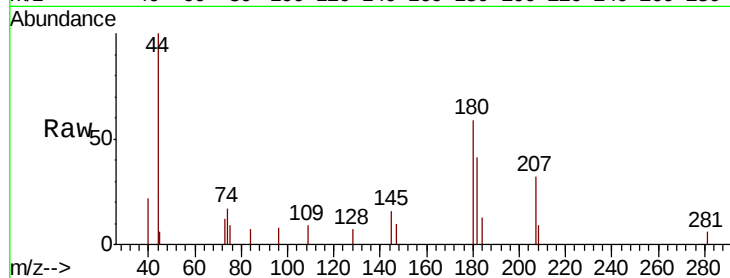
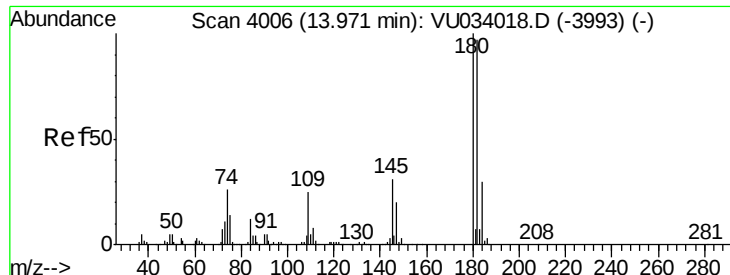
127 2.5 10.2 15.4#

129 0.0 8.4 12.6#



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





#96

1,2,3-Trichlorobenzene

Concen: 0.489 ug/l

RT: 13.99 min Scan# 4013

Delta R.T. 0.02 min

Lab File: VU034166.D

Acq: 01 Sep 2019 14:10

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:180 Resp: 3222

Ion Ratio Lower Upper

180 100

182 85.0 48.2 144.6

145 24.8 15.5 46.5

