

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034180.D
 Acq On : 01 Sep 2019 19:35
 Operator : JC/SP
 Sample : K4527-31
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:35:46 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	429463	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	704280	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	700652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	339481	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	278195	50.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.10%	
35) Dibromofluoromethane	4.86	113	229554	46.99	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.98%	
50) Toluene-d8	7.55	98	913894	49.97	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	10.29	95	319138	44.86	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.72%	

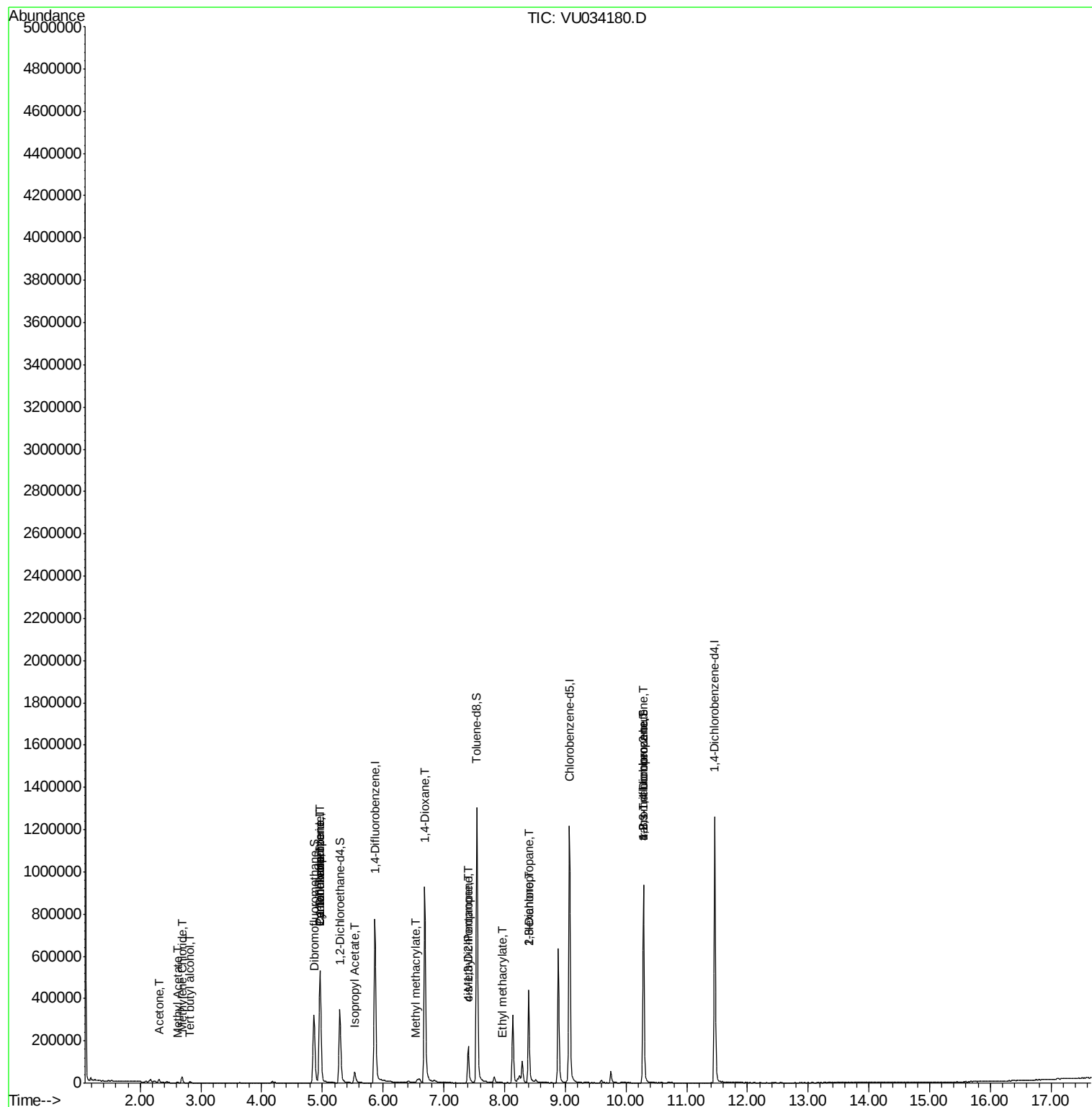
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	551	Below Cal	#	88
5) Bromomethane	1.57	94	19	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3769	2.970	ug/l #	73
16) Acetone	2.31	43	17693	6.301	ug/l	97
18) Methyl Acetate	2.61	43	3220	0.444	ug/l #	85
20) Methylene Chloride	2.69	84	13378	2.517	ug/l	96
31) Cyclohexane	4.96	56	7735	0.941	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30493	4.577	ug/l #	49
38) Carbon Tetrachloride	4.96	117	38996	6.065	ug/l #	17
43) Isopropyl Acetate	5.53	43	60823	5.359	ug/l	98
48) Methyl methacrylate	6.53	41	3908	0.714	ug/l #	14
49) 1,4-Dioxane	6.68	88	41	0.299	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67464	8.608	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	32034	3.779	ug/l #	67
56) Ethyl methacrylate	7.95	69	199	0.994	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	4223	0.474	ug/l #	42
59) 2-Hexanone	8.40	43	59611	10.075	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	153849	20.108	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153849	67.707	ug/l #	100

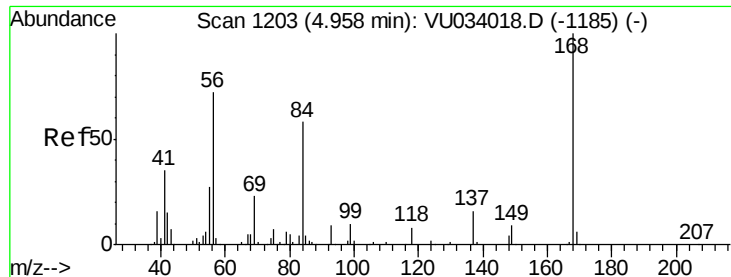
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

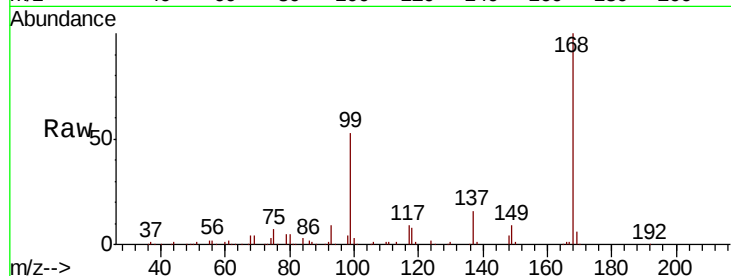
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 429463

Ion Ratio Lower Upper

168 100

99 52.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034180.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034180.D (-1185) (-)

4.96

200000

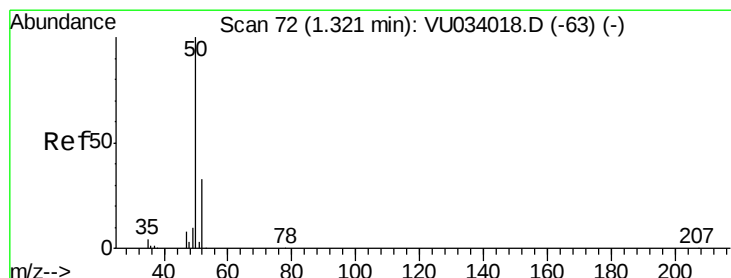
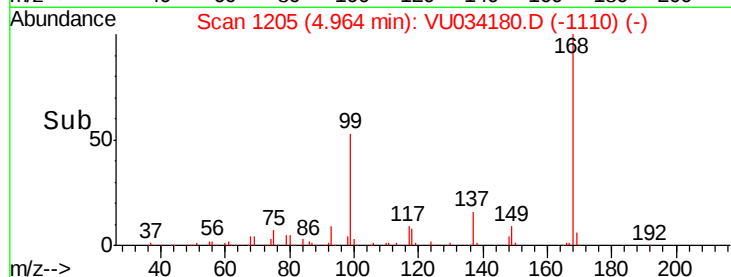
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034180.D

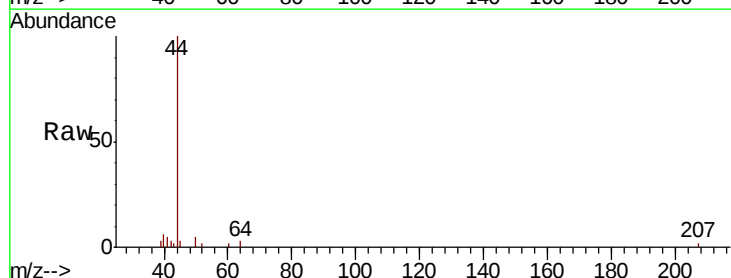
Acq: 01 Sep 2019 19:35

Tgt Ion: 50 Resp: 551

Ion Ratio Lower Upper

50 100

52 39.4 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034180.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034180.D (-63) (-)

1.32

500

400

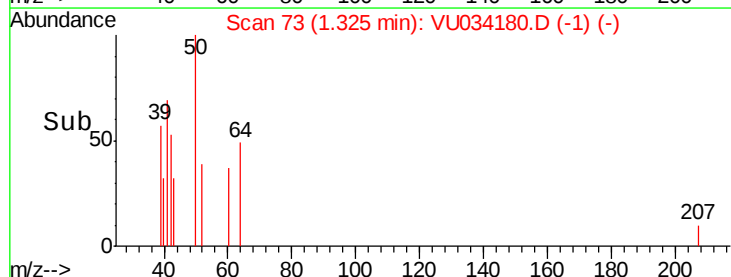
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.57 min Scan# 150

Delta R.T. -0.03 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

Instrument :

MSVOA_U

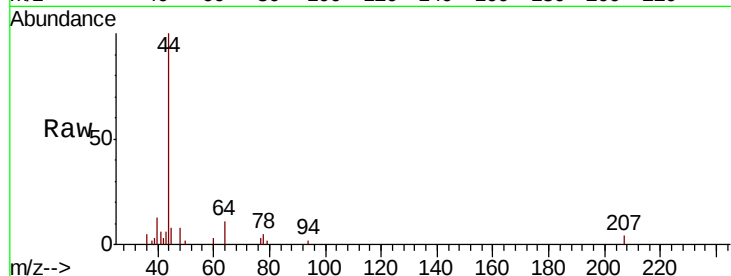
ClientSampleId :

Tot Ion: 94 Resp: 19

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

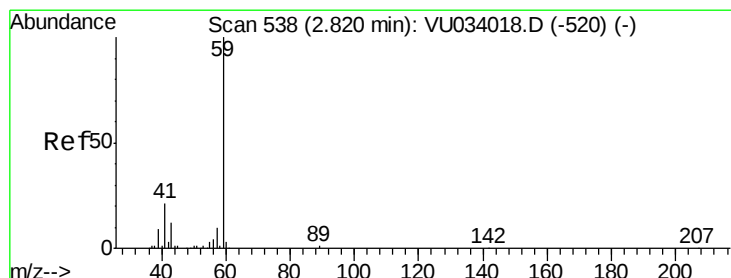
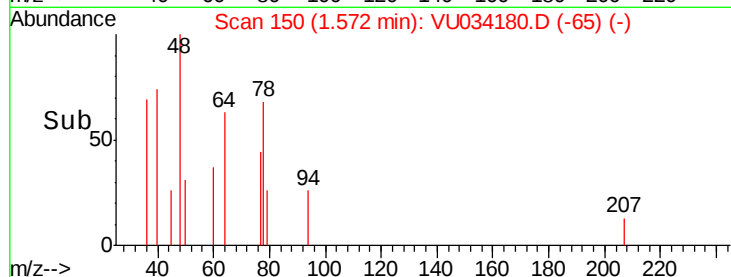
40

20

0

1.56 1.56 1.57 1.58 1.58

Time-->



#11

Tert butyl alcohol

Concen: 2.970 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034180.D

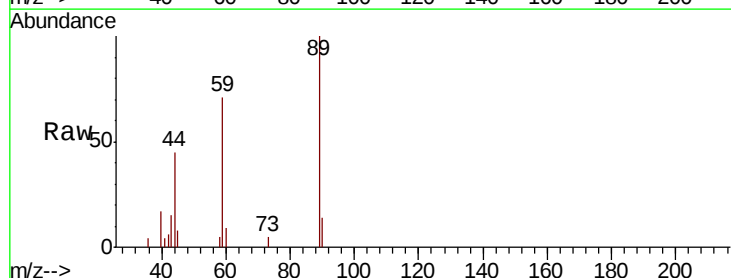
Acq: 01 Sep 2019 19:35

Tgt Ion: 59 Resp: 3769

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2000

1500

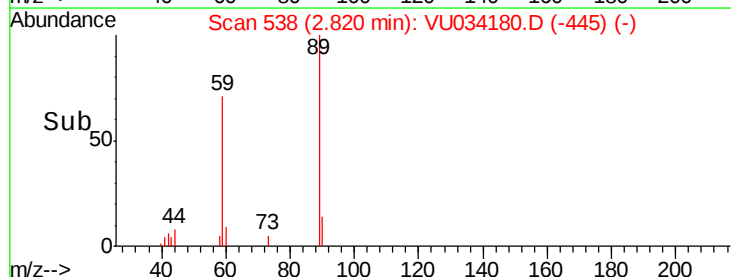
1000

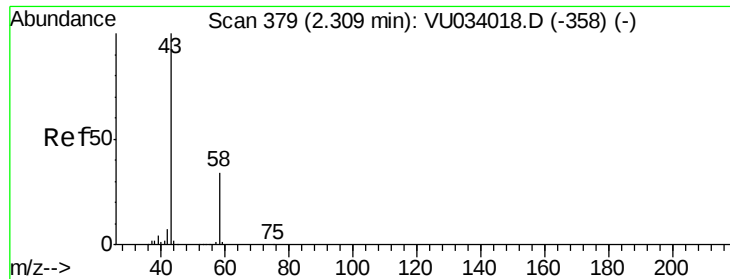
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 6.301 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

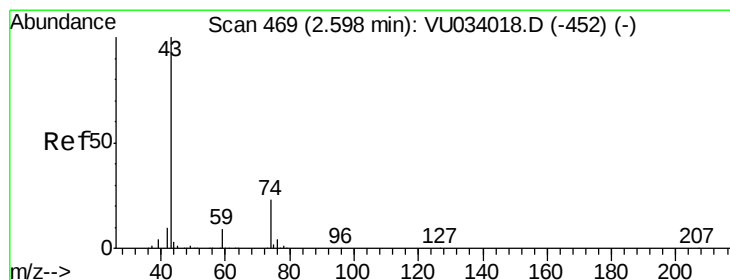
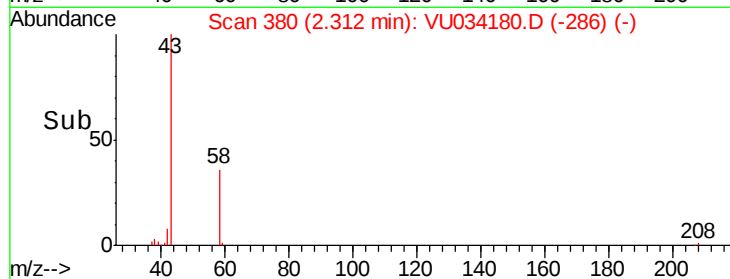
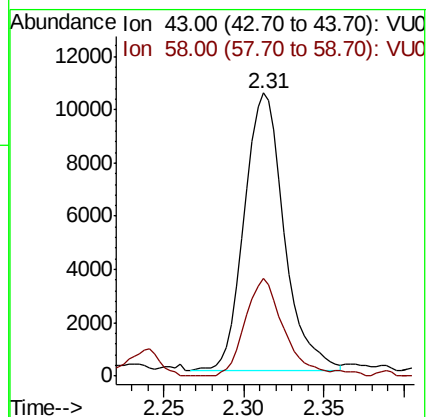
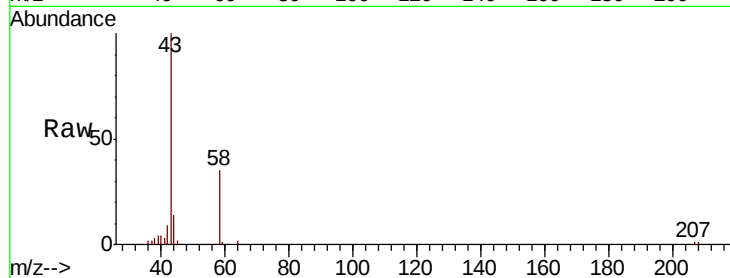
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 17693

Ion Ratio Lower Upper

43 100

58 35.2 26.8 40.2



#18

Methyl Acetate

Concen: 0.444 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034180.D

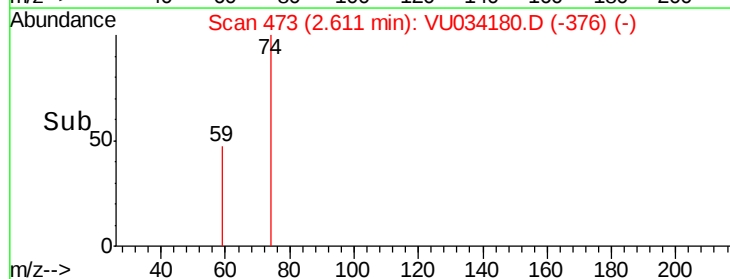
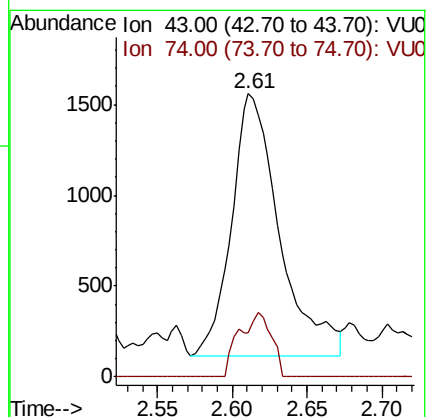
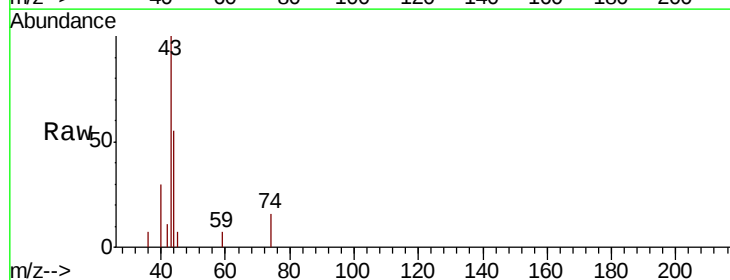
Acq: 01 Sep 2019 19:35

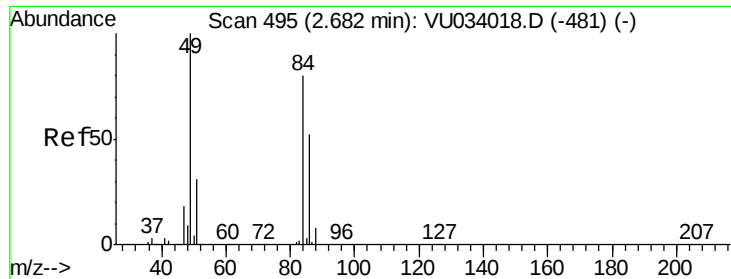
Tgt Ion: 43 Resp: 3220

Ion Ratio Lower Upper

43 100

74 16.4 19.2 28.8#

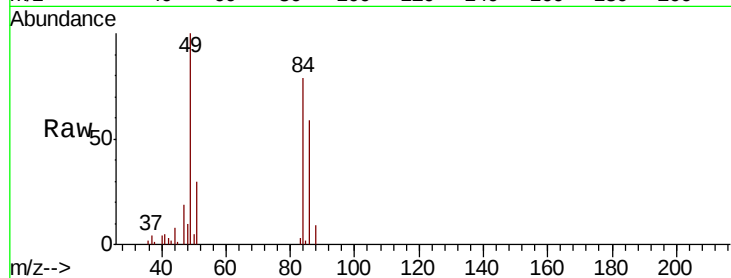




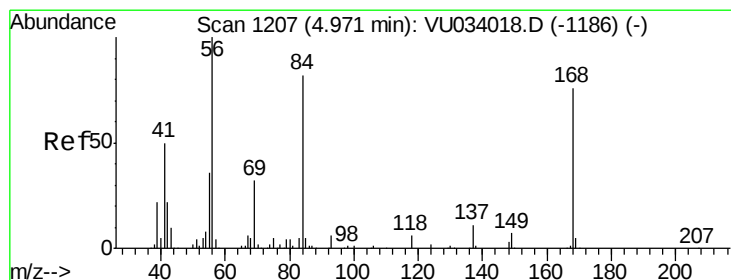
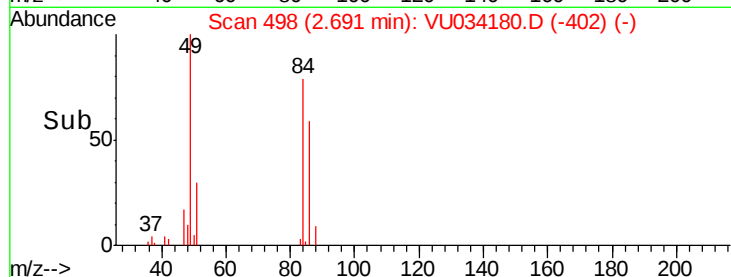
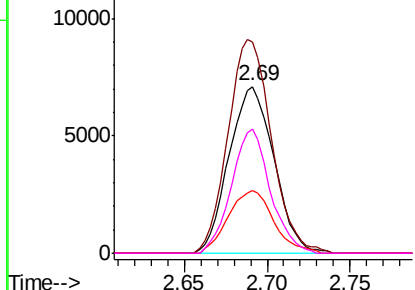
#20
Methvlene Chloride
Concen: 2.517 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	84	Resp:	13378
Ion	Ratio	Lower	Upper
84	100		
49	126.8	100.2	150.4
51	37.5	30.8	46.2
86	74.2	52.5	78.7

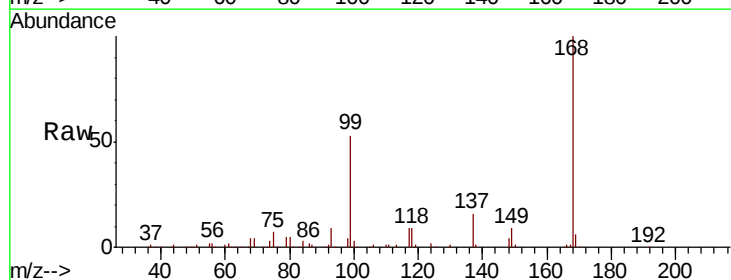


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

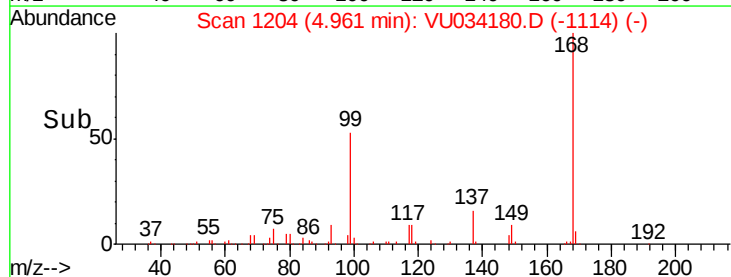
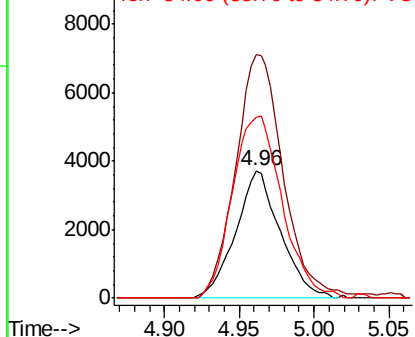


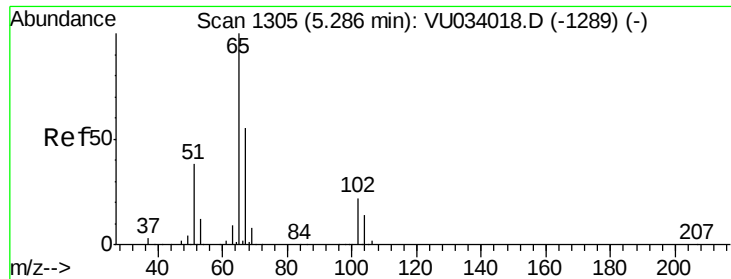
#31
Cyclohexane
Concen: 0.941 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Tgt Ion:	56	Resp:	7735
Ion	Ratio	Lower	Upper
56	100		
69	191.4	25.4	38.0#
84	142.7	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

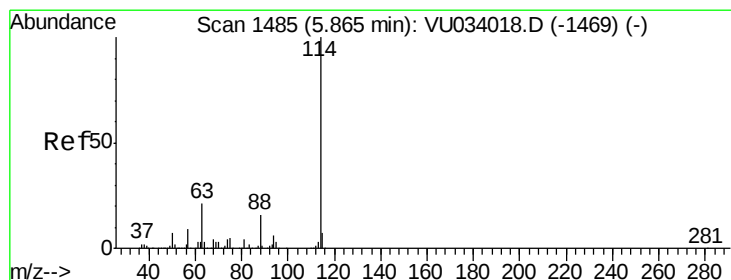
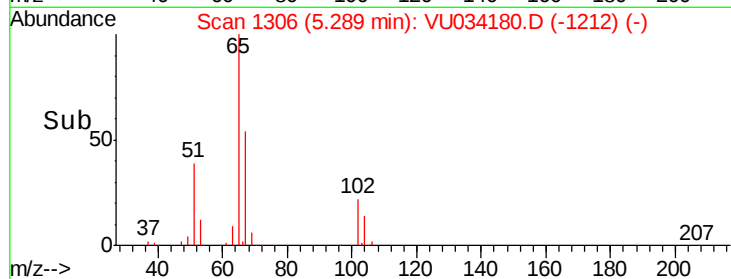
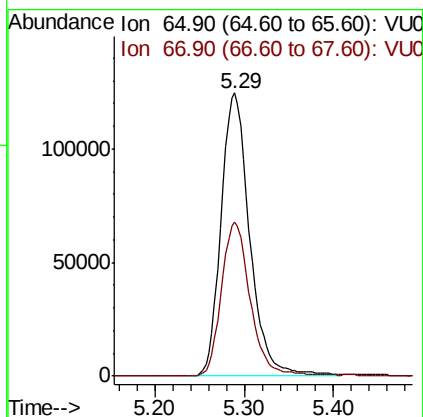
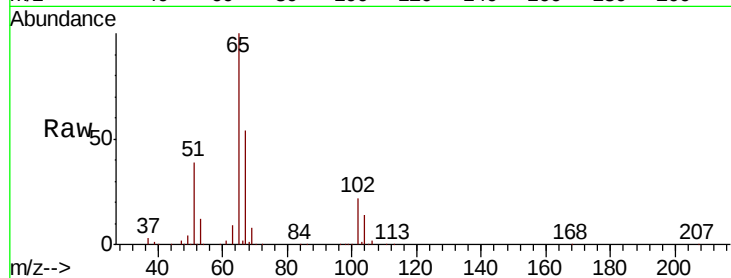




#33
 1,2-Dichloroethane-d4
 Concen: 50.554 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

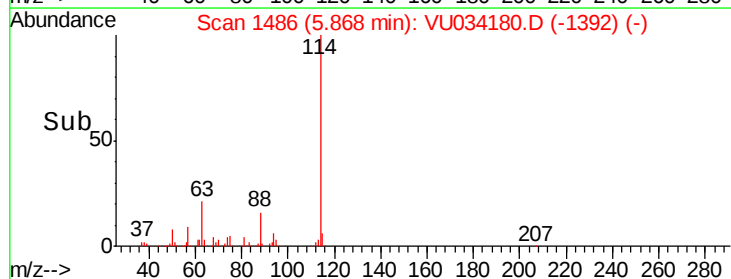
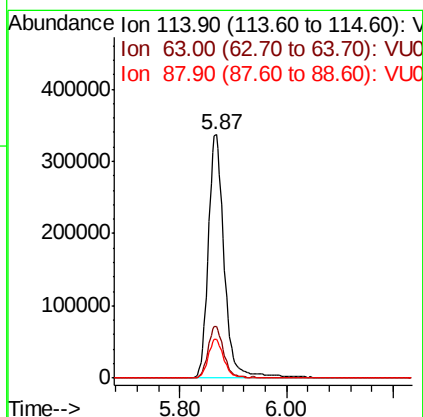
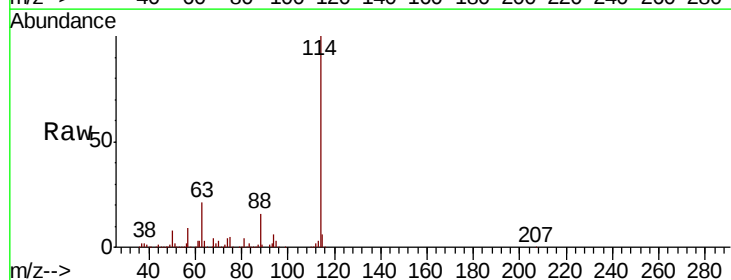
Instrument :
 MSVOA_U
 ClientSampleId :

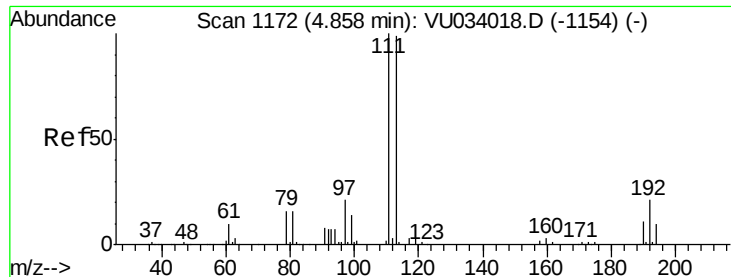
Tot Ion: 65 Resp: 278195
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

Tgt Ion: 114 Resp: 704280
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 42.0
 88 16.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 46.993 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

Instrument :

MSVOA_U

ClientSampleId :

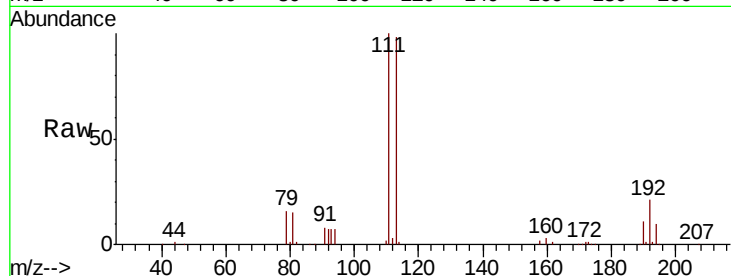
Tot Ion:113 Resp: 229554

Ion Ratio Lower Upper

113 100

111 104.0 81.7 122.5

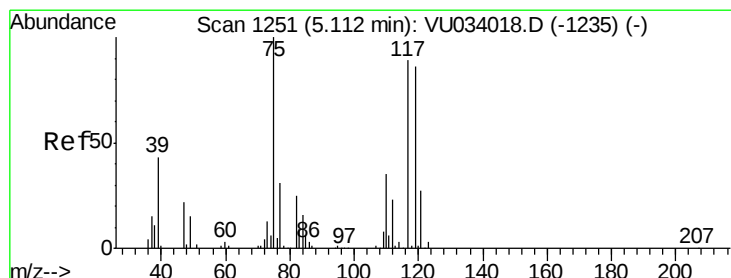
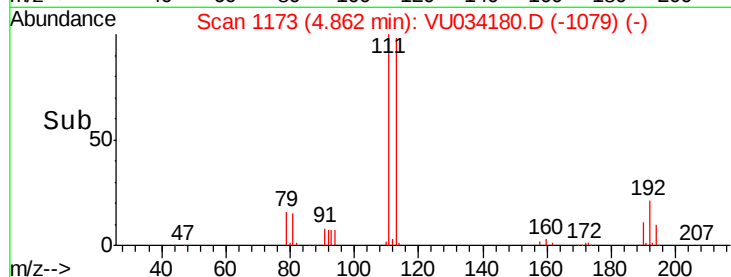
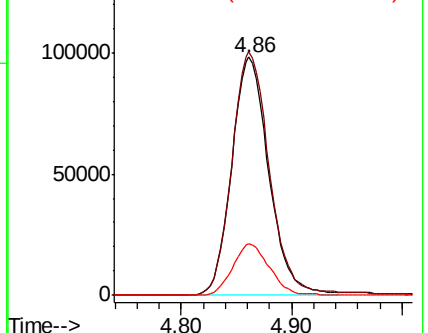
192 21.5 17.1 25.7



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: 4.577 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

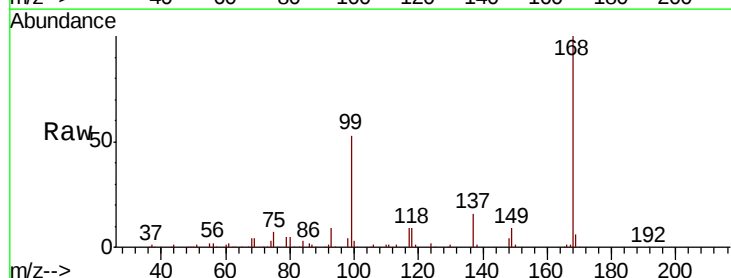
Tgt Ion: 75 Resp: 30493

Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.5#

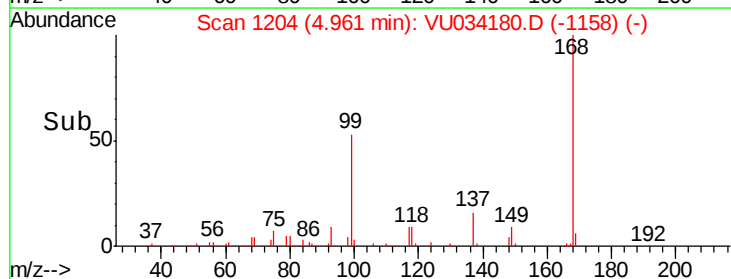
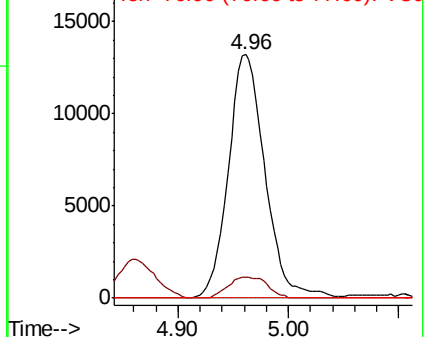
77 0.0 25.0 37.4#

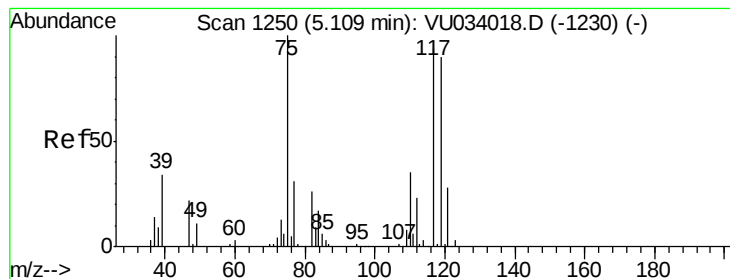


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.065 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

Instrument :

MSVOA_U

ClientSampled :

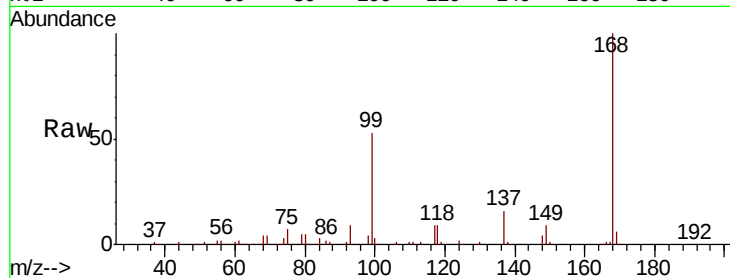
Tot Ion:117 Resp: 38996

Ion Ratio Lower Upper

117 100

119 6.5 77.0 115.4#

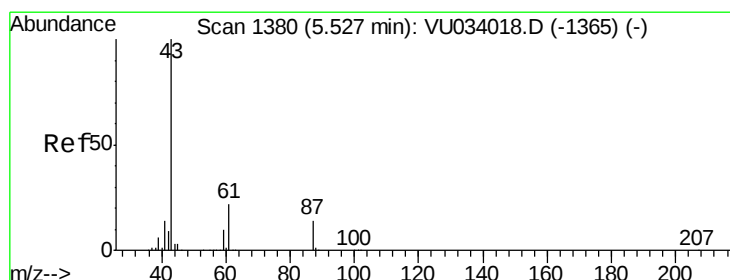
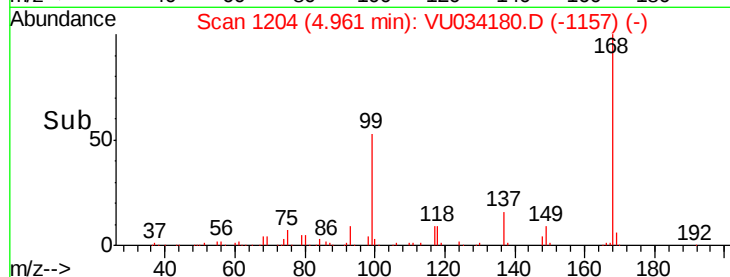
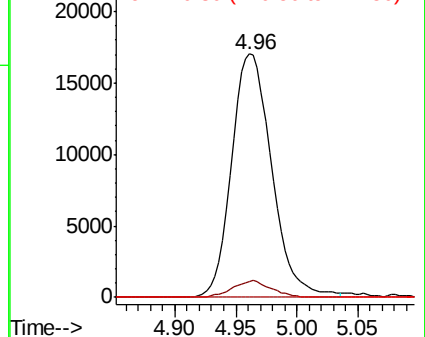
121 0.0 23.9 35.9#



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: 5.359 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

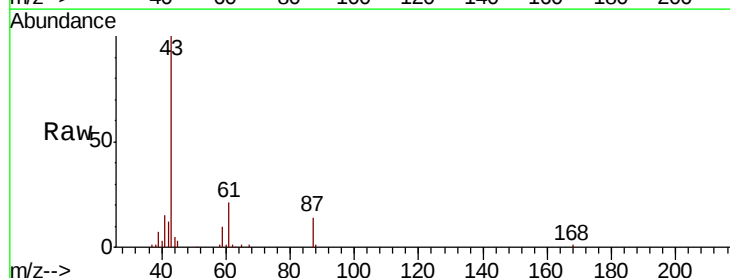
Tgt Ion: 43 Resp: 60823

Ion Ratio Lower Upper

43 100

61 20.5 17.2 25.8

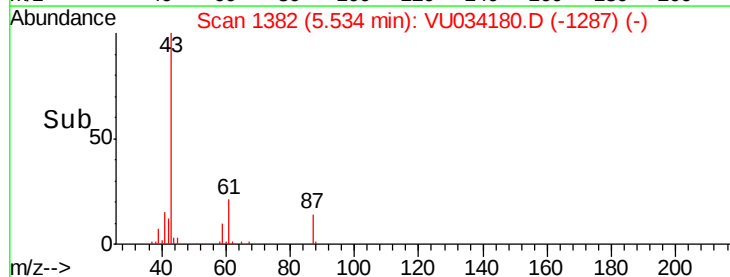
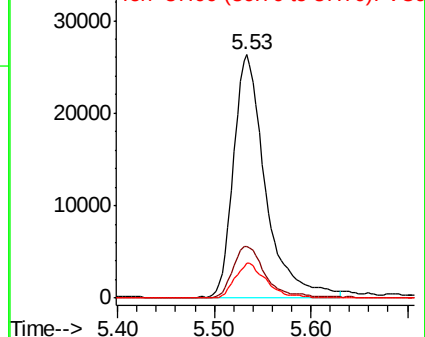
87 13.9 10.8 16.2

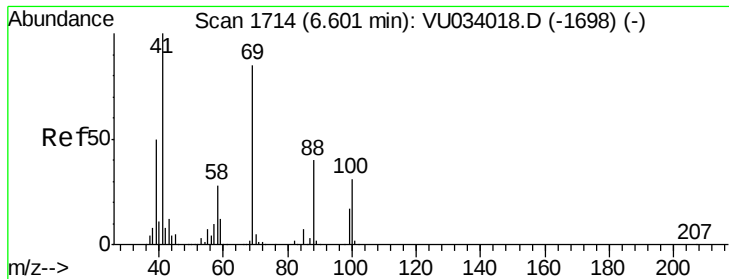


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

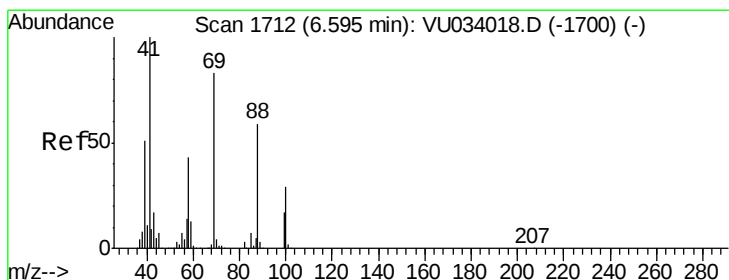
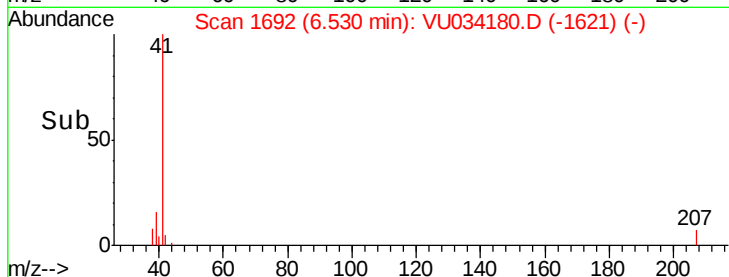
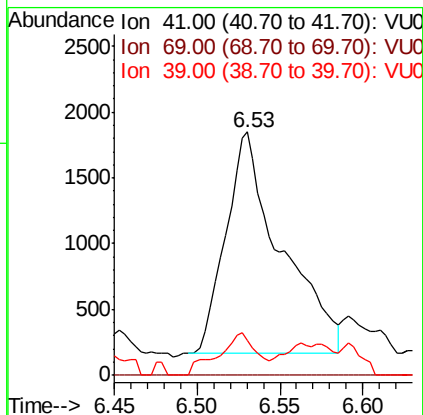
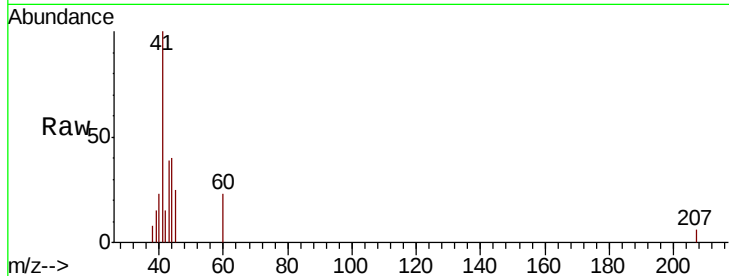




#48
Methvl methacrylate
Concen: 0.714 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

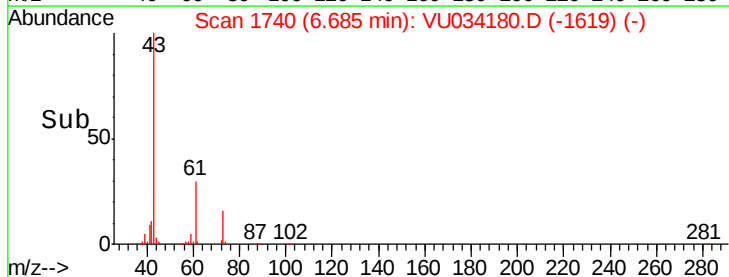
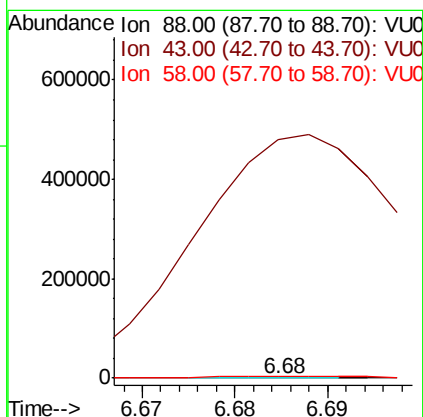
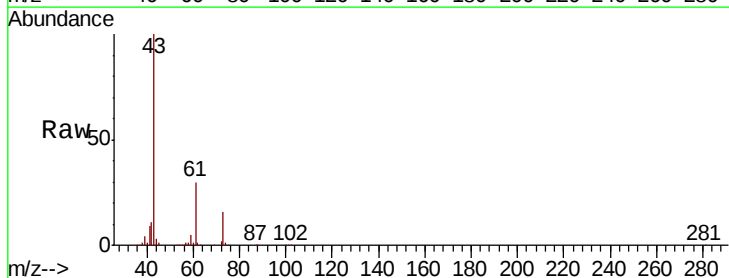
Instrument :
MSVOA_U
ClientSampled :

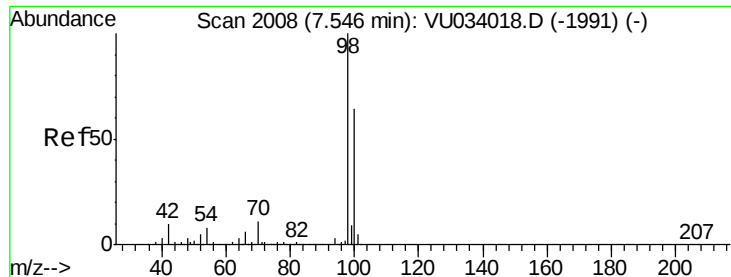
Tot Ion: 41 Resp: 3908
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.299 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Tgt Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 2228048.8 24.8 37.2#
58 13153.7 59.3 88.9#





#50

Toluene-d8

Concen: 49.965 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034180.D

Acq: 01 Sep 2019 19:35

Instrument :

MSVOA_U

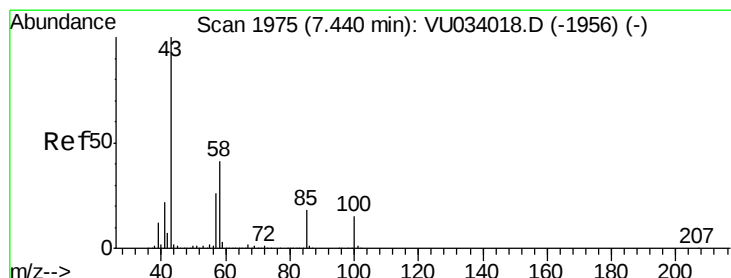
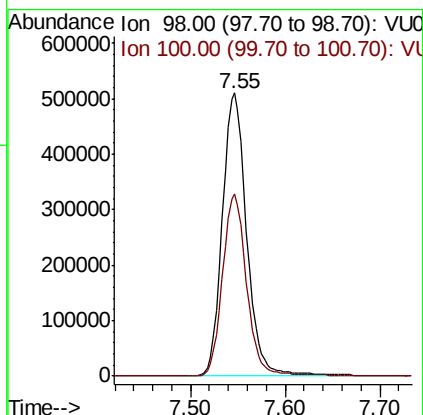
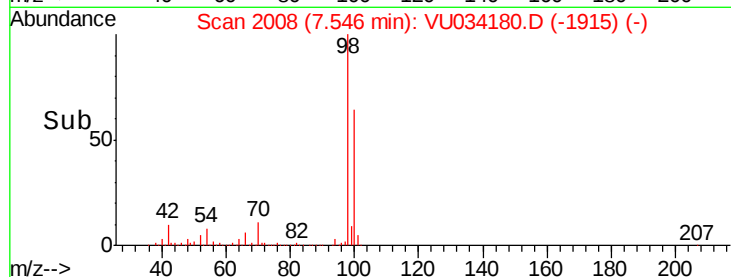
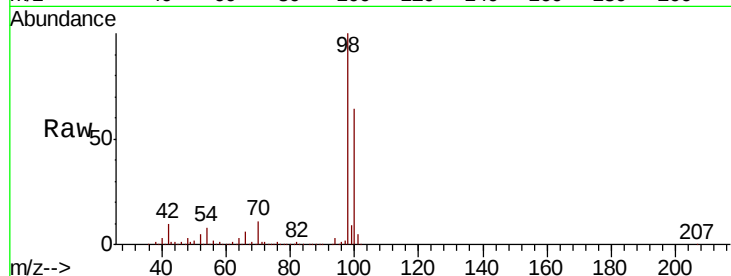
ClientSampleId :

Tot Ion: 98 Resp: 913894

Ion Ratio Lower Upper

98 100

100 64.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.608 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034180.D

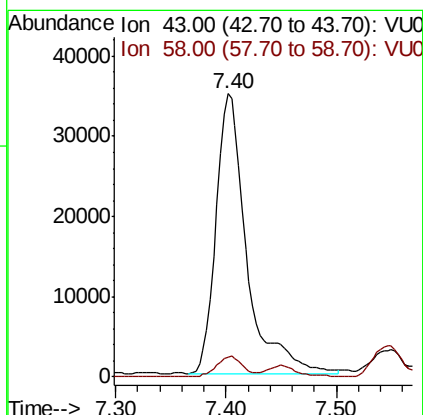
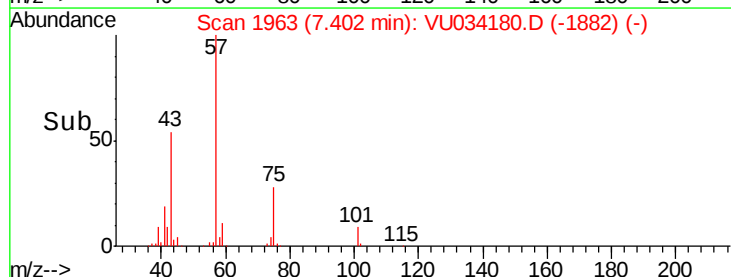
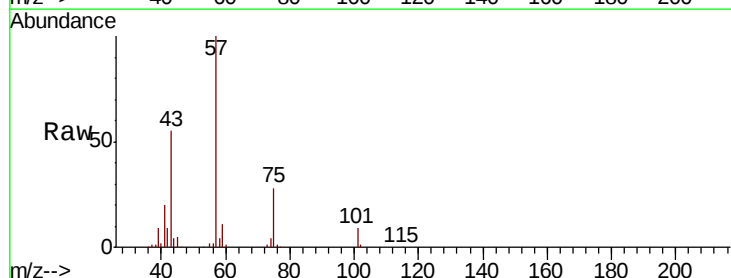
Acq: 01 Sep 2019 19:35

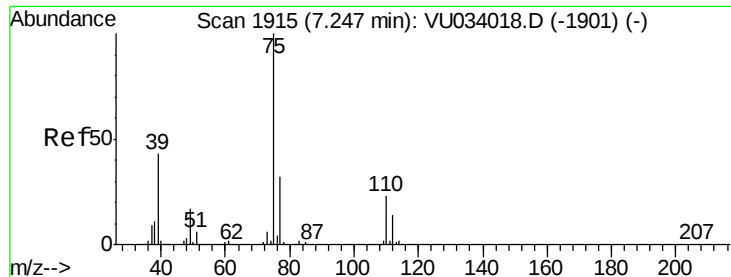
Tgt Ion: 43 Resp: 67464

Ion Ratio Lower Upper

43 100

58 6.3 32.2 48.4#



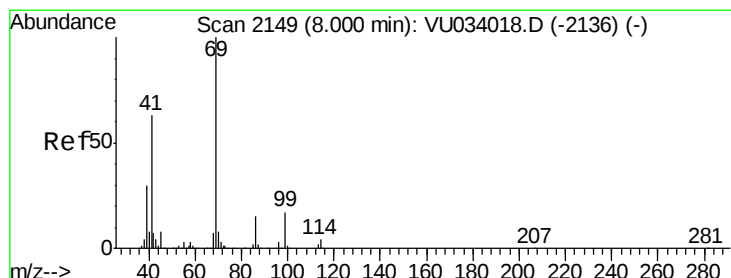
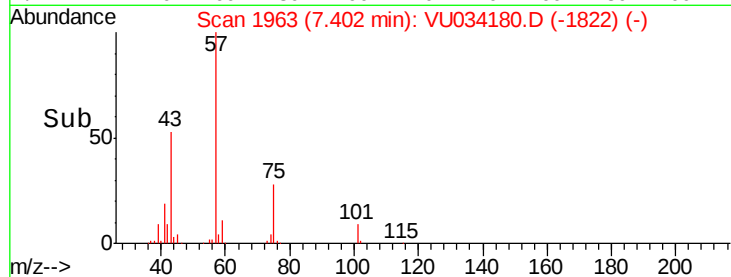
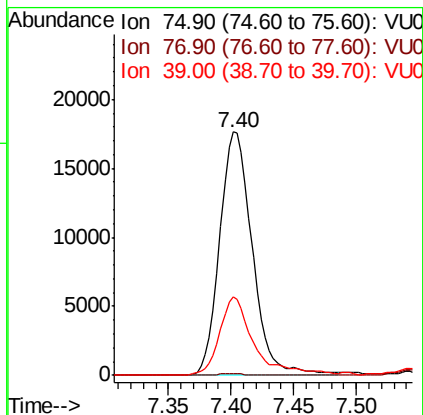
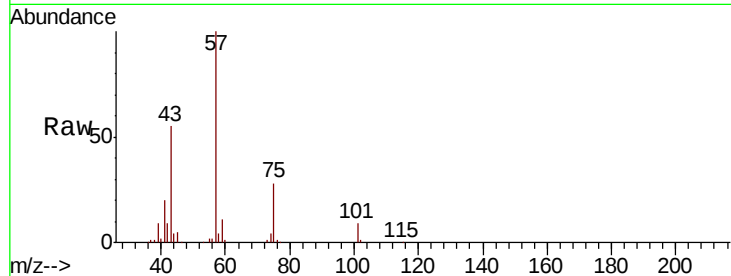


#54

cis-1,3-Dichloropropene
 Concen: 3.779 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

Instrument :
 MSVOA_U
 ClientSampleId :

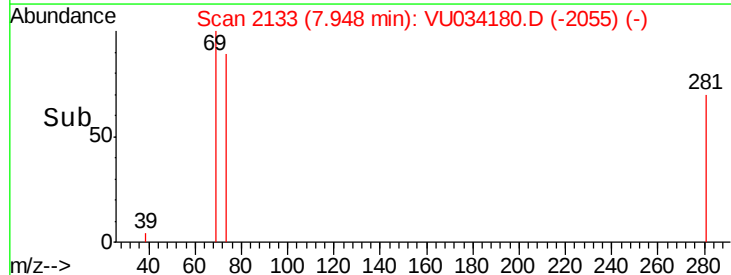
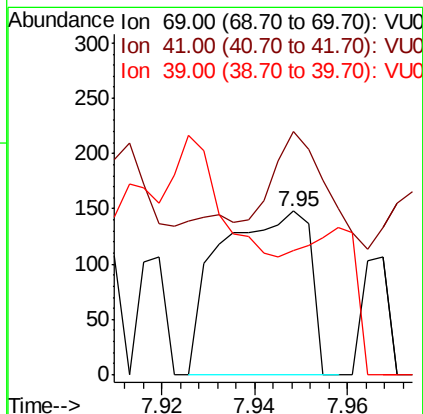
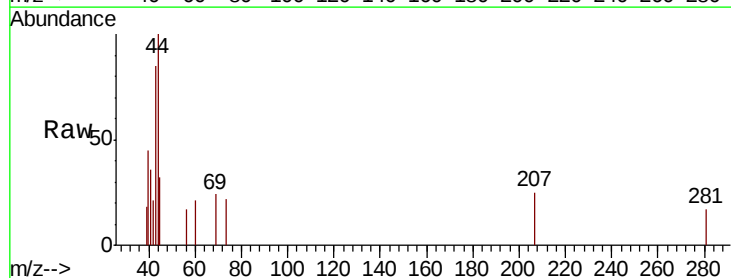
Tot Ion: 75 Resp: 32034
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 32.5 34.6 51.8#

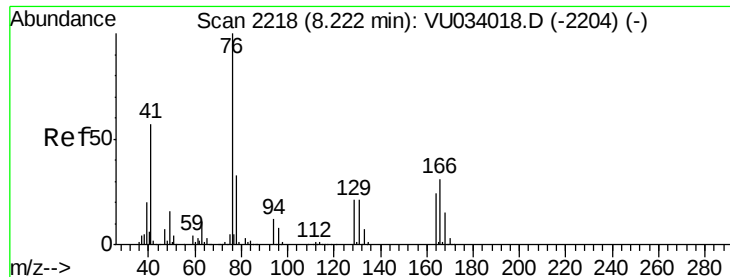


#56

Ethyl methacrylate
 Concen: 0.994 ug/l
 RT: 7.95 min Scan# 2133
 Delta R.T. -0.05 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

Tgt Ion: 69 Resp: 199
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

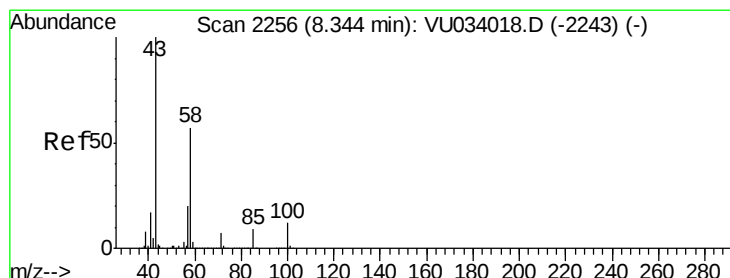
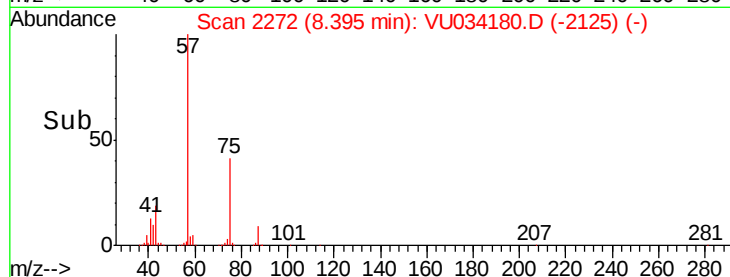
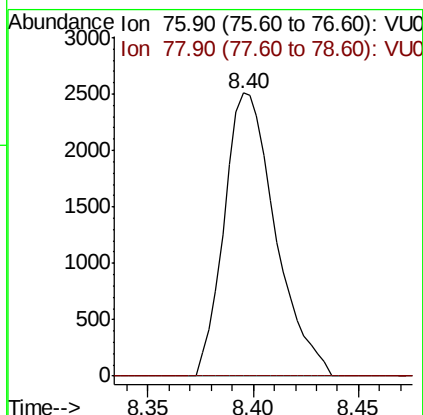
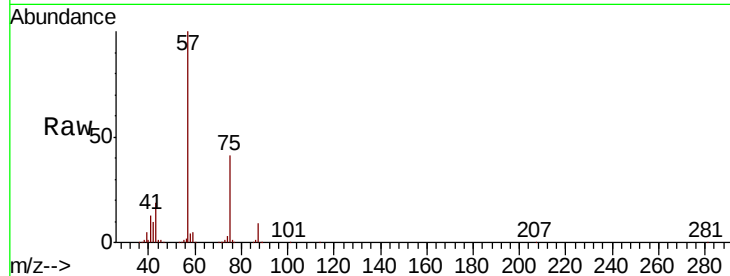




#57
 1,3-Dichloropropane
 Concen: 0.474 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

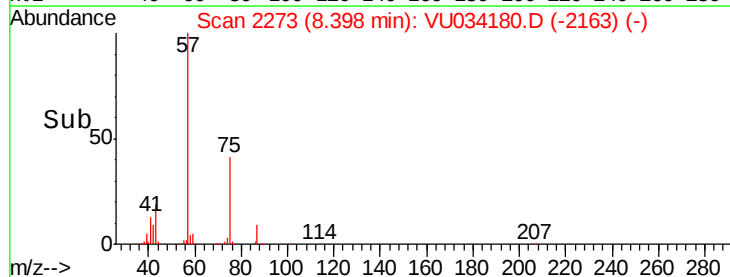
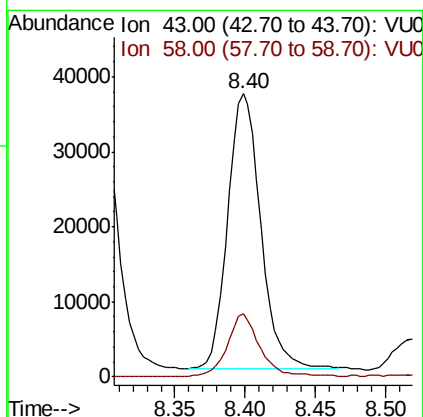
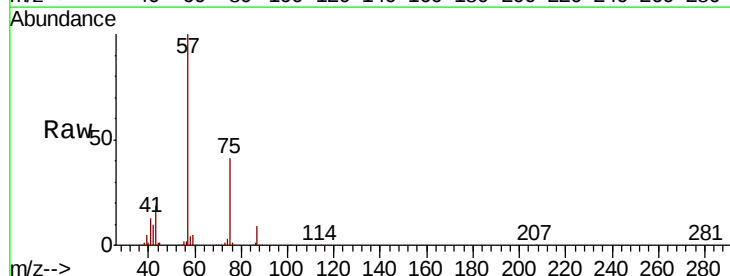
Instrument :
 MSVOA_U
 ClientSampled :

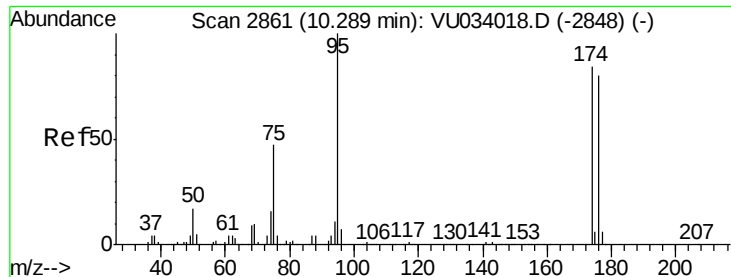
Tot Ion: 76 Resp: 4223
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 10.075 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

Tgt Ion: 43 Resp: 59611
 Ion Ratio Lower Upper
 43 100
 58 23.2 28.4 85.3#

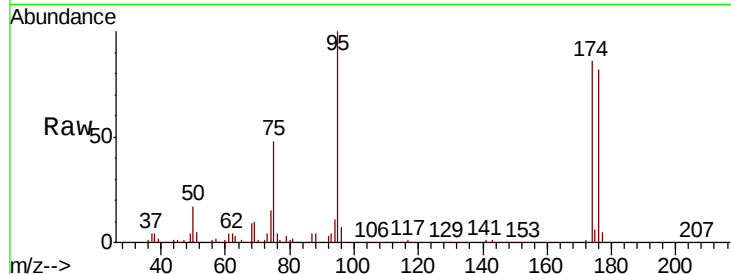




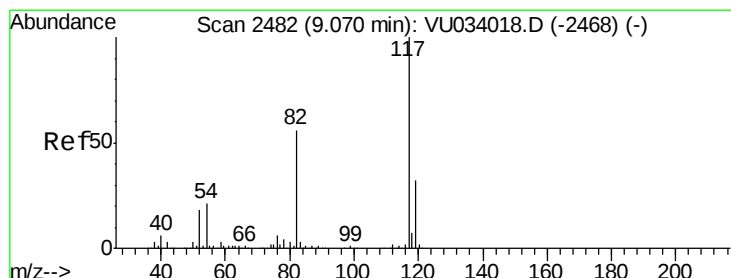
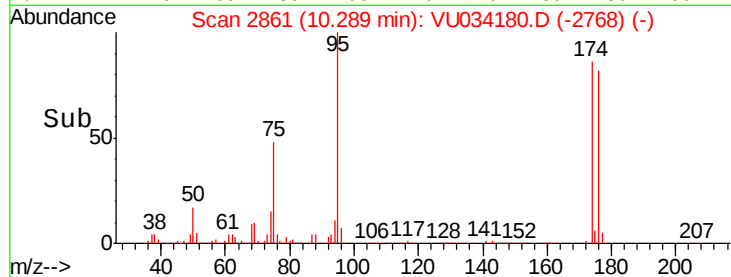
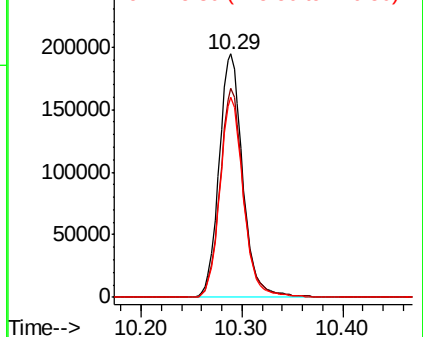
#62
4-Bromofluorobenzene
Concen: 44.855 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	168.8
176	81.8	0.0	161.8

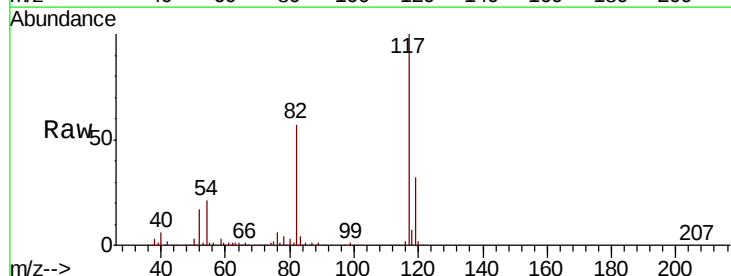


Abundance Ion 94.90 (94.60 to 95.60): VU034180.D (-2848) (-)
Ion 173.80 (173.50 to 174.50): VU034180.D (-2848) (-)
Ion 175.80 (175.50 to 176.50): VU034180.D (-2848) (-)

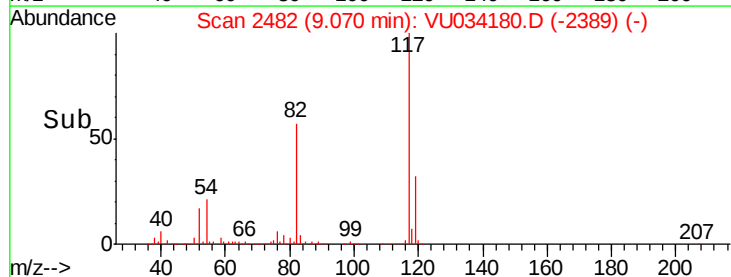
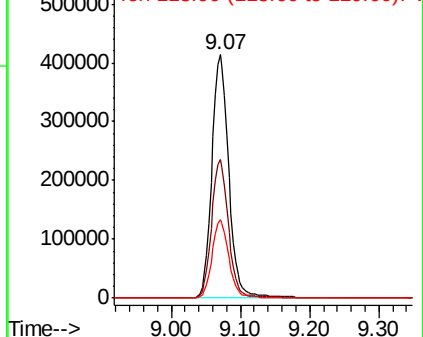


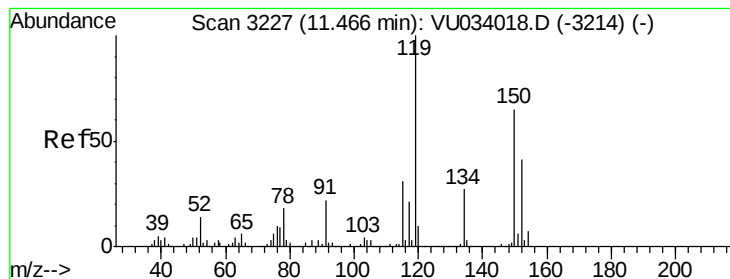
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.1	67.7
119	32.1	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VU034180.D (-2468) (-)
Ion 82.00 (81.70 to 82.70): VU034180.D (-2468) (-)
Ion 118.90 (118.60 to 119.60): VU034180.D (-2468) (-)



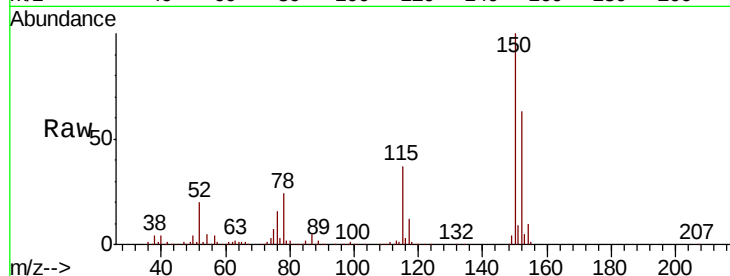


#72

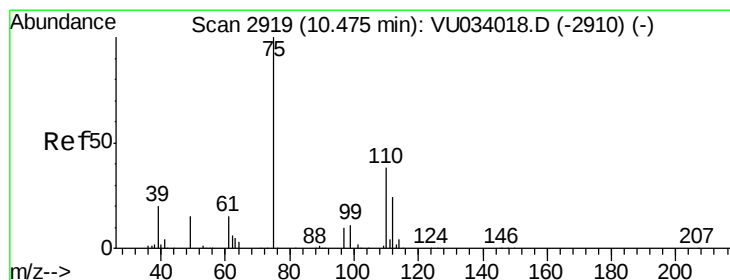
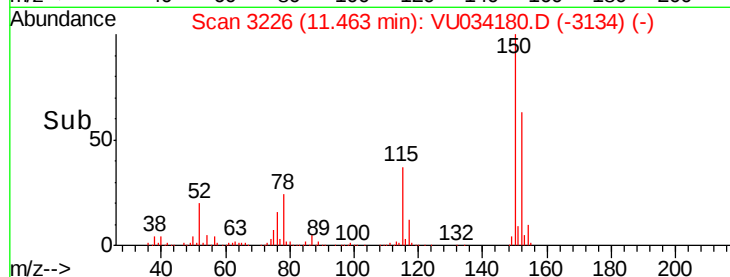
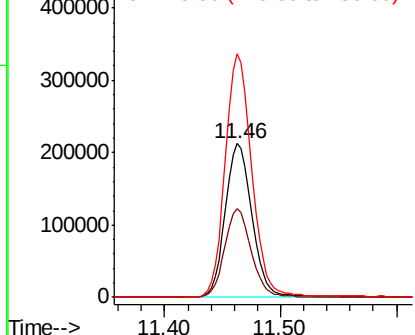
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.2	41.1	123.3
150	157.8	0.0	348.8



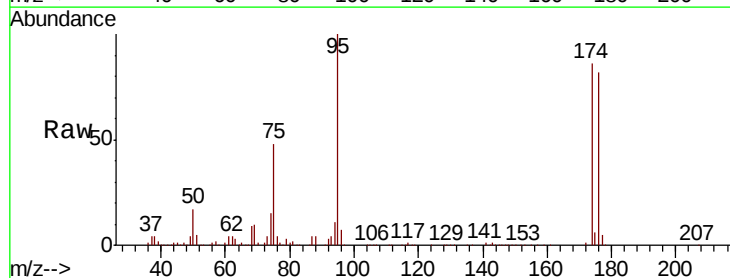
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



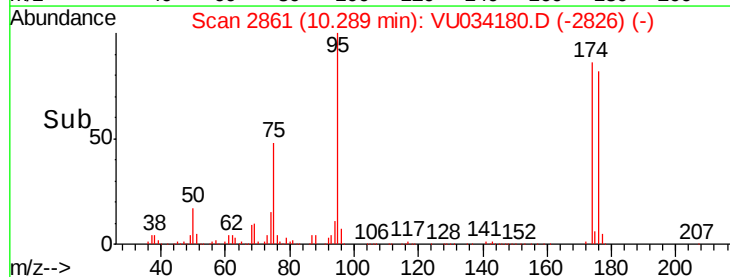
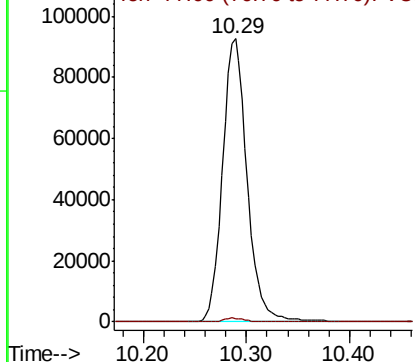
#76

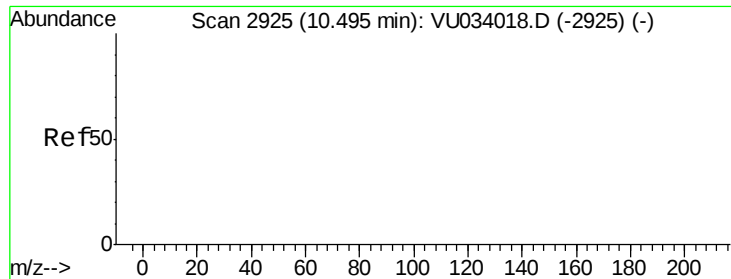
1,2,3-Trichloropropane
Concen: 20.108 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034180.D
Acq: 01 Sep 2019 19:35

Tgt 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: 67.707 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034180.D
 Acq: 01 Sep 2019 19:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 153849
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

