

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034178.D
 Acq On : 01 Sep 2019 18:49
 Operator : JC/SP
 Sample : K4527-29
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:35:15 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	432086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	686284	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	684139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	321295	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	275275	49.72	ug/l	0.00
Spiked Amount						
			Recovery	=	99.44%	
35) Dibromofluoromethane	4.86	113	227505	47.80	ug/l	0.00
Spiked Amount						
			Recovery	=	95.60%	
50) Toluene-d8	7.55	98	906379	50.85	ug/l	0.00
Spiked Amount						
			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	10.29	95	306629	44.23	ug/l	0.00
Spiked Amount						
			Recovery	=	88.46%	

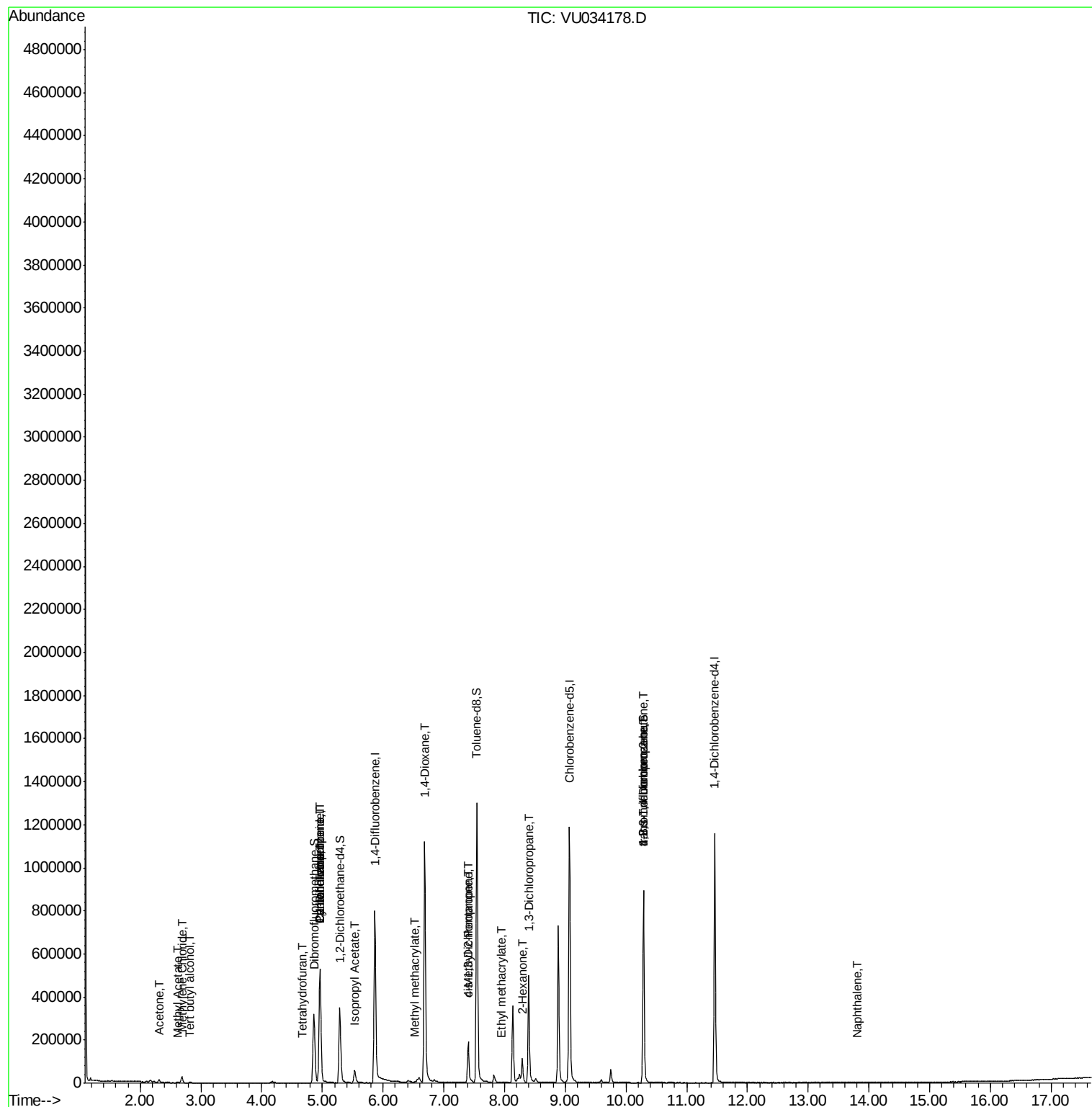
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	394	Below Cal	#	58
5) Bromomethane	1.60	94	41	Below Cal		92
11) Tert butyl alcohol	2.82	59	3029	2.372	ug/l #	73
16) Acetone	2.31	43	14532	5.144	ug/l	97
18) Methyl Acetate	2.61	43	3227	0.442	ug/l #	88
20) Methylene Chloride	2.69	84	12640	2.364	ug/l	97
29) Tetrahydrofuran	4.66	42	498	0.205	ug/l #	35
31) Cyclohexane	4.96	56	8435	1.020	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31007	4.777	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39302	6.272	ug/l #	16
43) Isopropyl Acetate	5.53	43	69773	6.309	ug/l	98
48) Methyl methacrylate	6.52	41	4122	0.772	ug/l #	14
49) 1,4-Dioxane	6.69	88	64	0.479	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	74758	9.788	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	34348	4.158	ug/l #	64
56) Ethyl methacrylate	7.95	69	288	1.005	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5372	0.618	ug/l #	42
59) 2-Hexanone	8.29	43	85849	14.890	ug/l #	23
76) 1,2,3-Trichloropropane	10.29	75	145757	20.128	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	145757	67.777	ug/l #	100
95) Naphthalene	13.79	128	20	1.791	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# 1204

Delta R.T. 0.00 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :

MSVOA_U

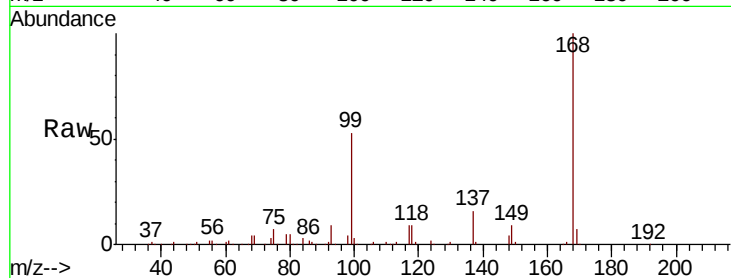
ClientSampled :

Tot Ion:168 Resp: 432086

Ion Ratio Lower Upper

168 100

99 53.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034178.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034178.D (-1185) (-)

4.96

200000

150000

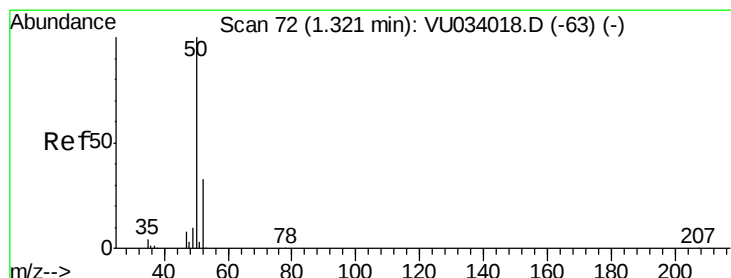
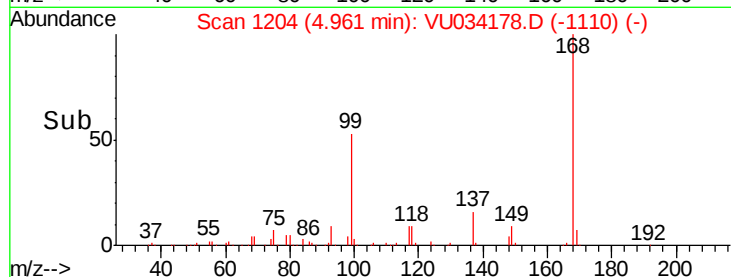
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034178.D

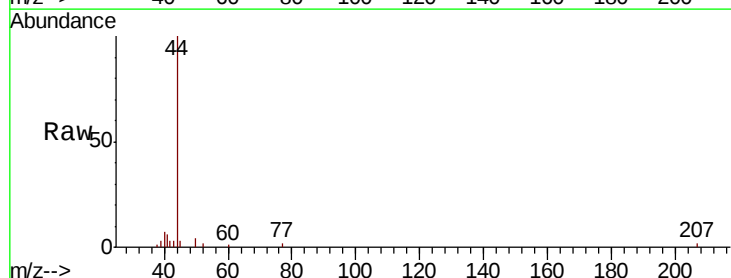
Acq: 01 Sep 2019 18:49

Tgt Ion: 50 Resp: 394

Ion Ratio Lower Upper

50 100

52 56.5 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034178.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034178.D (-63) (-)

1.32

400

300

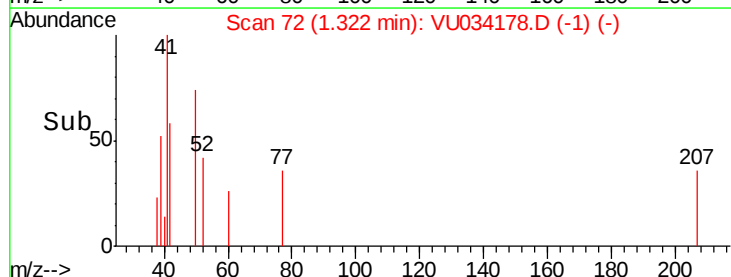
200

100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :

MSVOA_U

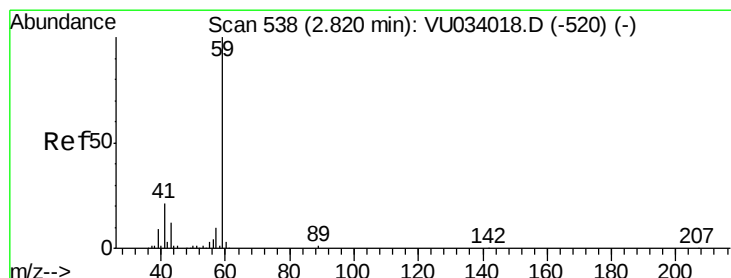
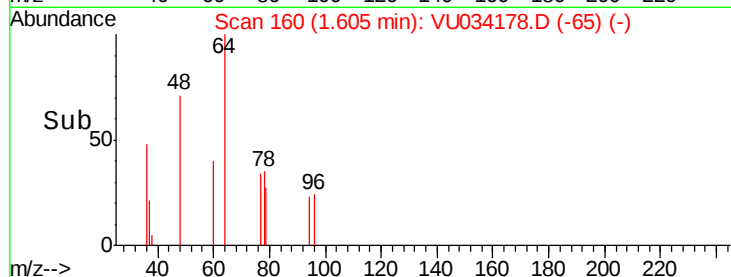
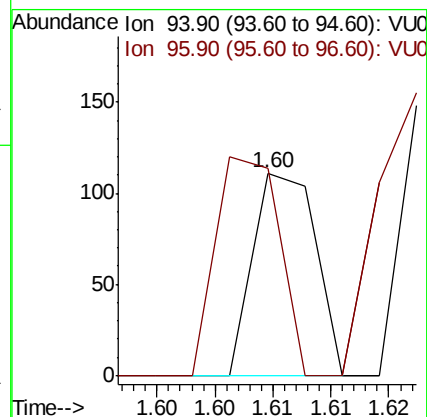
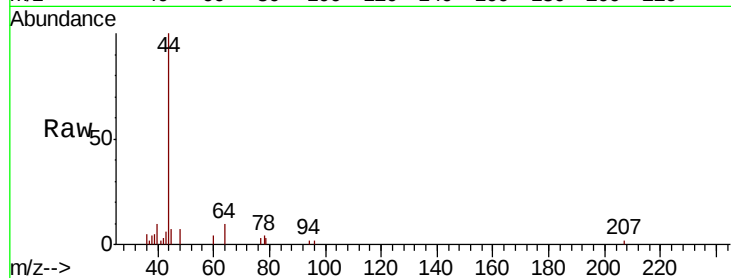
ClientSampleId :

Tot Ion: 94 Resp: 41

Ion Ratio Lower Upper

94 100

96 102.7 76.3 114.5



#11

Tert butyl alcohol

Concen: 2.372 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034178.D

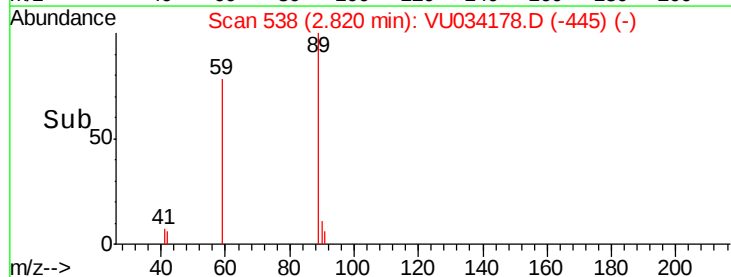
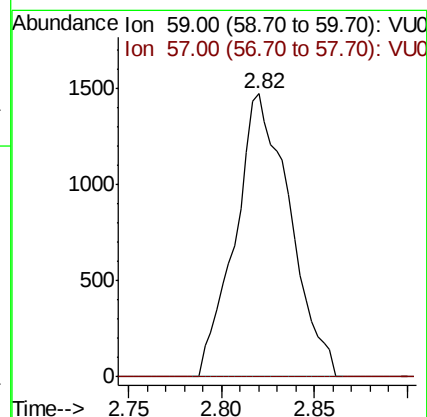
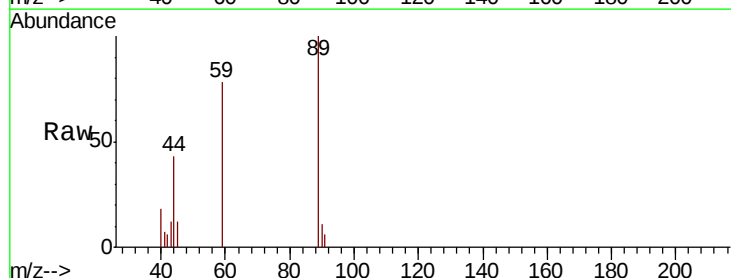
Acq: 01 Sep 2019 18:49

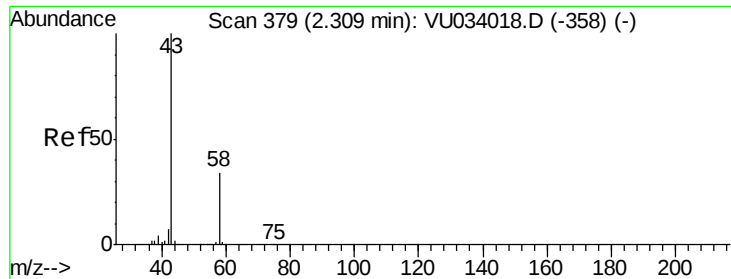
Tgt Ion: 59 Resp: 3029

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 5.144 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :

MSVOA_U

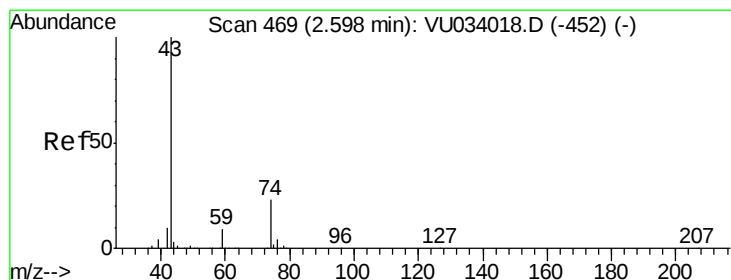
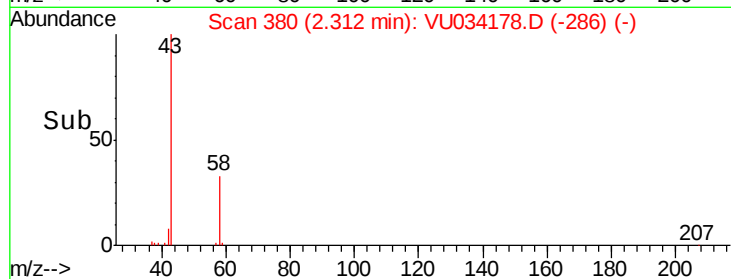
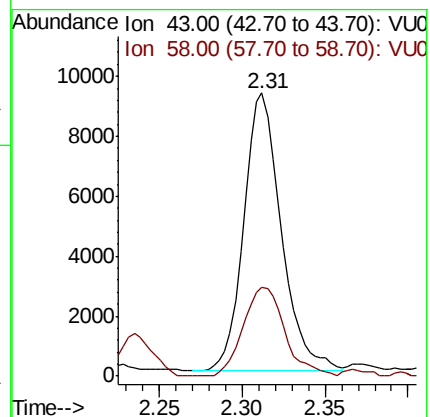
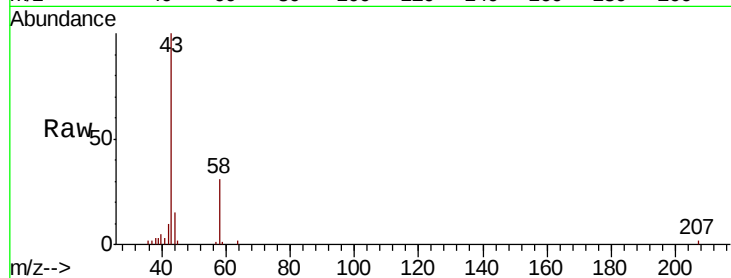
ClientSampleId :

Tot Ion: 43 Resp: 14532

Ion Ratio Lower Upper

43 100

58 32.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.442 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034178.D

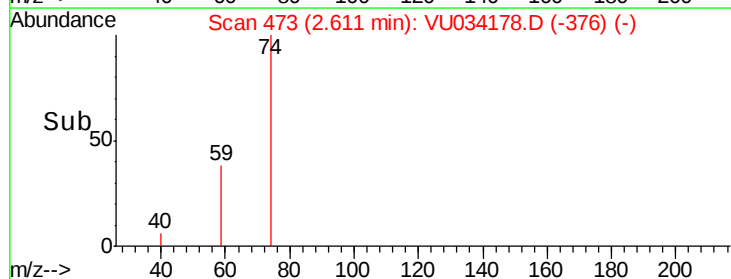
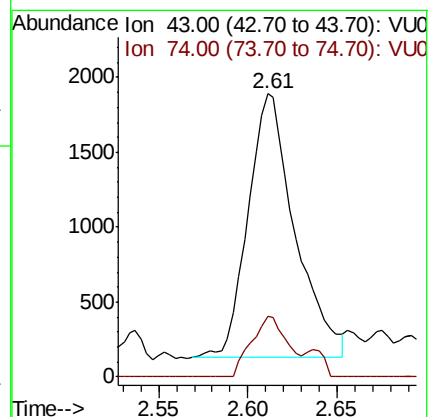
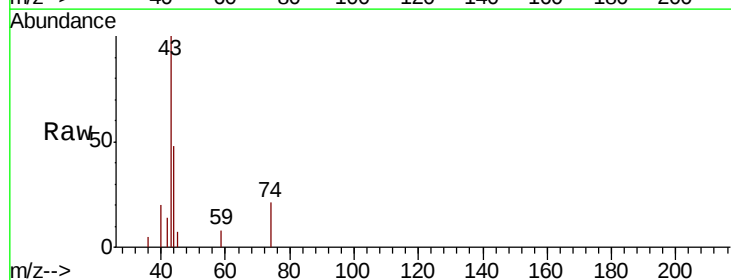
Acq: 01 Sep 2019 18:49

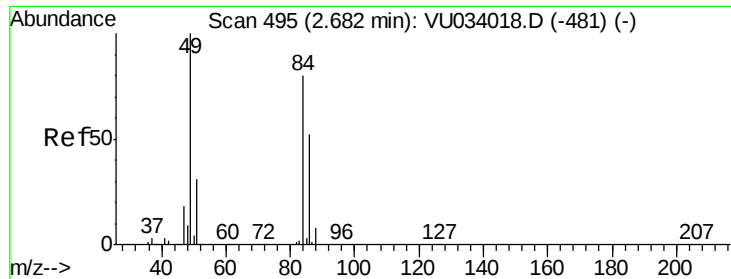
Tgt Ion: 43 Resp: 3227

Ion Ratio Lower Upper

43 100

74 17.9 19.2 28.8#

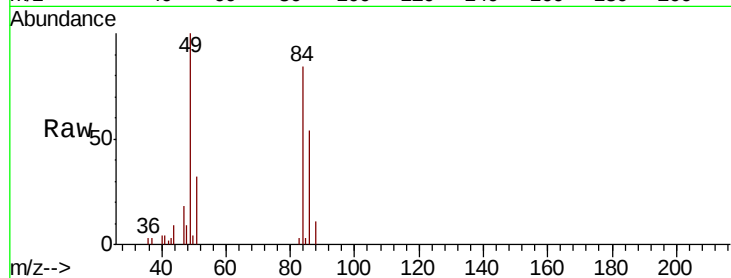




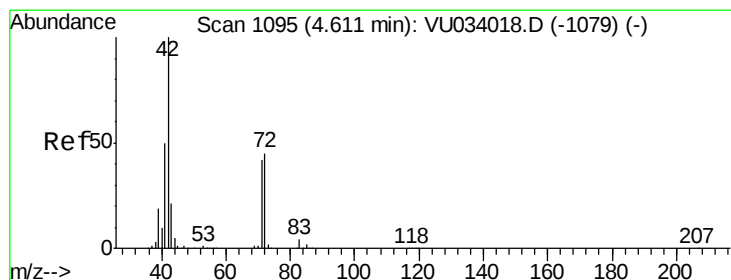
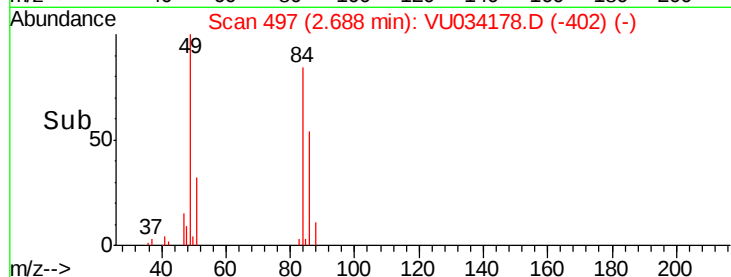
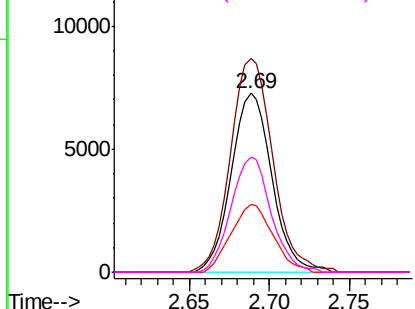
#20
Methvlene Chloride
Concen: 2.364 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	84	Resp:	12640
Ion	Ratio	Lower	Upper
84	100		
49	119.4	100.2	150.4
51	37.9	30.8	46.2
86	64.7	52.5	78.7

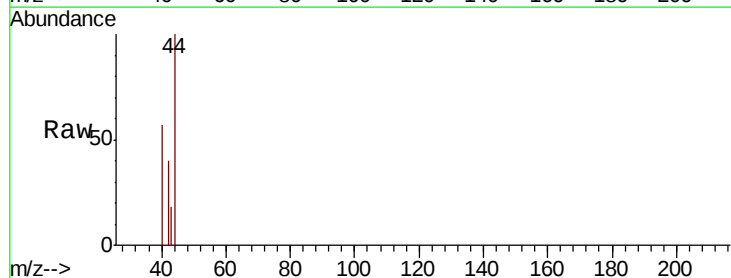


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

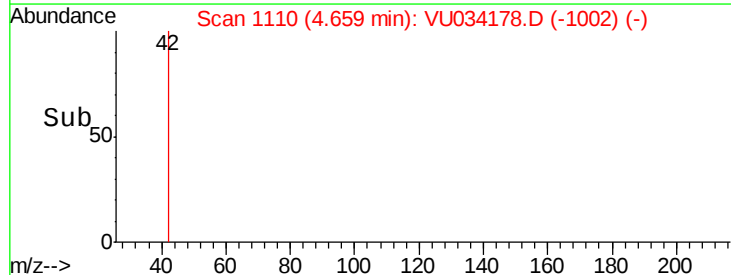
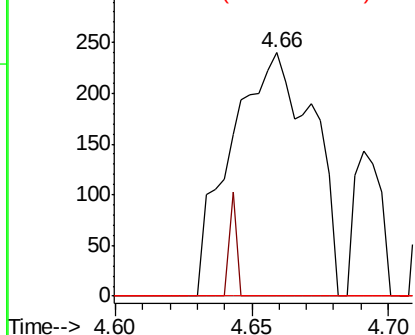


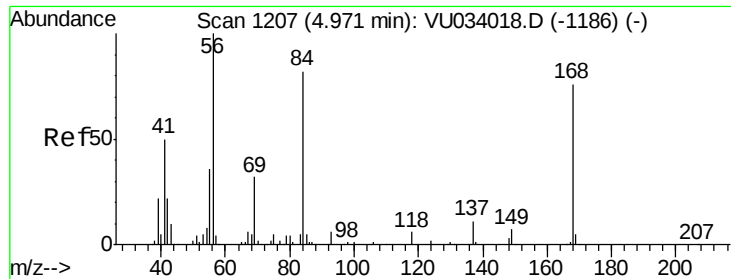
#29
Tetrahydrofuran
Concen: 0.205 ug/l
RT: 4.66 min Scan# 1110
Delta R.T. 0.05 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Tgt Ion:	42	Resp:	498
Ion	Ratio	Lower	Upper
42	100		
72	4.0	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

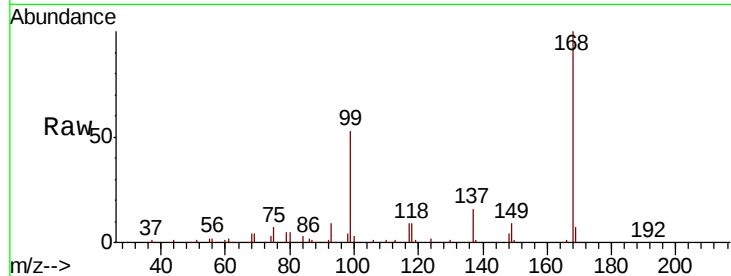




#31
Cyclohexane
Concen: 1.020 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	56	Resp	8435
Ion Ratio	Lower	Upper	
56	100		
69	191.3	25.4	38.0#
84	166.7	65.8	98.8#

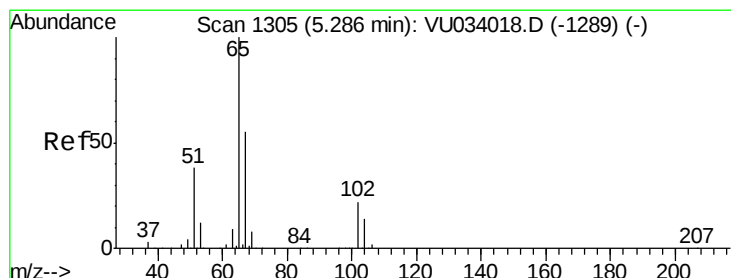
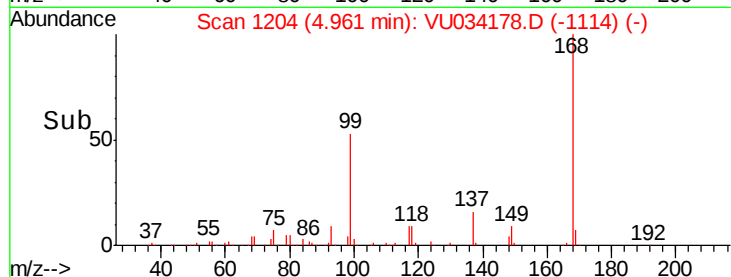
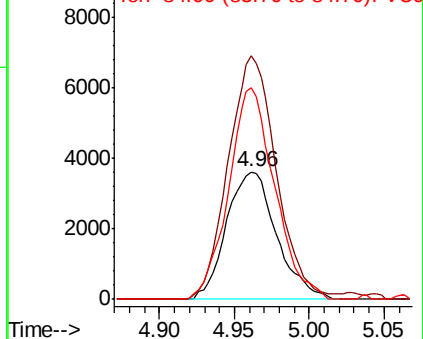


Abundance

Ion 56.00 (55.70 to 56.70): VU0

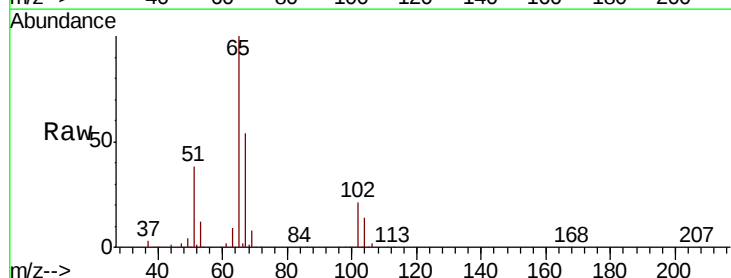
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33
1,2-Dichloroethane-d4
Concen: 49.720 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

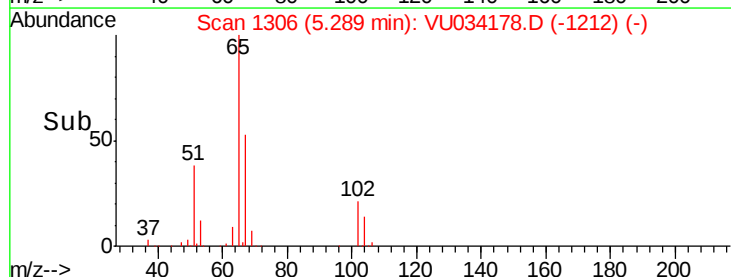
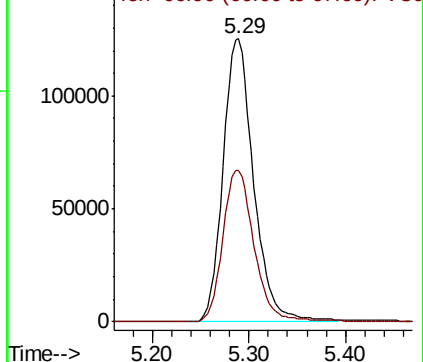
Tgt Ion	65	Resp	275275
Ion Ratio	Lower	Upper	
65	100		
67	54.4	0.0	110.6



Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

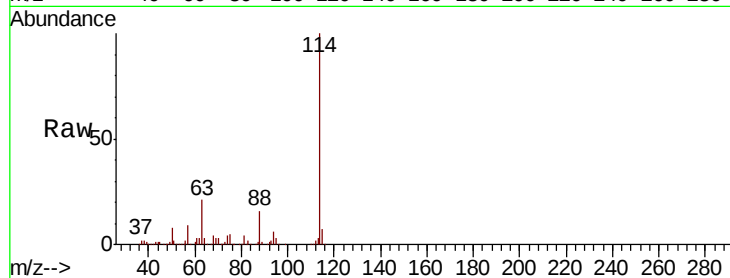




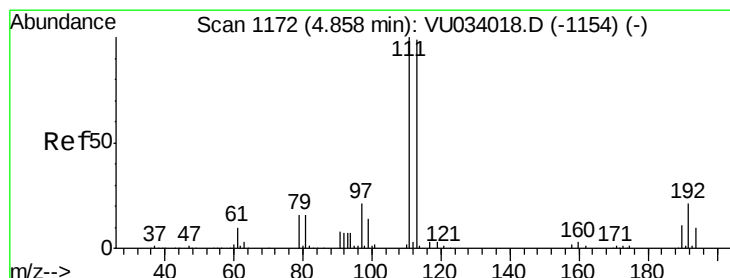
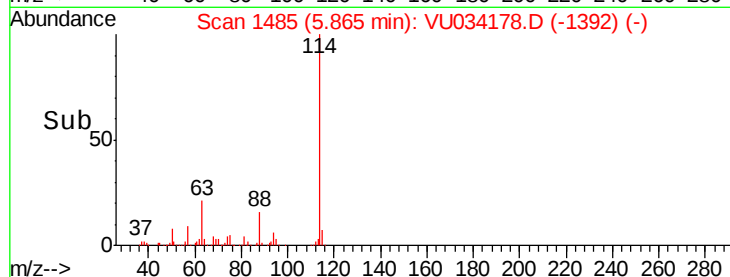
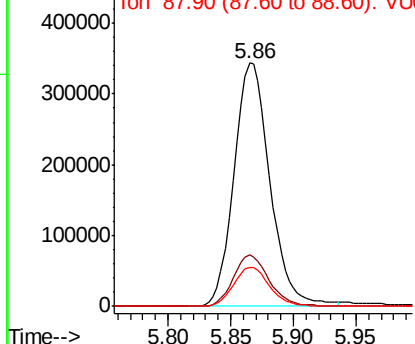
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034178.D
 Acq: 01 Sep 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.0
88	16.0	0.0	32.0

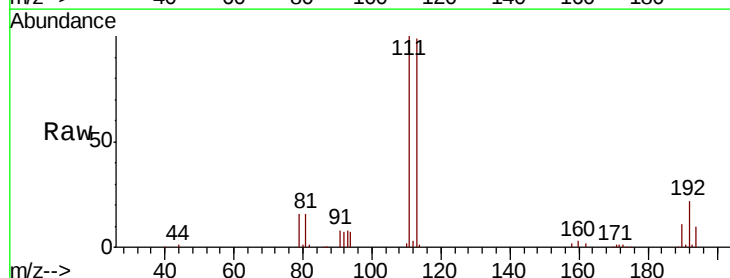


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

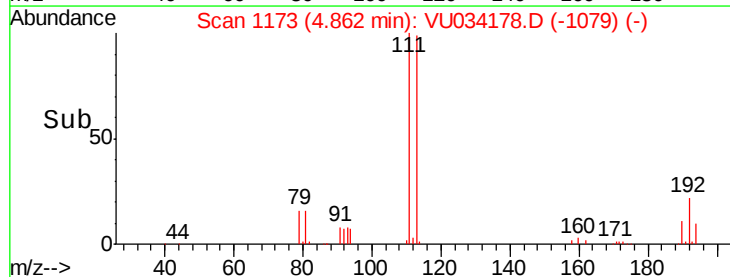
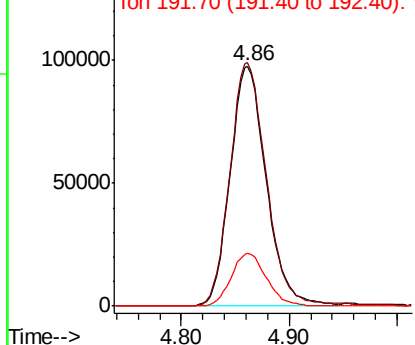


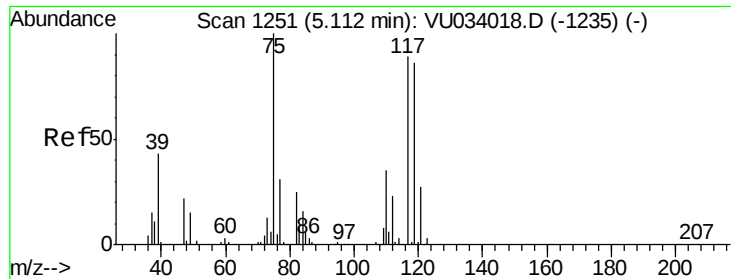
#35
 Dibromofluoromethane
 Concen: 47.795 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034178.D
 Acq: 01 Sep 2019 18:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.7	122.5
192	21.7	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

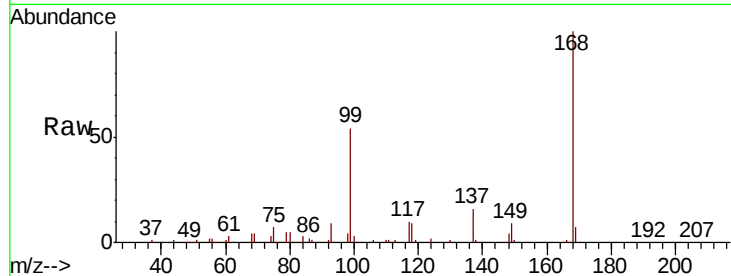




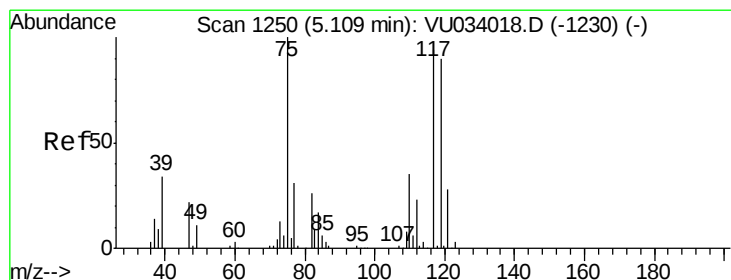
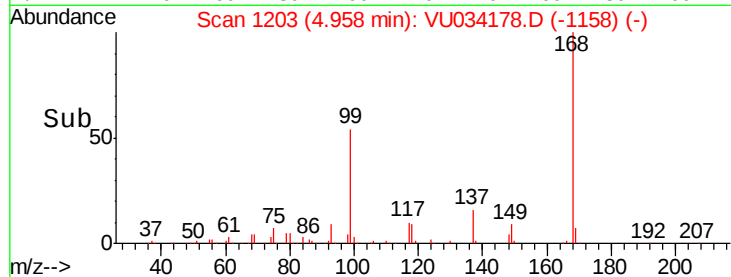
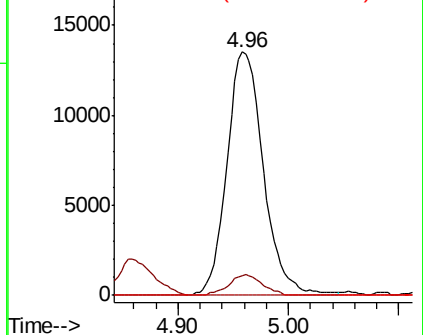
#36
 1,1-Dichloropropene
 Concen: 4.777 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034178.D
 Acq: 01 Sep 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	75	110	77	Resp	Lower	Upper
31007	100	7.6	0.0		17.8	53.5#
					25.0	37.4#

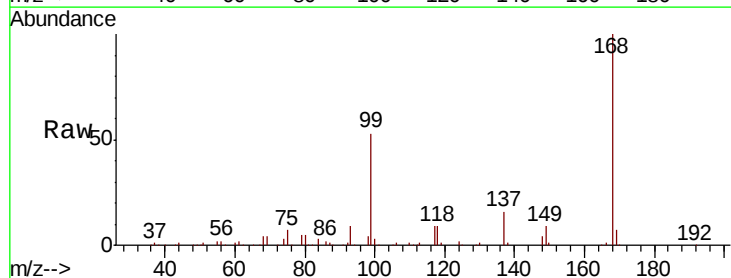


Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1235) (-)
 Ion 109.90 (109.60 to 110.60): VU034018.D (-1235) (-)
 Ion 76.90 (76.60 to 77.60): VU034018.D (-1235) (-)

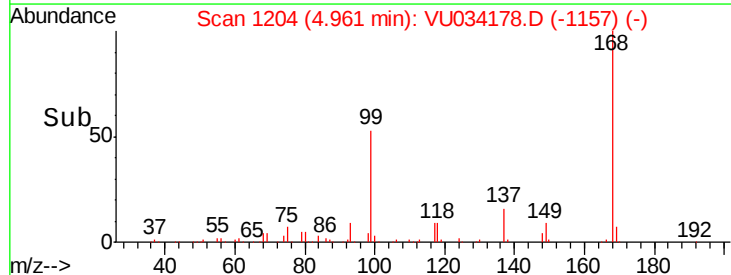
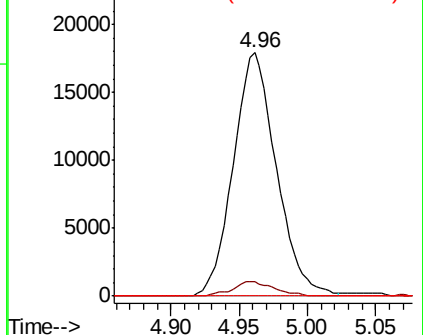


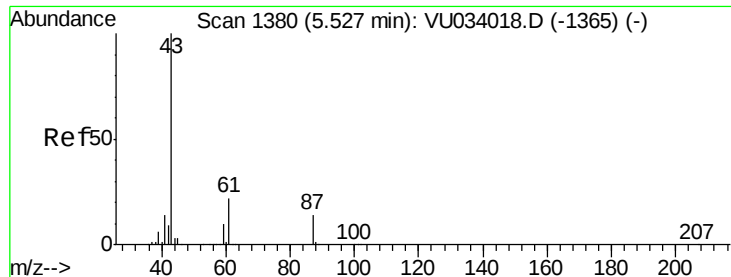
#38
 Carbon Tetrachloride
 Concen: 6.272 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034178.D
 Acq: 01 Sep 2019 18:49

Tgt Ion	117	119	121	Resp	Lower	Upper
39302	100	5.7	0.0		77.0	115.4#
					23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): VU034018.D (-1230) (-)
 Ion 118.80 (118.50 to 119.50): VU034018.D (-1230) (-)
 Ion 120.80 (120.50 to 121.50): VU034018.D (-1230) (-)

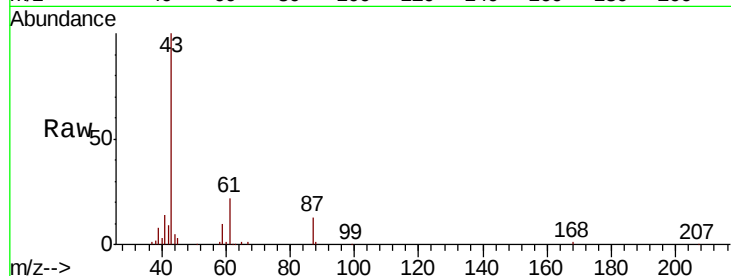




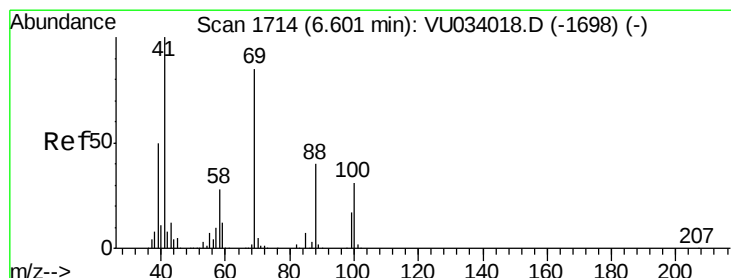
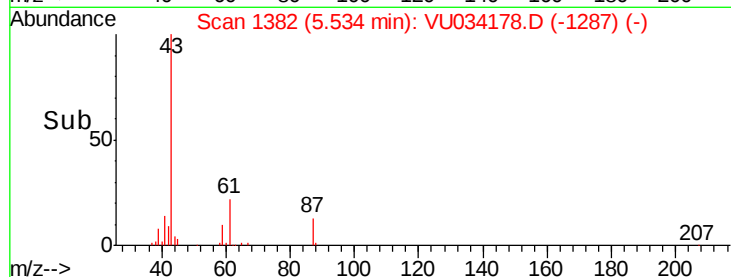
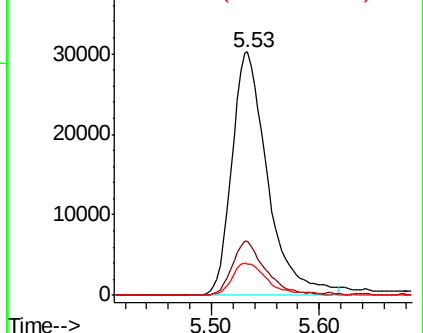
#43
Isopropyl Acetate
Concen: 6.309 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 69773
Ion Ratio Lower Upper
43 100
61 20.7 17.2 25.8
87 12.9 10.8 16.2

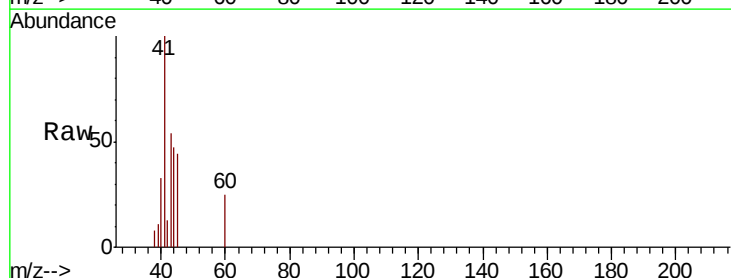


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

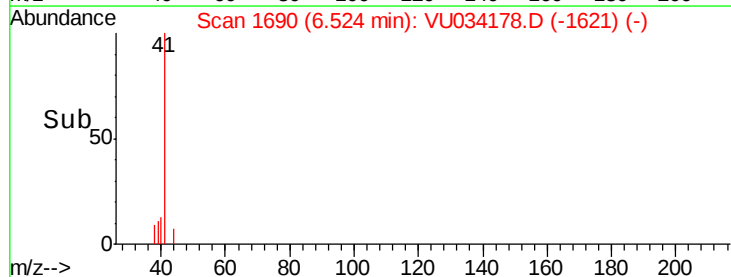
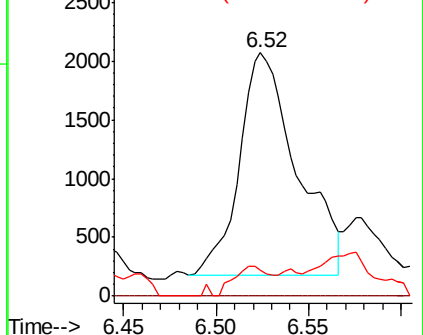


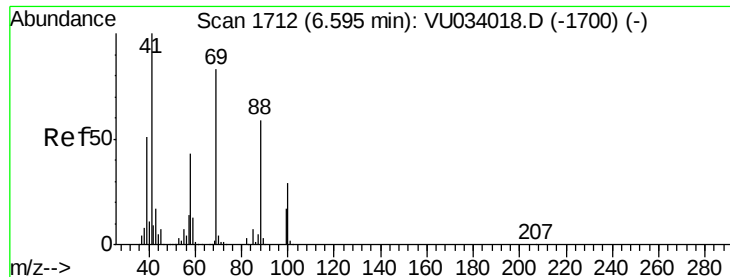
#48
Methyl methacrylate
Concen: 0.772 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Tgt Ion: 41 Resp: 4122
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 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: 0.479 ug/l

RT: 6.69 min Scan# 1742

Delta R.T. 0.10 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :

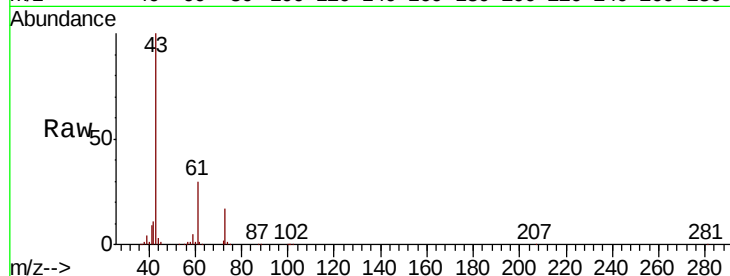
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

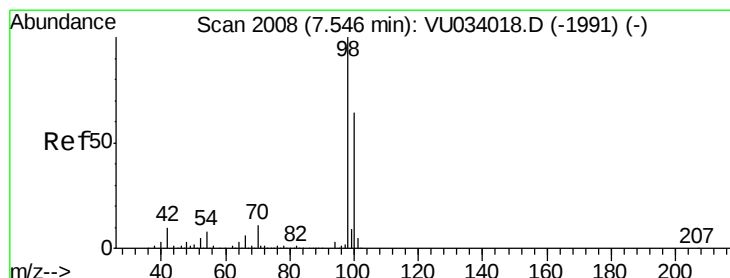
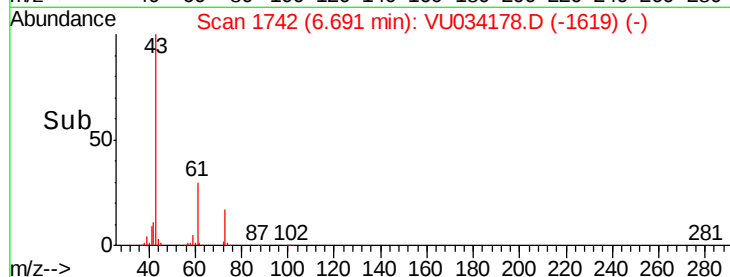
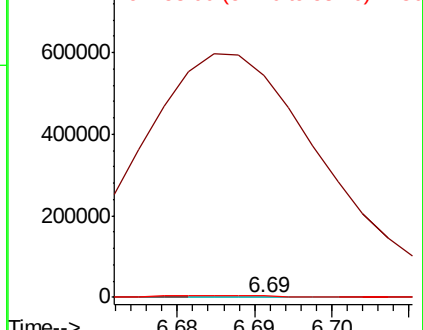
88 100

43 1710645.3 24.8 37.2#

58 9818.8 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: 50.854 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034178.D

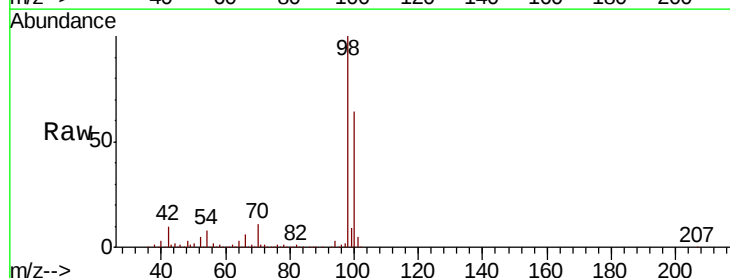
Acq: 01 Sep 2019 18:49

Tgt Ion: 98 Resp: 906379

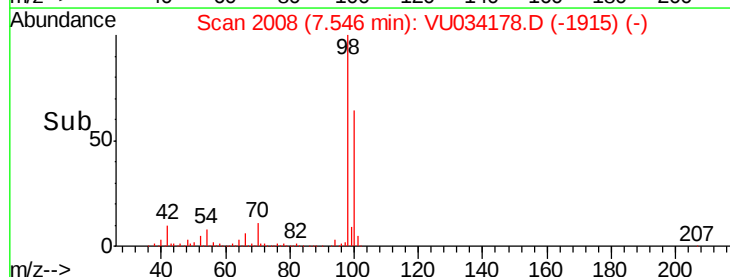
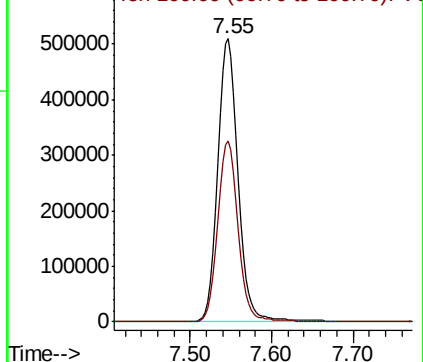
Ion Ratio Lower Upper

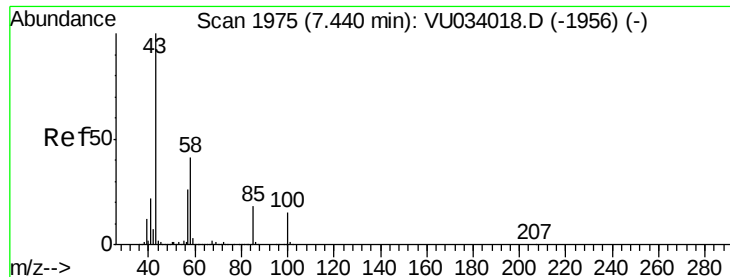
98 100

100 64.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 9.788 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :

MSVOA_U

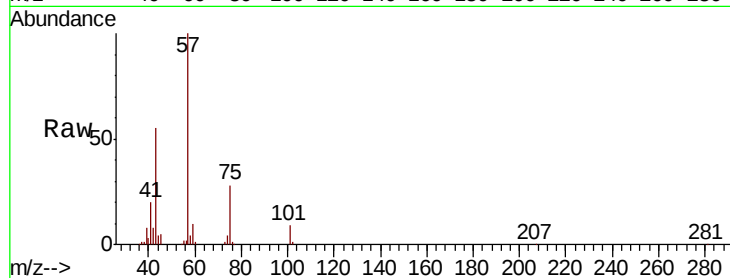
ClientSampleId :

Tot Ion: 43 Resp: 74758

Ion Ratio Lower Upper

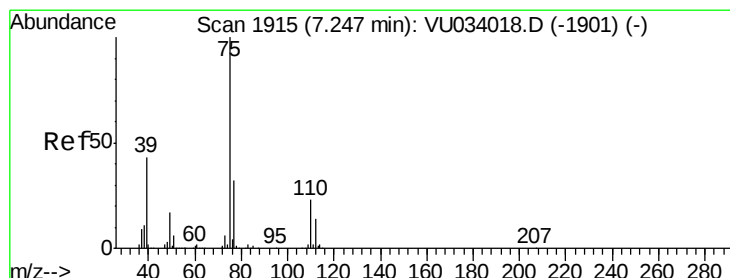
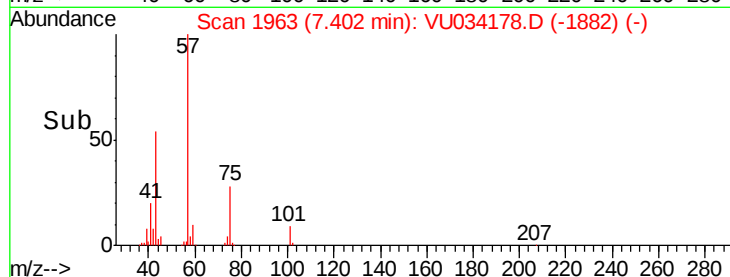
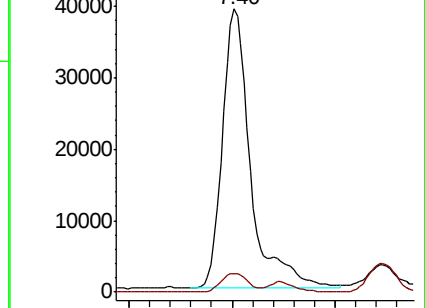
43 100

58 6.4 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034178.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034178.D (-1956) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.158 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

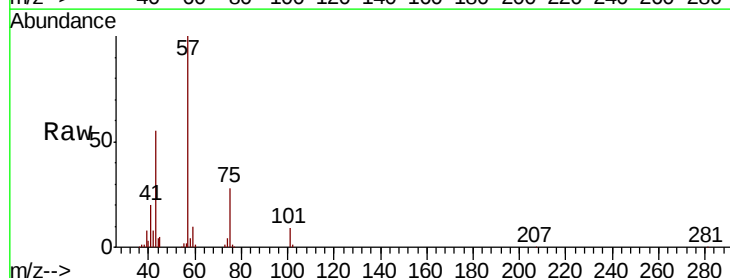
Tgt Ion: 75 Resp: 34348

Ion Ratio Lower Upper

75 100

77 1.0 25.2 37.8#

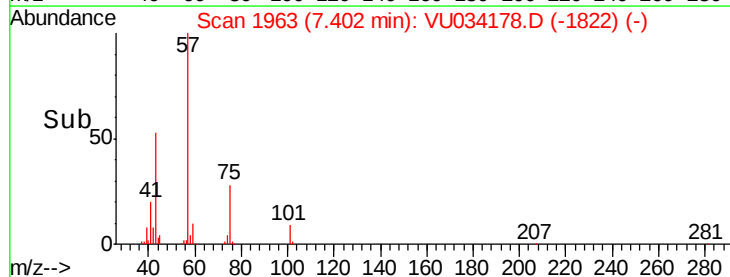
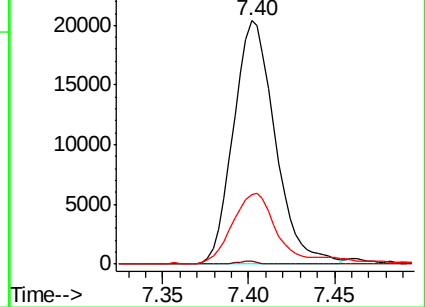
39 28.7 34.6 51.8#

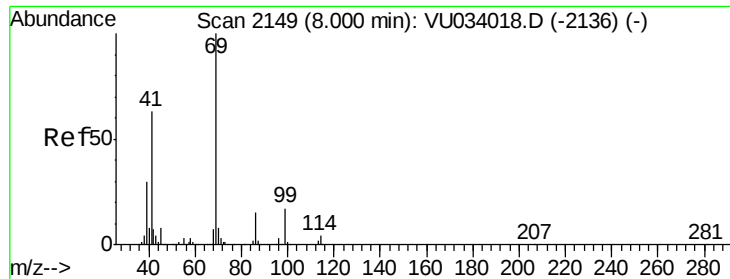


Abundance Ion 74.90 (74.60 to 75.60): VU034178.D (-1882) (-)

Ion 76.90 (76.60 to 77.60): VU034178.D (-1882) (-)

Ion 39.00 (38.70 to 39.70): VU034178.D (-1882) (-)





#56

Ethyl methacrylate

Concen: 1.005 ug/l

RT: 7.95 min Scan# 2133

Delta R.T. -0.05 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :

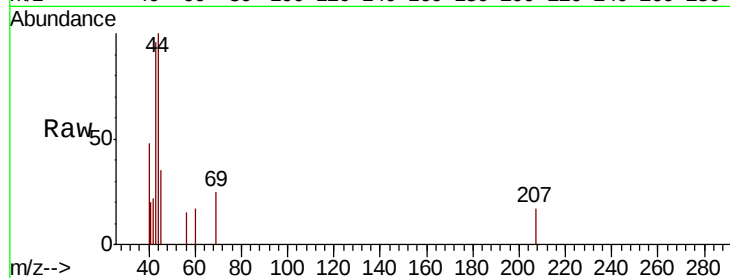
Tot Ion: 69 Resp: 288

Ion Ratio Lower Upper

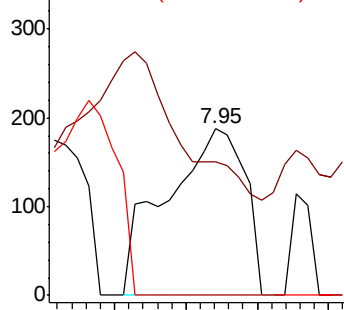
69 100

41 0.0 50.7 76.1#

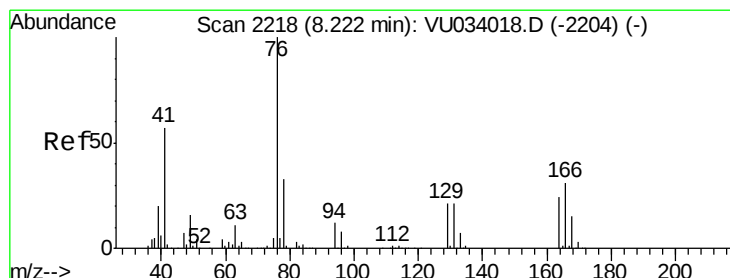
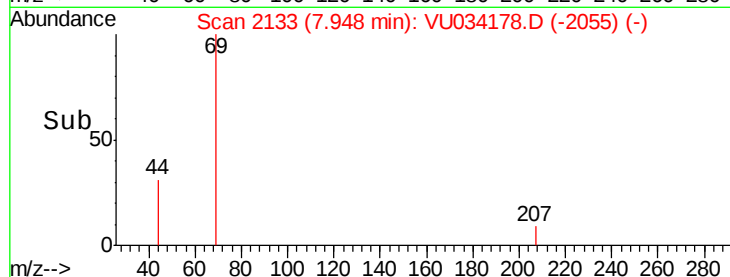
39 0.0 24.2 36.2#



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



Time-->



#57

1,3-Dichloropropane

Concen: 0.618 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034178.D

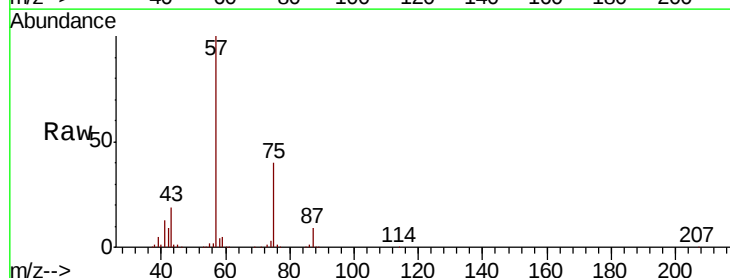
Acq: 01 Sep 2019 18:49

Tgt Ion: 76 Resp: 5372

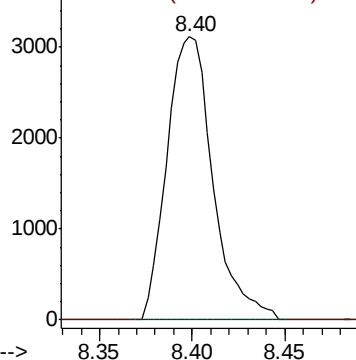
Ion Ratio Lower Upper

76 100

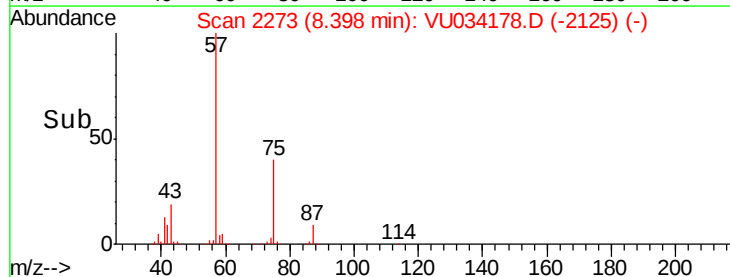
78 0.0 26.2 39.4#

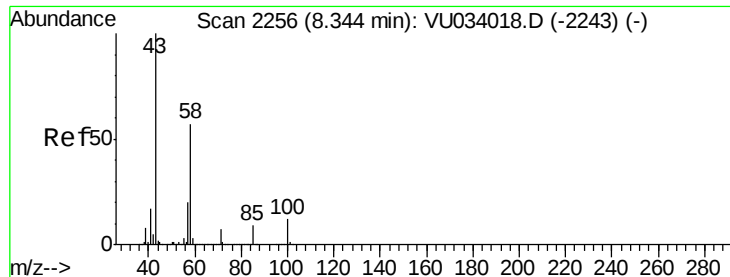


Abundance Ion 75.90 (75.60 to 76.60): VU0
Ion 77.90 (77.60 to 78.60): VU0



Time-->

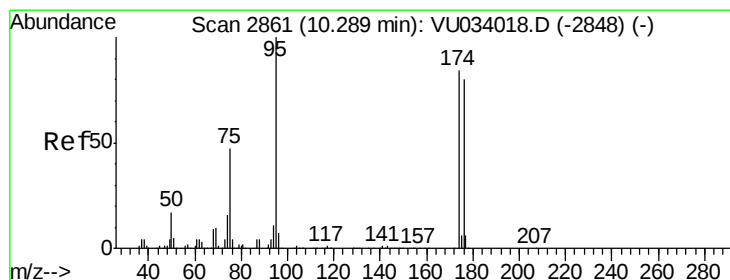
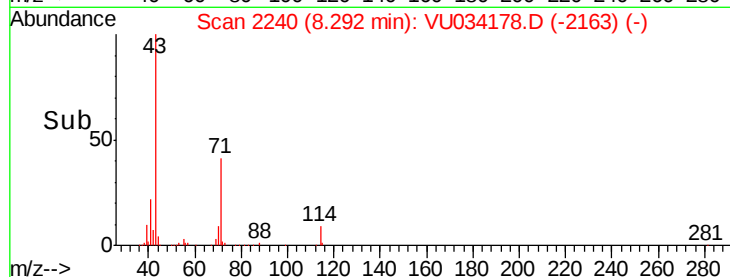
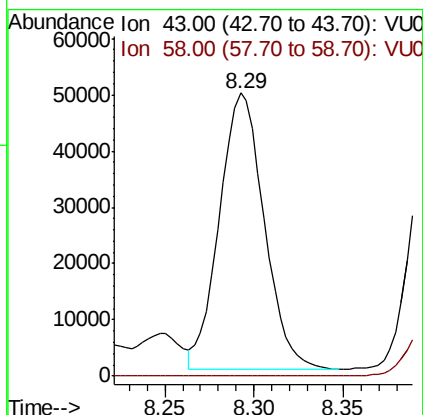
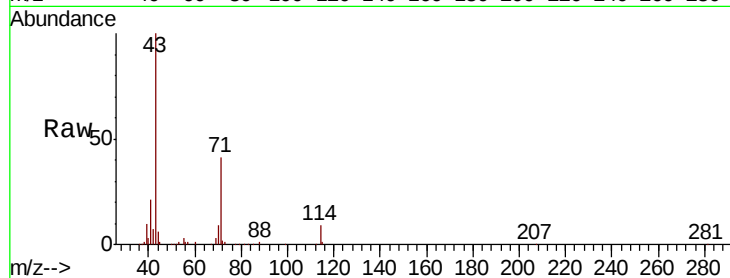




#59
2-Hexanone
Concen: 14.890 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

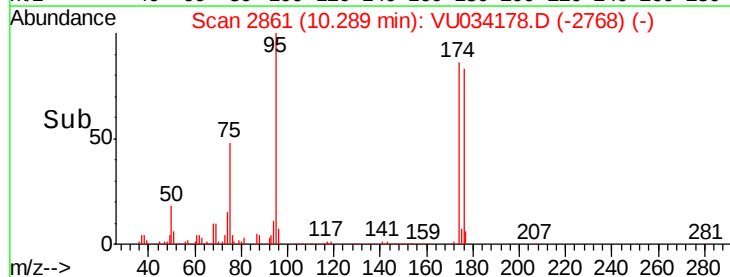
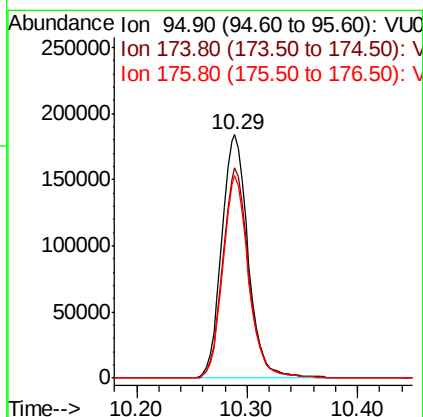
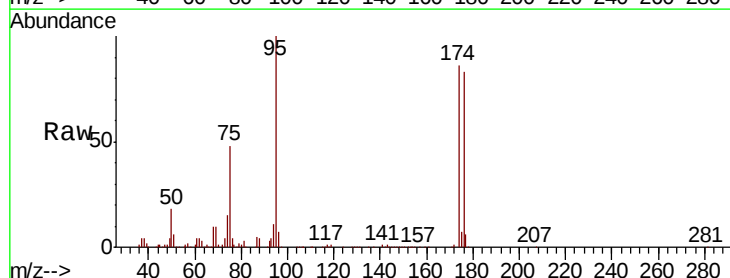
Instrument :
MSVOA_U
ClientSampled :

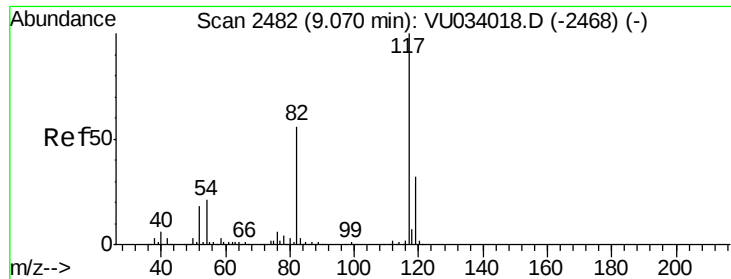
Tot Ion: 43 Resp: 85849
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.227 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Tgt Ion: 95 Resp: 306629
Ion Ratio Lower Upper
95 100
174 84.9 0.0 168.8
176 80.8 0.0 161.8

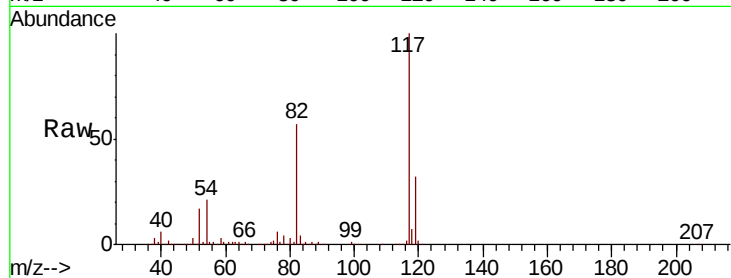




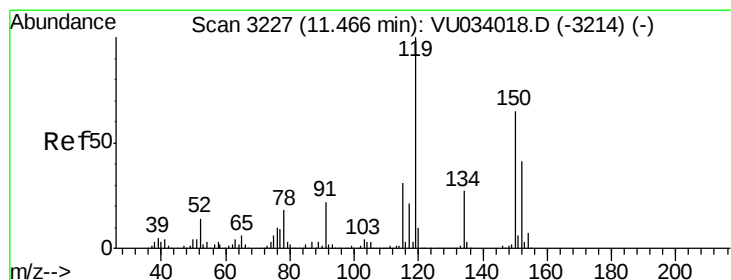
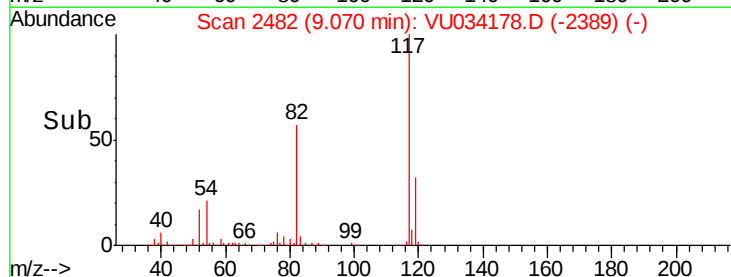
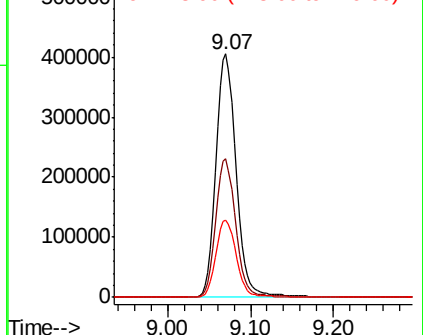
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.1	67.7
119	31.9	25.4	38.0

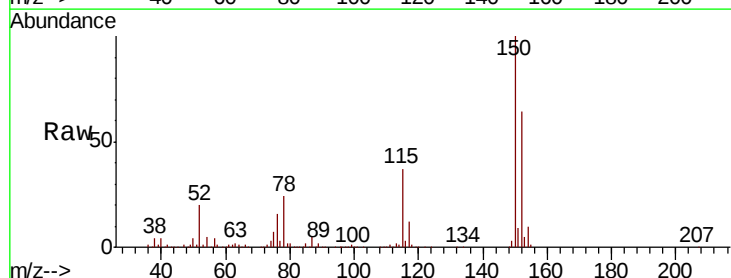


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

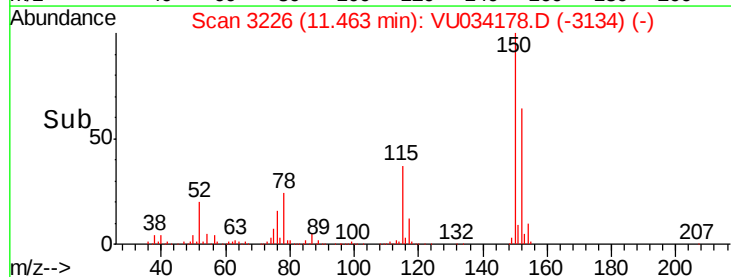
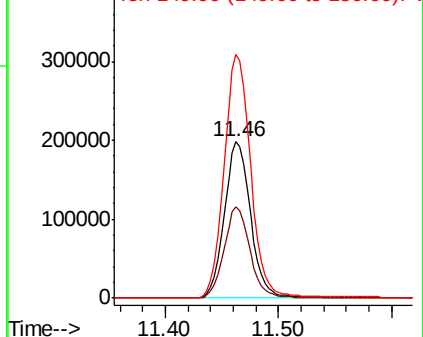


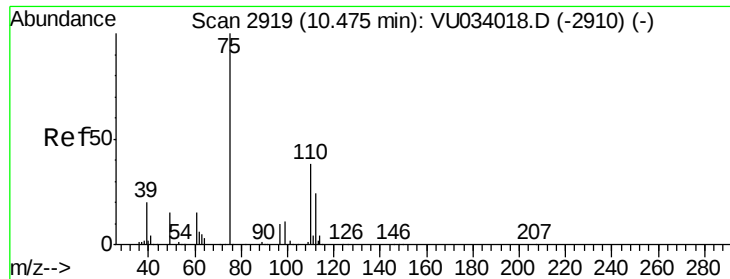
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	41.1	123.3
150	157.8	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: 20.128 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

Instrument :

MSVOA_U

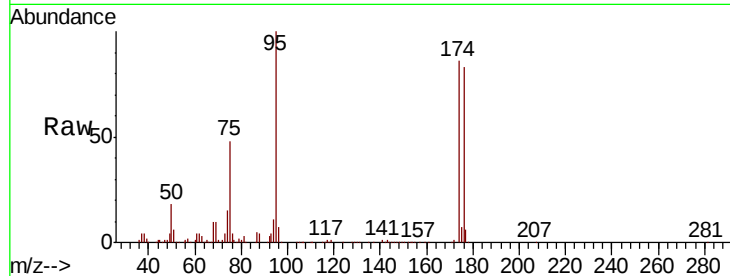
ClientSampleId :

Tot Ion: 75 Resp: 145757

Ion Ratio Lower Upper

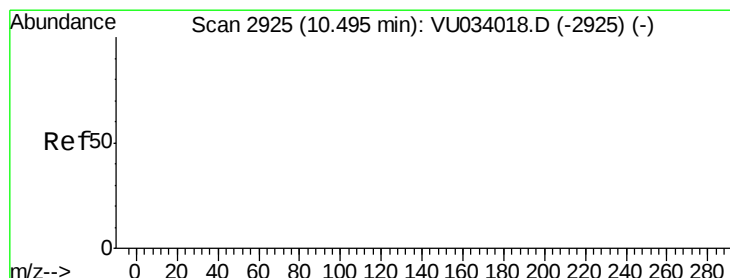
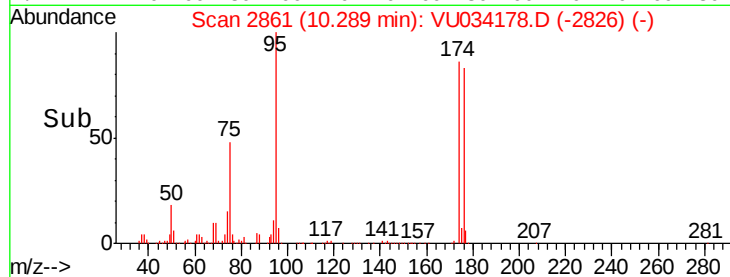
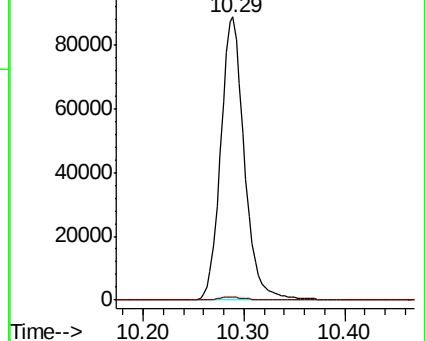
75 100

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: 67.777 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034178.D

Acq: 01 Sep 2019 18:49

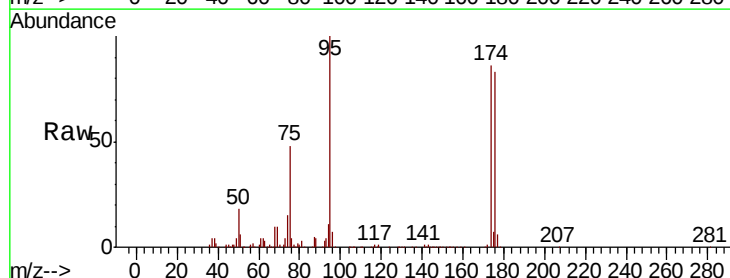
Tgt Ion: 75 Resp: 145757

Ion Ratio Lower Upper

75 100

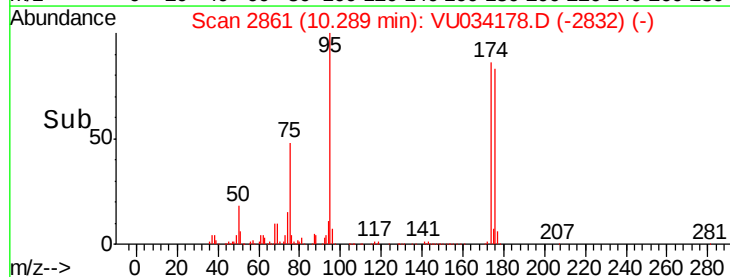
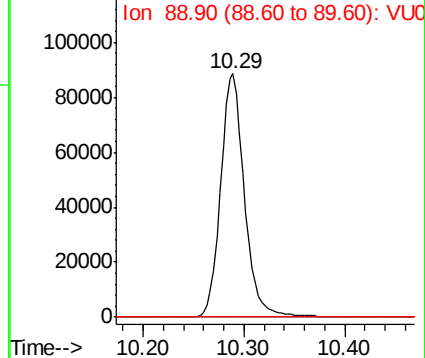
53 0.1 0.0 0.0#

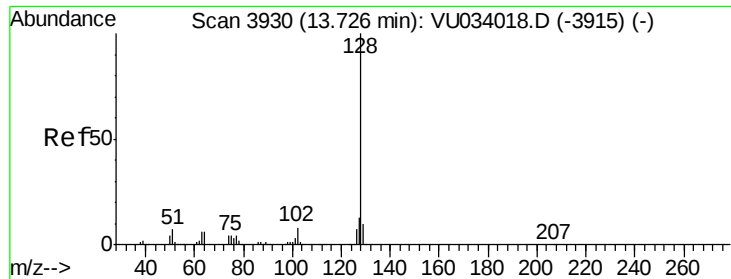
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

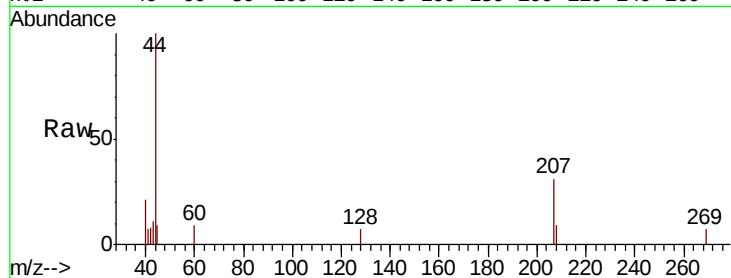




#95
Naphthalene
Concen: 1.791 ug/l
RT: 13.79 min Scan# 3951
Delta R.T. 0.07 min
Lab File: VU034178.D
Acq: 01 Sep 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :

Tot 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

