

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\
 Data File : VU027931.D
 Acq On : 02 Nov 2018 17:12
 Operator : MD/SY
 Sample : J5759-16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

Quant Time: Nov 03 04:24:23 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

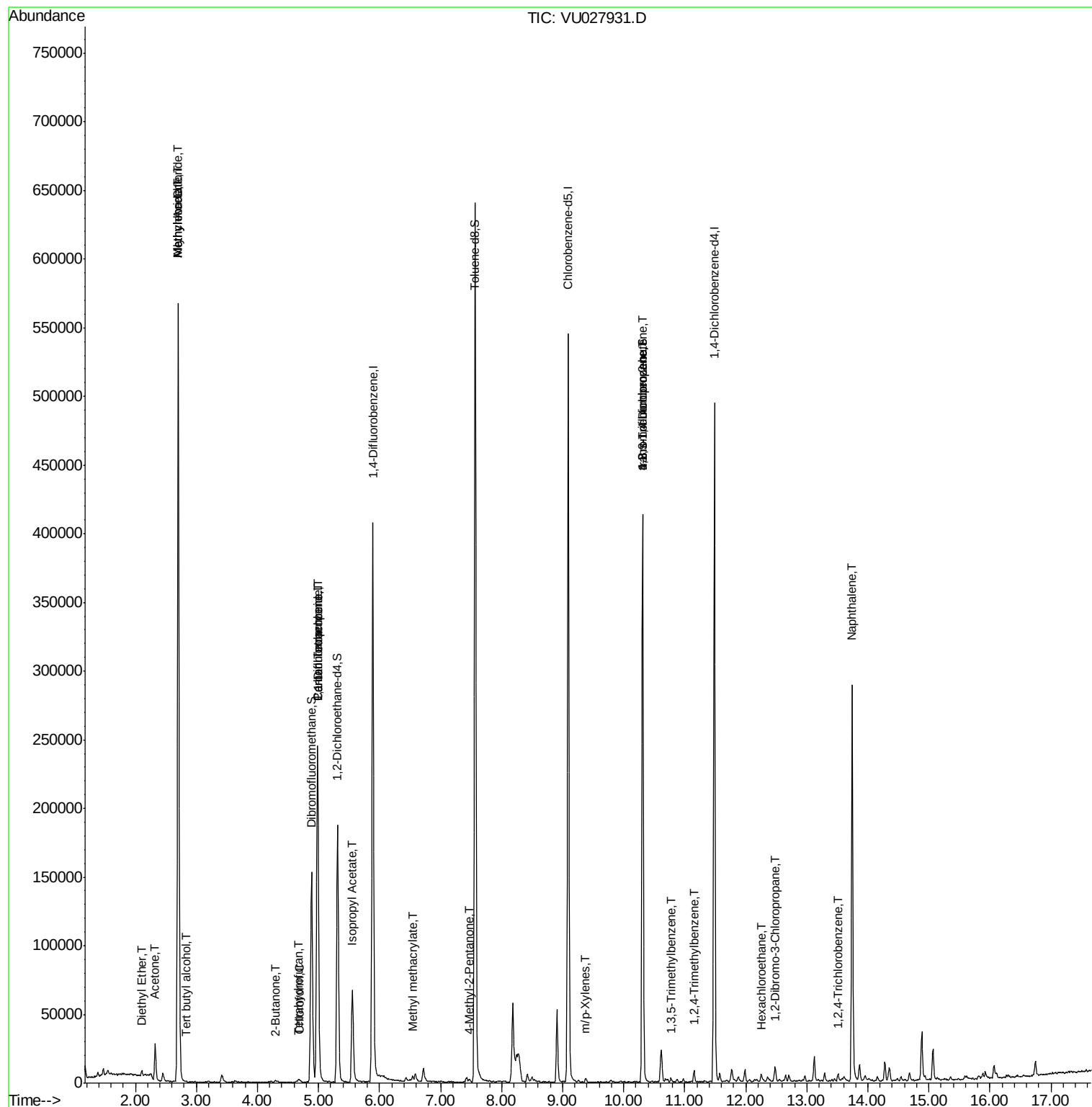
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	188050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	334326	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	118557	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	142331	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
35) Dibromofluoromethane	4.89	113	106149	50.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.72%	
50) Toluene-d8	7.57	98	419160	51.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	10.31	95	138734	46.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.38%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.10	74	1096	0.772	ug/l	91
11) Tert butyl alcohol	2.84	59	331	0.447	ug/l #	73
13) Acrolein	2.20	56	65	Below Cal	#	15
14) Allyl chloride	2.70	41	12285	2.550	ug/l #	27
16) Acetone	2.32	43	27423	15.809	ug/l	97
18) Methyl Acetate	2.70	43	1918	0.402	ug/l #	63
20) Methylene Chloride	2.70	84	236303	93.301	ug/l	99
25) 2-Butanone	4.29	43	2884	1.045	ug/l	94
29) Tetrahydrofuran	4.66	42	662	0.359	ug/l #	72
30) Chloroform	4.68	83	1559	0.343	ug/l	85
31) Cyclohexane	4.98	56	4501	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15727	4.491	ug/l #	50
38) Carbon Tetrachloride	4.99	117	17944	5.783	ug/l #	16
43) Isopropyl Acetate	5.56	43	85483	10.635	ug/l	100
48) Methyl methacrylate	6.54	41	6290	1.597	ug/l #	26
51) 4-Methyl-2-Pentanone	7.46	43	1577	0.294	ug/l	99
68) m/p-Xylenes	9.38	106	998	0.244	ug/l	96
76) 1,2,3-Trichloropropane	10.31	75	71180	21.950	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.78	105	1940	0.255	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.31	75	71180	54.778	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	4967	0.648	ug/l	97
90) Hexachloroethane	12.25	117	379	0.275	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.48	75	325	0.416	ug/l #	4
93) 1,2,4-Trichlorobenzene	13.51	180	395	0.826	ug/l #	54
95) Naphthalene	13.74	128	219536	22.475	ug/l	99

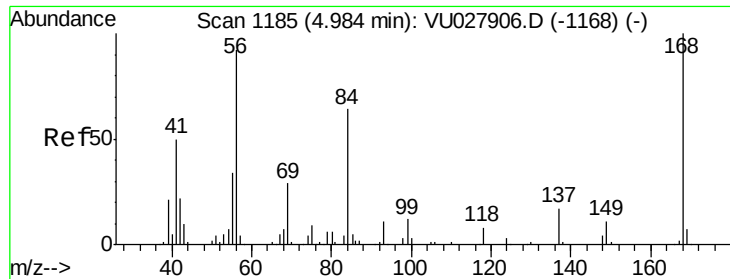
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

Instrument :

MSVOA_U

ClientSampleId :

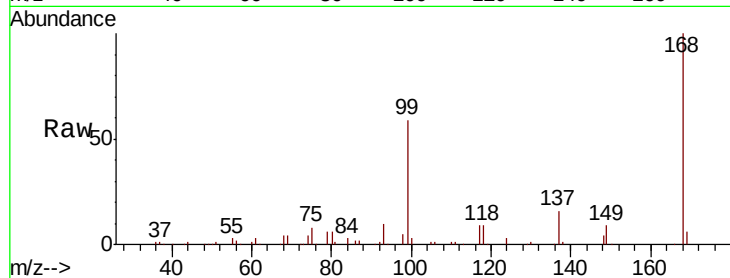
TP-4

Tot Ion:168 Resp: 188050

Ion Ratio Lower Upper

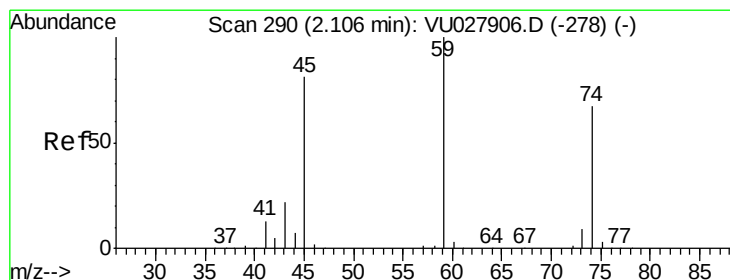
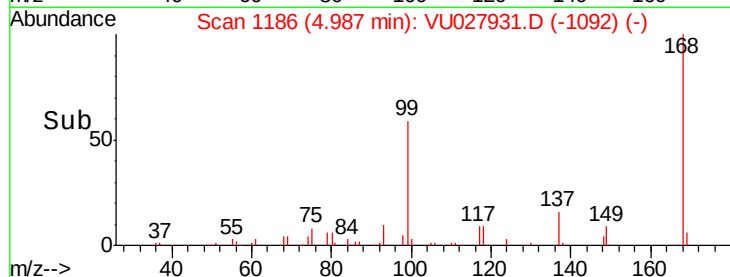
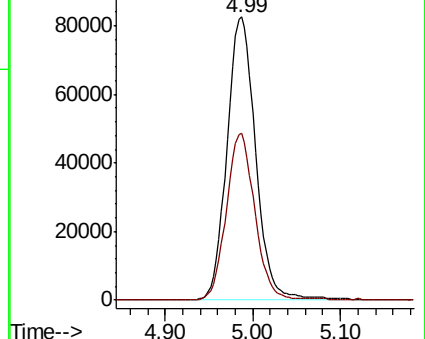
168 100

99 59.0 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027931.D (-1092) (-)



#8

Diethyl Ether

Concen: 0.772 ug/l

RT: 2.10 min Scan# 289

Delta R.T. -0.00 min

Lab File: VU027931.D

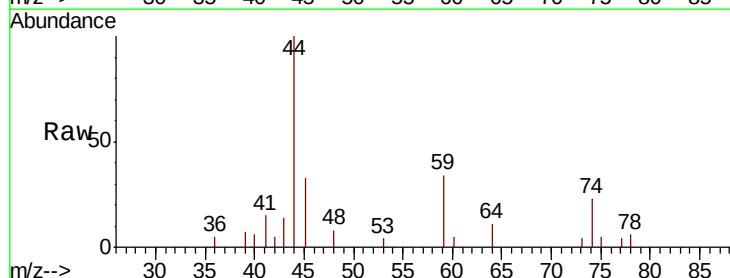
Acq: 02 Nov 2018 17:12

Tgt Ion: 74 Resp: 1096

Ion Ratio Lower Upper

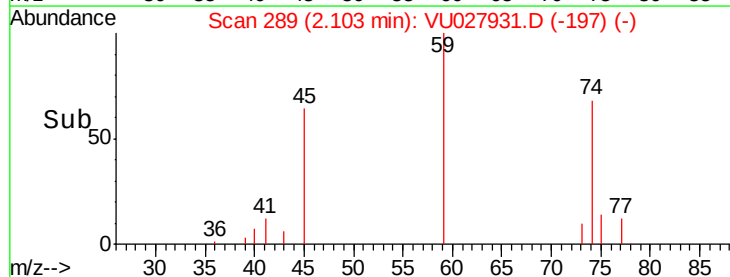
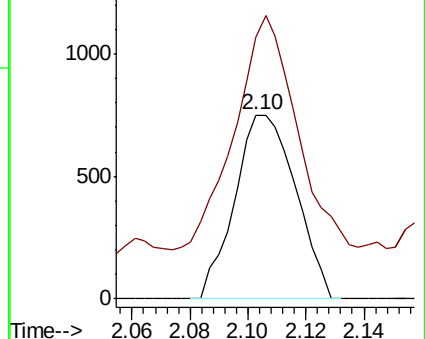
74 100

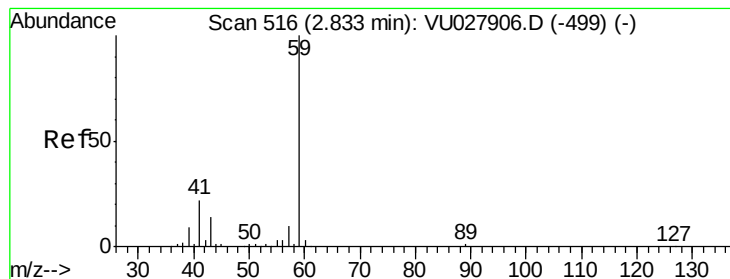
45 130.6 60.5 181.5



Abundance Ion 74.00 (73.70 to 74.70): VU027906.D (-278) (-)

Ion 45.00 (44.70 to 45.70): VU027931.D (-197) (-)



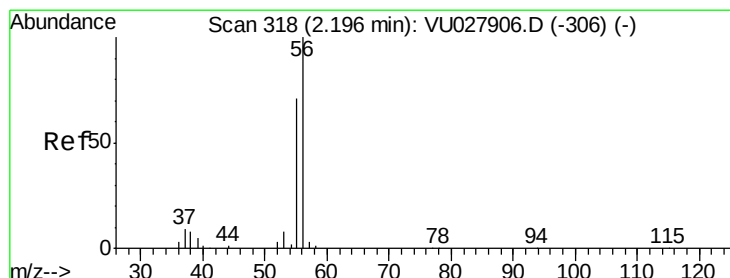
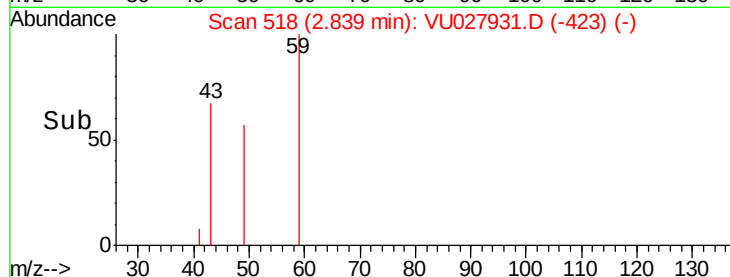
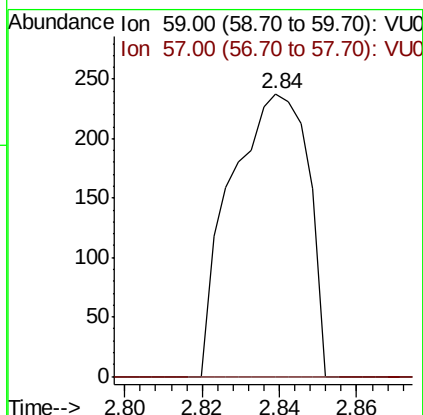
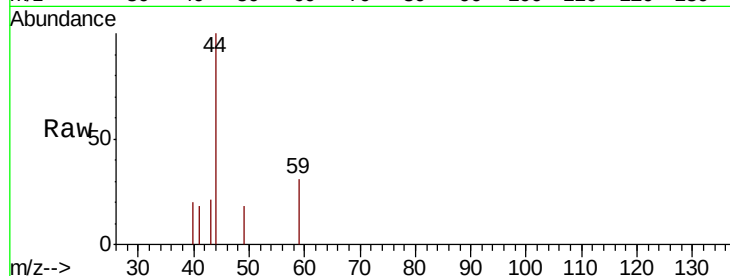


#11

Tert butyl alcohol
 Concen: 0.447 ug/l
 RT: 2.84 min Scan# 518
 Delta R.T. 0.01 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Instrument :
 MSVOA_U
 ClientSampled :
 TP-4

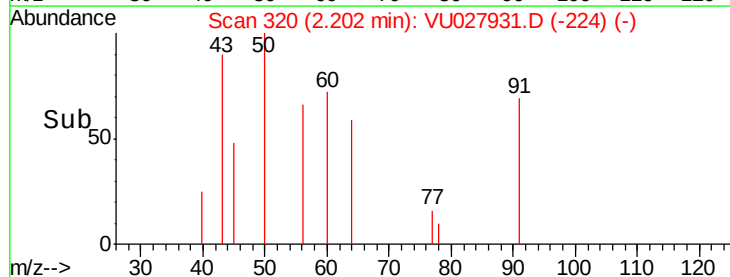
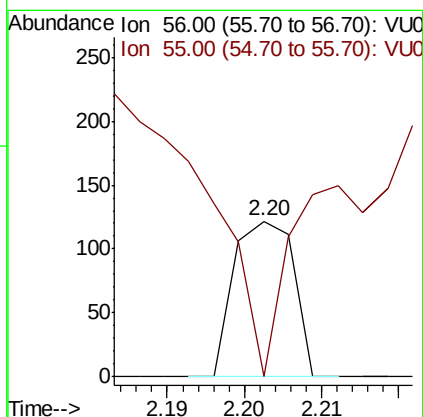
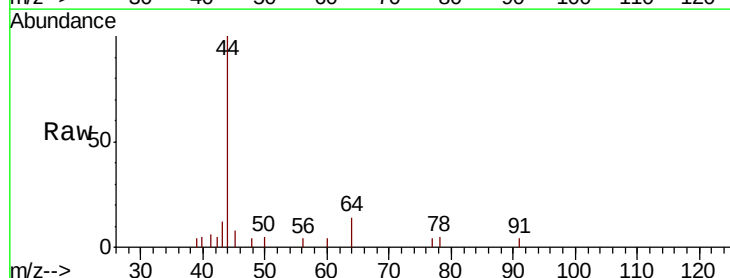
Tot Ion: 59 Resp: 331
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

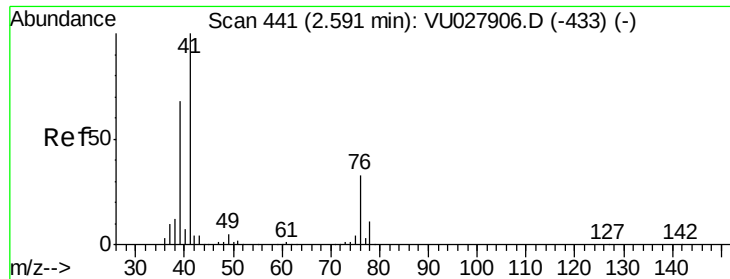


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 320
 Delta R.T. 0.01 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Tgt Ion: 56 Resp: 65
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.2 84.4#

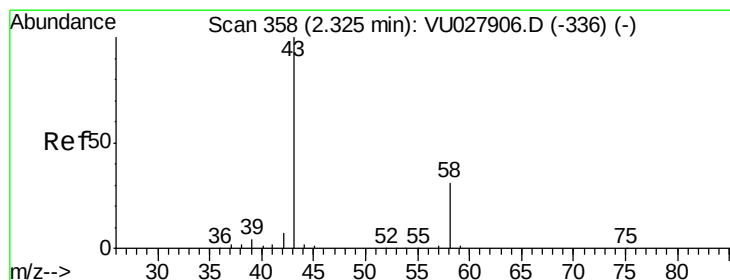
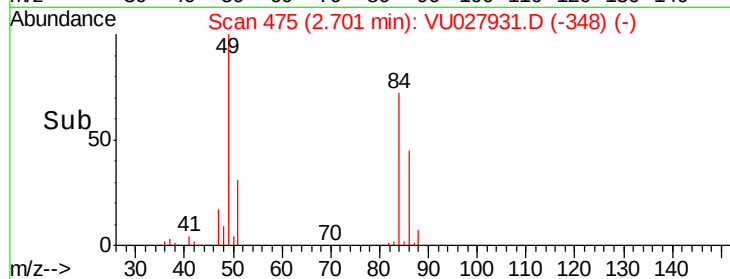
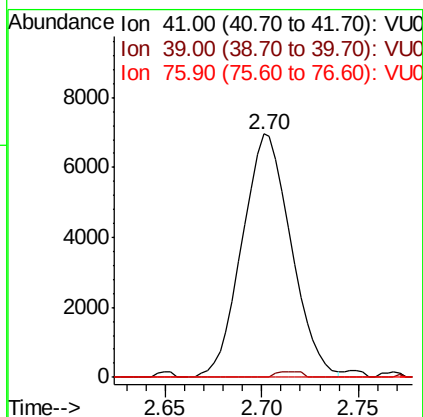
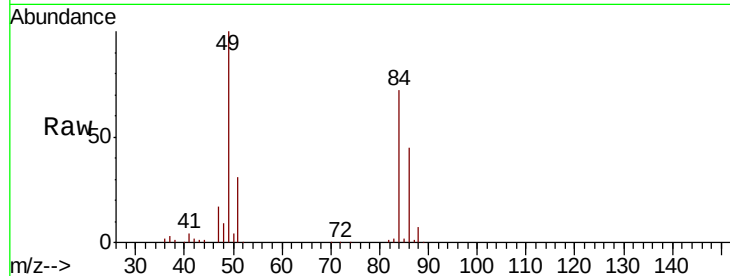




#14
Allvl chloride
Concen: 2.550 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.11 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

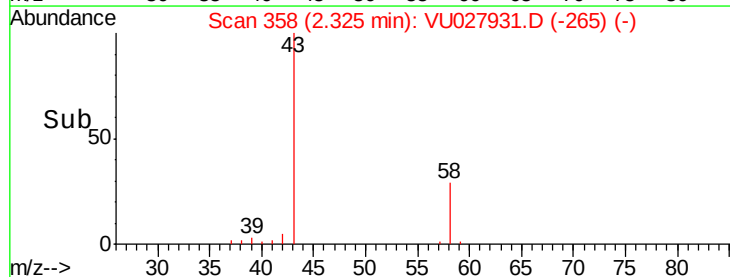
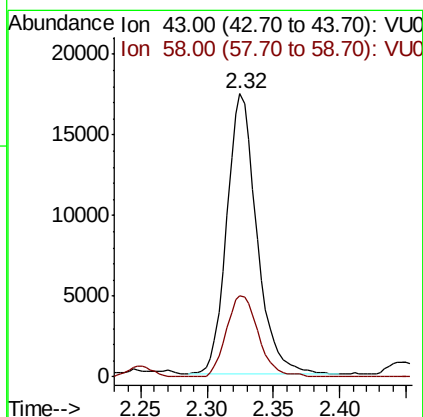
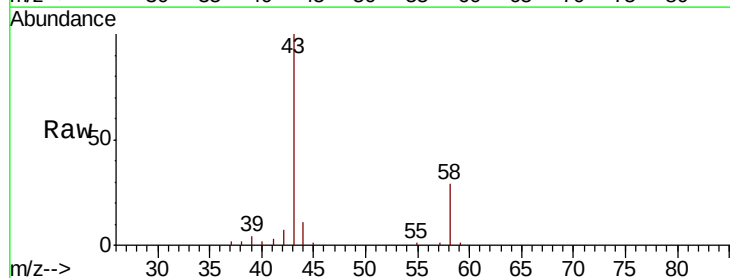
Instrument :
MSVOA_U
ClientSampleId :
TP-4

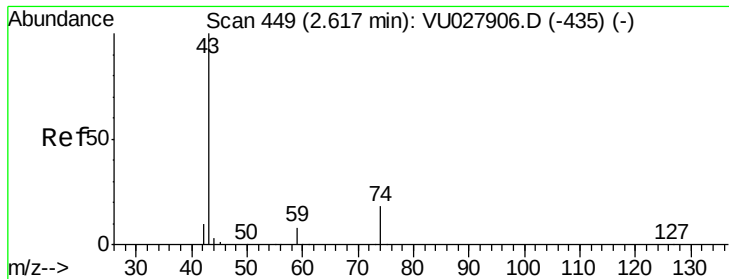
Tot Ion: 41 Resp: 12285
Ion Ratio Lower Upper
41 100
39 1.2 51.9 77.9#
76 0.0 23.8 35.6#



#16
Acetone
Concen: 15.809 ug/l
RT: 2.32 min Scan# 358
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion: 43 Resp: 27423
Ion Ratio Lower Upper
43 100
58 29.1 24.6 37.0

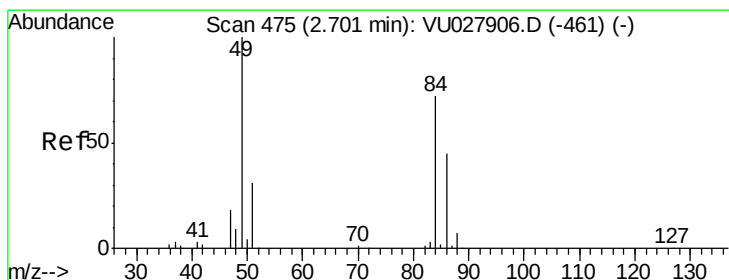
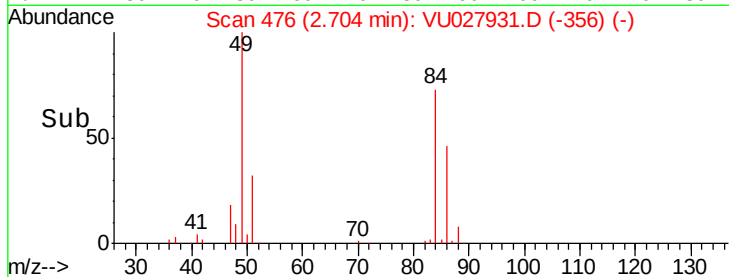
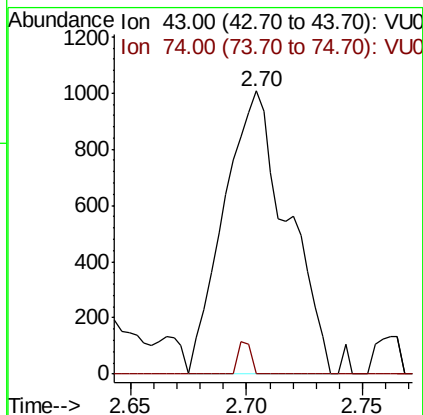
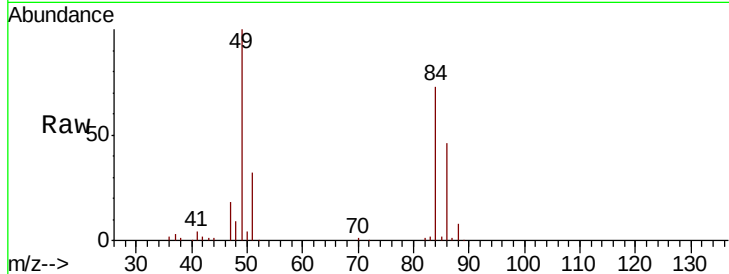




#18
Methyl Acetate
Concen: 0.402 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.09 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

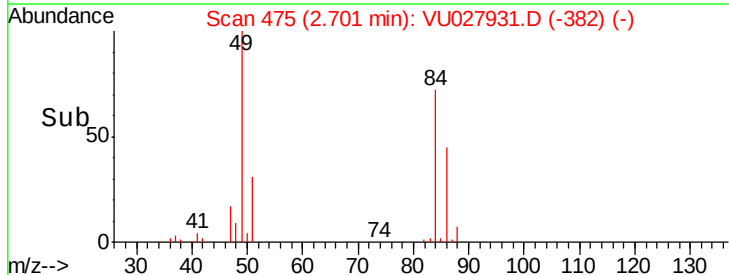
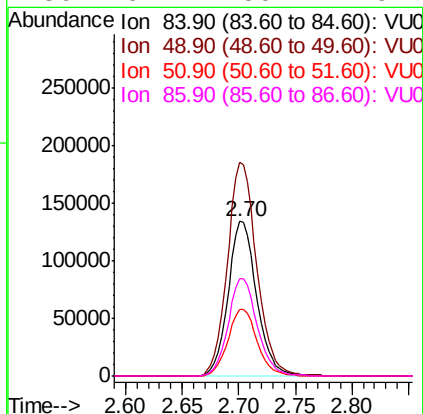
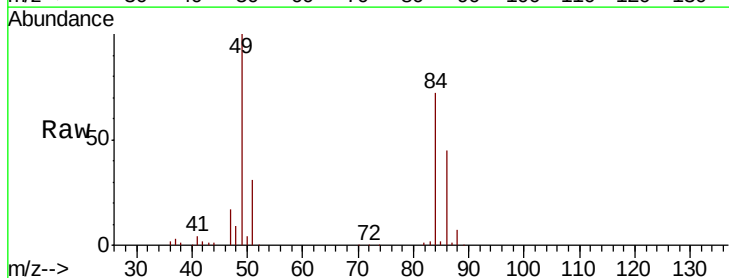
Instrument :
MSVOA_U
ClientSampled :
TP-4

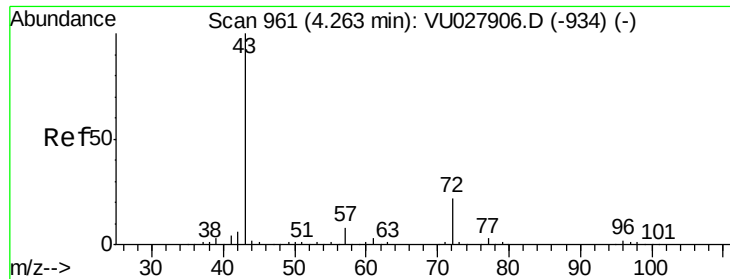
Tot Ion: 43 Resp: 1918
Ion Ratio Lower Upper
43 100
74 2.2 14.9 22.3#



#20
Methylene Chloride
Concen: 93.301 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion: 84 Resp: 236303
Ion Ratio Lower Upper
84 100
49 138.2 111.6 167.4
51 42.8 34.8 52.2
86 62.7 50.1 75.1





#25

2-Butanone

Concen: 1.045 ug/l

RT: 4.29 min Scan# 970

Delta R.T. 0.03 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

Instrument :

MSVOA_U

ClientSampled :

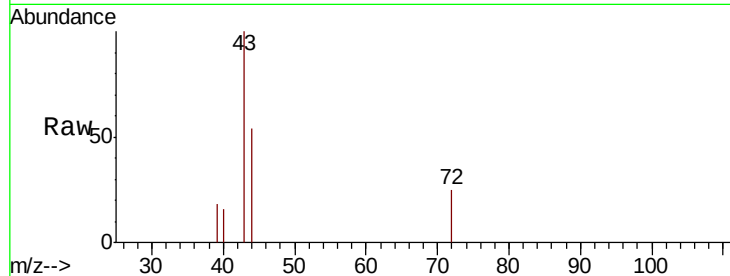
TP-4

Tot Ion: 43 Resp: 2884

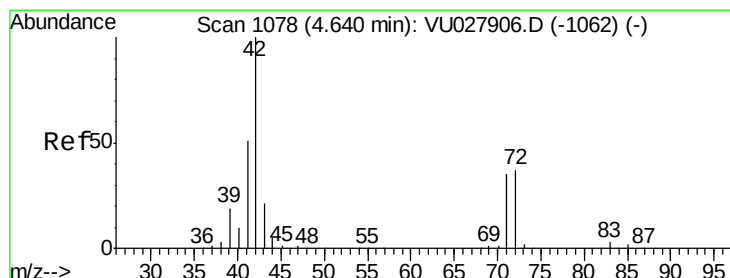
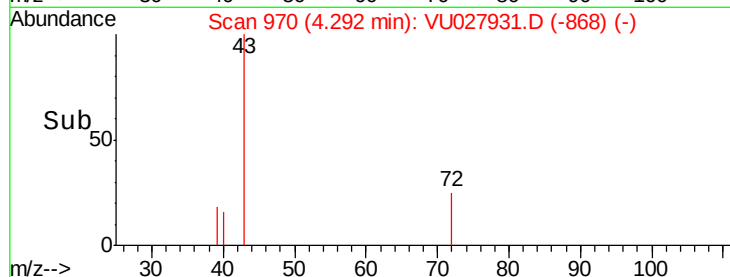
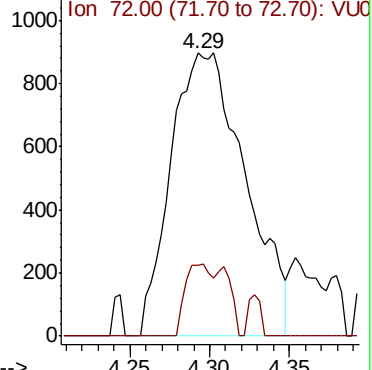
Ion Ratio Lower Upper

43 100

72 25.0 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU027931.D (-968) (-)



#29

Tetrahydrofuran

Concen: 0.359 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

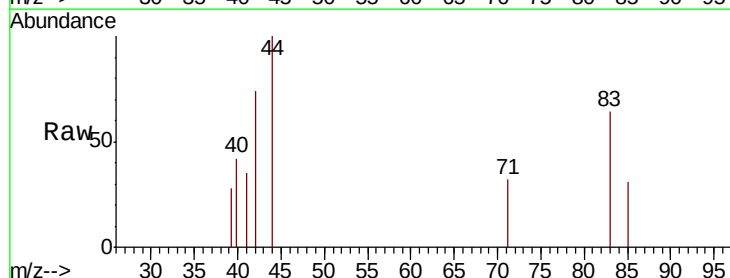
Tgt Ion: 42 Resp: 662

Ion Ratio Lower Upper

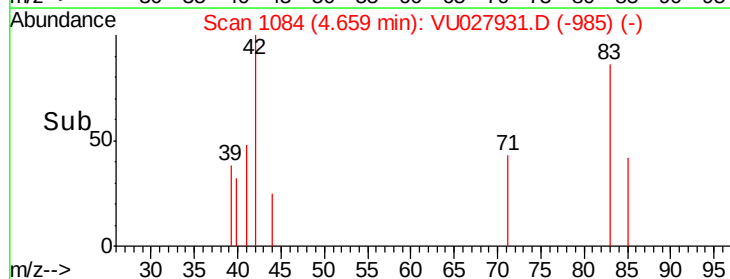
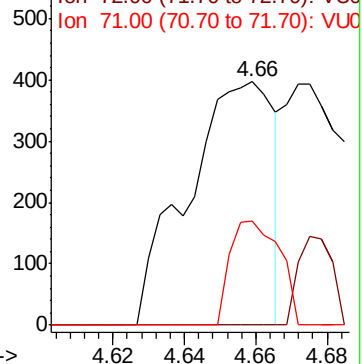
42 100

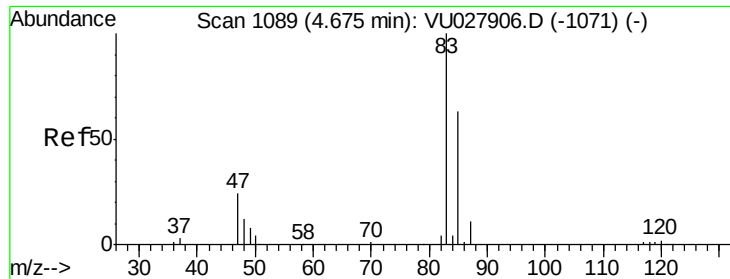
72 14.2 29.4 44.0#

71 24.5 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU027931.D (-985) (-)

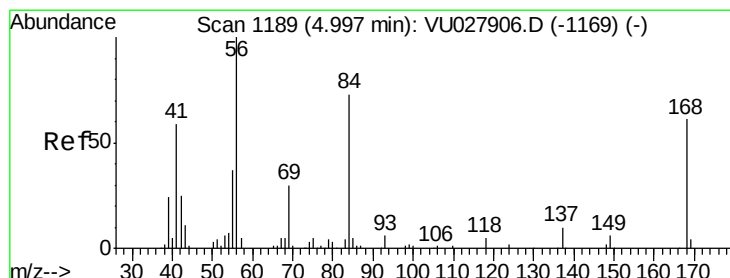
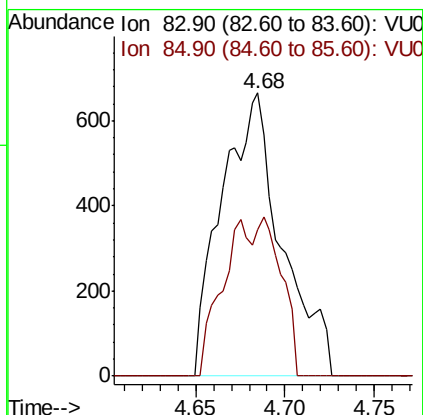
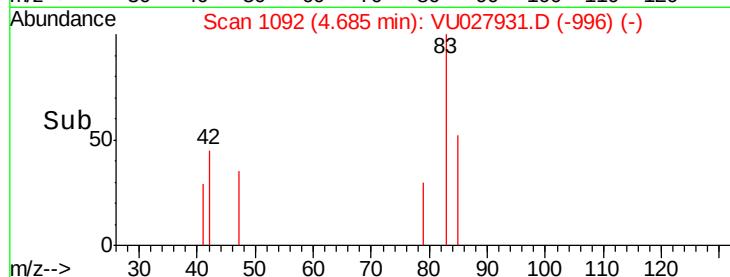
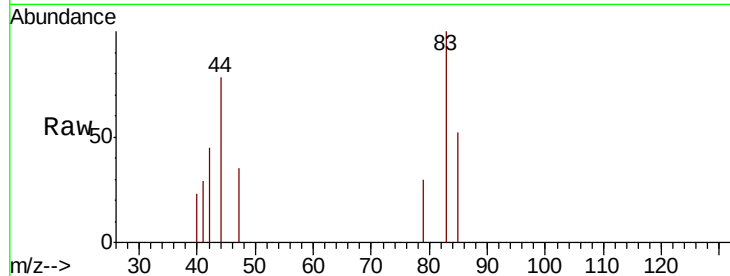




#30
Chloroform
Concen: 0.343 ug/l
RT: 4.68 min Scan# 1092
Delta R.T. 0.01 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

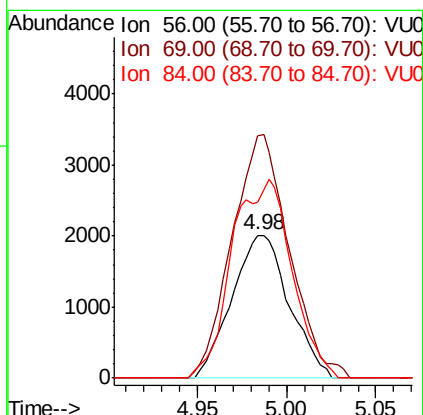
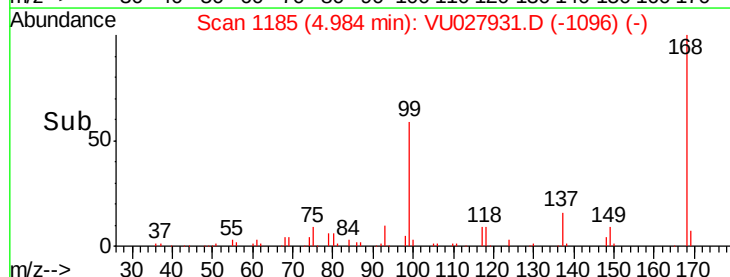
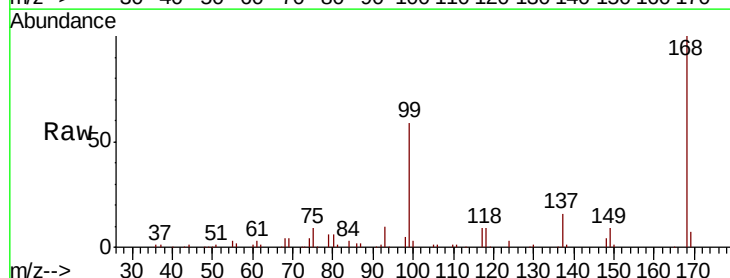
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TP-4

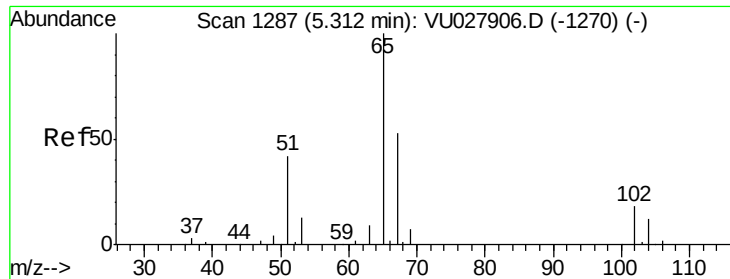
Tot Ion: 83 Resp: 1559
Ion Ratio Lower Upper
83 100
85 51.9 50.6 76.0



#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion: 56 Resp: 4501
Ion Ratio Lower Upper
56 100
69 170.1 23.7 35.5#
84 123.3 58.2 87.4#

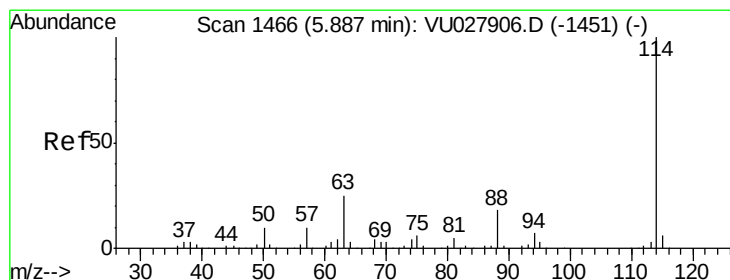
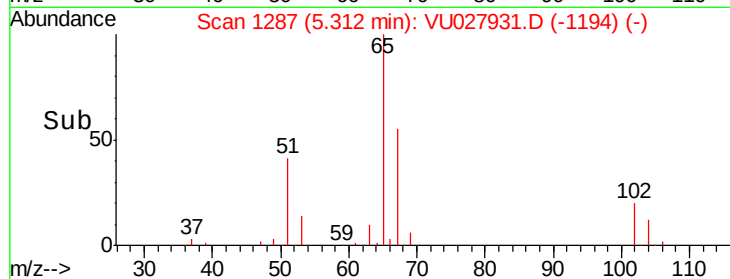
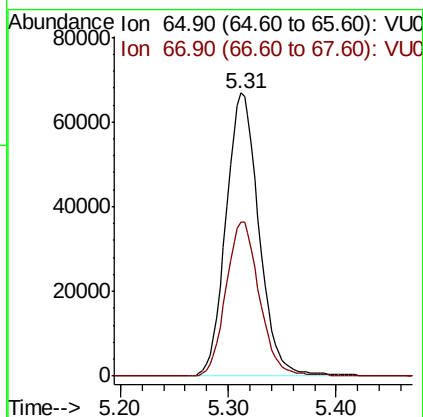
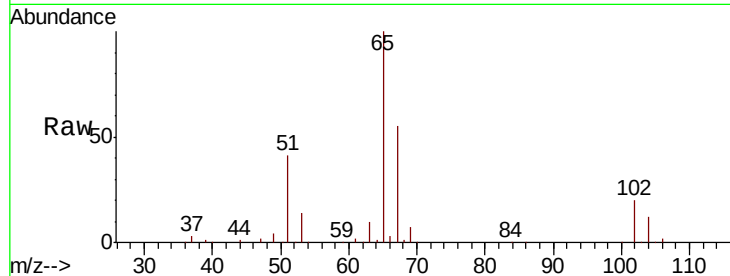




#33
 1,2-Dichloroethane-d4
 Concen: 50.908 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

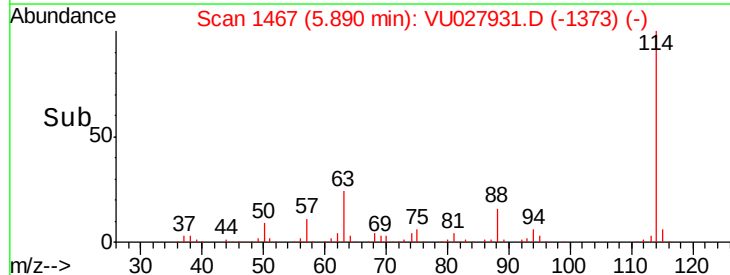
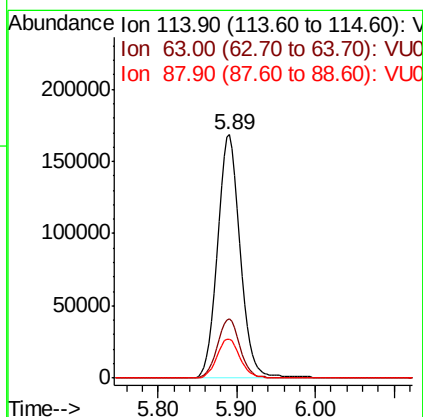
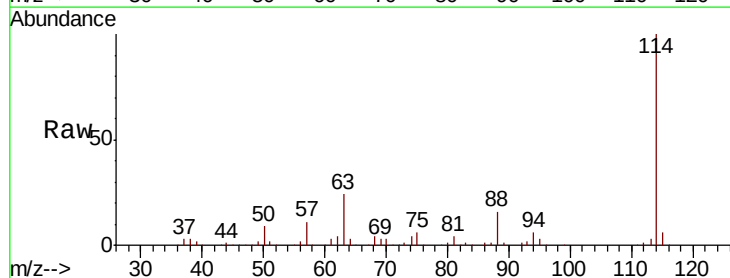
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 TP-4

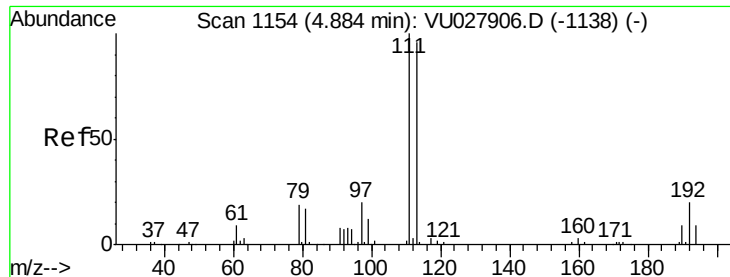
Tot Ion: 65 Resp: 142331
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Tgt Ion: 114 Resp: 334326
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 50.8
 88 15.9 0.0 35.8

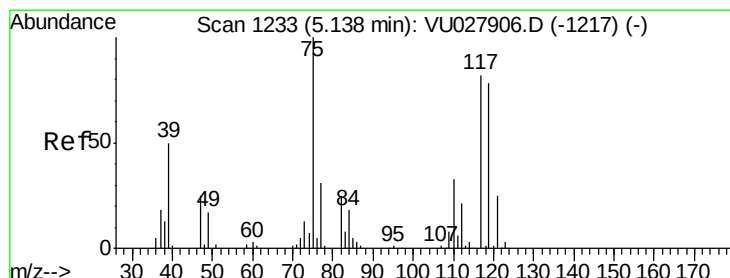
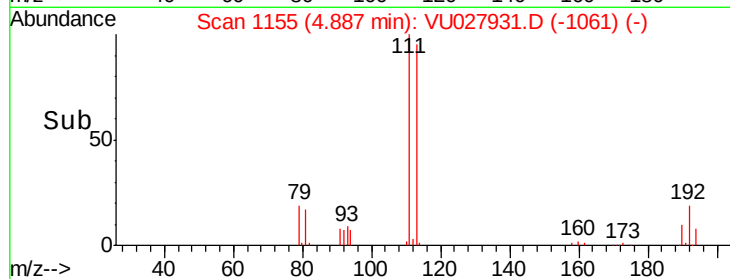
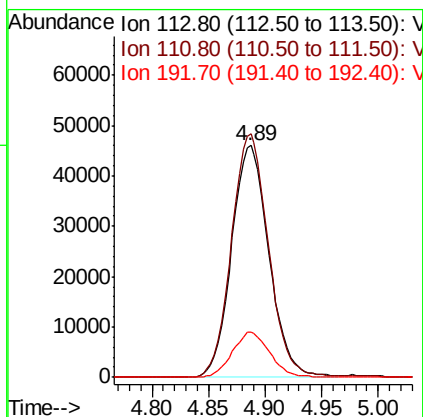
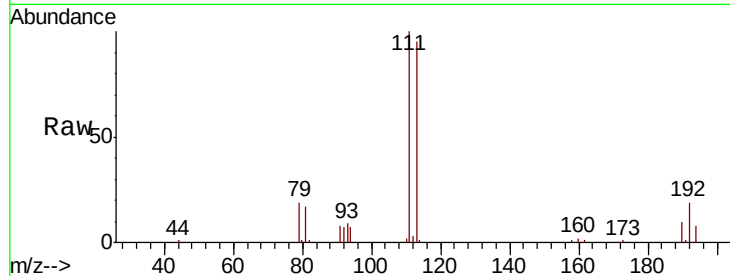




#35
 Dibromofluoromethane
 Concen: 50.356 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

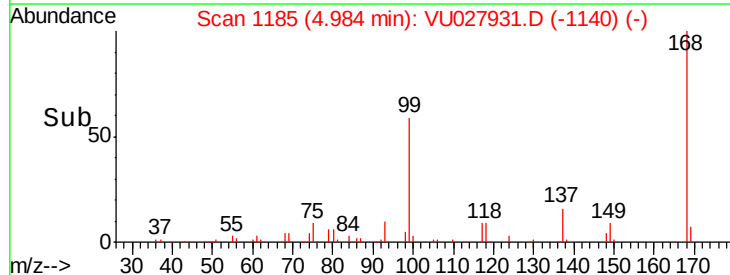
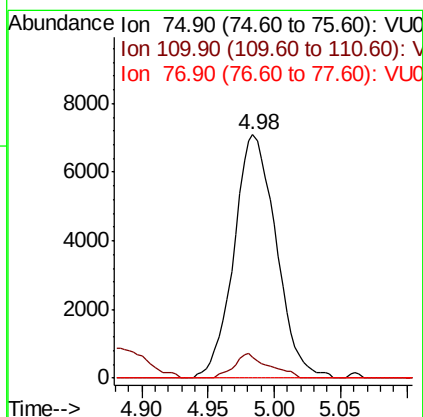
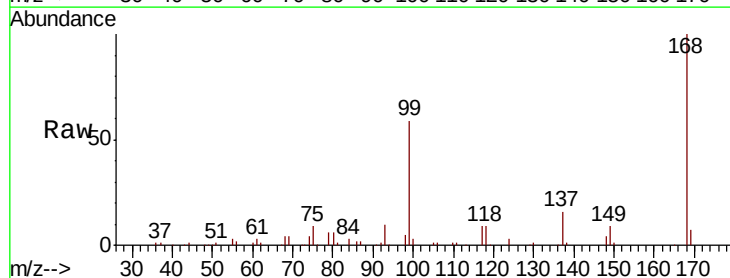
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

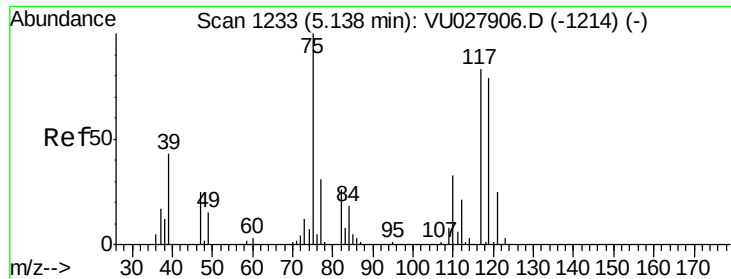
Tot Ion:113 Resp: 106149
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.0 124.6
 192 19.4 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.491 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Tgt Ion: 75 Resp: 15727
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.5 49.5#
 77 0.0 24.9 37.3#

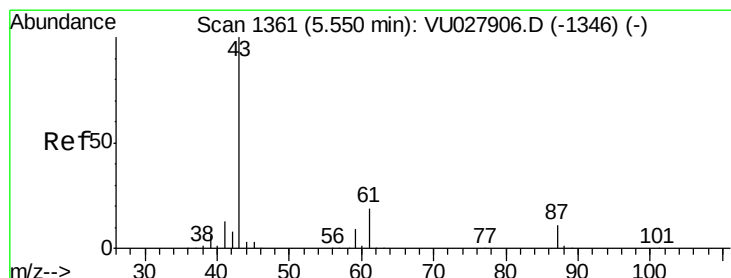
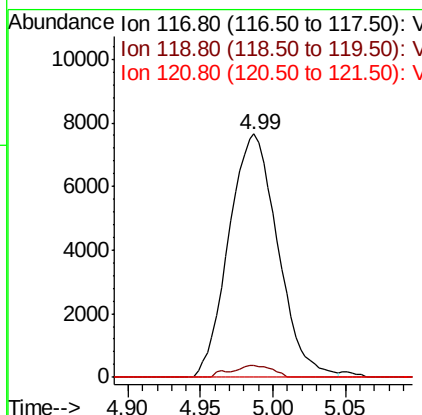
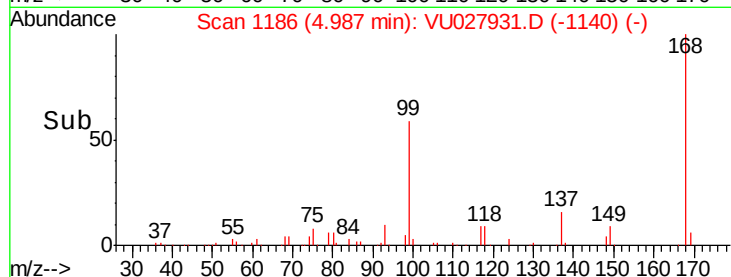
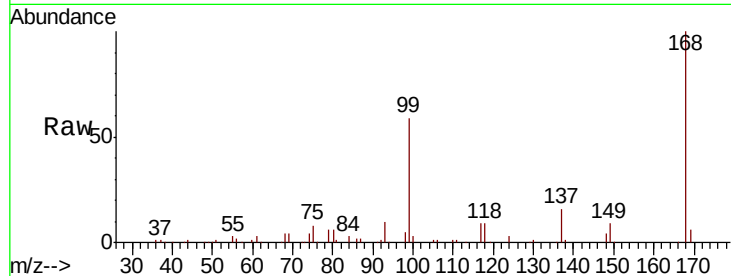




#38
 Carbon Tetrachloride
 Concen: 5.783 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

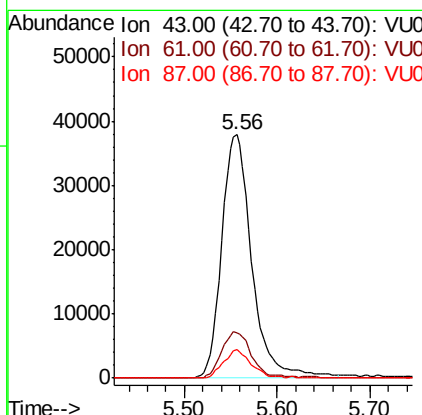
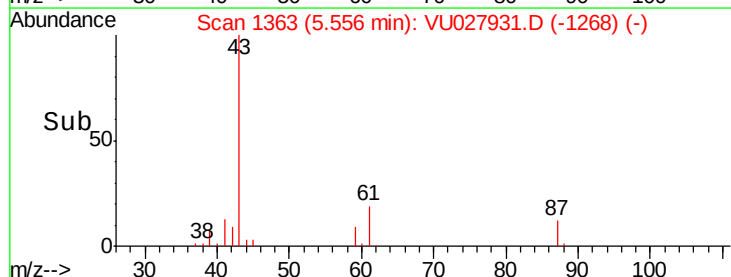
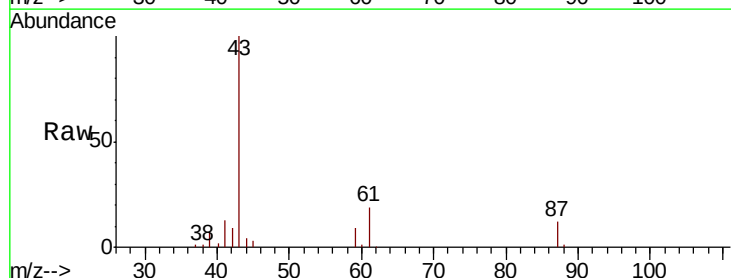
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

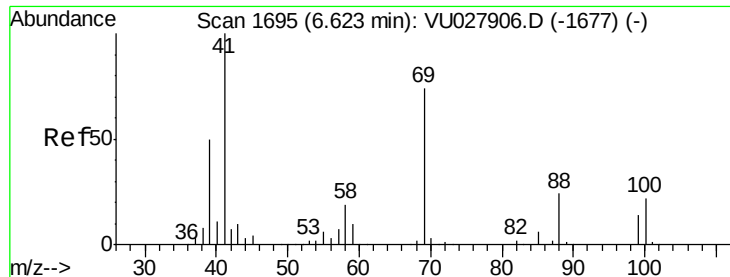
Tot Ion:117 Resp: 17944
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.0 114.0#
 121 0.0 24.5 36.7#



#43
 Isopropyl Acetate
 Concen: 10.635 ug/l
 RT: 5.56 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Tgt Ion: 43 Resp: 85483
 Ion Ratio Lower Upper
 43 100
 61 18.8 15.0 22.4
 87 10.7 8.6 12.8

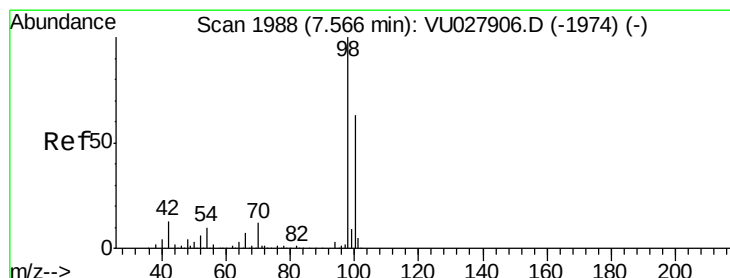
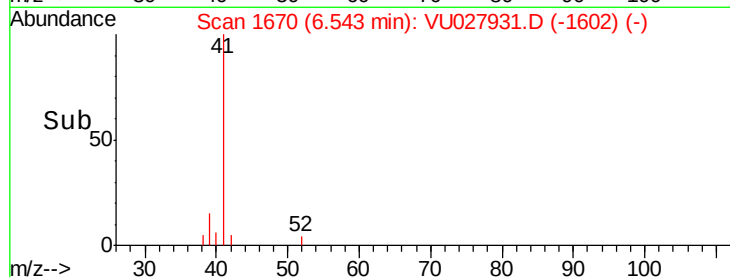
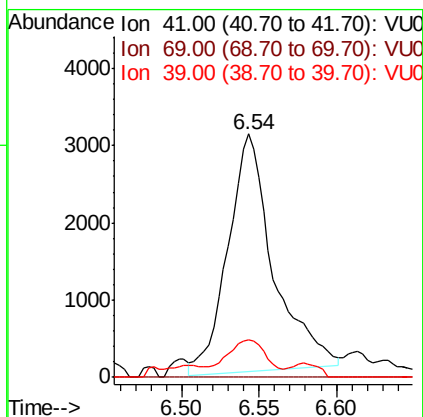
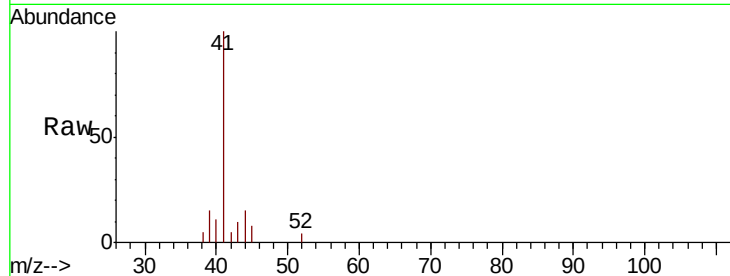




#48
Methvl methacrylate
Concen: 1.597 ug/l
RT: 6.54 min Scan# 1670
Delta R.T. -0.08 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

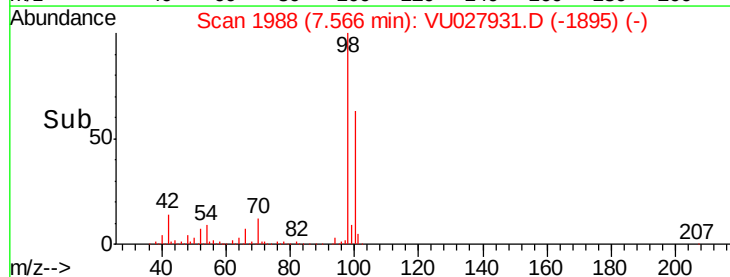
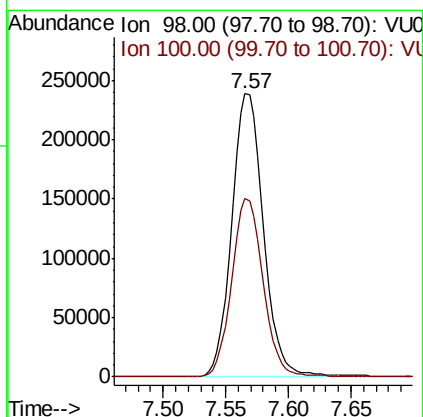
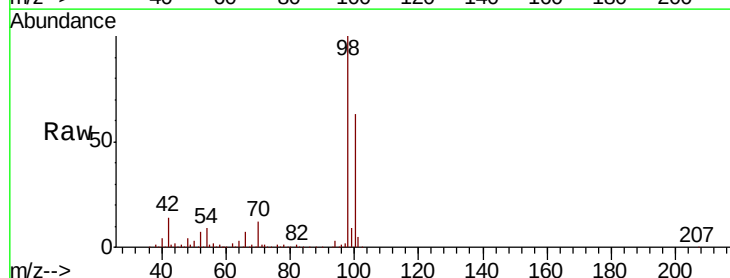
Instrument :
MSVOA_U
ClientSampleId :
TP-4

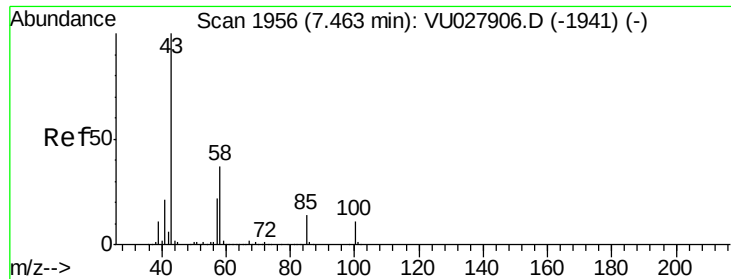
Tot Ion: 41 Resp: 6290
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 13.8 40.0 60.0#



#50
Toluene-d8
Concen: 51.475 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion: 98 Resp: 419160
Ion Ratio Lower Upper
98 100
100 62.8 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 0.294 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

Instrument :

MSVOA_U

ClientSampleId :

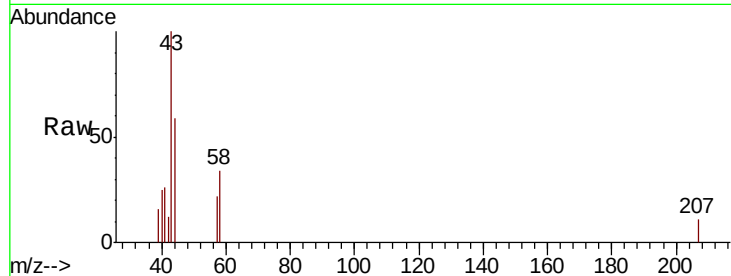
TP-4

Tot Ion: 43 Resp: 1577

Ion Ratio Lower Upper

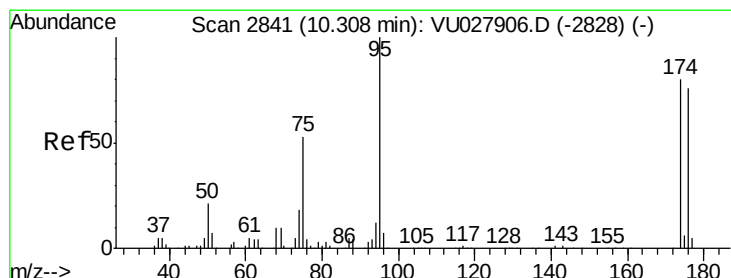
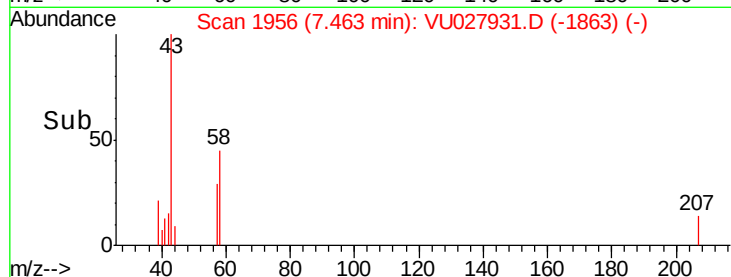
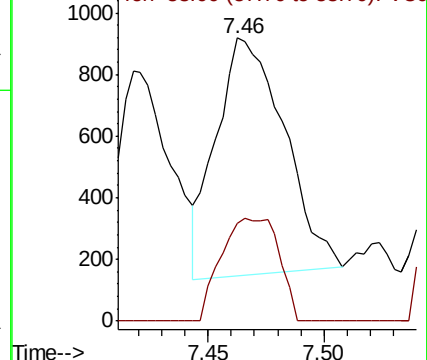
43 100

58 36.5 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 46.191 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

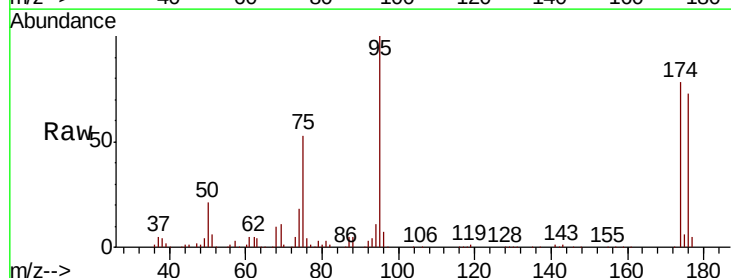
Tgt Ion: 95 Resp: 138734

Ion Ratio Lower Upper

95 100

174 77.0 0.0 156.4

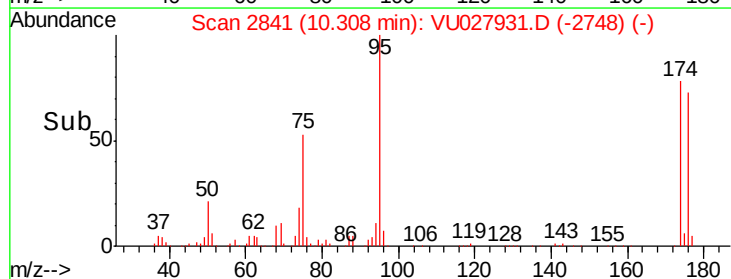
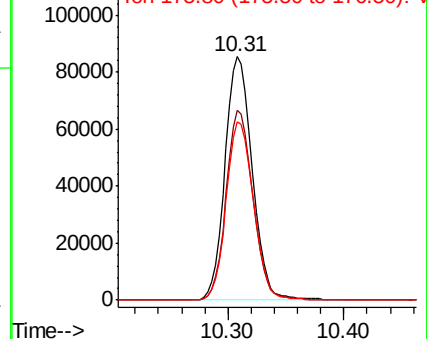
176 73.6 0.0 150.8

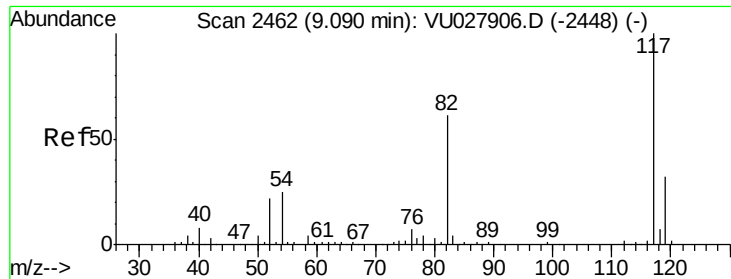


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

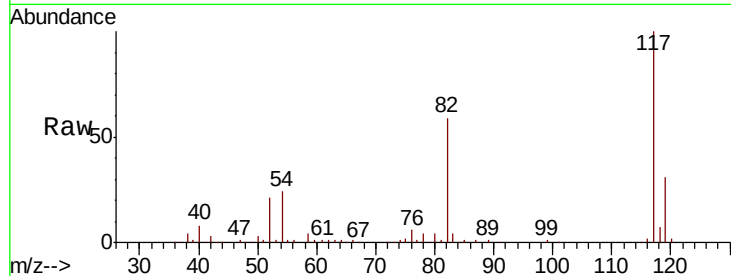




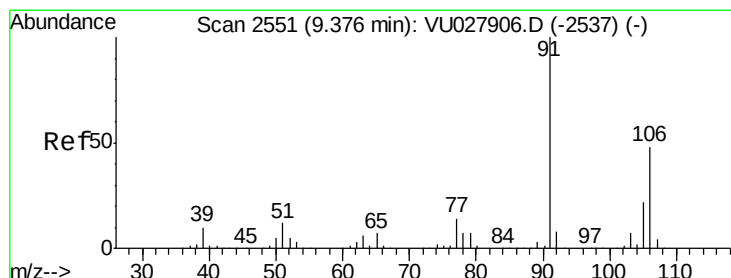
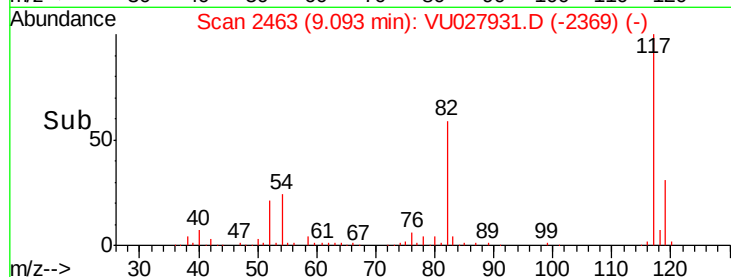
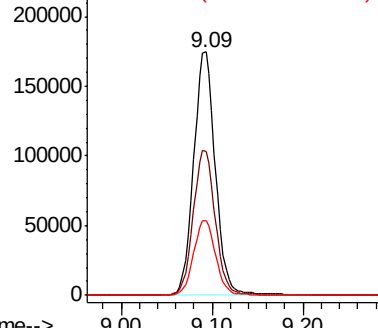
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Instrument :
MSVOA_U
ClientSampleId :
TP-4

Tot Ion:117 Resp: 289835
Ion Ratio Lower Upper
117 100
82 59.2 48.6 73.0
119 30.9 25.8 38.8

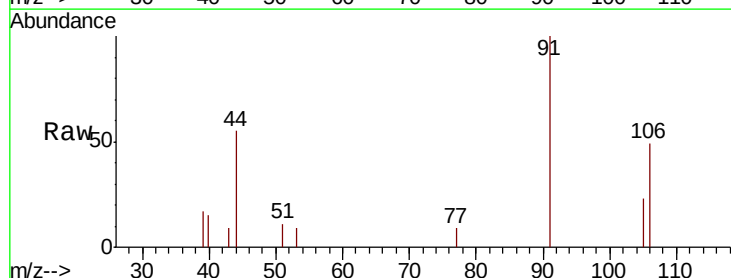


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

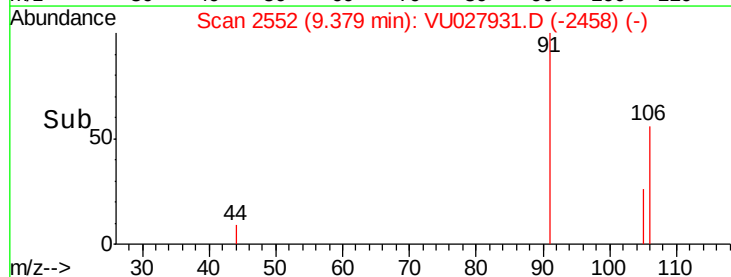
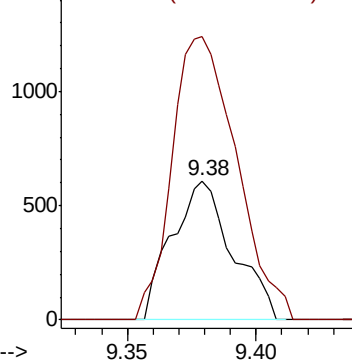


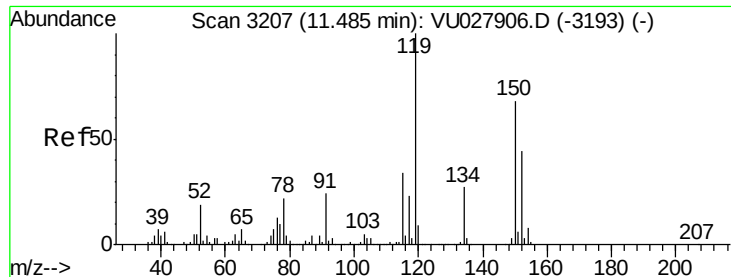
#68
m/p-Xylenes
Concen: 0.244 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion:106 Resp: 998
Ion Ratio Lower Upper
106 100
91 216.7 168.2 252.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



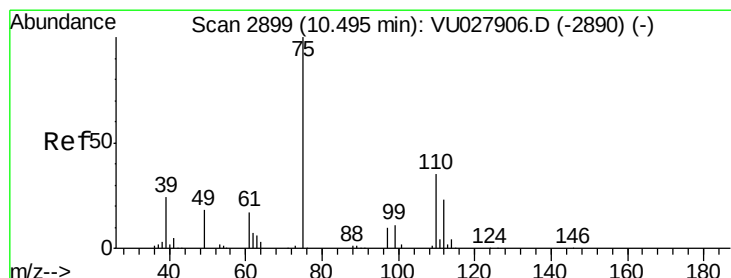
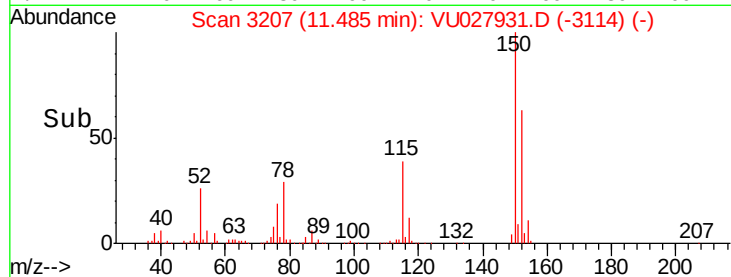
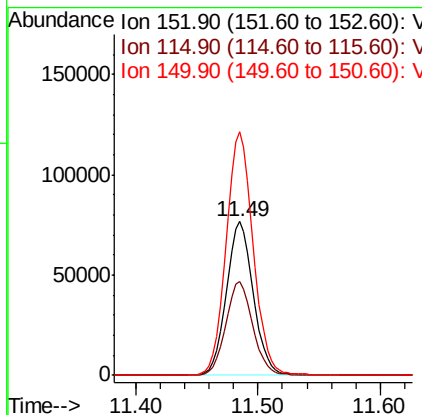
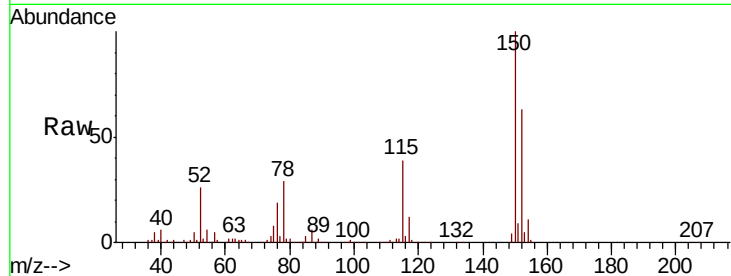


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Instrument :
MSVOA_U
ClientSampleId :
TP-4

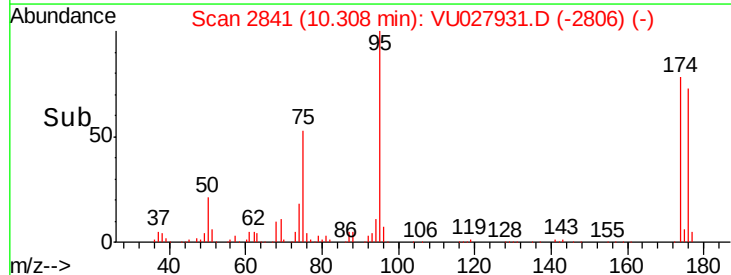
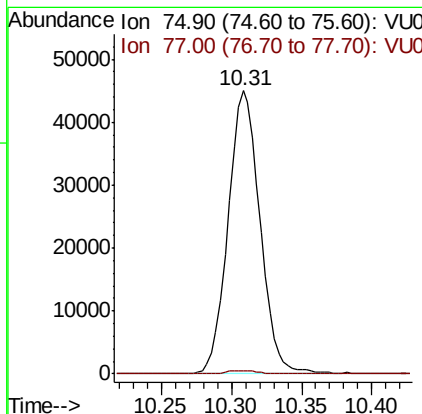
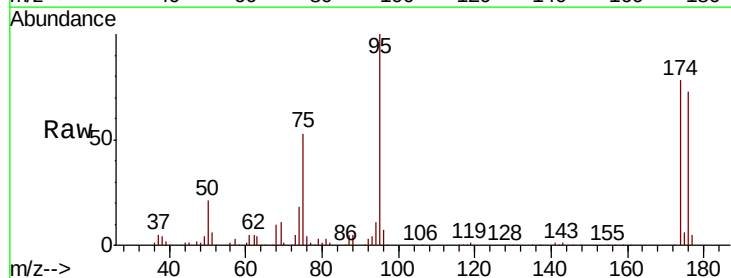
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.2	43.0	129.0
150	159.1	0.0	349.4

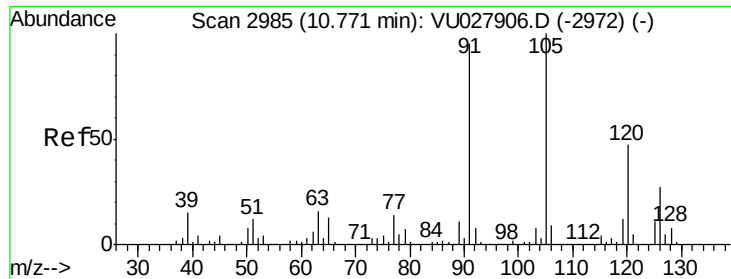


#76

1,2,3-Trichloropropane
Concen: 21.950 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	21.6	64.6#





#80

1,3,5-Trimethylbenzene

Concen: 0.255 ug/l

RT: 10.78 min Scan# 2987

Delta R.T. 0.01 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

Instrument :

MSVOA_U

ClientSampled :

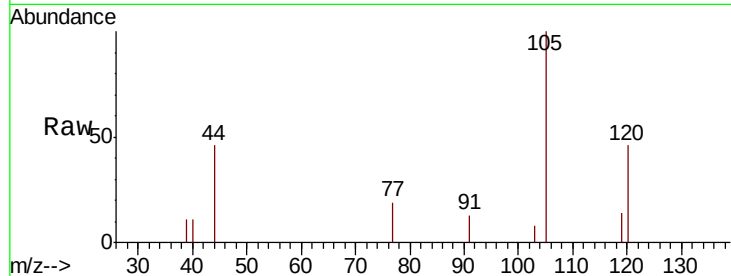
TP-4

Tot Ion:105 Resp: 1940

Ion Ratio Lower Upper

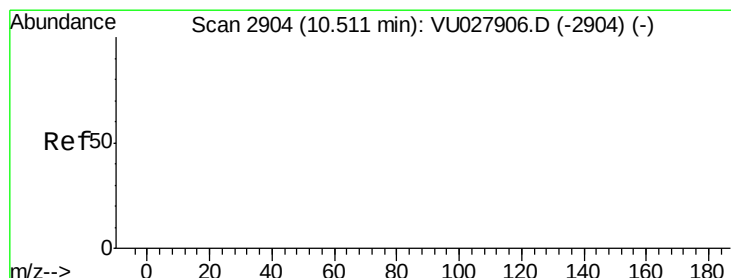
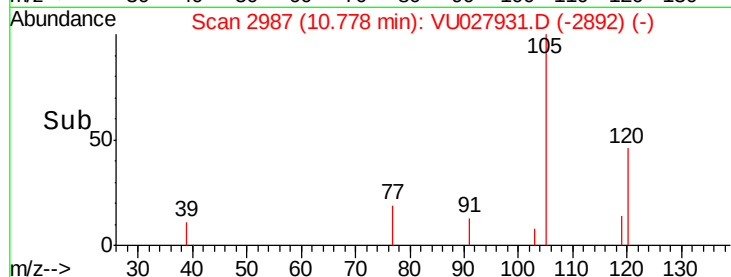
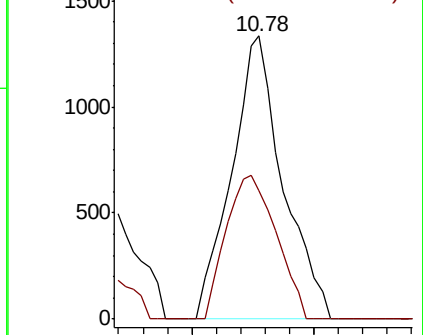
105 100

120 50.0 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 54.778 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

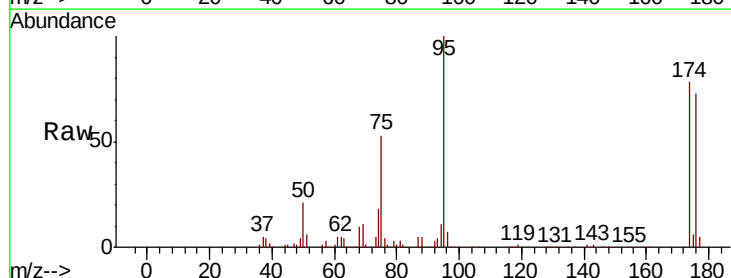
Tgt Ion: 75 Resp: 71180

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

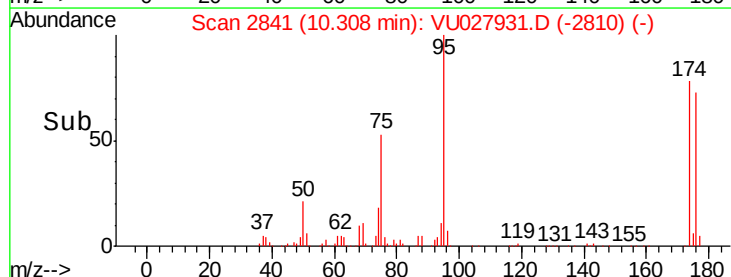
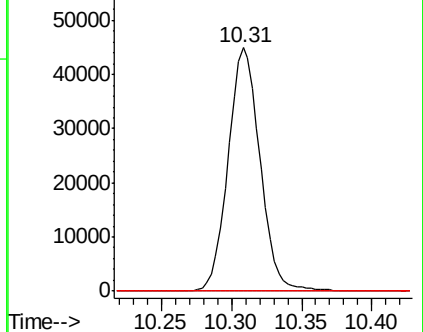
89 0.0 0.0 0.0

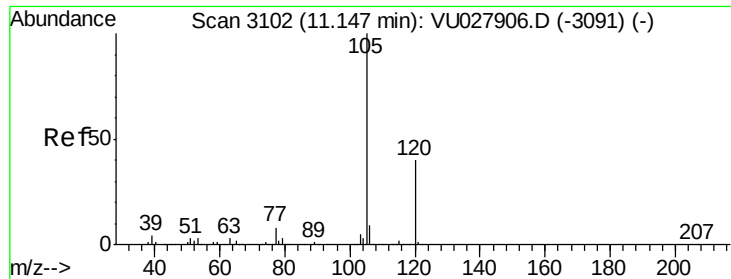


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

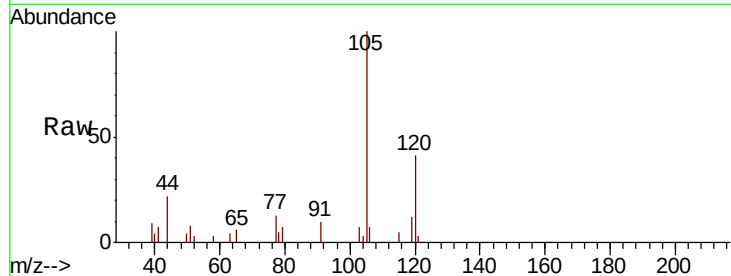




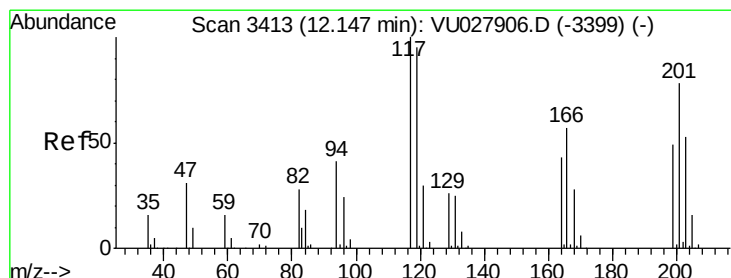
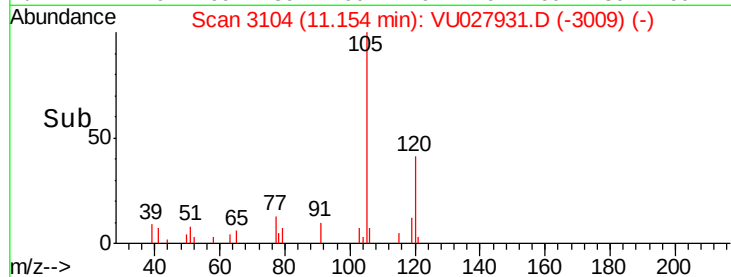
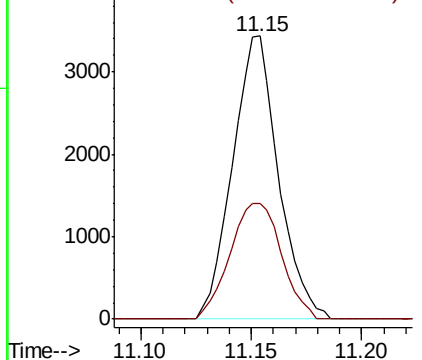
#84
 1,2,4-Trimethylbenzene
 Concen: 0.648 ug/l
 RT: 11.15 min Scan# 3104
 Delta R.T. 0.01 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4

Tot Ion:105 Resp: 4967
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.1 66.1

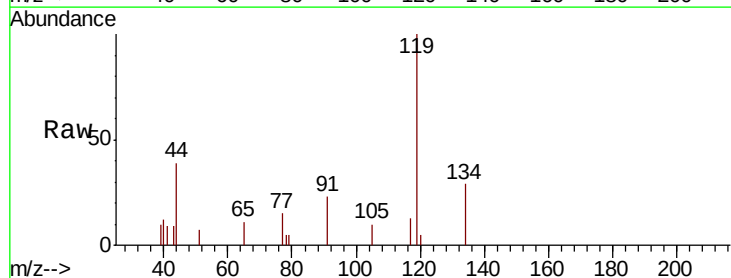


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

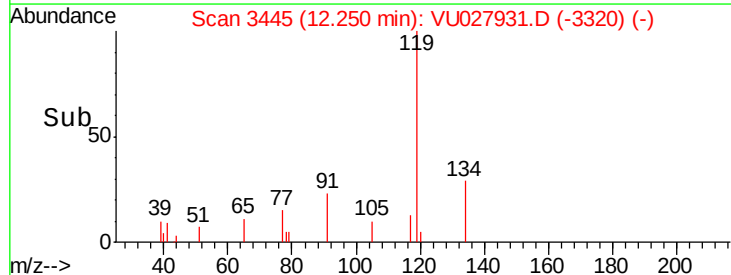
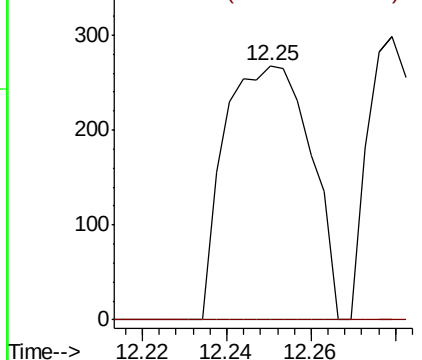


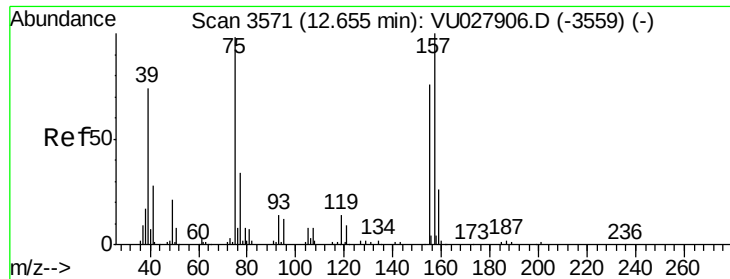
#90
 Hexachloroethane
 Concen: 0.275 ug/l
 RT: 12.25 min Scan# 3445
 Delta R.T. 0.10 min
 Lab File: VU027931.D
 Acq: 02 Nov 2018 17:12

Tgt Ion:117 Resp: 379
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.5 115.5#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.416 ug/l

RT: 12.48 min Scan# 3517

Delta R.T. -0.17 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

Instrument :

MSVOA_U

ClientSampleId :

TP-4

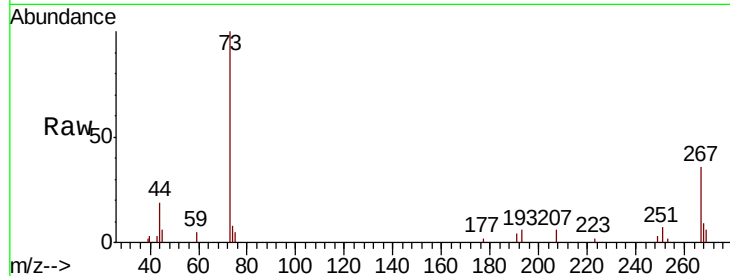
Tot Ion: 75 Resp: 325

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

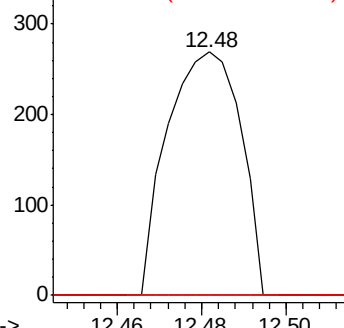
157 0.0 50.6 151.9#



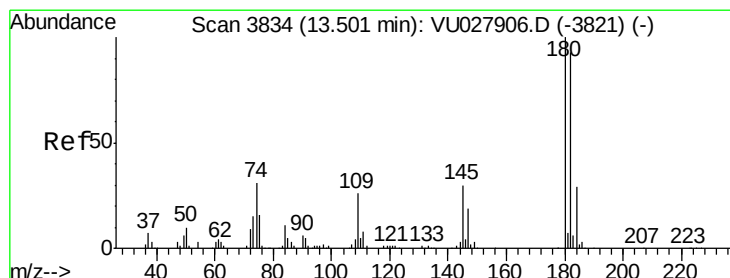
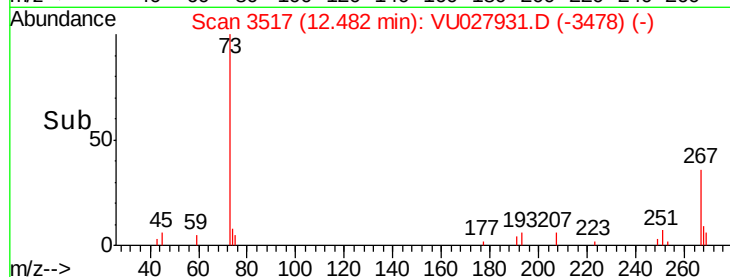
Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.826 ug/l

RT: 13.51 min Scan# 3836

Delta R.T. 0.01 min

Lab File: VU027931.D

Acq: 02 Nov 2018 17:12

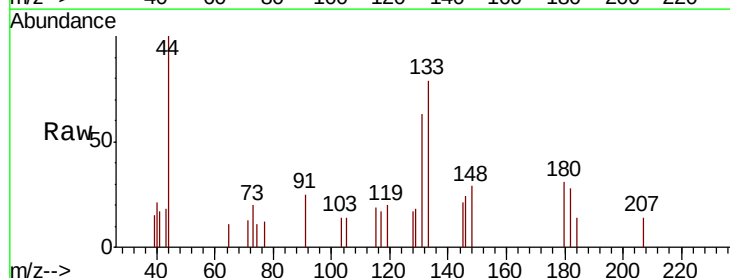
Tgt Ion: 180 Resp: 395

Ion Ratio Lower Upper

180 100

182 68.4 48.4 145.2

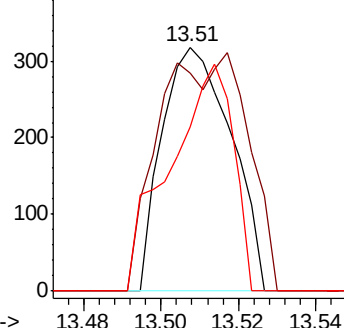
145 85.3 14.9 44.5#



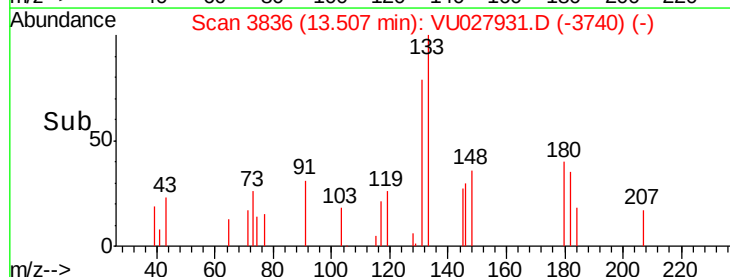
Abundance Ion 179.80 (179.50 to 180.50): V

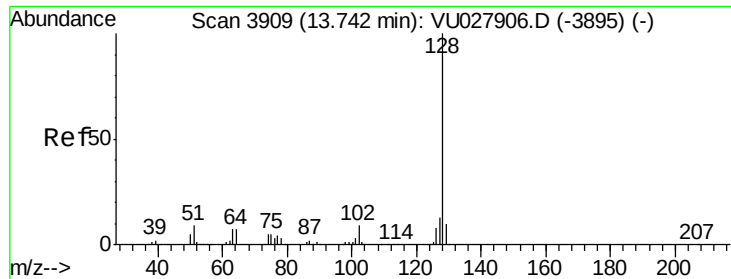
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->





#95
Naphthalene
Concen: 22.475 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU027931.D
Acq: 02 Nov 2018 17:12

Instrument :
MSVOA_U
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.7	8.3	12.5

