

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110518\
 Data File : VU027946.D
 Acq On : 05 Nov 2018 10:53
 Operator : MD/SY
 Sample : PB114473ZHE#01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#01

Quant Time: Nov 06 03:21:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	197481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	360327	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	326532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	140221	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	156802	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	
35) Dibromofluoromethane	4.89	113	116084	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
50) Toluene-d8	7.57	98	458594	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	10.31	95	158270	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

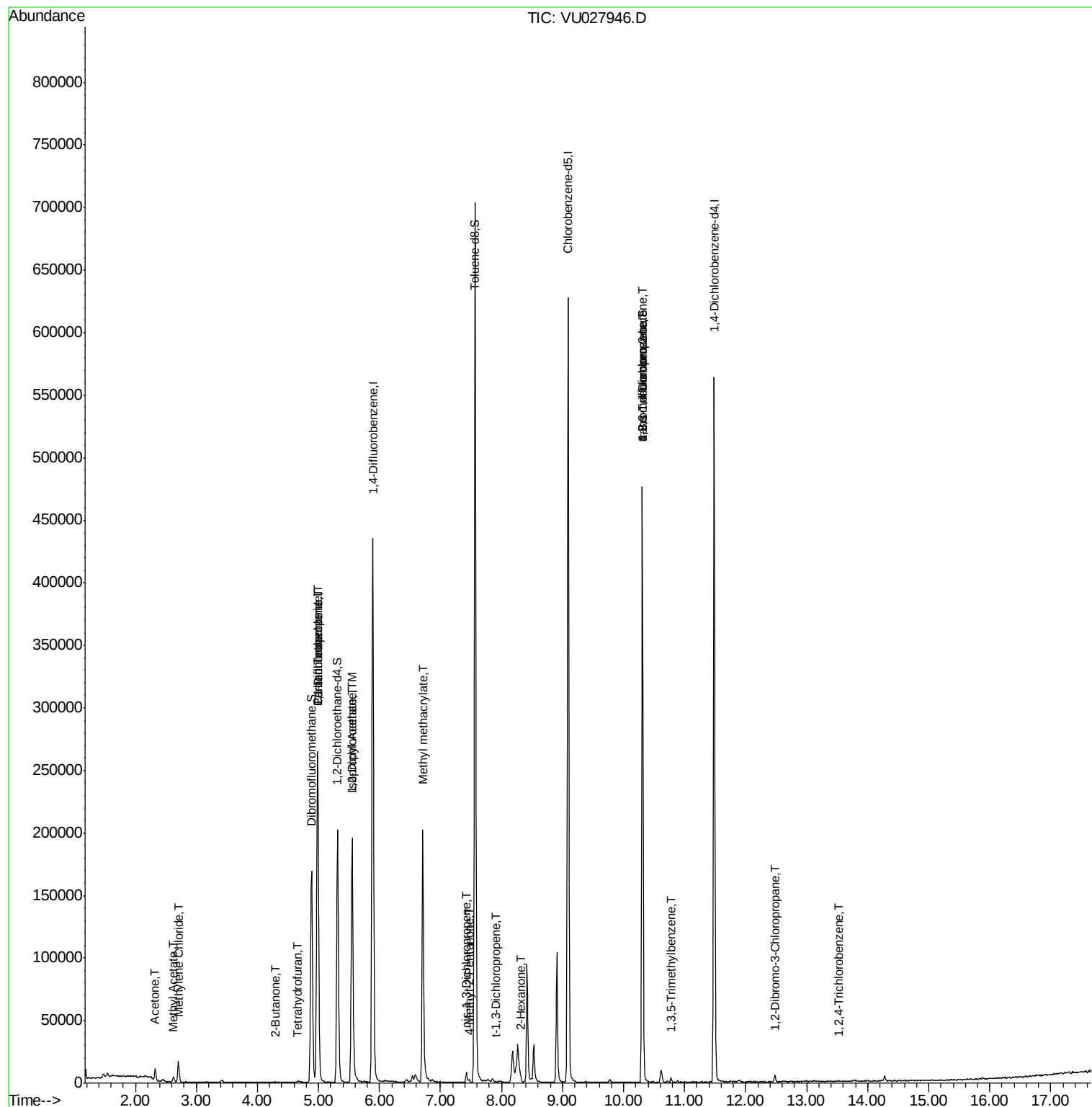
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.21	56	153	Below Cal	#	13
16) Acetone	2.32	43	9545	5.240	ug/l	92
18) Methyl Acetate	2.62	43	5345	1.067	ug/l	97
20) Methylene Chloride	2.70	84	6730	2.530	ug/l	95
25) 2-Butanone	4.30	43	925	0.319	ug/l	94
29) Tetrahydrofuran	4.65	42	483	0.250	ug/l	# 47
31) Cyclohexane	4.99	56	4687	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	16668	4.417	ug/l	# 49
38) Carbon Tetrachloride	4.99	117	19475	5.823	ug/l	# 16
42) 1,2-Dichloroethane	5.55	62	1112	0.271	ug/l	# 76
43) Isopropyl Acetate	5.55	43	237218	27.383	ug/l	100
48) Methyl methacrylate	6.71	41	19224	4.528	ug/l	# 44
51) 4-Methyl-2-Pentanone	7.47	43	1368	0.236	ug/l	94
53) t-1,3-Dichloropropene	7.90	75	23	1.123	ug/l	# 43
54) cis-1,3-Dichloropropene	7.43	75	1307	0.288	ug/l	# 71
59) 2-Hexanone	8.32	43	2088	0.467	ug/l	# 26
76) 1,2,3-Trichloropropane	10.31	75	83587	21.793	ug/l	# 34
80) 1,3,5-Trimethylbenzene	10.77	105	2124	0.236	ug/l	82
81) trans-1,4-Dichloro-2-buten	10.31	75	83587	54.390	ug/l	# 100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	201	0.218	ug/l	# 4
93) 1,2,4-Trichlorobenzene	13.52	180	236	0.756	ug/l	# 76
95) Naphthalene	13.76	128	1184	Below Cal	#	69

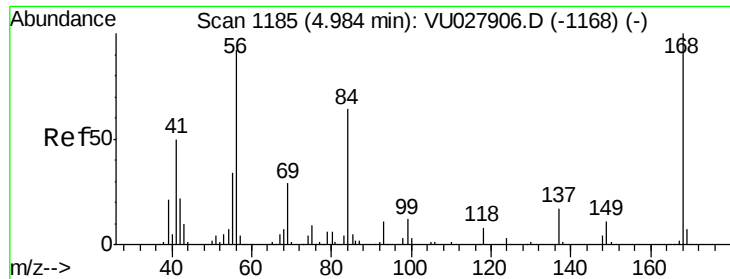
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU110518\
Data File : VU027946.D
Acq On : 05 Nov 2018 10:53
Operator : MD/SY
Sample : PB114473ZHE#01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

Quant Time: Nov 06 03:21:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

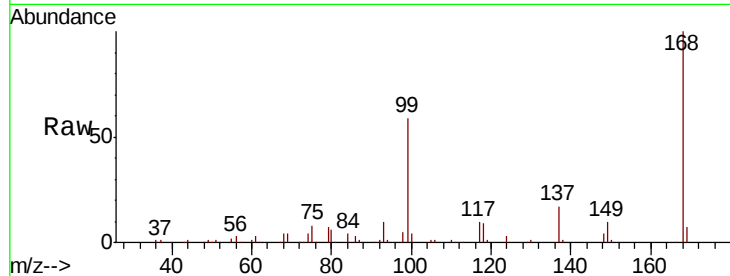
PB114473ZHE#01

Tot Ion:168 Resp: 197481

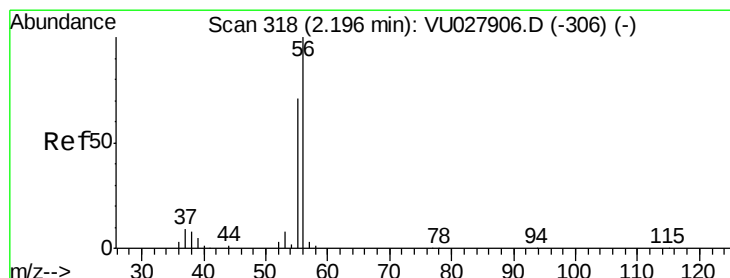
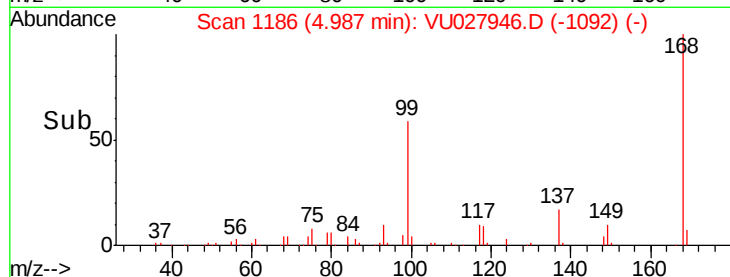
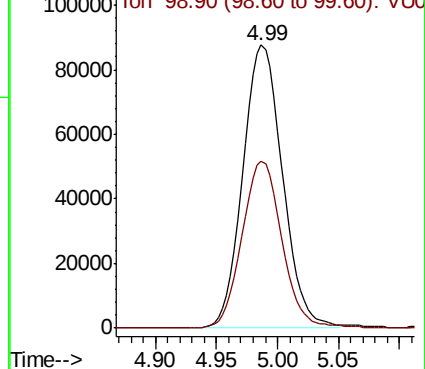
Ion Ratio Lower Upper

168 100

99 59.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027946.D (-1168) (-)



#13

Acrolein

Concen: Below Cal

RT: 2.21 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU027946.D

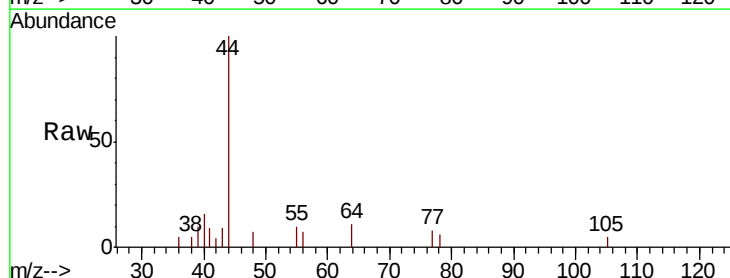
Acq: 05 Nov 2018 10:53

Tgt Ion: 56 Resp: 153

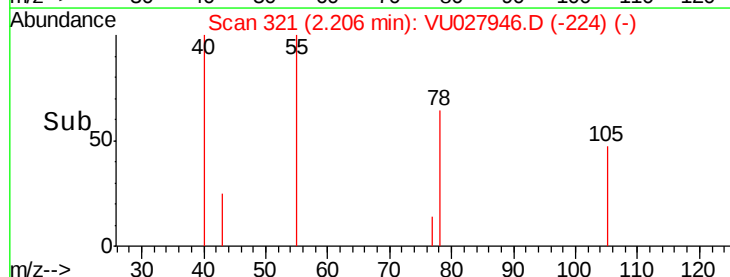
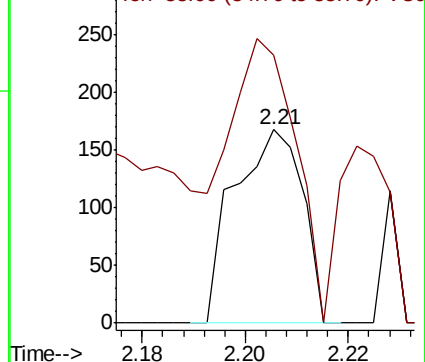
Ion Ratio Lower Upper

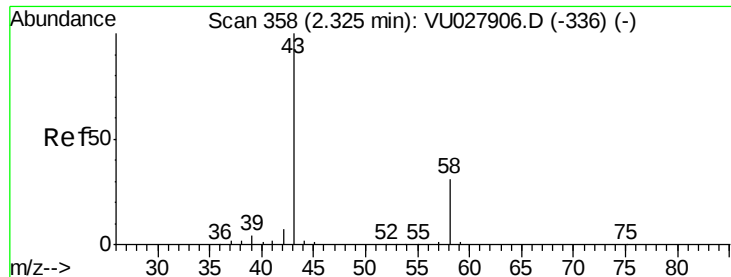
56 100

55 141.8 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027946.D (-306) (-)





#16

Acetone

Concen: 5.240 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

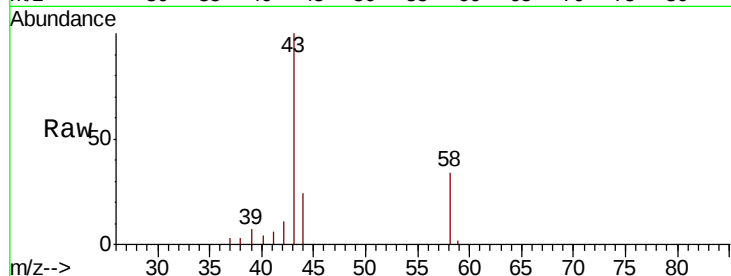
PB114473ZHE#01

Tot Ion: 43 Resp: 9545

Ion Ratio Lower Upper

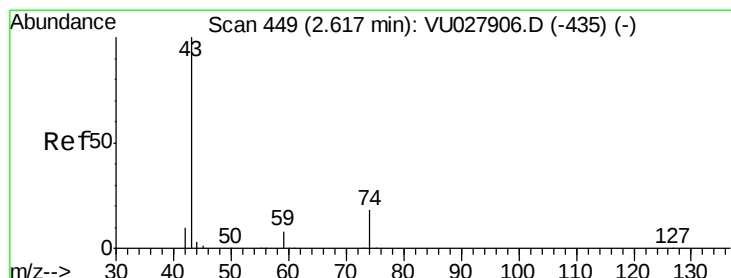
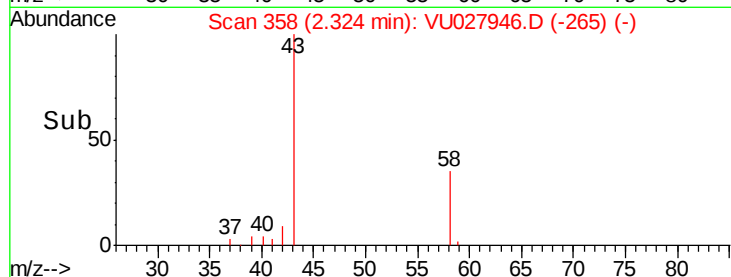
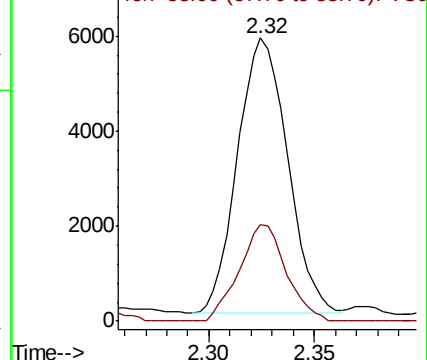
43 100

58 35.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.067 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027946.D

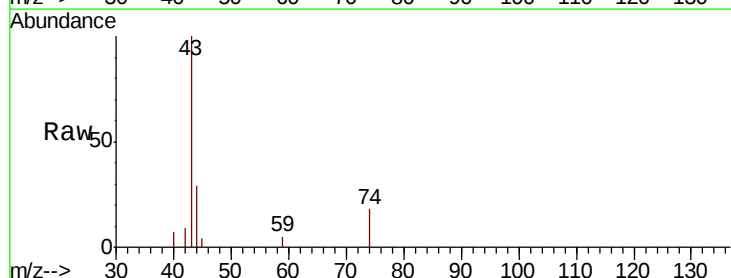
Acq: 05 Nov 2018 10:53

Tgt Ion: 43 Resp: 5345

Ion Ratio Lower Upper

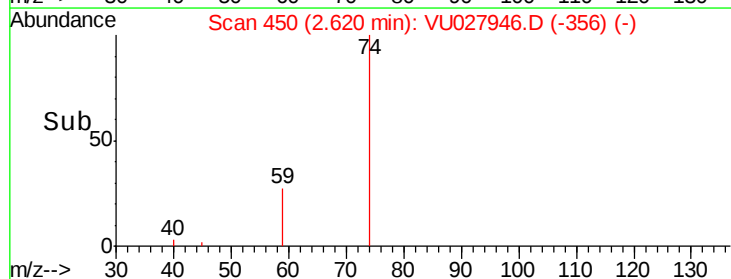
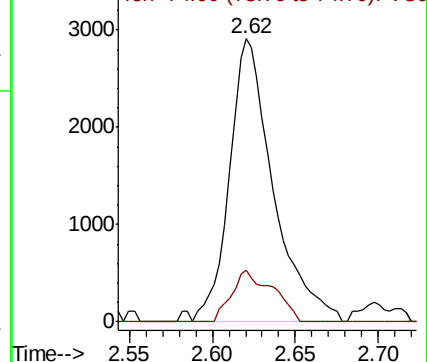
43 100

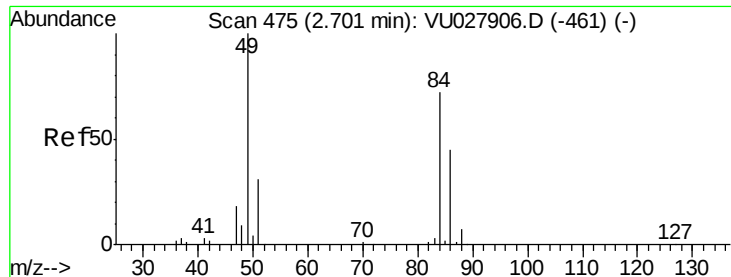
74 17.1 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

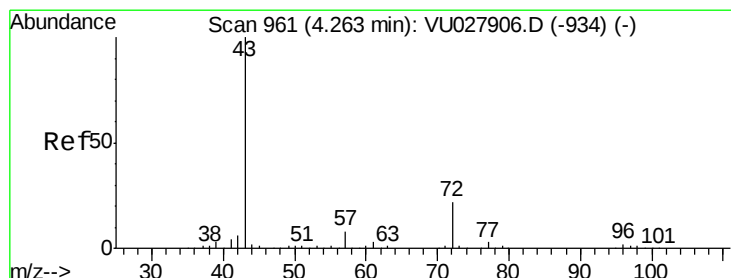
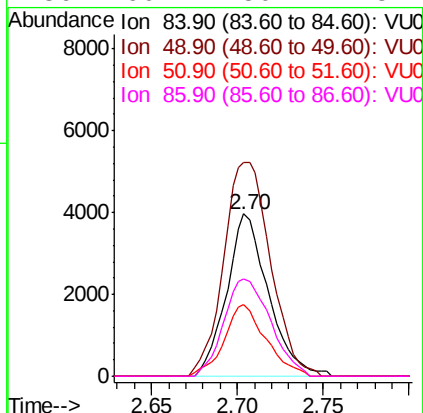
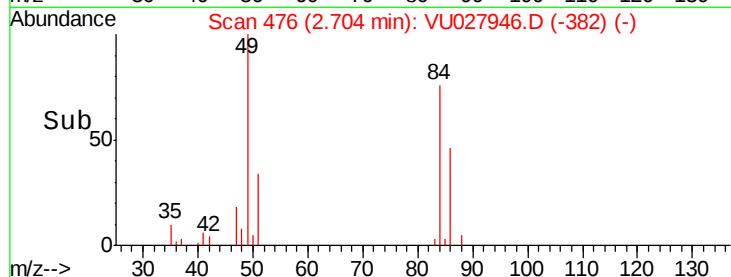
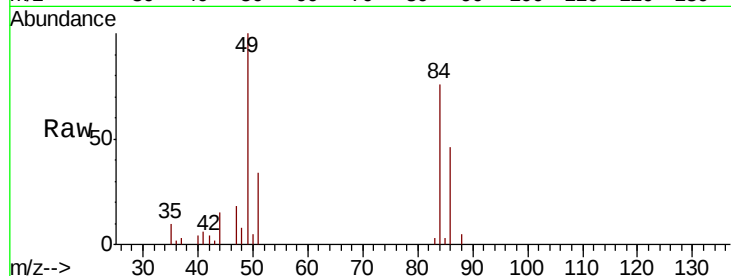




#20
Methvlene Chloride
Concen: 2.530 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

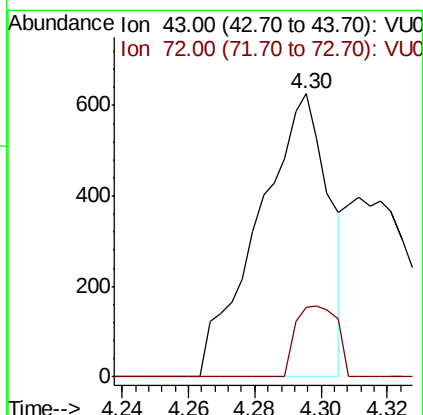
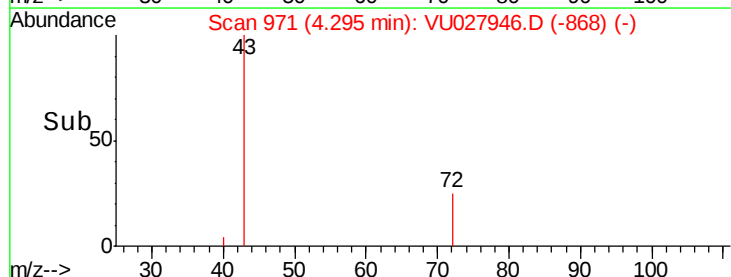
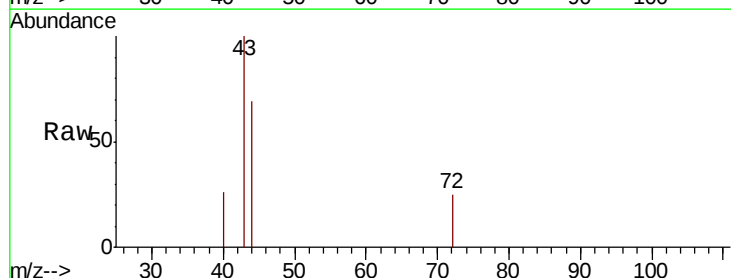
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

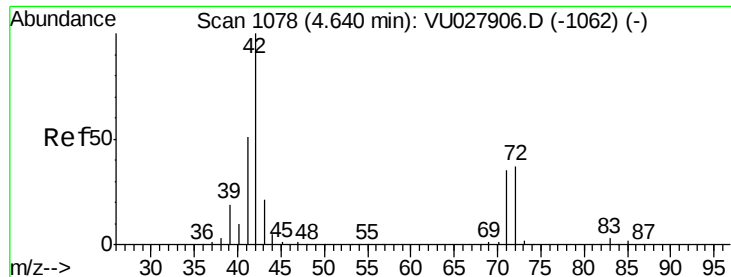
Tot Ion:	84	Resp:	6730
Ion	Ratio	Lower	Upper
84	100		
49	131.3	111.6	167.4
51	44.3	34.8	52.2
86	60.2	50.1	75.1



#25
2-Butanone
Concen: 0.319 ug/l
RT: 4.30 min Scan# 971
Delta R.T. 0.03 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion:	43	Resp:	925
Ion	Ratio	Lower	Upper
43	100		
72	24.8	17.7	26.5





#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 4.65 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#01

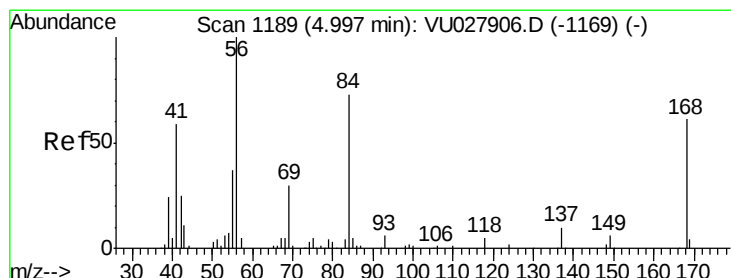
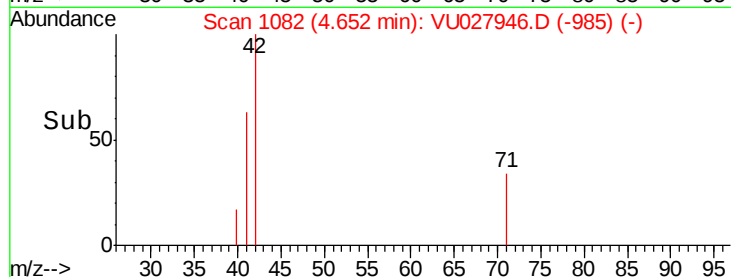
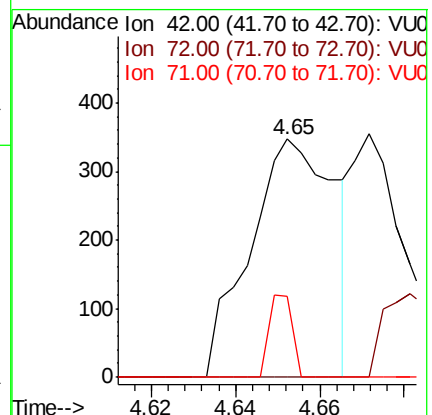
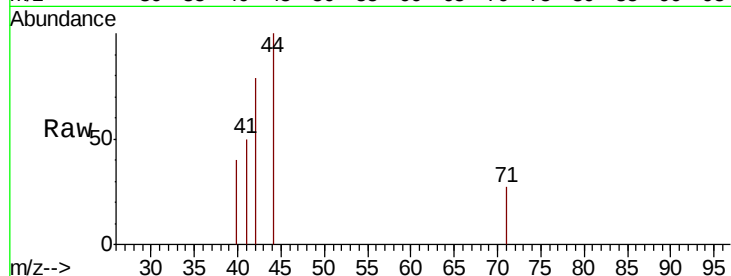
Tot Ion: 42 Resp: 483

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 9.5 27.9 41.9#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

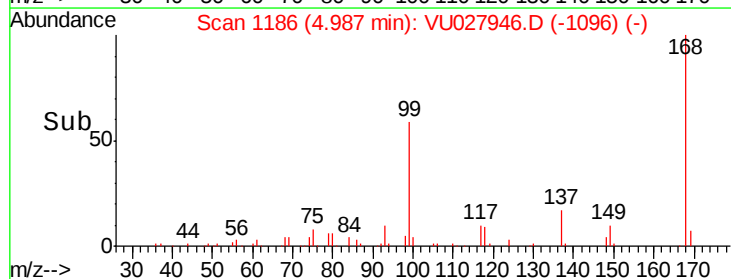
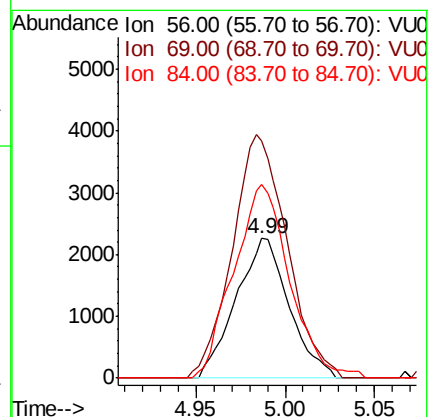
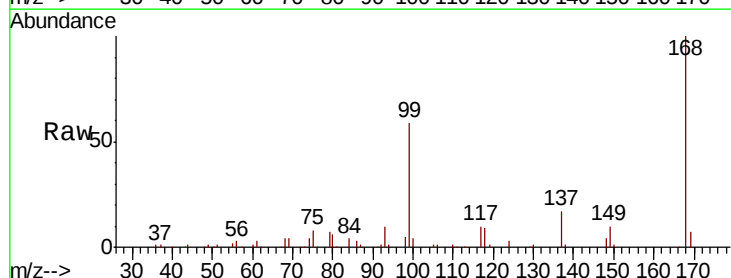
Tgt Ion: 56 Resp: 4687

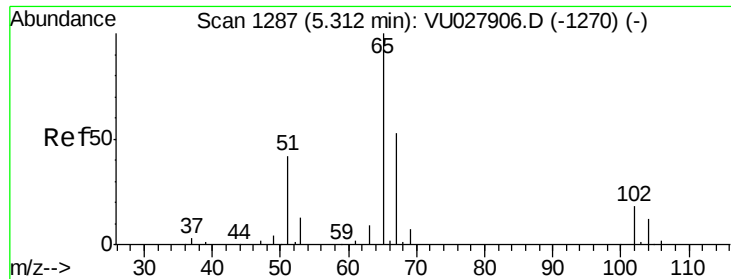
Ion Ratio Lower Upper

56 100

69 170.1 23.7 35.5#

84 139.1 58.2 87.4#

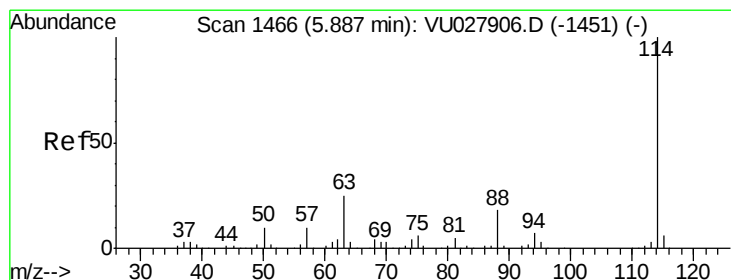
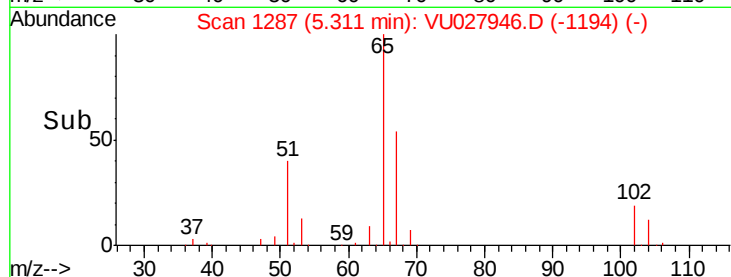
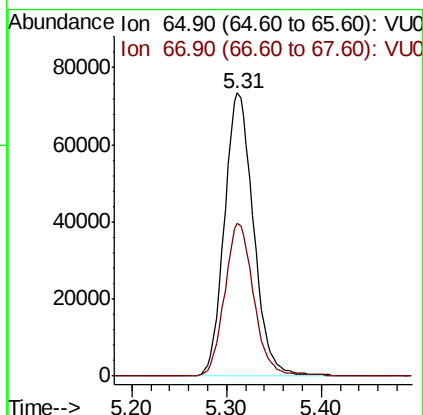
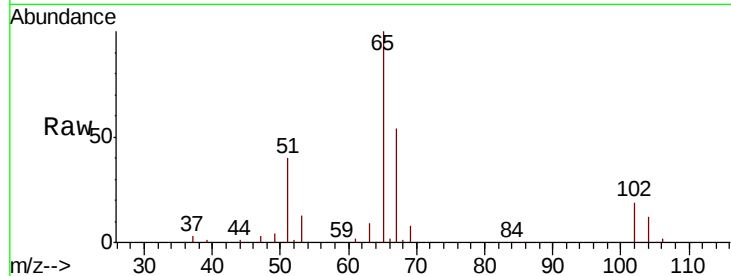




#33
 1,2-Dichloroethane-d4
 Concen: 53.406 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027946.D
 Acq: 05 Nov 2018 10:53

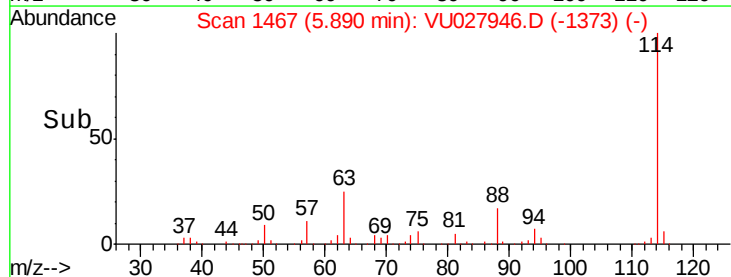
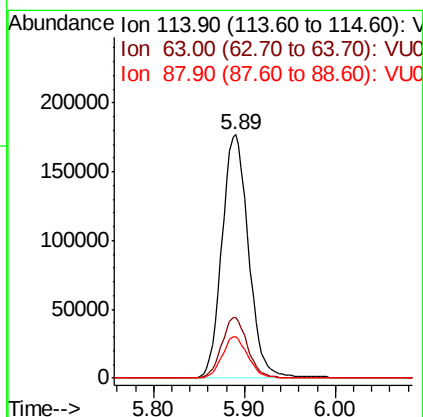
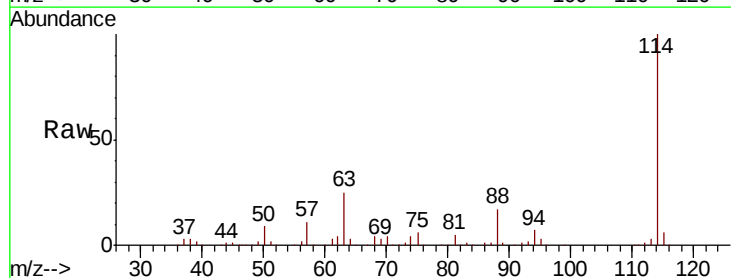
Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#01

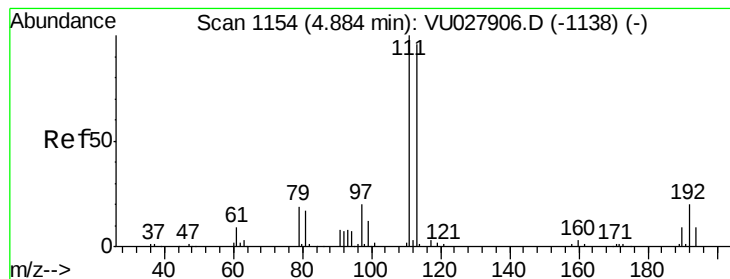
Tot Ion: 65 Resp: 156802
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027946.D
 Acq: 05 Nov 2018 10:53

Tgt Ion: 114 Resp: 360327
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.8
 88 17.1 0.0 35.8





#35

Dibromofluoromethane

Concen: 51.095 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#01

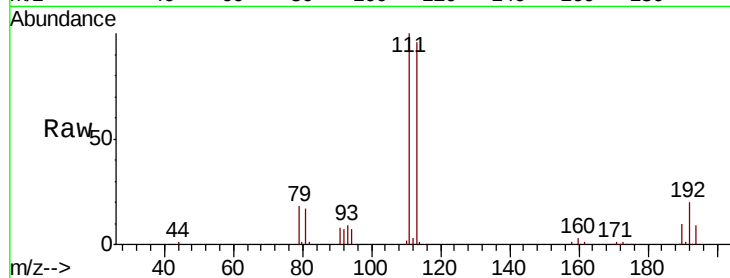
Tot Ion:113 Resp: 116084

Ion Ratio Lower Upper

113 100

111 103.8 83.0 124.6

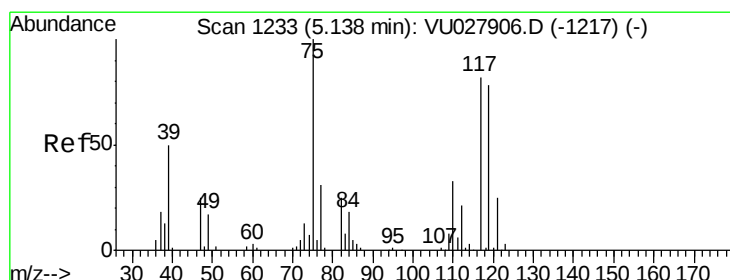
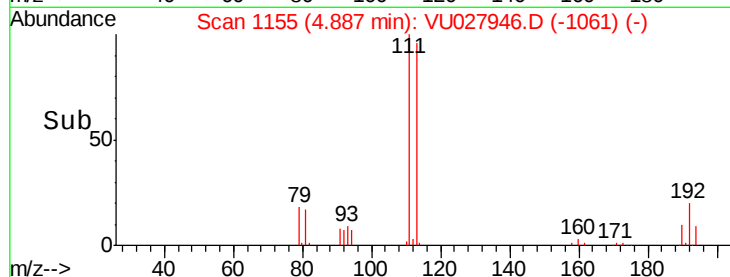
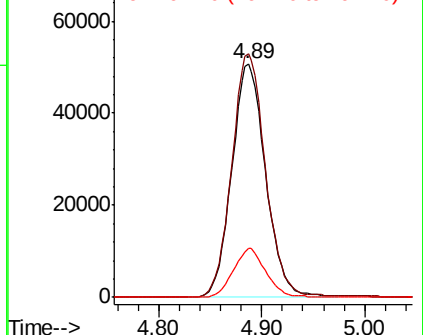
192 20.0 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.417 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

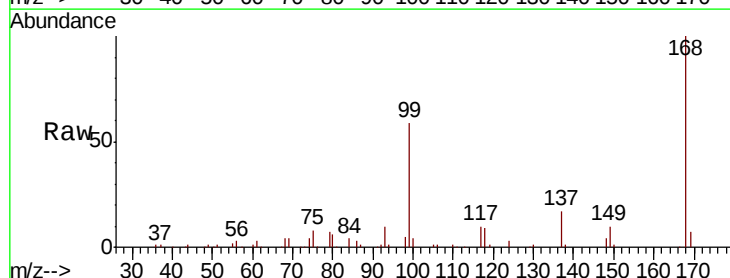
Tgt Ion: 75 Resp: 16668

Ion Ratio Lower Upper

75 100

110 7.6 16.5 49.5#

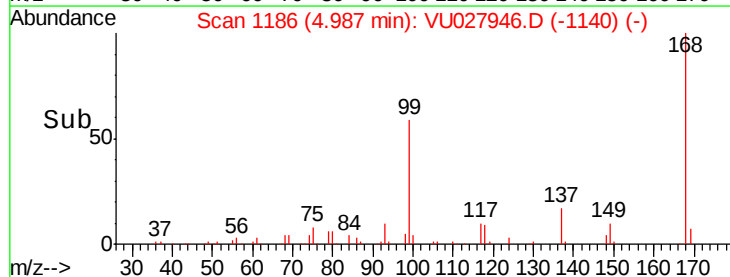
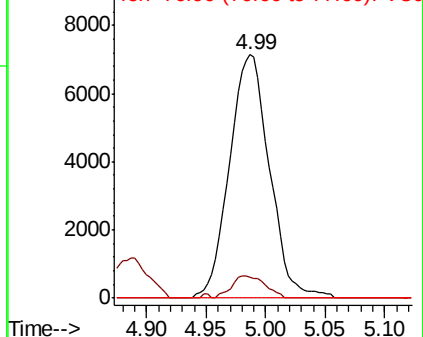
77 0.0 24.9 37.3#

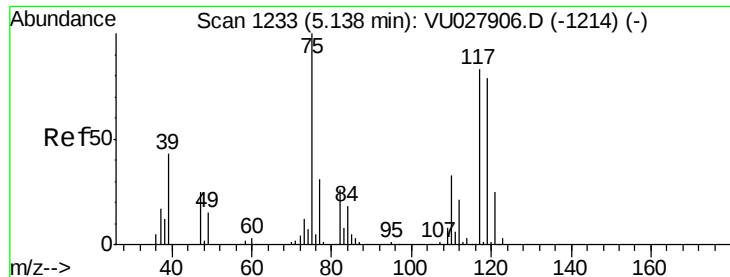


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

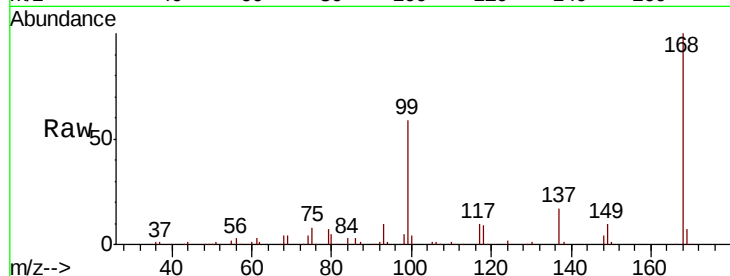




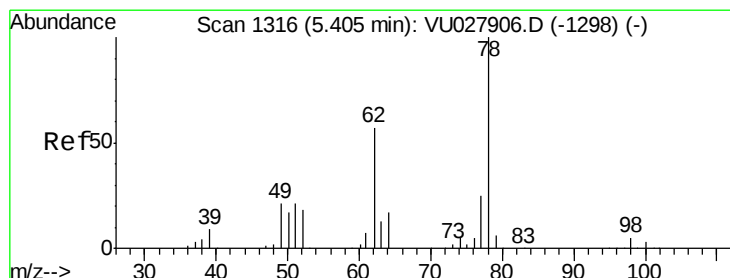
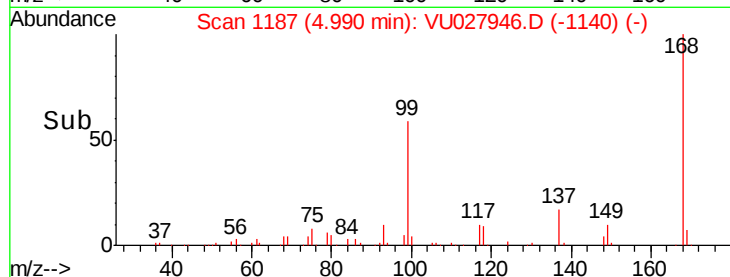
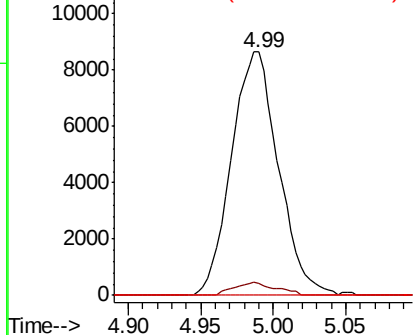
#38
Carbon Tetrachloride
Concen: 5.823 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.15 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

Tot Ion:117 Resp: 19475
Ion Ratio Lower Upper
117 100
119 4.8 76.0 114.0#
121 0.0 24.5 36.7#

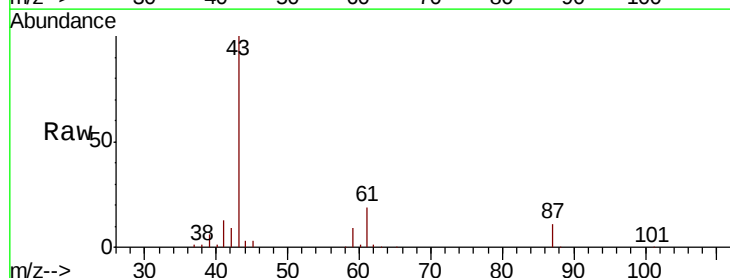


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

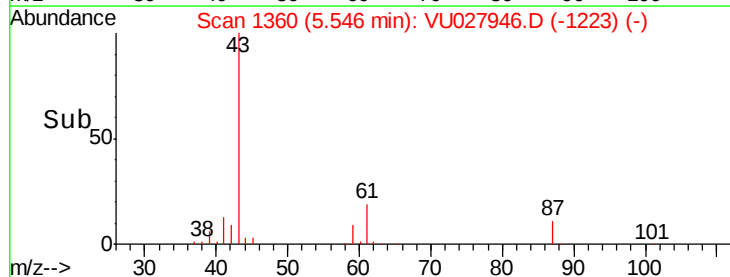
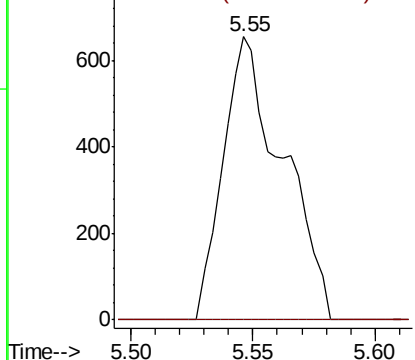


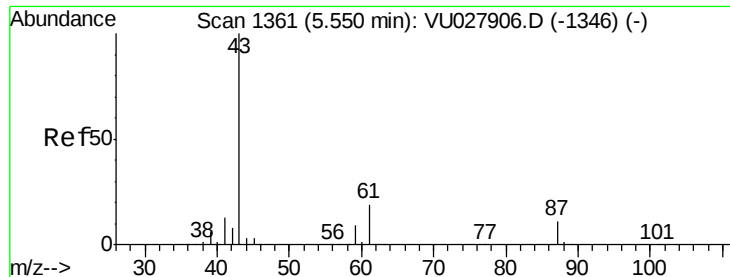
#42
1,2-Dichloroethane
Concen: 0.271 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.14 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion: 62 Resp: 1112
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 27.383 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#01

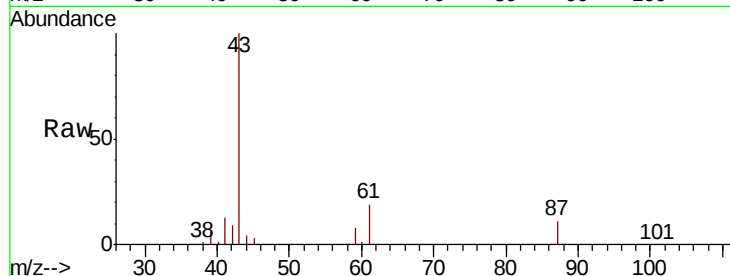
Tot Ion: 43 Resp: 237218

Ion Ratio Lower Upper

43 100

61 18.5 15.0 22.4

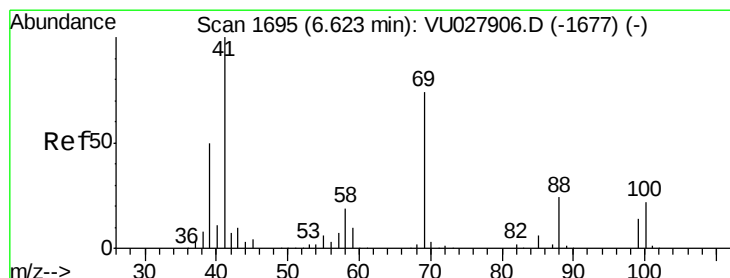
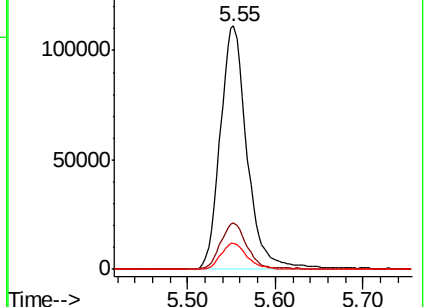
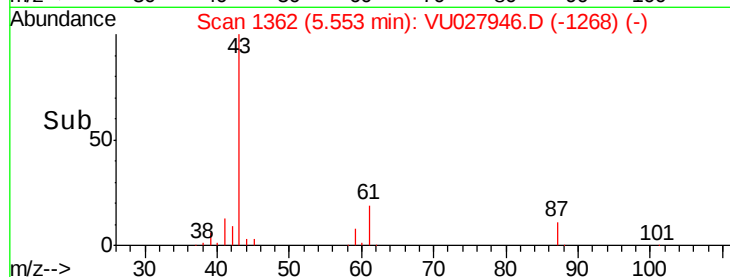
87 10.5 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

Ion 61.00 (60.70 to 61.70): VU027906.D (-1346) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-1346) (-)



#48

Methyl methacrylate

Concen: 4.528 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

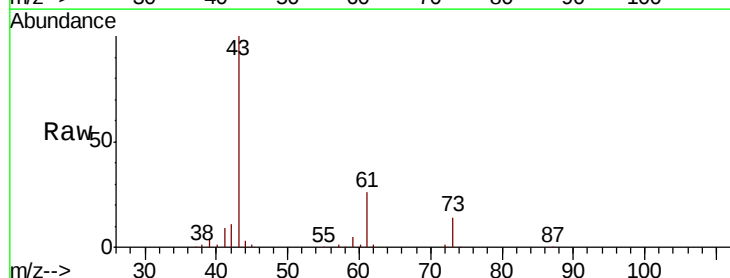
Tgt Ion: 41 Resp: 19224

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

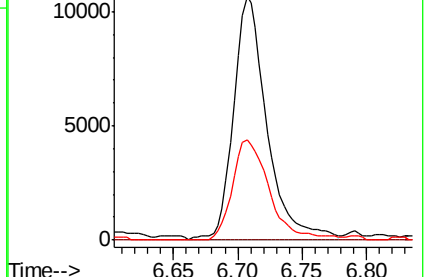
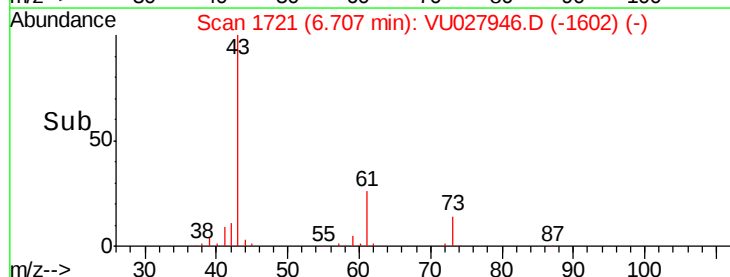
39 44.8 40.0 60.0

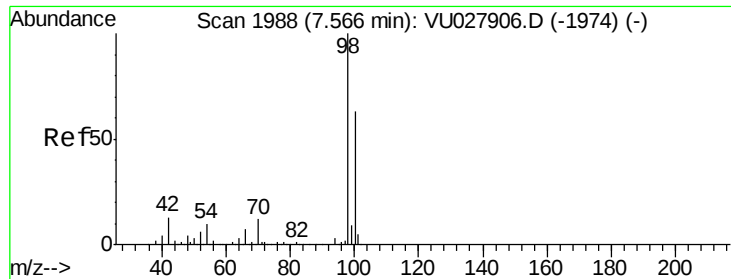


Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-1677) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1677) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1677) (-)

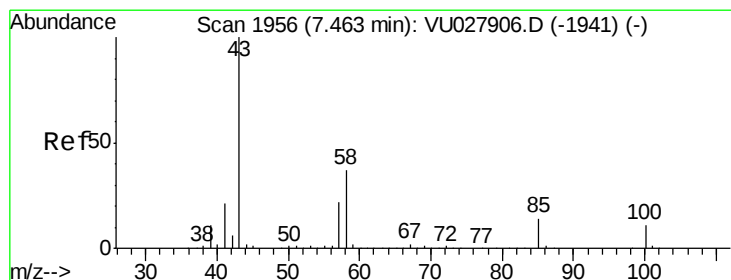
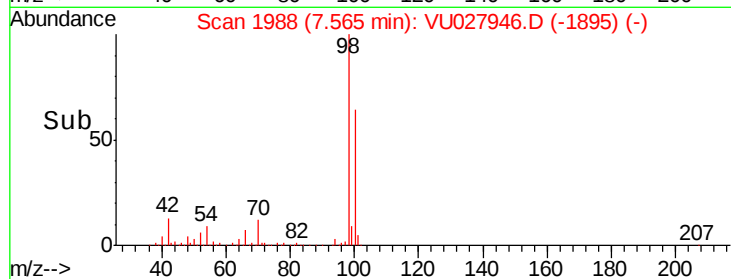
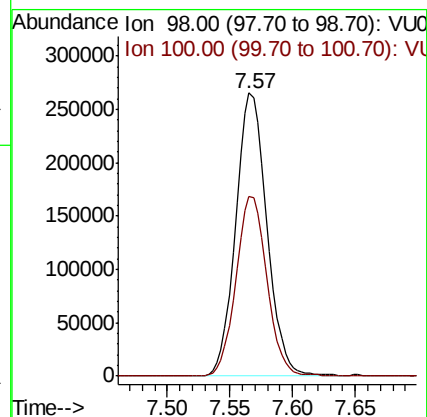
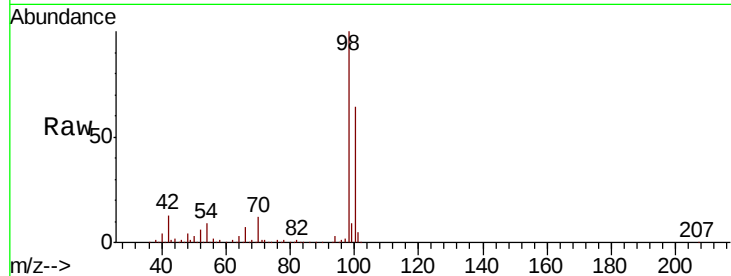




#50
Toluene-d8
Concen: 52.254 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

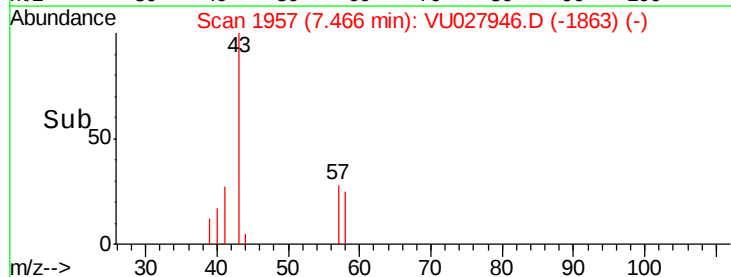
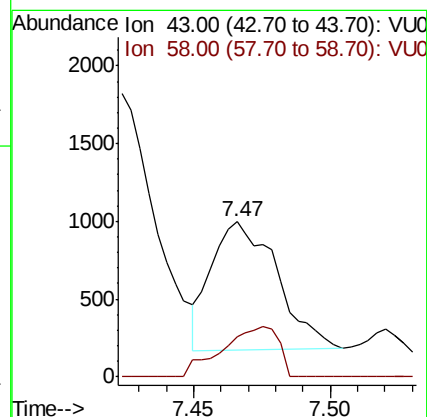
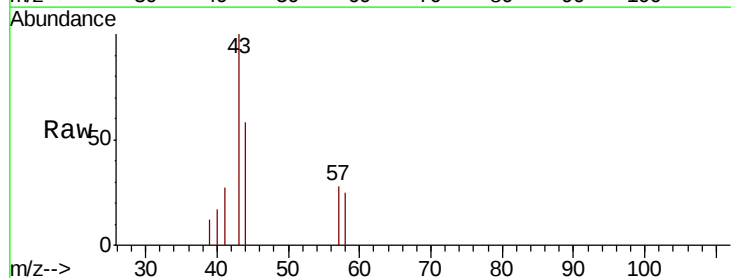
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

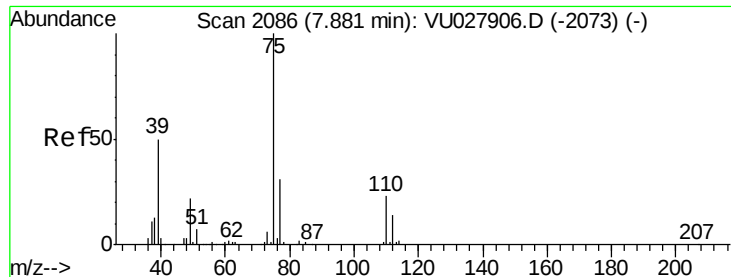
Tot Ion: 98 Resp: 458594
Ion Ratio Lower Upper
98 100
100 63.2 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 0.236 ug/l
RT: 7.47 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
58 33.5 29.5 44.3





#53

t-1,3-Dichloropropene

Concen: 1.123 ug/l

RT: 7.90 min Scan# 2092

Delta R.T. 0.02 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

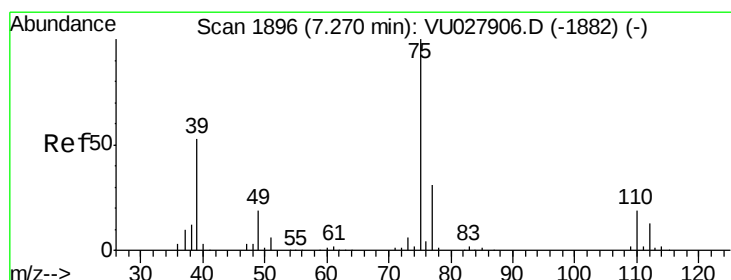
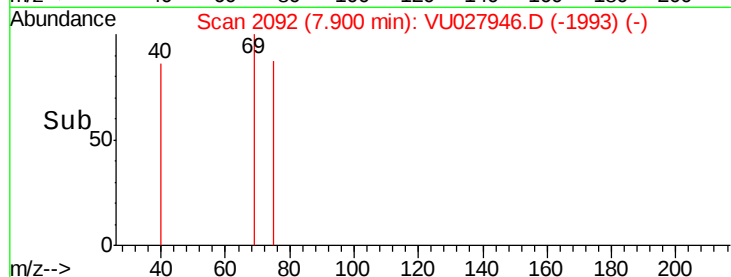
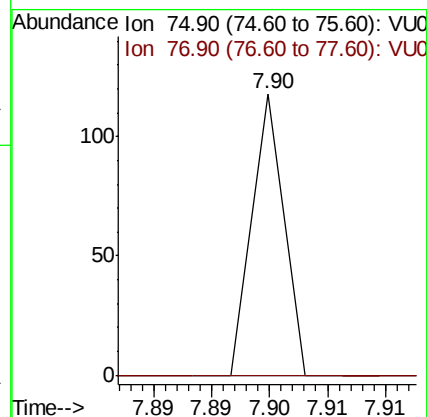
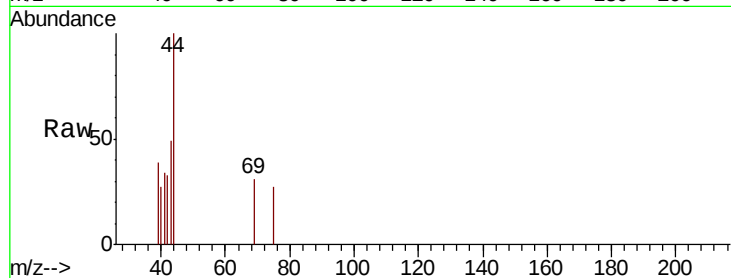
PB114473ZHE#01

Tot Ion: 75 Resp: 23

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 0.288 ug/l

RT: 7.43 min Scan# 1945

Delta R.T. 0.16 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

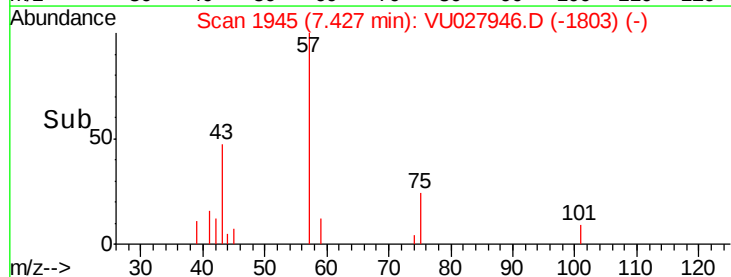
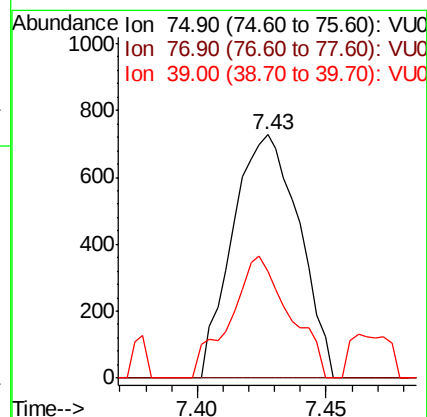
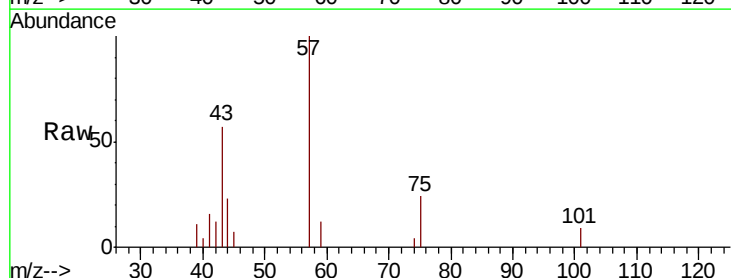
Tgt Ion: 75 Resp: 1307

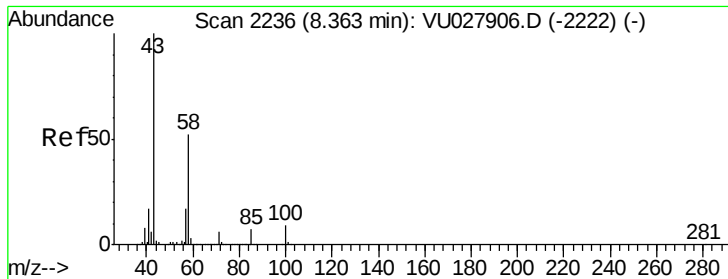
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 44.0 42.6 64.0

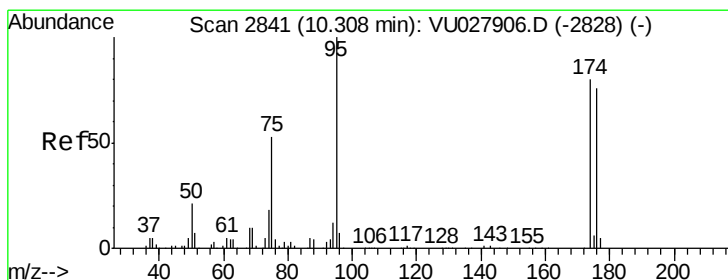
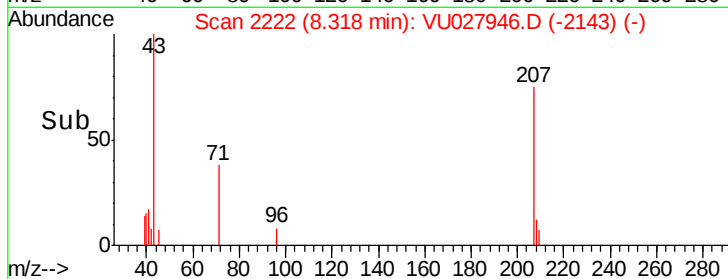
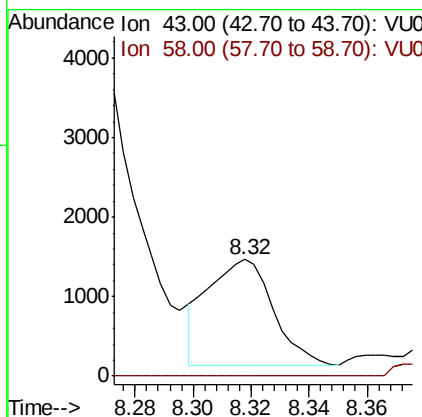
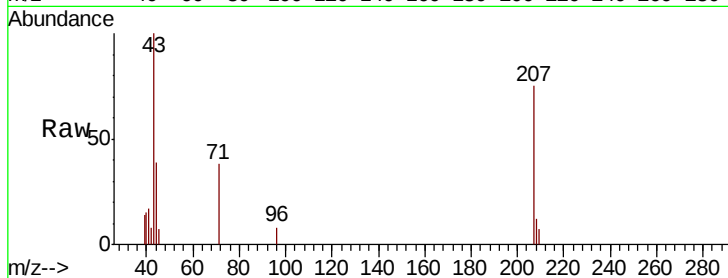




#59
2-Hexanone
Concen: 0.467 ug/l
RT: 8.32 min Scan# 2222
Delta R.T. -0.05 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

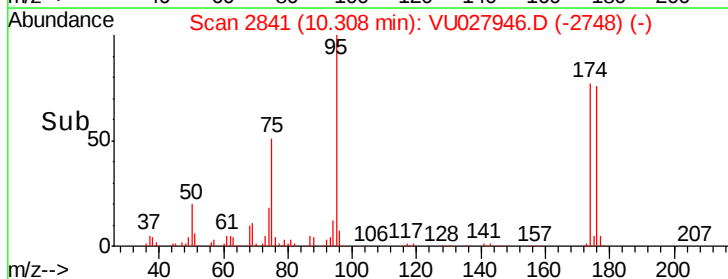
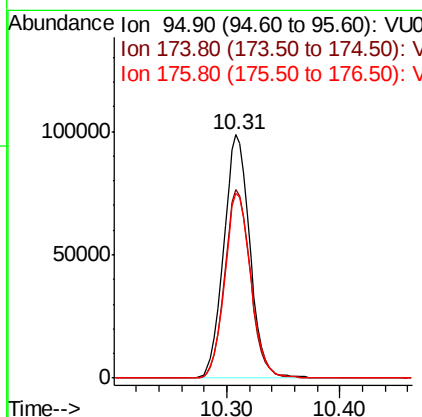
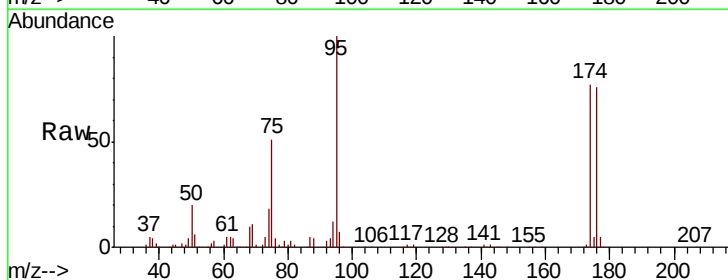
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

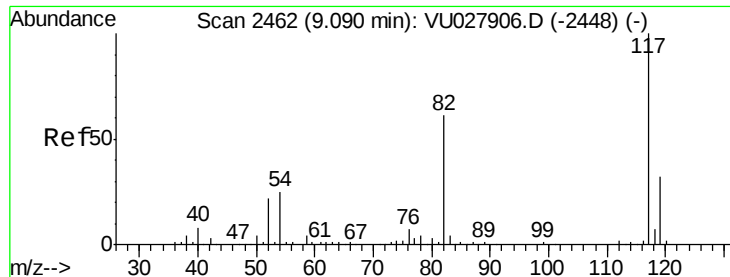
Tot Ion: 43 Resp: 2088
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 48.893 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion: 95 Resp: 158270
Ion Ratio Lower Upper
95 100
174 76.6 0.0 156.4
176 75.8 0.0 150.8

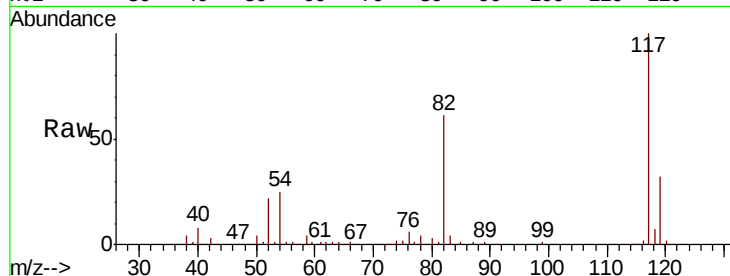




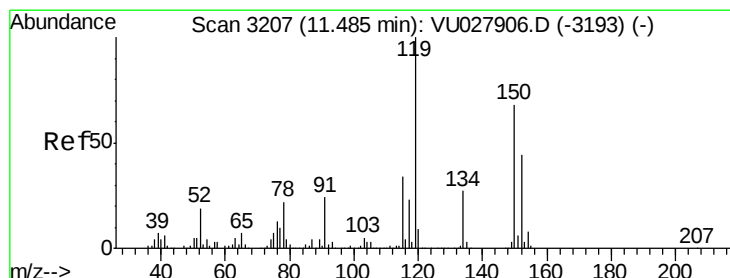
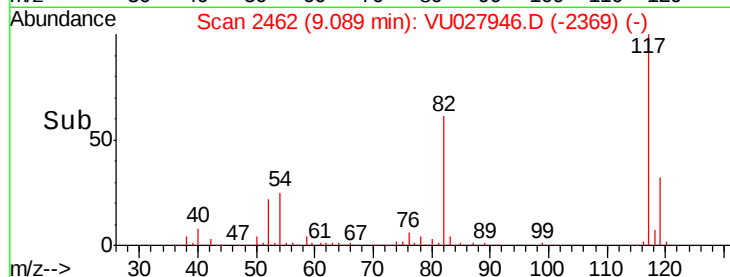
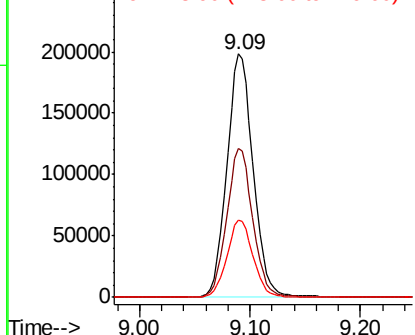
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

Tot Ion:117 Resp: 326532
Ion Ratio Lower Upper
117 100
82 61.3 48.6 73.0
119 31.8 25.8 38.8

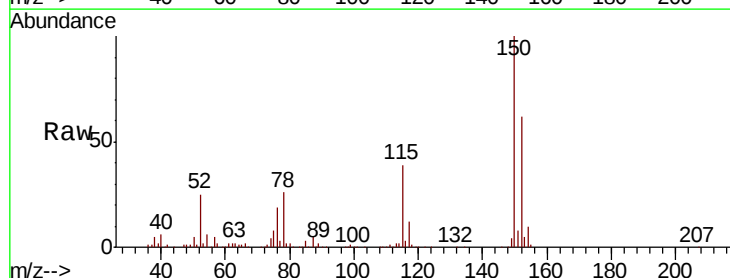


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): V

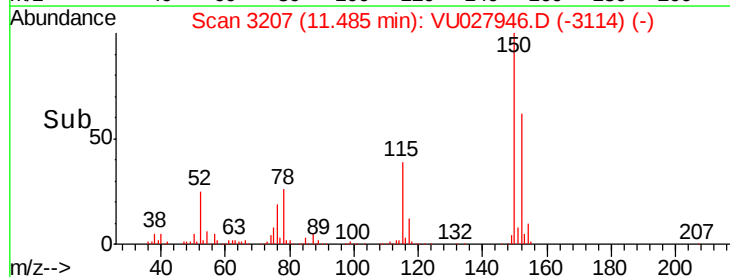
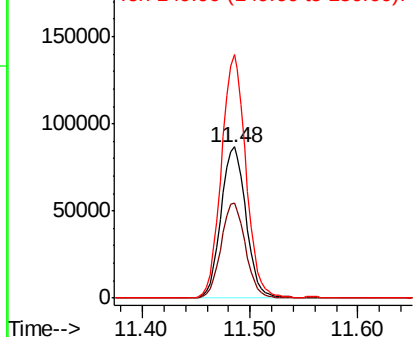


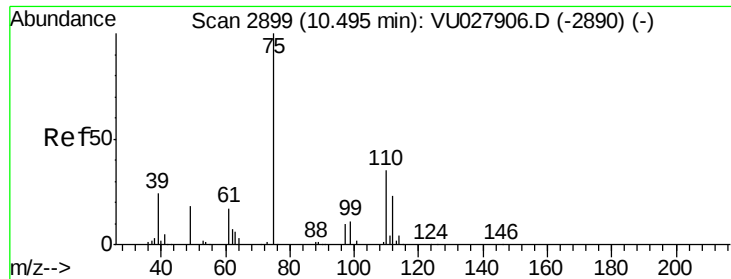
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion:152 Resp: 140221
Ion Ratio Lower Upper
152 100
115 61.1 43.0 129.0
150 157.0 0.0 349.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): VU027906.D (-3193) (-)
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.793 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

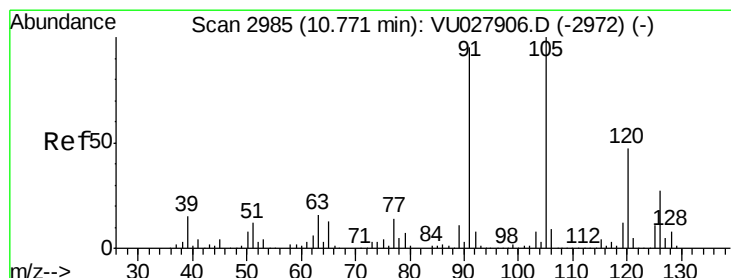
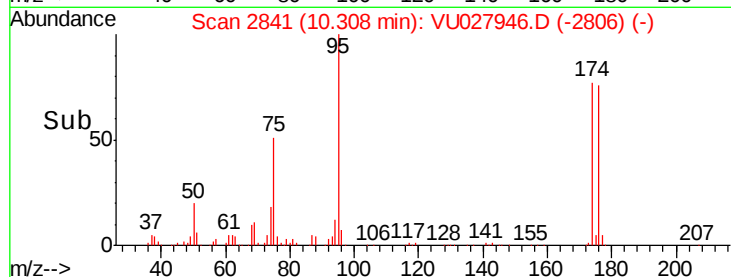
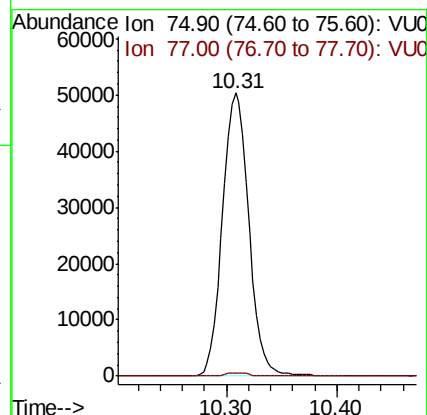
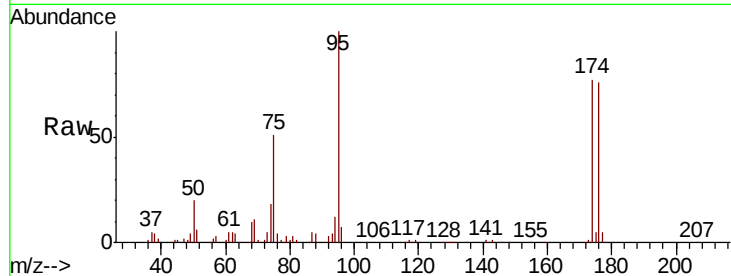
PB114473ZHE#01

Tot Ion: 75 Resp: 83587

Ion Ratio Lower Upper

75 100

77 1.1 21.6 64.6#



#80

1,3,5-Trimethylbenzene

Concen: 0.236 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027946.D

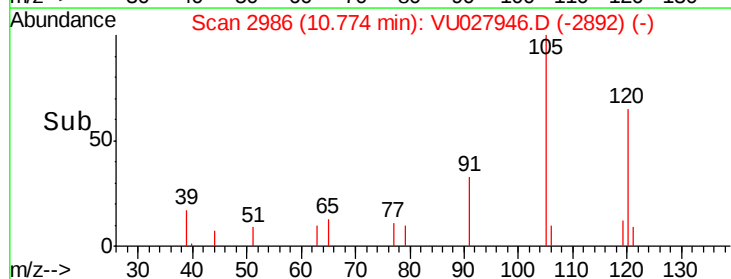
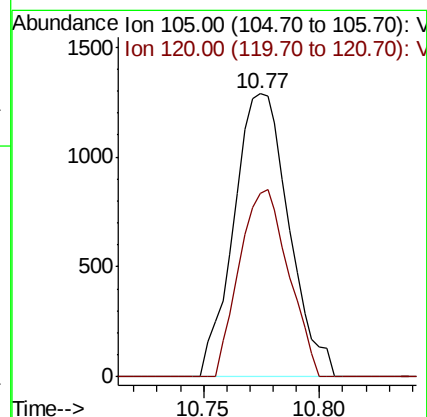
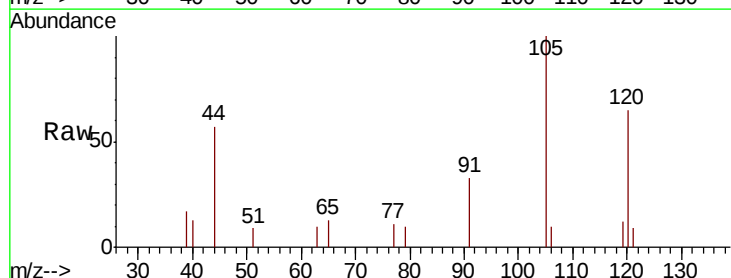
Acq: 05 Nov 2018 10:53

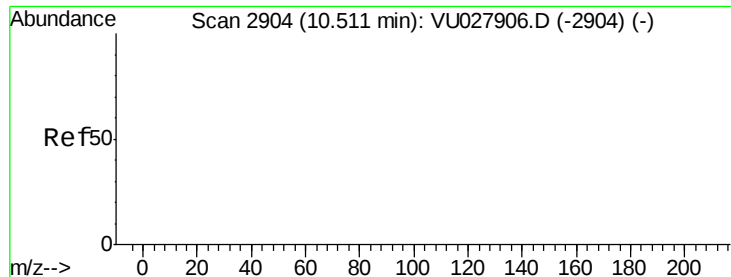
Tgt Ion: 105 Resp: 2124

Ion Ratio Lower Upper

105 100

120 58.9 23.3 69.9

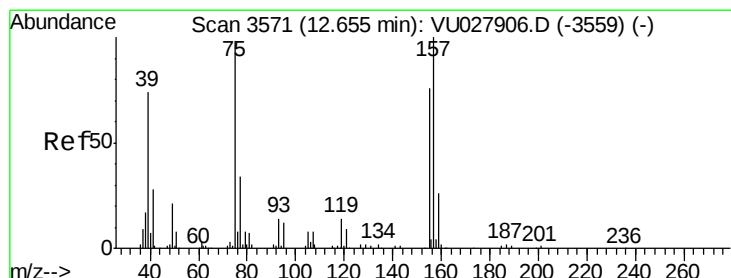
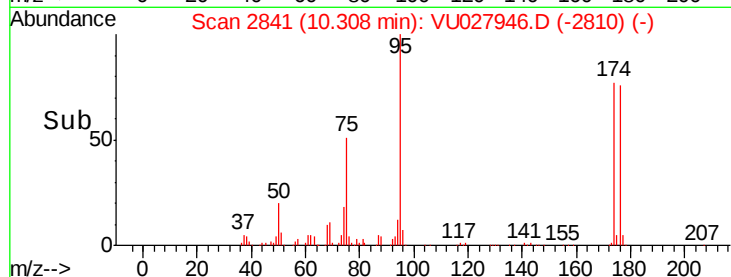
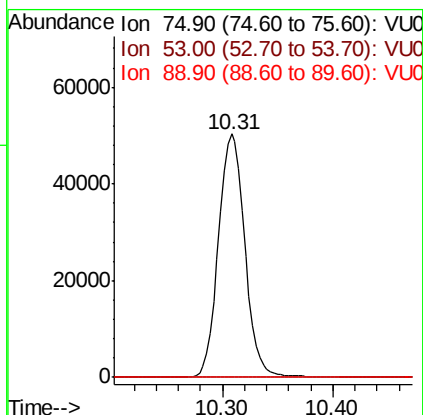
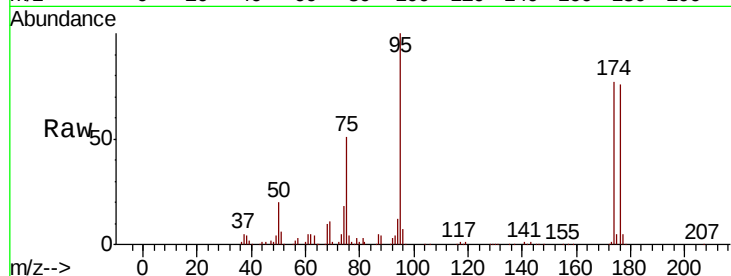




#81
trans-1,4-Dichloro-2-butene
Concen: 54.390 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

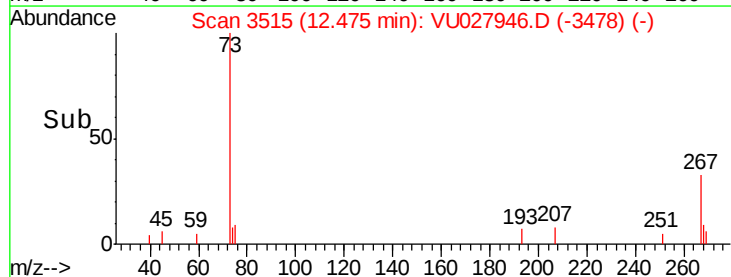
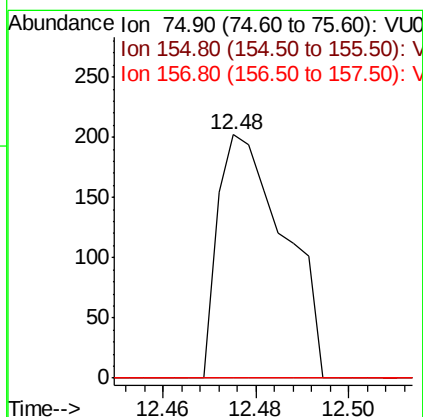
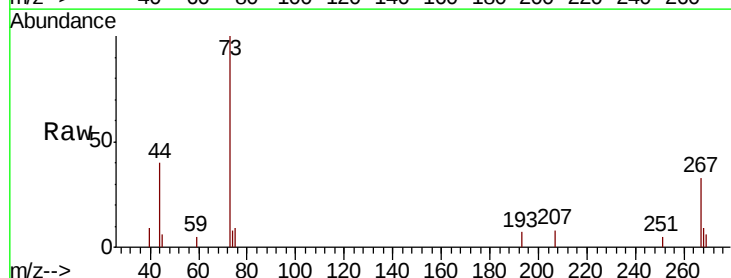
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#01

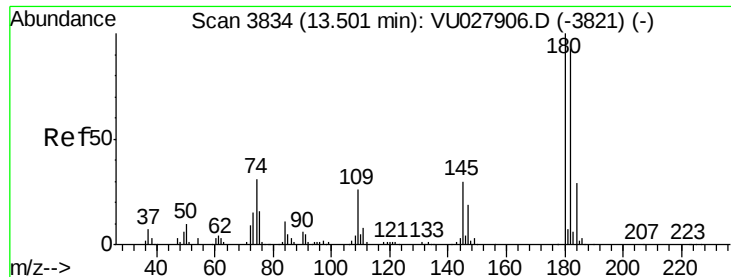
Tot Ion: 75 Resp: 83587
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.218 ug/l
RT: 12.48 min Scan# 3515
Delta R.T. -0.18 min
Lab File: VU027946.D
Acq: 05 Nov 2018 10:53

Tgt Ion: 75 Resp: 201
Ion Ratio Lower Upper
75 100
155 0.0 39.8 119.3#
157 0.0 50.6 151.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.756 ug/l

RT: 13.52 min Scan# 3841

Delta R.T. 0.02 min

Lab File: VU027946.D

Acq: 05 Nov 2018 10:53

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#01

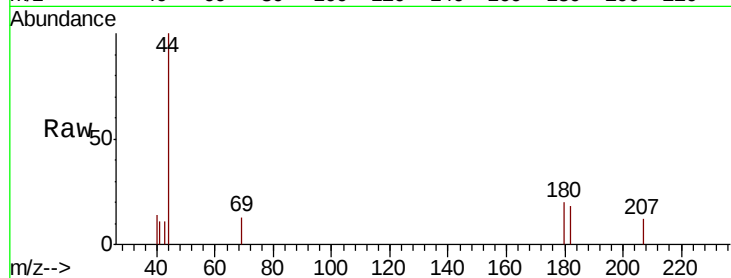
Tot Ion:180 Resp: 236

Ion Ratio Lower Upper

180 100

182 111.0 48.4 145.2

145 0.0 14.9 44.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

