

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034153.D
 Acq On : 01 Sep 2019 04:06
 Operator : JC/SP
 Sample : K4526-36
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G3-(0)

Quant Time: Sep 01 04:55:25 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	449355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	730429	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	719567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	349364	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	285360	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	4.86	113	238339	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	
50) Toluene-d8	7.55	98	942586	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	10.29	95	330123	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

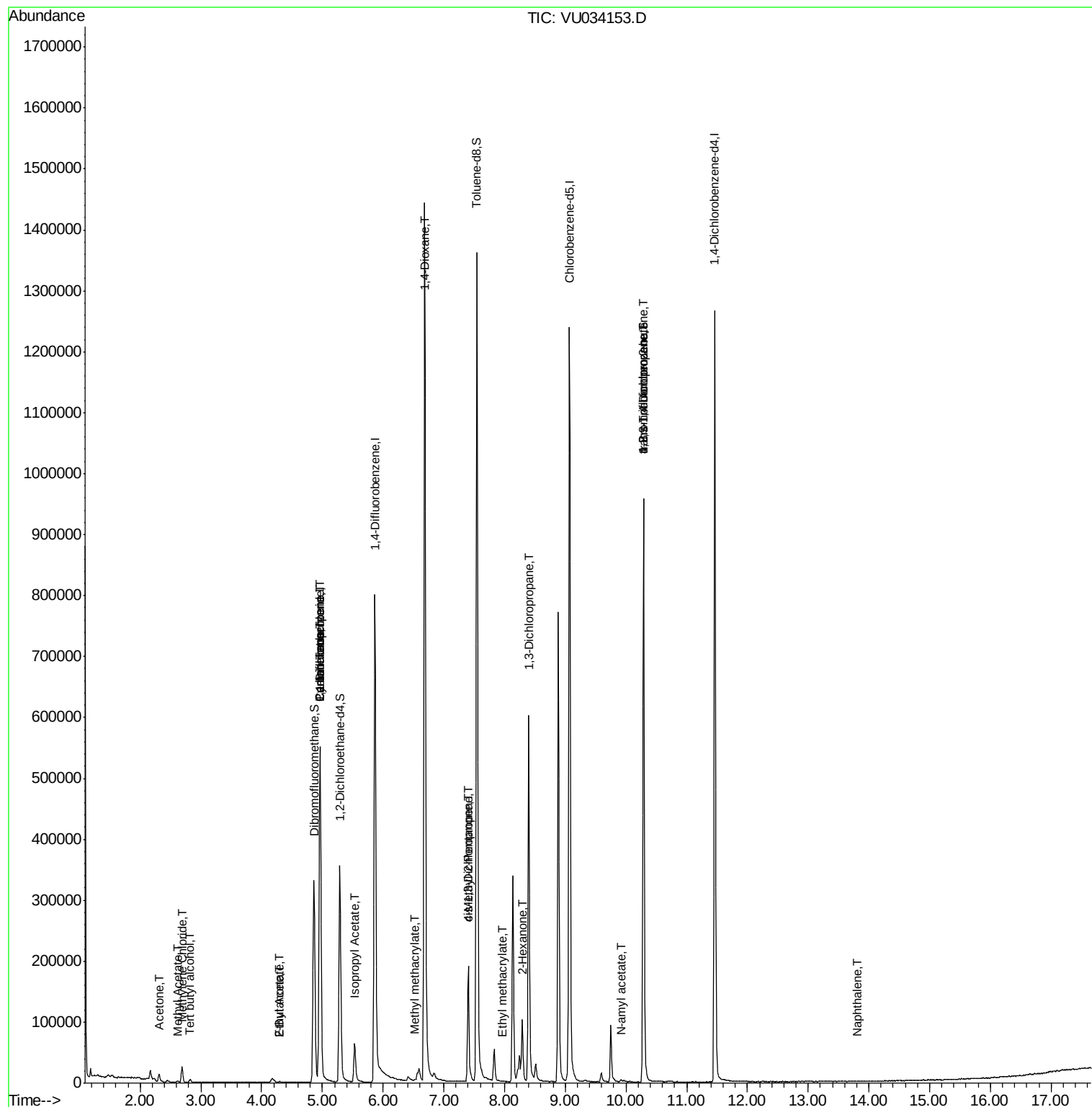
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	504	Below Cal	#	79
5) Bromomethane	1.58	94	40	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3354	2.526	ug/l #	73
16) Acetone	2.31	43	14324	4.876	ug/l	98
18) Methyl Acetate	2.61	43	3462	0.456	ug/l #	86
20) Methylene Chloride	2.69	84	11314	2.034	ug/l	96
25) 2-Butanone	4.29	43	1561	0.382	ug/l #	80
31) Cyclohexane	4.96	56	8117	0.944	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31855	4.611	ug/l #	49
37) Ethyl Acetate	4.29	43	1561	0.202	ug/l #	68
38) Carbon Tetrachloride	4.96	117	40632	6.093	ug/l #	17
43) Isopropyl Acetate	5.53	43	75899	6.448	ug/l	98
48) Methyl methacrylate	6.53	41	4047	0.713	ug/l #	14
49) 1,4-Dioxane	6.68	88	79	0.555	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67669	8.325	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	34974	3.978	ug/l #	62
56) Ethyl methacrylate	7.97	69	115	0.984	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6465	0.699	ug/l #	42
59) 2-Hexanone	8.29	43	78567	12.803	ug/l #	23
74) N-amyl acetate	9.92	43	2772	0.281	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	157728	20.031	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	157728	67.450	ug/l #	100
95) Naphthalene	13.80	128	21	1.791	ug/l #	70

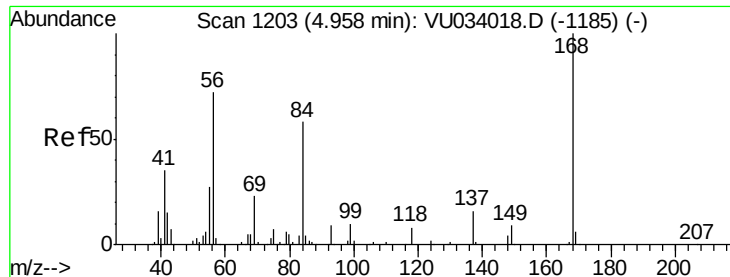
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

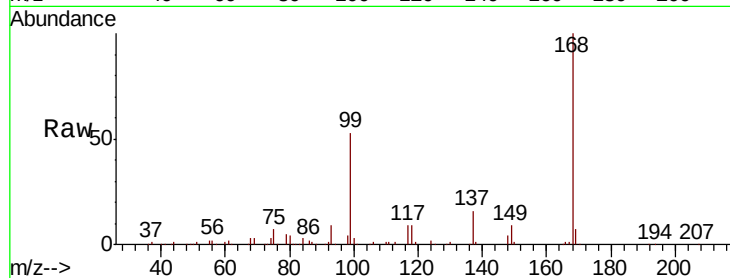
T9-12-13-G3-(0)

Tgt Ion: 168 Resp: 449355

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

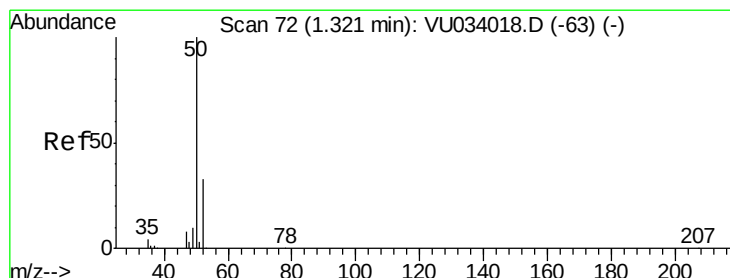
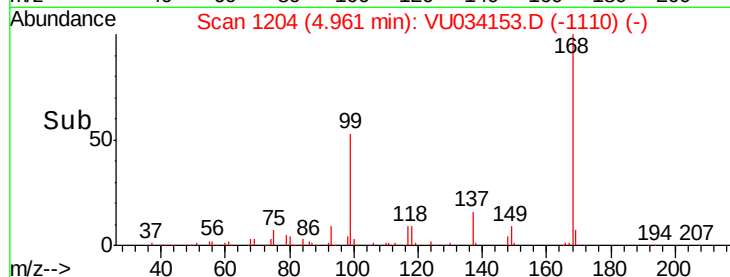
100000

50000

0

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: VU034153.D

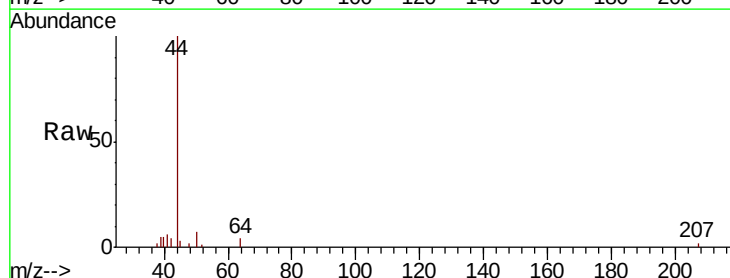
Acq: 01 Sep 2019 04:06

Tgt Ion: 50 Resp: 504

Ion Ratio Lower Upper

50 100

52 21.2 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

600

500

400

300

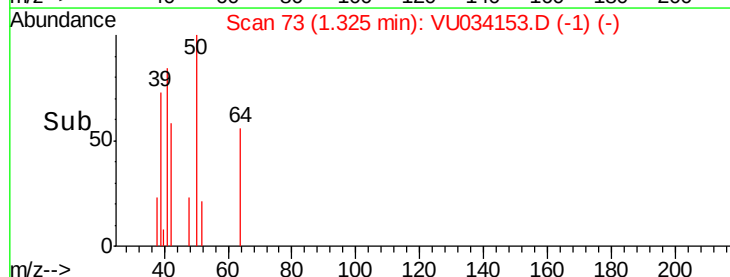
200

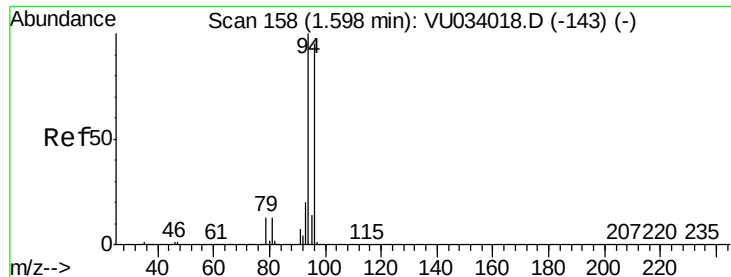
100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 151

Delta R.T. -0.02 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

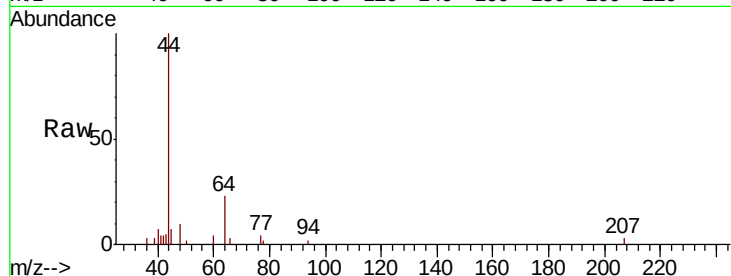
T9-12-13-G3-(0)

Tgt Ion: 94 Resp: 40

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

1.58

100

80

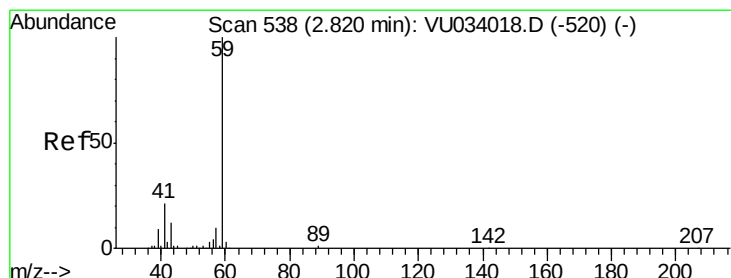
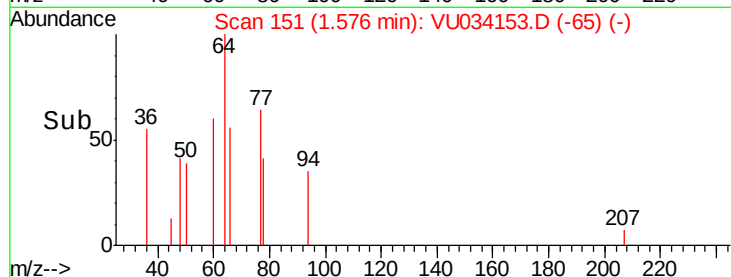
60

40

20

0

Time-->



#11

Tert butyl alcohol

Concen: 2.526 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034153.D

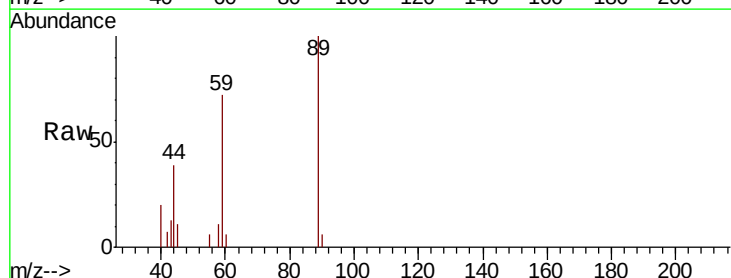
Acq: 01 Sep 2019 04:06

Tgt Ion: 59 Resp: 3354

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

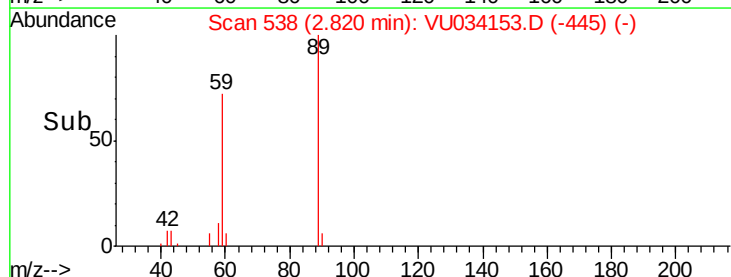
1500

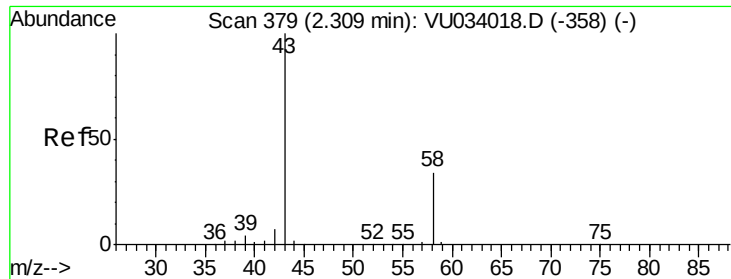
1000

500

0

Time-->





#16

Acetone

Concen: 4.876 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

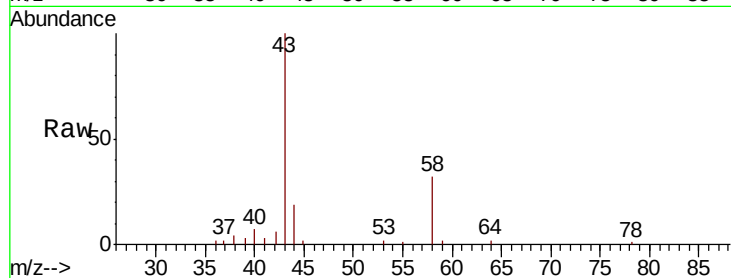
T9-12-13-G3-(0)

Tgt Ion: 43 Resp: 14324

Ion Ratio Lower Upper

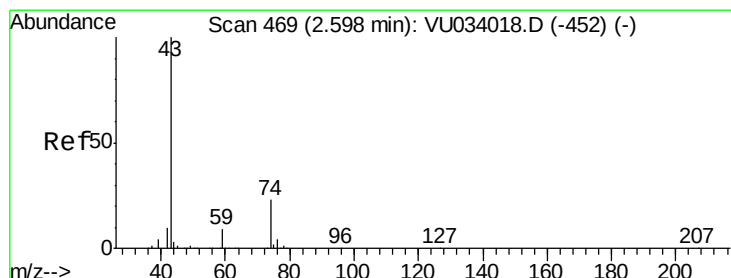
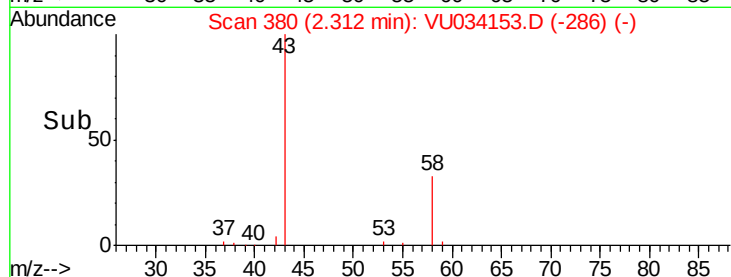
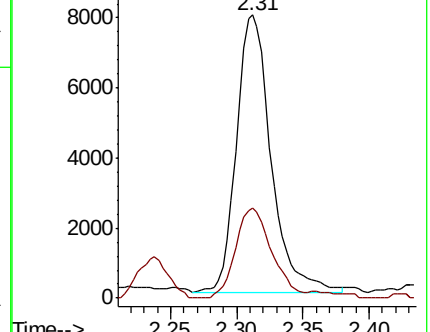
43 100

58 32.6 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034153.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034153.D (-380) (-)



#18

Methyl Acetate

Concen: 0.456 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034153.D

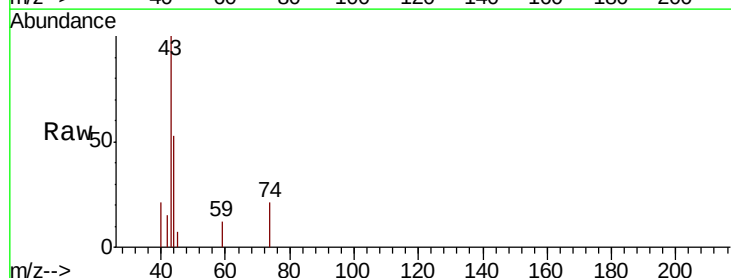
Acq: 01 Sep 2019 04:06

Tgt Ion: 43 Resp: 3462

Ion Ratio Lower Upper

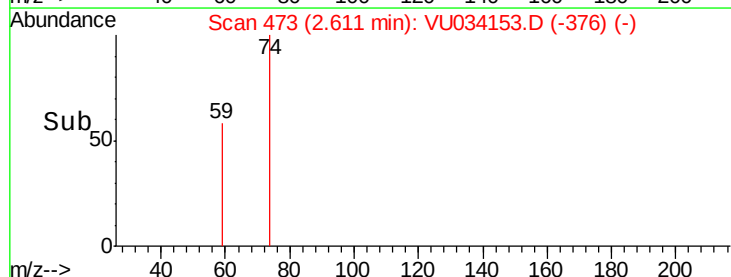
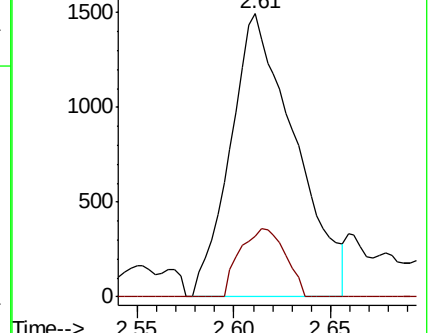
43 100

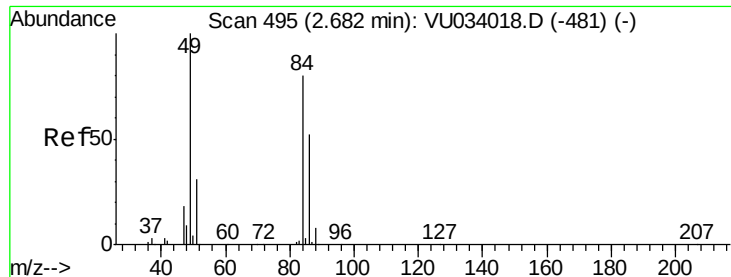
74 17.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034153.D (-473) (-)

Ion 74.00 (73.70 to 74.70): VU034153.D (-473) (-)

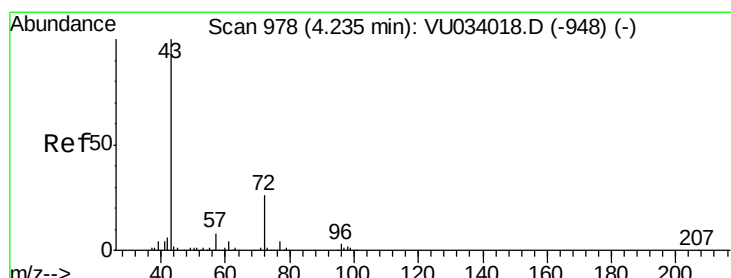
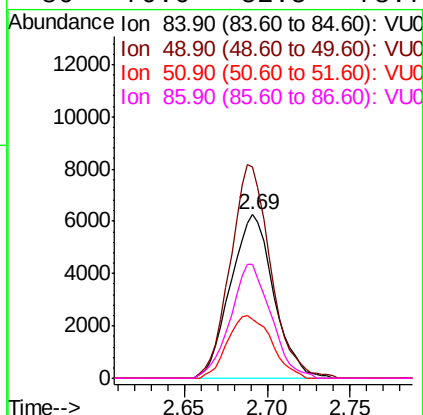
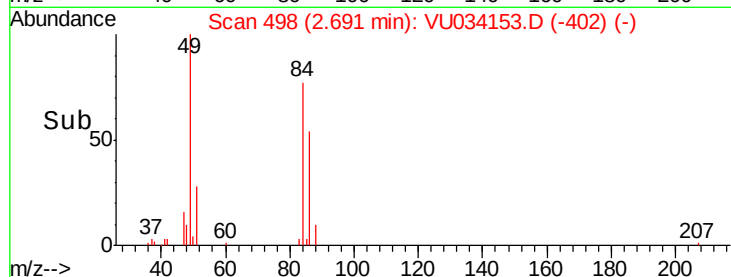
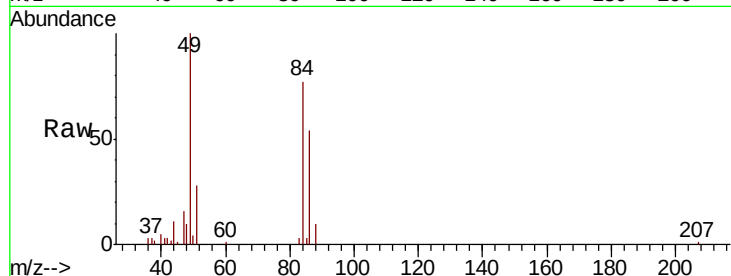




#20
Methylene Chloride
Concen: 2.034 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

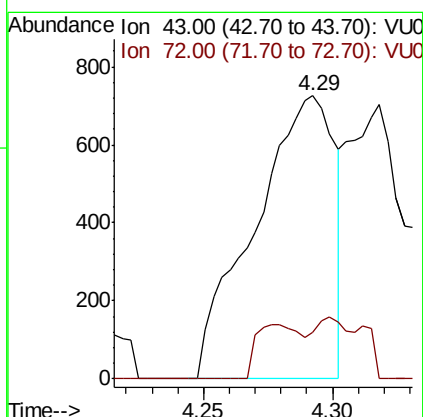
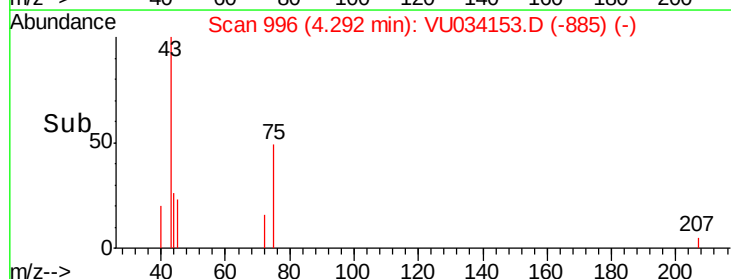
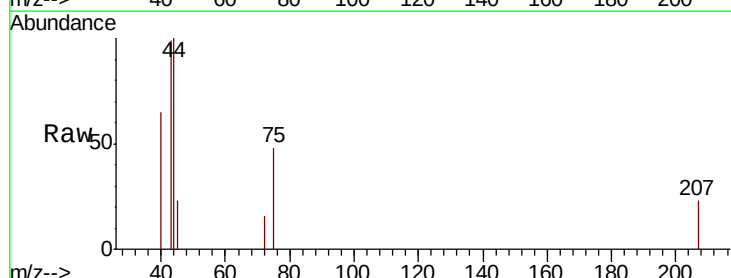
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G3-(0)

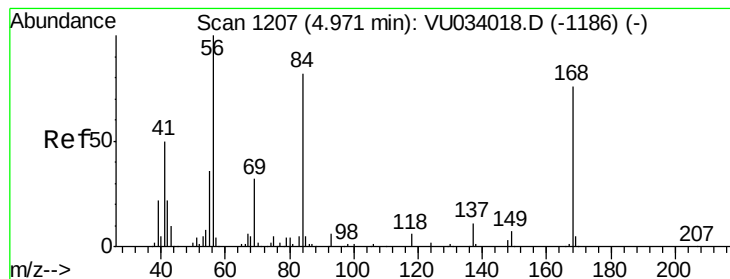
Tgt Ion:	84	Resp:	11314
Ion	Ratio	Lower	Upper
84	100		
49	129.8	100.2	150.4
51	35.7	30.8	46.2
86	70.0	52.5	78.7



#25
2-Butanone
Concen: 0.382 ug/l
RT: 4.29 min Scan# 996
Delta R.T. 0.06 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

Tgt Ion:	43	Resp:	1561
Ion	Ratio	Lower	Upper
43	100		
72	16.3	21.2	31.8#





#31

Cyclohexane

Concen: 0.944 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G3-(0)

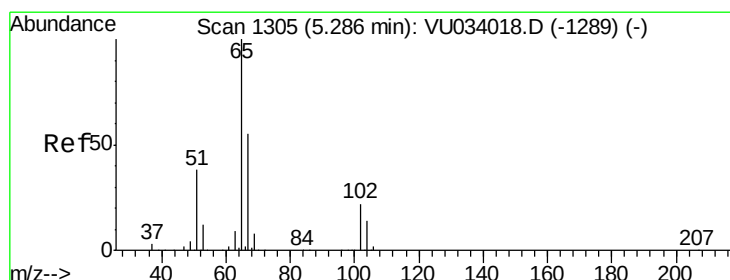
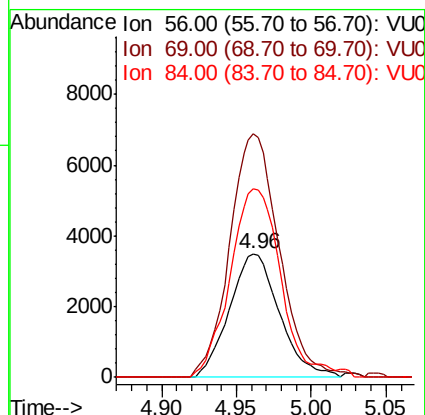
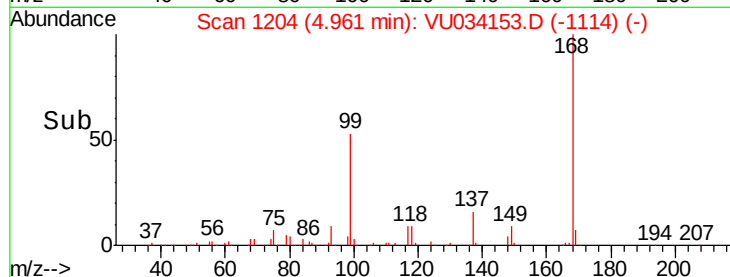
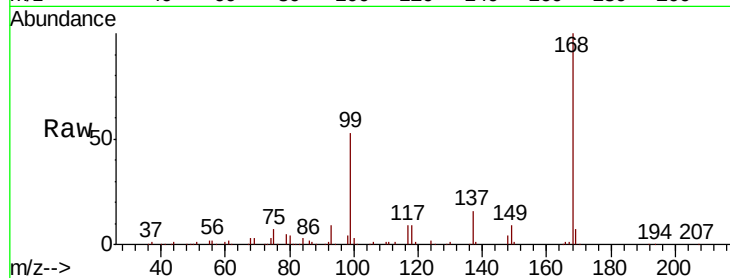
Tgt Ion: 56 Resp: 8117

Ion Ratio Lower Upper

56 100

69 196.6 25.4 38.0#

84 152.5 65.8 98.8#



#33

1,2-Dichloroethane-d4

Concen: 49.561 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034153.D

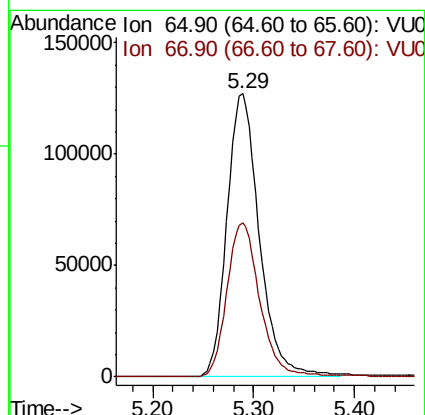
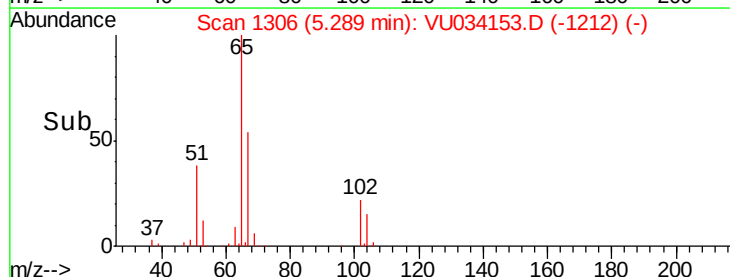
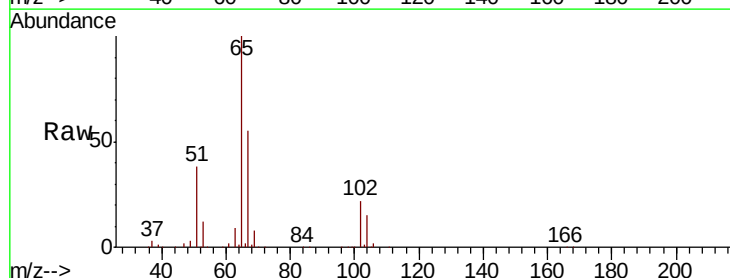
Acq: 01 Sep 2019 04:06

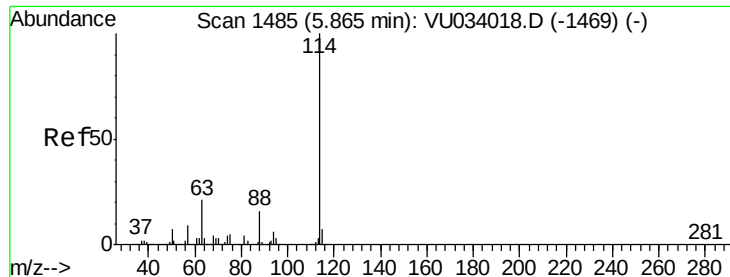
Tgt Ion: 65 Resp: 285360

Ion Ratio Lower Upper

65 100

67 55.3 0.0 110.6

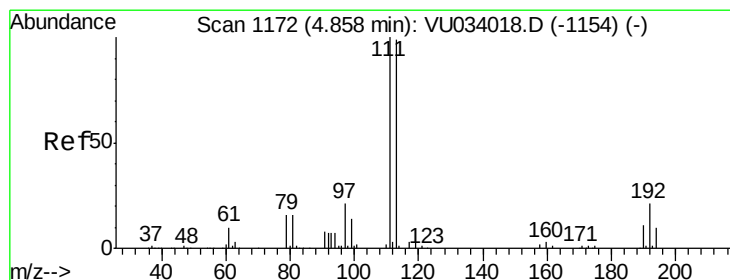
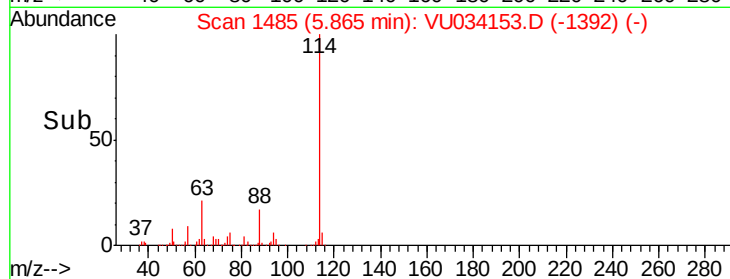
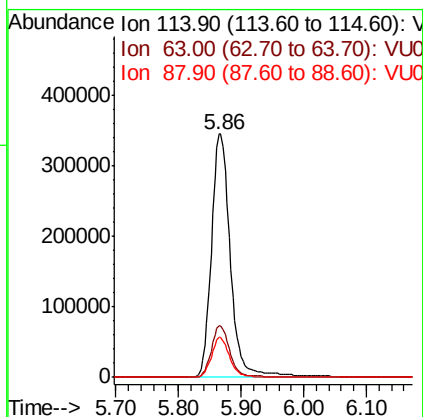
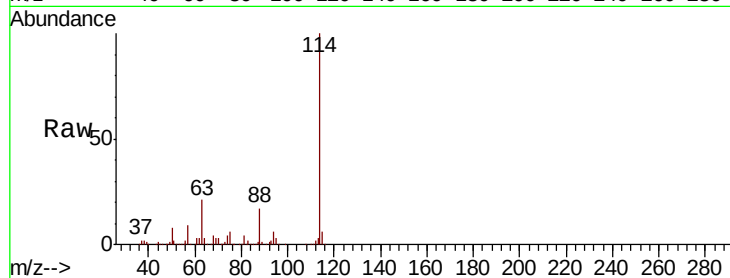




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

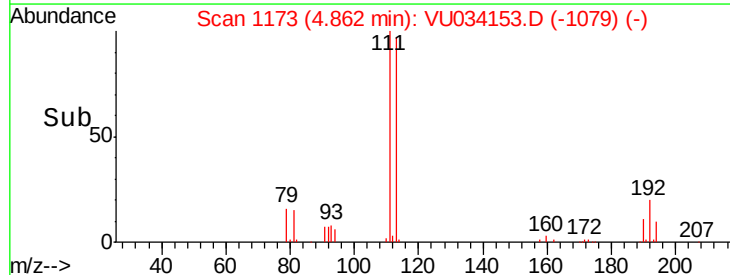
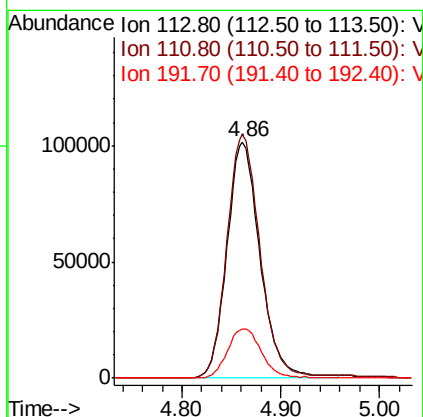
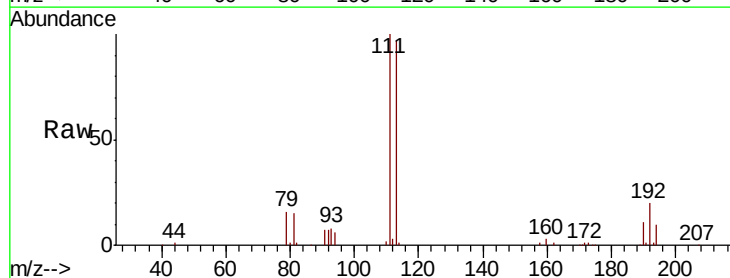
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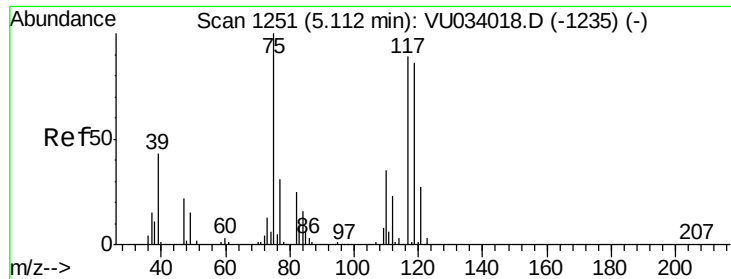
Tgt Ion:114 Resp: 730429
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.0
 88 16.5 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 47.045 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

Tgt Ion:113 Resp: 238339
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.7 122.5
 192 21.6 17.1 25.7

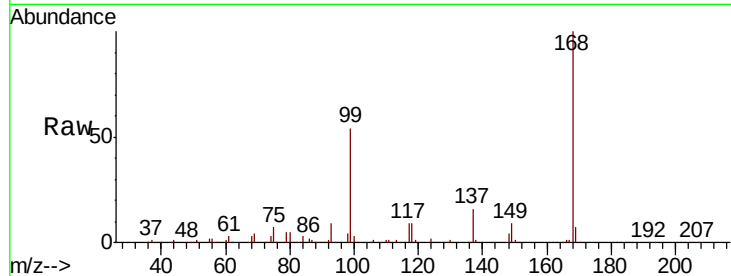




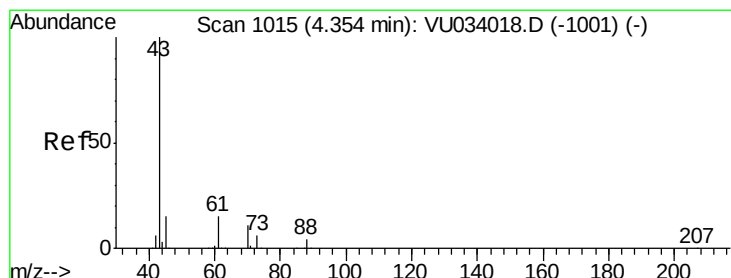
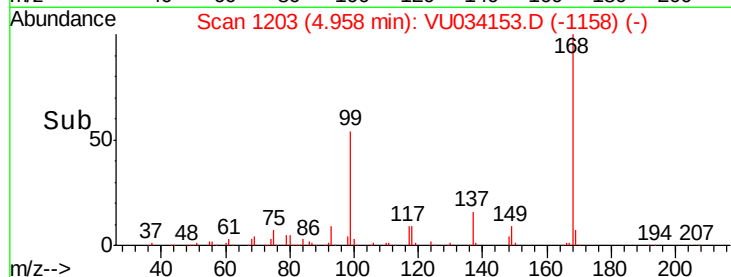
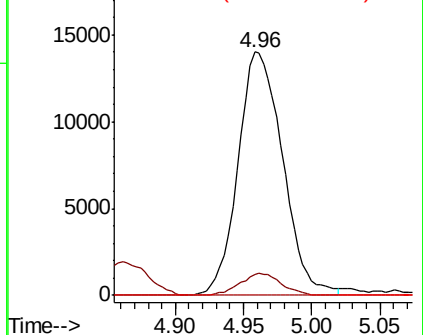
#36
 1,1-Dichloropropene
 Concen: 4.611 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G3-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.8	53.5#
77	0.0	25.0	37.4#

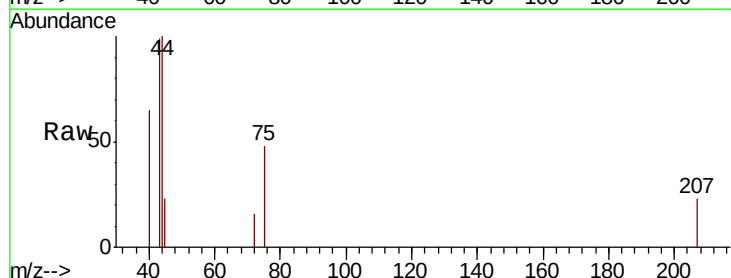


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0

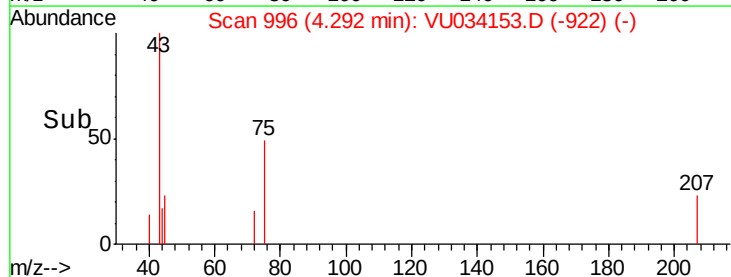
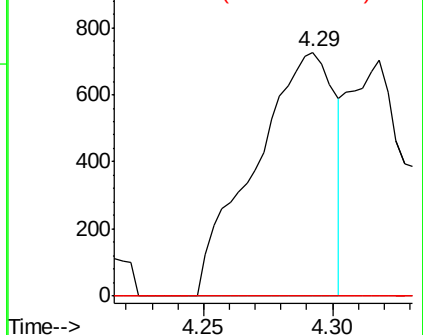


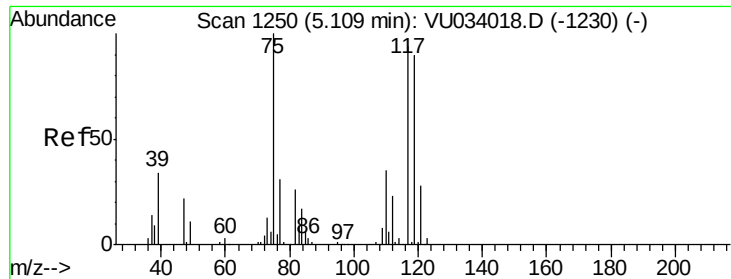
#37
 Ethyl Acetate
 Concen: 0.202 ug/l
 RT: 4.29 min Scan# 996
 Delta R.T. -0.06 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	8.6	12.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 6.093 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G3-(0)

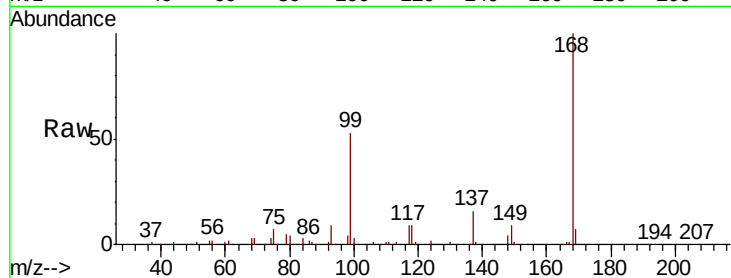
Tgt Ion: 117 Resp: 40632

Ion Ratio Lower Upper

117 100

119 6.0 77.0 115.4#

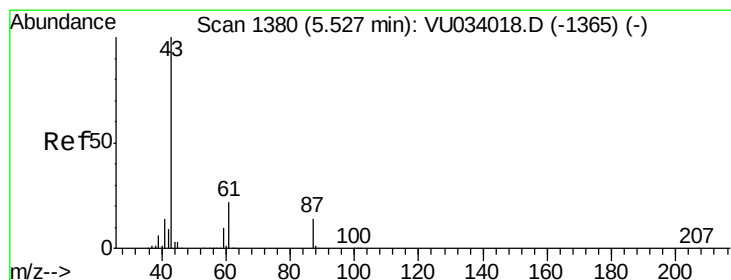
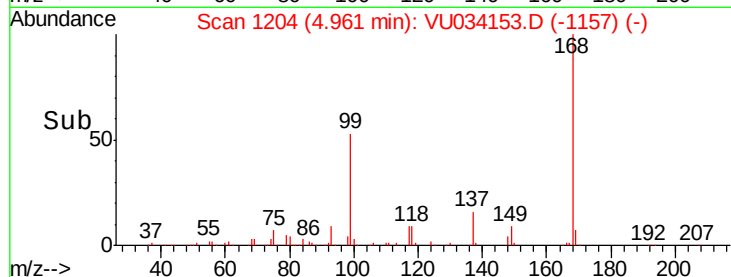
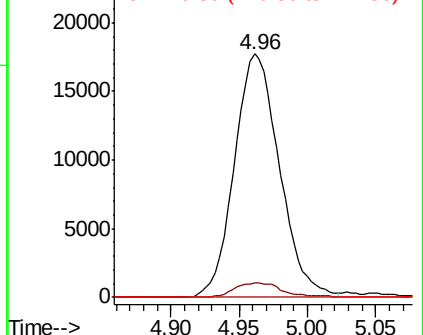
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.448 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

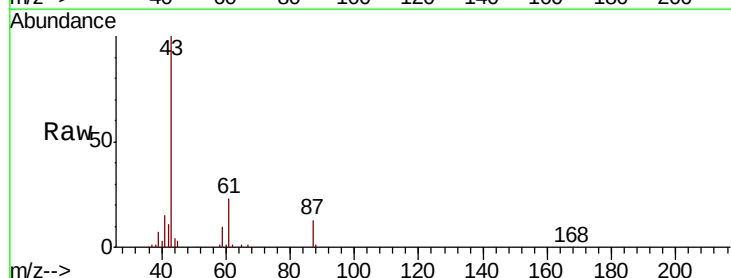
Tgt Ion: 43 Resp: 75899

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

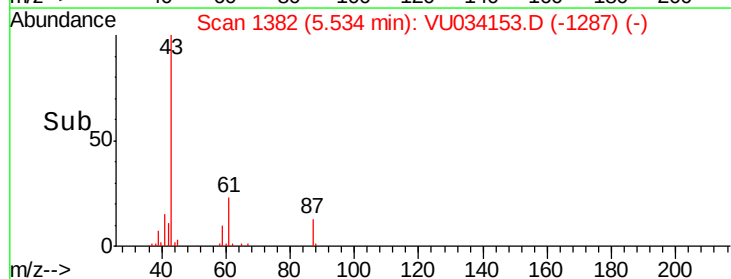
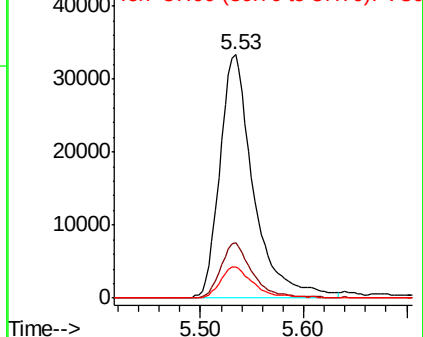
87 12.6 10.8 16.2

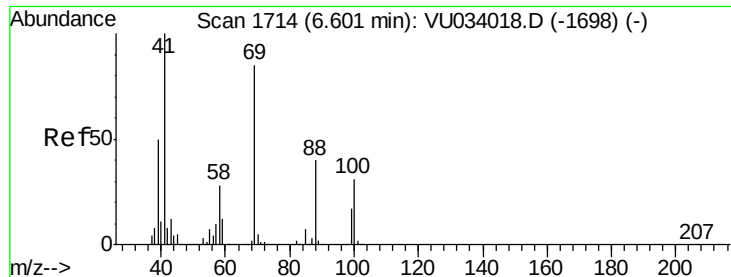


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

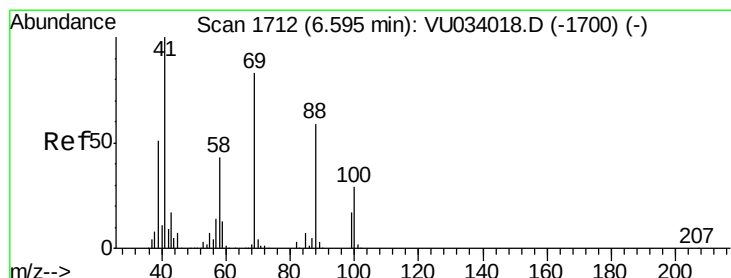
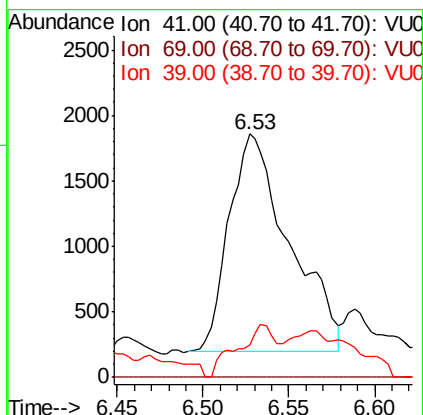
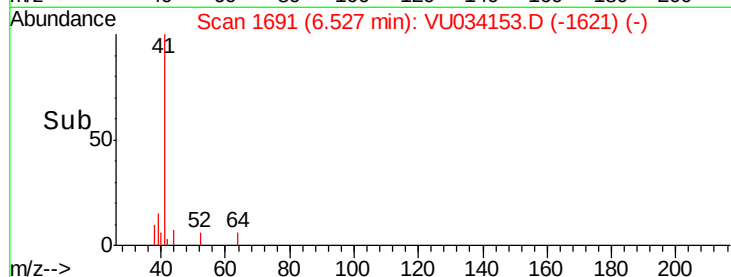
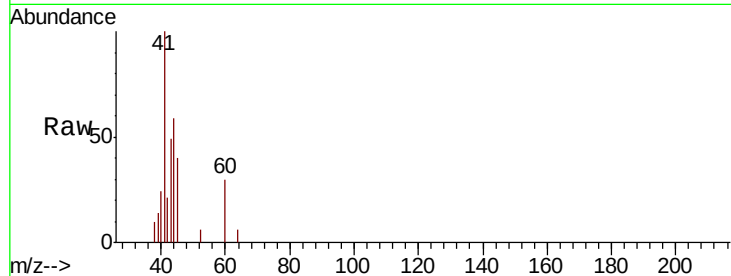




#48
Methyl methacrylate
Concen: 0.713 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

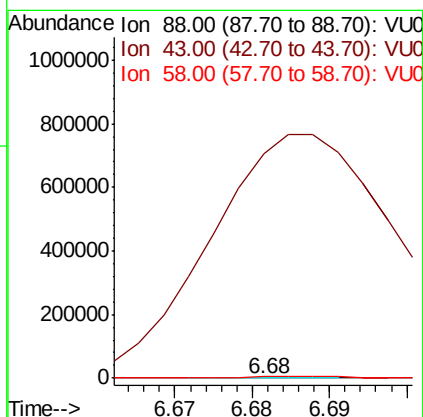
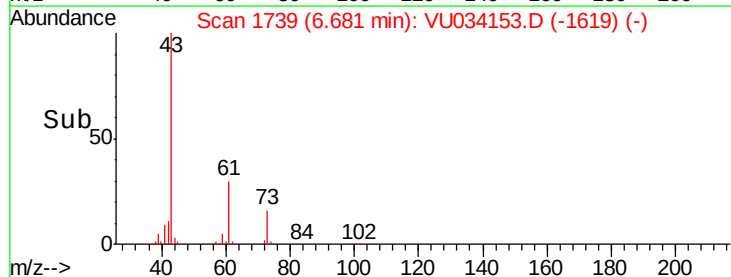
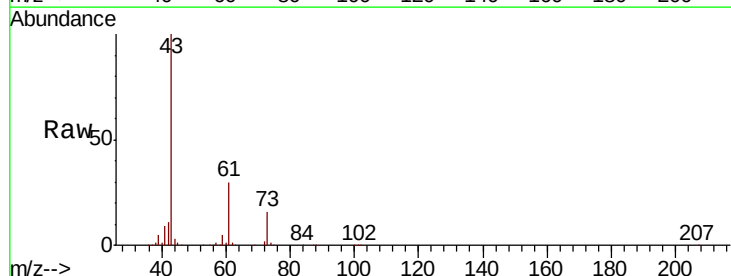
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G3-(0)

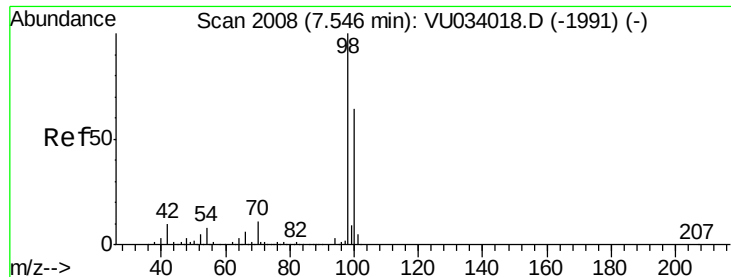
Tgt Ion: 41 Resp: 4047
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.555 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

Tgt Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 1807259.5 24.8 37.2#
58 9057.0 59.3 88.9#

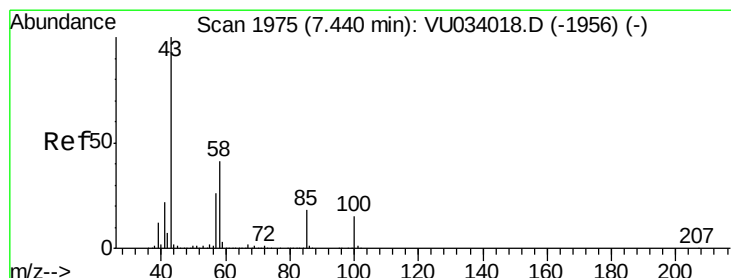
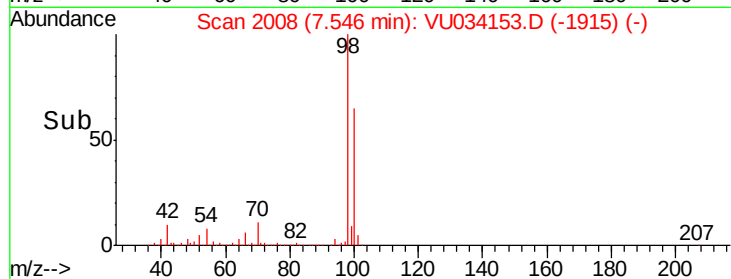
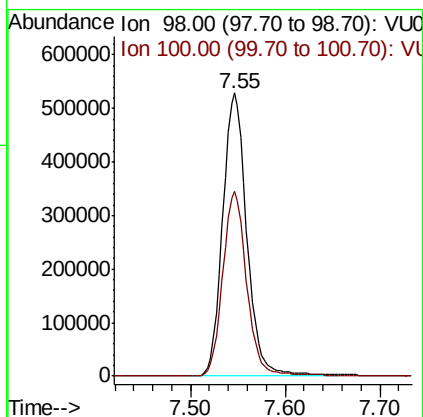
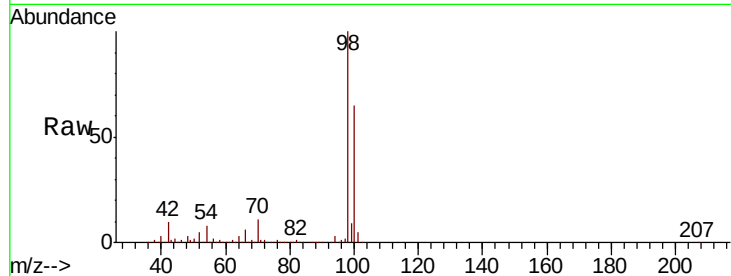




#50
Toluene-d8
Concen: 49.689 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

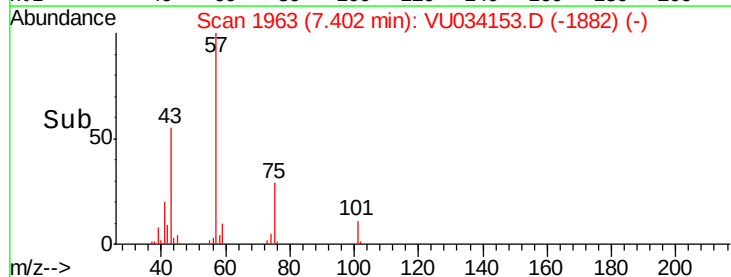
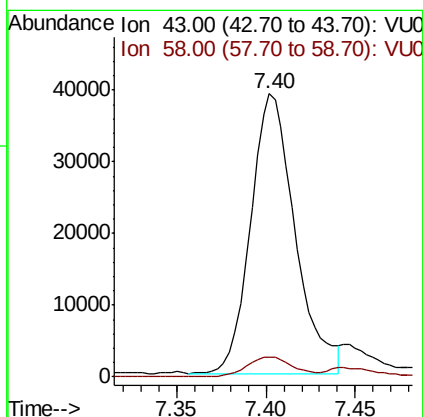
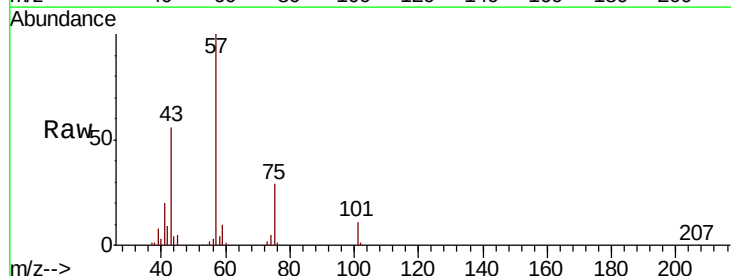
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G3-(0)

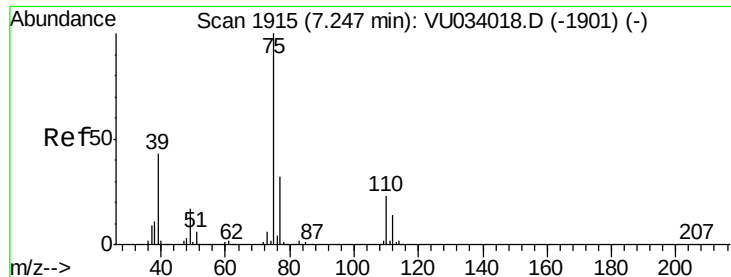
Tgt Ion: 98 Resp: 942586
Ion Ratio Lower Upper
98 100
100 64.4 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 8.325 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034153.D
Acq: 01 Sep 2019 04:06

Tgt Ion: 43 Resp: 67669
Ion Ratio Lower Upper
43 100
58 7.4 32.2 48.4#

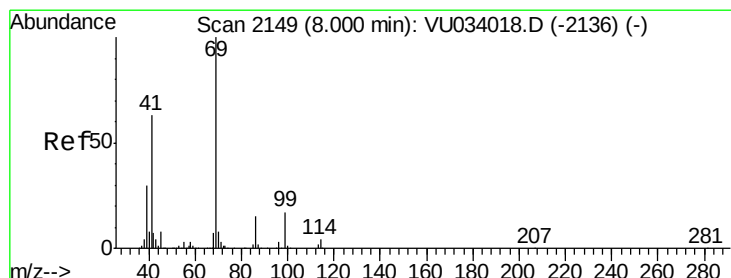
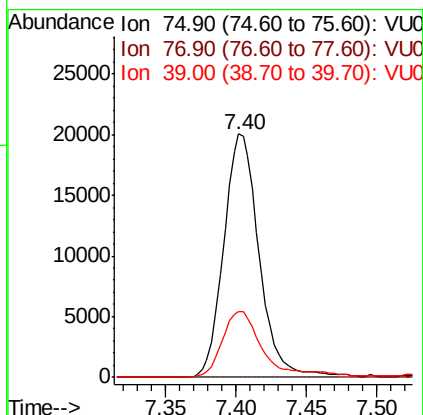
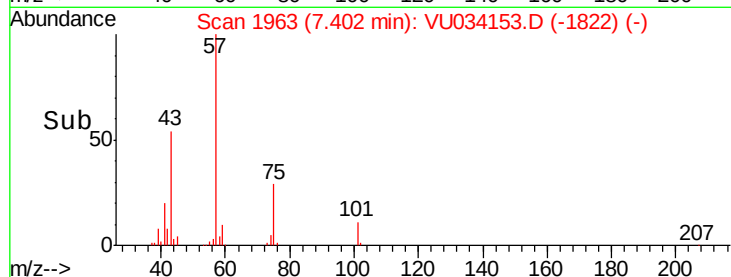
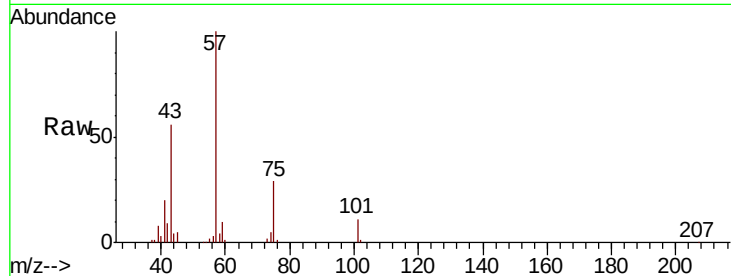




#54
 cis-1,3-Dichloropropene
 Concen: 3.978 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

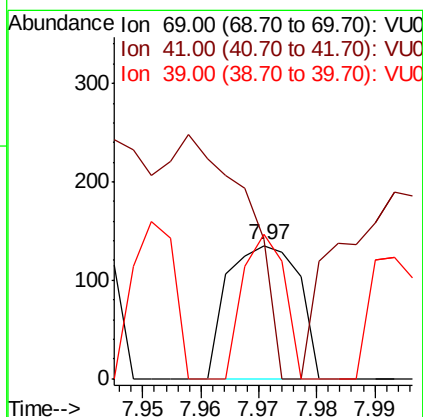
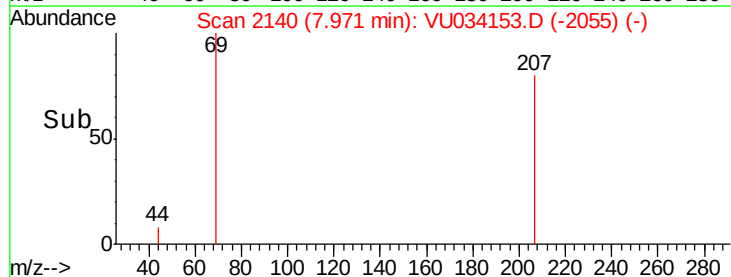
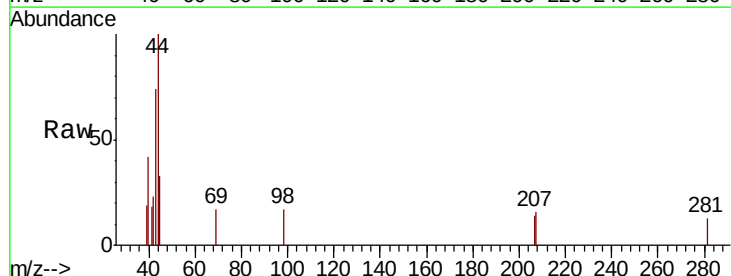
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G3-(0)

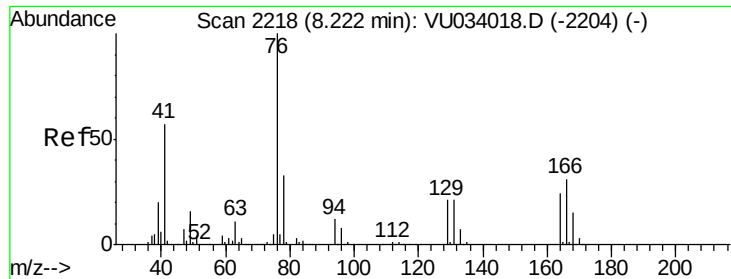
Tgt Ion: 75 Resp: 34974
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 27.1 34.6 51.8#



#56
 Ethyl methacrylate
 Concen: 0.984 ug/l
 RT: 7.97 min Scan# 2140
 Delta R.T. -0.03 min
 Lab File: VU034153.D
 Acq: 01 Sep 2019 04:06

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#





#57

1,3-Dichloropropane

Concen: 0.699 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

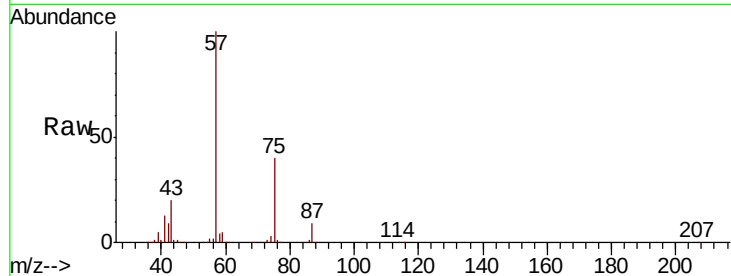
T9-12-13-G3-(0)

Tgt Ion: 76 Resp: 6465

Ion Ratio Lower Upper

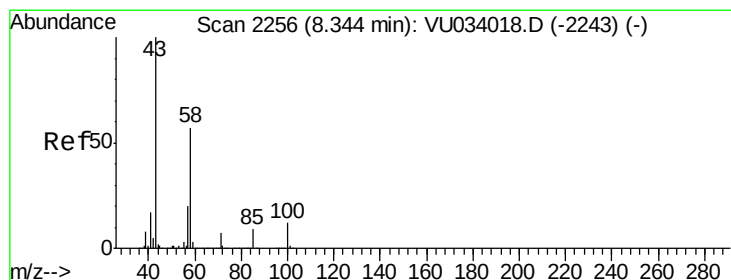
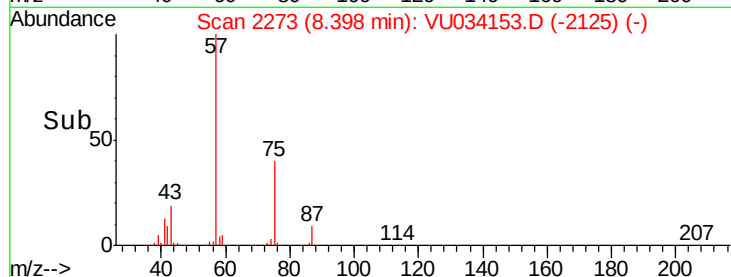
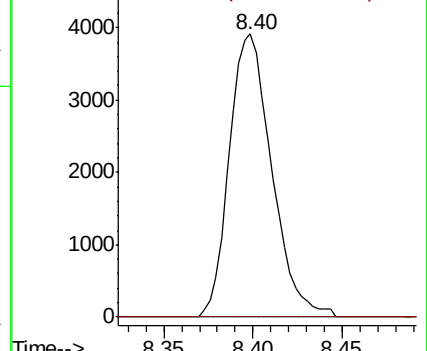
76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 12.803 ug/l

RT: 8.29 min Scan# 2240

Delta R.T. -0.05 min

Lab File: VU034153.D

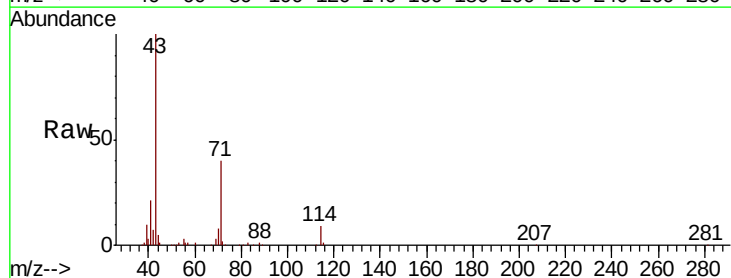
Acq: 01 Sep 2019 04:06

Tgt Ion: 43 Resp: 78567

Ion Ratio Lower Upper

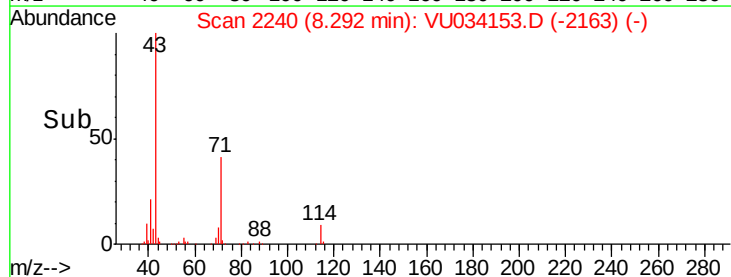
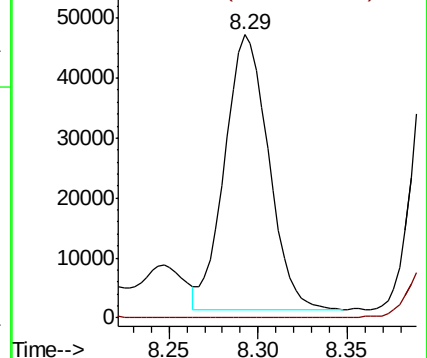
43 100

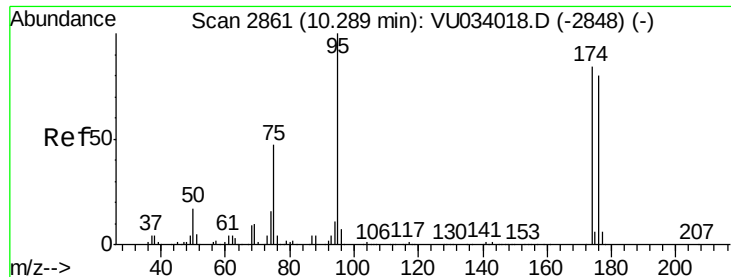
58 0.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 44.738 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G3-(0)

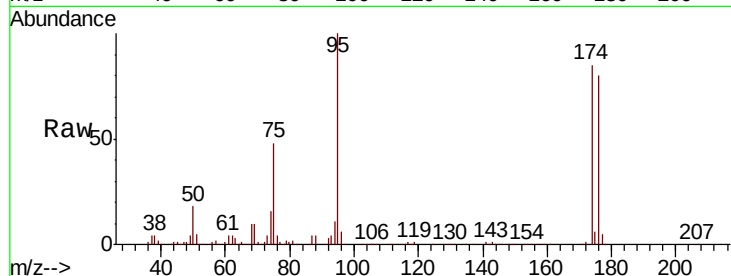
Tgt Ion: 95 Resp: 330123

Ion Ratio Lower Upper

95 100

174 84.9 0.0 168.8

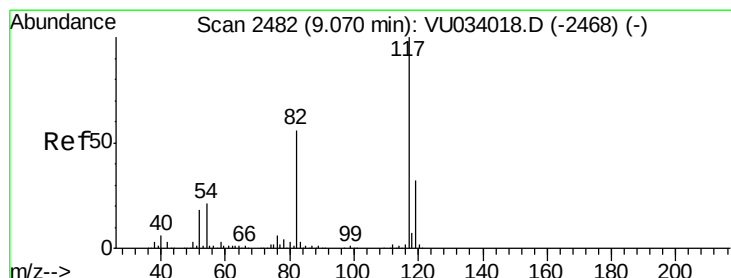
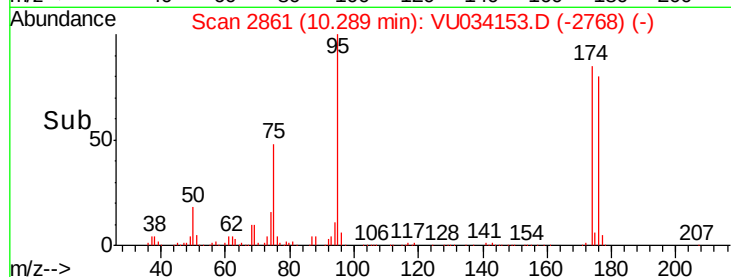
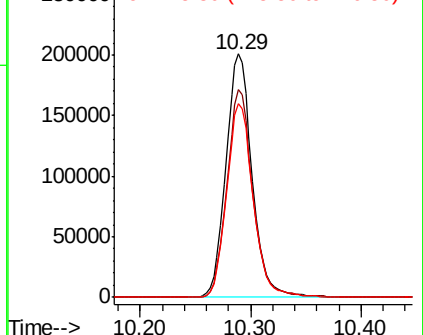
176 80.8 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

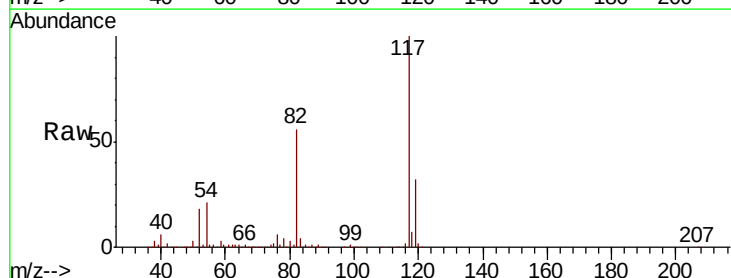
Tgt Ion: 117 Resp: 719567

Ion Ratio Lower Upper

117 100

82 56.4 45.1 67.7

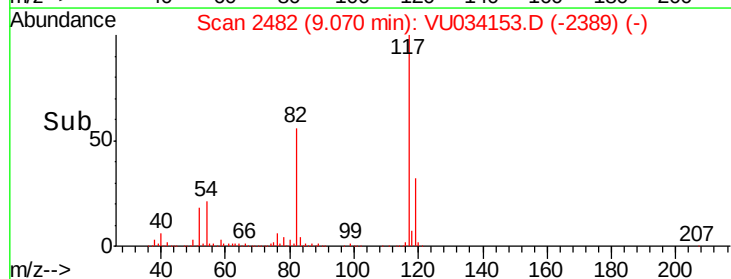
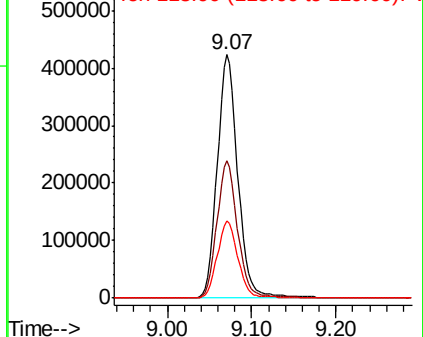
119 31.5 25.4 38.0

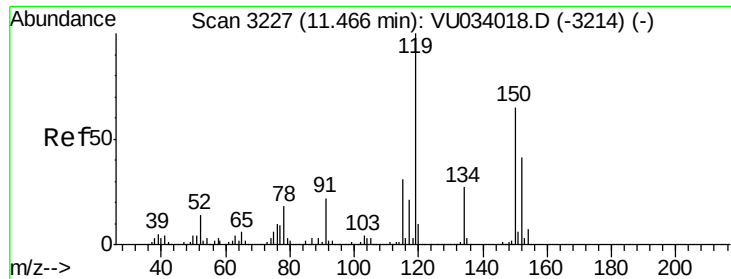


Abundance Ion 116.90 (116.60 to 117.60): V

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: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G3-(0)

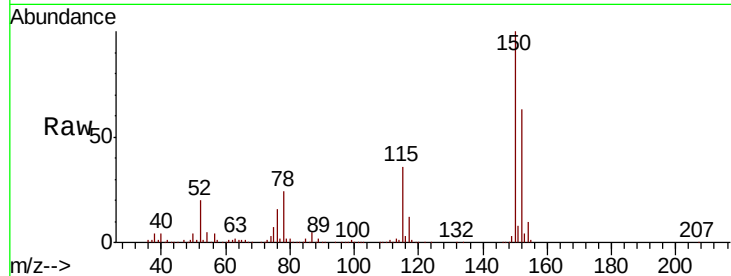
Tgt Ion:152 Resp: 349364

Ion Ratio Lower Upper

152 100

115 57.1 41.1 123.3

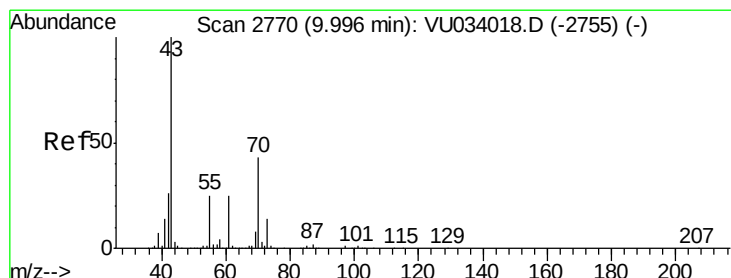
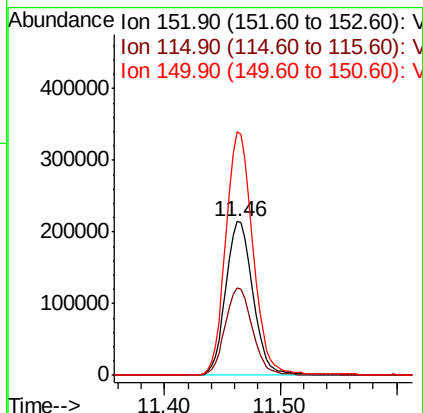
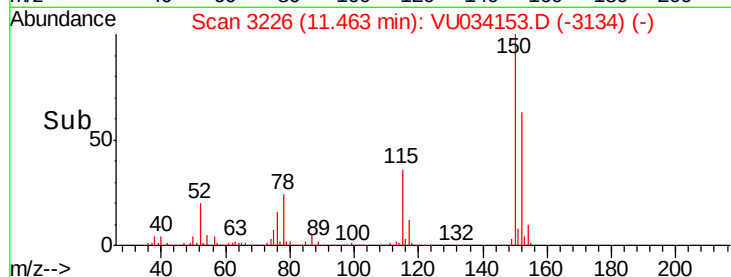
150 158.0 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-amyl acetate

Concen: 0.281 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Tgt Ion: 43 Resp: 2772

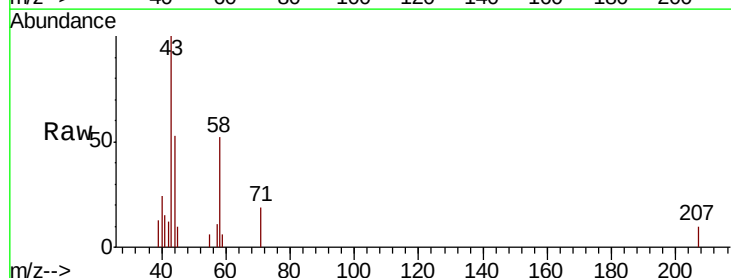
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 5.7 20.5 30.7#

61 0.0 20.0 30.0#

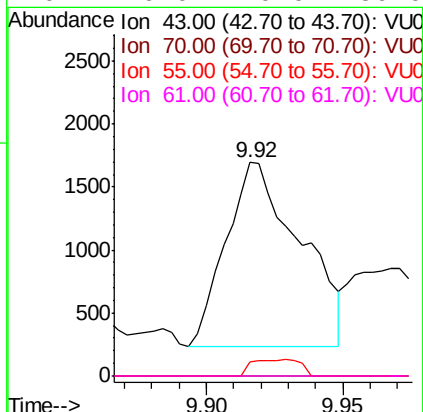
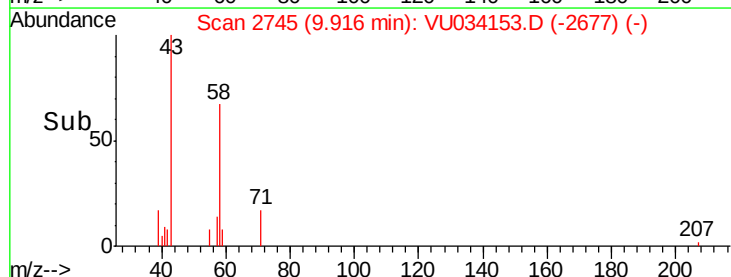


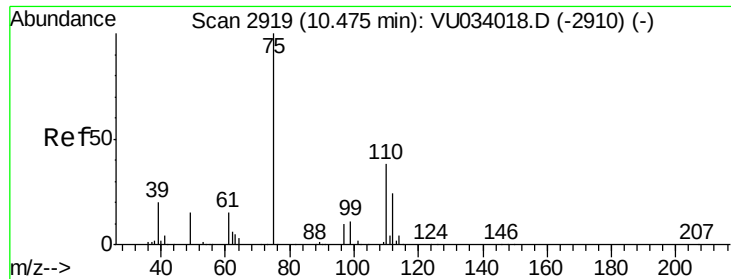
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 20.031 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

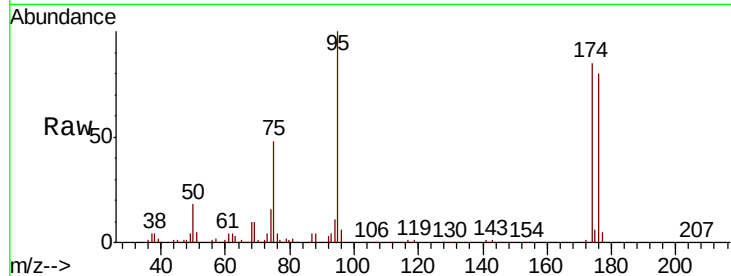
T9-12-13-G3-(0)

Tgt Ion: 75 Resp: 157728

Ion Ratio Lower Upper

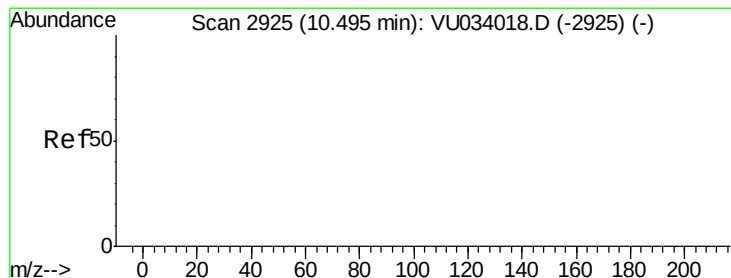
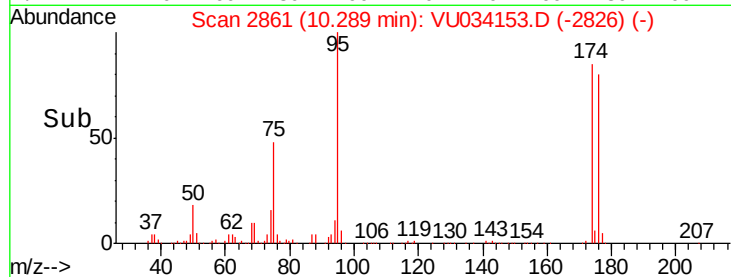
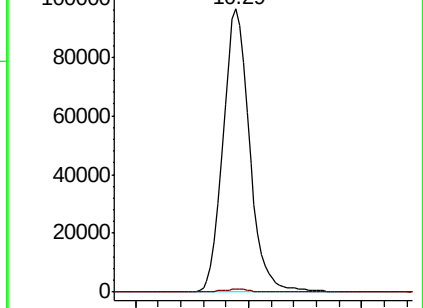
75 100

77 1.2 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: 67.450 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034153.D

Acq: 01 Sep 2019 04:06

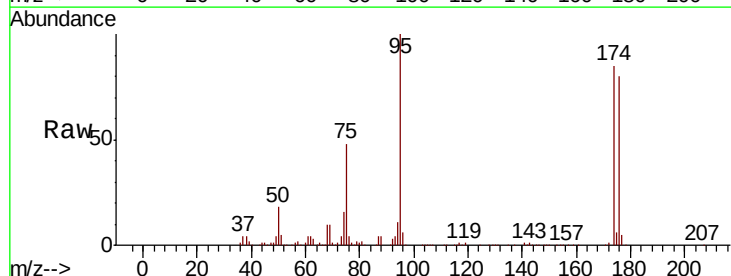
Tgt Ion: 75 Resp: 157728

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

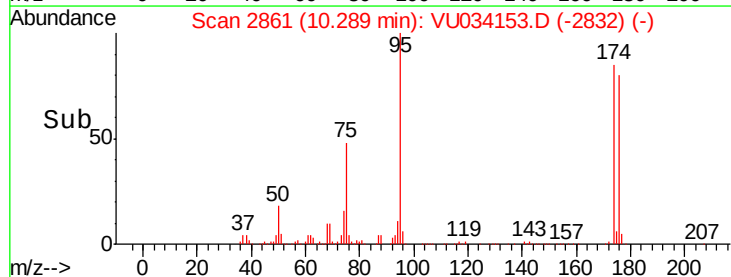
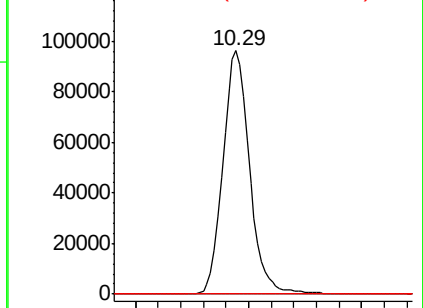
89 0.0 0.0 0.0

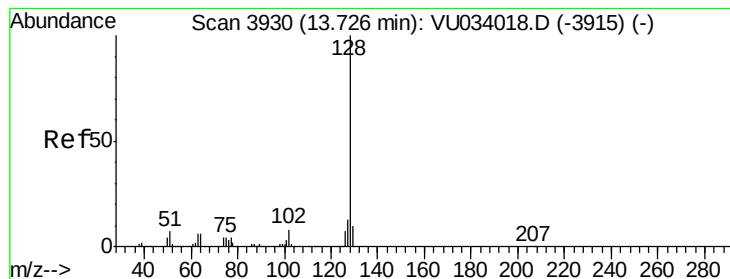


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.80 min Scan# 3953

Delta R.T. 0.07 min

Lab File: VU034153.D

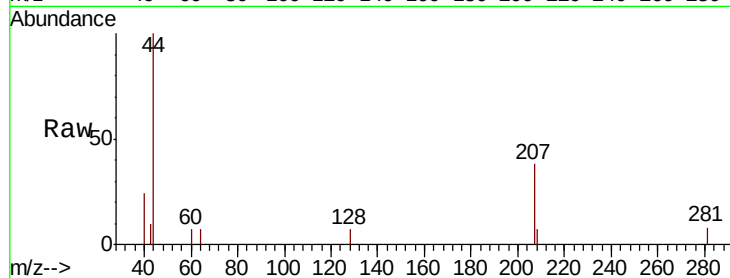
Acq: 01 Sep 2019 04:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G3-(0)



Tgt Ion:	128	Resp:	21
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

