

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034045.D
 Acq On : 28 Aug 2019 23:54
 Operator : JC/SP
 Sample : K4525-35
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

Quant Time: Aug 29 04:21:43 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	466482	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	754880	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	738521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	364662	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	295488	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
35) Dibromofluoromethane	4.86	113	247135	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	7.55	98	976410	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	10.29	95	343966	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	

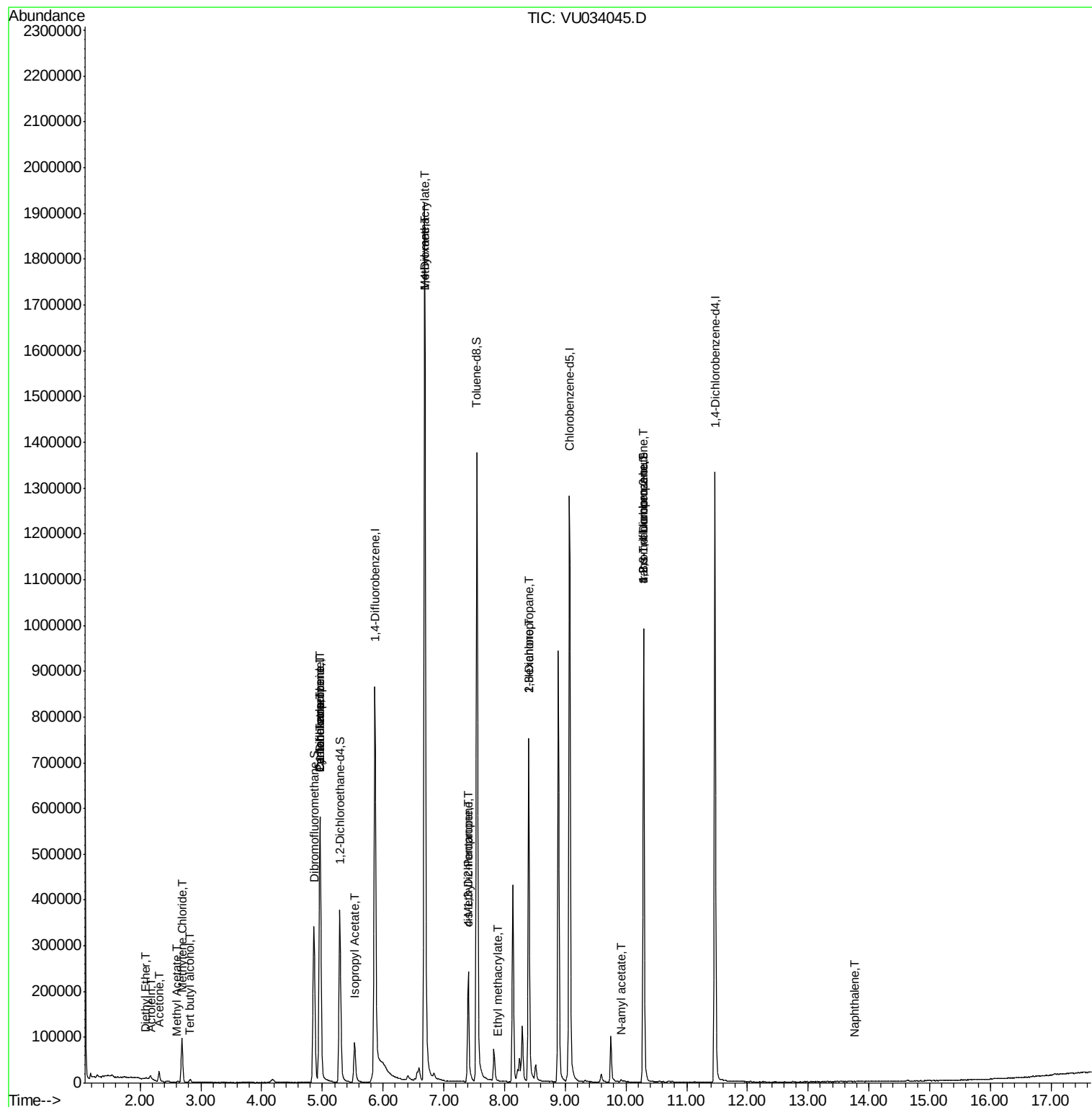
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	684	Below Cal	#	82
5) Bromomethane	1.57	94	20	Below Cal	#	2
8) Diethyl Ether	2.10	74	1069	0.345	ug/l	68
11) Tert butyl alcohol	2.82	59	3954	2.869	ug/l #	73
13) Acrolein	2.19	56	175	0.302	ug/l #	1
16) Acetone	2.31	43	25282	8.290	ug/l	95
18) Methyl Acetate	2.61	43	3854	0.489	ug/l #	81
20) Methylene Chloride	2.69	84	42865	7.424	ug/l	98
31) Cyclohexane	4.96	56	8388	0.940	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34092	4.775	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42682	6.193	ug/l #	17
43) Isopropyl Acetate	5.53	43	102085	8.392	ug/l	98
48) Methyl methacrylate	6.68	41	173042	29.480	ug/l #	40
49) 1,4-Dioxane	6.68	88	208	1.414	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	93788	11.164	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	44528	4.900	ug/l #	63
56) Ethyl methacrylate	7.90	69	343	1.008	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	7722	0.808	ug/l #	42
59) 2-Hexanone	8.40	43	105484	16.633	ug/l #	53
74) N-amyl acetate	9.92	43	3384	0.328	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	165365	20.120	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	165365	67.750	ug/l #	100
95) Naphthalene	13.77	128	47	1.792	ug/l #	70

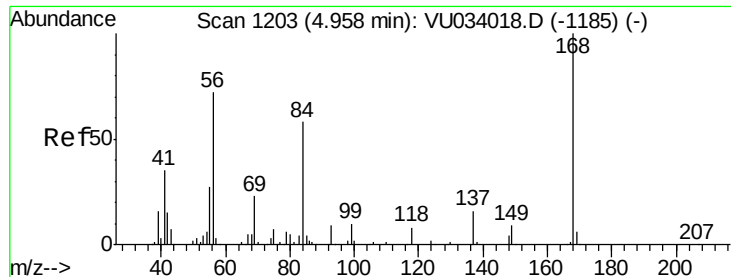
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1204

Delta R.T. 0.00 min

Lab File: VU034045.D

Acq: 28 Aug 2019 23:54

Instrument :

MSVOA_U

ClientSampleId :

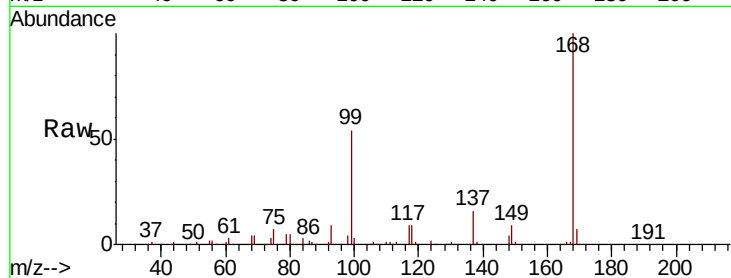
T9-12-13-B1-(1.9)

Tgt Ion:168 Resp: 466482

Ion Ratio Lower Upper

168 100

99 54.0 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

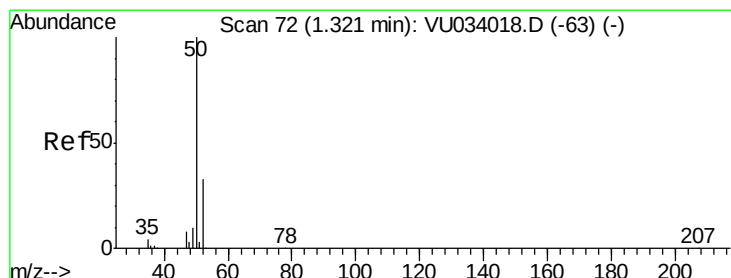
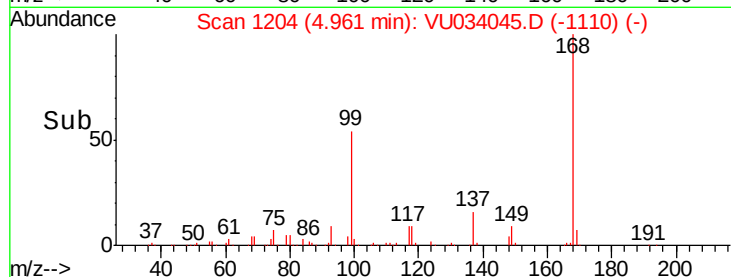
100000

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: VU034045.D

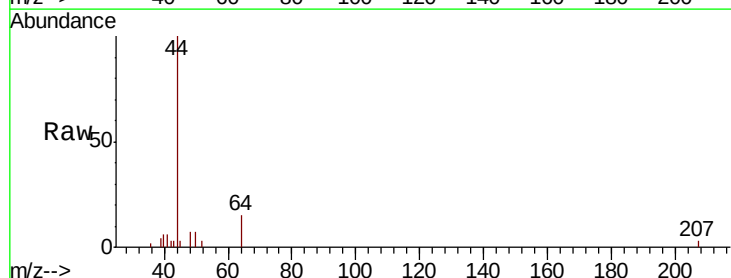
Acq: 28 Aug 2019 23:54

Tgt Ion: 50 Resp: 684

Ion Ratio Lower Upper

50 100

52 43.2 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

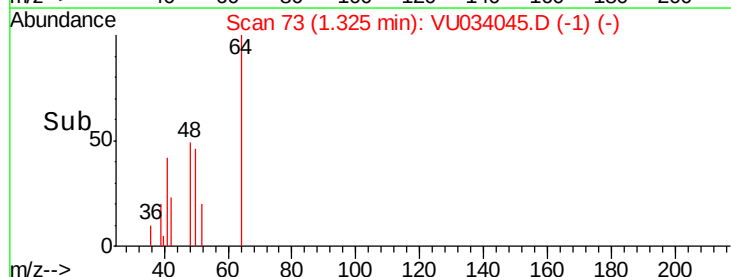
400

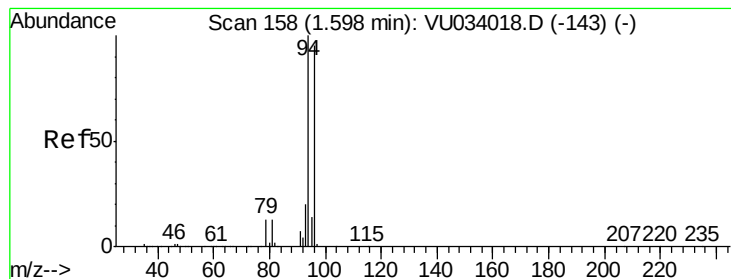
200

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.57 min Scan# 150

Delta R.T. -0.03 min

Lab File: VU034045.D

Acq: 28 Aug 2019 23:54

Instrument :

MSVOA_U

ClientSampleId :

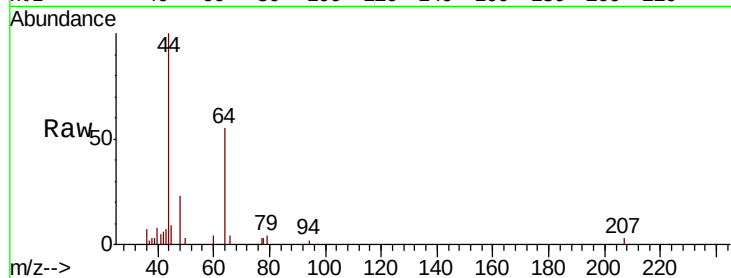
T9-12-13-B1-(1.9)

Tgt Ion: 94 Resp: 20

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

1.57

100

80

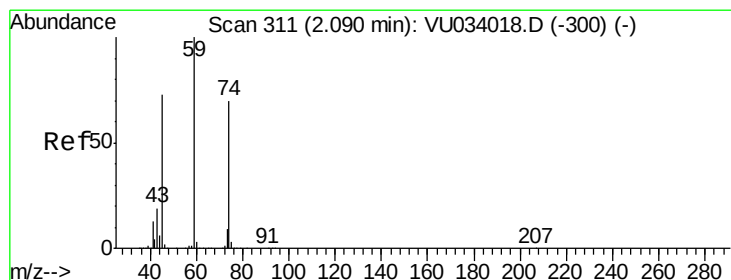
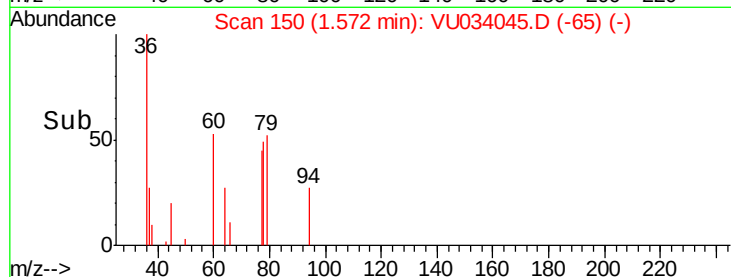
60

40

20

0

Time--> 1.56 1.56 1.57 1.58 1.58



#8

Diethyl Ether

Concen: 0.345 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034045.D

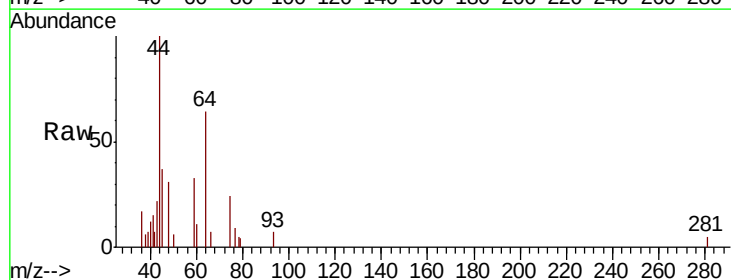
Acq: 28 Aug 2019 23:54

Tgt Ion: 74 Resp: 1069

Ion Ratio Lower Upper

74 100

45 136.4 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

1200

1000

800

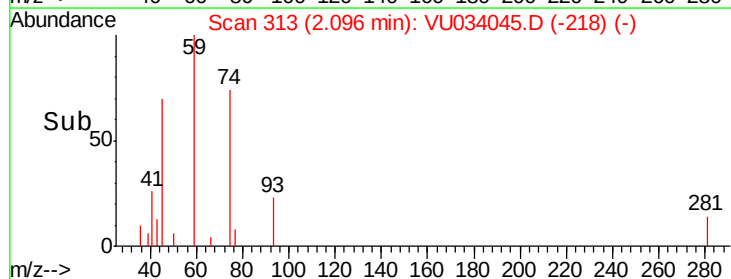
600

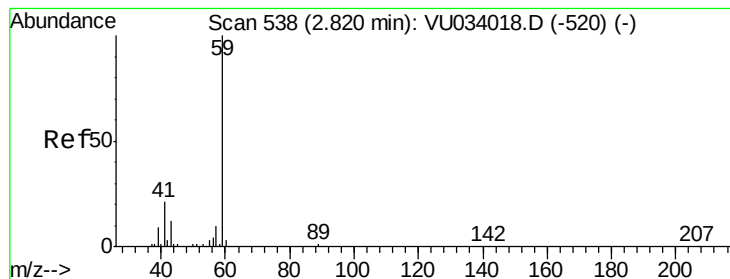
400

200

0

Time--> 2.05 2.10



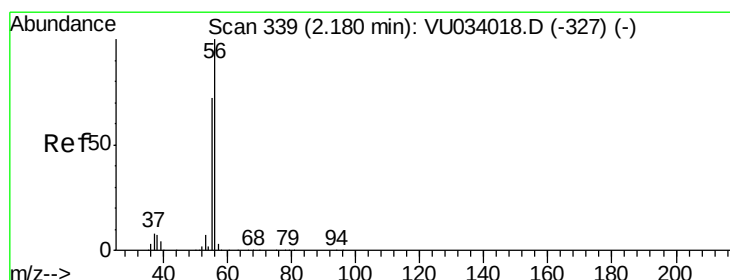
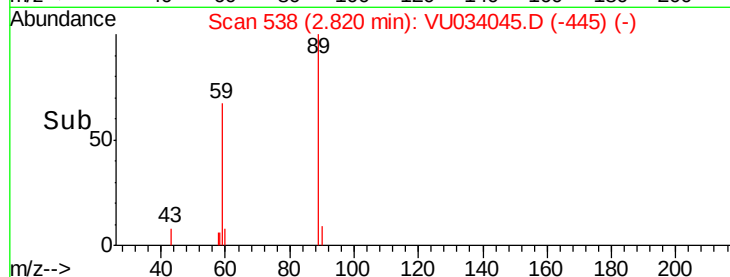
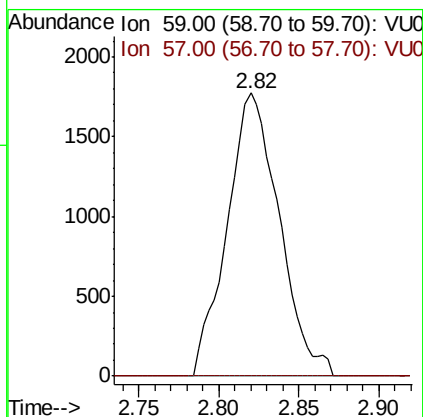
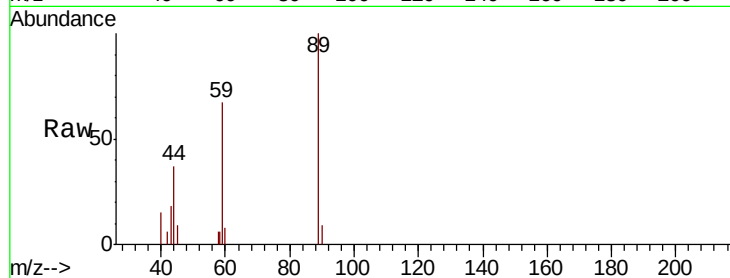


#11

Tert butyl alcohol
 Concen: 2.869 ug/l
 RT: 2.82 min Scan# 538
 Delta R.T. -0.00 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

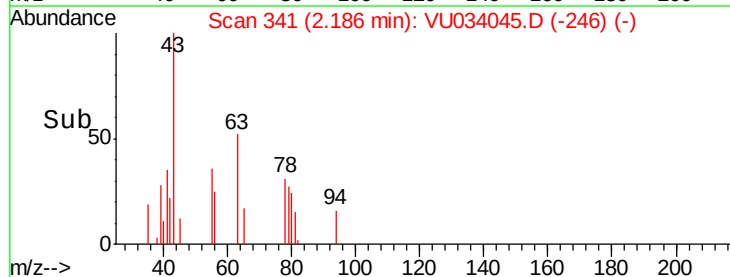
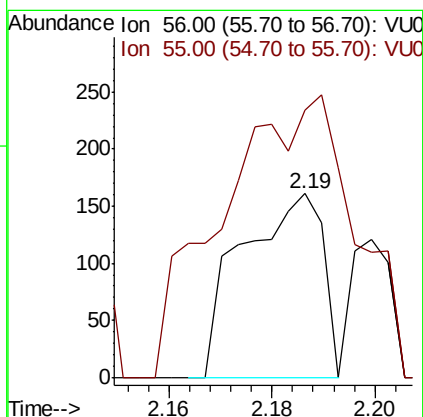
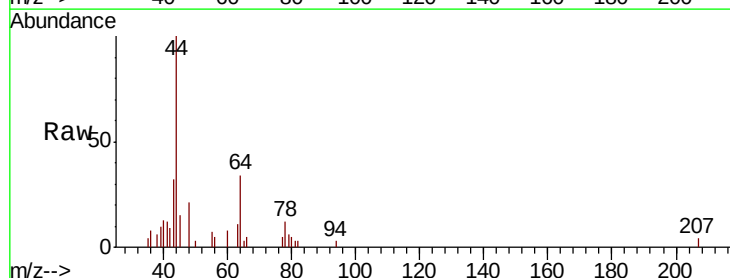
Tgt Ion: 59 Resp: 3954
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

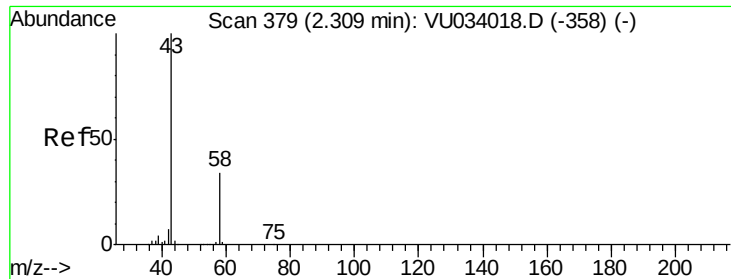


#13

Acrolein
 Concen: 0.302 ug/l
 RT: 2.19 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 56 Resp: 175
 Ion Ratio Lower Upper
 56 100
 55 252.0 57.1 85.7#





#16

Acetone

Concen: 8.290 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034045.D

Acq: 28 Aug 2019 23:54

Instrument :

MSVOA_U

ClientSampleId :

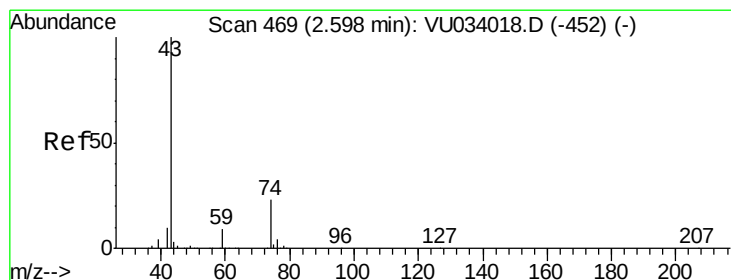
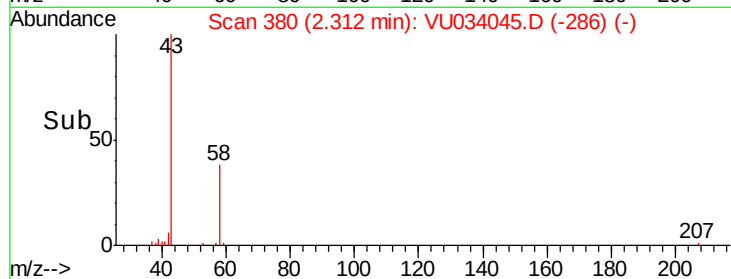
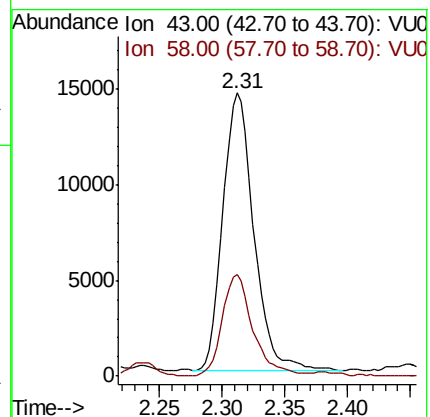
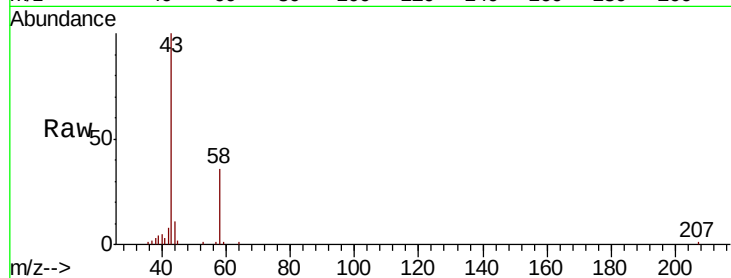
T9-12-13-B1-(1.9)

Tgt Ion: 43 Resp: 25282

Ion Ratio Lower Upper

43 100

58 36.4 26.8 40.2



#18

Methyl Acetate

Concen: 0.489 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034045.D

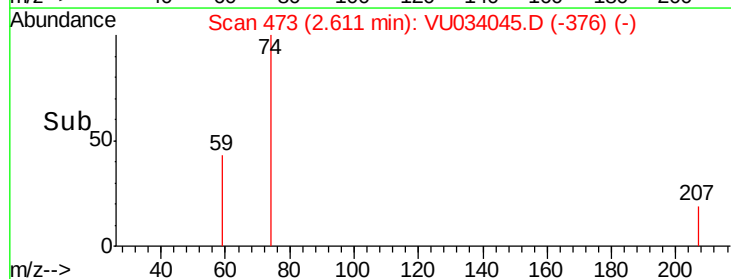
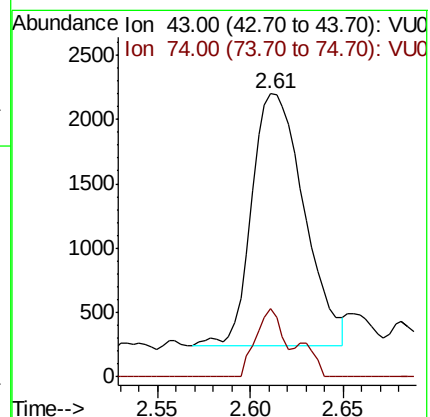
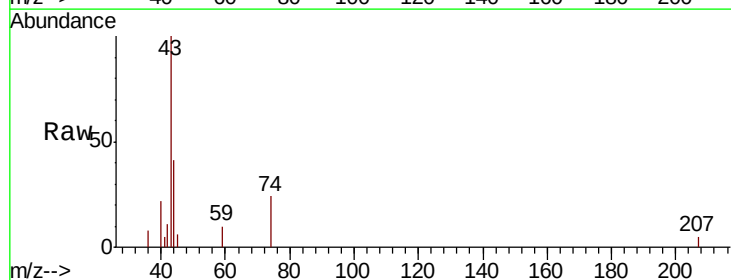
Acq: 28 Aug 2019 23:54

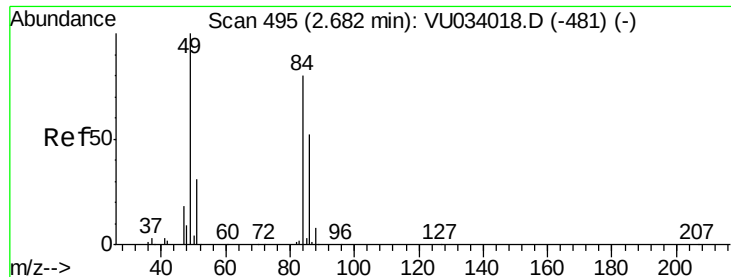
Tgt Ion: 43 Resp: 3854

Ion Ratio Lower Upper

43 100

74 14.9 19.2 28.8#

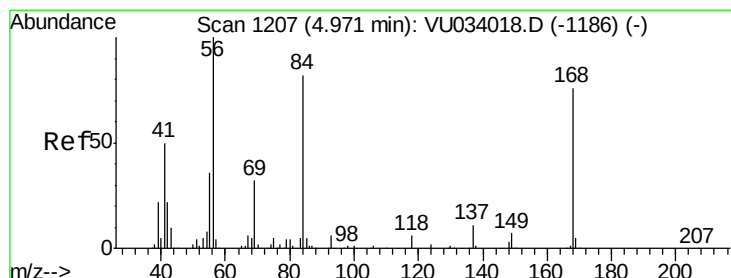
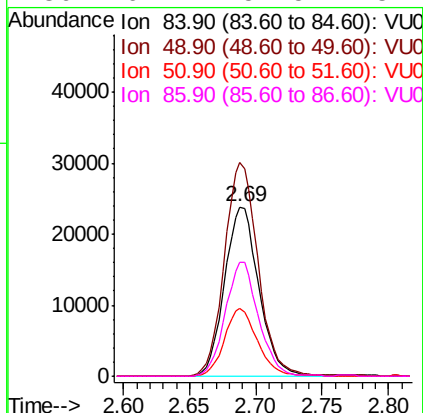
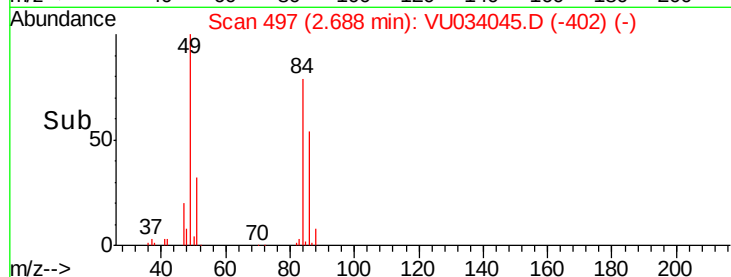
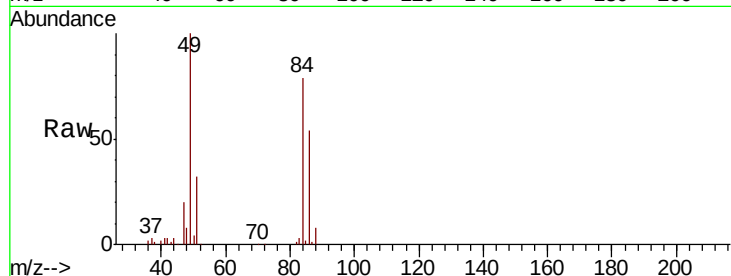




#20
Methylene Chloride
Concen: 7.424 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

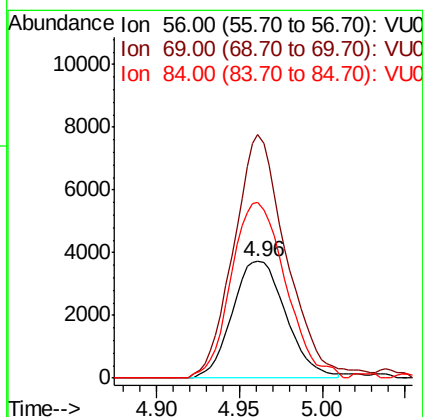
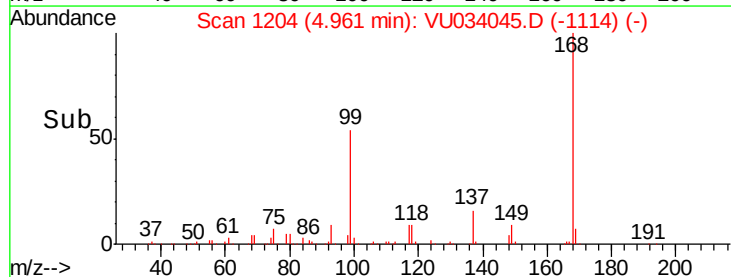
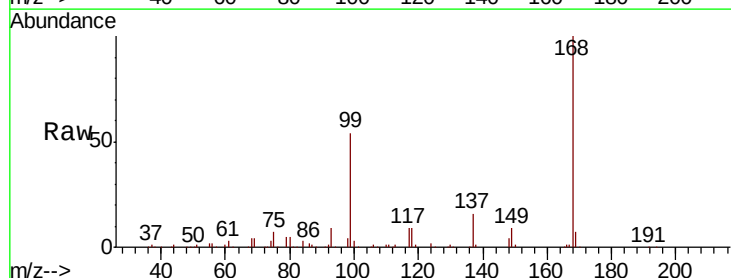
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T9-12-13-B1-(1.9)

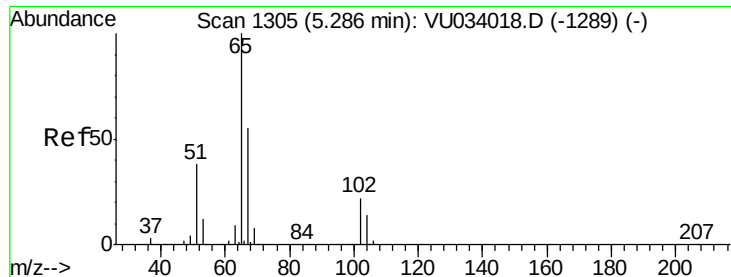
Tgt Ion:	84	Resp:	42865
Ion	Ratio	Lower	Upper
84	100		
49	126.3	100.2	150.4
51	40.0	30.8	46.2
86	67.7	52.5	78.7



#31
Cyclohexane
Concen: 0.940 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Tgt Ion:	56	Resp:	8388
Ion	Ratio	Lower	Upper
56	100		
69	208.7	25.4	38.0#
84	150.2	65.8	98.8#

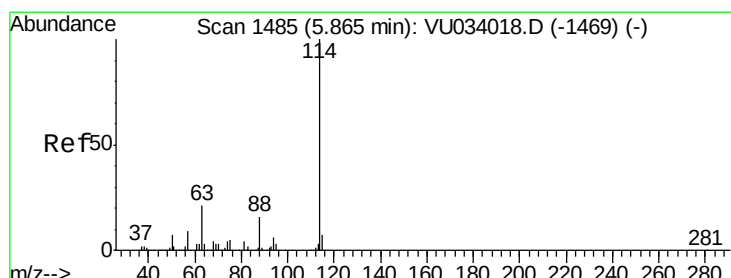
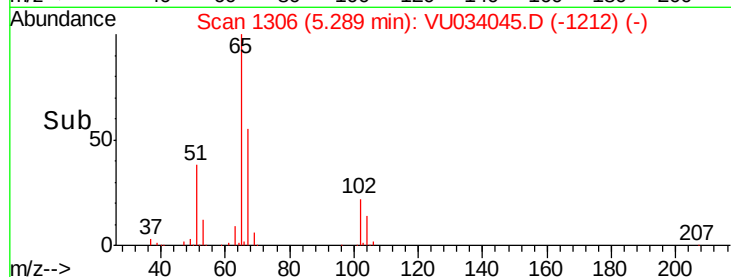
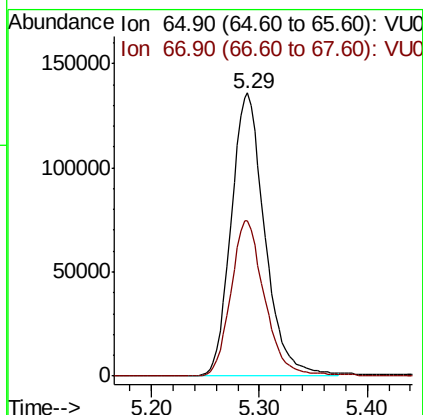
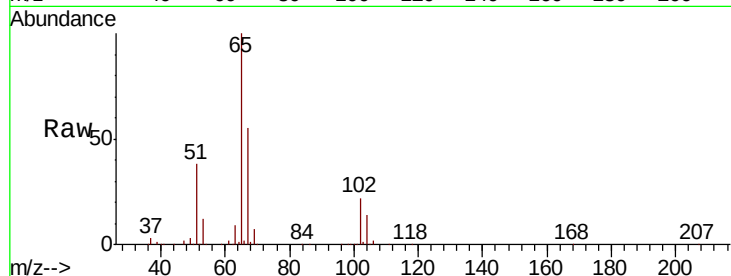




#33
 1,2-Dichloroethane-d4
 Concen: 49.436 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

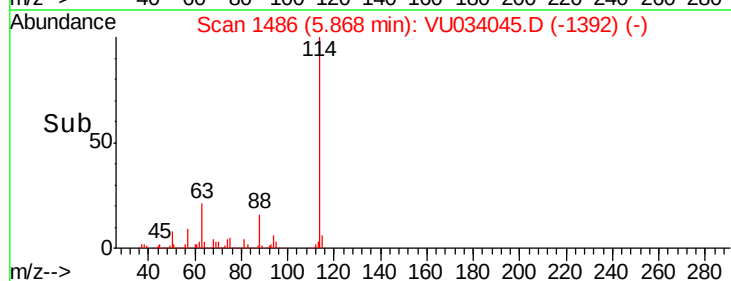
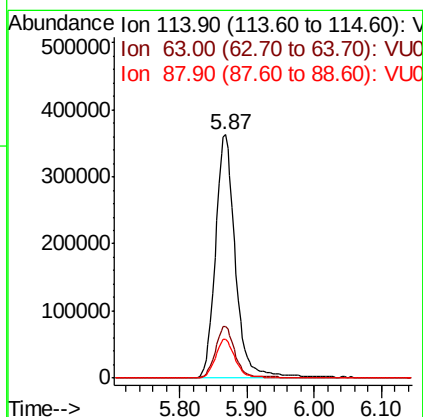
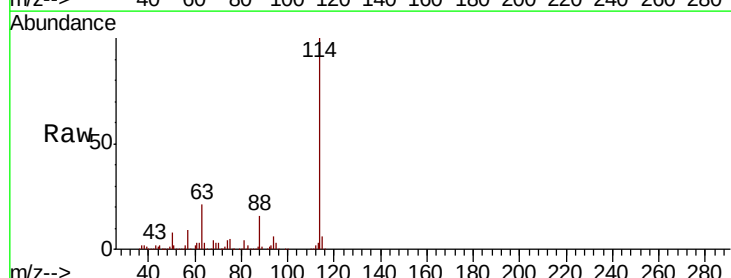
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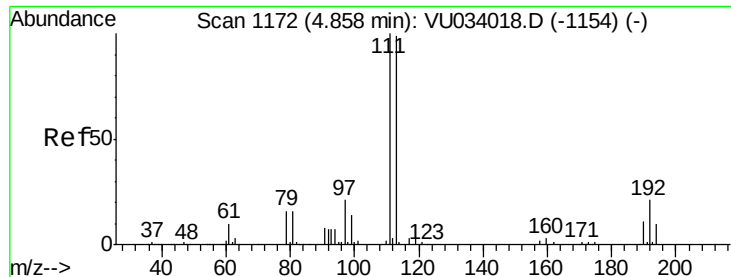
Tgt Ion: 65 Resp: 295488
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 114 Resp: 754880
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 42.0
 88 15.8 0.0 32.0

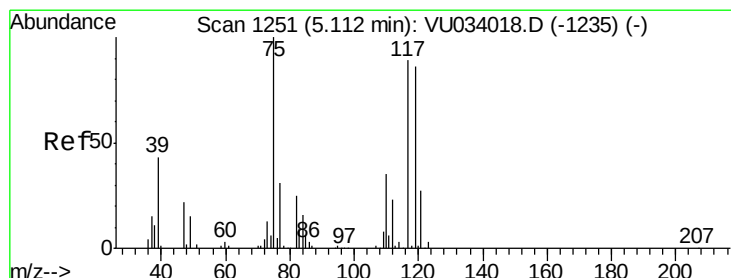
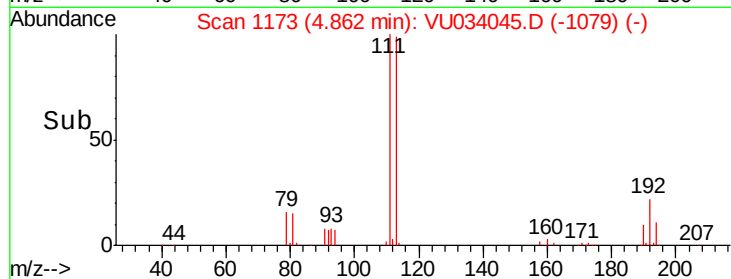
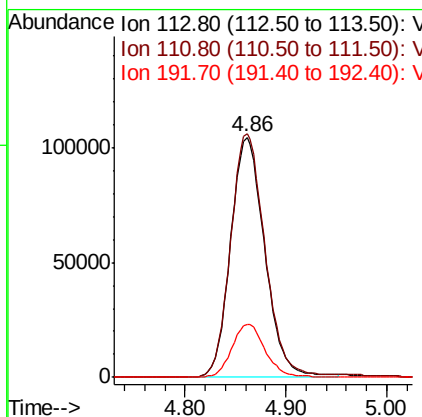
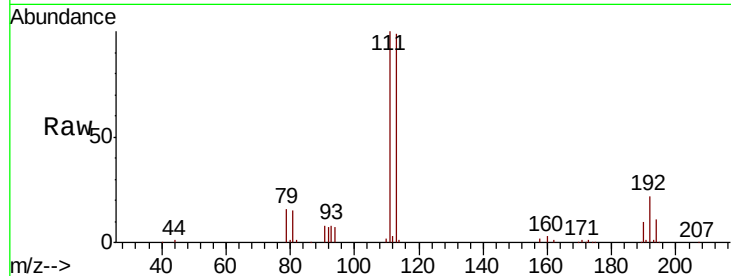




#35
 Dibromofluoromethane
 Concen: 47.201 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

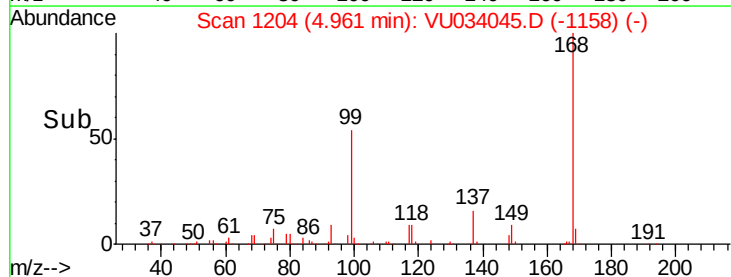
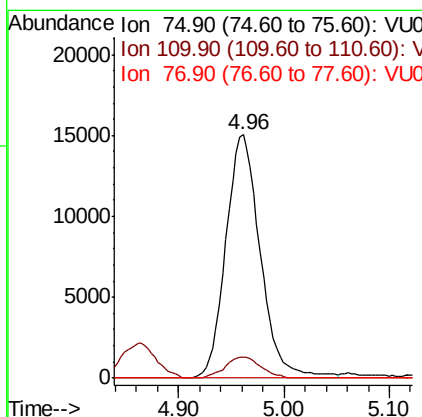
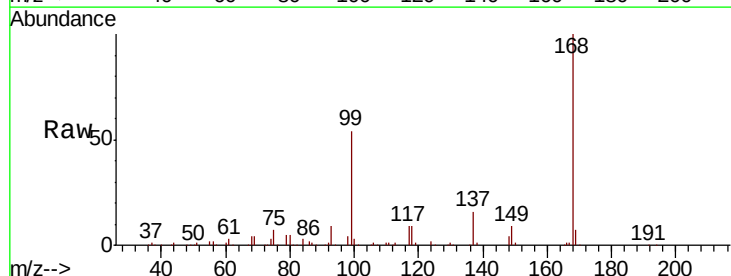
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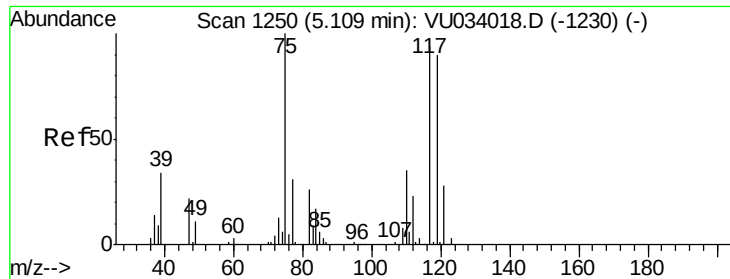
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	247135		
111	101.6	81.7	122.5	
192	21.8	17.1	25.7	



#36
 1,1-Dichloropropene
 Concen: 4.775 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	34092		
110	8.8	17.8	53.5#	
77	0.0	25.0	37.4#	





#38

Carbon Tetrachloride

Concen: 6.193 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034045.D

Acq: 28 Aug 2019 23:54

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B1-(1.9)

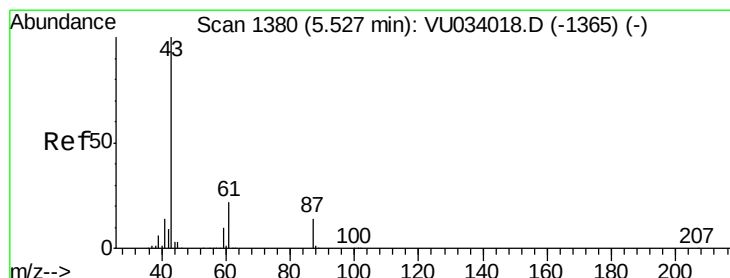
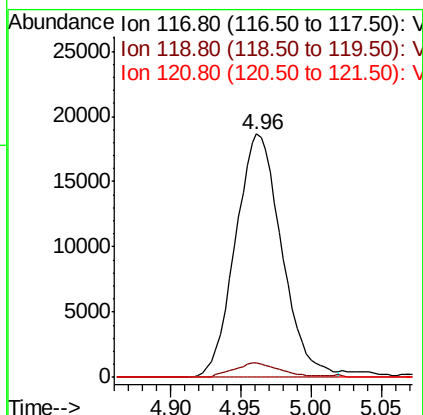
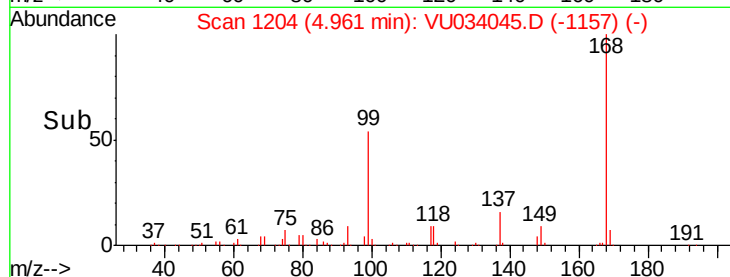
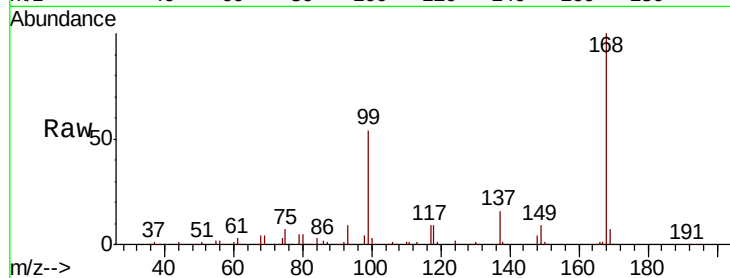
Tgt Ion:117 Resp: 42682

Ion Ratio Lower Upper

117 100

119 6.0 77.0 115.4#

121 0.0 23.9 35.9#



#43

Isopropyl Acetate

Concen: 8.392 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034045.D

Acq: 28 Aug 2019 23:54

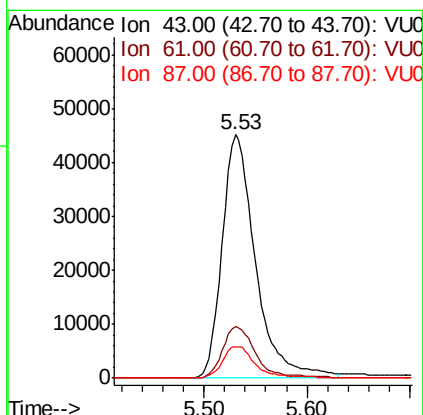
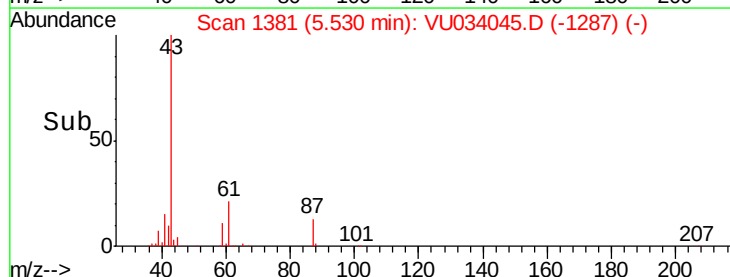
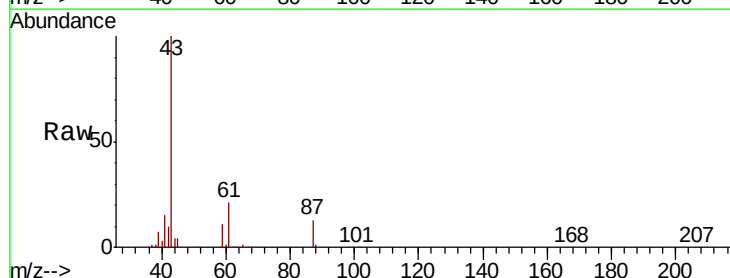
Tgt Ion: 43 Resp: 102085

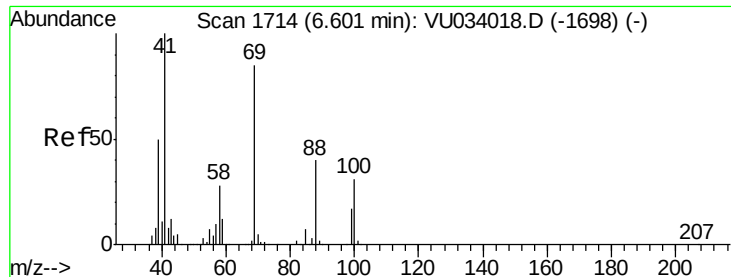
Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

87 12.6 10.8 16.2

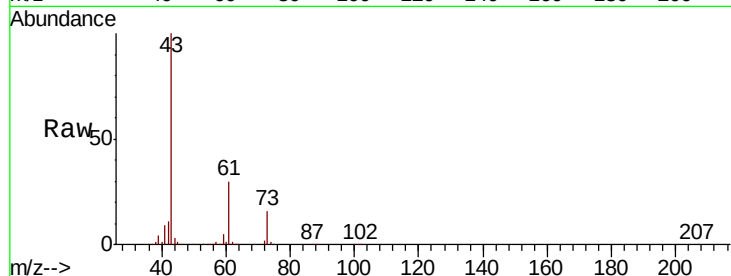




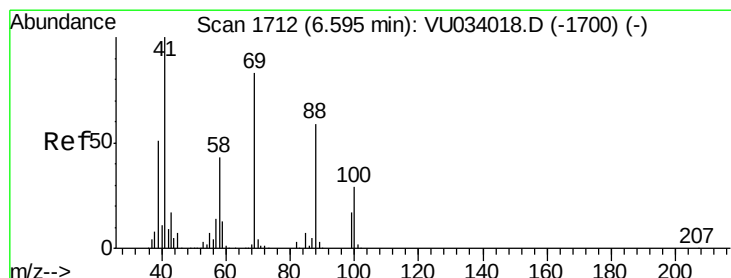
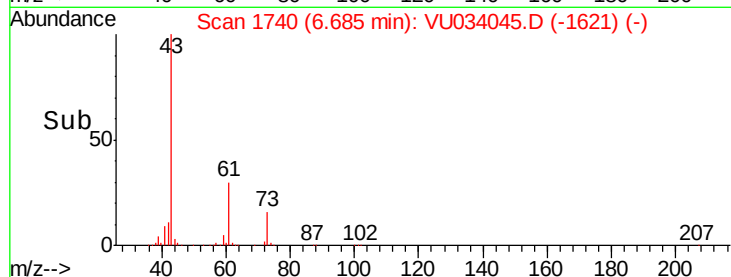
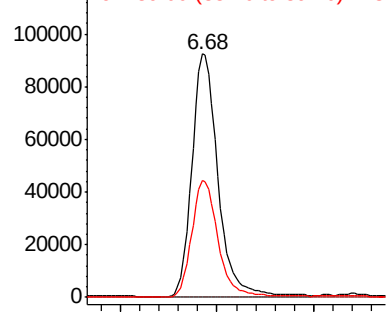
#48
Methyl methacrylate
Concen: 29.480 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(1.9)

Tgt Ion: 41 Resp: 173042
Ion Ratio Lower Upper
41 100
69 0.1 69.5 104.3#
39 49.3 40.3 60.5

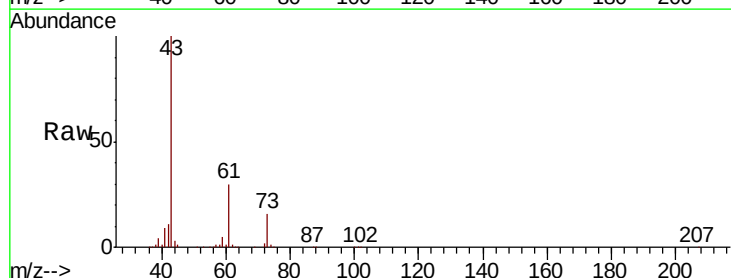


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

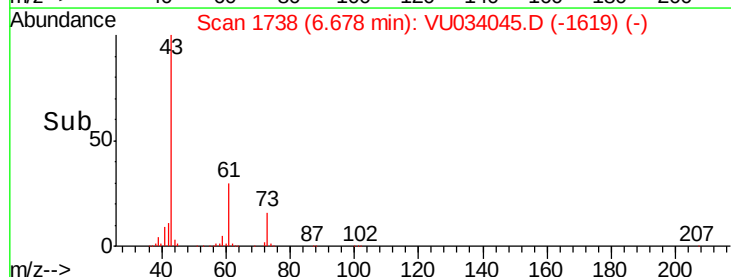
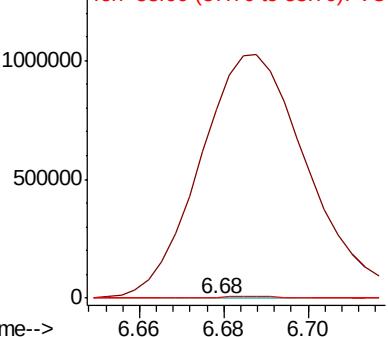


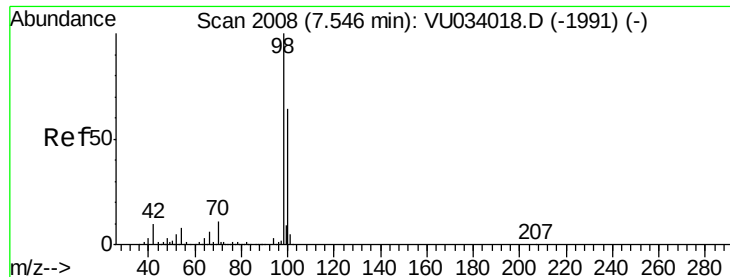
#49
1,4-Dioxane
Concen: 1.414 ug/l
RT: 6.68 min Scan# 1738
Delta R.T. 0.08 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Tgt Ion: 88 Resp: 208
Ion Ratio Lower Upper
88 100
43 918487.0 24.8 37.2#
58 4649.0 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

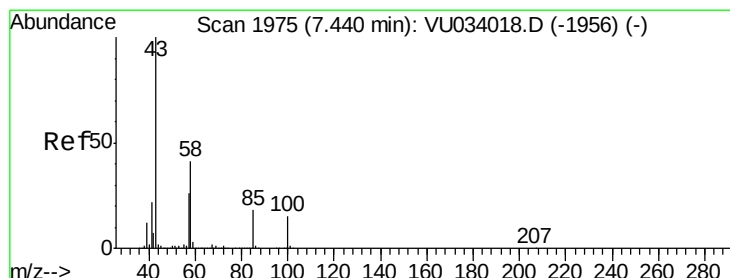
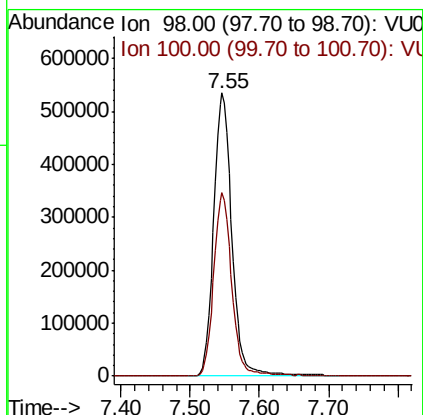
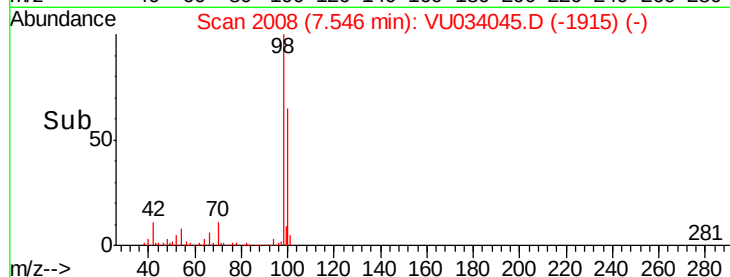
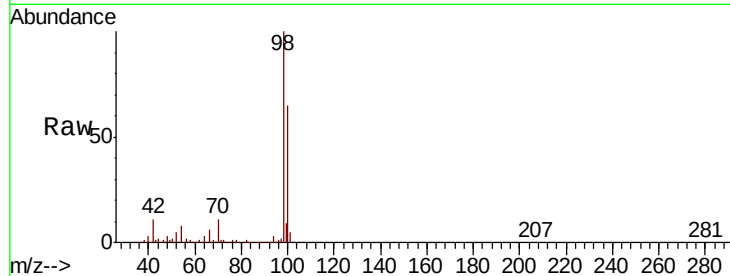




#50
Toluene-d8
Concen: 49.805 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

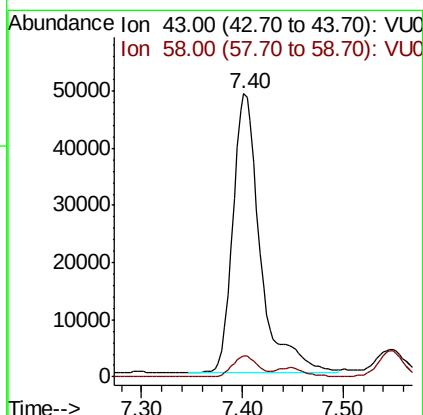
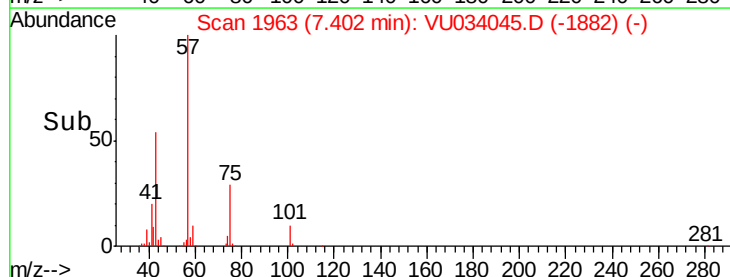
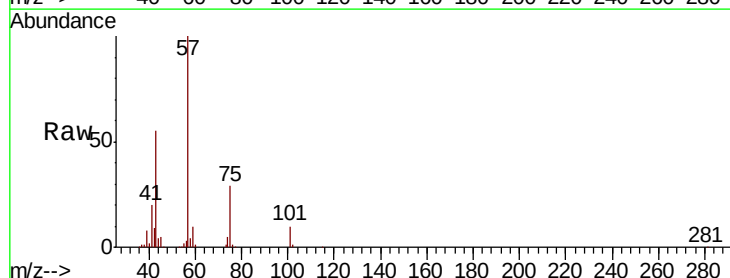
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(1.9)

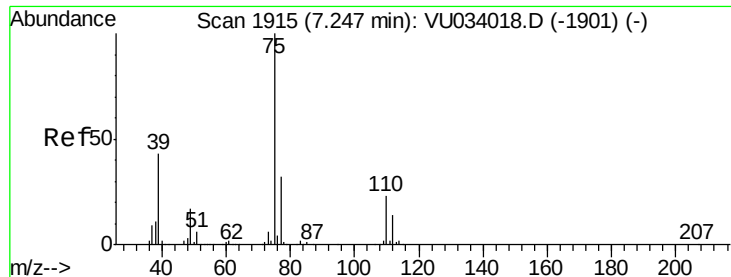
Tgt Ion: 98 Resp: 976410
Ion Ratio Lower Upper
98 100
100 64.0 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 11.164 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Tgt Ion: 43 Resp: 93788
Ion Ratio Lower Upper
43 100
58 7.0 32.2 48.4#



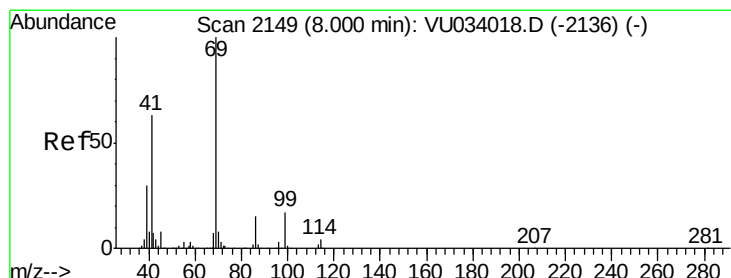
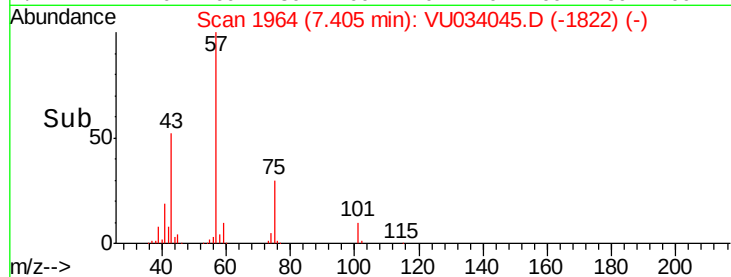
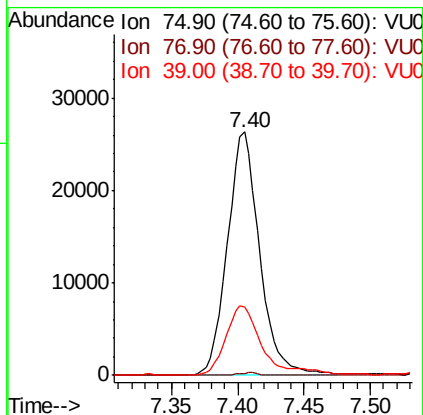
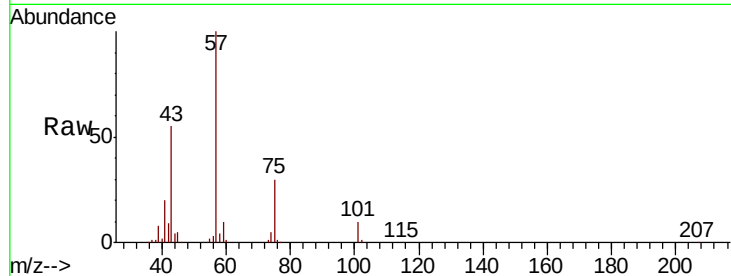


#54

cis-1,3-Dichloropropene
 Concen: 4.900 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

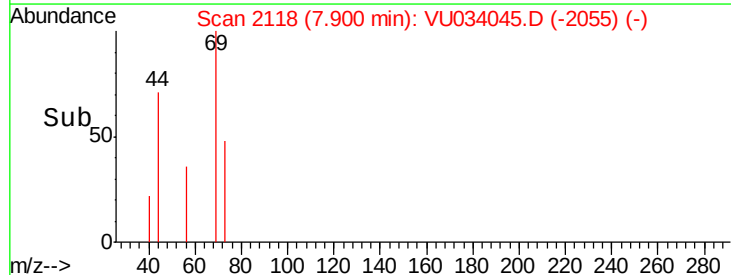
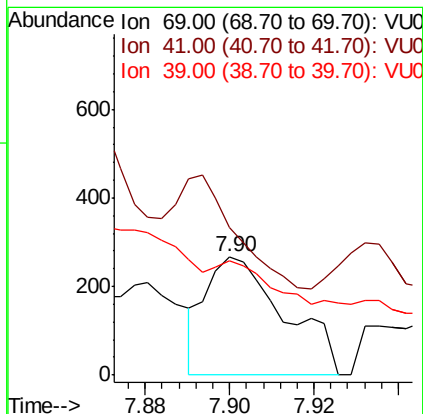
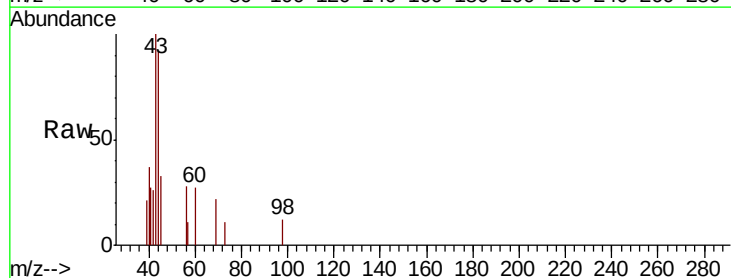
Tgt Ion: 75 Resp: 44528
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 27.9 34.6 51.8#

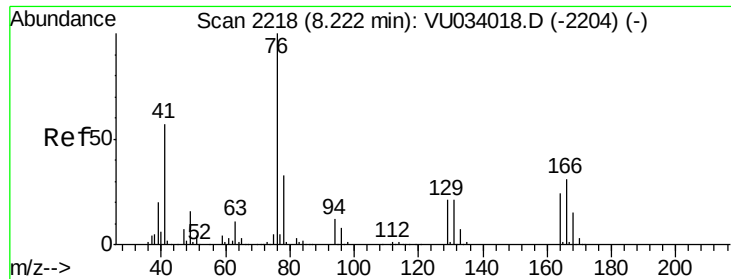


#56

Ethyl methacrylate
 Concen: 1.008 ug/l
 RT: 7.90 min Scan# 2118
 Delta R.T. -0.10 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 69 Resp: 343
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

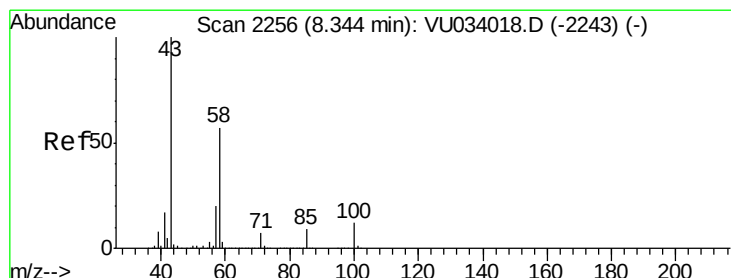
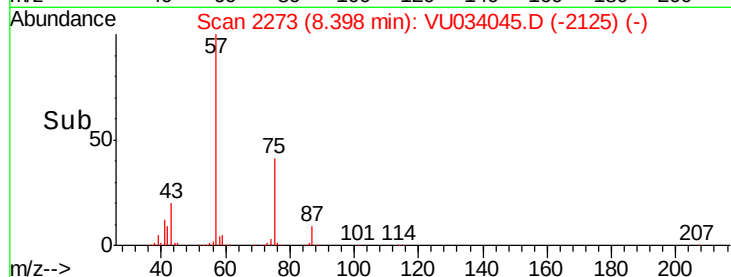
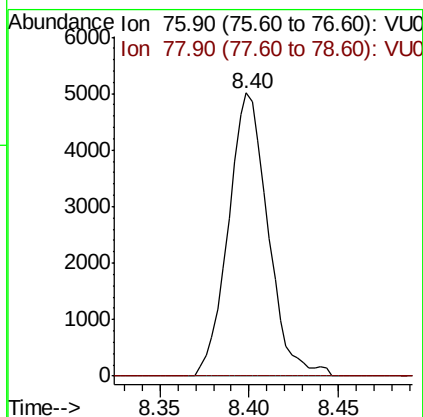
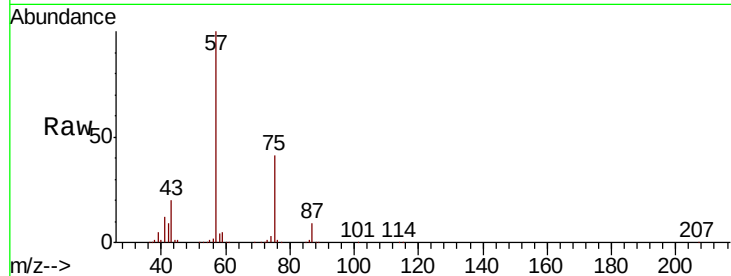




#57
 1,3-Dichloropropane
 Concen: 0.808 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

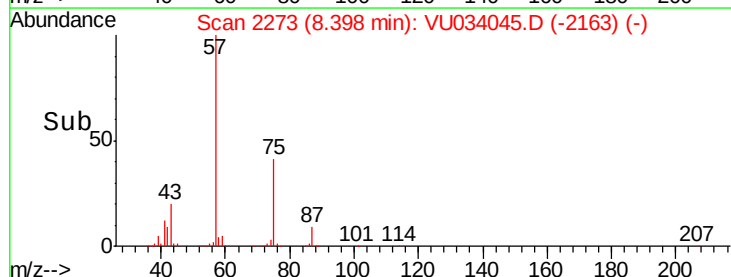
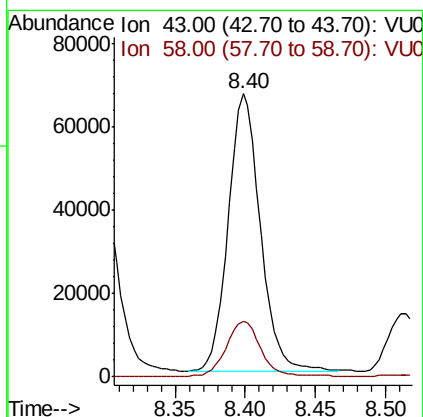
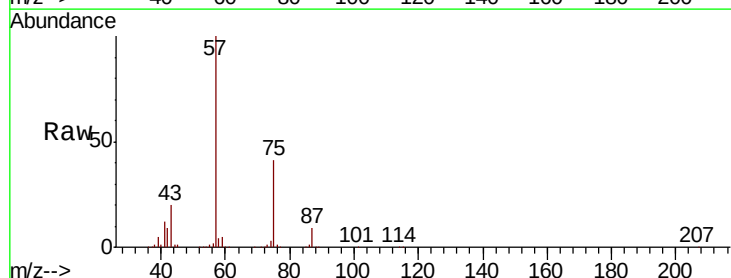
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

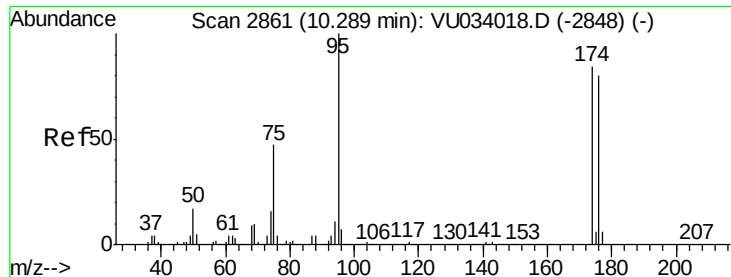
Tgt Ion: 76 Resp: 7722
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 16.633 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 43 Resp: 105484
 Ion Ratio Lower Upper
 43 100
 58 22.3 28.4 85.3#

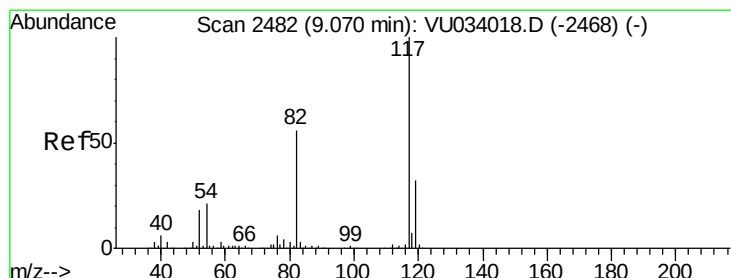
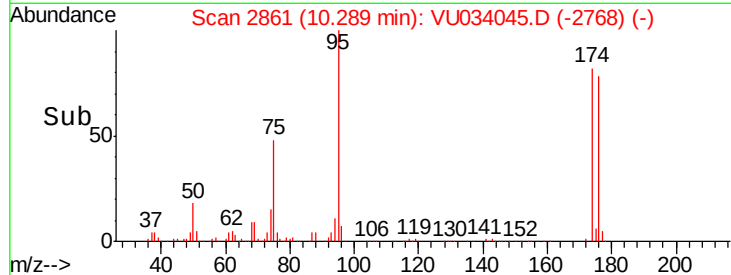
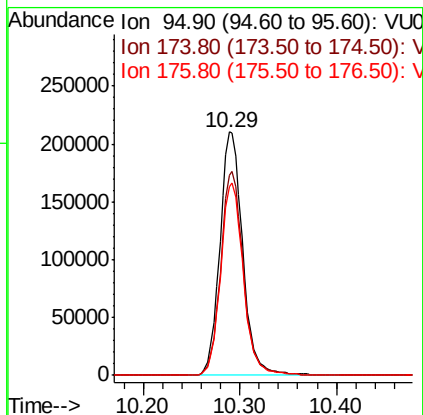
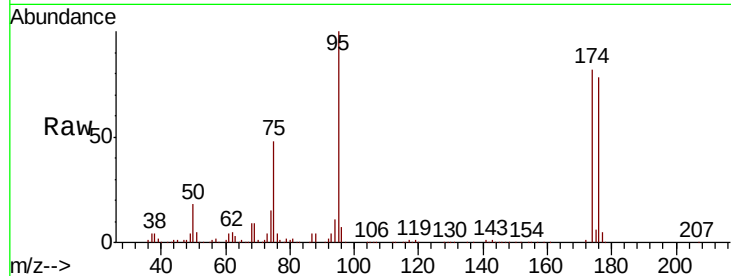




#62
4-Bromofluorobenzene
Concen: 45.104 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

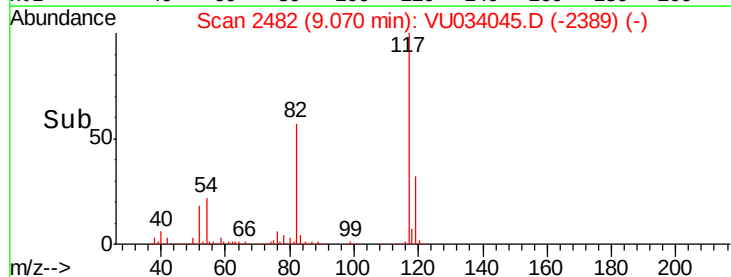
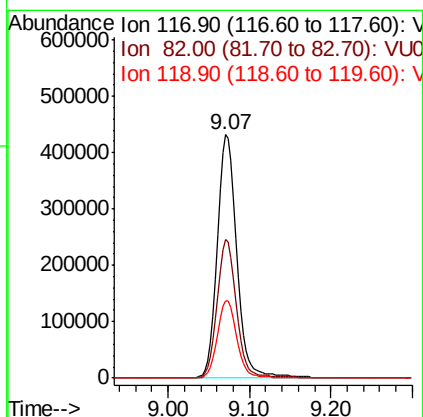
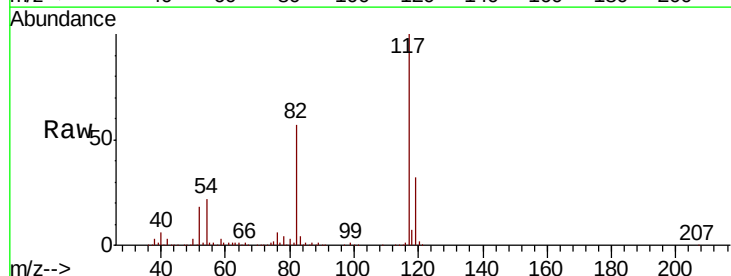
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(1.9)

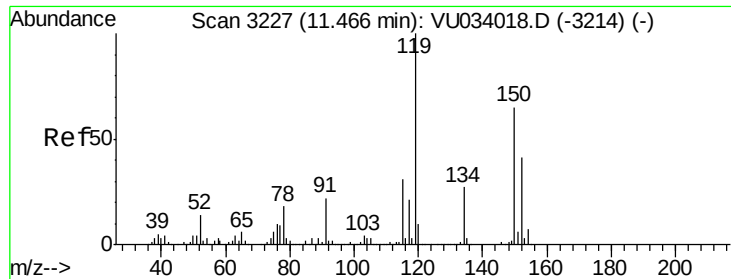
Tgt Ion: 95 Resp: 343966
Ion Ratio Lower Upper
95 100
174 83.2 0.0 168.8
176 79.2 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Tgt Ion: 117 Resp: 738521
Ion Ratio Lower Upper
117 100
82 57.0 45.1 67.7
119 32.0 25.4 38.0

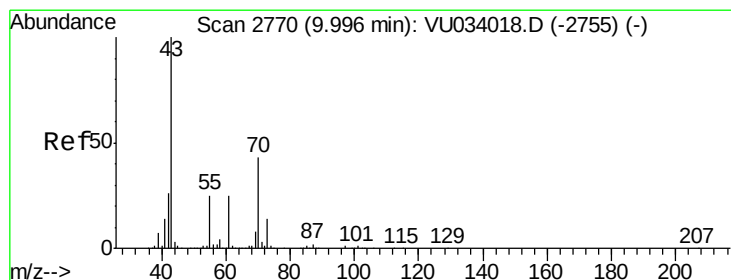
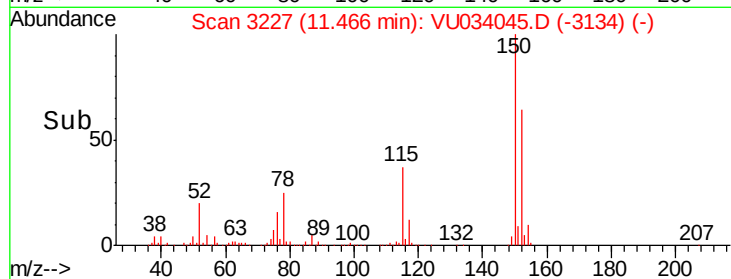
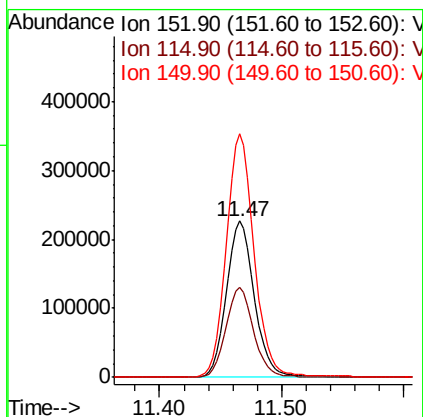
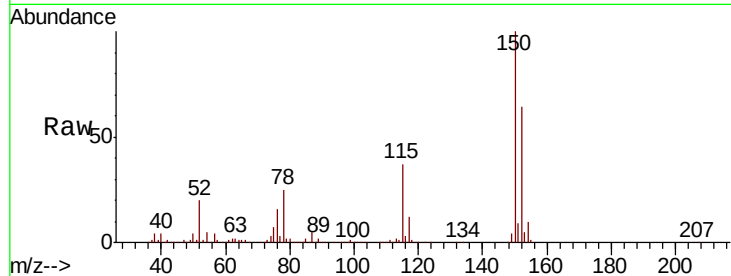




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. -0.00 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

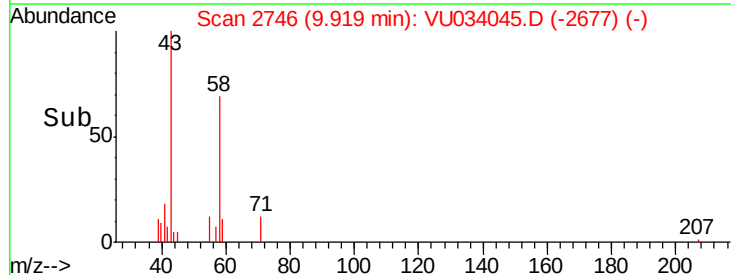
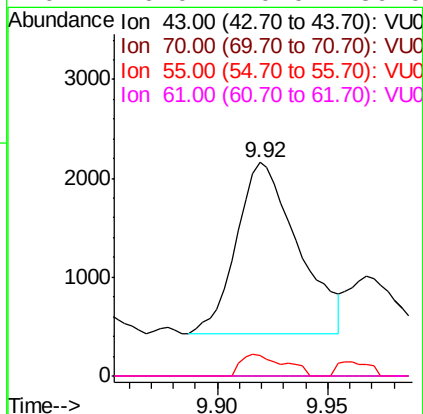
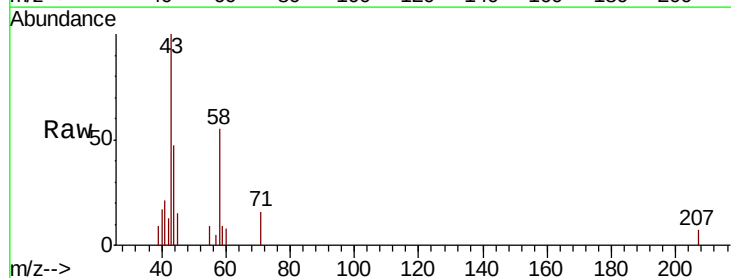
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

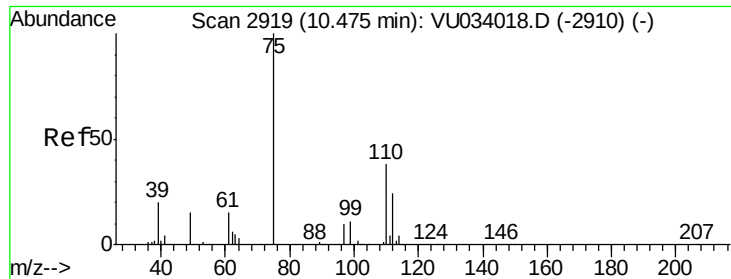
Tgt Ion:152 Resp: 364662
 Ion Ratio Lower Upper
 152 100
 115 57.1 41.1 123.3
 150 155.8 0.0 348.8



#74
 N-ethyl acetate
 Concen: 0.328 ug/l
 RT: 9.92 min Scan# 2746
 Delta R.T. -0.08 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 43 Resp: 3384
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.2 52.8#
 55 8.6 20.5 30.7#
 61 0.0 20.0 30.0#

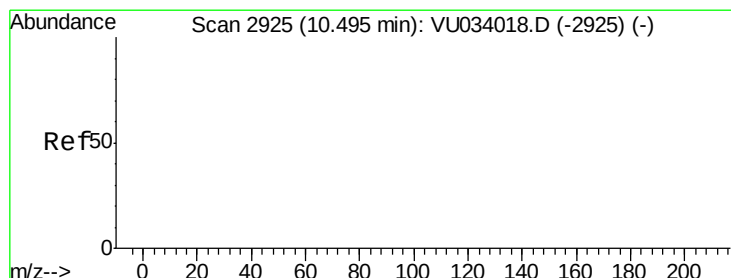
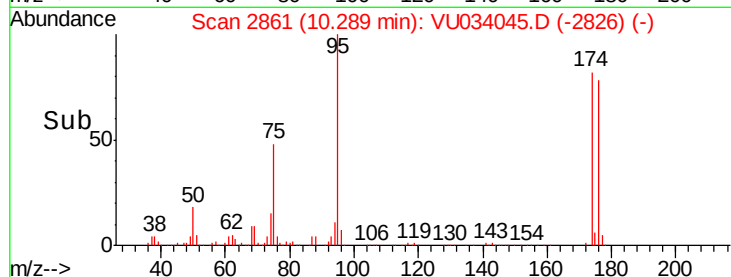
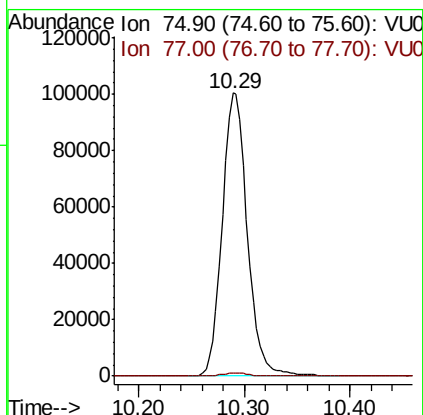
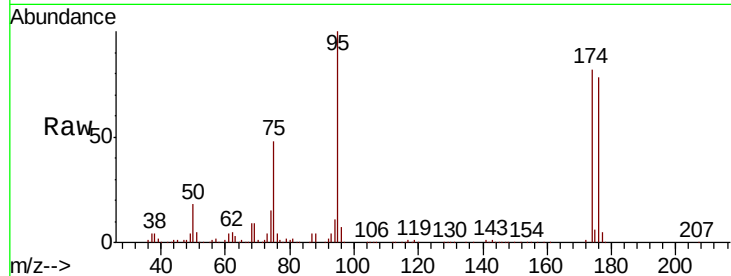




#76
 1,2,3-Trichloropropane
 Concen: 20.120 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

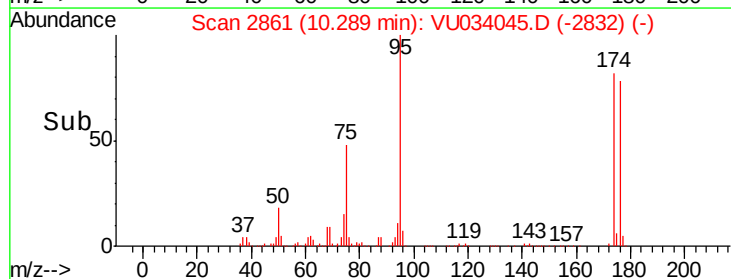
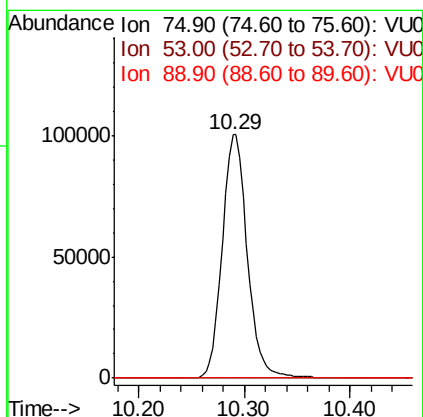
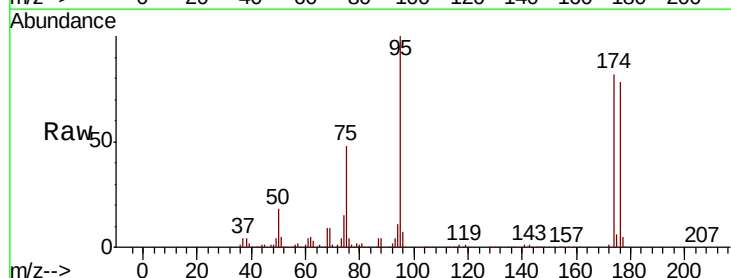
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(1.9)

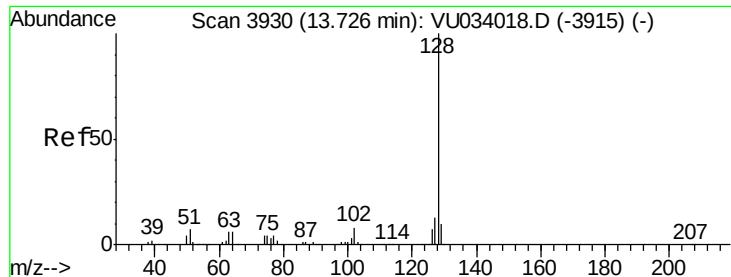
Tgt Ion: 75 Resp: 165365
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.750 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034045.D
 Acq: 28 Aug 2019 23:54

Tgt Ion: 75 Resp: 165365
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

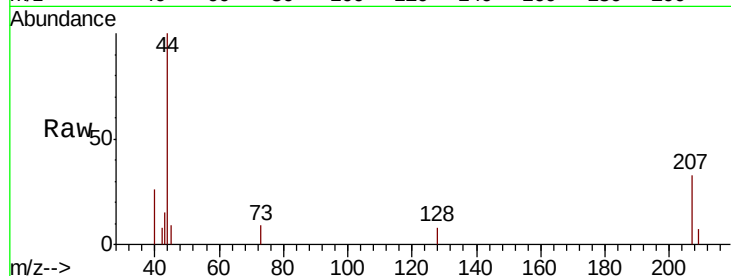




#95
Naphthalene
Concen: 1.792 ug/l
RT: 13.77 min Scan# 3945
Delta R.T. 0.05 min
Lab File: VU034045.D
Acq: 28 Aug 2019 23:54

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(1.9)

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



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

