

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110518\
 Data File : VU027954.D
 Acq On : 05 Nov 2018 13:59
 Operator : MD/SY
 Sample : PB114473ZHE#09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#09

Quant Time: Nov 06 03:23:49 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	193919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	356541	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	318604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	136700	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	155628	53.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.96%	
35) Dibromofluoromethane	4.89	113	114917	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
50) Toluene-d8	7.57	98	455389	52.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.88%	
62) 4-Bromofluorobenzene	10.31	95	155770	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	

Target Compounds

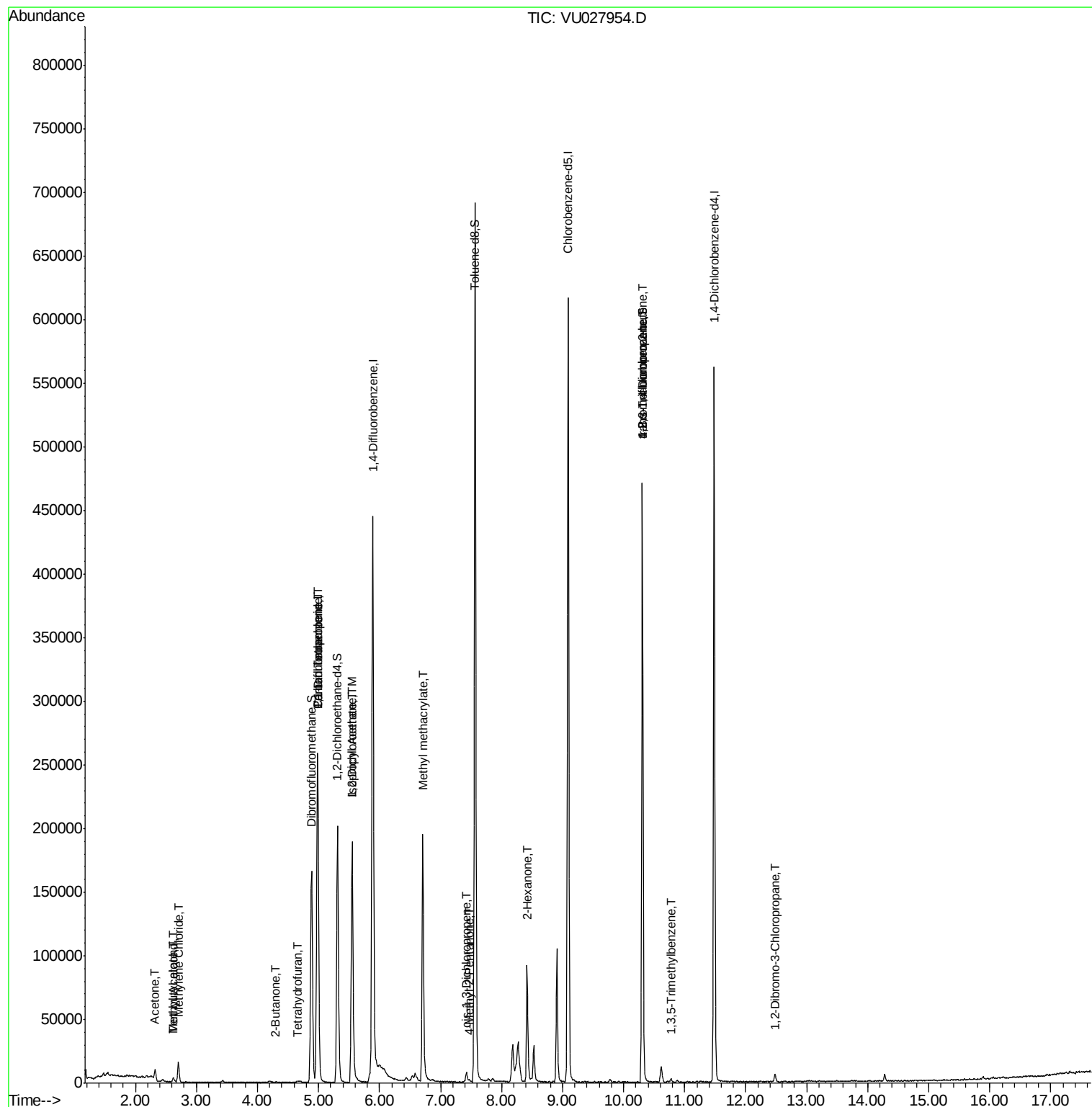
						Qvalue
11) Tert butyl alcohol	2.62	59	155	0.203	ug/l #	73
13) Acrolein	2.19	56	65	Below Cal	#	1
16) Acetone	2.32	43	10288	5.751	ug/l	93
18) Methyl Acetate	2.62	43	5354	1.088	ug/l	94
20) Methylene Chloride	2.71	84	6929	2.653	ug/l	96
25) 2-Butanone	4.29	43	1439	0.506	ug/l #	54
29) Tetrahydrofuran	4.67	42	1022	0.538	ug/l #	49
31) Cyclohexane	4.98	56	4759	Below Cal	#	8
36) 1,1-Dichloropropene	4.99	75	16717	4.477	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18927	5.719	ug/l #	16
42) 1,2-Dichloroethane	5.56	62	830	0.205	ug/l #	76
43) Isopropyl Acetate	5.55	43	229139	26.731	ug/l	99
48) Methyl methacrylate	6.71	41	18403	4.381	ug/l #	46
51) 4-Methyl-2-Pentanone	7.47	43	1254	0.219	ug/l #	85
54) cis-1,3-Dichloropropene	7.42	75	1272	0.283	ug/l #	64
59) 2-Hexanone	8.42	43	14062	3.176	ug/l #	55
76) 1,2,3-Trichloropropane	10.31	75	81367	21.761	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2055	0.234	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	81367	54.310	ug/l #	100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	208	0.231	ug/l #	4
95) Naphthalene	13.78	128	43	Below Cal	#	69

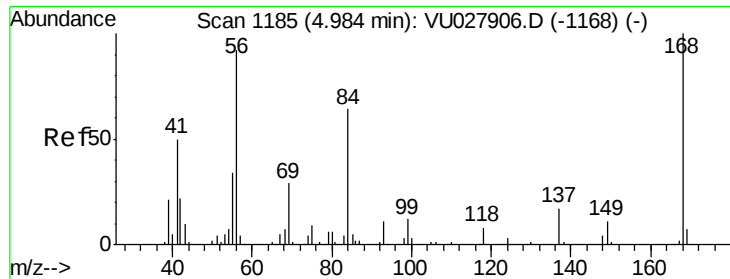
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 06 03:23:49 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: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

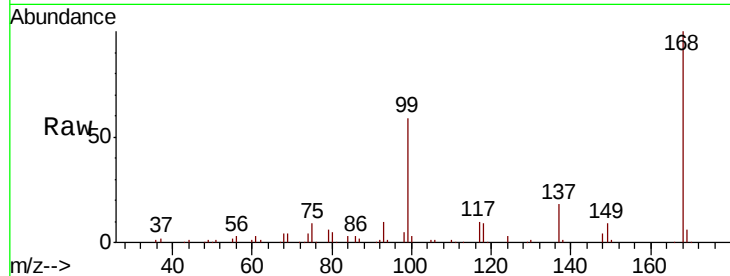
PB114473ZHE#09

Tot Ion:168 Resp: 193919

Ion Ratio Lower Upper

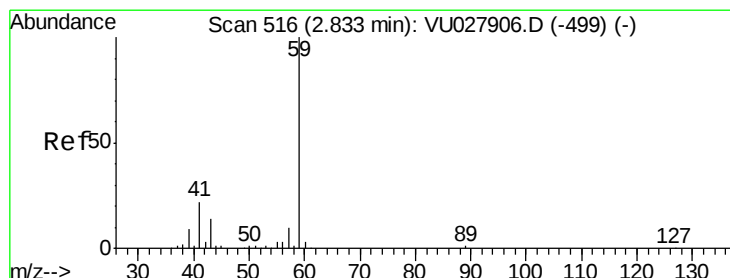
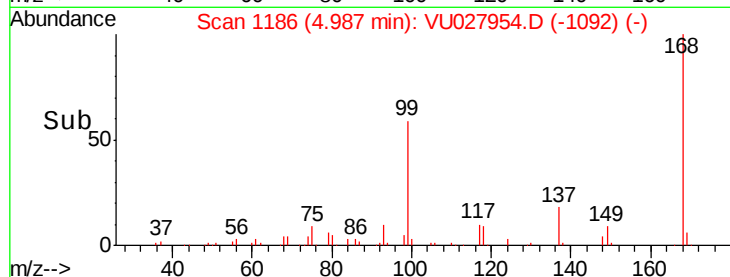
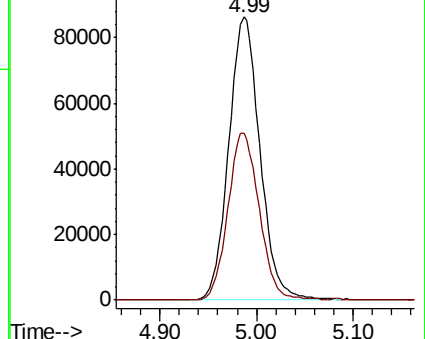
168 100

99 59.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027954.D (-1092) (-)



#11

Tert butyl alcohol

Concen: 0.203 ug/l

RT: 2.62 min Scan# 451

Delta R.T. -0.21 min

Lab File: VU027954.D

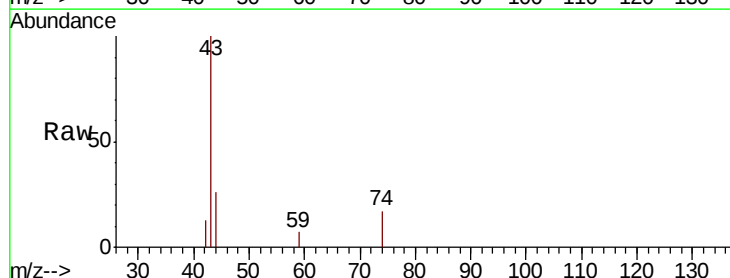
Acq: 05 Nov 2018 13:59

Tgt Ion: 59 Resp: 155

Ion Ratio Lower Upper

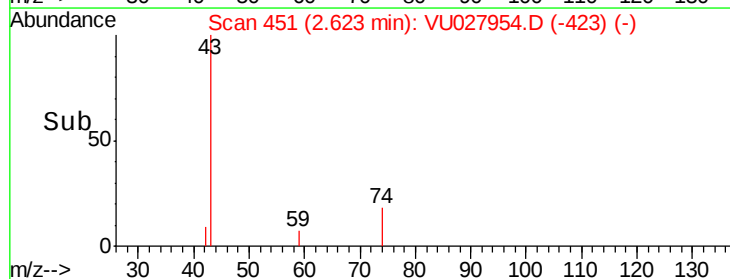
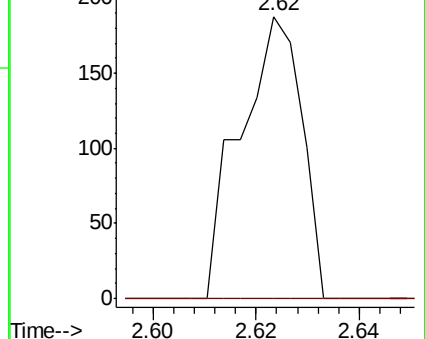
59 100

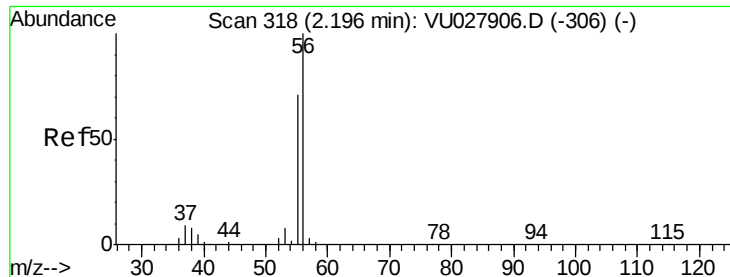
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027954.D (-423) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

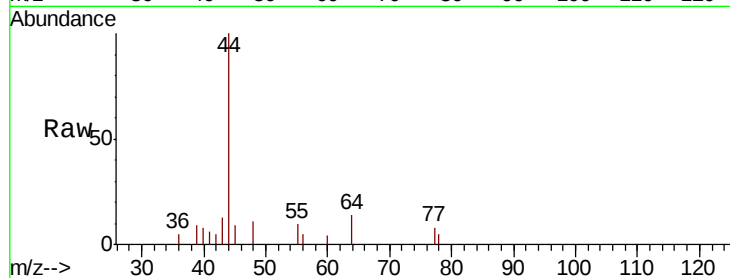
PB114473ZHE#09

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

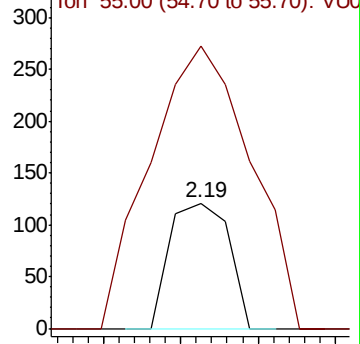
56 100

55 381.5 56.2 84.4#

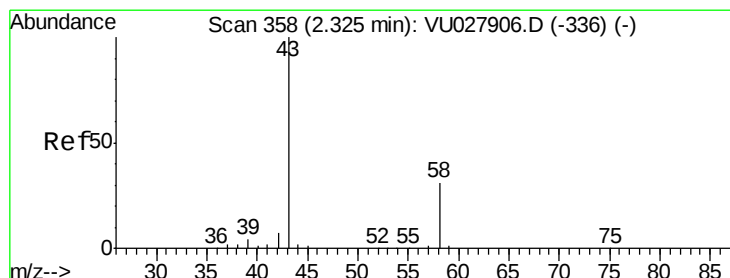
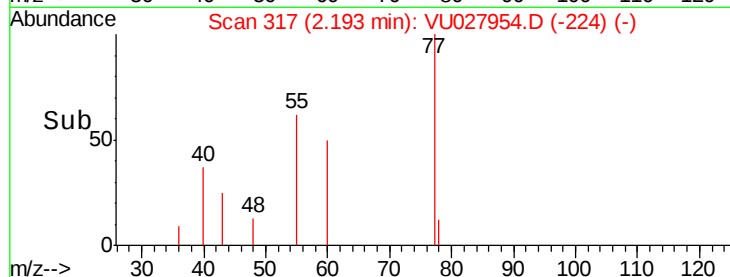


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



Time-->



#16

Acetone

Concen: 5.751 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027954.D

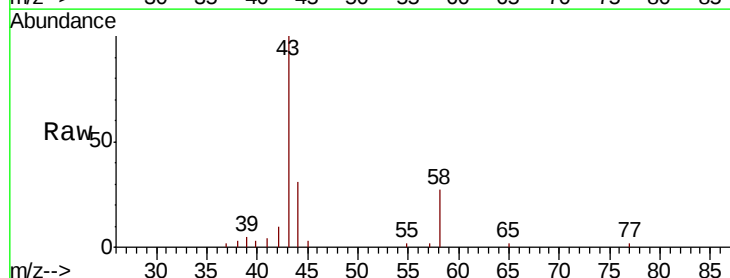
Acq: 05 Nov 2018 13:59

Tgt Ion: 43 Resp: 10288

Ion Ratio Lower Upper

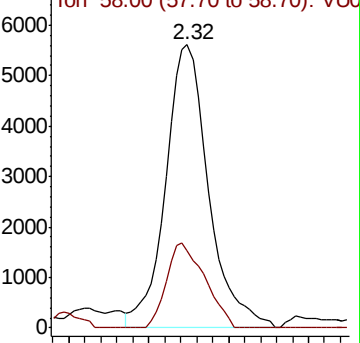
43 100

58 27.2 24.6 37.0

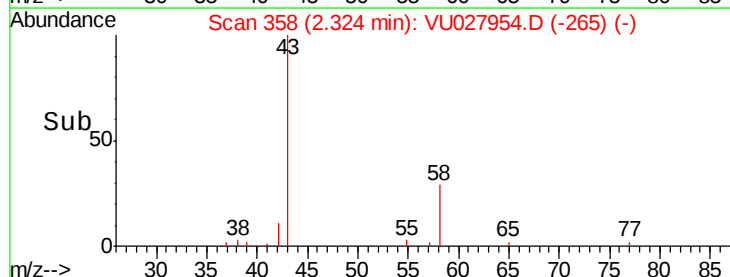


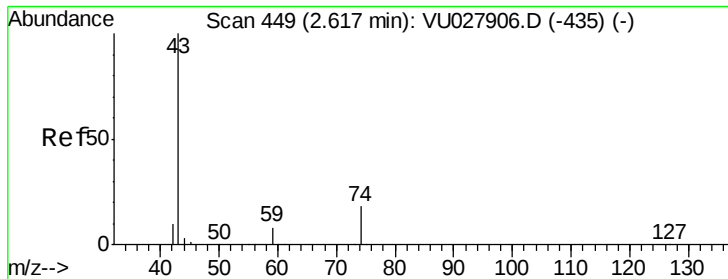
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

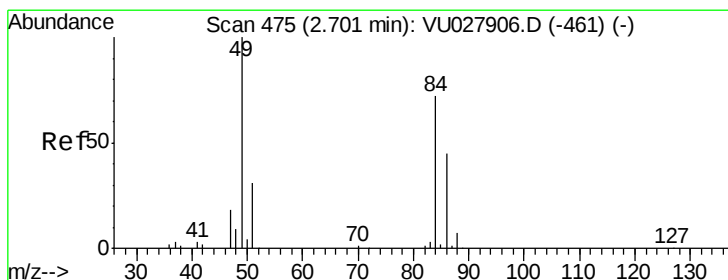
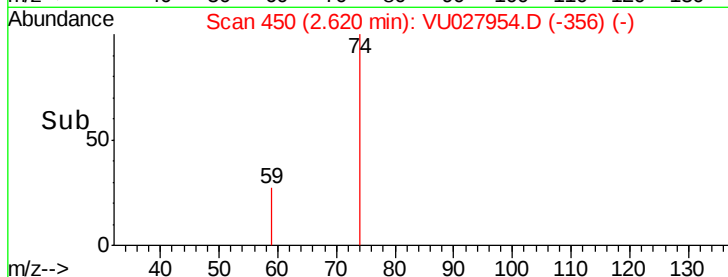
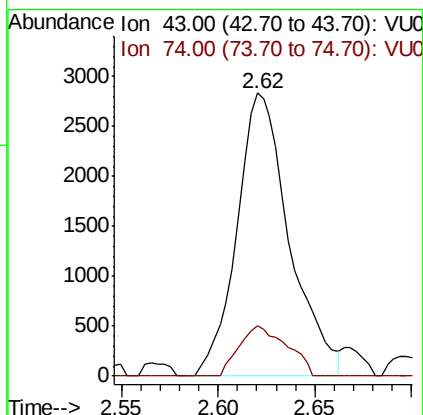
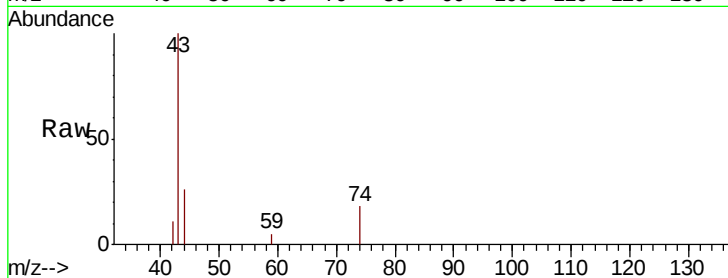




#18
Methyl Acetate
Concen: 1.088 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

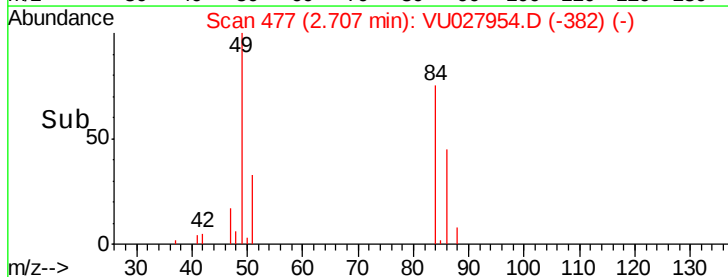
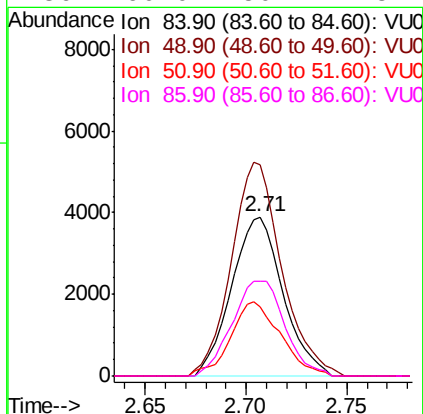
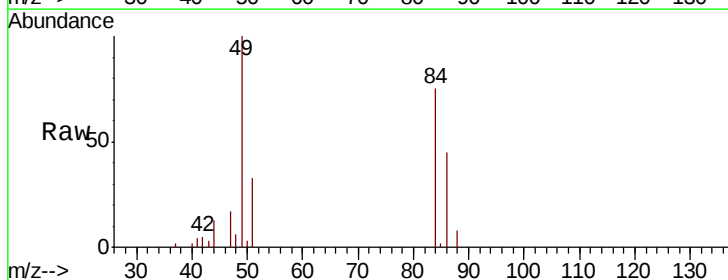
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#09

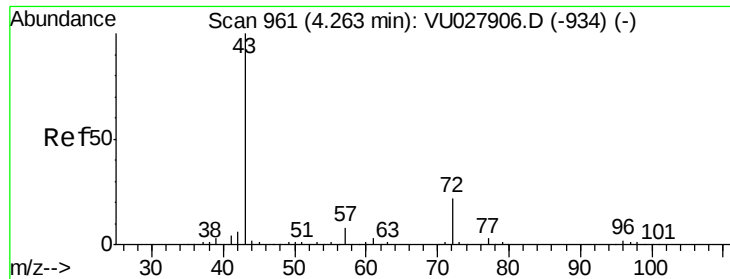
Tot Ion: 43 Resp: 5354
Ion Ratio Lower Upper
43 100
74 16.0 14.9 22.3



#20
Methylene Chloride
Concen: 2.653 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

Tgt Ion: 84 Resp: 6929
Ion Ratio Lower Upper
84 100
49 132.8 111.6 167.4
51 43.2 34.8 52.2
86 60.0 50.1 75.1





#25

2-Butanone

Concen: 0.506 ug/l

RT: 4.29 min Scan# 970

Delta R.T. 0.03 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

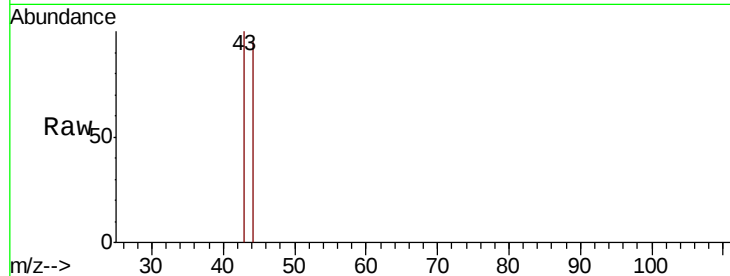
PB114473ZHE#09

Tot Ion: 43 Resp: 1439

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.29

600

500

400

300

200

100

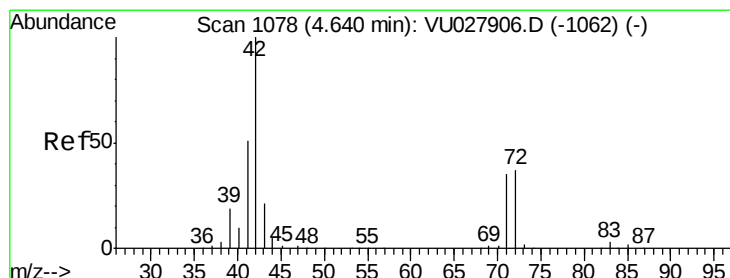
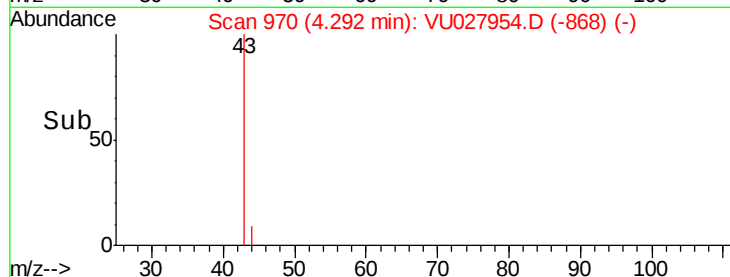
0

4.25

4.30

4.35

Time-->



#29

Tetrahydrofuran

Concen: 0.538 ug/l

RT: 4.67 min Scan# 1086

Delta R.T. 0.03 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

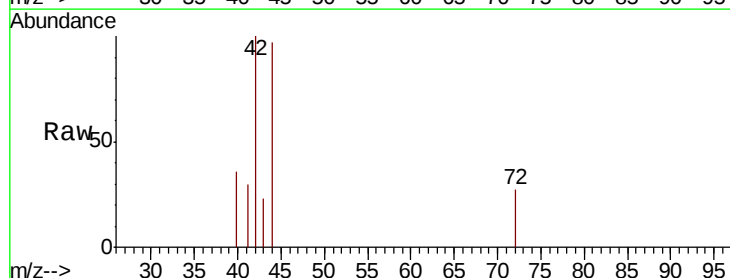
Tgt Ion: 42 Resp: 1022

Ion Ratio Lower Upper

42 100

72 7.6 29.4 44.0#

71 4.1 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

600

500

400

300

200

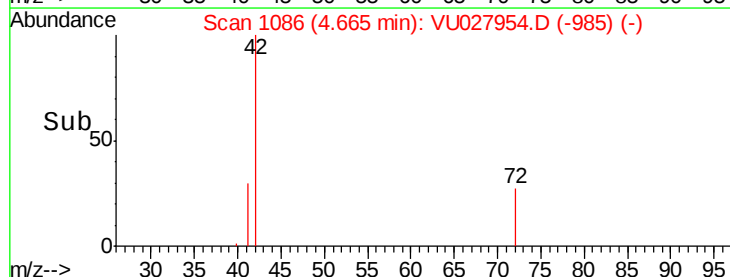
100

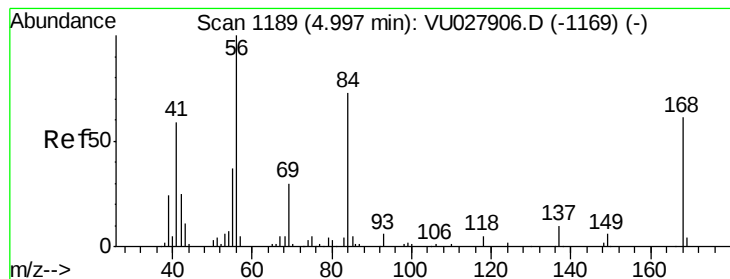
0

4.65

4.70

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#09

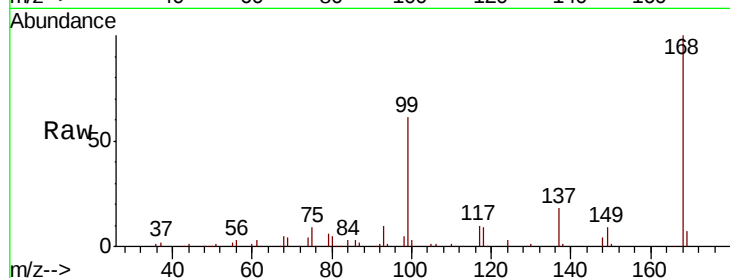
Tot Ion: 56 Resp: 4759

Ion Ratio Lower Upper

56 100

69 151.4 23.7 35.5#

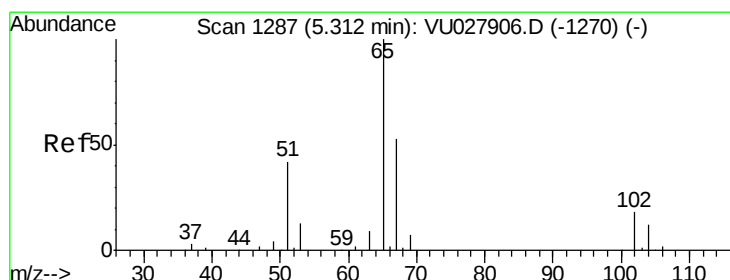
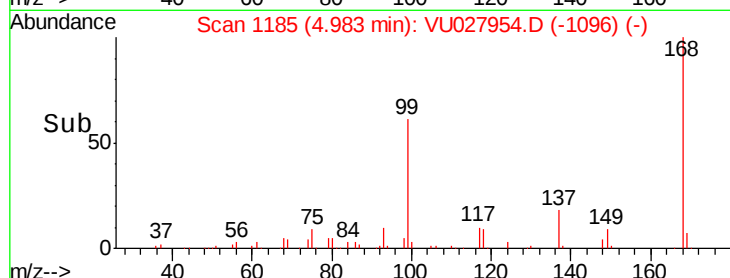
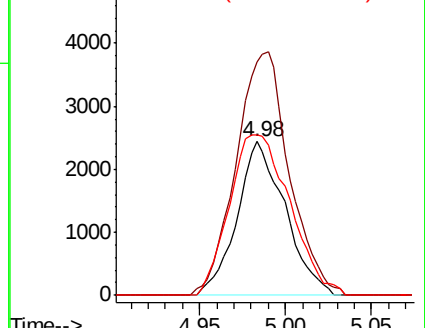
84 104.1 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-1169) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1169) (-)

Ion 84.00 (83.70 to 84.70): VU027906.D (-1169) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.980 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027954.D

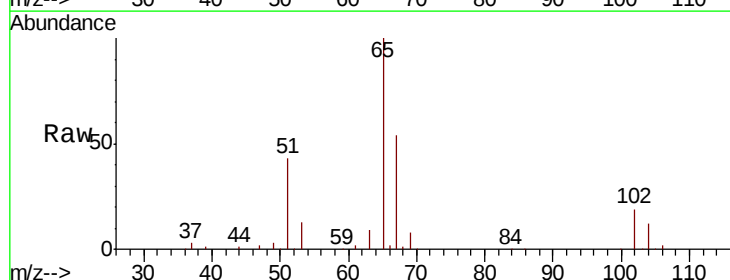
Acq: 05 Nov 2018 13:59

Tgt Ion: 65 Resp: 155628

Ion Ratio Lower Upper

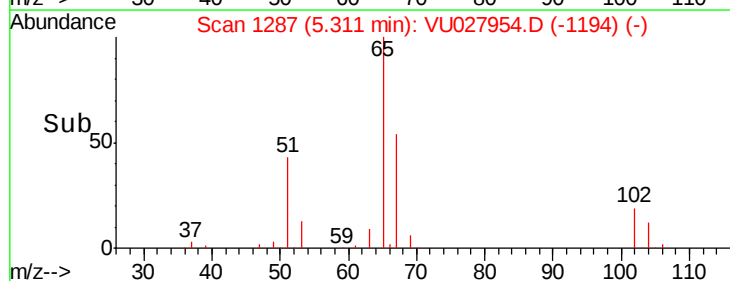
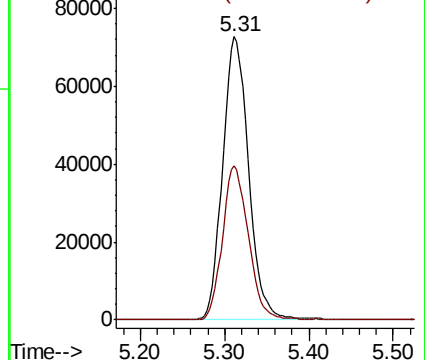
65 100

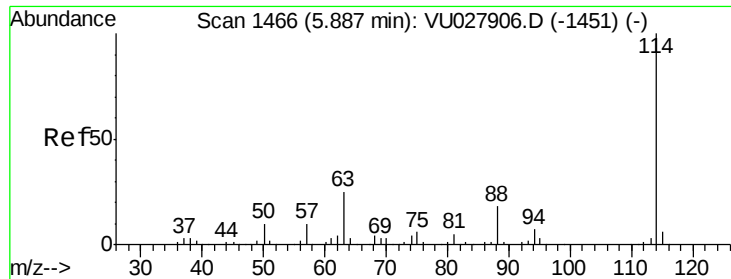
67 54.0 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU027906.D (-1270) (-)

Ion 66.90 (66.60 to 67.60): VU027906.D (-1270) (-)

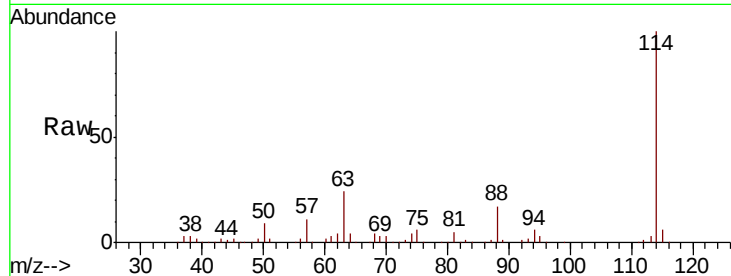




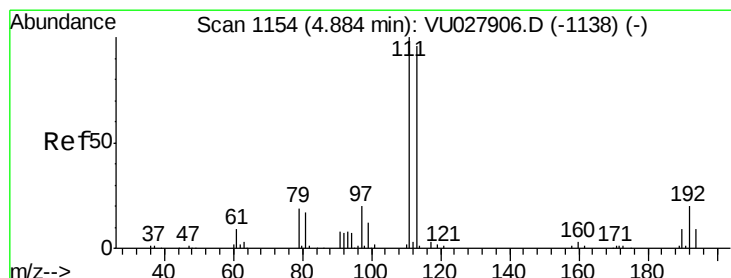
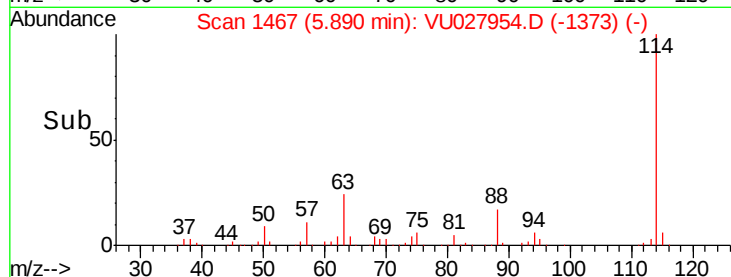
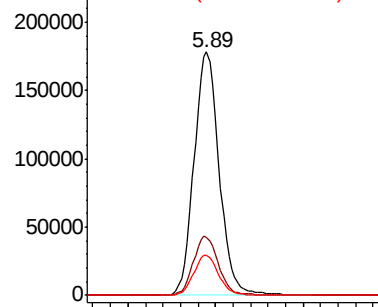
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027954.D
 Acq: 05 Nov 2018 13:59

Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#09

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	50.8
88	16.5	0.0	35.8

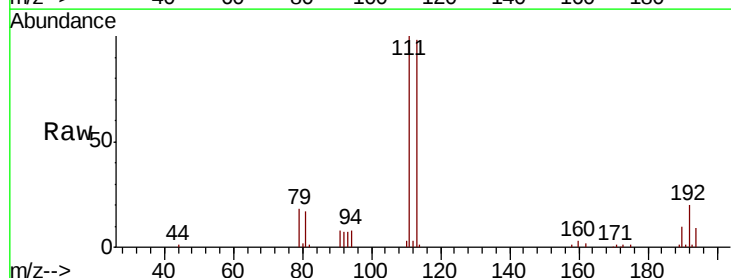


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

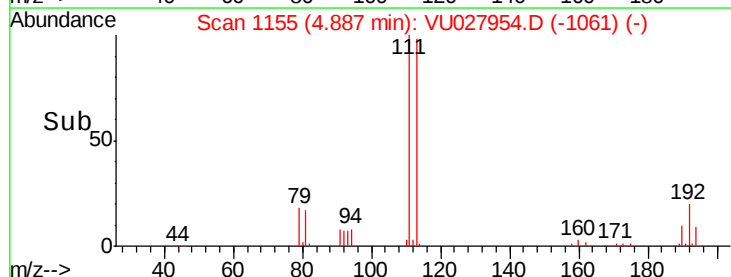
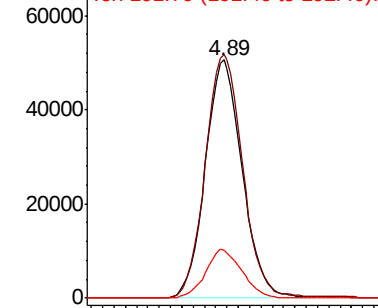


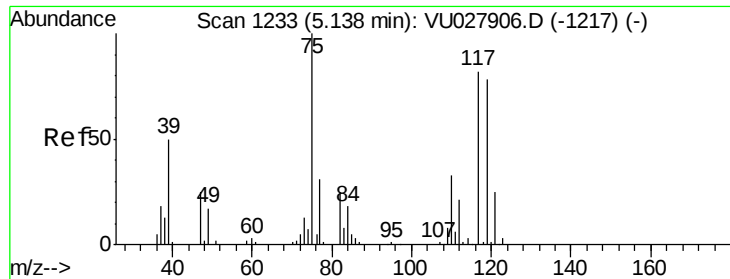
#35
 Dibromofluoromethane
 Concen: 51.119 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027954.D
 Acq: 05 Nov 2018 13:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	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: 4.477 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#09

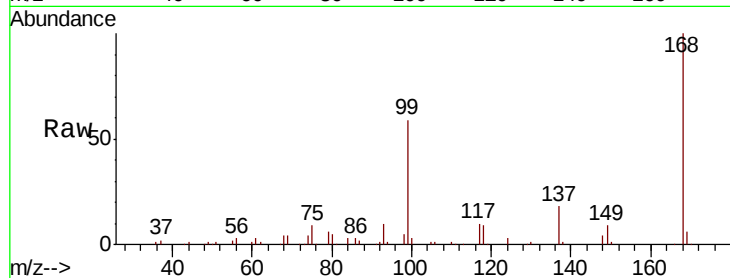
Tot Ion: 75 Resp: 16717

Ion Ratio Lower Upper

75 100

110 8.3 16.5 49.5#

77 0.0 24.9 37.3#

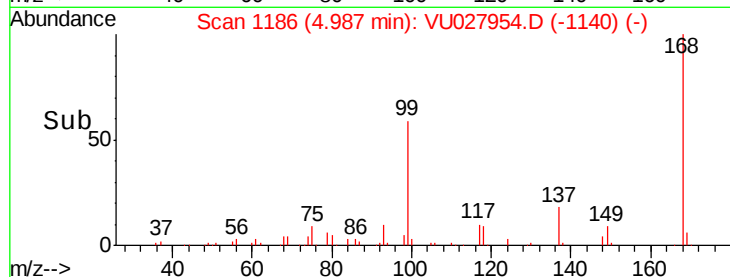


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)

Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

Time-->



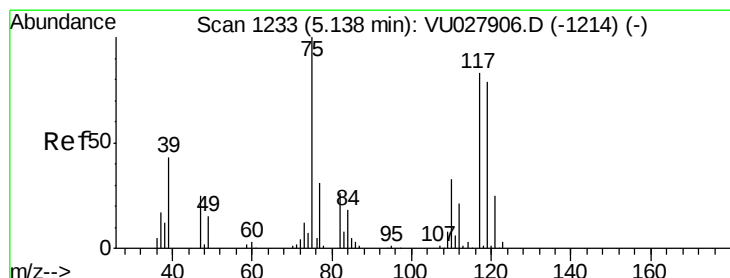
Abundance

Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)

Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.719 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

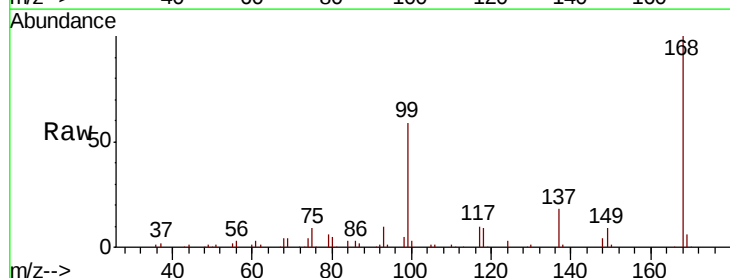
Tgt Ion: 117 Resp: 18927

Ion Ratio Lower Upper

117 100

119 5.0 76.0 114.0#

121 0.0 24.5 36.7#

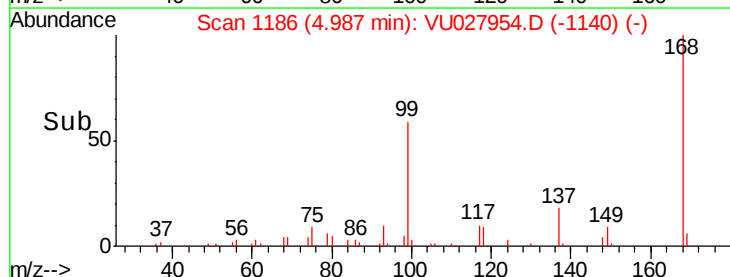


Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

Time-->



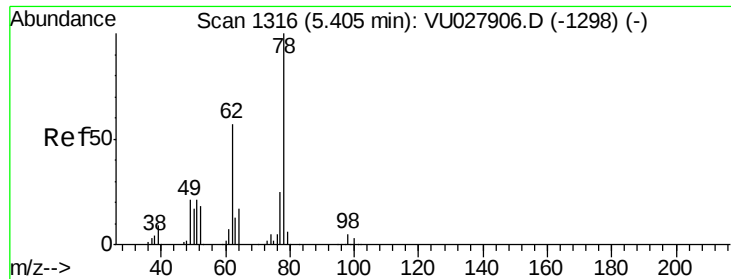
Abundance

Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

Time-->



#42

1,2-Dichloroethane

Concen: 0.205 ug/l

RT: 5.56 min Scan# 1364

Delta R.T. 0.15 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

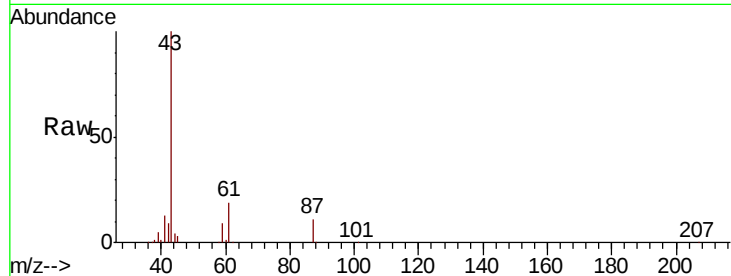
PB114473ZHE#09

Tot Ion: 62 Resp: 830

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

5.56

500

400

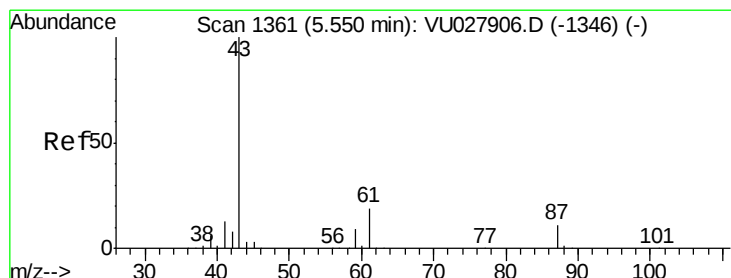
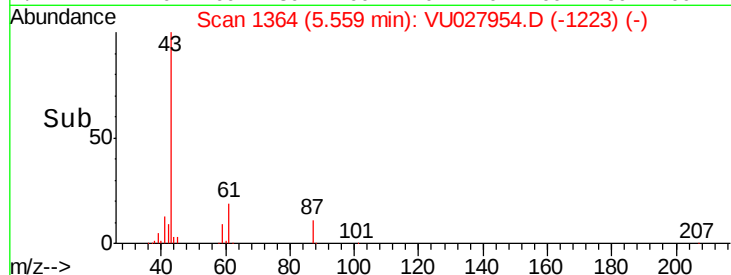
300

200

100

0

Time--> 5.50 5.55 5.60



#43

Isopropyl Acetate

Concen: 26.731 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

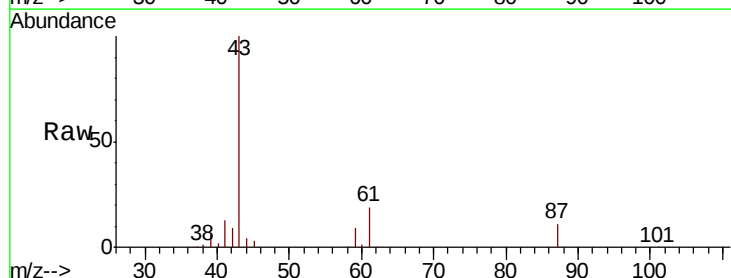
Tgt Ion: 43 Resp: 229139

Ion Ratio Lower Upper

43 100

61 18.8 15.0 22.4

87 10.3 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

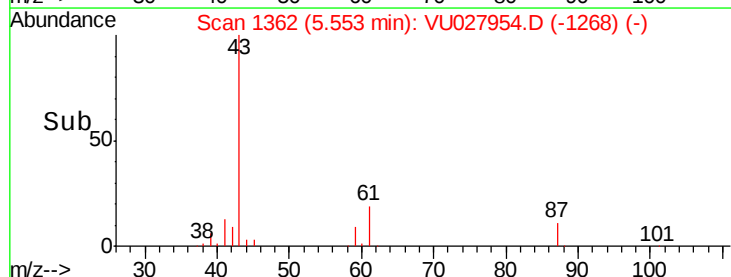
Ion 87.00 (86.70 to 87.70): VU0

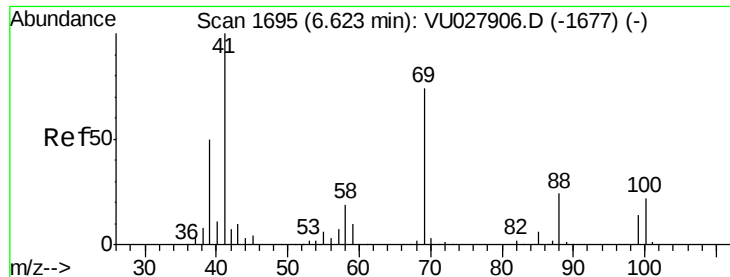
100000

50000

0

Time--> 5.50 5.55 5.60 5.70





#48

Methvl methacrylate

Concen: 4.381 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#09

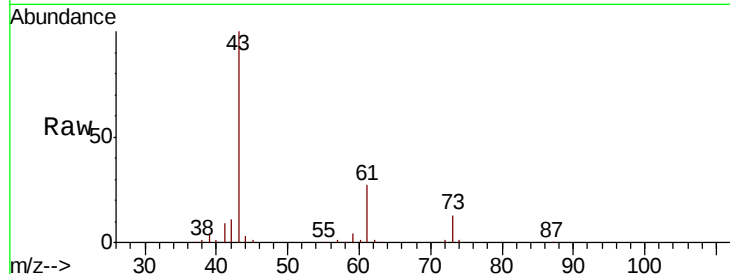
Tot Ion: 41 Resp: 18403

Ion Ratio Lower Upper

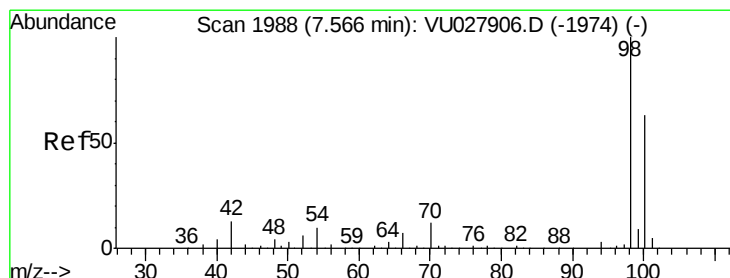
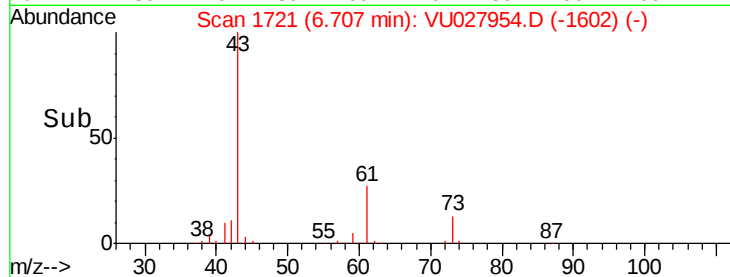
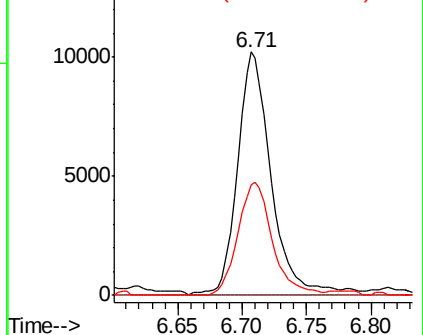
41 100

69 0.0 59.8 89.8#

39 48.0 40.0 60.0



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



#50

Toluene-d8

Concen: 52.440 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027954.D

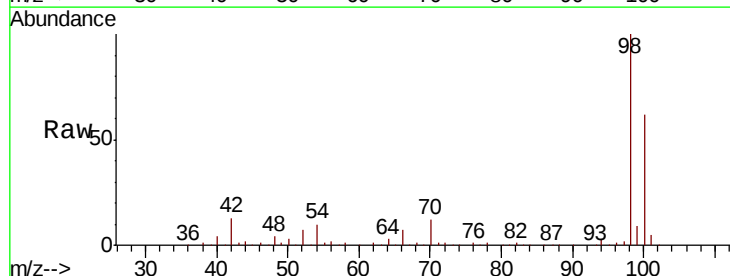
Acq: 05 Nov 2018 13:59

Tgt Ion: 98 Resp: 455389

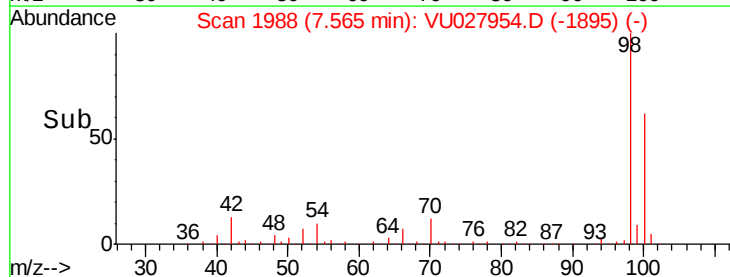
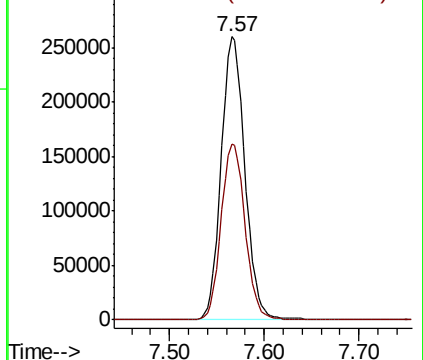
Ion Ratio Lower Upper

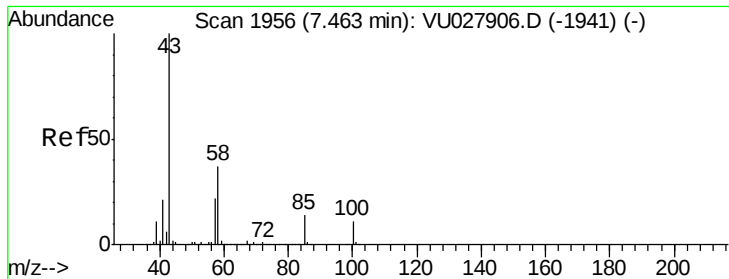
98 100

100 62.4 50.1 75.1



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: 0.219 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

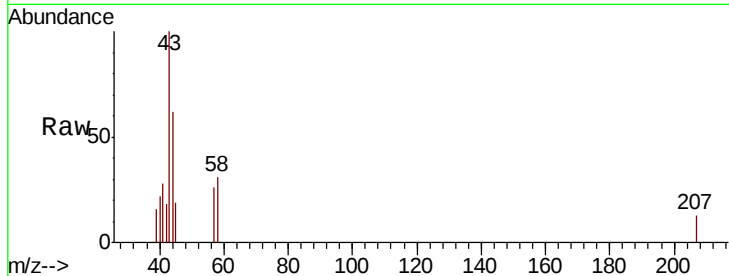
PB114473ZHE#09

Tot Ion: 43 Resp: 1254

Ion Ratio Lower Upper

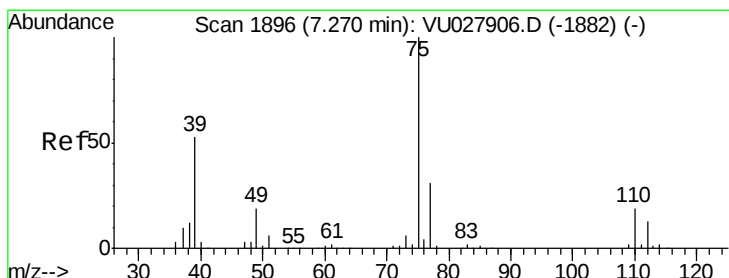
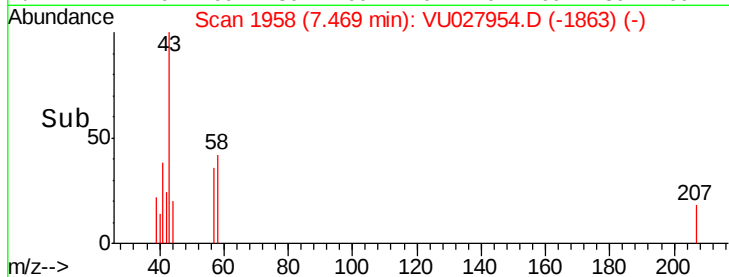
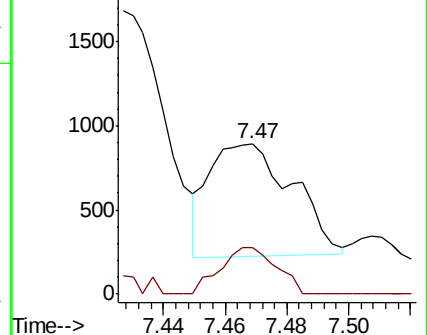
43 100

58 27.8 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)



#54

cis-1,3-Dichloropropene

Concen: 0.283 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. 0.15 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

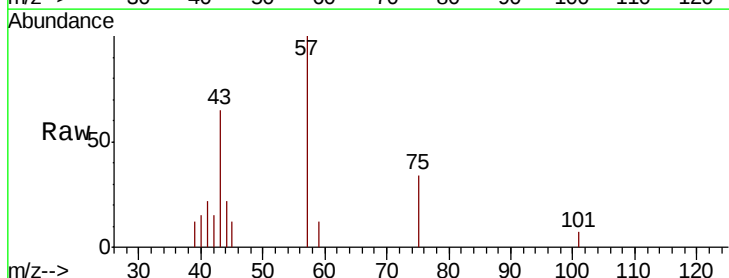
Tgt Ion: 75 Resp: 1272

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

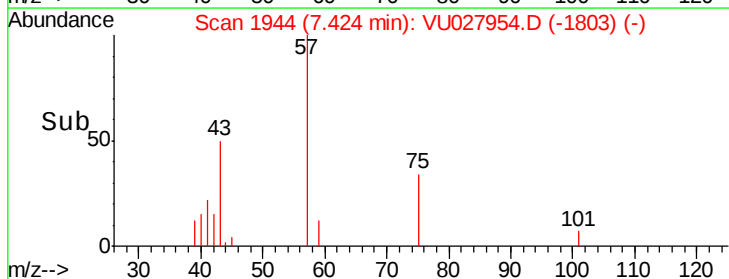
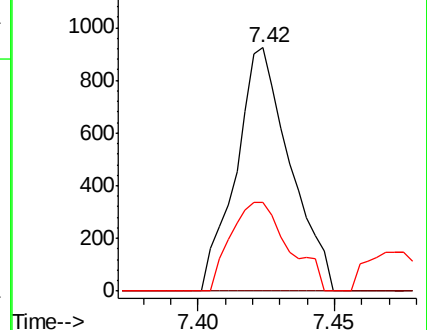
39 36.5 42.6 64.0#

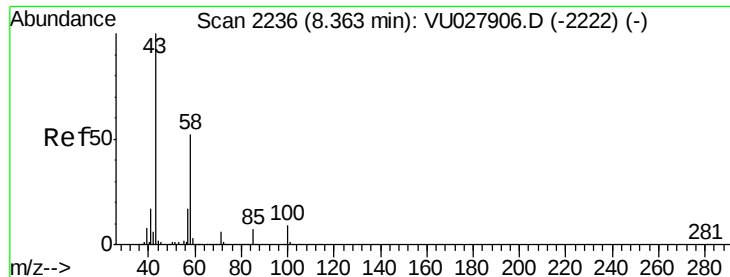


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1882) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1882) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1882) (-)

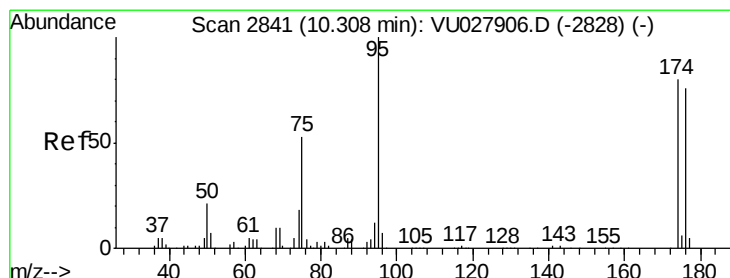
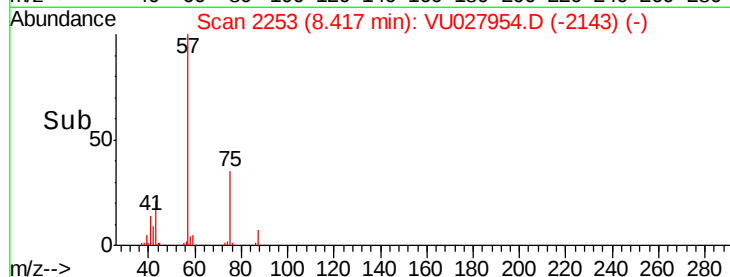
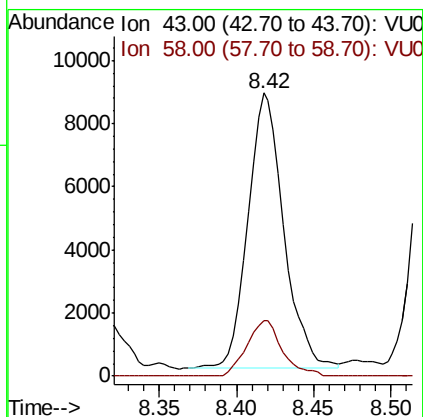
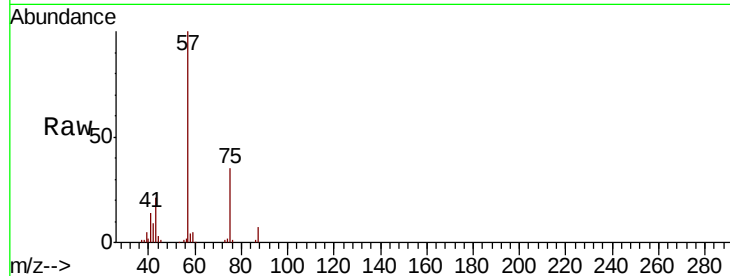




#59
2-Hexanone
Concen: 3.176 ug/l
RT: 8.42 min Scan# 2253
Delta R.T. 0.05 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

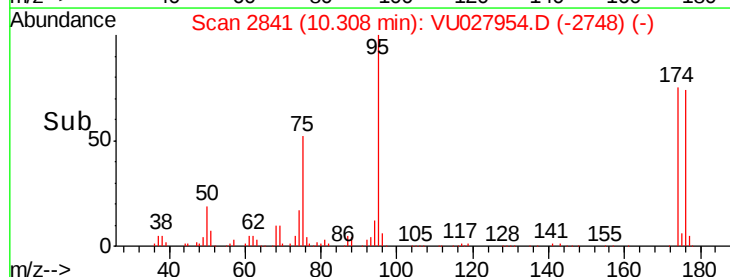
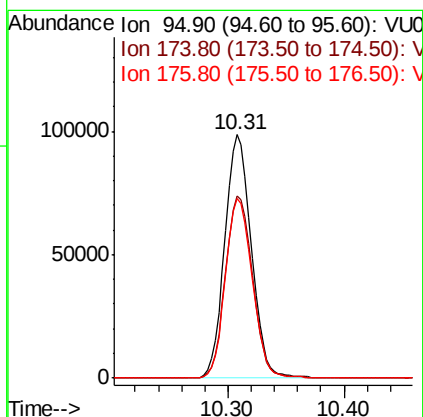
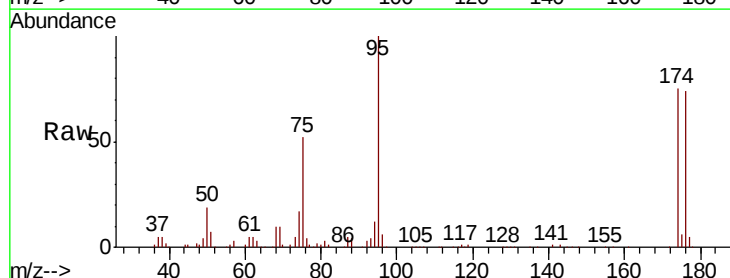
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#09

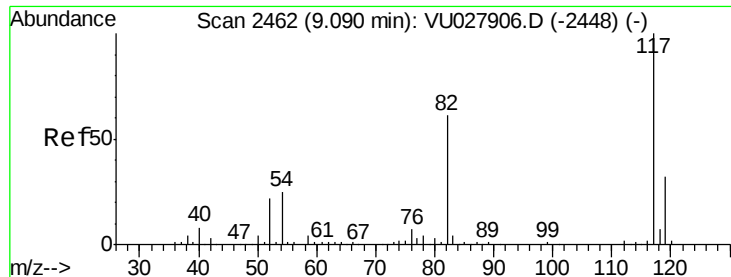
Tot Ion: 43 Resp: 14062
Ion Ratio Lower Upper
43 100
58 19.9 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 48.632 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

Tgt Ion: 95 Resp: 155770
Ion Ratio Lower Upper
95 100
174 76.8 0.0 156.4
176 74.9 0.0 150.8

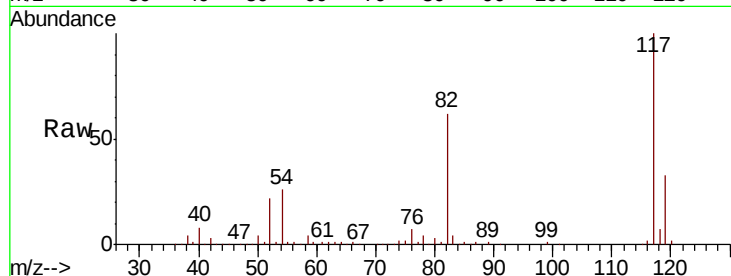




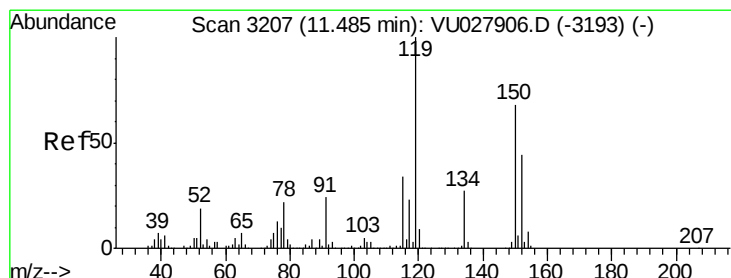
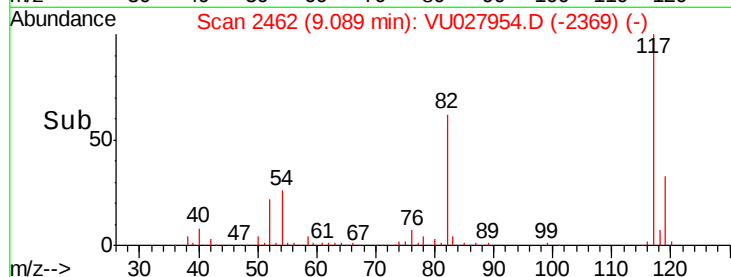
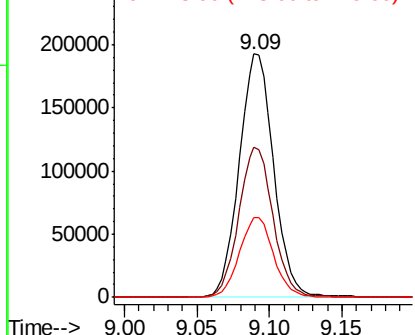
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#09

Tot Ion:117 Resp: 318604
Ion Ratio Lower Upper
117 100
82 61.8 48.6 73.0
119 32.6 25.8 38.8

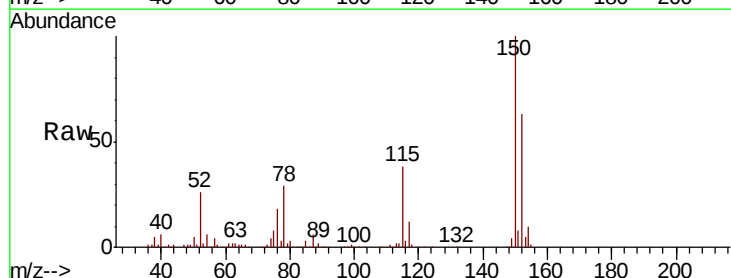


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

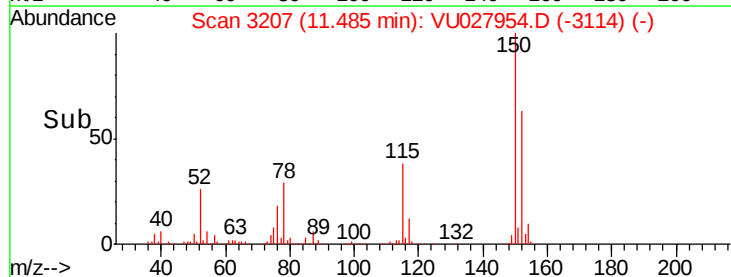
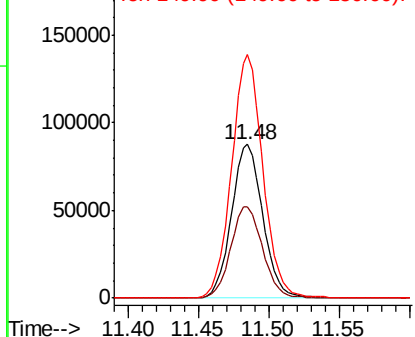


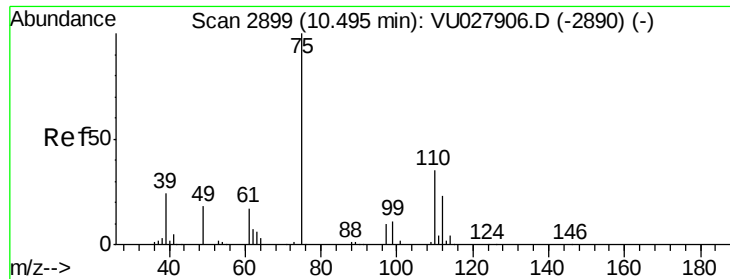
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027954.D
Acq: 05 Nov 2018 13:59

Tgt Ion:152 Resp: 136700
Ion Ratio Lower Upper
152 100
115 60.8 43.0 129.0
150 157.5 0.0 349.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

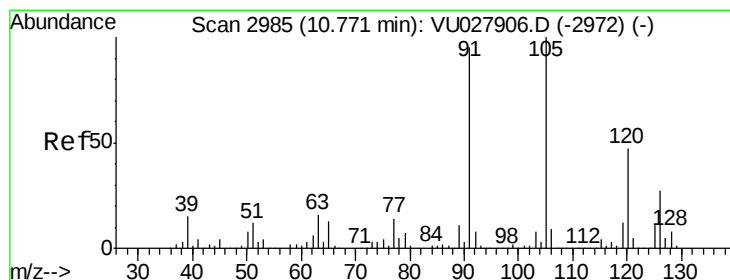
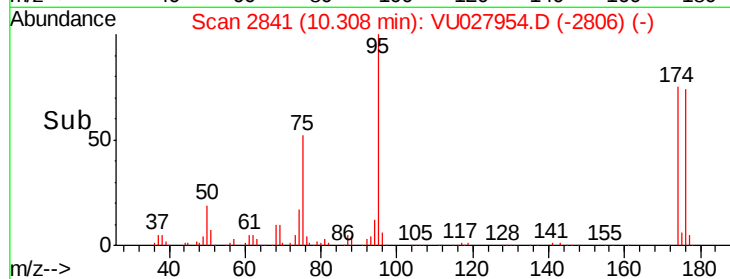
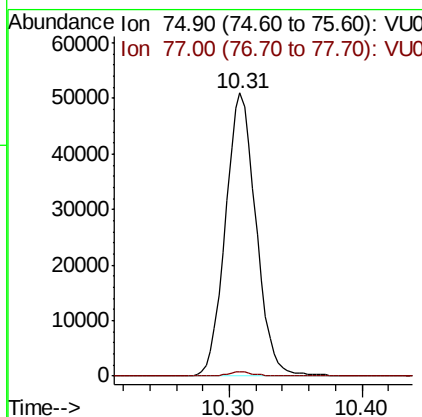
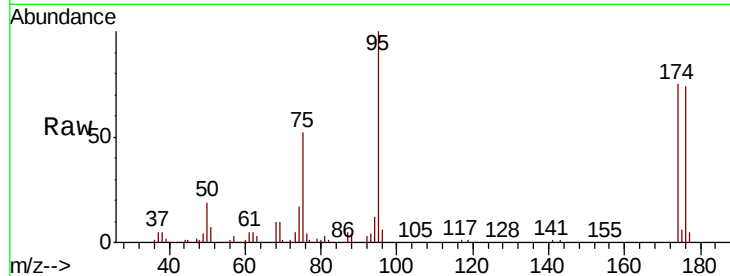




#76
 1,2,3-Trichloropropane
 Concen: 21.761 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027954.D
 Acq: 05 Nov 2018 13:59

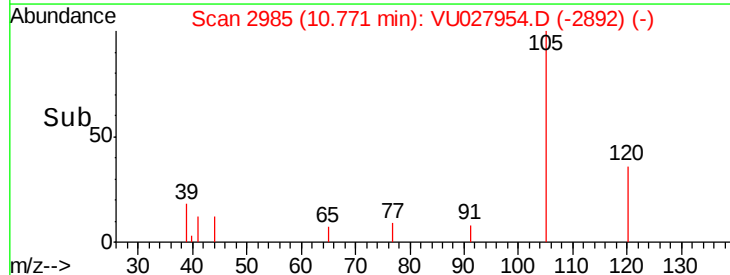
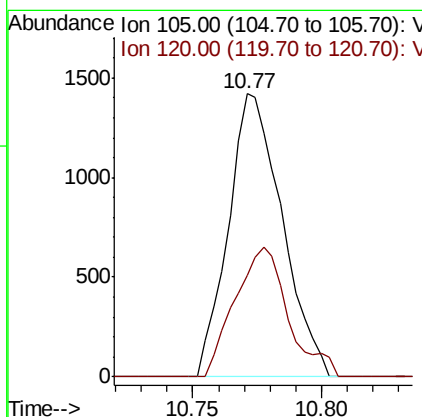
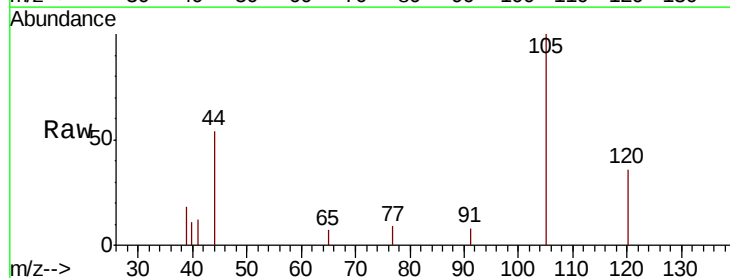
Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#09

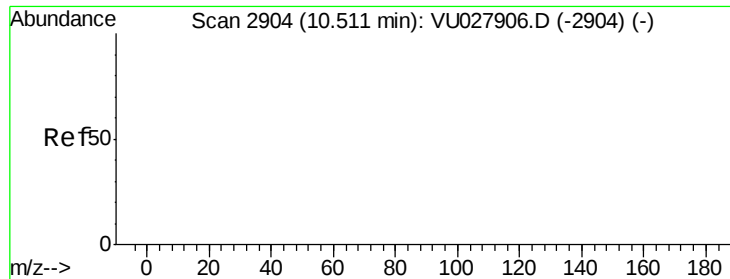
Tot Ion: 75 Resp: 81367
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.6 64.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.234 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU027954.D
 Acq: 05 Nov 2018 13:59

Tgt Ion:105 Resp: 2055
 Ion Ratio Lower Upper
 105 100
 120 45.5 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 54.310 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#09

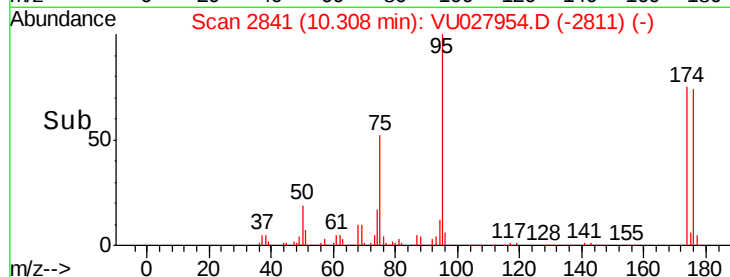
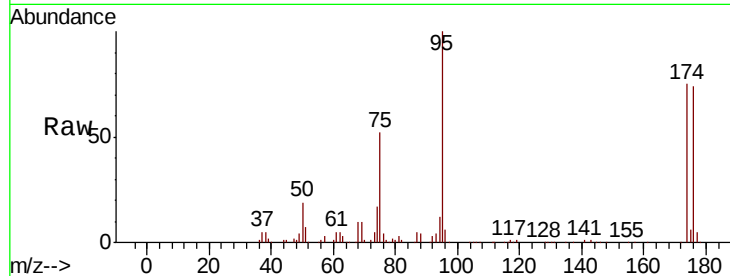
Tot Ion: 75 Resp: 81367

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

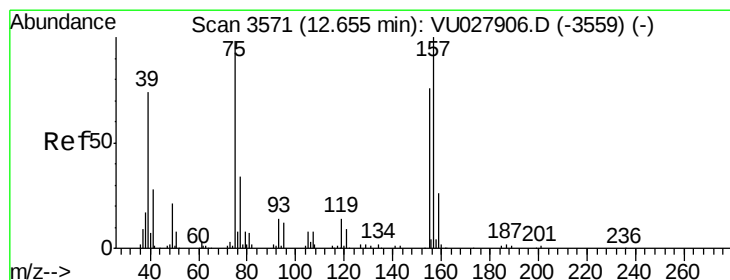
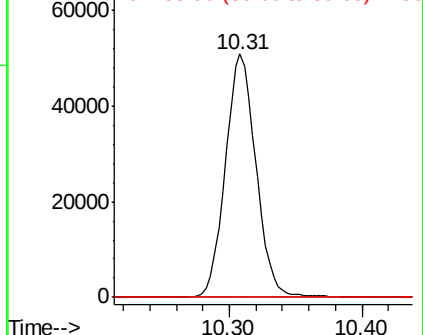
89 0.0 0.0 0.0



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.231 ug/l

RT: 12.48 min Scan# 3518

Delta R.T. -0.17 min

Lab File: VU027954.D

Acq: 05 Nov 2018 13:59

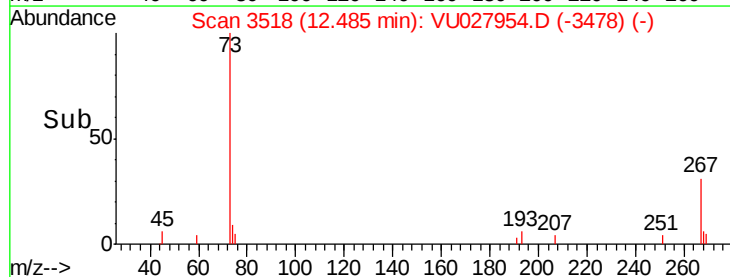
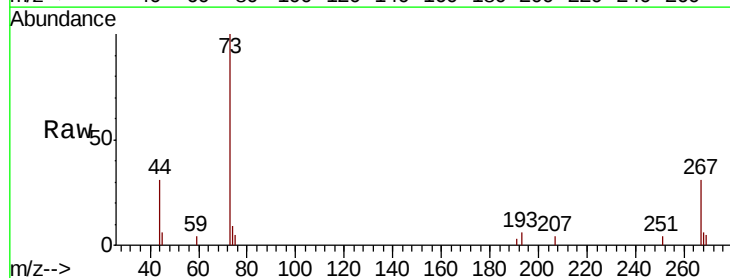
Tgt Ion: 75 Resp: 208

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

