

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034195.D
 Acq On : 02 Sep 2019 12:29
 Operator : JC/SP
 Sample : K4544-28
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

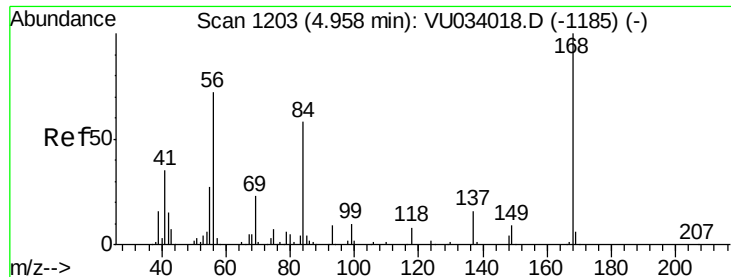
Quant Time: Sep 03 05:53:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	432519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	700909	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	696661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	331982	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	278010	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
35) Dibromofluoromethane	4.86	113	230103	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	7.55	98	913759	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	10.29	95	313869	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	637	Below Cal		99
5) Bromomethane	1.63	94	825	Below Cal		94
8) Diethyl Ether	2.10	74	640	0.223	ug/l #	3
11) Tert butyl alcohol	2.82	59	5901	4.617	ug/l #	73
13) Acrolein	2.19	56	138	0.257	ug/l #	1
16) Acetone	2.31	43	11121	3.933	ug/l	98
18) Methyl Acetate	2.62	43	3709	0.508	ug/l #	86
20) Methylene Chloride	2.69	84	5907	1.103	ug/l	96
31) Cyclohexane	4.96	56	8423	1.018	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31199	4.706	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39492	6.171	ug/l #	16
43) Isopropyl Acetate	5.53	43	80118	7.093	ug/l	99
48) Methyl methacrylate	6.69	41	117310	21.524	ug/l #	40
49) 1,4-Dioxane	6.69	88	148	1.084	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	57475	7.368	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	28404	3.367	ug/l #	64
56) Ethyl methacrylate	7.88	69	306	1.006	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	3681	0.415	ug/l #	42
59) 2-Hexanone	8.40	43	49804	8.458	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	151449	20.241	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	151449	68.156	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	66	1.123	ug/l #	64
95) Naphthalene	13.78	128	256	1.802	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

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MSVOA_U

ClientSampleId :

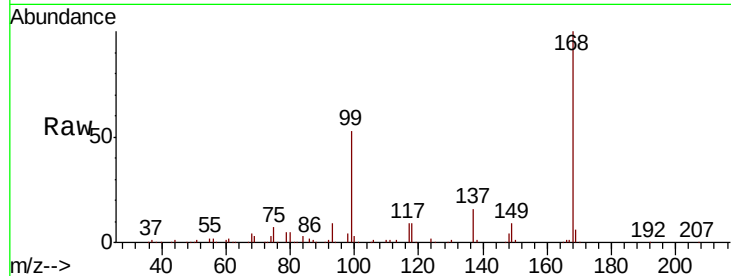
T16-17-B3-(2.25)

Tgt Ion:168 Resp: 432519

Ion Ratio Lower Upper

168 100

99 53.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034195.D (-1110) (-)

4.96

200000

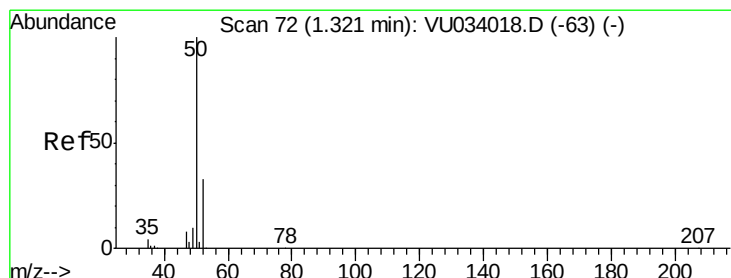
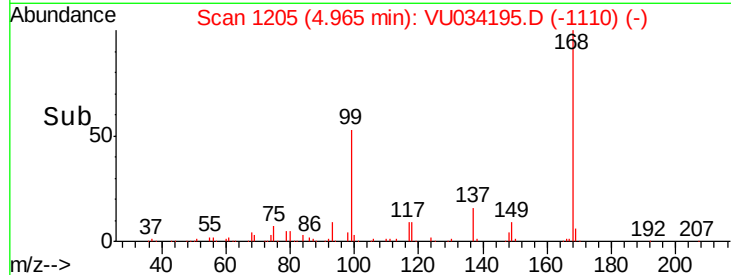
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034195.D

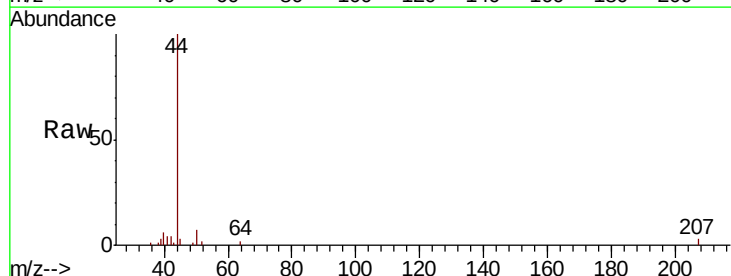
Acq: 02 Sep 2019 12:29

Tgt Ion: 50 Resp: 637

Ion Ratio Lower Upper

50 100

52 33.4 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034195.D (-1) (-)

1.32

600

500

400

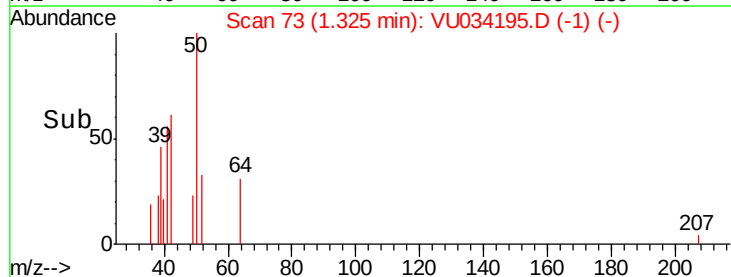
300

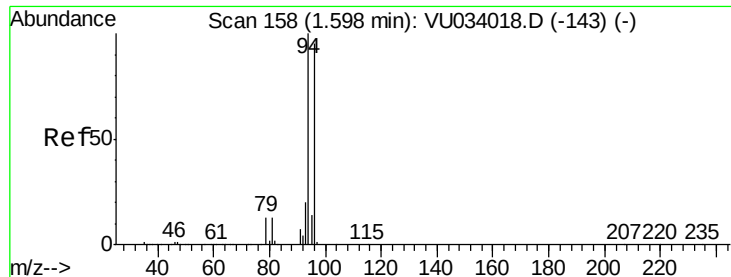
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

Instrument :

MSVOA_U

ClientSampleId :

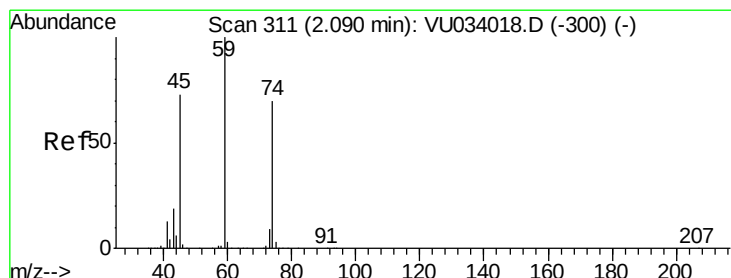
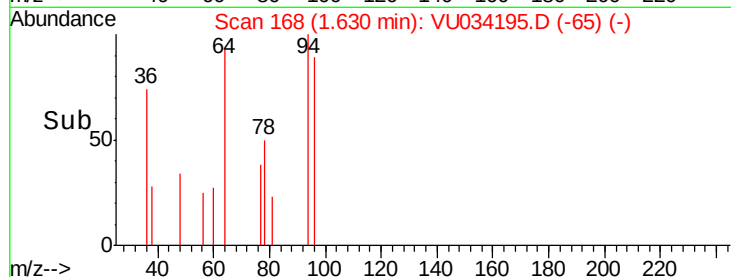
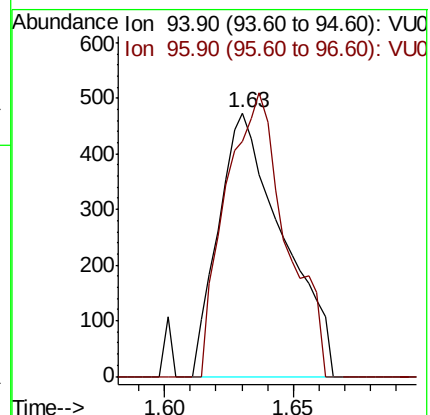
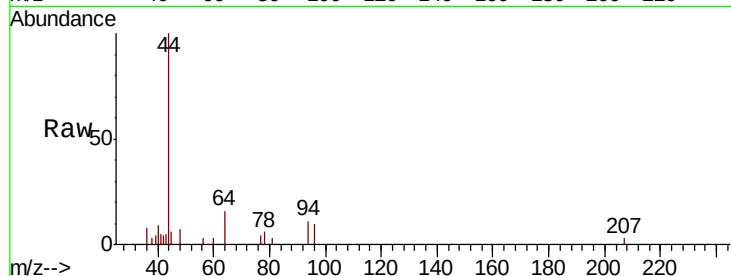
T16-17-B3-(2.25)

Tgt Ion: 94 Resp: 825

Ion Ratio Lower Upper

94 100

96 89.4 76.3 114.5



#8

Diethyl Ether

Concen: 0.223 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034195.D

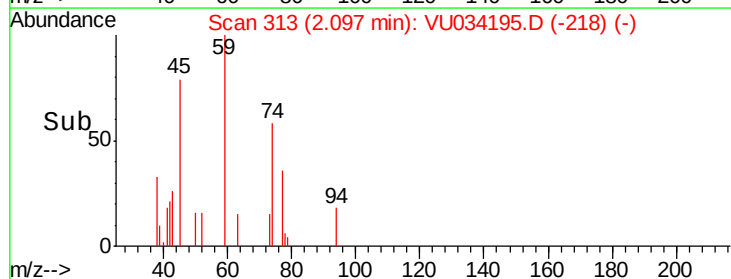
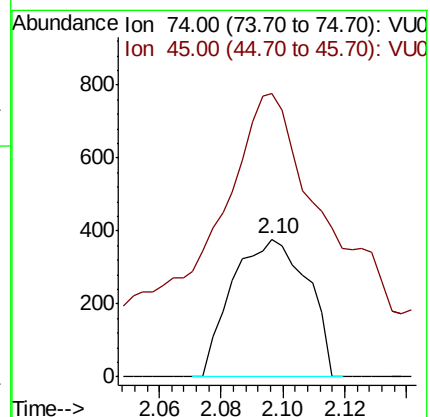
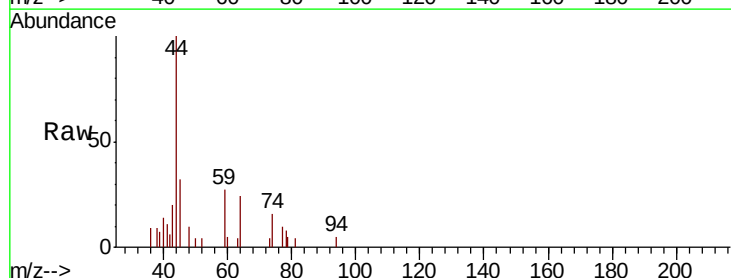
Acq: 02 Sep 2019 12:29

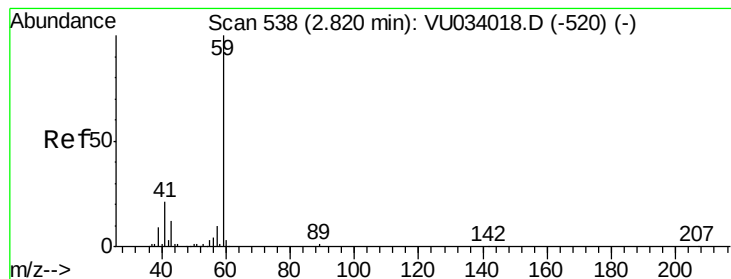
Tgt Ion: 74 Resp: 640

Ion Ratio Lower Upper

74 100

45 203.1 51.8 155.5#





#11

Tert butyl alcohol

Concen: 4.617 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

Instrument :

MSVOA_U

ClientSampleId :

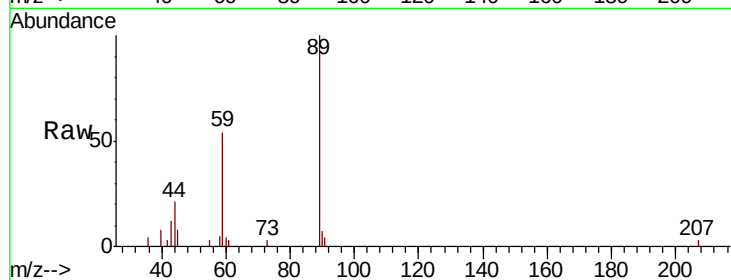
T16-17-B3-(2.25)

Tgt Ion: 59 Resp: 5901

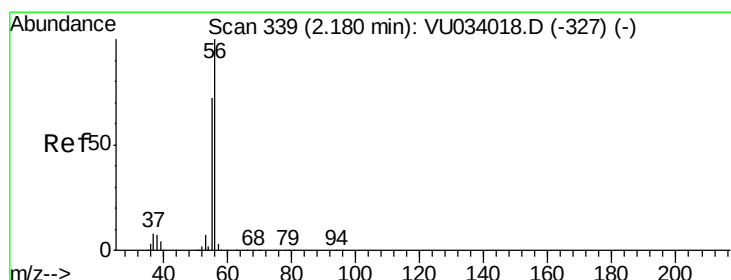
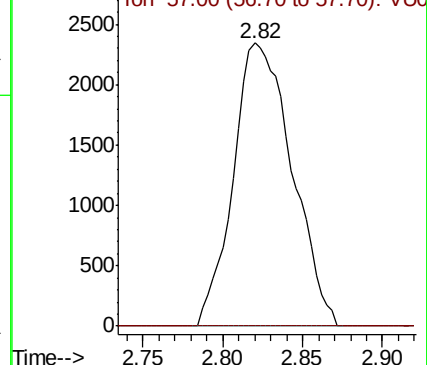
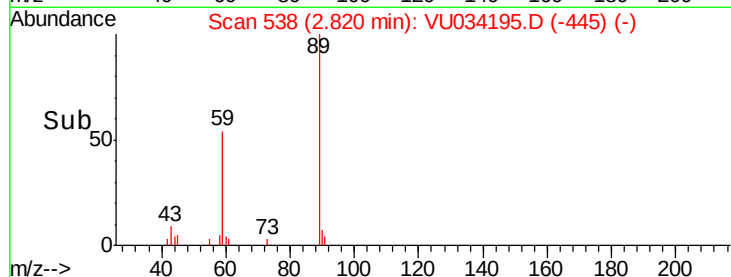
Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034195.D (-445) (-)



#13

Acrolein

Concen: 0.257 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034195.D

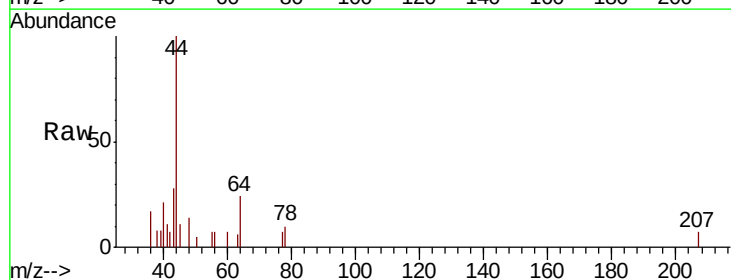
Acq: 02 Sep 2019 12:29

Tgt Ion: 56 Resp: 138

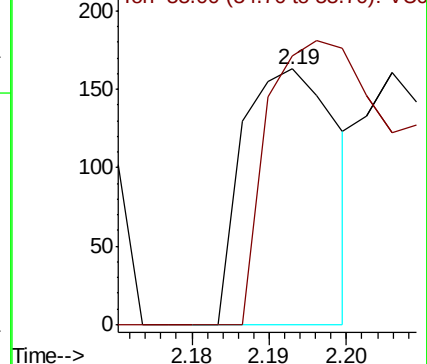
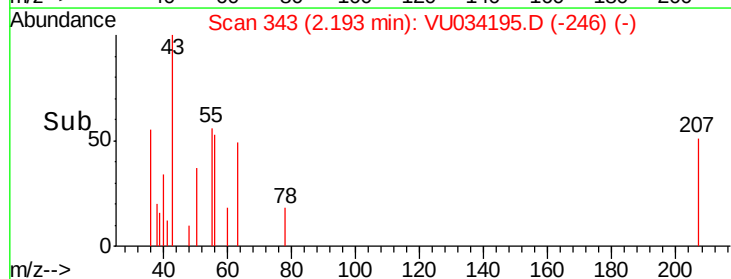
Ion Ratio Lower Upper

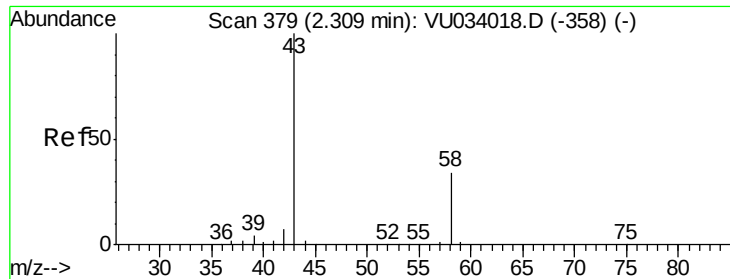
56 100

55 166.7 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034195.D (-246) (-)





#16

Acetone

Concen: 3.933 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

Instrument :

MSVOA_U

ClientSampleId :

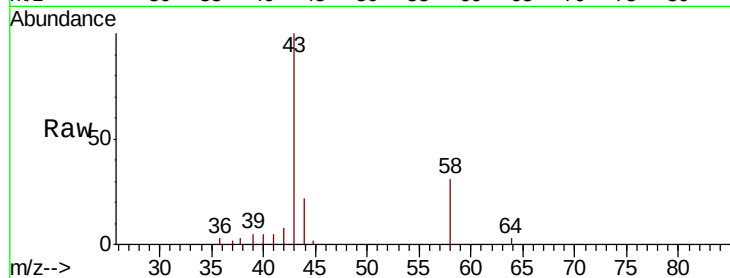
T16-17-B3-(2.25)

Tgt Ion: 43 Resp: 11121

Ion Ratio Lower Upper

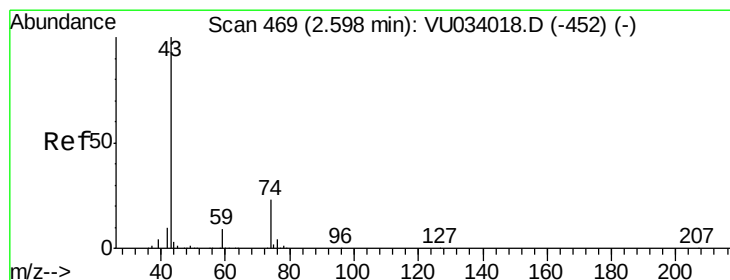
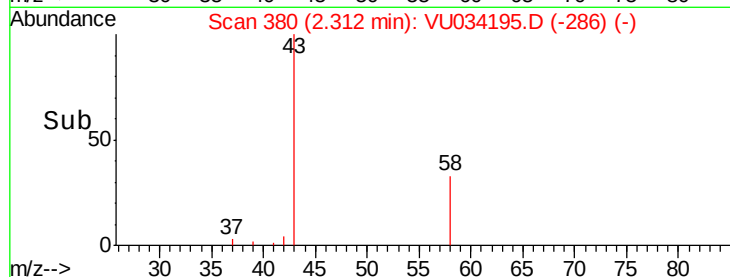
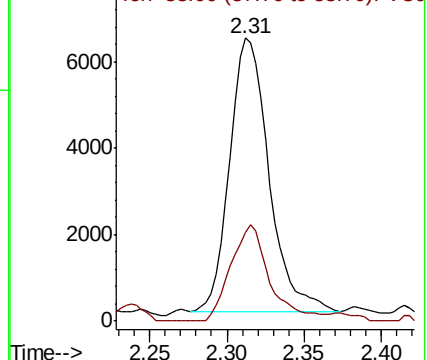
43 100

58 32.4 26.8 40.2



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

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)



#18

Methyl Acetate

Concen: 0.508 ug/l

RT: 2.62 min Scan# 475

Delta R.T. 0.02 min

Lab File: VU034195.D

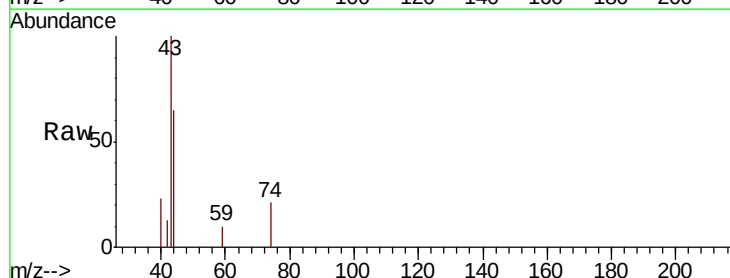
Acq: 02 Sep 2019 12:29

Tgt Ion: 43 Resp: 3709

Ion Ratio Lower Upper

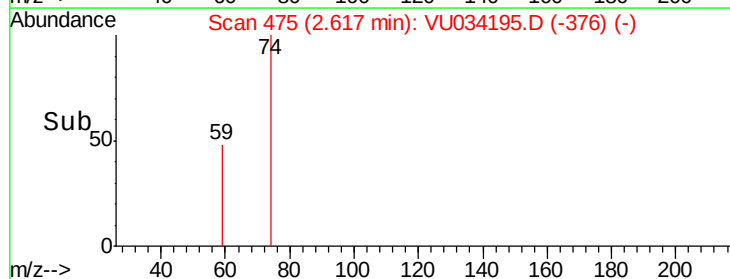
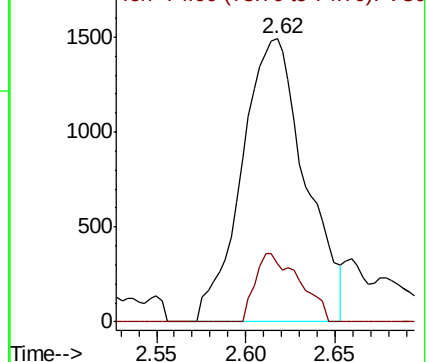
43 100

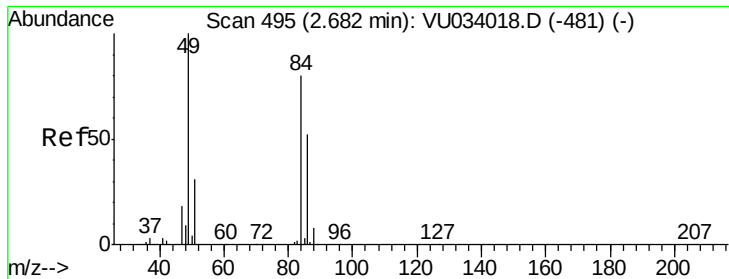
74 16.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

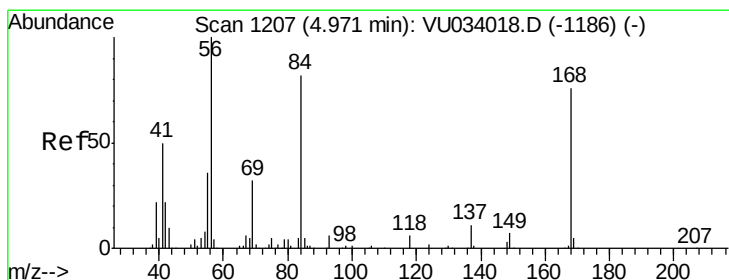
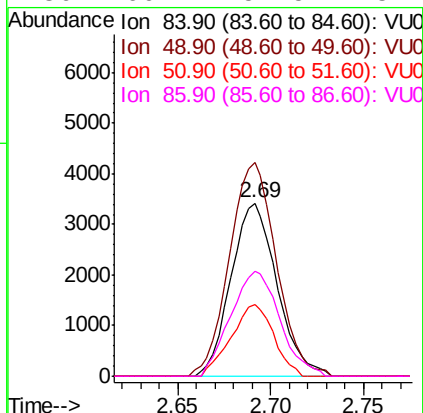
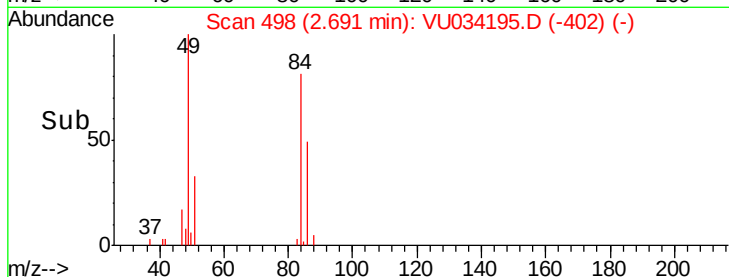
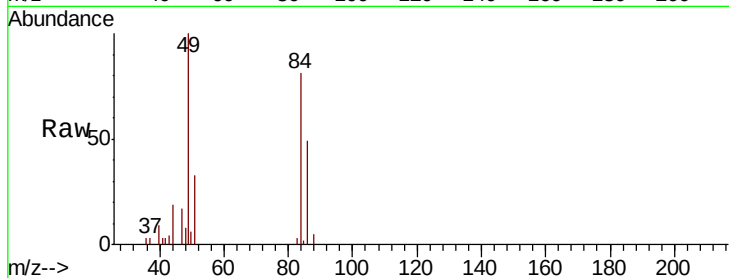




#20
Methylene Chloride
Concen: 1.103 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

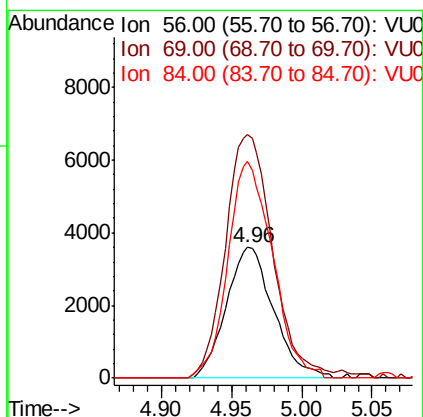
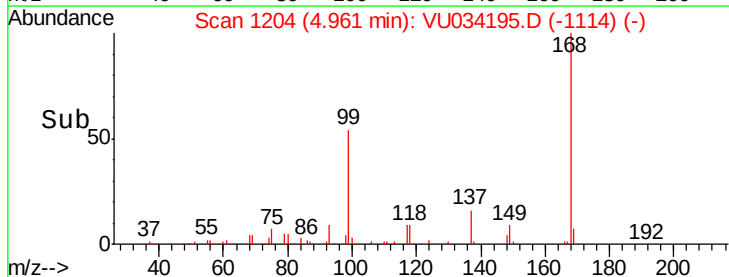
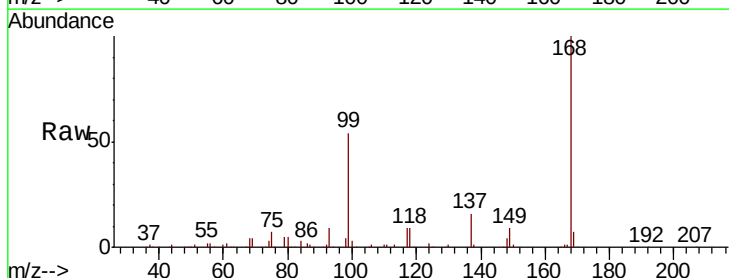
Instrument :
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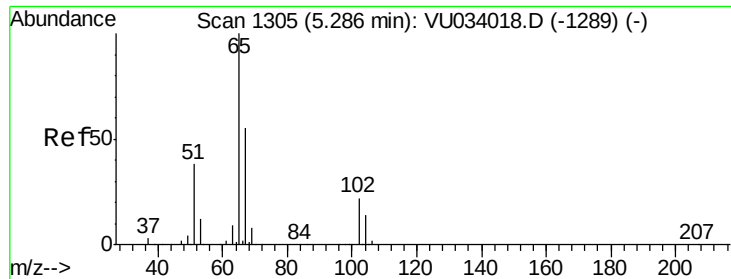
Tgt Ion:	84	Resp:	5907
Ion	Ratio	Lower	Upper
84	100		
49	123.5	100.2	150.4
51	41.2	30.8	46.2
86	60.4	52.5	78.7



#31
Cyclohexane
Concen: 1.018 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

Tgt Ion:	56	Resp:	8423
Ion	Ratio	Lower	Upper
56	100		
69	186.2	25.4	38.0#
84	165.5	65.8	98.8#

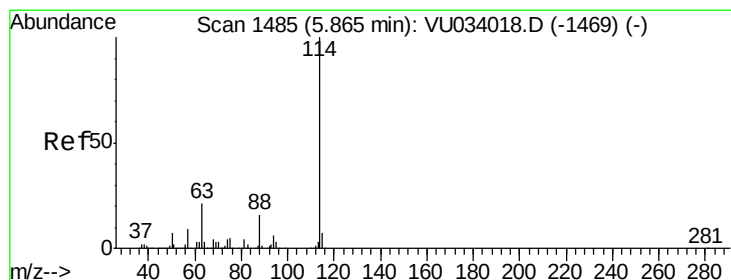
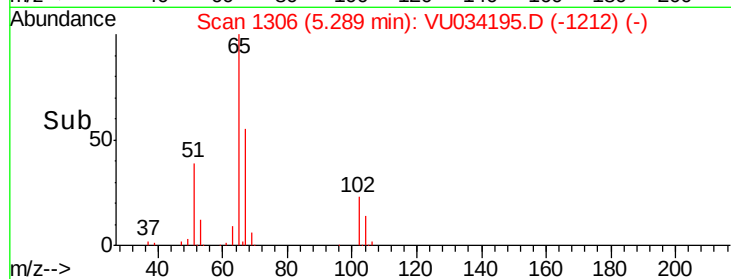
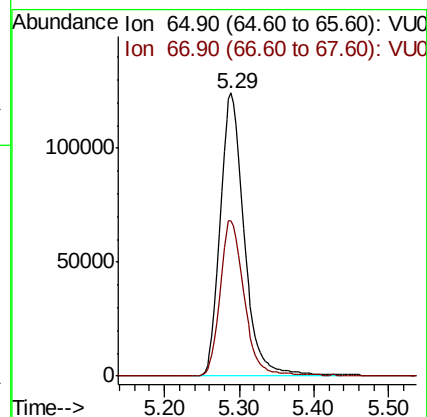
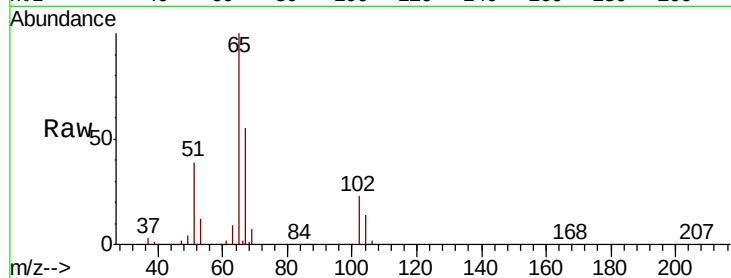




#33
 1,2-Dichloroethane-d4
 Concen: 50.164 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

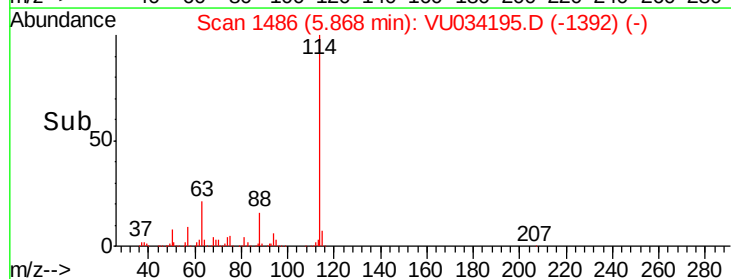
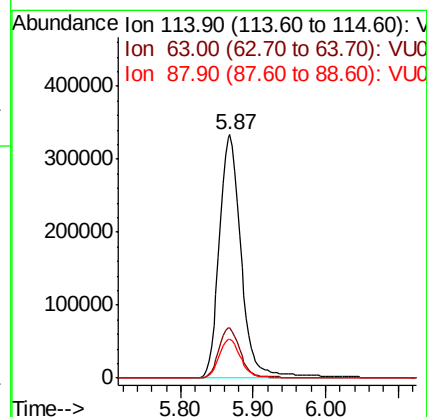
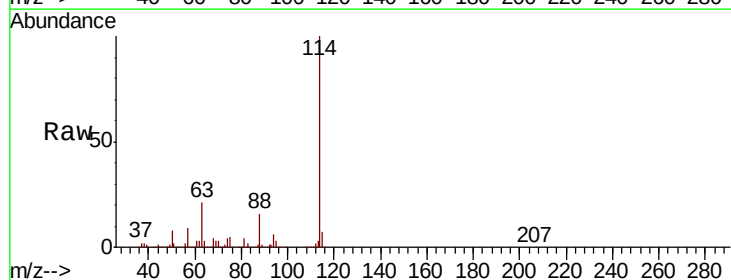
Instrument :
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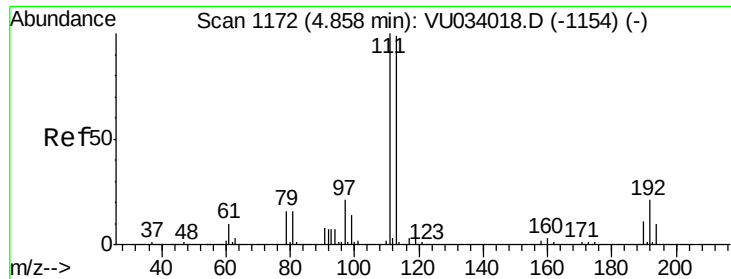
Tgt Ion: 65 Resp: 278010
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion: 114 Resp: 700909
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.0
 88 16.2 0.0 32.0

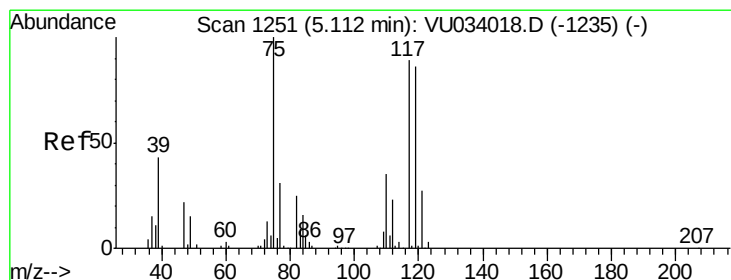
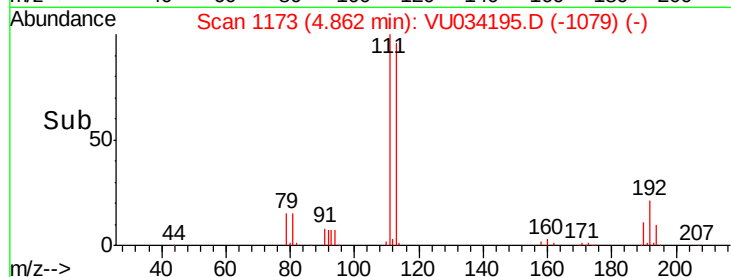
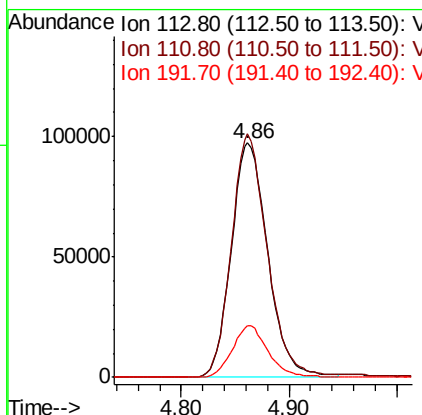
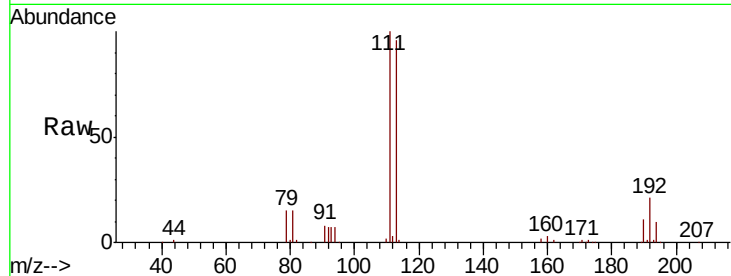




#35
 Dibromofluoromethane
 Concen: 47.332 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

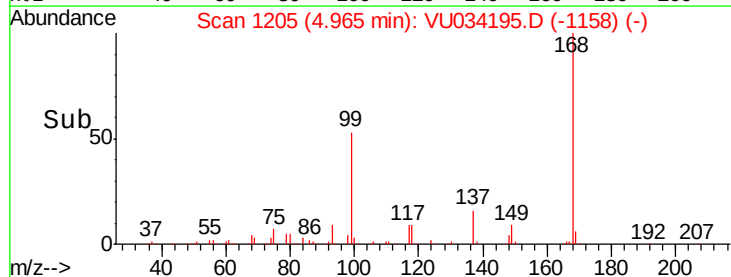
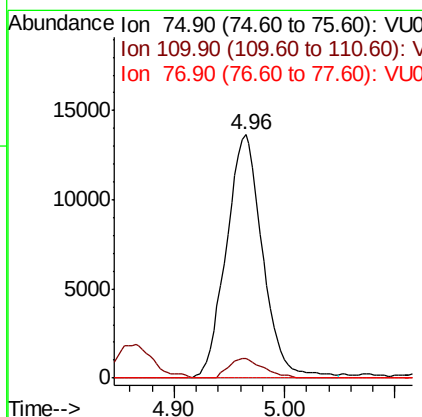
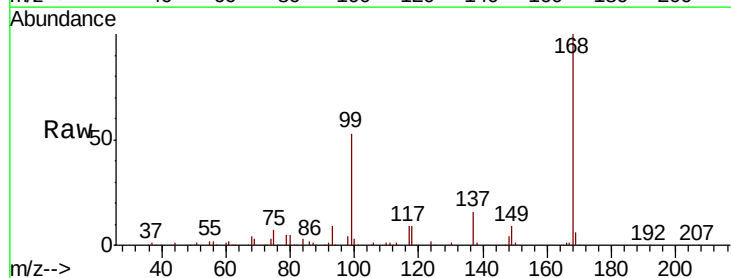
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

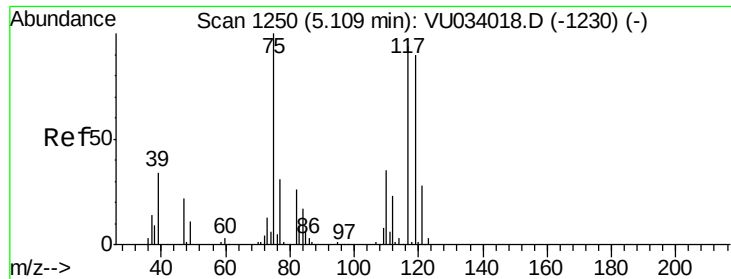
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.7	122.5
192	21.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	17.8	53.5#
77	0.0	25.0	37.4#

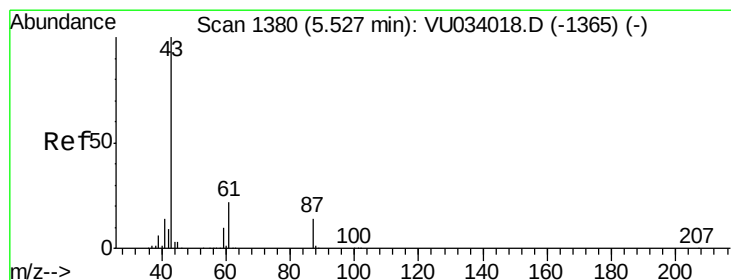
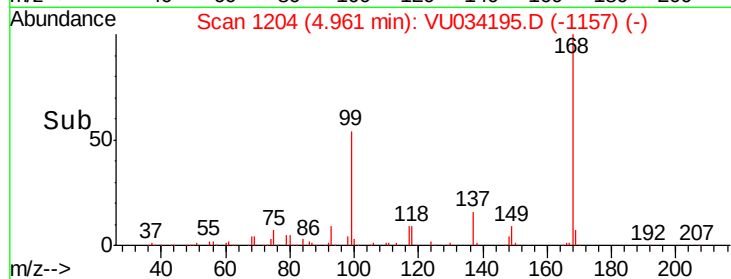
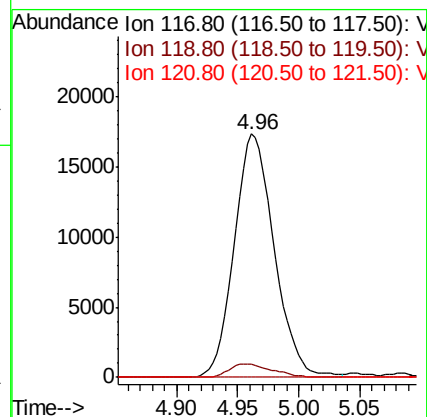
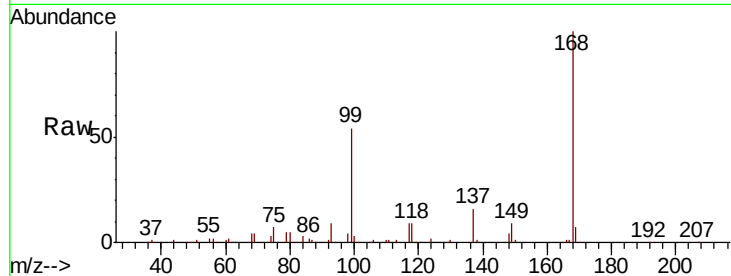




#38
 Carbon Tetrachloride
 Concen: 6.171 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

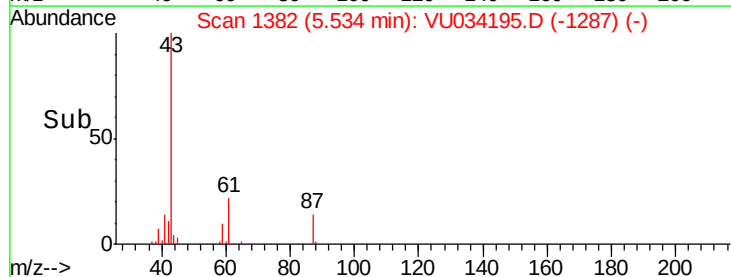
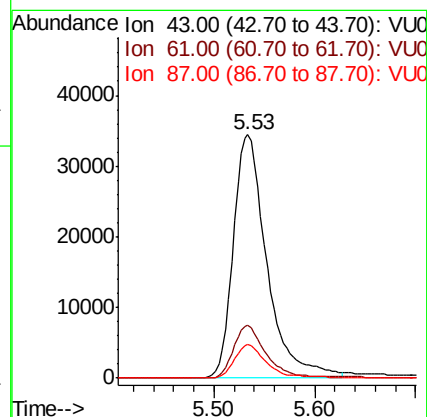
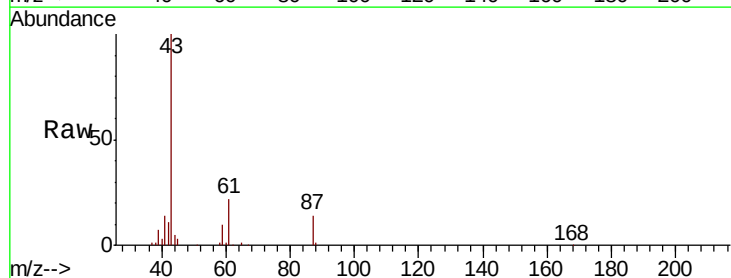
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

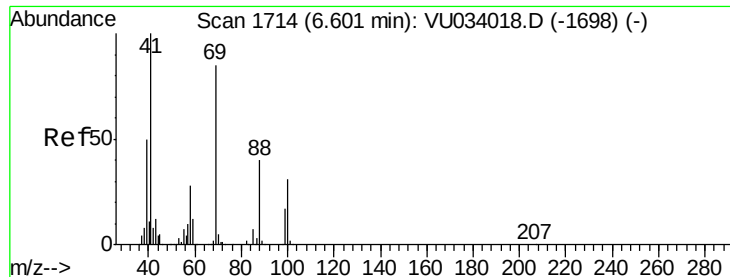
Tgt Ion: 117 Resp: 39492
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.0 115.4#
 121 0.0 23.9 35.9#



#43
 Isopropyl Acetate
 Concen: 7.093 ug/l
 RT: 5.53 min Scan# 1382
 Delta R.T. 0.01 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion: 43 Resp: 80118
 Ion Ratio Lower Upper
 43 100
 61 20.8 17.2 25.8
 87 12.9 10.8 16.2

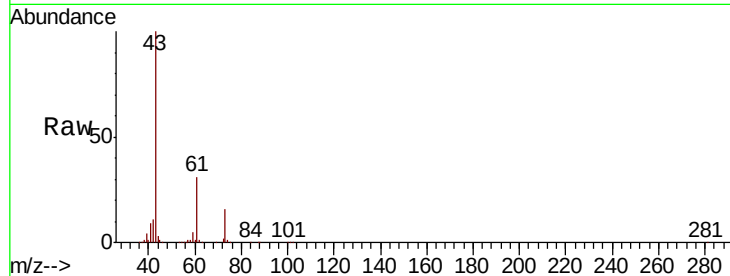




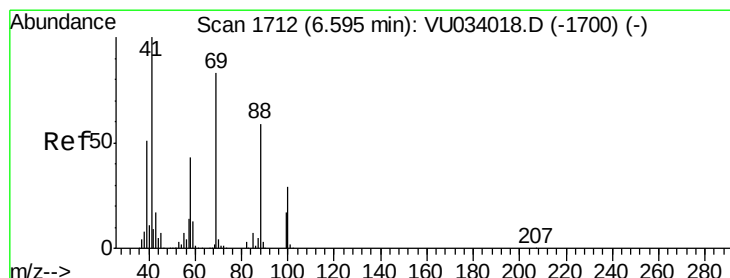
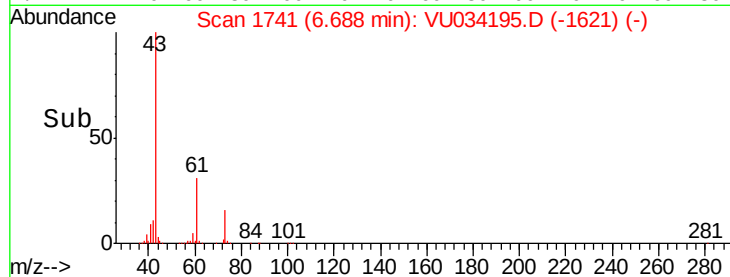
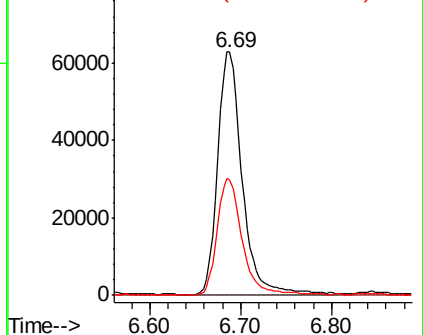
#48
Methyl methacrylate
Concen: 21.524 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B3-(2.25)

Tgt Ion: 41 Resp: 117310
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 49.6 40.3 60.5

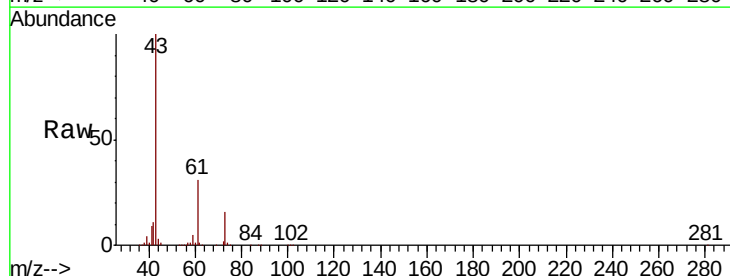


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

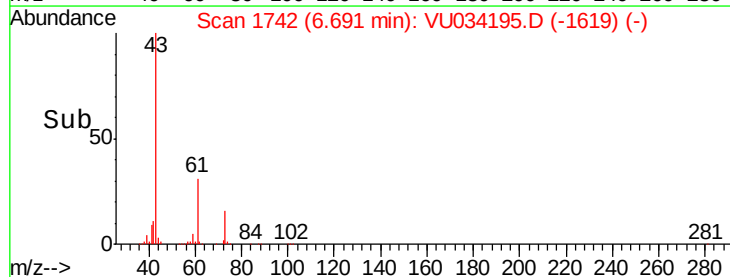
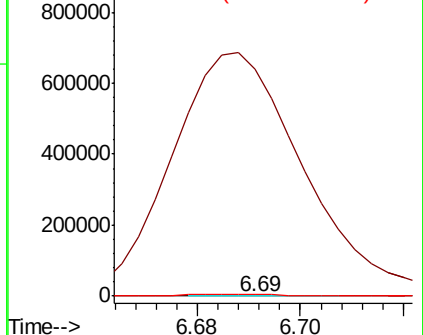


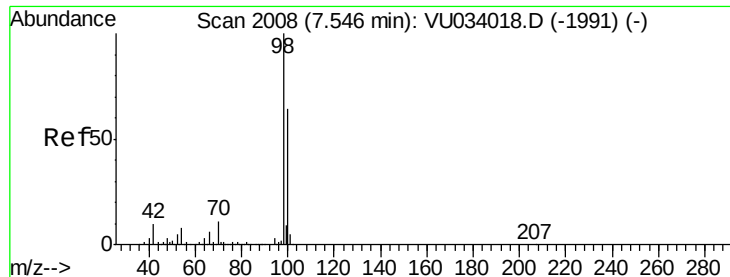
#49
1,4-Dioxane
Concen: 1.084 ug/l
RT: 6.69 min Scan# 1742
Delta R.T. 0.10 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

Tgt Ion: 88 Resp: 148
Ion Ratio Lower Upper
88 100
43 865647.3 24.8 37.2#
58 4818.9 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

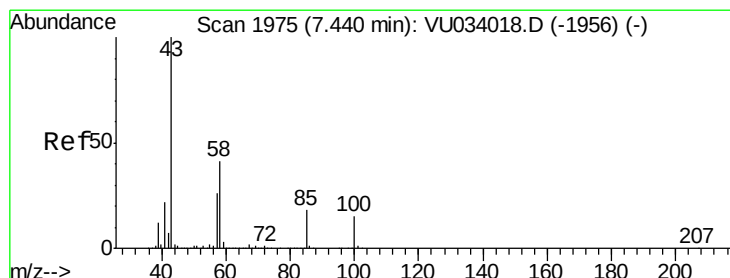
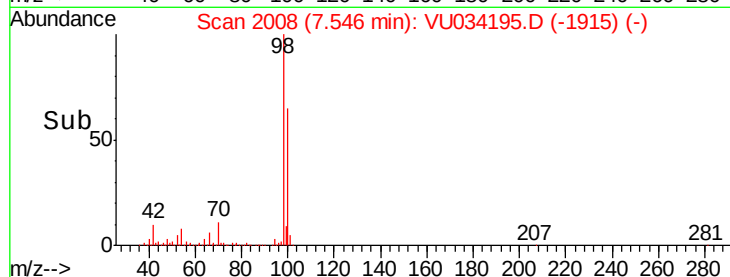
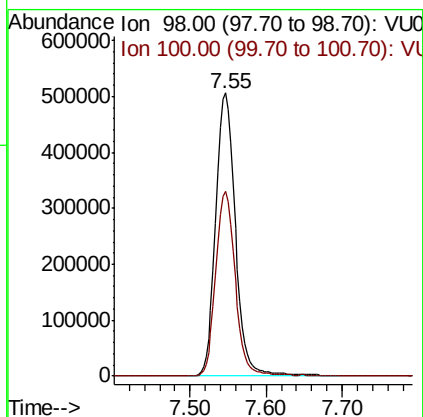
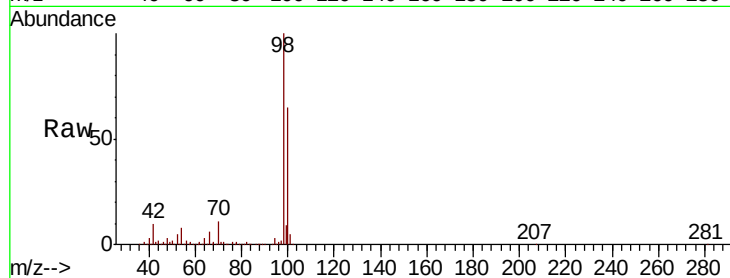




#50
Toluene-d8
Concen: 50.198 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

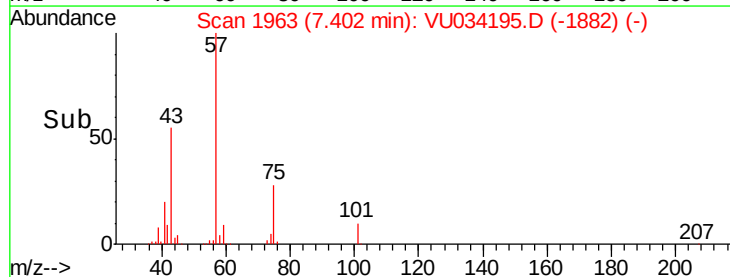
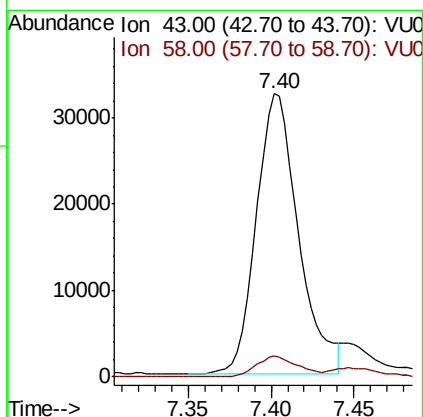
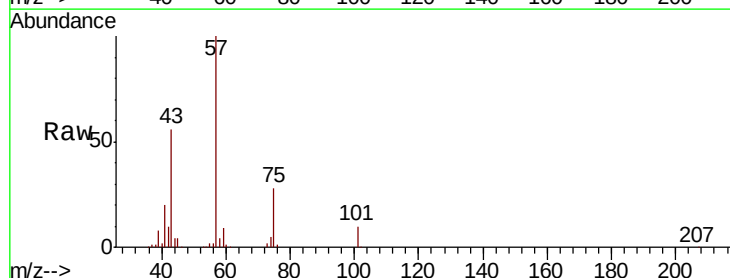
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B3-(2.25)

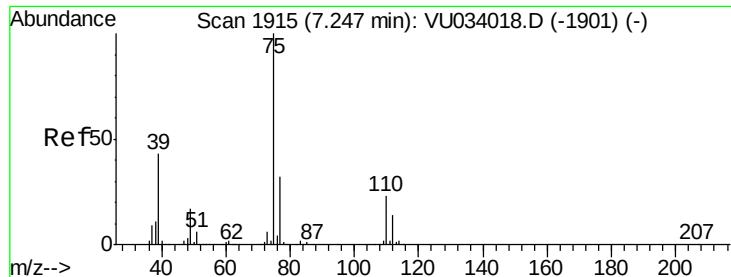
Tgt Ion: 98 Resp: 913759
Ion Ratio Lower Upper
98 100
100 64.5 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 7.368 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

Tgt Ion: 43 Resp: 57475
Ion Ratio Lower Upper
43 100
58 7.4 32.2 48.4#



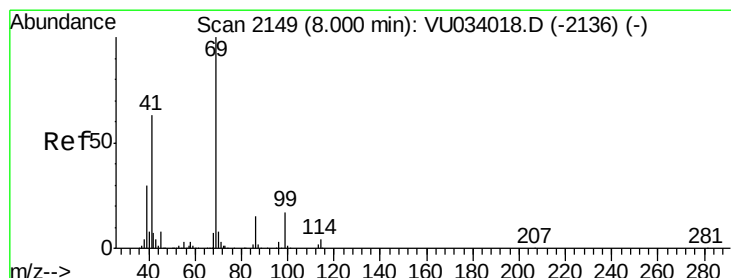
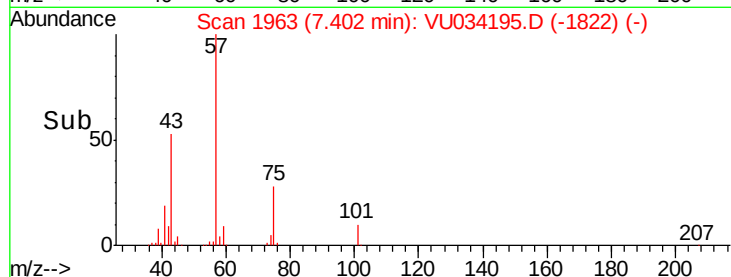
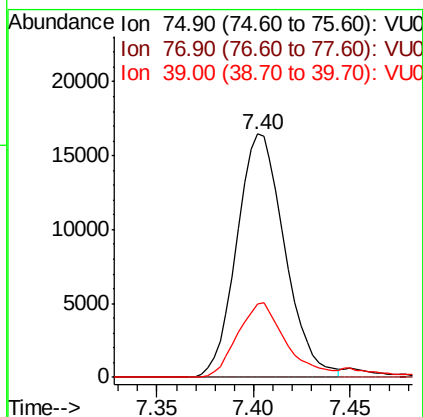
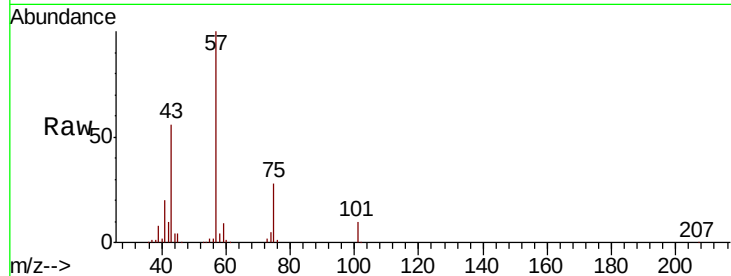


#54

cis-1,3-Dichloropropene
 Concen: 3.367 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

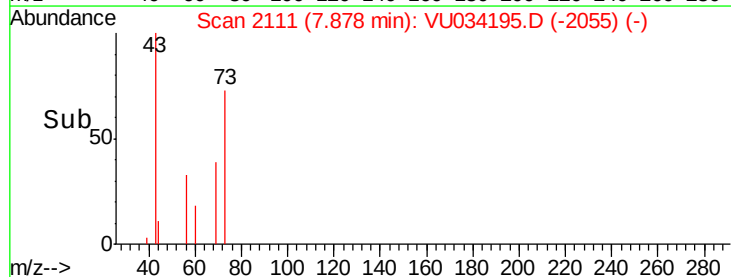
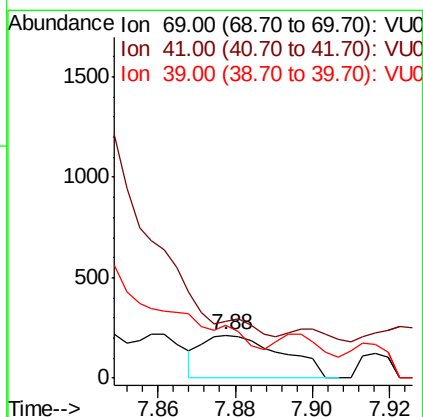
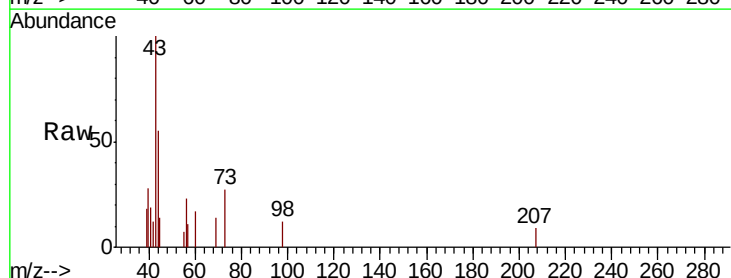
Tgt Ion: 75 Resp: 28404
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.9 34.6 51.8#

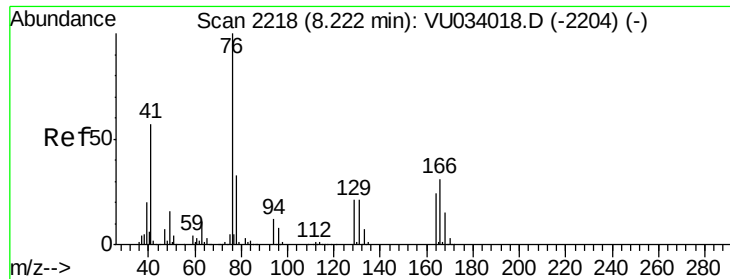


#56

Ethyl methacrylate
 Concen: 1.006 ug/l
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.12 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion: 69 Resp: 306
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

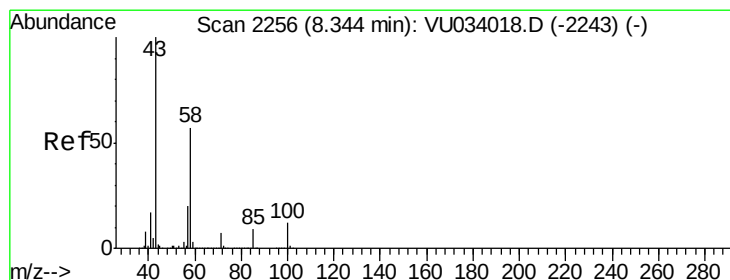
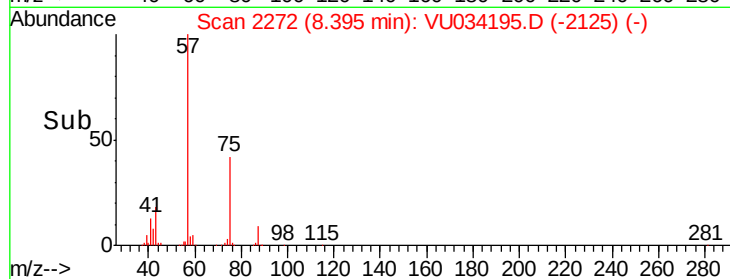
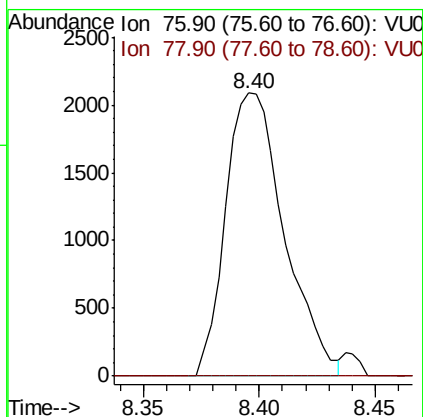
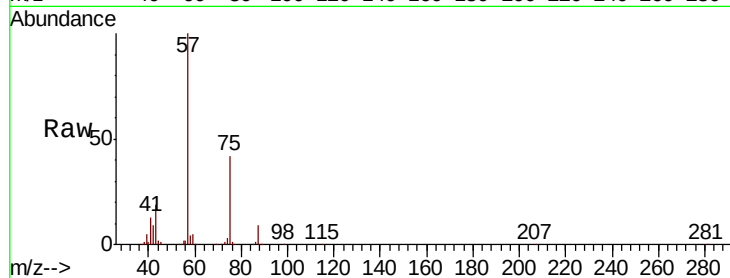




#57
 1,3-Dichloropropane
 Concen: 0.415 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

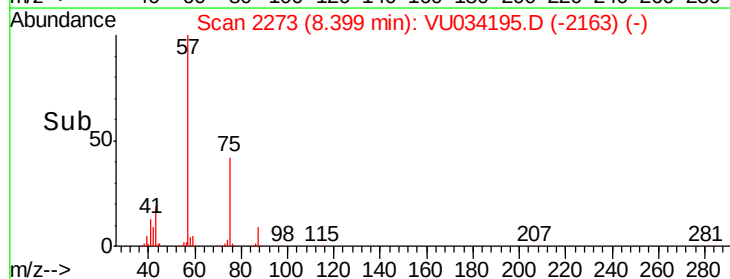
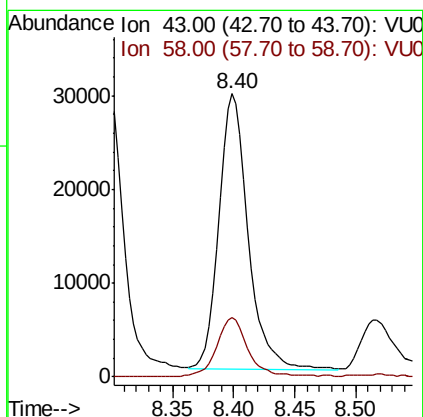
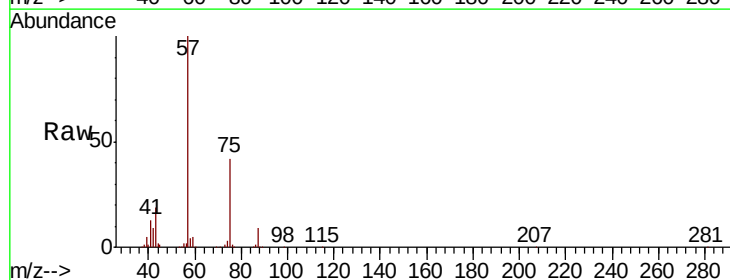
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

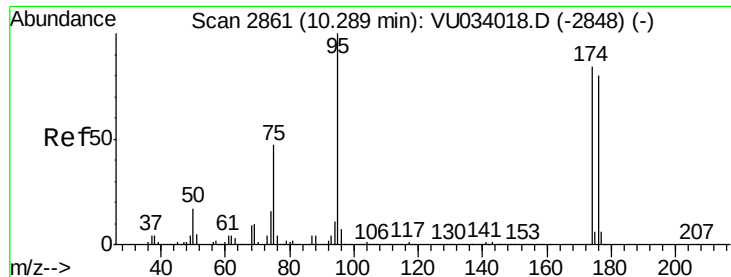
Tgt Ion: 76 Resp: 3681
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 8.458 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion: 43 Resp: 49804
 Ion Ratio Lower Upper
 43 100
 58 23.2 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 44.327 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B3-(2.25)

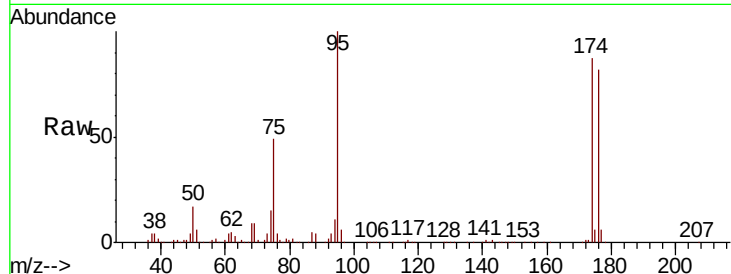
Tgt Ion: 95 Resp: 313869

Ion Ratio Lower Upper

95 100

174 85.3 0.0 168.8

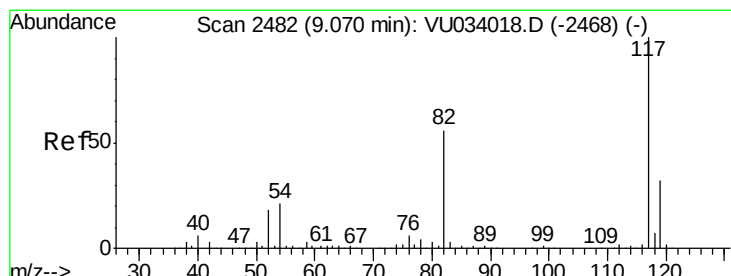
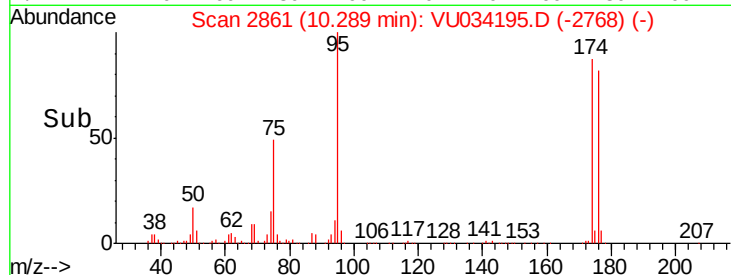
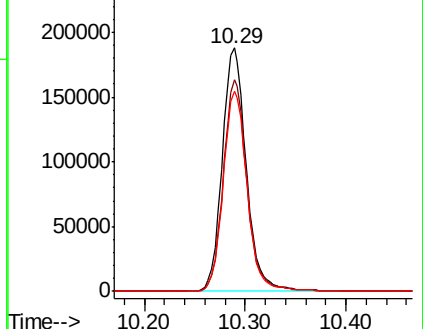
176 82.0 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034195.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034195.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034195.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

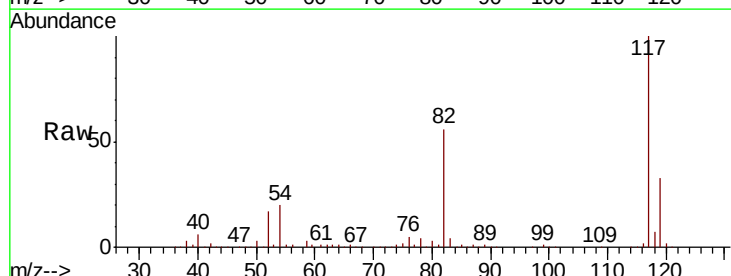
Tgt Ion: 117 Resp: 696661

Ion Ratio Lower Upper

117 100

82 56.0 45.1 67.7

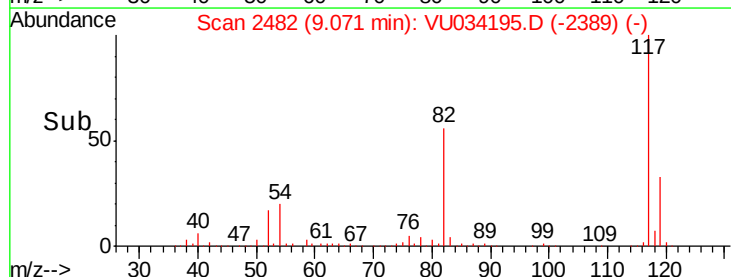
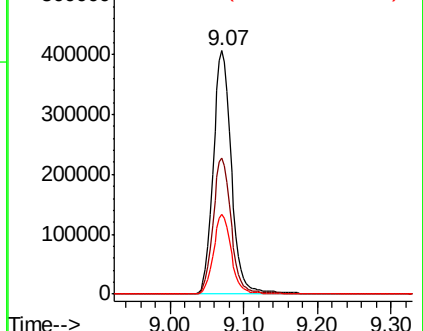
119 32.6 25.4 38.0

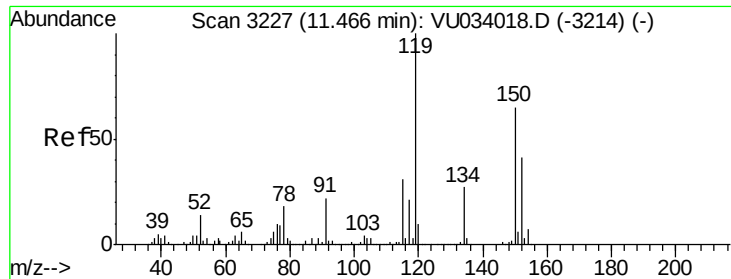


Abundance Ion 116.90 (116.60 to 117.60): VU034195.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034195.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034195.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034195.D

Acq: 02 Sep 2019 12:29

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B3-(2.25)

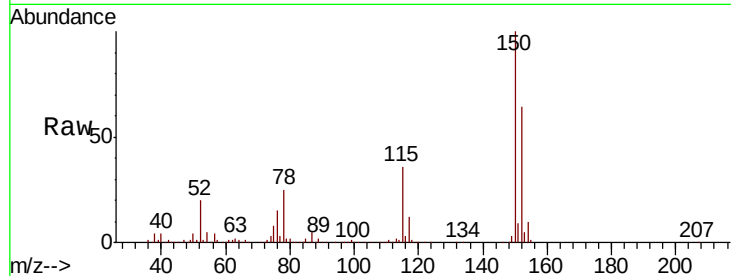
Tgt Ion:152 Resp: 331982

Ion Ratio Lower Upper

152 100

115 56.6 41.1 123.3

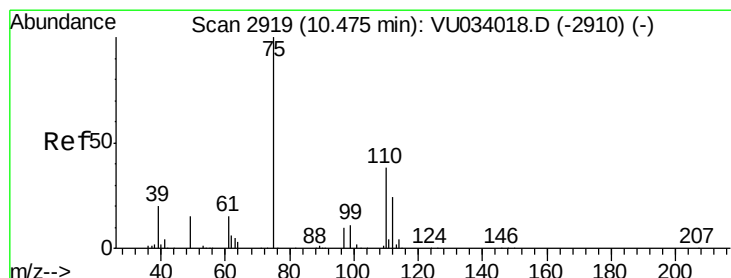
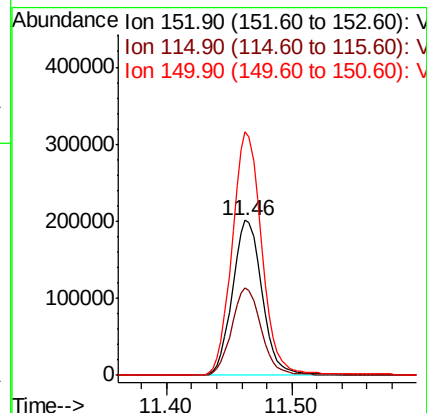
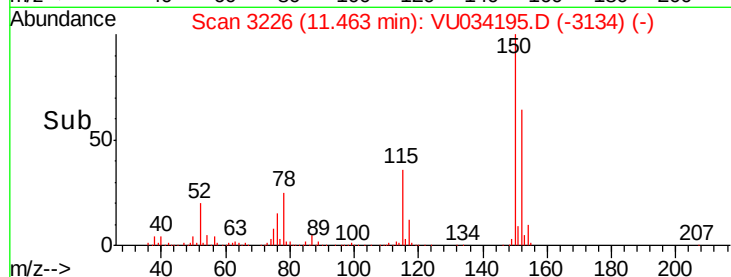
150 155.8 0.0 348.8



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: 20.241 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034195.D

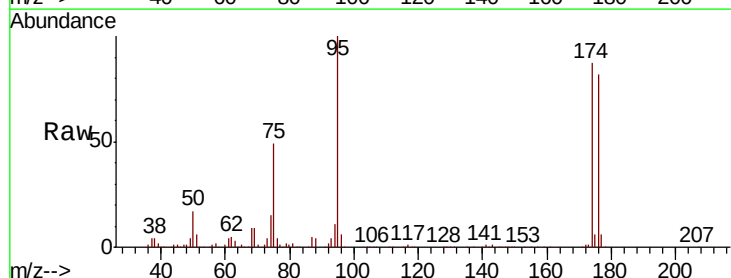
Acq: 02 Sep 2019 12:29

Tgt Ion: 75 Resp: 151449

Ion Ratio Lower Upper

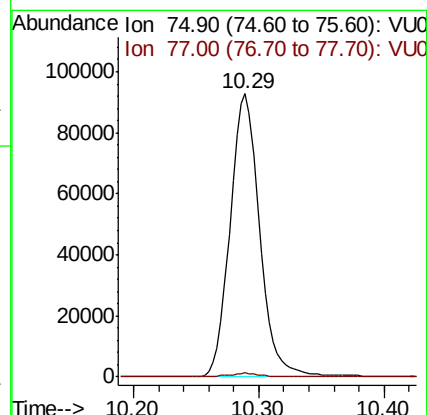
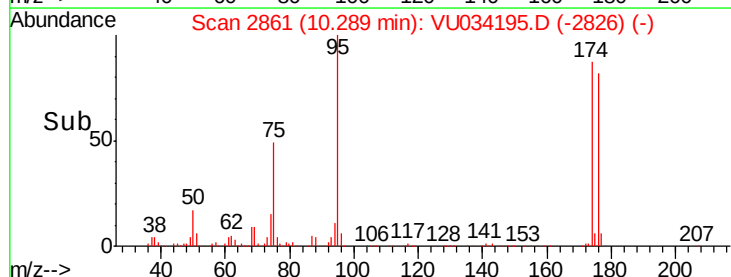
75 100

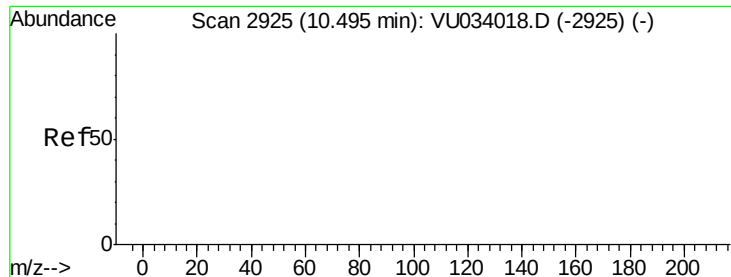
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

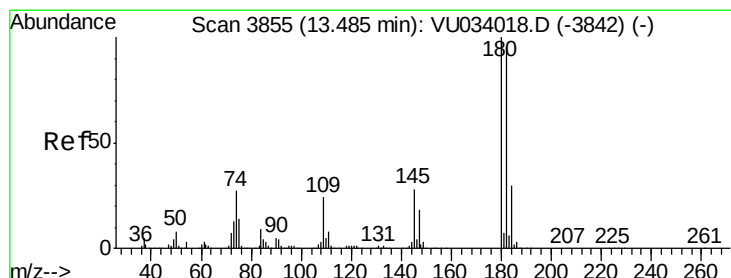
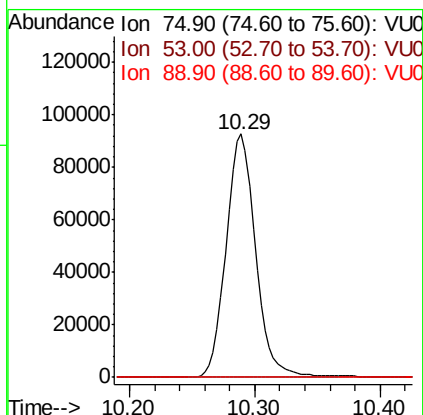
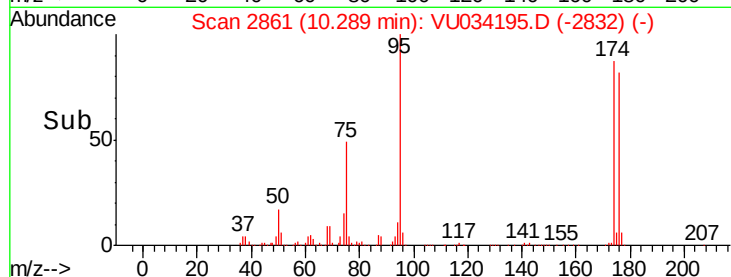
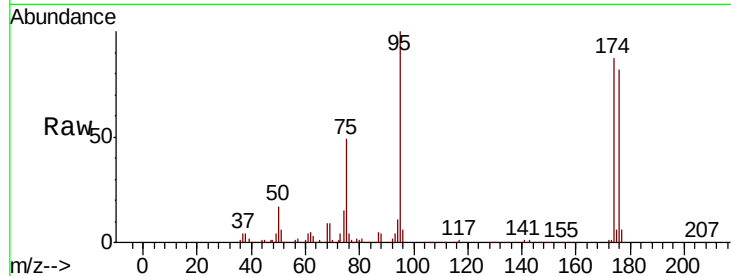




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.156 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

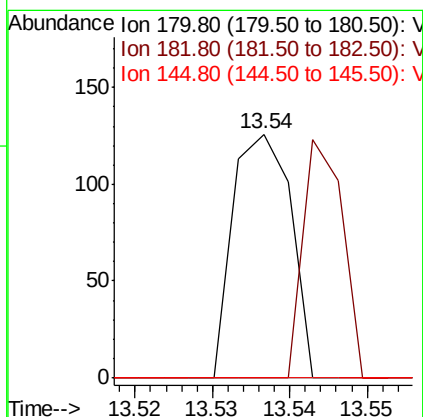
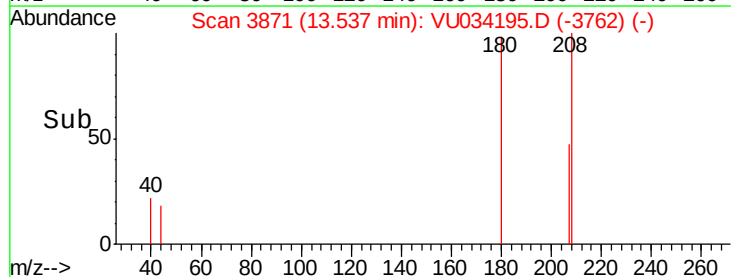
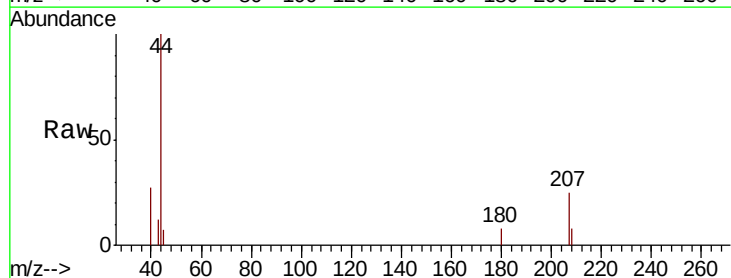
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B3-(2.25)

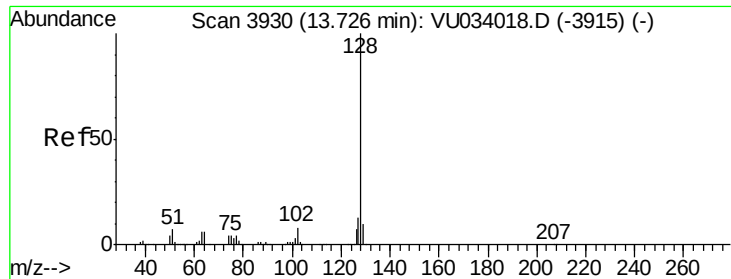
Tgt Ion: 75 Resp: 151449
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.123 ug/l
 RT: 13.54 min Scan# 3871
 Delta R.T. 0.05 min
 Lab File: VU034195.D
 Acq: 02 Sep 2019 12:29

Tgt Ion: 180 Resp: 66
 Ion Ratio Lower Upper
 180 100
 182 65.2 47.4 142.2
 145 0.0 14.1 42.3#





#95
Naphthalene
Concen: 1.802 ug/l
RT: 13.78 min Scan# 3947
Delta R.T. 0.05 min
Lab File: VU034195.D
Acq: 02 Sep 2019 12:29

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B3-(2.25)

Tgt Ion:128 Resp: 256
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

