

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034149.D
 Acq On : 01 Sep 2019 02:33
 Operator : JC/SP
 Sample : K4526-31
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(1.9)

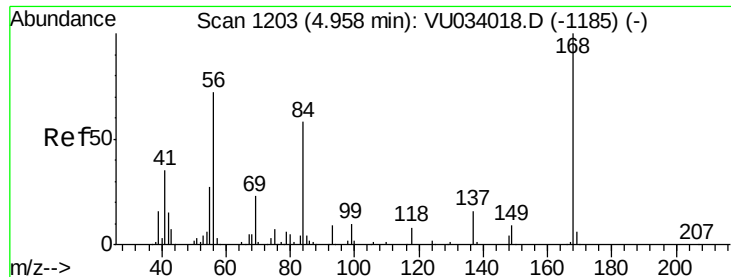
Quant Time: Sep 01 04:54:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	453102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	714948	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	720715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	352571	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	285120	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
35) Dibromofluoromethane	4.86	113	239968	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
50) Toluene-d8	7.55	98	951291	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	10.29	95	331335	45.87	ug/l	0.00
Spiked Amount			Recovery	=	91.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	420	Below Cal		98
5) Bromomethane	1.64	94	759	Below Cal	#	55
11) Tert butyl alcohol	2.82	59	2981	2.227	ug/l #	73
16) Acetone	2.31	43	14422	4.868	ug/l	95
18) Methyl Acetate	2.61	43	2803	0.366	ug/l #	88
20) Methylene Chloride	2.69	84	14130	2.520	ug/l	95
25) 2-Butanone	4.29	43	1276	0.310	ug/l	94
29) Tetrahydrofuran	4.66	42	779	0.306	ug/l #	42
31) Cyclohexane	4.96	56	8413	0.970	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33156	4.903	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41263	6.321	ug/l #	16
43) Isopropyl Acetate	5.53	43	72027	6.252	ug/l	99
48) Methyl methacrylate	6.68	41	123695	22.250	ug/l #	39
49) 1,4-Dioxane	6.69	88	131	0.940	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67561	8.491	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	35032	4.071	ug/l #	60
56) Ethyl methacrylate	7.97	69	152	0.988	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6410	0.708	ug/l #	42
59) 2-Hexanone	8.40	43	79999	13.319	ug/l #	54
74) N-amyl acetate	9.92	43	2608	0.262	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	160925	20.251	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	160925	68.192	ug/l #	100
95) Naphthalene	13.85	128	40	1.792	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034149.D

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Instrument :

MSVOA_U

ClientSampleId :

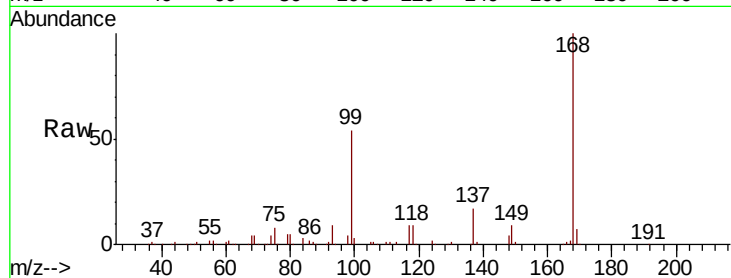
T9-12-13-F2-(1.9)

Tgt Ion:168 Resp: 453102

Ion Ratio Lower Upper

168 100

99 53.9 42.3 63.5



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

Ion 98.90 (98.60 to 99.60): VU034149.D (-1110) (-)

4.96

200000

150000

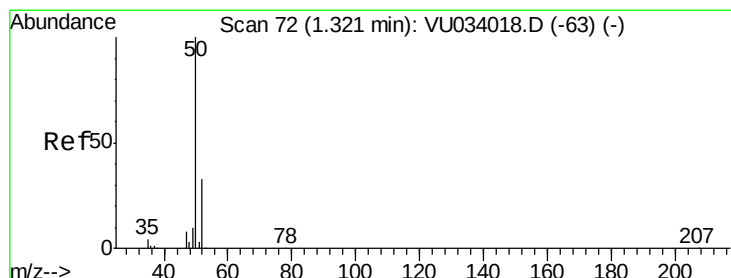
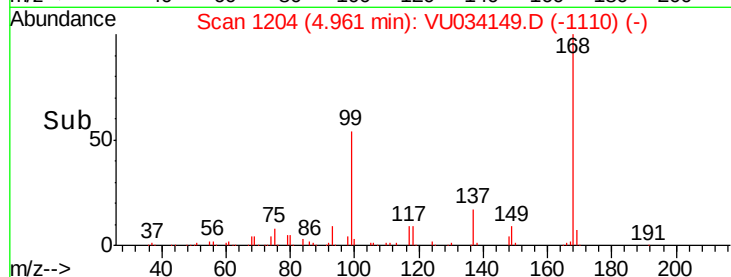
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034149.D

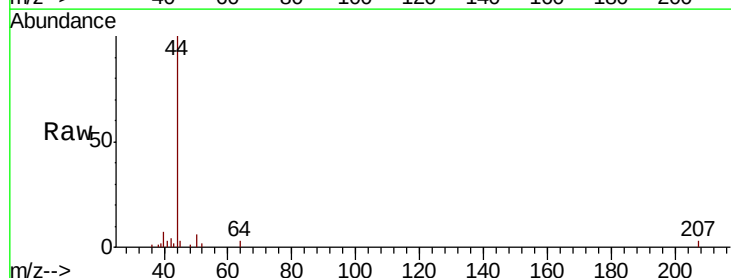
Acq: 01 Sep 2019 02:33

Tgt Ion: 50 Resp: 420

Ion Ratio Lower Upper

50 100

52 34.1 26.2 39.4



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

Ion 51.90 (51.60 to 52.60): VU034149.D (-1) (-)

1.32

600

500

400

300

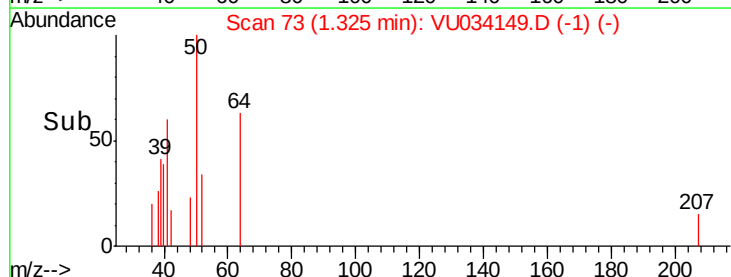
200

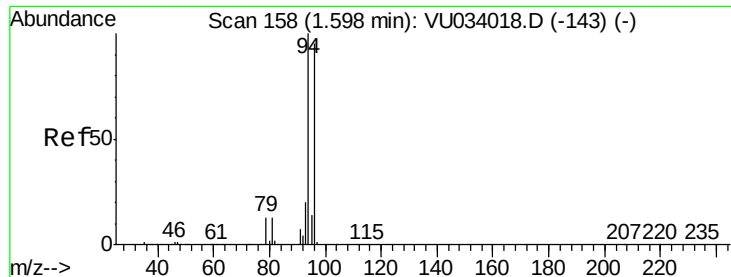
100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.05 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

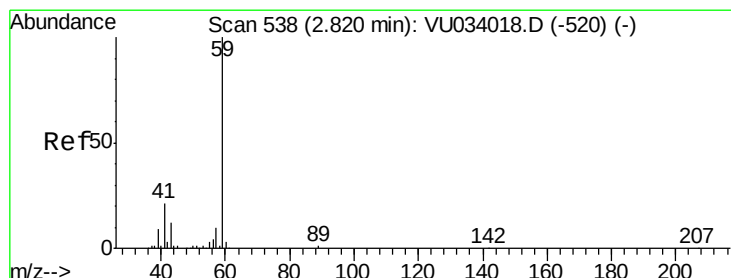
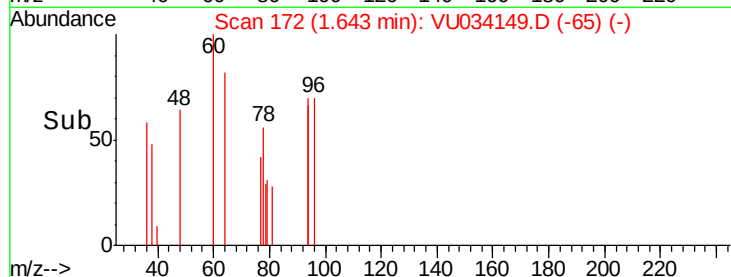
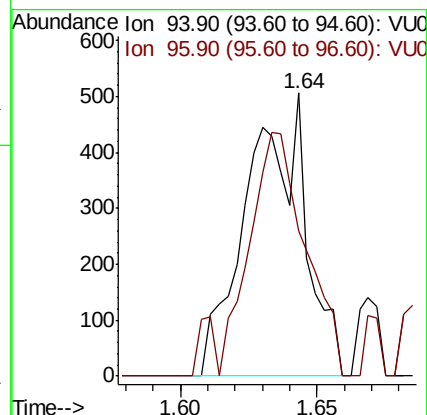
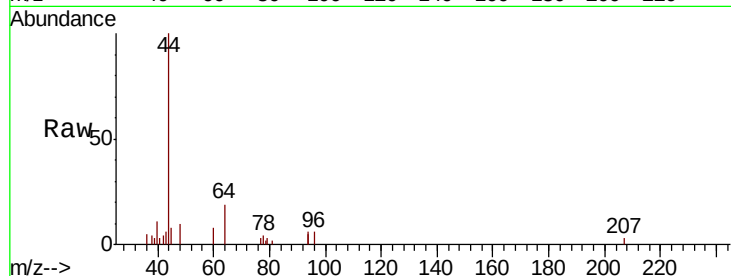
T9-12-13-F2-(1.9)

Tgt Ion: 94 Resp: 759

Ion Ratio Lower Upper

94 100

96 51.2 76.3 114.5#



#11

Tert butyl alcohol

Concen: 2.227 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034149.D

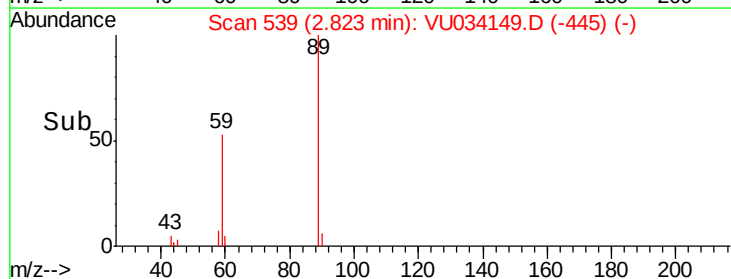
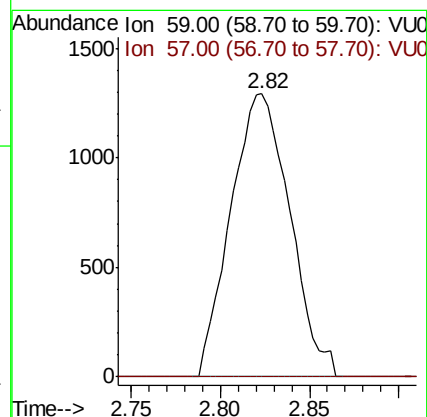
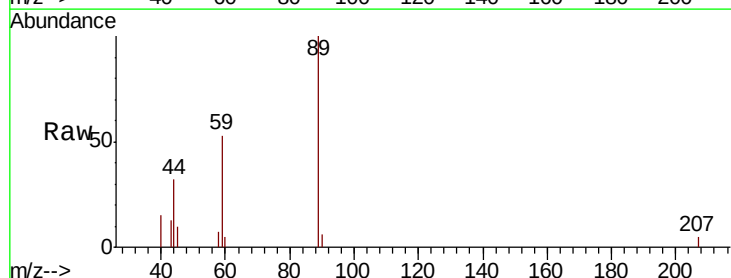
Acq: 01 Sep 2019 02:33

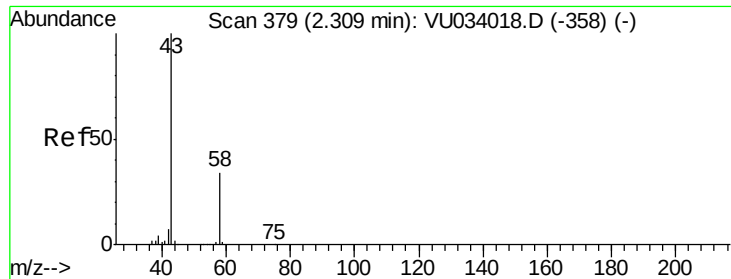
Tgt Ion: 59 Resp: 2981

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 4.868 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

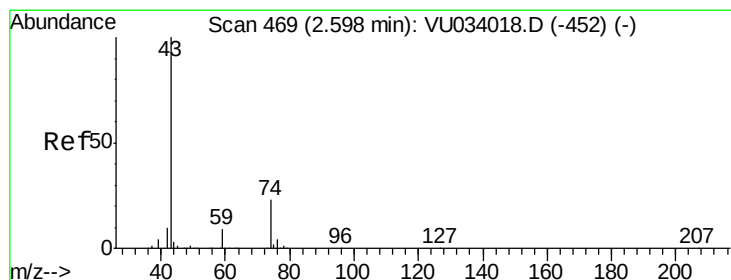
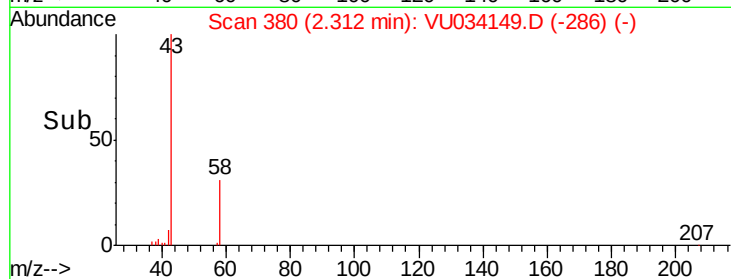
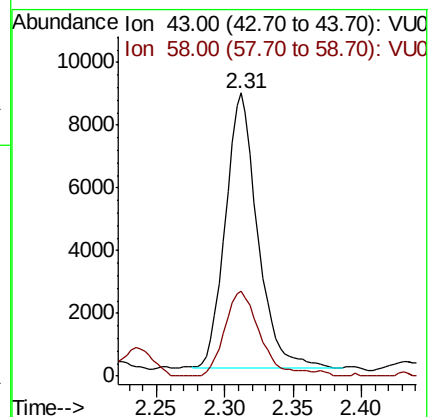
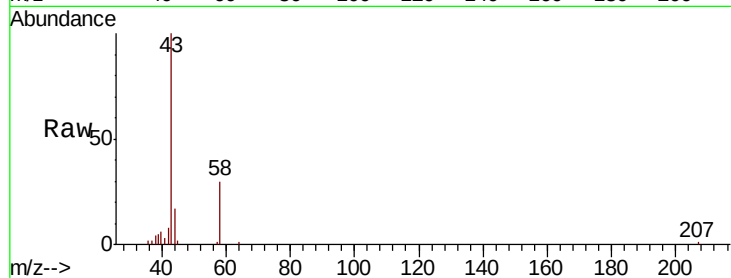
T9-12-13-F2-(1.9)

Tgt Ion: 43 Resp: 14422

Ion Ratio Lower Upper

43 100

58 30.7 26.8 40.2



#18

Methyl Acetate

Concen: 0.366 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034149.D

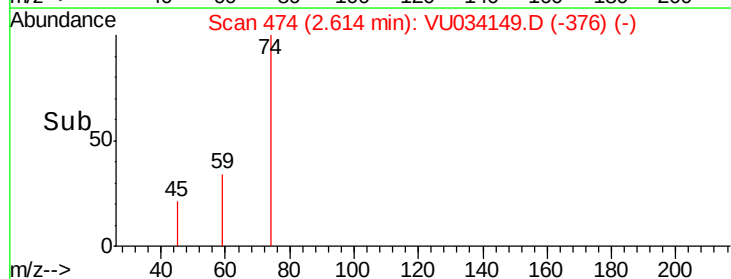
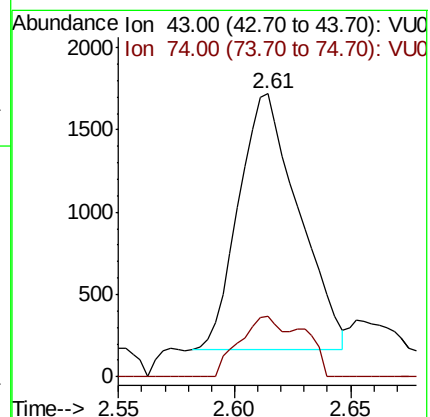
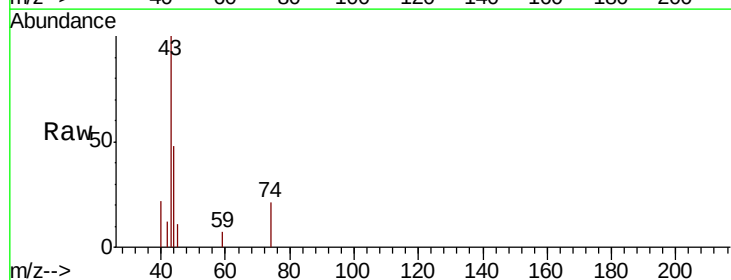
Acq: 01 Sep 2019 02:33

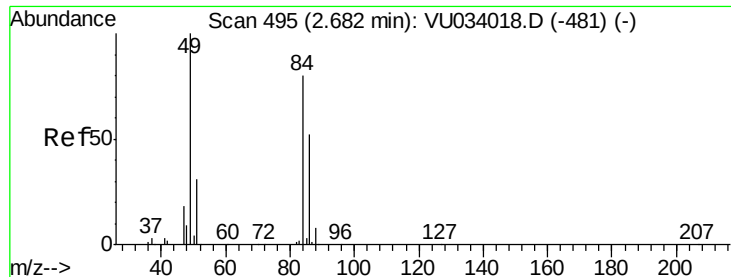
Tgt Ion: 43 Resp: 2803

Ion Ratio Lower Upper

43 100

74 18.1 19.2 28.8#





#20

Methylene Chloride

Concen: 2.520 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(1.9)

Tgt Ion: 84 Resp: 14130

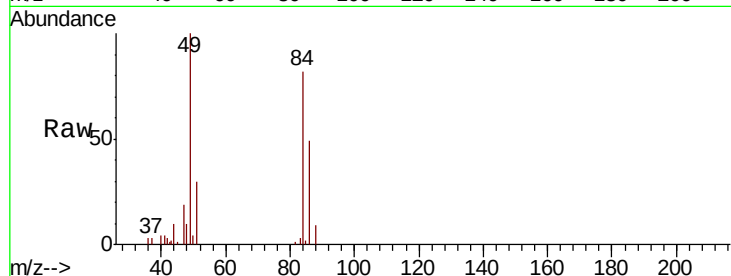
Ion Ratio Lower Upper

84 100

49 121.6 100.2 150.4

51 36.0 30.8 46.2

86 59.9 52.5 78.7

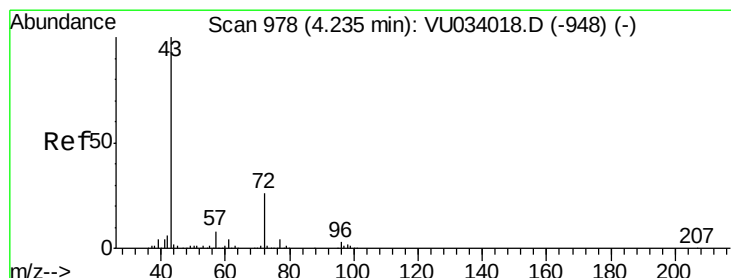
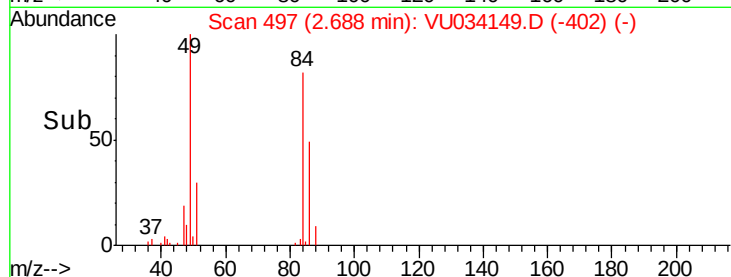
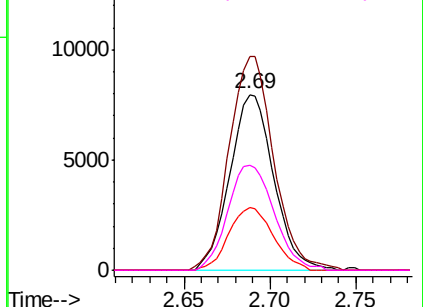


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 0.310 ug/l

RT: 4.29 min Scan# 996

Delta R.T. 0.06 min

Lab File: VU034149.D

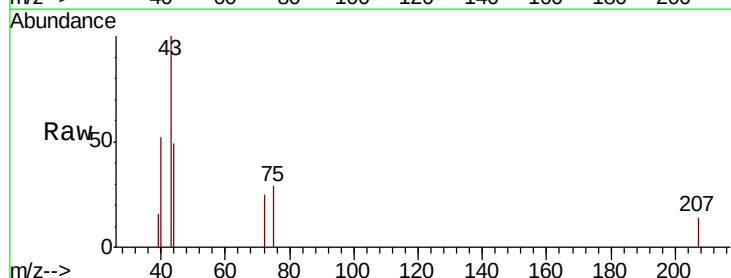
Acq: 01 Sep 2019 02:33

Tgt Ion: 43 Resp: 1276

Ion Ratio Lower Upper

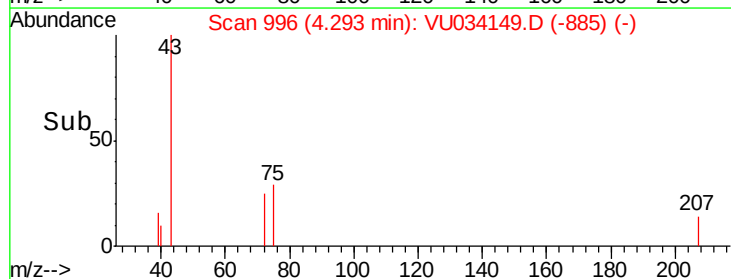
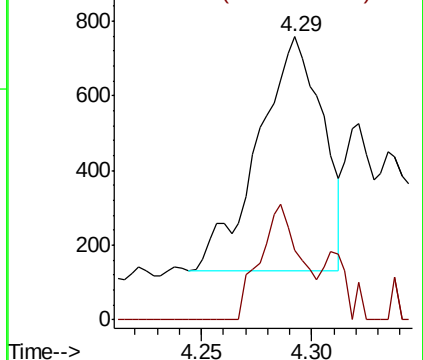
43 100

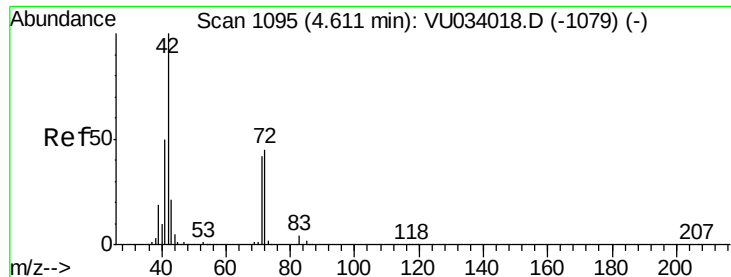
72 29.8 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

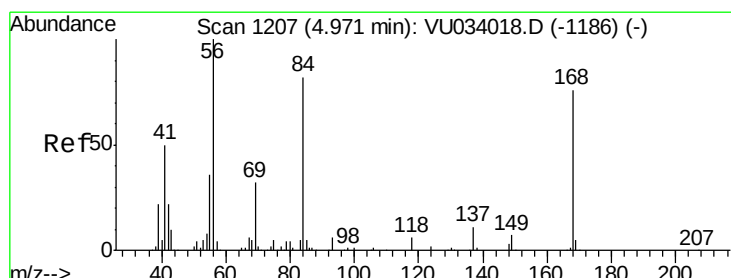
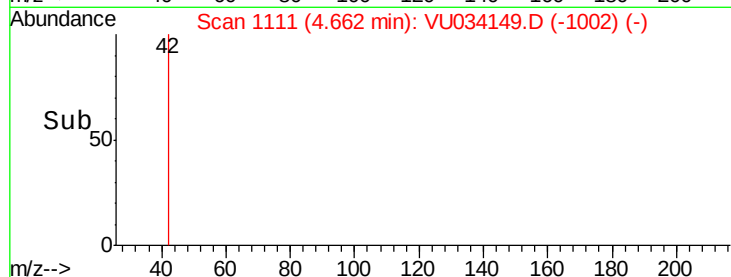
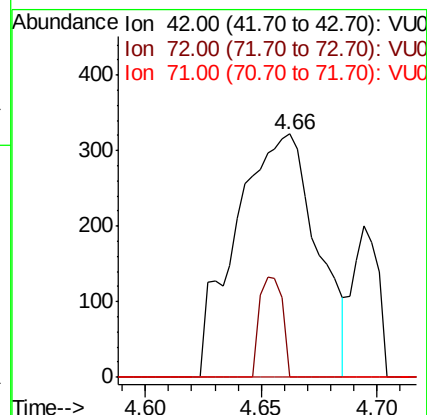
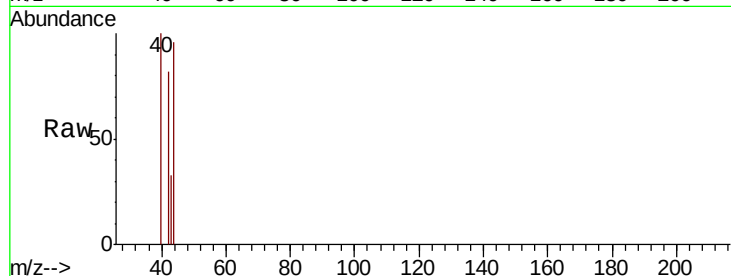




#29
Tetrahydrofuran
Concen: 0.306 ug/l
RT: 4.66 min Scan# 1111
Delta R.T. 0.05 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

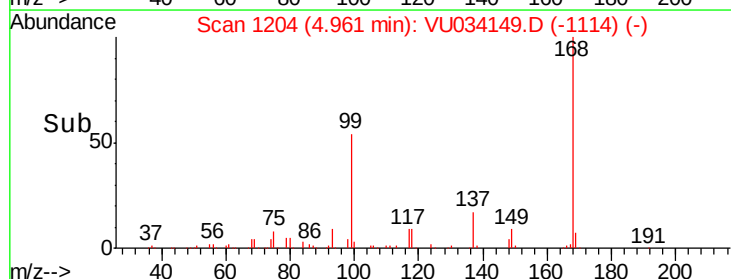
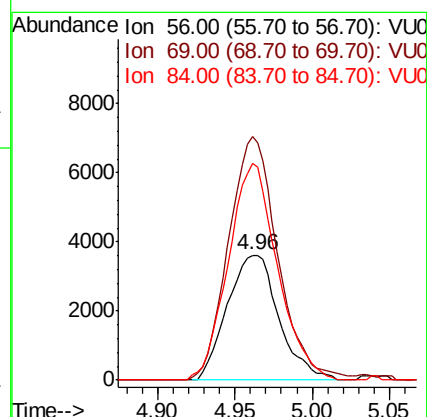
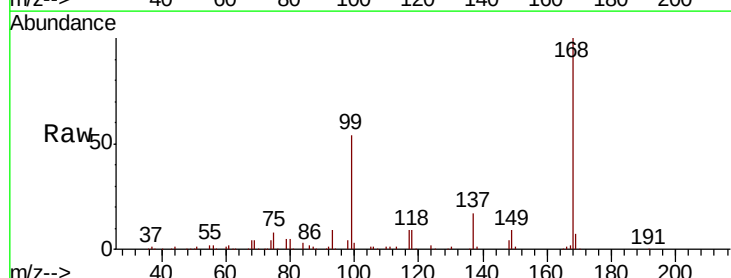
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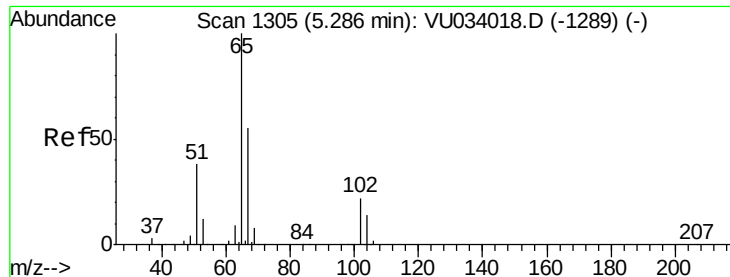
Tgt Ion: 42 Resp: 779
Ion Ratio Lower Upper
42 100
72 11.8 35.8 53.6#
71 0.0 34.0 51.0#



#31
Cyclohexane
Concen: 0.970 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

Tgt Ion: 56 Resp: 8413
Ion Ratio Lower Upper
56 100
69 192.6 25.4 38.0#
84 173.9 65.8 98.8#

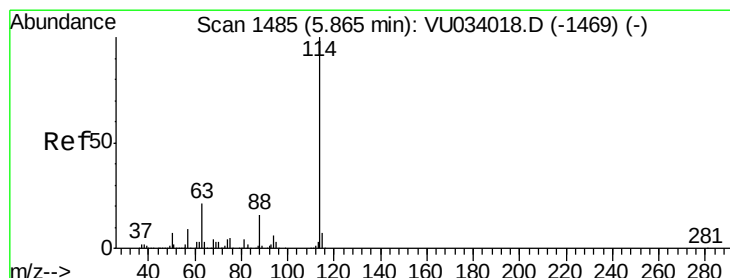
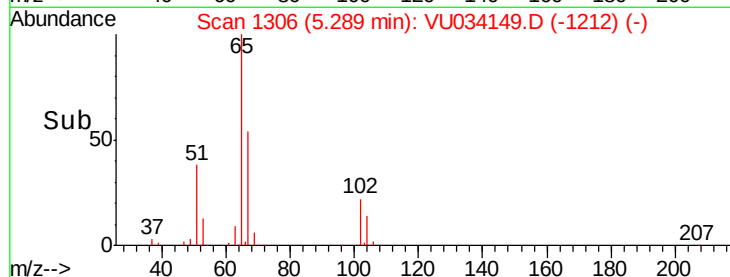
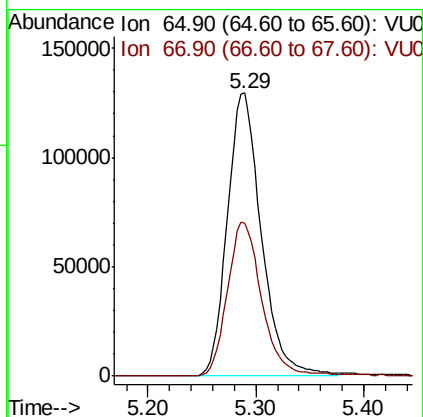
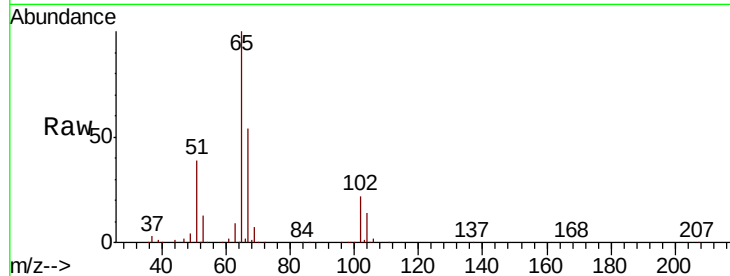




#33
 1,2-Dichloroethane-d4
 Concen: 49.110 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

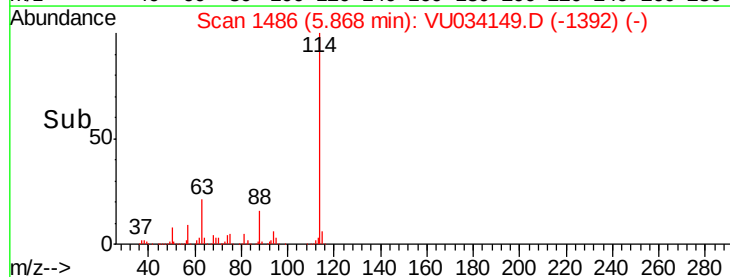
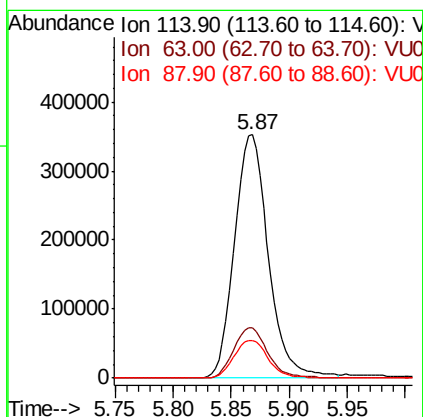
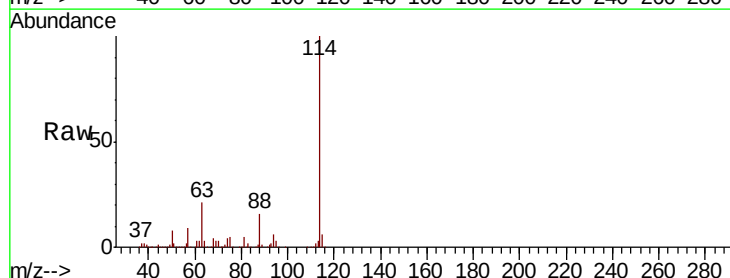
Instrument :
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 T9-12-13-F2-(1.9)

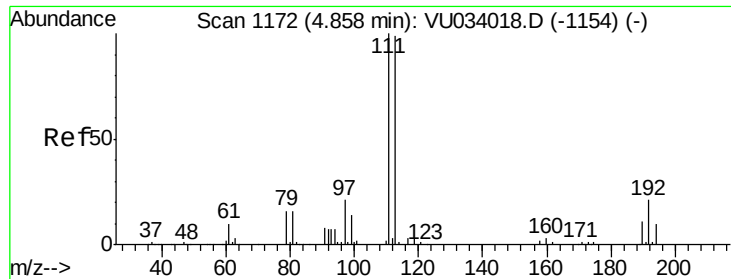
Tgt Ion: 65 Resp: 285120
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Tgt Ion: 114 Resp: 714948
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.0
 88 15.6 0.0 32.0

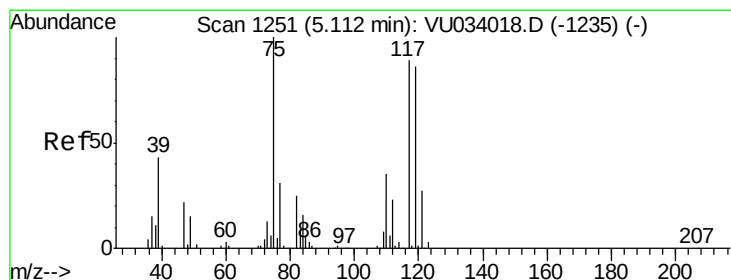
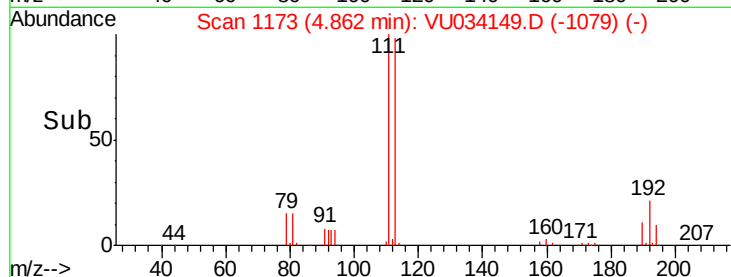
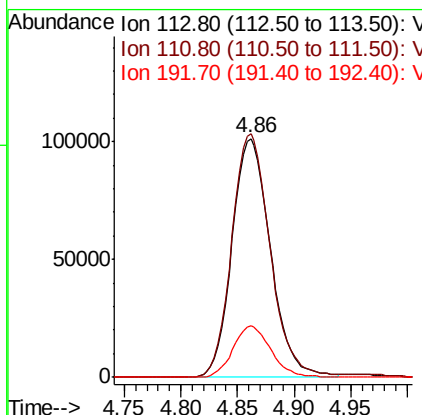
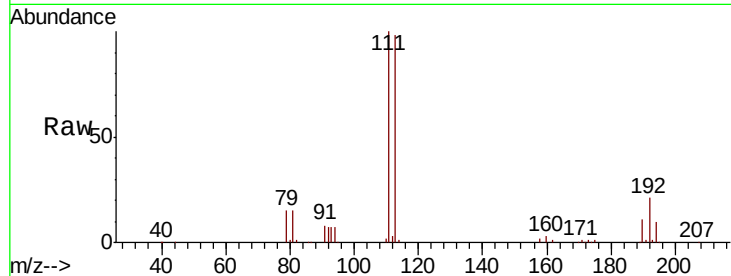




#35
 Dibromofluoromethane
 Concen: 48.392 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

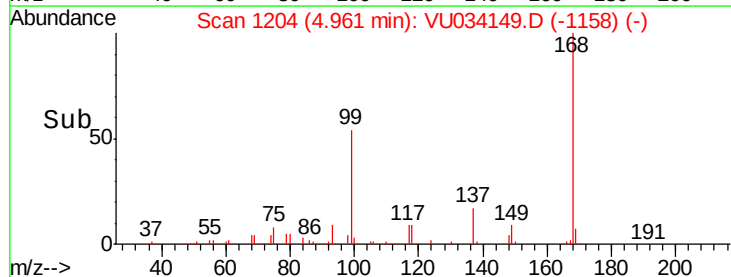
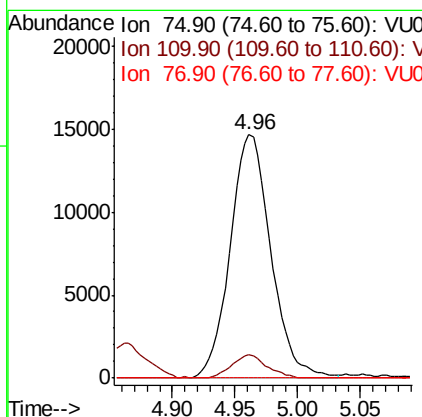
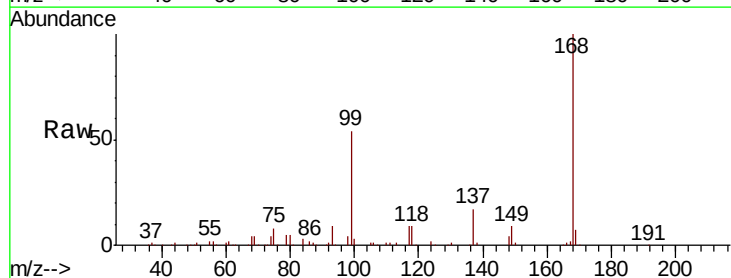
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(1.9)

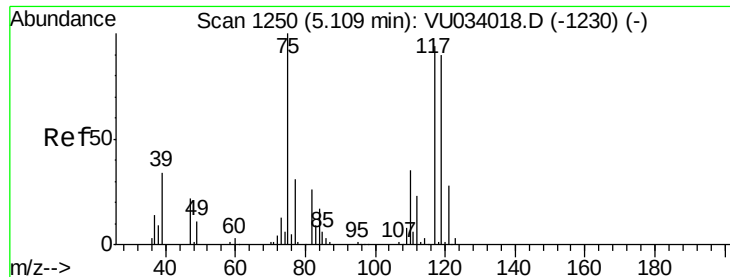
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.7	122.5
192	21.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.321 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(1.9)

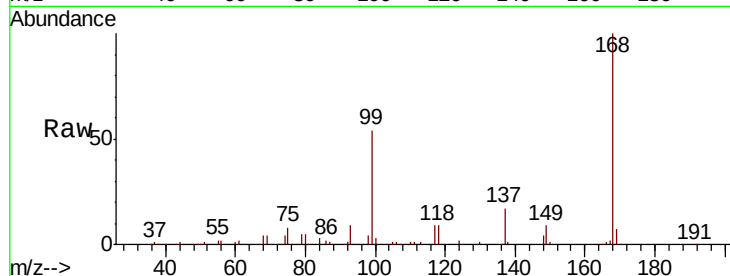
Tgt Ion:117 Resp: 41263

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

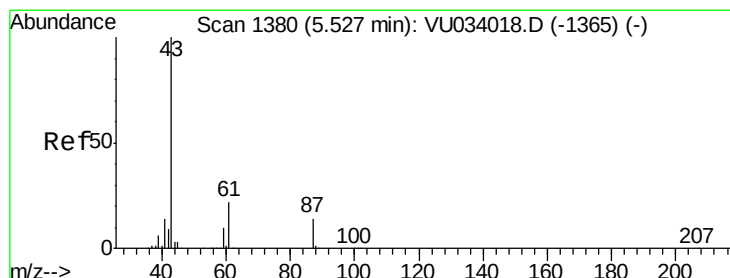
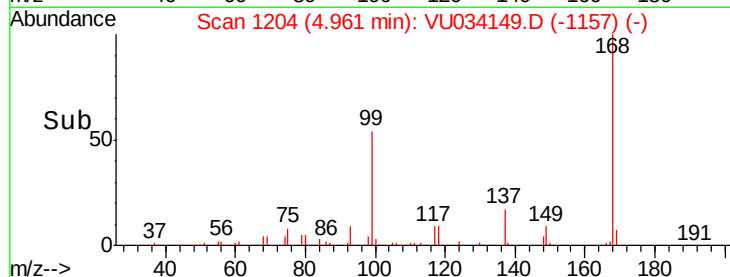
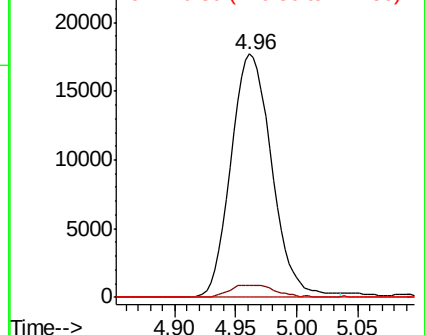
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.252 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

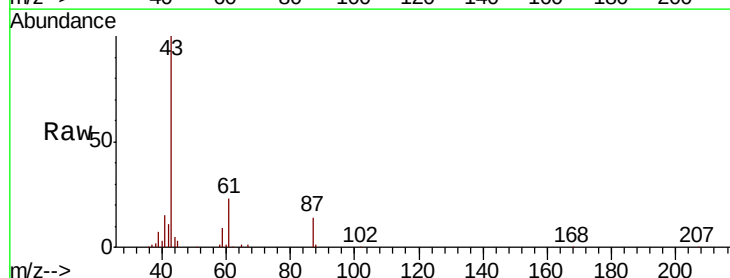
Tgt Ion: 43 Resp: 72027

Ion Ratio Lower Upper

43 100

61 21.9 17.2 25.8

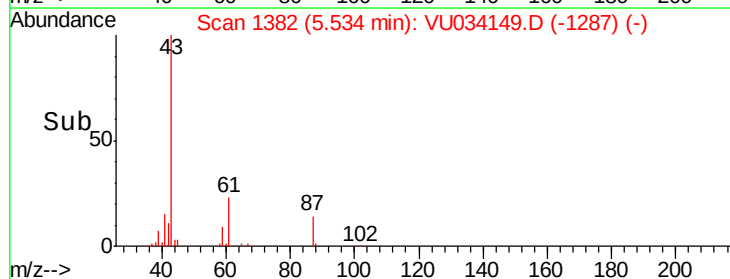
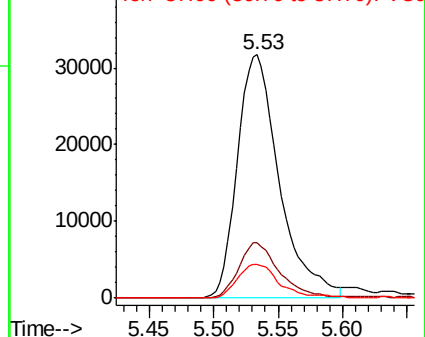
87 14.1 10.8 16.2

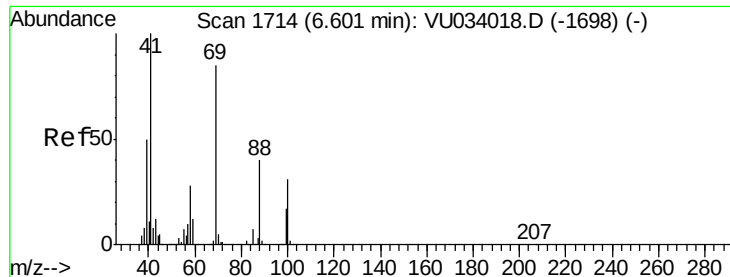


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

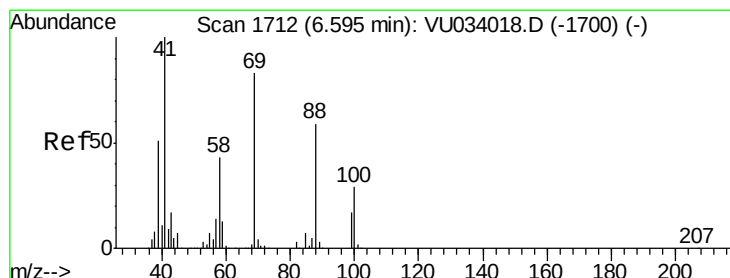
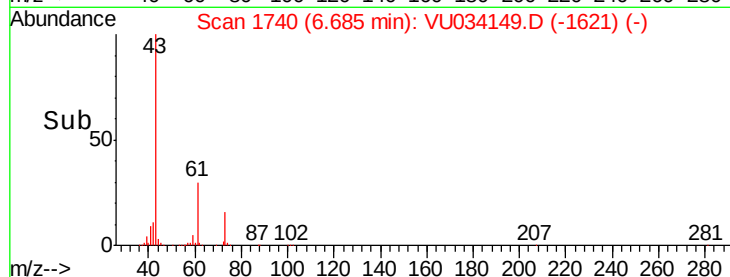
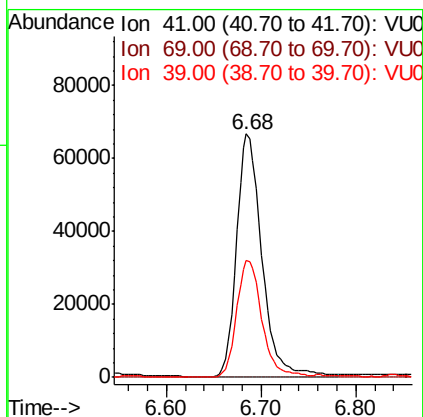
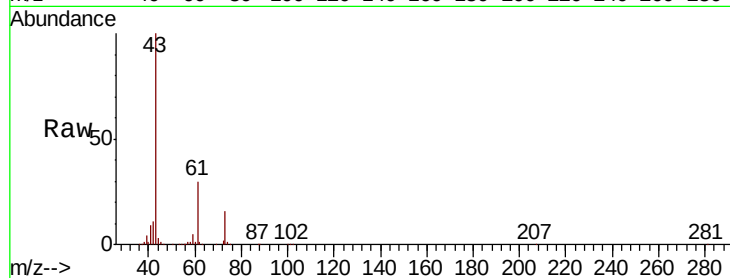




#48
Methyl methacrylate
Concen: 22.250 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

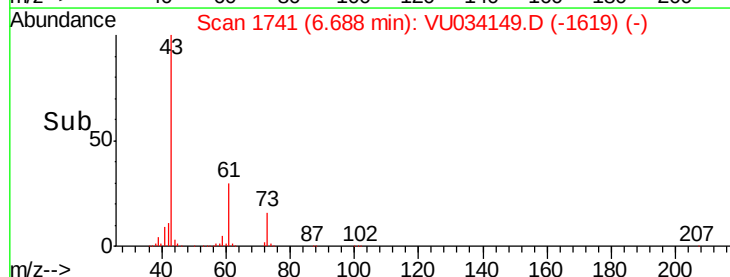
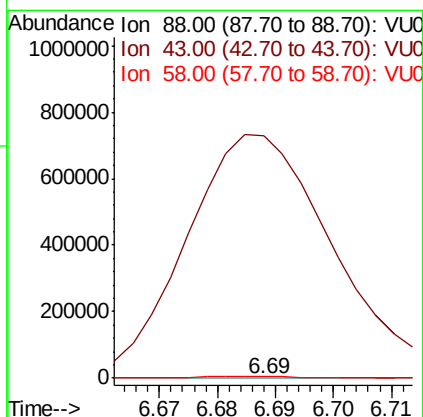
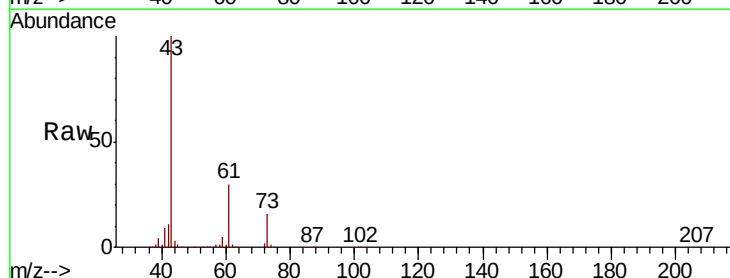
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(1.9)

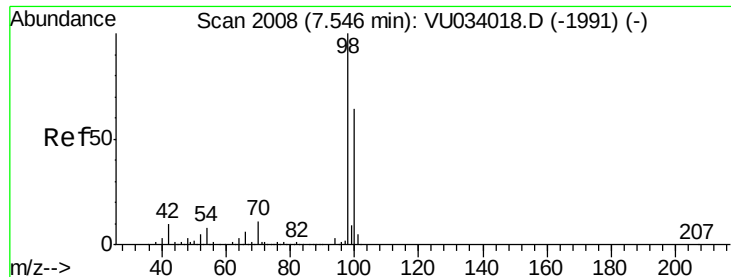
Tgt Ion: 41 Resp: 123695
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 48.2 40.3 60.5



#49
1,4-Dioxane
Concen: 0.940 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

Tgt Ion: 88 Resp: 131
Ion Ratio Lower Upper
88 100
43 1040893.1 24.8 37.2#
58 5811.5 59.3 88.9#





#50

Toluene-d8

Concen: 51.234 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

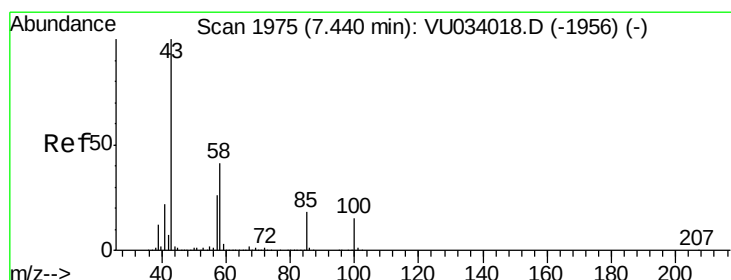
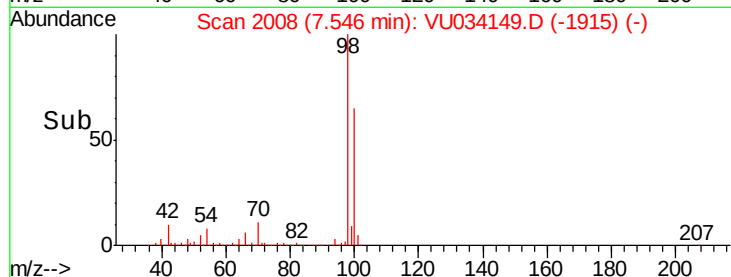
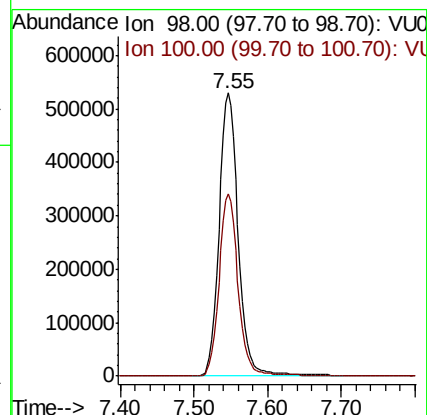
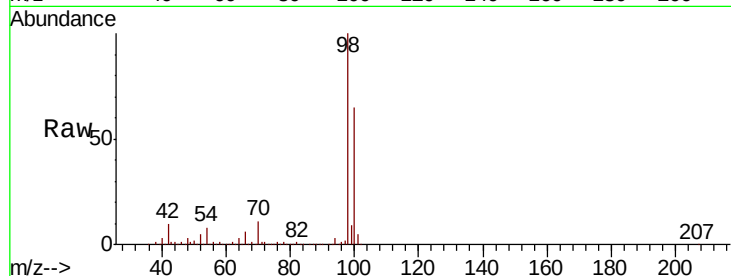
T9-12-13-F2-(1.9)

Tgt Ion: 98 Resp: 951291

Ion Ratio Lower Upper

98 100

100 64.0 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.491 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. -0.04 min

Lab File: VU034149.D

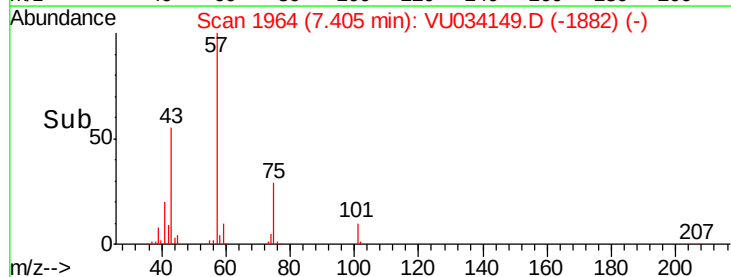
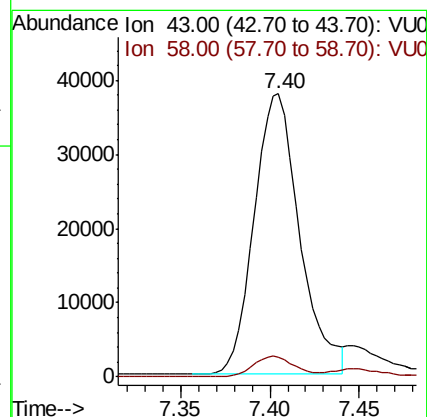
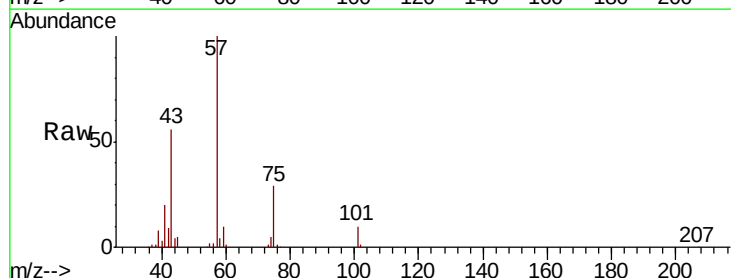
Acq: 01 Sep 2019 02:33

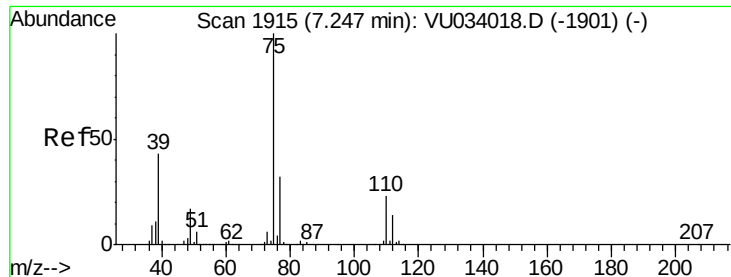
Tgt Ion: 43 Resp: 67561

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



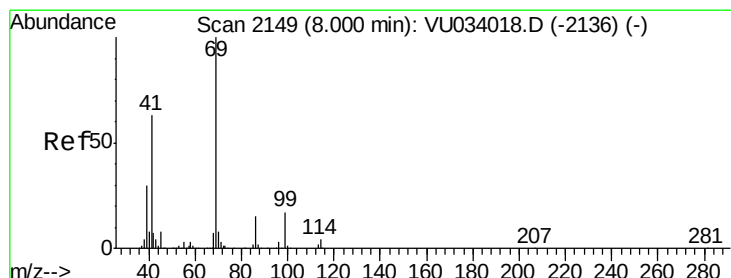
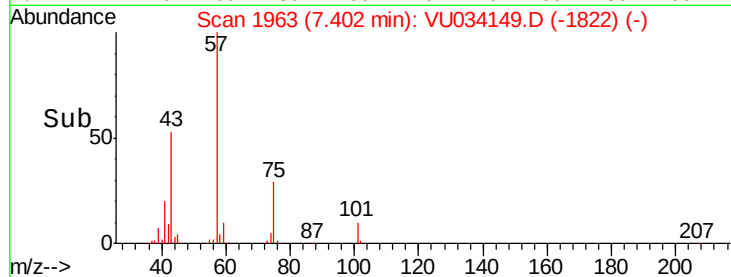
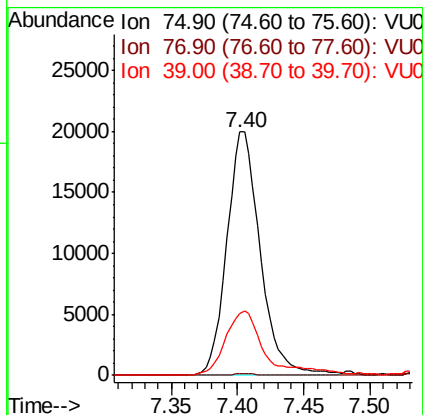
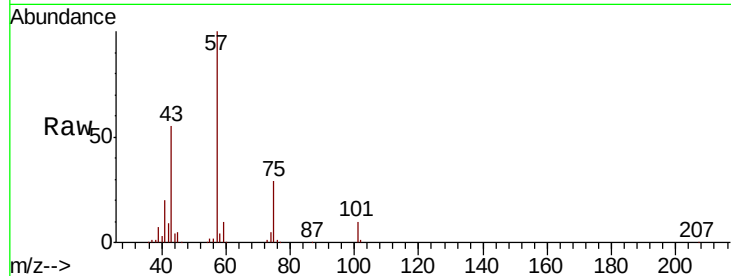


#54

cis-1,3-Dichloropropene
 Concen: 4.071 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(1.9)

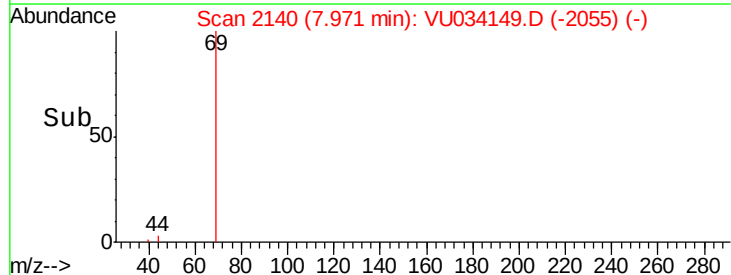
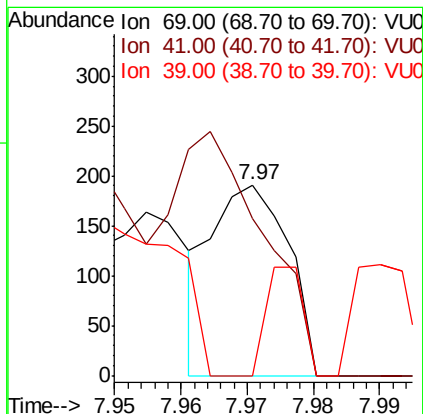
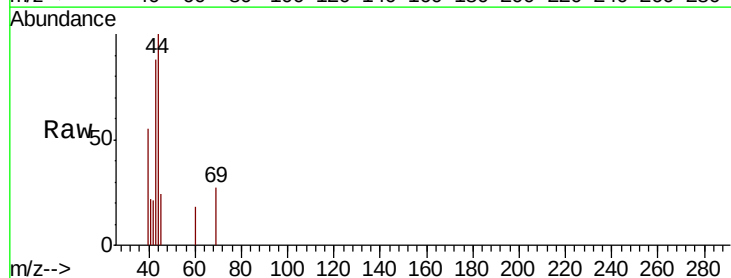
Tgt Ion: 75 Resp: 35032
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 25.3 34.6 51.8#

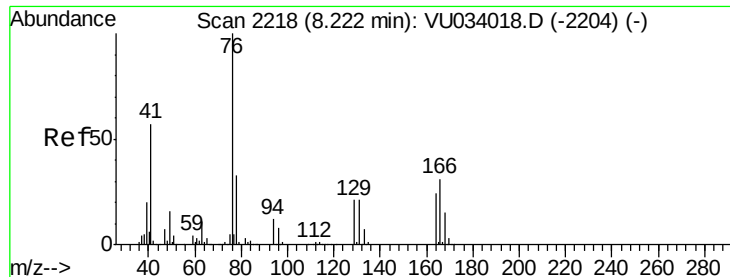


#56

Ethyl methacrylate
 Concen: 0.988 ug/l
 RT: 7.97 min Scan# 2140
 Delta R.T. -0.03 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Tgt Ion: 69 Resp: 152
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

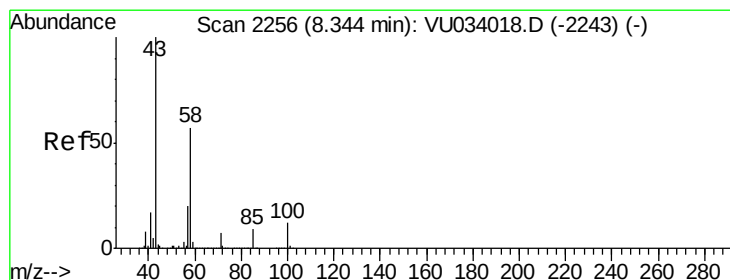
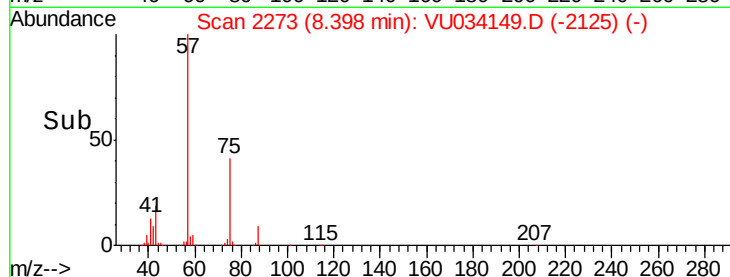
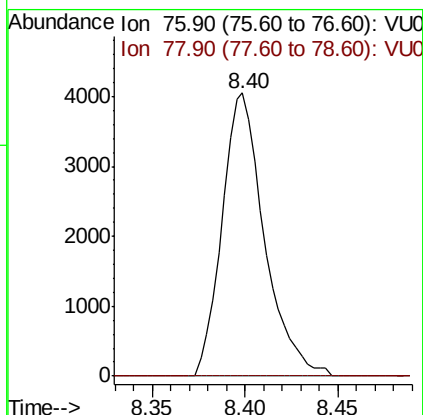
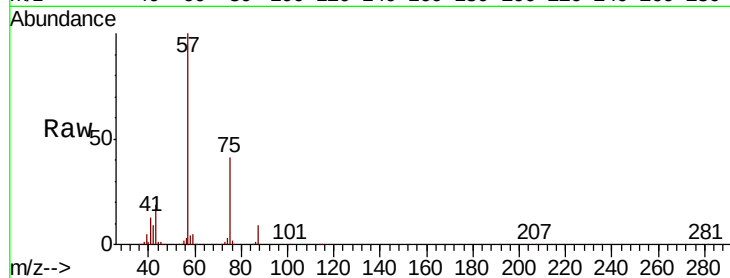




#57
 1,3-Dichloropropane
 Concen: 0.708 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

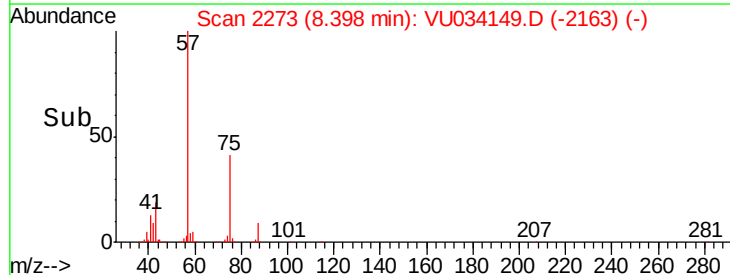
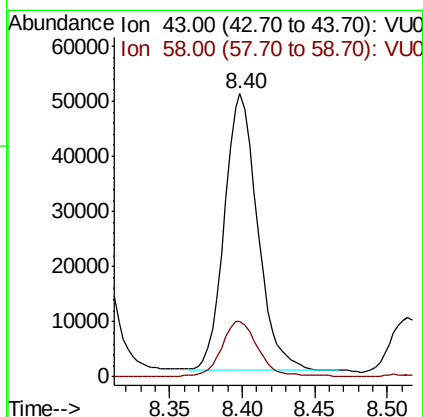
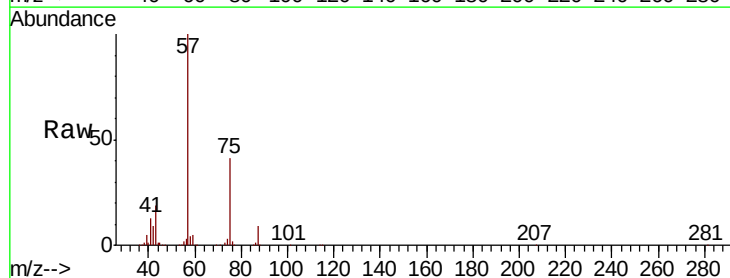
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(1.9)

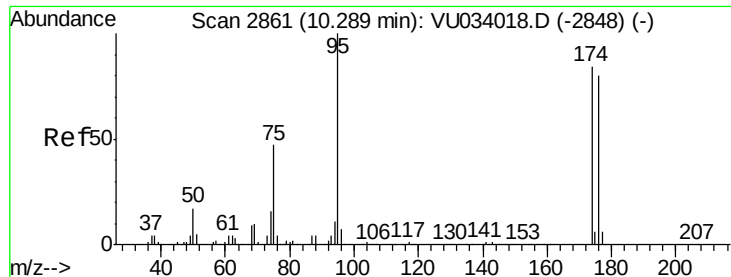
Tgt Ion: 76 Resp: 6410
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 13.319 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Tgt Ion: 43 Resp: 79999
 Ion Ratio Lower Upper
 43 100
 58 22.8 28.4 85.3#

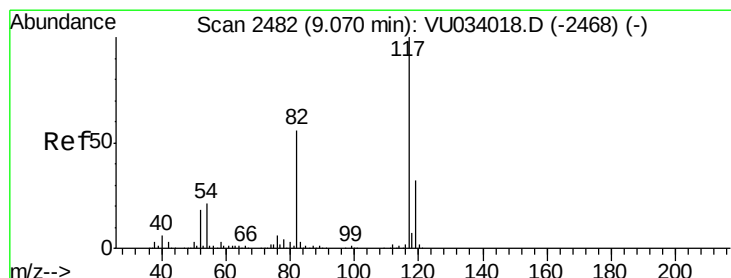
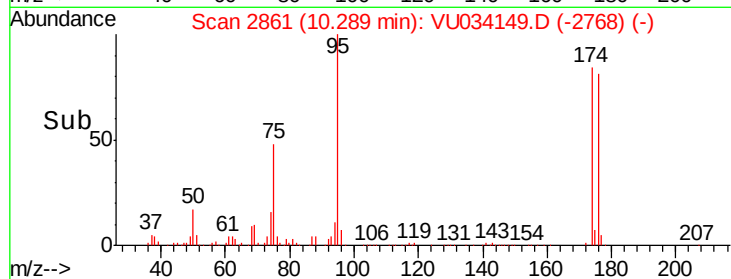
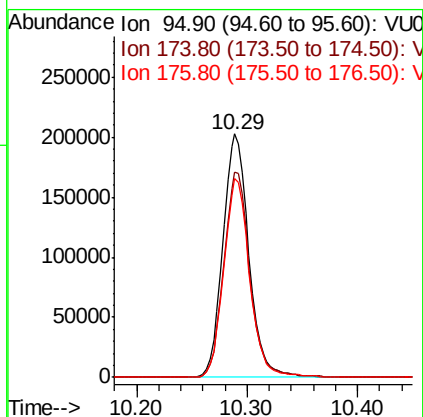
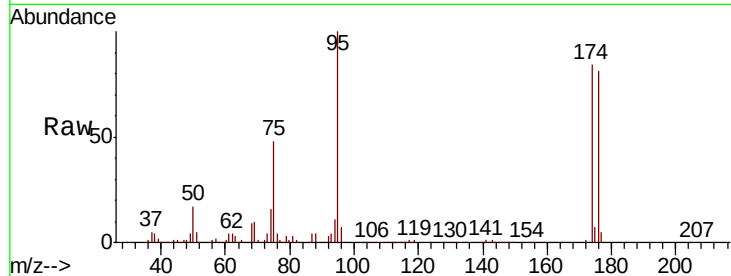




#62
4-Bromofluorobenzene
Concen: 45.875 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

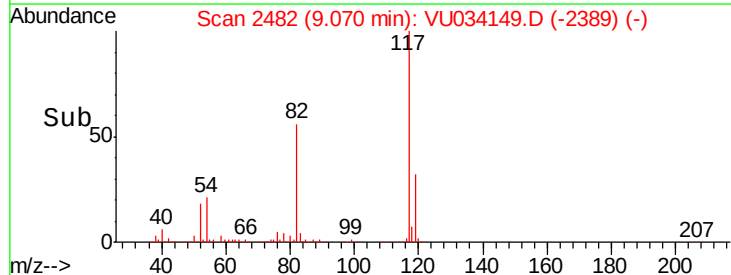
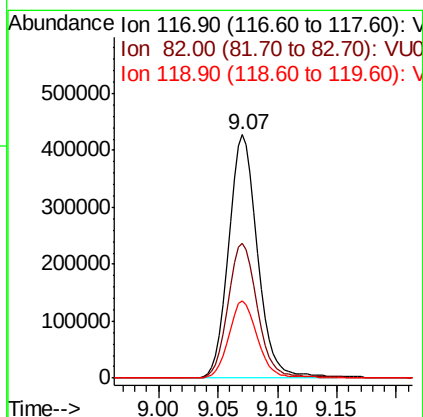
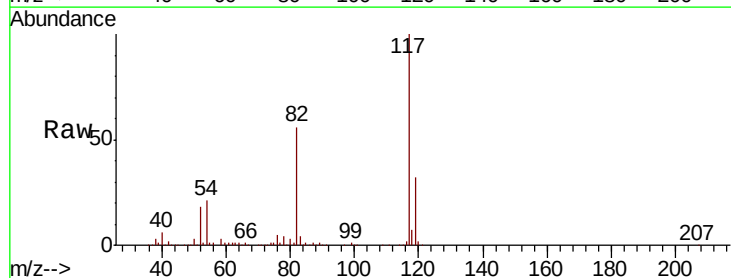
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(1.9)

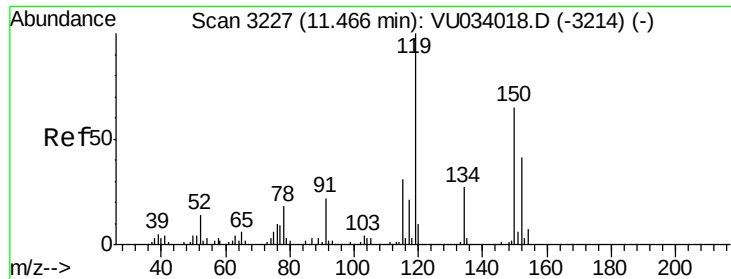
Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.2	0.0	168.8
176	81.8	0.0	161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034149.D
Acq: 01 Sep 2019 02:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.1	67.7
119	31.9	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(1.9)

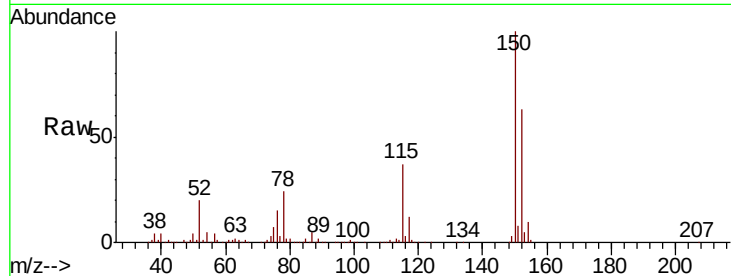
Tgt Ion:152 Resp: 352571

Ion Ratio Lower Upper

152 100

115 58.3 41.1 123.3

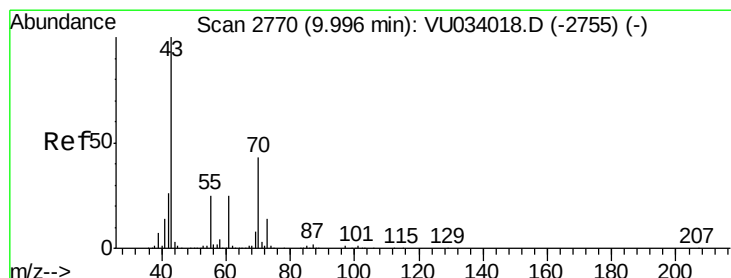
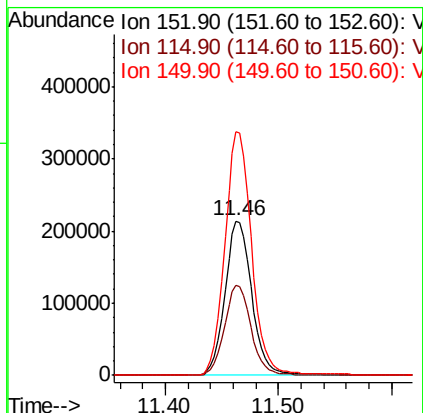
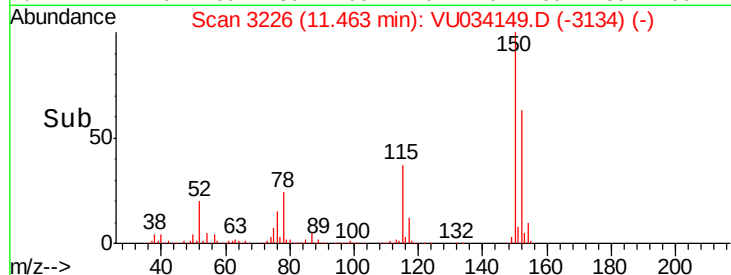
150 158.1 0.0 348.8



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



#74

N-ethyl acetate

Concen: 0.262 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034149.D

Acq: 01 Sep 2019 02:33

Tgt Ion: 43 Resp: 2608

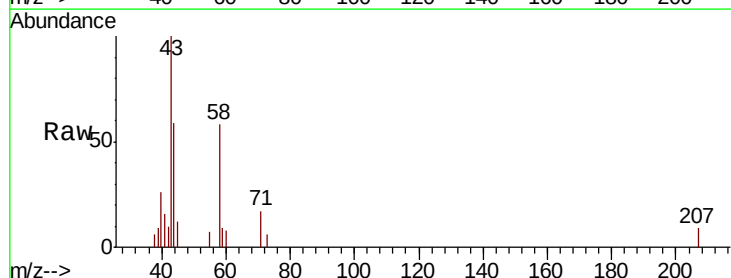
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 5.3 20.5 30.7#

61 0.0 20.0 30.0#

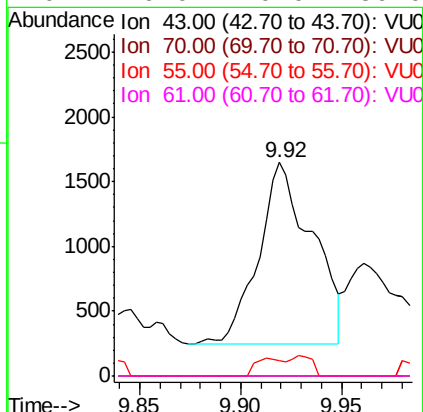
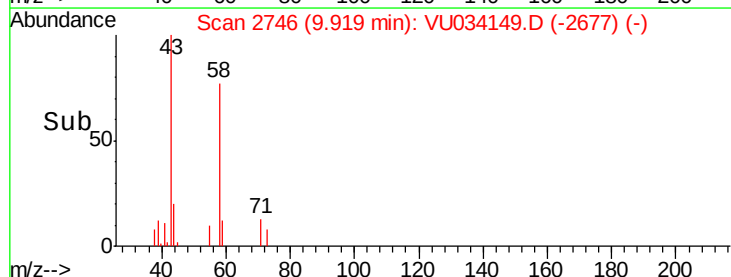


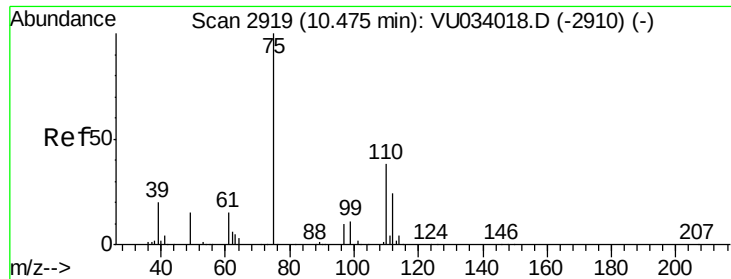
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

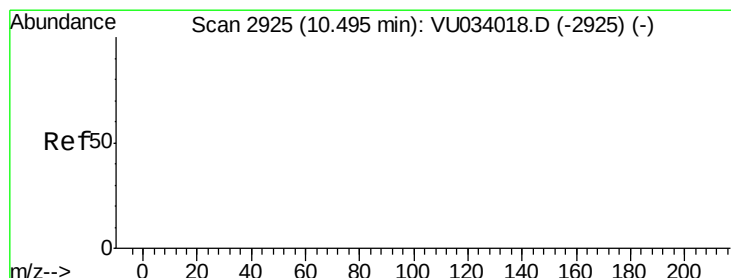
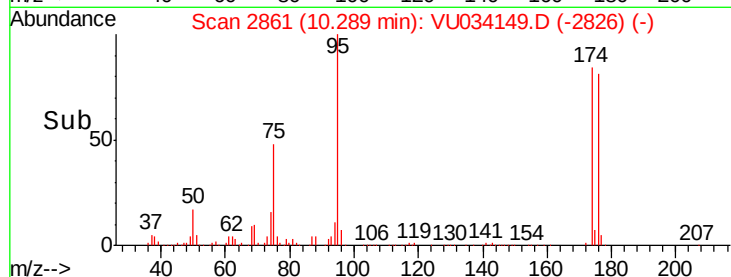
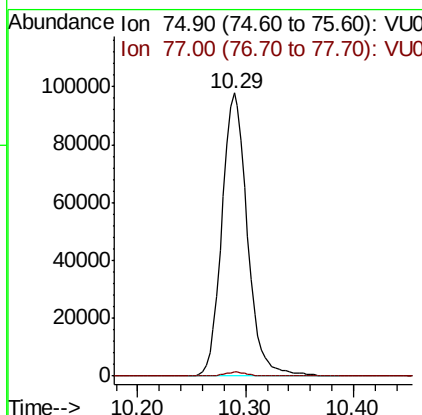
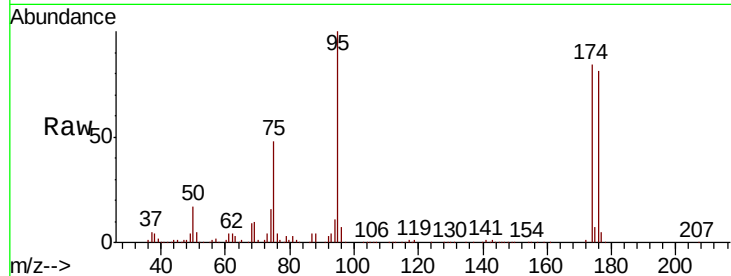




#76
 1,2,3-Trichloropropane
 Concen: 20.251 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

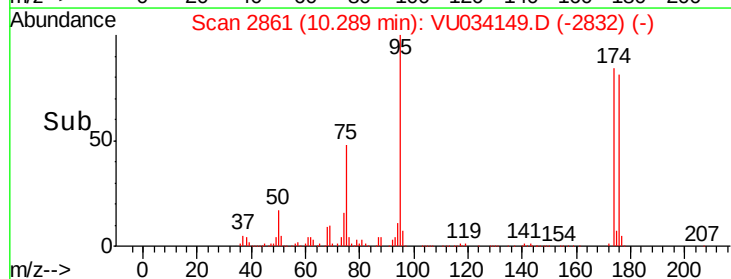
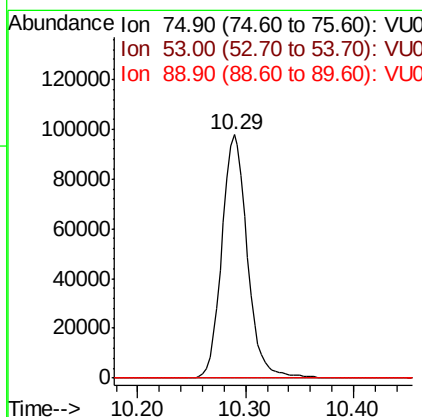
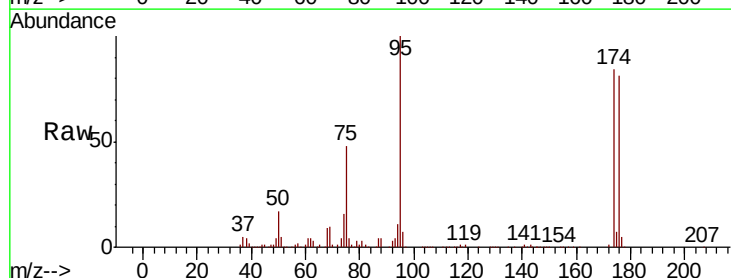
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(1.9)

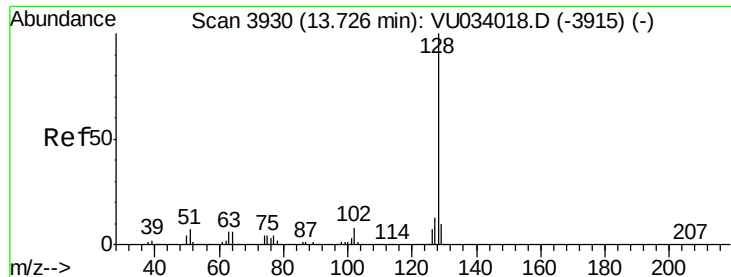
Tgt Ion: 75 Resp: 160925
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.192 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034149.D
 Acq: 01 Sep 2019 02:33

Tgt Ion: 75 Resp: 160925
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.85 min Scan# 3967

Delta R.T. 0.12 min

Lab File: VU034149.D

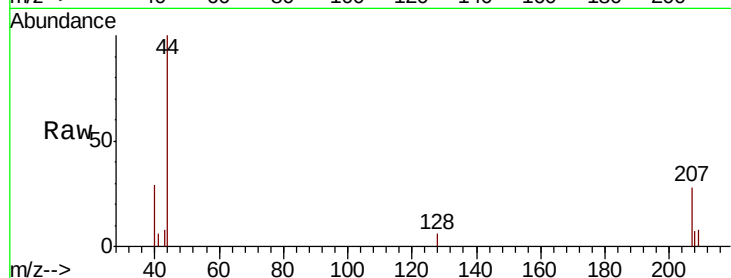
Acq: 01 Sep 2019 02:33

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(1.9)



Tgt Ion:	128	Resp:	40
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

