

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034265.D
 Acq On : 04 Sep 2019 18:04
 Operator : JC/SP
 Sample : K4547-37
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(2.5)

Quant Time: Sep 05 03:40:47 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	424479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	670783	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	687139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335188	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	262959	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	4.86	113	225006	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	7.55	98	896591	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	10.29	95	307880	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	

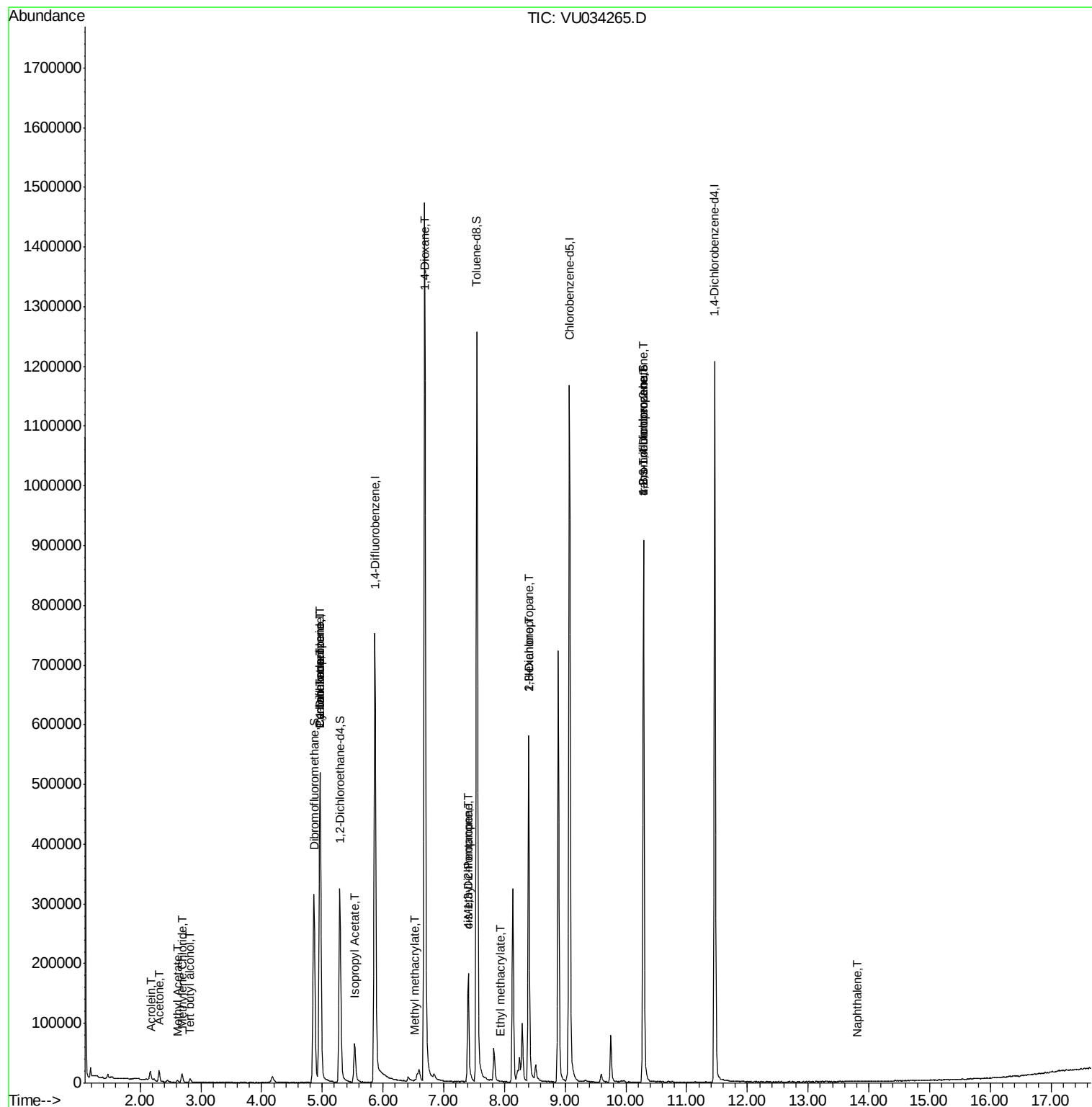
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	461	Below Cal	#	86
5) Bromomethane	1.59	94	106	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	3909	3.117	ug/l #	73
13) Acrolein	2.19	56	389	0.737	ug/l #	38
16) Acetone	2.31	43	20788	7.491	ug/l	96
18) Methyl Acetate	2.61	43	2627	0.366	ug/l	92
20) Methylene Chloride	2.69	84	6831	1.300	ug/l	94
31) Cyclohexane	4.96	56	7588	0.934	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29769	4.692	ug/l #	49
38) Carbon Tetrachloride	4.96	117	38822	6.339	ug/l #	17
43) Isopropyl Acetate	5.53	43	76396	7.068	ug/l	100
48) Methyl methacrylate	6.53	41	4432	0.850	ug/l #	14
49) 1,4-Dioxane	6.68	88	66	0.505	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	64118	8.589	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	34309	4.249	ug/l #	64
56) Ethyl methacrylate	7.94	69	220	0.998	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5943	0.700	ug/l #	42
59) 2-Hexanone	8.40	43	80342	14.257	ug/l #	52
76) 1,2,3-Trichloropropane	10.29	75	143106	18.943	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	143106	63.786	ug/l #	100
95) Naphthalene	13.81	128	41	1.792	ug/l #	70

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

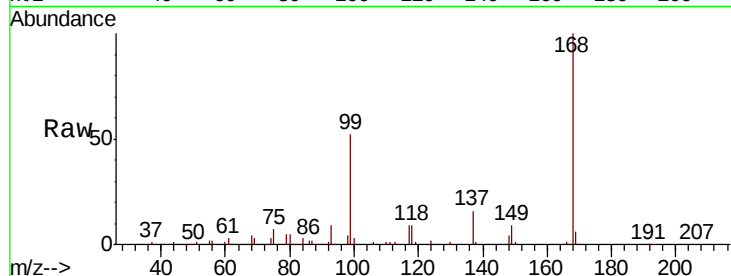
T12-1-(2.5)

Tgt Ion:168 Resp: 424479

Ion Ratio Lower Upper

168 100

99 52.5 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

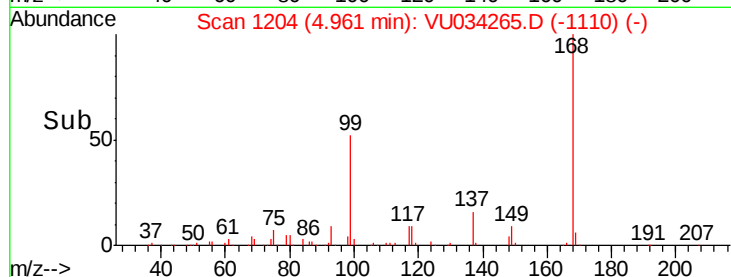
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034265.D

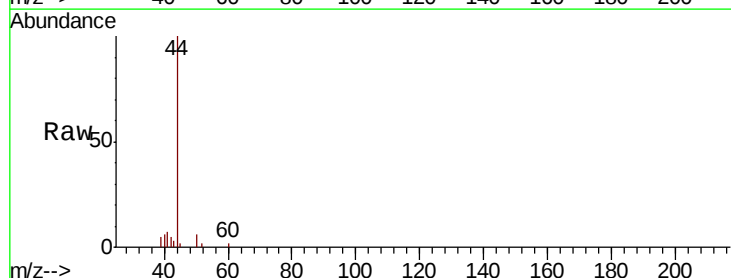
Acq: 04 Sep 2019 18:04

Tgt Ion: 50 Resp: 461

Ion Ratio Lower Upper

50 100

52 40.9 26.2 39.4#



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

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

1.32

400

300

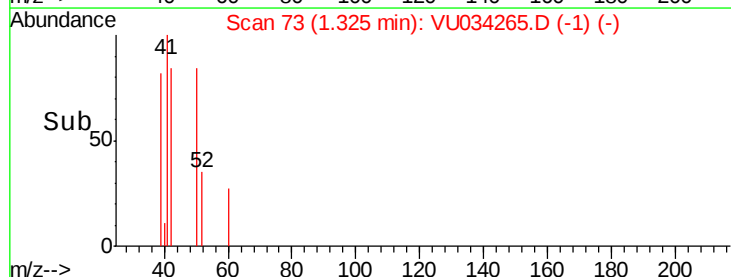
200

100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

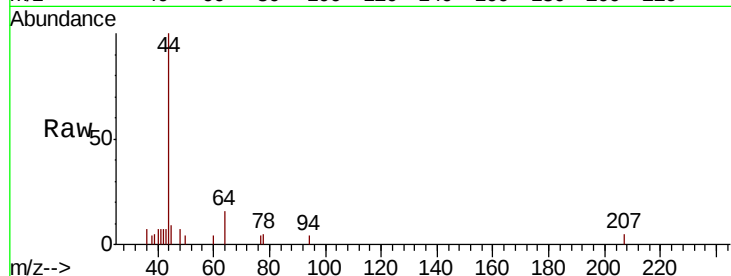
T12-1-(2.5)

Tgt Ion: 94 Resp: 106

Ion Ratio Lower Upper

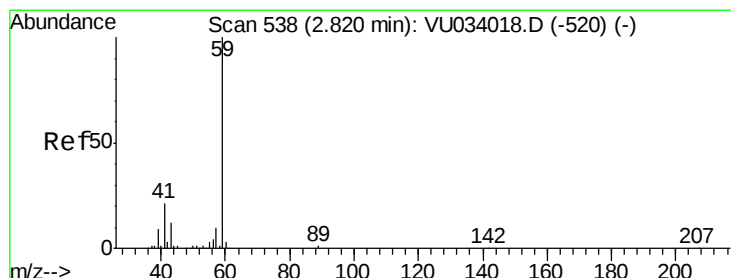
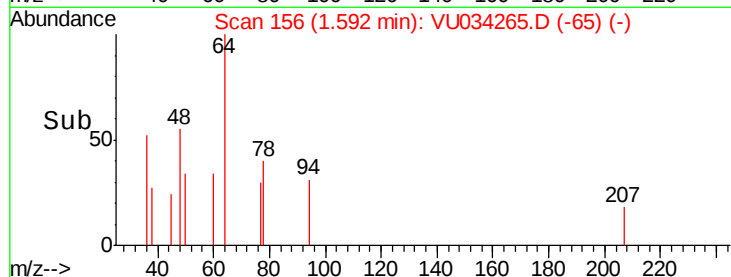
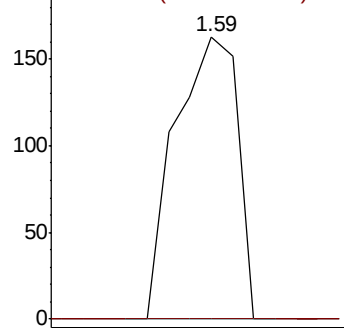
94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 3.117 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034265.D

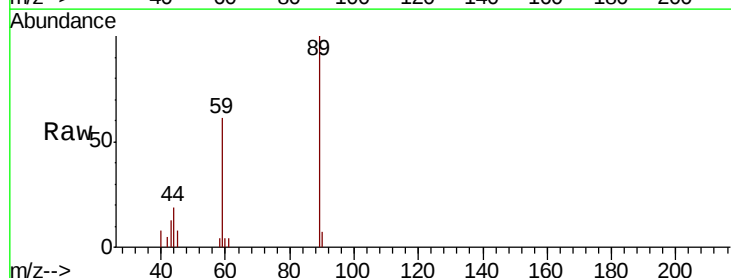
Acq: 04 Sep 2019 18:04

Tgt Ion: 59 Resp: 3909

Ion Ratio Lower Upper

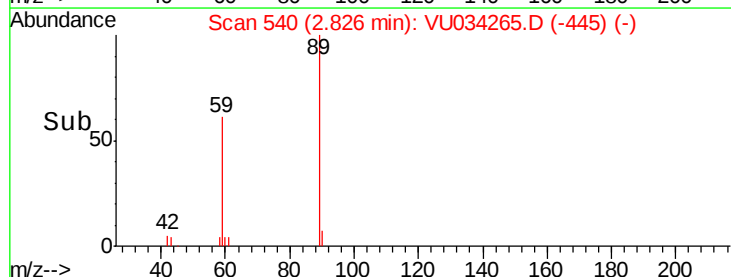
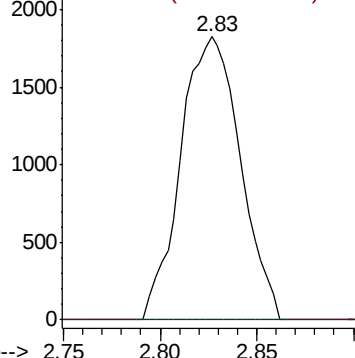
59 100

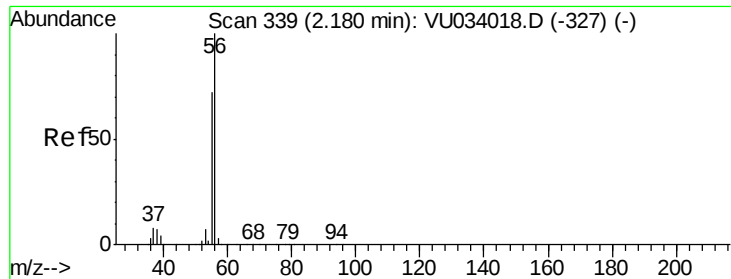
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.737 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

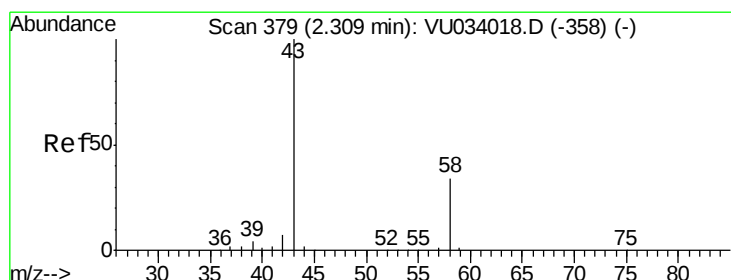
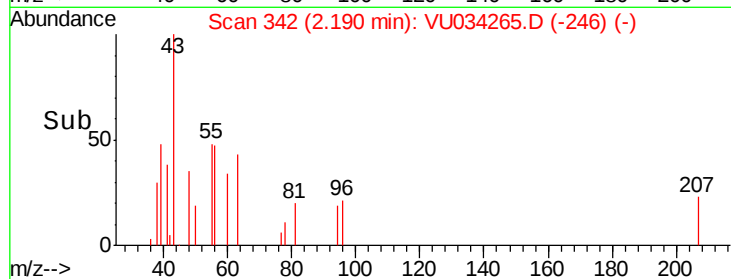
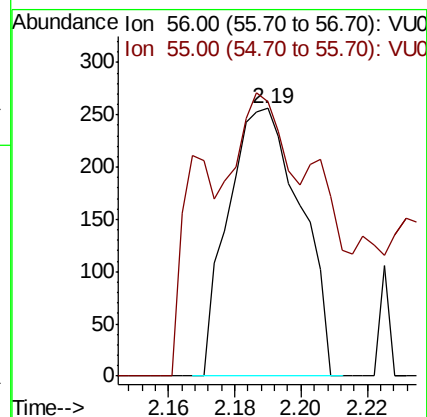
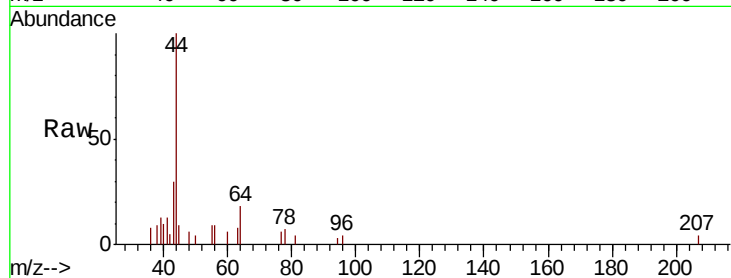
T12-1-(2.5)

Tgt Ion: 56 Resp: 389

Ion Ratio Lower Upper

56 100

55 20.1 57.1 85.7#



#16

Acetone

Concen: 7.491 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034265.D

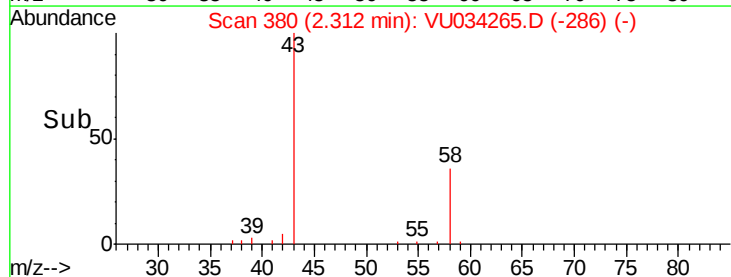
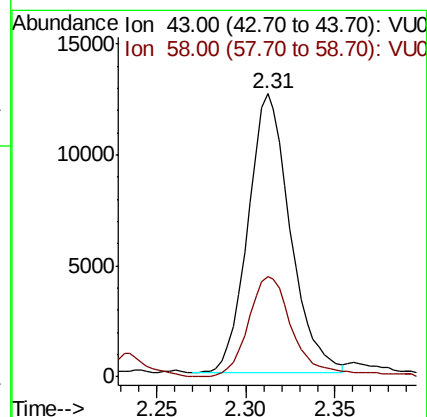
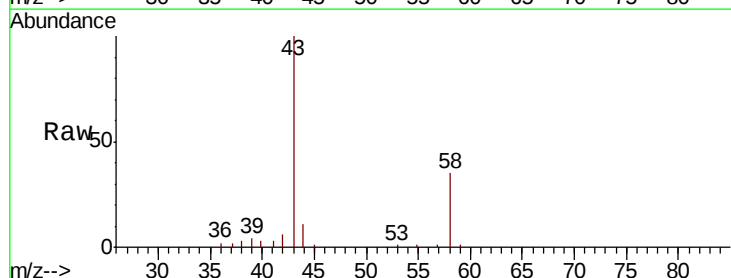
Acq: 04 Sep 2019 18:04

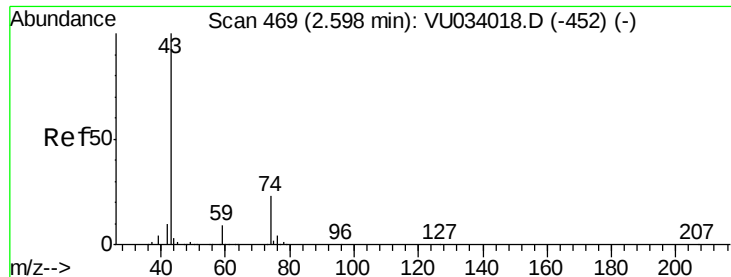
Tgt Ion: 43 Resp: 20788

Ion Ratio Lower Upper

43 100

58 35.8 26.8 40.2

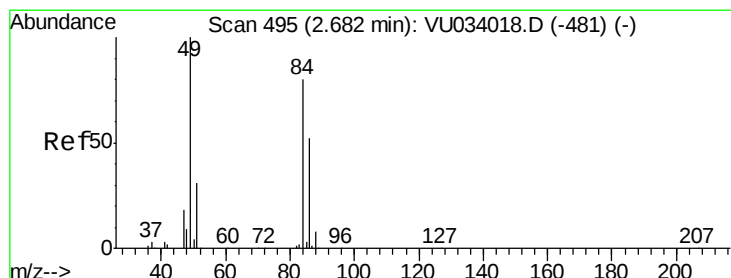
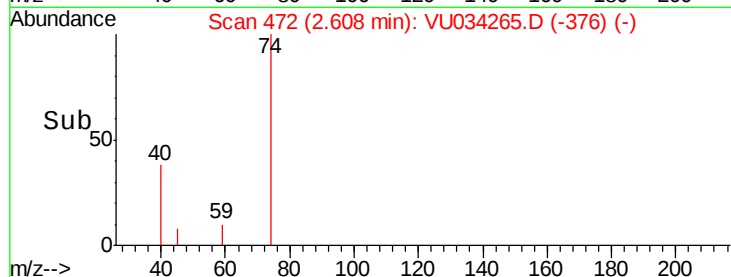
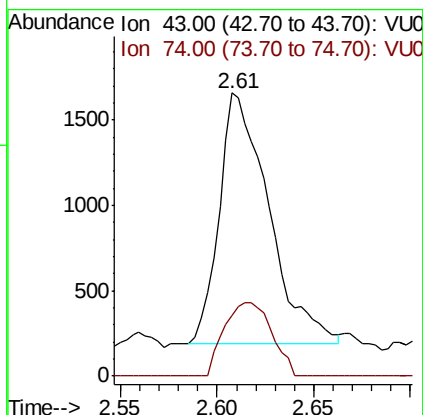
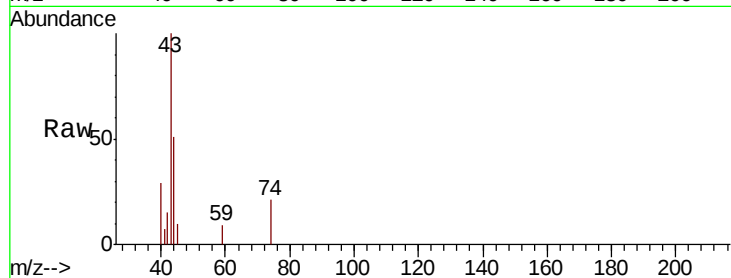




#18
Methyl Acetate
Concen: 0.366 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

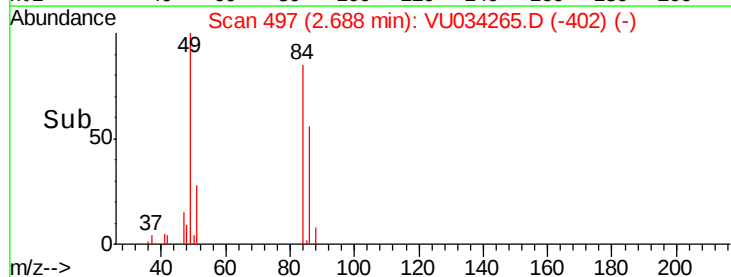
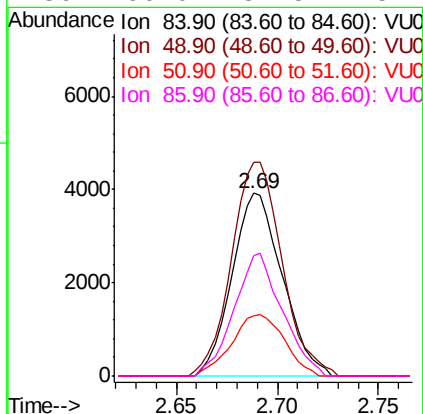
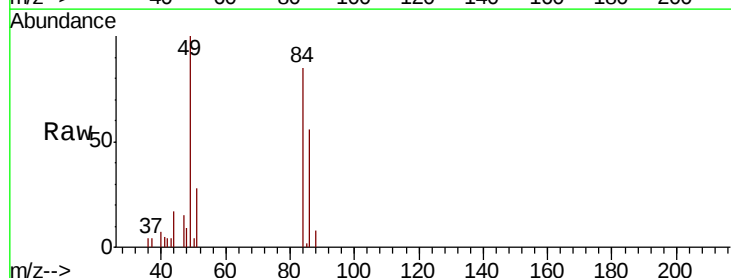
Instrument :
MSVOA_U
ClientSampleId :
T12-1-(2.5)

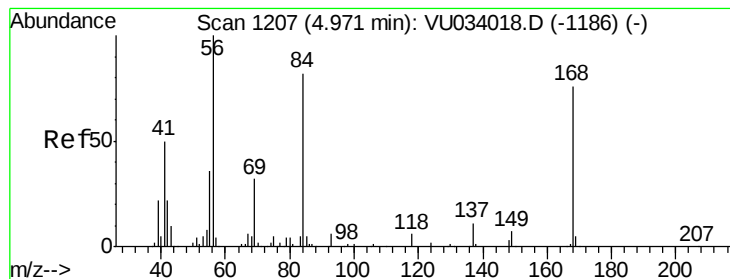
Tgt Ion: 43 Resp: 2627
Ion Ratio Lower Upper
43 100
74 28.1 19.2 28.8



#20
Methylene Chloride
Concen: 1.300 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

Tgt Ion: 84 Resp: 6831
Ion Ratio Lower Upper
84 100
49 117.0 100.2 150.4
51 33.0 30.8 46.2
86 66.0 52.5 78.7





#31

Cyclohexane

Concen: 0.934 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(2.5)

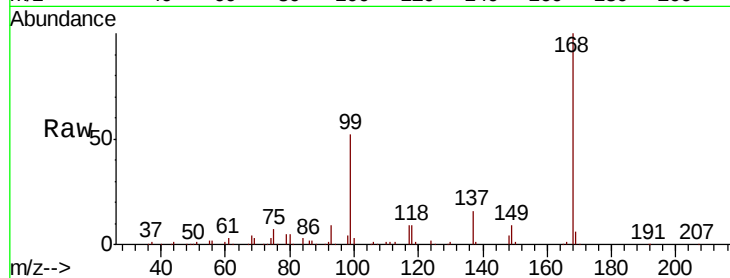
Tgt Ion: 56 Resp: 7588

Ion Ratio Lower Upper

56 100

69 185.5 25.4 38.0#

84 178.1 65.8 98.8#

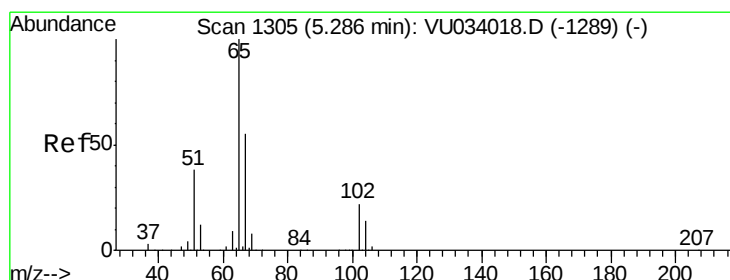
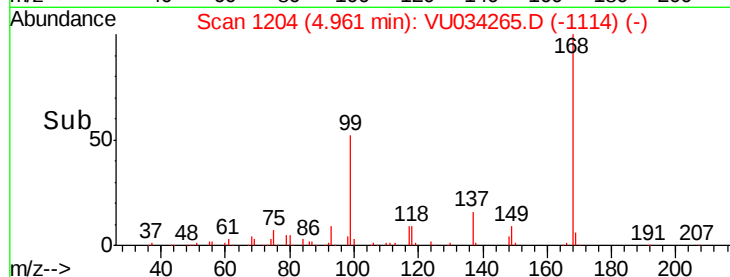
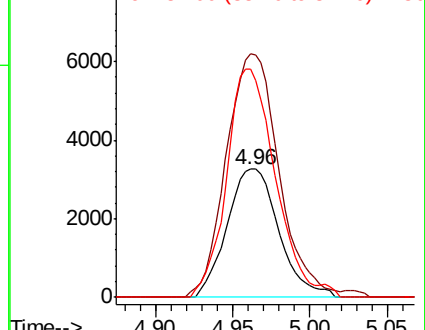


Abundance

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: 48.347 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034265.D

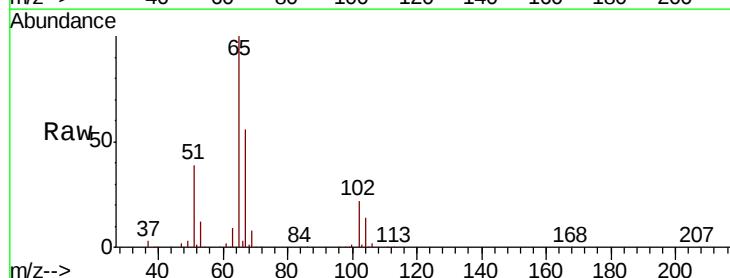
Acq: 04 Sep 2019 18:04

Tgt Ion: 65 Resp: 262959

Ion Ratio Lower Upper

65 100

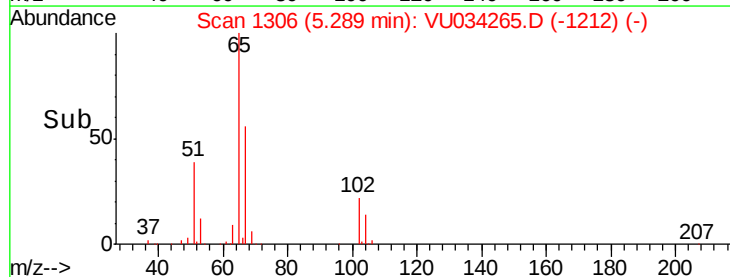
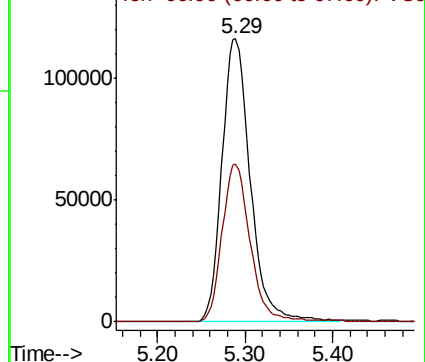
67 55.1 0.0 110.6

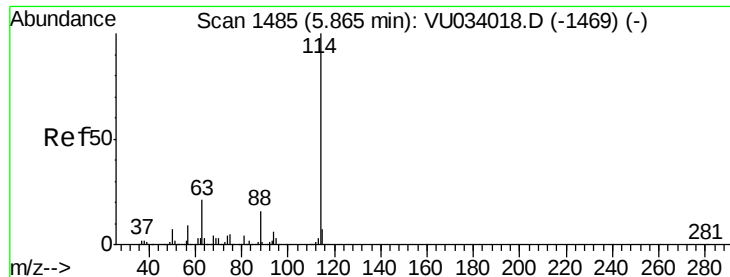


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

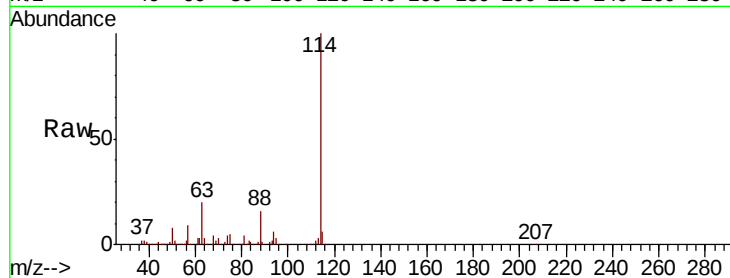




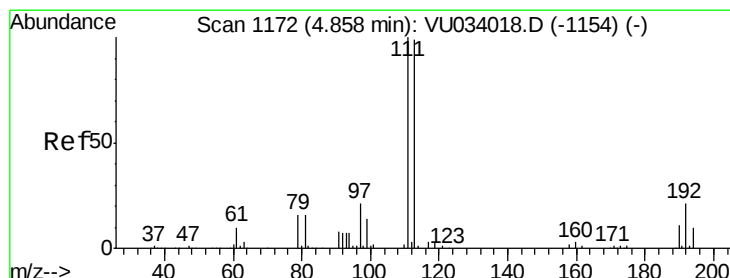
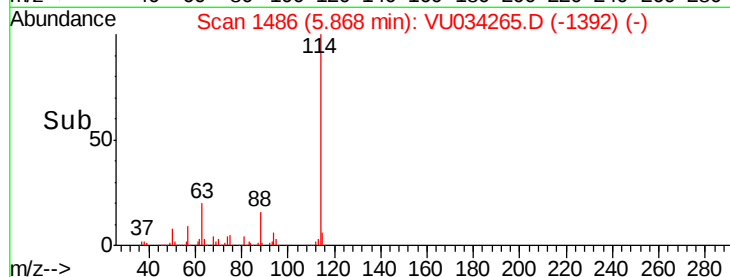
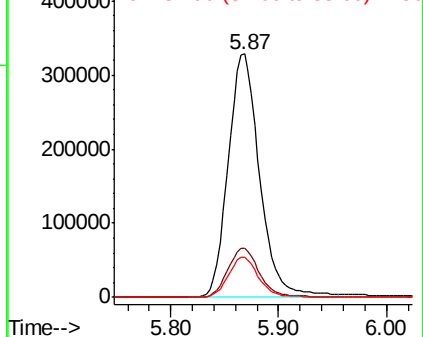
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Instrument :
 MSVOA_U
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 T12-1-(2.5)

Tgt Ion:114 Resp: 670783
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.0
 88 16.3 0.0 32.0

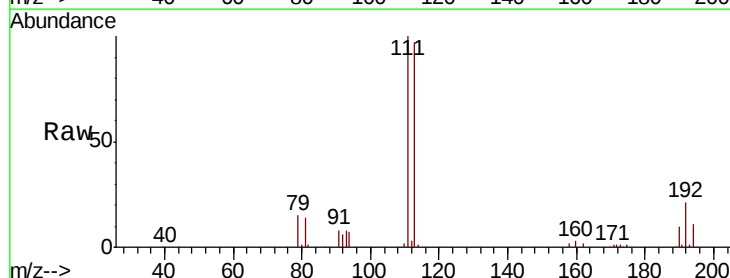


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

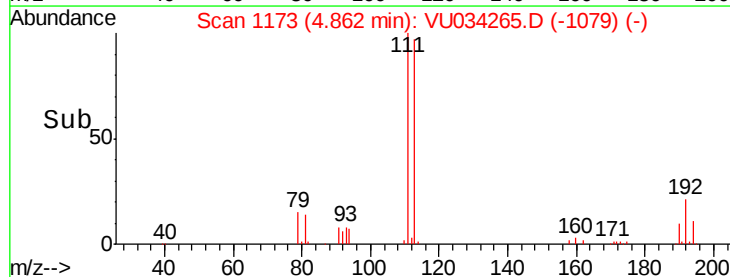
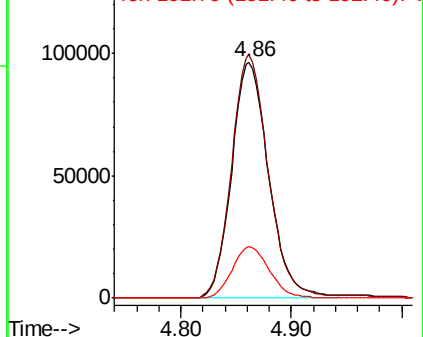


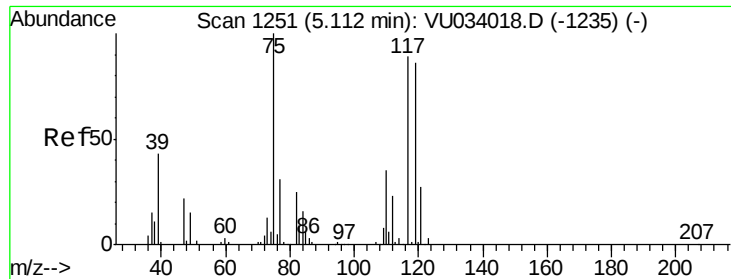
#35
 Dibromofluoromethane
 Concen: 48.362 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Tgt Ion:113 Resp: 225006
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.7 122.5
 192 22.1 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

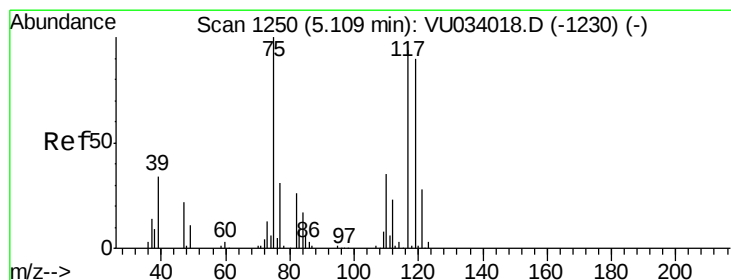
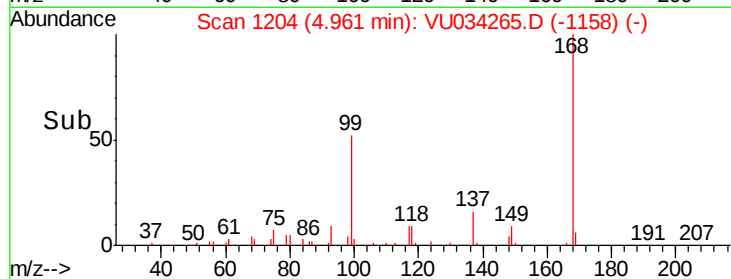
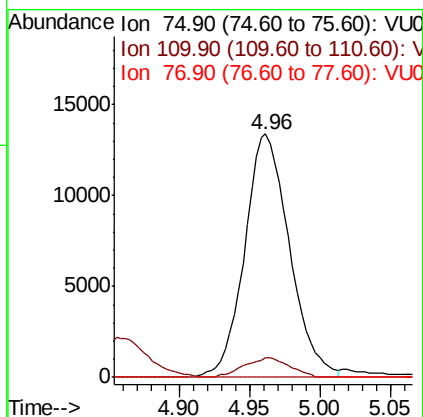
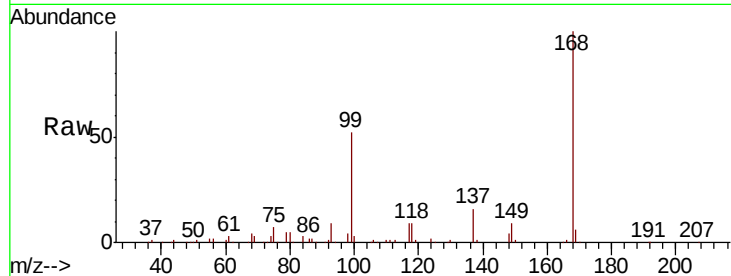




#36
 1,1-Dichloropropene
 Concen: 4.692 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

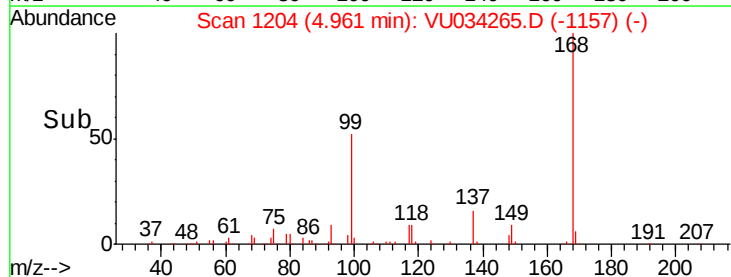
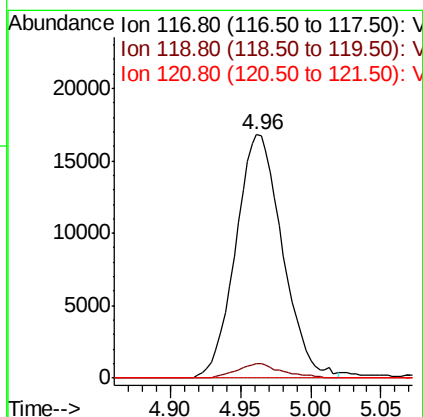
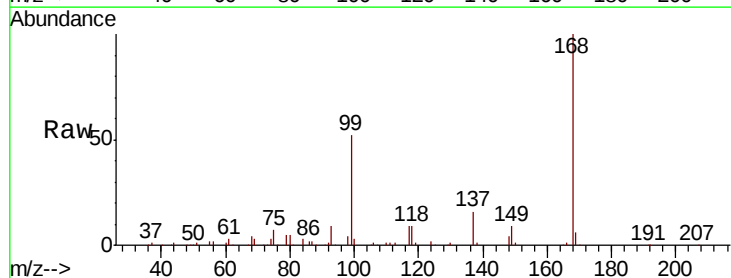
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(2.5)

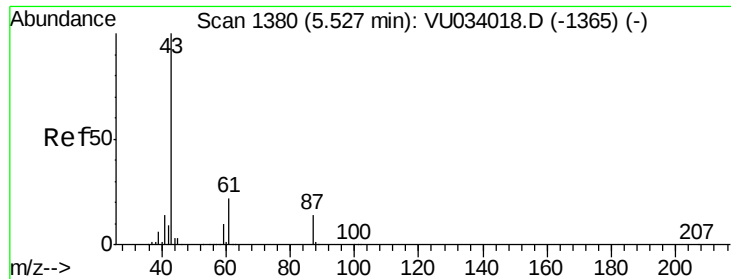
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.339 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.0	115.4#
121	0.0	23.9	35.9#

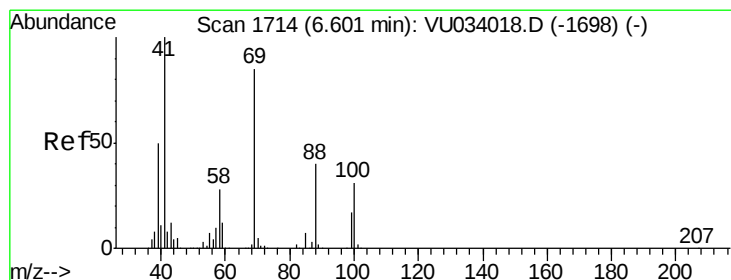
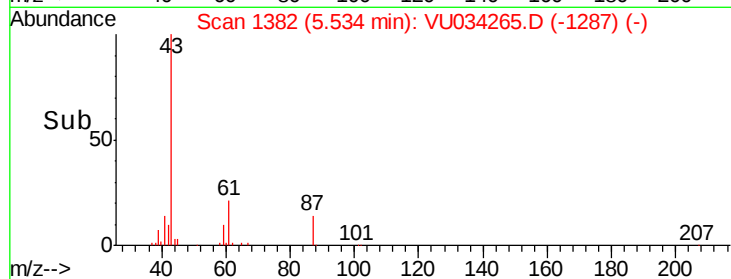
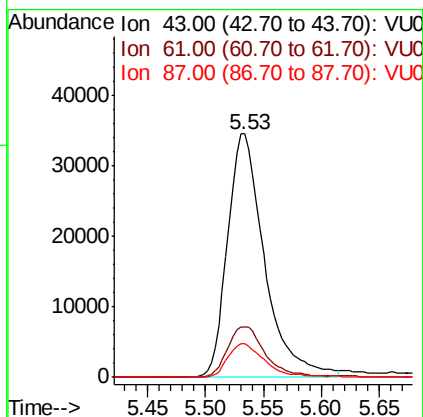
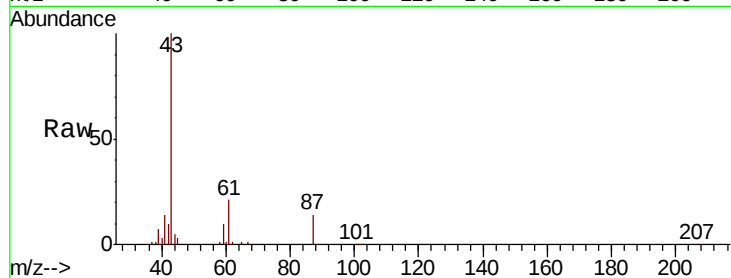




#43
Isopropyl Acetate
Concen: 7.068 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

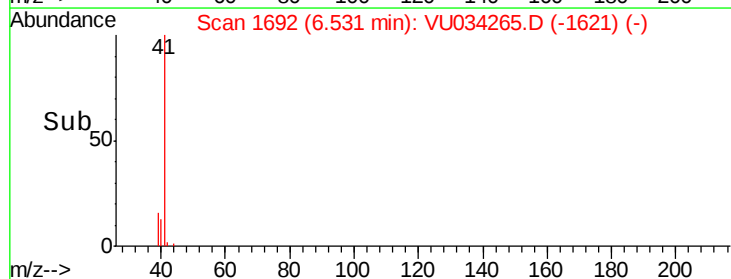
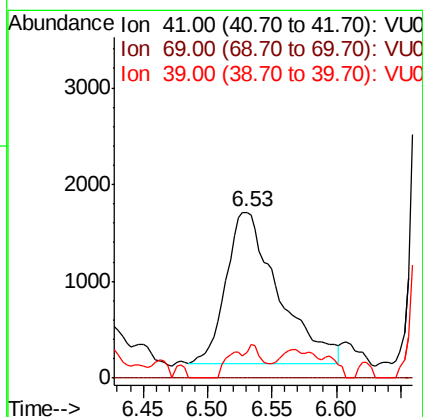
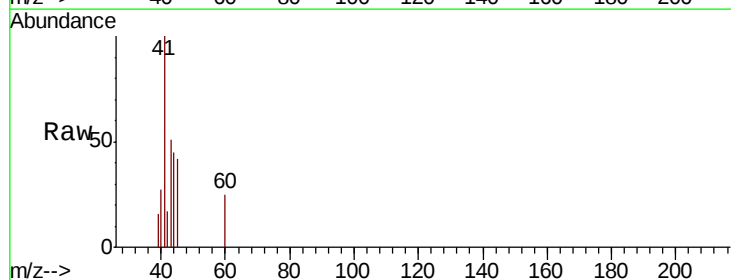
Instrument :
MSVOA_U
ClientSampleId :
T12-1-(2.5)

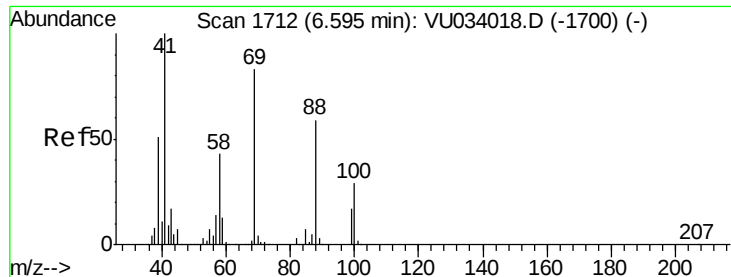
Tgt Ion: 43 Resp: 76396
Ion Ratio Lower Upper
43 100
61 21.6 17.2 25.8
87 13.8 10.8 16.2



#48
Methyl methacrylate
Concen: 0.850 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

Tgt Ion: 41 Resp: 4432
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#

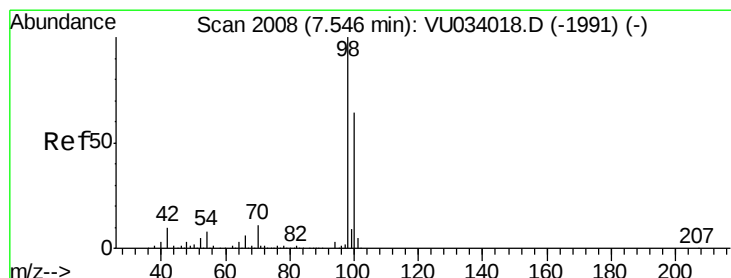
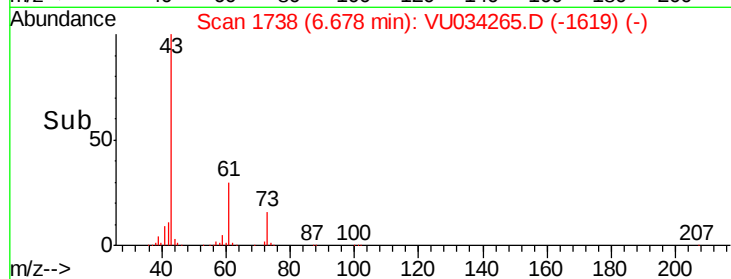
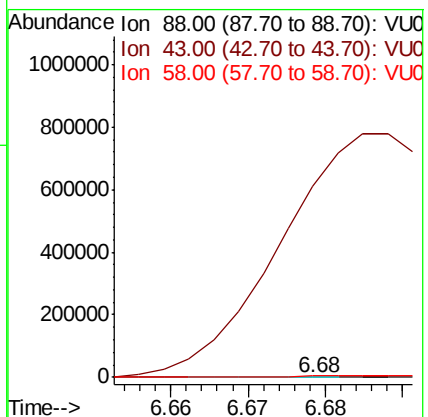
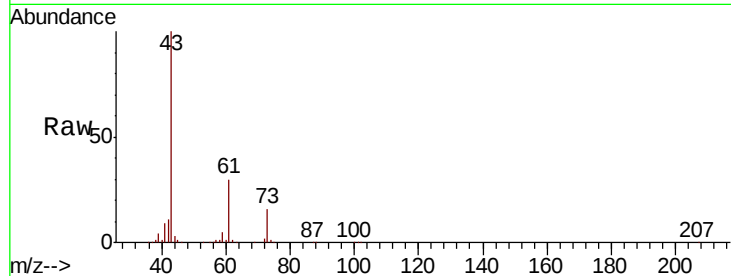




#49
 1,4-Dioxane
 Concen: 0.505 ug/l
 RT: 6.68 min Scan# 1738
 Delta R.T. 0.08 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

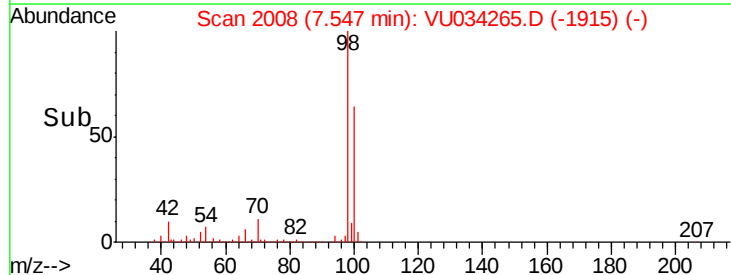
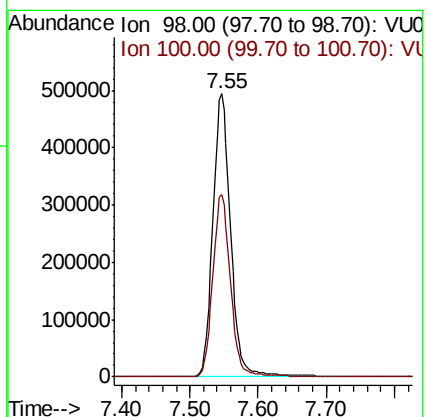
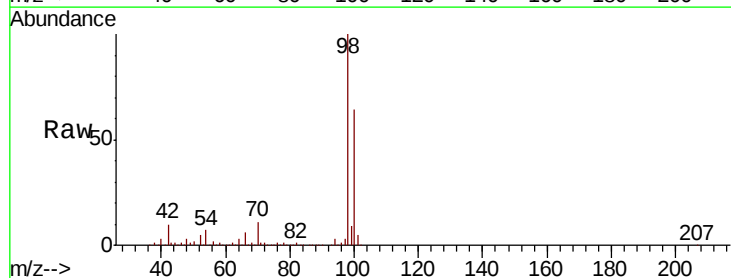
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(2.5)

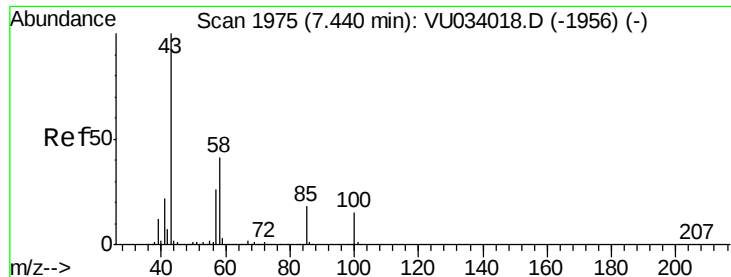
Tgt Ion: 88 Resp: 66
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.8 37.2#
 58 0.0 59.3 88.9#



#50
 Toluene-d8
 Concen: 51.467 ug/l
 RT: 7.55 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Tgt Ion: 98 Resp: 896591
 Ion Ratio Lower Upper
 98 100
 100 64.2 50.3 75.5

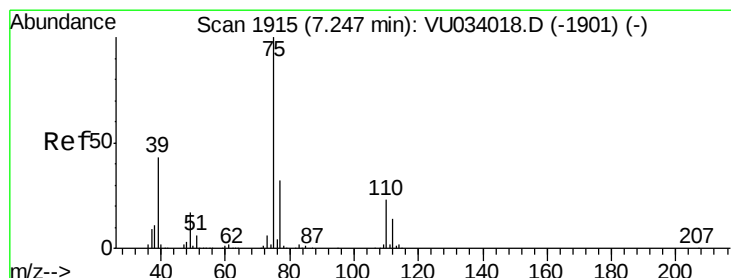
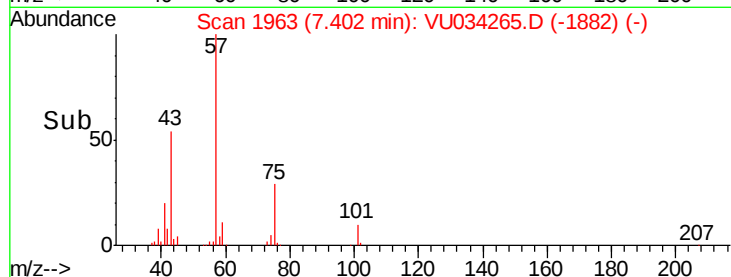
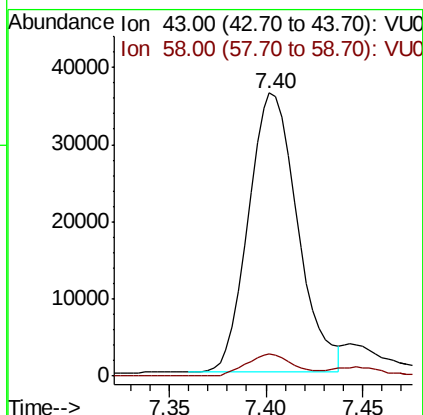
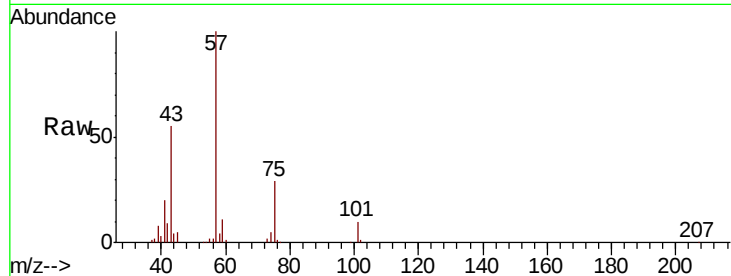




#51
 4-Methyl-2-Pentanone
 Concen: 8.589 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

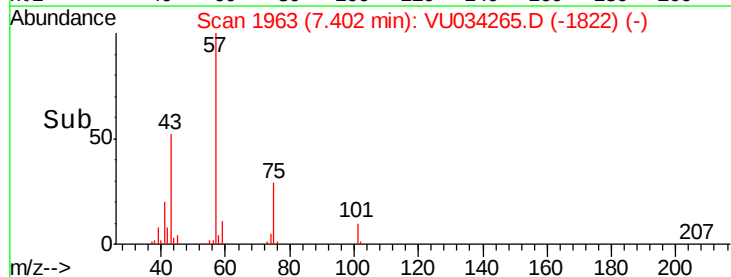
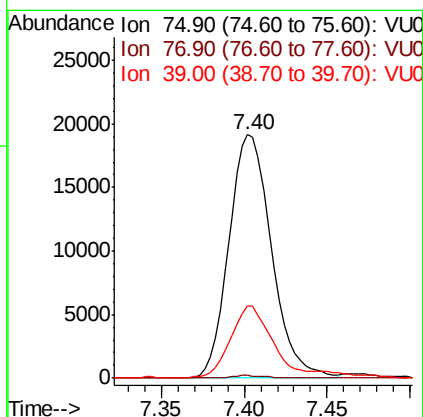
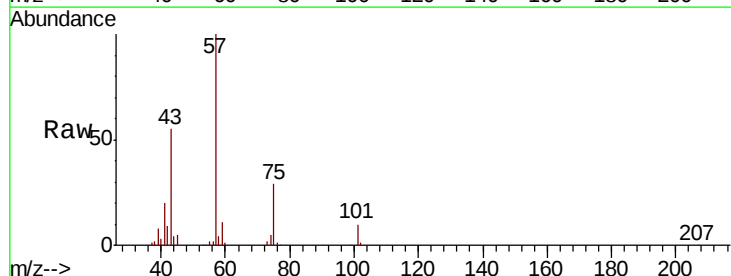
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(2.5)

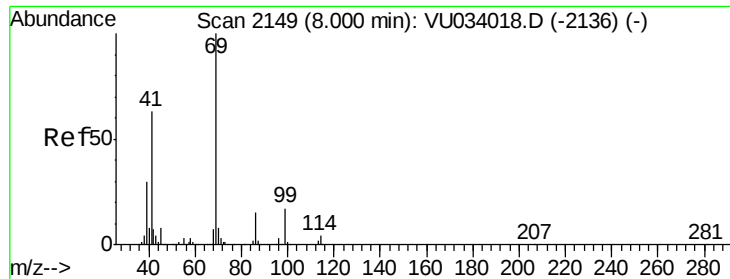
Tgt Ion: 43 Resp: 64118
 Ion Ratio Lower Upper
 43 100
 58 7.7 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.249 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Tgt Ion: 75 Resp: 34309
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.2 37.8#
 39 29.6 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.998 ug/l

RT: 7.94 min Scan# 2130

Delta R.T. -0.06 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(2.5)

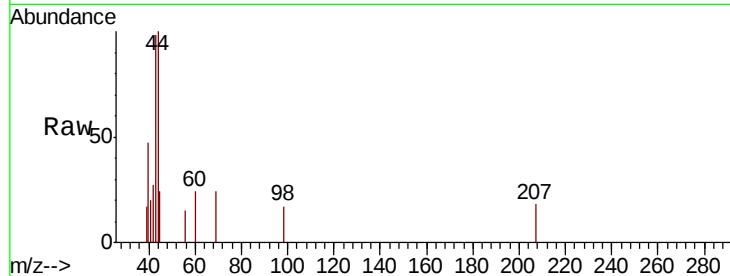
Tgt Ion: 69 Resp: 220

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

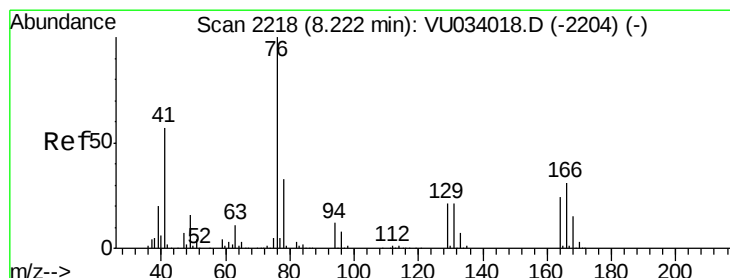
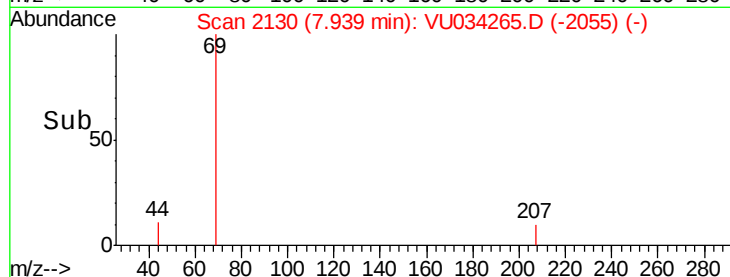
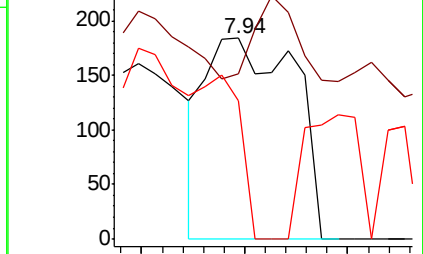
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034265.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU034265.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU034265.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.700 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034265.D

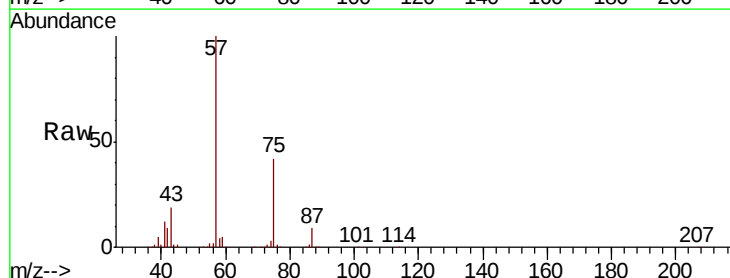
Acq: 04 Sep 2019 18:04

Tgt Ion: 76 Resp: 5943

Ion Ratio Lower Upper

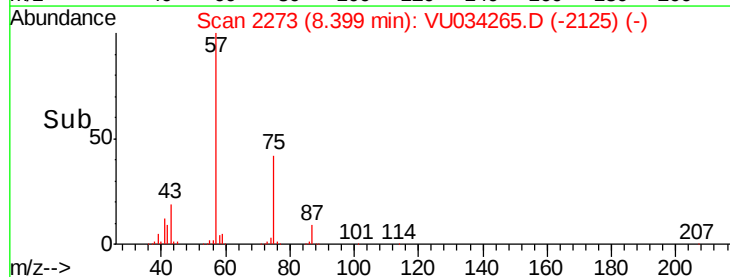
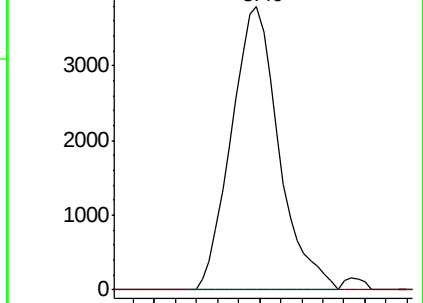
76 100

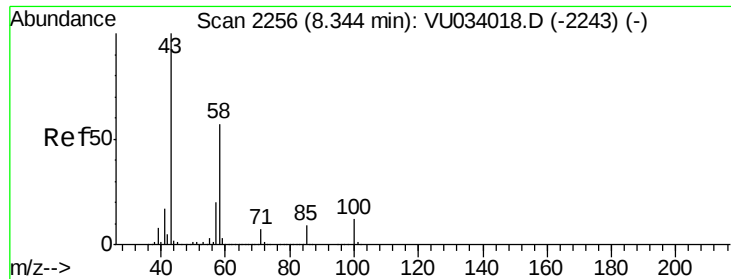
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034265.D (-2215) (-)

Ion 77.90 (77.60 to 78.60): VU034265.D (-2215) (-)

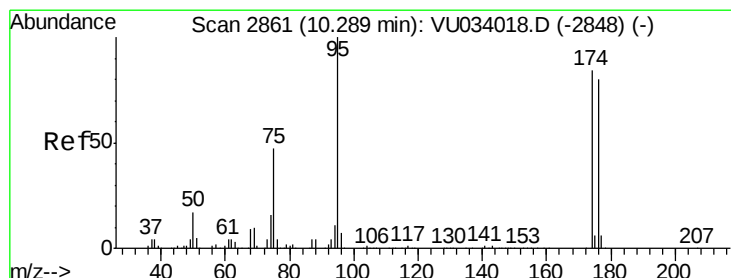
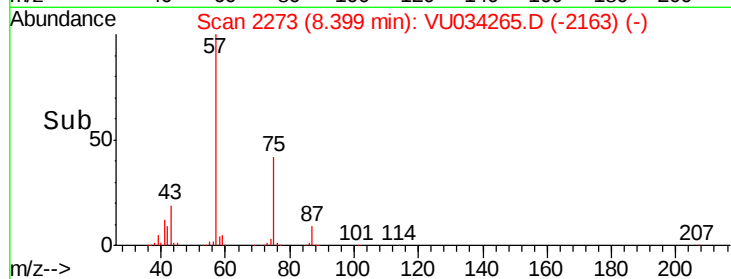
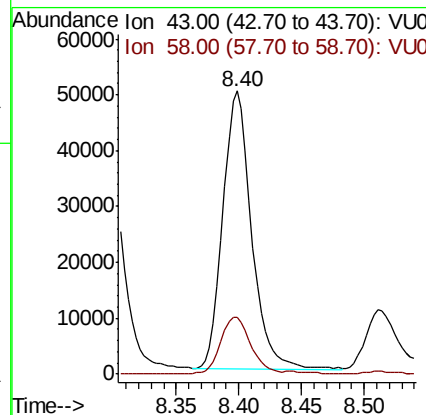
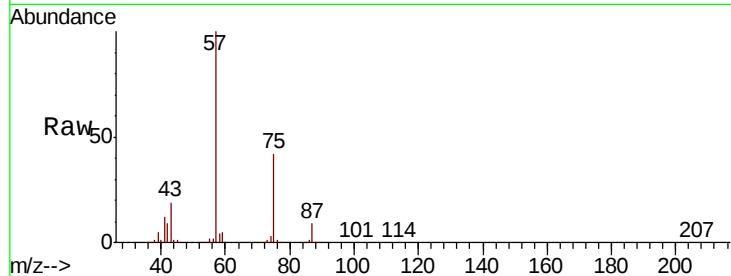




#59
 2-Hexanone
 Concen: 14.257 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

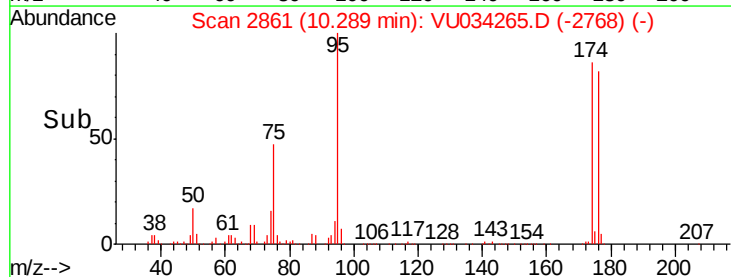
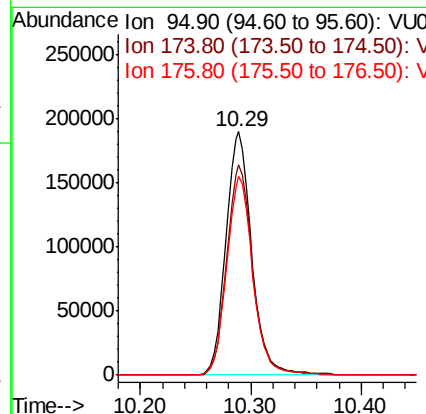
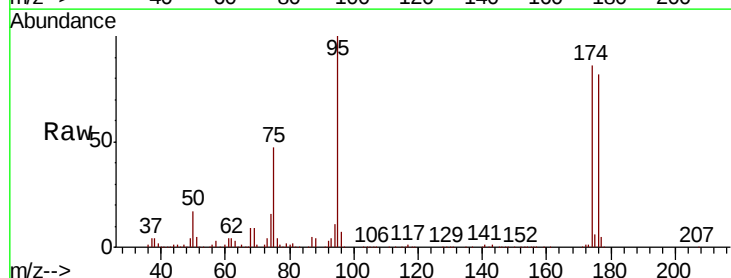
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-1-(2.5)

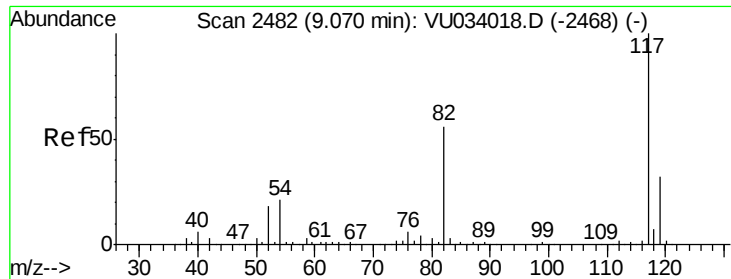
Tgt Ion: 43 Resp: 80342
 Ion Ratio Lower Upper
 43 100
 58 21.3 28.4 85.3#



#62
 4-Bromofluorobenzene
 Concen: 45.434 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034265.D
 Acq: 04 Sep 2019 18:04

Tgt Ion: 95 Resp: 307880
 Ion Ratio Lower Upper
 95 100
 174 87.4 0.0 168.8
 176 82.9 0.0 161.8

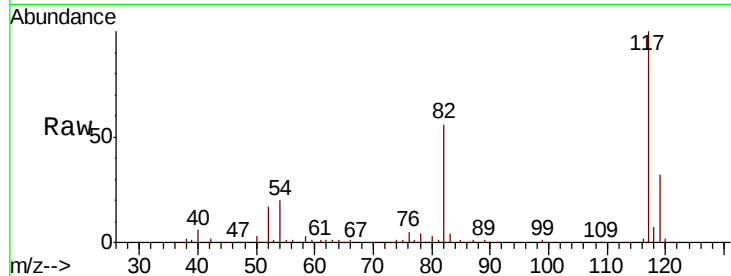




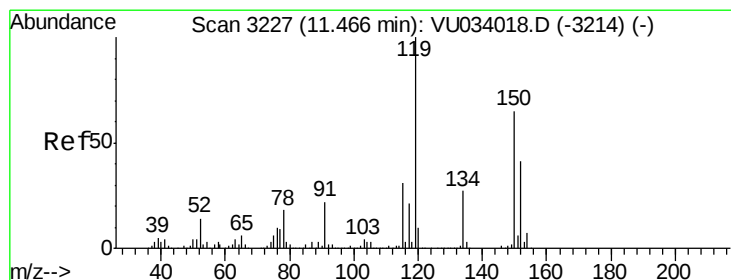
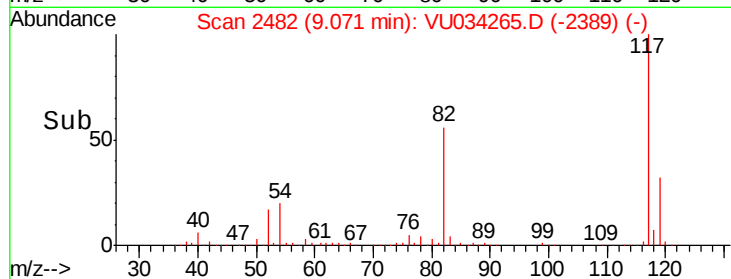
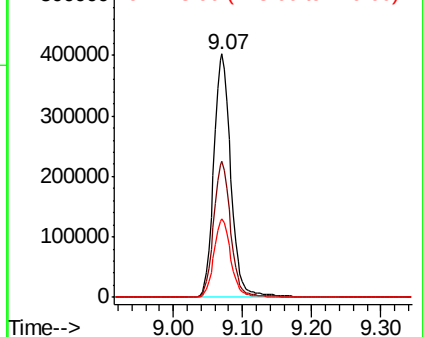
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

Instrument :
MSVOA_U
ClientSampleId :
T12-1-(2.5)

Tgt Ion:117 Resp: 687139
Ion Ratio Lower Upper
117 100
82 55.9 45.1 67.7
119 32.5 25.4 38.0

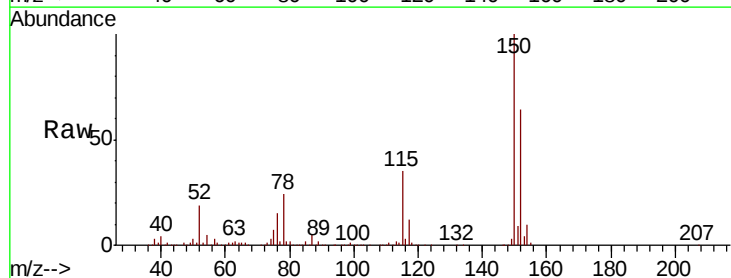


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

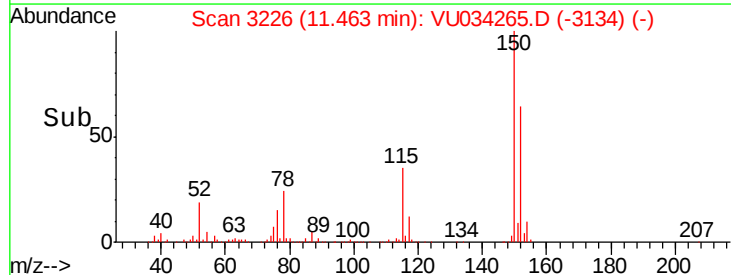
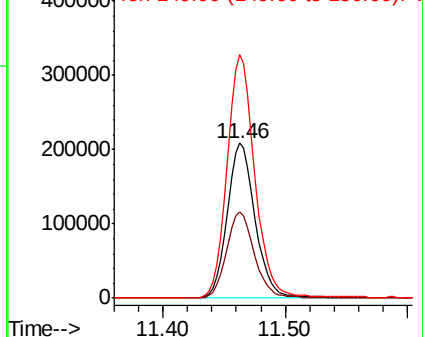


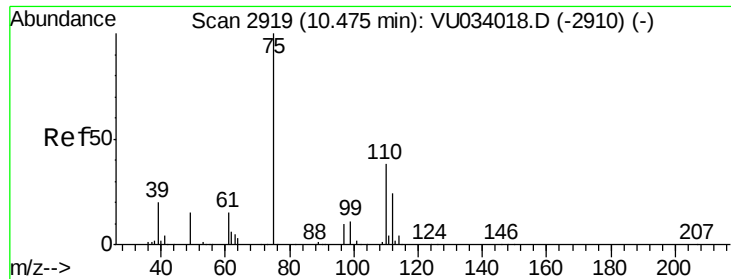
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034265.D
Acq: 04 Sep 2019 18:04

Tgt Ion:152 Resp: 335188
Ion Ratio Lower Upper
152 100
115 55.7 41.1 123.3
150 156.7 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: 18.943 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

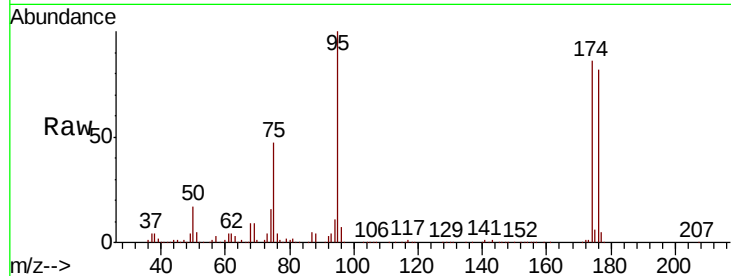
T12-1-(2.5)

Tgt Ion: 75 Resp: 143106

Ion Ratio Lower Upper

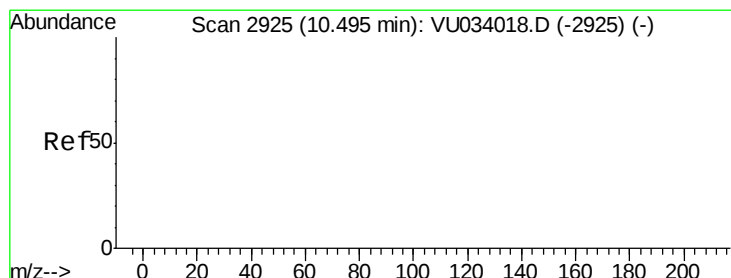
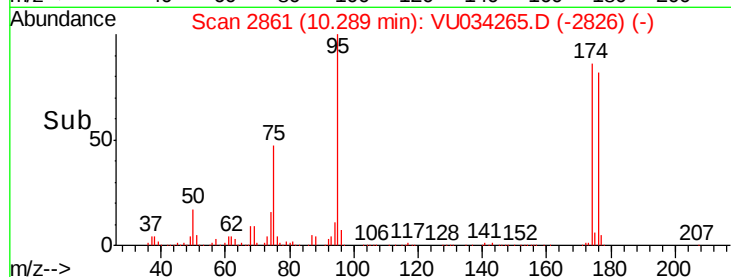
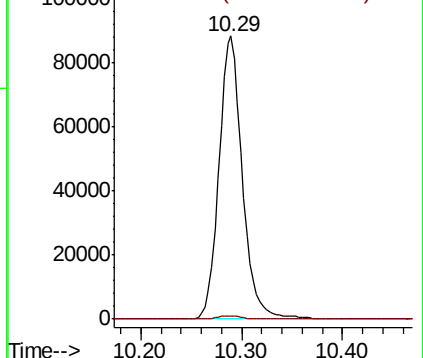
75 100

77 1.3 20.1 60.2#



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: 63.786 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

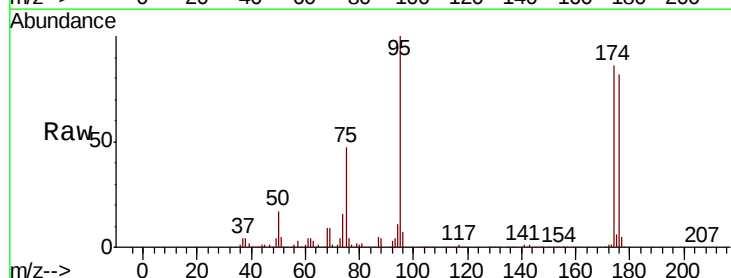
Tgt Ion: 75 Resp: 143106

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

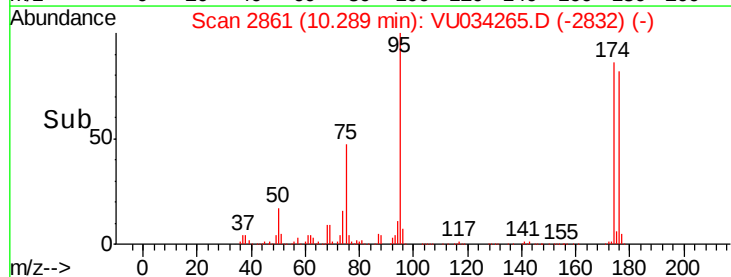
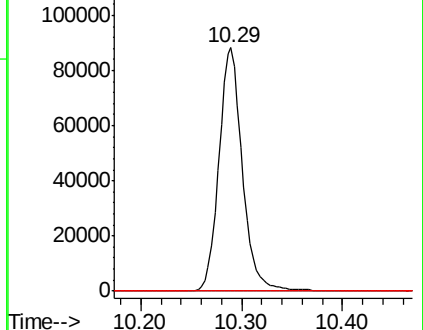
89 0.0 0.0 0.0#

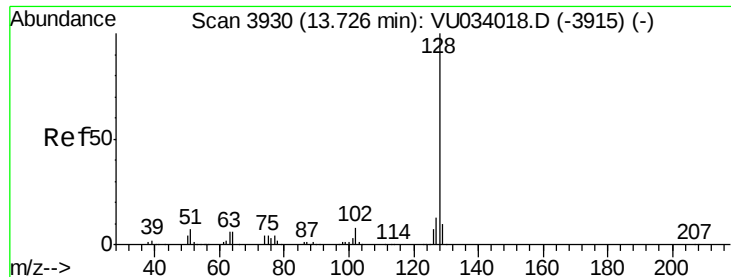


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.81 min Scan# 3957

Delta R.T. 0.09 min

Lab File: VU034265.D

Acq: 04 Sep 2019 18:04

Instrument :

MSVOA_U

ClientSampleId :

T12-1-(2.5)

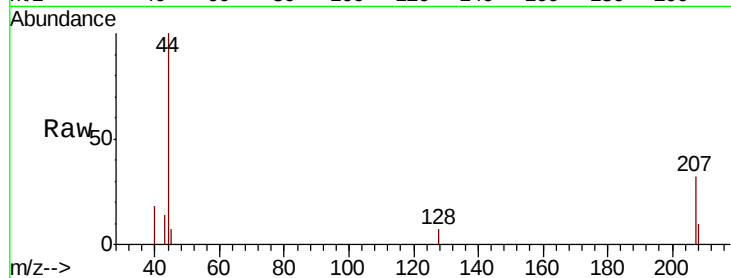
Tgt Ion:128 Resp: 41

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

