

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034151.D
 Acq On : 01 Sep 2019 03:19
 Operator : JC/SP
 Sample : K4526-33
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(1.9)

Quant Time: Sep 01 04:54:57 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	447186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	728329	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	730514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	359063	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	289143	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
35) Dibromofluoromethane	4.86	113	236983	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	7.55	98	947663	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	10.29	95	333643	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

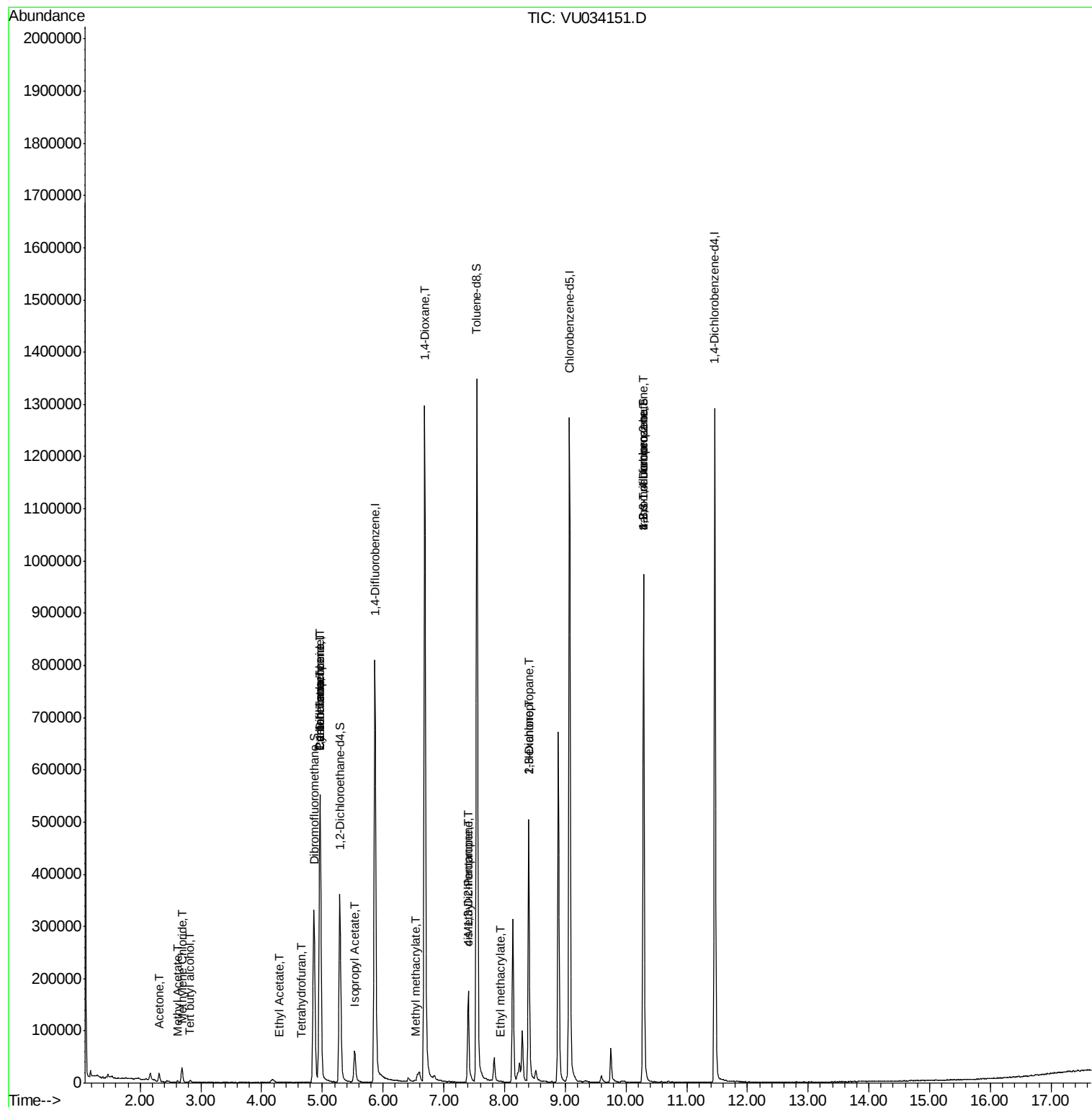
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	445	Below Cal	#	88
5) Bromomethane	1.63	94	541	Below Cal	#	79
11) Tert butyl alcohol	2.82	59	3147	2.382	ug/l #	73
16) Acetone	2.31	43	17877	6.115	ug/l	100
18) Methyl Acetate	2.61	43	3422	0.453	ug/l	91
20) Methylene Chloride	2.69	84	12583	2.273	ug/l	97
29) Tetrahydrofuran	4.66	42	593	0.236	ug/l #	38
31) Cyclohexane	4.96	56	7677	0.897	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32847	4.768	ug/l #	48
37) Ethyl Acetate	4.29	43	2236	0.290	ug/l #	68
38) Carbon Tetrachloride	4.96	117	41827	6.290	ug/l #	16
43) Isopropyl Acetate	5.53	43	74774	6.371	ug/l	97
48) Methyl methacrylate	6.53	41	3513	0.620	ug/l #	14
49) 1,4-Dioxane	6.69	88	132	0.930	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67964	8.385	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	31990	3.649	ug/l #	65
56) Ethyl methacrylate	7.95	69	95	0.982	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5208	0.565	ug/l #	42
59) 2-Hexanone	8.40	43	70321	11.493	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	161272	19.928	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	161272	67.103	ug/l #	100

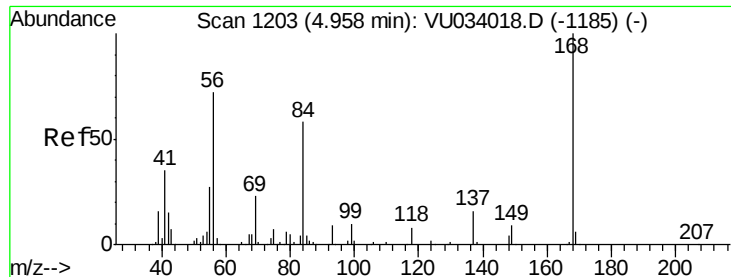
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
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# 1205

Delta R.T. 0.01 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

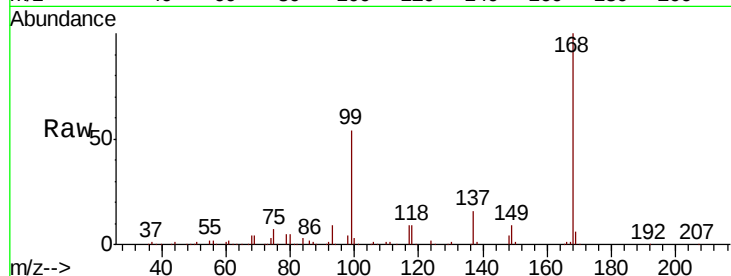
T9-12-13-F4-(1.9)

Tgt Ion:168 Resp: 447186

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



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

Ion 98.90 (98.60 to 99.60): VU034151.D (-1110) (-)

4.96

200000

150000

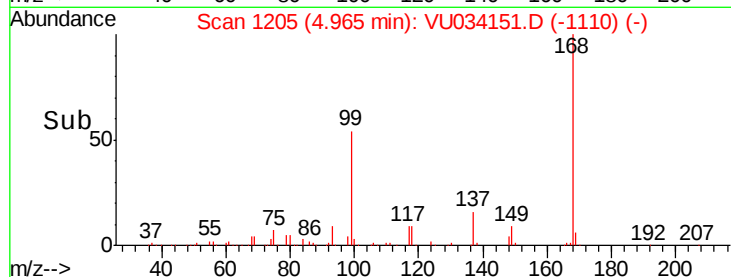
100000

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: VU034151.D

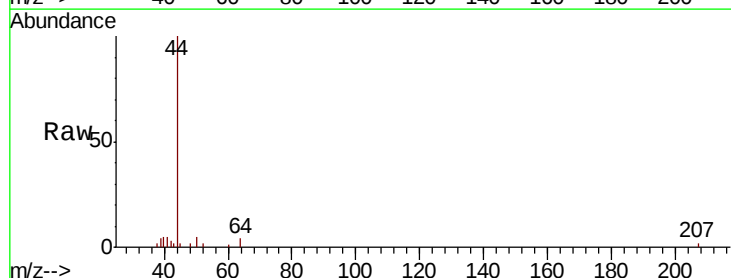
Acq: 01 Sep 2019 03:19

Tgt Ion: 50 Resp: 445

Ion Ratio Lower Upper

50 100

52 39.5 26.2 39.4#



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

Ion 51.90 (51.60 to 52.60): VU034151.D (-1) (-)

1.32

500

400

300

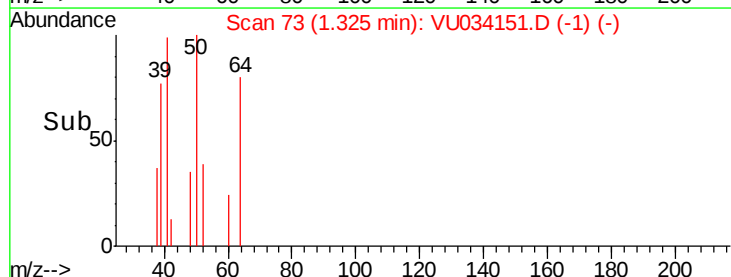
200

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: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

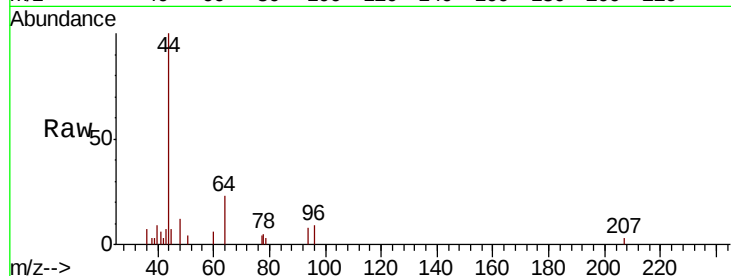
T9-12-13-F4-(1.9)

Tgt Ion: 94 Resp: 541

Ion Ratio Lower Upper

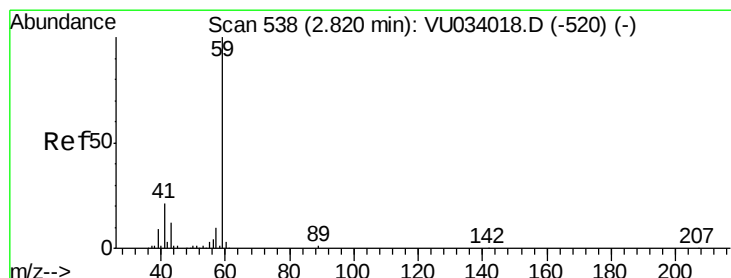
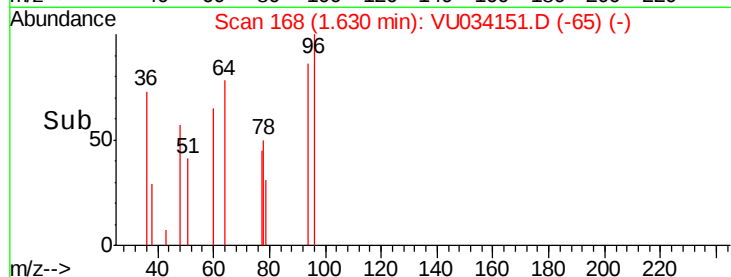
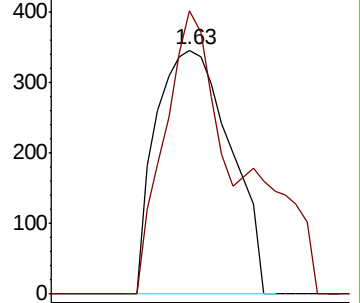
94 100

96 116.2 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: 2.382 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034151.D

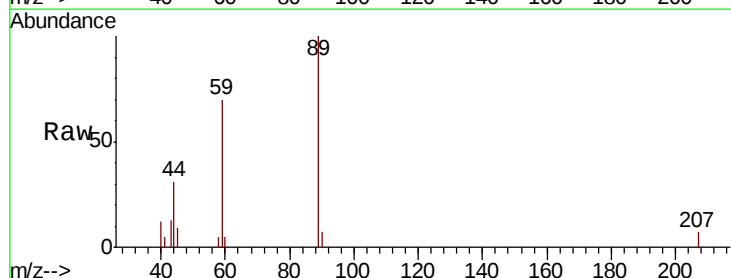
Acq: 01 Sep 2019 03:19

Tgt Ion: 59 Resp: 3147

Ion Ratio Lower Upper

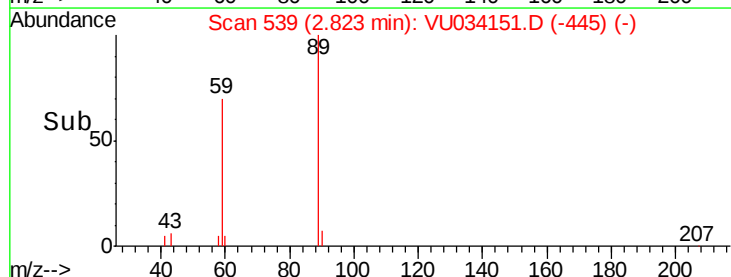
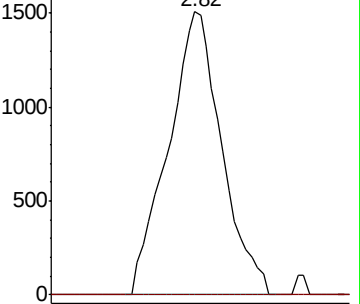
59 100

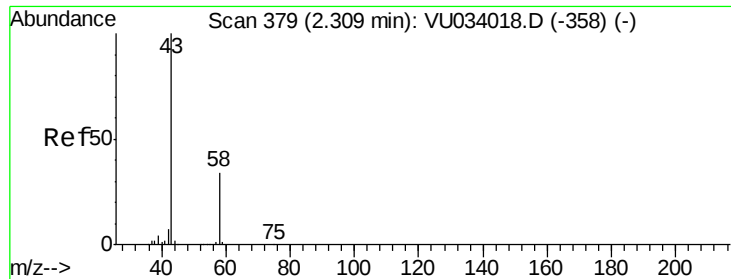
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 6.115 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

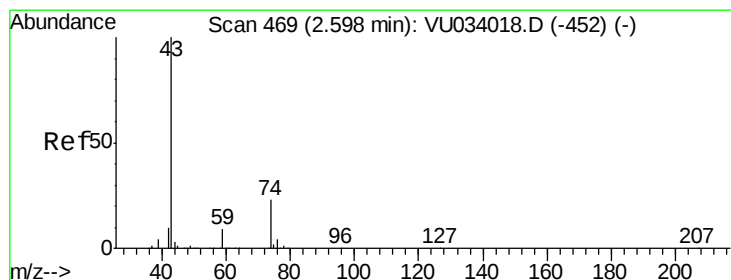
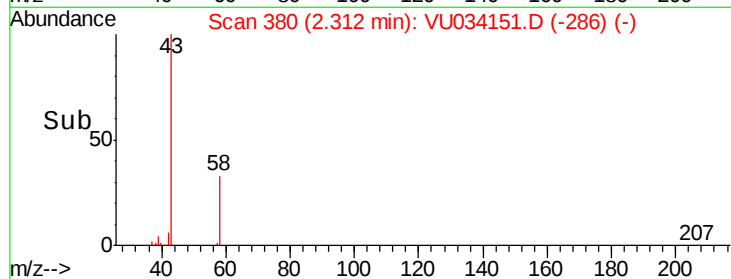
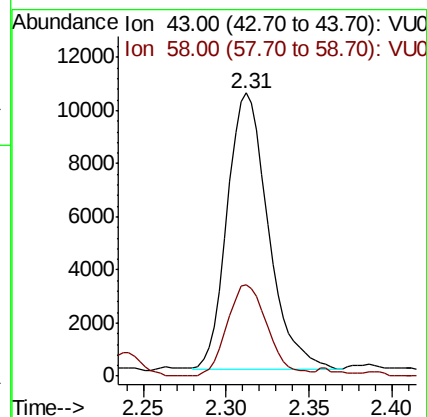
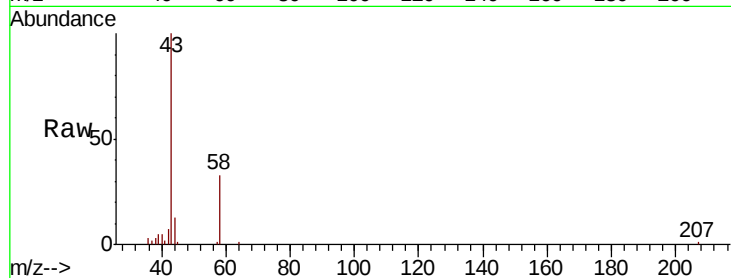
T9-12-13-F4-(1.9)

Tgt Ion: 43 Resp: 17877

Ion Ratio Lower Upper

43 100

58 33.3 26.8 40.2



#18

Methyl Acetate

Concen: 0.453 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034151.D

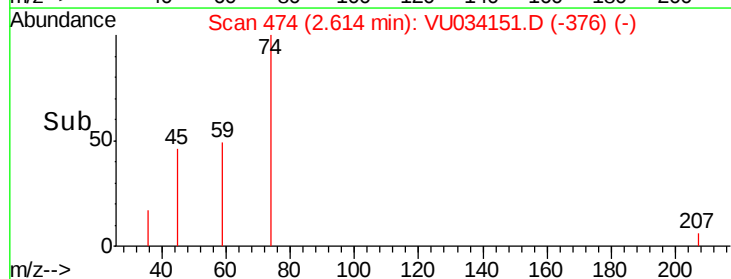
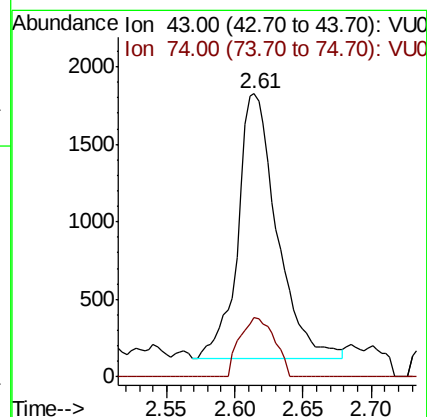
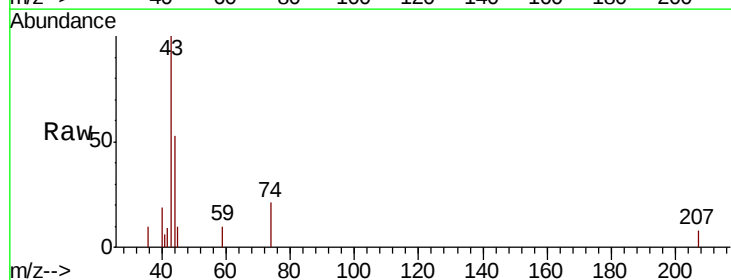
Acq: 01 Sep 2019 03:19

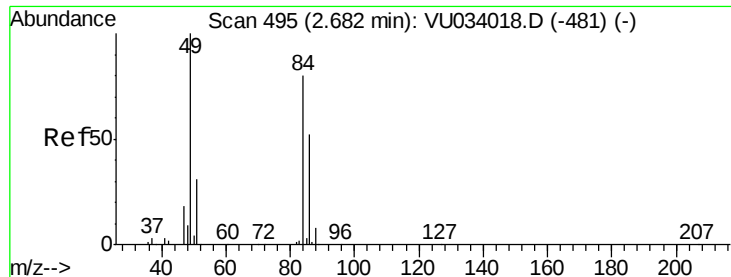
Tgt Ion: 43 Resp: 3422

Ion Ratio Lower Upper

43 100

74 19.8 19.2 28.8

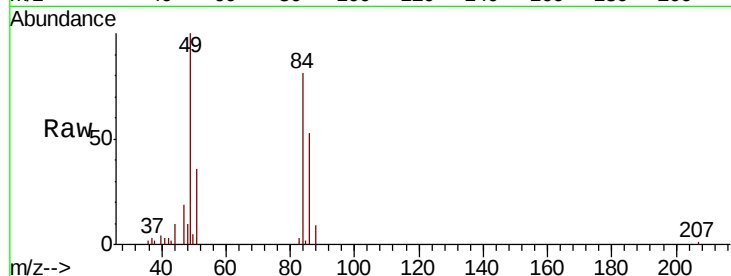




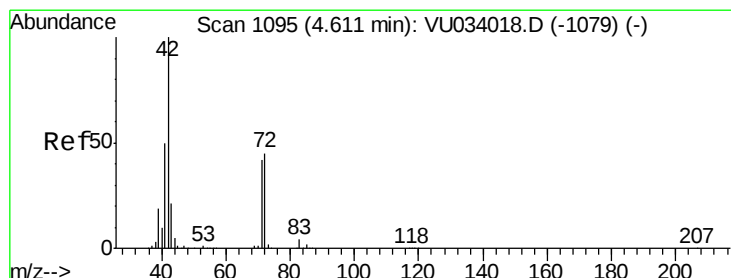
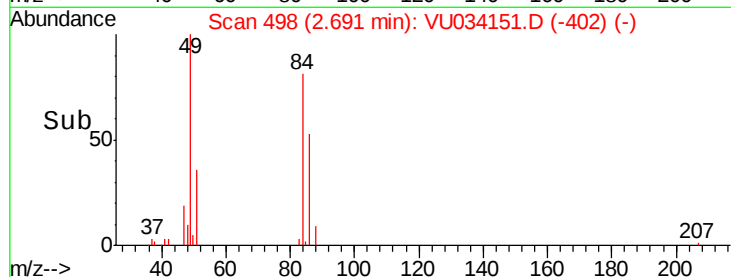
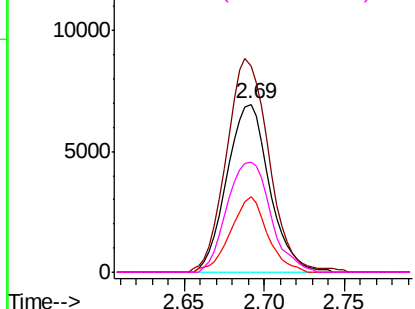
#20
Methylene Chloride
Concen: 2.273 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(1.9)

Tgt Ion:	84	Resp:	12583
Ion	Ratio	Lower	Upper
84	100		
49	122.8	100.2	150.4
51	44.8	30.8	46.2
86	65.3	52.5	78.7

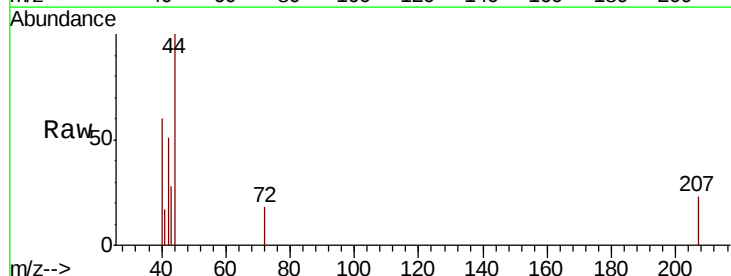


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

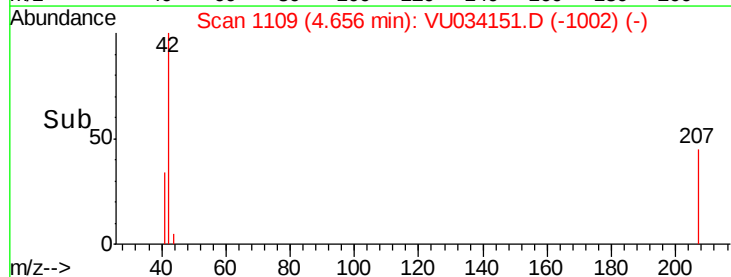
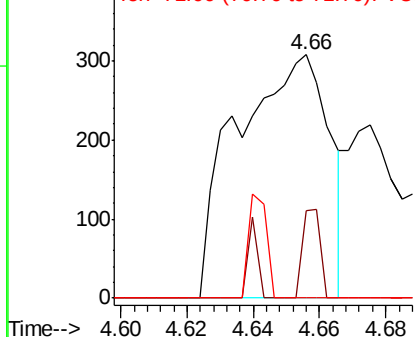


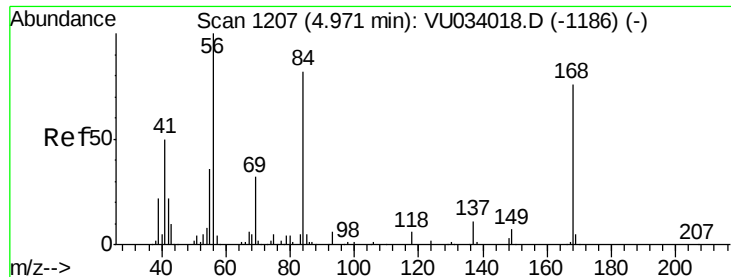
#29
Tetrahydrofuran
Concen: 0.236 ug/l
RT: 4.66 min Scan# 1109
Delta R.T. 0.05 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Tgt Ion:	42	Resp:	593
Ion	Ratio	Lower	Upper
42	100		
72	7.3	35.8	53.6#
71	0.0	34.0	51.0#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

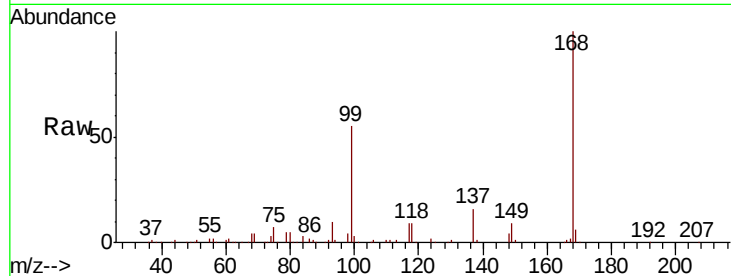




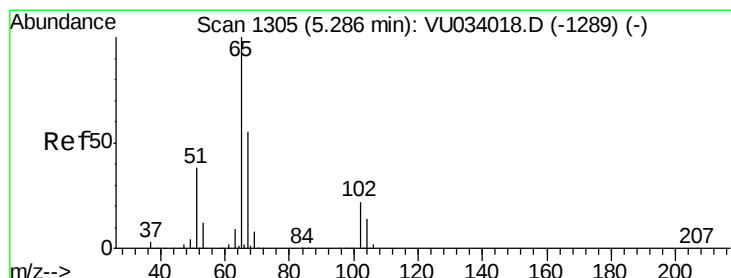
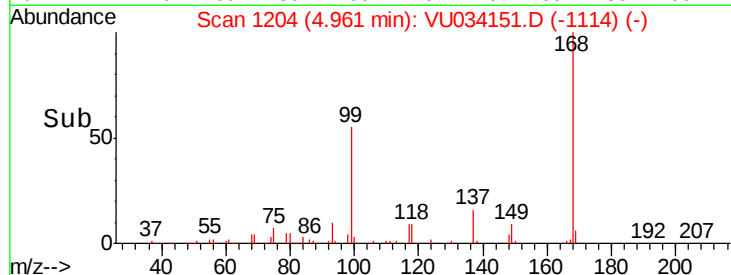
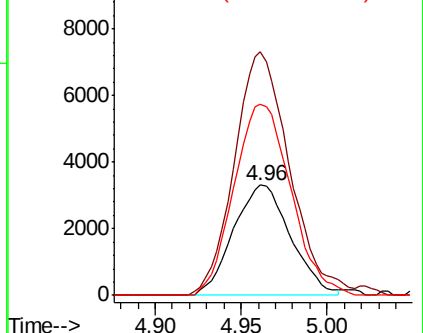
#31
Cyclohexane
Concen: 0.897 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Instrument :
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ClientSampleId :
T9-12-13-F4-(1.9)

Tgt Ion: 56 Resp: 7677
Ion Ratio Lower Upper
56 100
69 220.8 25.4 38.0#
84 173.4 65.8 98.8#

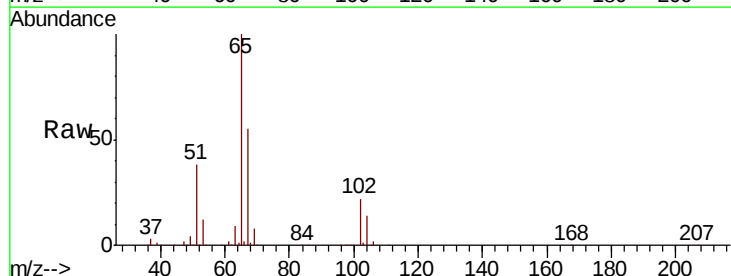


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

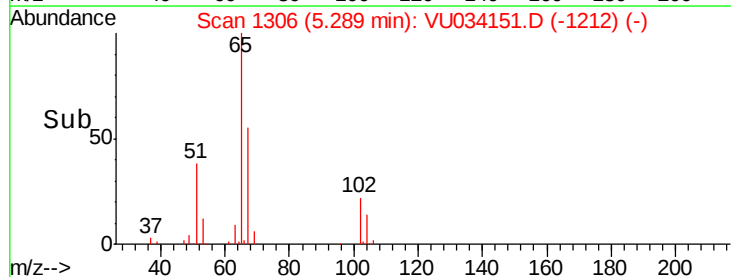
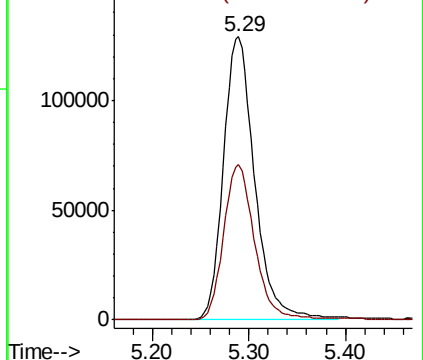


#33
1,2-Dichloroethane-d4
Concen: 50.461 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Tgt Ion: 65 Resp: 289143
Ion Ratio Lower Upper
65 100
67 54.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

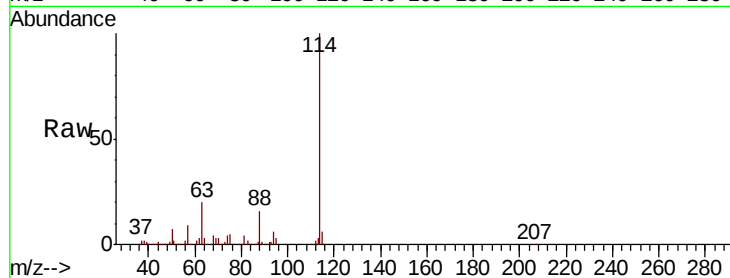




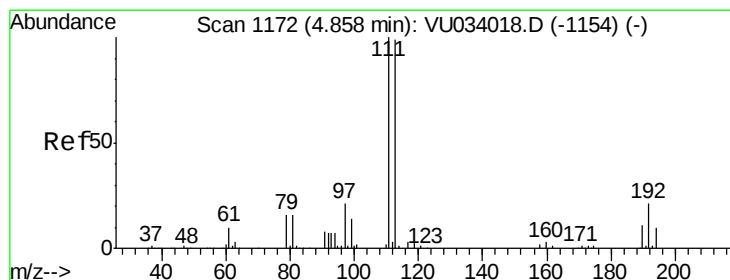
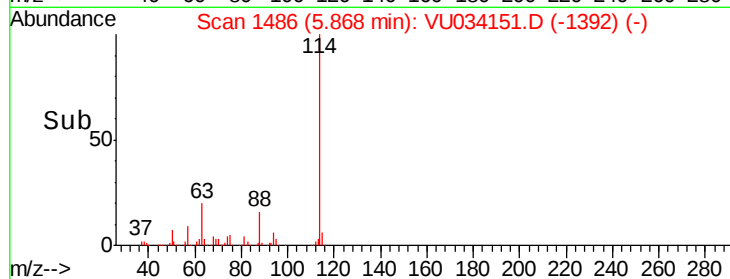
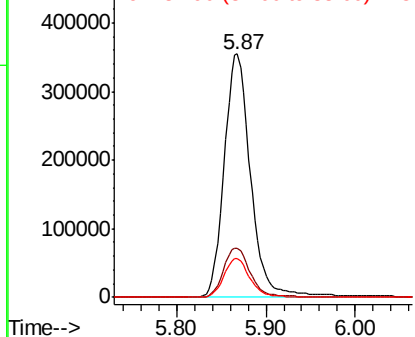
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Instrument :
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 T9-12-13-F4-(1.9)

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.0
88	15.9	0.0	32.0

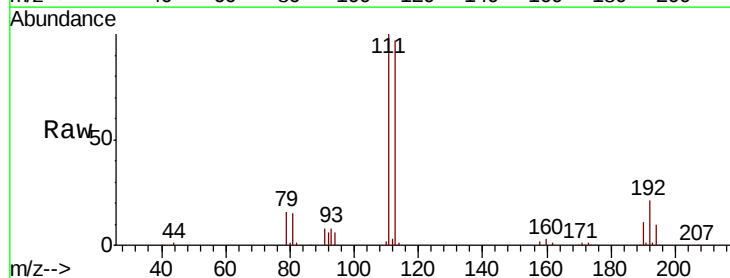


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

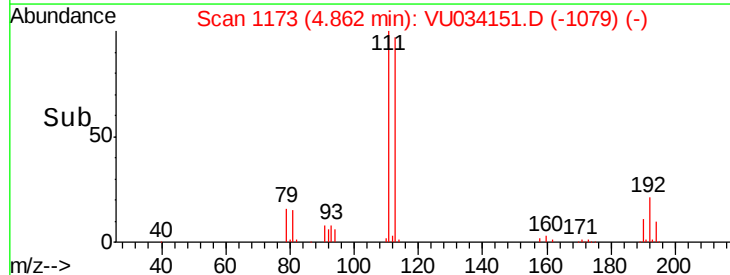
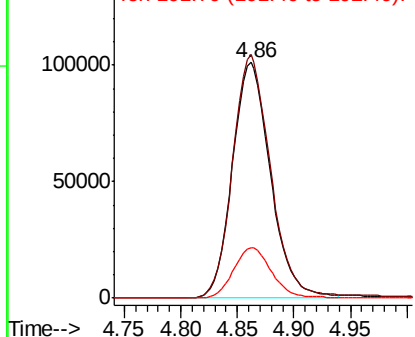


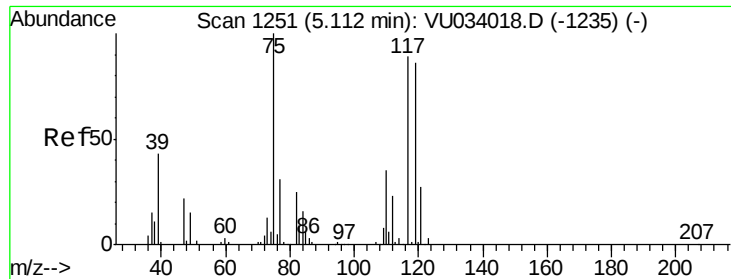
#35
 Dibromofluoromethane
 Concen: 46.912 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.7	122.5
192	21.4	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: 4.768 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(1.9)

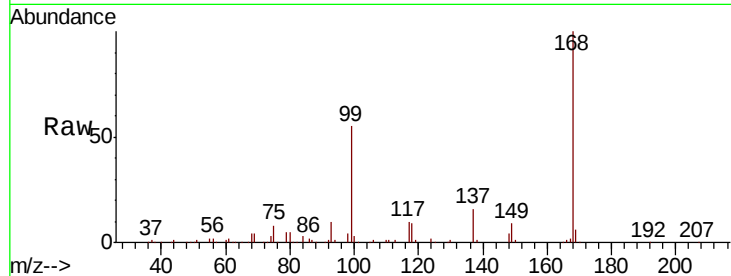
Tgt Ion: 75 Resp: 32847

Ion Ratio Lower Upper

75 100

110 7.7 17.8 53.5#

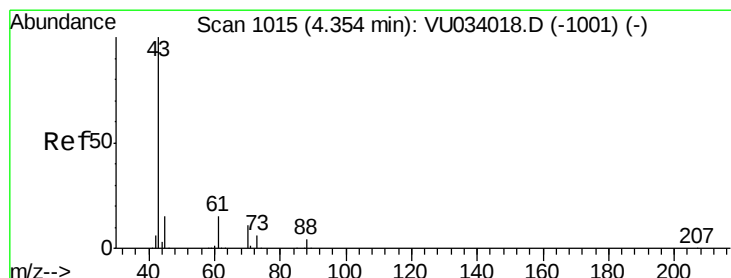
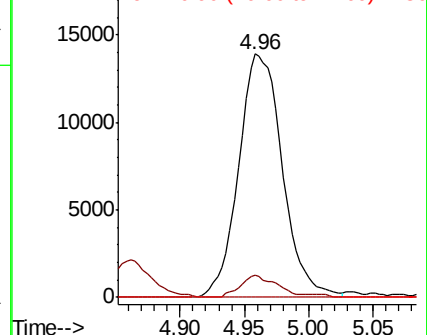
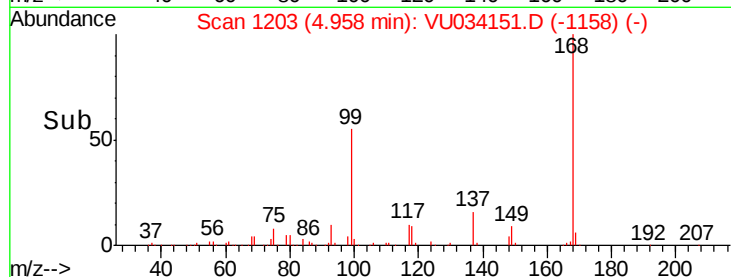
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU034151.D (-1158) (-)

Ion 109.90 (109.60 to 110.60): VU034151.D (-1158) (-)

Ion 76.90 (76.60 to 77.60): VU034151.D (-1158) (-)



#37

Ethyl Acetate

Concen: 0.290 ug/l

RT: 4.29 min Scan# 994

Delta R.T. -0.07 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

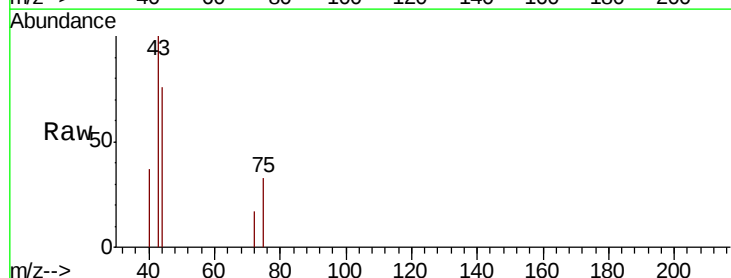
Tgt Ion: 43 Resp: 2236

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

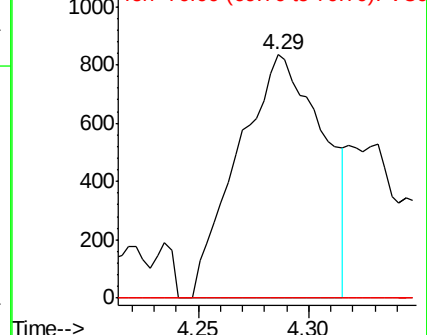
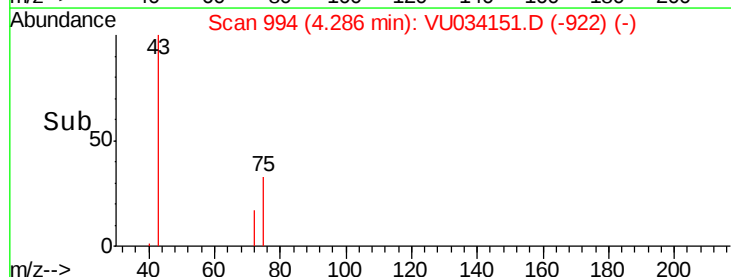
70 0.0 8.6 12.8#

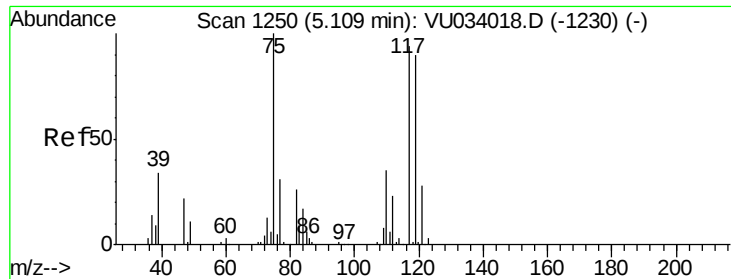


Abundance Ion 43.00 (42.70 to 43.70): VU034151.D (-922) (-)

Ion 60.90 (60.60 to 61.60): VU034151.D (-922) (-)

Ion 70.00 (69.70 to 70.70): VU034151.D (-922) (-)

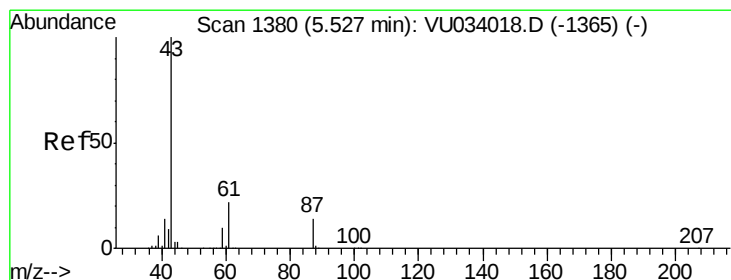
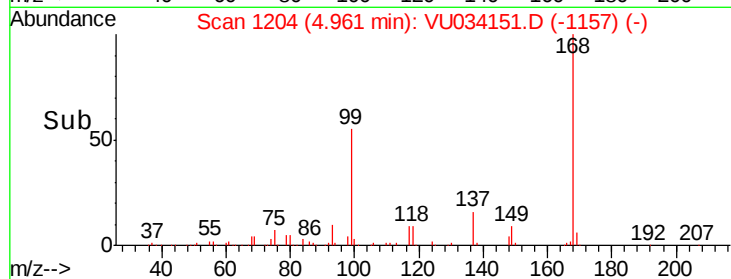
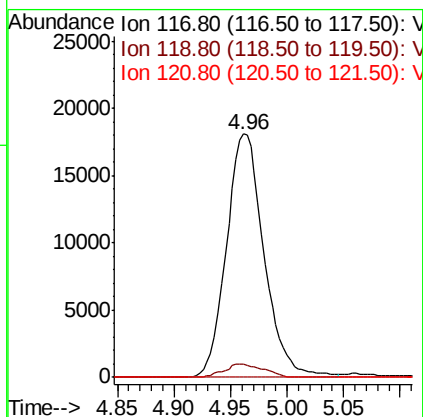
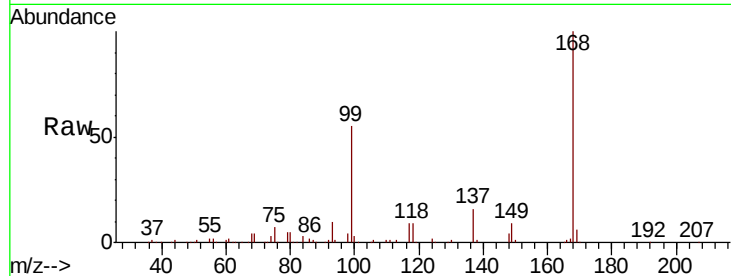




#38
Carbon Tetrachloride
Concen: 6.290 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

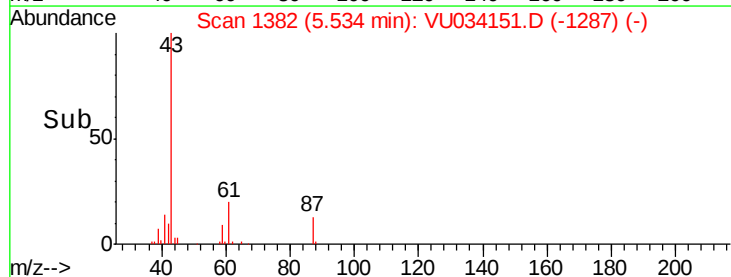
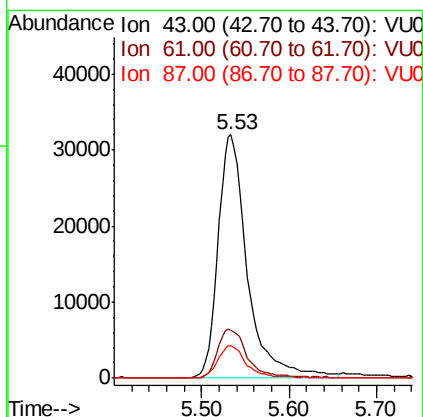
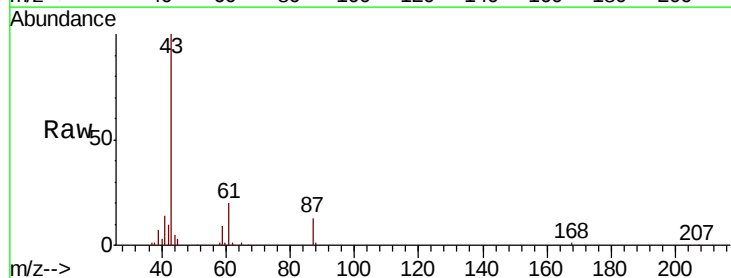
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(1.9)

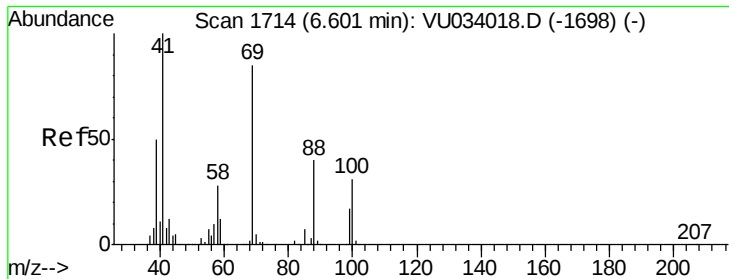
Tgt Ion: 117 Resp: 41827
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.4#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 6.371 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Tgt Ion: 43 Resp: 74774
Ion Ratio Lower Upper
43 100
61 20.2 17.2 25.8
87 12.6 10.8 16.2

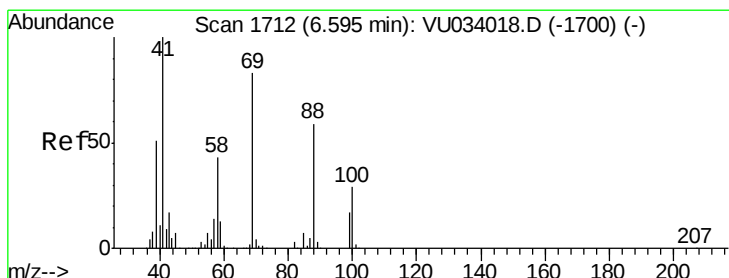
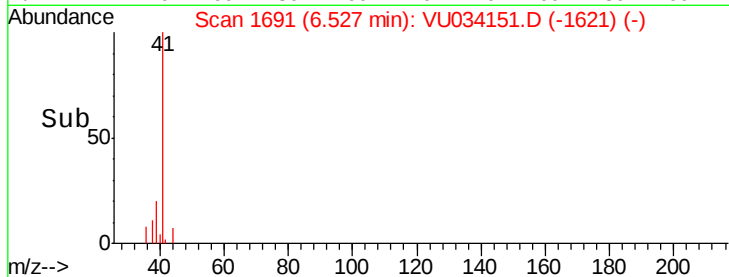
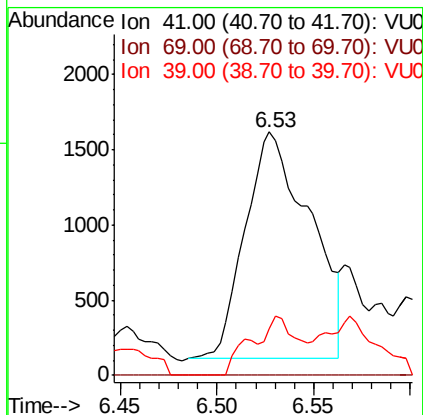
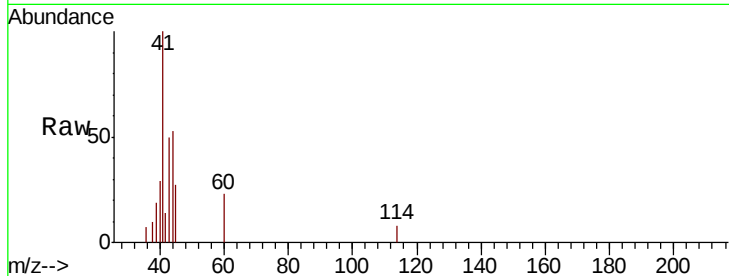




#48
Methyl methacrylate
Concen: 0.620 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

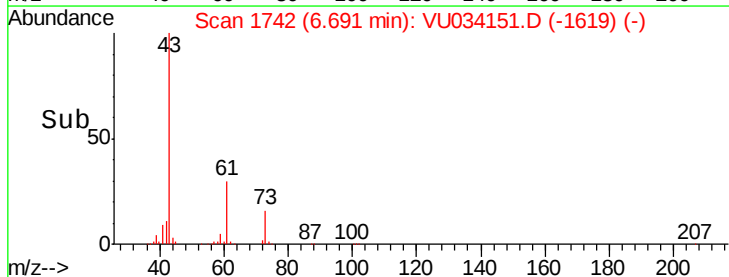
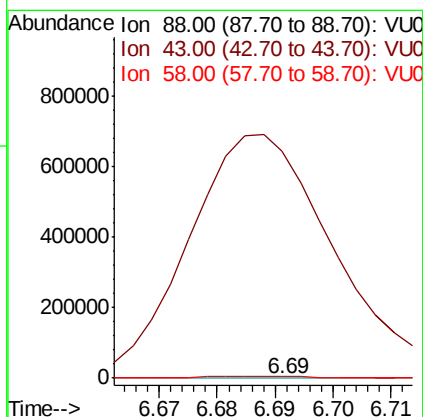
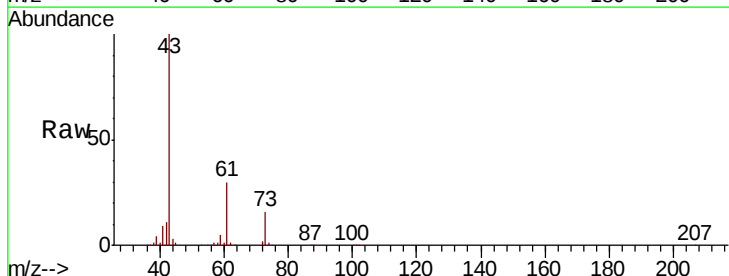
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(1.9)

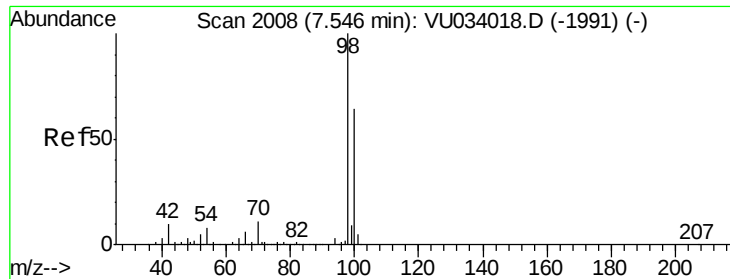
Tgt Ion: 41 Resp: 3513
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.930 ug/l
RT: 6.69 min Scan# 1742
Delta R.T. 0.10 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 961805.3 24.8 37.2#
58 5715.9 59.3 88.9#





#50

Toluene-d8

Concen: 50.101 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

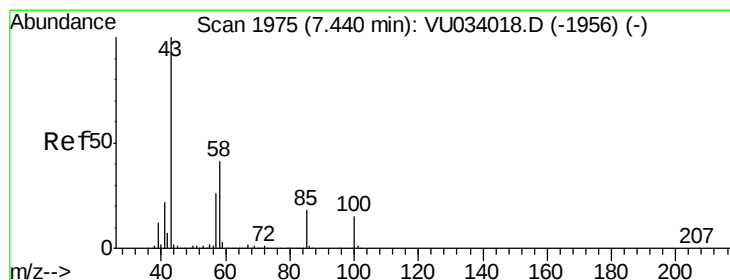
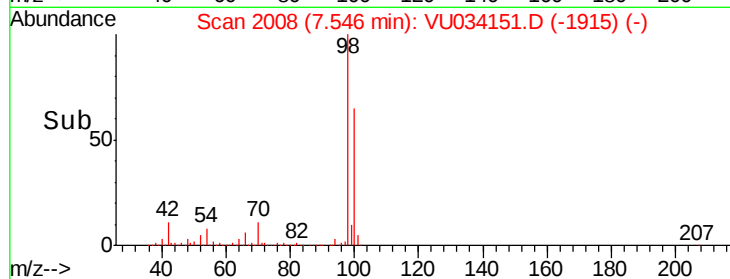
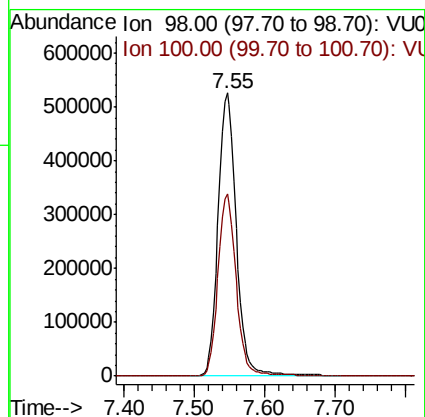
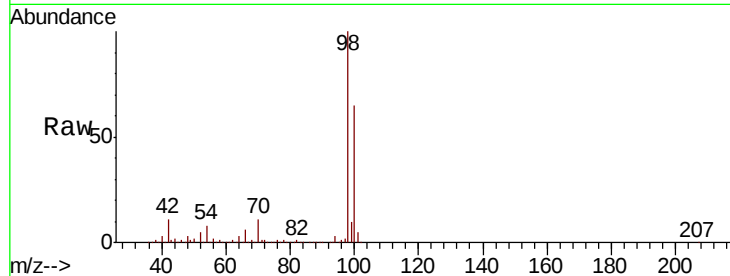
T9-12-13-F4-(1.9)

Tgt Ion: 98 Resp: 947663

Ion Ratio Lower Upper

98 100

100 64.5 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.385 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034151.D

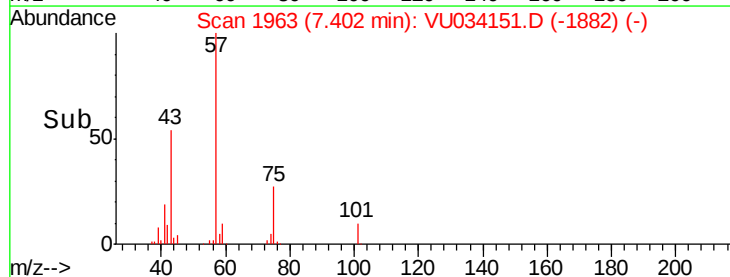
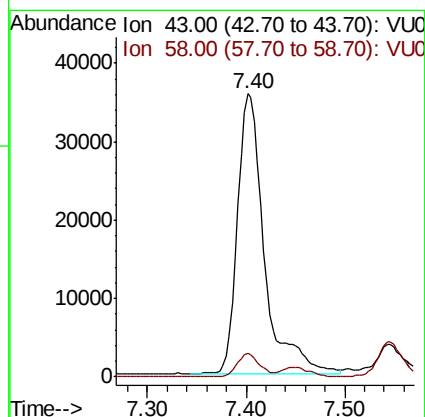
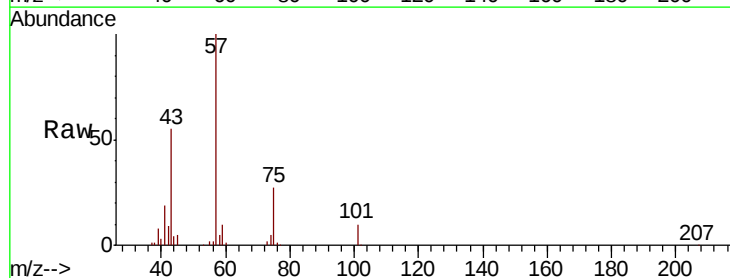
Acq: 01 Sep 2019 03:19

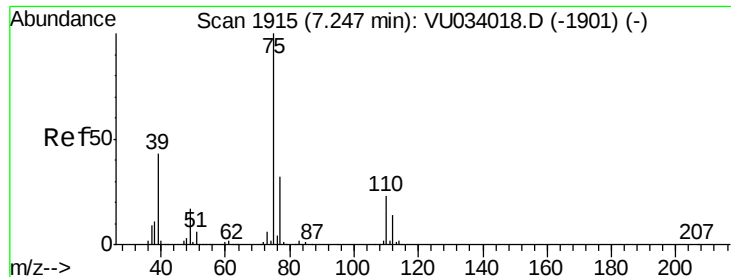
Tgt Ion: 43 Resp: 67964

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



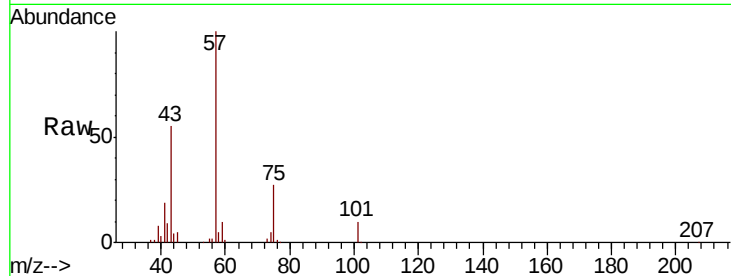


#54

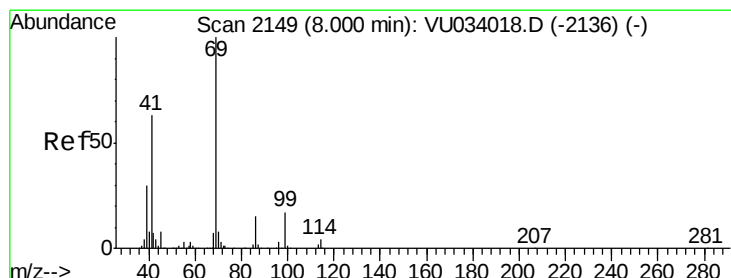
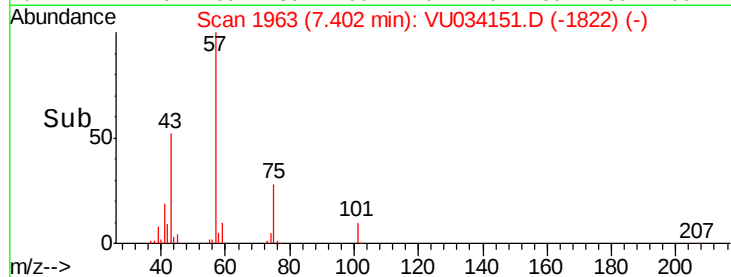
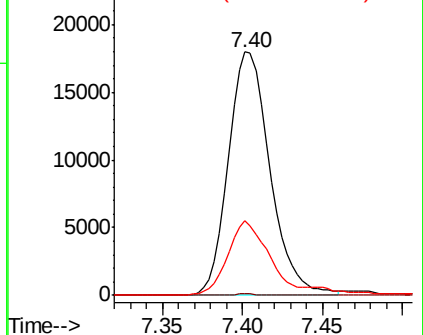
cis-1,3-Dichloropropene
 Concen: 3.649 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(1.9)

Tgt Ion: 75 Resp: 31990
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 30.4 34.6 51.8#



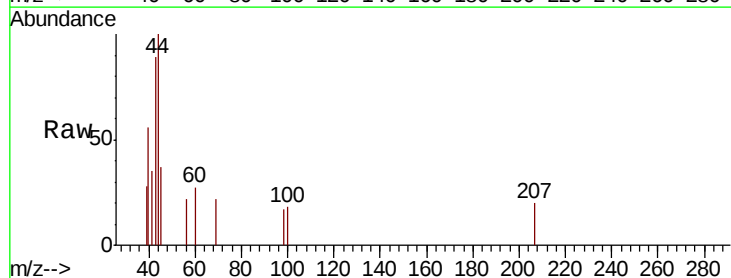
Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0
 Ion 39.00 (38.70 to 39.70): VU0



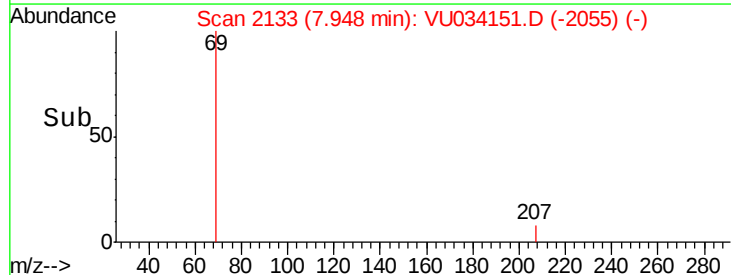
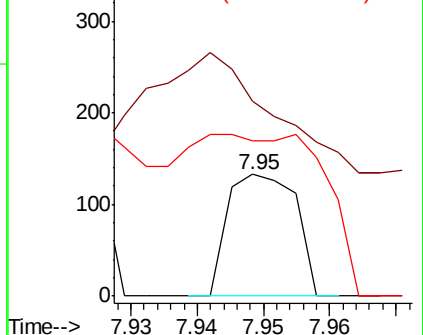
#56

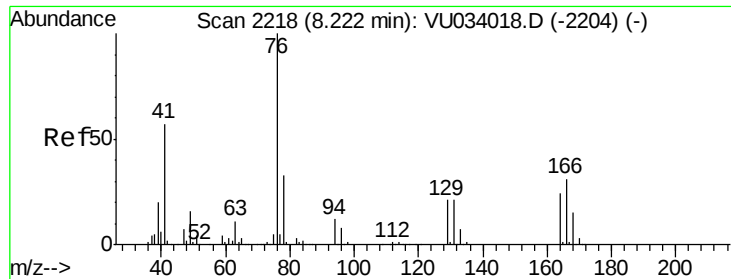
Ethyl methacrylate
 Concen: 0.982 ug/l
 RT: 7.95 min Scan# 2133
 Delta R.T. -0.05 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Tgt Ion: 69 Resp: 95
 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

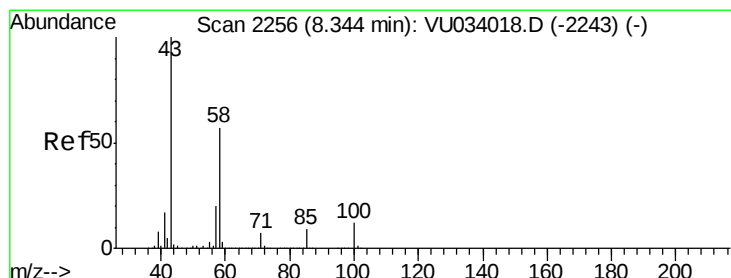
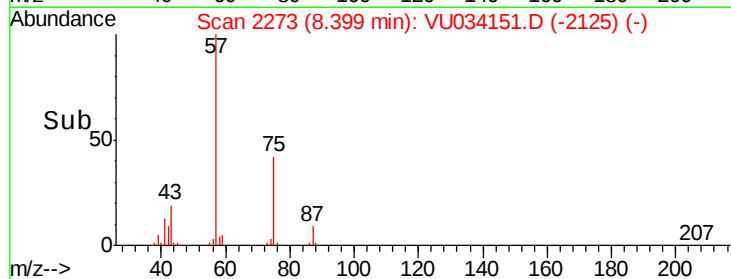
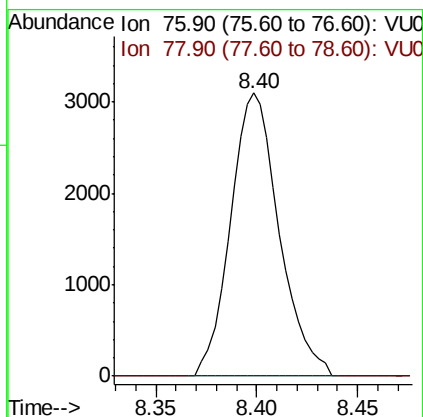
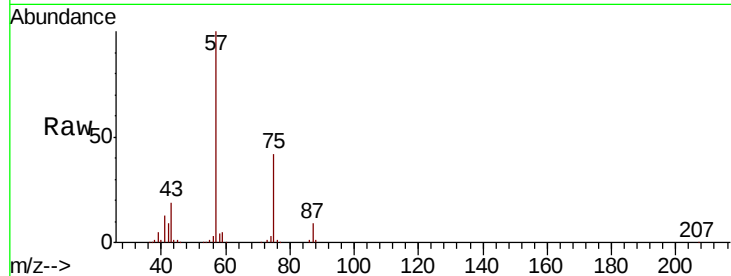




#57
 1,3-Dichloropropane
 Concen: 0.565 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

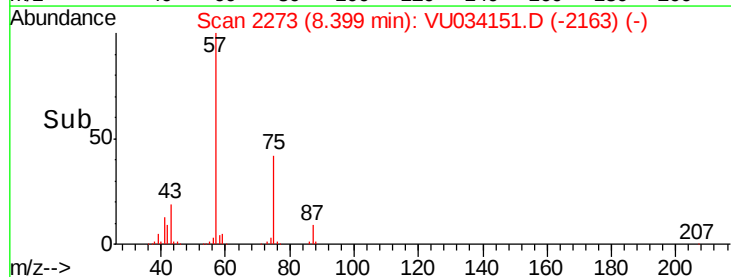
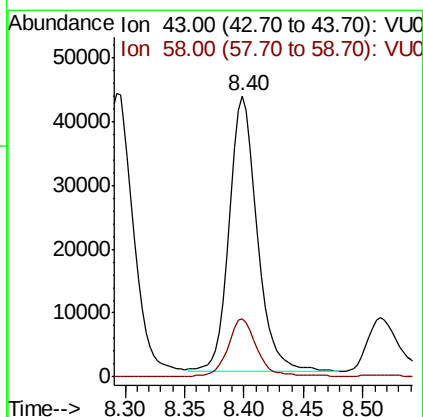
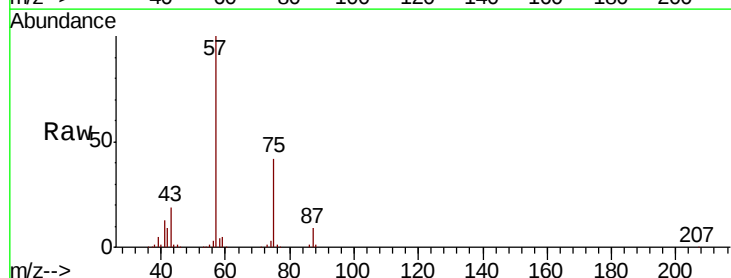
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(1.9)

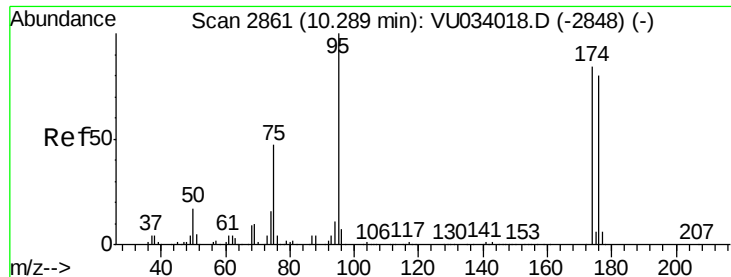
Tgt Ion: 76 Resp: 5208
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 11.493 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Tgt Ion: 43 Resp: 70321
 Ion Ratio Lower Upper
 43 100
 58 22.7 28.4 85.3#

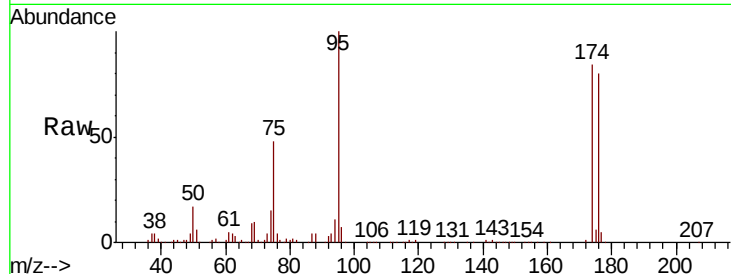




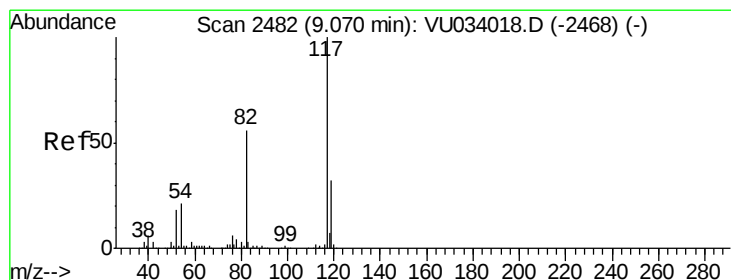
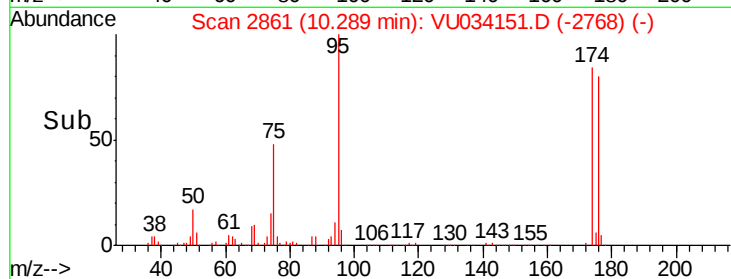
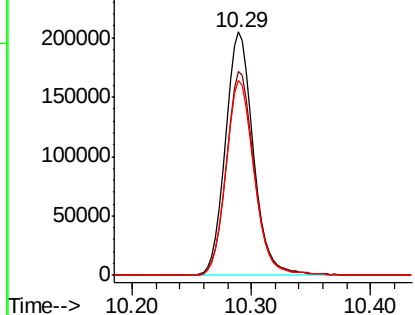
#62
4-Bromofluorobenzene
Concen: 45.345 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(1.9)

Tgt Ion: 95 Resp: 333643
Ion Ratio Lower Upper
95 100
174 84.3 0.0 168.8
176 80.9 0.0 161.8

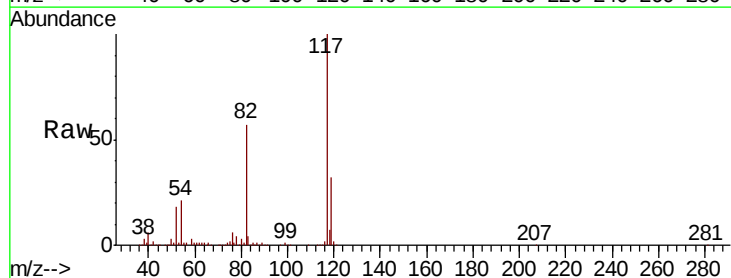


Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)
Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)
Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)

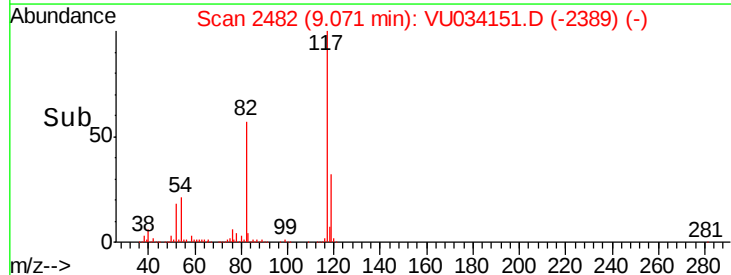
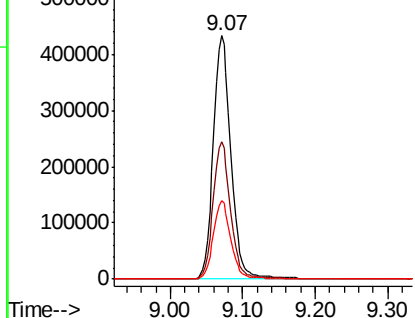


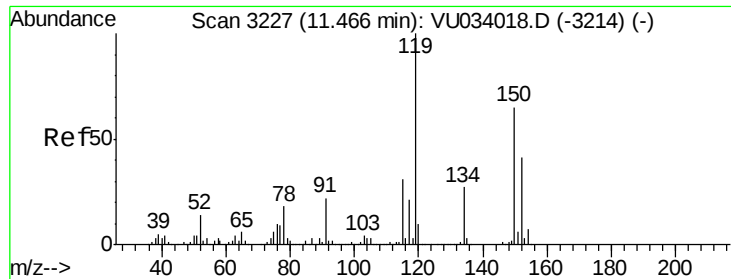
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034151.D
Acq: 01 Sep 2019 03:19

Tgt Ion: 117 Resp: 730514
Ion Ratio Lower Upper
117 100
82 56.5 45.1 67.7
119 32.1 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)
Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)
Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034151.D

Acq: 01 Sep 2019 03:19

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(1.9)

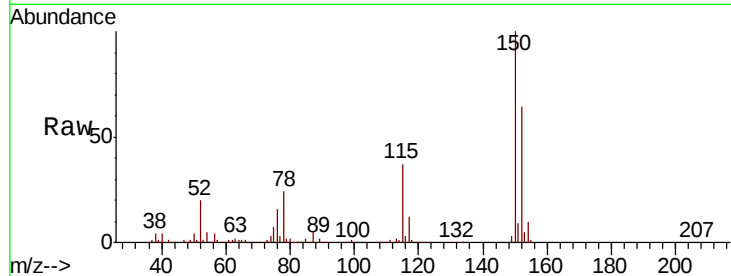
Tgt Ion:152 Resp: 359063

Ion Ratio Lower Upper

152 100

115 56.8 41.1 123.3

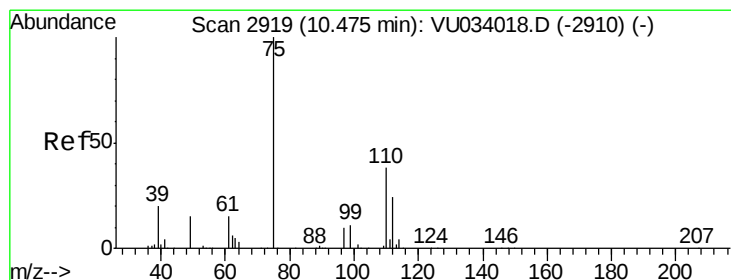
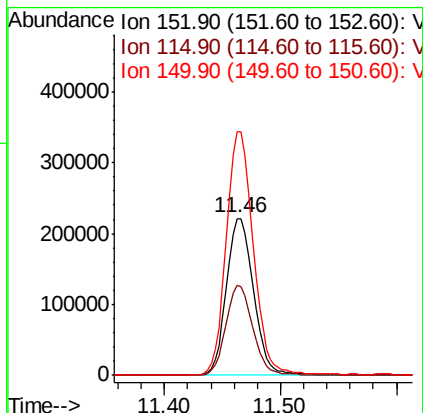
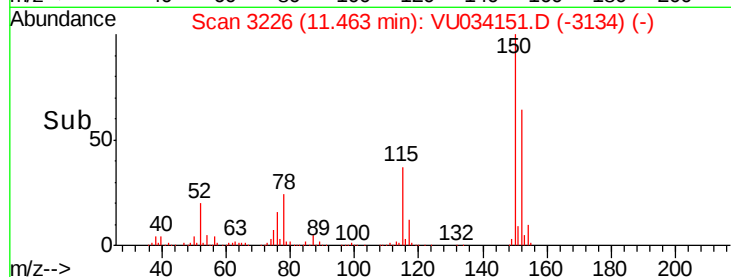
150 154.7 0.0 348.8



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: 19.928 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034151.D

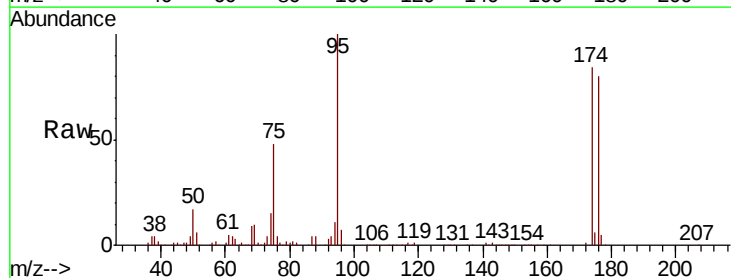
Acq: 01 Sep 2019 03:19

Tgt Ion: 75 Resp: 161272

Ion Ratio Lower Upper

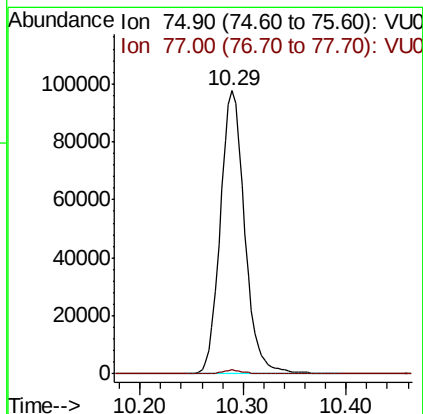
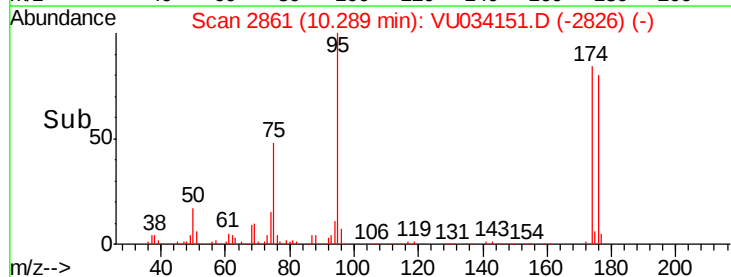
75 100

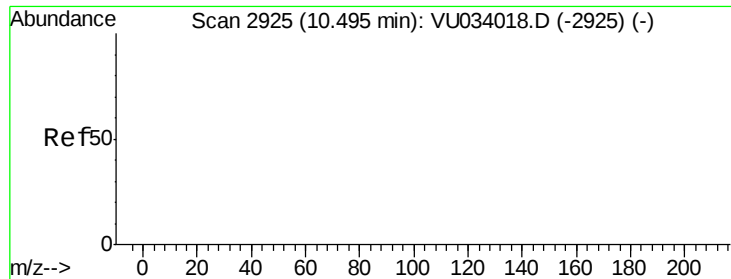
77 1.2 20.1 60.2#



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: 67.103 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034151.D
 Acq: 01 Sep 2019 03:19

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(1.9)

Tgt Ion: 75 Resp: 161272
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

