

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034145.D
 Acq On : 01 Sep 2019 00:59
 Operator : JC/SP
 Sample : K4526-27
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(0)

Quant Time: Sep 01 04:53:30 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	461873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	751561	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	734325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	360932	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	295179	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
35) Dibromofluoromethane	4.86	113	241393	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	
50) Toluene-d8	7.55	98	962660	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
62) 4-Bromofluorobenzene	10.29	95	335655	44.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	814	Below Cal	#	42
5) Bromomethane	1.63	94	676	Below Cal		96
11) Tert butyl alcohol	2.83	59	3677	2.694	ug/l #	73
13) Acrolein	2.19	56	154	0.268	ug/l	94
16) Acetone	2.31	43	14372	4.759	ug/l	99
18) Methyl Acetate	2.61	43	3111	0.399	ug/l #	74
20) Methylene Chloride	2.69	84	13092	2.290	ug/l	97
31) Cyclohexane	4.96	56	8422	0.953	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34141	4.803	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41996	6.120	ug/l #	16
43) Isopropyl Acetate	5.53	43	74436	6.146	ug/l	99
48) Methyl methacrylate	6.52	41	4420	0.756	ug/l #	14
49) 1,4-Dioxane	6.69	88	174	1.188	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67518	8.073	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	34318	3.793	ug/l #	64
56) Ethyl methacrylate	7.88	69	115	0.984	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5688	0.598	ug/l #	42
59) 2-Hexanone	8.40	43	79922	12.658	ug/l #	53
76) 1,2,3-Trichloropropane	10.29	75	163396	20.086	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	163396	67.635	ug/l #	100
95) Naphthalene	13.79	128	19	1.791	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: VU034145.D

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MSVOA_U

ClientSampleId :

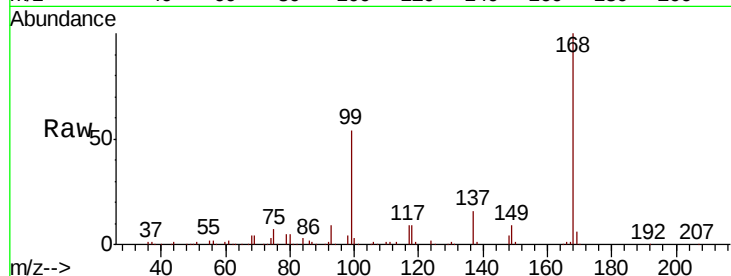
T9-12-13-F2-(0)

Tgt Ion:168 Resp: 461873

Ion Ratio Lower Upper

168 100

99 54.4 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

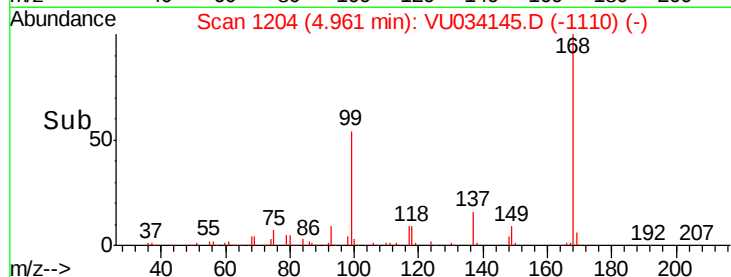
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034145.D

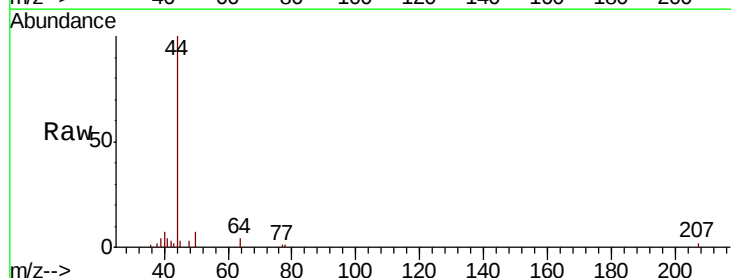
Acq: 01 Sep 2019 00:59

Tgt Ion: 50 Resp: 814

Ion Ratio Lower Upper

50 100

52 0.0 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) (-)

1.33

600

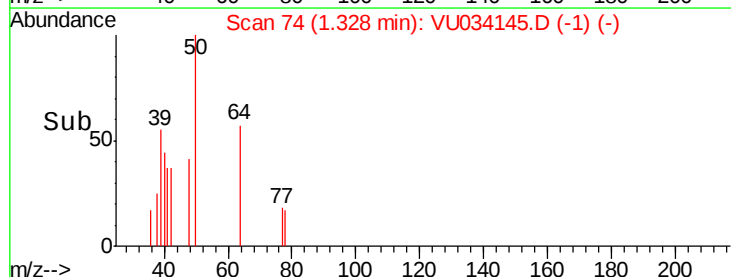
400

200

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

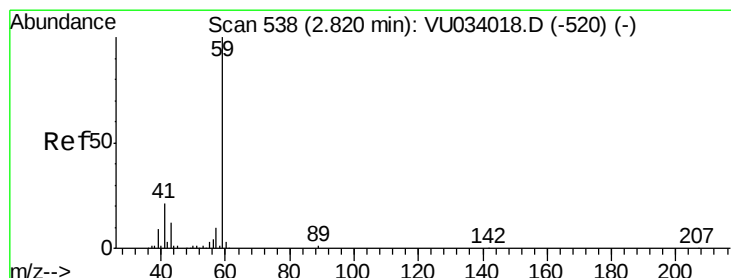
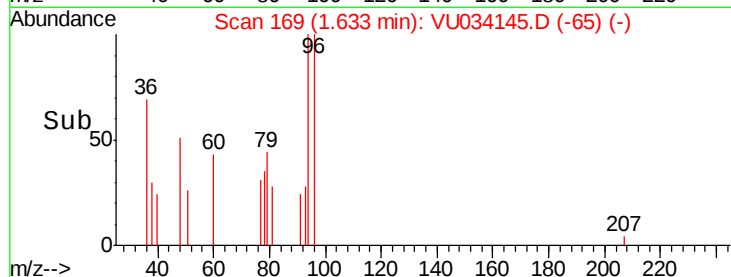
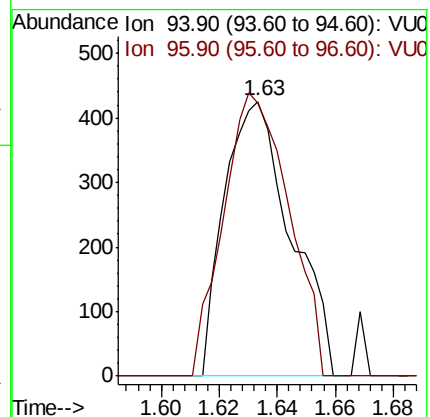
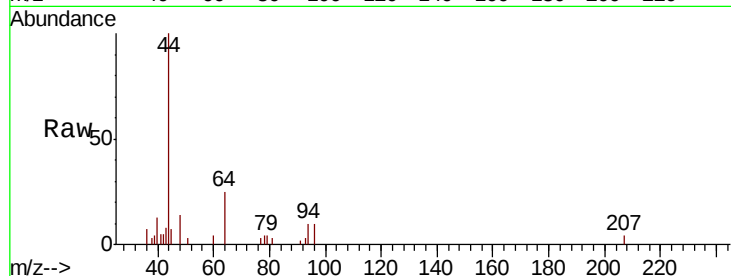
T9-12-13-F2-(0)

Tgt Ion: 94 Resp: 676

Ion Ratio Lower Upper

94 100

96 99.5 76.3 114.5



#11

Tert butyl alcohol

Concen: 2.694 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034145.D

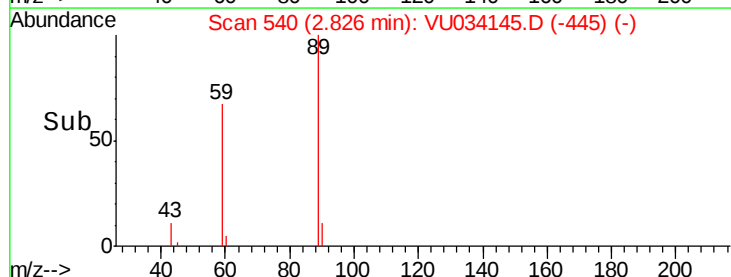
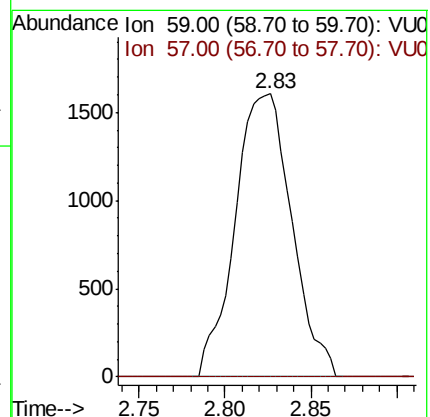
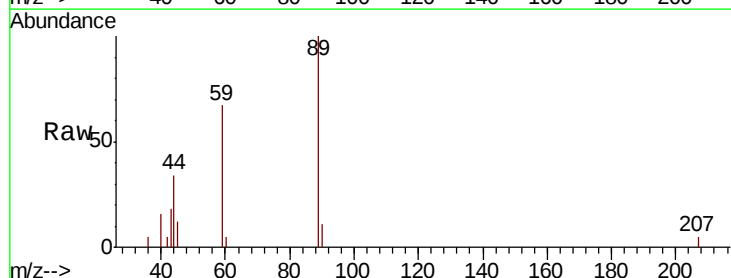
Acq: 01 Sep 2019 00:59

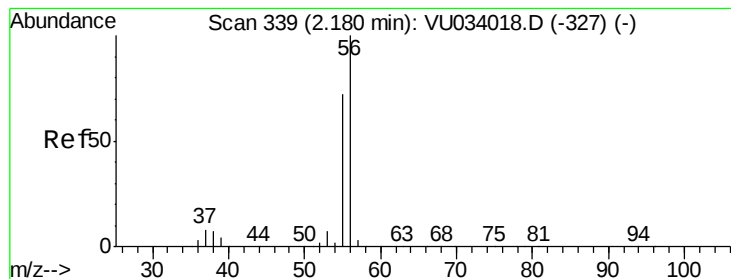
Tgt Ion: 59 Resp: 3677

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#13

Acrolein

Concen: 0.268 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

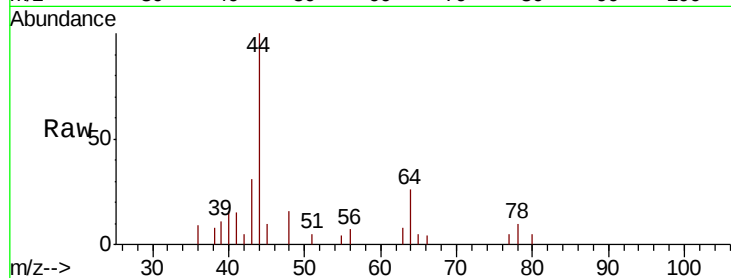
T9-12-13-F2-(0)

Tgt Ion: 56 Resp: 154

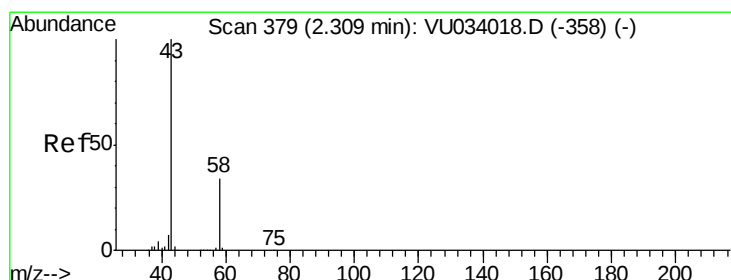
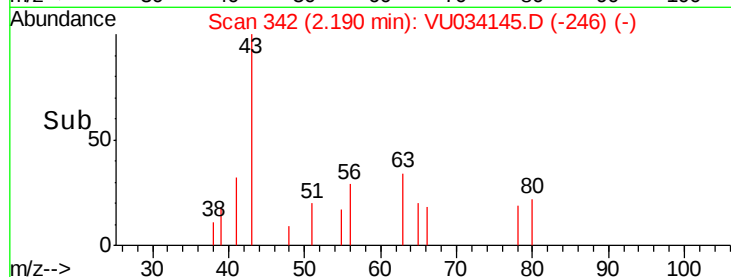
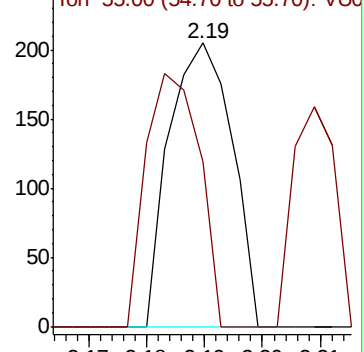
Ion Ratio Lower Upper

56 100

55 76.0 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 4.759 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034145.D

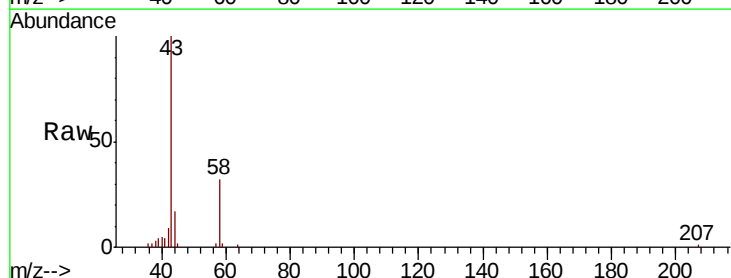
Acq: 01 Sep 2019 00:59

Tgt Ion: 43 Resp: 14372

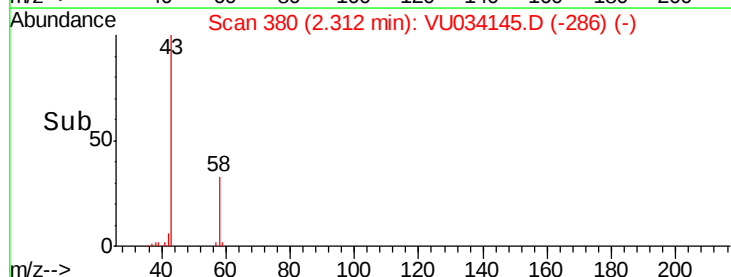
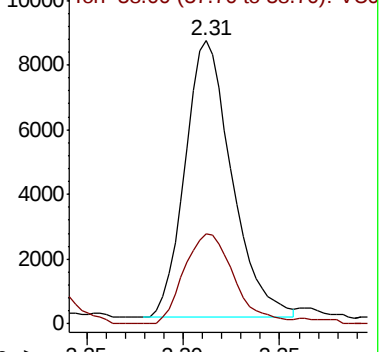
Ion Ratio Lower Upper

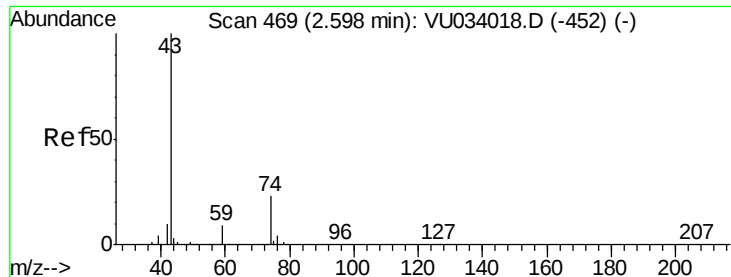
43 100

58 32.8 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

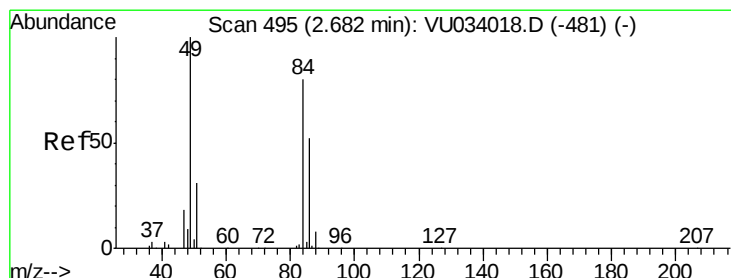
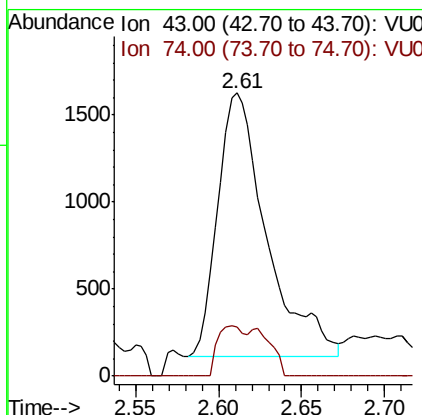
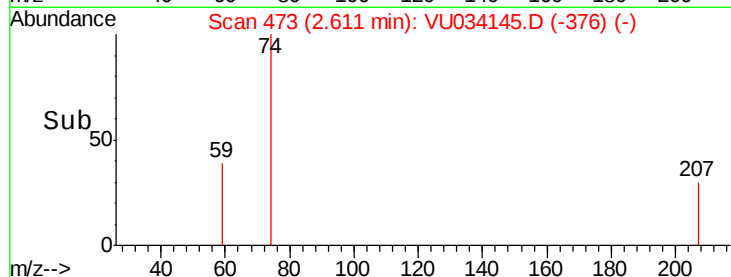
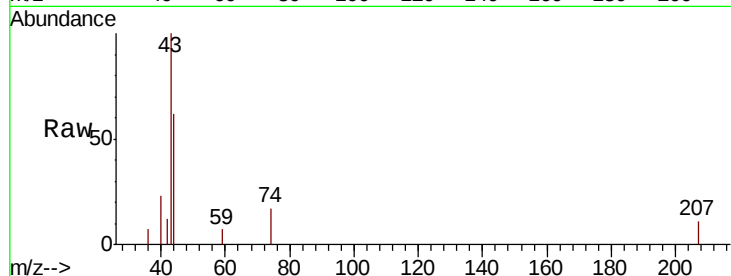




#18
Methyl Acetate
Concen: 0.399 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

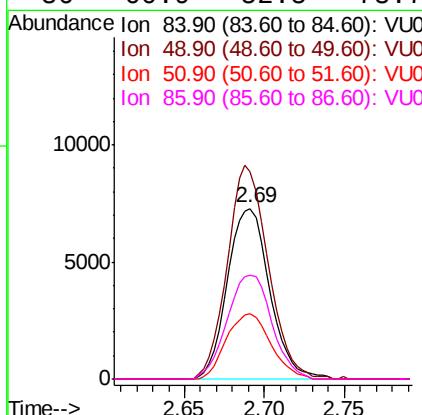
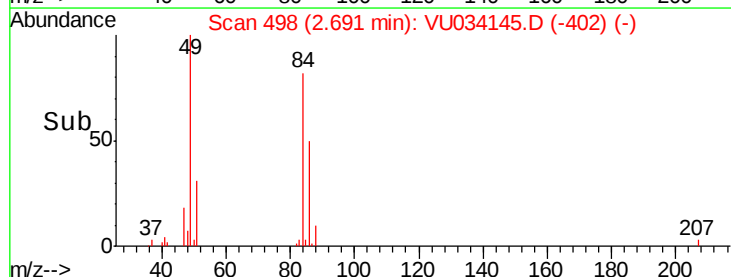
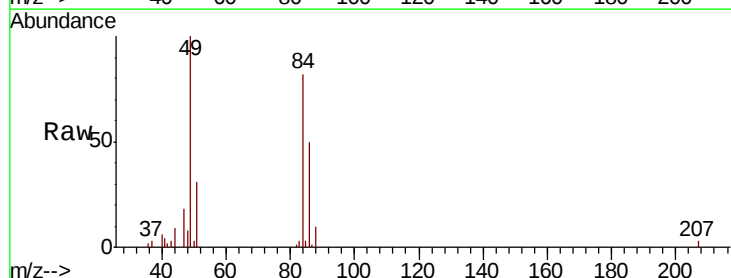
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(0)

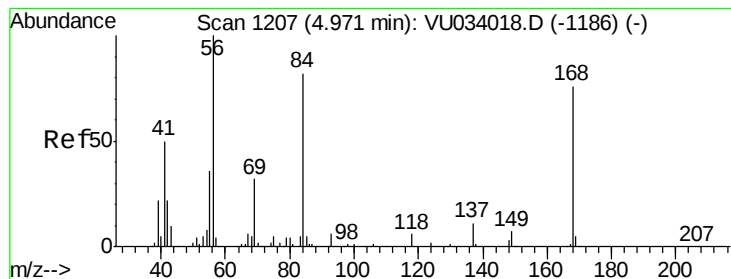
Tgt Ion: 43 Resp: 3111
Ion Ratio Lower Upper
43 100
74 10.9 19.2 28.8#



#20
Methylene Chloride
Concen: 2.290 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

Tgt Ion: 84 Resp: 13092
Ion Ratio Lower Upper
84 100
49 122.0 100.2 150.4
51 38.2 30.8 46.2
86 60.9 52.5 78.7





#31

Cyclohexane

Concen: 0.953 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(0)

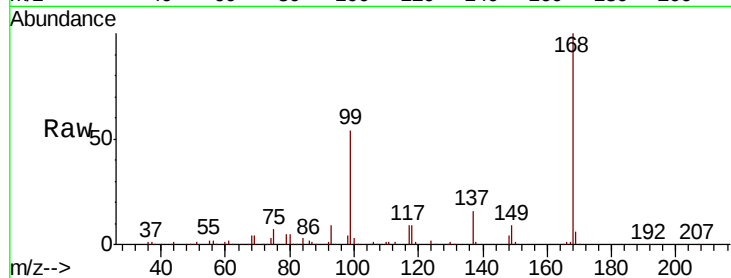
Tgt Ion: 56 Resp: 8422

Ion Ratio Lower Upper

56 100

69 191.7 25.4 38.0#

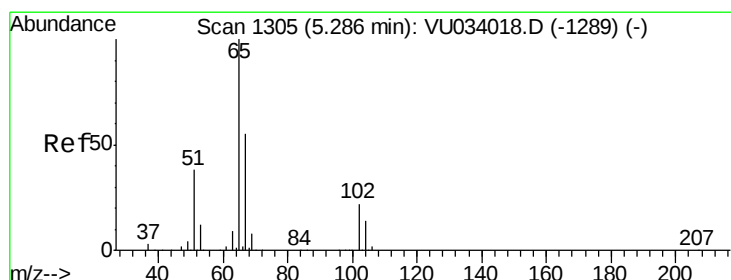
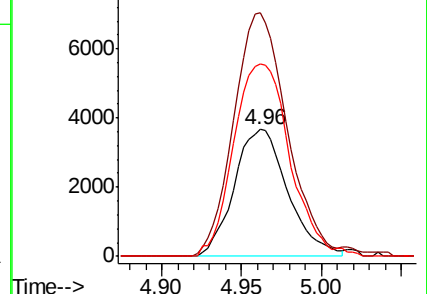
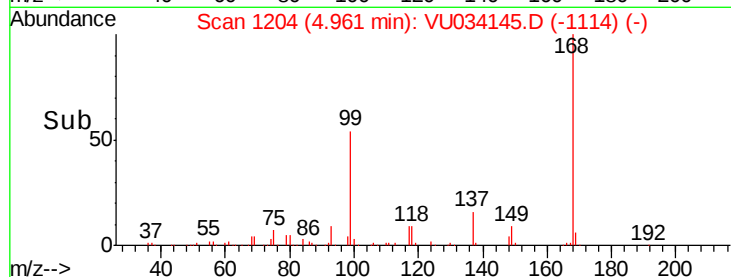
84 151.3 65.8 98.8#



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: 49.877 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034145.D

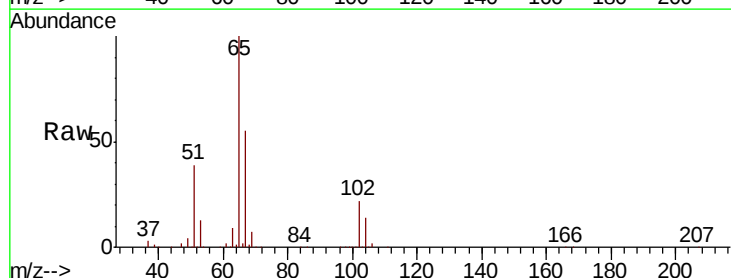
Acq: 01 Sep 2019 00:59

Tgt Ion: 65 Resp: 295179

Ion Ratio Lower Upper

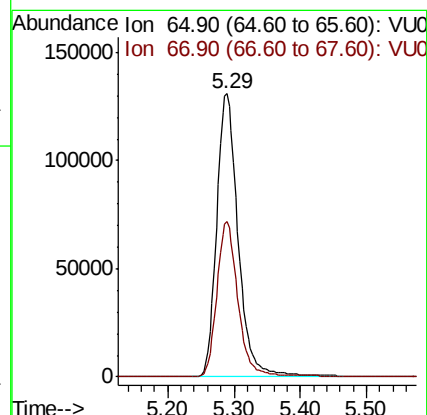
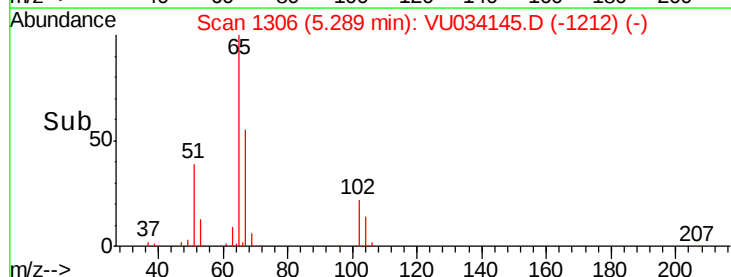
65 100

67 53.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

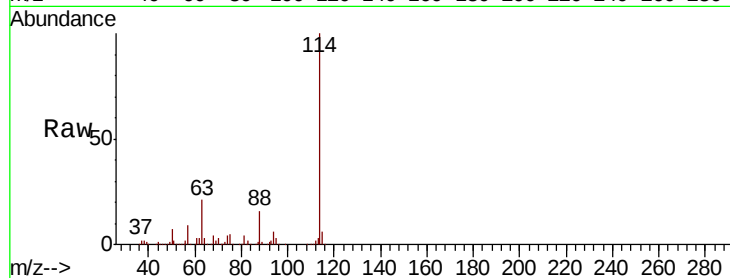




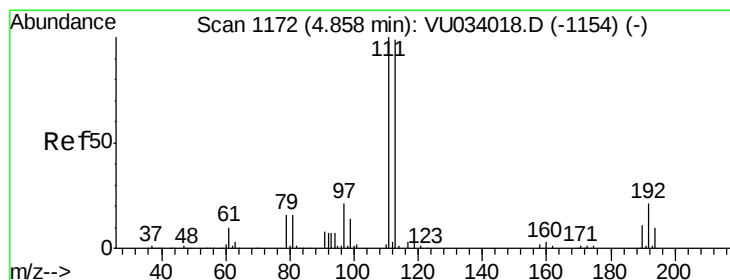
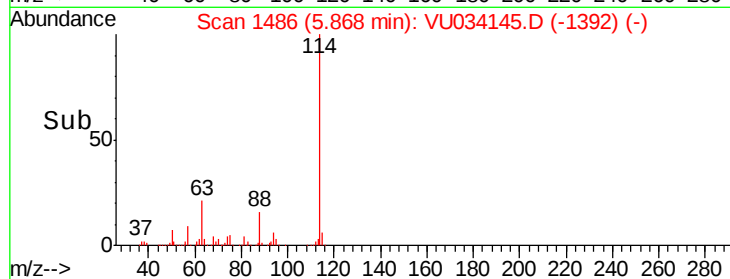
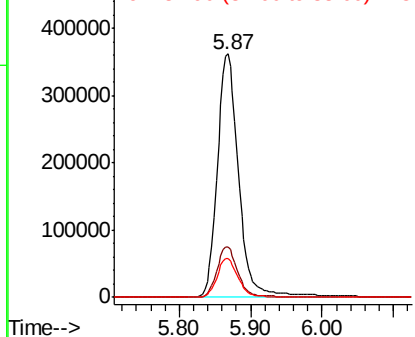
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034145.D
 Acq: 01 Sep 2019 00:59

Instrument :
 MSVOA_U
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Tgt Ion:114 Resp: 751561
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 15.8 0.0 32.0

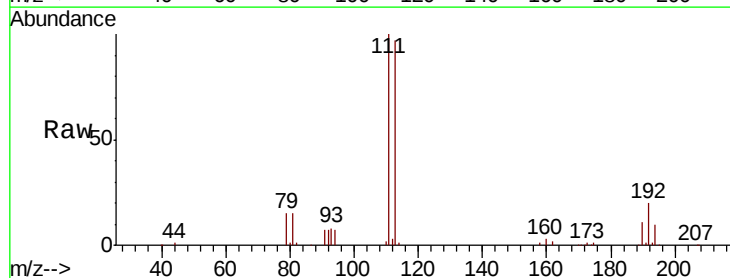


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

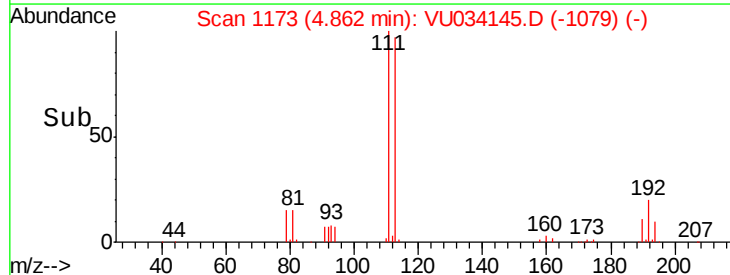
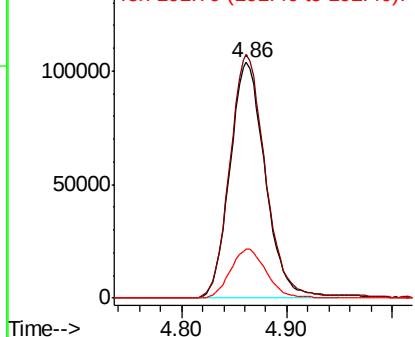


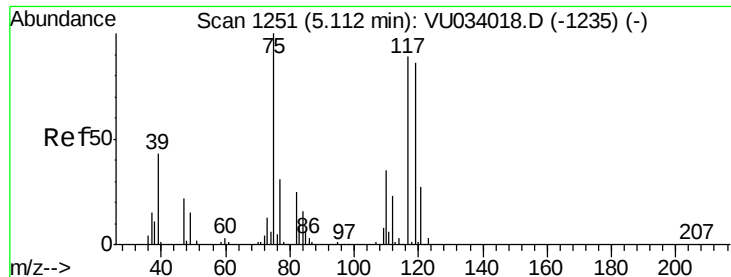
#35
 Dibromofluoromethane
 Concen: 46.308 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034145.D
 Acq: 01 Sep 2019 00:59

Tgt Ion:113 Resp: 241393
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.7 122.5
 192 21.2 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

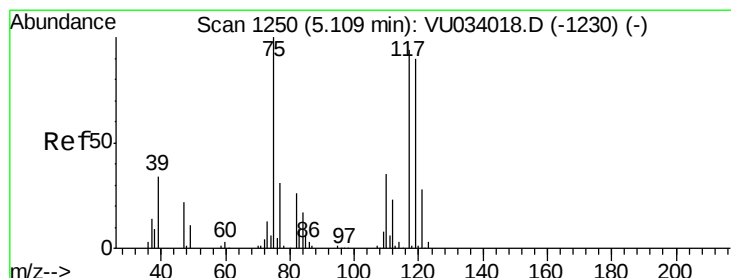
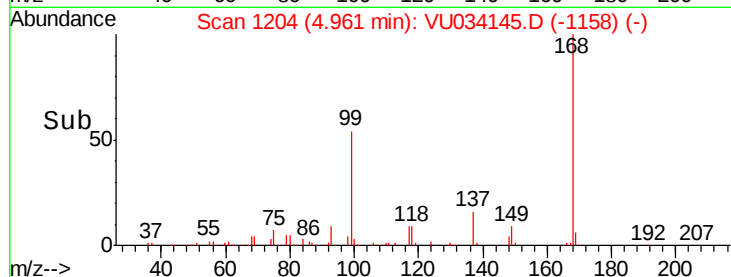
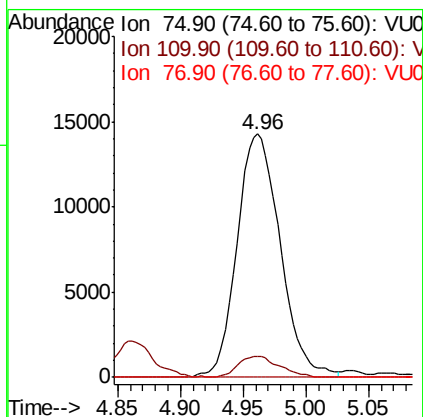
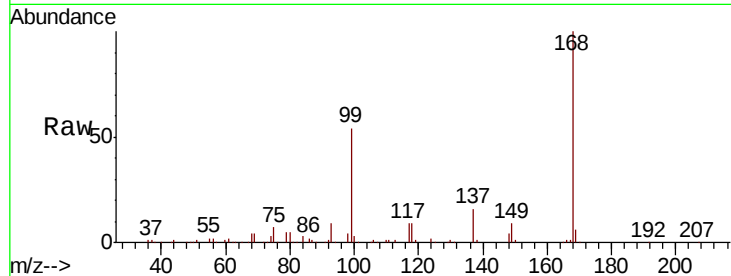




#36
 1,1-Dichloropropene
 Concen: 4.803 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034145.D
 Acq: 01 Sep 2019 00:59

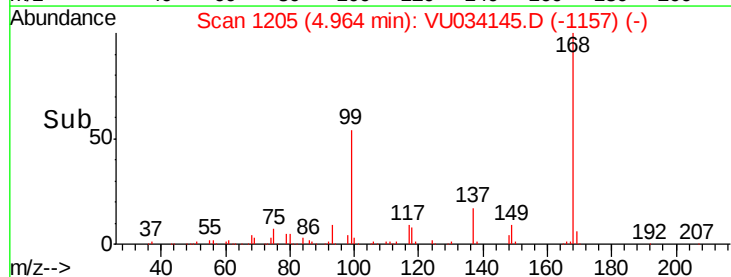
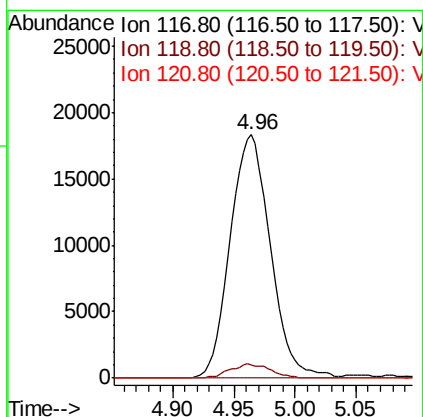
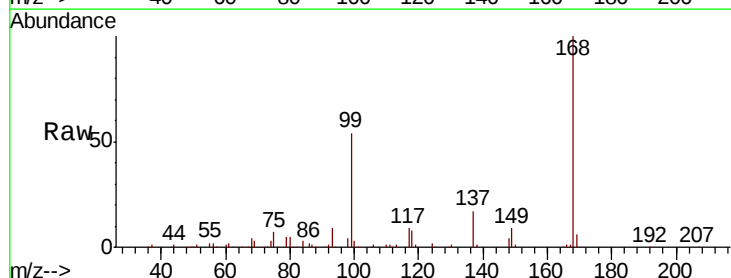
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F2-(0)

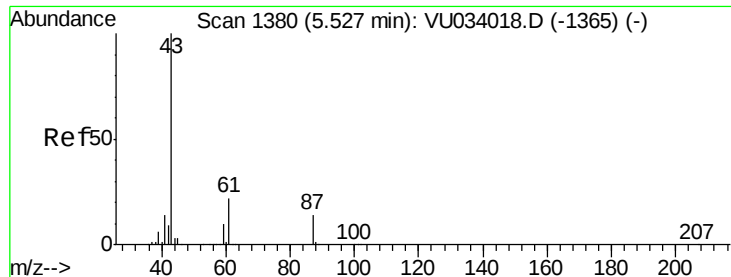
Tgt Ion: 75 Resp: 34141
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.120 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034145.D
 Acq: 01 Sep 2019 00:59

Tgt Ion: 117 Resp: 41996
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.0 115.4#
 121 0.0 23.9 35.9#

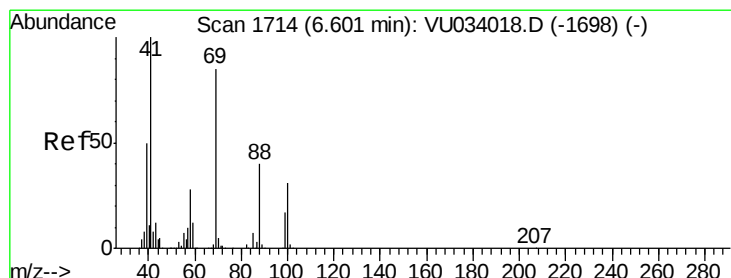
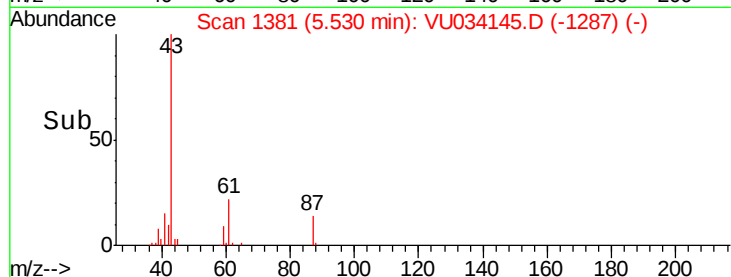
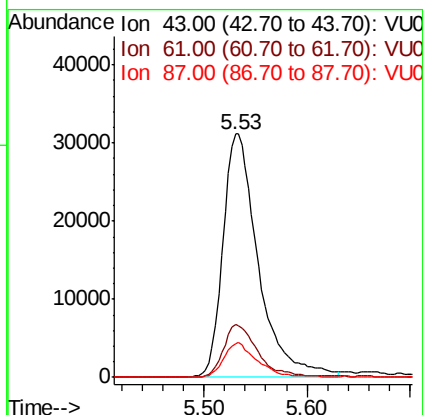
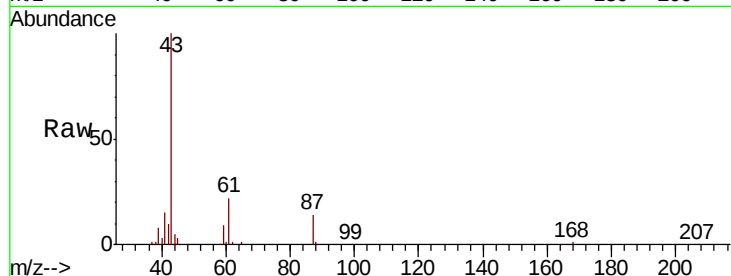




#43
Isopropyl Acetate
Concen: 6.146 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

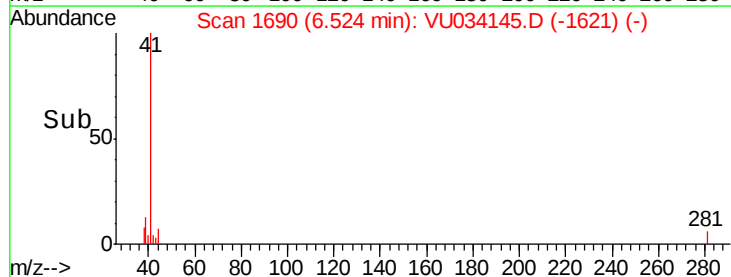
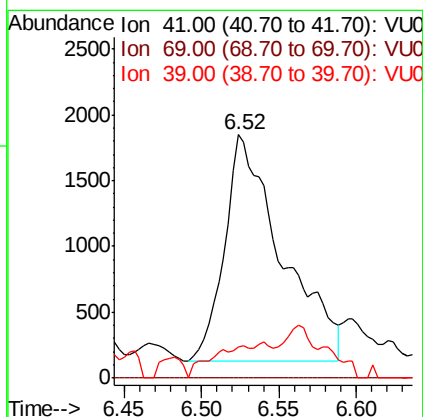
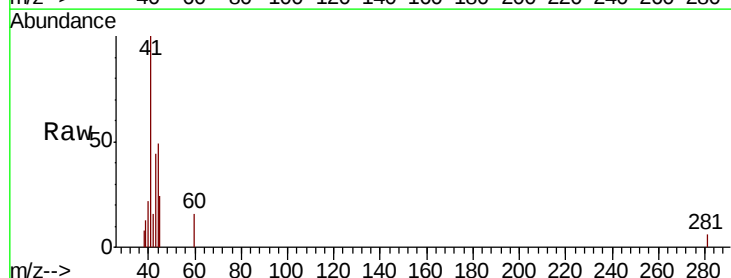
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(0)

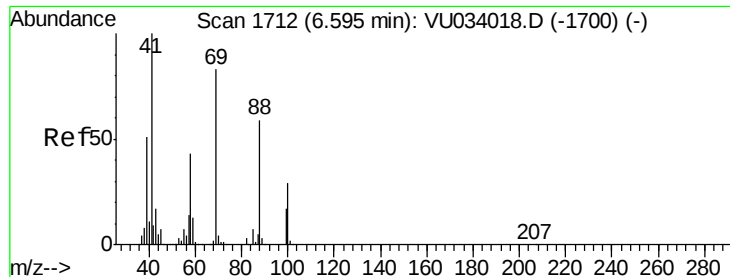
Tgt Ion: 43 Resp: 74436
Ion Ratio Lower Upper
43 100
61 21.0 17.2 25.8
87 13.2 10.8 16.2



#48
Methyl methacrylate
Concen: 0.756 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

Tgt Ion: 41 Resp: 4420
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#





#49

1,4-Dioxane

Concen: 1.188 ug/l

RT: 6.69 min Scan# 1742

Delta R.T. 0.10 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(0)

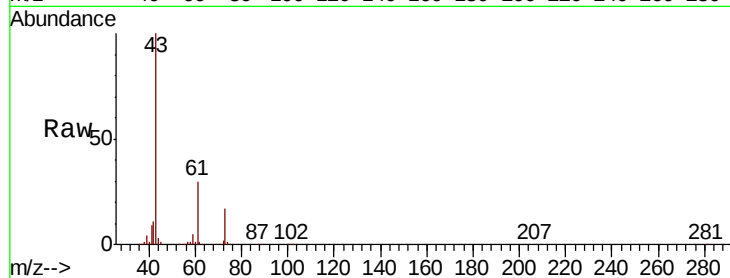
Tgt Ion: 88 Resp: 174

Ion Ratio Lower Upper

88 100

43 751531.0 24.8 37.2#

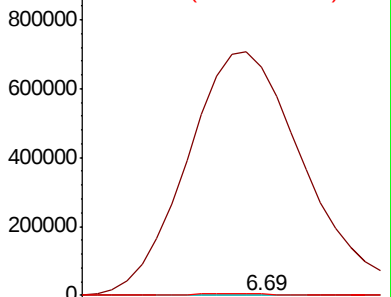
58 3968.4 59.3 88.9#



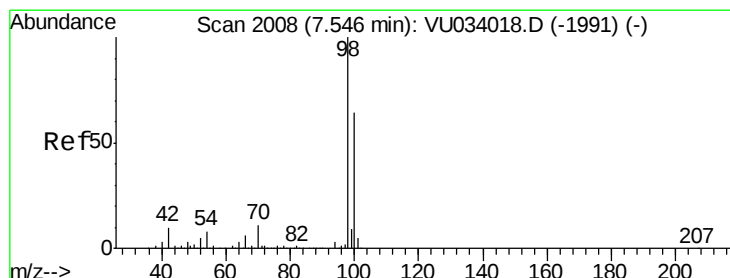
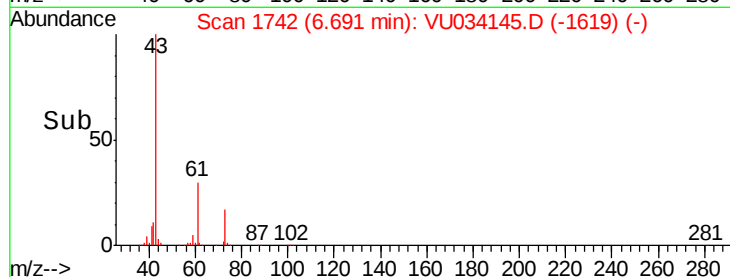
Abundance Ion 88.00 (87.70 to 88.70): VU034145.D (-1742) (-)

Ion 43.00 (42.70 to 43.70): VU034145.D (-1742) (-)

Ion 58.00 (57.70 to 58.70): VU034145.D (-1742) (-)



Time-->



#50

Toluene-d8

Concen: 49.320 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034145.D

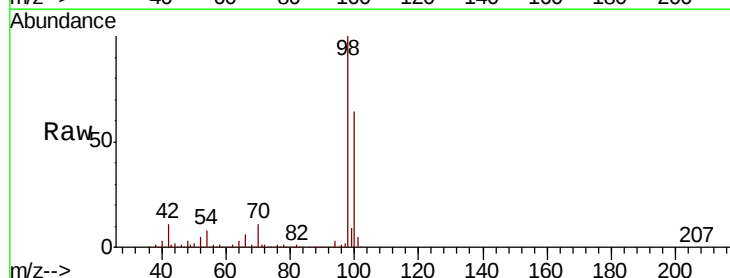
Acq: 01 Sep 2019 00:59

Tgt Ion: 98 Resp: 962660

Ion Ratio Lower Upper

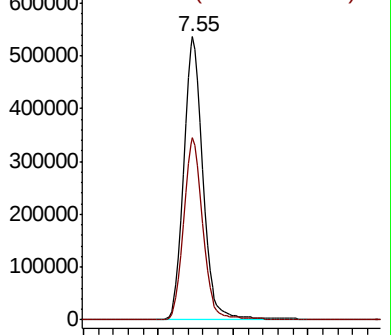
98 100

100 64.6 50.3 75.5

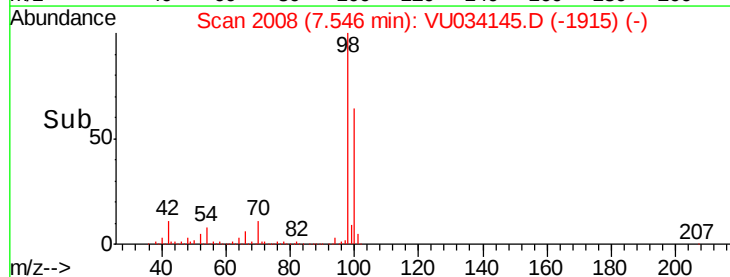


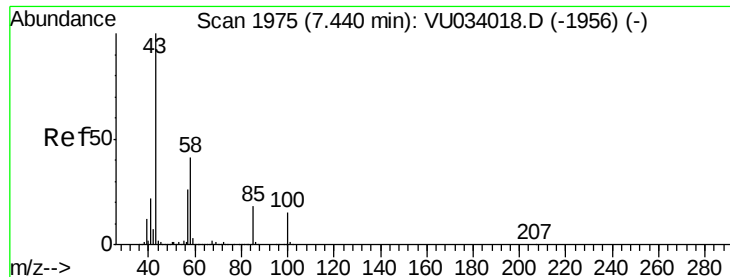
Abundance Ion 98.00 (97.70 to 98.70): VU034145.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034145.D (-2008) (-)



Time-->





#51

4-Methyl-2-Pentanone

Concen: 8.073 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

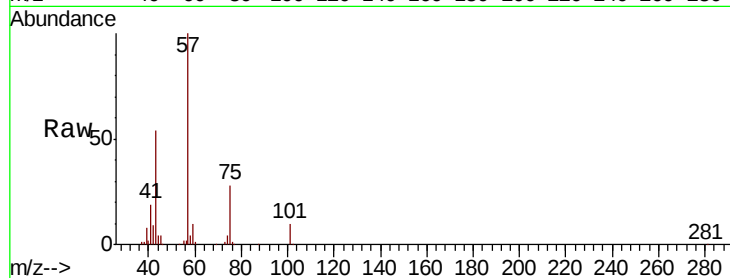
T9-12-13-F2-(0)

Tgt Ion: 43 Resp: 67518

Ion Ratio Lower Upper

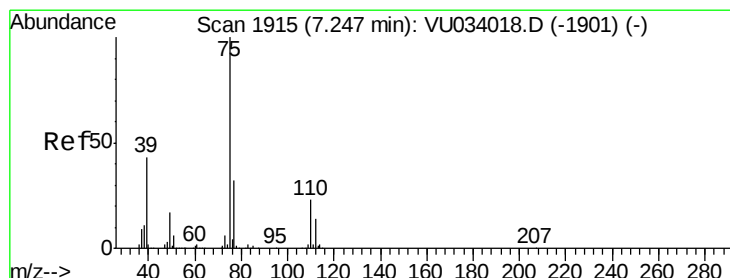
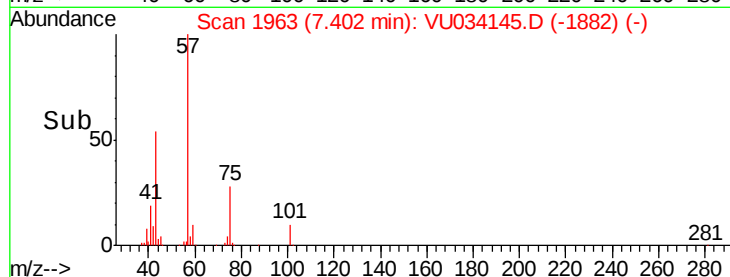
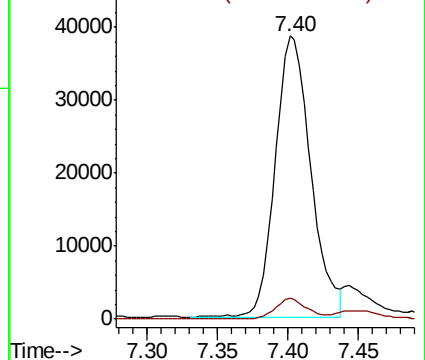
43 100

58 6.6 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 3.793 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

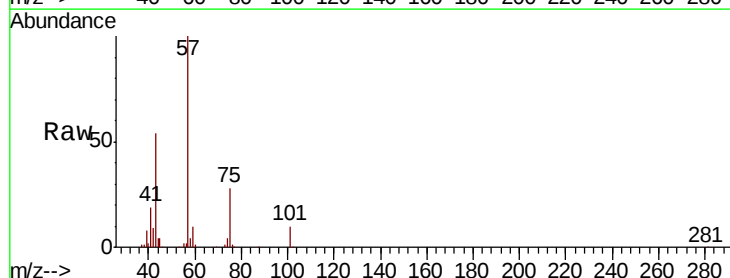
Tgt Ion: 75 Resp: 34318

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

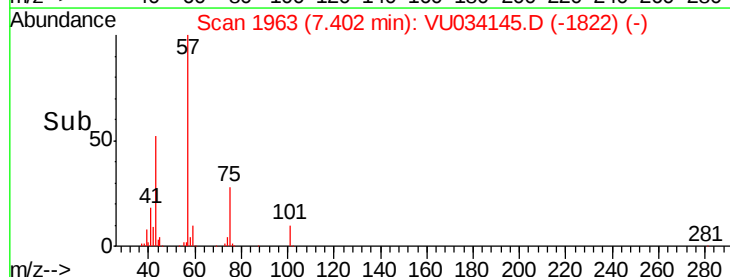
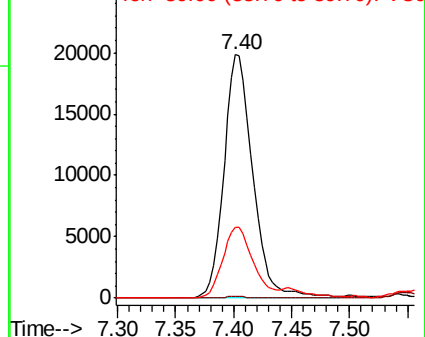
39 29.1 34.6 51.8#

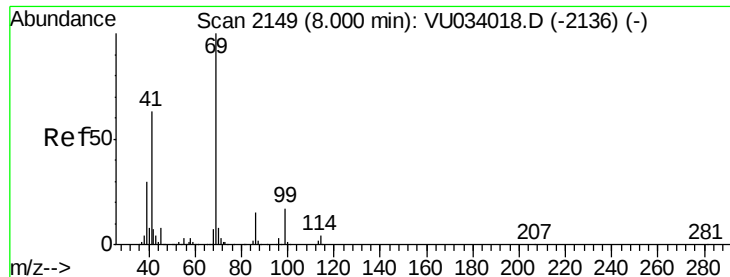


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#56

Ethyl methacrylate

Concen: 0.984 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. -0.12 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

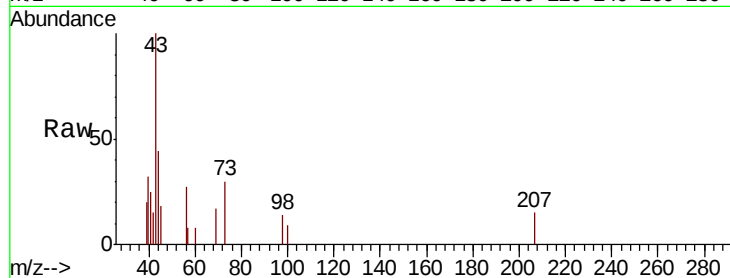
Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(0)

Tgt Ion:	69	Resp:	115
Ion	Ratio	Lower	Upper
69	100		
41	0.0	50.7	76.1#
39	0.0	24.2	36.2#

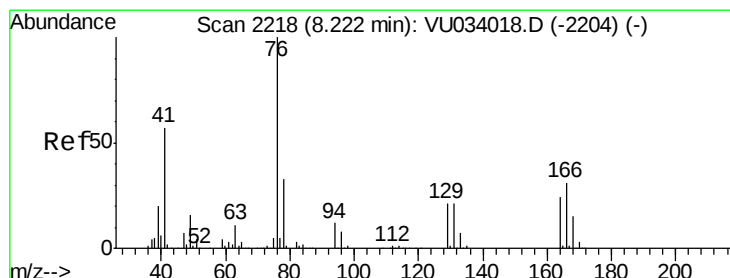
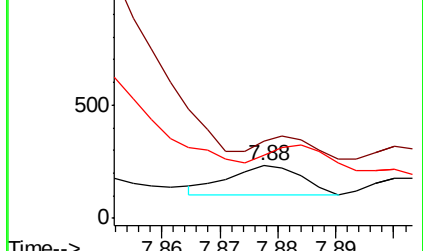
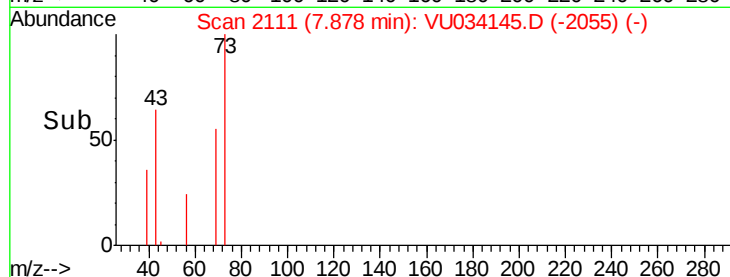


Abundance Ion 69.00 (68.70 to 69.70): VU034018.D (-2136) (-)

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

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

Time-->



#57

1,3-Dichloropropane

Concen: 0.598 ug/l

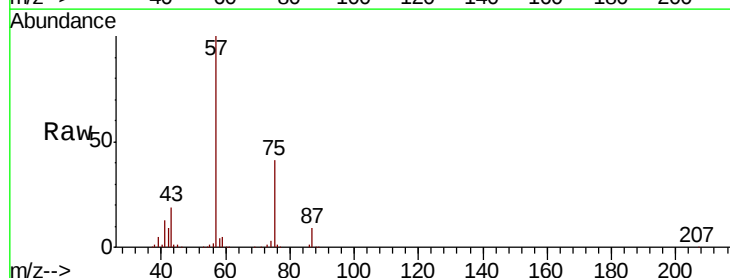
RT: 8.40 min Scan# 2274

Delta R.T. 0.18 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

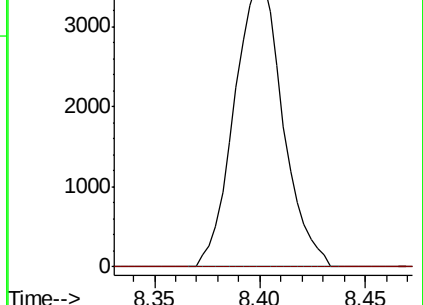
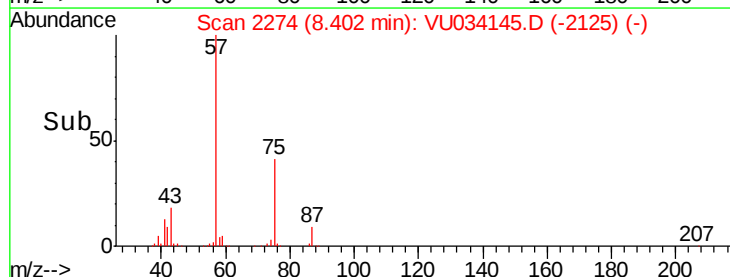
Tgt Ion:	76	Resp:	5688
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#

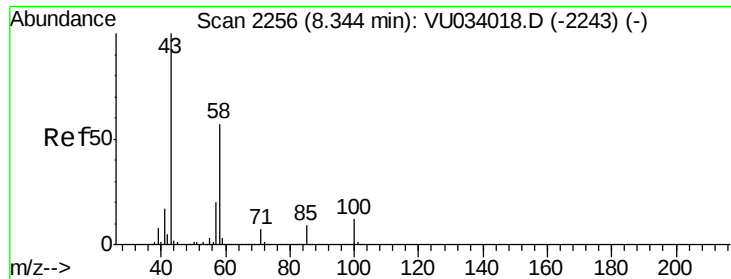


Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)

Time-->

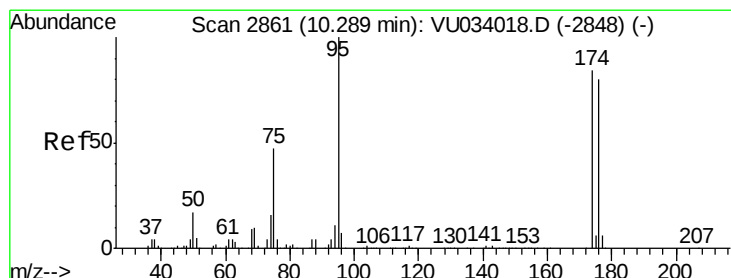
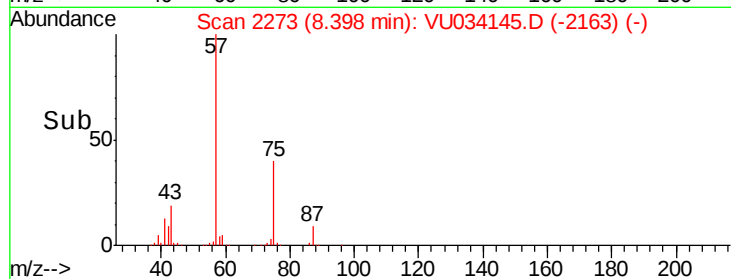
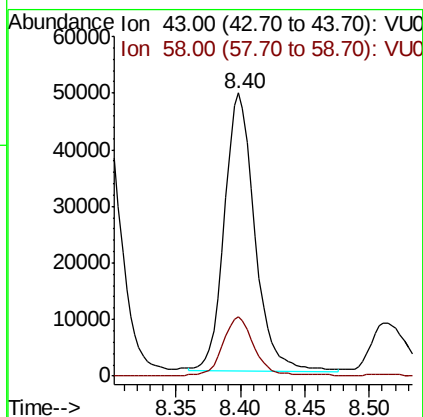
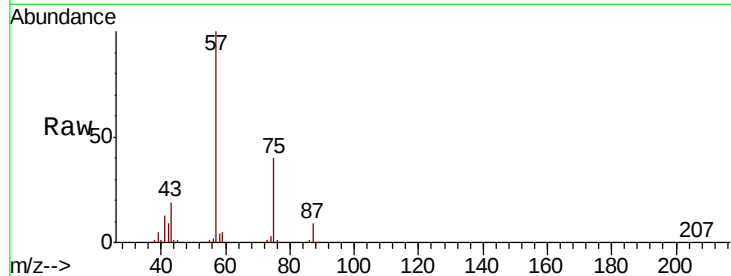




#59
2-Hexanone
Concen: 12.658 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

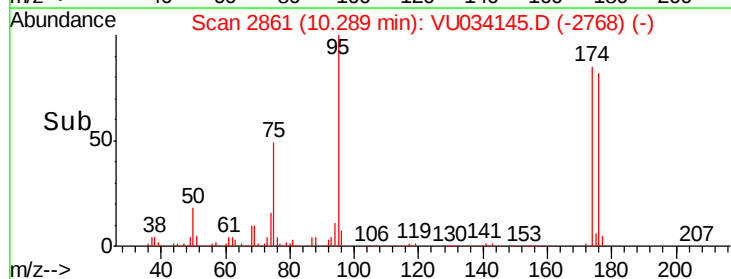
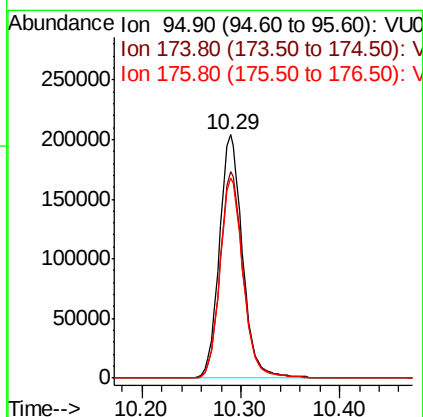
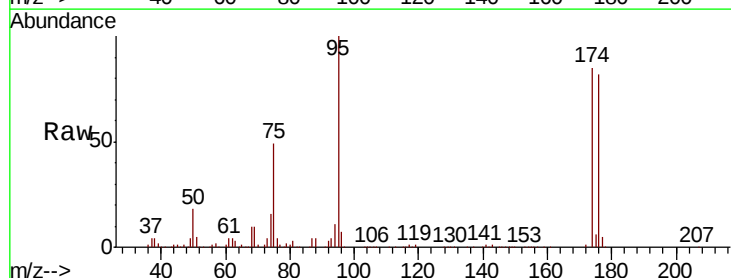
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(0)

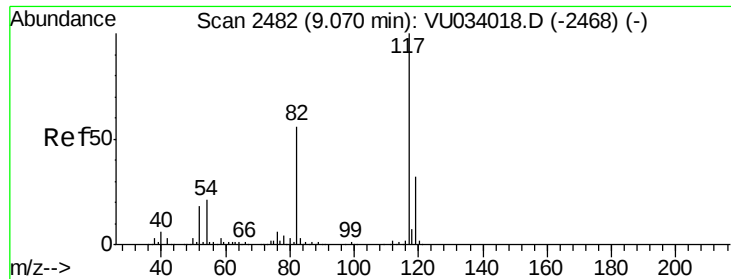
Tgt Ion: 43 Resp: 79922
Ion Ratio Lower Upper
43 100
58 22.3 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.209 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

Tgt Ion: 95 Resp: 335655
Ion Ratio Lower Upper
95 100
174 85.1 0.0 168.8
176 82.4 0.0 161.8

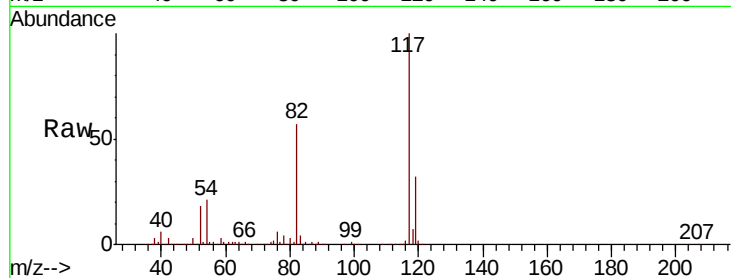




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034145.D
Acq: 01 Sep 2019 00:59

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F2-(0)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.1	67.7
119	32.4	25.4	38.0

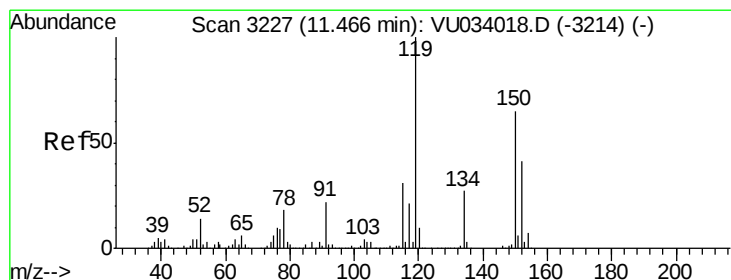
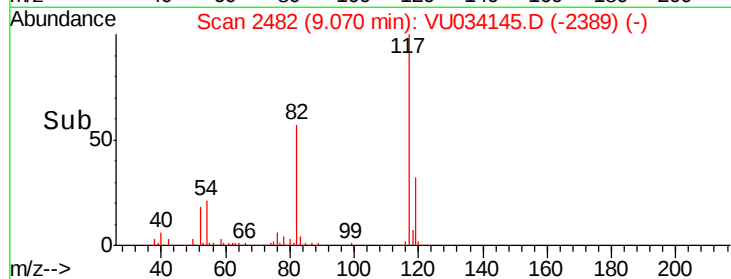
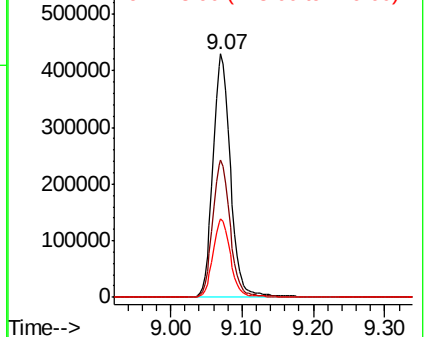


Abundance

Ion 116.90 (116.60 to 117.60): V

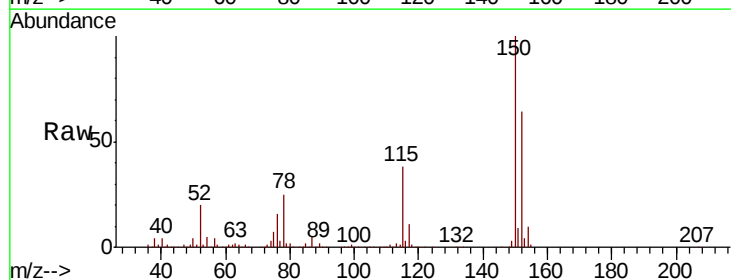
Ion 82.00 (81.70 to 82.70): V

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: VU034145.D
Acq: 01 Sep 2019 00:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	41.1	123.3
150	155.3	0.0	348.8

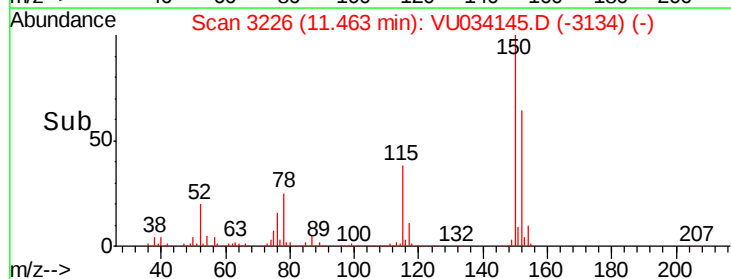
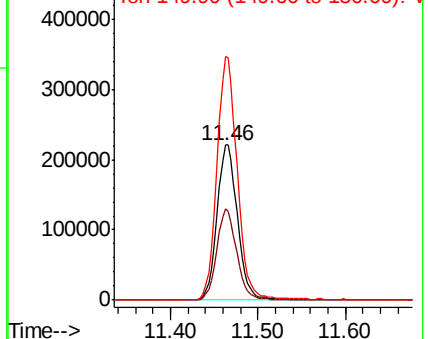


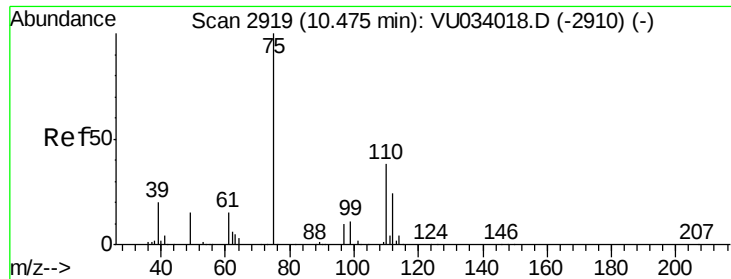
Abundance

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: 20.086 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampled :

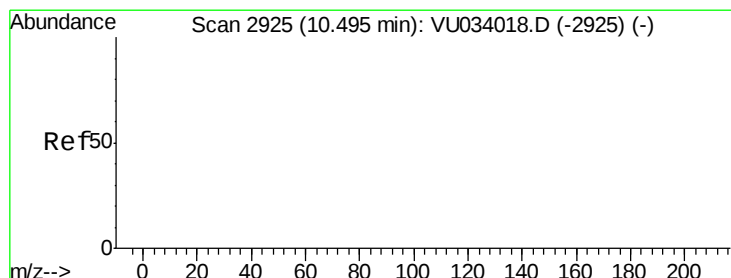
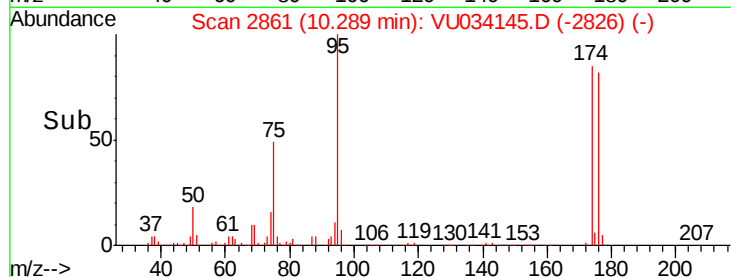
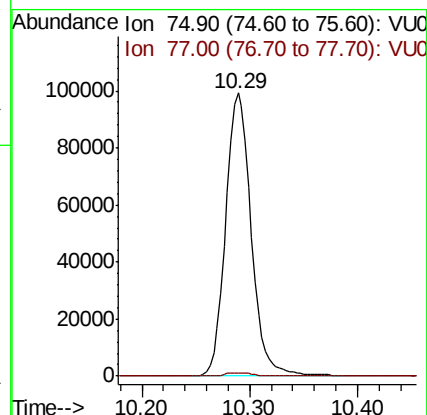
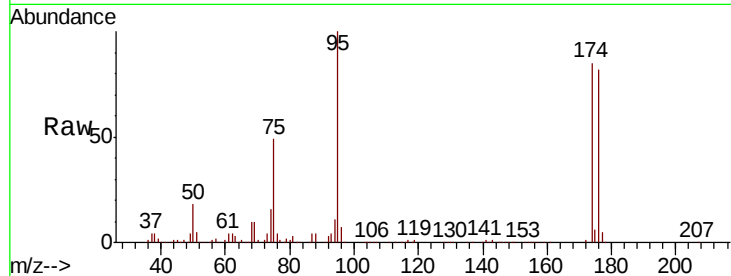
T9-12-13-F2-(0)

Tgt Ion: 75 Resp: 163396

Ion Ratio Lower Upper

75 100

77 1.3 20.1 60.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.635 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

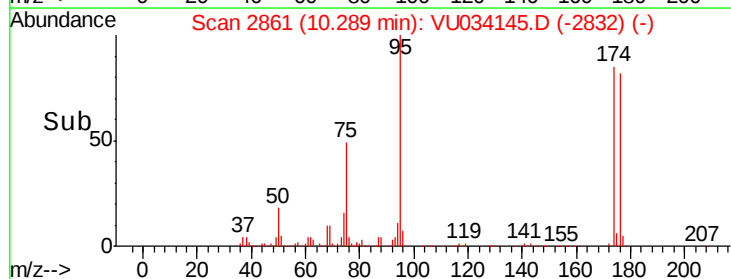
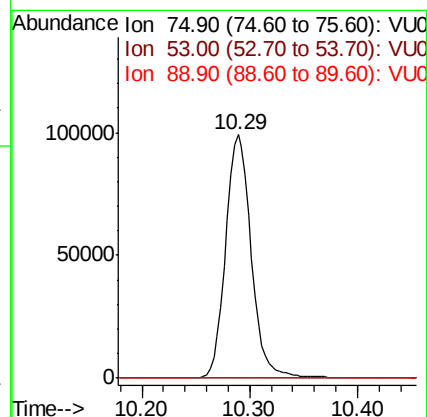
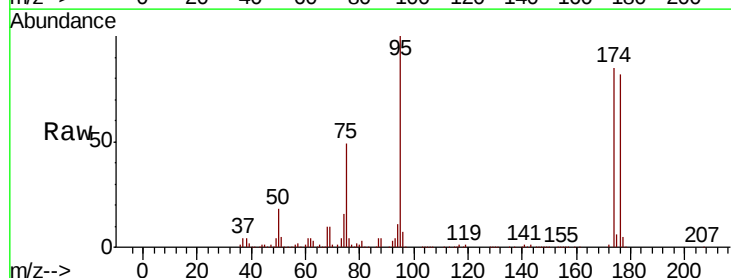
Tgt Ion: 75 Resp: 163396

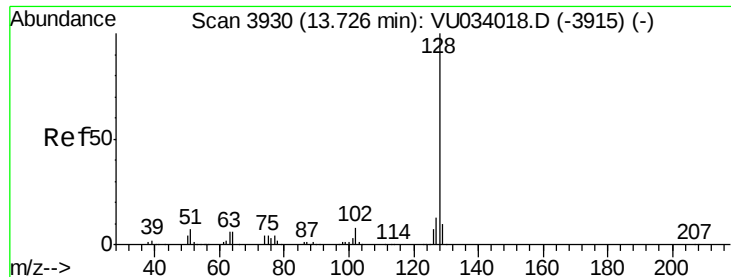
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0#





#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.79 min Scan# 3949

Delta R.T. 0.06 min

Lab File: VU034145.D

Acq: 01 Sep 2019 00:59

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F2-(0)

Tgt Ion:128 Resp: 19

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

