

Data File : VU033991.D
Acq On : 27 Aug 2019 22:41
Operator : JC/SP
Sample : K4516-28
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T1-S-E-(0)

Quant Time: Aug 28 04:08:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 2019
Response via : Initial Calibration

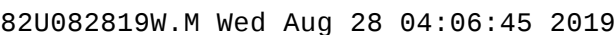
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	435448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	698233	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	679084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	297212	50.00	ug/l	0.00

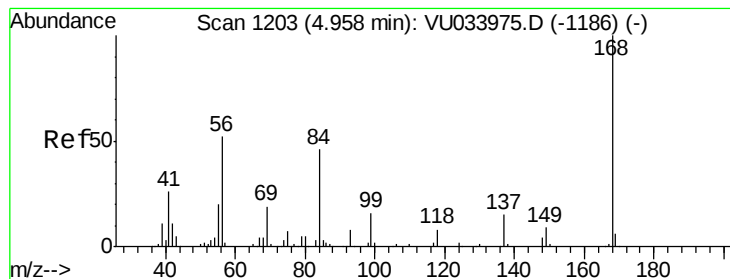
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	282685	58.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.86%	
35) Dibromofluoromethane	4.86	113	231596	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
50) Toluene-d8	7.55	98	921810	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
62) 4-Bromofluorobenzene	10.29	95	278811	41.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.96%	

Target Compounds					Qvalue	
3) Chloromethane	1.32	50	3378	1.611	ug/l	96
5) Bromomethane	1.62	94	902	0.339	ug/l #	75
6) Chloroethane	1.71	64	627	0.241	ug/l #	44
8) Diethyl Ether	2.09	74	825	0.378	ug/l	91
11) Tert butyl alcohol	2.82	59	4703	3.753	ug/l #	85
16) Acetone	2.31	43	8797	3.799	ug/l	99
18) Methyl Acetate	2.61	43	8709	1.527	ug/l	91
20) Methylene Chloride	2.69	84	17781	3.619	ug/l #	86
31) Cyclohexane	4.96	56	8788	1.232	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33807	5.286	ug/l #	48
38) Carbon Tetrachloride	4.96	117	41082	6.303	ug/l #	15
43) Isopropyl Acetate	5.53	43	85745	8.718	ug/l	96
48) Methyl methacrylate	6.53	41	4790	1.024	ug/l #	11
49) 1,4-Dioxane	6.68	88	146	1.138	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	82311	12.138	ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	38202	4.850	ug/l #	65
56) Ethyl methacrylate	8.13	69	2565	2.820	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	6951	0.842	ug/l #	43
59) 2-Hexanone	8.40	43	91285	17.514	ug/l #	50
74) N-amyl acetate	9.92	43	1641	0.229	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	133234	22.498	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.29	75	133234	64.441	ug/l #	100
95) Naphthalene	13.85	128	21	2.084	ug/l #	70

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

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Quant Title : SW846 8260
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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: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

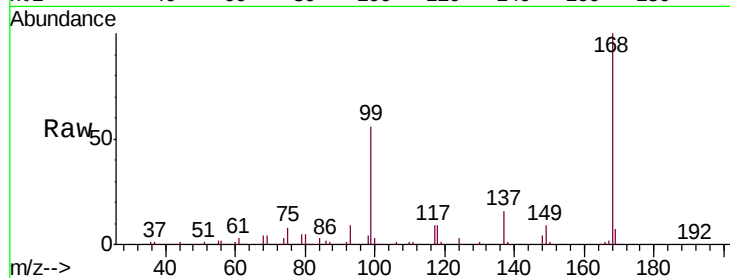
T1-S-E(0)

Tgt Ion:168 Resp: 435448

Ion Ratio Lower Upper

168 100

99 56.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VU033975.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU033975.D (-1186) (-)

4.96

200000

150000

100000

50000

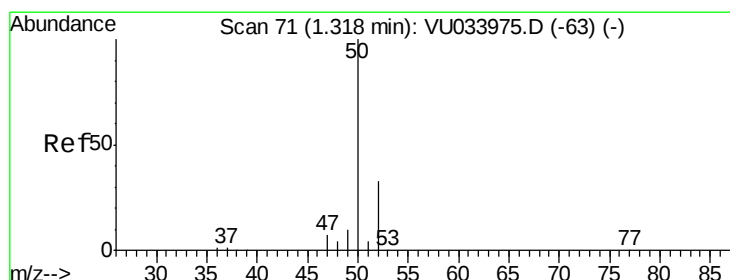
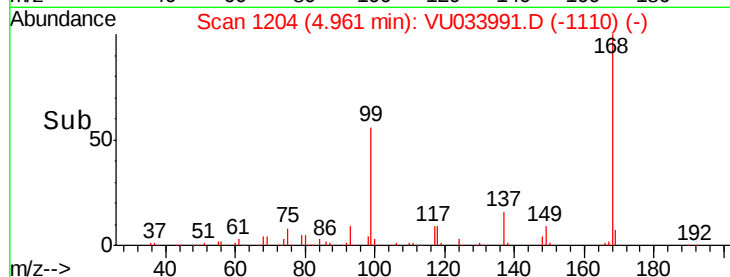
0

Time-->

4.90

5.00

5.10



#3

Chloromethane

Concen: 1.611 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU033991.D

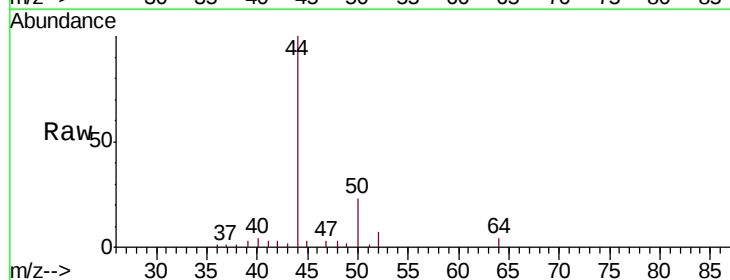
Acq: 27 Aug 2019 22:41

Tgt Ion: 50 Resp: 3378

Ion Ratio Lower Upper

50 100

52 30.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VU033975.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU033975.D (-63) (-)

1.32

3000

2500

2000

1500

1000

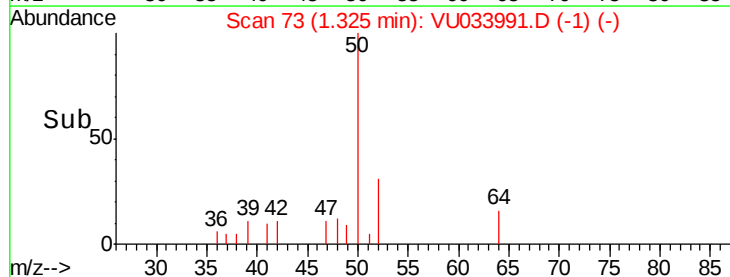
500

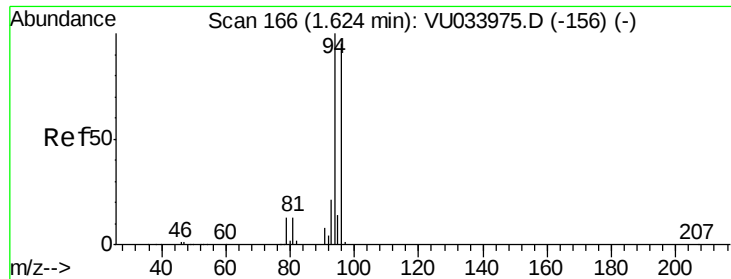
0

Time-->

1.30

1.35





#5

Bromomethane

Concen: 0.339 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

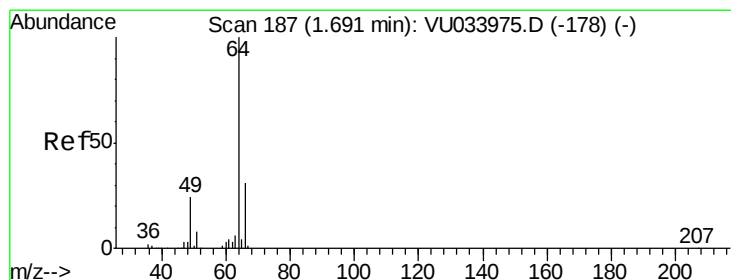
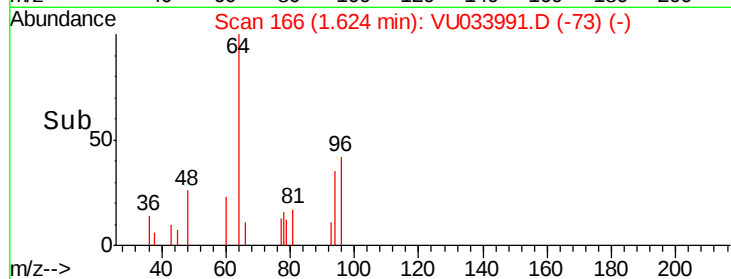
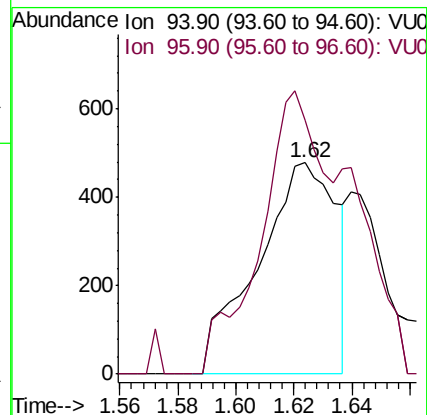
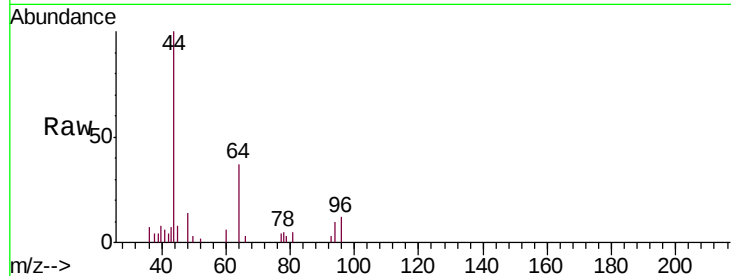
T1-S-E(0)

Tgt Ion: 94 Resp: 902

Ion Ratio Lower Upper

94 100

96 120.1 76.3 114.5#



#6

Chloroethane

Concen: 0.241 ug/l

RT: 1.71 min Scan# 194

Delta R.T. 0.02 min

Lab File: VU033991.D

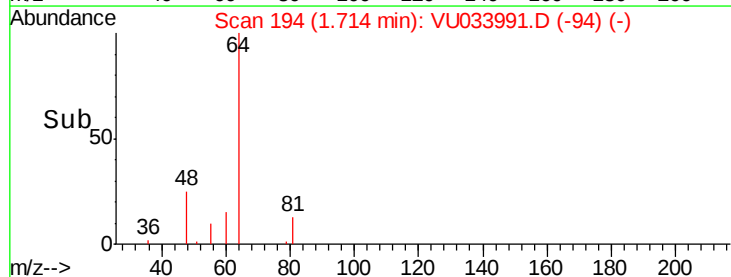
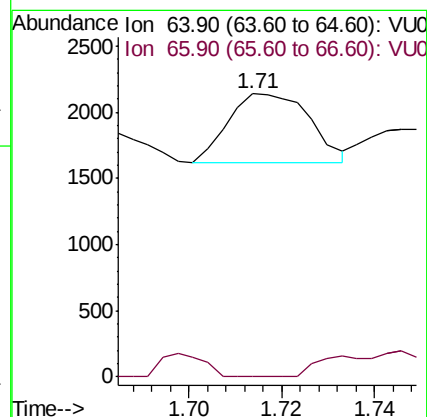
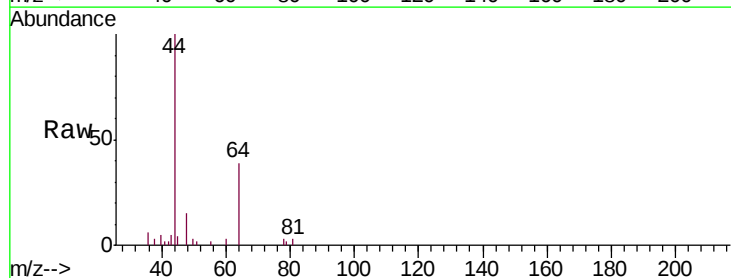
Acq: 27 Aug 2019 22:41

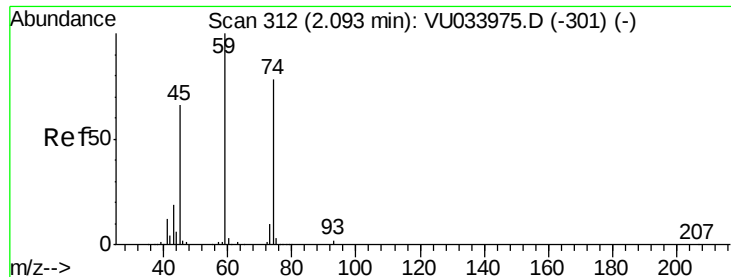
Tgt Ion: 64 Resp: 627

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#





#8

Diethyl Ether

Concen: 0.378 ug/l

RT: 2.09 min Scan# 311

Delta R.T. -0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

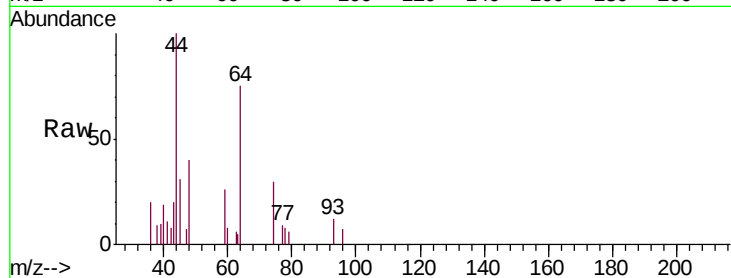
T1-S-E(0)

Tgt Ion: 74 Resp: 825

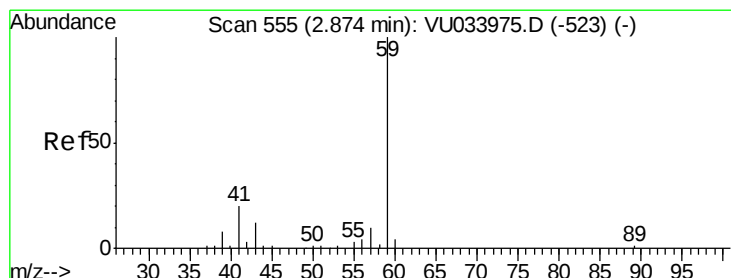
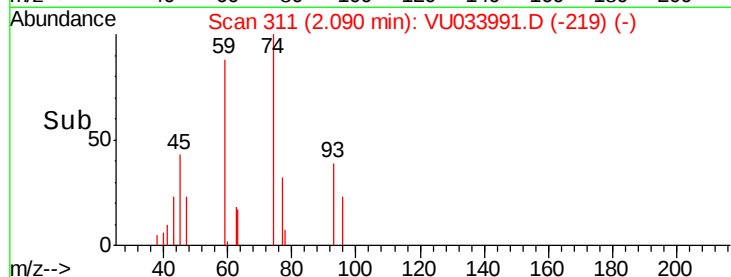
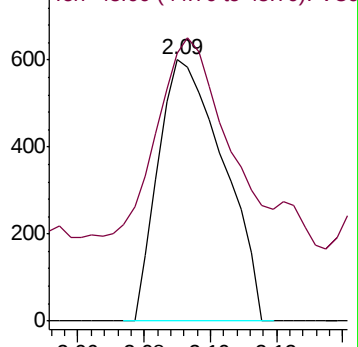
Ion Ratio Lower Upper

74 100

45 93.8 42.8 128.4



Abundance Ion 74.00 (73.70 to 74.70): VU033975.D (-301) (-)



#11

Tert butyl alcohol

Concen: 3.753 ug/l

RT: 2.82 min Scan# 539

Delta R.T. -0.05 min

Lab File: VU033991.D

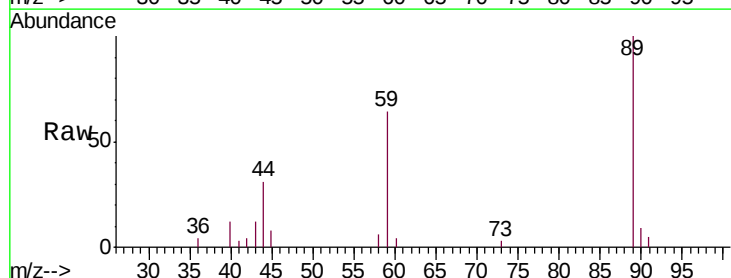
Acq: 27 Aug 2019 22:41

Tgt Ion: 59 Resp: 4703

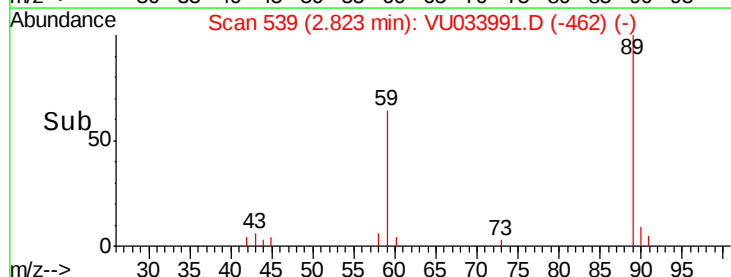
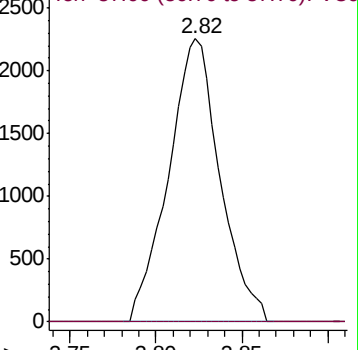
Ion Ratio Lower Upper

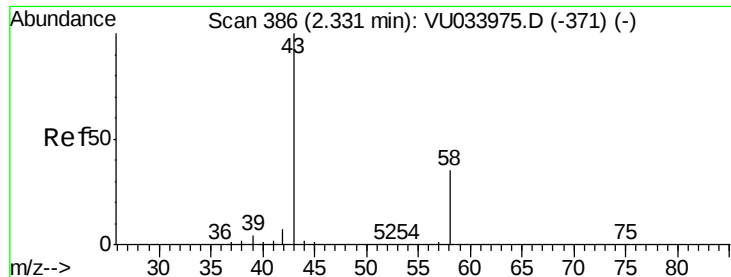
59 100

57 0.0 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VU033975.D (-523) (-)

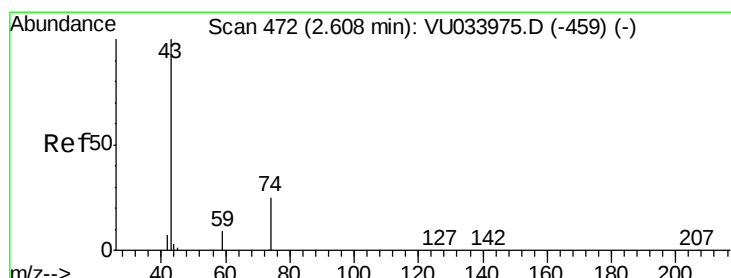
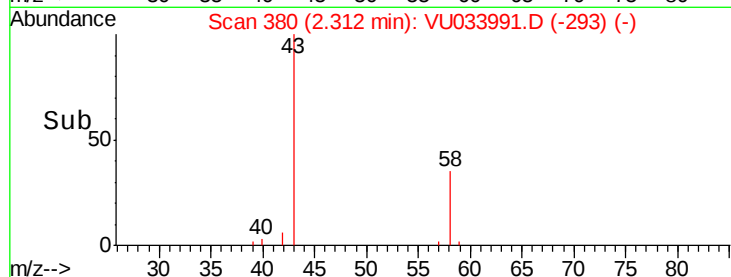
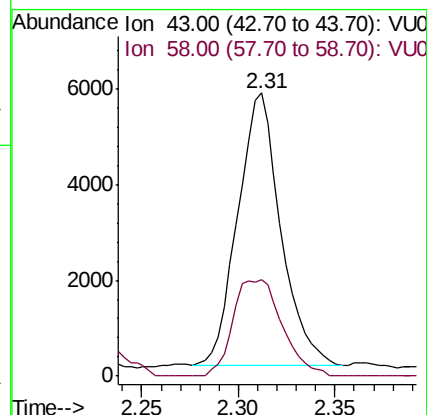
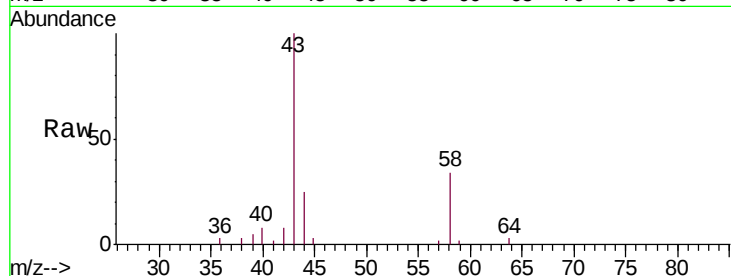




#16
Acetone
Concen: 3.799 ug/l
RT: 2.31 min Scan# 380
Delta R.T. -0.02 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

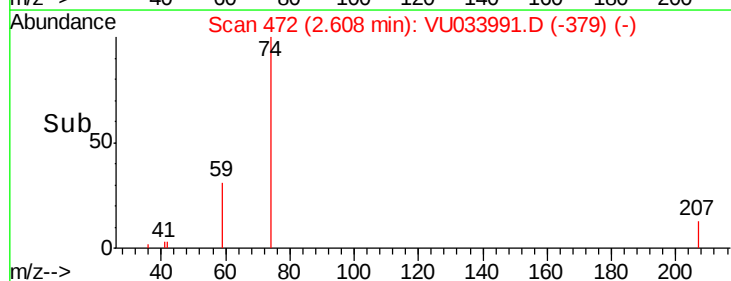
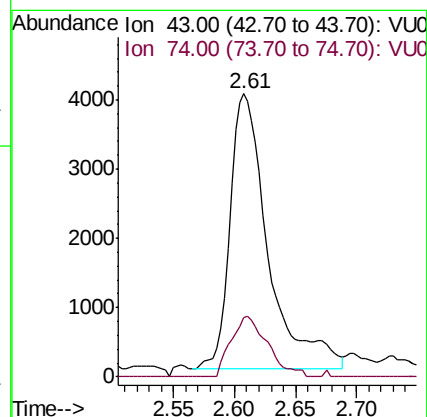
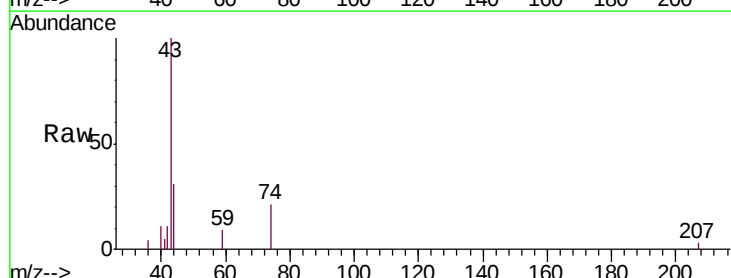
Instrument :
MSVOA_U
ClientSampleId :
T1-S-E(0)

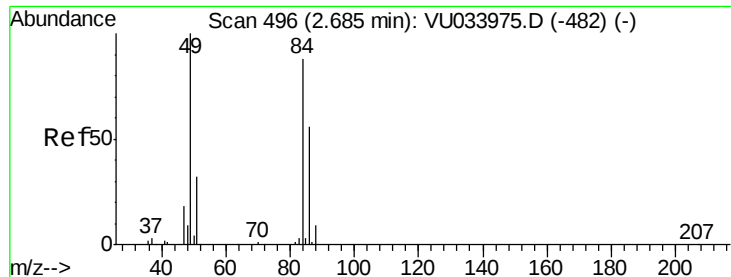
Tgt Ion: 43 Resp: 8797
Ion Ratio Lower Upper
43 100
58 35.3 28.0 42.0



#18
Methyl Acetate
Concen: 1.527 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

Tgt Ion: 43 Resp: 8709
Ion Ratio Lower Upper
43 100
74 21.0 20.5 30.7

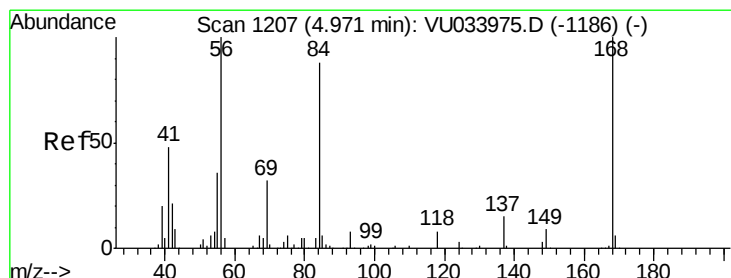
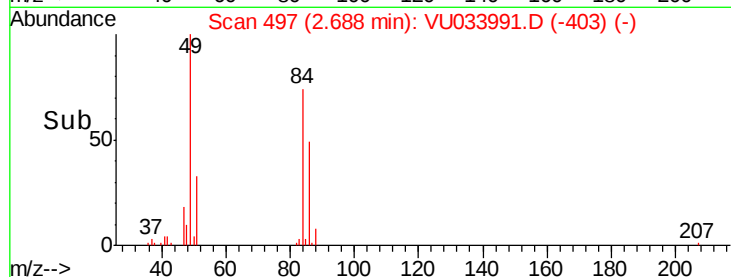
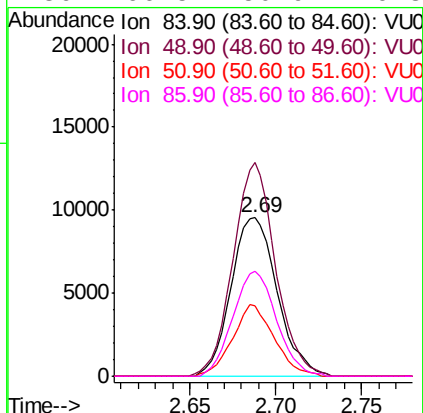
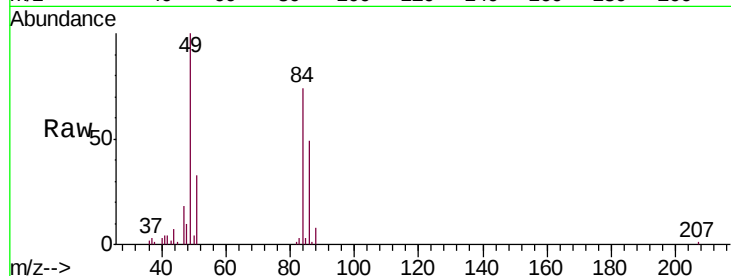




#20
Methylene Chloride
Concen: 3.619 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

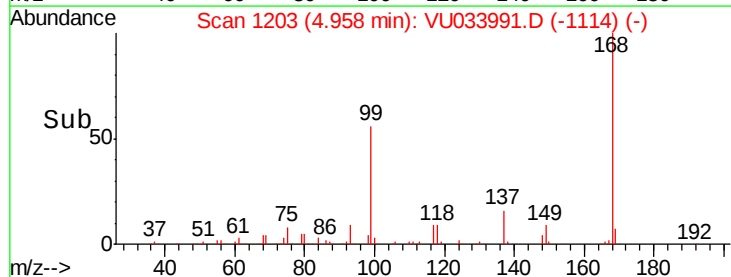
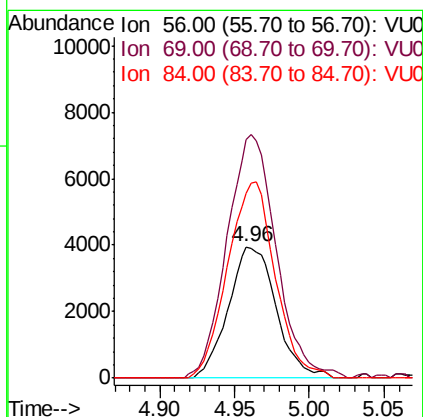
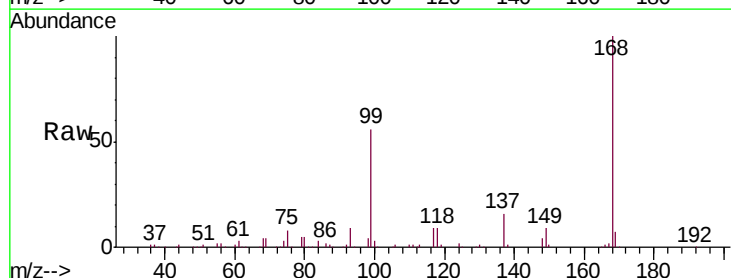
Instrument :
MSVOA_U
ClientSampleId :
T1-S-E-(0)

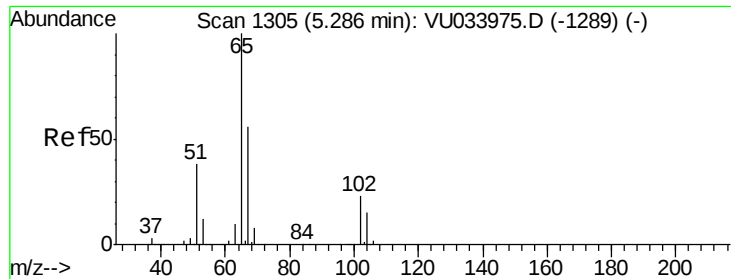
Tgt Ion: 84 Resp: 17781
Ion Ratio Lower Upper
84 100
49 134.8 91.3 136.9
51 44.3 28.9 43.3#
86 66.5 50.9 76.3



#31
Cyclohexane
Concen: 1.232 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

Tgt Ion: 56 Resp: 8788
Ion Ratio Lower Upper
56 100
69 178.4 25.9 38.9#
84 140.8 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 58.435 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

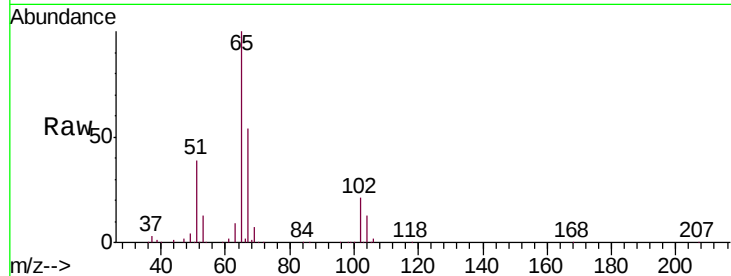
T1-S-E-(0)

Tgt Ion: 65 Resp: 282685

Ion Ratio Lower Upper

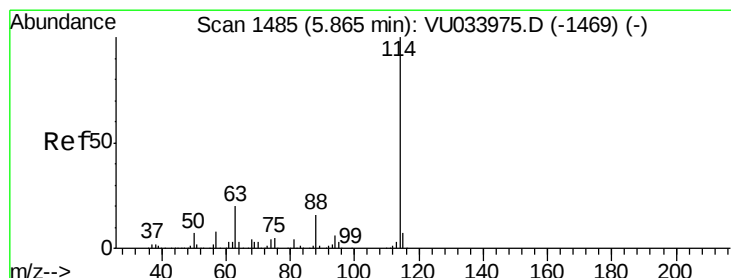
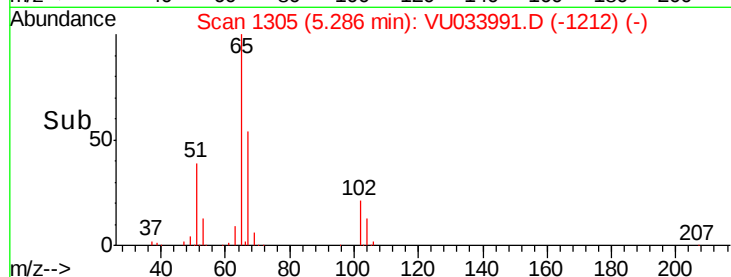
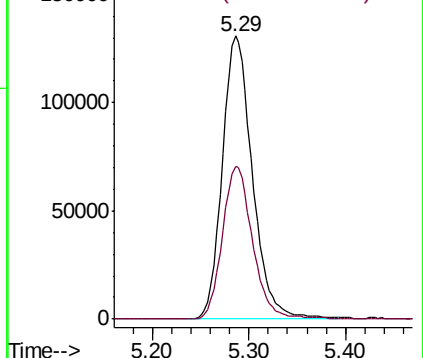
65 100

67 54.2 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU033991.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU033991.D (-1212) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

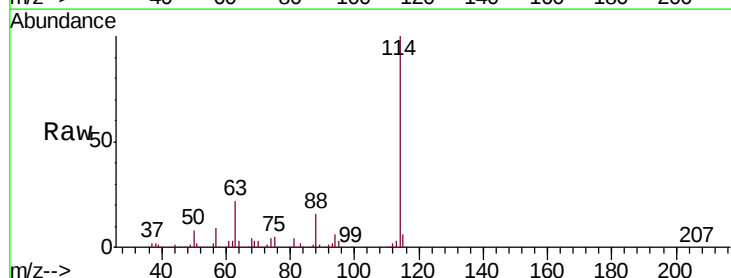
Tgt Ion: 114 Resp: 698233

Ion Ratio Lower Upper

114 100

63 21.6 0.0 39.0

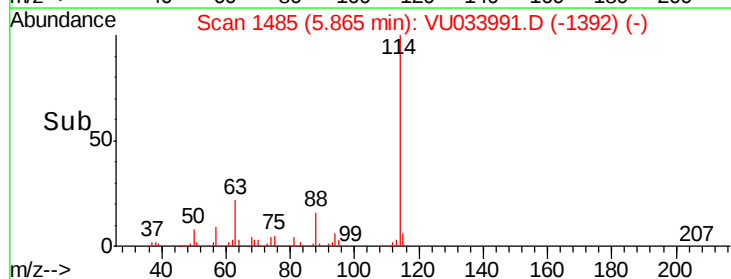
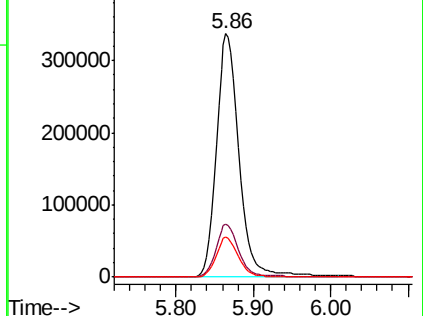
88 16.2 0.0 31.2

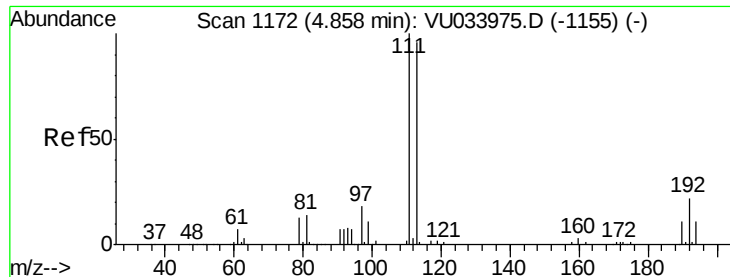


Abundance Ion 113.90 (113.60 to 114.60): VU033991.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU033991.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU033991.D (-1392) (-)

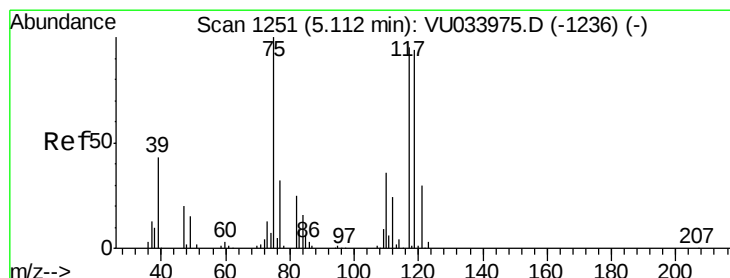
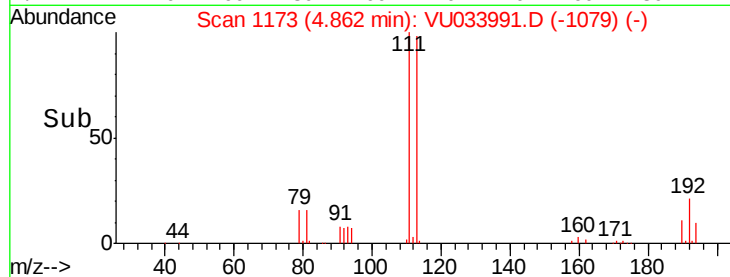
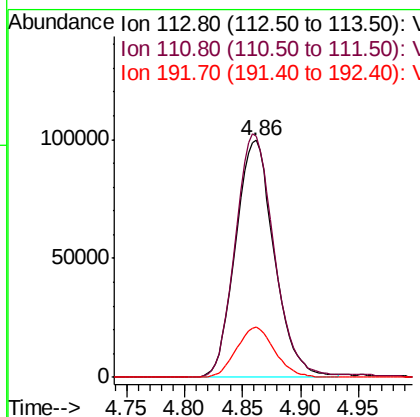
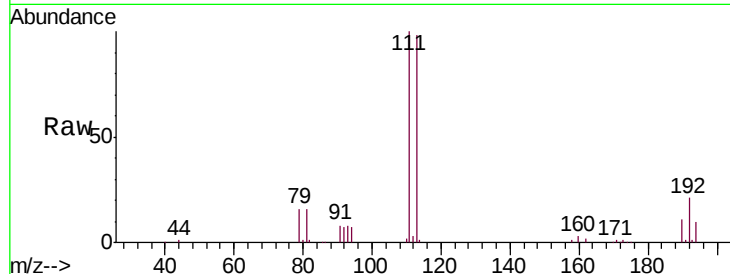




#35
 Dibromofluoromethane
 Concen: 49.344 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

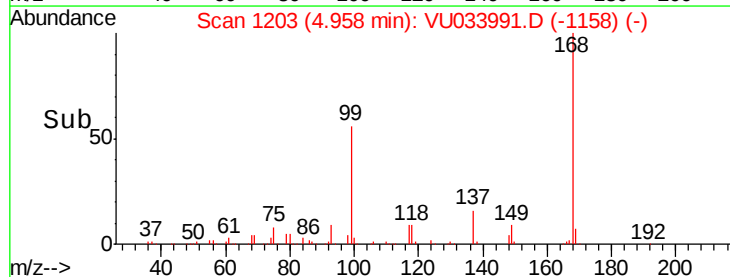
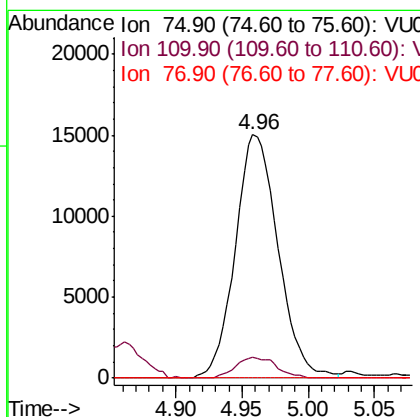
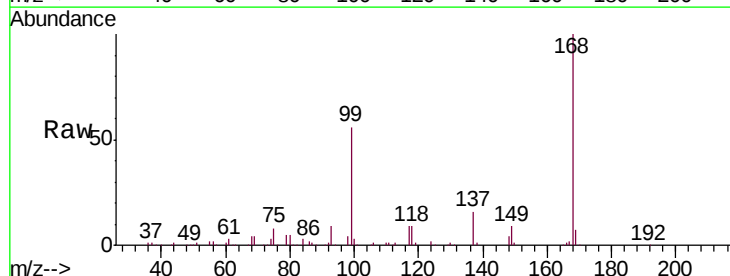
Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-E-(0)

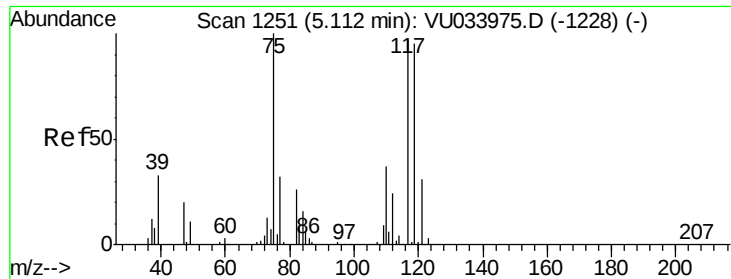
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.7	122.5
192	21.0	18.6	27.8



#36
 1,1-Dichloropropene
 Concen: 5.286 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.2	54.6#
77	0.0	24.8	37.2#

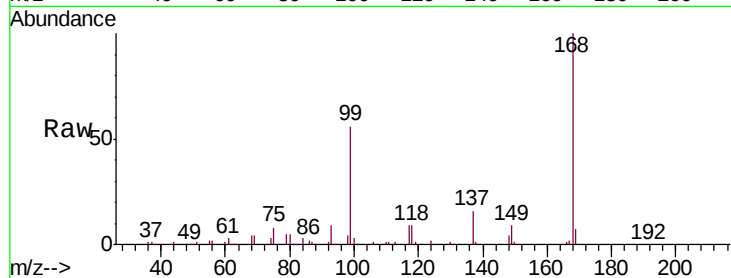




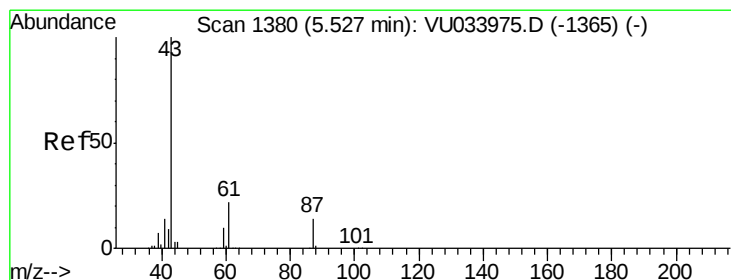
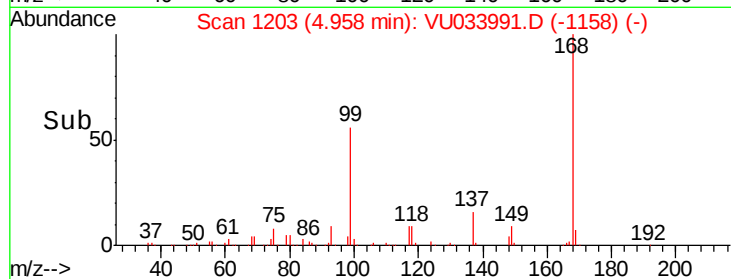
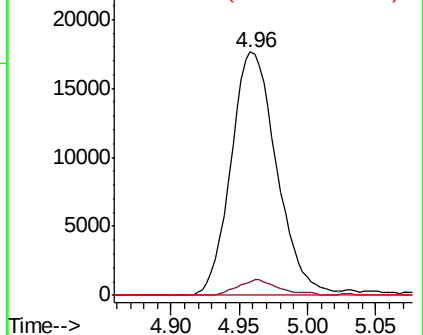
#38
Carbon Tetrachloride
Concen: 6.303 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.15 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

Instrument :
MSVOA_U
ClientSampleId :
T1-S-E-(0)

Tgt Ion: 117 Resp: 41082
Ion Ratio Lower Upper
117 100
119 5.6 78.4 117.6#
121 0.0 25.4 38.2#

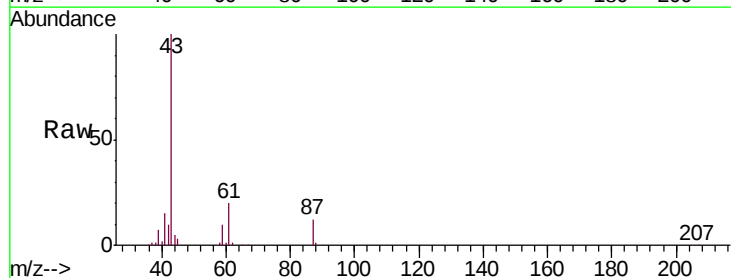


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

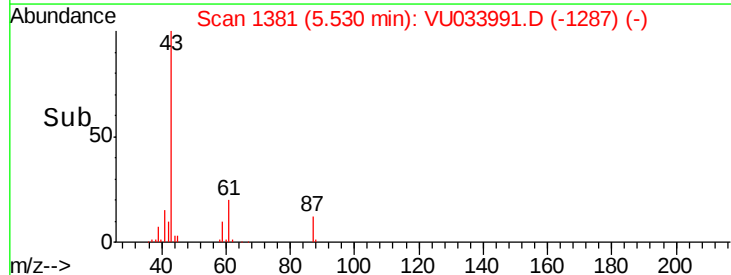
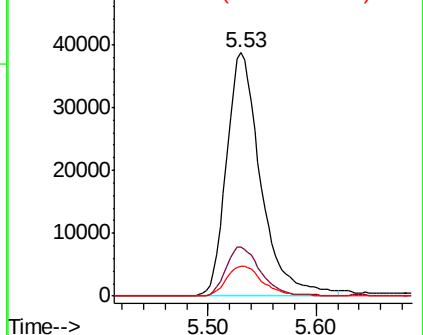


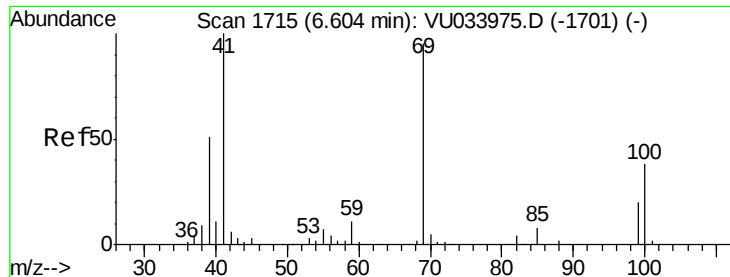
#43
Isopropyl Acetate
Concen: 8.718 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU033991.D
Acq: 27 Aug 2019 22:41

Tgt Ion: 43 Resp: 85745
Ion Ratio Lower Upper
43 100
61 20.7 17.8 26.8
87 13.1 11.9 17.9



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





#48

Methyl methacrylate

Concen: 1.024 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.08 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-E(0)

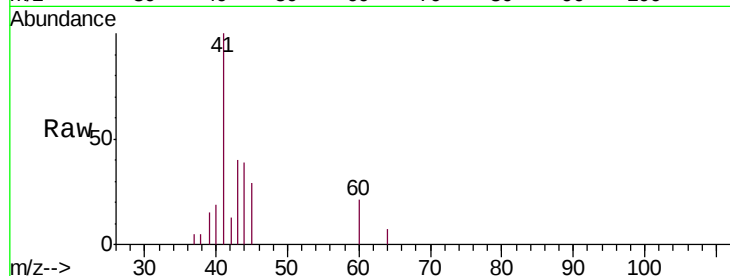
Tgt Ion: 41 Resp: 4790

Ion Ratio Lower Upper

41 100

69 0.0 76.3 114.5#

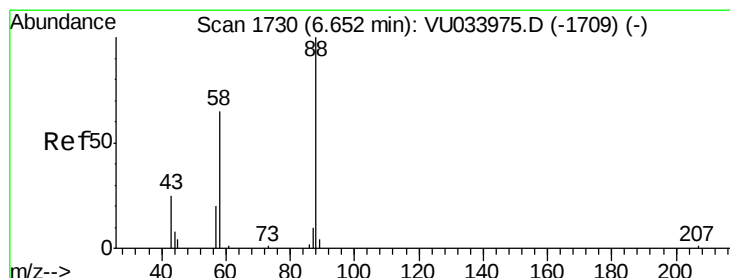
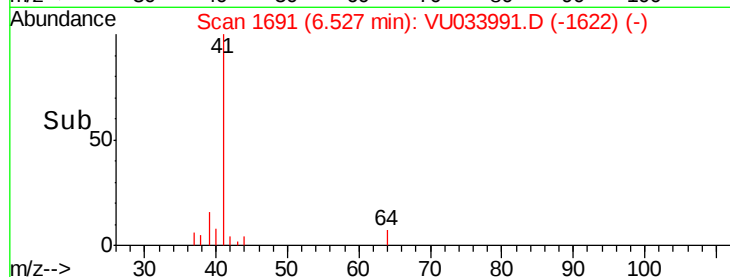
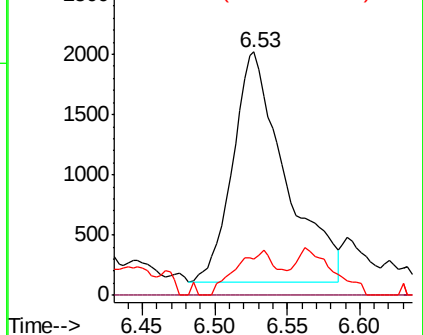
39 0.0 41.1 61.7#



Abundance Ion 41.00 (40.70 to 41.70): VU033991.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU033991.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU033991.D (-1622) (-)



#49

1,4-Dioxane

Concen: 1.138 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.03 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

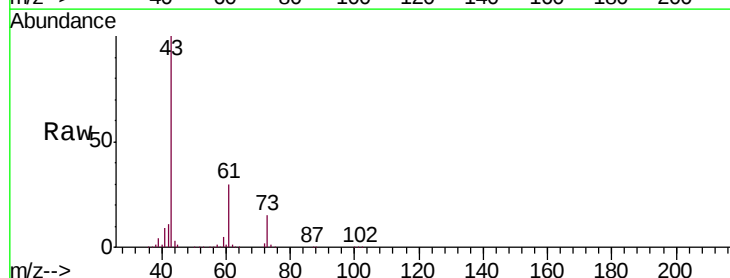
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 1019352.1 0.0 0.0#

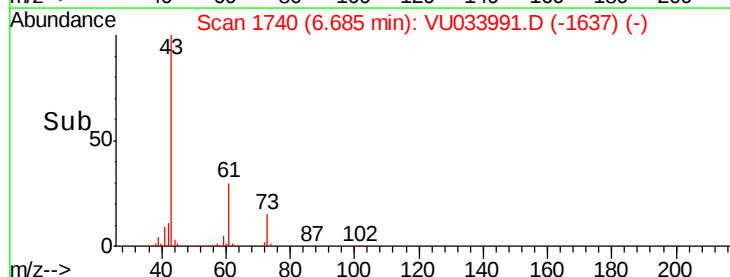
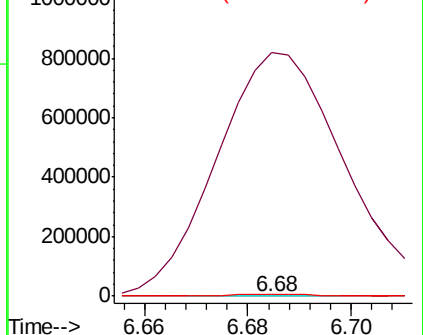
58 5454.8 56.6 85.0#

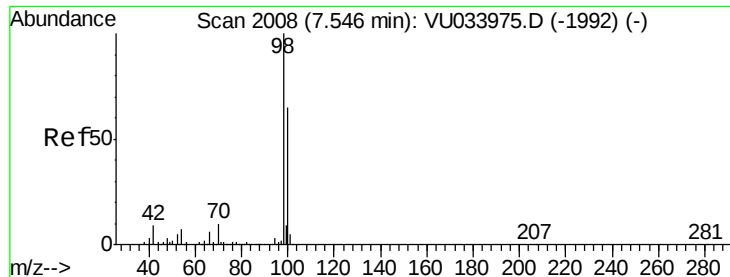


Abundance Ion 88.00 (87.70 to 88.70): VU033991.D (-1637) (-)

Ion 43.00 (42.70 to 43.70): VU033991.D (-1637) (-)

Ion 58.00 (57.70 to 58.70): VU033991.D (-1637) (-)





#50

Toluene-d8

Concen: 53.248 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

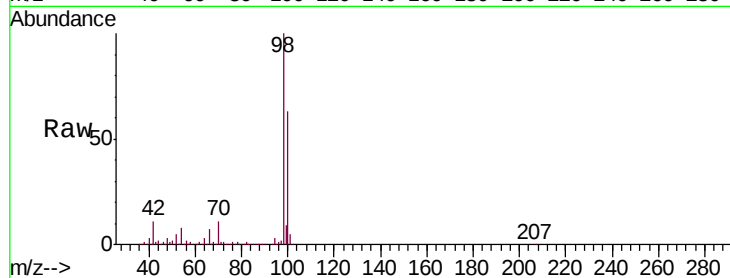
T1-S-E-(0)

Tgt Ion: 98 Resp: 921810

Ion Ratio Lower Upper

98 100

100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VU033991.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU033991.D (-1915) (-)

7.55

600000

500000

400000

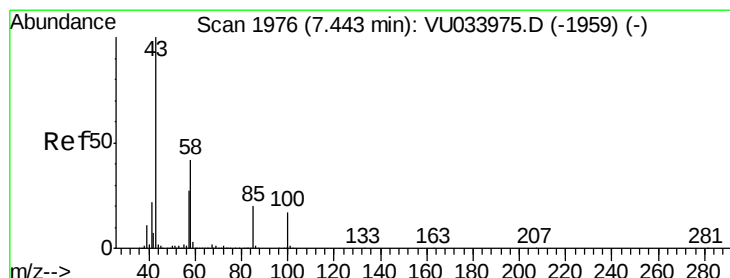
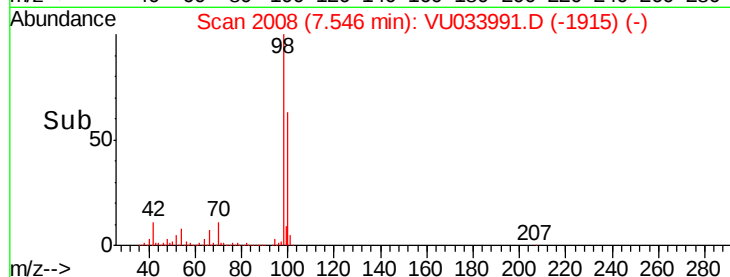
300000

200000

100000

0

Time--> 7.40 7.55 7.70



#51

4-Methyl-2-Pentanone

Concen: 12.138 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU033991.D

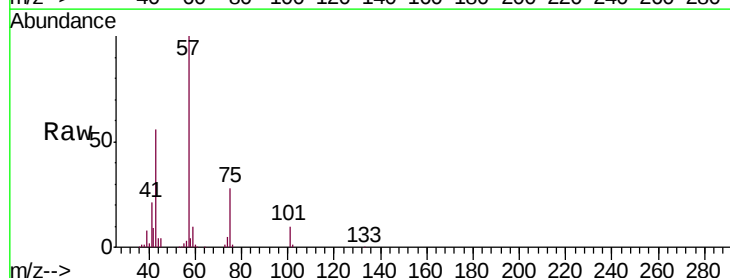
Acq: 27 Aug 2019 22:41

Tgt Ion: 43 Resp: 82311

Ion Ratio Lower Upper

43 100

58 6.8 33.6 50.4#



Abundance Ion 43.00 (42.70 to 43.70): VU033991.D (-1883) (-)

Ion 58.00 (57.70 to 58.70): VU033991.D (-1883) (-)

7.40

50000

40000

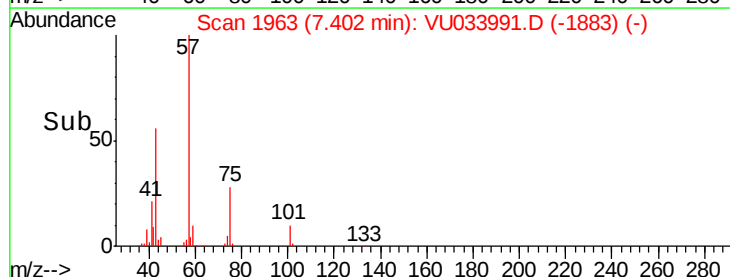
30000

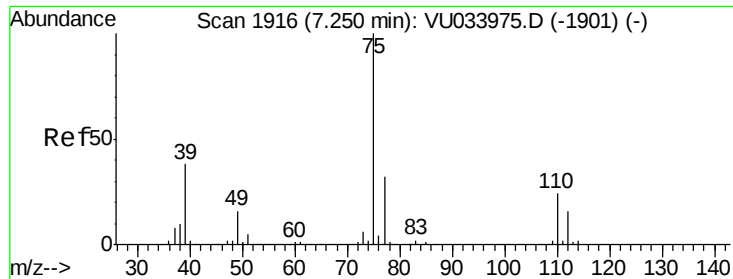
20000

10000

0

Time--> 7.35 7.40 7.45 7.50



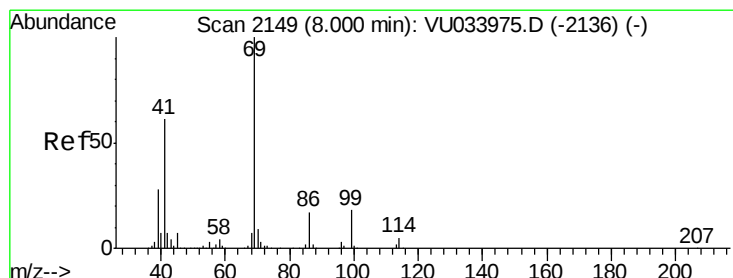
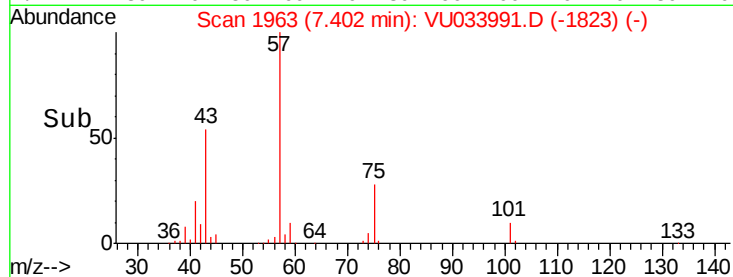
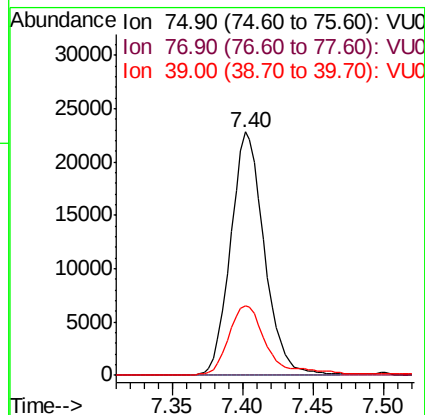
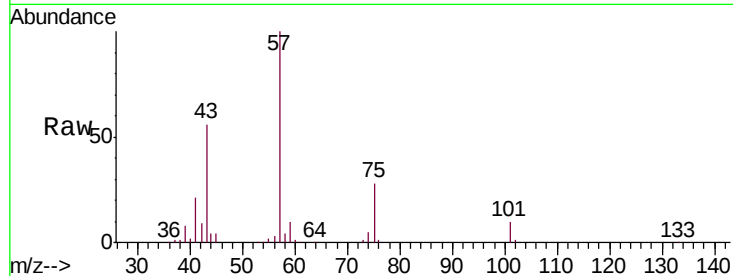


#54

cis-1,3-Dichloropropene
 Concen: 4.850 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-E-(0)

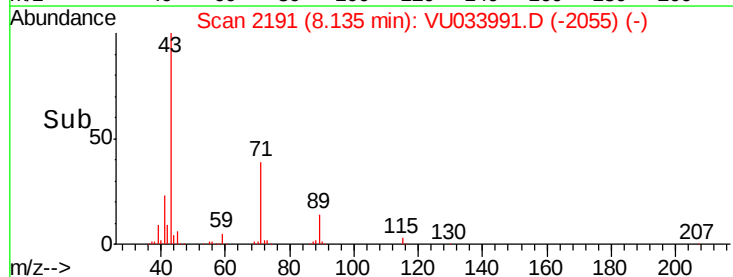
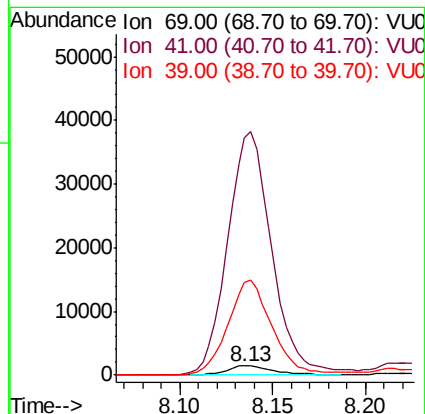
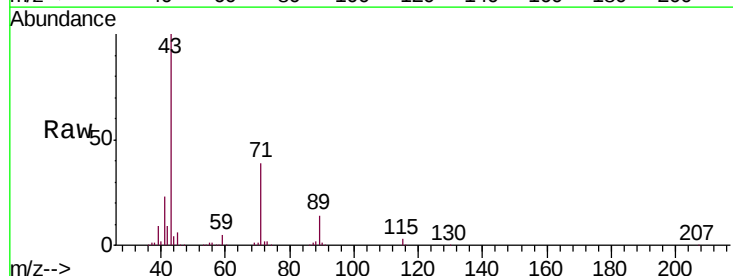
Tgt Ion: 75 Resp: 38202
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 28.7 30.7 46.1#

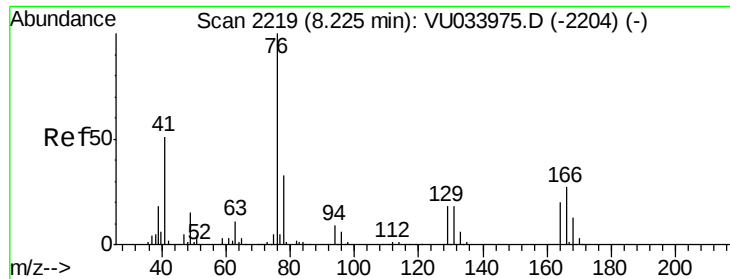


#56

Ethyl methacrylate
 Concen: 2.820 ug/l
 RT: 8.13 min Scan# 2191
 Delta R.T. 0.14 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

Tgt Ion: 69 Resp: 2565
 Ion Ratio Lower Upper
 69 100
 41 2479.7 48.6 72.8#
 39 960.3 22.4 33.6#

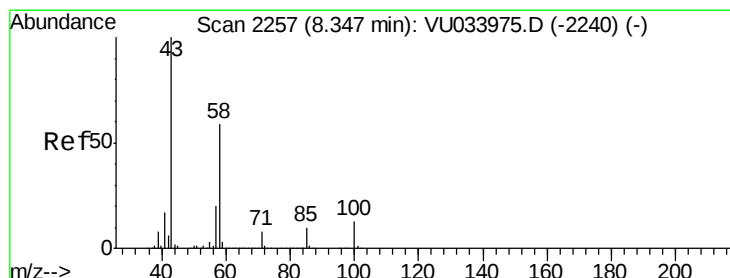
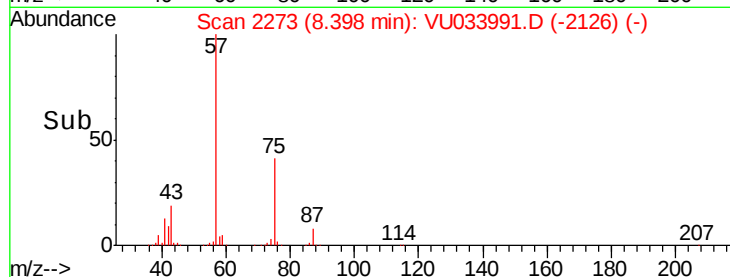
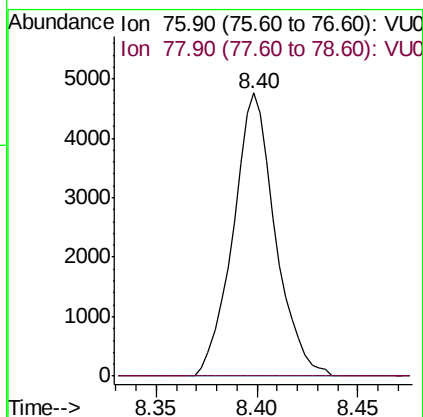
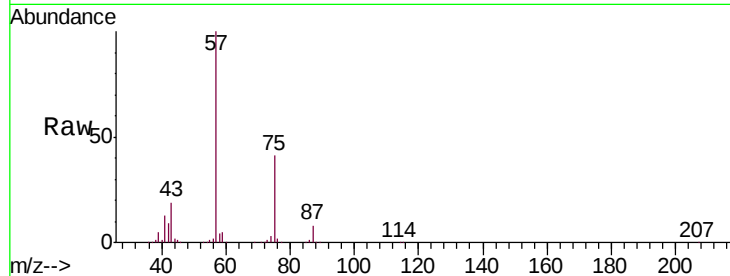




#57
 1,3-Dichloropropane
 Concen: 0.842 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.17 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

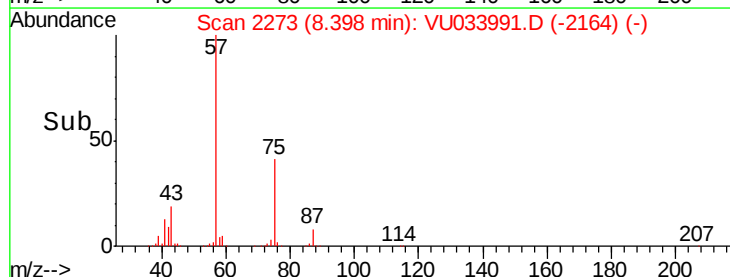
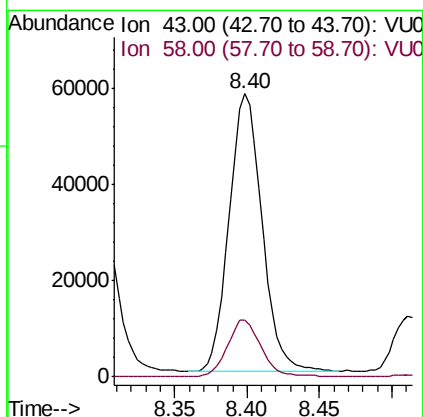
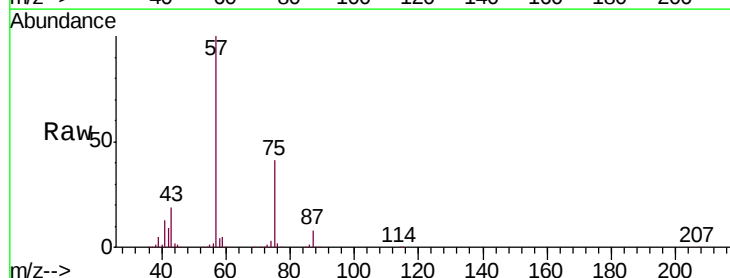
Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-E(0)

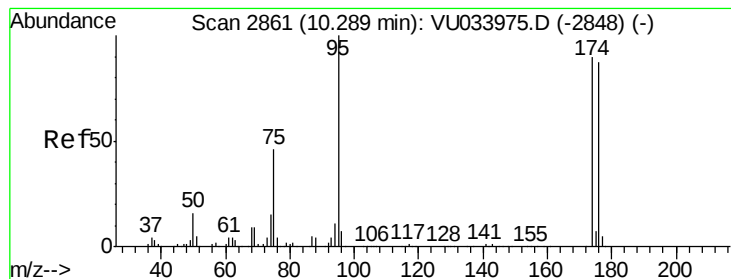
Tgt Ion: 76 Resp: 6951
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 17.514 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU033991.D
 Acq: 27 Aug 2019 22:41

Tgt Ion: 43 Resp: 91285
 Ion Ratio Lower Upper
 43 100
 58 21.4 29.5 88.6#





#62

4-Bromofluorobenzene

Concen: 41.985 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-E-(0)

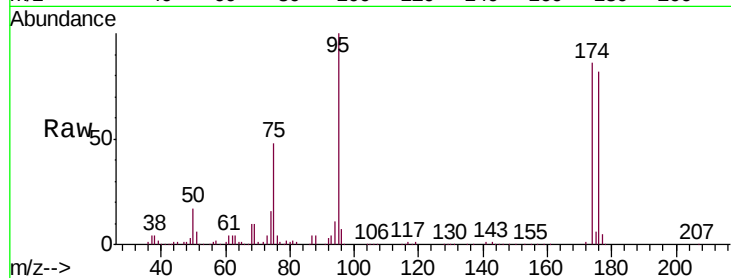
Tgt Ion: 95 Resp: 278811

Ion Ratio Lower Upper

95 100

174 86.8 0.0 183.8

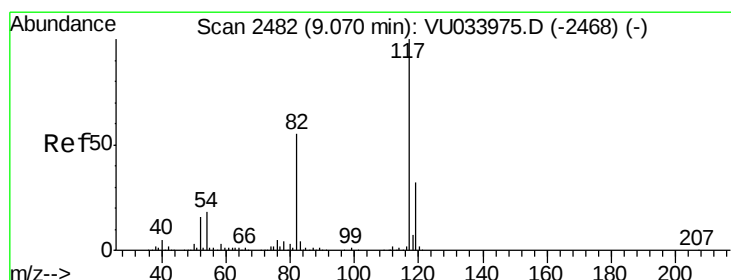
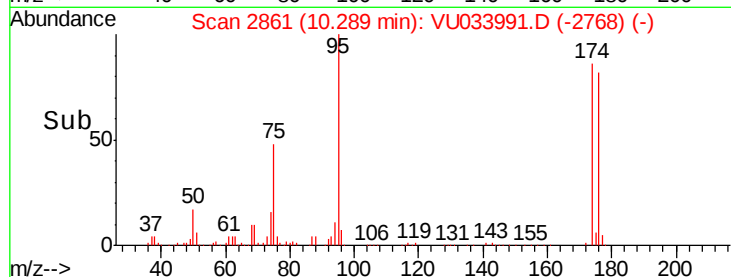
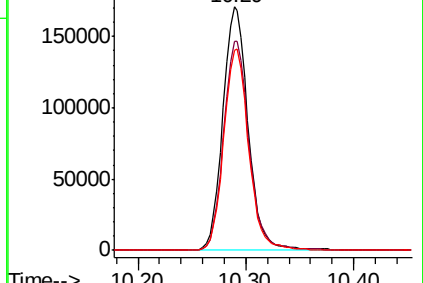
176 81.9 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VU033991.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU033991.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU033991.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

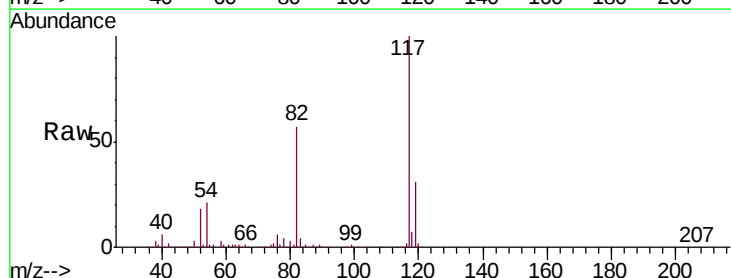
Tgt Ion: 117 Resp: 679084

Ion Ratio Lower Upper

117 100

82 57.2 43.8 65.8

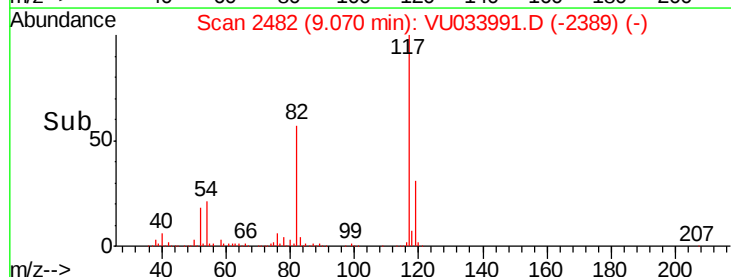
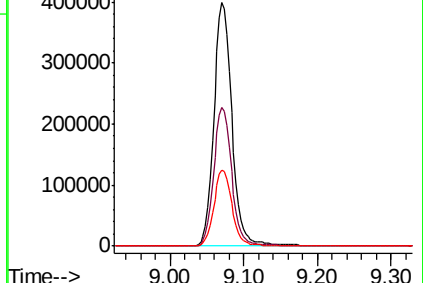
119 31.4 25.7 38.5

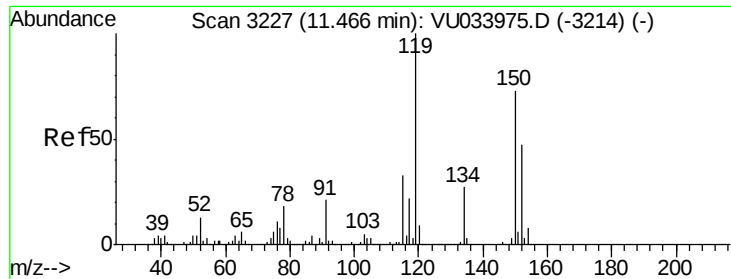


Abundance Ion 116.90 (116.60 to 117.60): VU033991.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU033991.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU033991.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-E-(0)

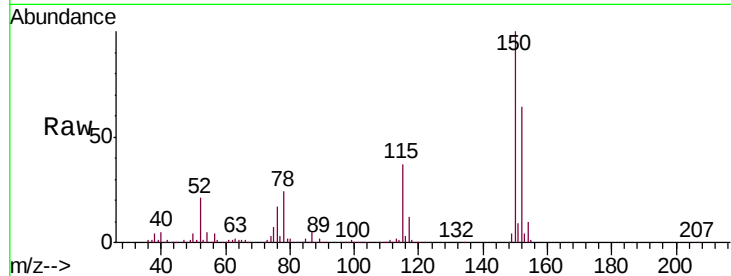
Tgt Ion:152 Resp: 297212

Ion Ratio Lower Upper

152 100

115 57.8 38.6 115.7

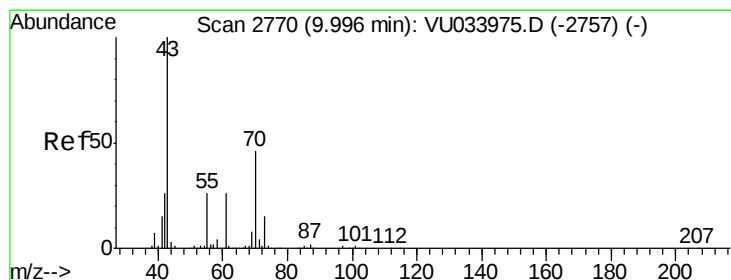
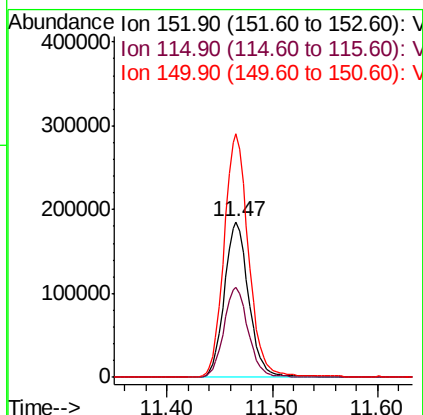
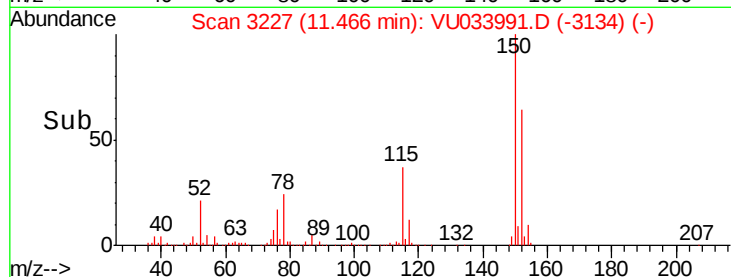
150 156.4 0.0 343.8



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



#74

N-ethyl acetate

Concen: 0.229 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Tgt Ion: 43 Resp: 1641

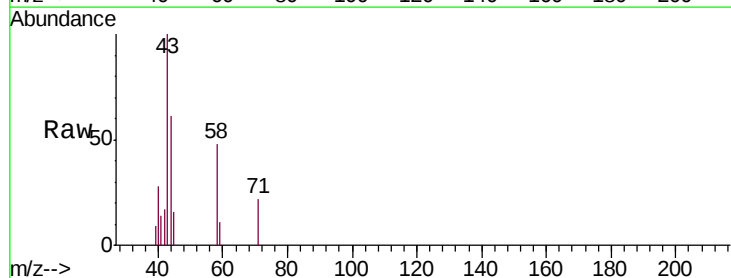
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.0 31.4#

61 0.0 20.9 31.3#

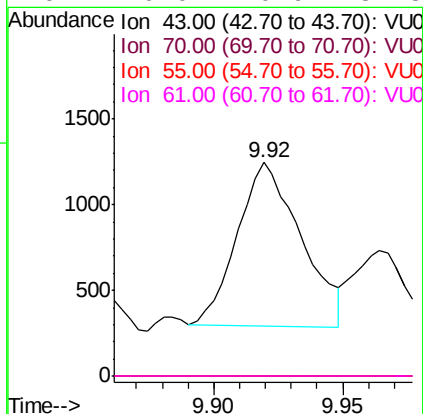
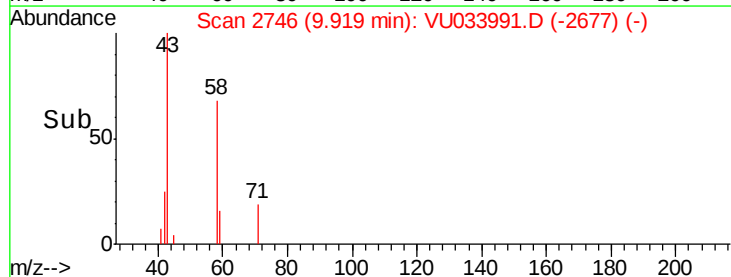


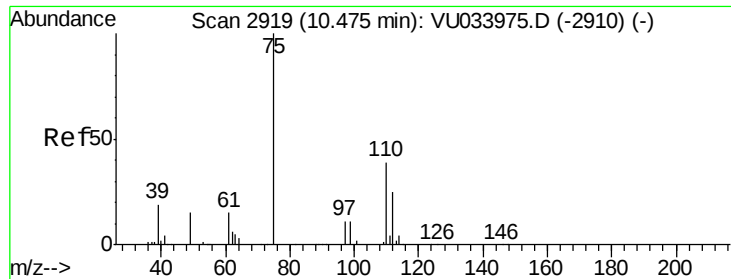
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#76

1,2,3-Trichloropropane

Concen: 22.498 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

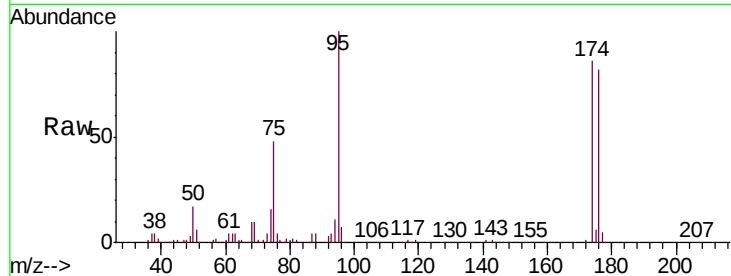
T1-S-E(0)

Tgt Ion: 75 Resp: 133234

Ion Ratio Lower Upper

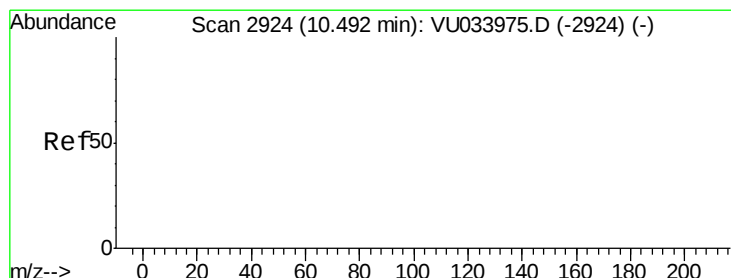
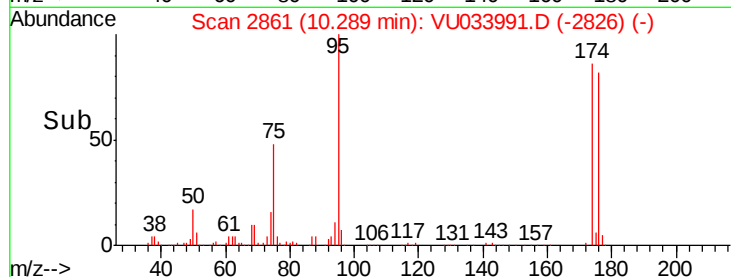
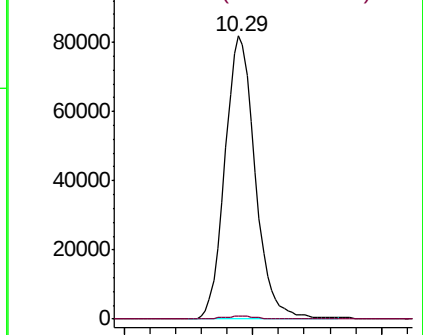
75 100

77 1.2 21.0 63.0#



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: 64.441 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033991.D

Acq: 27 Aug 2019 22:41

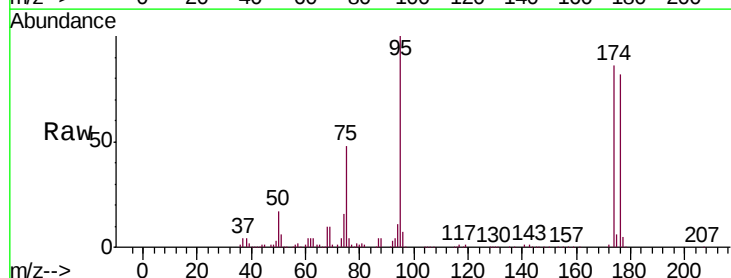
Tgt Ion: 75 Resp: 133234

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

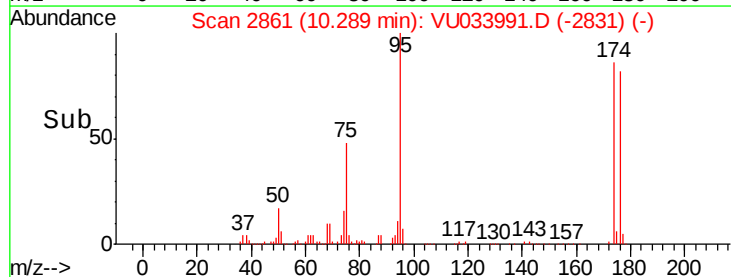
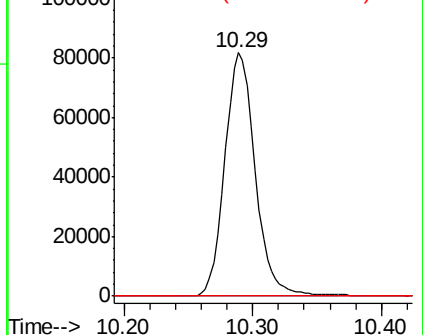
89 0.0 0.0 0.0

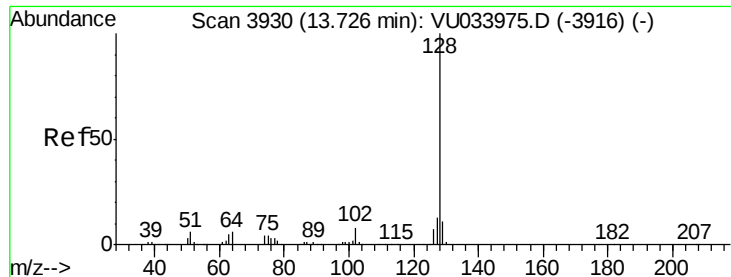


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 2.084 ug/l

RT: 13.85 min Scan# 3969

Delta R.T. 0.13 min

Lab File: VU033991.D

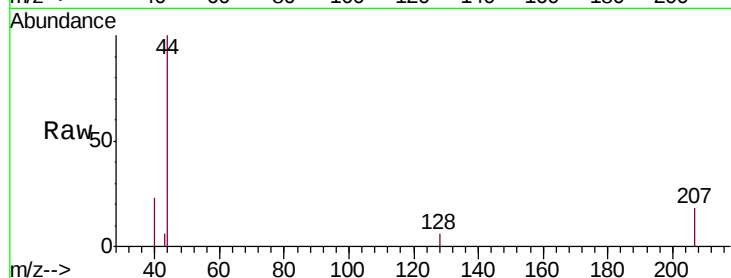
Acq: 27 Aug 2019 22:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-E-(0)



Tgt Ion:	128	Resp:	21
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#

