

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083019\
 Data File : VU034056.D
 Acq On : 29 Aug 2019 12:57
 Operator : JC/SP
 Sample : K4596-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

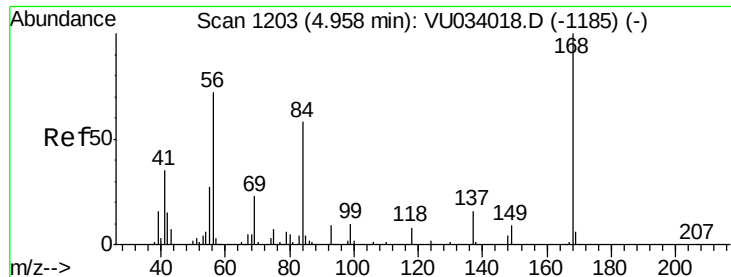
Quant Time: Aug 29 13:47:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	458432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	714047	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	697022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	336502	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	296837	50.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.06%	
35) Dibromofluoromethane	4.86	113	243990	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
50) Toluene-d8	7.55	98	920295	49.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	10.29	95	317187	43.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1356	Below Cal		96
5) Bromomethane	1.57	94	52	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3493	2.579	ug/l #	82
13) Acrolein	2.19	56	159	0.279	ug/l #	57
16) Acetone	2.31	43	33269	11.100	ug/l	99
18) Methyl Acetate	2.43	43	9280	1.198	ug/l #	51
20) Methylene Chloride	2.69	84	20781	3.662	ug/l	96
25) 2-Butanone	4.28	43	2404	0.577	ug/l #	87
29) Tetrahydrofuran	4.64	42	1961	0.763	ug/l #	66
31) Cyclohexane	4.96	56	8353	0.952	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33237	4.921	ug/l #	48
37) Ethyl Acetate	4.28	43	2404	0.318	ug/l #	68
38) Carbon Tetrachloride	4.96	117	41257	6.328	ug/l #	16
51) 4-Methyl-2-Pentanone	7.46	43	1795	0.226	ug/l	94
76) 1,2,3-Trichloropropane	10.29	75	153086	20.185	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153086	67.968	ug/l #	100
95) Naphthalene	13.78	128	177	1.798	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

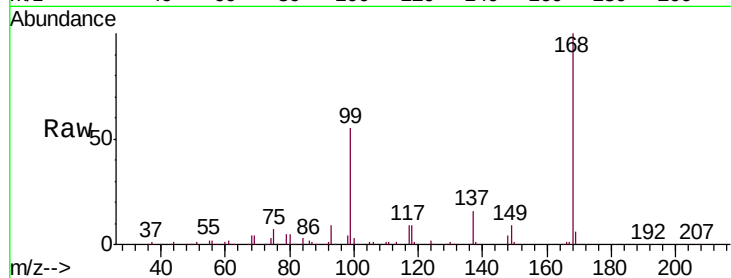
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 458432

Ion Ratio Lower Upper

168 100

99 55.0 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

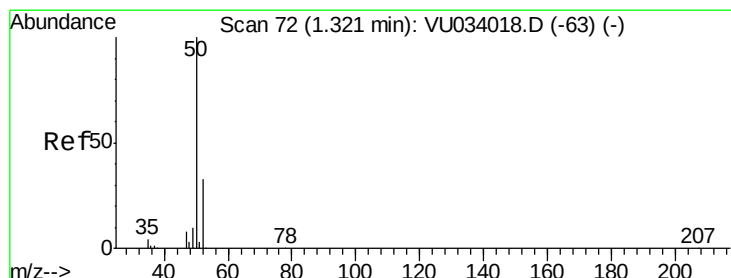
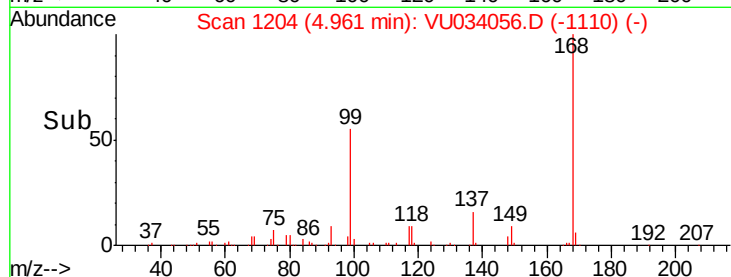
150000

100000

50000

0

Time--> 4.80 4.90 5.00 5.10



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034056.D

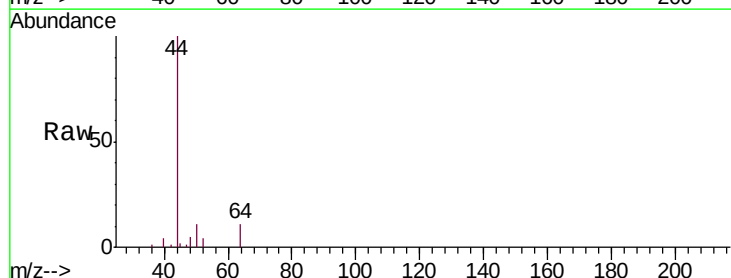
Acq: 29 Aug 2019 12:57

Tgt Ion: 50 Resp: 1356

Ion Ratio Lower Upper

50 100

52 35.0 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

1200

1000

800

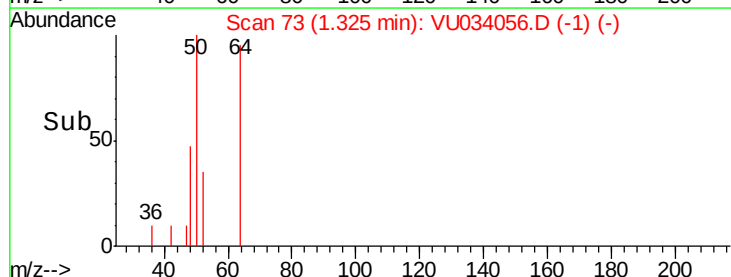
600

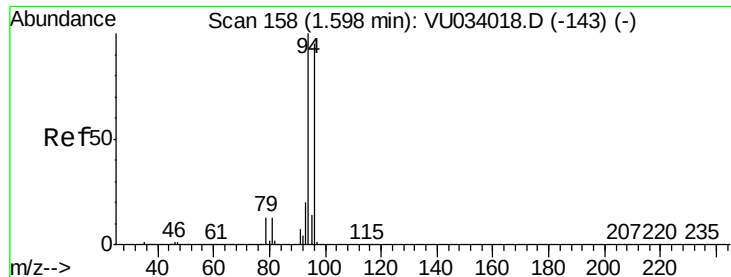
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.57 min Scan# 149

Delta R.T. -0.03 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

Instrument :

MSVOA_U

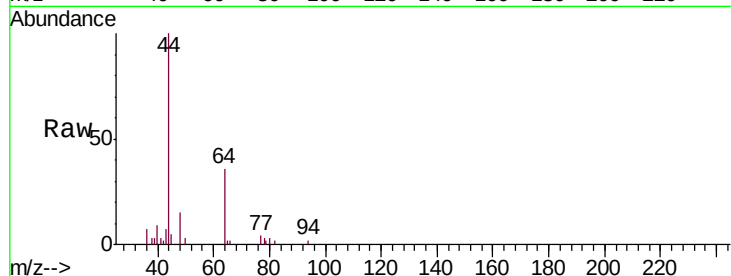
ClientSampleId :

Tot Ion: 94 Resp: 52

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

150

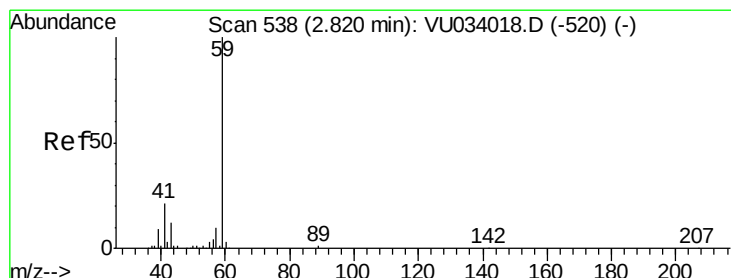
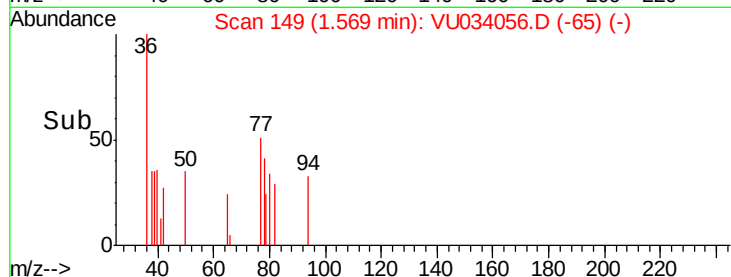
100

50

0

1.56 1.57 1.58

Time-->



#11

Tert butyl alcohol

Concen: 2.579 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU034056.D

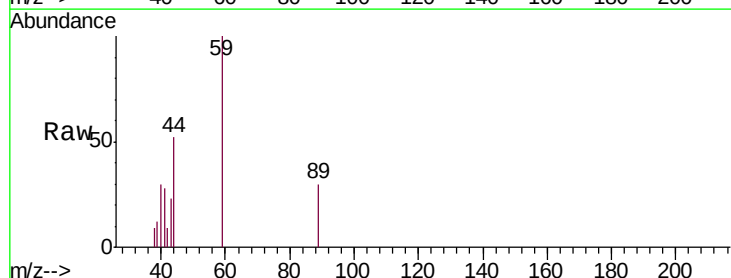
Acq: 29 Aug 2019 12:57

Tgt Ion: 59 Resp: 3493

Ion Ratio Lower Upper

59 100

57 3.1 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

1500

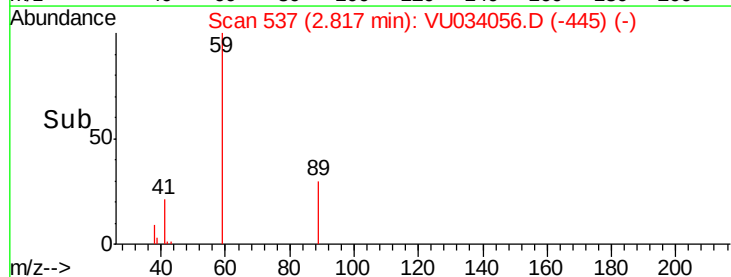
1000

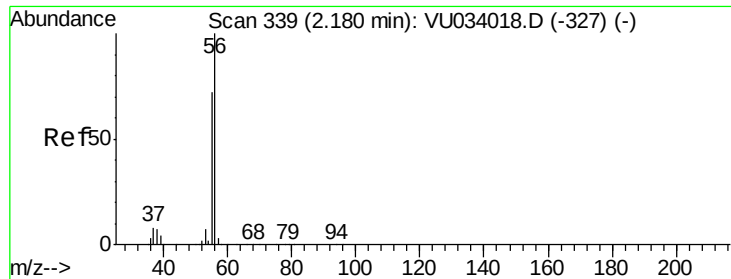
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.279 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

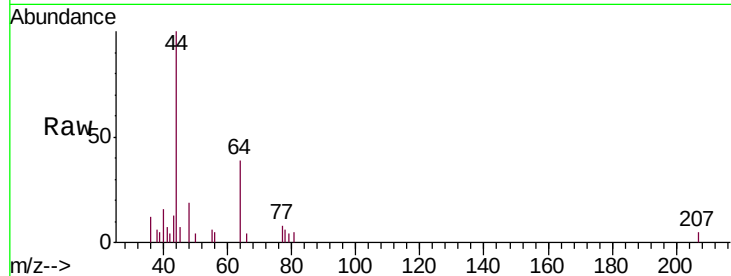
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 159

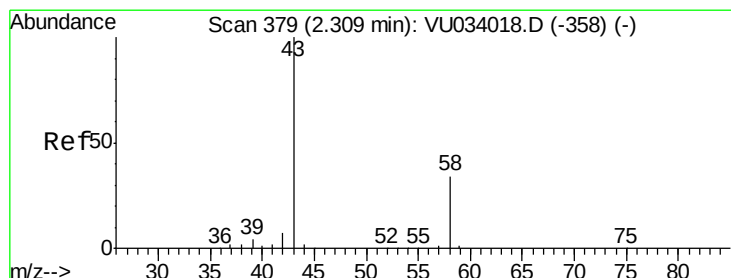
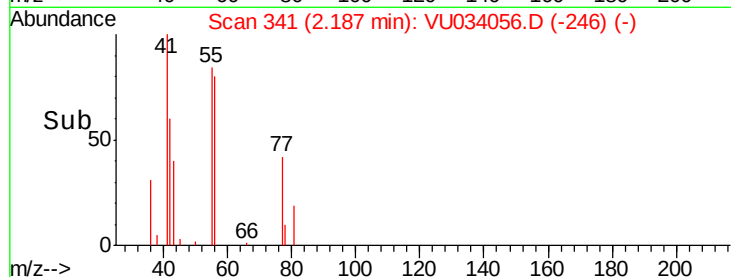
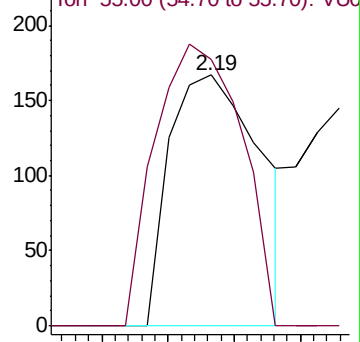
Ion Ratio Lower Upper

56 100

55 106.9 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 11.100 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034056.D

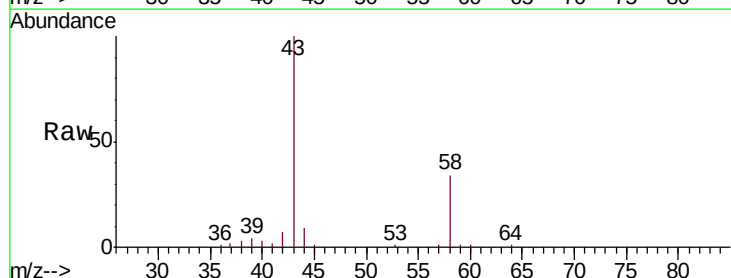
Acq: 29 Aug 2019 12:57

Tgt Ion: 43 Resp: 33269

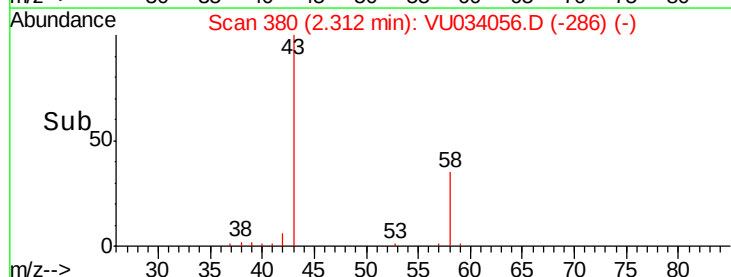
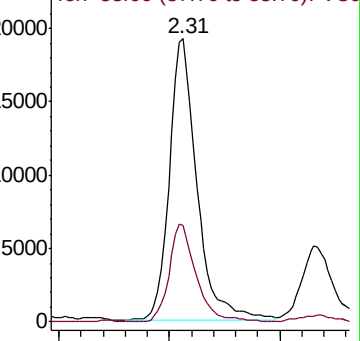
Ion Ratio Lower Upper

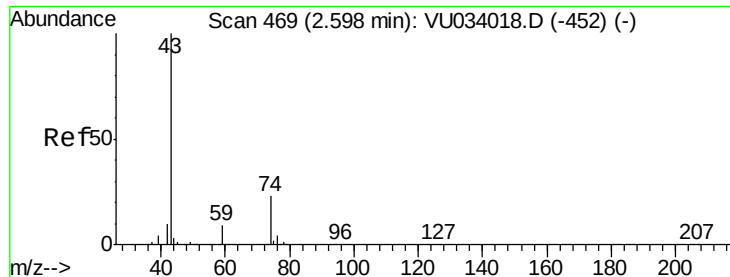
43 100

58 34.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

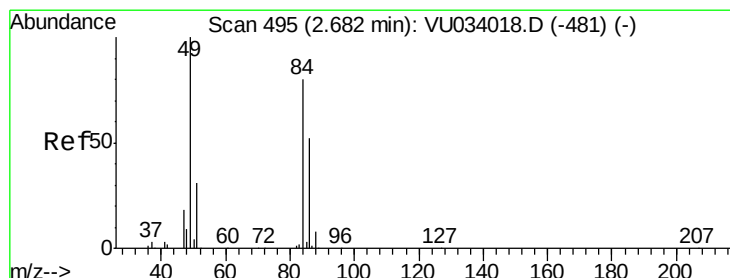
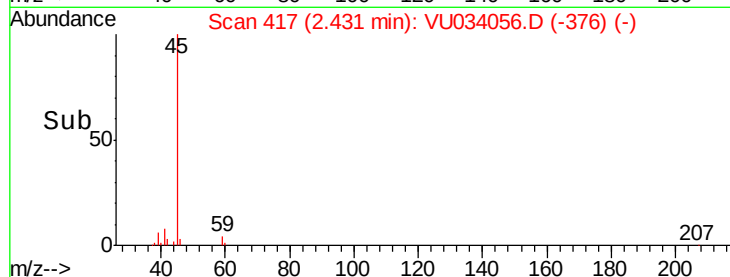
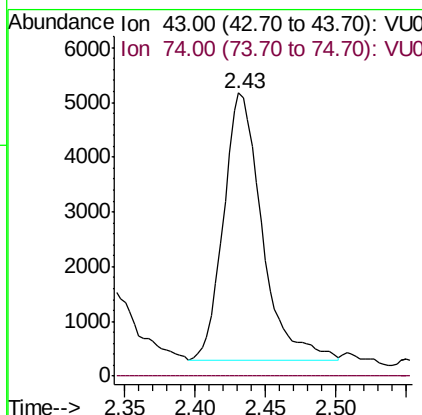
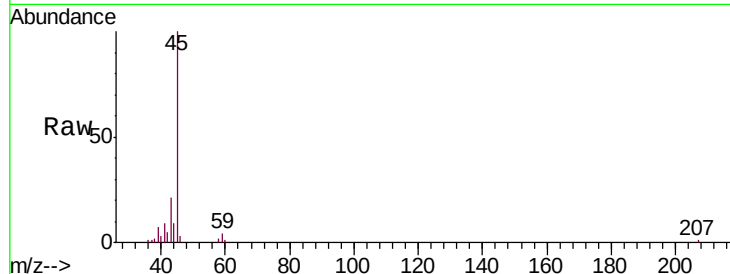




#18
Methvl Acetate
Concen: 1.198 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

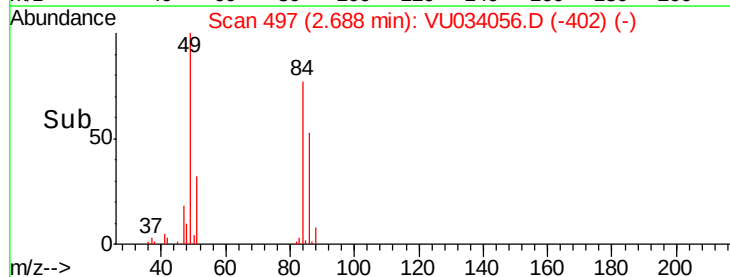
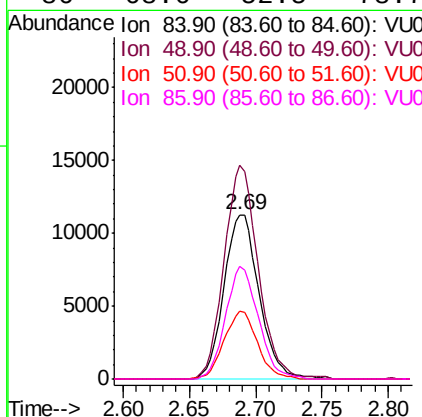
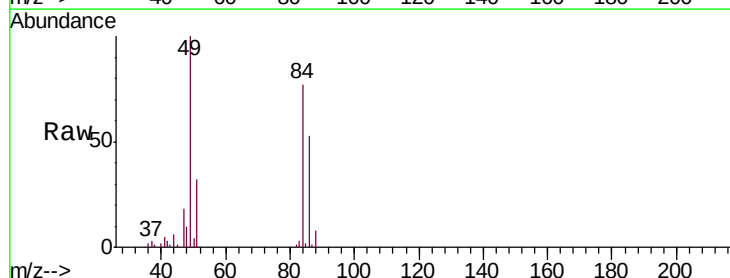
Instrument :
MSVOA_U
ClientSampleId :

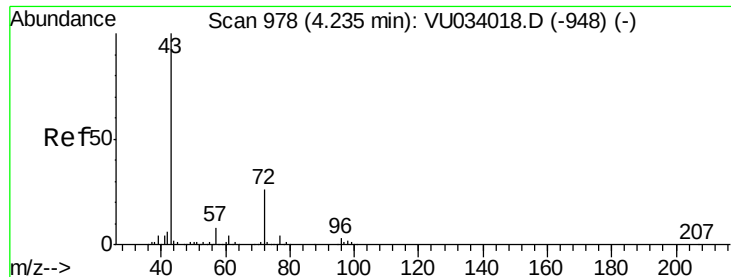
Tot Ion: 43 Resp: 9280
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: 3.662 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Tgt Ion: 84 Resp: 20781
Ion Ratio Lower Upper
84 100
49 129.9 100.2 150.4
51 41.4 30.8 46.2
86 68.6 52.5 78.7





#25

2-Butanone

Concen: 0.577 ug/l

RT: 4.28 min Scan# 993

Delta R.T. 0.05 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

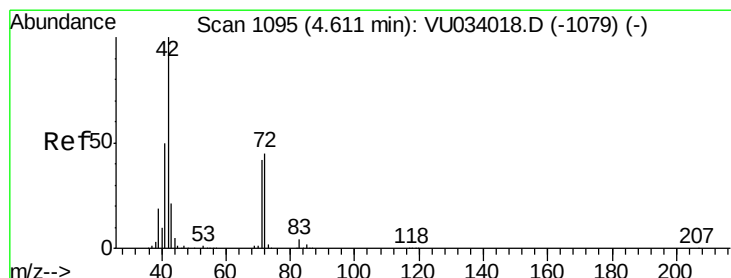
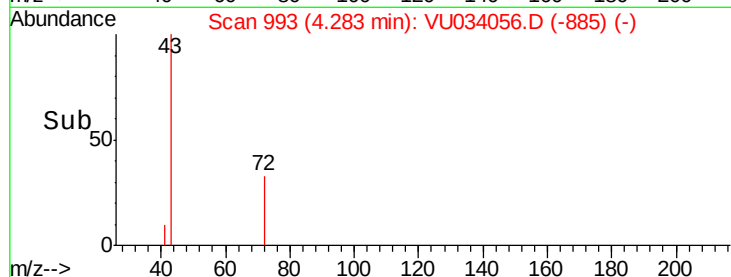
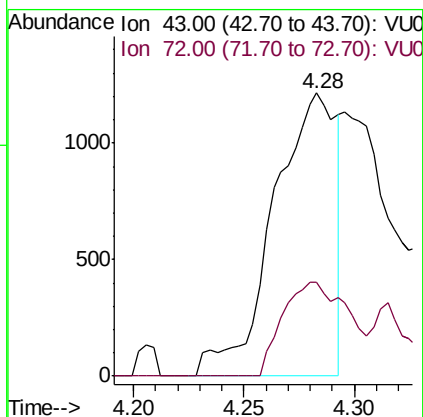
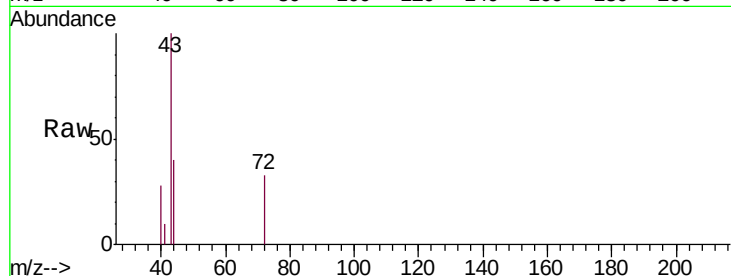
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 2404

Ion Ratio Lower Upper

43 100

72 33.4 21.2 31.8#



#29

Tetrahydrofuran

Concen: 0.763 ug/l

RT: 4.64 min Scan# 1105

Delta R.T. 0.03 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

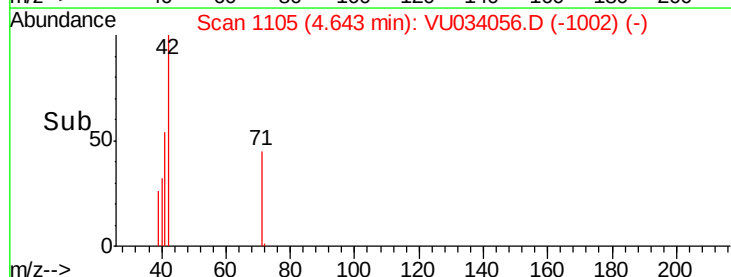
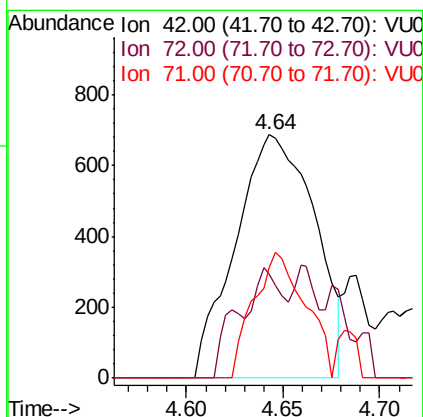
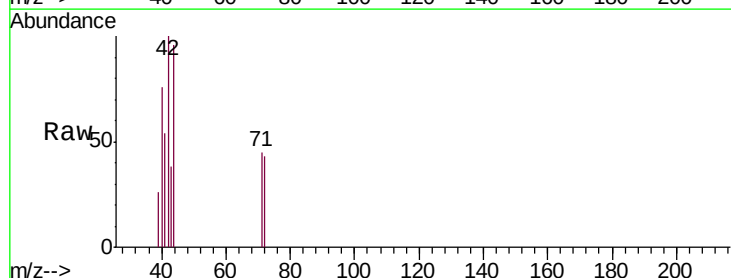
Tgt Ion: 42 Resp: 1961

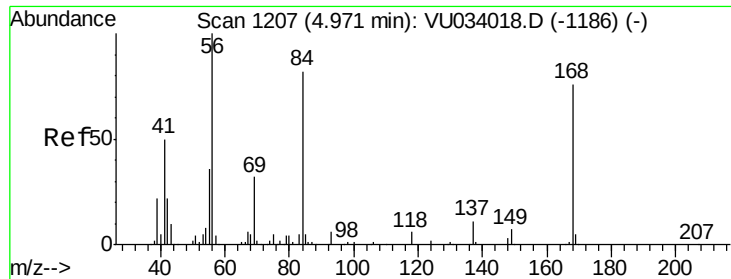
Ion Ratio Lower Upper

42 100

72 10.4 35.8 53.6#

71 33.7 34.0 51.0#

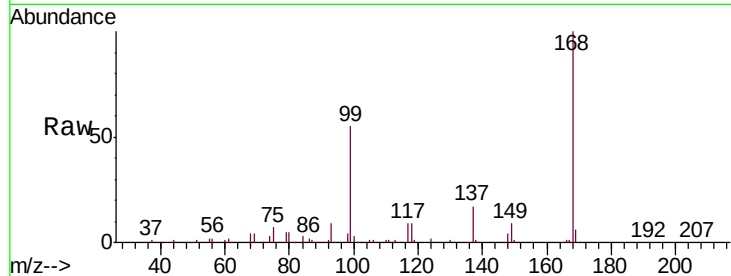




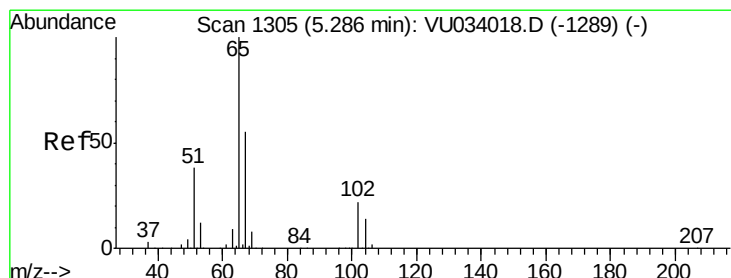
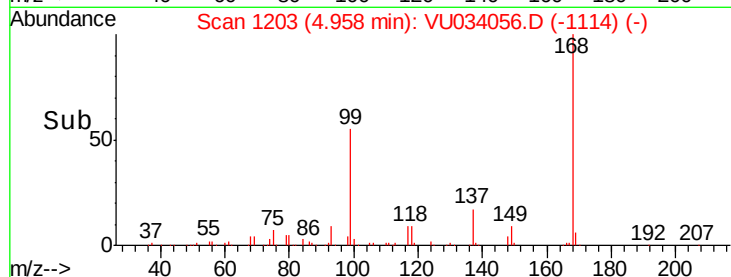
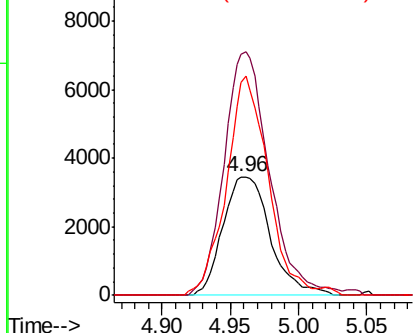
#31
Cyclohexane
Concen: 0.952 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	56	69	84
Resp	8353		
Ratio	100	202.8	176.5
Lower		25.4	65.8
Upper		38.0#	98.8#

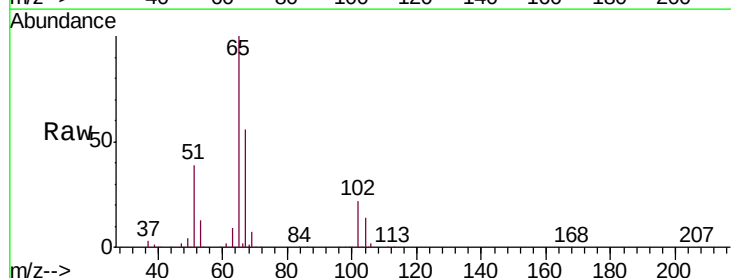


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

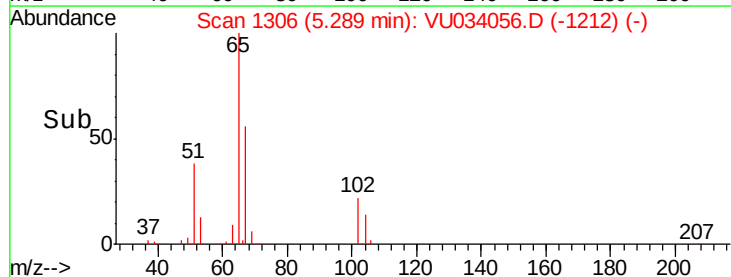
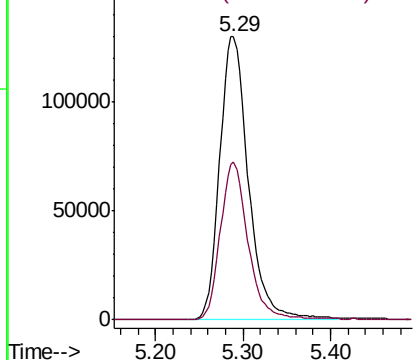


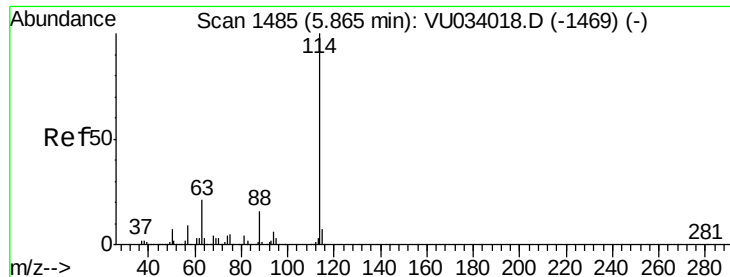
#33
1,2-Dichloroethane-d4
Concen: 50.533 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Tgt Ion	65	67
Resp	296837	
Ratio	100	54.0
Lower		0.0
Upper		110.6



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

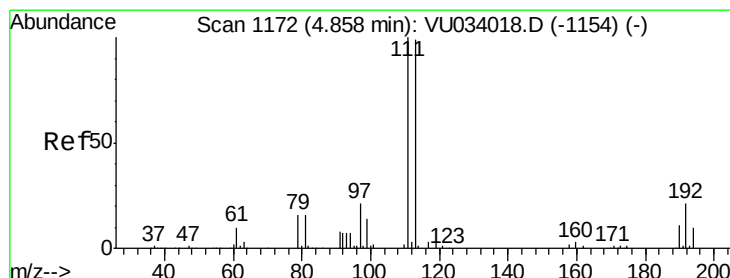
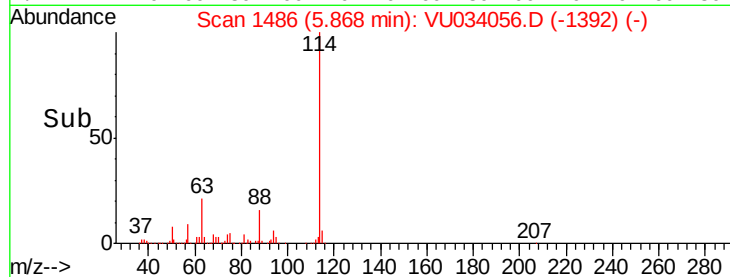
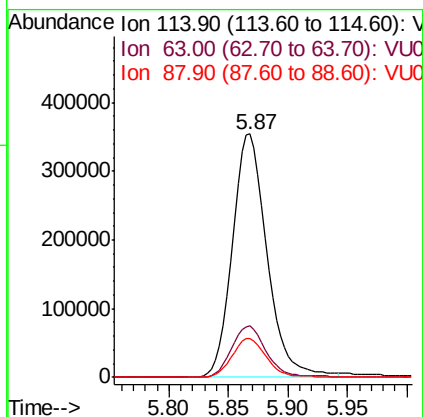
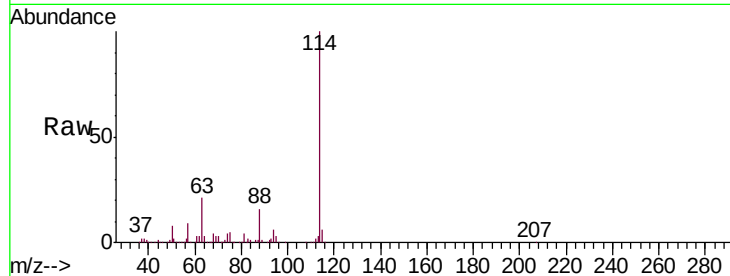




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034056.D
 Acq: 29 Aug 2019 12:57

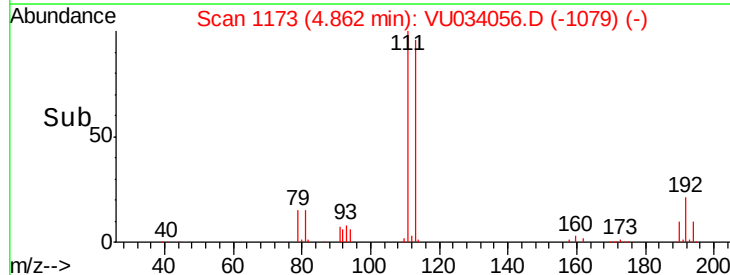
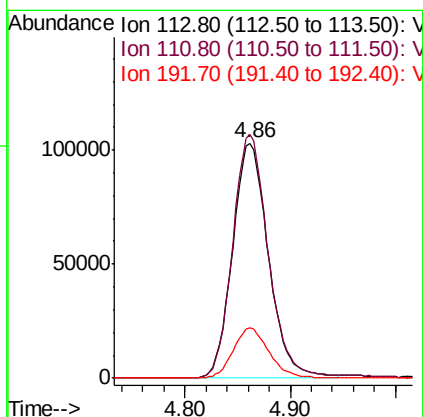
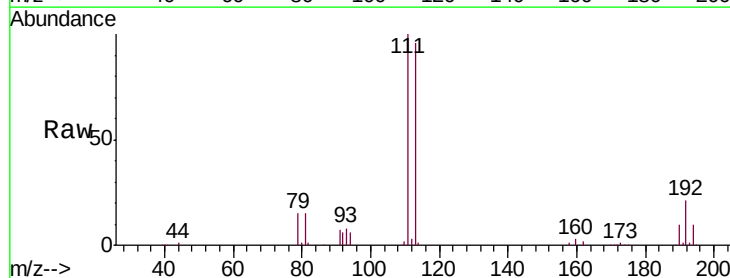
Instrument :
 MSVOA_U
 ClientSampleId :

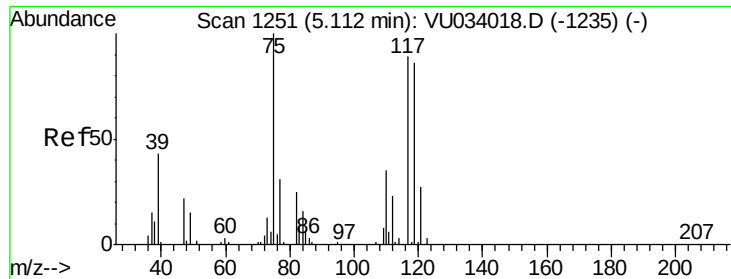
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.0
88	16.2	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 49.265 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034056.D
 Acq: 29 Aug 2019 12:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.7	122.5
192	21.3	17.1	25.7

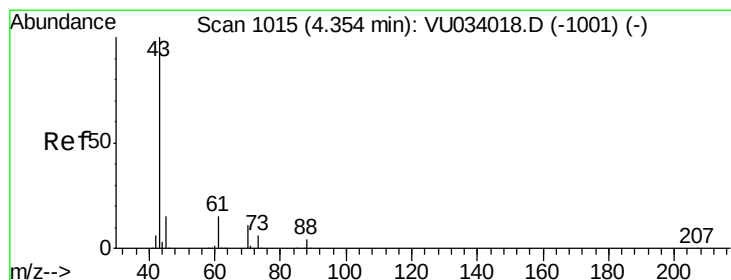
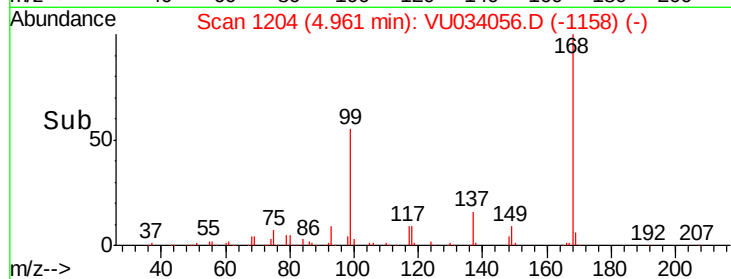
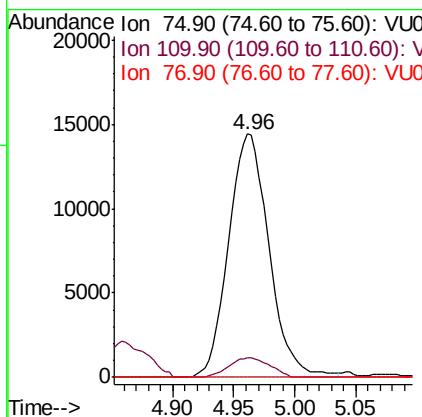
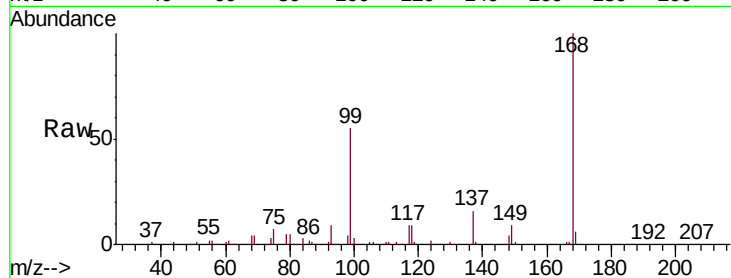




#36
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034056.D
 Acq: 29 Aug 2019 12:57

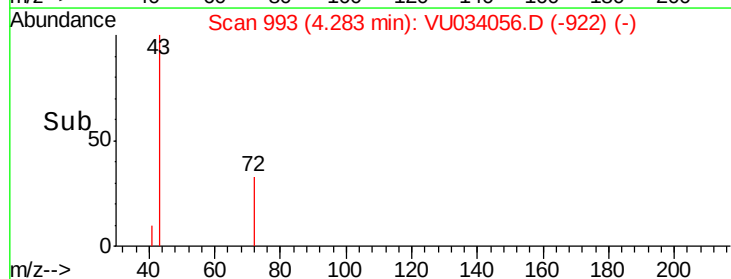
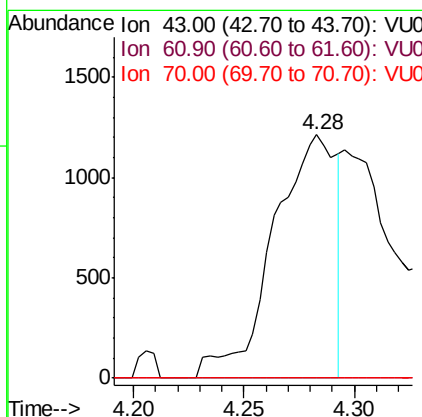
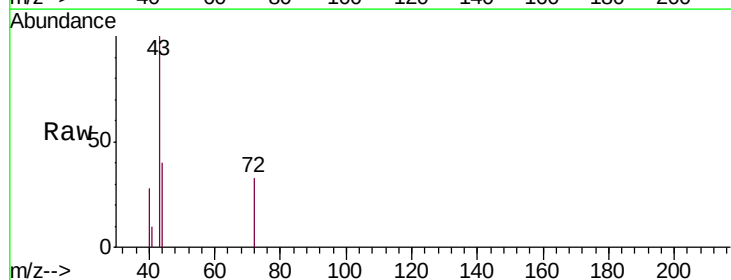
Instrument :
 MSVOA_U
 ClientSampleId :

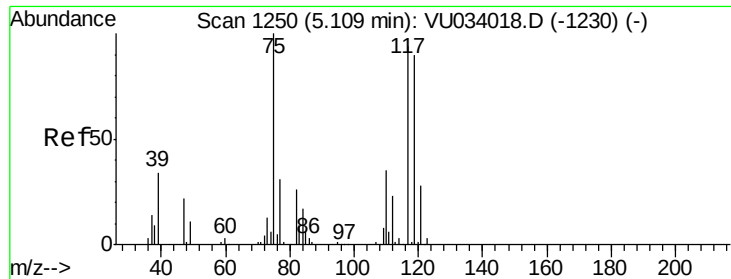
Tot Ion: 75 Resp: 33237
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.8 53.5#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.318 ug/l
 RT: 4.28 min Scan# 993
 Delta R.T. -0.07 min
 Lab File: VU034056.D
 Acq: 29 Aug 2019 12:57

Tgt Ion: 43 Resp: 2404
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.6 12.8#

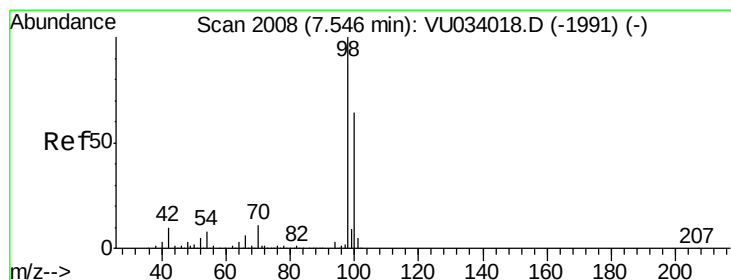
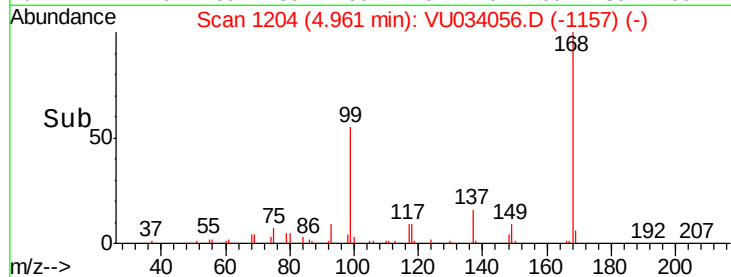
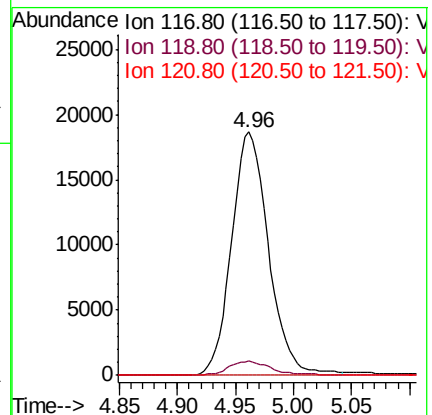
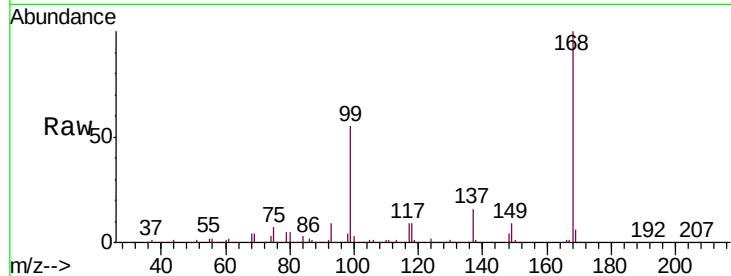




#38
Carbon Tetrachloride
Concen: 6.328 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

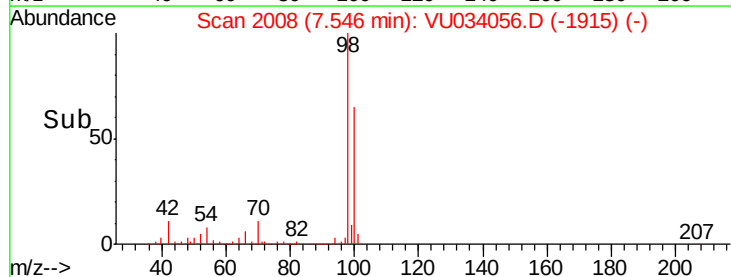
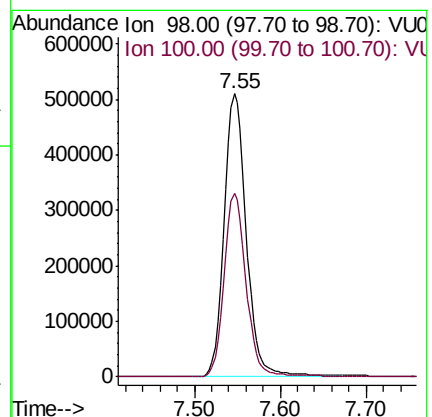
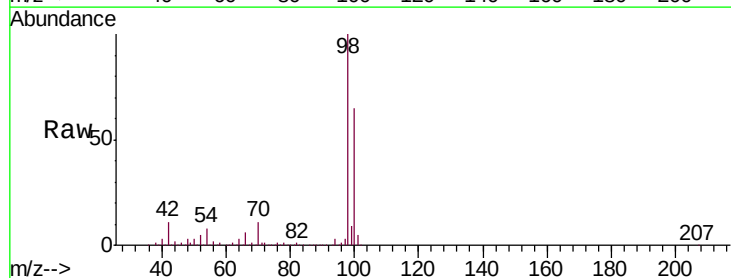
Instrument :
MSVOA_U
ClientSampleId :

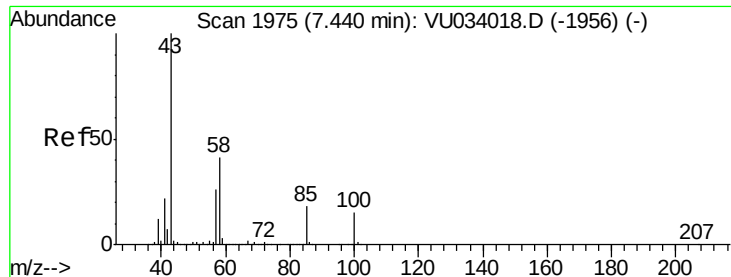
Tot Ion:117 Resp: 41257
Ion Ratio Lower Upper
117 100
119 5.7 77.0 115.4#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 49.627 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Tgt Ion: 98 Resp: 920295
Ion Ratio Lower Upper
98 100
100 64.6 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.226 ug/l

RT: 7.46 min Scan# 1981

Delta R.T. 0.02 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

Instrument :

MSVOA_U

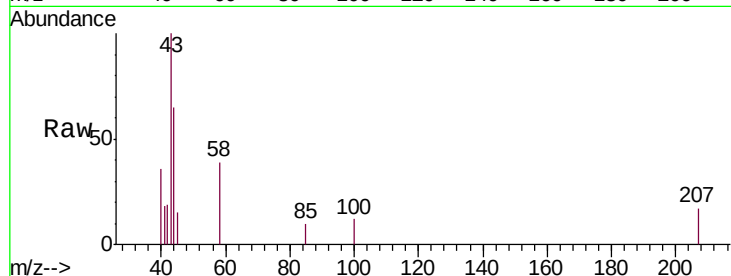
ClientSampleId :

Tot Ion: 43 Resp: 1795

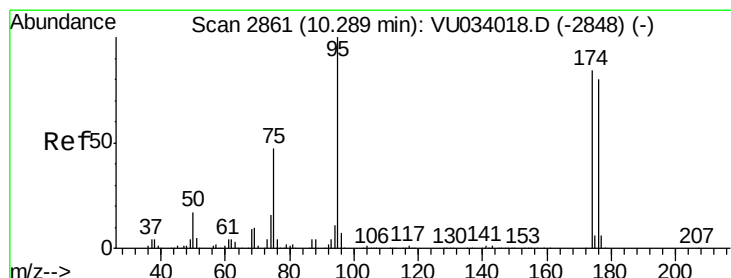
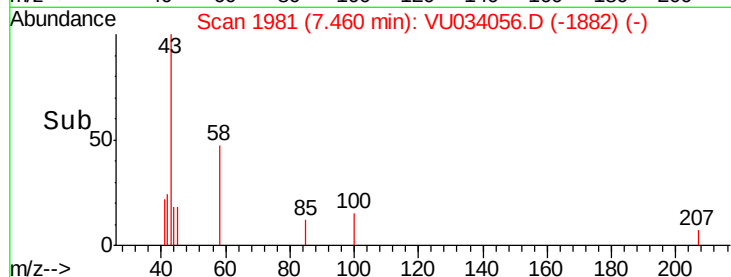
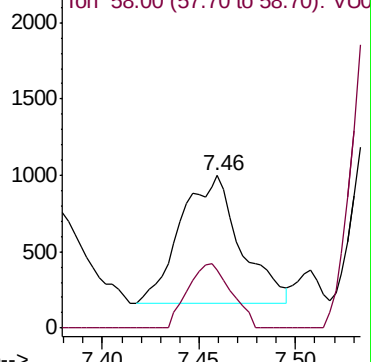
Ion Ratio Lower Upper

43 100

58 36.7 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)



#62

4-Bromofluorobenzene

Concen: 43.971 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

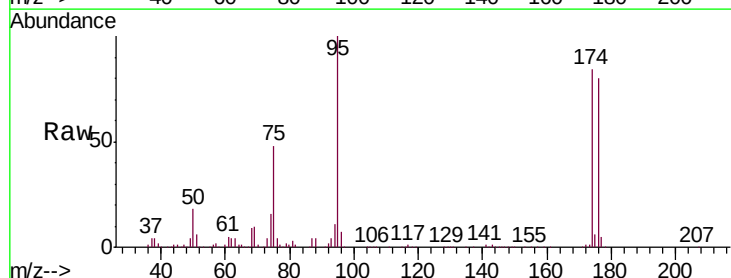
Tgt Ion: 95 Resp: 317187

Ion Ratio Lower Upper

95 100

174 85.1 0.0 168.8

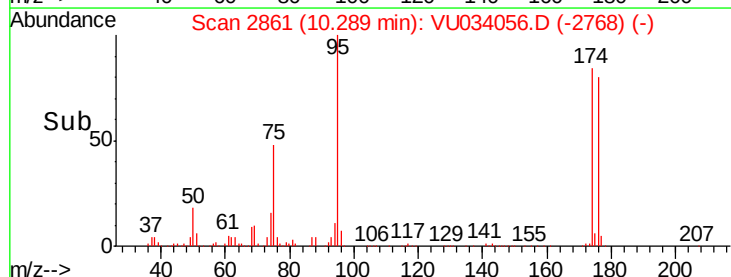
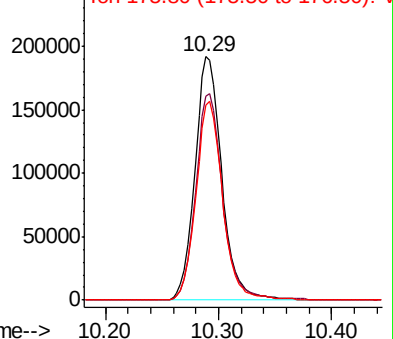
176 81.8 0.0 161.8

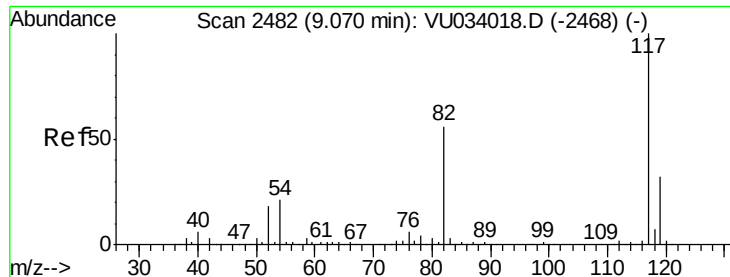


Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)

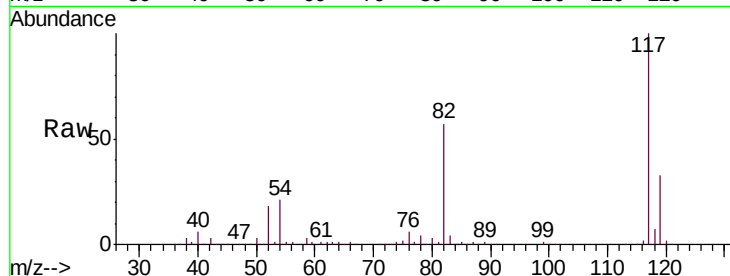




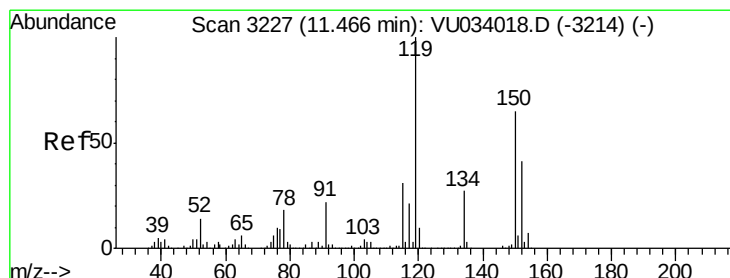
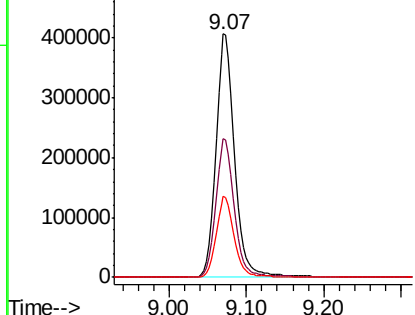
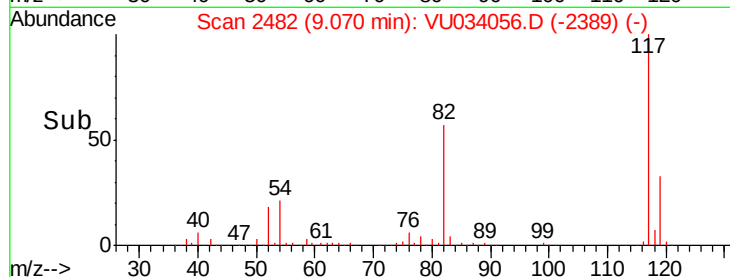
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 697022
Ion Ratio Lower Upper
117 100
82 57.0 45.1 67.7
119 33.1 25.4 38.0

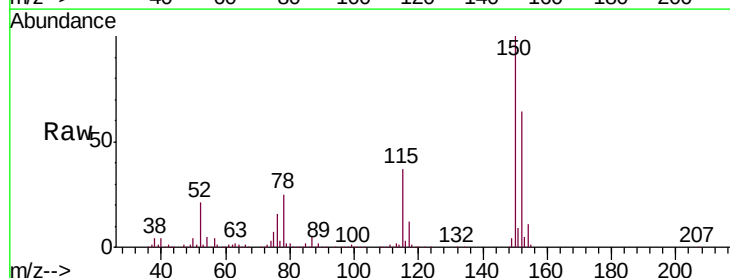


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

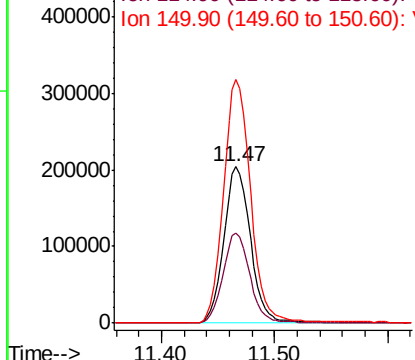
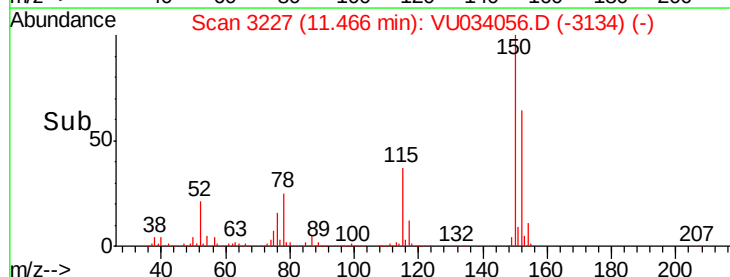


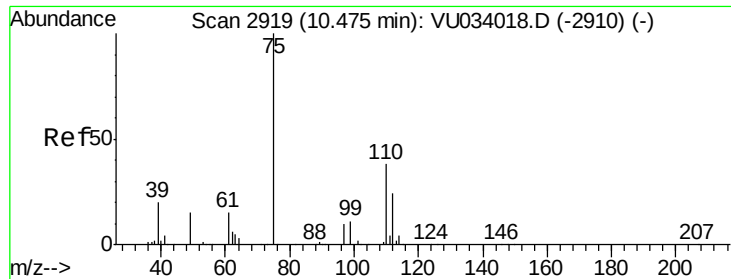
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034056.D
Acq: 29 Aug 2019 12:57

Tgt Ion:152 Resp: 336502
Ion Ratio Lower Upper
152 100
115 57.5 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: 20.185 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

Instrument :

MSVOA_U

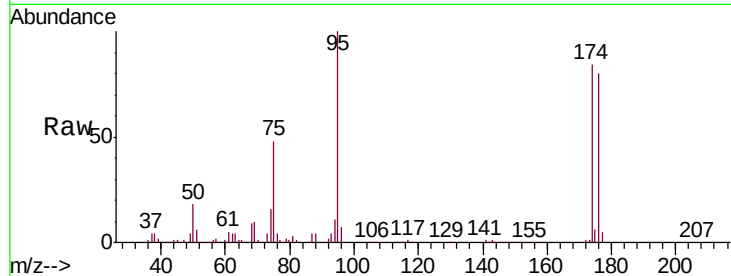
ClientSampleId :

Tot Ion: 75 Resp: 153086

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.29

80000

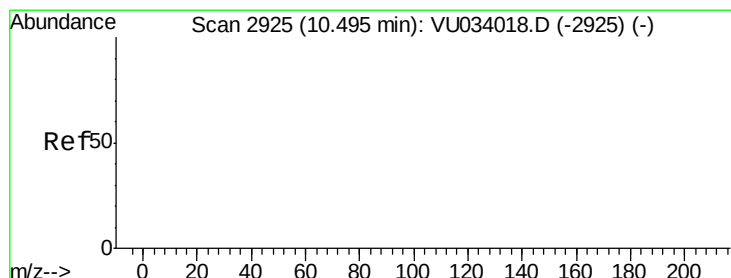
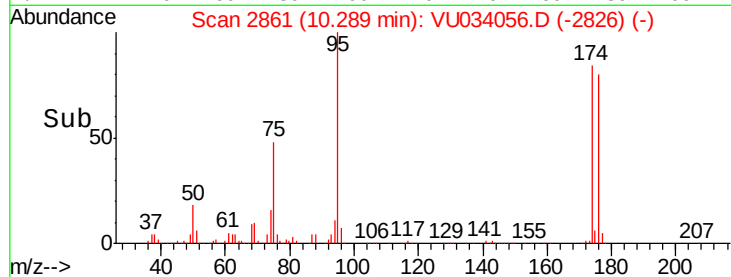
60000

40000

20000

0

Time--> 10.20 10.30 10.40



#81

trans-1,4-Dichloro-2-butene

Concen: 67.968 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034056.D

Acq: 29 Aug 2019 12:57

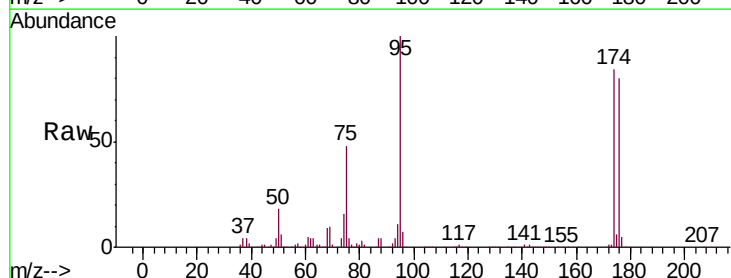
Tgt Ion: 75 Resp: 153086

Ion Ratio Lower Upper

75 100

53 0.2 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

10.29

120000

100000

80000

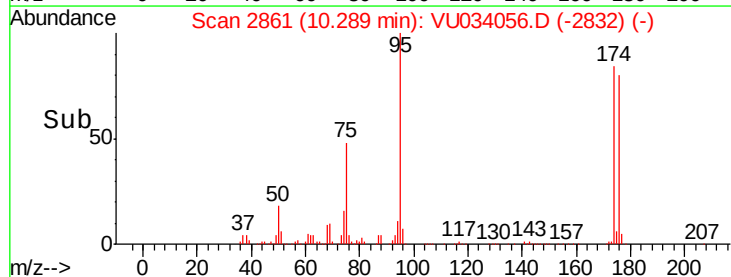
60000

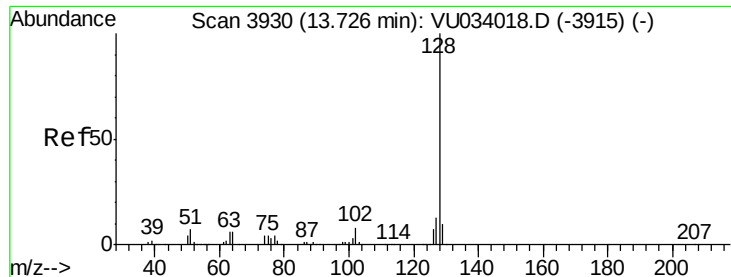
40000

20000

0

Time--> 10.20 10.30 10.40

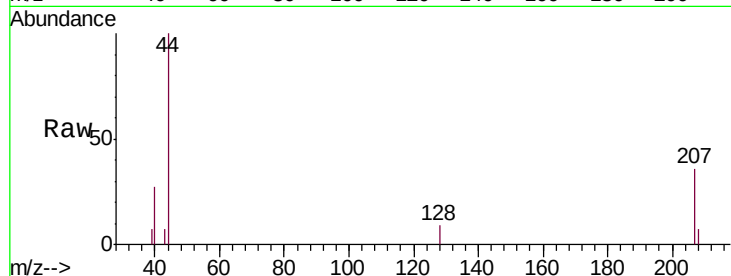




#95
 Naphthalene
 Concen: 1.798 ug/l
 RT: 13.78 min Scan# 3946
 Delta R.T. 0.05 min
 Lab File: VU034056.D
 Acq: 29 Aug 2019 12:57

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

