

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034208.D
 Acq On : 02 Sep 2019 17:32
 Operator : JC/SP
 Sample : K4545-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E4-(0)

Quant Time: Sep 03 05:56:39 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	428917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	680076	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	703624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335837	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	277017	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
35) Dibromofluoromethane	4.86	113	230615	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
50) Toluene-d8	7.55	98	909868	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
62) 4-Bromofluorobenzene	10.29	95	314390	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	

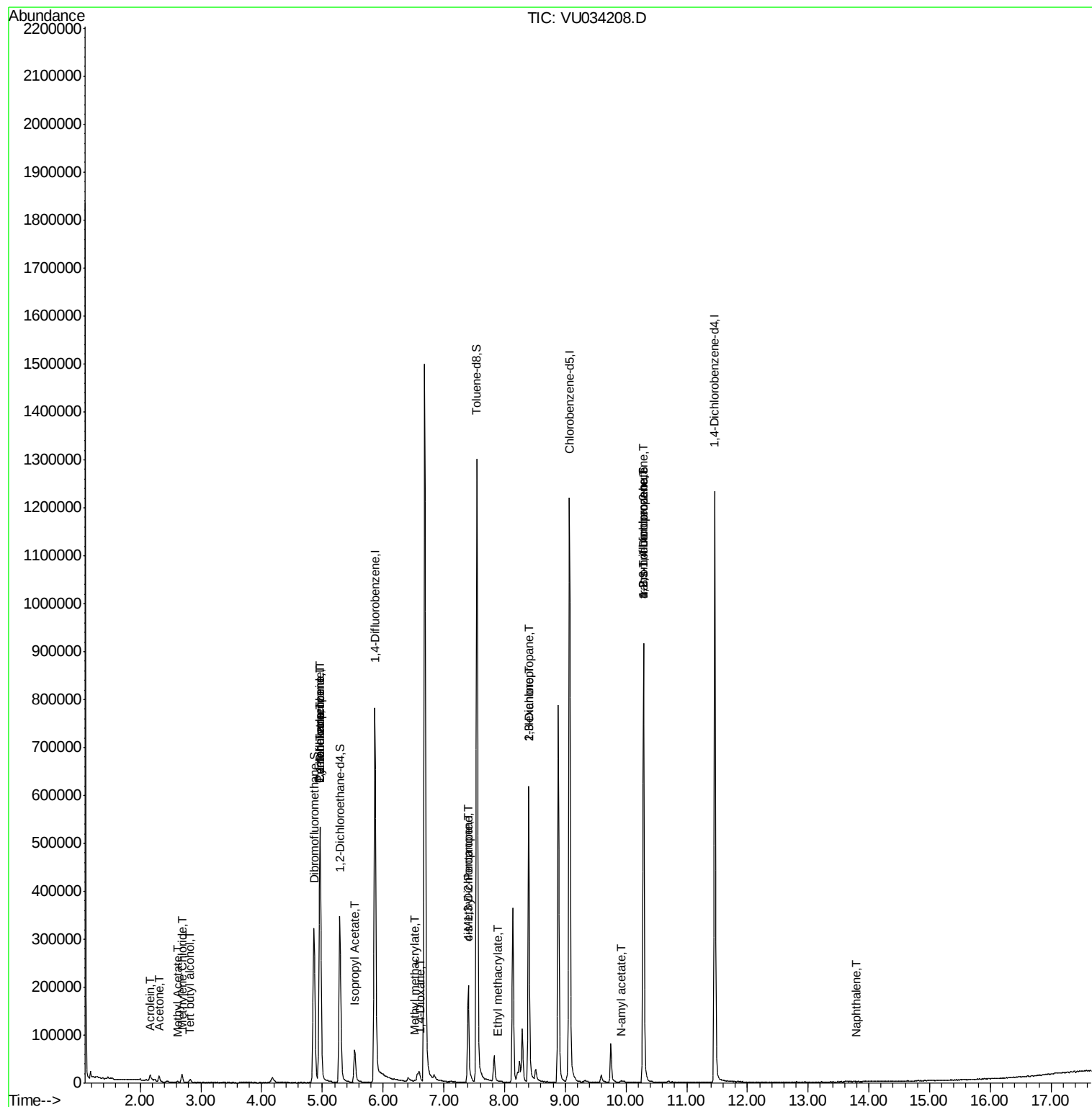
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	359	Below Cal	#	42
5) Bromomethane	1.63	94	546	Below Cal		81
11) Tert butyl alcohol	2.83	59	4180	3.298	ug/l #	73
13) Acrolein	2.18	56	127	0.238	ug/l #	78
16) Acetone	2.31	43	13738	4.899	ug/l	97
18) Methyl Acetate	2.61	43	3351	0.462	ug/l #	87
20) Methylene Chloride	2.69	84	8133	1.532	ug/l	90
31) Cyclohexane	4.96	56	7691	0.937	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31415	4.884	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39349	6.337	ug/l #	16
43) Isopropyl Acetate	5.53	43	82113	7.493	ug/l	99
48) Methyl methacrylate	6.53	41	4287	0.811	ug/l #	14
49) 1,4-Dioxane	6.63	88	42	0.317	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	77432	10.231	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	36687	4.482	ug/l #	65
56) Ethyl methacrylate	7.90	69	224	0.998	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6448	0.749	ug/l #	42
59) 2-Hexanone	8.40	43	84530	14.795	ug/l #	53
74) N-amyl acetate	9.92	43	2029	0.214	ug/l #	49
76) 1,2,3-Trichloropropane	10.29	75	153943	20.338	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	153943	68.483	ug/l #	100
95) Naphthalene	13.79	128	46	1.792	ug/l #	70

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

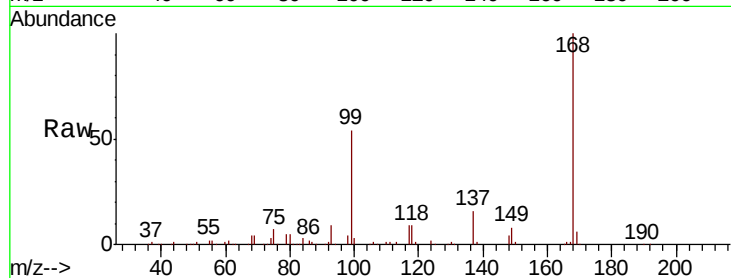
T16-17-E4-(0)

Tgt Ion:168 Resp: 428917

Ion Ratio Lower Upper

168 100

99 53.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034208.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034208.D (-1185) (-)

4.96

200000

150000

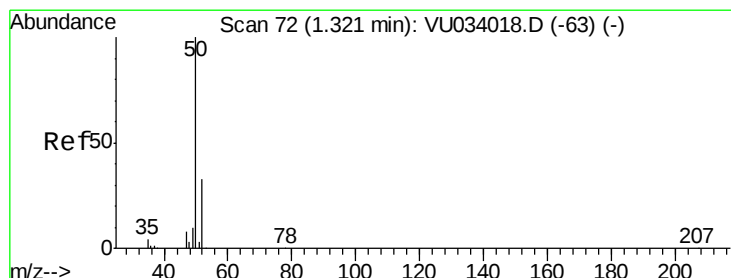
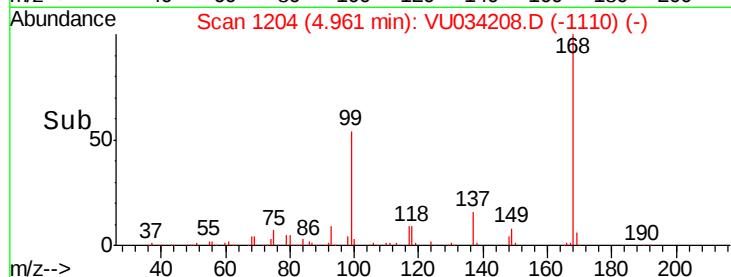
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034208.D

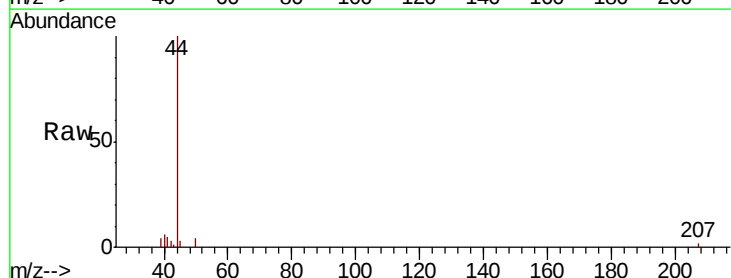
Acq: 02 Sep 2019 17:32

Tgt Ion: 50 Resp: 359

Ion Ratio Lower Upper

50 100

52 0.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034208.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034208.D (-63) (-)

1.32

400

300

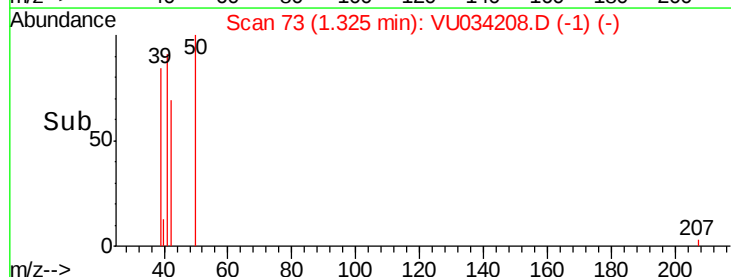
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

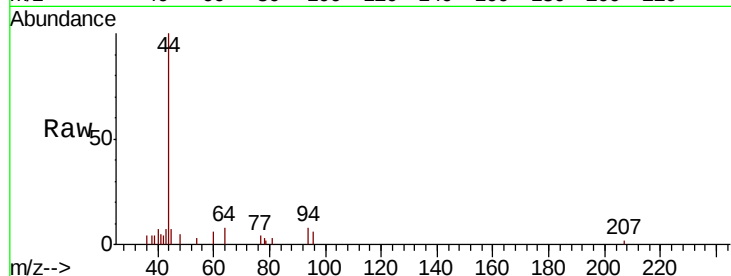
T16-17-E4-(0)

Tgt Ion: 94 Resp: 546

Ion Ratio Lower Upper

94 100

96 76.7 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034208.D (-165) (-)

Ion 95.90 (95.60 to 96.60): VU034208.D (-165) (-)

1.63

300

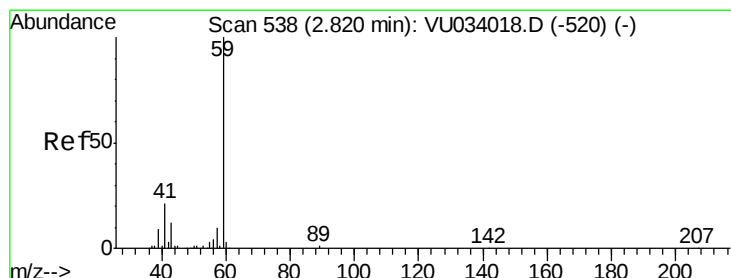
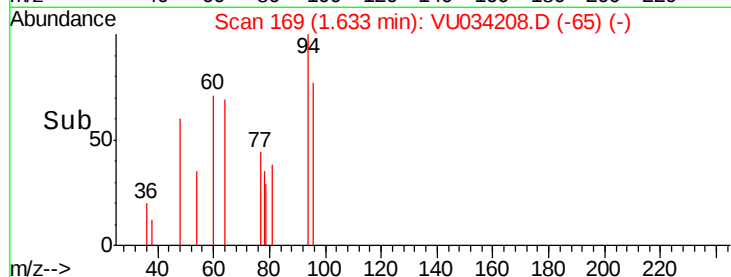
200

100

0

1.60 1.62 1.64 1.66 1.68

Time-->



#11

Tert butyl alcohol

Concen: 3.298 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034208.D

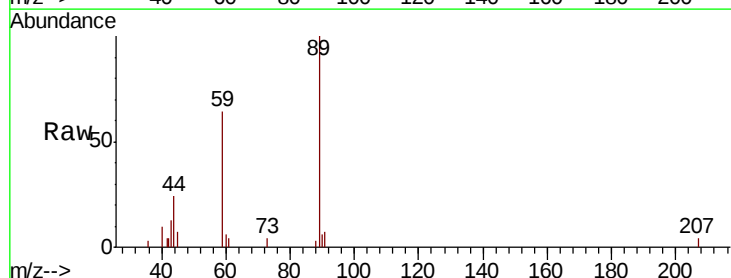
Acq: 02 Sep 2019 17:32

Tgt Ion: 59 Resp: 4180

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034208.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034208.D (-445) (-)

2.83

2000

1500

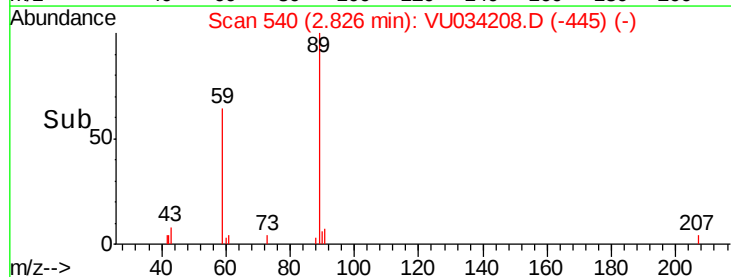
1000

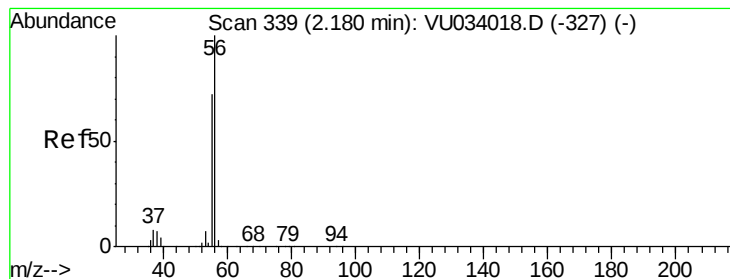
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.238 ug/l

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

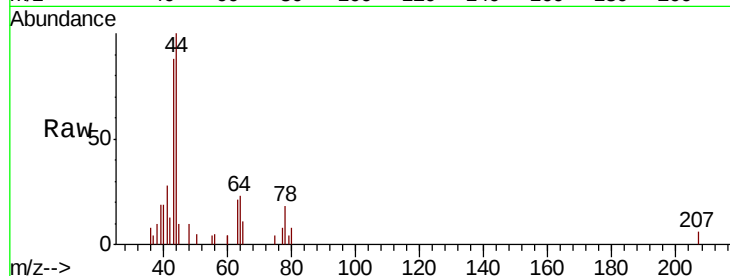
T16-17-E4-(0)

Tgt Ion: 56 Resp: 127

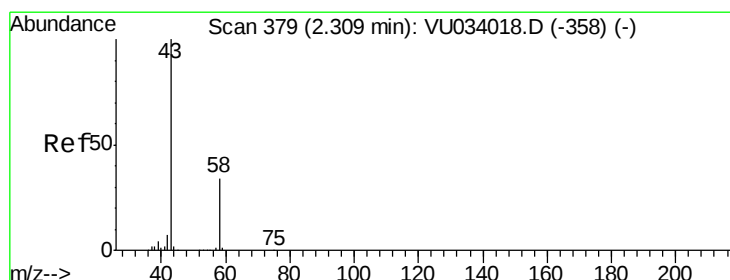
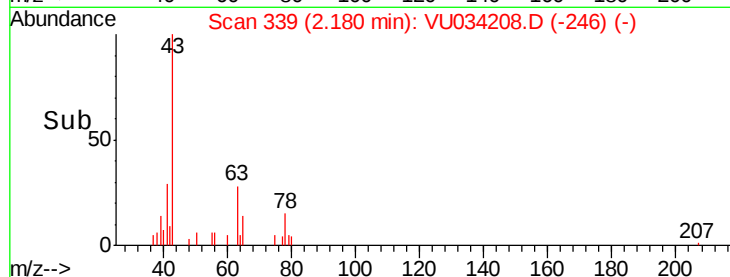
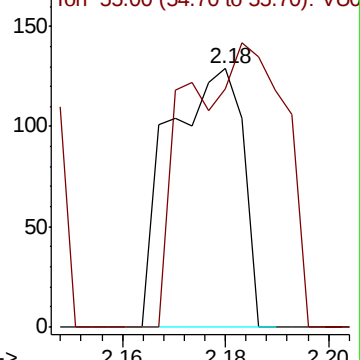
Ion Ratio Lower Upper

56 100

55 52.8 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034208.D (-327) (-)



#16

Acetone

Concen: 4.899 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034208.D

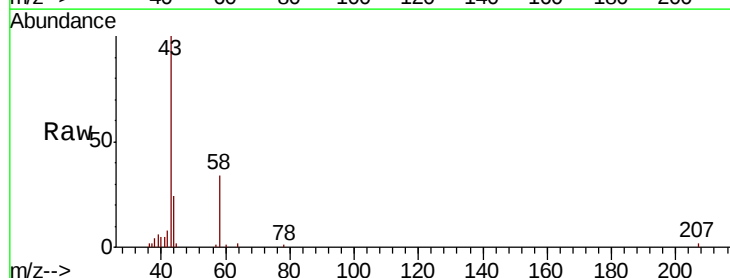
Acq: 02 Sep 2019 17:32

Tgt Ion: 43 Resp: 13738

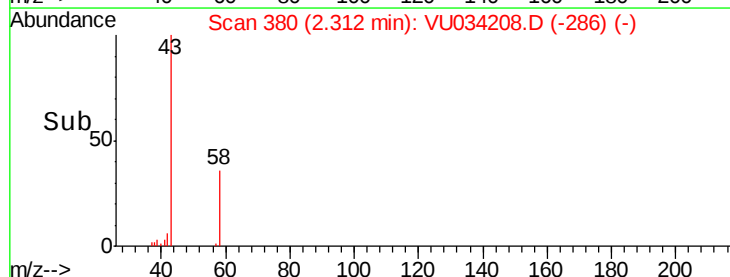
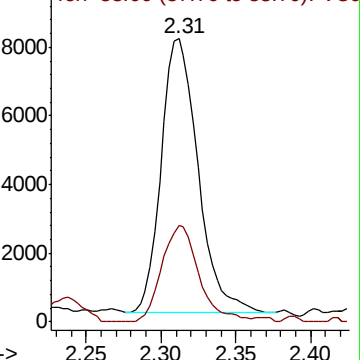
Ion Ratio Lower Upper

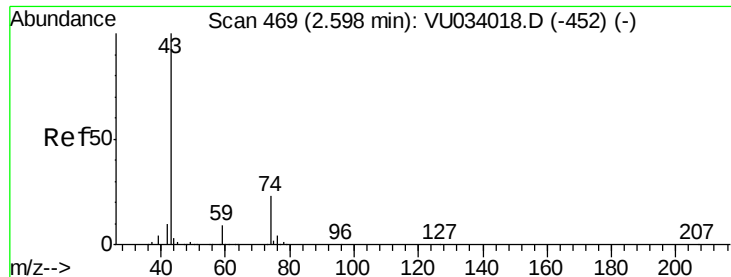
43 100

58 35.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034208.D (-358) (-)

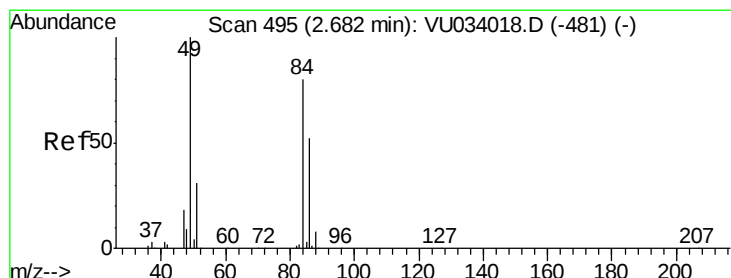
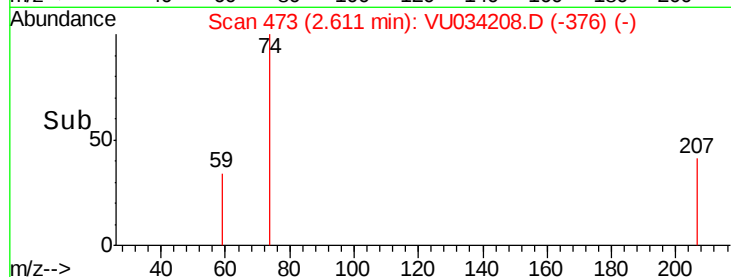
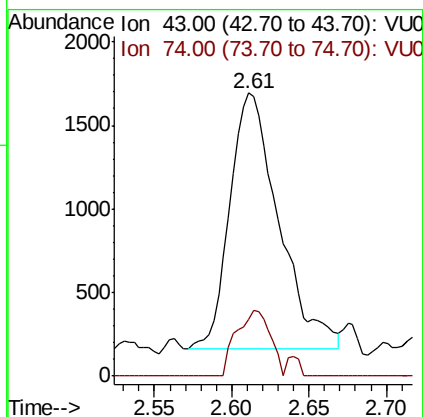
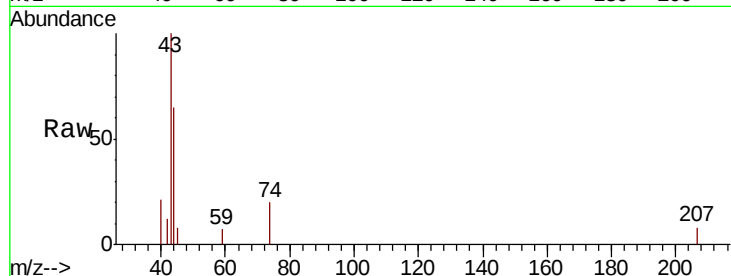




#18
Methyl Acetate
Concen: 0.462 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

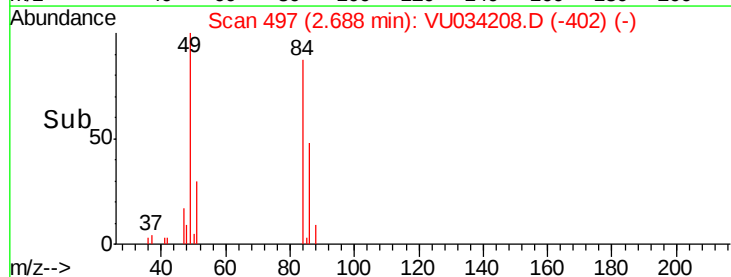
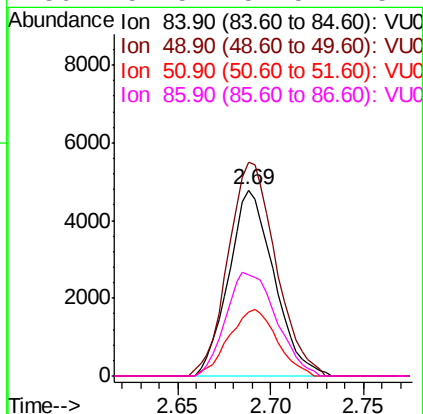
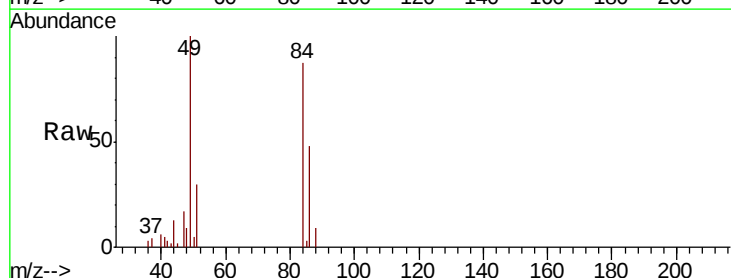
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(0)

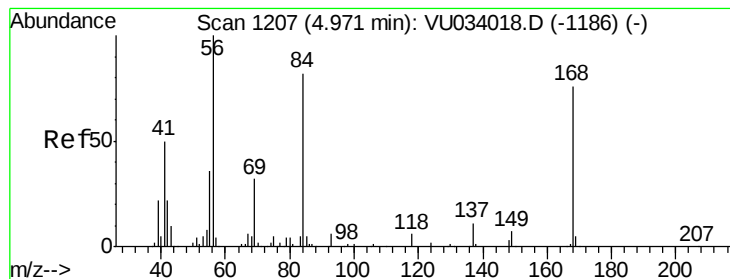
Tgt Ion: 43 Resp: 3351
Ion Ratio Lower Upper
43 100
74 17.7 19.2 28.8#



#20
Methylene Chloride
Concen: 1.532 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Tgt Ion: 84 Resp: 8133
Ion Ratio Lower Upper
84 100
49 114.8 100.2 150.4
51 34.7 30.8 46.2
86 54.5 52.5 78.7





#31

Cyclohexane

Concen: 0.937 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4-(0)

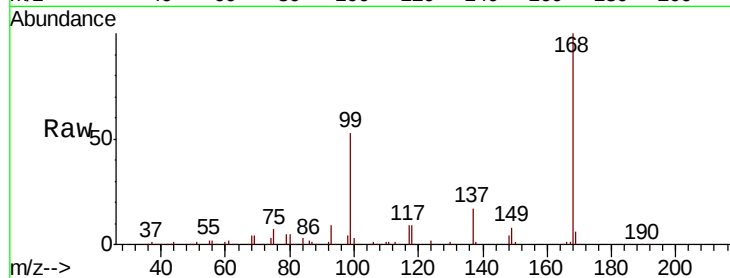
Tgt Ion: 56 Resp: 7691

Ion Ratio Lower Upper

56 100

69 178.4 25.4 38.0#

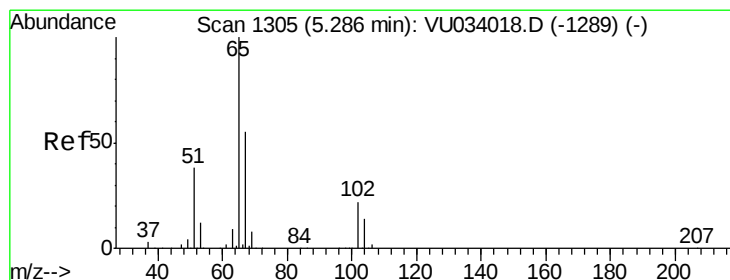
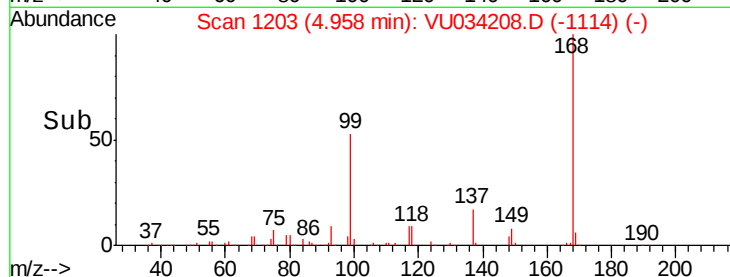
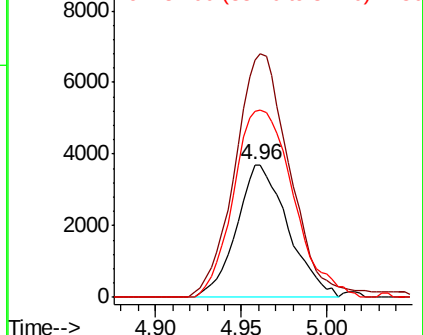
84 140.4 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034208.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034208.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034208.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.404 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034208.D

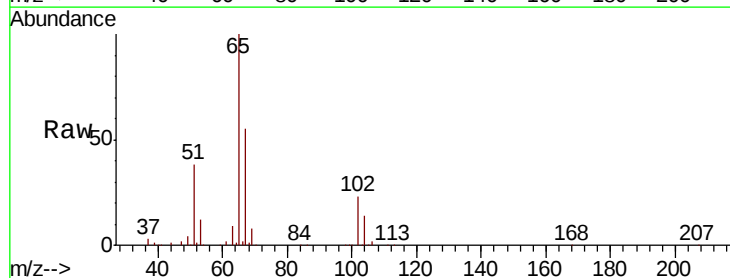
Acq: 02 Sep 2019 17:32

Tgt Ion: 65 Resp: 277017

Ion Ratio Lower Upper

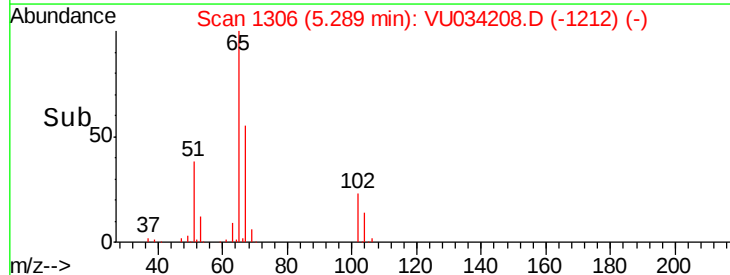
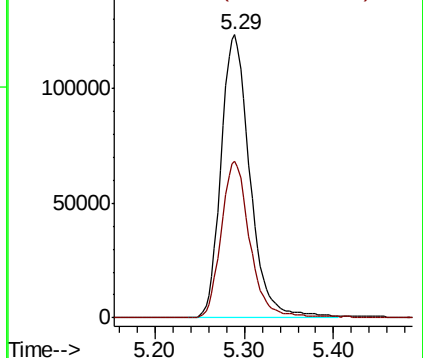
65 100

67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034208.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034208.D (-1289) (-)

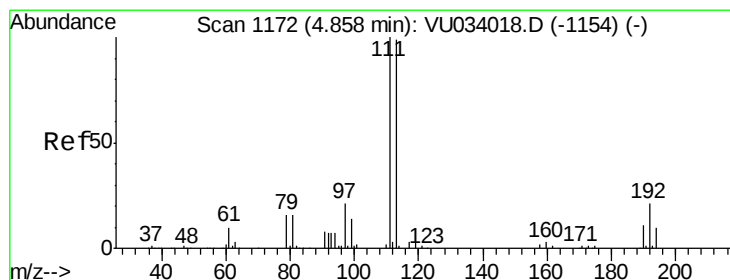
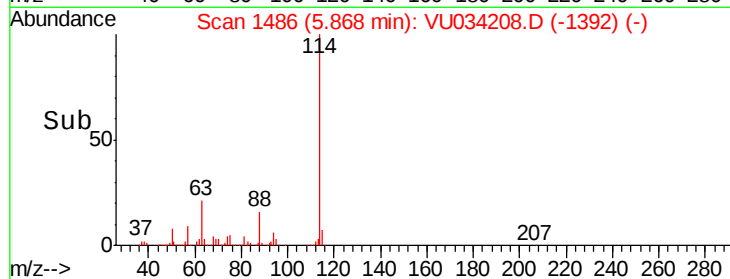
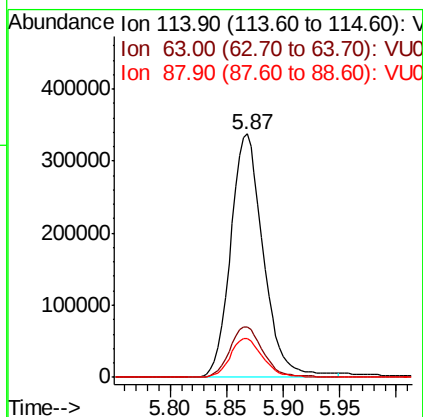
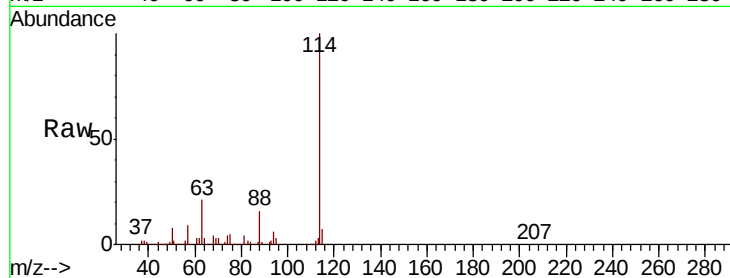




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

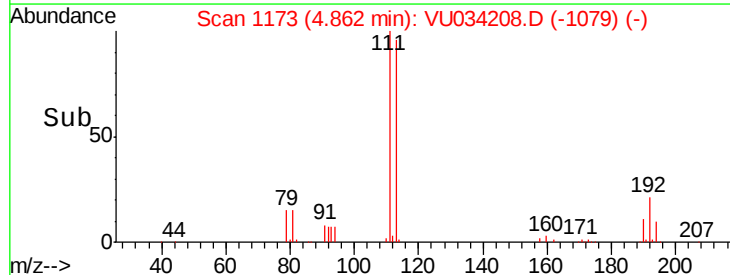
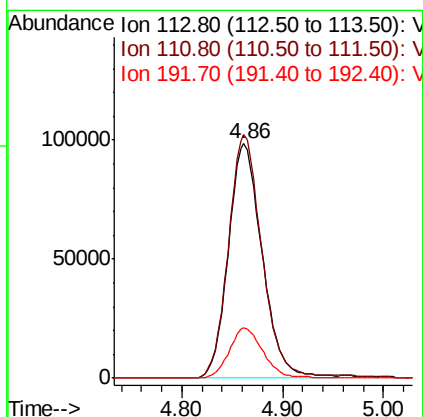
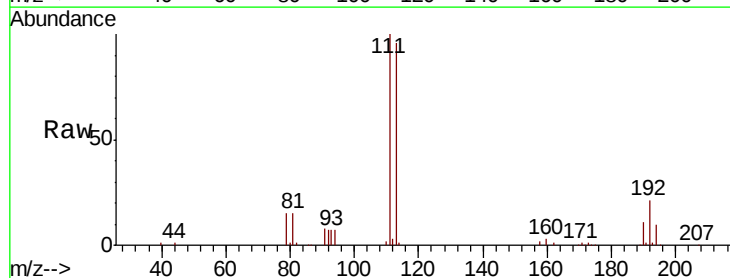
Instrument :
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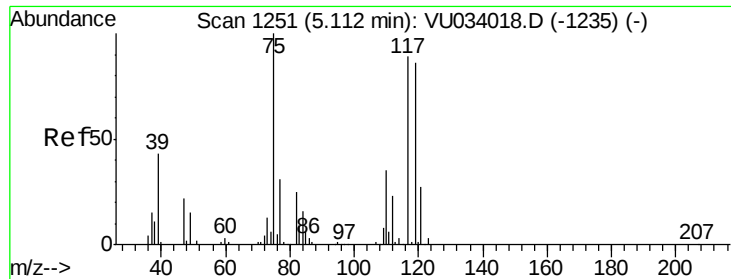
Tgt Ion:114 Resp: 680076
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 16.2 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 48.891 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

Tgt Ion:113 Resp: 230615
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.7 122.5
 192 21.3 17.1 25.7

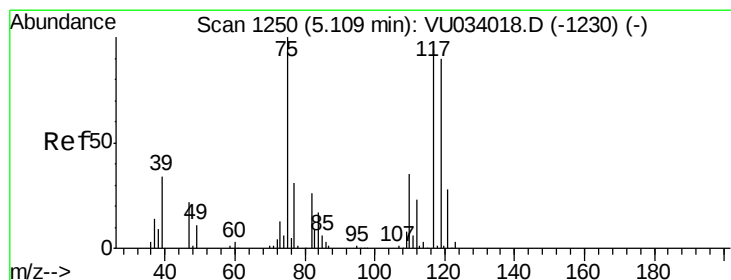
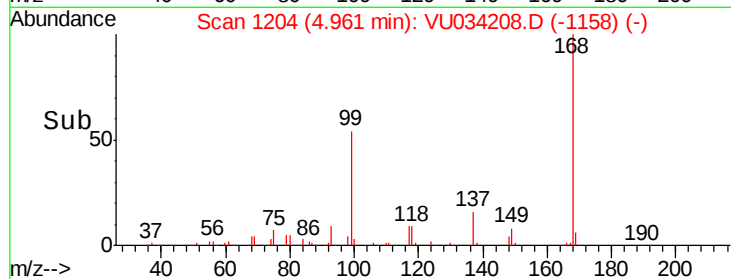
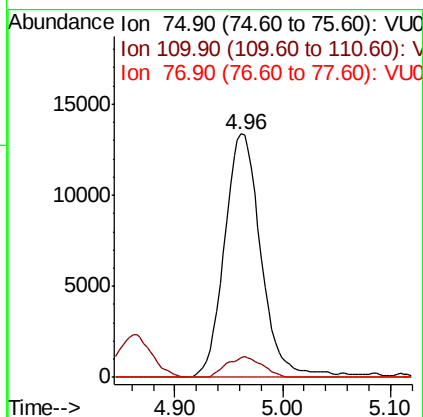
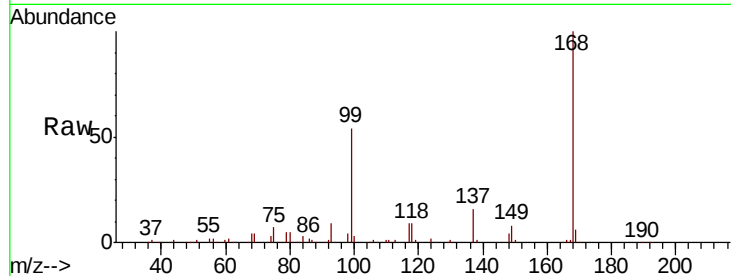




#36
 1,1-Dichloropropene
 Concen: 4.884 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

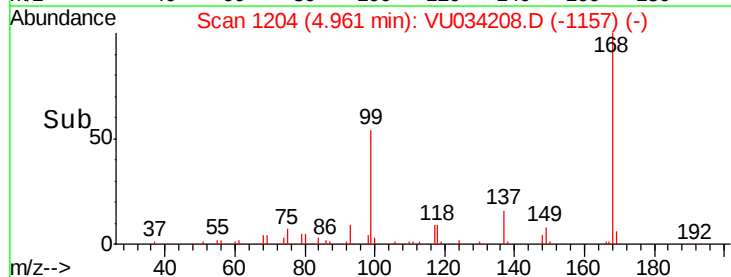
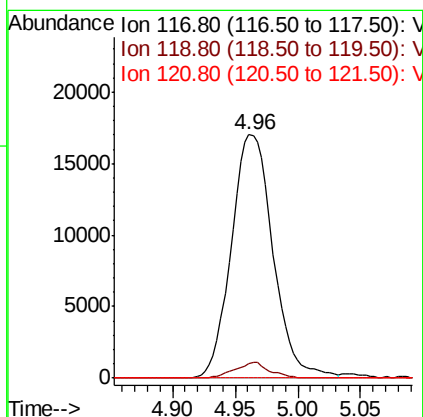
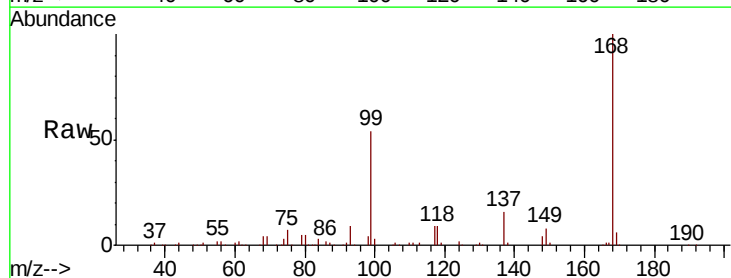
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E4-(0)

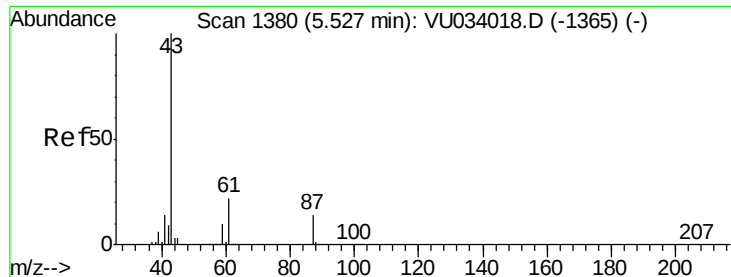
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.337 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.0	115.4#
121	0.0	23.9	35.9#

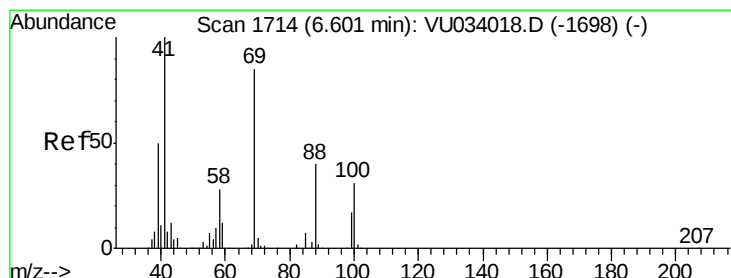
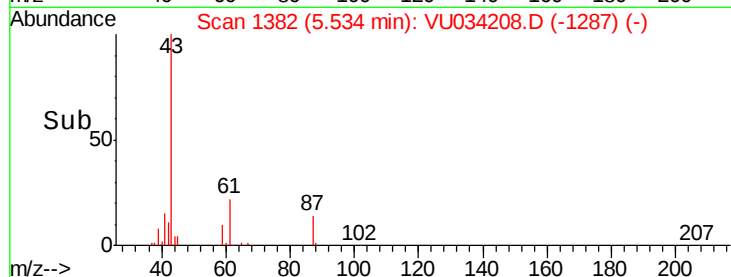
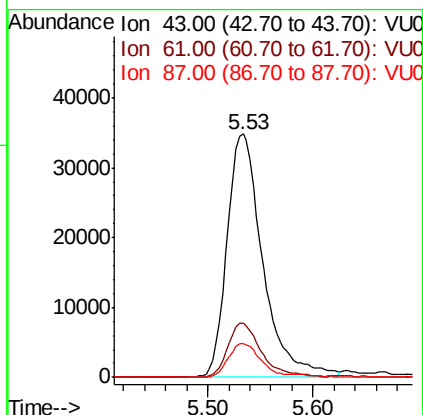
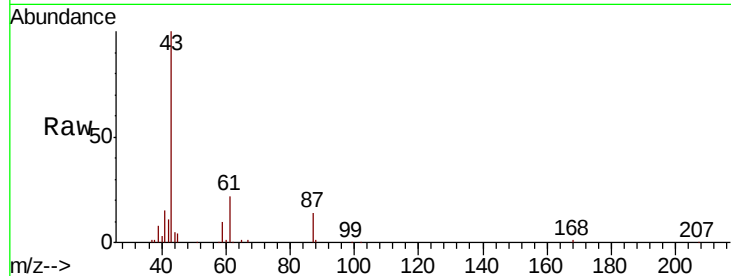




#43
Isopropyl Acetate
Concen: 7.493 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

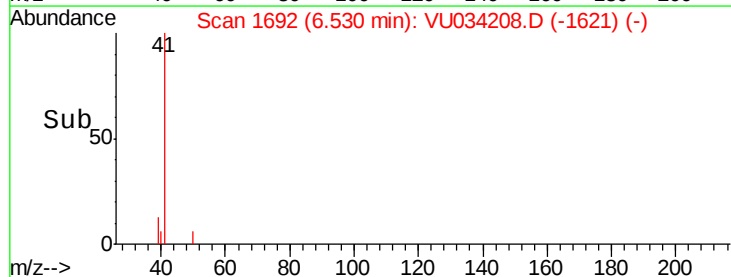
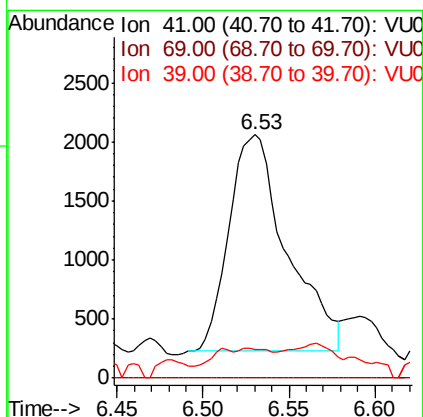
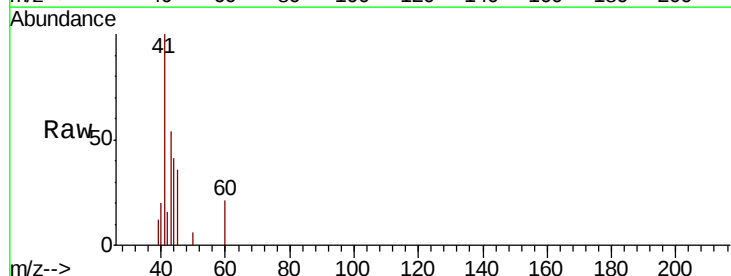
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(0)

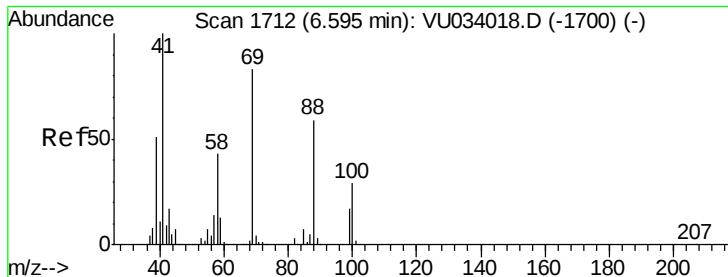
Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.8	17.2	25.8
87	13.3	10.8	16.2



#48
Methyl methacrylate
Concen: 0.811 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	69.5	104.3#
39	0.0	40.3	60.5#

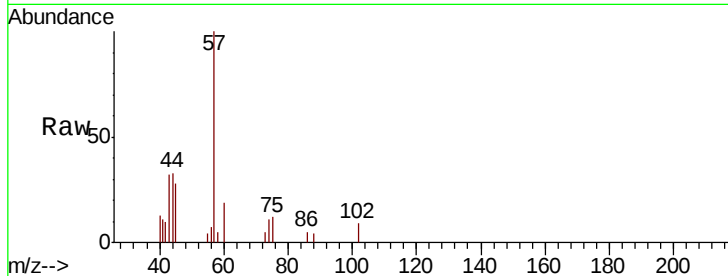




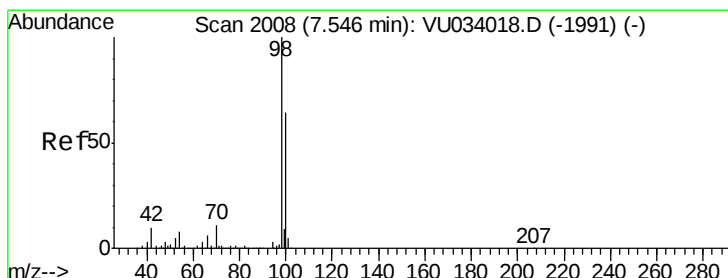
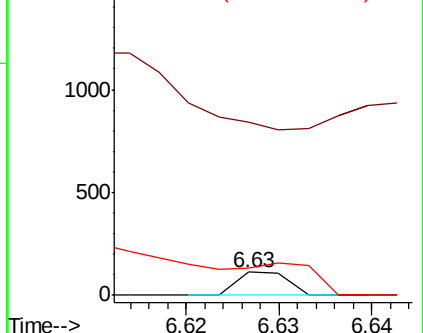
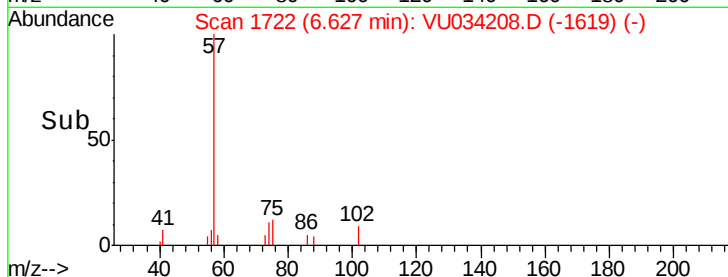
#49
1,4-Dioxane
Concen: 0.317 ug/l
RT: 6.63 min Scan# 1722
Delta R.T. 0.03 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(0)

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#

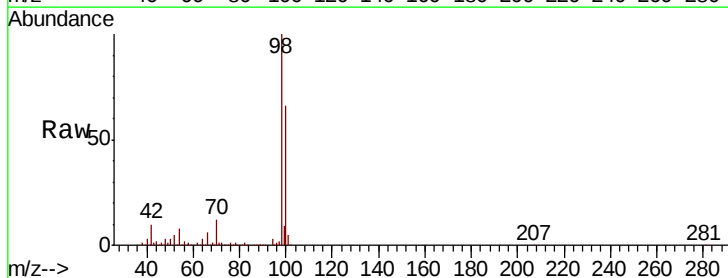


Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

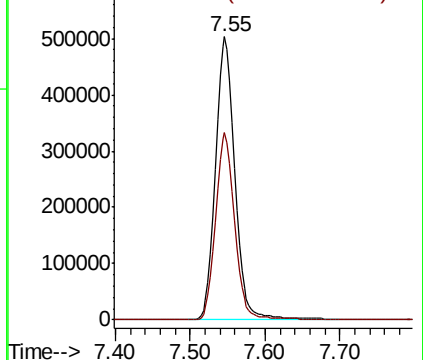
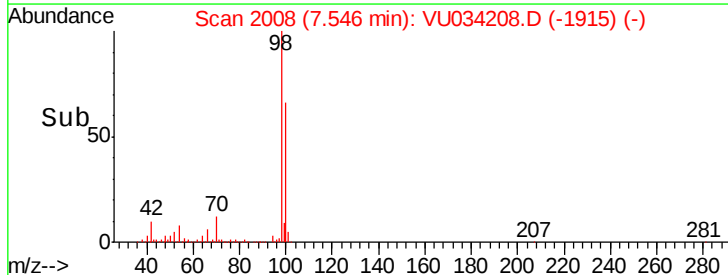


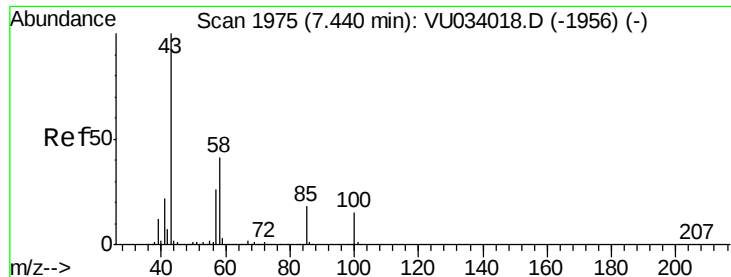
#50
Toluene-d8
Concen: 51.516 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Tgt Ion: 98 Resp: 909868
Ion Ratio Lower Upper
98 100
100 65.3 50.3 75.5



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

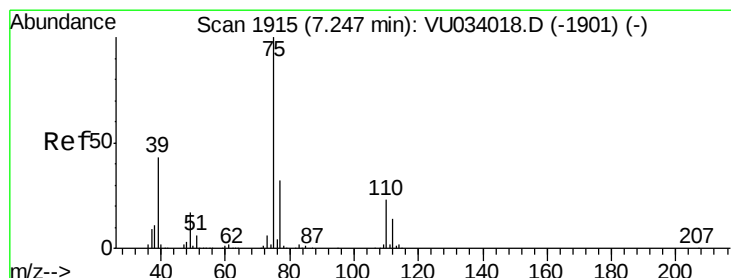
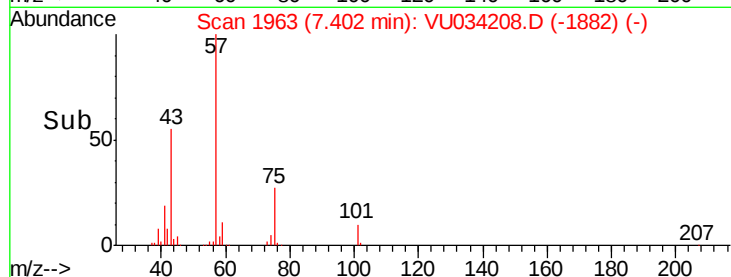
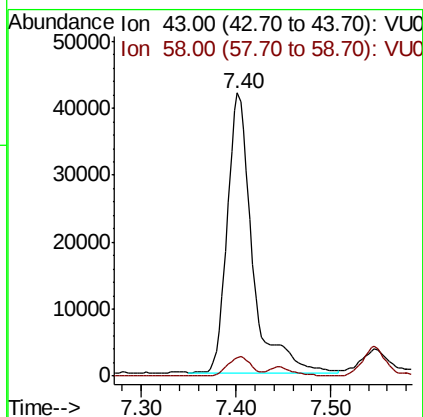
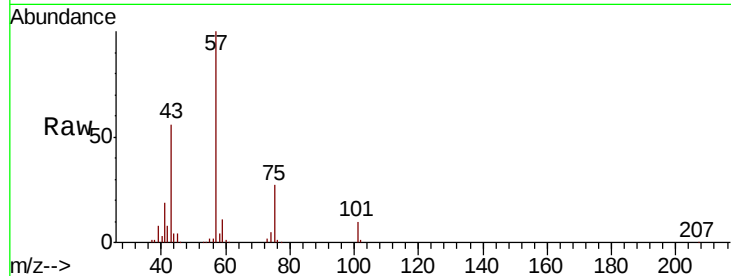




#51
 4-Methyl-2-Pentanone
 Concen: 10.231 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

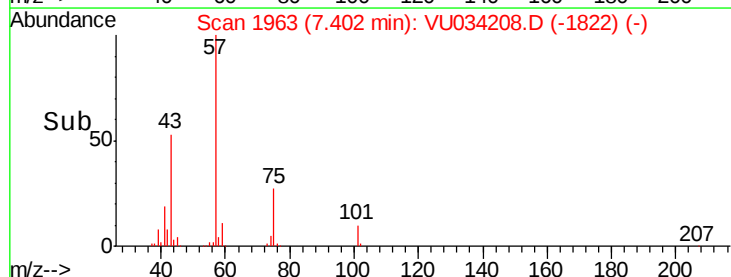
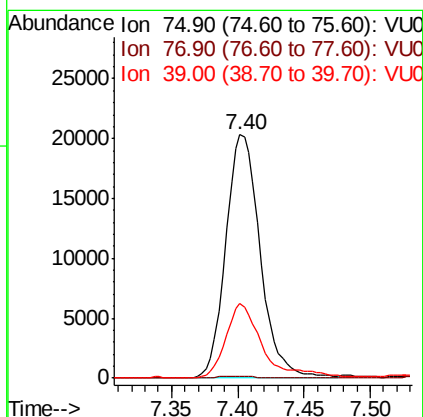
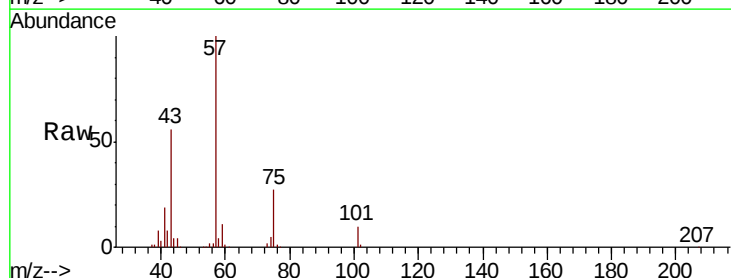
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E4-(0)

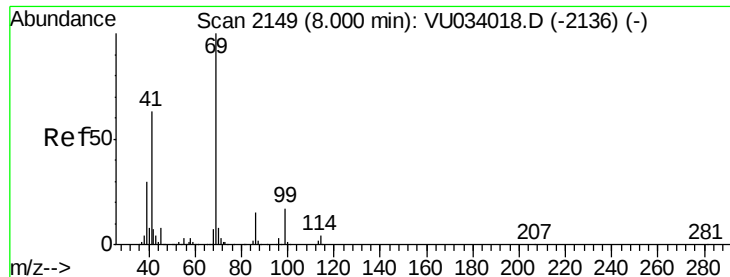
Tgt Ion: 43 Resp: 77432
 Ion Ratio Lower Upper
 43 100
 58 6.5 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.482 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034208.D
 Acq: 02 Sep 2019 17:32

Tgt Ion: 75 Resp: 36687
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.2 37.8#
 39 30.5 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.998 ug/l

RT: 7.90 min Scan# 2118

Delta R.T. -0.10 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4-(0)

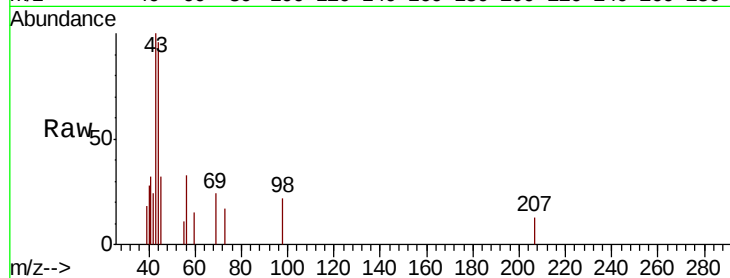
Tgt Ion: 69 Resp: 224

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

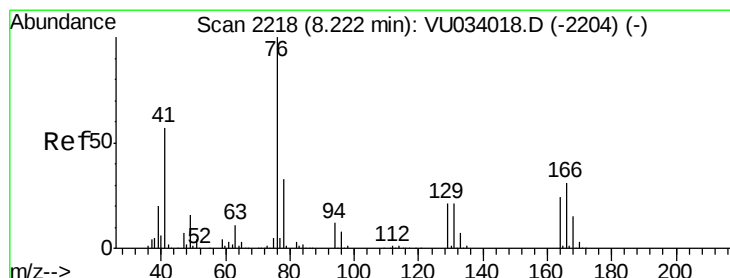
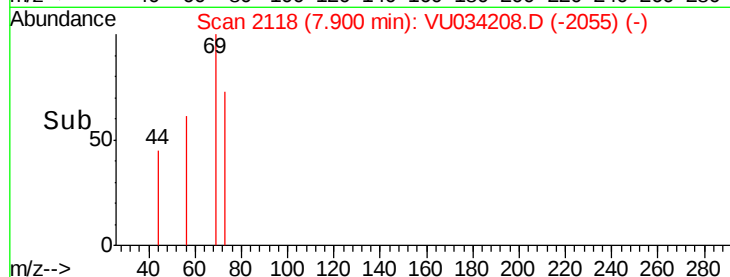
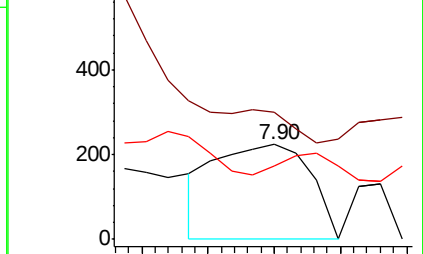
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034208.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU034208.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU034208.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.749 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034208.D

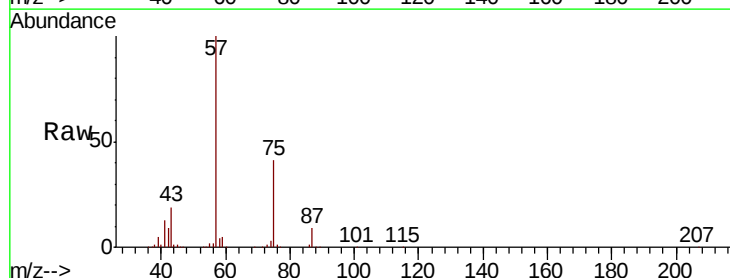
Acq: 02 Sep 2019 17:32

Tgt Ion: 76 Resp: 6448

Ion Ratio Lower Upper

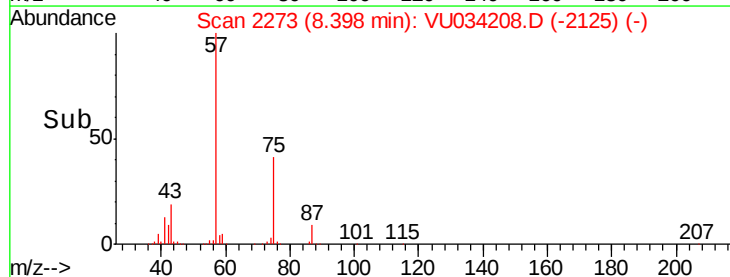
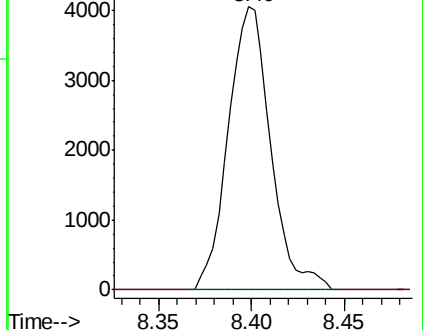
76 100

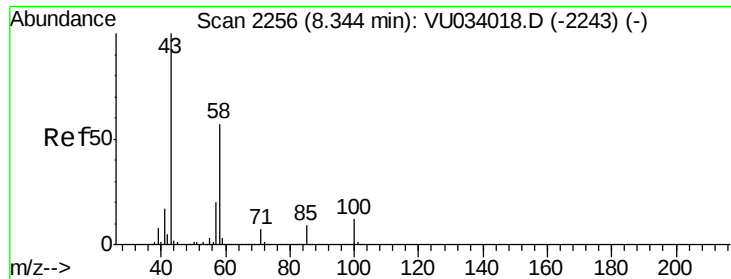
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034208.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034208.D (-2204) (-)





#59

2-Hexanone

Concen: 14.795 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

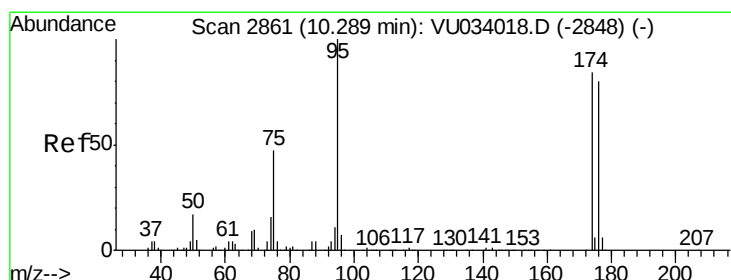
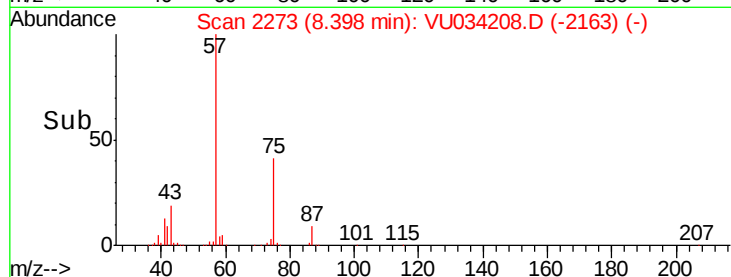
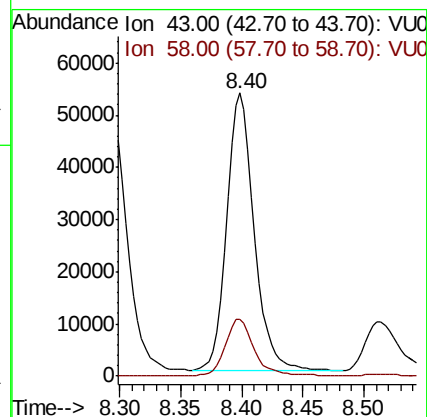
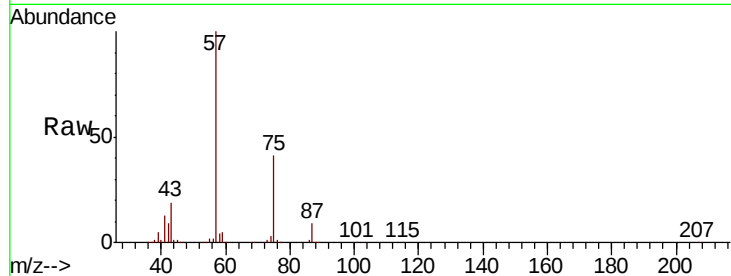
T16-17-E4-(0)

Tgt Ion: 43 Resp: 84530

Ion Ratio Lower Upper

43 100

58 22.2 28.4 85.3#



#62

4-Bromofluorobenzene

Concen: 45.760 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

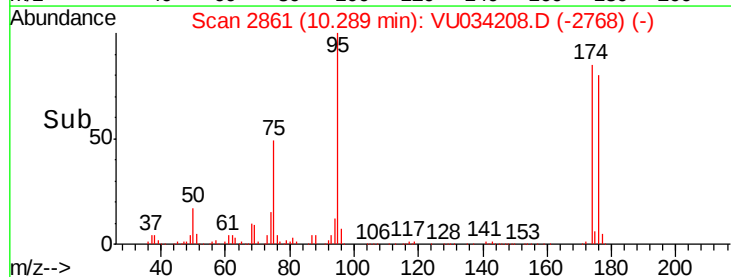
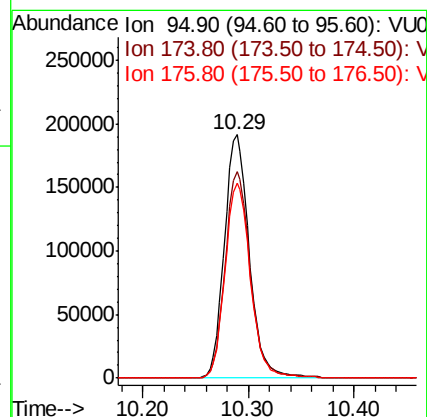
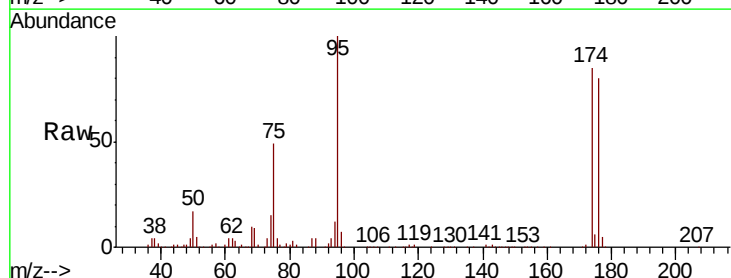
Tgt Ion: 95 Resp: 314390

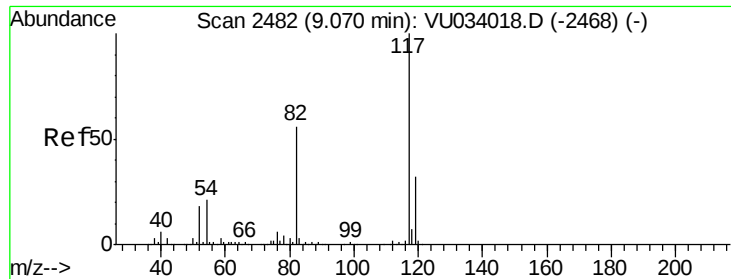
Ion Ratio Lower Upper

95 100

174 85.9 0.0 168.8

176 81.5 0.0 161.8

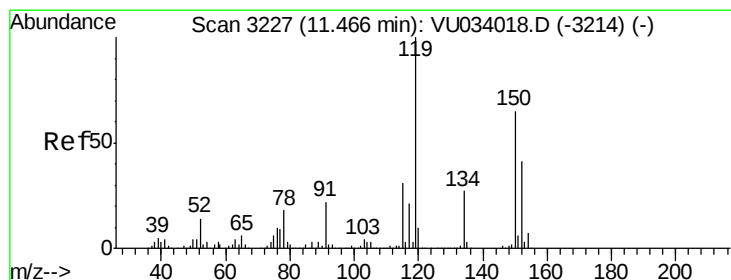
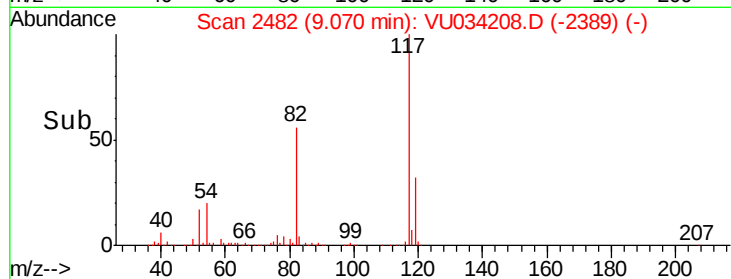
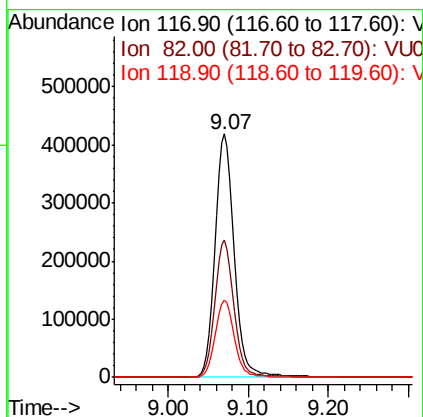
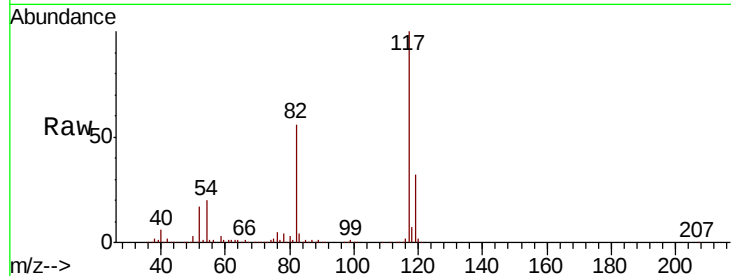




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

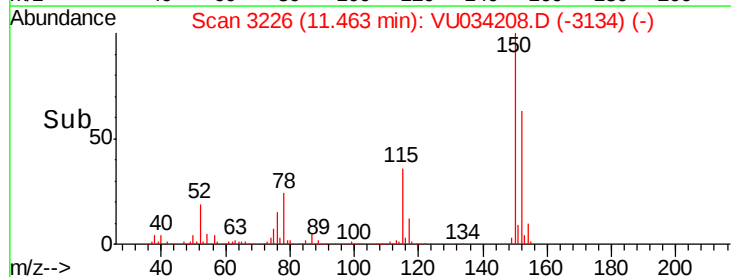
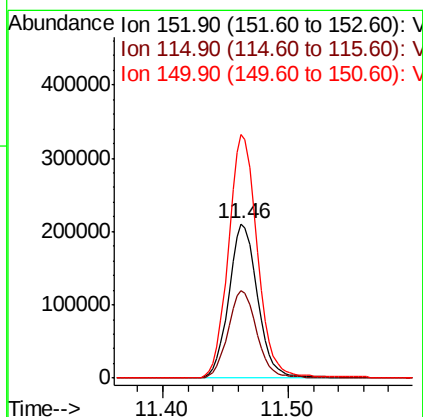
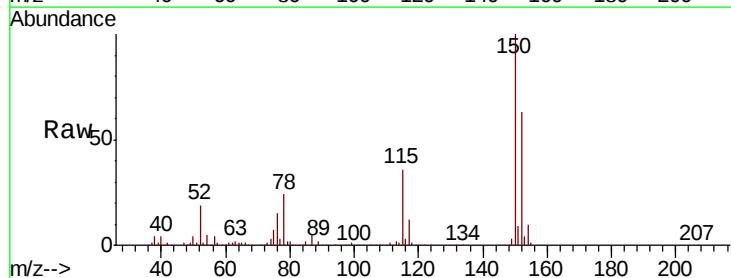
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(0)

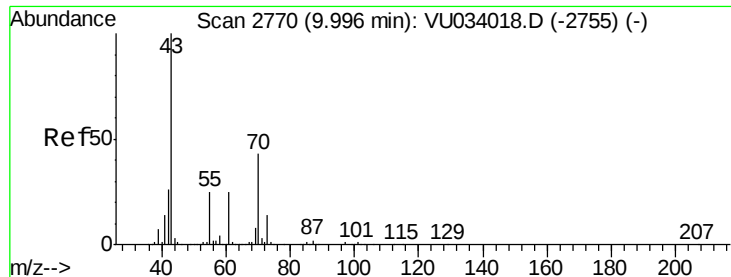
Tgt Ion:117 Resp: 703624
Ion Ratio Lower Upper
117 100
82 56.2 45.1 67.7
119 31.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Tgt Ion:152 Resp: 335837
Ion Ratio Lower Upper
152 100
115 56.7 41.1 123.3
150 159.0 0.0 348.8





#74

N-amyI acetate

Concen: 0.214 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034208.D

Acq: 02 Sep 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4(0)

Tgt Ion: 43 Resp: 2029

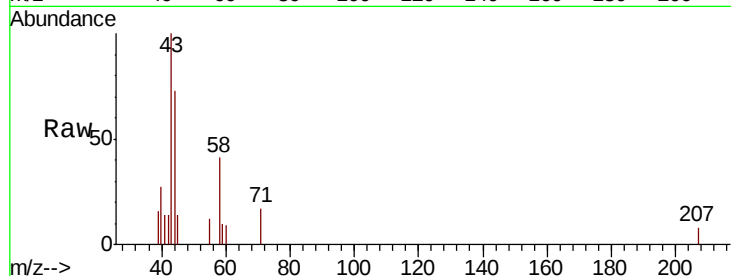
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 13.3 20.5 30.7#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

2000

1500

1000

500

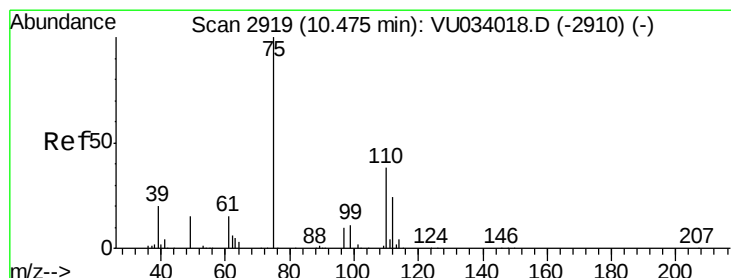
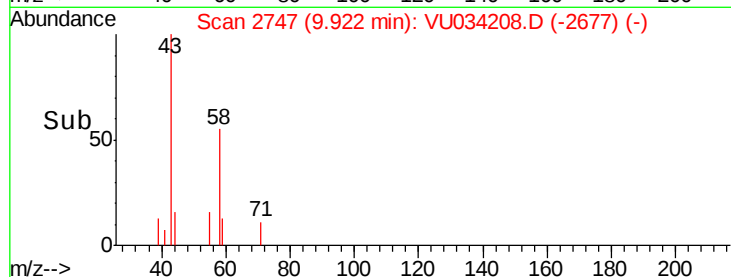
0

9.90

9.92

9.95

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.338 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034208.D

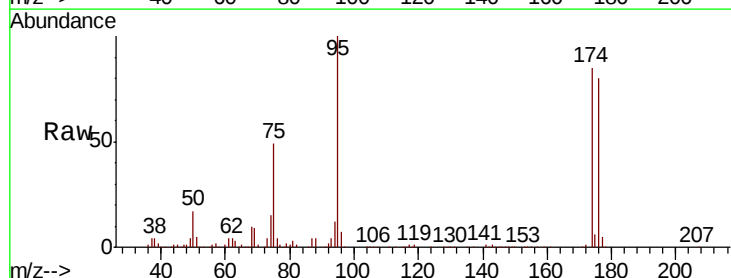
Acq: 02 Sep 2019 17:32

Tgt Ion: 75 Resp: 153943

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

100000

80000

60000

40000

20000

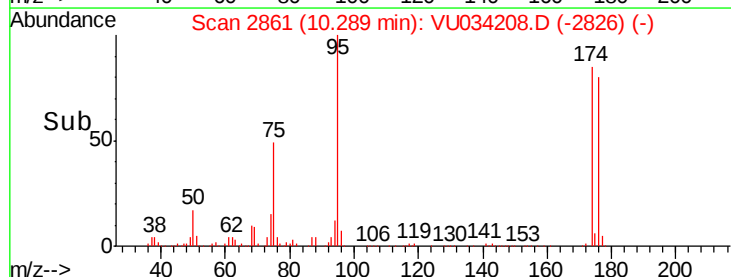
0

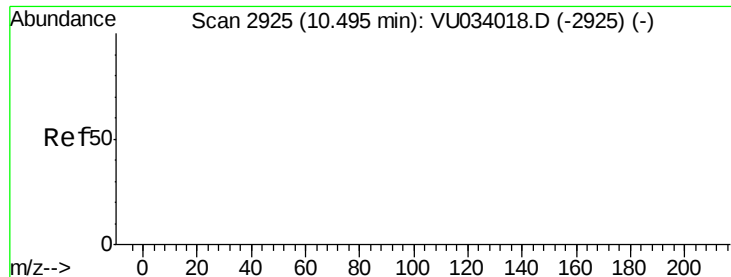
10.20

10.29

10.40

Time-->

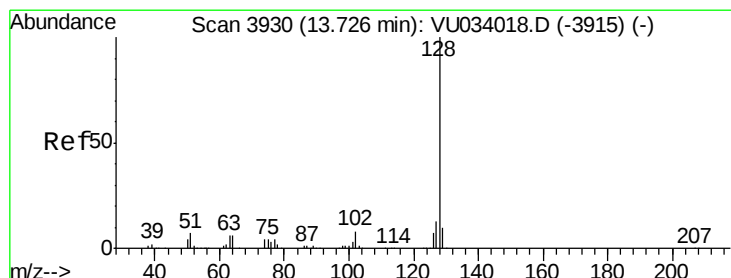
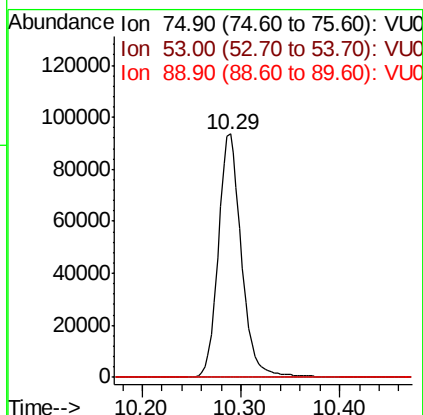
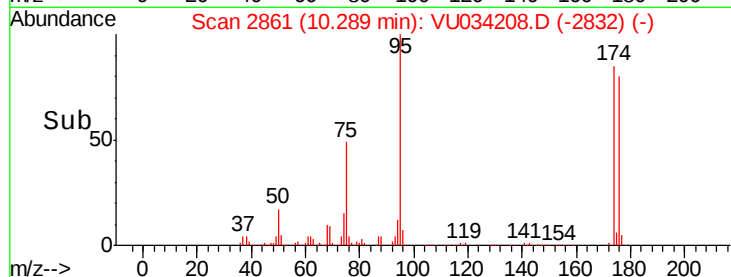
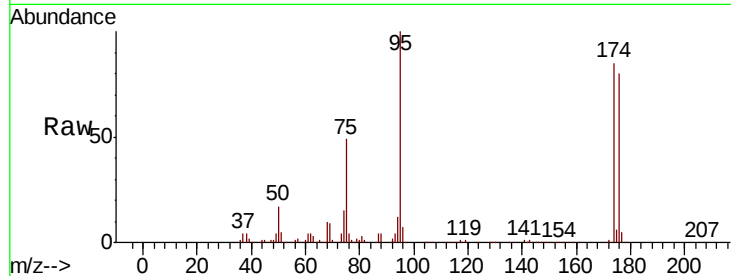




#81
trans-1,4-Dichloro-2-butene
Concen: 68.483 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(0)

Tgt Ion: 75 Resp: 153943
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.792 ug/l
RT: 13.79 min Scan# 3951
Delta R.T. 0.07 min
Lab File: VU034208.D
Acq: 02 Sep 2019 17:32

Tgt Ion: 128 Resp: 46
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

