

Data File : VU034490.D
Acq On : 11 Sep 2019 21:25
Operator : JC/SP
Sample : K4643-35
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

Quant Time: Sep 12 04:44:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	248538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	376384	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	402617	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	219168	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	228046	60.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.28%	
35) Dibromofluoromethane	4.86	113	195291	55.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.52%	
50) Toluene-d8	7.55	98	725684	55.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.30%	
62) 4-Bromofluorobenzene	10.29	95	246663	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	

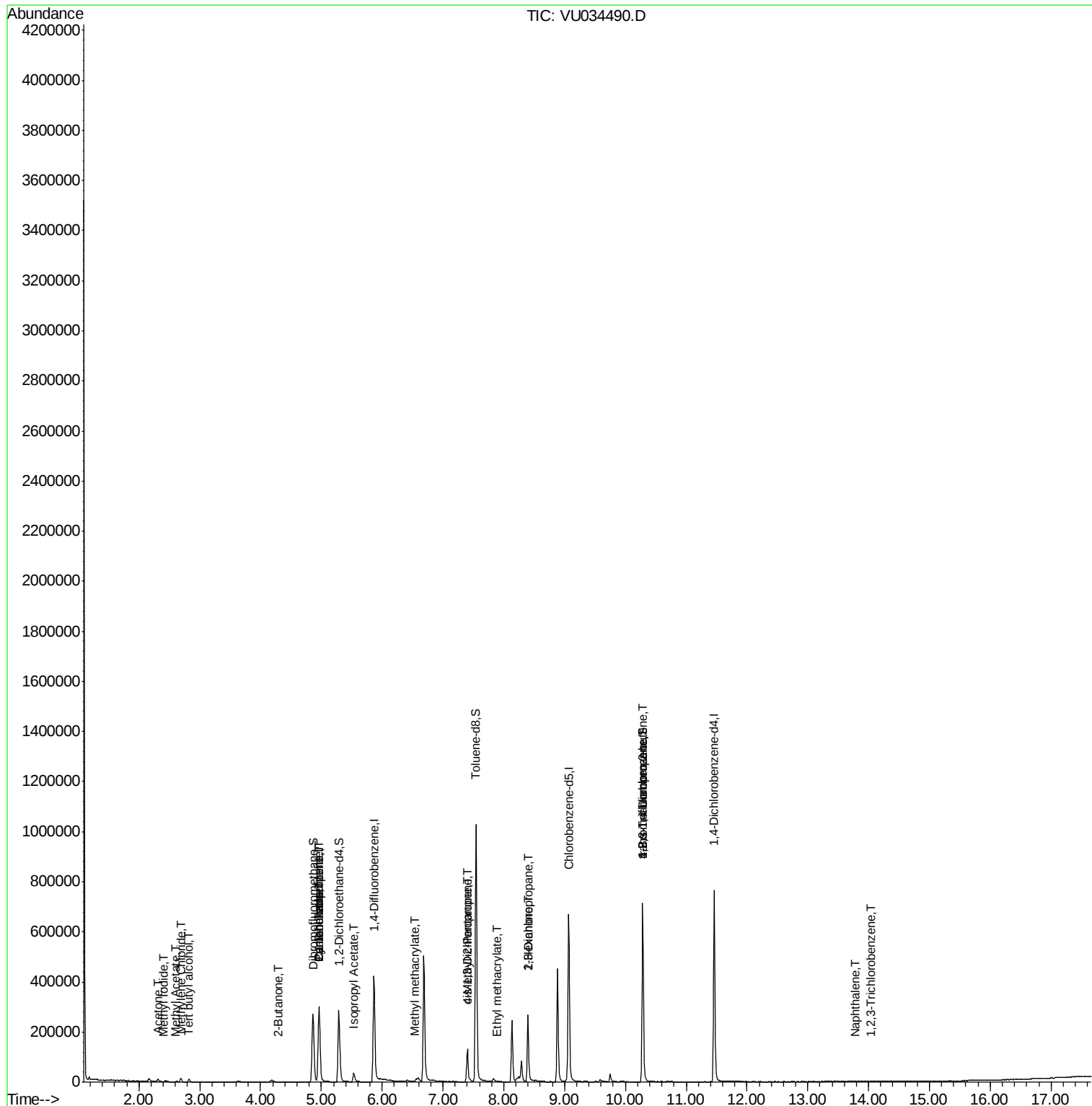
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	252	Below Cal	#	54
6) Chloroethane	1.66	64	217	Below Cal	#	43
10) Methyl Iodide	2.40	142	311	3.956	ug/l #	51
11) Tert butyl alcohol	2.83	59	5412	6.812	ug/l #	73
16) Acetone	2.31	43	10716	5.507	ug/l	90
18) Methyl Acetate	2.61	43	2645	0.559	ug/l	97
20) Methylene Chloride	2.69	84	6202	1.559	ug/l	86
25) 2-Butanone	4.29	43	537	0.207	ug/l #	48
31) Cyclohexane	4.96	56	4338	0.985	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16926	4.147	ug/l #	49
38) Carbon Tetrachloride	4.96	117	22891	5.252	ug/l #	17
43) Isopropyl Acetate	5.53	43	43493	5.777	ug/l	98
48) Methyl methacrylate	6.53	41	4499	1.258	ug/l #	13
51) 4-Methyl-2-Pentanone	7.40	43	44651	8.568	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	24946	4.407	ug/l #	64
56) Ethyl methacrylate	7.89	69	249	3.118	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3233	0.529	ug/l #	43
59) 2-Hexanone	8.40	43	36310	9.327	ug/l #	56
76) 1,2,3-Trichloropropane	10.29	75	113929	23.814	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	113929	80.086	ug/l #	100
95) Naphthalene	13.78	128	70	3.970	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.03	180	44	2.647	ug/l #	12

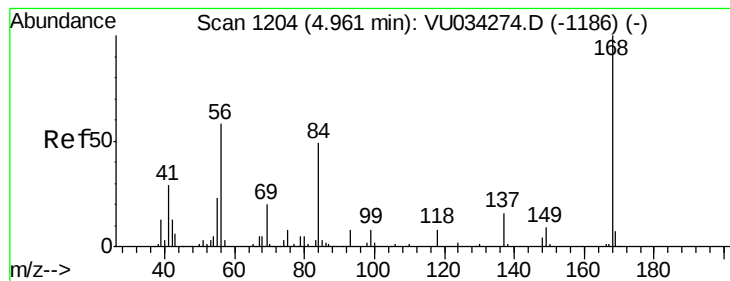
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

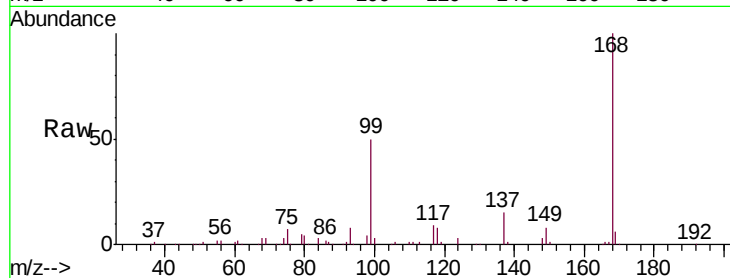
T11-C1-(4)

Tgt Ion:168 Resp: 248538

Ion Ratio Lower Upper

168 100

99 50.2 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034490.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034490.D (-1111) (-)

4.96

120000

100000

80000

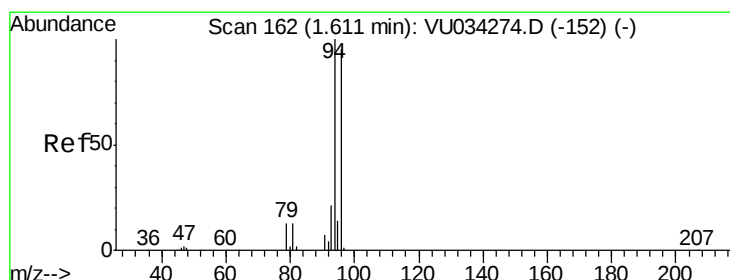
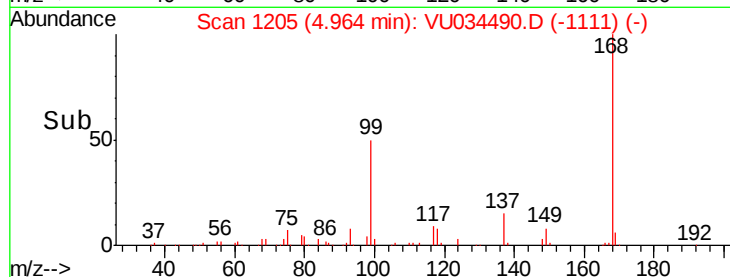
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034490.D

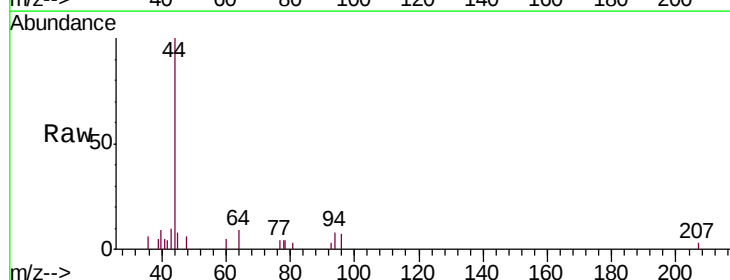
Acq: 11 Sep 2019 21:25

Tgt Ion: 94 Resp: 252

Ion Ratio Lower Upper

94 100

96 50.2 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034490.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034490.D (-68) (-)

1.63

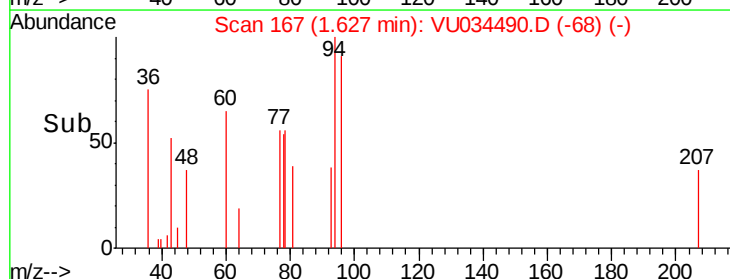
300

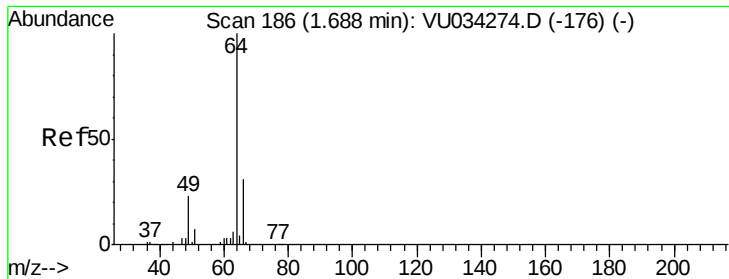
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 177

Delta R.T. -0.03 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

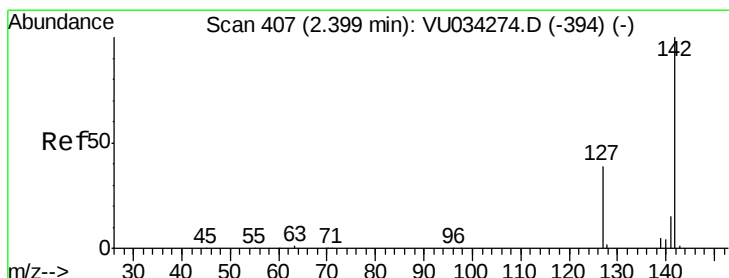
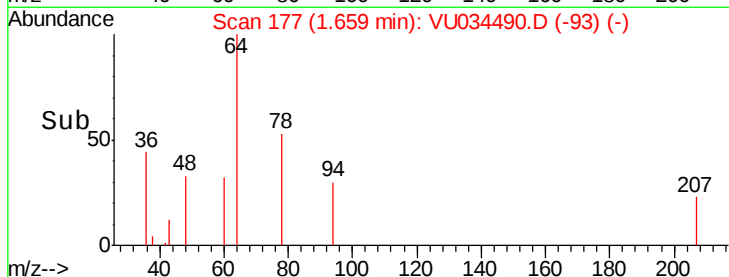
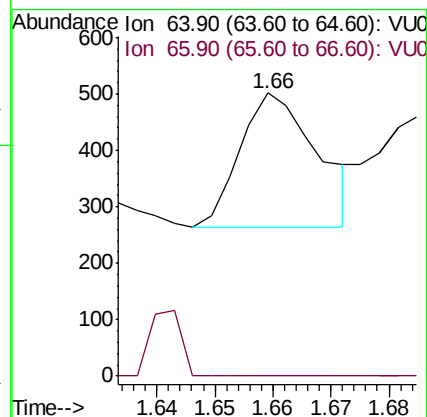
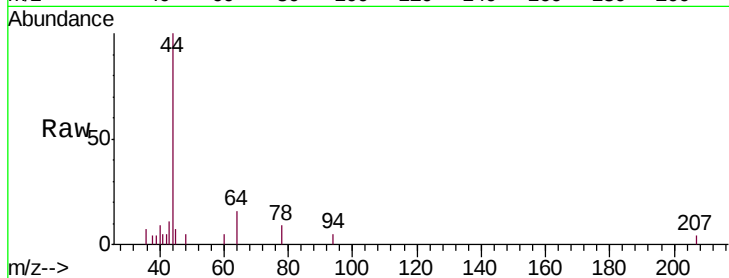
T11-C1-(4)

Tgt Ion: 64 Resp: 217

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.956 ug/l

RT: 2.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

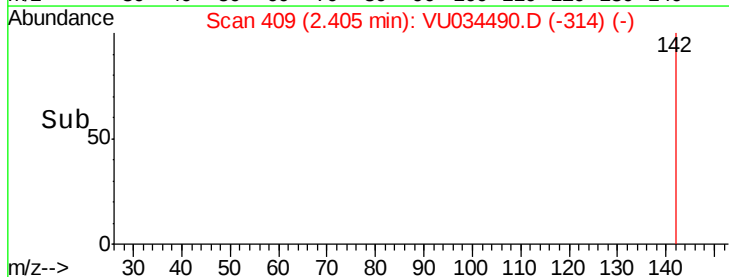
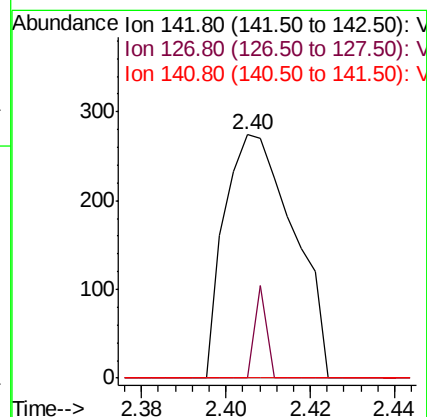
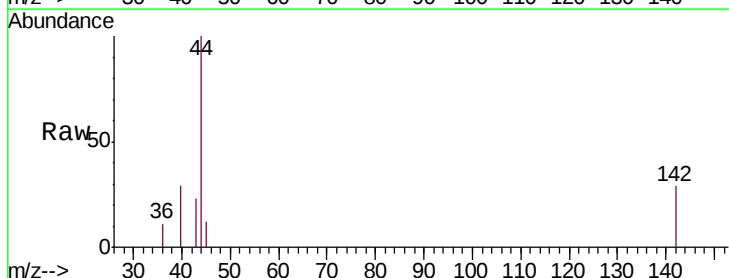
Tgt Ion: 142 Resp: 311

Ion Ratio Lower Upper

142 100

127 6.4 32.1 48.1#

141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 6.812 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

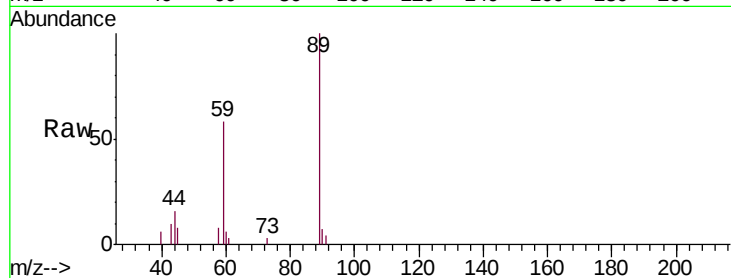
T11-C1-(4)

Tgt Ion: 59 Resp: 5412

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034490.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034490.D (-519) (-)

2.83

2500

2000

1500

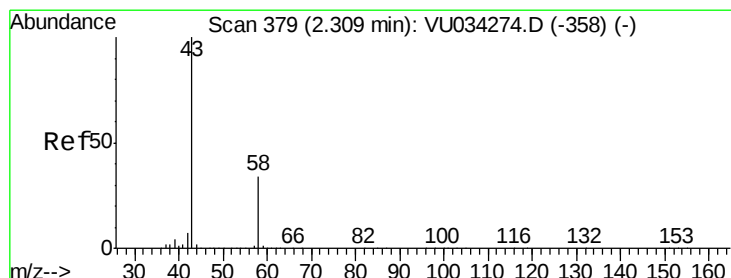
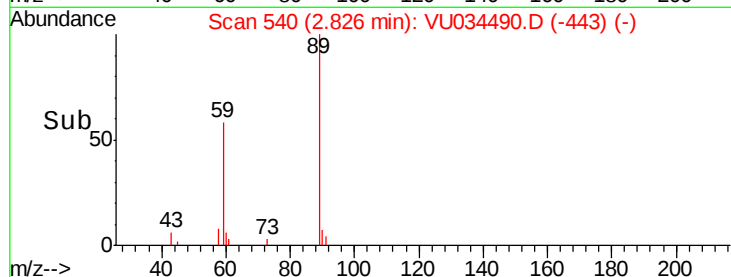
1000

500

0

2.75 2.80 2.85 2.90

Time-->



#16

Acetone

Concen: 5.507 ug/l

RT: 2.31 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034490.D

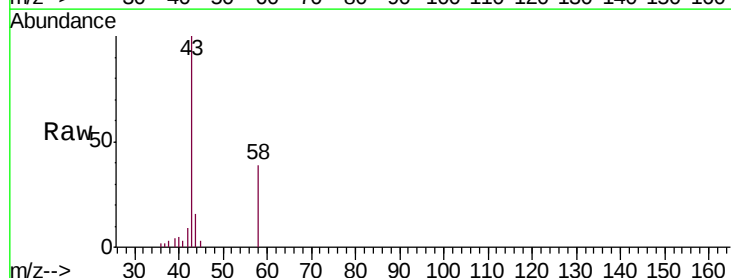
Acq: 11 Sep 2019 21:25

Tgt Ion: 43 Resp: 10716

Ion Ratio Lower Upper

43 100

58 40.3 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034490.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034490.D (-358) (-)

2.31

6000

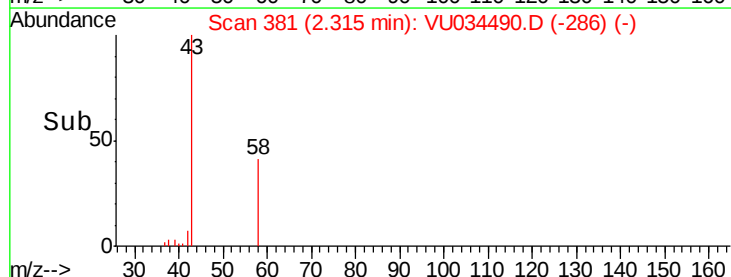
4000

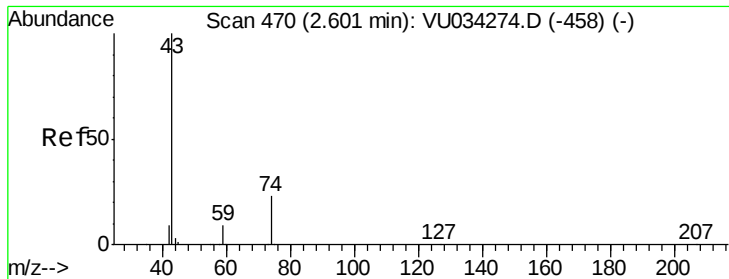
2000

0

2.25 2.30 2.35

Time-->

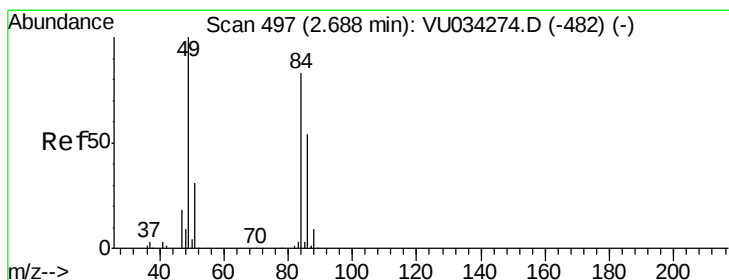
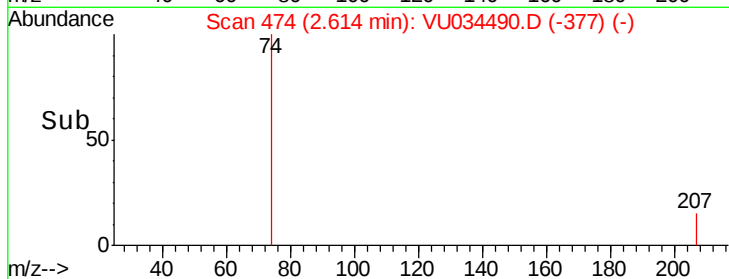
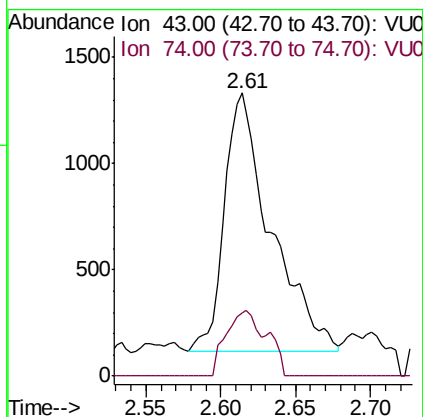
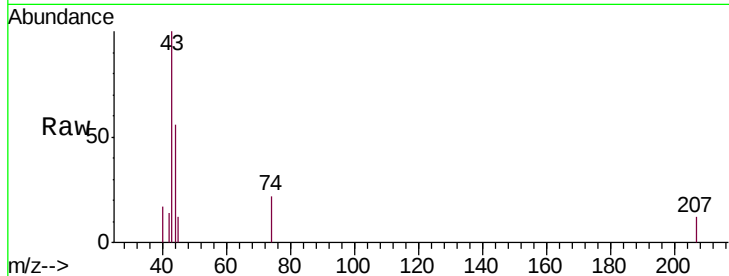




#18
Methyl Acetate
Concen: 0.559 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

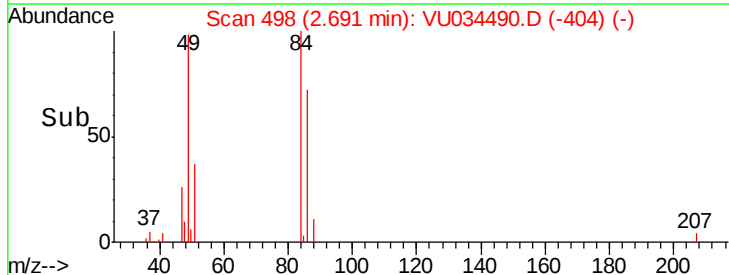
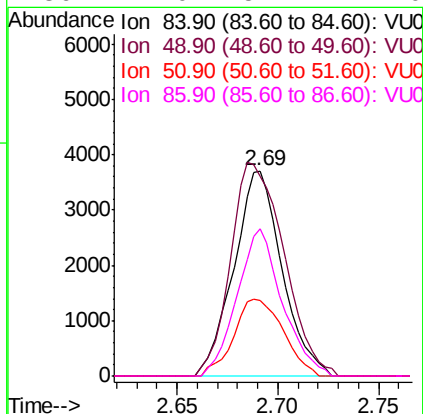
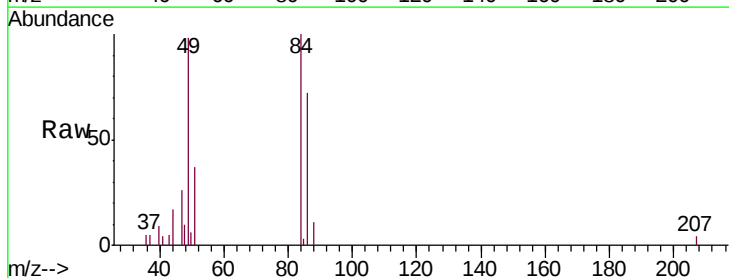
Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

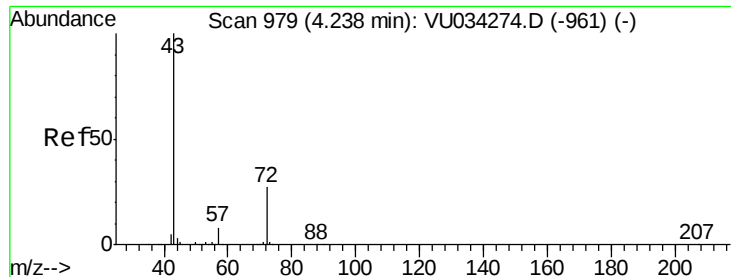
Tgt Ion: 43 Resp: 2645
Ion Ratio Lower Upper
43 100
74 21.9 18.9 28.3



#20
Methylene Chloride
Concen: 1.559 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Tgt Ion: 84 Resp: 6202
Ion Ratio Lower Upper
84 100
49 97.6 96.0 144.0
51 36.7 30.0 45.0
86 72.0 51.4 77.0





#25

2-Butanone

Concen: 0.207 ug/l

RT: 4.29 min Scan# 996

Delta R.T. 0.05 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

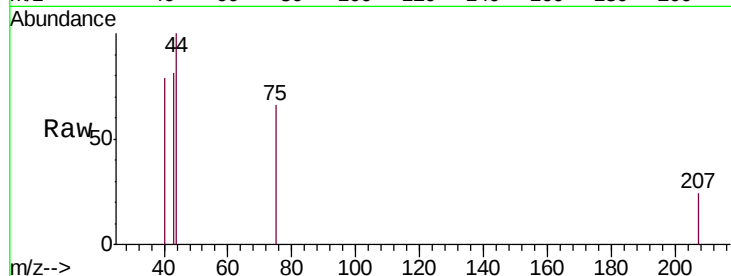
T11-C1-(4)

Tgt Ion: 43 Resp: 537

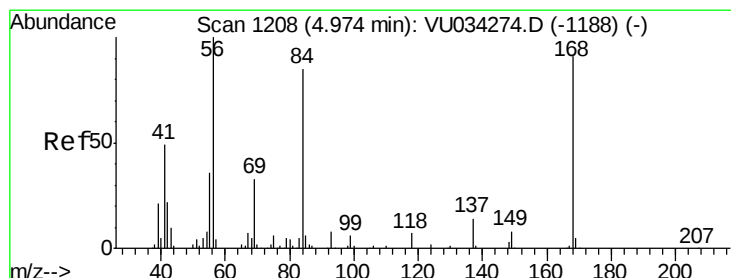
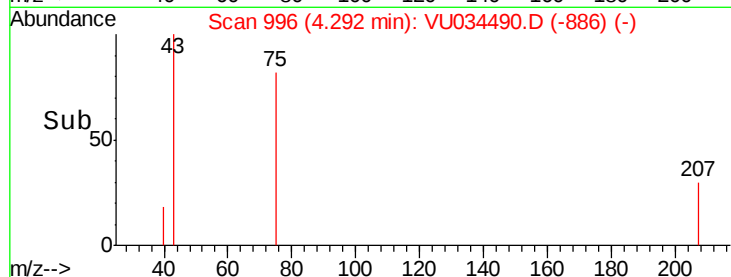
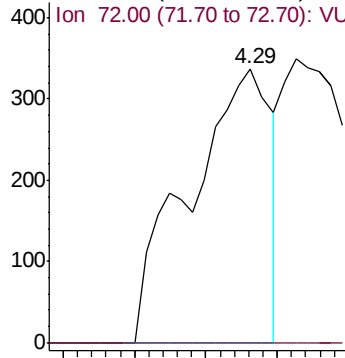
Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VU034490.D (-886) (-)



#31

Cyclohexane

Concen: 0.985 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

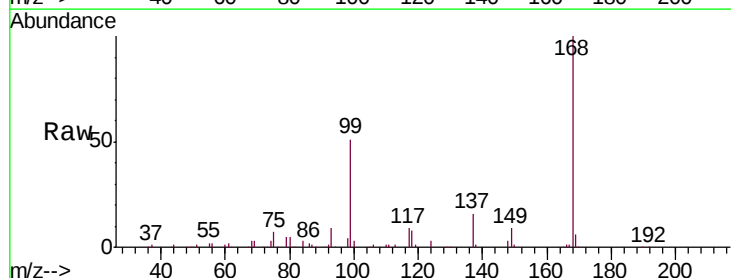
Tgt Ion: 56 Resp: 4338

Ion Ratio Lower Upper

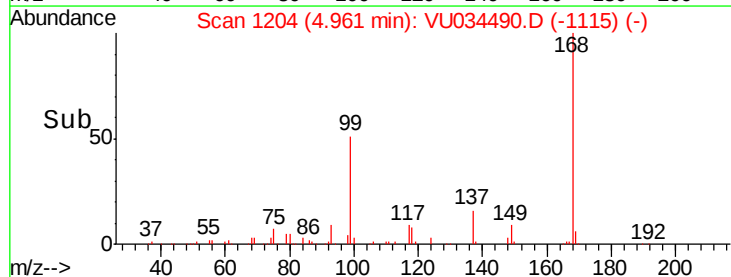
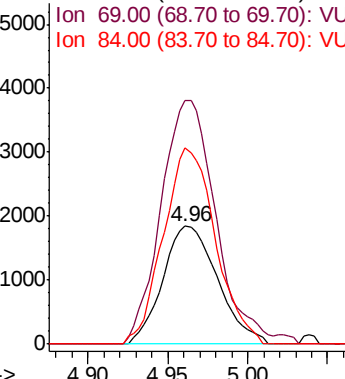
56 100

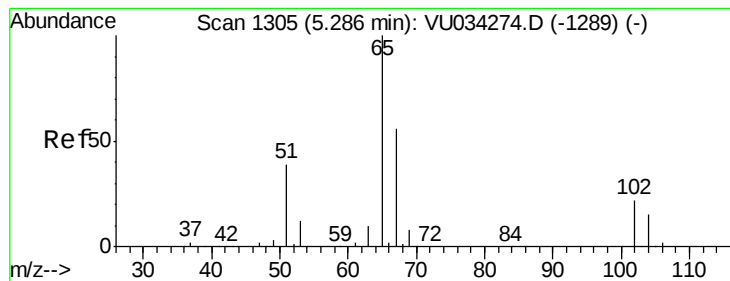
69 207.0 26.7 40.1#

84 166.7 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034490.D (-1115) (-)





#33

1,2-Dichloroethane-d4

Concen: 60.643 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

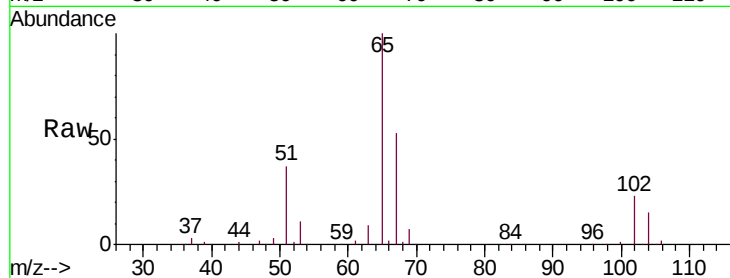
T11-C1-(4)

Tgt Ion: 65 Resp: 228046

Ion Ratio Lower Upper

65 100

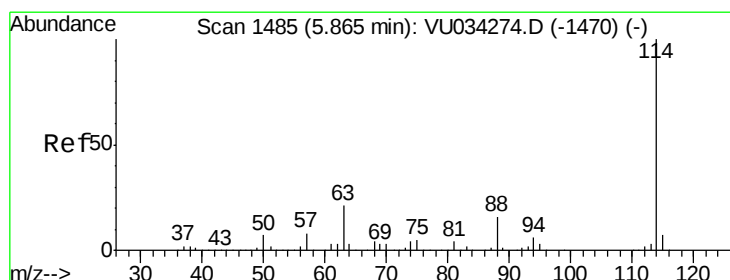
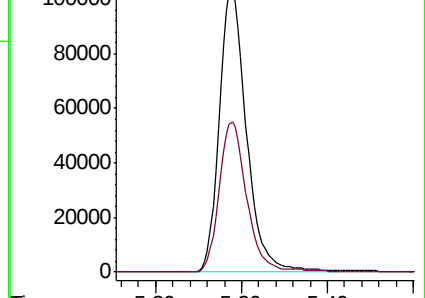
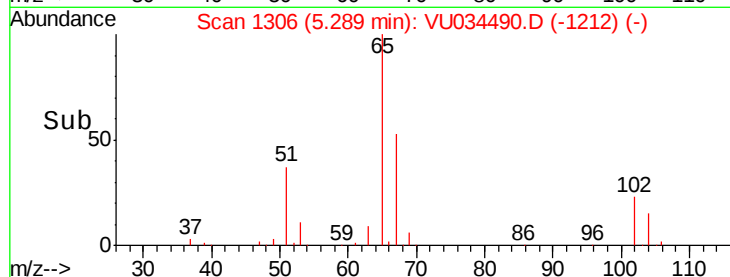
67 54.1 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034490.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034490.D (-1289) (-)

5.29



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

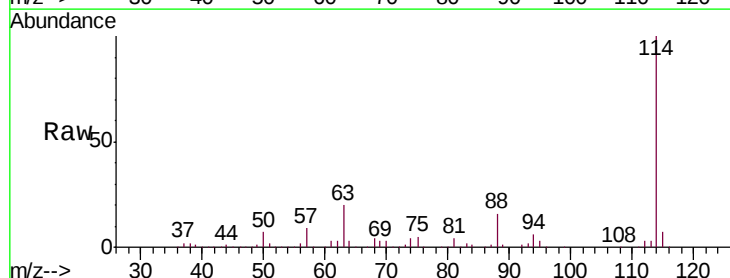
Tgt Ion: 114 Resp: 376384

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

88 16.3 0.0 32.4

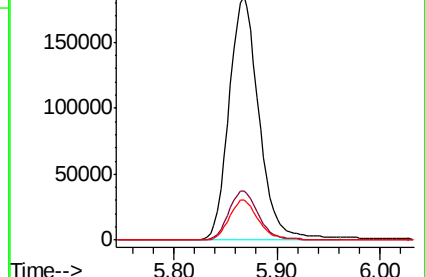
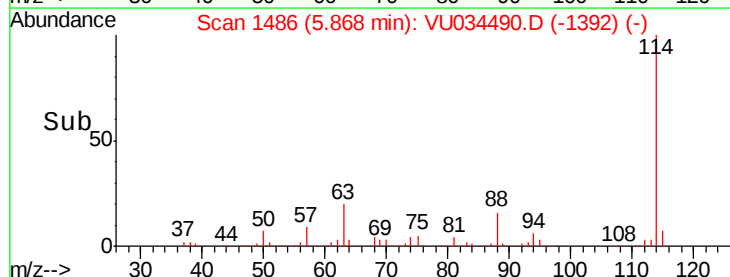


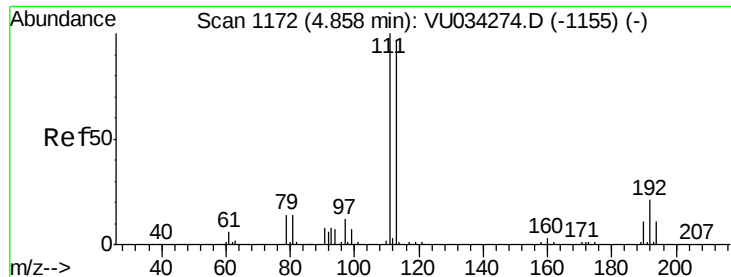
Abundance Ion 113.90 (113.60 to 114.60): VU034490.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034490.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034490.D (-1392) (-)

5.87

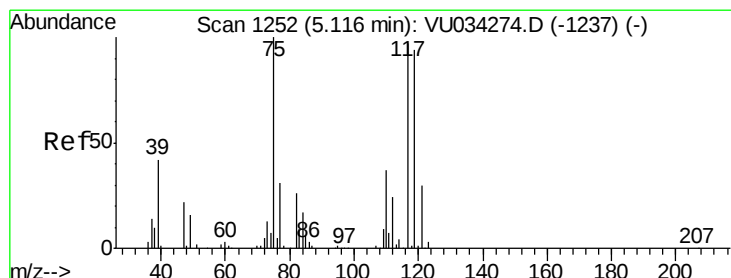
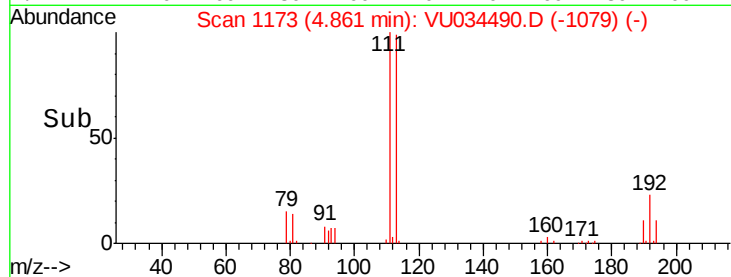
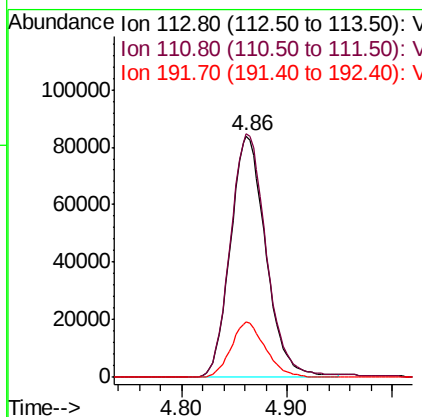
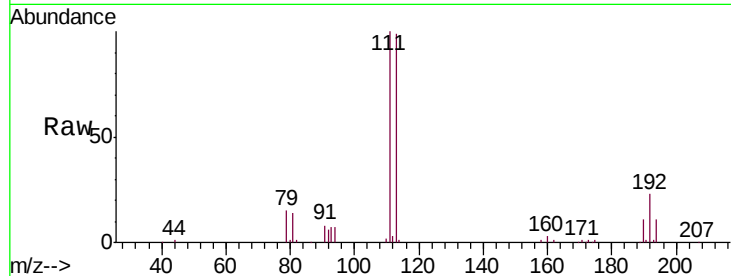




#35
 Dibromofluoromethane
 Concen: 55.761 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034490.D
 Acq: 11 Sep 2019 21:25

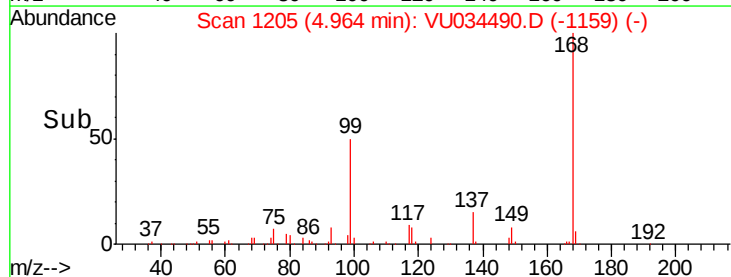
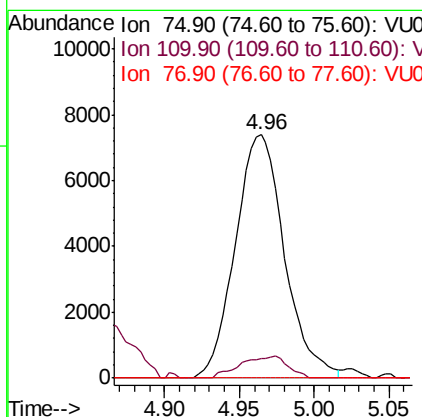
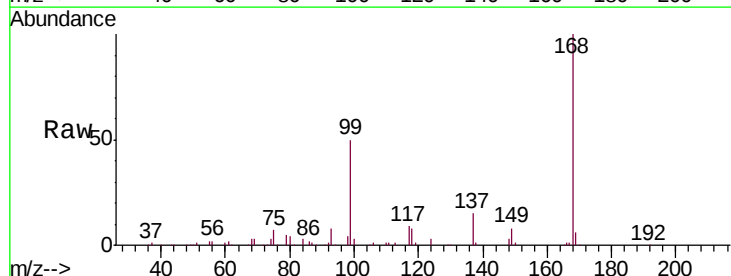
Instrument :
 MSVOA_U
 ClientSampled :
 T11-C1-(4)

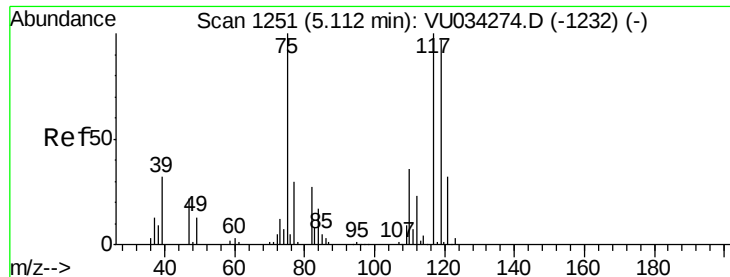
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.5	122.3
192	22.2	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.147 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034490.D
 Acq: 11 Sep 2019 21:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.3	54.9#
77	0.0	24.9	37.3#

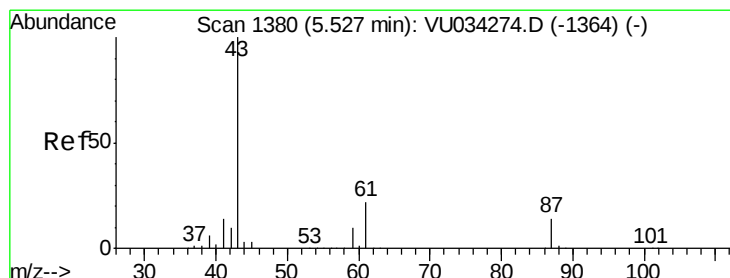
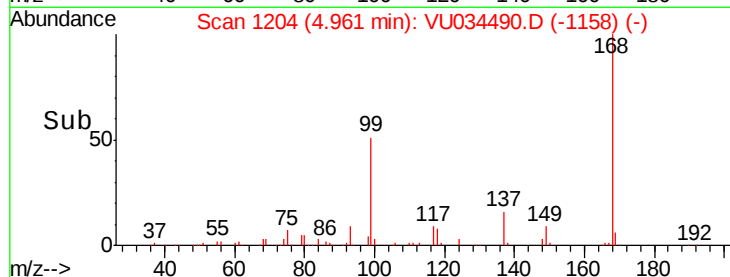
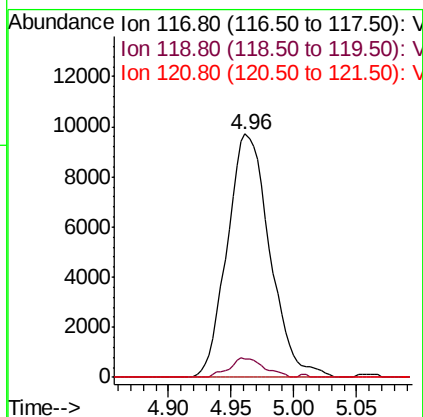
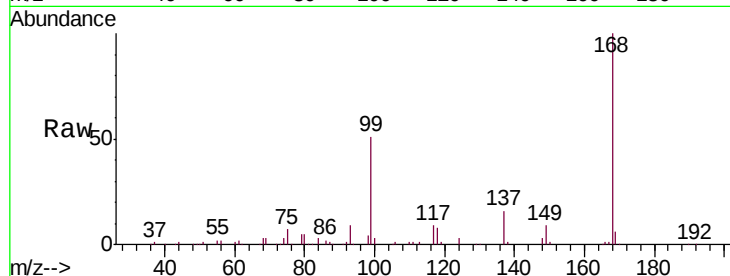




#38
Carbon Tetrachloride
Concen: 5.252 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

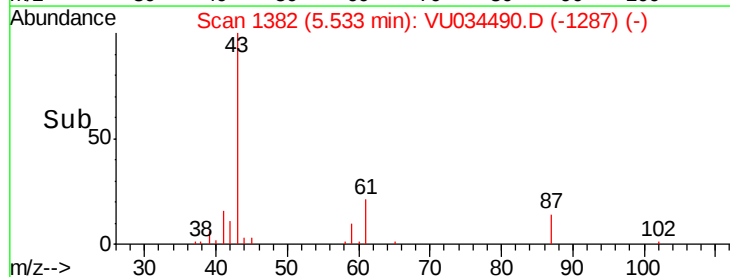
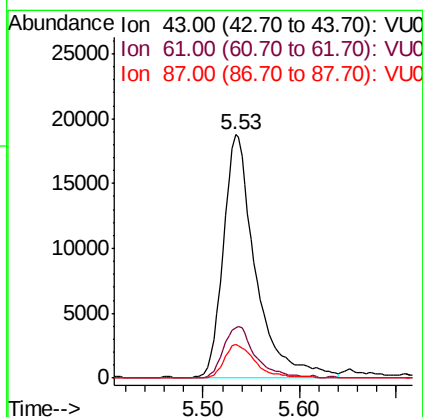
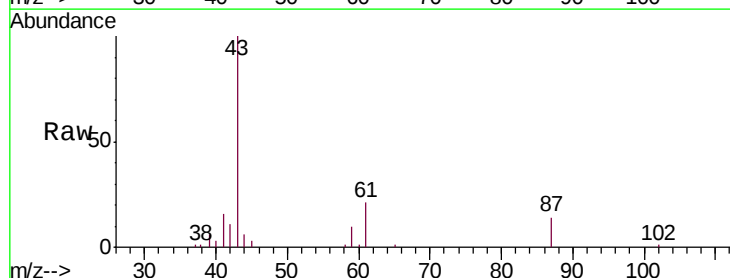
Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

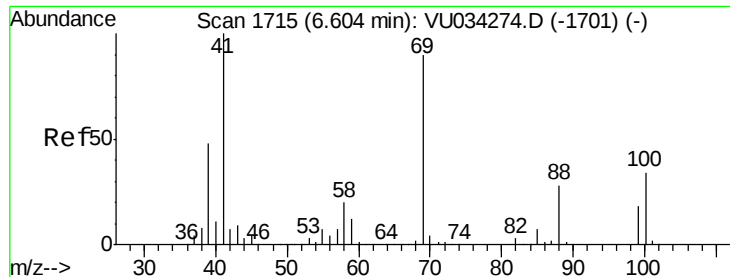
Tgt Ion:117 Resp: 22891
Ion Ratio Lower Upper
117 100
119 7.7 77.8 116.6#
121 0.0 25.2 37.8#



#43
Isopropyl Acetate
Concen: 5.777 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Tgt Ion: 43 Resp: 43493
Ion Ratio Lower Upper
43 100
61 20.8 17.1 25.7
87 13.2 11.1 16.7

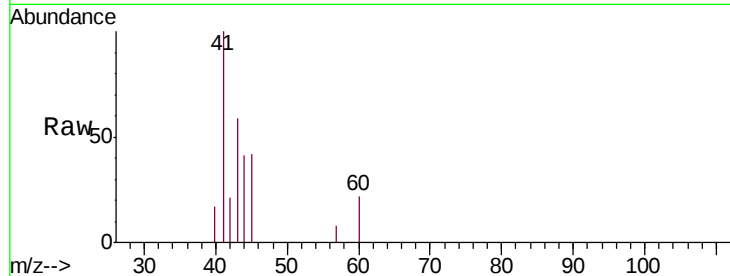




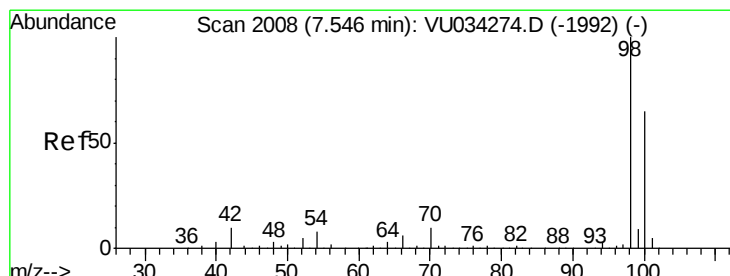
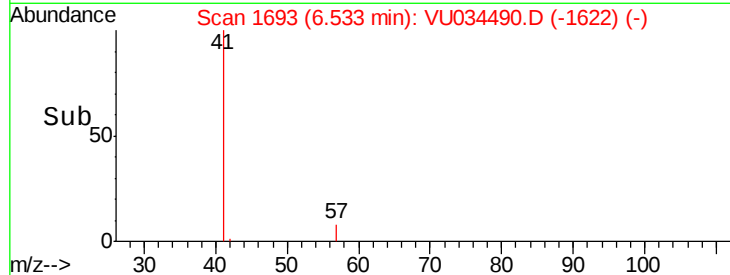
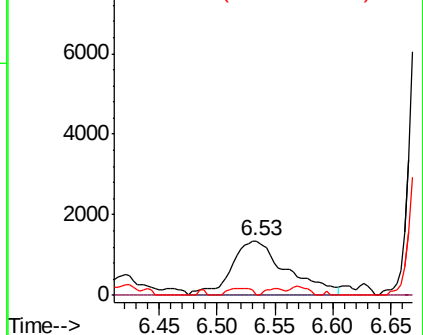
#48
Methyl methacrylate
Concen: 1.258 ug/l
RT: 6.53 min Scan# 1693
Delta R.T. -0.07 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

Tgt Ion: 41 Resp: 4499
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#

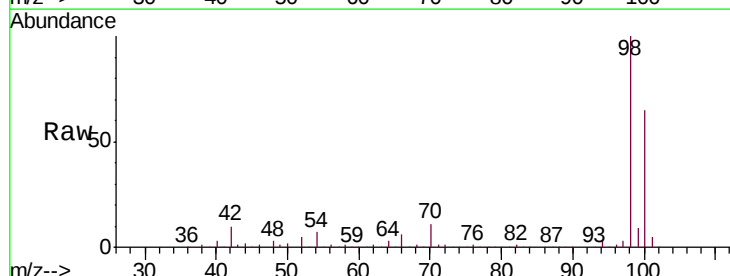


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

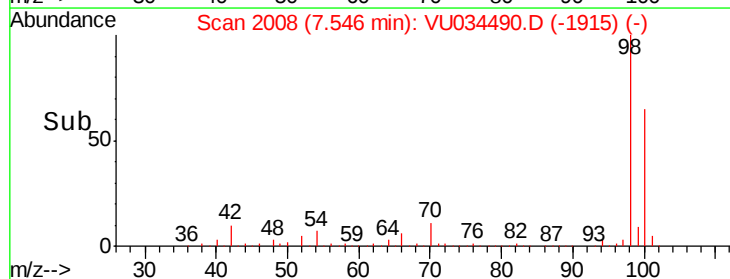
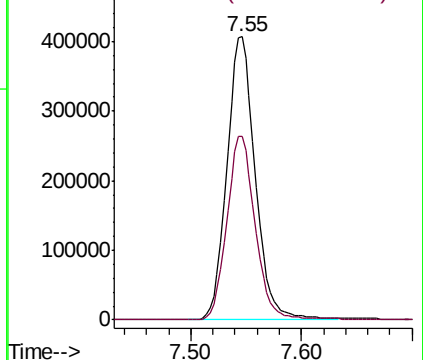


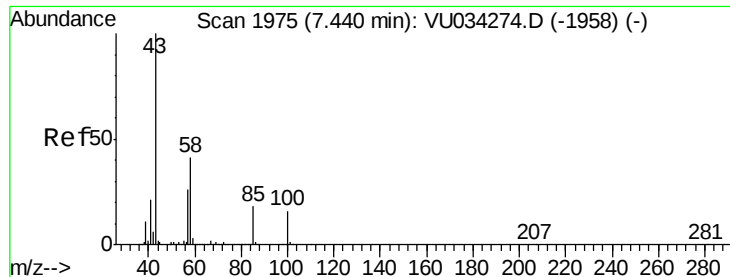
#50
Toluene-d8
Concen: 55.151 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Tgt Ion: 98 Resp: 725684
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 8.568 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

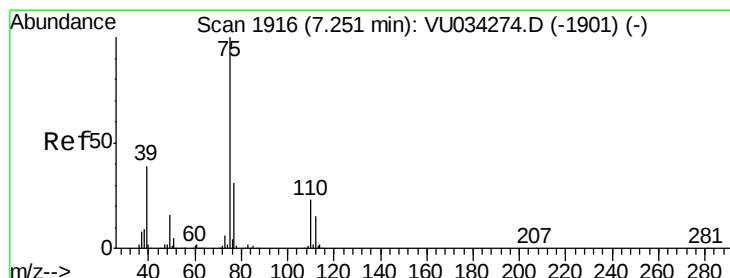
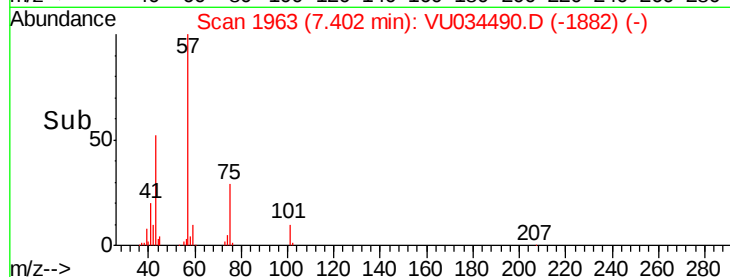
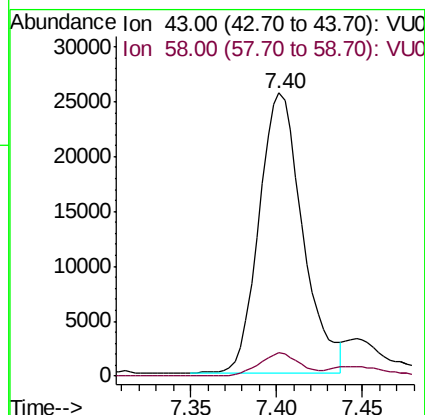
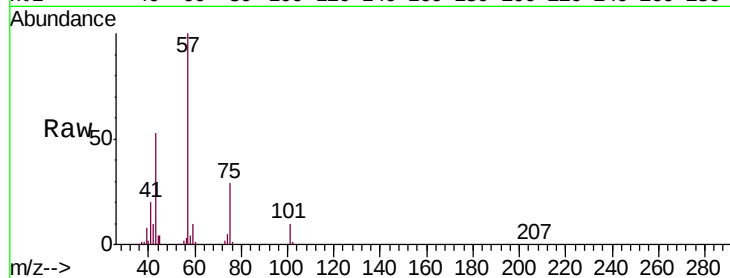
T11-C1-(4)

Tgt Ion: 43 Resp: 44651

Ion Ratio Lower Upper

43 100

58 8.0 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 4.407 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

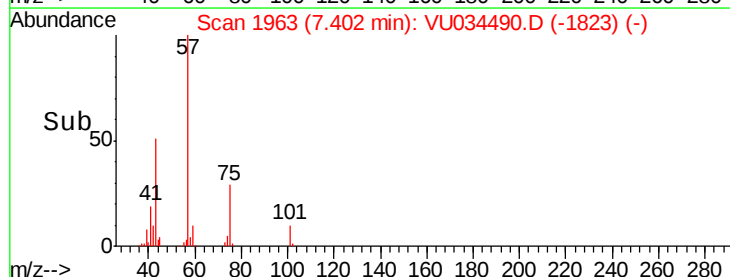
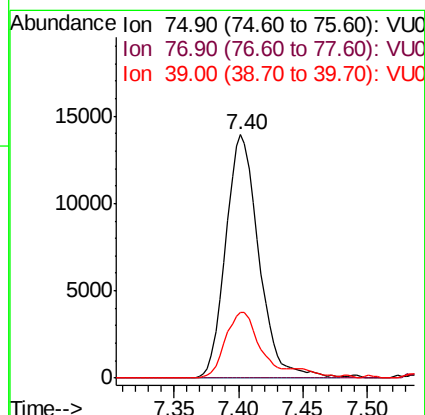
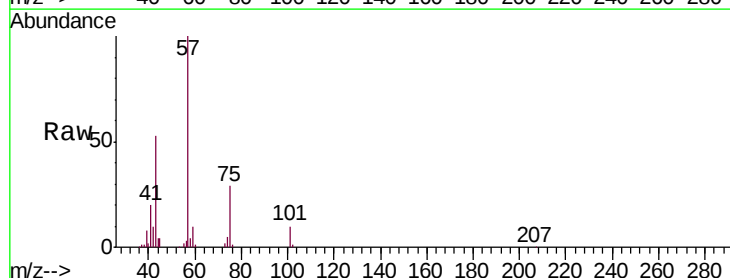
Tgt Ion: 75 Resp: 24946

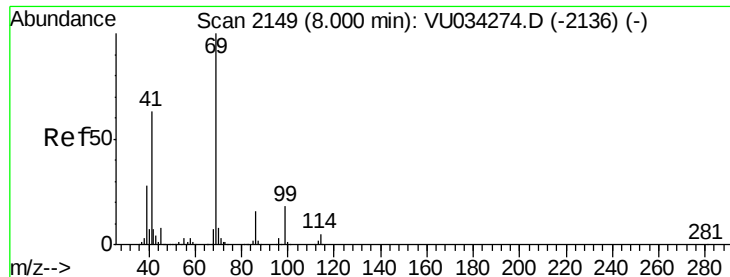
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 27.1 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.118 ug/l

RT: 7.89 min Scan# 2115

Delta R.T. -0.11 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

T11-C1-(4)

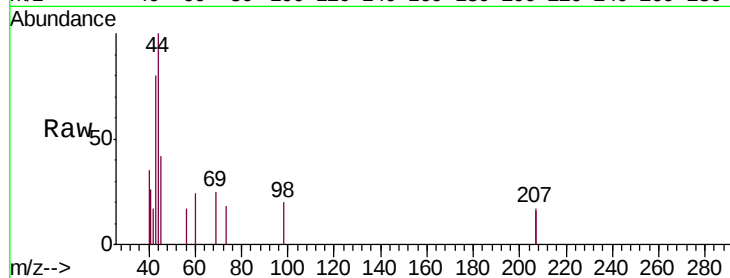
Tgt Ion: 69 Resp: 249

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

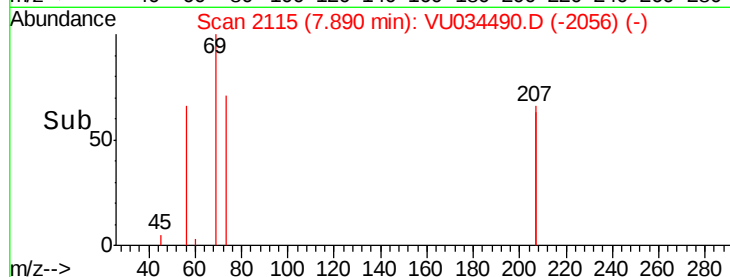
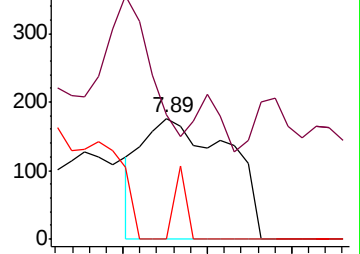
39 0.0 22.5 33.7#



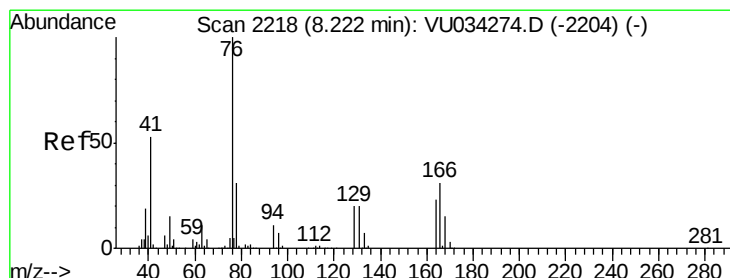
Abundance Ion 69.00 (68.70 to 69.70): VU034490.D (-2115) (-)

Ion 41.00 (40.70 to 41.70): VU034490.D (-2115) (-)

Ion 39.00 (38.70 to 39.70): VU034490.D (-2115) (-)



Time-->



#57

1,3-Dichloropropane

Concen: 0.529 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034490.D

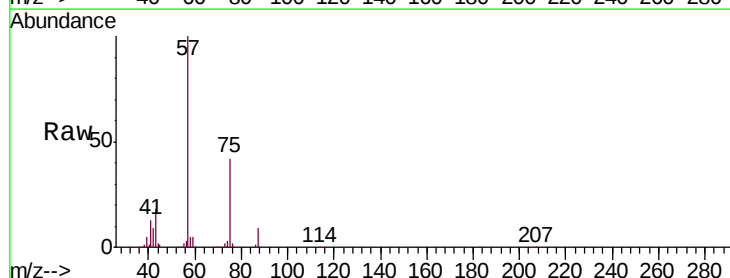
Acq: 11 Sep 2019 21:25

Tgt Ion: 76 Resp: 3233

Ion Ratio Lower Upper

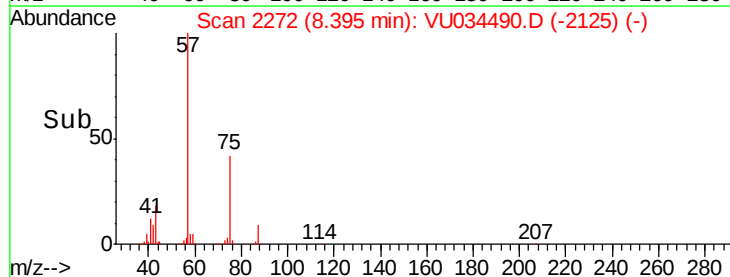
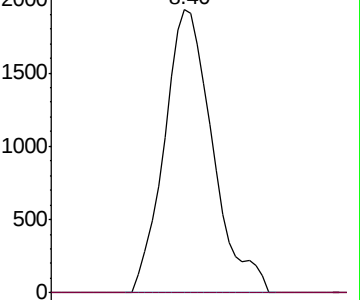
76 100

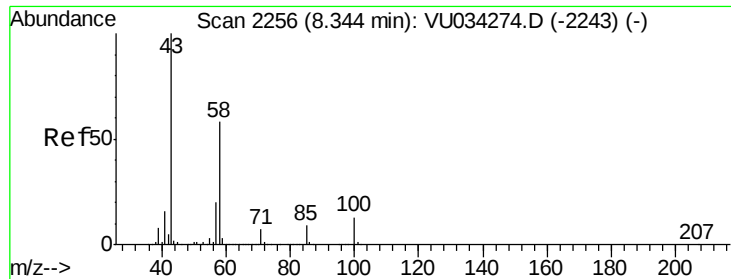
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034490.D (-2272) (-)

Ion 77.90 (77.60 to 78.60): VU034490.D (-2272) (-)

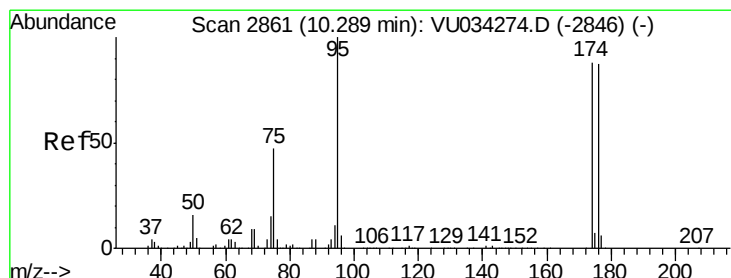
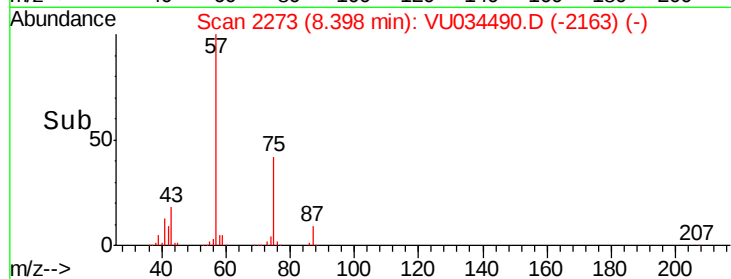
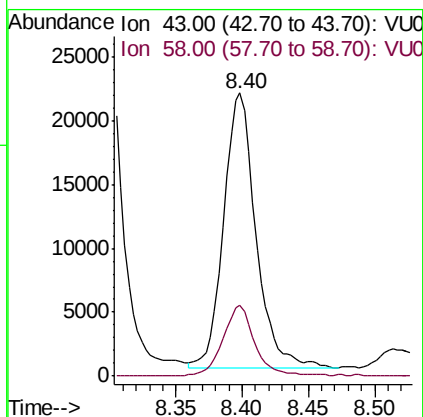
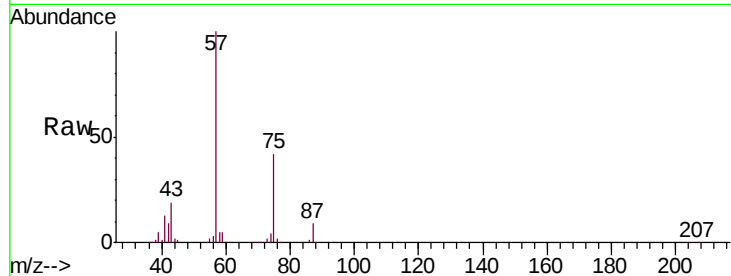




#59
2-Hexanone
Concen: 9.327 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

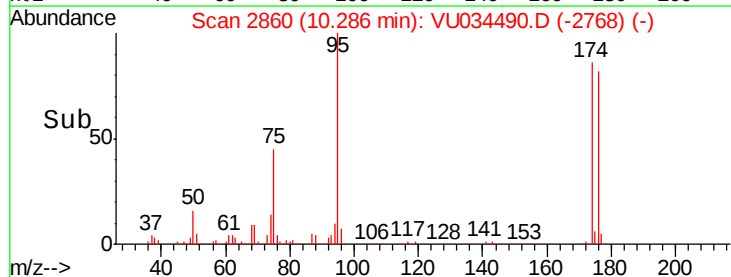
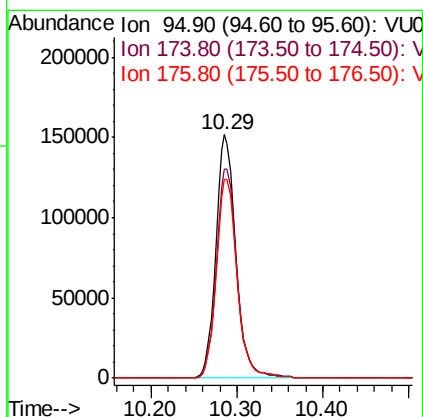
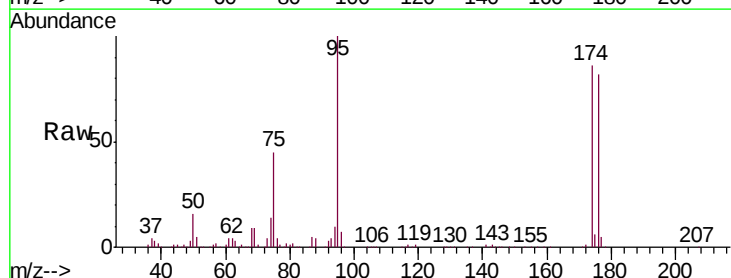
Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

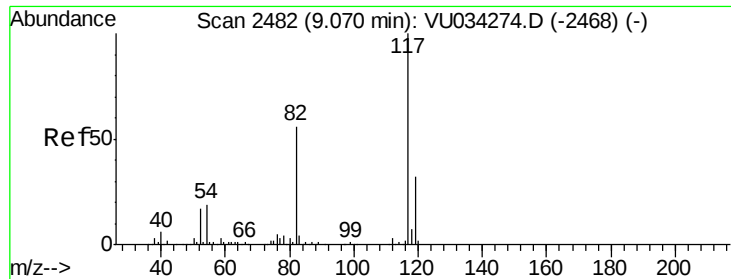
Tgt Ion: 43 Resp: 36310
Ion Ratio Lower Upper
43 100
58 25.4 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 48.553 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Tgt Ion: 95 Resp: 246663
Ion Ratio Lower Upper
95 100
174 88.6 0.0 175.2
176 84.3 0.0 168.0

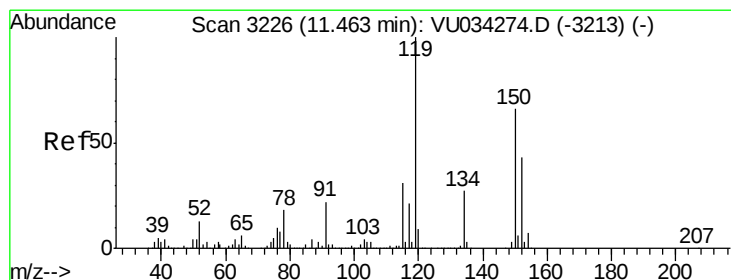
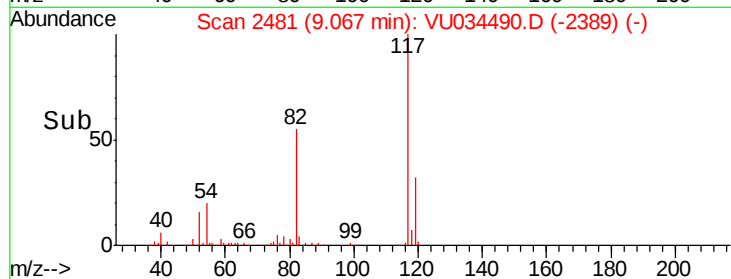
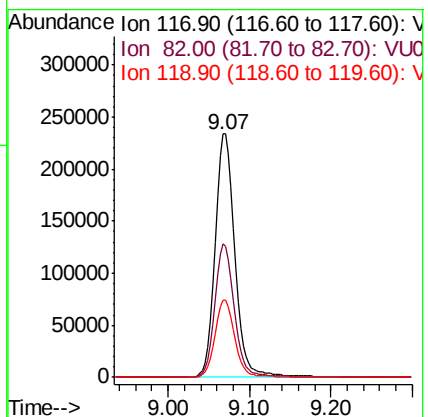
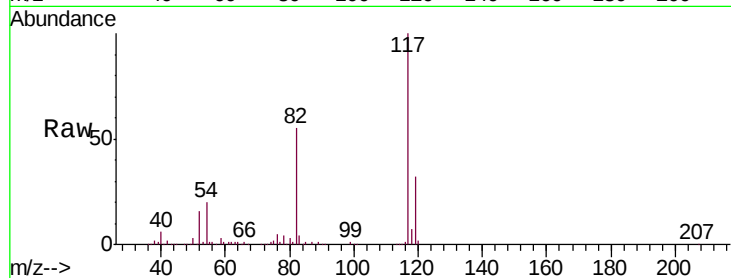




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

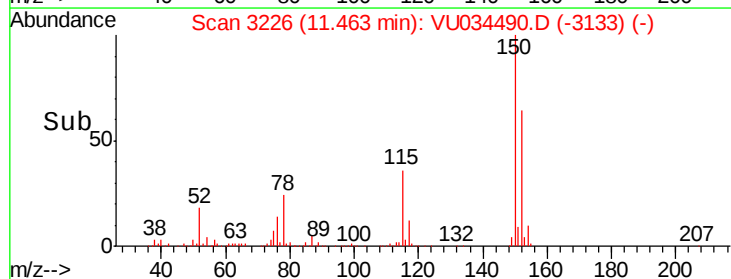
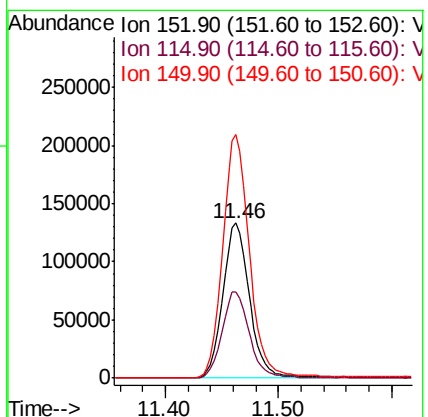
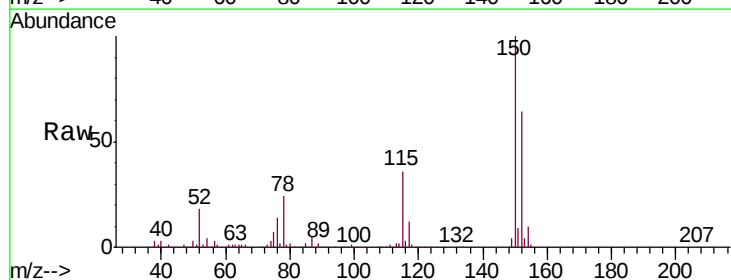
Instrument :
MSVOA_U
ClientSampleId :
T11-C1-(4)

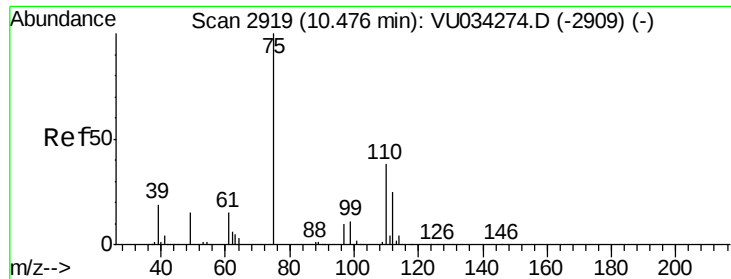
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.0	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034490.D
Acq: 11 Sep 2019 21:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	39.1	117.3
150	157.0	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 23.814 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

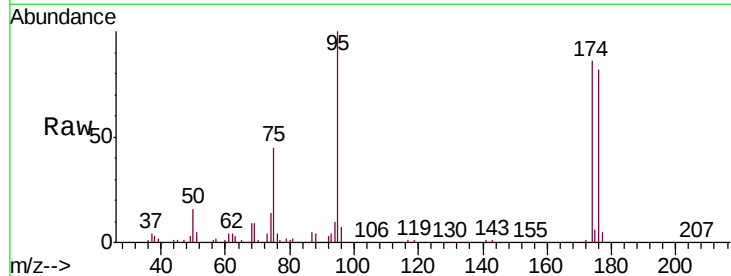
T11-C1-(4)

Tgt Ion: 75 Resp: 113929

Ion Ratio Lower Upper

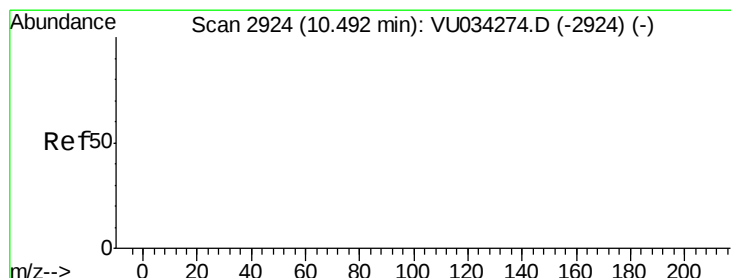
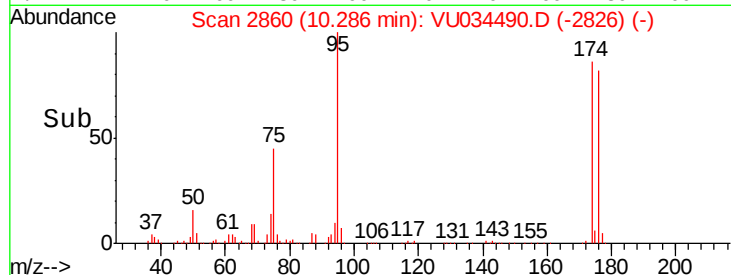
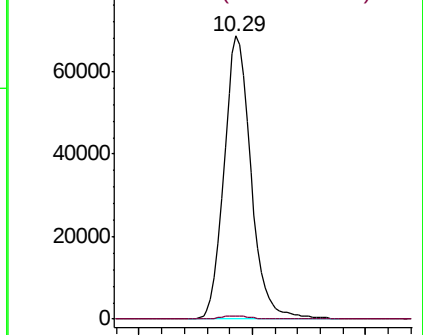
75 100

77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 80.086 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

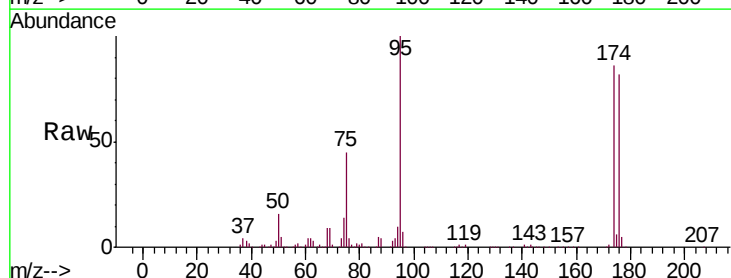
Tgt Ion: 75 Resp: 113929

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

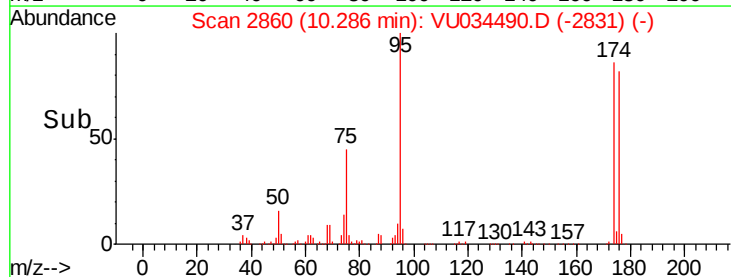
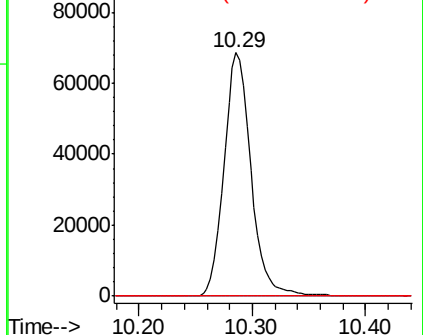
89 0.0 0.0 0.0

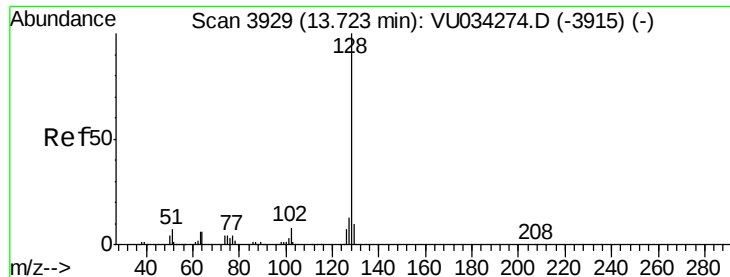


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 3.970 ug/l

RT: 13.78 min Scan# 3948

Delta R.T. 0.06 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

Instrument :

MSVOA_U

ClientSampleId :

T11-C1-(4)

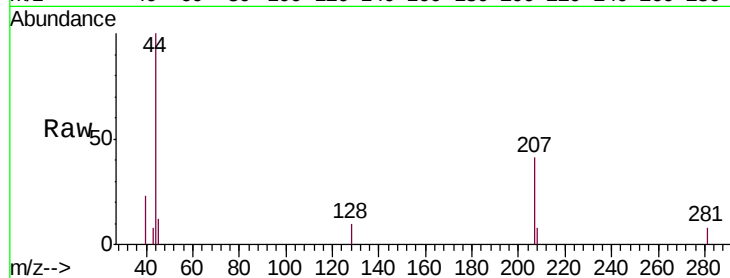
Tgt Ion:128 Resp: 70

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

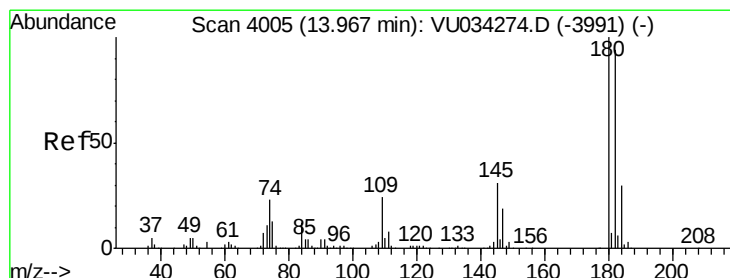
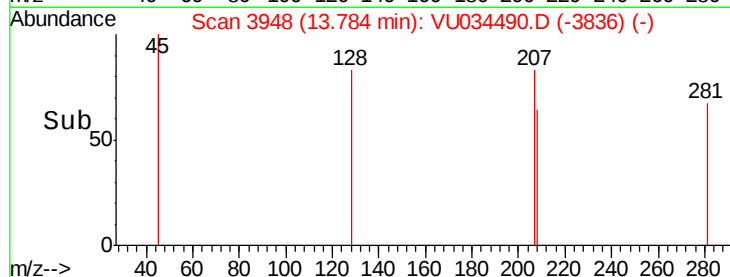
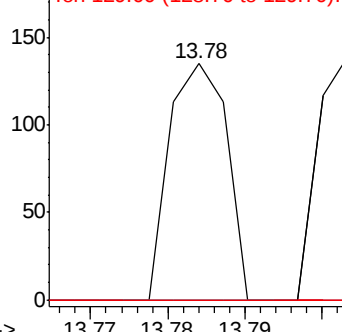
129 0.0 8.4 12.6#



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: 2.647 ug/l

RT: 14.03 min Scan# 4023

Delta R.T. 0.06 min

Lab File: VU034490.D

Acq: 11 Sep 2019 21:25

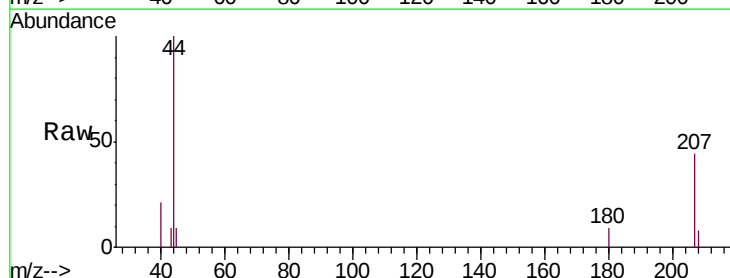
Tgt Ion:180 Resp: 44

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.0#

145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

