

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034254.D
 Acq On : 04 Sep 2019 13:48
 Operator : JC/SP
 Sample : K4547-22
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-D-(0)

Quant Time: Sep 05 03:38:16 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	418344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	682354	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	675805	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335781	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	264040	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
35) Dibromofluoromethane	4.86	113	223475	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
50) Toluene-d8	7.55	98	870231	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	10.29	95	306568	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	

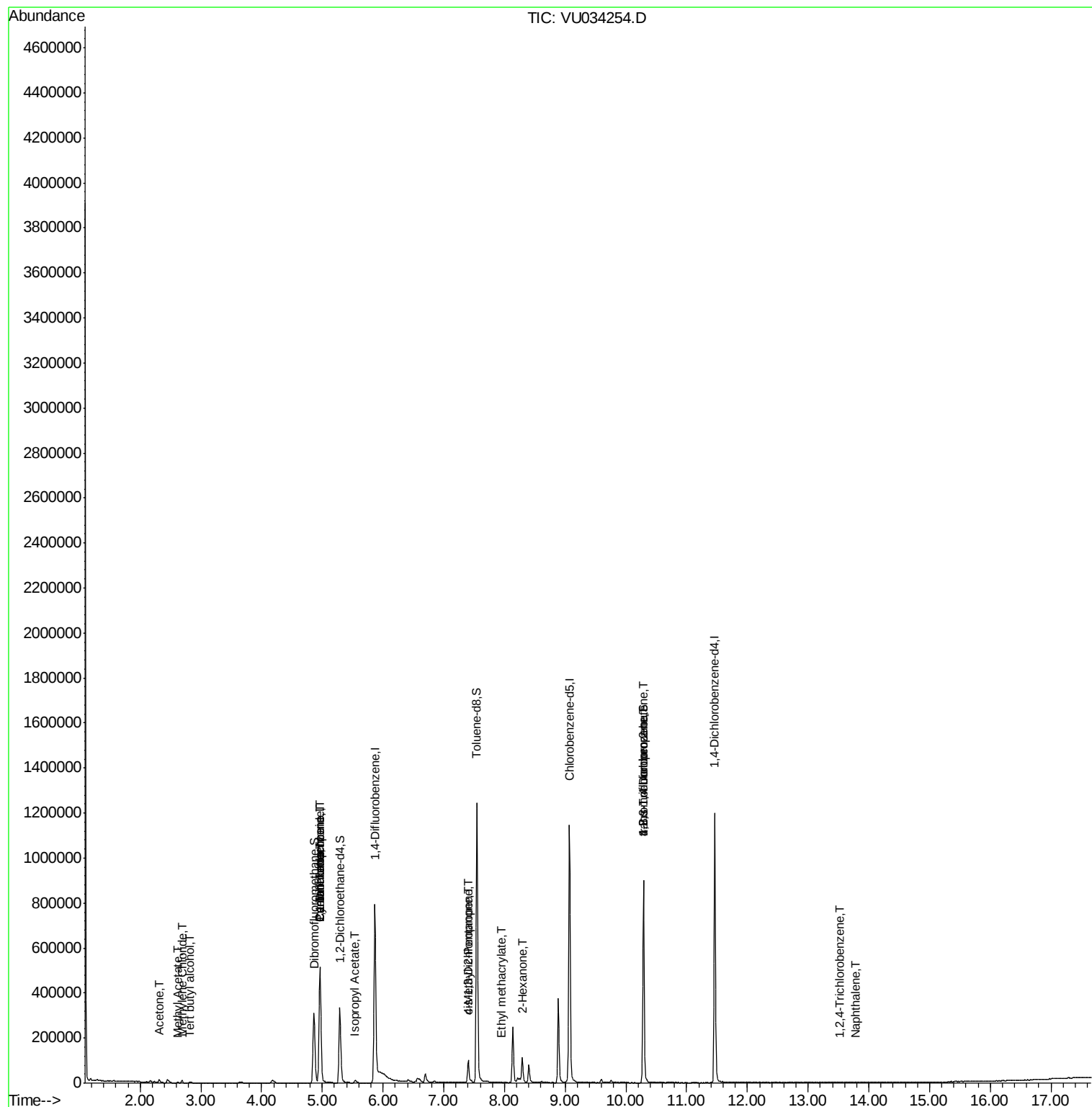
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	452	Below Cal	#	42
5) Bromomethane	1.63	94	726	Below Cal		82
11) Tert butyl alcohol	2.82	59	3039	2.458	ug/l #	73
16) Acetone	2.32	43	14742	5.390	ug/l	96
18) Methyl Acetate	2.61	43	2426	0.343	ug/l #	85
20) Methylene Chloride	2.69	84	4676	0.903	ug/l	97
31) Cyclohexane	4.96	56	7228	0.903	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29260	4.533	ug/l #	49
38) Carbon Tetrachloride	4.96	117	37873	6.079	ug/l #	16
43) Isopropyl Acetate	5.54	43	12883	1.172	ug/l	97
51) 4-Methyl-2-Pentanone	7.40	43	36128	4.758	ug/l #	46
54) cis-1,3-Dichloropropene	7.41	75	19191	2.336	ug/l #	63
56) Ethyl methacrylate	7.95	69	103	0.984	ug/l #	27
59) 2-Hexanone	8.29	43	89832	15.671	ug/l #	23
76) 1,2,3-Trichloropropane	10.29	75	146141	19.311	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	146141	65.023	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	60	1.122	ug/l #	12
95) Naphthalene	13.77	128	43	1.792	ug/l #	70

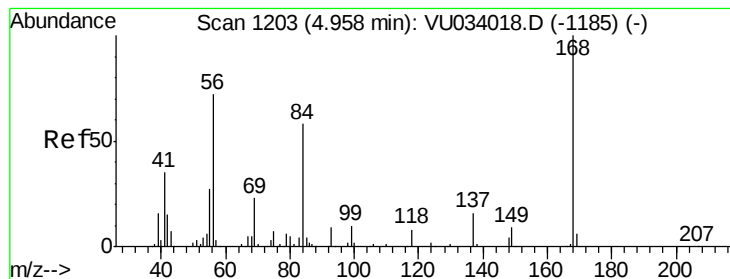
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

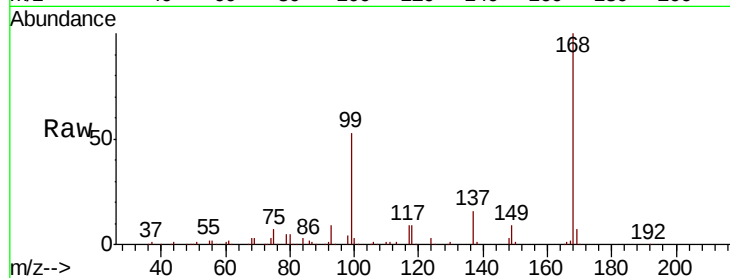
T3-S-D-(0)

Tgt Ion:168 Resp: 418344

Ion Ratio Lower Upper

168 100

99 52.8 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

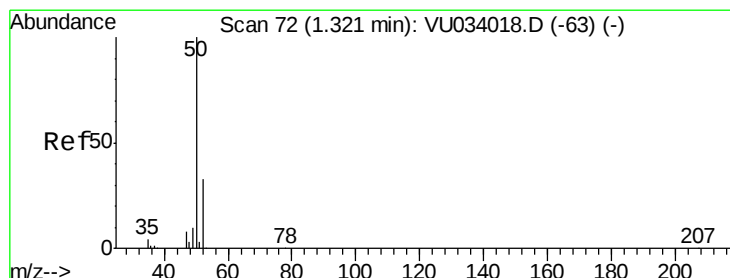
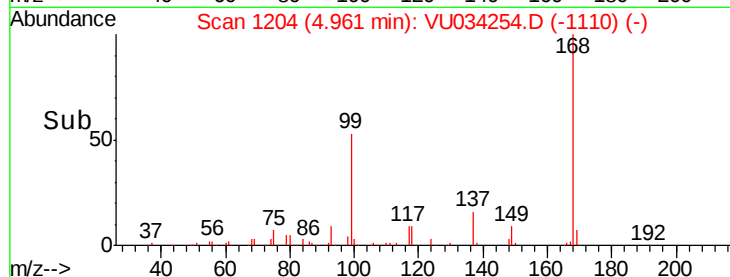
150000

100000

50000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034254.D

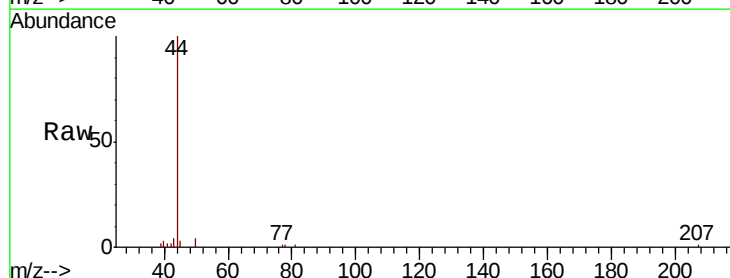
Acq: 04 Sep 2019 13:48

Tgt Ion: 50 Resp: 452

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) (-)

1.32

400

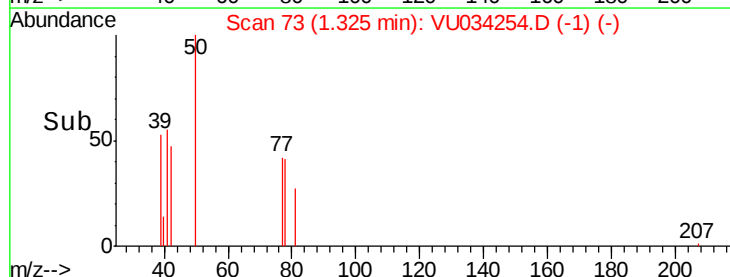
300

200

100

0

Time--> 1.30 1.32 1.34





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

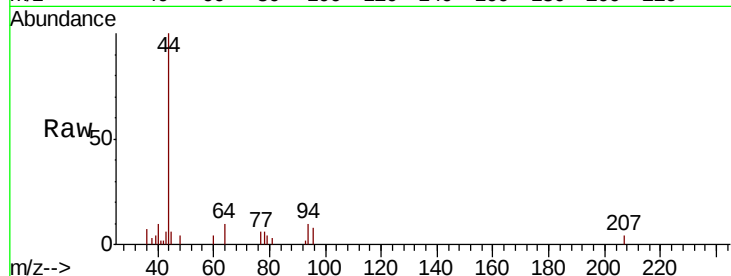
T3-S-D-(0)

Tgt Ion: 94 Resp: 726

Ion Ratio Lower Upper

94 100

96 77.4 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

400

300

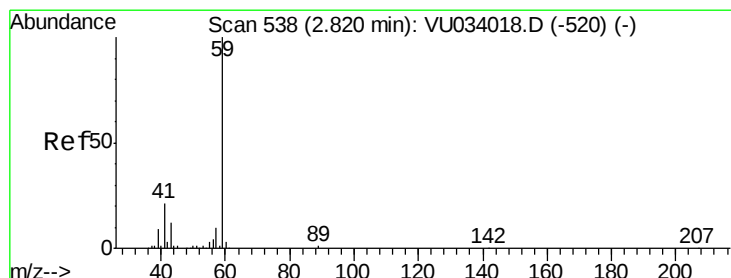
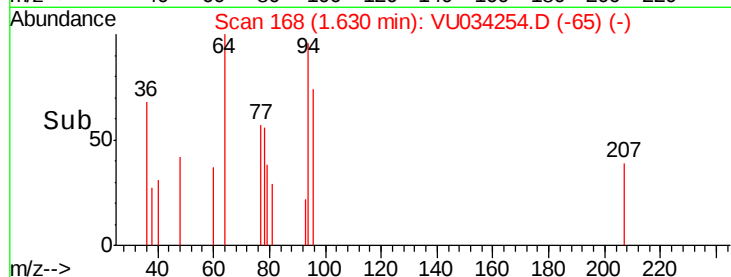
200

100

0

1.60 1.65

Time-->



#11

Tert butyl alcohol

Concen: 2.458 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034254.D

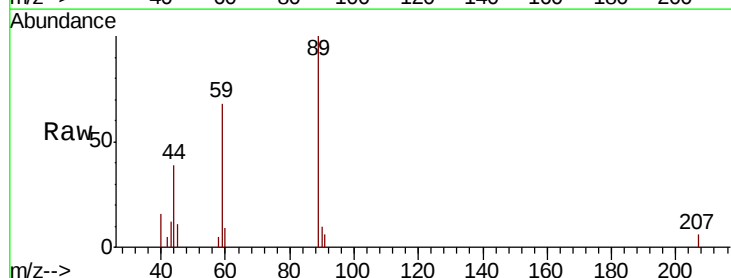
Acq: 04 Sep 2019 13:48

Tgt Ion: 59 Resp: 3039

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

2.82

1500

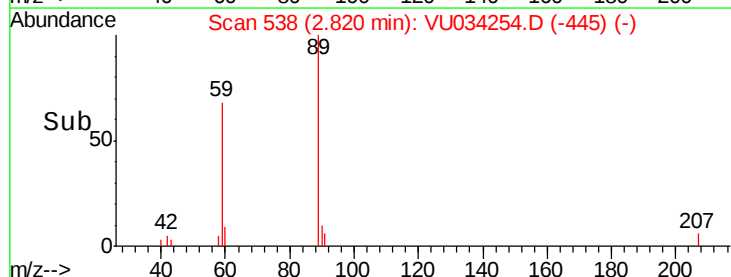
1000

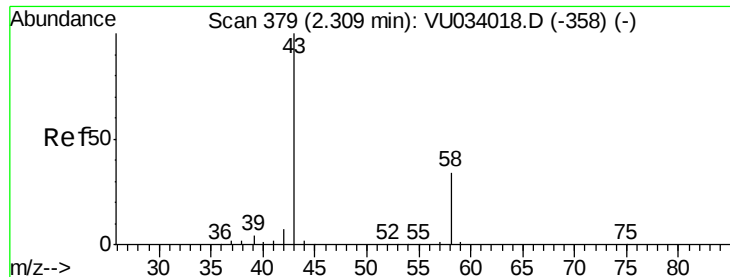
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 5.390 ug/l

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

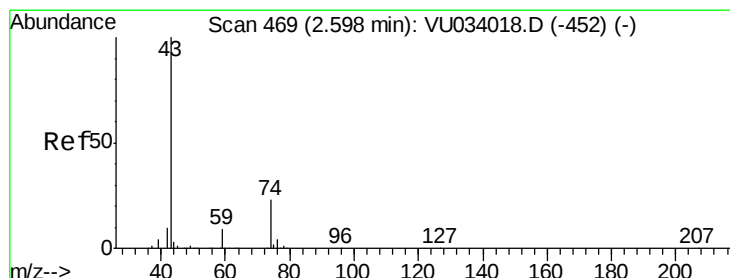
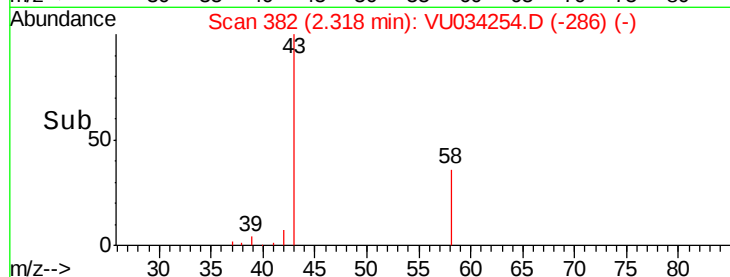
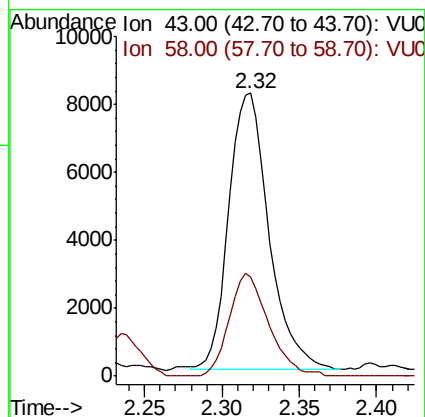
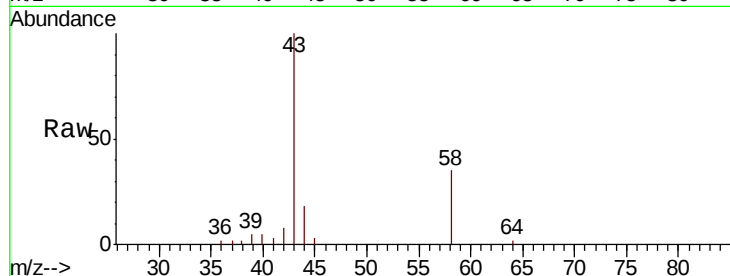
T3-S-D-(0)

Tgt Ion: 43 Resp: 14742

Ion Ratio Lower Upper

43 100

58 36.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.343 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034254.D

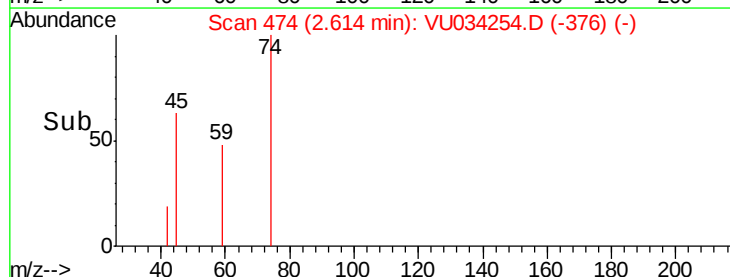
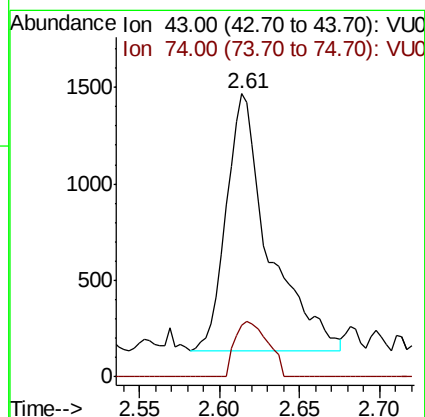
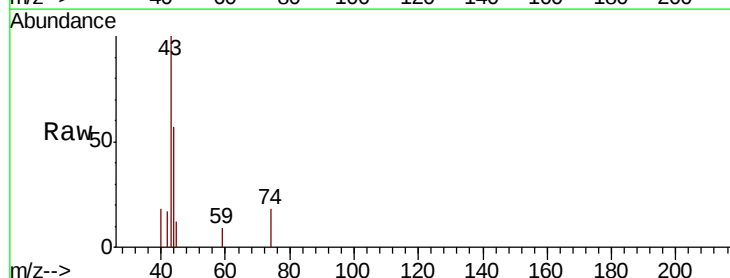
Acq: 04 Sep 2019 13:48

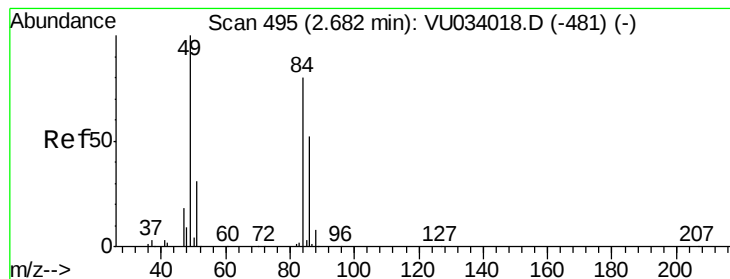
Tgt Ion: 43 Resp: 2426

Ion Ratio Lower Upper

43 100

74 16.6 19.2 28.8#





#20

Methylene Chloride

Concen: 0.903 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(0)

Tgt Ion: 84 Resp: 4676

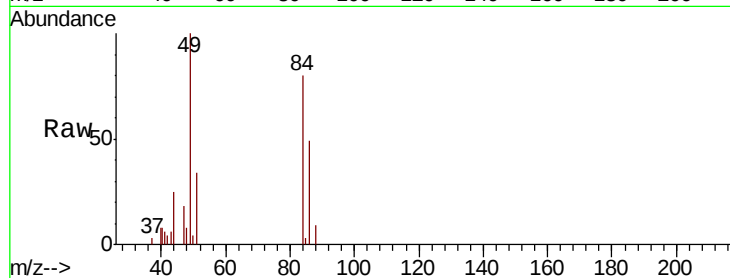
Ion Ratio Lower Upper

84 100

49 124.3 100.2 150.4

51 41.8 30.8 46.2

86 61.4 52.5 78.7

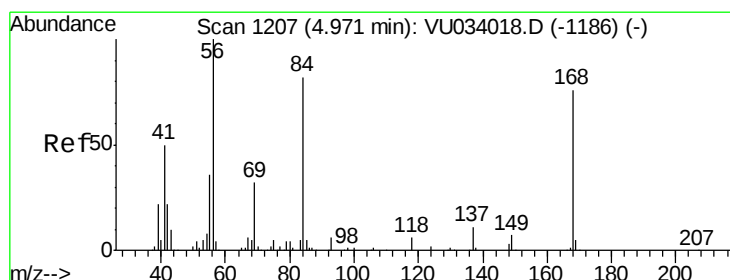
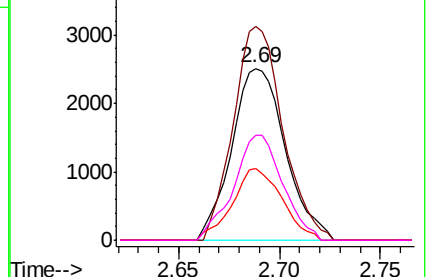
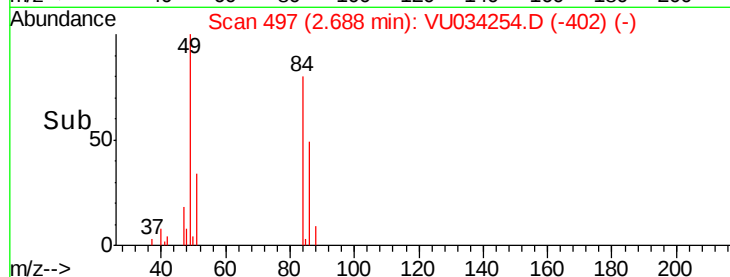


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#31

Cyclohexane

Concen: 0.903 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

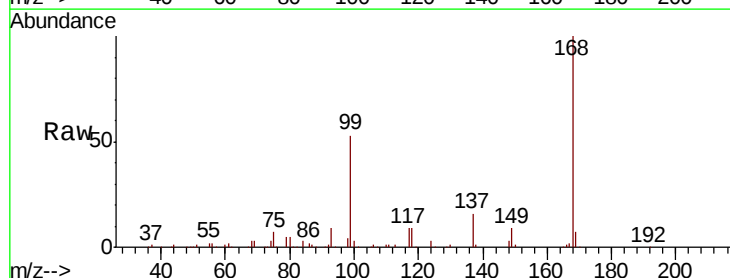
Tgt Ion: 56 Resp: 7228

Ion Ratio Lower Upper

56 100

69 192.4 25.4 38.0#

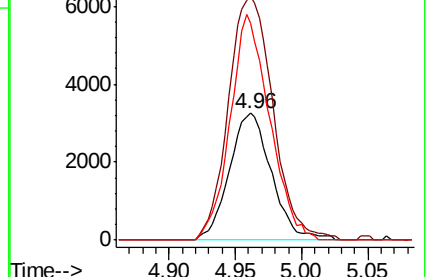
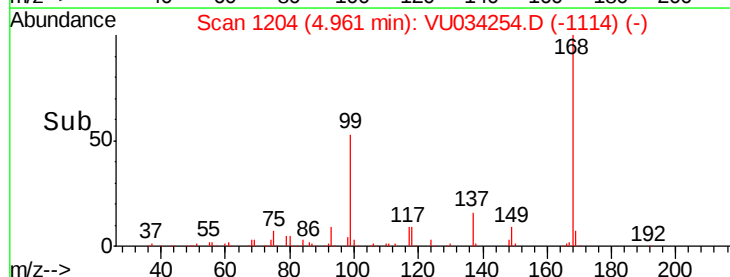
84 171.7 65.8 98.8#

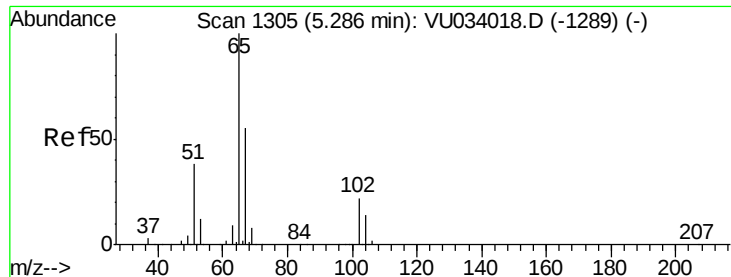


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

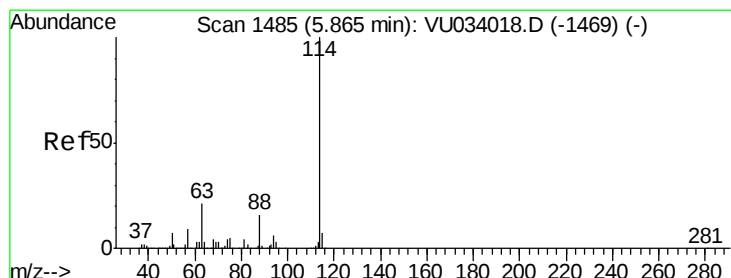
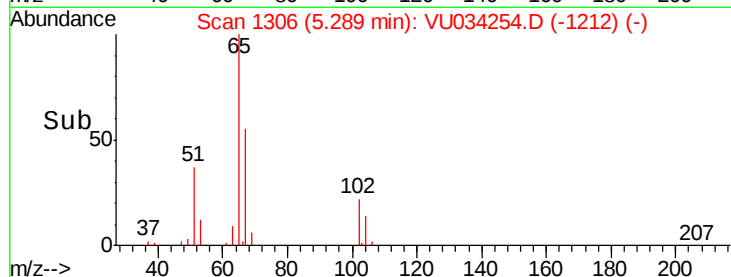
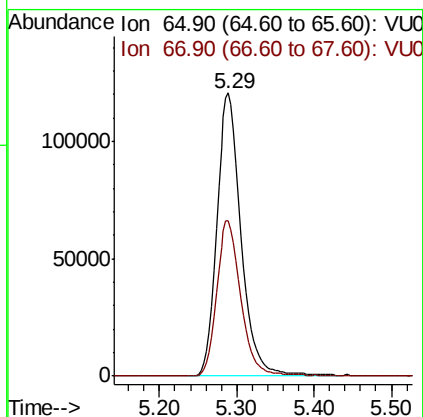
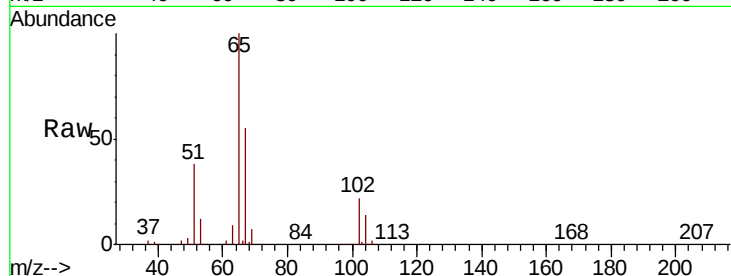




#33
 1,2-Dichloroethane-d4
 Concen: 49.257 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034254.D
 Acq: 04 Sep 2019 13:48

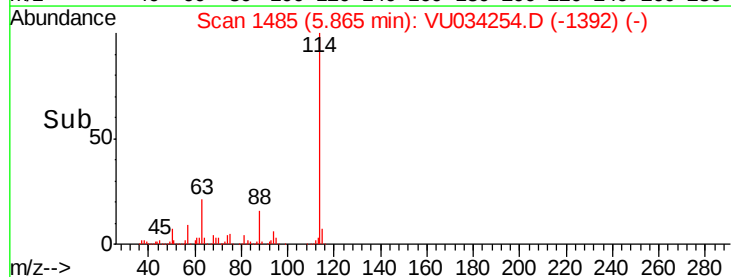
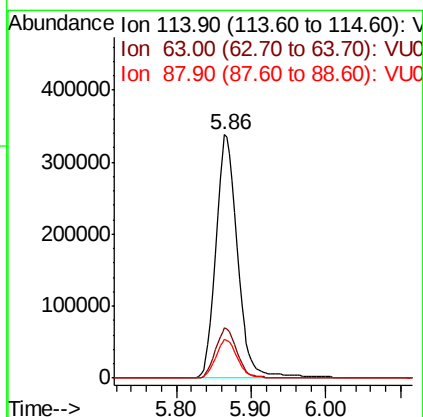
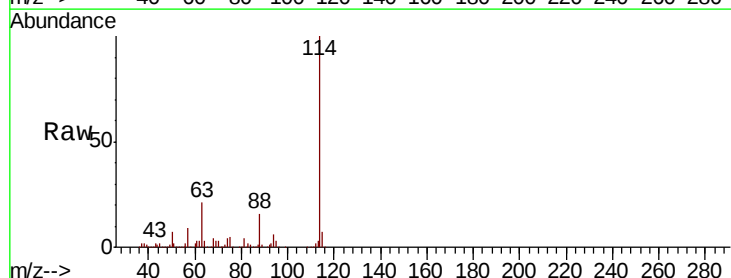
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-D-(0)

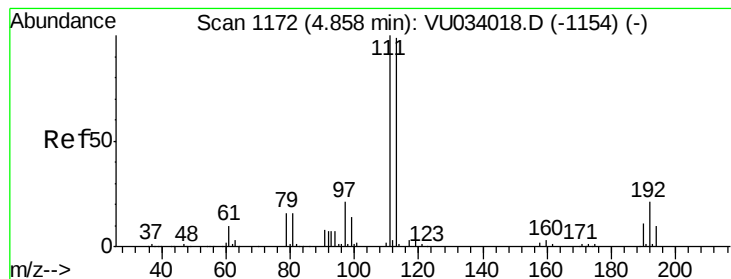
Tgt Ion: 65 Resp: 264040
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034254.D
 Acq: 04 Sep 2019 13:48

Tgt Ion: 114 Resp: 682354
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.0
 88 15.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 47.219 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(0)

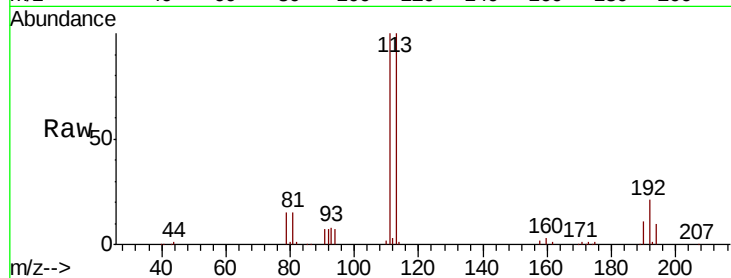
Tgt Ion:113 Resp: 223475

Ion Ratio Lower Upper

113 100

111 101.4 81.7 122.5

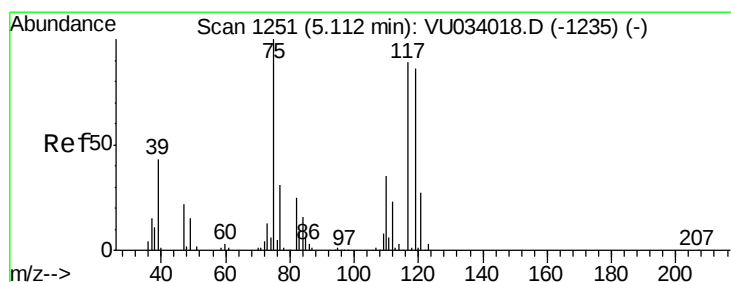
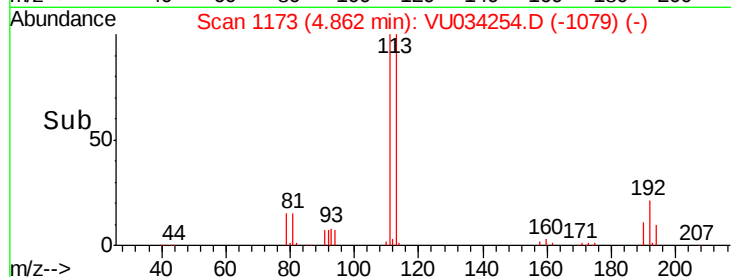
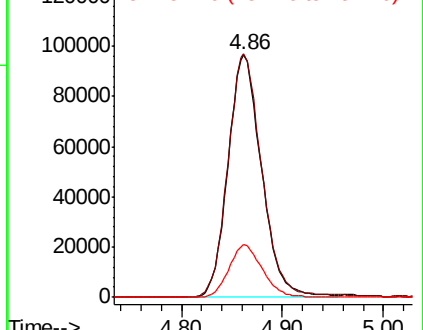
192 21.6 17.1 25.7



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: 4.533 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

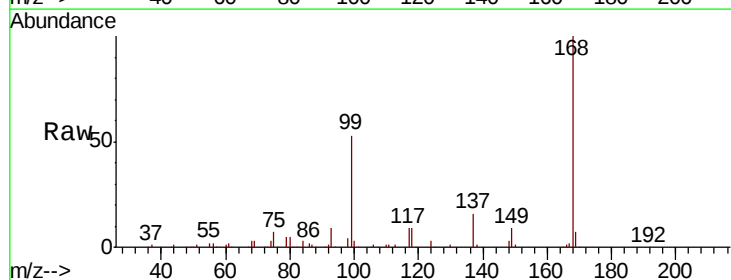
Tgt Ion: 75 Resp: 29260

Ion Ratio Lower Upper

75 100

110 8.7 17.8 53.5#

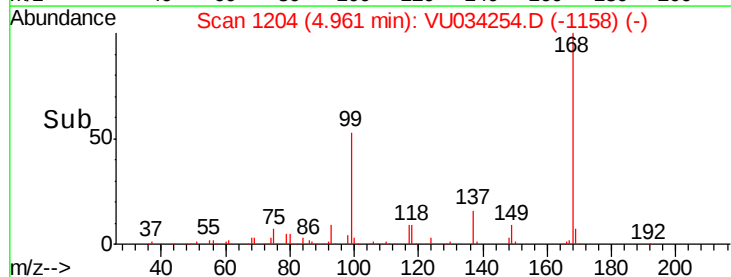
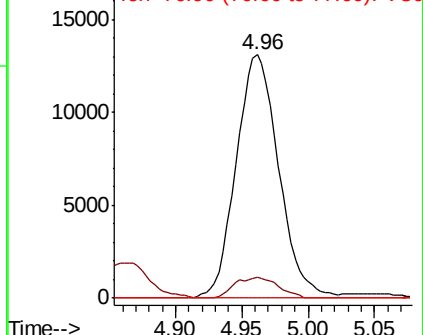
77 0.0 25.0 37.4#

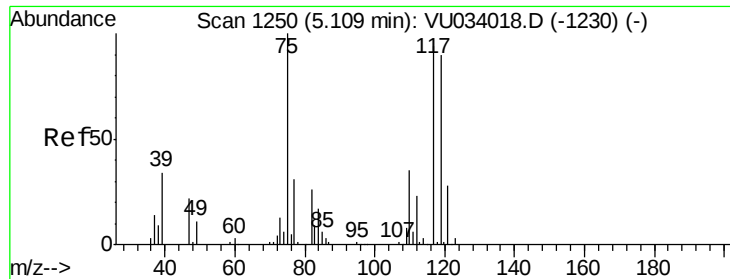


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.079 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(0)

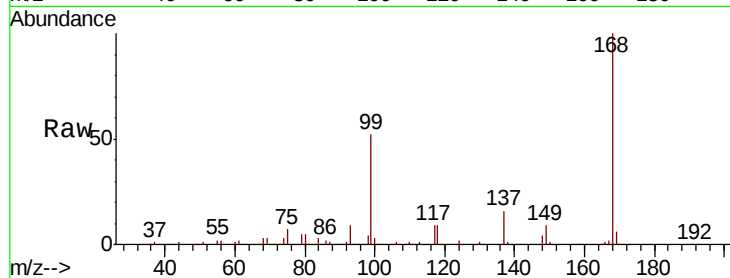
Tgt Ion:117 Resp: 37873

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.4#

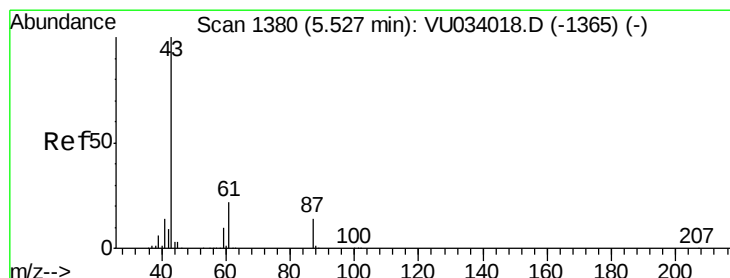
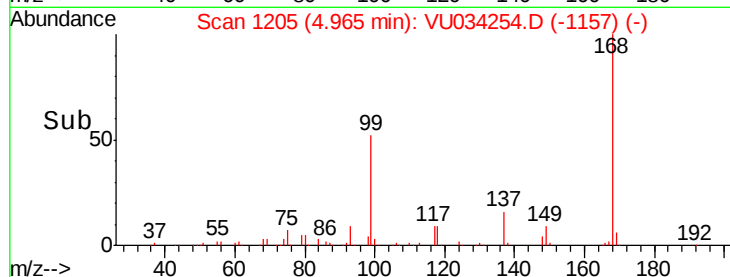
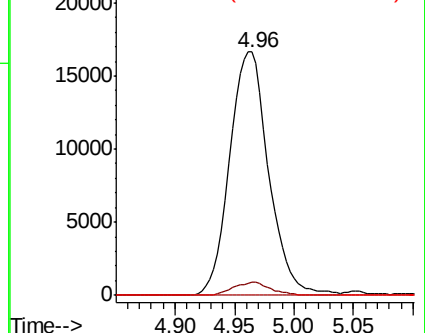
121 0.0 23.9 35.9#



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: 1.172 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

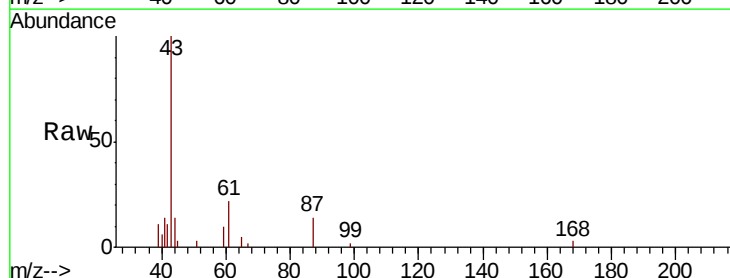
Tgt Ion: 43 Resp: 12883

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

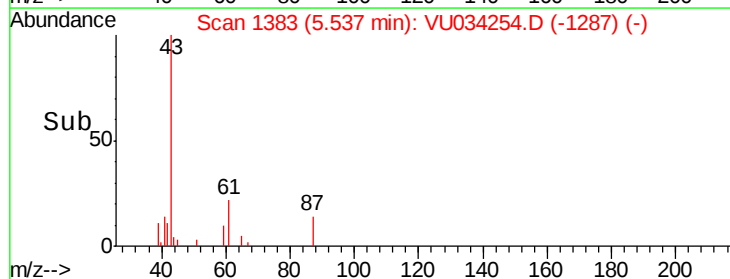
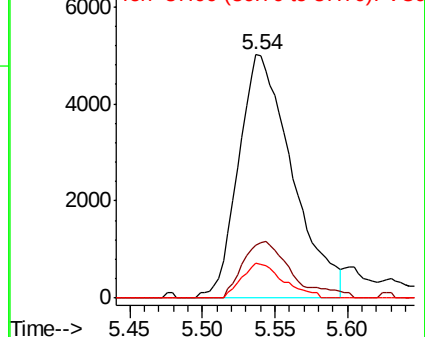
87 11.2 10.8 16.2

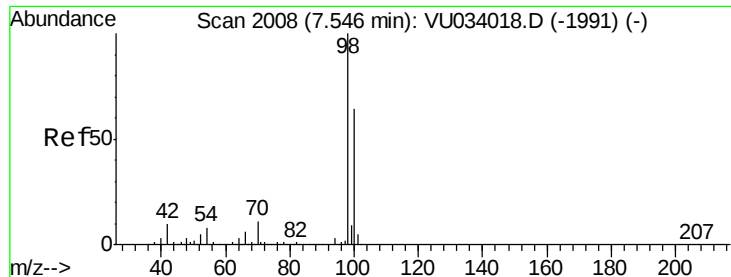


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

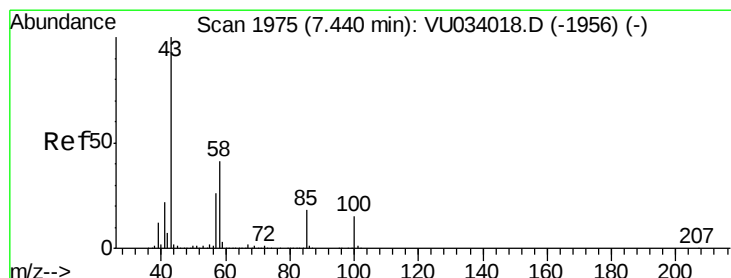
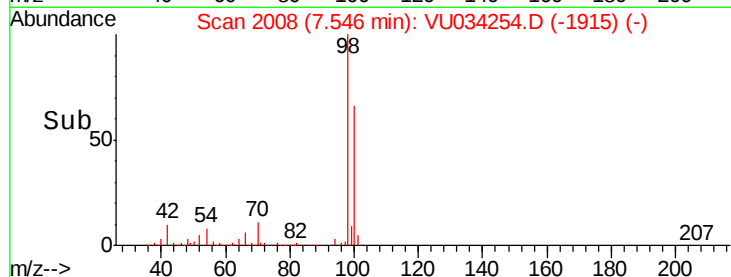
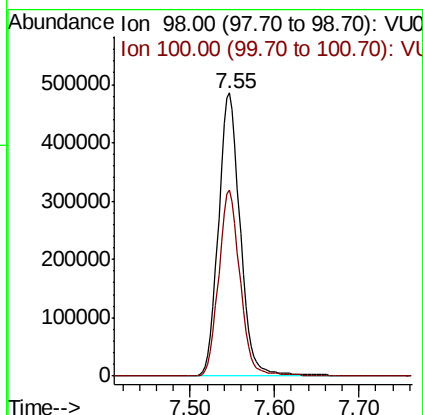
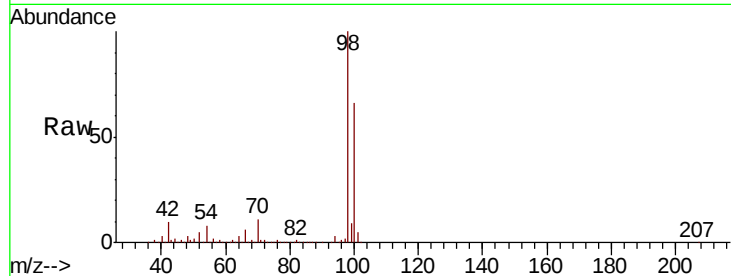




#50
Toluene-d8
Concen: 49.107 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

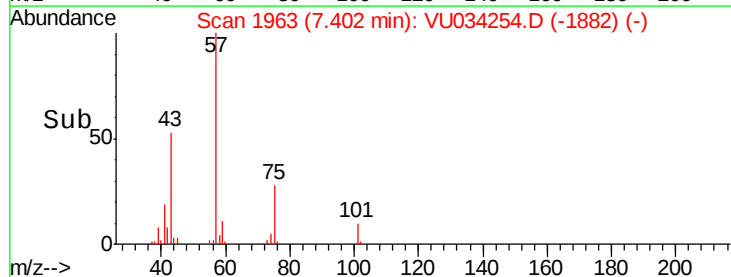
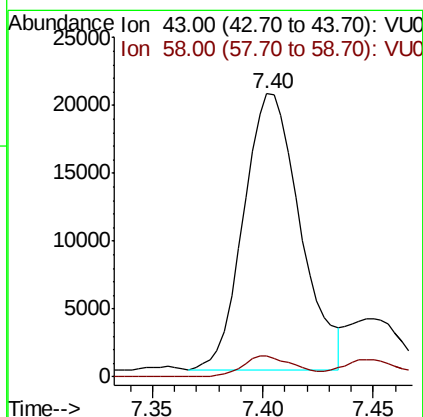
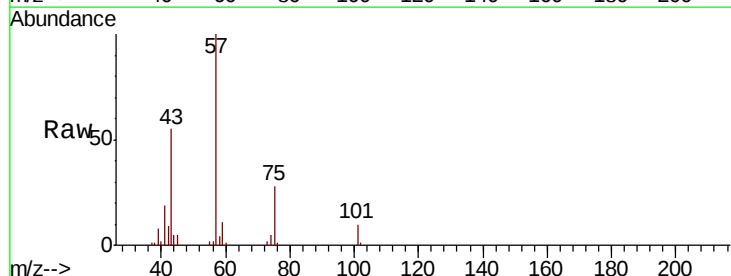
Instrument :
MSVOA_U
ClientSampleId :
T3-S-D(0)

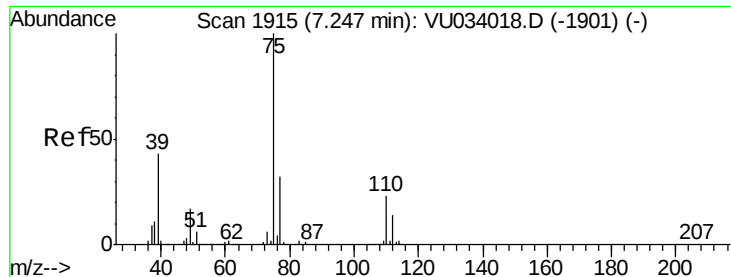
Tgt Ion: 98 Resp: 870231
Ion Ratio Lower Upper
98 100
100 64.5 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 4.758 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

Tgt Ion: 43 Resp: 36128
Ion Ratio Lower Upper
43 100
58 6.9 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 2.336 ug/l

RT: 7.41 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D(0)

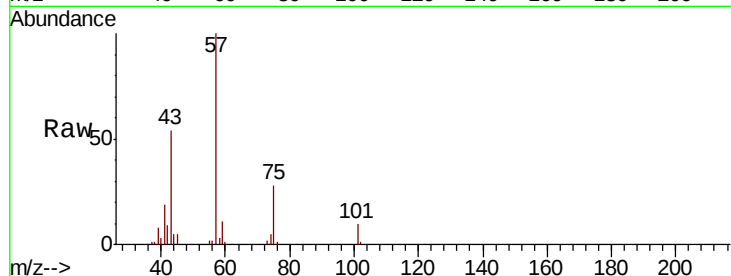
Tgt Ion: 75 Resp: 19191

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

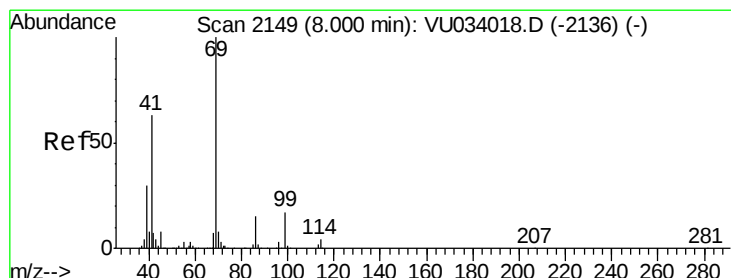
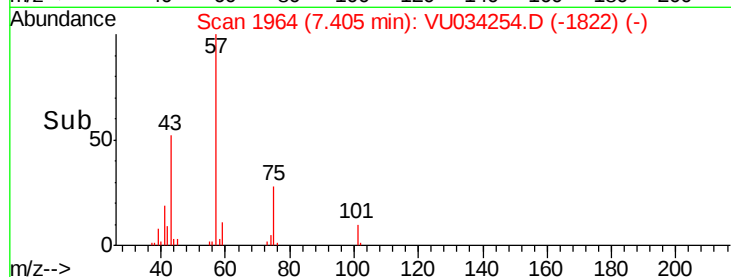
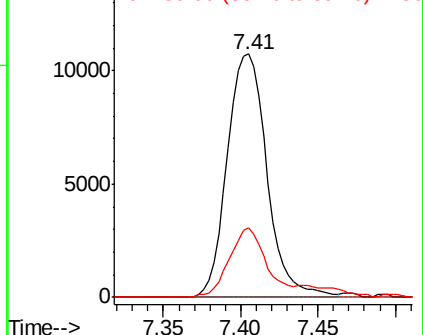
39 28.4 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1901) (-)



#56

Ethyl methacrylate

Concen: 0.984 ug/l

RT: 7.95 min Scan# 2135

Delta R.T. -0.04 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

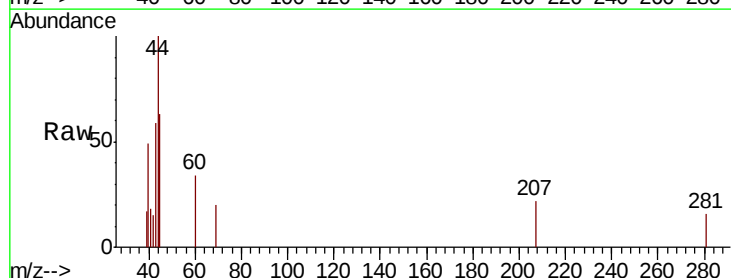
Tgt Ion: 69 Resp: 103

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

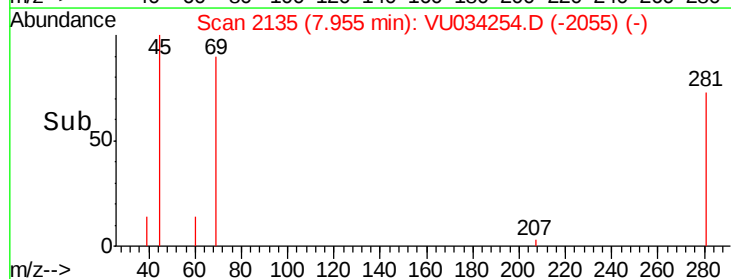
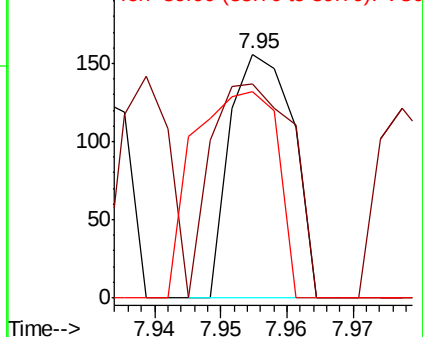
39 0.0 24.2 36.2#

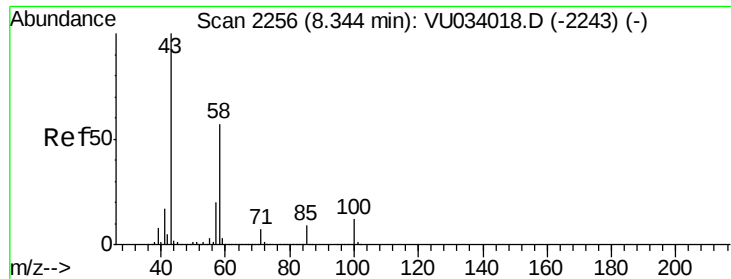


Abundance Ion 69.00 (68.70 to 69.70): VU034018.D (-2136) (-)

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

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

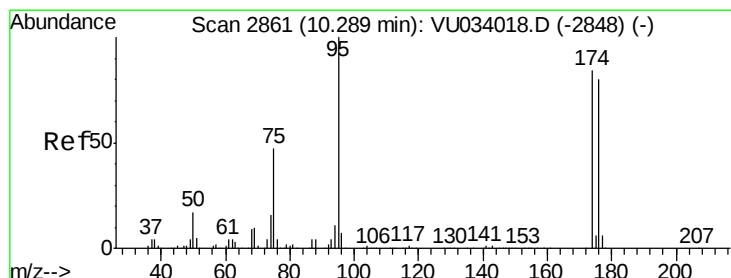
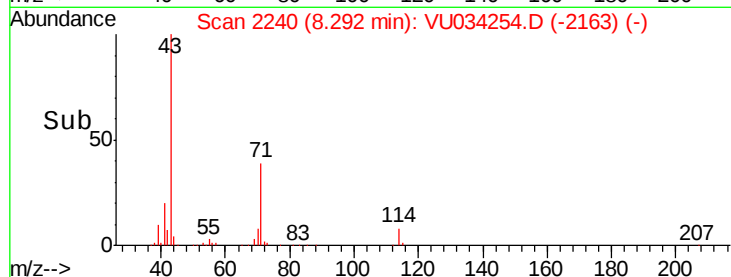
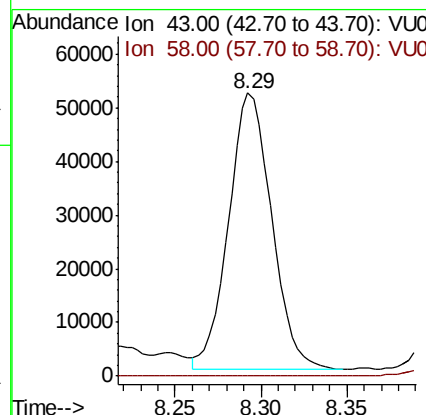
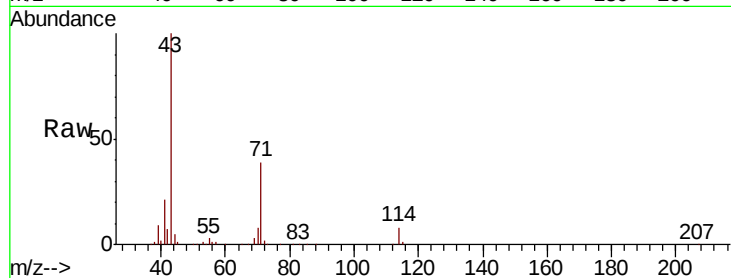




#59
2-Hexanone
Concen: 15.671 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

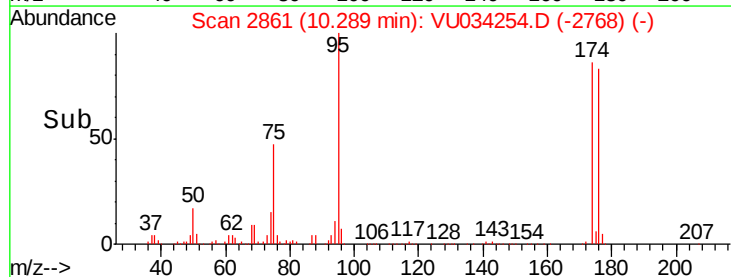
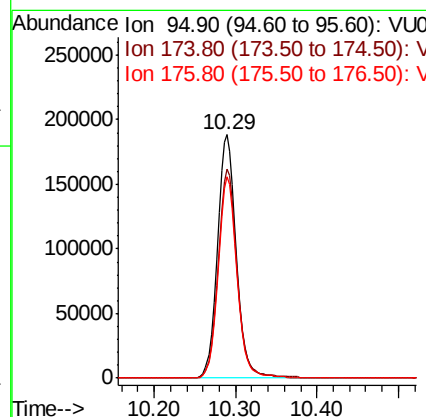
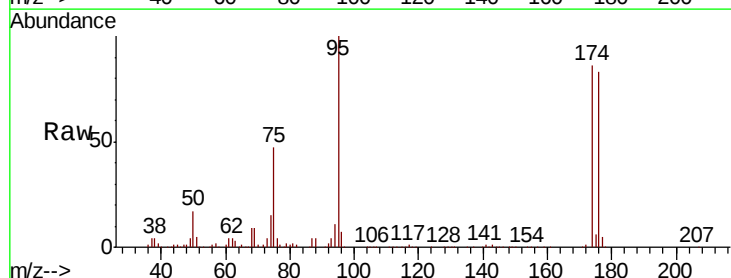
Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(0)

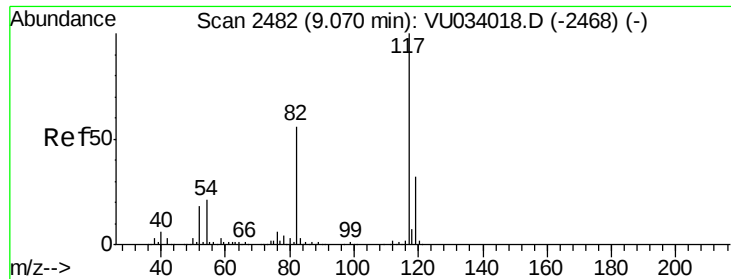
Tgt Ion: 43 Resp: 89832
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.473 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

Tgt Ion: 95 Resp: 306568
Ion Ratio Lower Upper
95 100
174 86.7 0.0 168.8
176 82.8 0.0 161.8

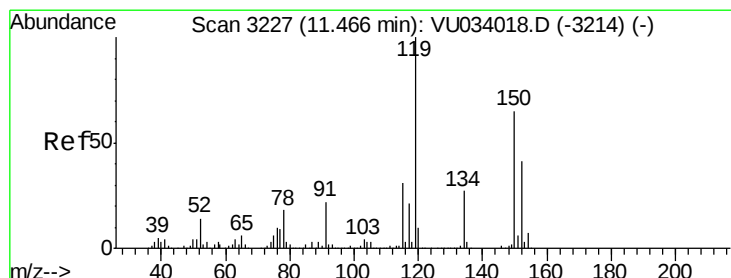
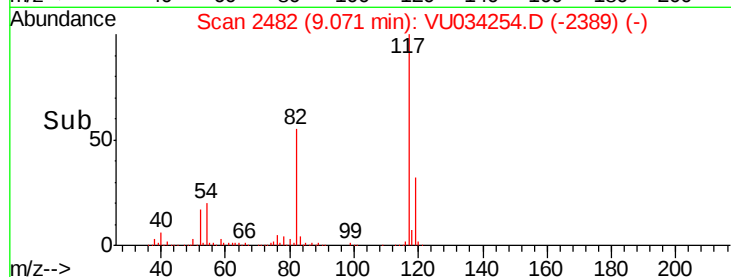
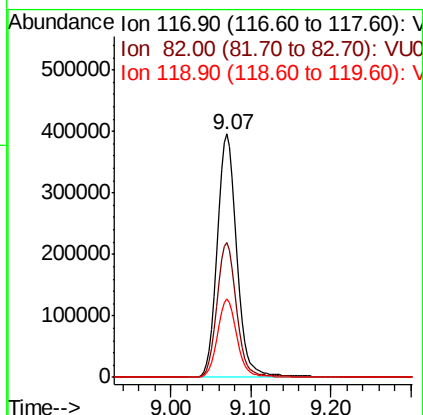
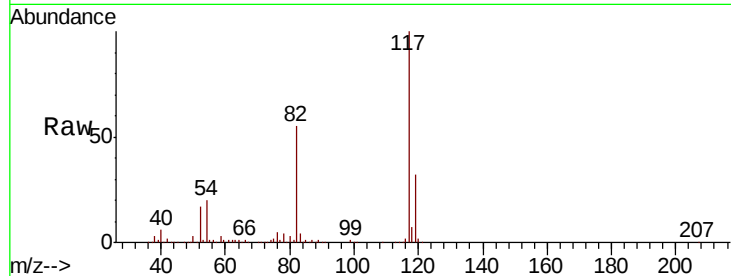




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

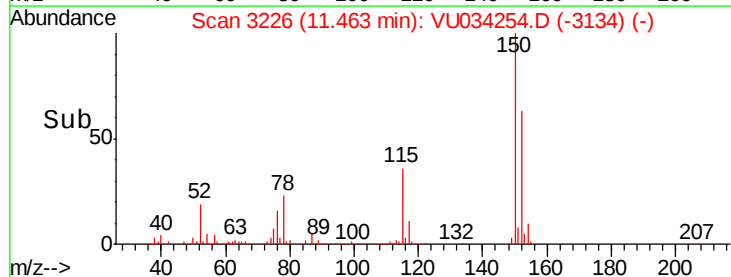
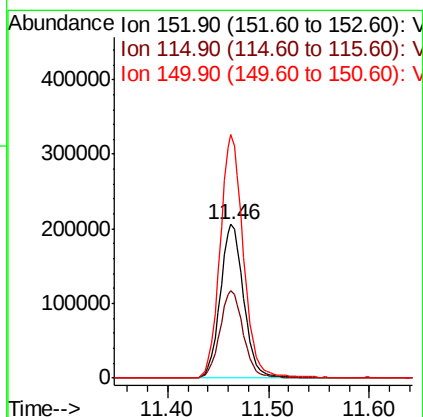
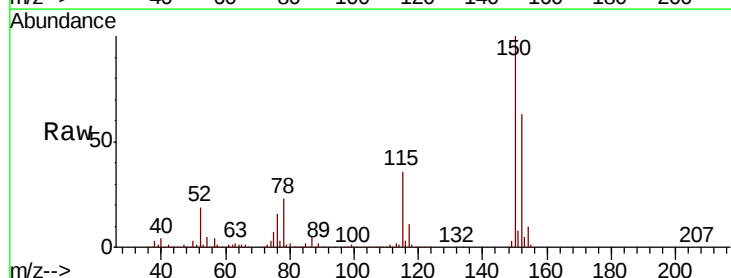
Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(0)

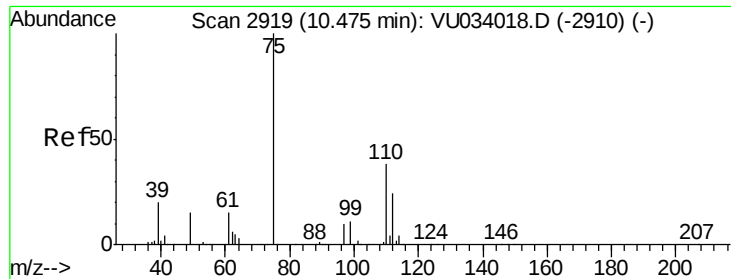
Tgt Ion:117 Resp: 675805
Ion Ratio Lower Upper
117 100
82 55.4 45.1 67.7
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034254.D
Acq: 04 Sep 2019 13:48

Tgt Ion:152 Resp: 335781
Ion Ratio Lower Upper
152 100
115 56.6 41.1 123.3
150 156.8 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 19.311 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

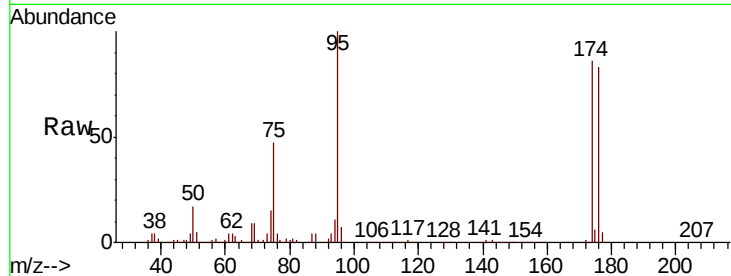
T3-S-D-(0)

Tgt Ion: 75 Resp: 146141

Ion Ratio Lower Upper

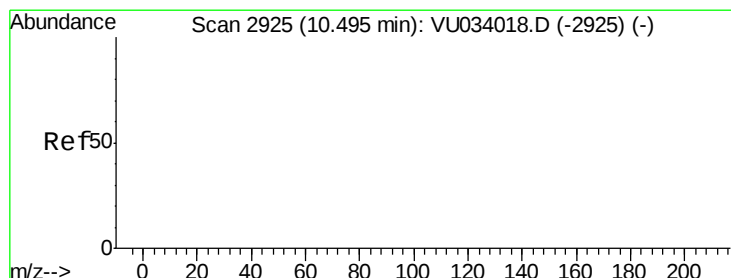
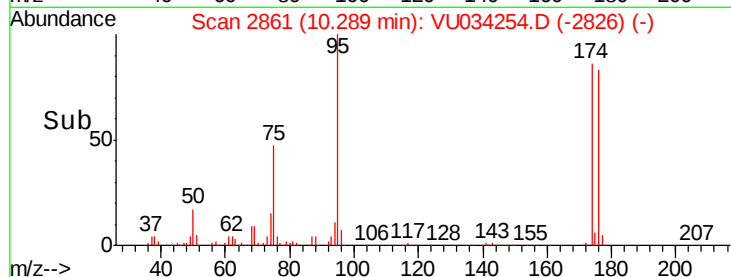
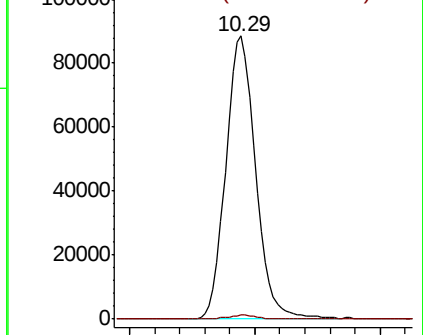
75 100

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: 65.023 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034254.D

Acq: 04 Sep 2019 13:48

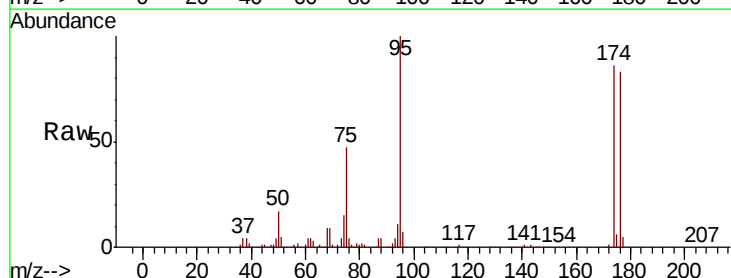
Tgt Ion: 75 Resp: 146141

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

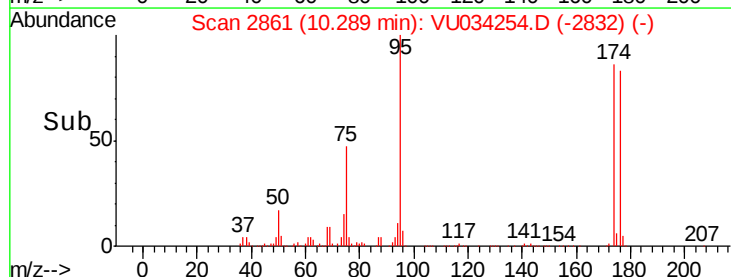
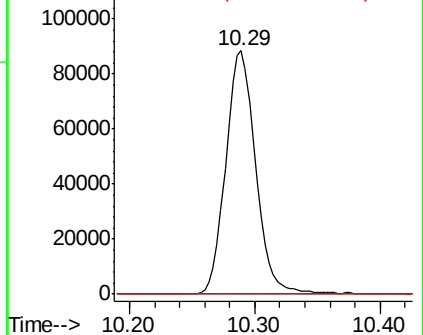
89 0.0 0.0 0.0

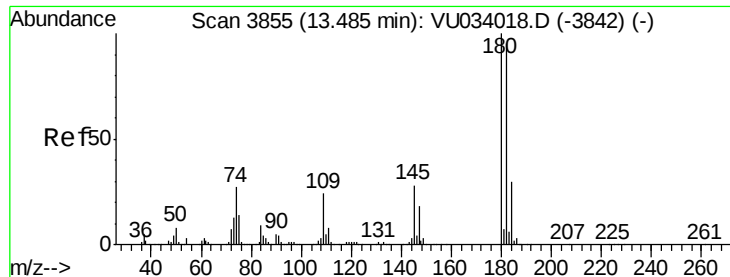


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

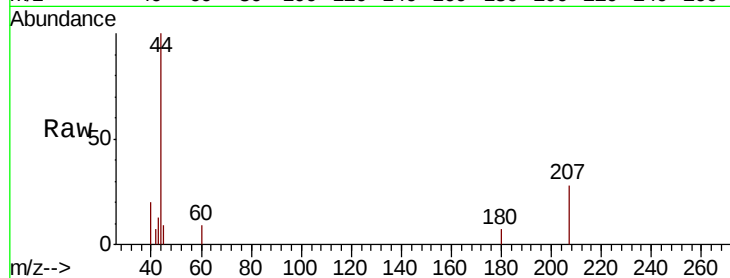




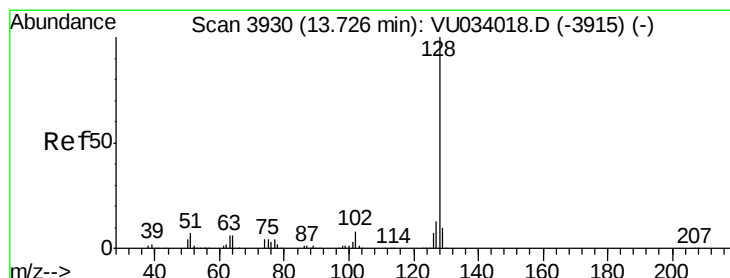
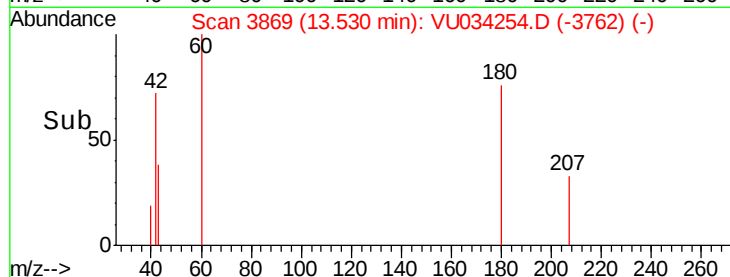
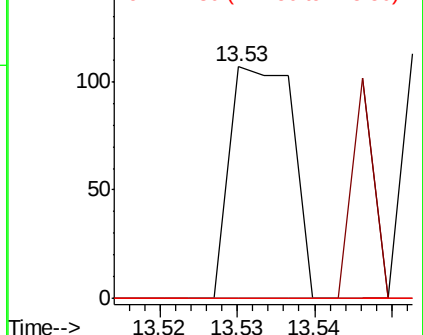
#93
 1,2,4-Trichlorobenzene
 Concen: 1.122 ug/l
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.05 min
 Lab File: VU034254.D
 Acq: 04 Sep 2019 13:48

Instrument :
 MSVOA_U
 ClientSampled :
 T3-S-D-(0)

Tgt Ion:180 Resp: 60
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.2#
 145 0.0 14.1 42.3#

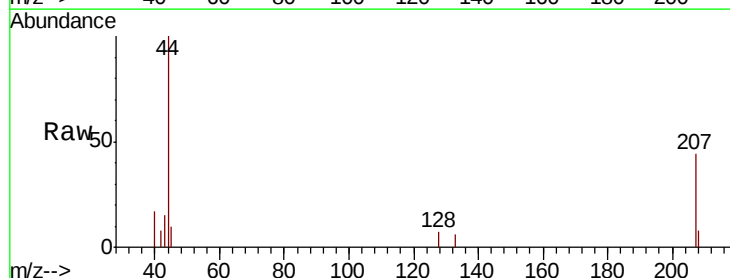


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.792 ug/l
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.04 min
 Lab File: VU034254.D
 Acq: 04 Sep 2019 13:48

Tgt Ion:128 Resp: 43
 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

