

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034154.D
 Acq On : 01 Sep 2019 04:29
 Operator : JC/SP
 Sample : K4526-37
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G1-(1.9)

Quant Time: Sep 01 06:02:53 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	456802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	740208	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	735706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	355227	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	290308	49.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.20%	
35) Dibromofluoromethane	4.86	113	244196	47.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.12%	
50) Toluene-d8	7.55	98	955447	49.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	10.29	95	339577	45.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.82%	

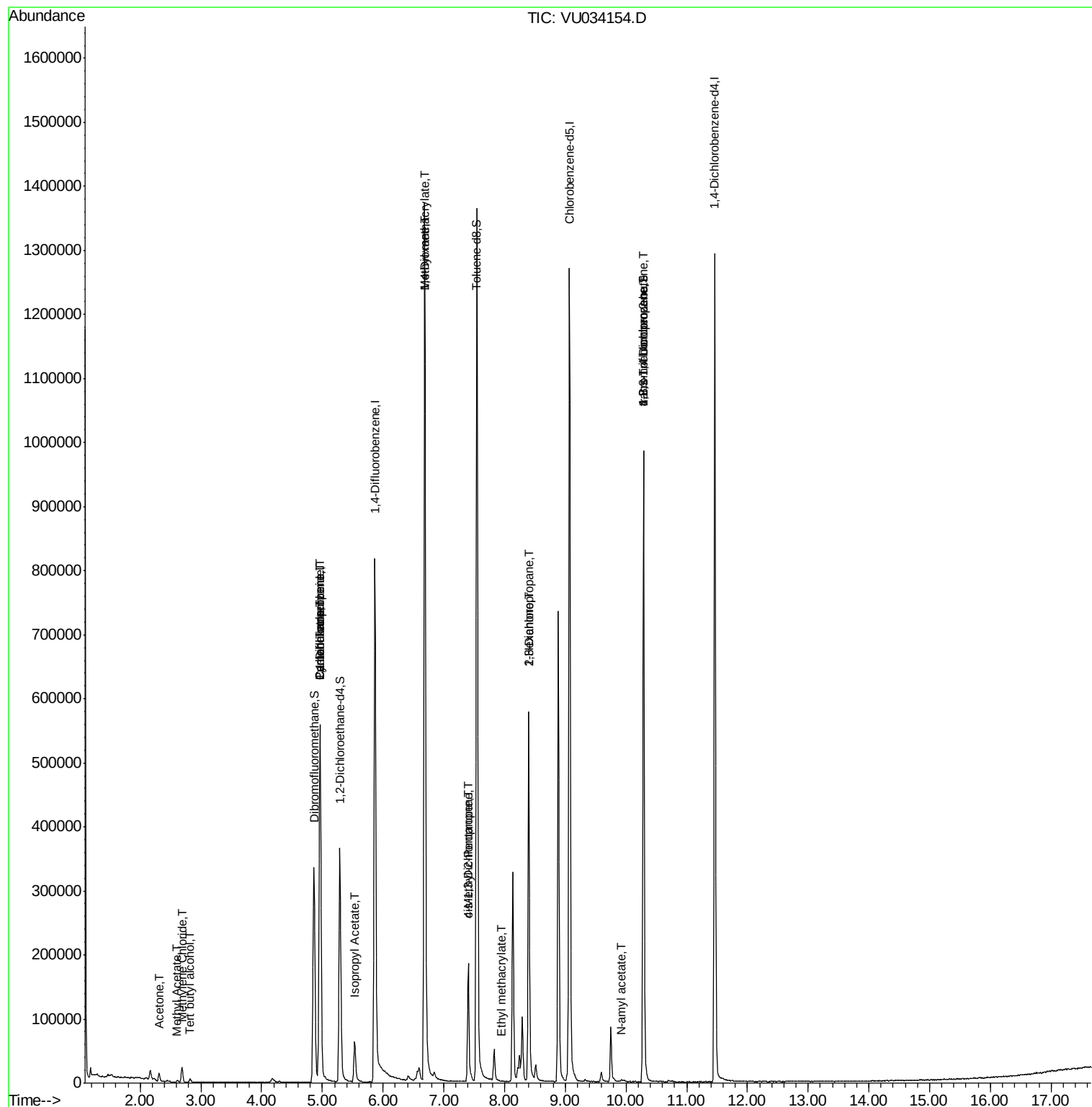
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	380	Below Cal		90
5) Bromomethane	1.63	94	506	Below Cal		99
11) Tert butyl alcohol	2.83	59	3392	2.513	ug/l #	73
16) Acetone	2.31	43	14977	5.015	ug/l	96
18) Methyl Acetate	2.61	43	3600	0.466	ug/l #	88
20) Methylene Chloride	2.69	84	10683	1.889	ug/l	95
31) Cyclohexane	4.96	56	8485	0.971	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32987	4.711	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40594	6.007	ug/l #	17
43) Isopropyl Acetate	5.53	43	75636	6.341	ug/l	99
48) Methyl methacrylate	6.69	41	124277	21.592	ug/l #	39
49) 1,4-Dioxane	6.69	88	95	0.659	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	72193	8.764	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	34018	3.818	ug/l #	65
56) Ethyl methacrylate	7.96	69	172	0.990	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6247	0.667	ug/l #	42
59) 2-Hexanone	8.40	43	79259	12.746	ug/l #	53
74) N-amyl acetate	9.92	43	3112	0.310	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	163508	20.423	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	163508	68.768	ug/l #	100

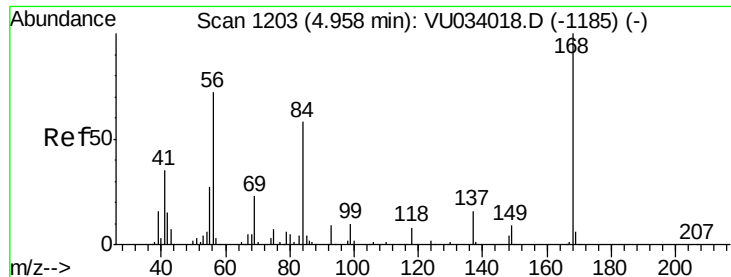
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

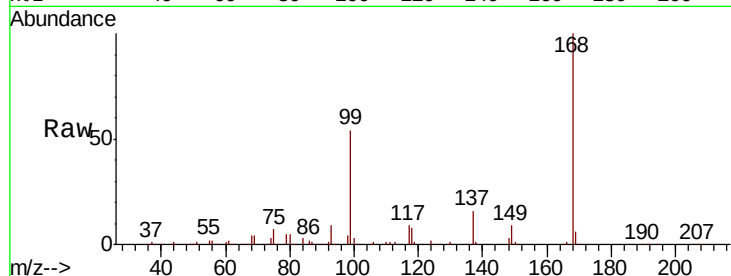
T9-12-13-G1-(1.9)

Tgt Ion:168 Resp: 456802

Ion Ratio Lower Upper

168 100

99 54.3 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

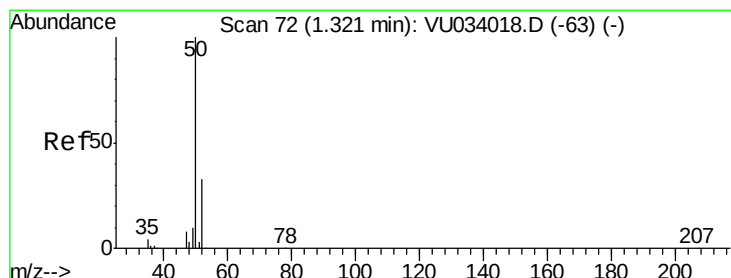
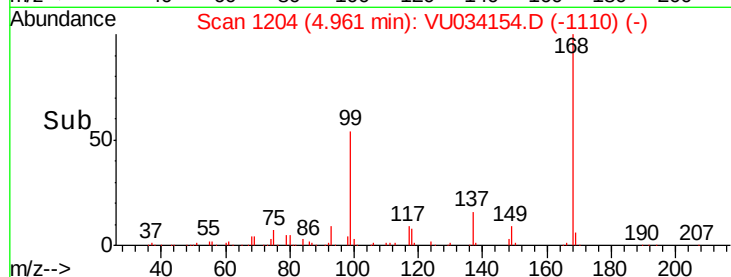
100000

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: VU034154.D

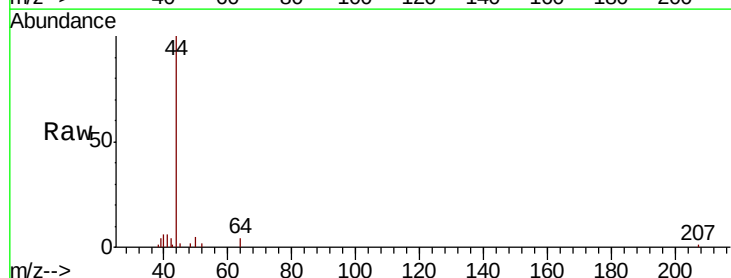
Acq: 01 Sep 2019 04:29

Tgt Ion: 50 Resp: 380

Ion Ratio Lower Upper

50 100

52 38.3 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

500

400

300

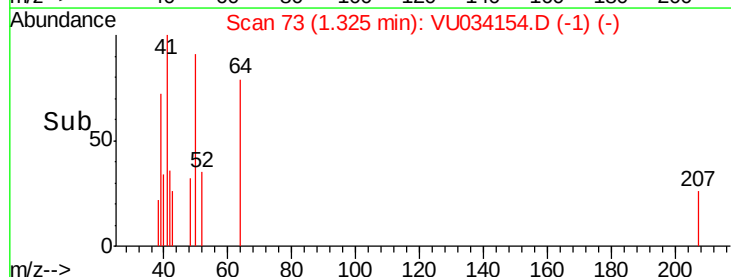
200

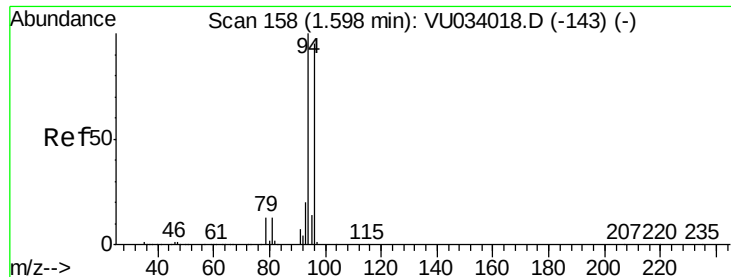
100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

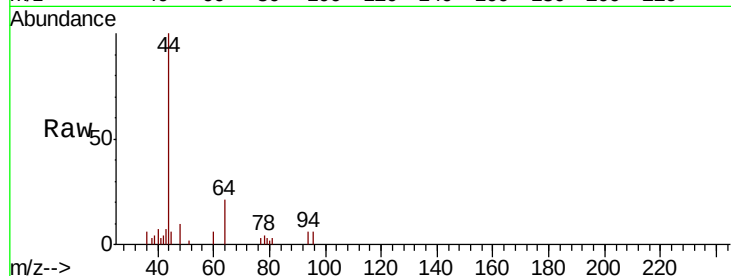
T9-12-13-G1-(1.9)

Tgt Ion: 94 Resp: 506

Ion Ratio Lower Upper

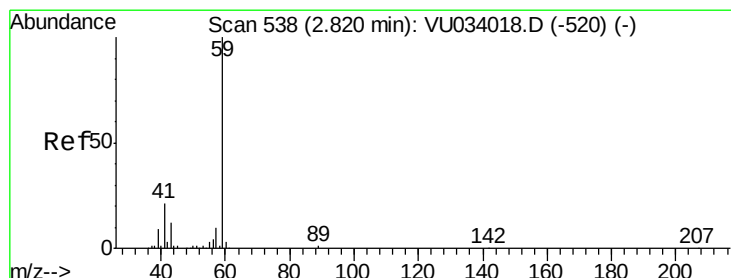
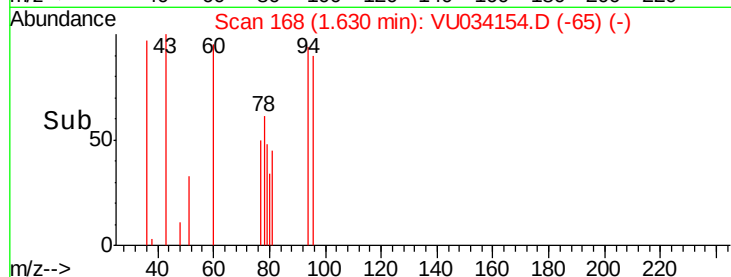
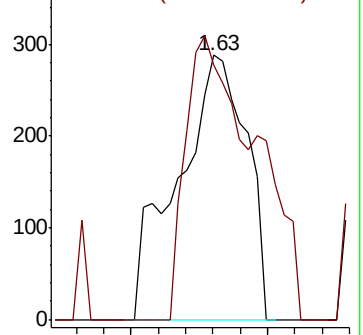
94 100

96 96.5 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: 2.513 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034154.D

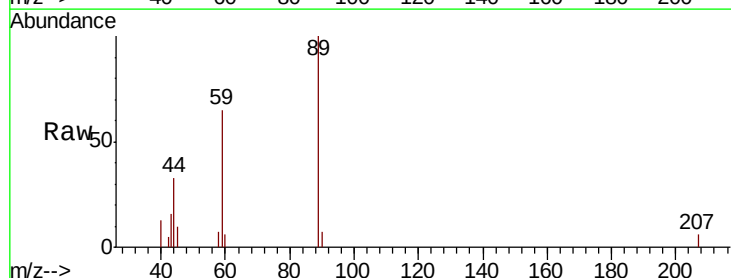
Acq: 01 Sep 2019 04:29

Tgt Ion: 59 Resp: 3392

Ion Ratio Lower Upper

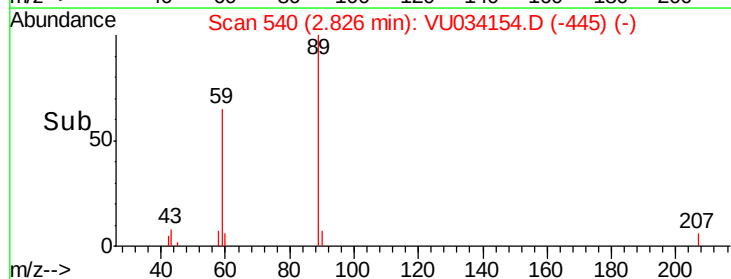
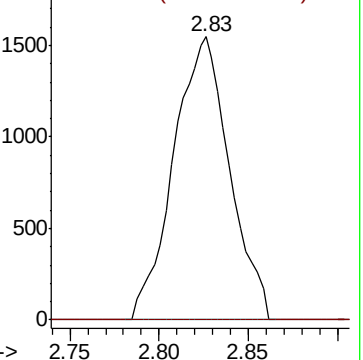
59 100

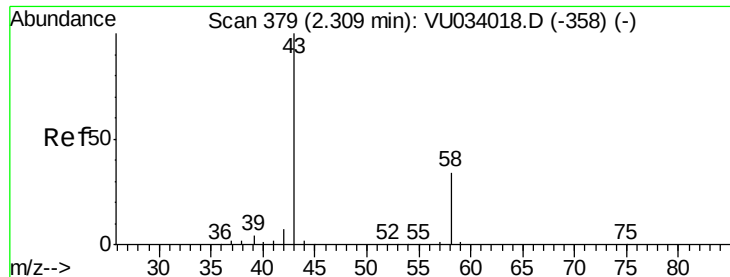
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 5.015 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

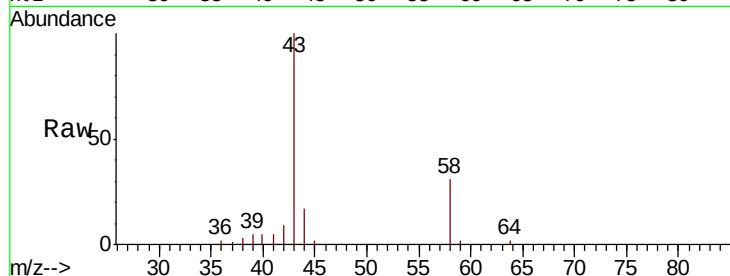
T9-12-13-G1-(1.9)

Tgt Ion: 43 Resp: 14977

Ion Ratio Lower Upper

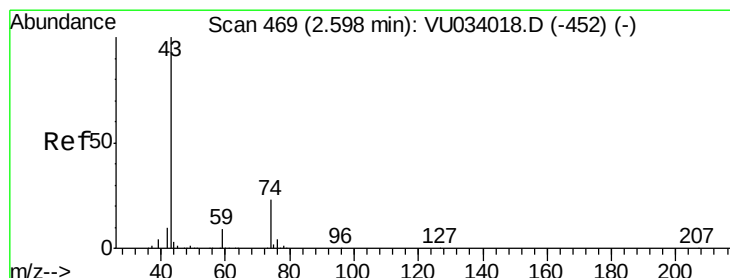
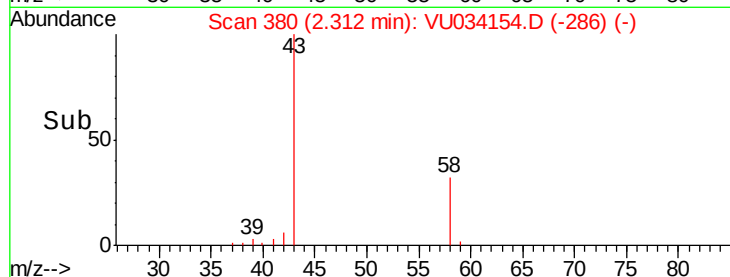
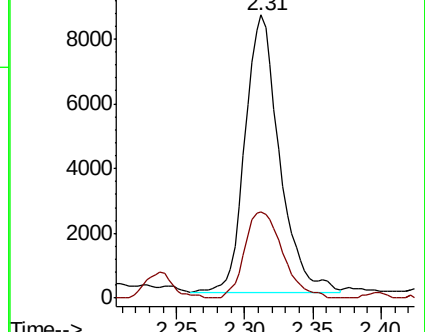
43 100

58 31.2 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034154.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034154.D (-380) (-)



#18

Methyl Acetate

Concen: 0.466 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034154.D

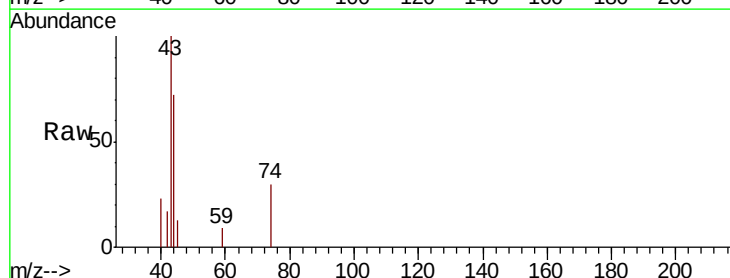
Acq: 01 Sep 2019 04:29

Tgt Ion: 43 Resp: 3600

Ion Ratio Lower Upper

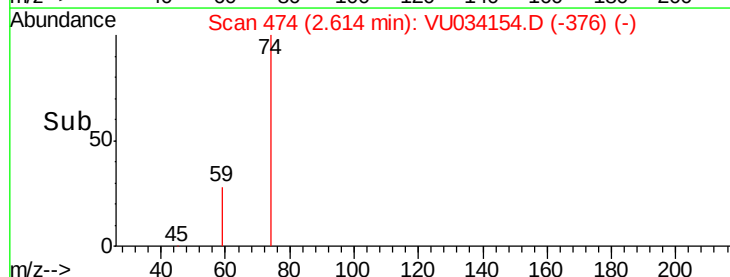
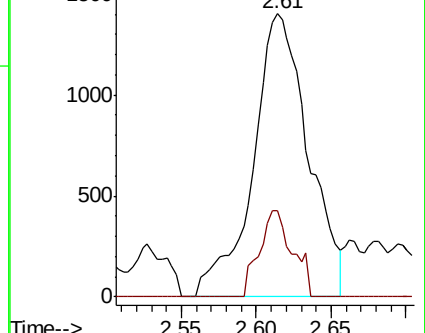
43 100

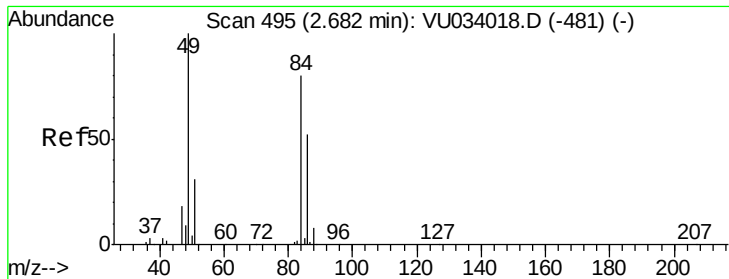
74 18.3 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034154.D (-474) (-)

Ion 74.00 (73.70 to 74.70): VU034154.D (-474) (-)

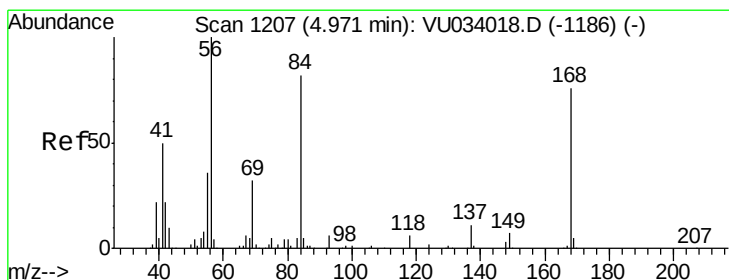
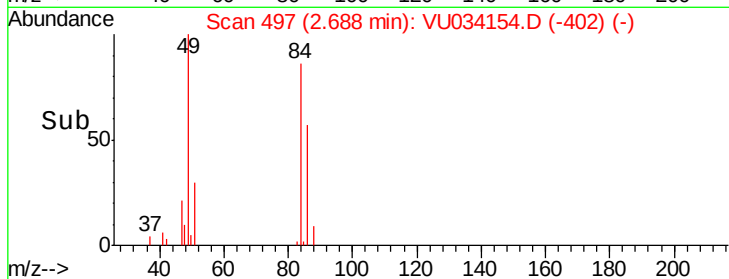
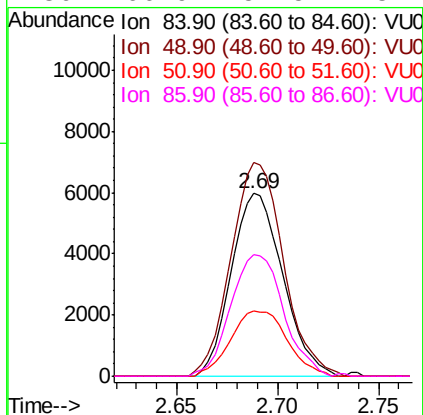
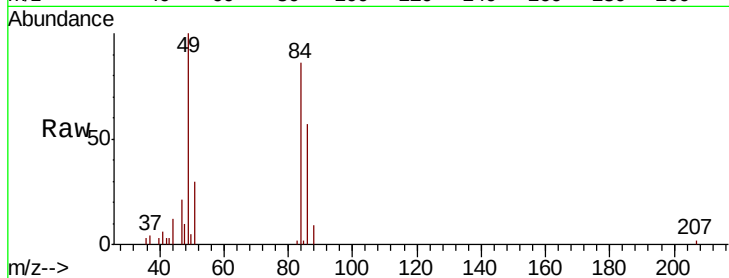




#20
Methylene Chloride
Concen: 1.889 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

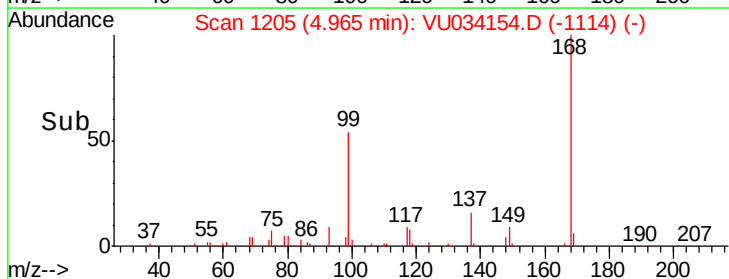
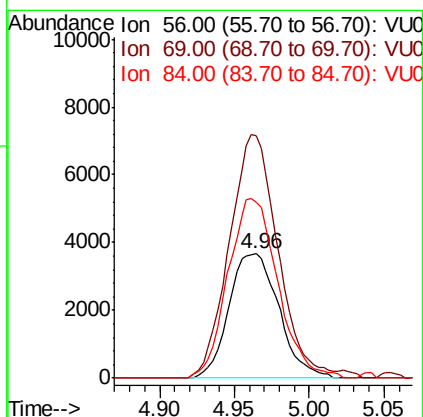
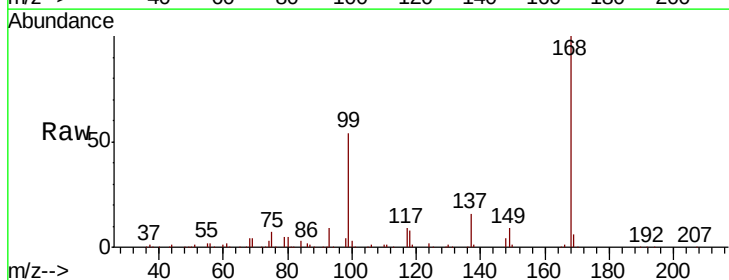
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G1-(1.9)

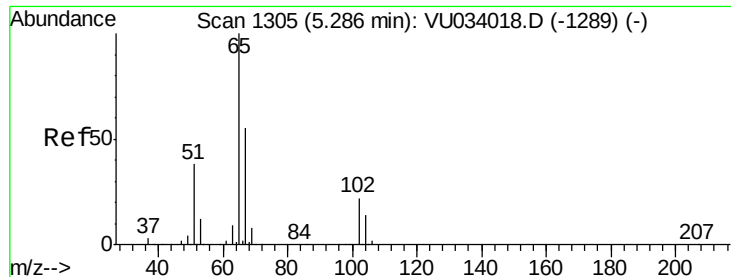
Tgt Ion: 84 Resp: 10683
Ion Ratio Lower Upper
84 100
49 117.0 100.2 150.4
51 35.7 30.8 46.2
86 66.9 52.5 78.7



#31
Cyclohexane
Concen: 0.971 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

Tgt Ion: 56 Resp: 8485
Ion Ratio Lower Upper
56 100
69 194.8 25.4 38.0#
84 141.8 65.8 98.8#

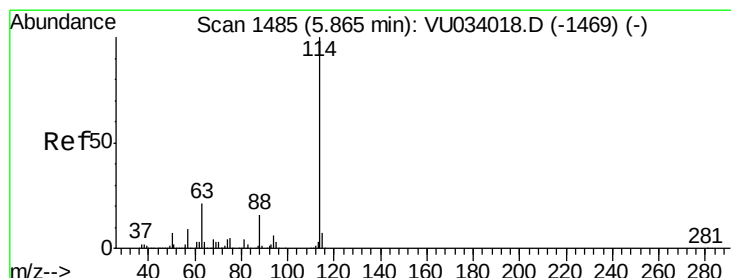
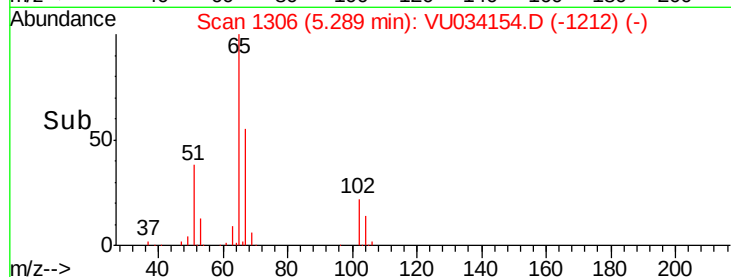
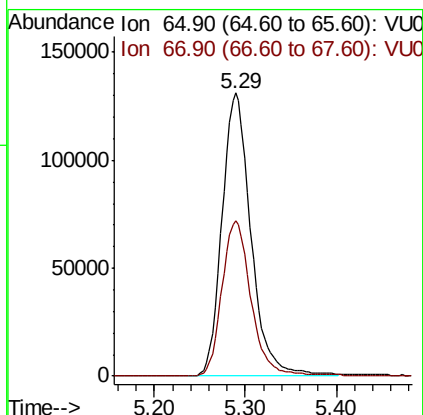
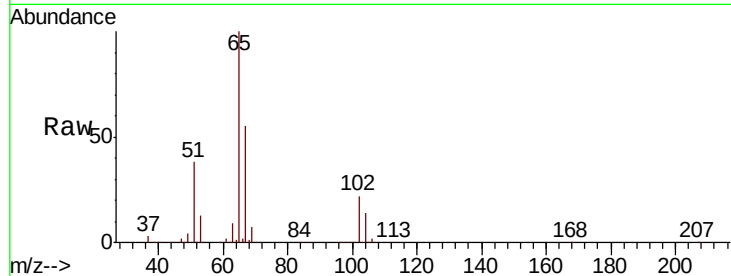




#33
 1,2-Dichloroethane-d4
 Concen: 49.598 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

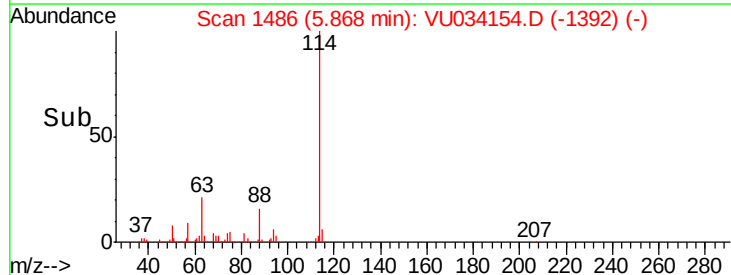
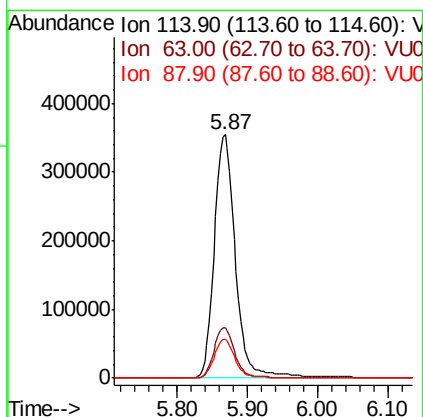
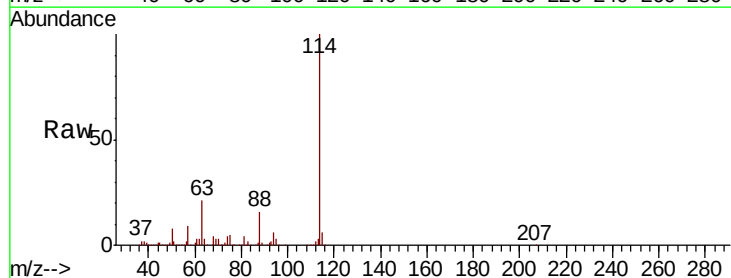
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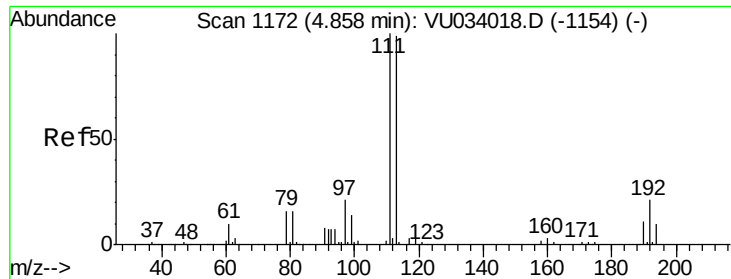
Tgt Ion: 65 Resp: 290308
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

Tgt Ion: 114 Resp: 740208
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 16.1 0.0 32.0

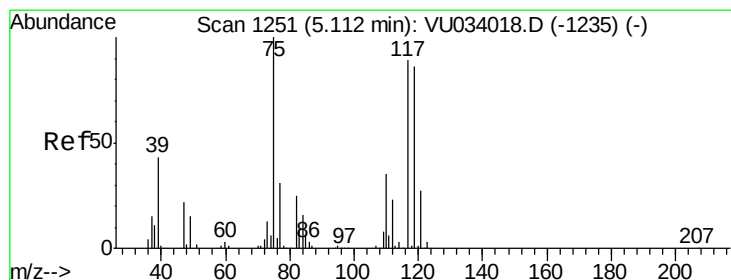
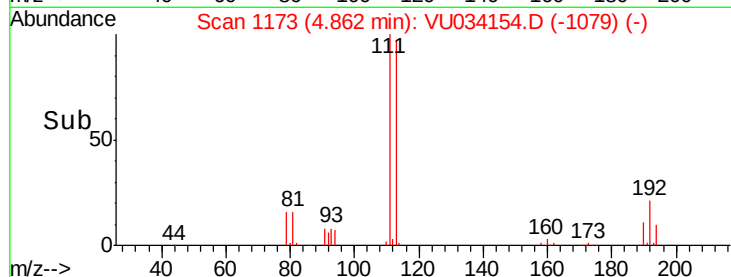
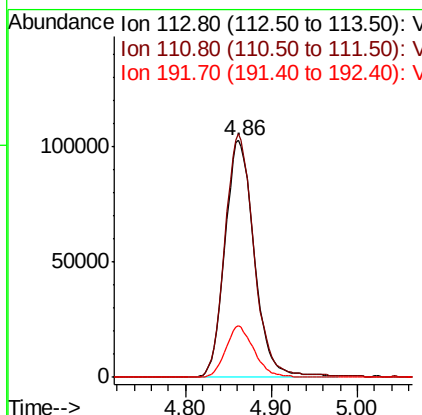
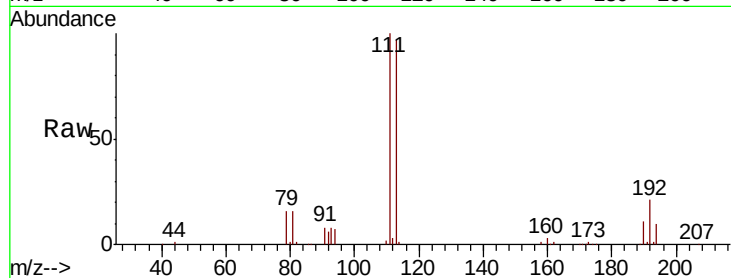




#35
 Dibromofluoromethane
 Concen: 47.564 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

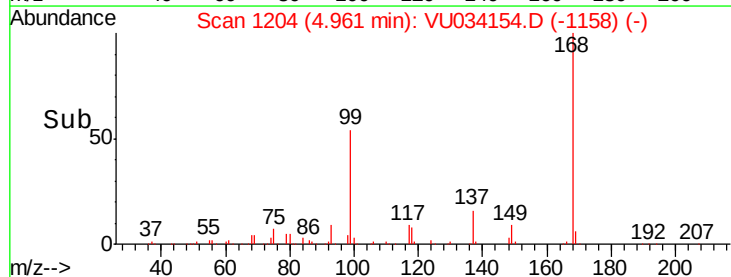
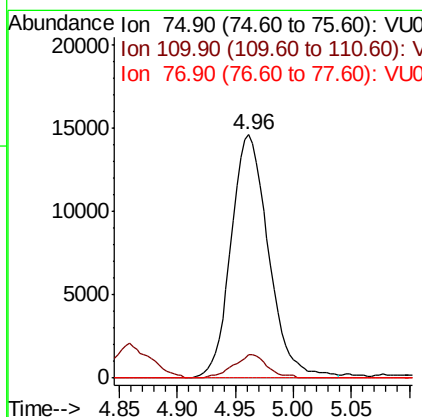
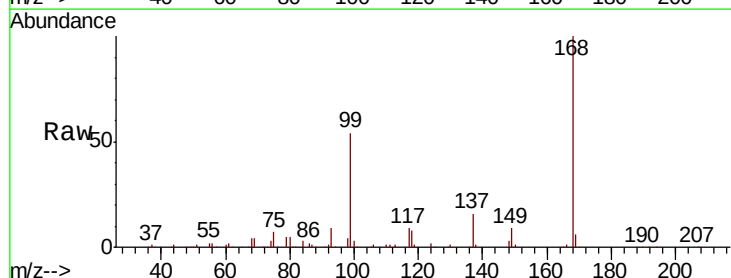
Instrument :
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 T9-12-13-G1-(1.9)

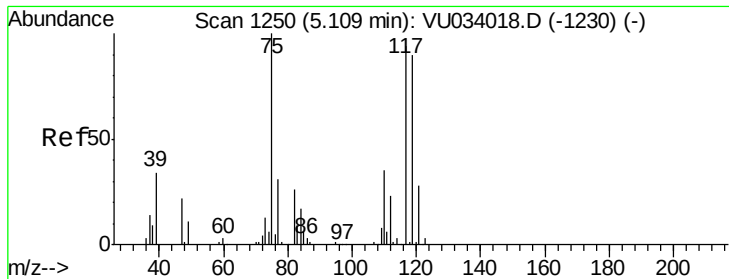
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	244196		
111	101.8		81.7	122.5
192	20.9		17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.711 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	32987		
110	8.7		17.8	53.5#
77	0.0		25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.007 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G1-(1.9)

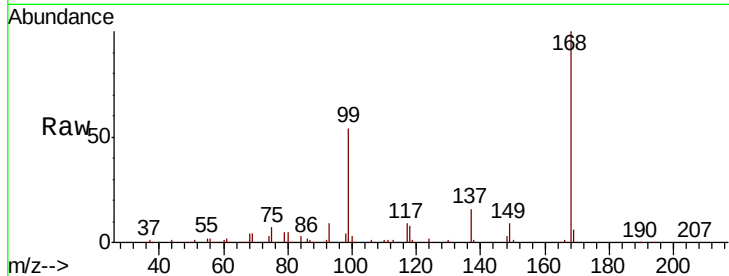
Tgt Ion:117 Resp: 40594

Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.4#

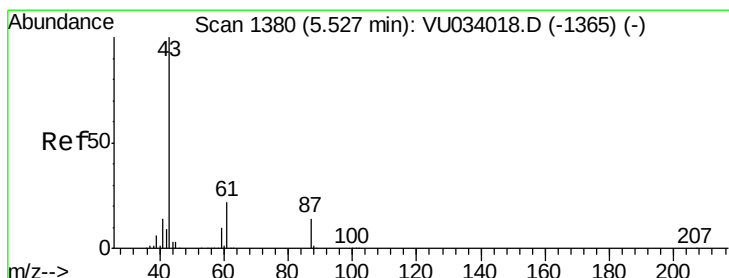
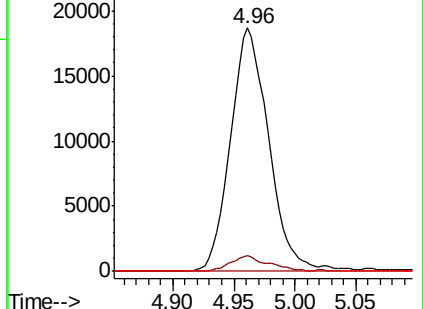
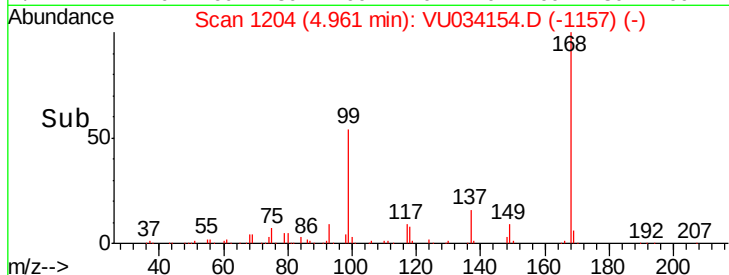
121 0.0 23.9 35.9#



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: 6.341 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

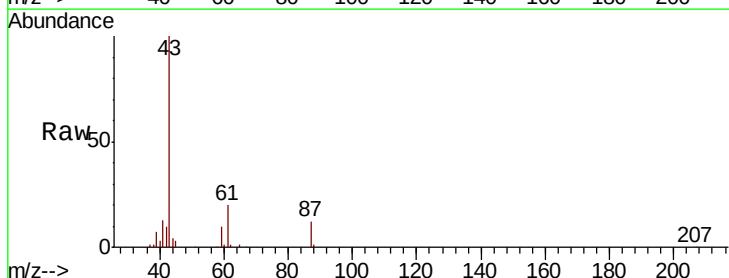
Tgt Ion: 43 Resp: 75636

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

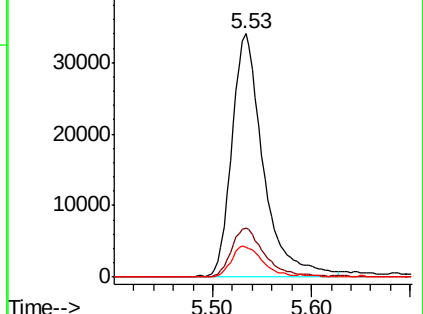
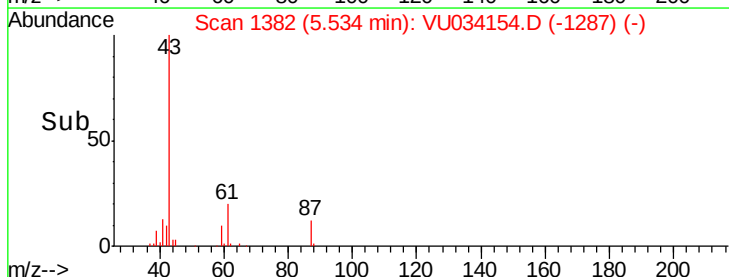
87 12.5 10.8 16.2

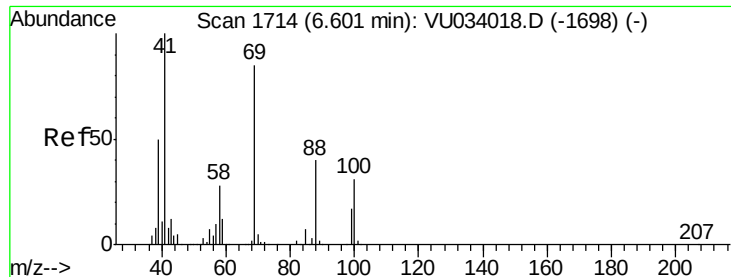


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

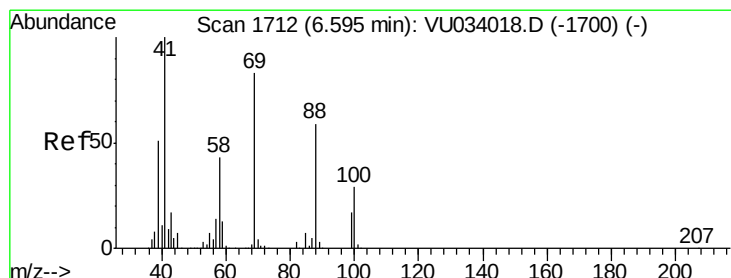
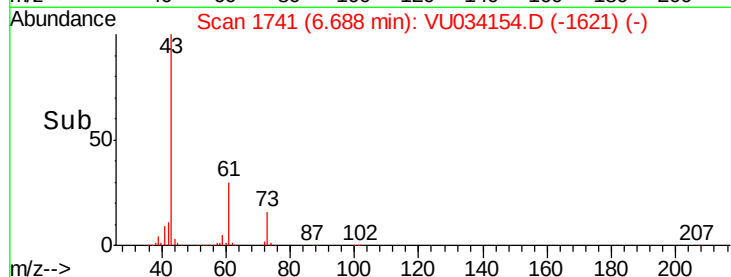
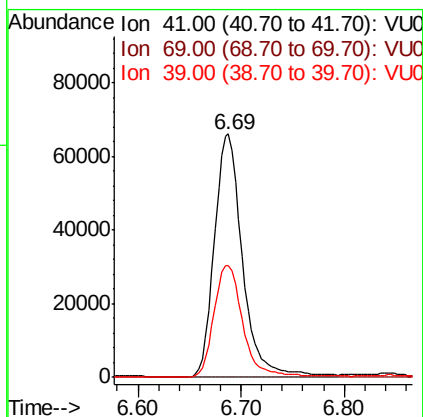
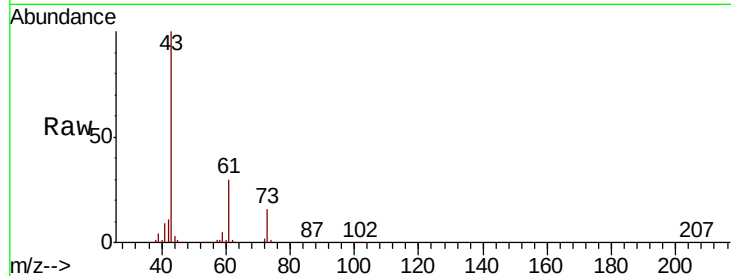




#48
Methyl methacrylate
Concen: 21.592 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

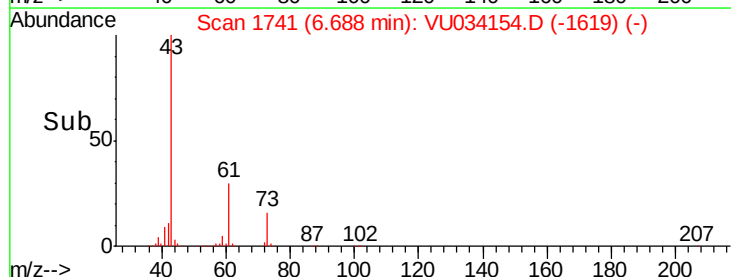
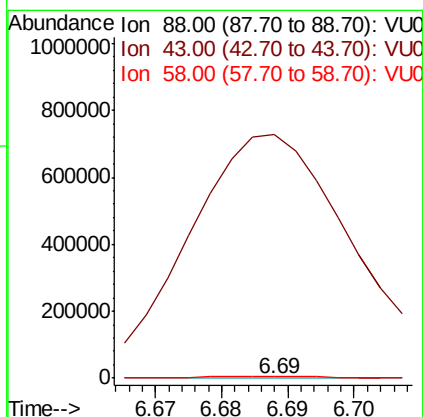
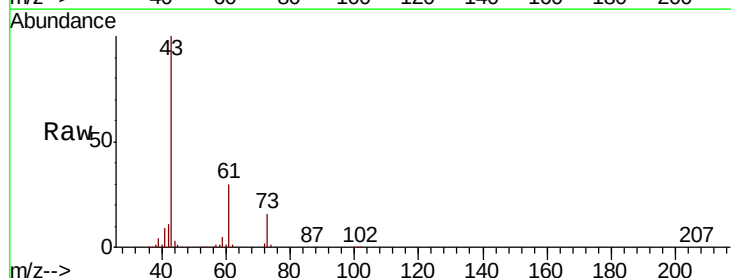
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G1-(1.9)

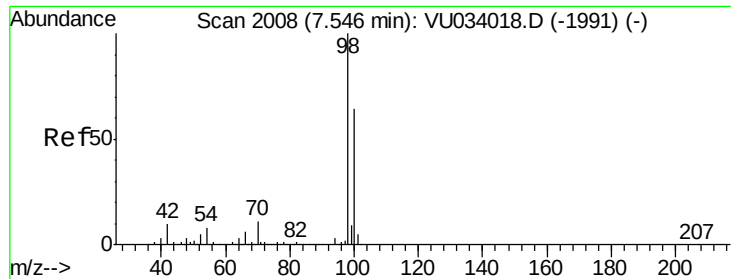
Tgt Ion: 41 Resp: 124277
Ion Ratio Lower Upper
41 100
69 0.1 69.5 104.3#
39 47.9 40.3 60.5



#49
1,4-Dioxane
Concen: 0.659 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

Tgt Ion: 88 Resp: 95
Ion Ratio Lower Upper
88 100
43 1425869.5 24.8 37.2#
58 8357.9 59.3 88.9#

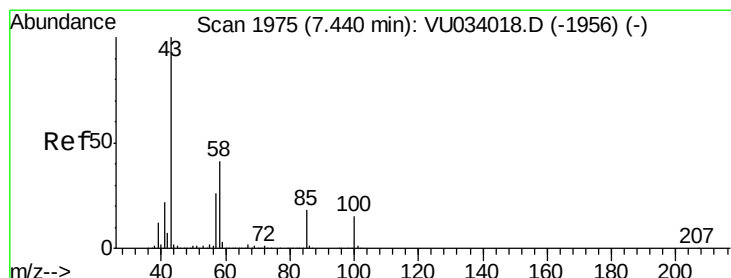
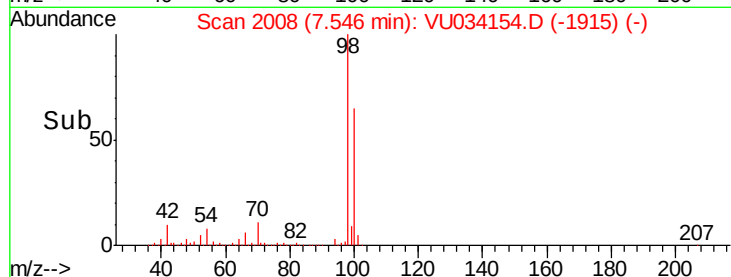
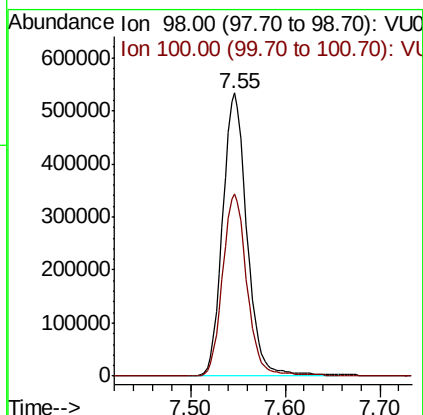
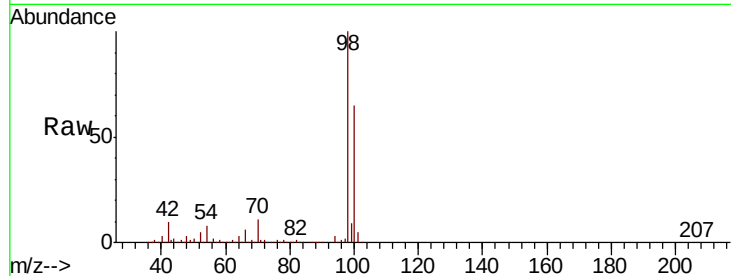




#50
Toluene-d8
Concen: 49.702 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

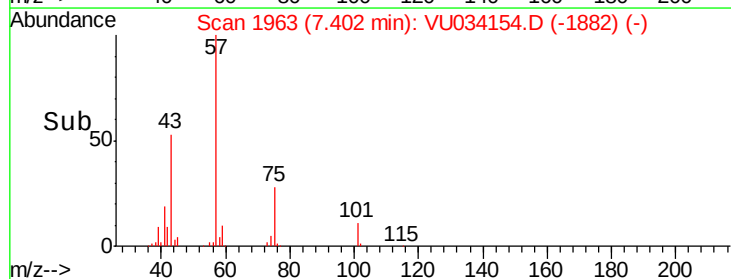
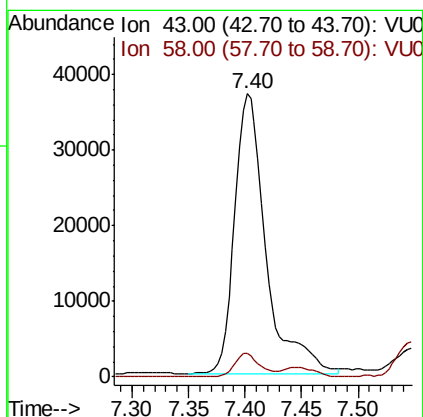
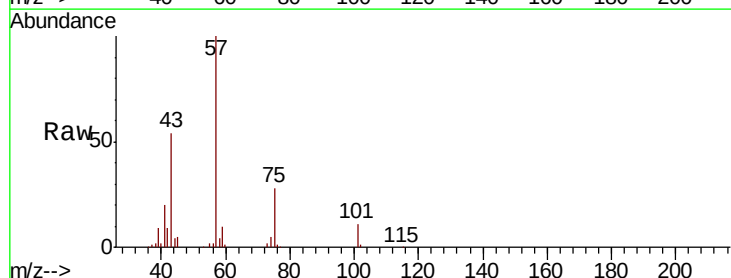
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G1-(1.9)

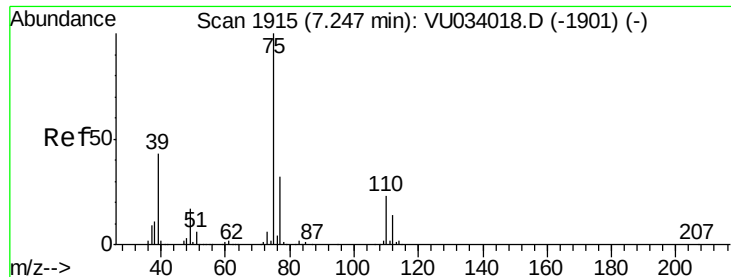
Tgt Ion: 98 Resp: 955447
Ion Ratio Lower Upper
98 100
100 64.7 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 8.764 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

Tgt Ion: 43 Resp: 72193
Ion Ratio Lower Upper
43 100
58 6.8 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 3.818 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G1-(1.9)

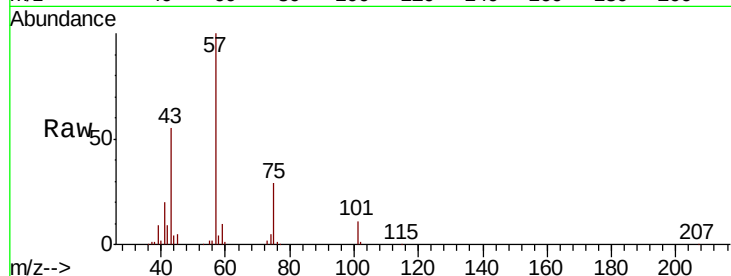
Tgt Ion: 75 Resp: 34018

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 30.0 34.6 51.8#

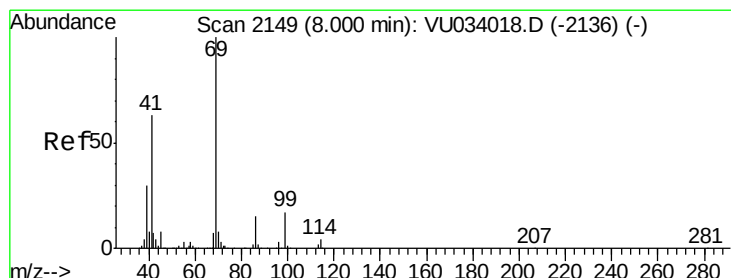
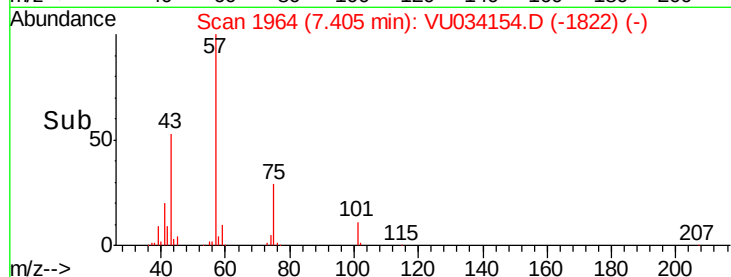
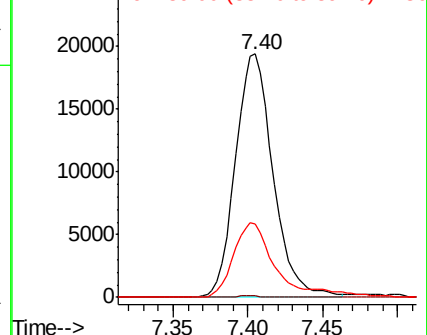


Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 0.990 ug/l

RT: 7.96 min Scan# 2137

Delta R.T. -0.04 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

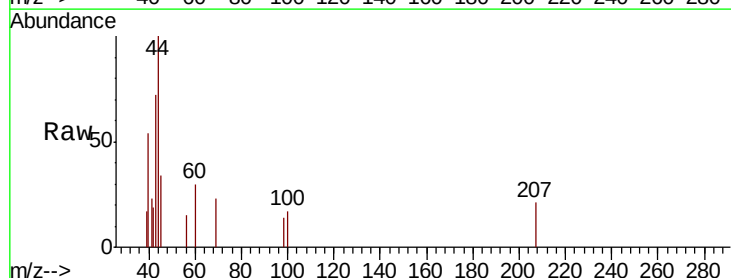
Tgt Ion: 69 Resp: 172

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#

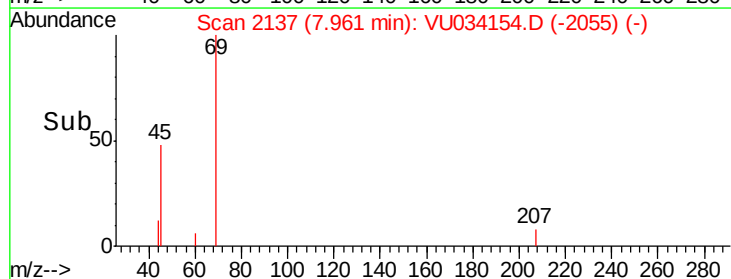
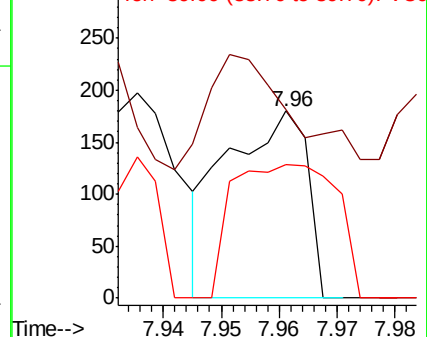


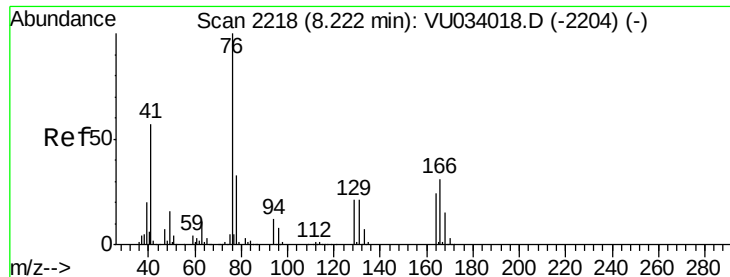
Abundance

Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

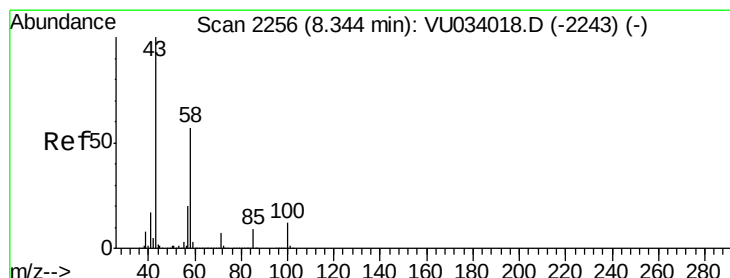
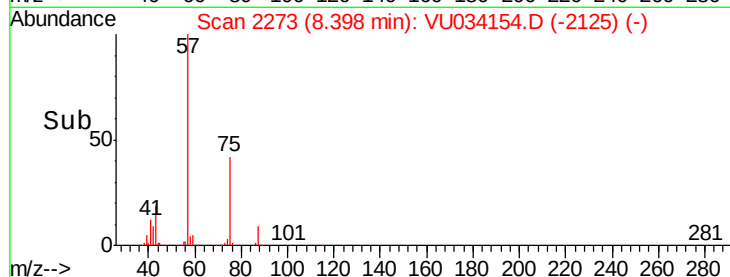
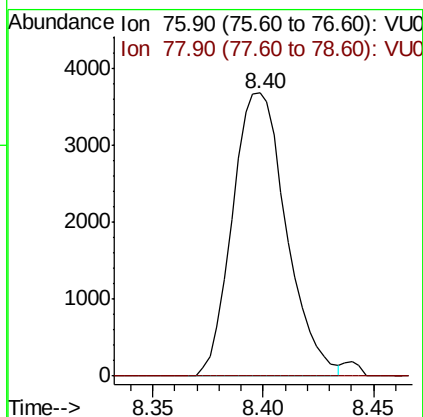
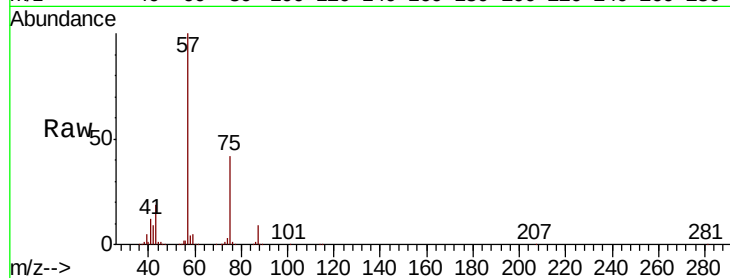




#57
 1,3-Dichloropropane
 Concen: 0.667 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

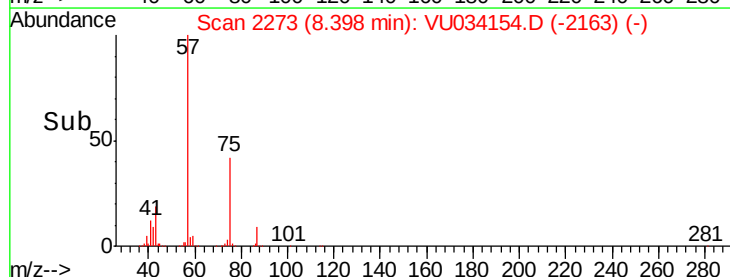
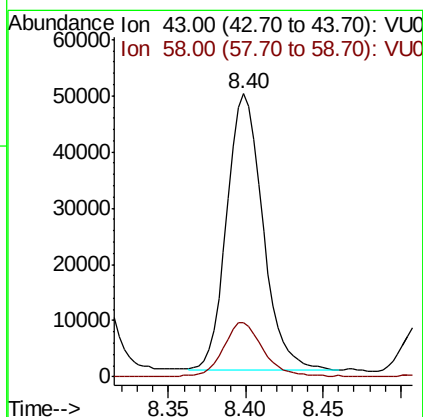
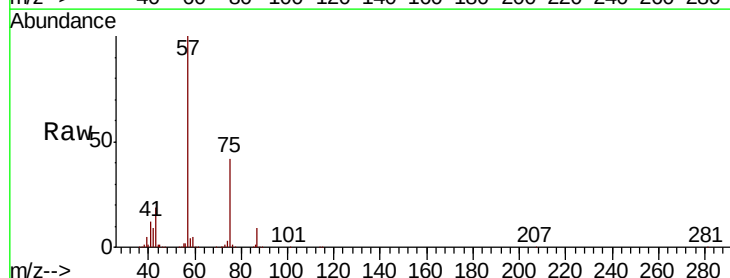
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G1-(1.9)

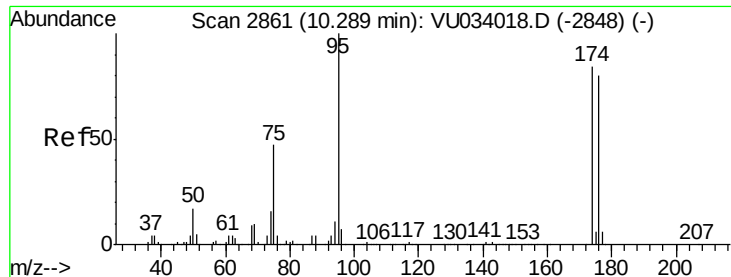
Tgt Ion: 76 Resp: 6247
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 12.746 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

Tgt Ion: 43 Resp: 79259
 Ion Ratio Lower Upper
 43 100
 58 22.1 28.4 85.3#

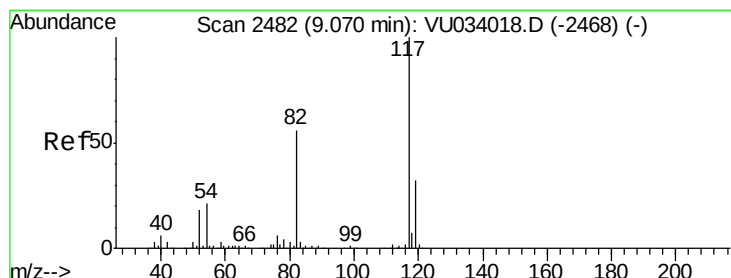
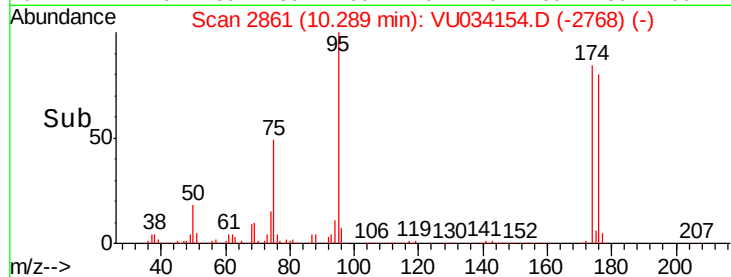
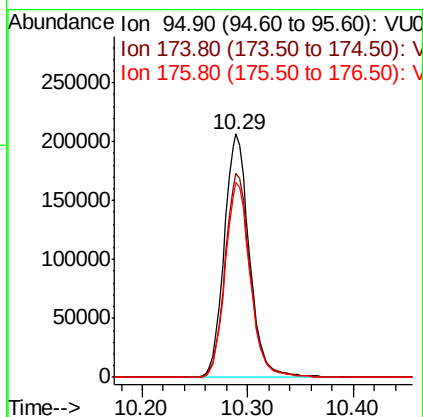
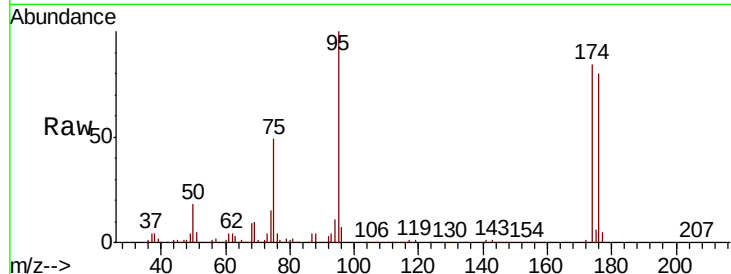




#62
4-Bromofluorobenzene
Concen: 45.411 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

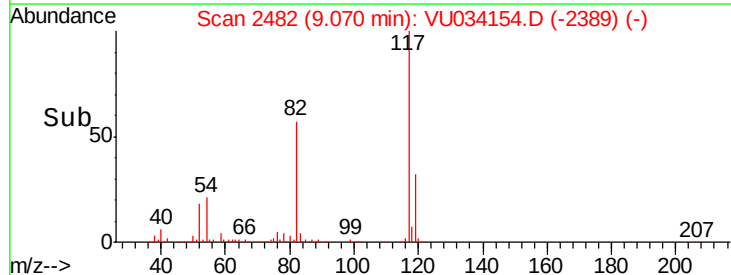
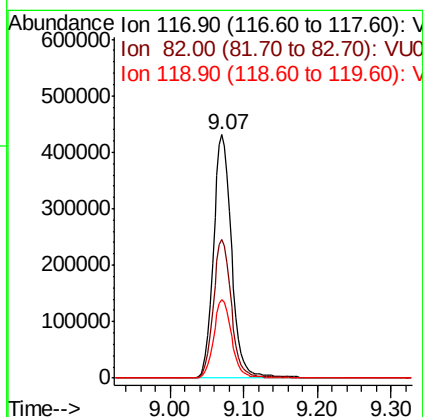
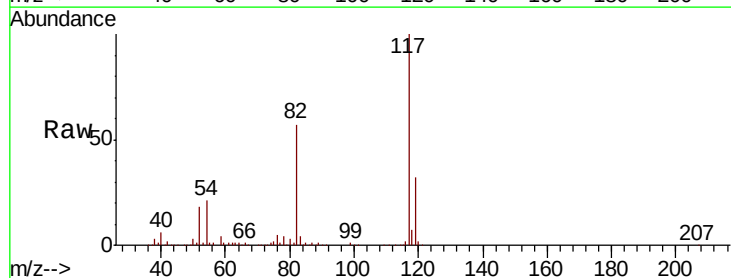
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-G1-(1.9)

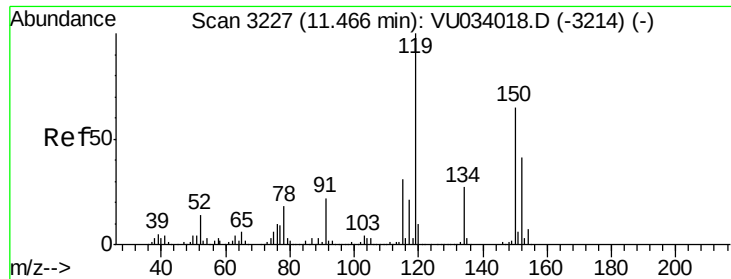
Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.1	0.0	168.8
176	80.2	0.0	161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034154.D
Acq: 01 Sep 2019 04:29

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.1	67.7
119	32.4	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: VU034154.D

Acq: 01 Sep 2019 04:29

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-G1-(1.9)

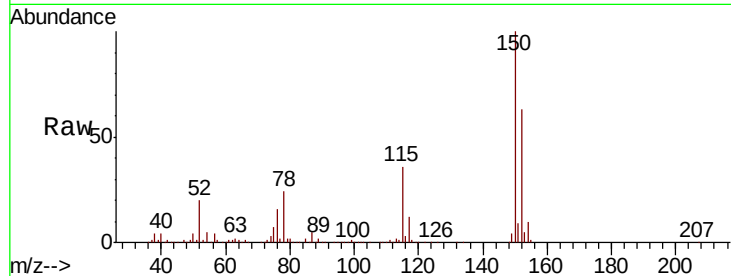
Tgt Ion:152 Resp: 355227

Ion Ratio Lower Upper

152 100

115 57.5 41.1 123.3

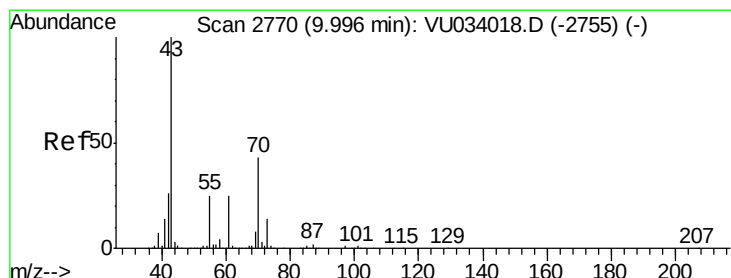
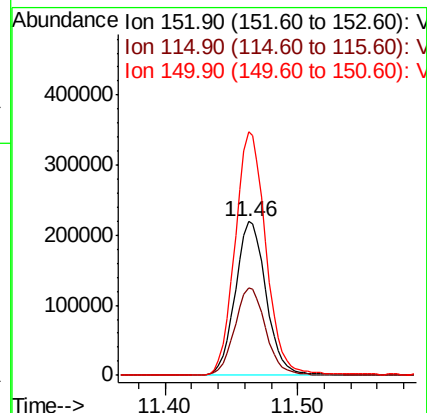
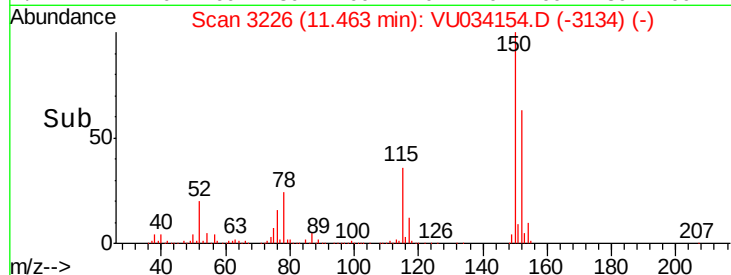
150 159.2 0.0 348.8



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-ethyl acetate

Concen: 0.310 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034154.D

Acq: 01 Sep 2019 04:29

Tgt Ion: 43 Resp: 3112

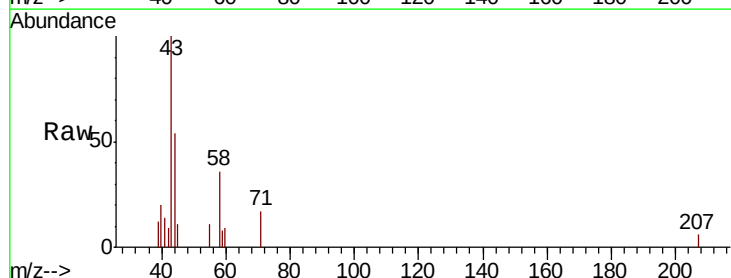
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 7.6 20.5 30.7#

61 0.0 20.0 30.0#

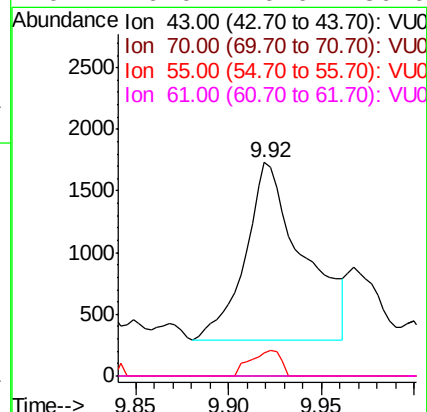
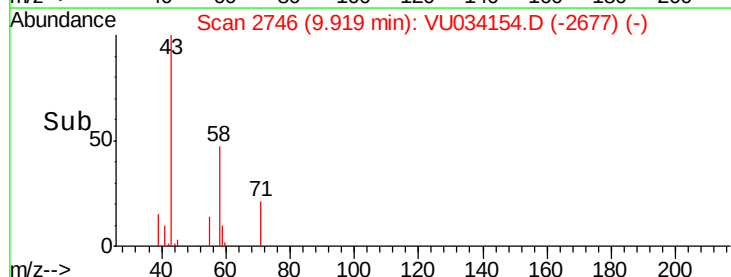


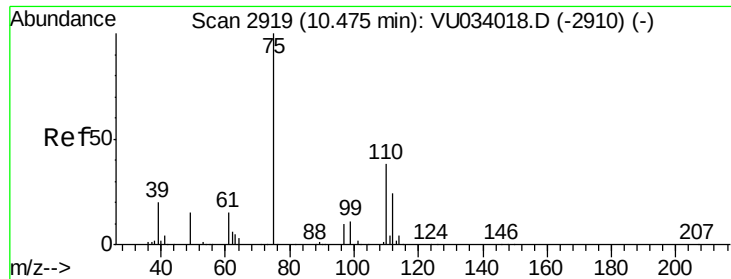
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

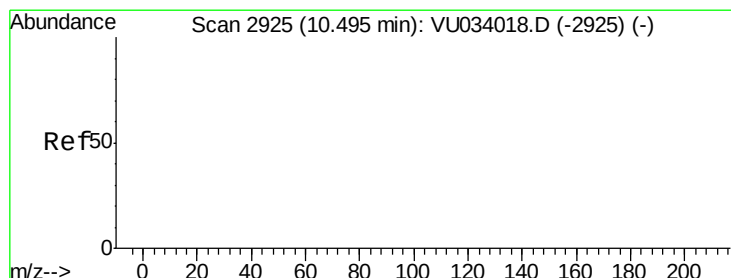
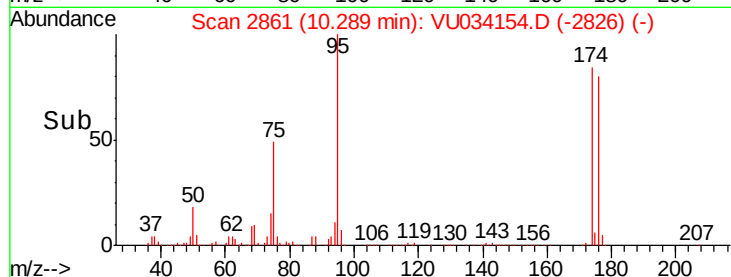
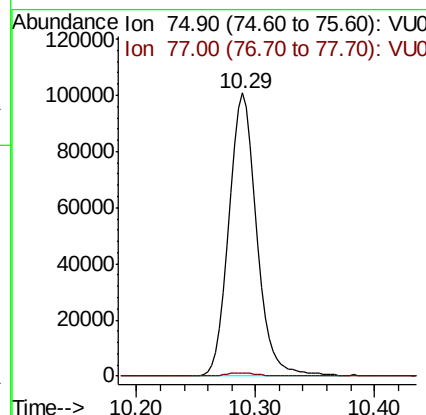
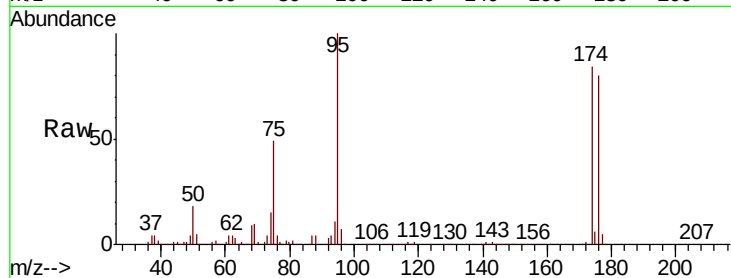




#76
 1,2,3-Trichloropropane
 Concen: 20.423 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-G1-(1.9)

Tgt Ion: 75 Resp: 163508
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.768 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034154.D
 Acq: 01 Sep 2019 04:29

Tgt Ion: 75 Resp: 163508
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

