

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034259.D
 Acq On : 04 Sep 2019 15:44
 Operator : JC/SP
 Sample : K4547-29
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-F-(2.5)

Quant Time: Sep 05 03:39:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	420166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	668918	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	671440	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	329852	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	262013	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
35) Dibromofluoromethane	4.86	113	222860	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	7.55	98	874959	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	10.29	95	302326	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

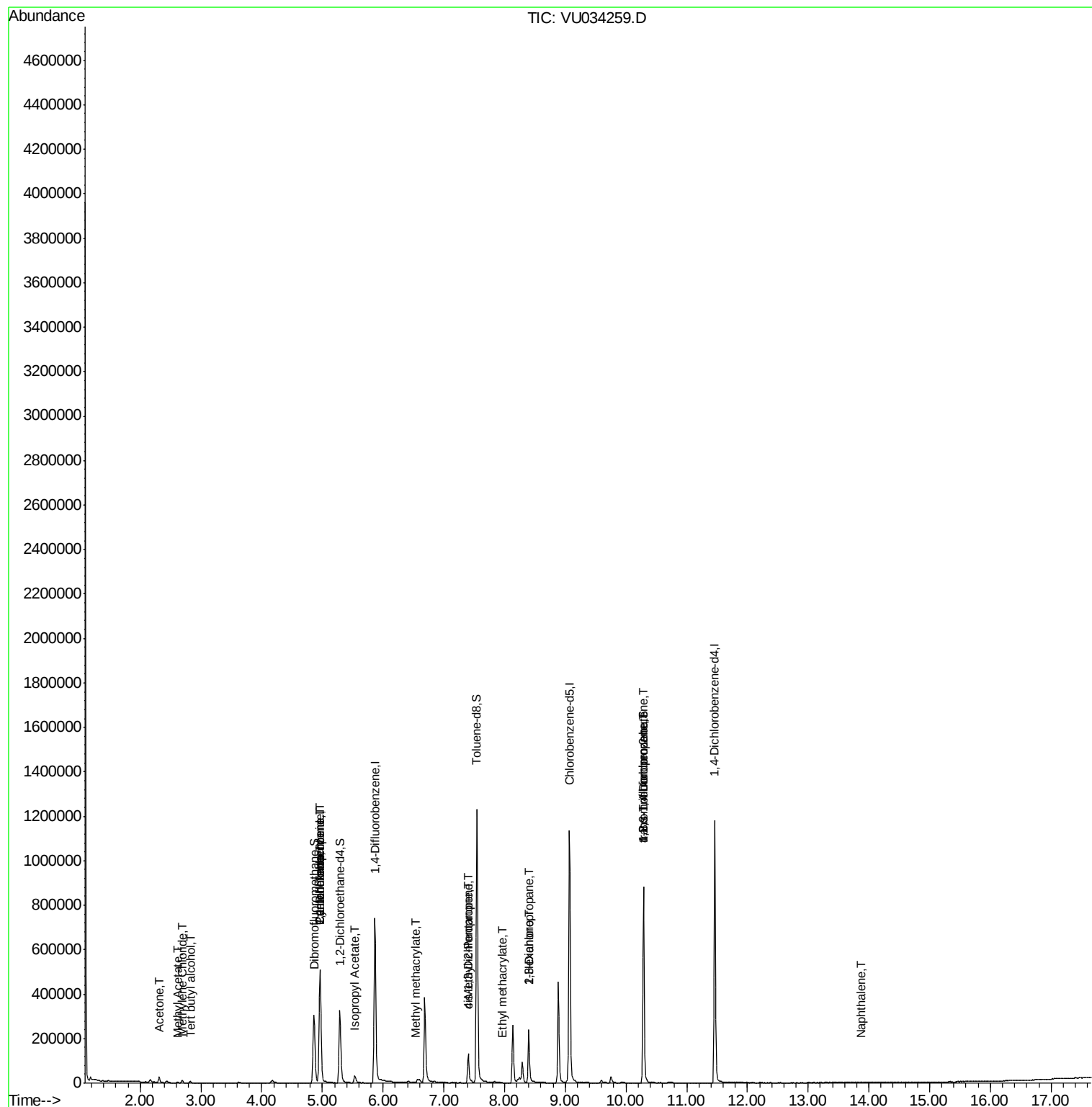
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	372	Below Cal		97
5) Bromomethane	1.59	94	21	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	3939	3.173	ug/l #	73
16) Acetone	2.31	43	26824	9.765	ug/l	96
18) Methyl Acetate	2.61	43	2862	0.403	ug/l	92
20) Methylene Chloride	2.69	84	5269	1.013	ug/l	87
31) Cyclohexane	4.96	56	7190	0.894	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29189	4.613	ug/l #	44
38) Carbon Tetrachloride	4.96	117	37643	6.164	ug/l #	16
43) Isopropyl Acetate	5.53	43	40656	3.772	ug/l	98
48) Methyl methacrylate	6.53	41	2971	0.571	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	45238	6.077	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	25353	3.149	ug/l #	63
56) Ethyl methacrylate	7.96	69	58	0.978	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	2356	0.278	ug/l #	42
59) 2-Hexanone	8.40	43	33740	6.004	ug/l #	51
76) 1,2,3-Trichloropropane	10.29	75	144379	19.421	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	144379	65.394	ug/l #	100
95) Naphthalene	13.86	128	19	1.791	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# 1205

Delta R.T. 0.01 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

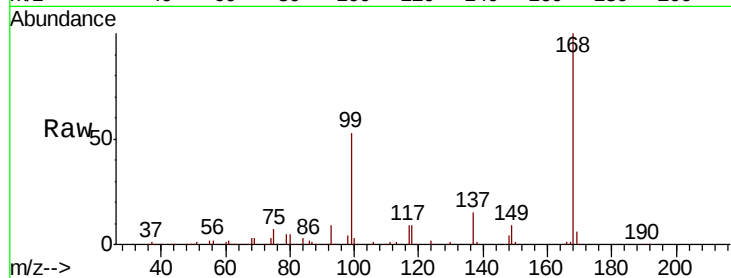
T3-S-F-(2.5)

Tgt Ion:168 Resp: 420166

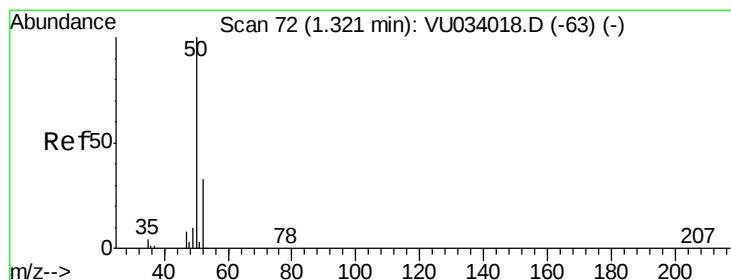
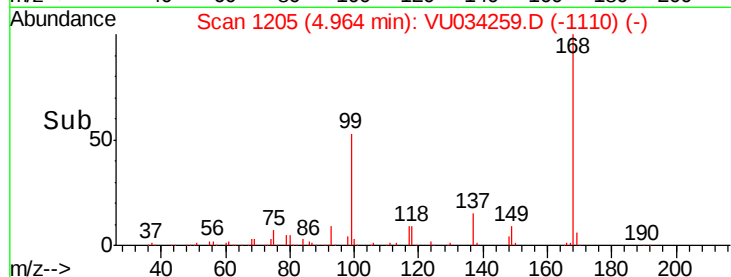
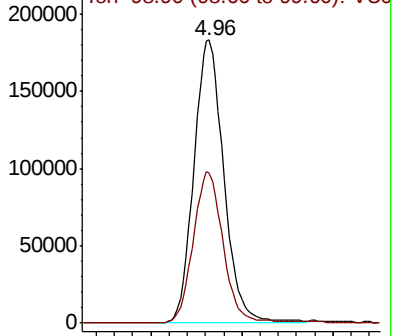
Ion Ratio Lower Upper

168 100

99 52.9 42.3 63.5



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



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034259.D

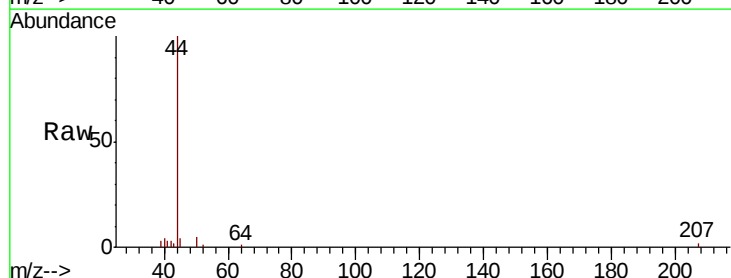
Acq: 04 Sep 2019 15:44

Tgt Ion: 50 Resp: 372

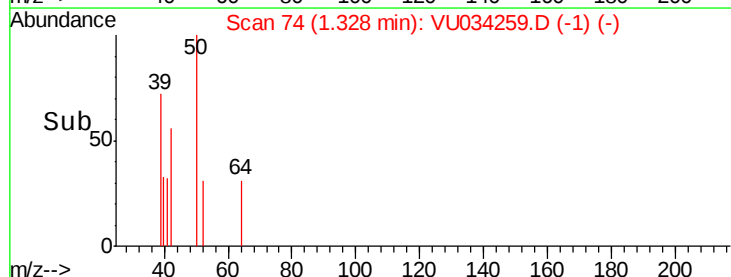
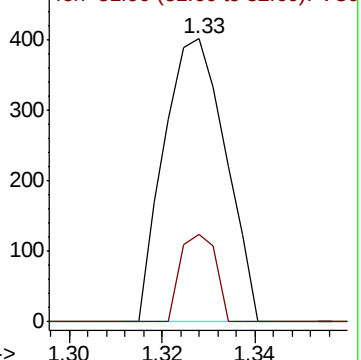
Ion Ratio Lower Upper

50 100

52 31.1 26.2 39.4



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





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 157

Delta R.T. -0.00 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

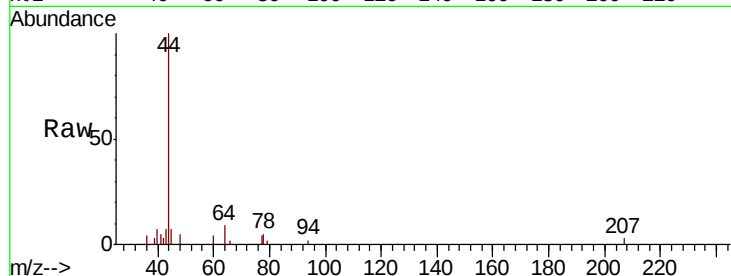
T3-S-F-(2.5)

Tgt Ion: 94 Resp: 21

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

1.59

100

80

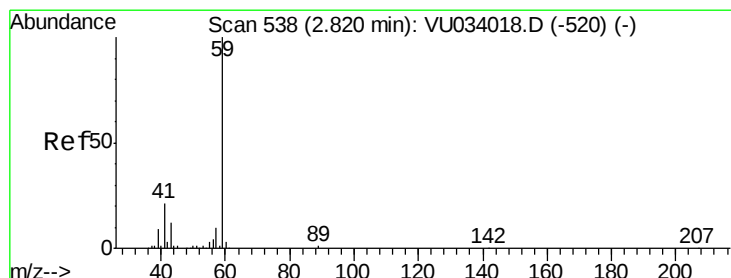
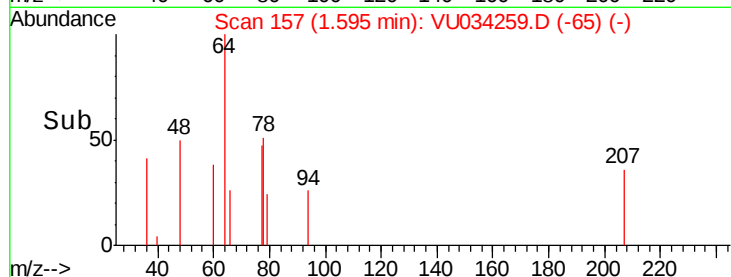
60

40

20

0

Time-->



#11

Tert butyl alcohol

Concen: 3.173 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034259.D

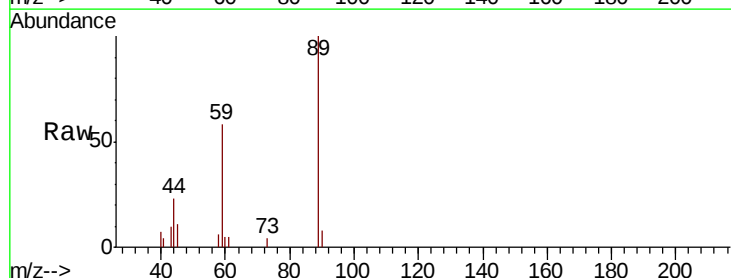
Acq: 04 Sep 2019 15:44

Tgt Ion: 59 Resp: 3939

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

2.83

2000

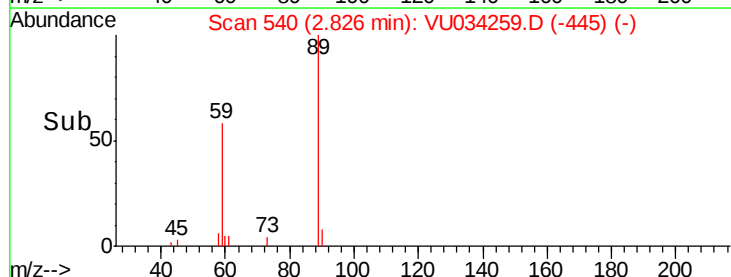
1500

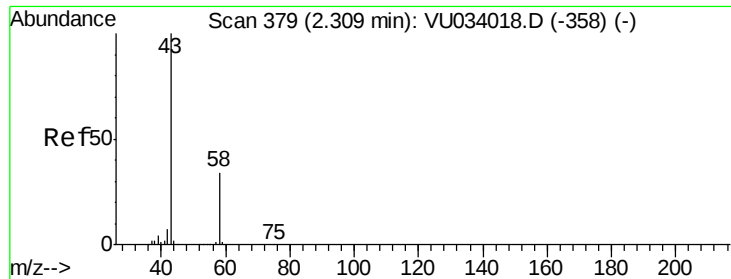
1000

500

0

Time-->





#16

Acetone

Concen: 9.765 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

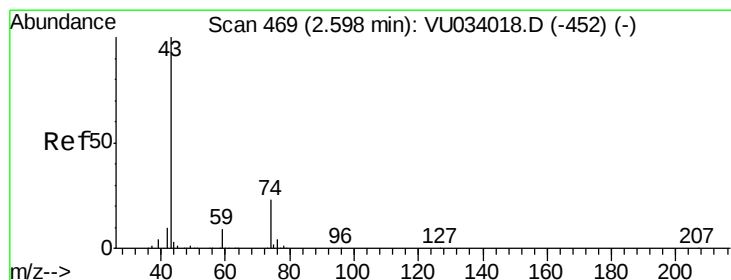
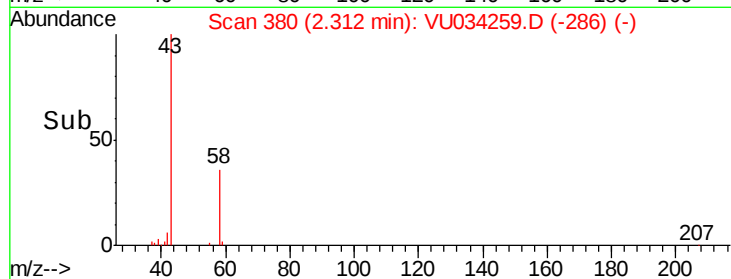
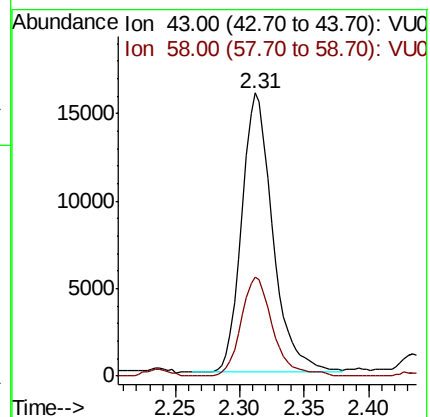
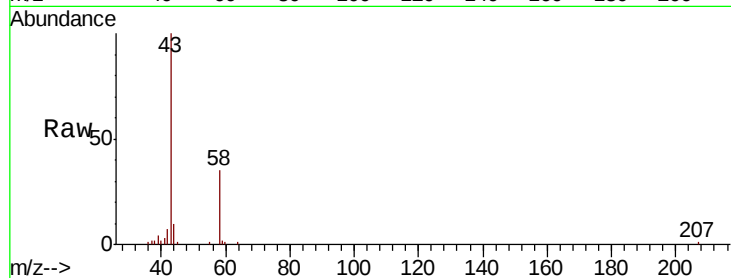
T3-S-F-(2.5)

Tgt Ion: 43 Resp: 26824

Ion Ratio Lower Upper

43 100

58 35.7 26.8 40.2



#18

Methyl Acetate

Concen: 0.403 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034259.D

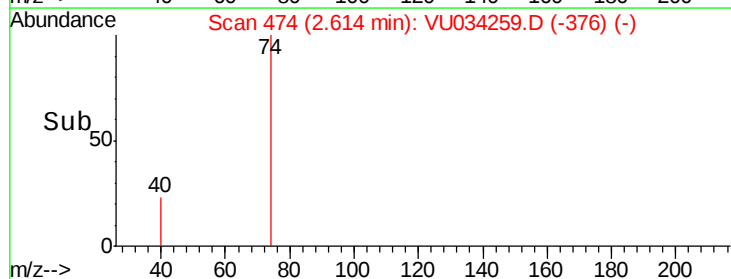
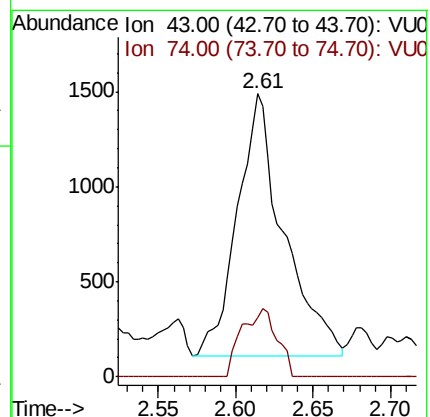
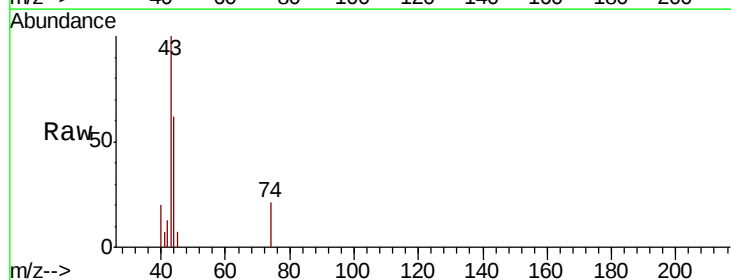
Acq: 04 Sep 2019 15:44

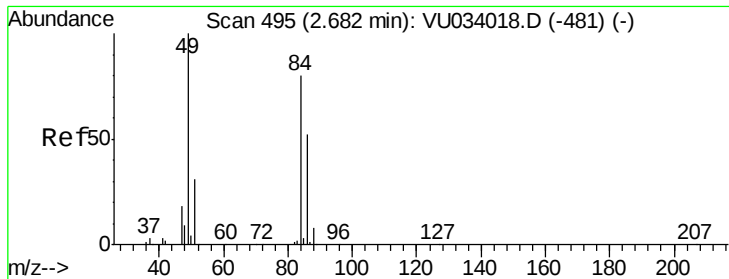
Tgt Ion: 43 Resp: 2862

Ion Ratio Lower Upper

43 100

74 19.8 19.2 28.8

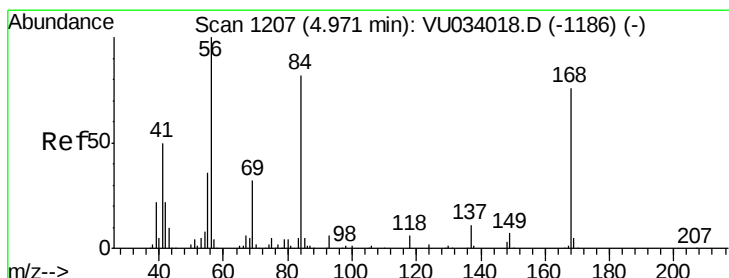
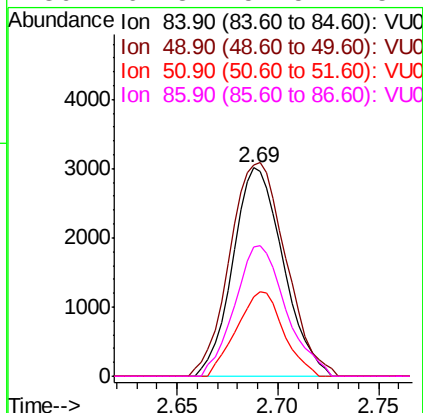
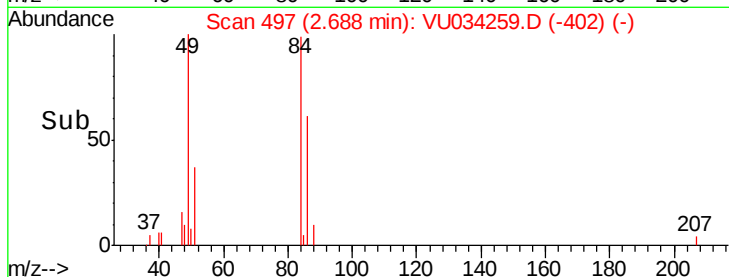
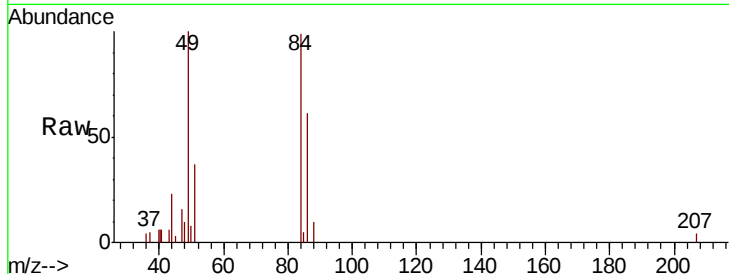




#20
Methylene Chloride
Concen: 1.013 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

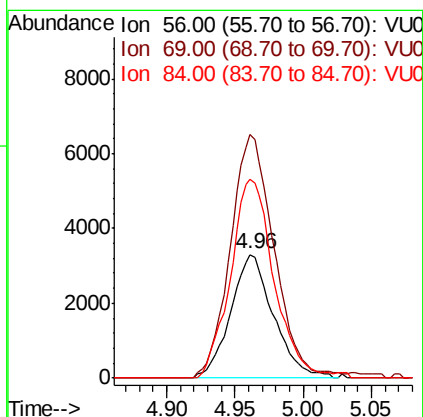
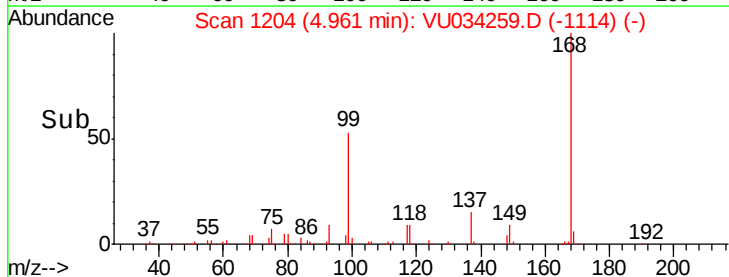
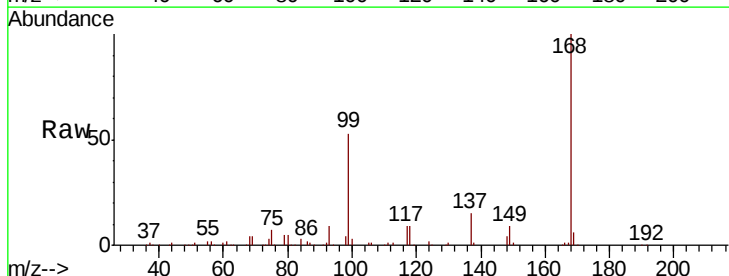
Instrument :
MSVOA_U
ClientSampleId :
T3-S-F-(2.5)

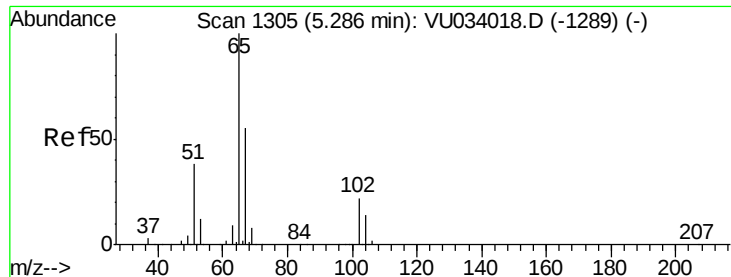
Tgt Ion: 84 Resp: 5269
Ion Ratio Lower Upper
84 100
49 101.5 100.2 150.4
51 38.0 30.8 46.2
86 61.8 52.5 78.7



#31
Cyclohexane
Concen: 0.894 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

Tgt Ion: 56 Resp: 7190
Ion Ratio Lower Upper
56 100
69 196.7 25.4 38.0#
84 160.7 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 48.667 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

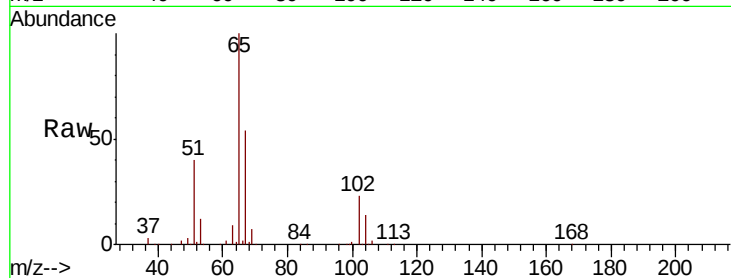
T3-S-F-(2.5)

Tgt Ion: 65 Resp: 262013

Ion Ratio Lower Upper

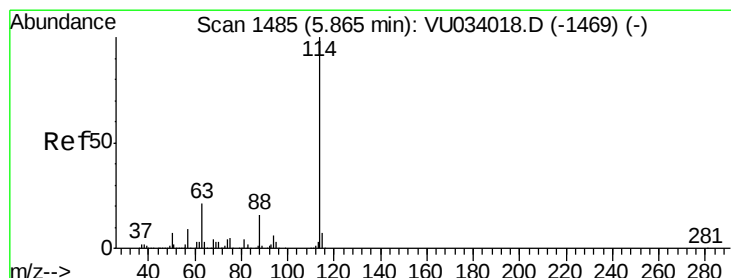
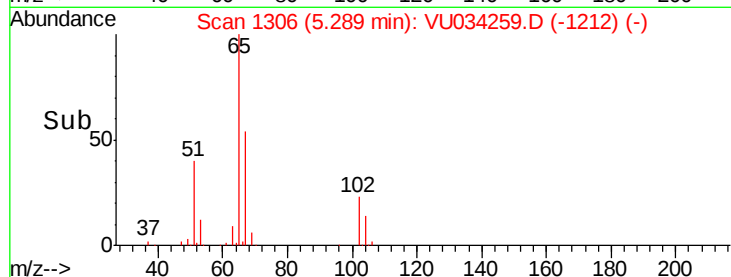
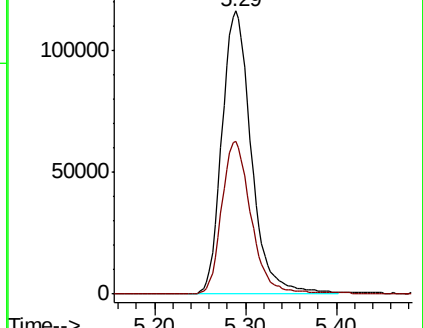
65 100

67 54.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

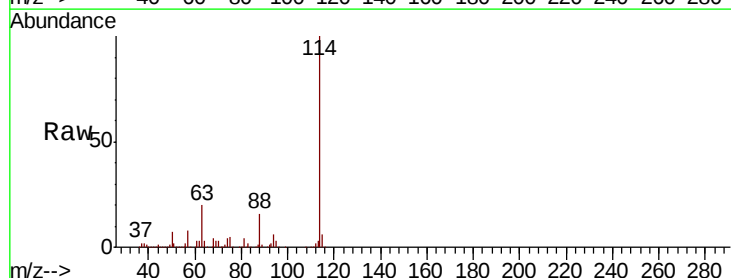
Tgt Ion: 114 Resp: 668918

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.0

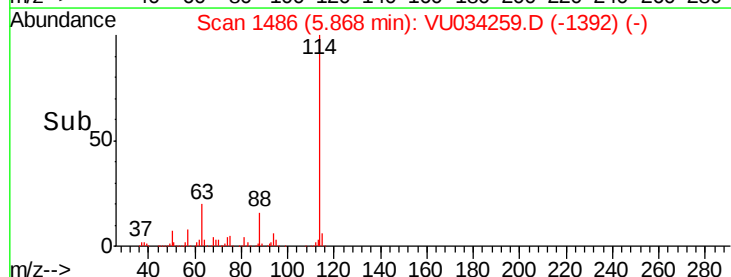
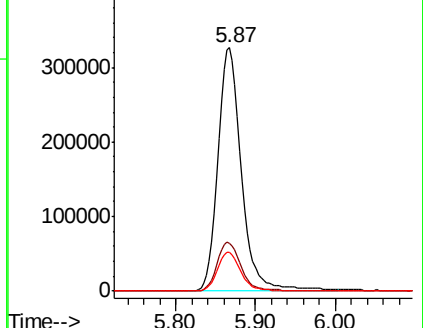
88 15.9 0.0 32.0

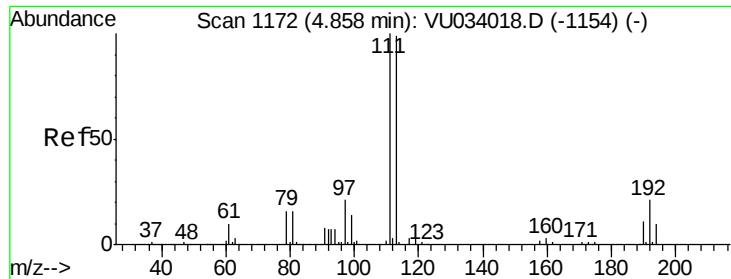


Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

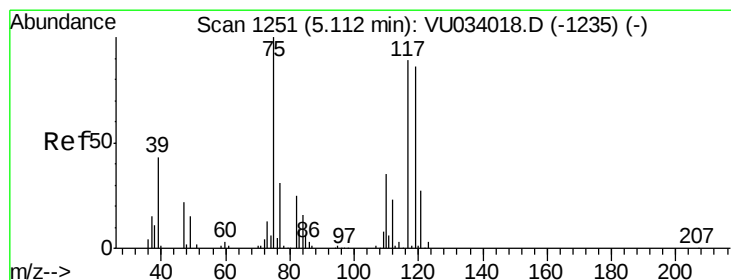
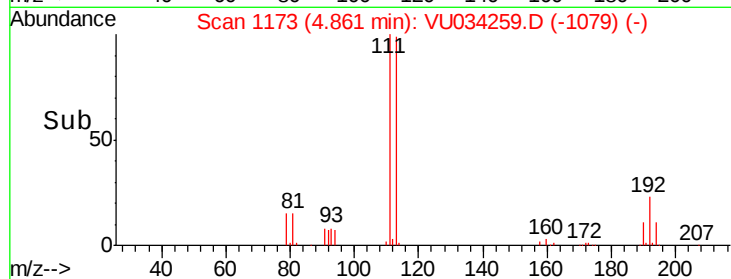
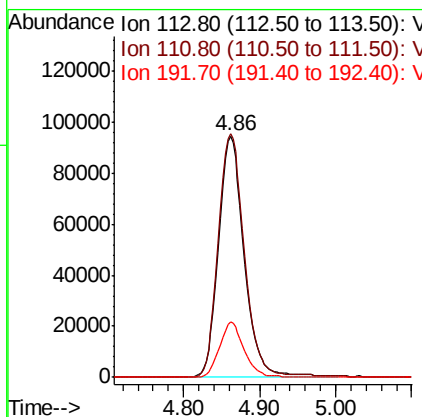
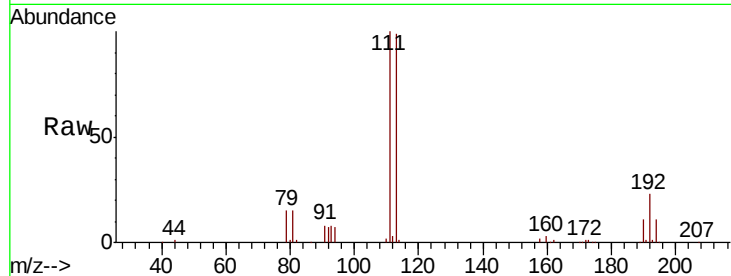




#35
 Dibromofluoromethane
 Concen: 48.035 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

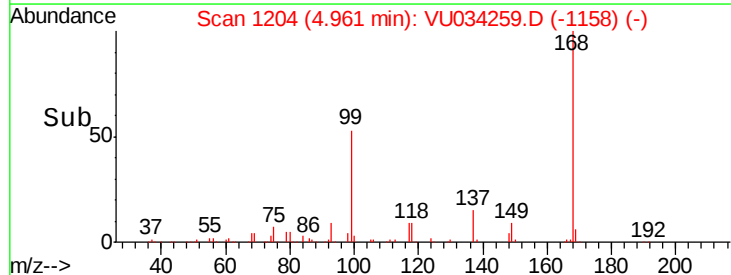
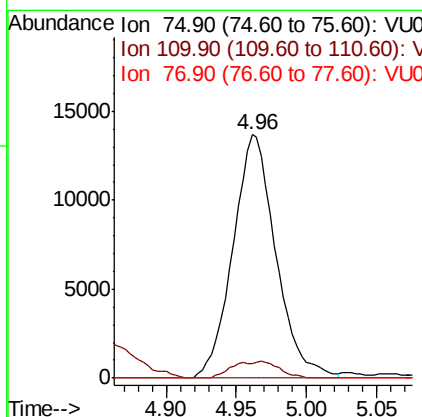
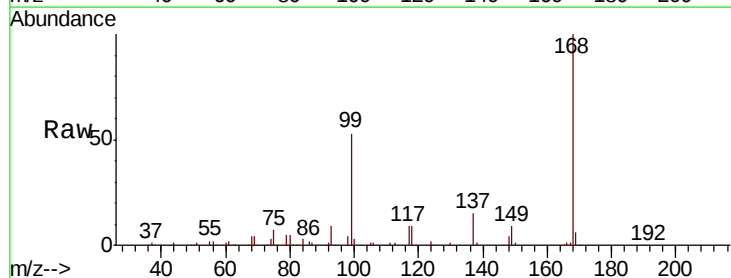
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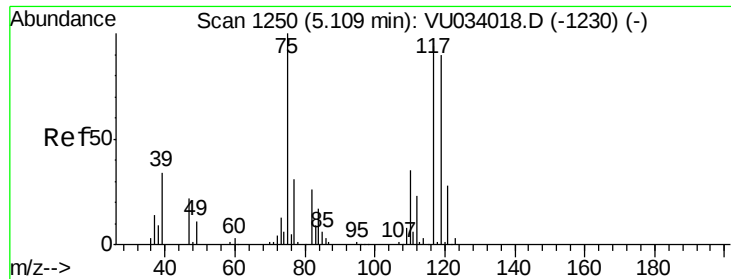
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.7	122.5
192	21.9	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.5	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.164 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

T3-S-F-(2.5)

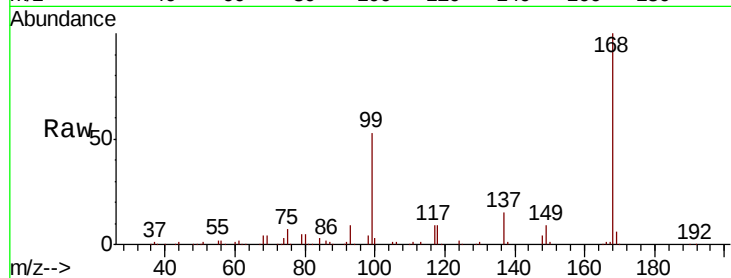
Tgt Ion:117 Resp: 37643

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

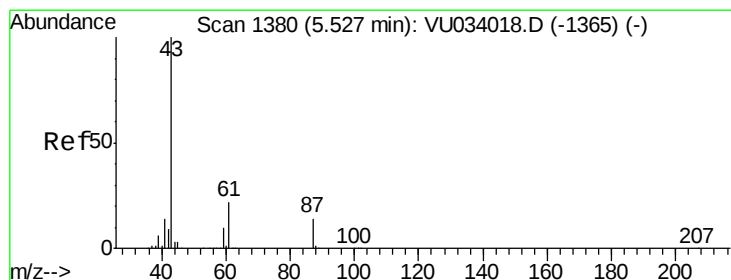
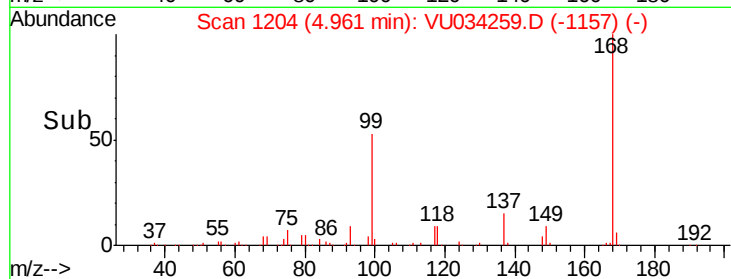
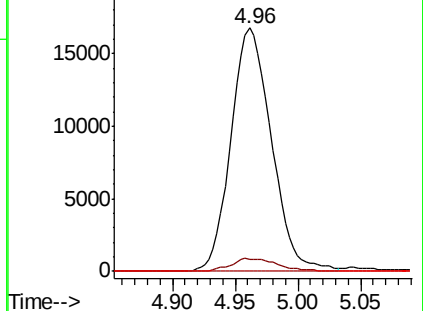
121 0.0 23.9 35.9#



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: 3.772 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

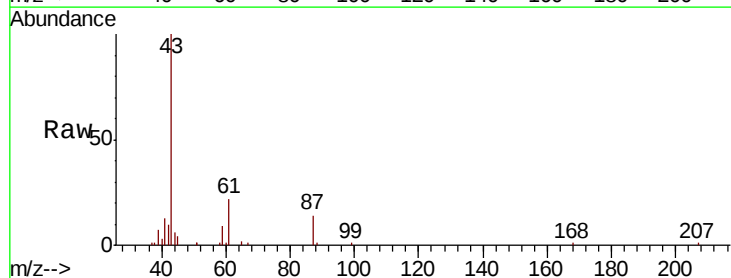
Tgt Ion: 43 Resp: 40656

Ion Ratio Lower Upper

43 100

61 22.7 17.2 25.8

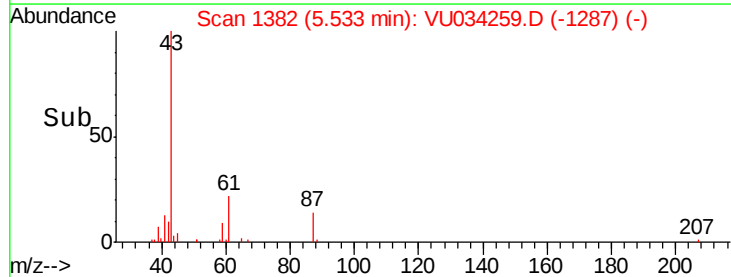
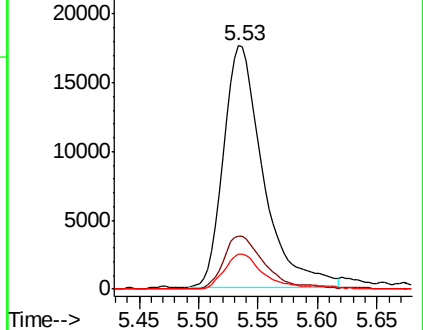
87 13.9 10.8 16.2

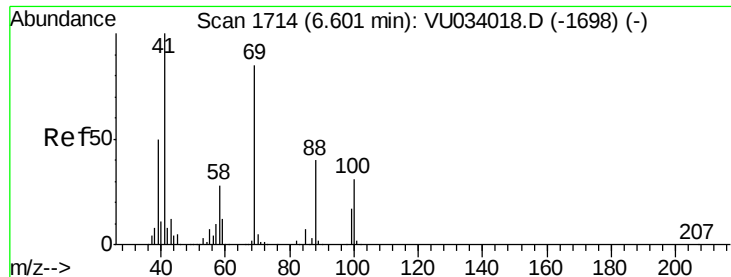


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

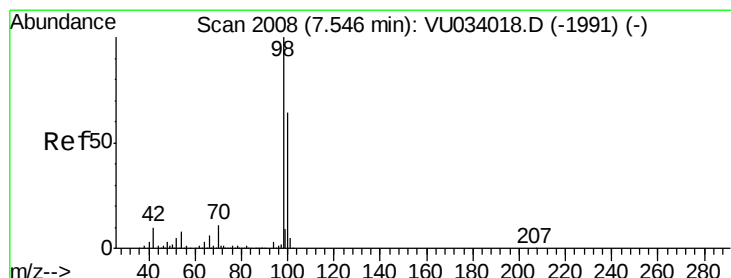
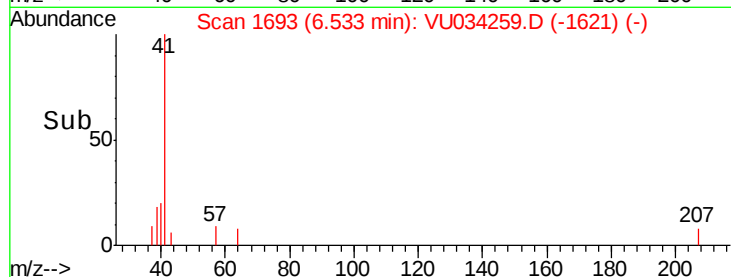
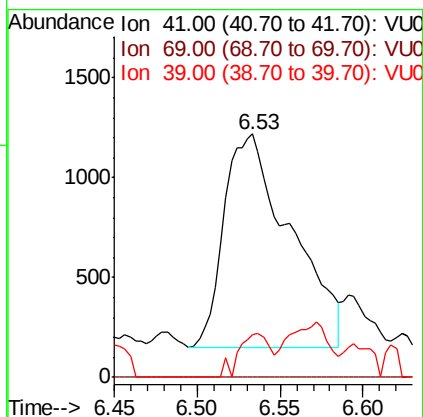
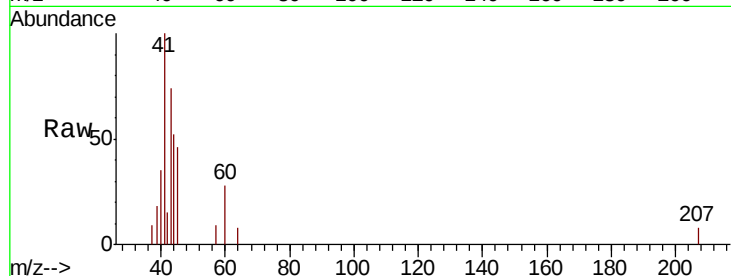




#48
Methyl methacrylate
Concen: 0.571 ug/l
RT: 6.53 min Scan# 1693
Delta R.T. -0.07 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

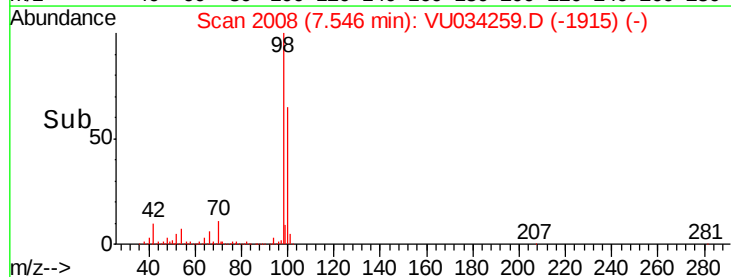
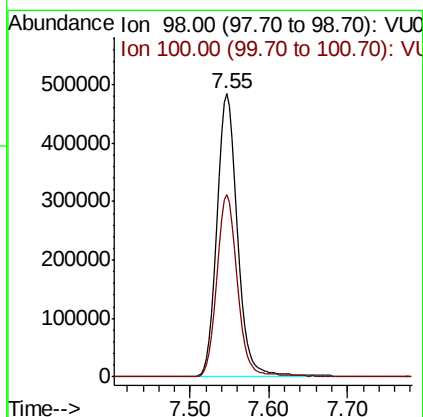
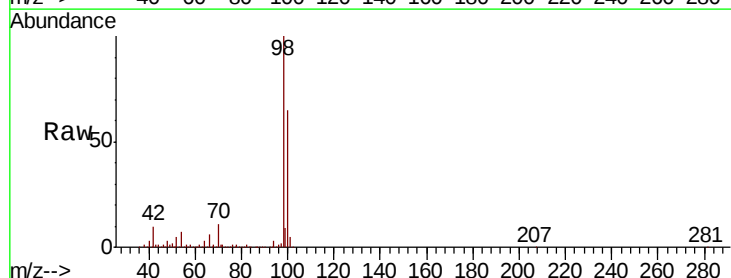
Instrument :
MSVOA_U
ClientSampleId :
T3-S-F-(2.5)

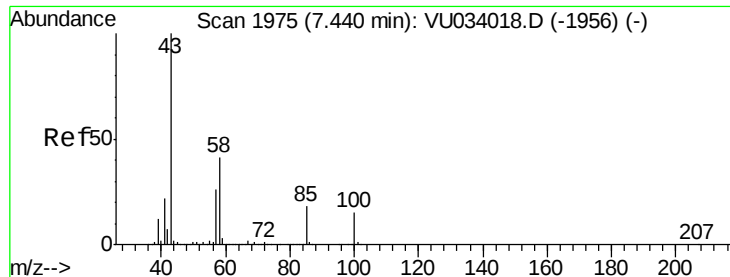
Tgt Ion: 41 Resp: 2971
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#50
Toluene-d8
Concen: 50.365 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

Tgt Ion: 98 Resp: 874959
Ion Ratio Lower Upper
98 100
100 64.3 50.3 75.5

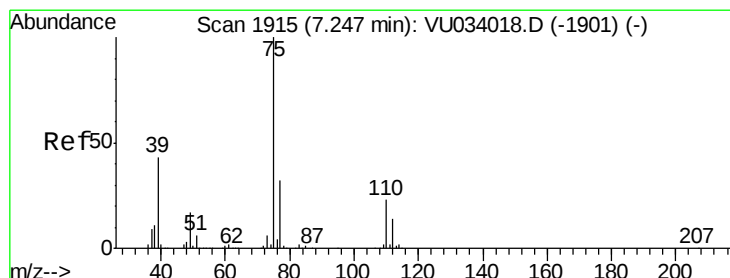
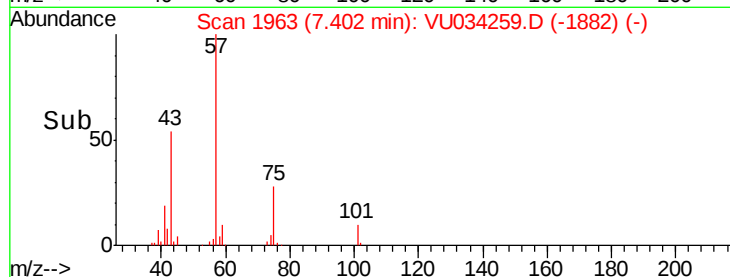
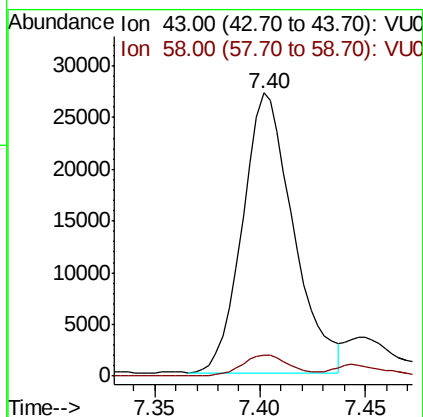
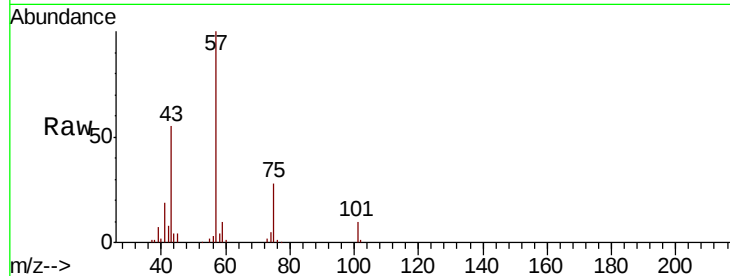




#51
 4-Methyl-2-Pentanone
 Concen: 6.077 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

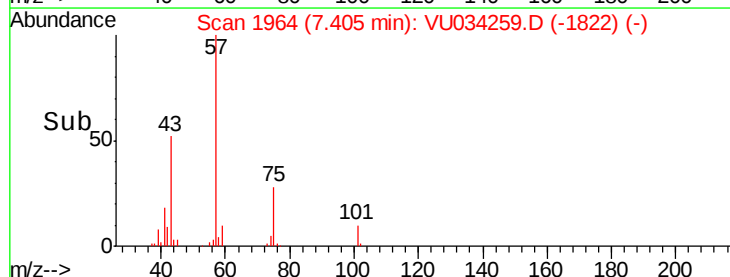
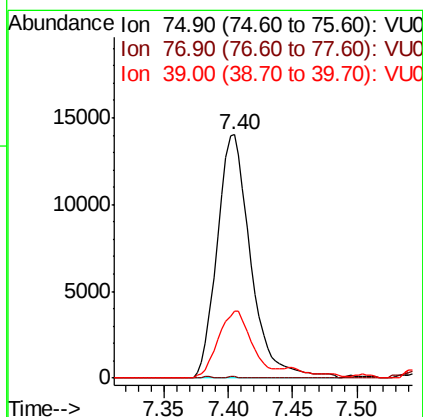
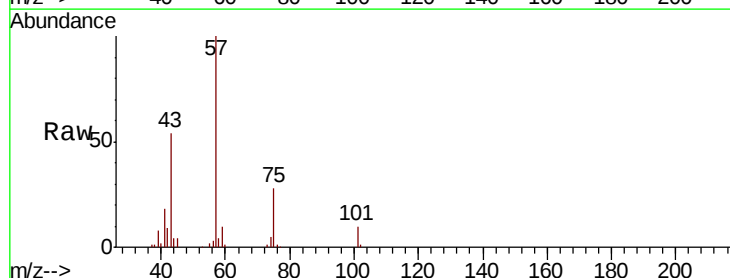
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-F-(2.5)

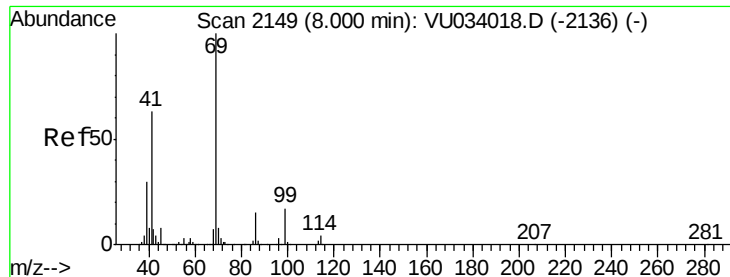
Tgt Ion: 43 Resp: 45238
 Ion Ratio Lower Upper
 43 100
 58 7.2 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 3.149 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

Tgt Ion: 75 Resp: 25353
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 27.7 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.978 ug/l

RT: 7.96 min Scan# 2136

Delta R.T. -0.04 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

T3-S-F-(2.5)

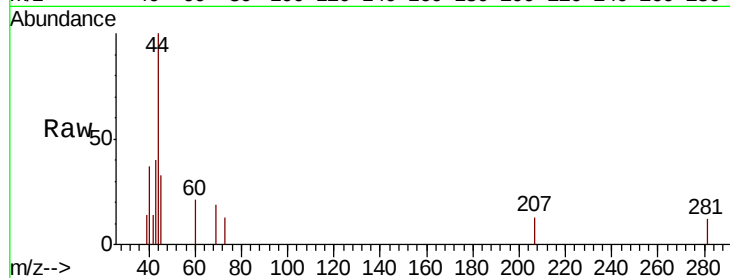
Tgt Ion: 69 Resp: 58

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) (-)

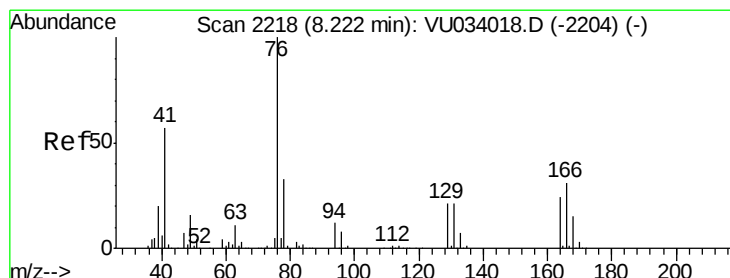
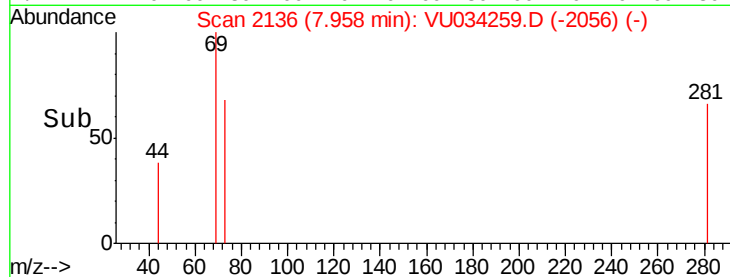
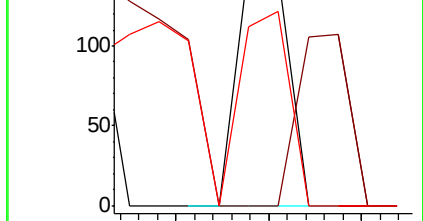
Ion 41.00 (40.70 to 41.70): VU034018.D (-2136) (-)

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

7.96

7.96

7.97



#57

1,3-Dichloropropane

Concen: 0.278 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034259.D

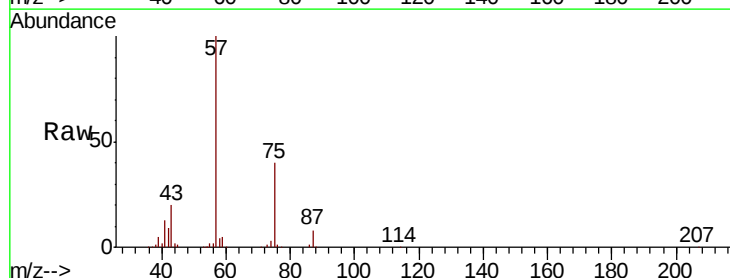
Acq: 04 Sep 2019 15:44

Tgt Ion: 76 Resp: 2356

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



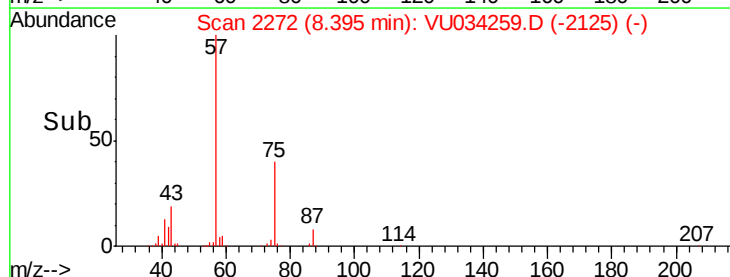
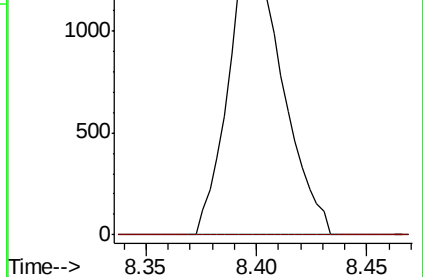
Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

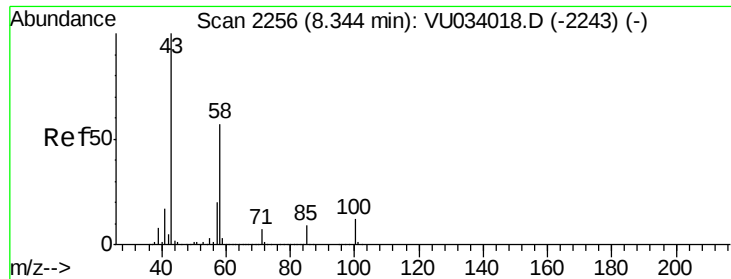
Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)

8.40

8.40

8.45





#59

2-Hexanone

Concen: 6.004 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

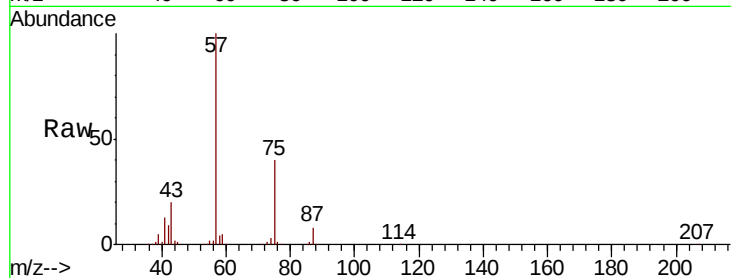
T3-S-F-(2.5)

Tgt Ion: 43 Resp: 33740

Ion Ratio Lower Upper

43 100

58 21.1 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-2243) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-2243) (-)

50000

40000

30000

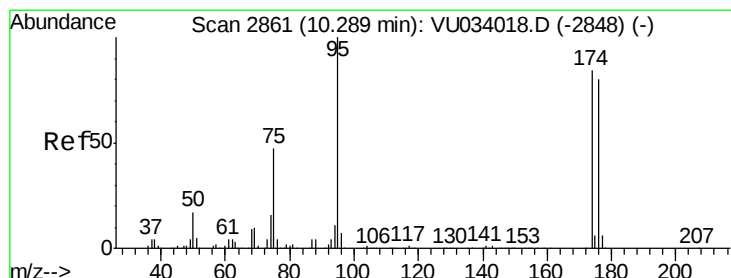
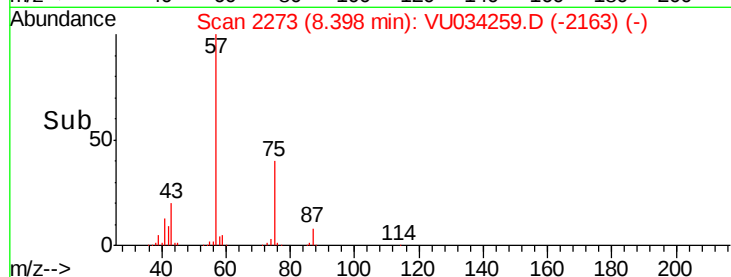
20000

10000

0

8.30 8.40 8.50

Time-->



#62

4-Bromofluorobenzene

Concen: 44.739 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

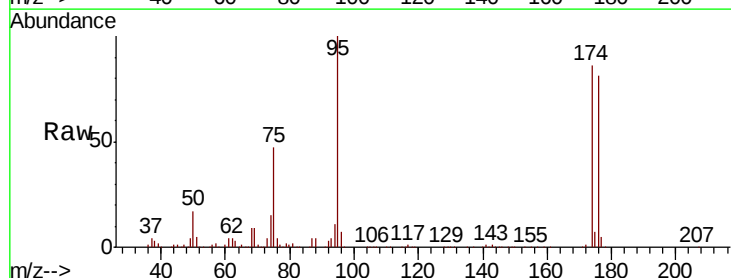
Tgt Ion: 95 Resp: 302326

Ion Ratio Lower Upper

95 100

174 86.7 0.0 168.8

176 82.5 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)

250000

200000

150000

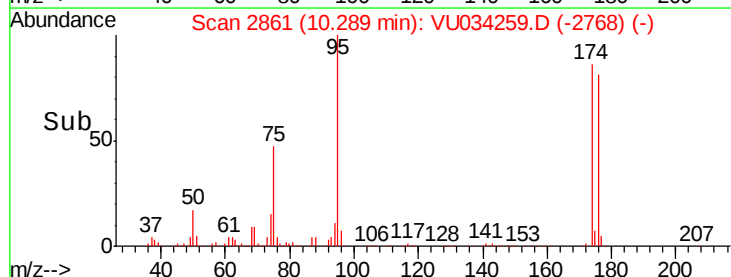
100000

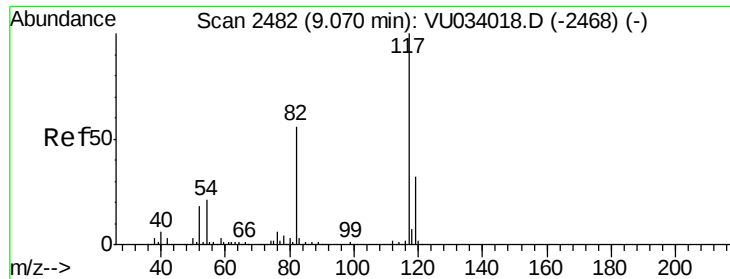
50000

0

10.20 10.30 10.40

Time-->

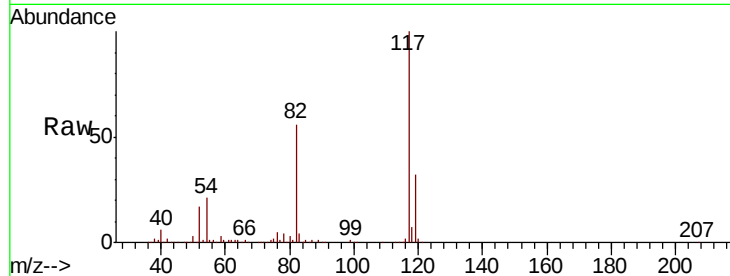




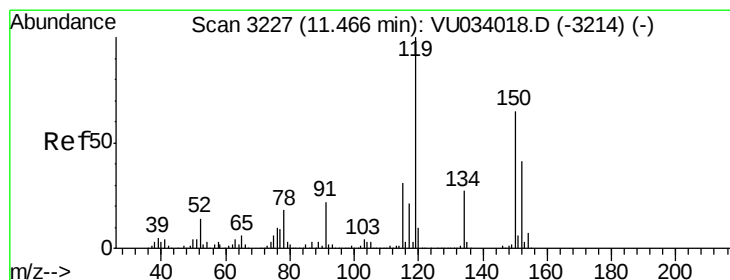
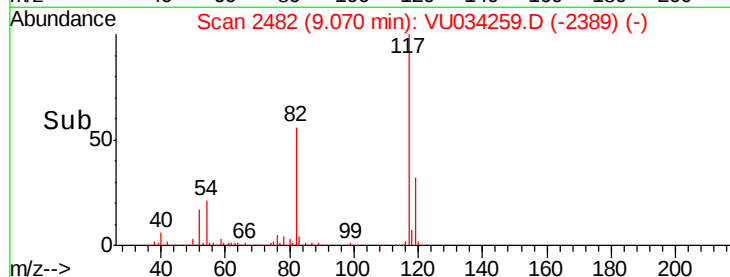
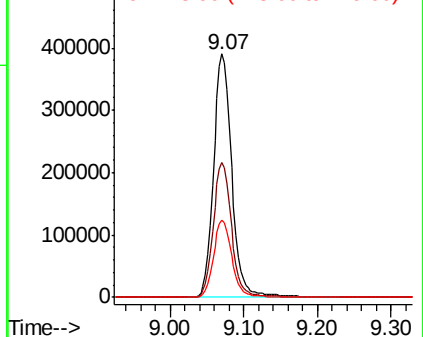
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

Instrument :
MSVOA_U
ClientSampled :
T3-S-F-(2.5)

Tgt Ion:117 Resp: 671440
Ion Ratio Lower Upper
117 100
82 55.6 45.1 67.7
119 31.9 25.4 38.0

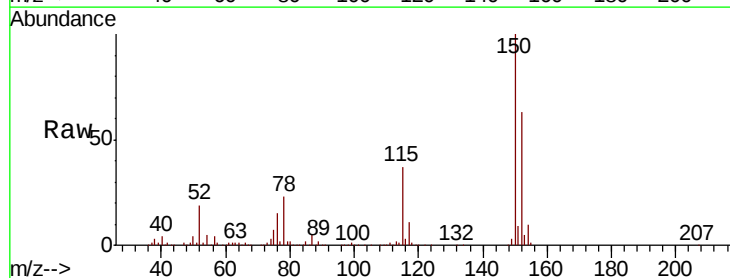


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

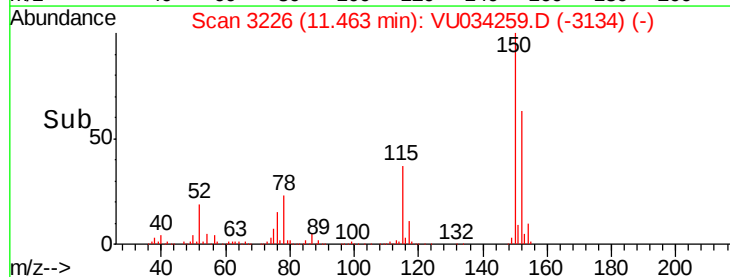
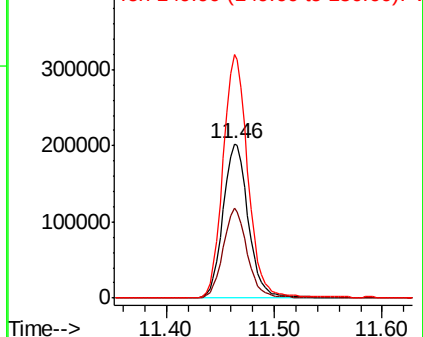


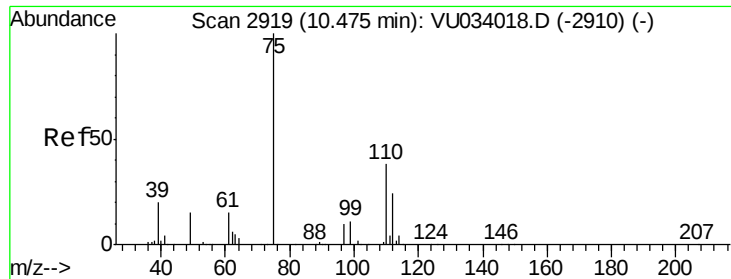
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034259.D
Acq: 04 Sep 2019 15:44

Tgt Ion:152 Resp: 329852
Ion Ratio Lower Upper
152 100
115 56.0 41.1 123.3
150 155.7 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

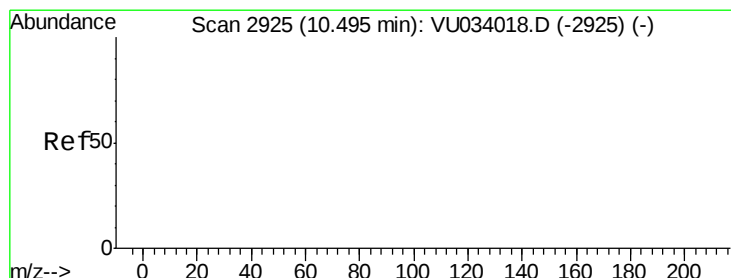
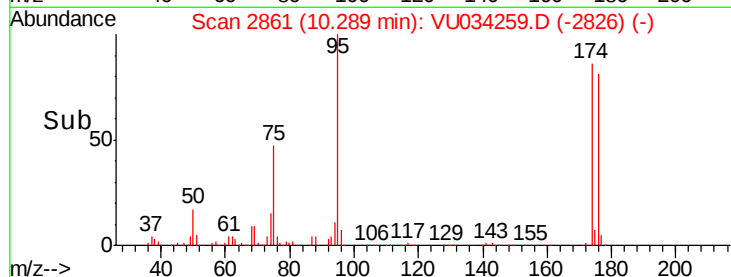
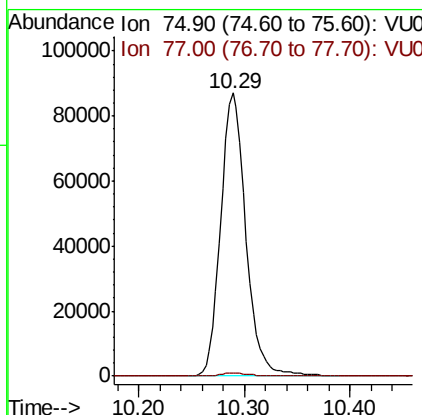
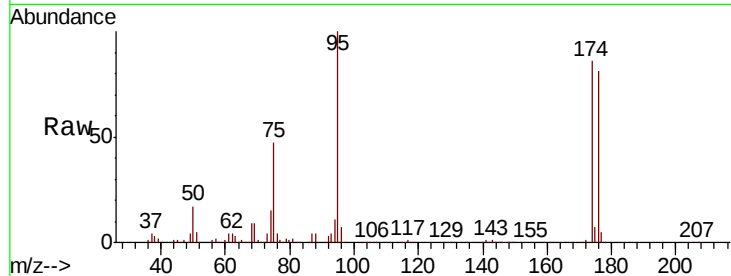




#76
 1,2,3-Trichloropropane
 Concen: 19.421 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

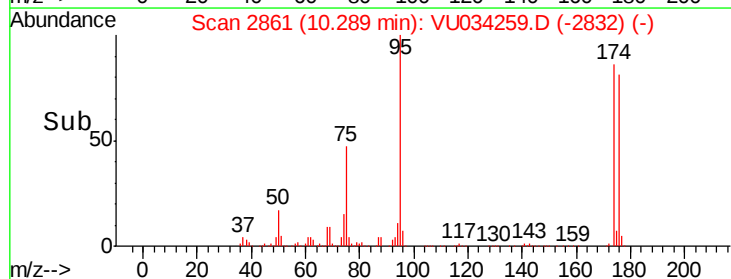
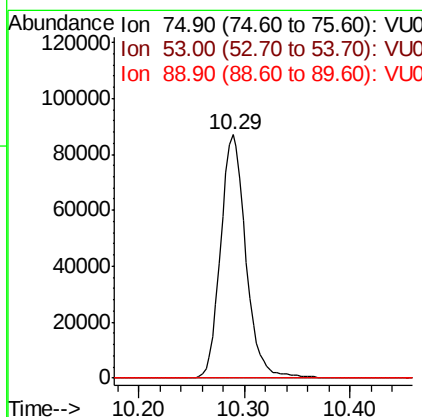
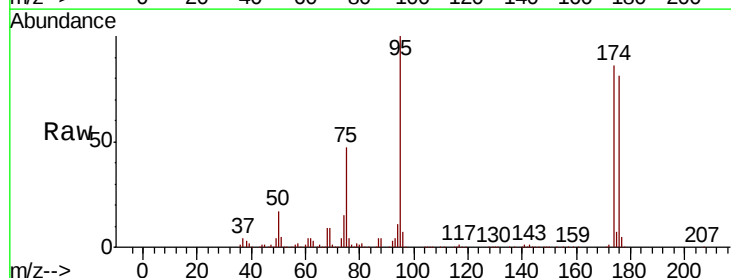
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-F-(2.5)

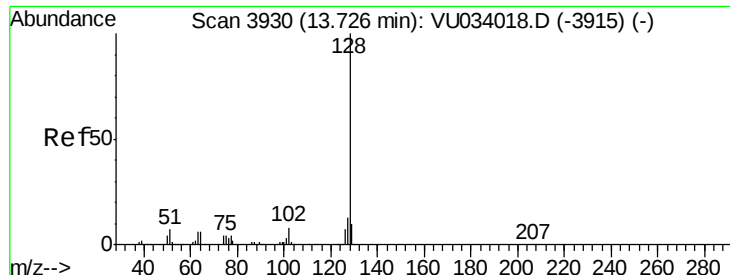
Tgt Ion: 75 Resp: 144379
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.394 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034259.D
 Acq: 04 Sep 2019 15:44

Tgt Ion: 75 Resp: 144379
 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: 13.86 min Scan# 3973

Delta R.T. 0.14 min

Lab File: VU034259.D

Acq: 04 Sep 2019 15:44

Instrument :

MSVOA_U

ClientSampleId :

T3-S-F-(2.5)

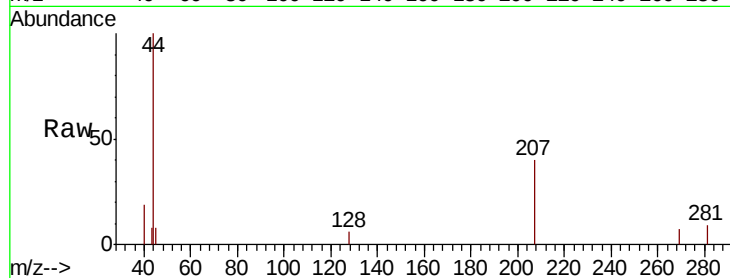
Tgt Ion:128 Resp: 19

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



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

