

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034179.D
 Acq On : 01 Sep 2019 19:12
 Operator : JC/SP
 Sample : K4527-30
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:35:31 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	427650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	700309	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	704908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	341312	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	279918	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
35) Dibromofluoromethane	4.86	113	230448	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	7.55	98	914777	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	10.29	95	320191	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	

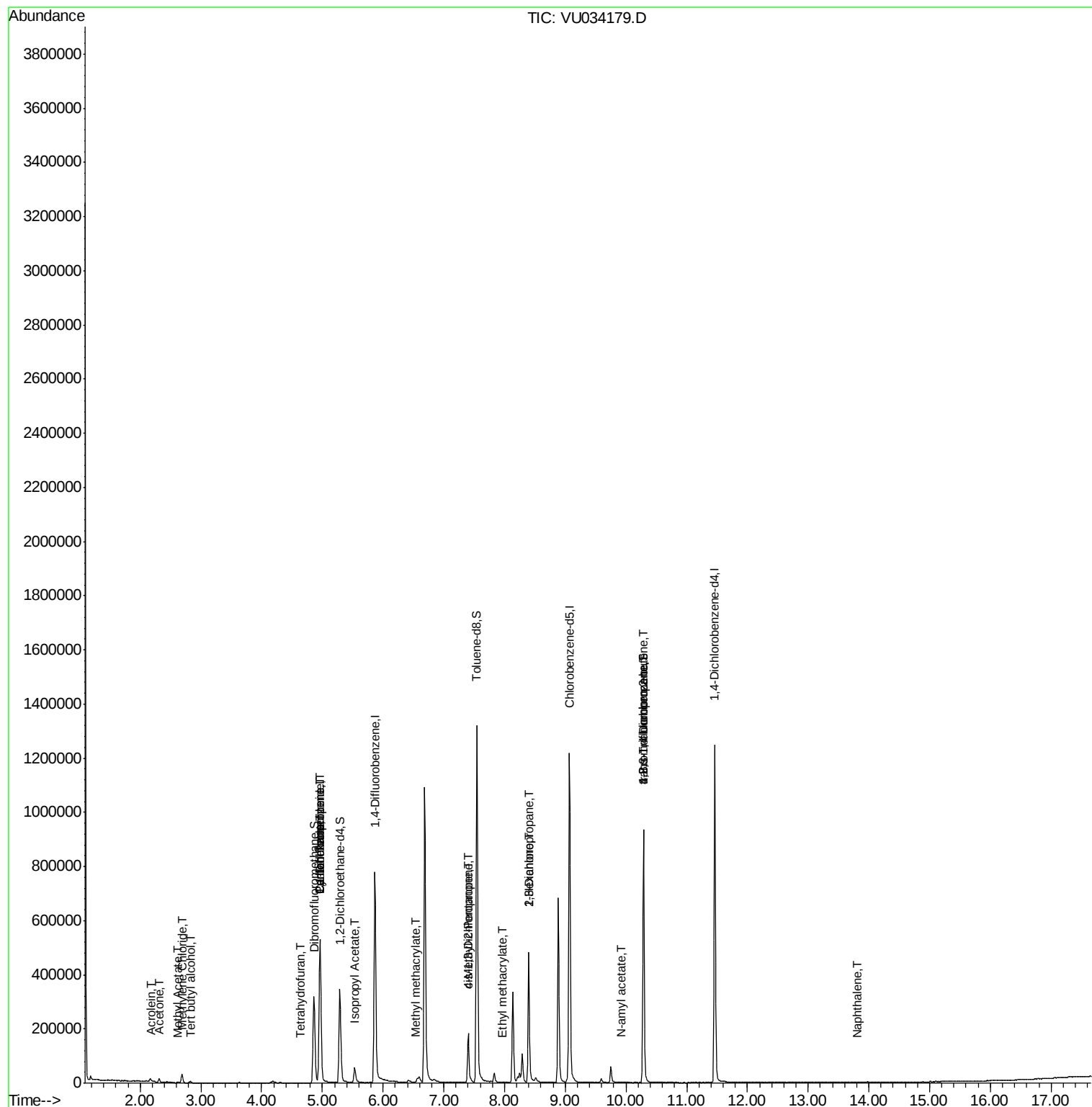
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	412	Below Cal	#	86
5) Bromomethane	1.58	94	23	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3557	2.815	ug/l #	73
13) Acrolein	2.19	56	165	0.310	ug/l	90
16) Acetone	2.31	43	15876	5.678	ug/l	98
18) Methyl Acetate	2.61	43	2901	0.402	ug/l	98
20) Methylene Chloride	2.69	84	14628	2.764	ug/l	88
29) Tetrahydrofuran	4.64	42	503	0.210	ug/l #	42
31) Cyclohexane	4.96	56	8315	1.016	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31479	4.752	ug/l #	48
38) Carbon Tetrachloride	4.96	117	38917	6.087	ug/l #	17
43) Isopropyl Acetate	5.53	43	68331	6.055	ug/l	98
48) Methyl methacrylate	6.53	41	3909	0.718	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	63484	8.146	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	34636	4.109	ug/l #	65
56) Ethyl methacrylate	7.97	69	132	0.986	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	4906	0.553	ug/l #	42
59) 2-Hexanone	8.40	43	65274	11.095	ug/l #	53
74) N-amyl acetate	9.92	43	2224	0.231	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	154203	20.046	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	154203	67.499	ug/l #	100
95) Naphthalene	13.82	128	45	1.792	ug/l #	70

(#) = 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# 1205

Delta R.T. 0.01 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

Instrument :

MSVOA_U

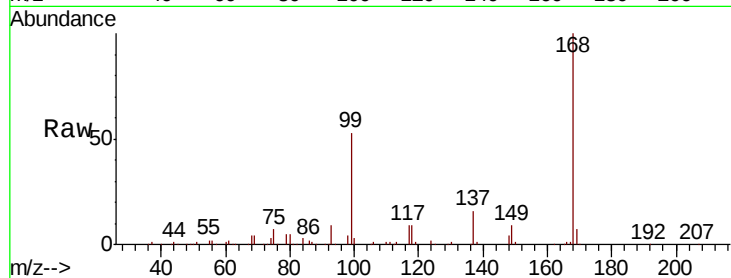
ClientSampled :

Tot Ion:168 Resp: 427650

Ion Ratio Lower Upper

168 100

99 52.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034179.D

Ion 98.90 (98.60 to 99.60): VU034179.D

4.96

200000

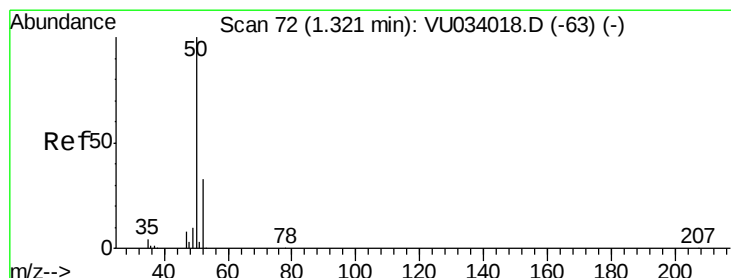
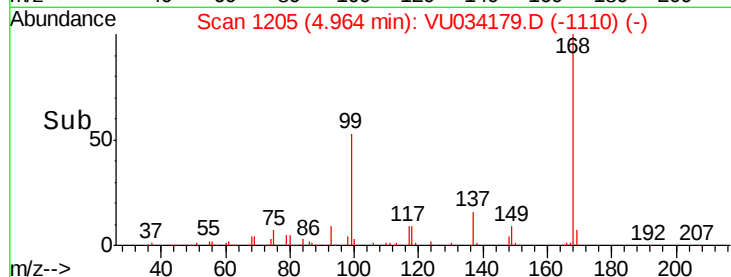
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034179.D

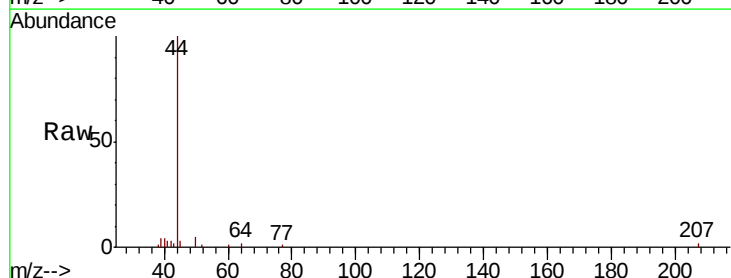
Acq: 01 Sep 2019 19:12

Tgt Ion: 50 Resp: 412

Ion Ratio Lower Upper

50 100

52 24.8 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034179.D

Ion 51.90 (51.60 to 52.60): VU034179.D

1.33

500

400

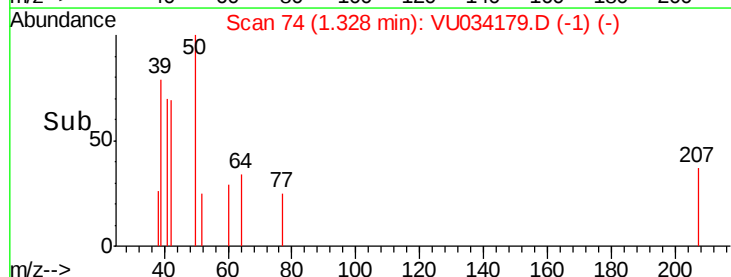
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 153

Delta R.T. -0.02 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

Instrument :

MSVOA_U

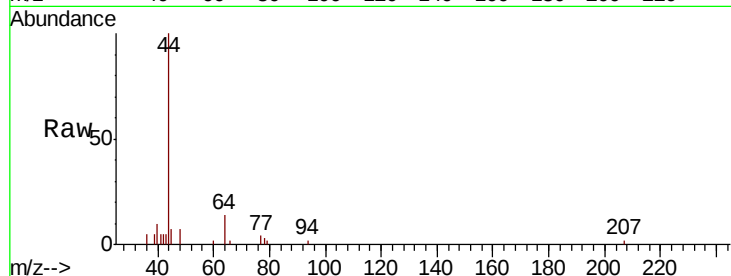
ClientSampleId :

Tot Ion: 94 Resp: 23

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034018.D (-143) (-)

1.58

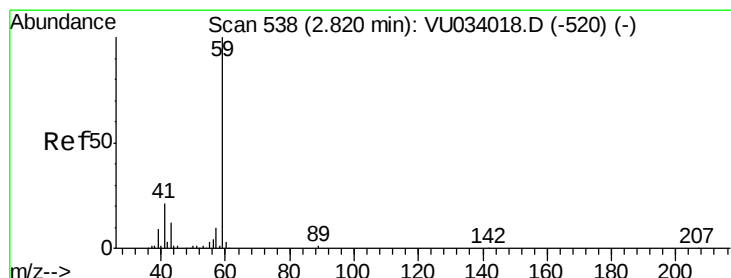
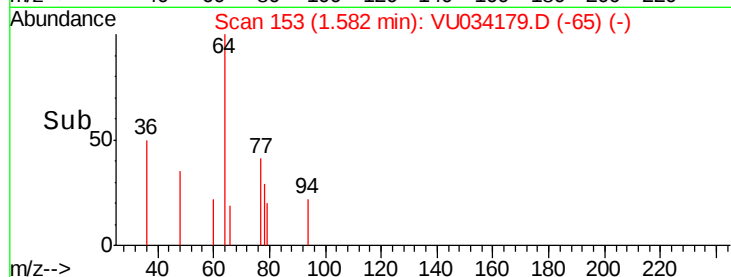
100

50

0

1.57 1.58 1.59

Time-->



#11

Tert butyl alcohol

Concen: 2.815 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034179.D

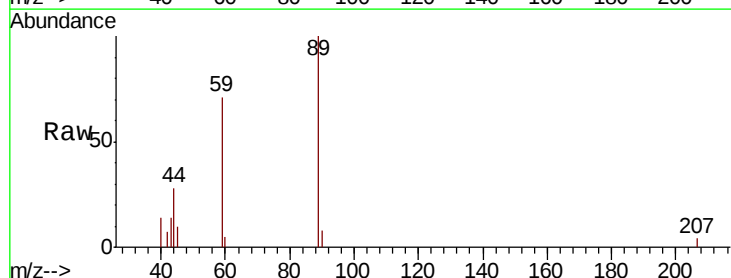
Acq: 01 Sep 2019 19:12

Tgt Ion: 59 Resp: 3557

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)

Ion 57.00 (56.70 to 57.70): VU034018.D (-520) (-)

2.82

1500

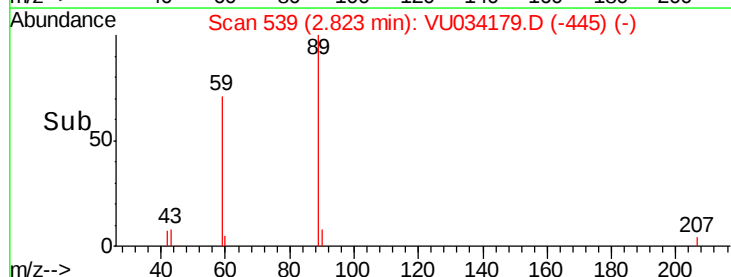
1000

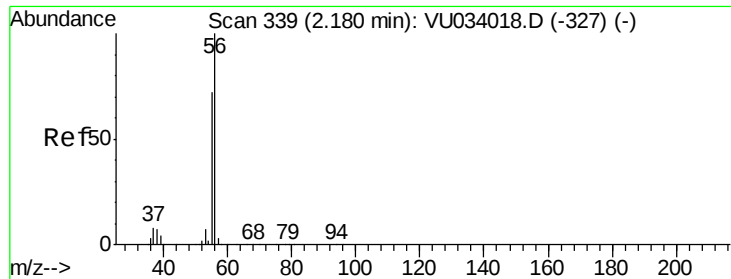
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.310 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

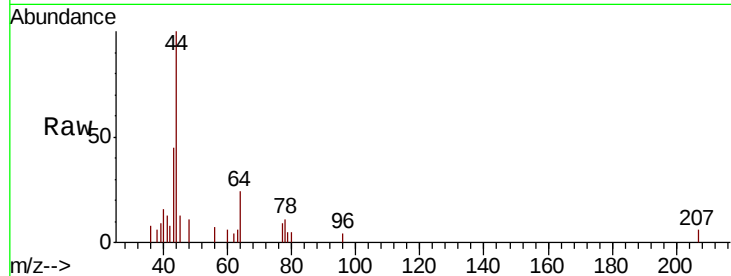
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 165

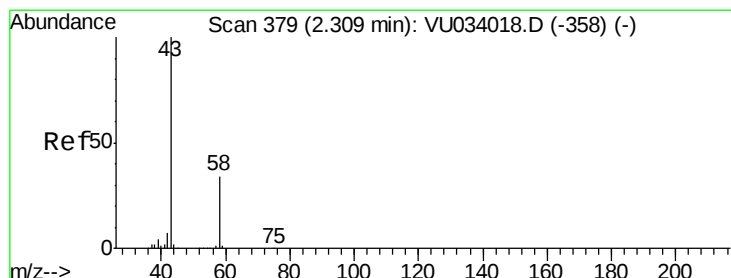
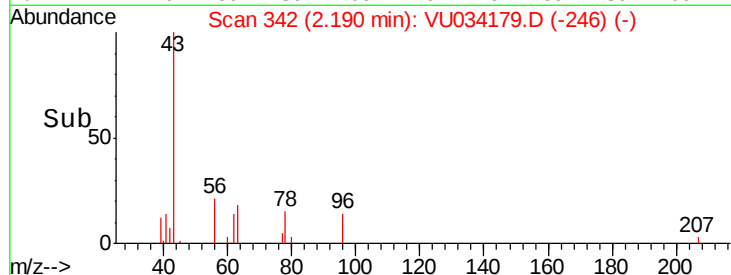
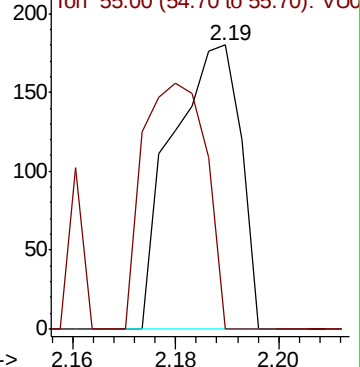
Ion Ratio Lower Upper

56 100

55 80.0 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034179.D (-246) (-)



#16

Acetone

Concen: 5.678 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034179.D

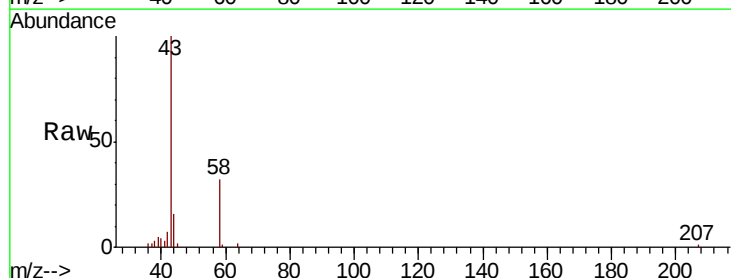
Acq: 01 Sep 2019 19:12

Tgt Ion: 43 Resp: 15876

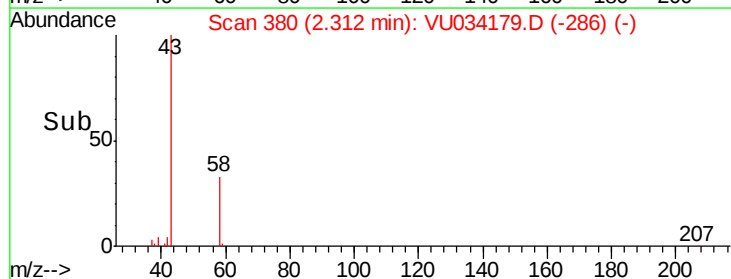
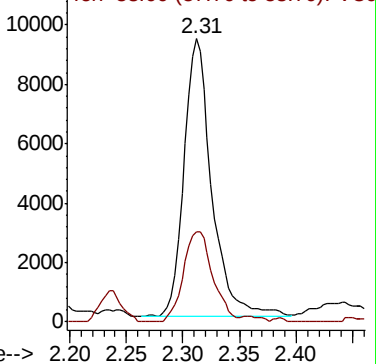
Ion Ratio Lower Upper

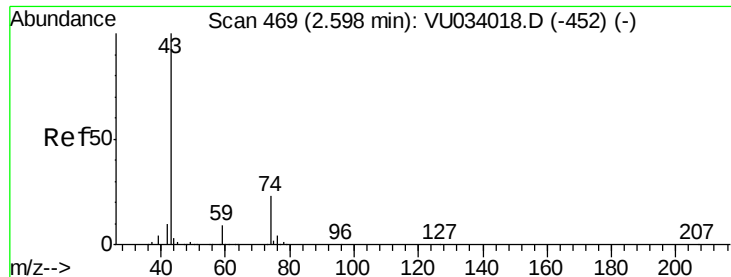
43 100

58 32.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034179.D (-286) (-)

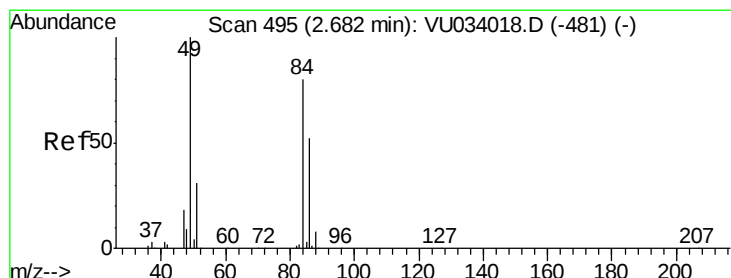
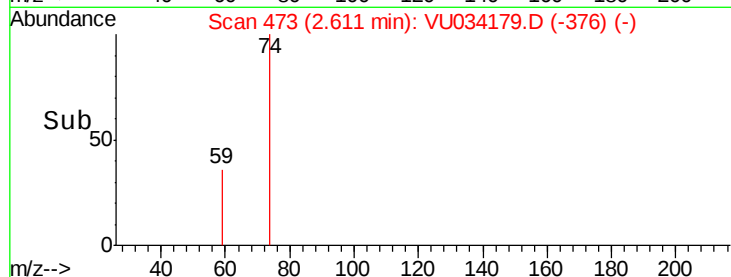
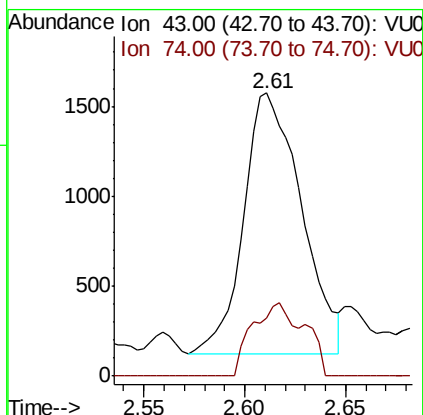
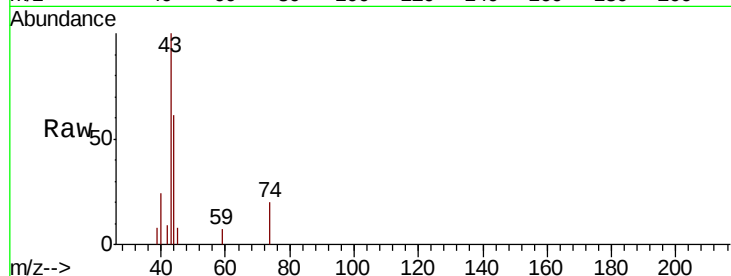




#18
Methyl Acetate
Concen: 0.402 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

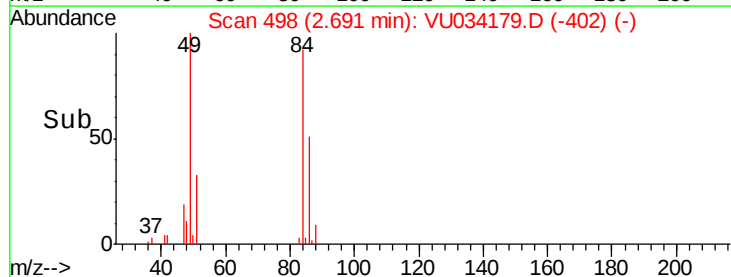
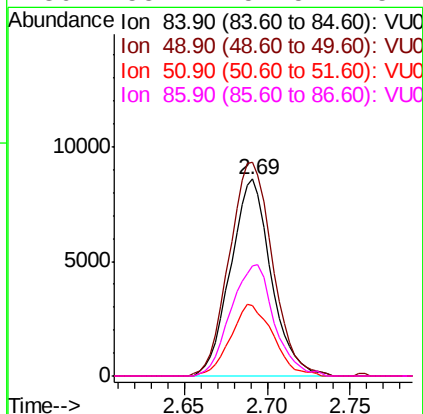
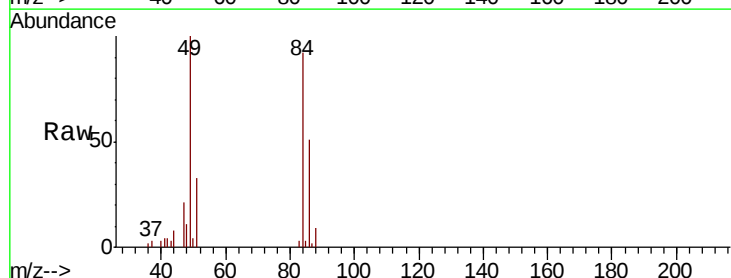
Instrument :
MSVOA_U
ClientSampleId :

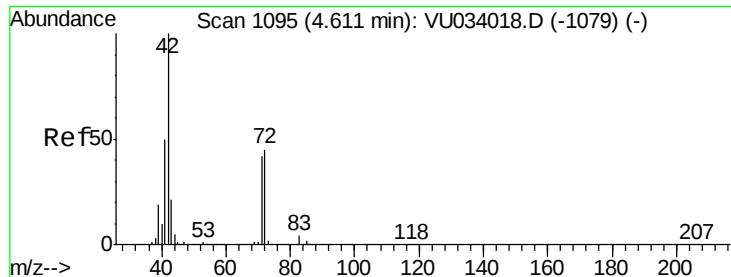
Tot Ion: 43 Resp: 2901
Ion Ratio Lower Upper
43 100
74 25.1 19.2 28.8



#20
Methylene Chloride
Concen: 2.764 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

Tgt Ion: 84 Resp: 14628
Ion Ratio Lower Upper
84 100
49 108.4 100.2 150.4
51 35.5 30.8 46.2
86 55.7 52.5 78.7

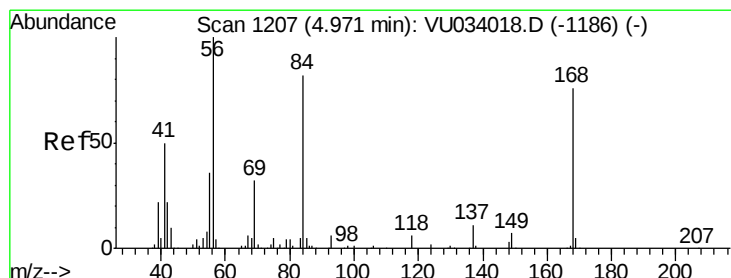
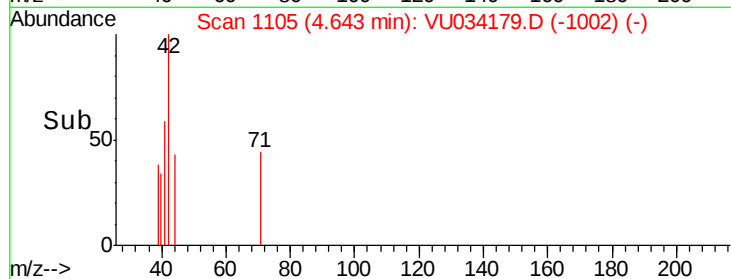
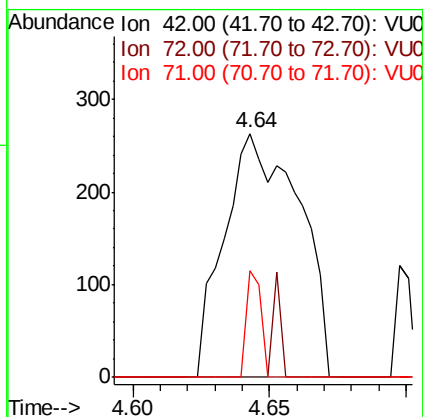
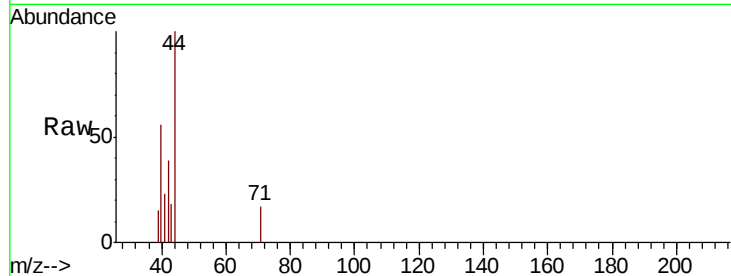




#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 4.64 min Scan# 1105
Delta R.T. 0.03 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

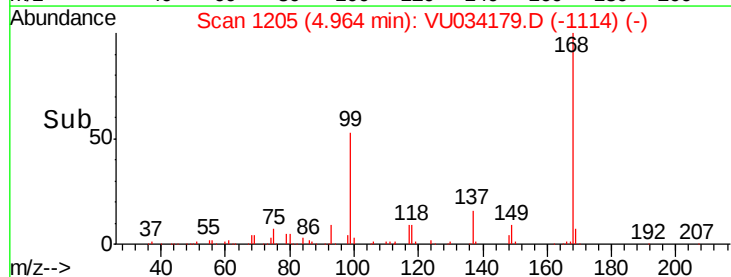
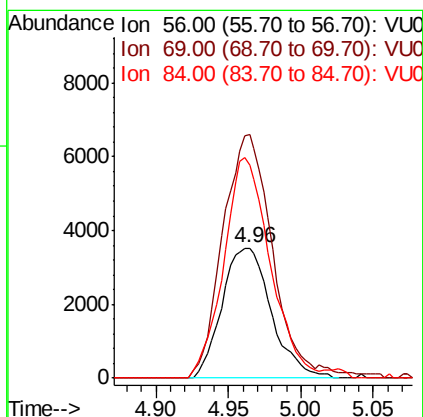
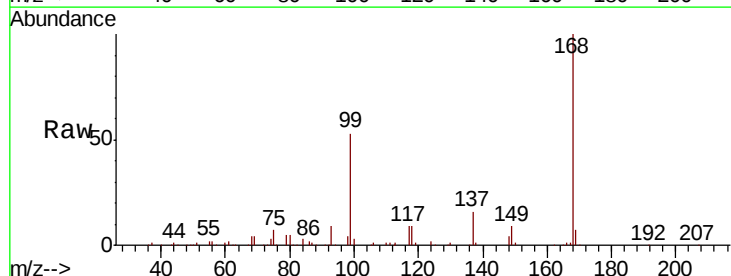
Instrument :
MSVOA_U
ClientSampleId :

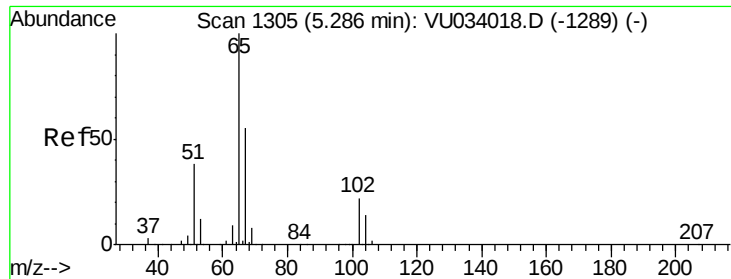
Tot Ion: 42 Resp: 503
Ion Ratio Lower Upper
42 100
72 4.4 35.8 53.6#
71 8.2 34.0 51.0#



#31
Cyclohexane
Concen: 1.016 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

Tgt Ion: 56 Resp: 8315
Ion Ratio Lower Upper
56 100
69 186.8 25.4 38.0#
84 163.3 65.8 98.8#

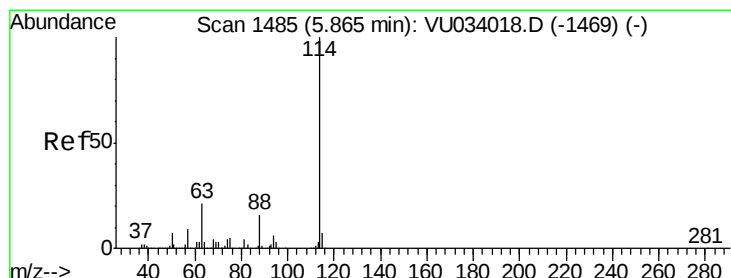
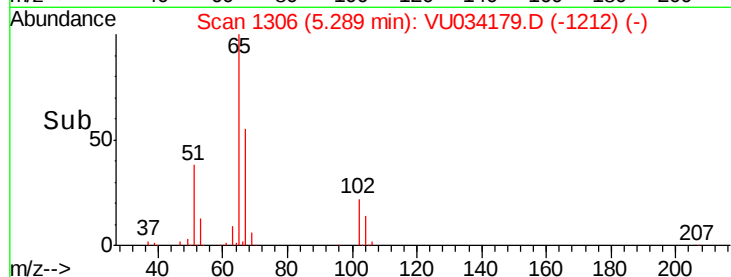
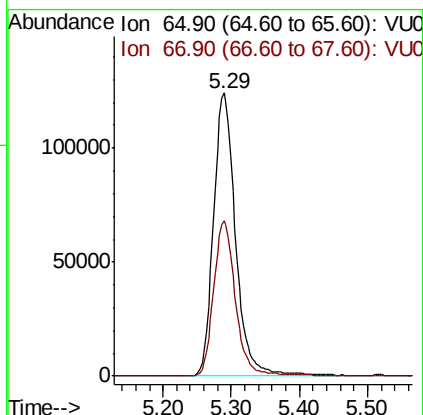
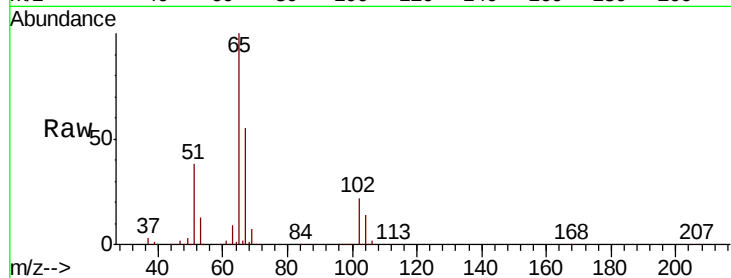




#33
 1,2-Dichloroethane-d4
 Concen: 51.083 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

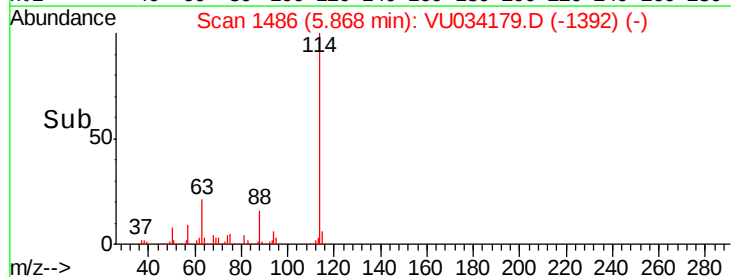
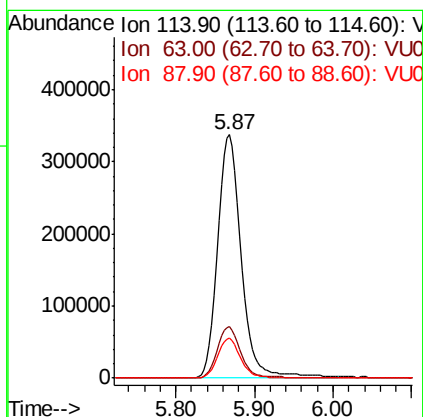
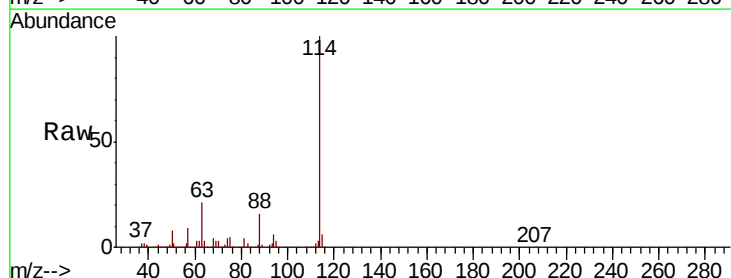
Instrument :
 MSVOA_U
 ClientSampled :

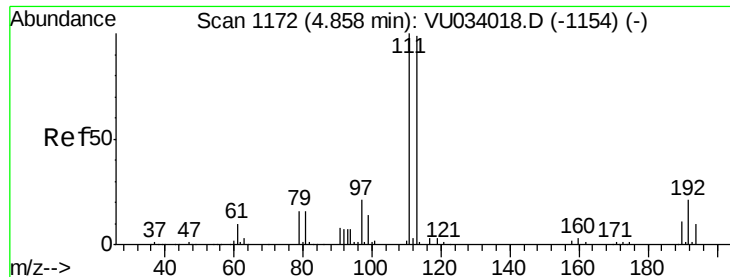
Tot Ion: 65 Resp: 279918
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

Tgt Ion: 114 Resp: 700309
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.0
 88 16.3 0.0 32.0

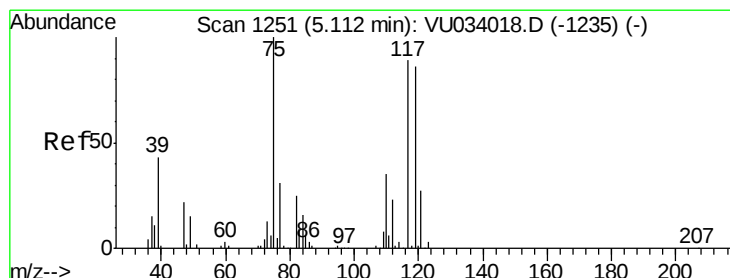
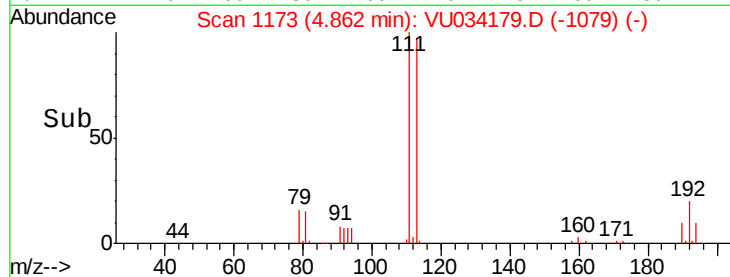
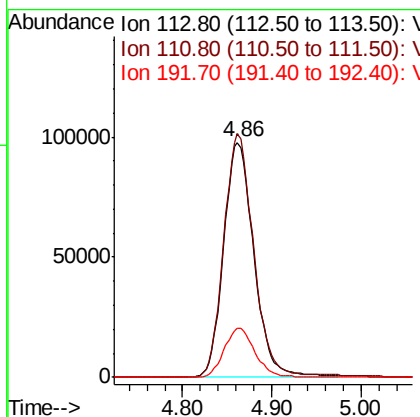
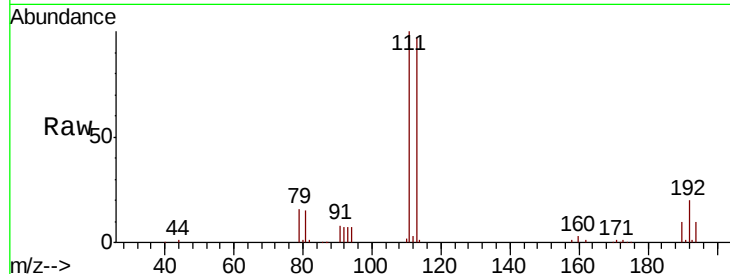




#35
 Dibromofluoromethane
 Concen: 47.444 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

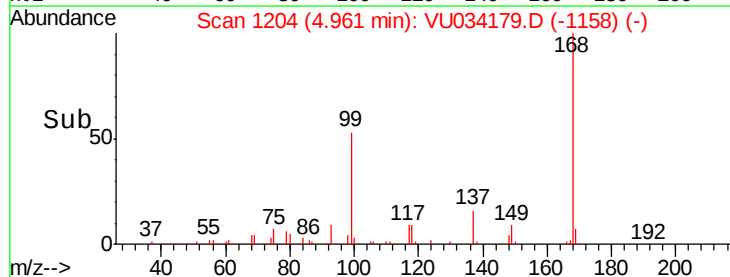
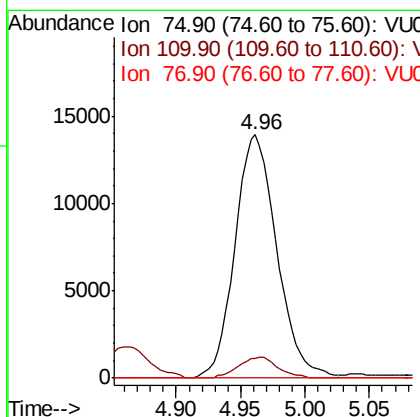
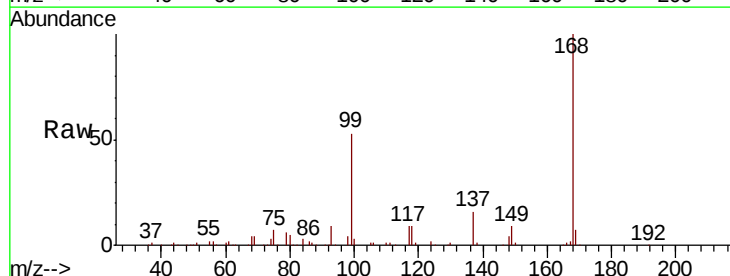
Instrument :
 MSVOA_U
 ClientSampleId :

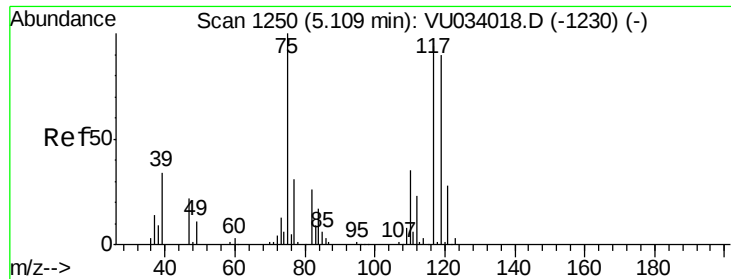
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.7	122.5
192	21.1	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.752 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.087 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

Instrument :

MSVOA_U

ClientSampleId :

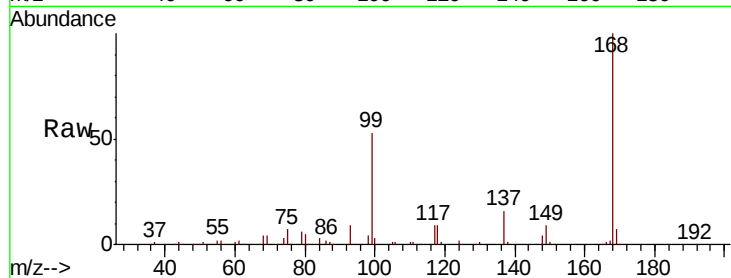
Tot Ion:117 Resp: 38917

Ion Ratio Lower Upper

117 100

119 6.5 77.0 115.4#

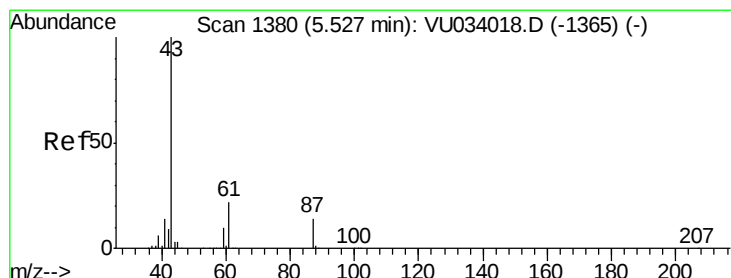
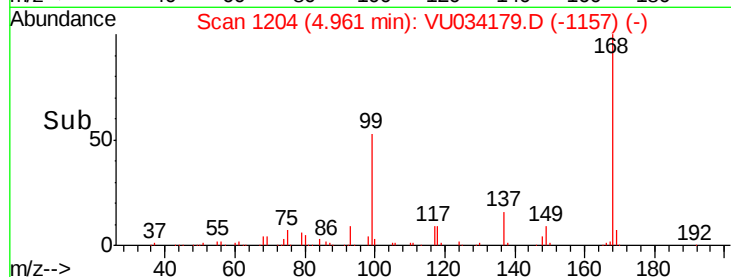
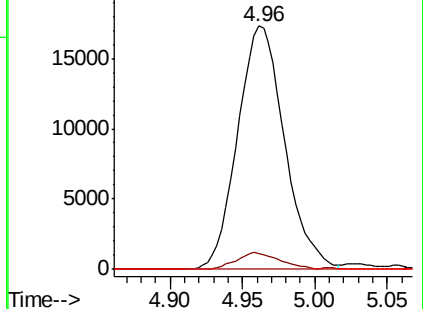
121 0.0 23.9 35.9#



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: 6.055 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

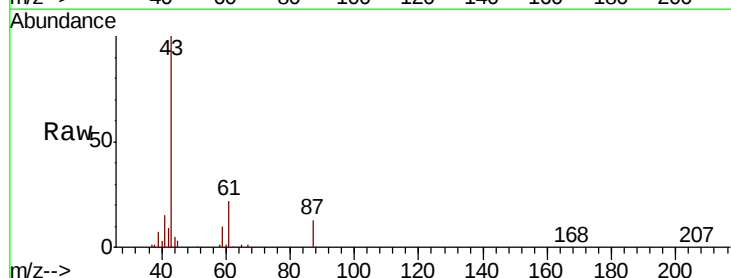
Tgt Ion: 43 Resp: 68331

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

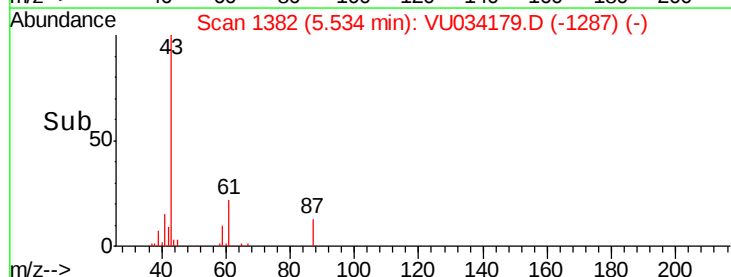
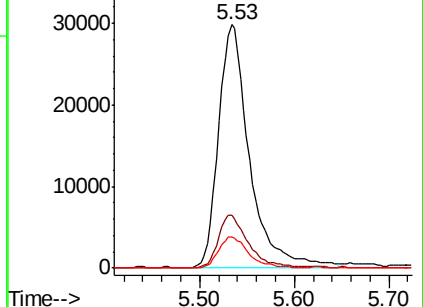
87 12.6 10.8 16.2

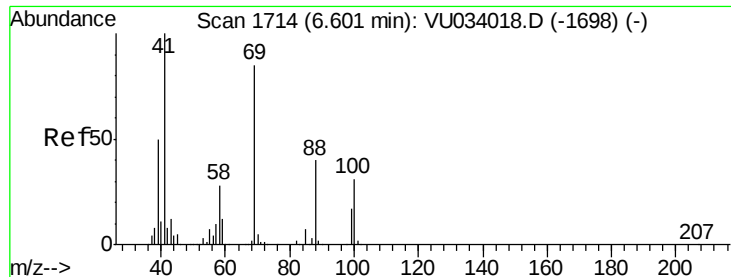


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

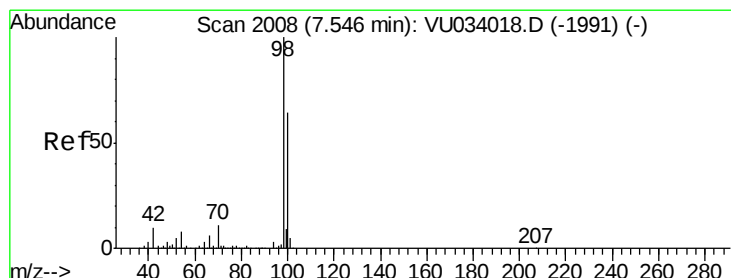
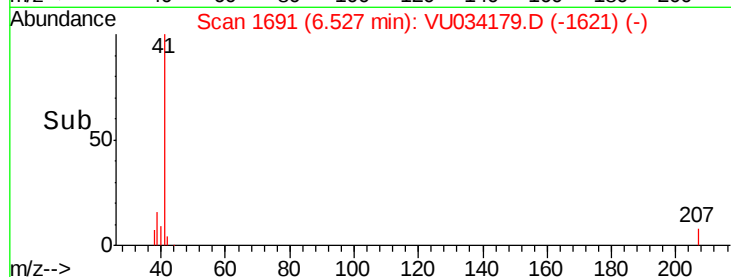
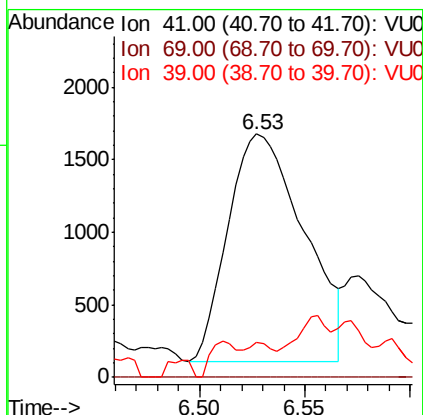
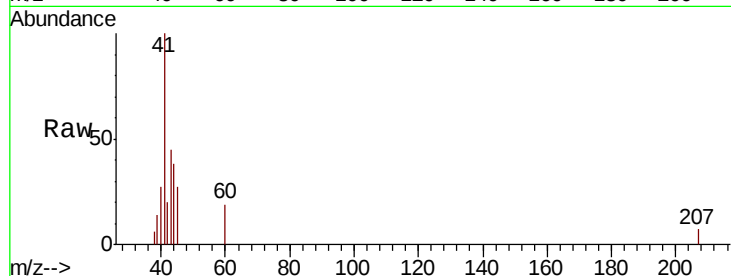




#48
Methvl methacrylate
Concen: 0.718 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

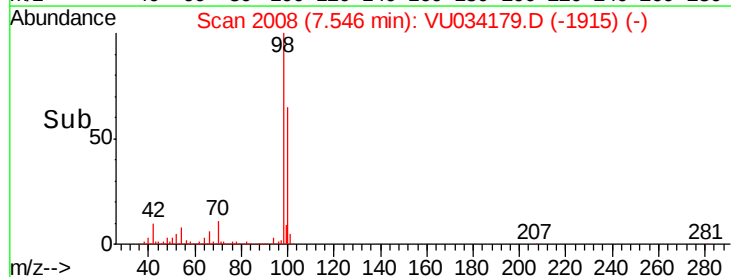
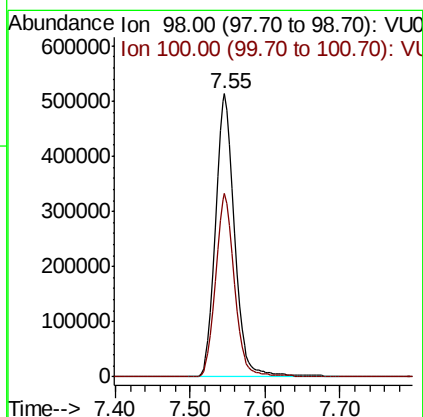
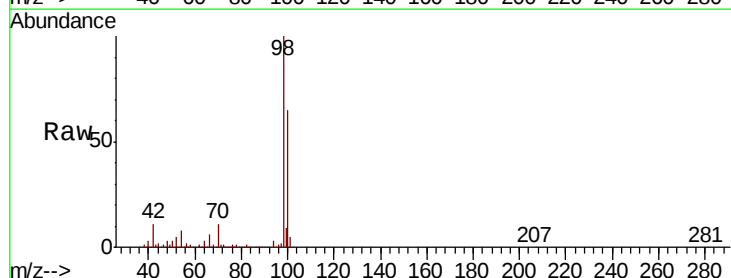
Instrument :
MSVOA_U
ClientSampleId :

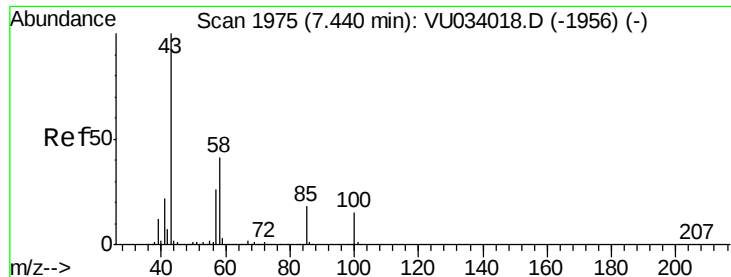
Tot Ion: 41 Resp: 3909
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#50
Toluene-d8
Concen: 50.297 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

Tgt Ion: 98 Resp: 914777
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5

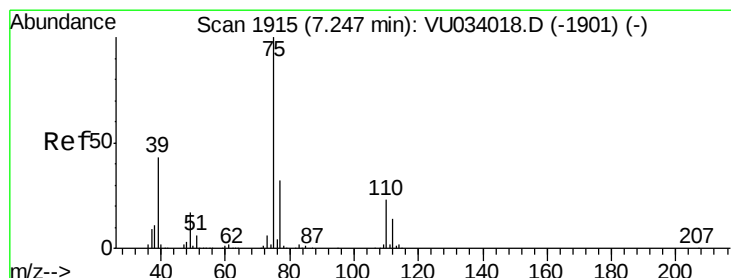
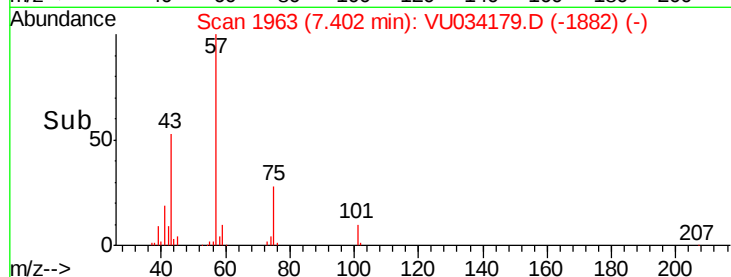
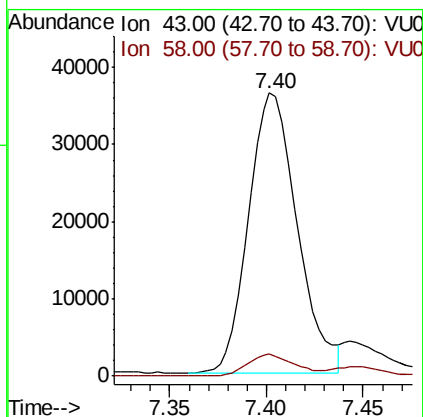
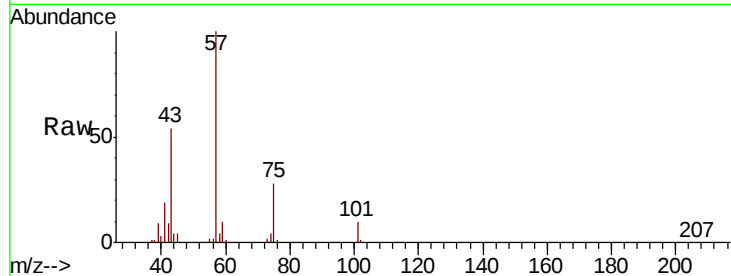




#51
 4-Methyl-2-Pentanone
 Concen: 8.146 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

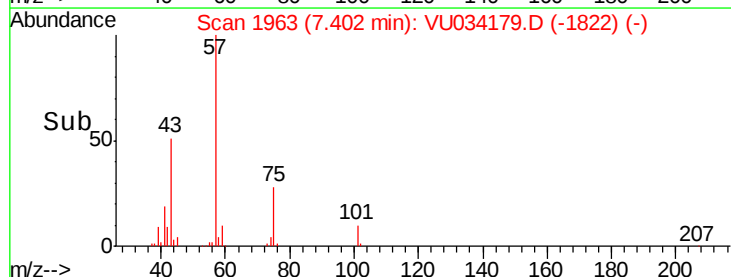
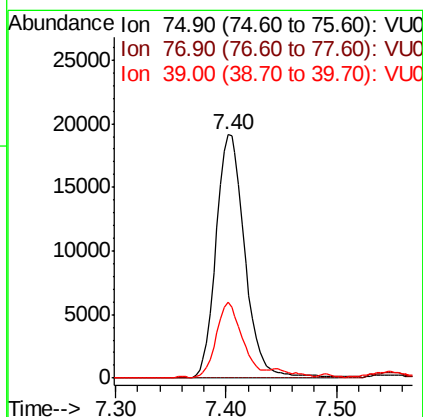
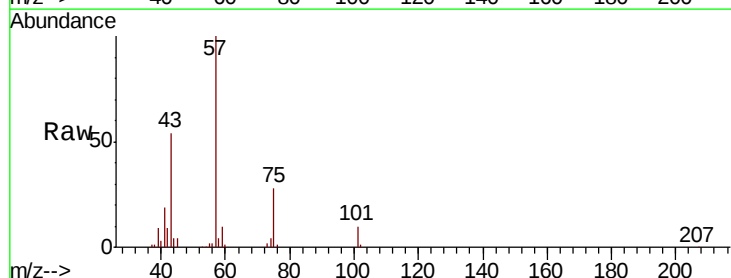
Instrument :
 MSVOA_U
 ClientSampleId :

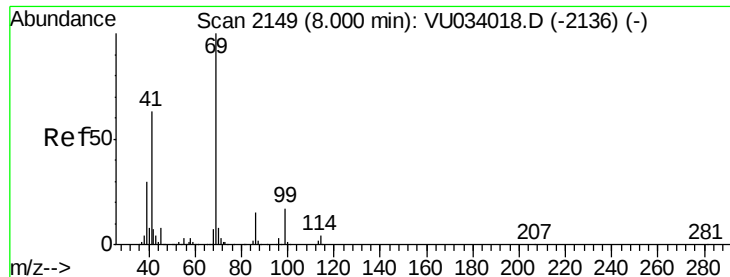
Tot Ion: 43 Resp: 63484
 Ion Ratio Lower Upper
 43 100
 58 7.7 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.109 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034179.D
 Acq: 01 Sep 2019 19:12

Tgt Ion: 75 Resp: 34636
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 31.1 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.986 ug/l

RT: 7.97 min Scan# 2140

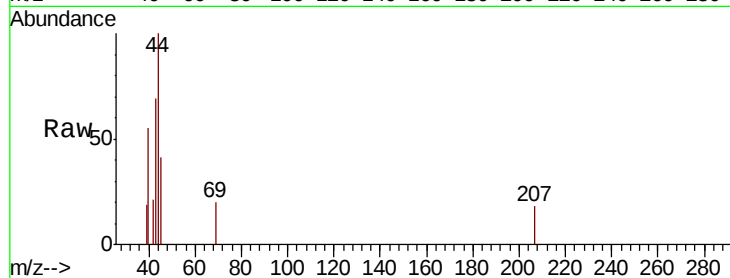
Delta R.T. -0.03 min

Lab File: VU034179.D

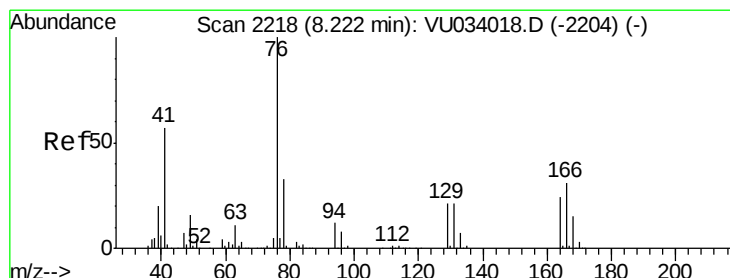
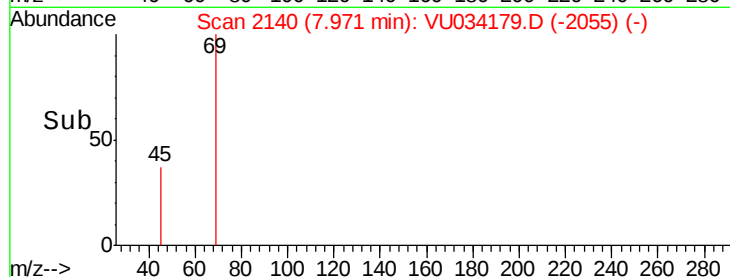
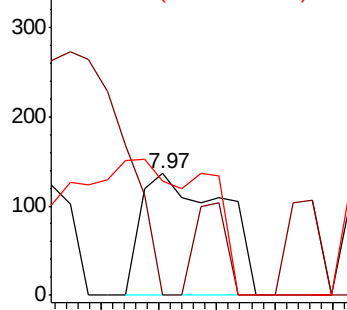
Acq: 01 Sep 2019 19:12

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	69.00	Resp:	132
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): VU034179.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.553 ug/l

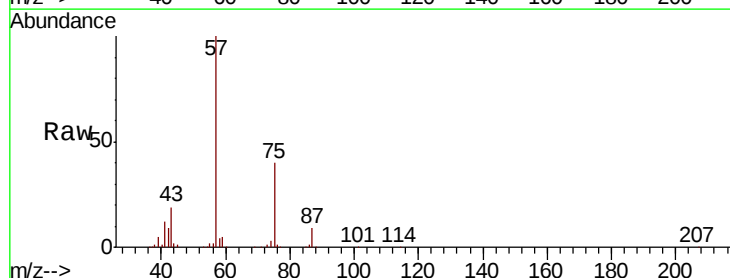
RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

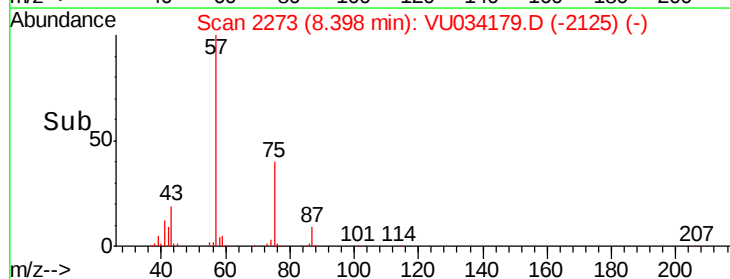
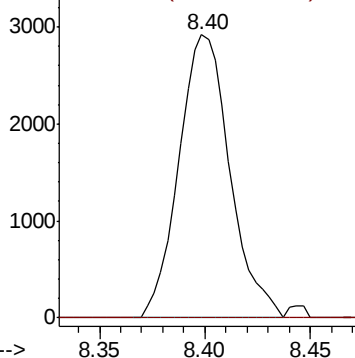
Lab File: VU034179.D

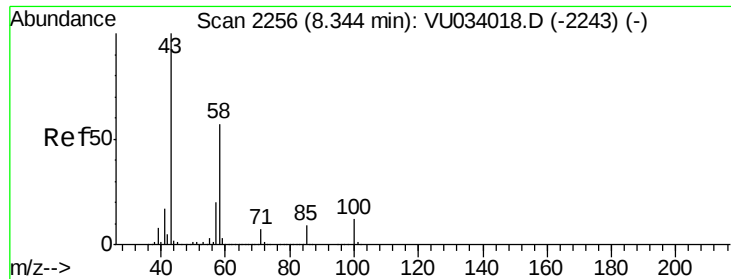
Acq: 01 Sep 2019 19:12

Tgt Ion:	76	Resp:	4906
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034179.D (-2204) (-)

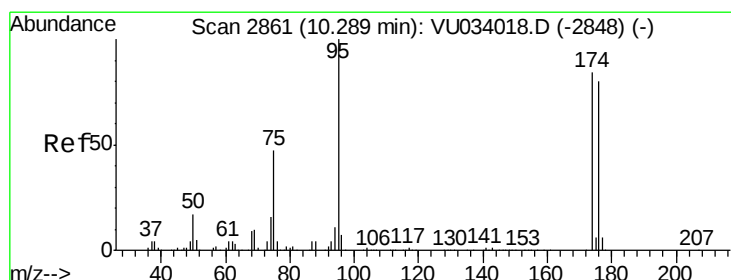
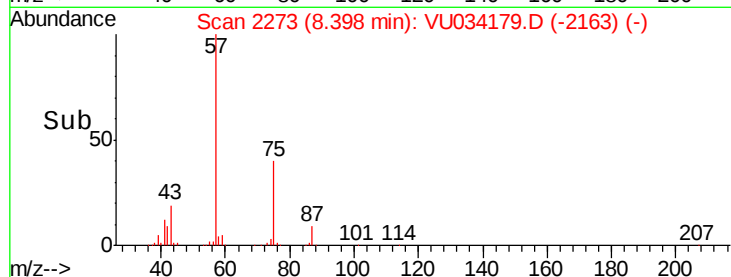
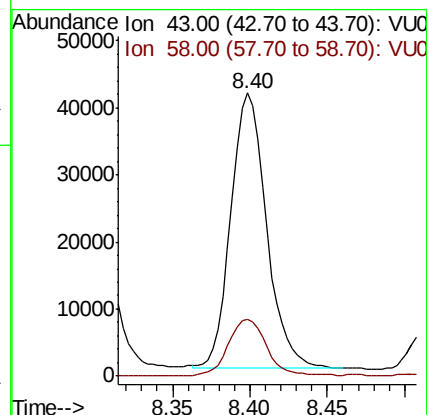
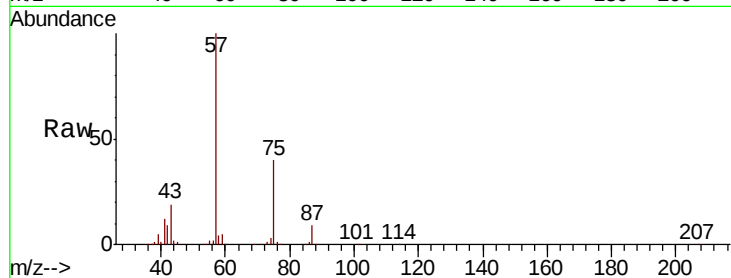




#59
2-Hexanone
Concen: 11.095 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

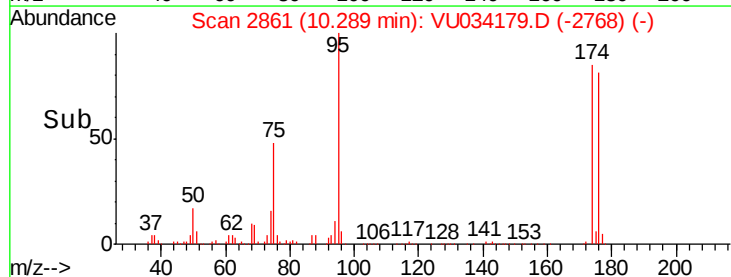
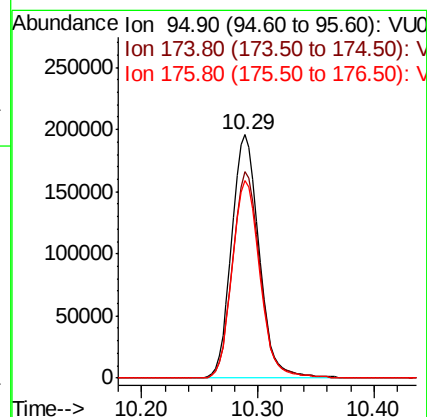
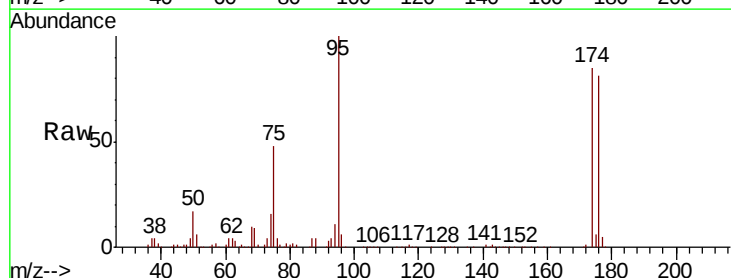
Instrument :
MSVOA_U
ClientSampleId :

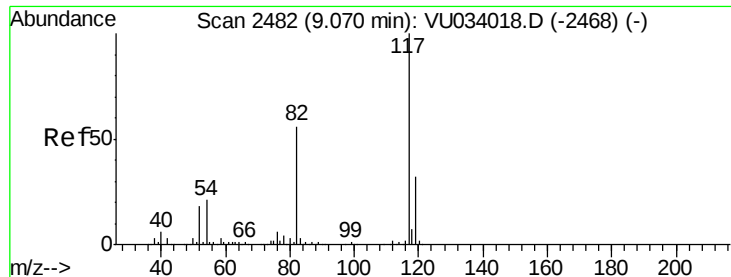
Tot Ion: 43 Resp: 65274
Ion Ratio Lower Upper
43 100
58 22.6 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.258 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

Tgt Ion: 95 Resp: 320191
Ion Ratio Lower Upper
95 100
174 85.1 0.0 168.8
176 82.1 0.0 161.8

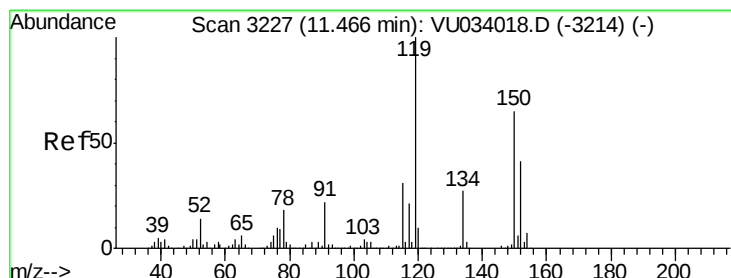
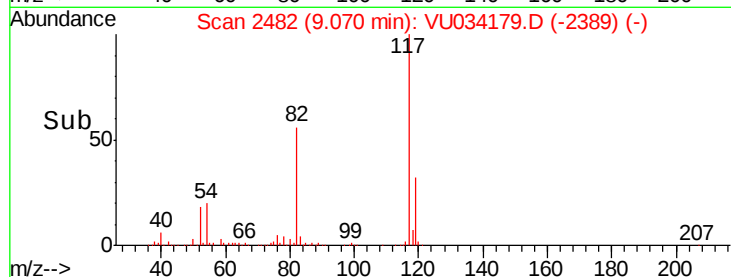
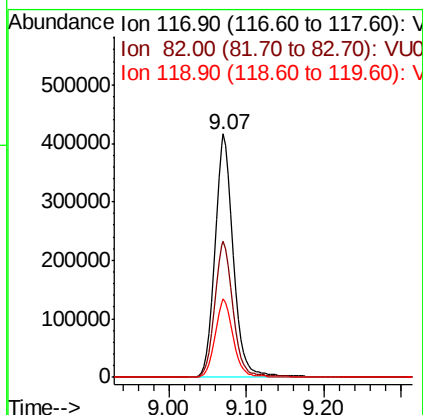
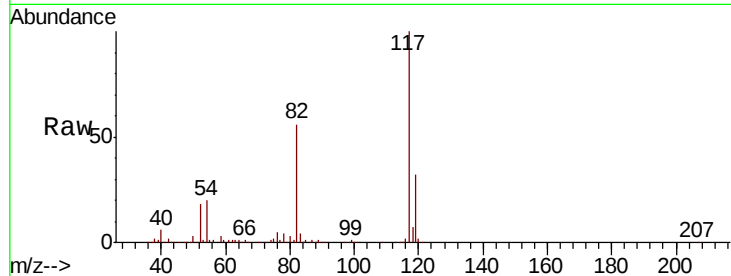




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

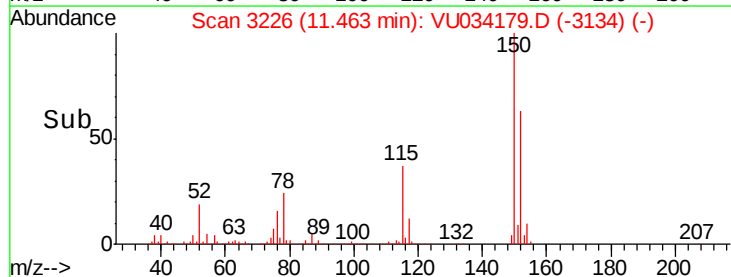
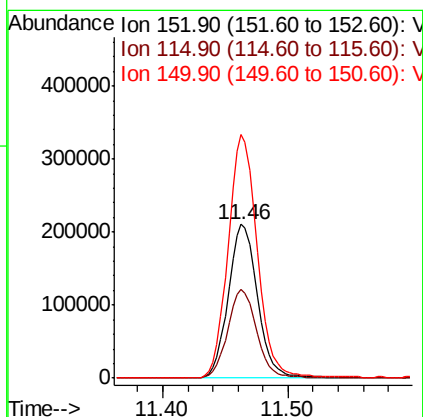
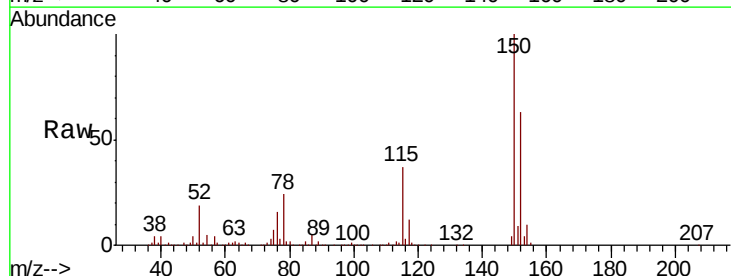
Instrument :
MSVOA_U
ClientSampled :

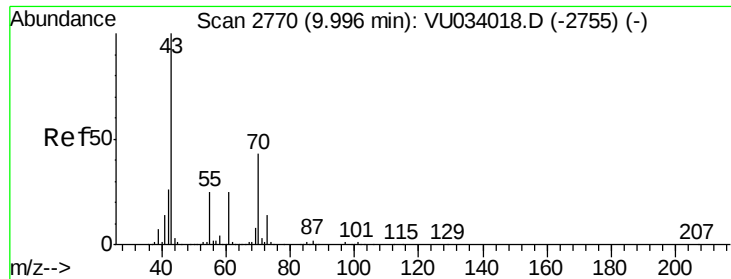
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.1	67.7
119	32.1	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034179.D
Acq: 01 Sep 2019 19:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	41.1	123.3
150	158.2	0.0	348.8





#74

N-amvl acetate

Concen: 0.231 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 2224

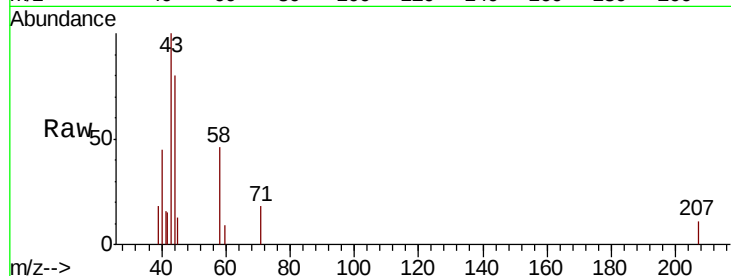
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 2.8 20.5 30.7#

61 0.0 20.0 30.0#

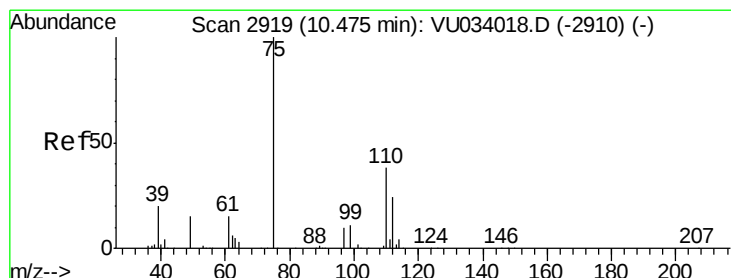
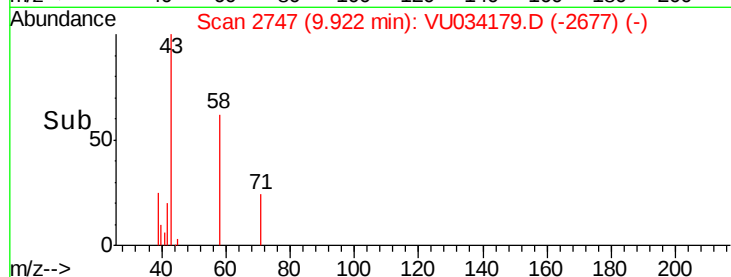
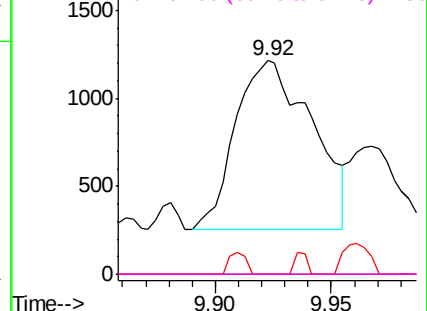


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 20.046 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034179.D

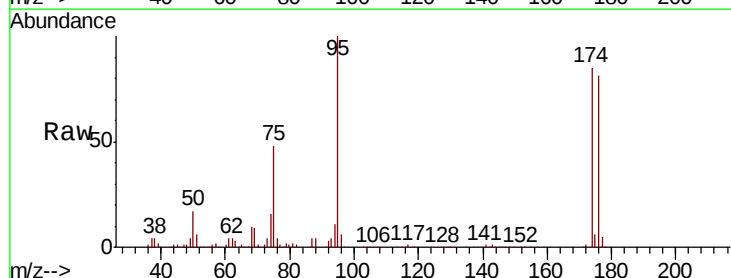
Acq: 01 Sep 2019 19:12

Tgt Ion: 75 Resp: 154203

Ion Ratio Lower Upper

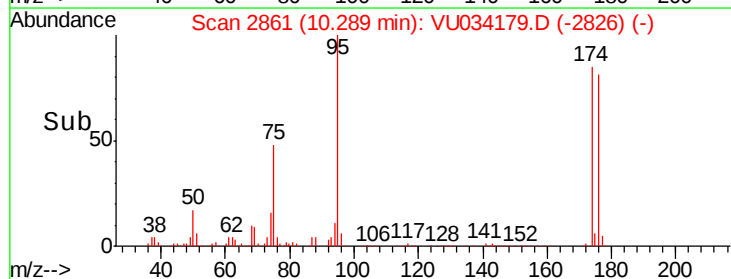
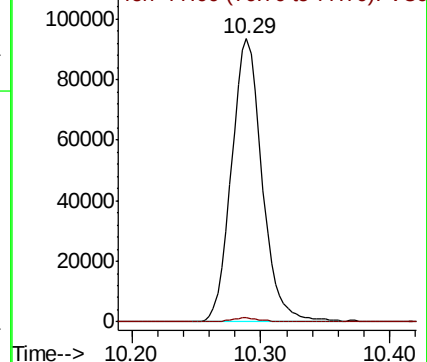
75 100

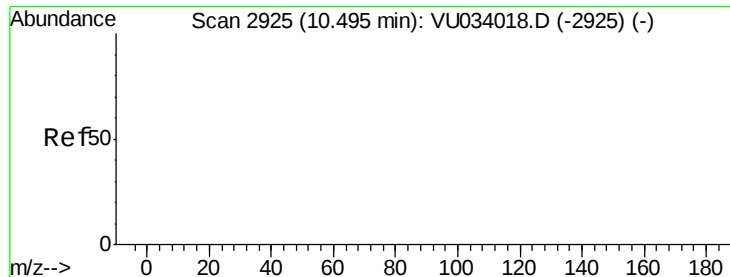
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.499 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

Instrument :

MSVOA_U

ClientSampled :

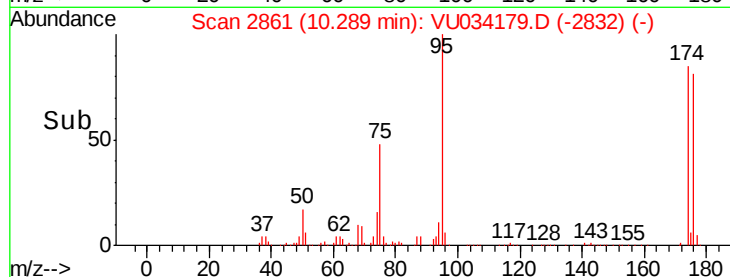
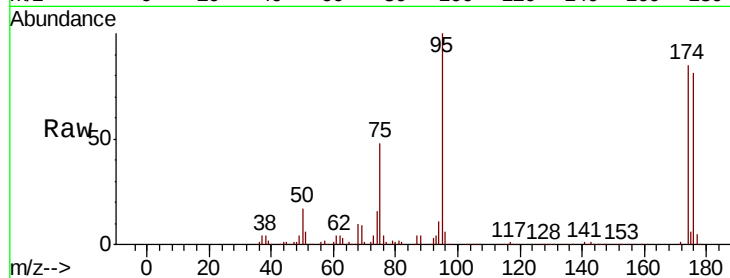
Tot Ion: 75 Resp: 154203

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

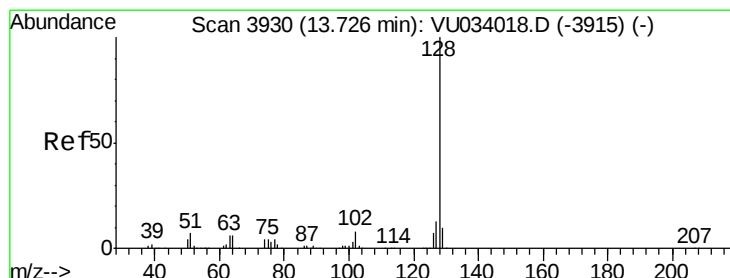
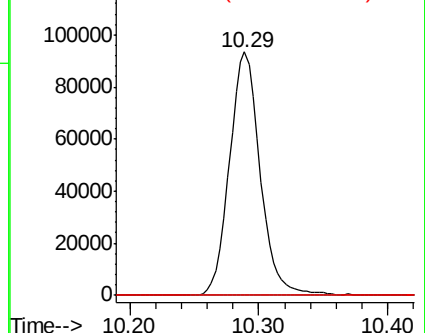
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.82 min Scan# 3958

Delta R.T. 0.09 min

Lab File: VU034179.D

Acq: 01 Sep 2019 19:12

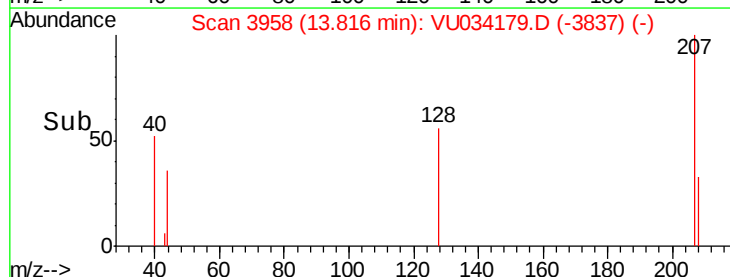
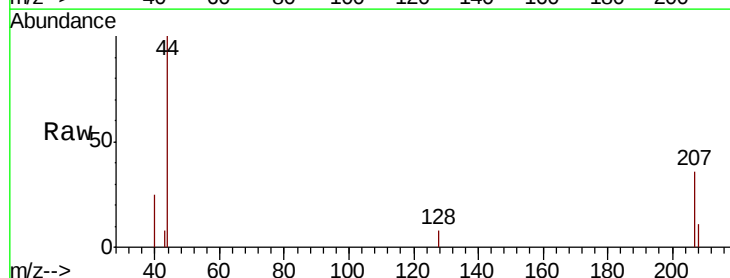
Tgt Ion: 128 Resp: 45

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

