

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029164.D
 Acq On : 14 Jan 2019 14:36
 Operator : JC/SP
 Sample : K1137-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:47:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	127866	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.89	114	217781	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	218685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	109994	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.35	65	80465	50.91	ug/l	0.05
Spiked Amount	50.000		Recovery	=	101.82%	
35) Dibromofluoromethane	4.89	113	53964	38.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.46%	
50) Toluene-d8	7.59	98	298734	53.60	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.20%	
62) 4-Bromofluorobenzene	10.31	95	104092	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	

Target Compounds

					Qvalue	
3) Chloromethane	1.30	50	13086	5.849	ug/l #	69
4) Vinyl Chloride	1.40	62	1212	0.649	ug/l #	79
5) Bromomethane	1.63	94	233	Below Cal		100
6) Chloroethane	1.69	64	1177	1.057	ug/l #	73
8) Diethyl Ether	2.10	74	2937	3.002	ug/l	83
11) Tert butyl alcohol	2.83	59	10632	26.462	ug/l #	73
13) Acrolein	2.18	56	427956	1418.497	ug/l #	1
14) Allyl chloride	2.68	41	954299	392.192	ug/l #	26
15) Acrylonitrile	2.99	53	26215	26.595	ug/l #	38
16) Acetone	2.32	43	470210	472.211	ug/l	98
17) Carbon Disulfide	2.47	76	4368	0.442	ug/l	98
18) Methyl Acetate	2.63	43	105189	45.432	ug/l #	53
19) Methyl tert-butyl Ether	3.00	73	44280	9.497	ug/l #	1
20) Methylene Chloride	2.65	84	58088	34.358	ug/l #	16
22) Diisopropyl ether	3.57	45	39169	8.145	ug/l	95
23) Vinyl Acetate	3.56	43	57470	14.618	ug/l #	76
24) 1,1-Dichloroethane	3.42	63	6010	2.165	ug/l #	83
25) 2-Butanone	4.26	43	342009	254.296	ug/l	100
28) Bromochloromethane	4.77	49	8155	6.860	ug/l #	12
29) Tetrahydrofuran	4.64	42	3647	4.471	ug/l #	82
30) Chloroform	4.73	83	44201	16.716	ug/l #	27
31) Cyclohexane	5.00	56	504075	195.620	ug/l	97
37) Ethyl Acetate	4.26	43	342009	143.135	ug/l #	66
38) Carbon Tetrachloride	4.99	117	11248	6.195	ug/l #	16
39) Methylcyclohexane	6.41	83	271598	101.489	ug/l	96
41) Methacrylonitrile	4.59	41	13767	10.764	ug/l #	37
42) 1,2-Dichloroethane	5.45	62	1496652	733.525	ug/l	84
43) Isopropyl Acetate	5.55	43	99464	27.136	ug/l #	58
45) 1,2-Dichloropropane	6.43	63	48433	27.010	ug/l #	85
46) Dibromomethane	6.55	93	1027	0.896	ug/l #	1
47) Bromodichloromethane	6.71	83	2226	1.055	ug/l #	47
48) Methyl methacrylate	6.64	41	28996	16.246	ug/l #	41
51) 4-Methyl-2-Pentanone	7.37	43	93003	37.284	ug/l #	56
53) t-1,3-Dichloropropene	7.73	75	1904369	751.153	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

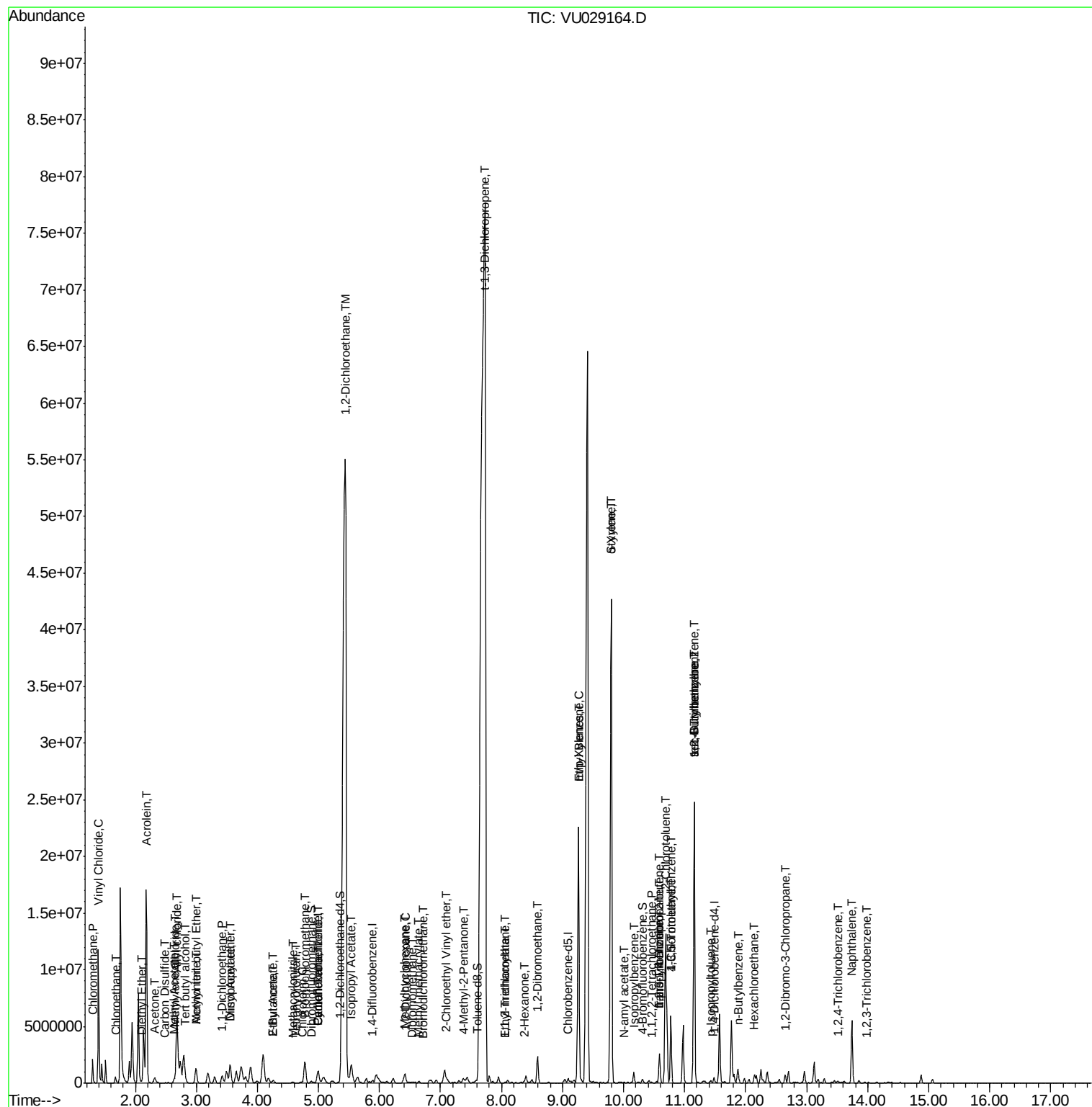
55) 1,1,2-Trichloroethane	8.05	97	27271	16.468	ug/l #	23
56) Ethyl methacrylate	8.05	69	5951	2.333	ug/l #	29
58) 2-Chloroethyl Vinyl ether	7.10	63	308588	275.038	ug/l #	52
59) 2-Hexanone	8.37	43	32033	16.359	ug/l	95
61) 1,2-Dibromoethane	8.59	107	1503953	837.385	ug/l	99
67) Ethyl Benzene	9.26	91	16007124	1955.903	ug/l #	88
68) m/p-Xylenes	9.26	106	5483134	1724.320	ug/l #	41
69) o-Xylene	9.80	106	12739832	4157.994	ug/l #	1
70) Styrene	9.80	104	653197	130.046	ug/l #	1
73) Isopropylbenzene	10.17	105	586428	72.030	ug/l	100
74) N-amyl acetate	10.01	43	6553	1.868	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	10.46	83	20851	6.390	ug/l #	25
76) 1,2,3-Trichloropropane	10.59	75	11421	4.238	ug/l #	1
78) n-propylbenzene	10.59	91	2004675	208.938	ug/l	99
79) 2-Chlorotoluene	10.69	91	1349952	231.942	ug/l #	41
80) 1,3,5-Trimethylbenzene	10.77	105	3071730	451.806	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.59	75	11421	10.930	ug/l #	100
82) 4-Chlorotoluene	10.77	91	310665	46.550	ug/l #	44
83) tert-Butylbenzene	11.16	119	1637779	244.406	ug/l #	59
84) 1,2,4-Trimethylbenzene	11.16	105	12956573	1908.780	ug/l	99
85) sec-Butylbenzene	11.16	105	12956573	1598.738	ug/l #	57
86) p-Isopropyltoluene	11.43	119	99708	14.438	ug/l	98
89) n-Butylbenzene	11.88	91	205217	33.295	ug/l #	11
90) Hexachloroethane	12.14	117	38409	33.061	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.65	75	2975	4.740	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.50	180	925	0.370	ug/l #	1
95) Naphthalene	13.74	128	4316917	507.166	ug/l	99
96) 1,2,3-Trichlorobenzene	13.98	180	674	1.033	ug/l #	77

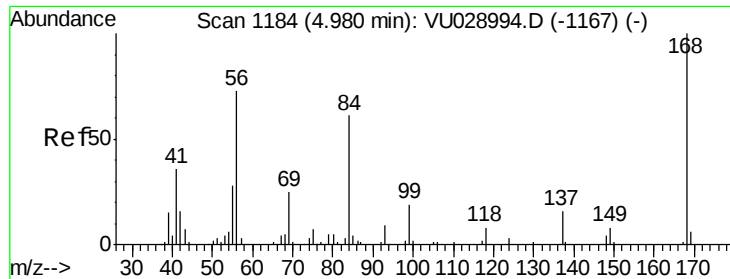
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

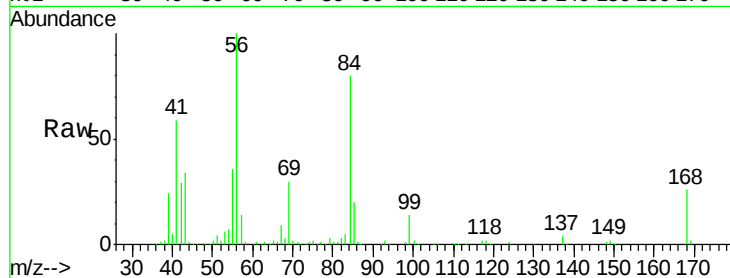
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 127866

Ion Ratio Lower Upper

168 100

99 51.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.99

50000

40000

30000

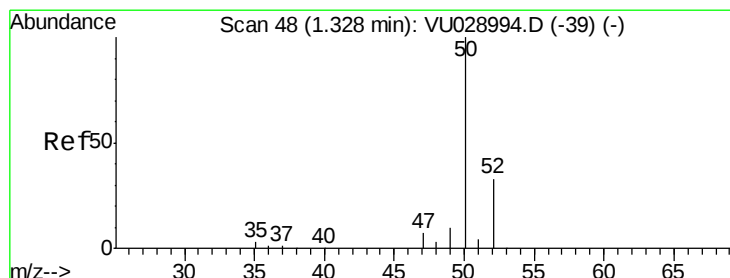
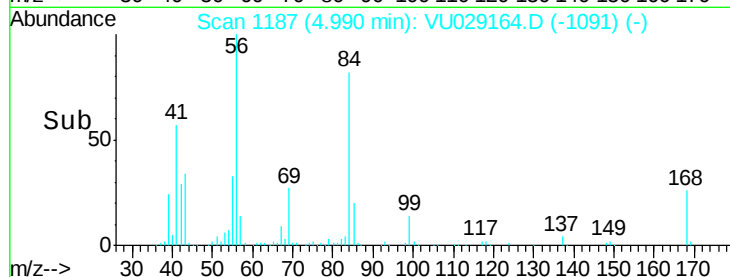
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 5.849 ug/l

RT: 1.30 min Scan# 40

Delta R.T. -0.02 min

Lab File: VU029164.D

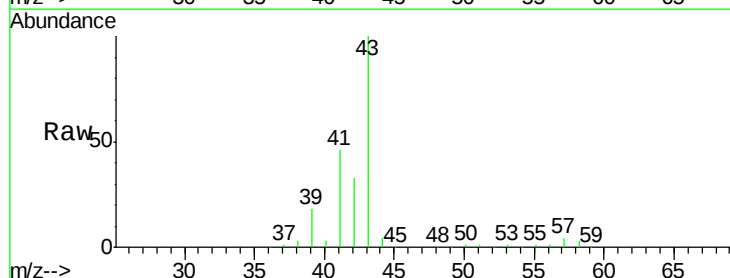
Acq: 14 Jan 2019 14:36

Tgt Ion: 50 Resp: 13086

Ion Ratio Lower Upper

50 100

52 15.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.30

15000

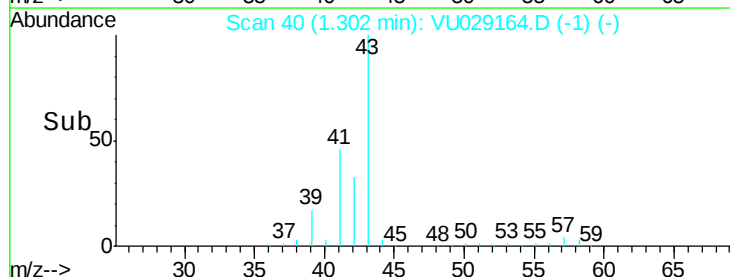
10000

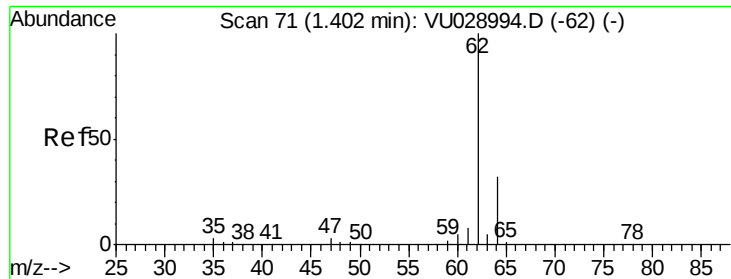
5000

0

1.26 1.28 1.30 1.32

Time-->





#4

Vinyl Chloride

Concen: 0.649 ug/l

RT: 1.40 min Scan# 70

Delta R.T. -0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

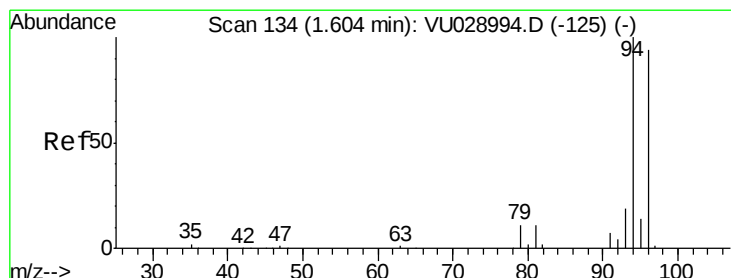
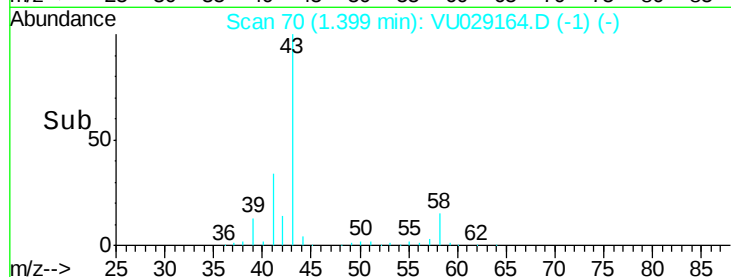
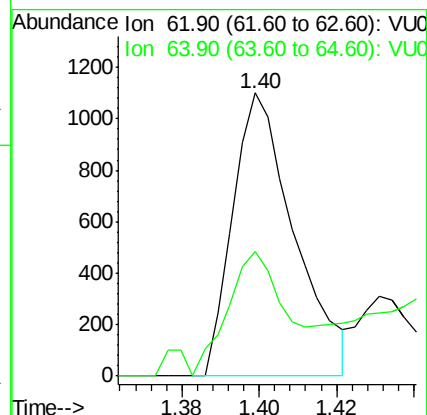
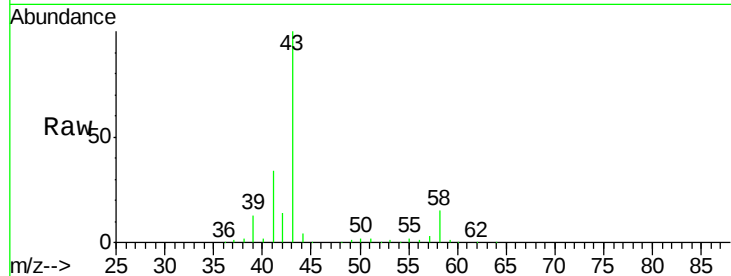
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 1212

Ion Ratio Lower Upper

62 100

64 44.2 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 142

Delta R.T. 0.03 min

Lab File: VU029164.D

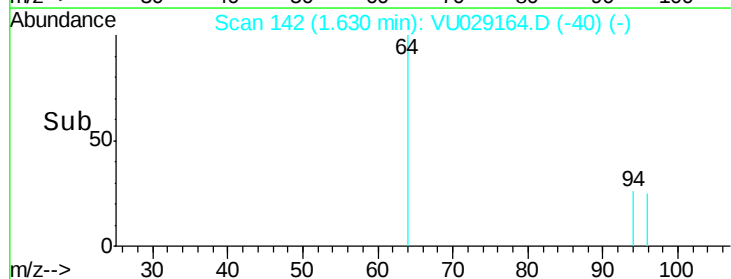
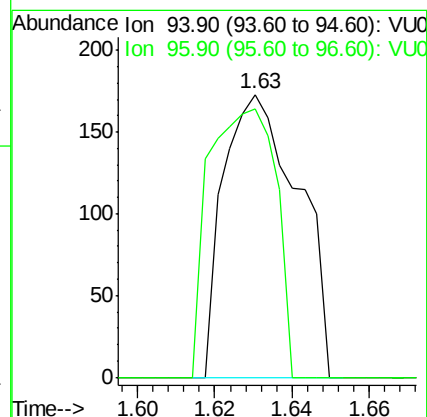
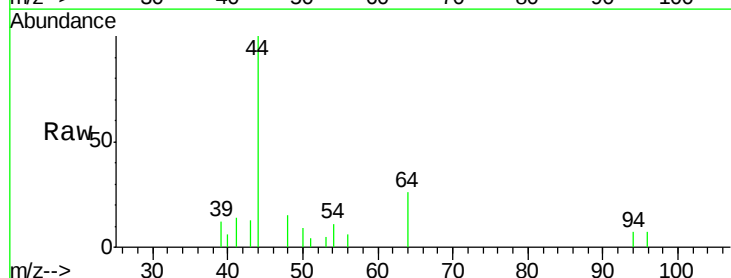
Acq: 14 Jan 2019 14:36

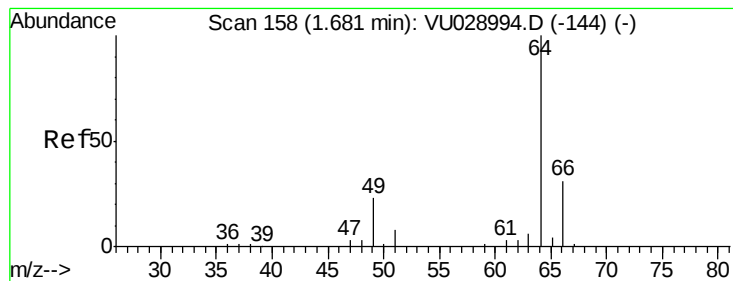
Tgt Ion: 94 Resp: 233

Ion Ratio Lower Upper

94 100

96 94.8 75.5 113.3





#6

Chloroethane

Concen: 1.057 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

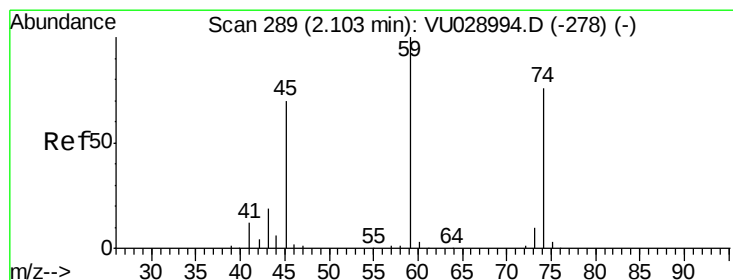
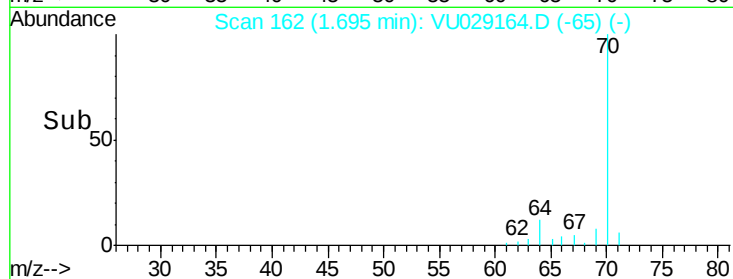
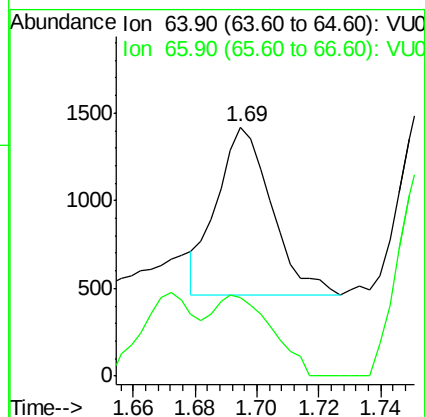
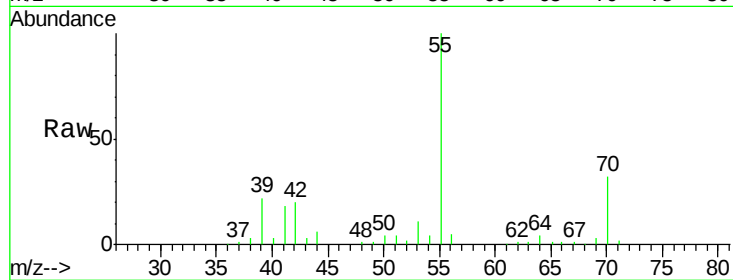
ClientSampleId :

Tot Ion: 64 Resp: 1177

Ion Ratio Lower Upper

64 100

66 46.6 25.2 37.8#



#8

Diethyl Ether

Concen: 3.002 ug/l

RT: 2.10 min Scan# 289

Delta R.T. 0.00 min

Lab File: VU029164.D

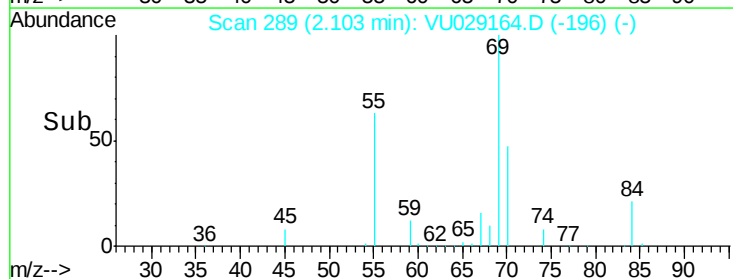
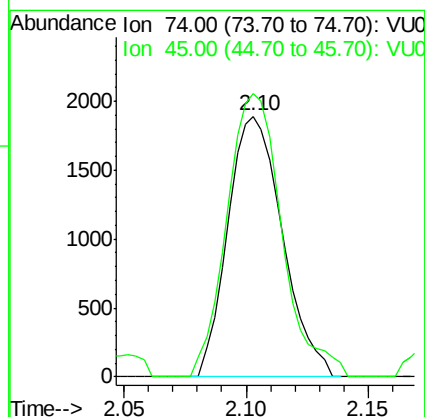
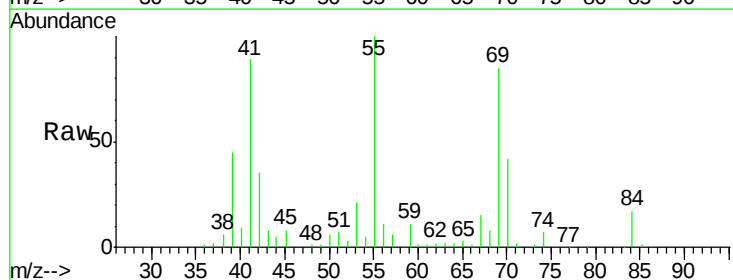
Acq: 14 Jan 2019 14:36

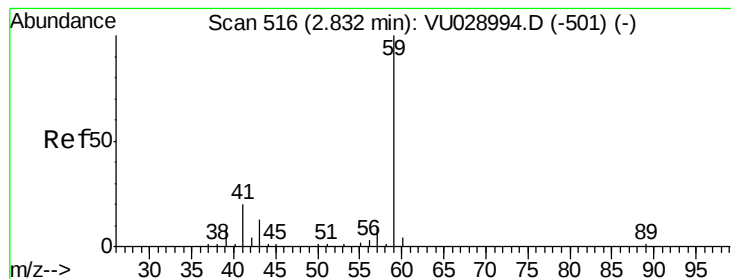
Tgt Ion: 74 Resp: 2937

Ion Ratio Lower Upper

74 100

45 109.7 46.9 140.6



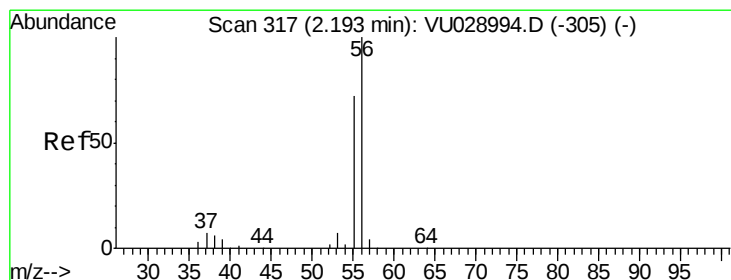
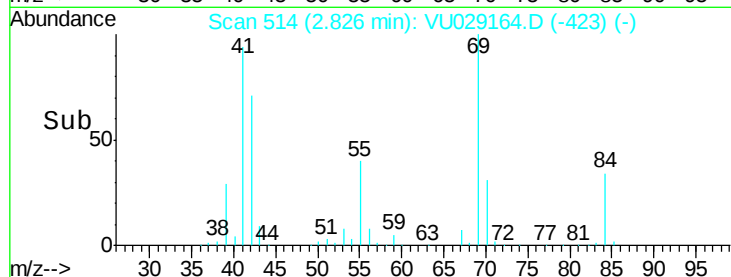
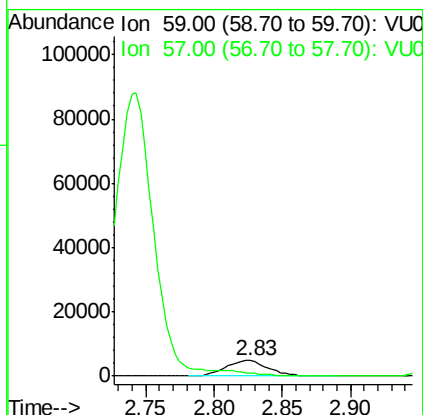
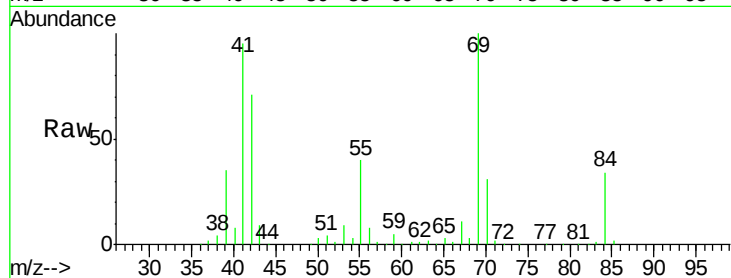


#11

Tert butyl alcohol
Concen: 26.462 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

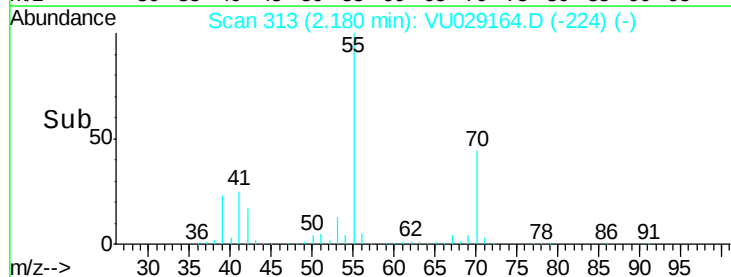
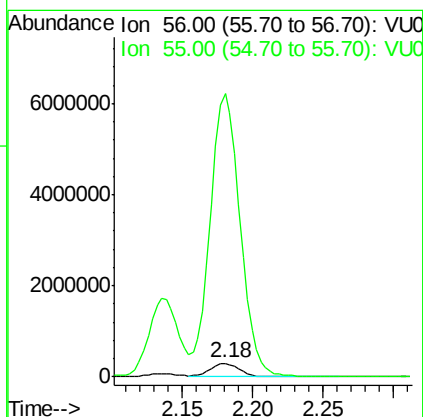
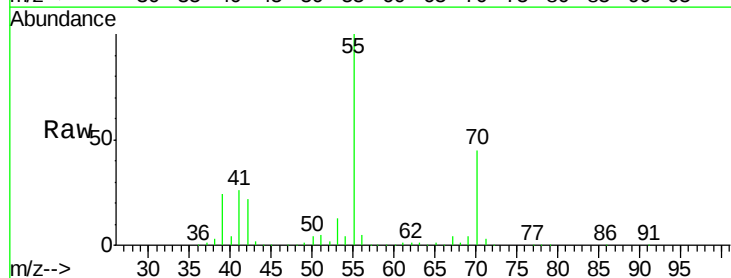
Tot Ion: 59 Resp: 10632
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

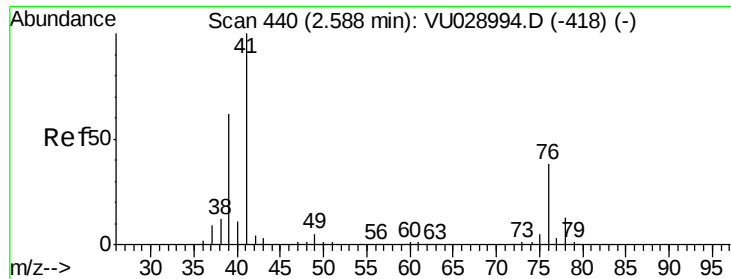


#13

Acrolein
Concen: 1418.497 ug/l
RT: 2.18 min Scan# 313
Delta R.T. -0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion: 56 Resp: 427956
Ion Ratio Lower Upper
56 100
55 2143.0 56.5 84.7#





#14

Allvl chloride

Concen: 392.192 ug/l

RT: 2.68 min Scan# 469

Delta R.T. 0.09 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

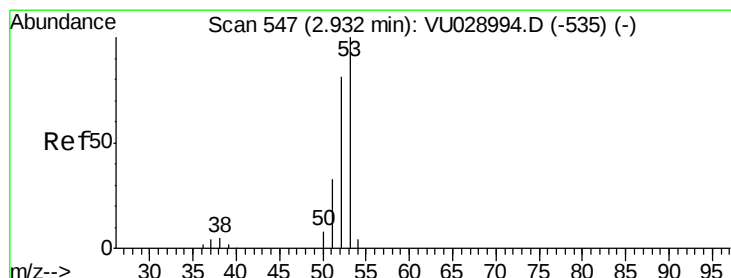
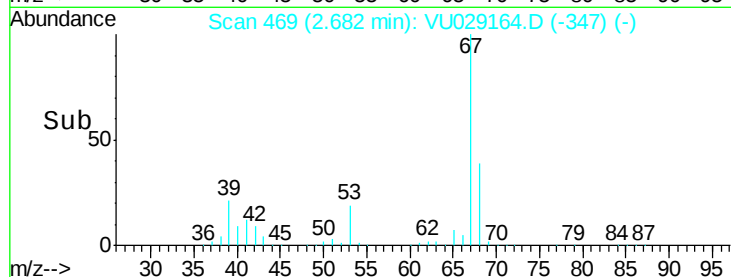
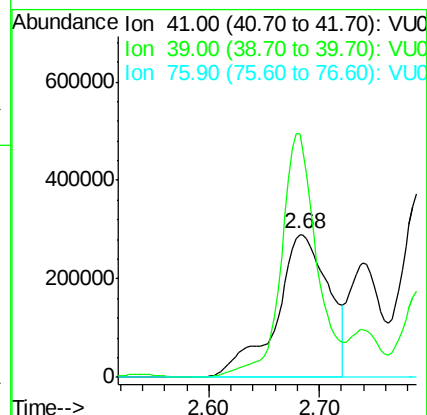
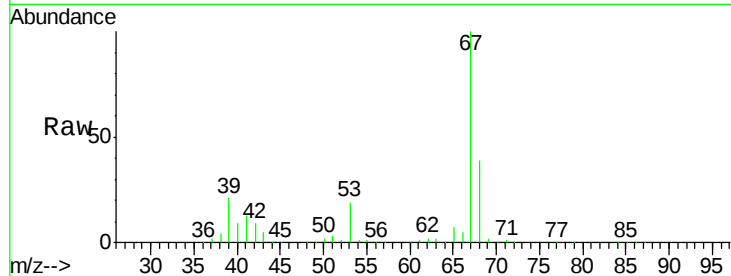
Tot Ion: 41 Resp: 954299

Ion Ratio Lower Upper

41 100

39 116.2 45.0 67.6#

76 0.0 28.1 42.1#



#15

Acrylonitrile

Concen: 26.595 ug/l

RT: 2.99 min Scan# 566

Delta R.T. 0.06 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

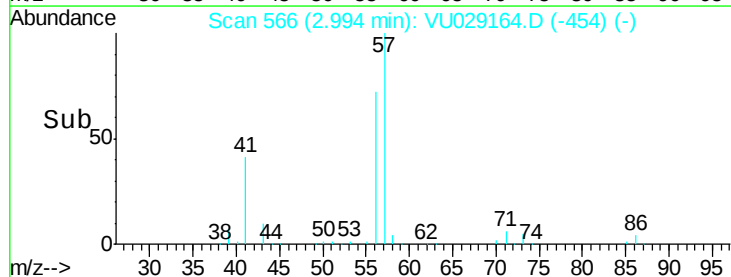
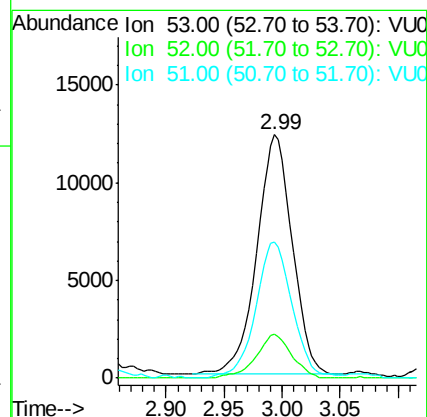
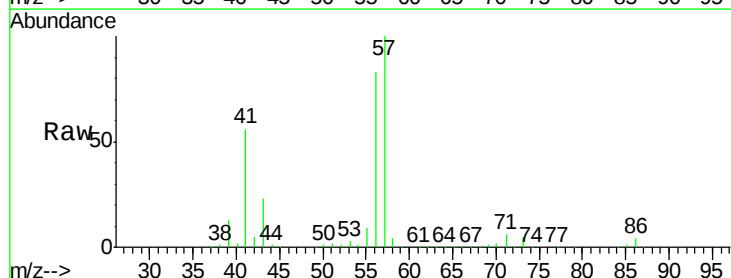
Tgt Ion: 53 Resp: 26215

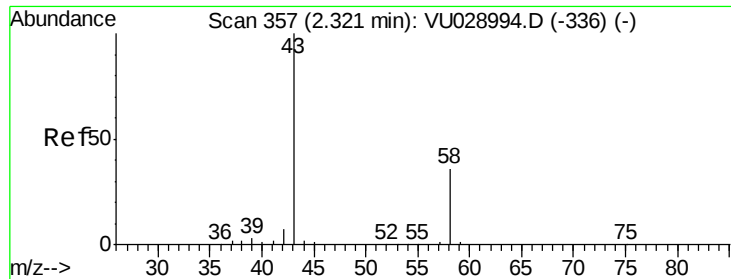
Ion Ratio Lower Upper

53 100

52 18.3 64.8 97.2#

51 58.4 27.3 40.9#





#16

Acetone

Concen: 472.211 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

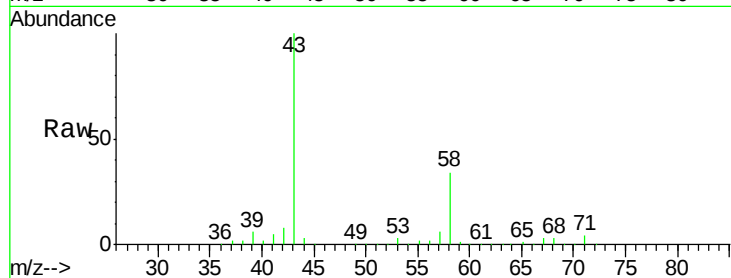
ClientSampleId :

Tot Ion: 43 Resp: 470210

Ion Ratio Lower Upper

43 100

58 34.3 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-336) (-)

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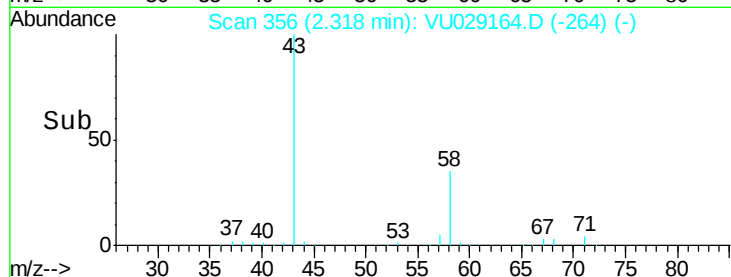
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Abundance Ion 43.00 (42.70 to 43.70): VU029164.D (-264) (-)

Ion 58.00 (57.70 to 58.70): VU029164.D (-264) (-)

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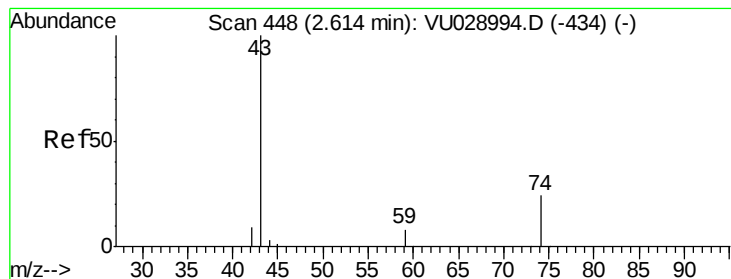
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#18

Methyl Acetate

Concen: 45.432 ug/l

RT: 2.63 min Scan# 453

Delta R.T. 0.02 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

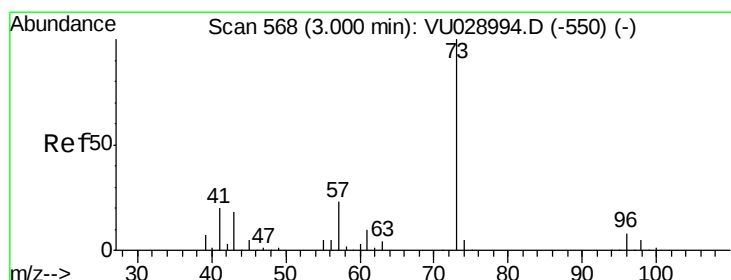
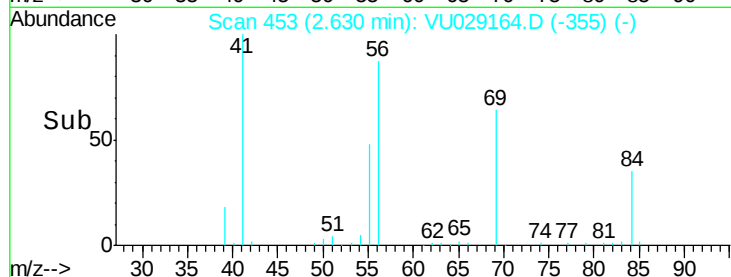
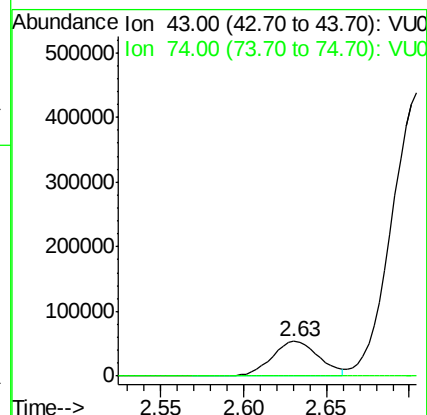
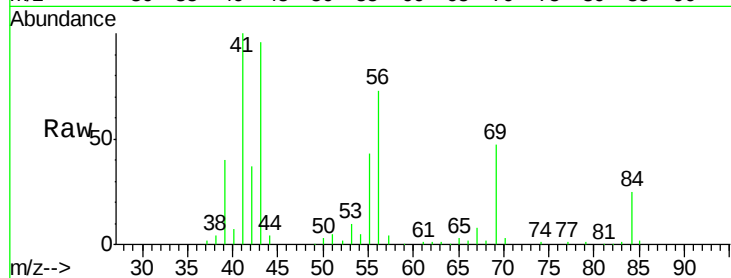
ClientSampled :

Tot Ion: 43 Resp: 105189

Ion Ratio Lower Upper

43 100

74 1.2 19.5 29.3#



#19

Methyl tert-butyl Ether

Concen: 9.497 ug/l

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU029164.D

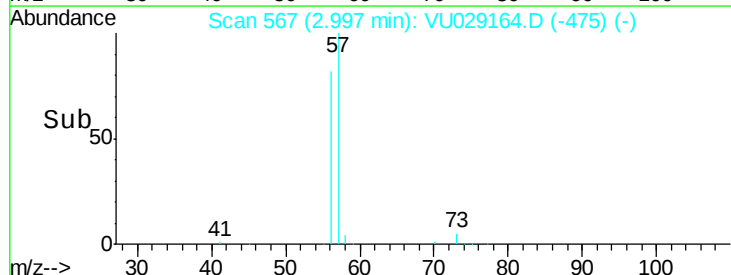
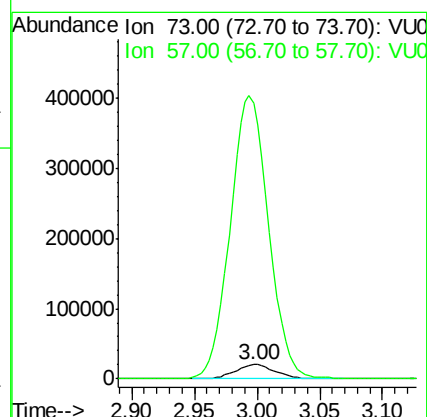
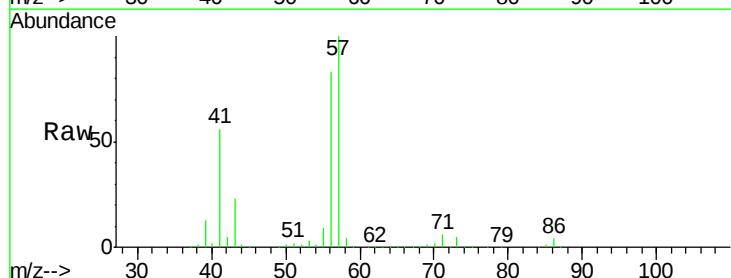
Acq: 14 Jan 2019 14:36

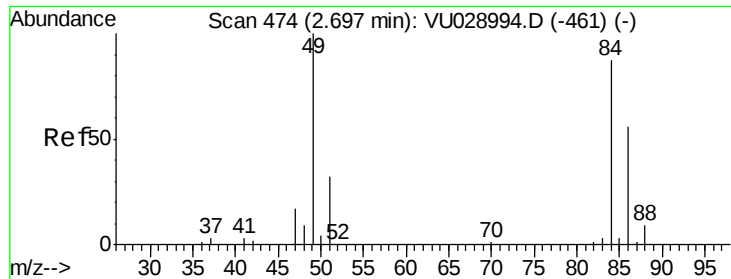
Tgt Ion: 73 Resp: 44280

Ion Ratio Lower Upper

73 100

57 1916.8 18.6 28.0#





#20

Methylene Chloride

Concen: 34.358 ug/l

RT: 2.65 min Scan# 458

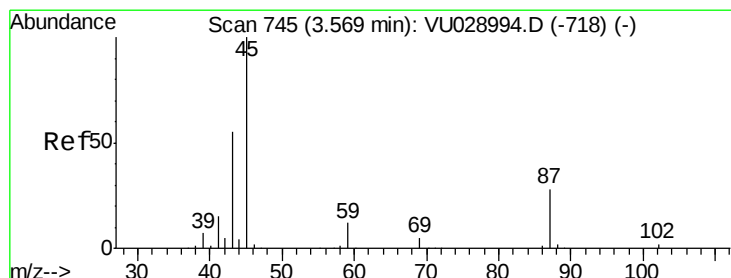
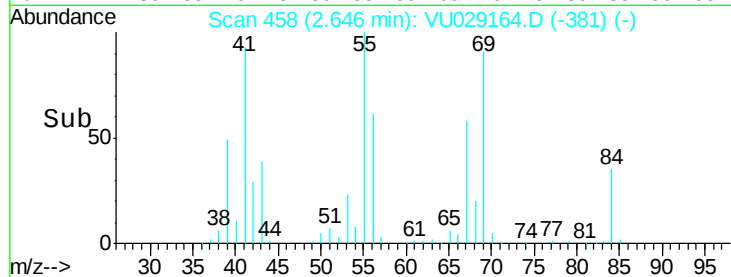
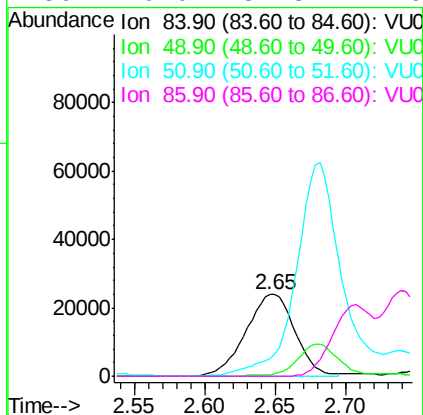
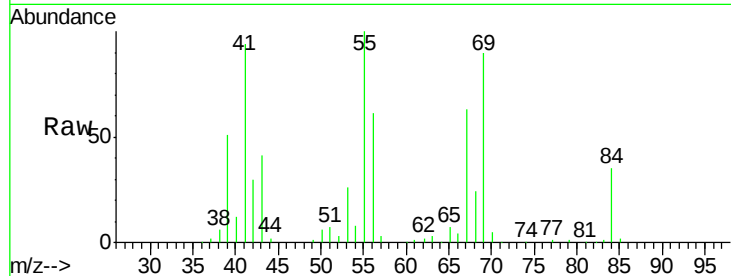
Delta R.T. -0.05 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	84	Resp:	58088
Ion	Ratio	Lower	Upper
84	100		
49	2.2	91.9	137.9#
51	20.7	29.2	43.8#
86	0.0	51.8	77.6#



#22

Diisopropyl ether

Concen: 8.145 ug/l

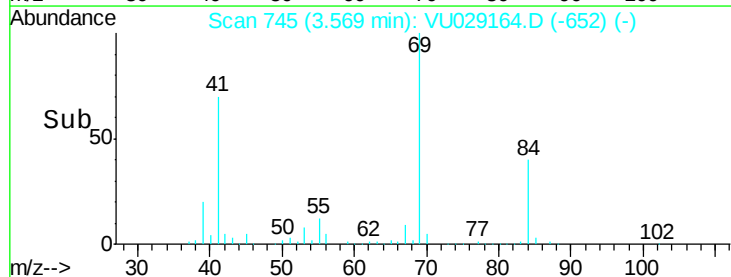
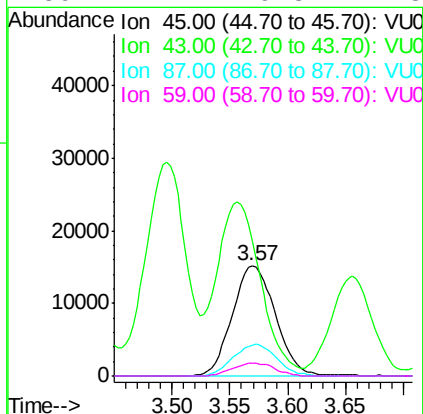
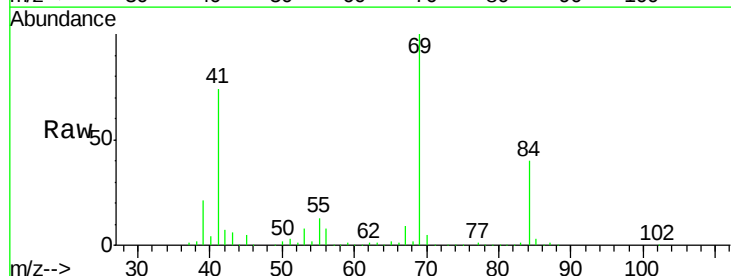
RT: 3.57 min Scan# 745

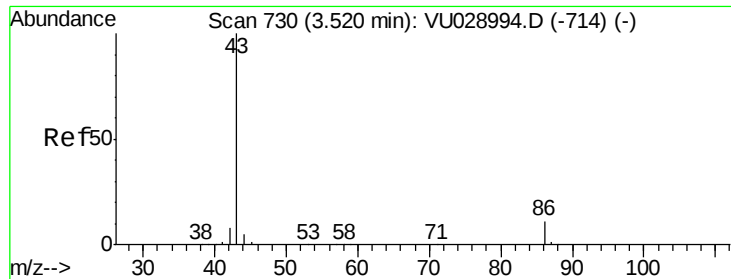
Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Tgt Ion:	45	Resp:	39169
Ion	Ratio	Lower	Upper
45	100		
43	50.6	44.7	67.1
87	28.3	22.2	33.2
59	12.1	9.8	14.8





#23

Vinyl Acetate

Concen: 14.618 ug/l

RT: 3.56 min Scan# 741

Delta R.T. 0.04 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

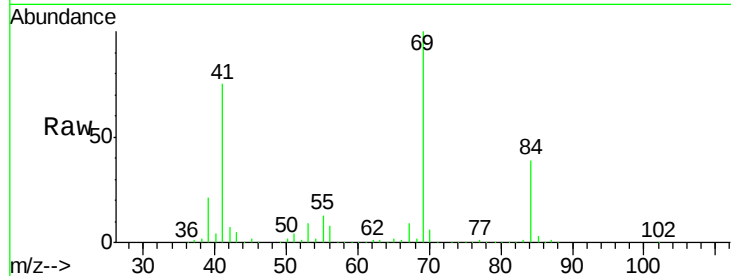
ClientSampled :

Tot Ion: 43 Resp: 57470

Ion Ratio Lower Upper

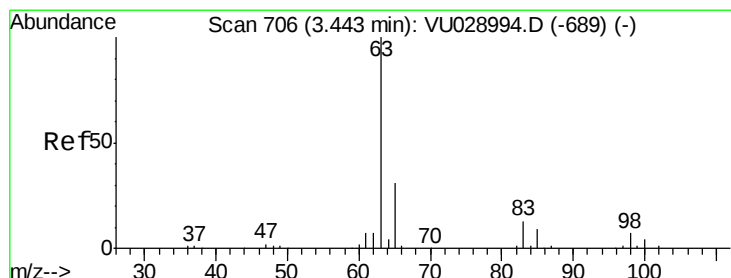
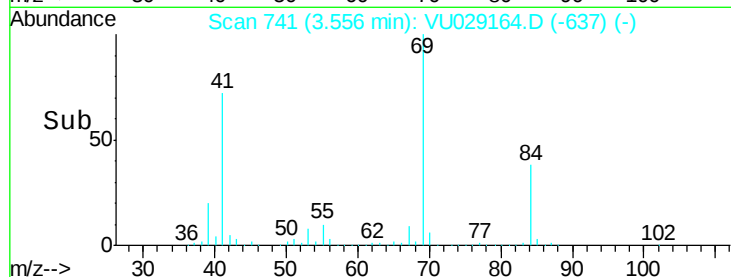
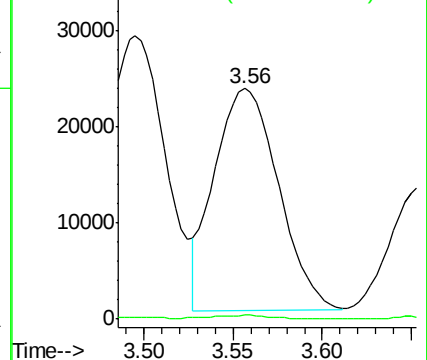
43 100

86 1.7 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 2.165 ug/l

RT: 3.42 min Scan# 700

Delta R.T. -0.02 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

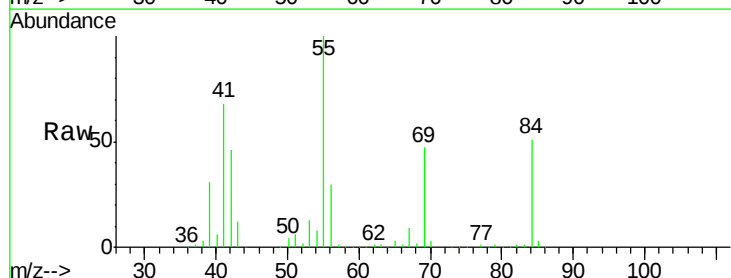
Tgt Ion: 63 Resp: 6010

Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

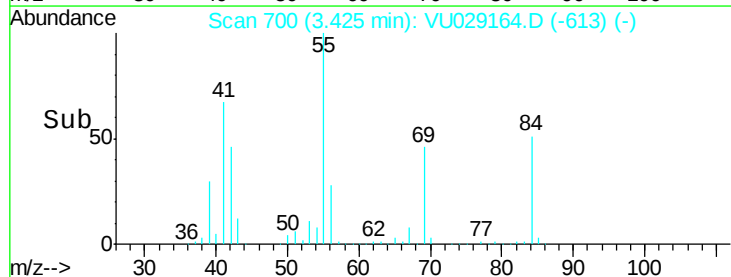
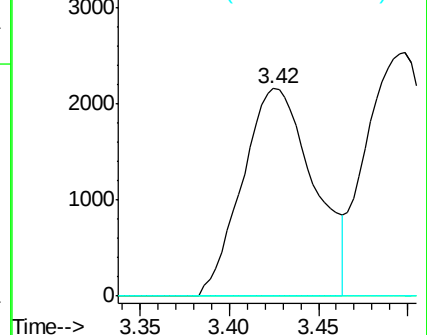
100 0.0 2.0 5.8#

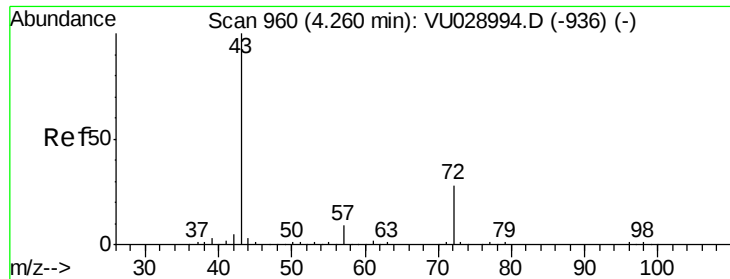


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





#25

2-Butanone

Concen: 254.296 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

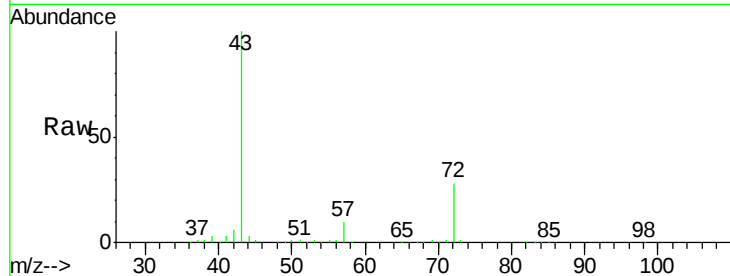
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 342009

Ion Ratio Lower Upper

43 100

72 28.4 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-936) (-)

Ion 72.00 (71.70 to 72.70): VU028994.D (-936) (-)

4.26

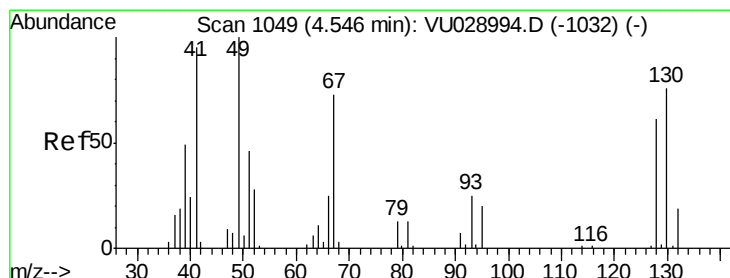
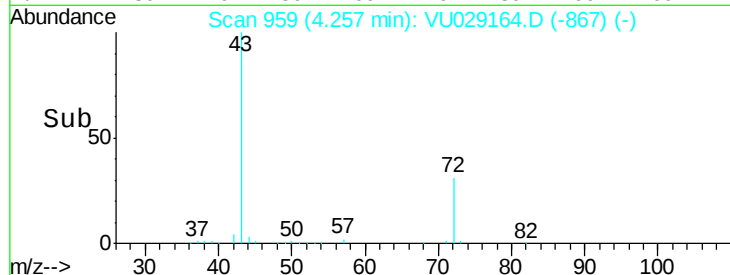
150000

100000

50000

0

Time--> 4.10 4.20 4.30 4.40 4.50



#28

Bromochloromethane

Concen: 6.860 ug/l

RT: 4.77 min Scan# 1120

Delta R.T. 0.23 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

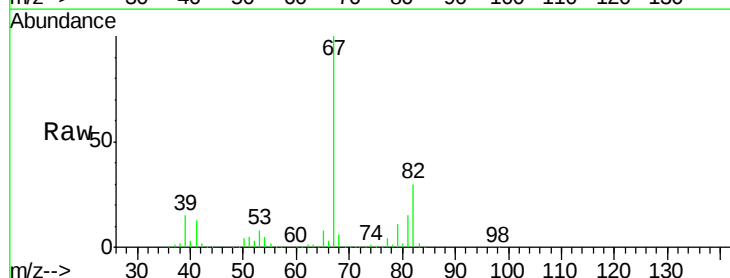
Tgt Ion: 49 Resp: 8155

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 62.9 94.3#



Abundance Ion 48.90 (48.60 to 49.60): VU028994.D (-1032) (-)

Ion 128.80 (128.50 to 129.50): VU028994.D (-1032) (-)

Ion 129.80 (129.50 to 130.50): VU028994.D (-1032) (-)

4.77

4000

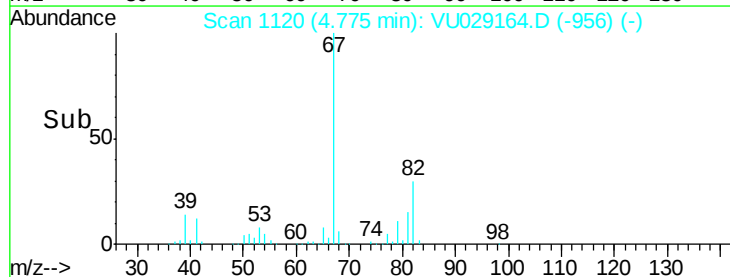
3000

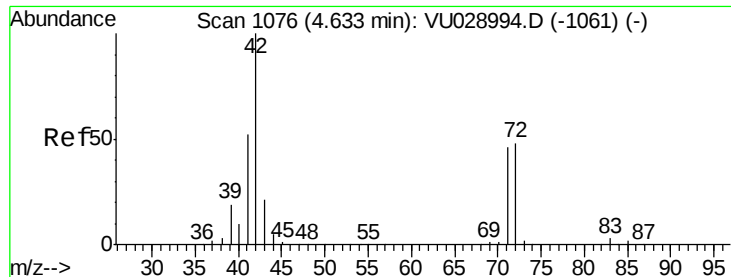
2000

1000

0

Time--> 4.70 4.75 4.80 4.85





#29

Tetrahydrofuran

Concen: 4.471 ug/l

RT: 4.64 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampled :

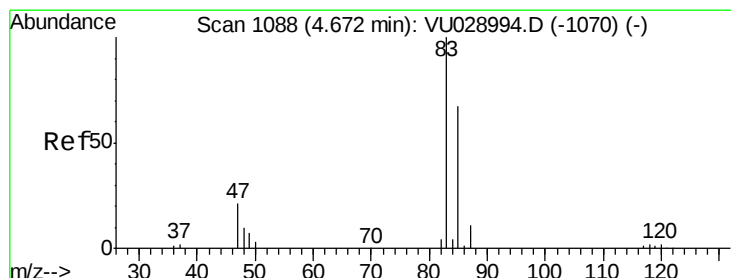
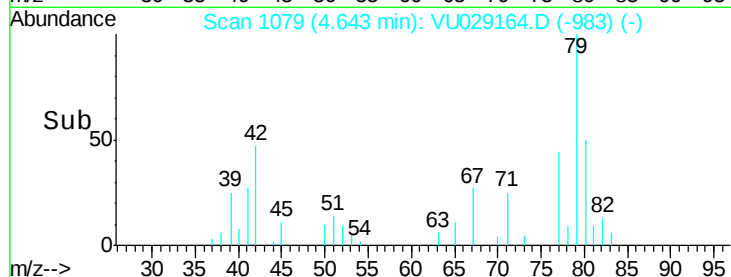
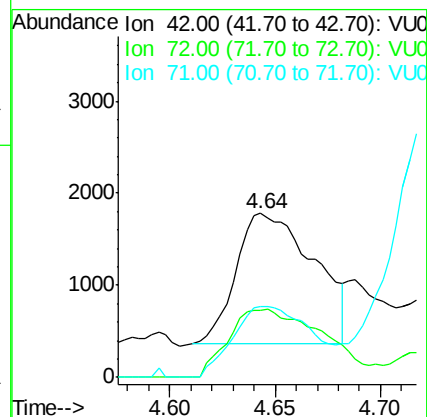
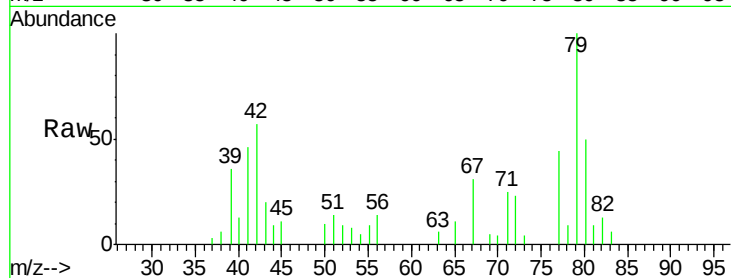
Tot Ion: 42 Resp: 3647

Ion Ratio Lower Upper

42 100

72 62.6 38.3 57.5#

71 54.8 36.1 54.1#



#30

Chloroform

Concen: 16.716 ug/l

RT: 4.73 min Scan# 1106

Delta R.T. 0.06 min

Lab File: VU029164.D

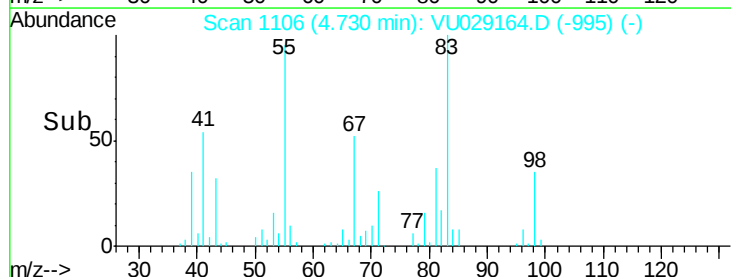
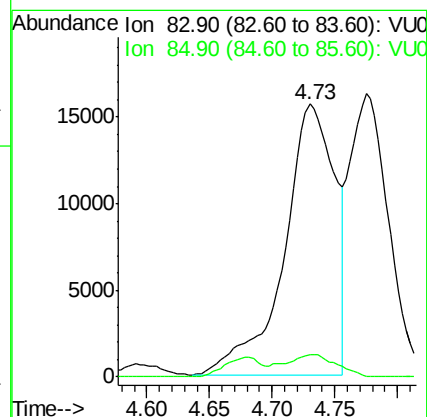
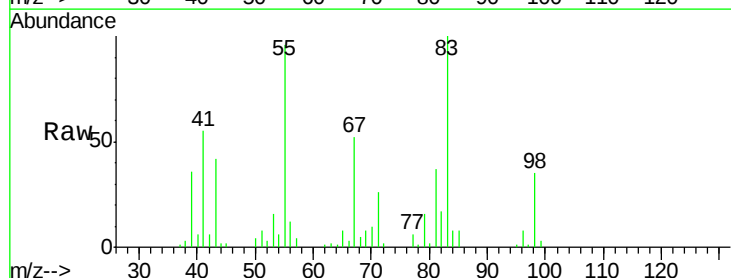
Acq: 14 Jan 2019 14:36

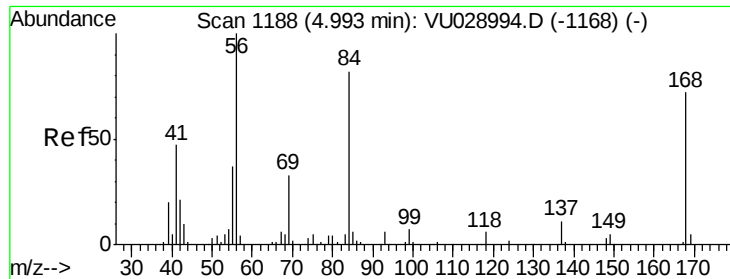
Tgt Ion: 83 Resp: 44201

Ion Ratio Lower Upper

83 100

85 8.1 53.4 80.0#

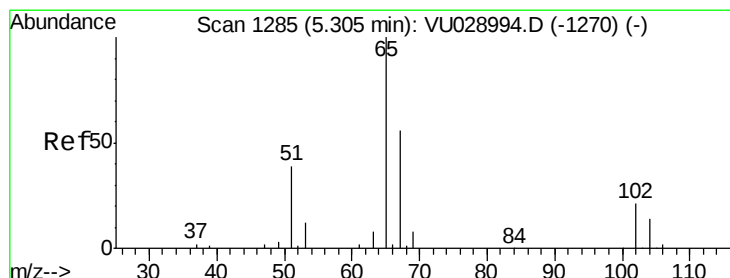
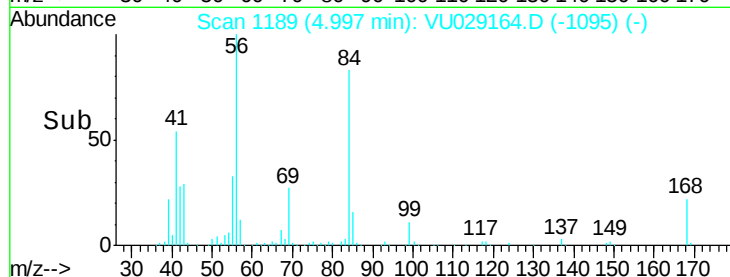
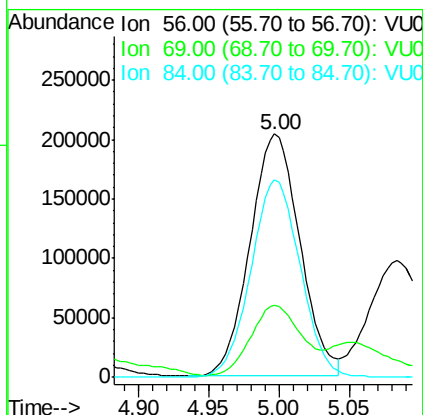
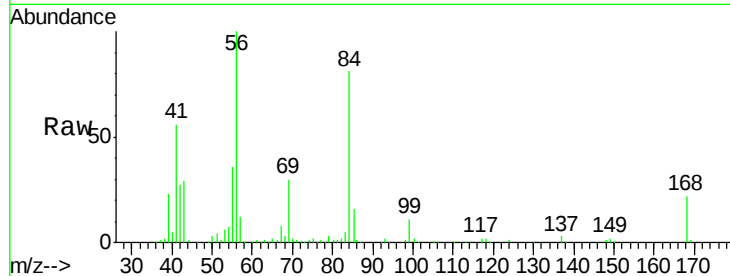




#31
Cyclohexane
Concen: 195.620 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

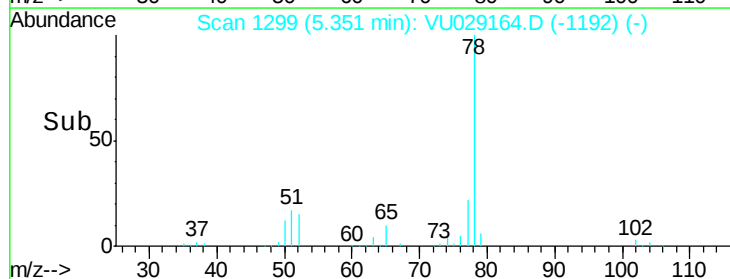
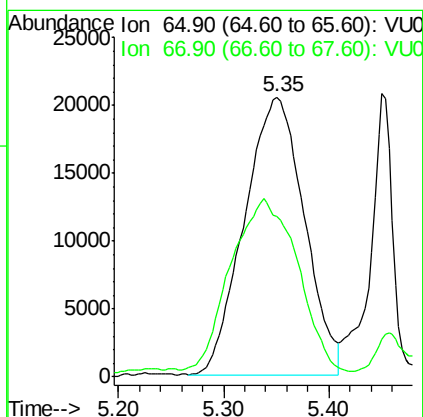
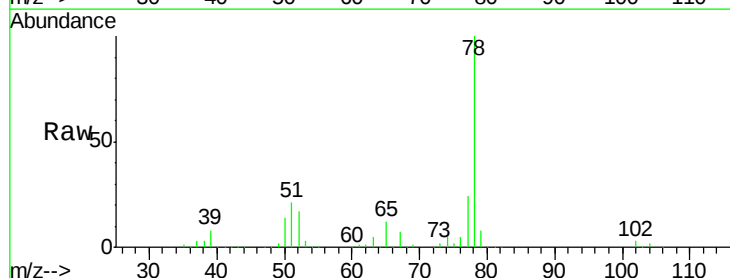
Instrument :
MSVOA_U
ClientSampled :

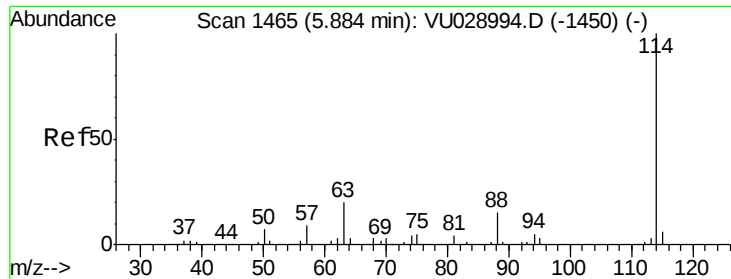
Tot Ion: 56 Resp: 504075
Ion Ratio Lower Upper
56 100
69 28.0 26.7 40.1
84 81.4 65.7 98.5



#33
1,2-Dichloroethane-d4
Concen: 50.905 ug/l
RT: 5.35 min Scan# 1299
Delta R.T. 0.05 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion: 65 Resp: 80465
Ion Ratio Lower Upper
65 100
67 69.4 0.0 111.0

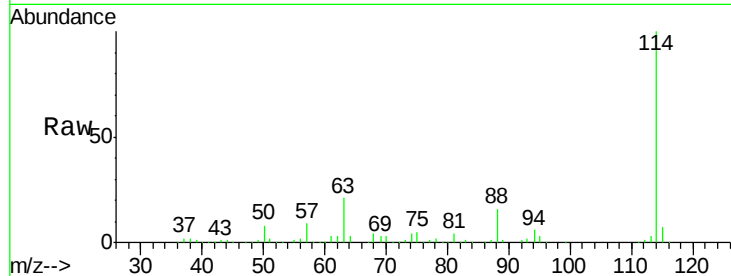




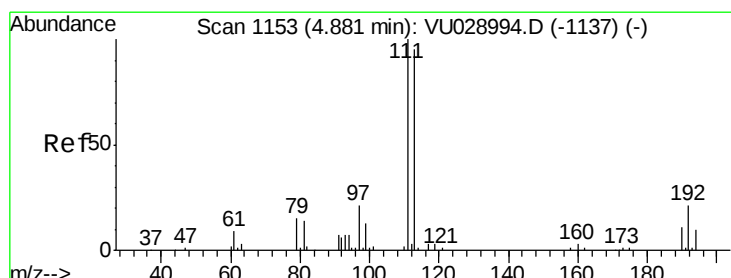
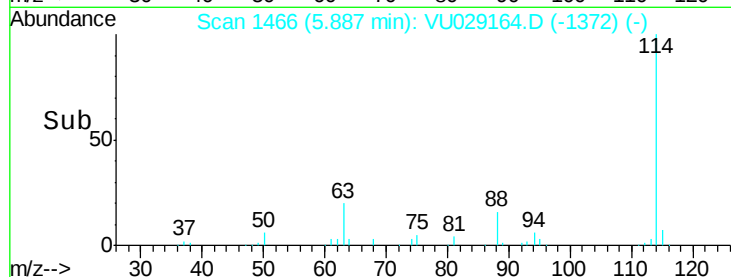
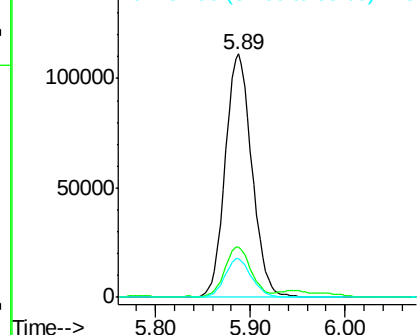
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU029164.D
 Acq: 14 Jan 2019 14:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 217781
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.2
 88 16.0 0.0 30.4

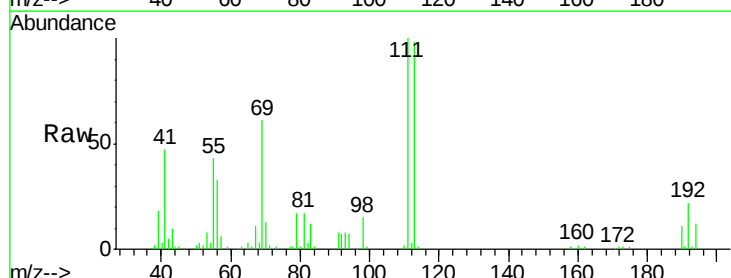


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

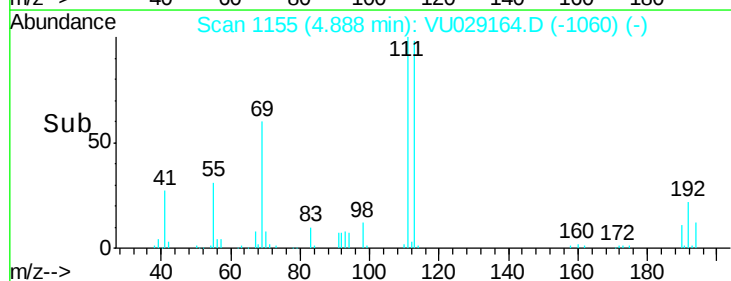
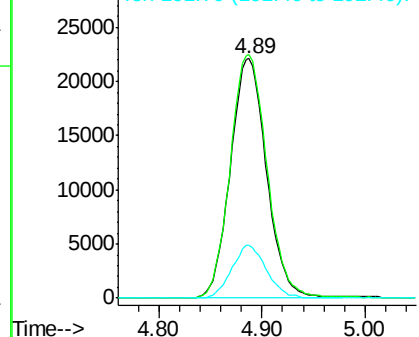


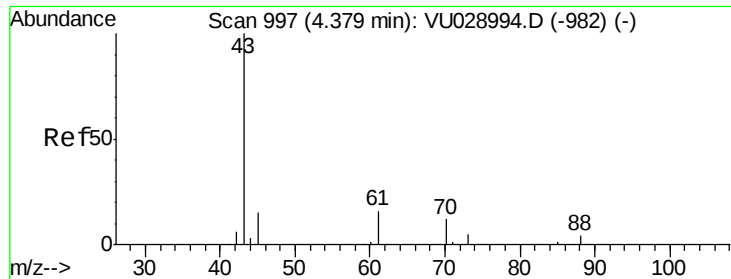
#35
 Dibromofluoromethane
 Concen: 38.226 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.01 min
 Lab File: VU029164.D
 Acq: 14 Jan 2019 14:36

Tgt Ion:113 Resp: 53964
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.4 122.2
 192 21.1 16.8 25.2



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





#37

Ethyl Acetate

Concen: 143.135 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.12 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

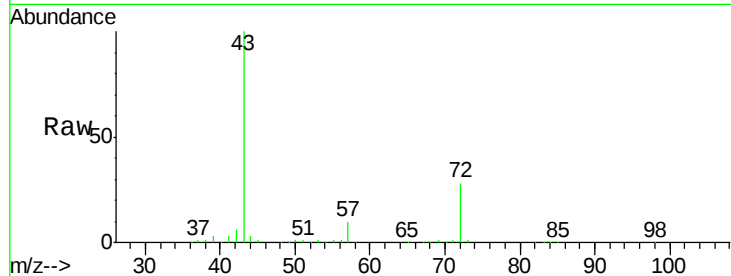
Tot Ion: 43 Resp: 342009

Ion Ratio Lower Upper

43 100

61 0.0 12.6 18.8#

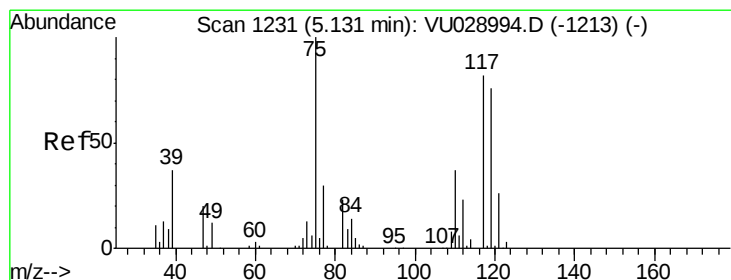
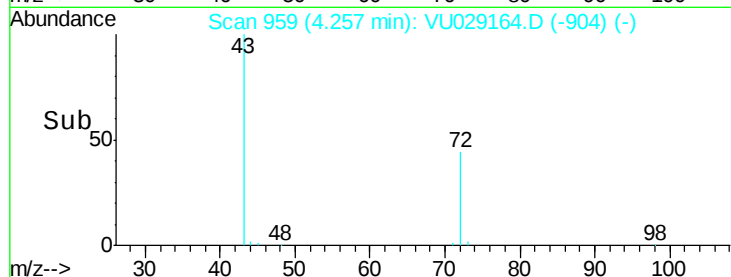
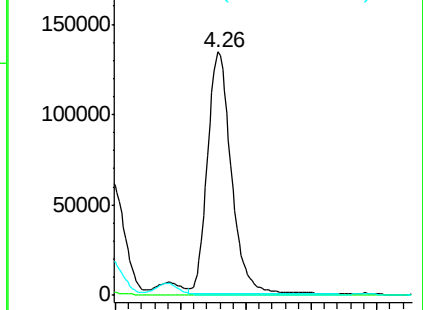
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028994.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028994.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 6.195 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.14 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

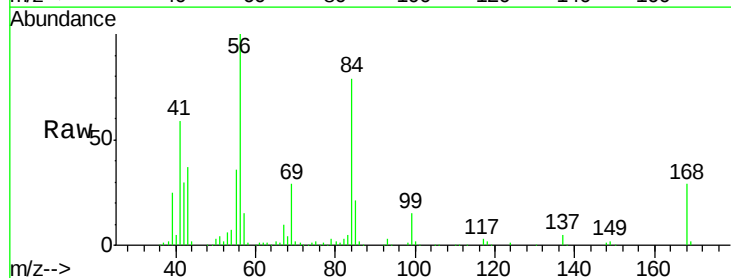
Tgt Ion: 117 Resp: 11248

Ion Ratio Lower Upper

117 100

119 3.8 74.6 111.8#

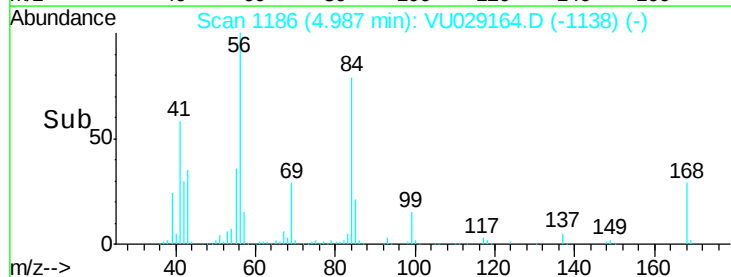
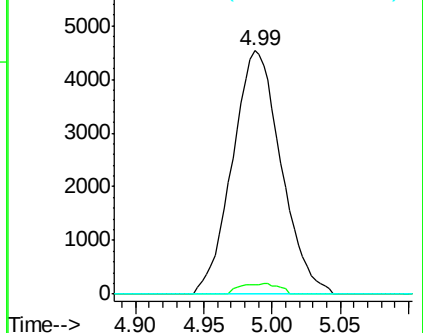
121 0.0 25.0 37.6#

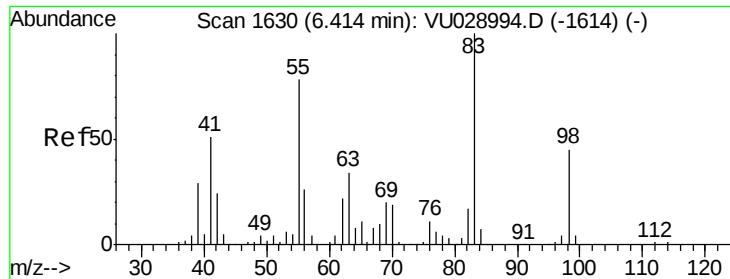


Abundance Ion 116.80 (116.50 to 117.50): VU028994.D (-1213) (-)

Ion 118.80 (118.50 to 119.50): VU028994.D (-1213) (-)

Ion 120.80 (120.50 to 121.50): VU028994.D (-1213) (-)

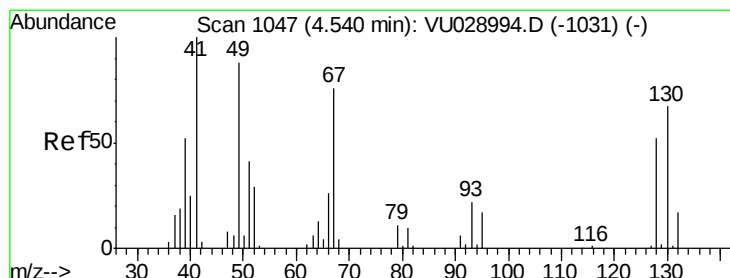
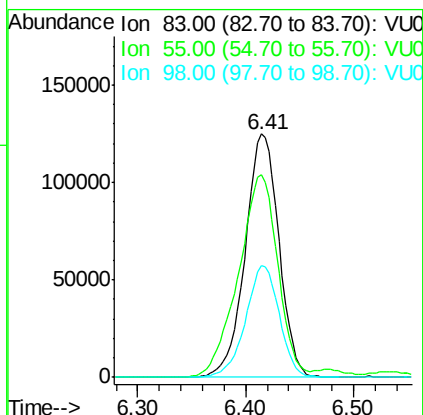
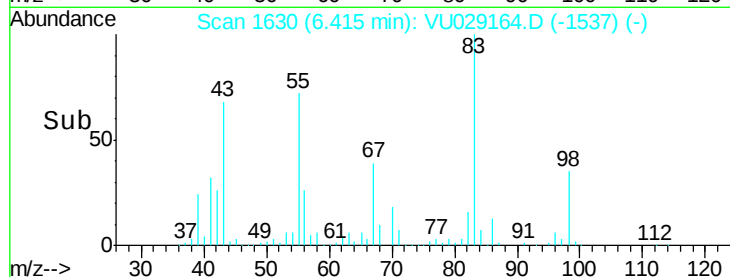
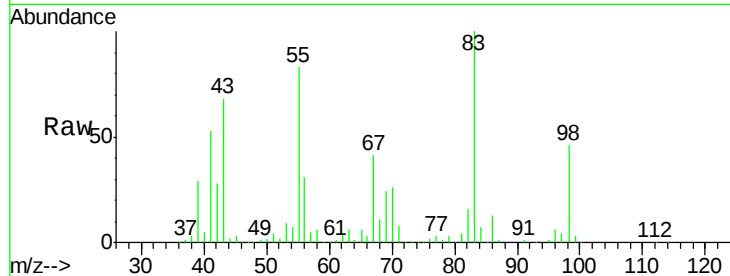




#39
Methvlcvclohexane
Concen: 101.489 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

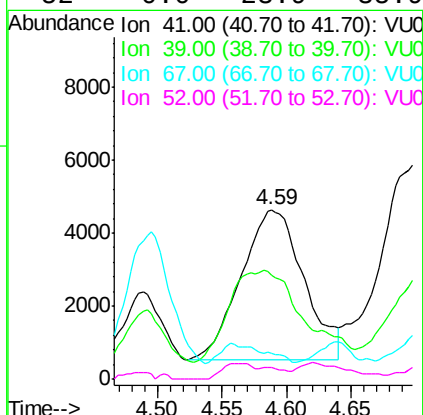
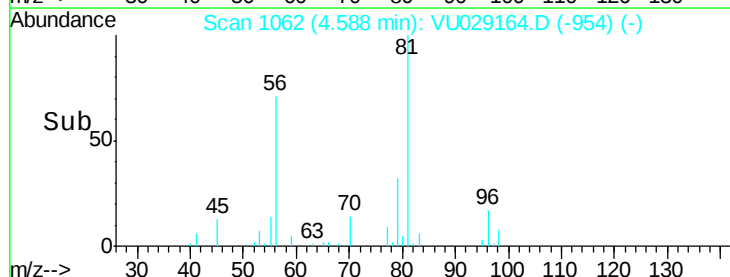
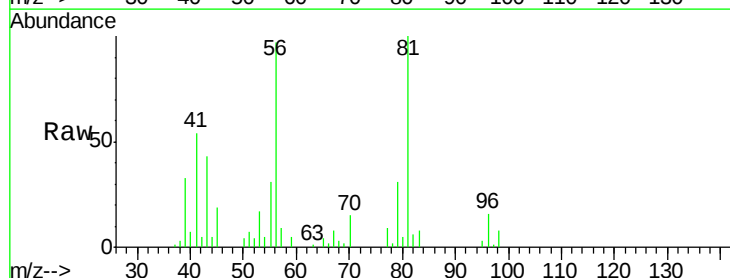
Instrument :
MSVOA_U
ClientSampleId :

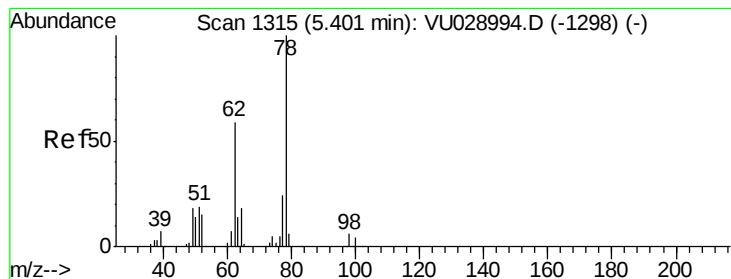
Tot Ion: 83 Resp: 271598
Ion Ratio Lower Upper
83 100
55 82.6 62.4 93.6
98 45.7 36.2 54.2



#41
Methacrylonitrile
Concen: 10.764 ug/l
RT: 4.59 min Scan# 1062
Delta R.T. 0.05 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion: 41 Resp: 13767
Ion Ratio Lower Upper
41 100
39 71.3 42.3 63.5#
67 0.0 64.4 96.6#
52 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 733.525 ug/l

RT: 5.45 min Scan# 1330

Delta R.T. 0.05 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

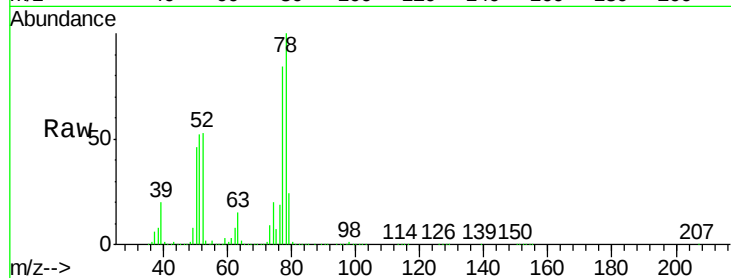
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 1496652

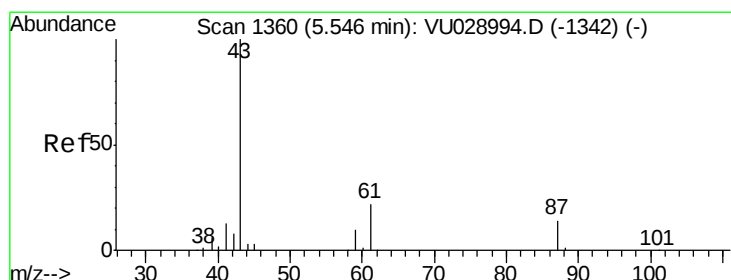
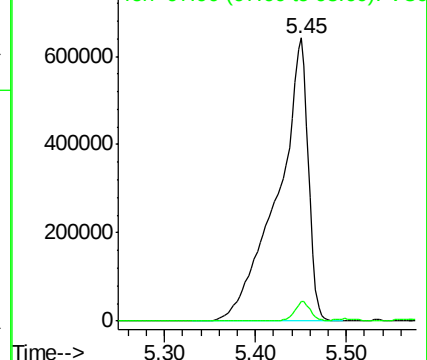
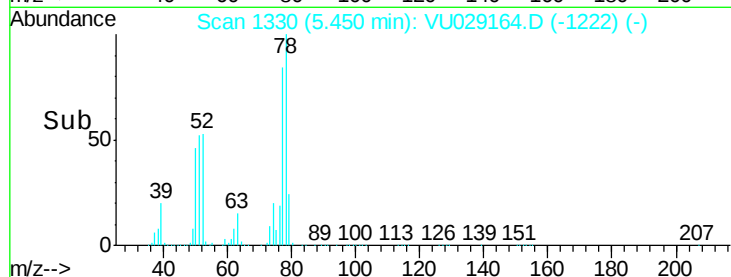
Ion Ratio Lower Upper

62 100

98 3.8 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VU029164.D (-1222) (-)



#43

Isopropyl Acetate

Concen: 27.136 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

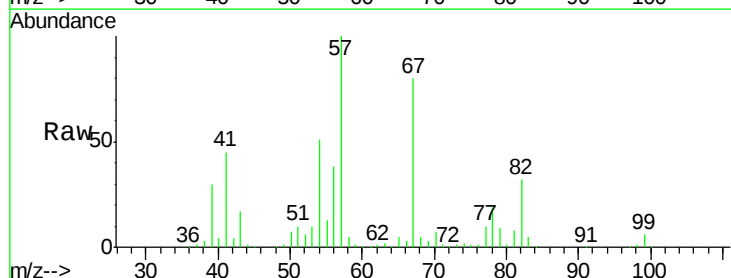
Tgt Ion: 43 Resp: 99464

Ion Ratio Lower Upper

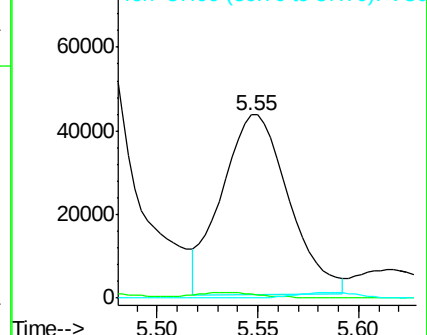
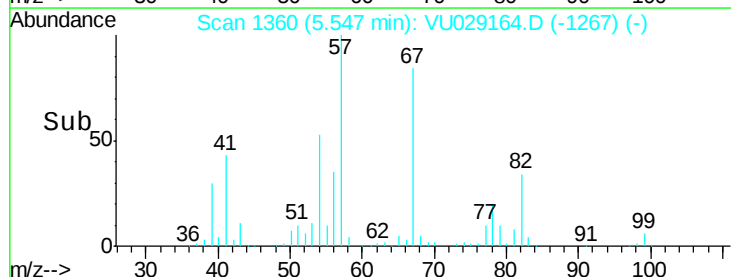
43 100

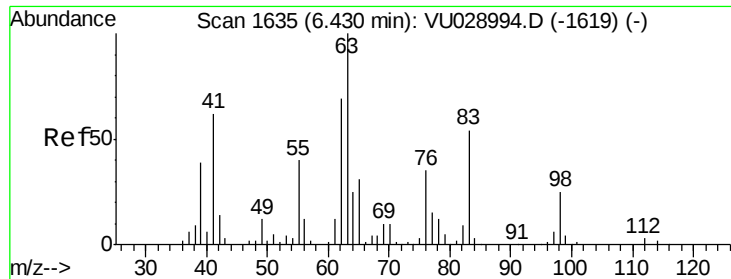
61 0.0 17.8 26.6#

87 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VU029164.D (-1267) (-)





#45

1,2-Dichloropropane

Concen: 27.010 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

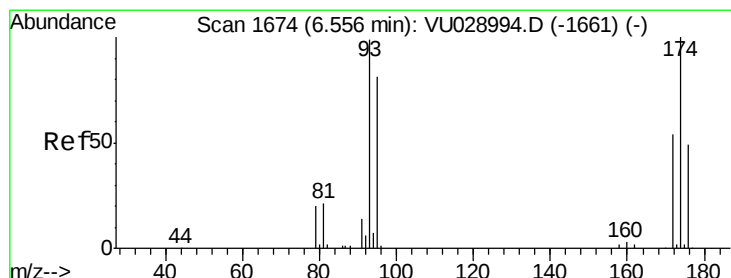
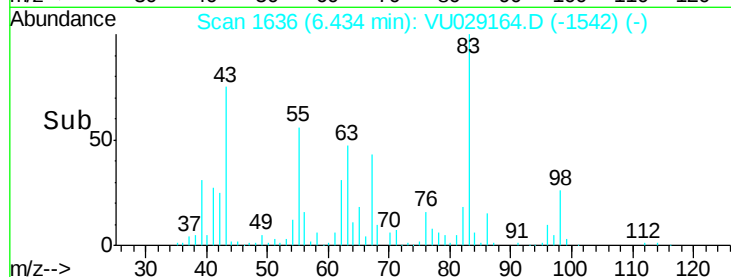
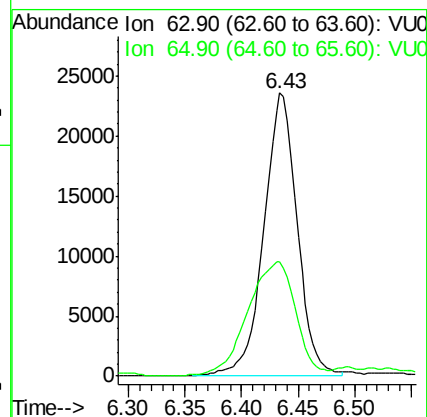
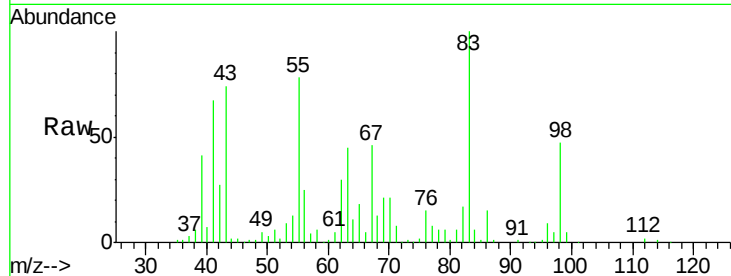
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 63 Resp: 48433

Ion Ratio Lower Upper

63 100

65 39.9 25.1 37.7#



#46

Dibromomethane

Concen: 0.896 ug/l

RT: 6.55 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

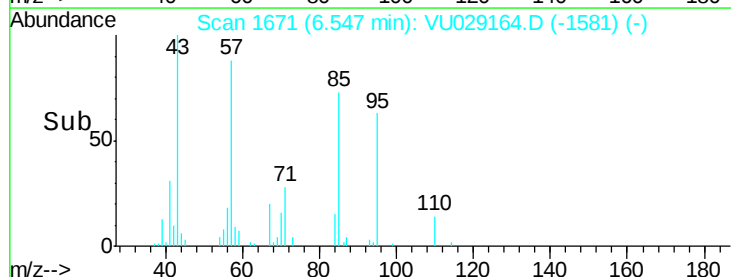
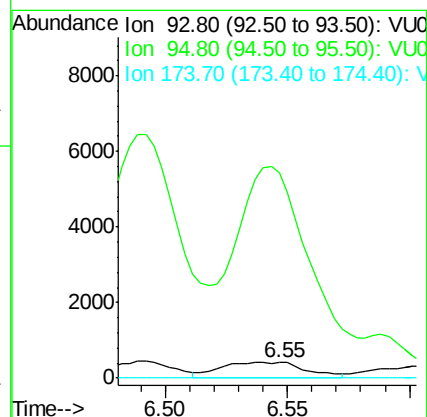
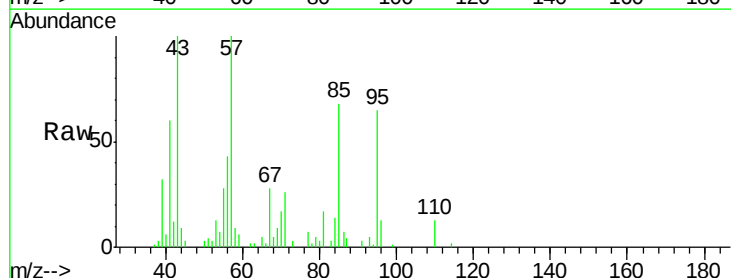
Tgt Ion: 93 Resp: 1027

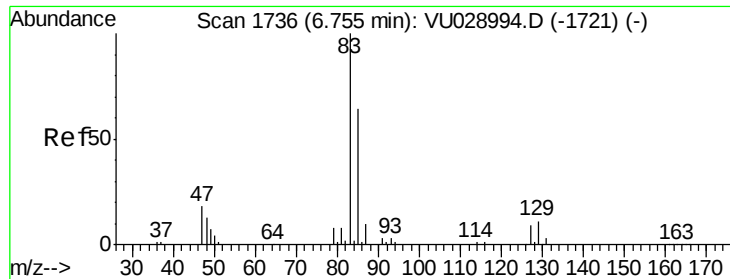
Ion Ratio Lower Upper

93 100

95 837.5 67.2 100.8#

174 0.0 82.6 123.8#





#47

Bromodichloromethane

Concen: 1.055 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. -0.05 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

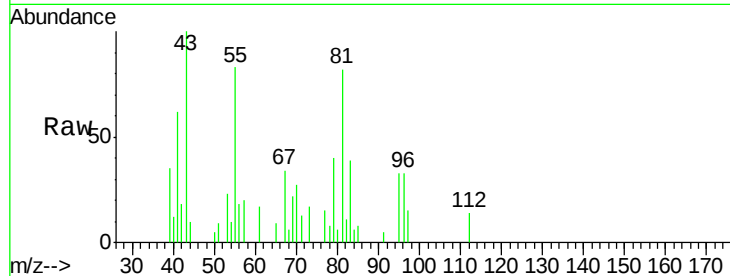
Tot Ion: 83 Resp: 2226

Ion Ratio Lower Upper

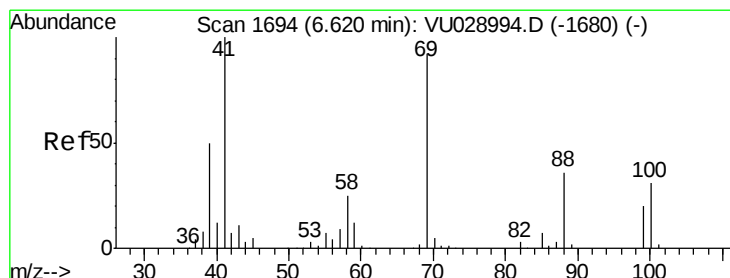
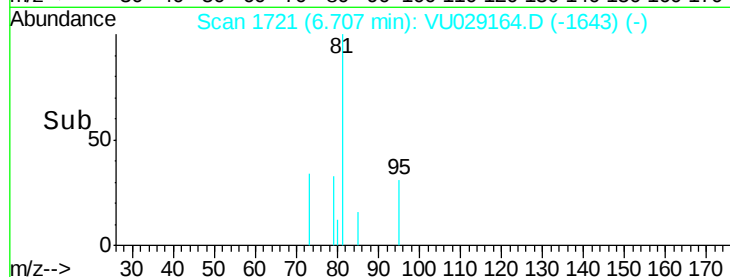
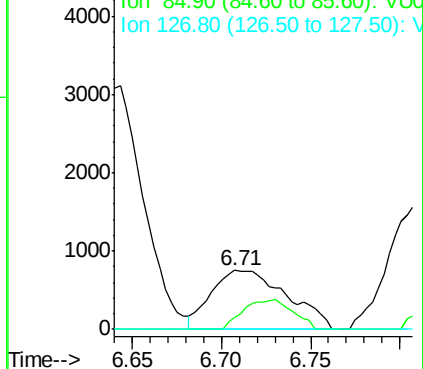
83 100

85 20.0 51.4 77.2#

127 0.0 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 16.246 ug/l

RT: 6.64 min Scan# 1700

Delta R.T. 0.02 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

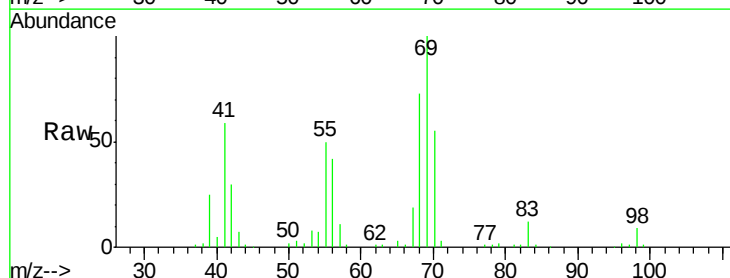
Tgt Ion: 41 Resp: 28996

Ion Ratio Lower Upper

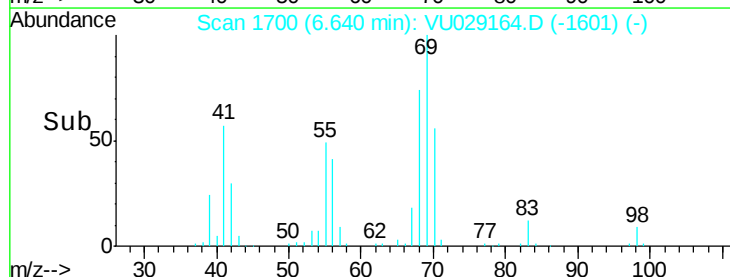
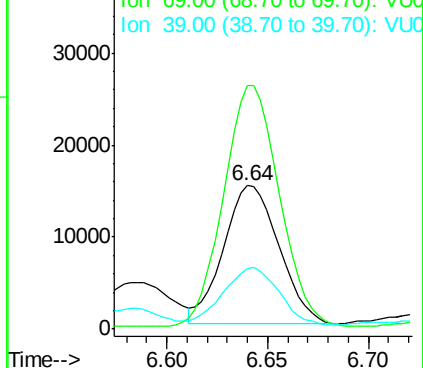
41 100

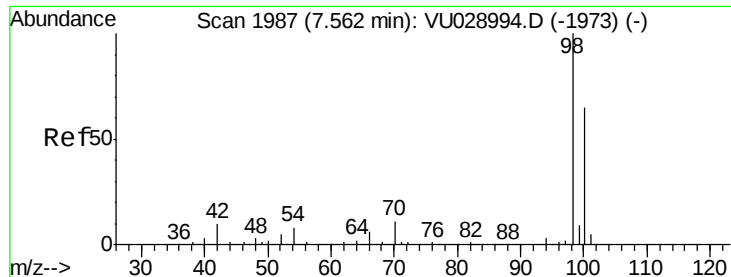
69 173.4 73.6 110.4#

39 42.1 39.6 59.4



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: 53.601 ug/l

RT: 7.59 min Scan# 1997

Delta R.T. 0.03 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

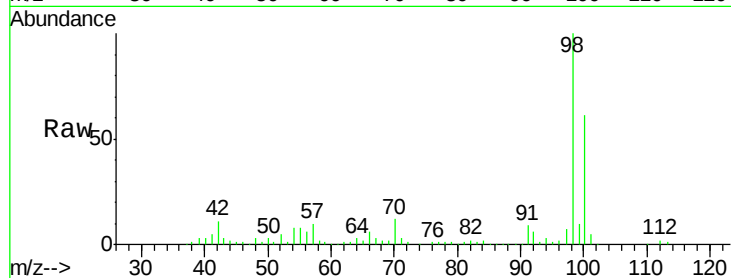
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 98 Resp: 298734

Ion Ratio Lower Upper

98 100

100 62.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

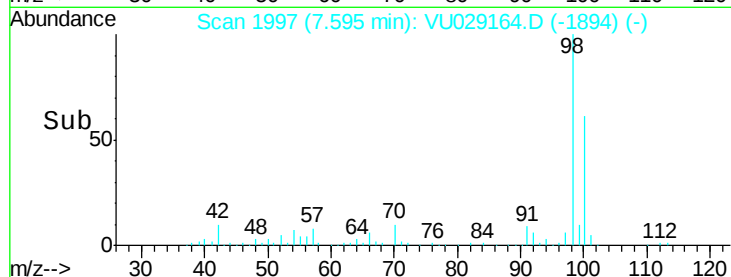
100000

50000

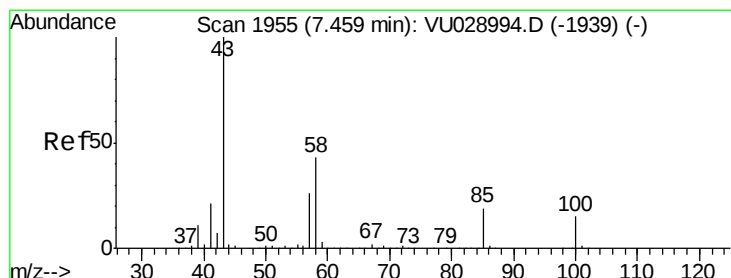
0

7.40 7.50 7.60 7.70 7.80

7.59



Time-->



#51

4-Methyl-2-Pentanone

Concen: 37.284 ug/l

RT: 7.37 min Scan# 1927

Delta R.T. -0.09 min

Lab File: VU029164.D

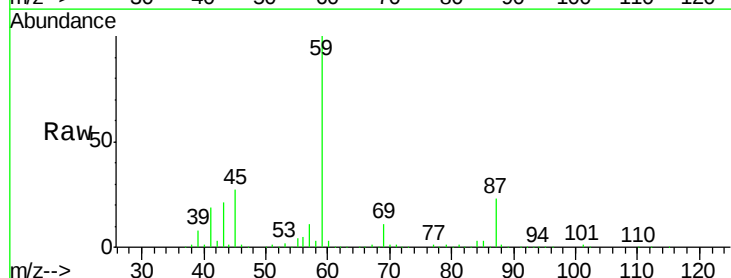
Acq: 14 Jan 2019 14:36

Tgt Ion: 43 Resp: 93003

Ion Ratio Lower Upper

43 100

58 14.5 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)

30000

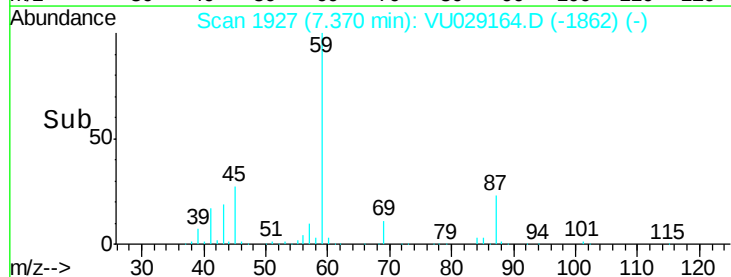
20000

10000

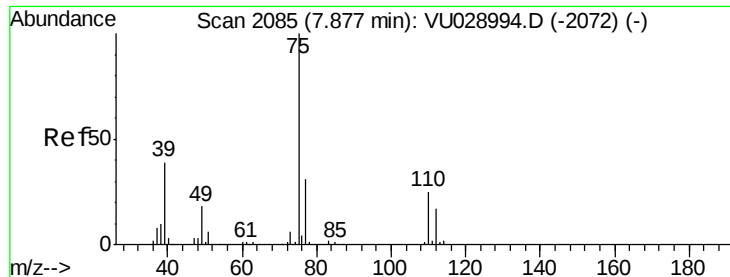
0

7.30 7.35 7.40 7.45

7.37



Time-->



#53

t-1,3-Dichloropropene

Concen: 751.153 ug/l

RT: 7.73 min Scan# 2038

Delta R.T. -0.15 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

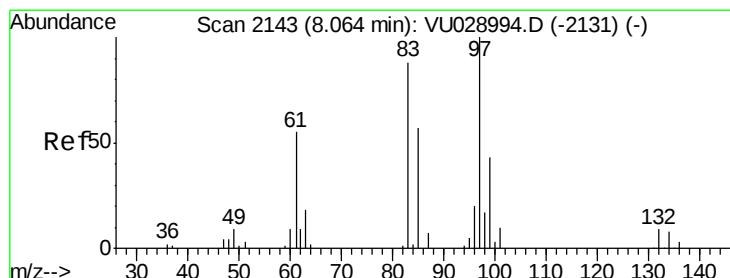
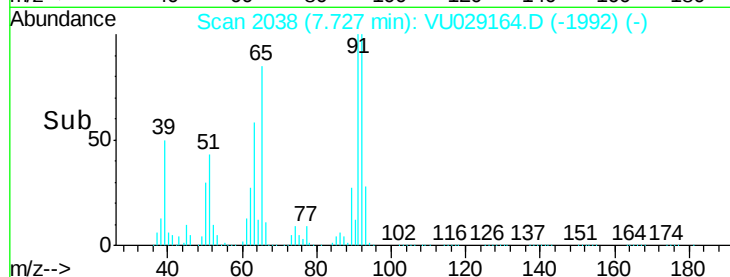
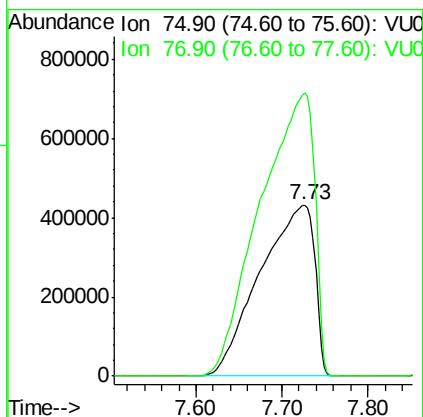
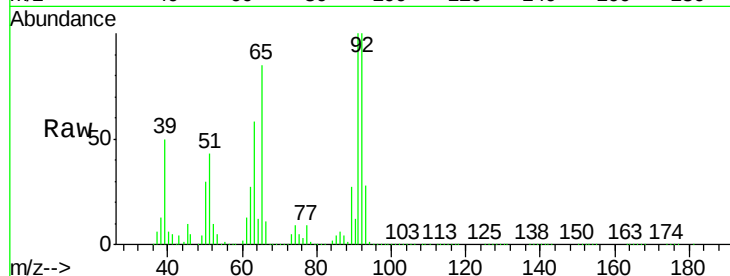
ClientSampleId :

Tot Ion: 75 Resp: 1904369

Ion Ratio Lower Upper

75 100

77 165.7 25.0 37.4#



#55

1,1,2-Trichloroethane

Concen: 16.468 ug/l

RT: 8.05 min Scan# 2140

Delta R.T. -0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Tgt Ion: 97 Resp: 27271

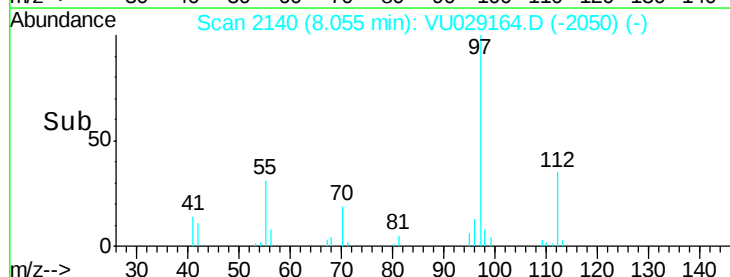
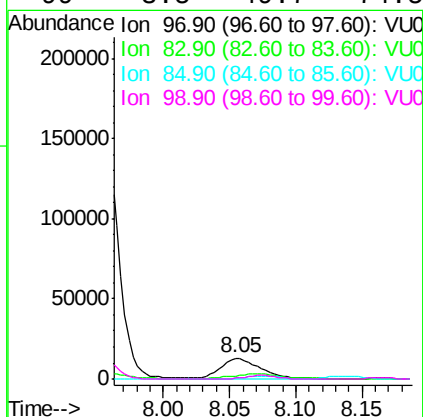
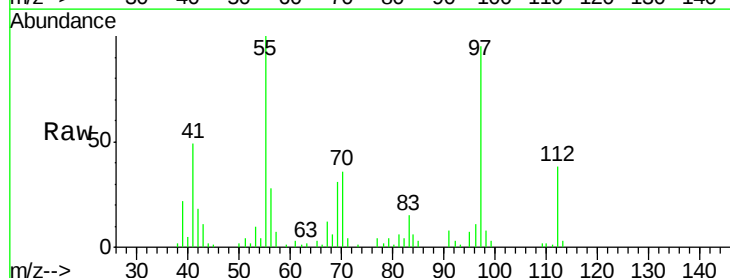
Ion Ratio Lower Upper

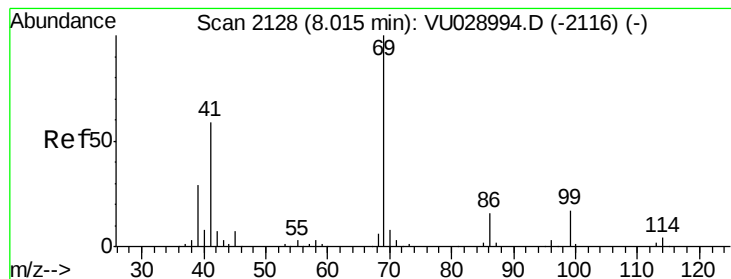
97 100

83 13.9 69.8 104.8#

85 2.1 47.3 70.9#

99 3.5 49.7 74.5#





#56

Ethyl methacrylate

Concen: 2.333 ug/l

RT: 8.05 min Scan# 2140

Delta R.T. 0.04 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleID :

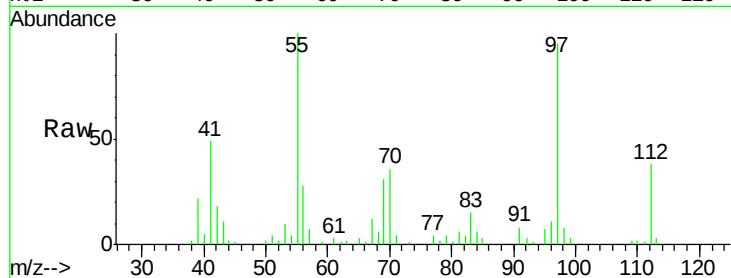
Tot Ion: 69 Resp: 5951

Ion Ratio Lower Upper

69 100

41 0.0 47.5 71.3#

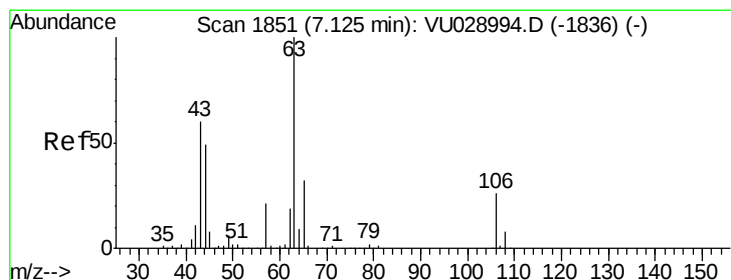
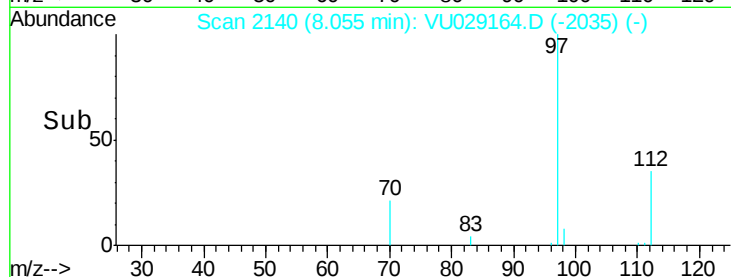
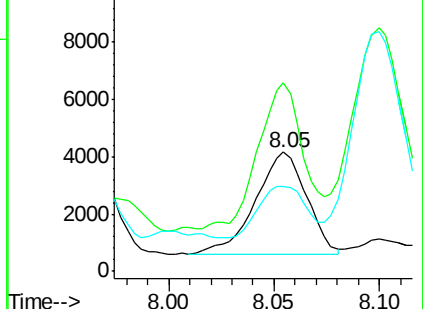
39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU028994.D (-2116) (-)

Ion 41.00 (40.70 to 41.70): VU028994.D (-2116) (-)

Ion 39.00 (38.70 to 39.70): VU028994.D (-2116) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 275.038 ug/l

RT: 7.10 min Scan# 1843

Delta R.T. -0.03 min

Lab File: VU029164.D

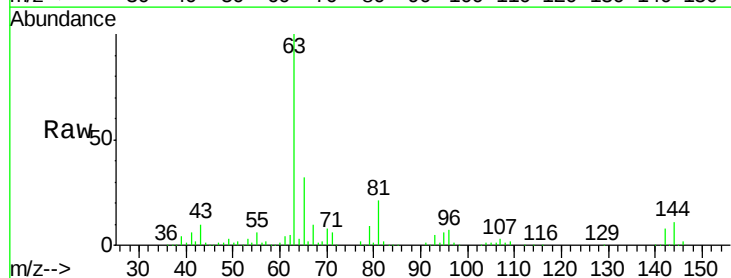
Acq: 14 Jan 2019 14:36

Tgt Ion: 63 Resp: 308588

Ion Ratio Lower Upper

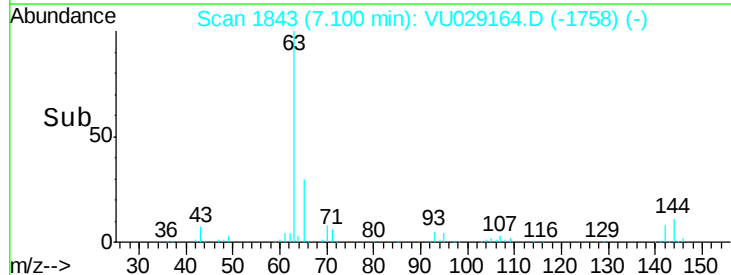
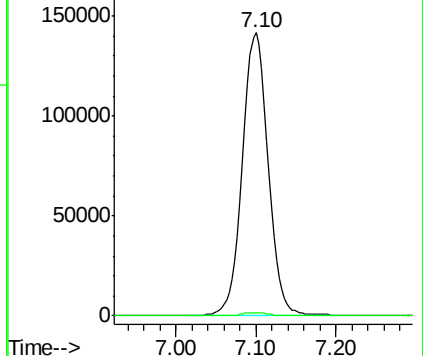
63 100

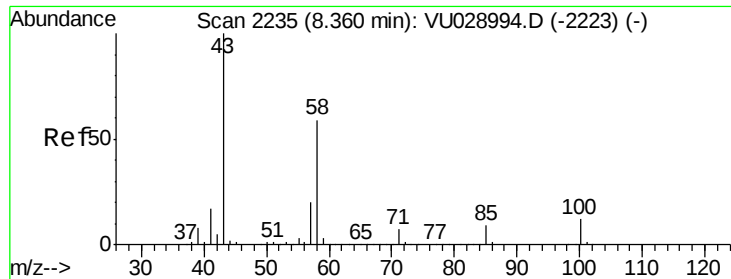
106 1.2 20.6 31.0#



Abundance Ion 62.90 (62.60 to 63.60): VU028994.D (-1836) (-)

Ion 105.90 (105.60 to 106.60): VU028994.D (-1836) (-)

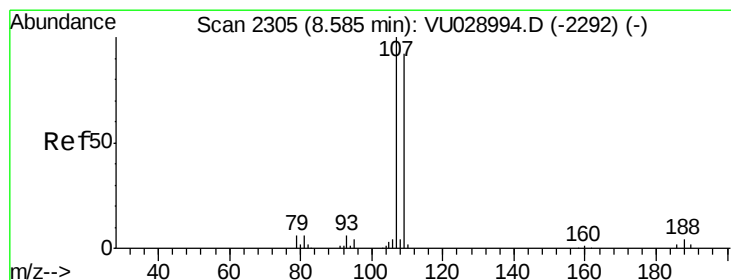
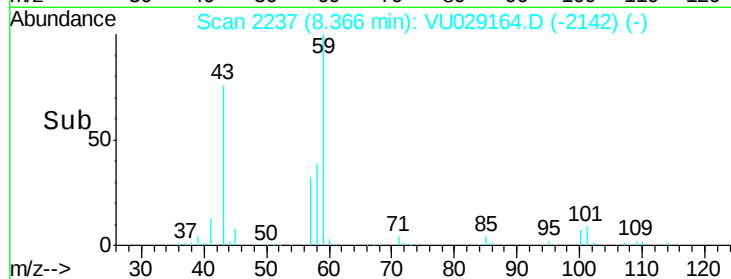
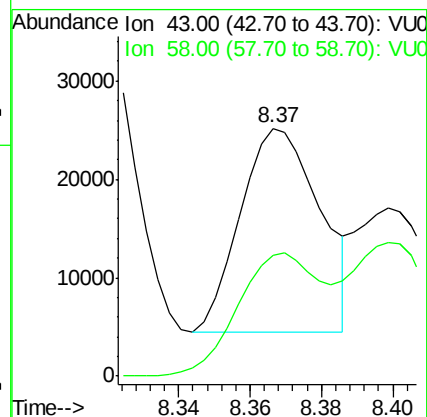
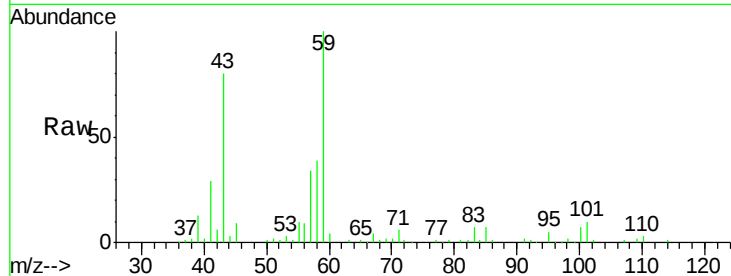




#59
2-Hexanone
Concen: 16.359 ug/l
RT: 8.37 min Scan# 2237
Delta R.T. 0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

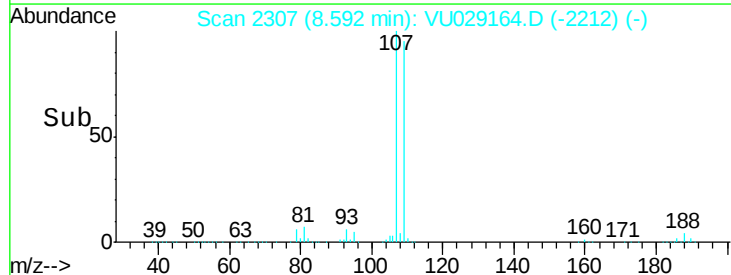
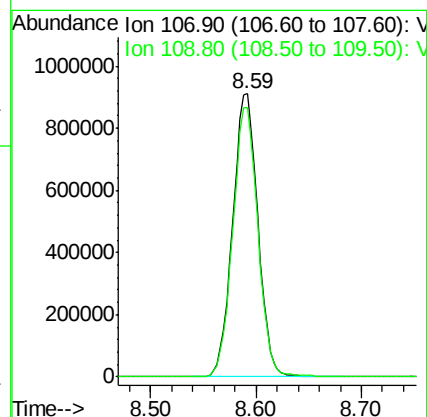
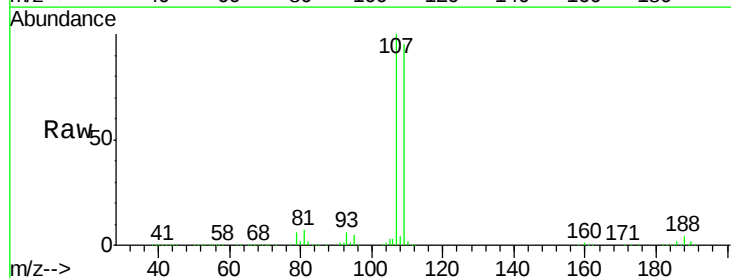
Instrument :
MSVOA_U
ClientSampleId :

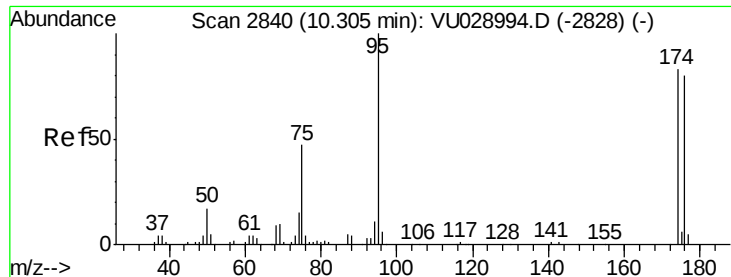
Tot Ion: 43.00 Resp: 32033
Ion Ratio Lower Upper
43 100
58 63.3 29.8 89.4



#61
1,2-Dibromoethane
Concen: 837.385 ug/l
RT: 8.59 min Scan# 2307
Delta R.T. 0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion: 107 Resp: 1503953
Ion Ratio Lower Upper
107 100
109 95.4 75.5 113.3





#62

4-Bromofluorobenzene

Concen: 51.970 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

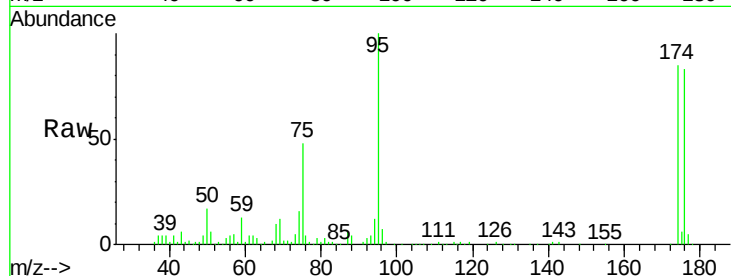
Tot Ion: 95 Resp: 104092

Ion Ratio Lower Upper

95 100

174 83.1 0.0 170.6

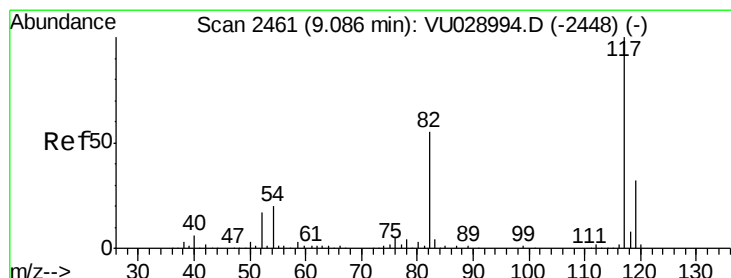
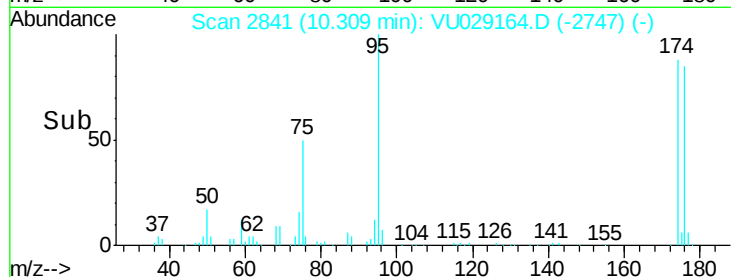
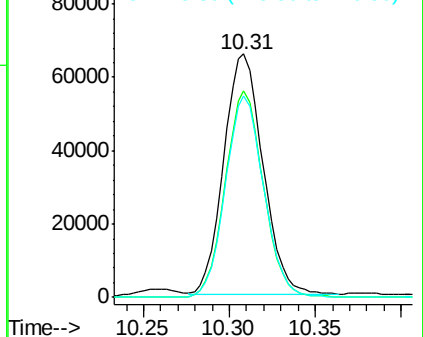
176 81.8 0.0 165.0



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. 0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

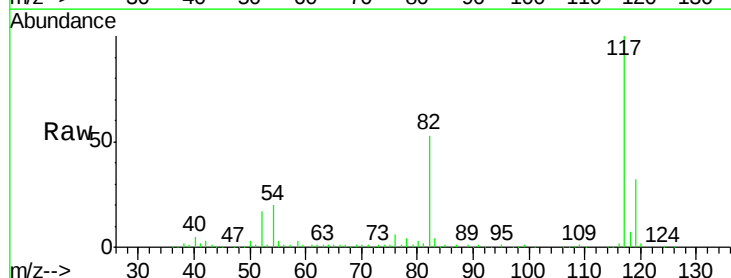
Tgt Ion: 117 Resp: 218685

Ion Ratio Lower Upper

117 100

82 53.3 43.9 65.9

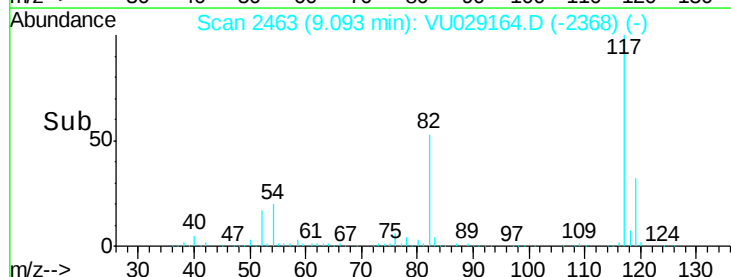
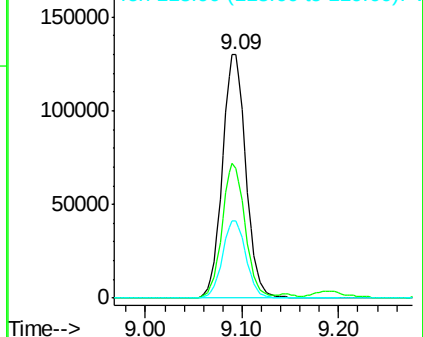
119 31.7 26.0 39.0

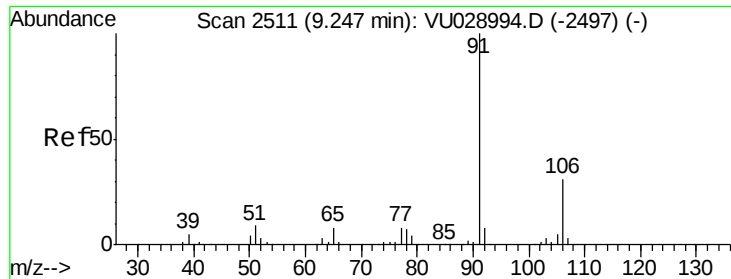


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

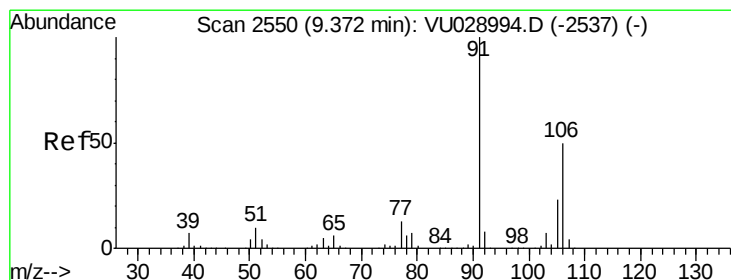
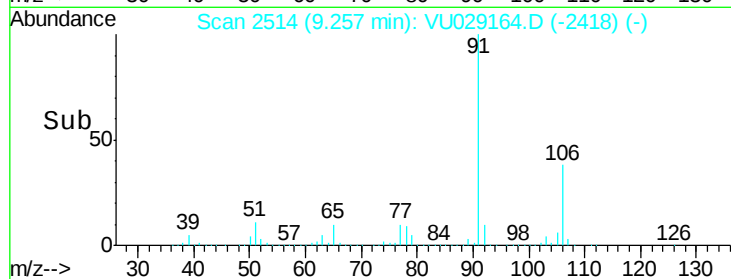
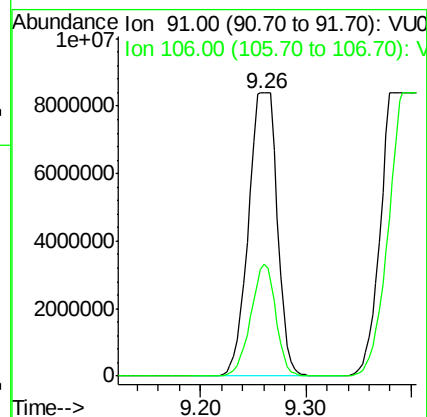
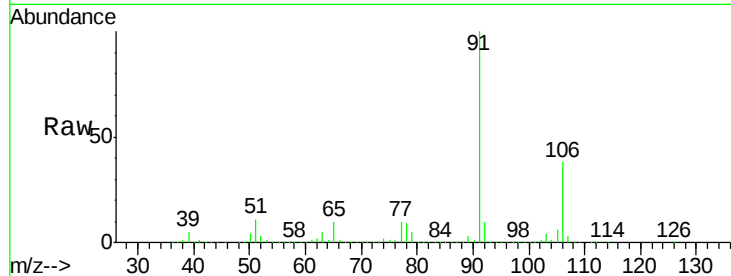




#67
Ethvl Benzene
Concen: 1955.903 ug/l
RT: 9.26 min Scan# 2514
Delta R.T. 0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

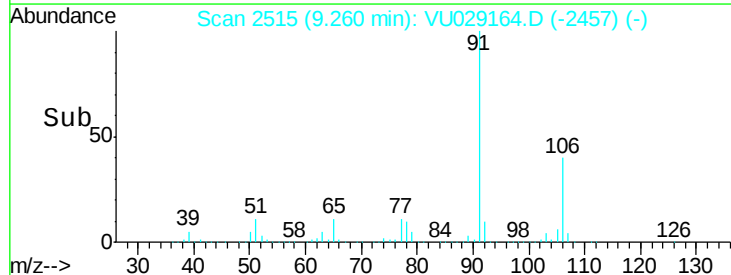
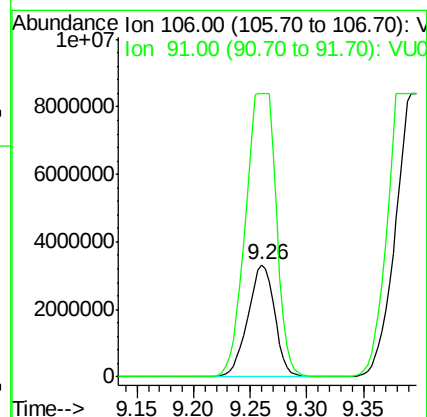
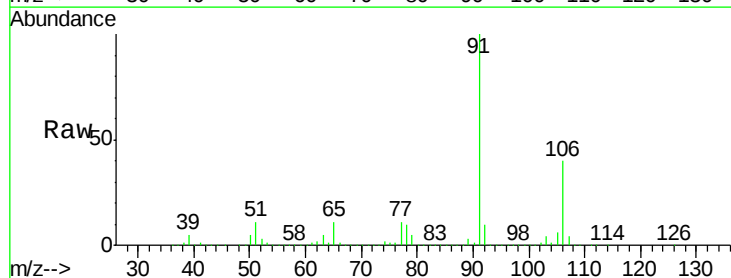
Instrument :
MSVOA_U
ClientSampled :

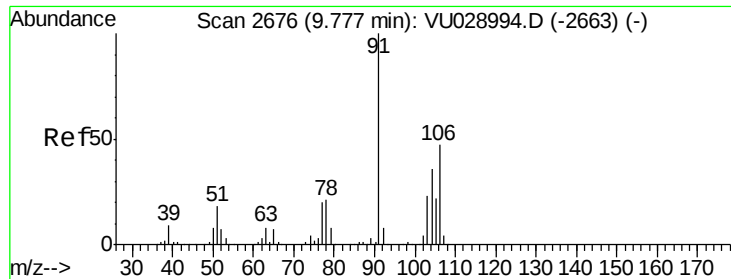
Tot Ion: 91 Resp:16007124
Ion Ratio Lower Upper
91 100
106 37.7 25.0 37.4#



#68
m/p-Xylenes
Concen: 1724.320 ug/l
RT: 9.26 min Scan# 2515
Delta R.T. -0.11 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion:106 Resp: 5483134
Ion Ratio Lower Upper
106 100
91 291.9 161.7 242.5#

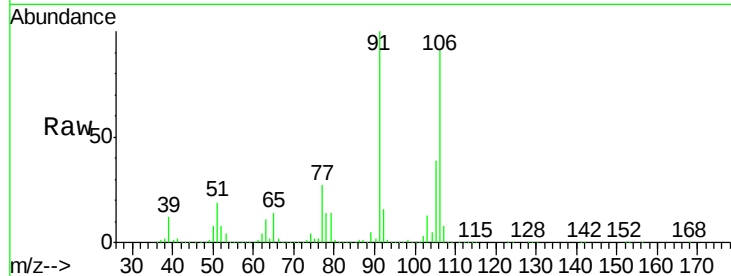




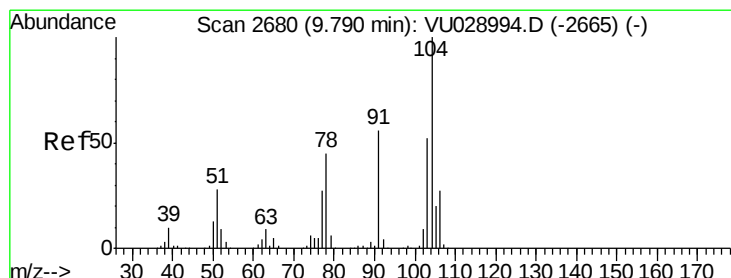
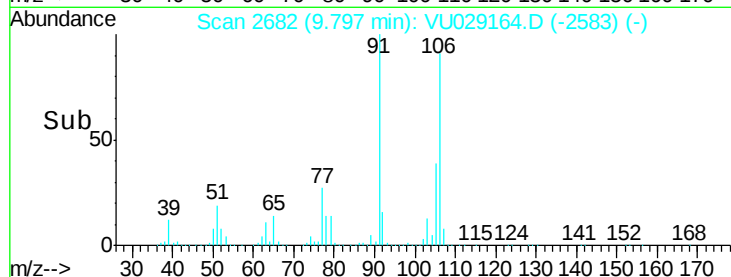
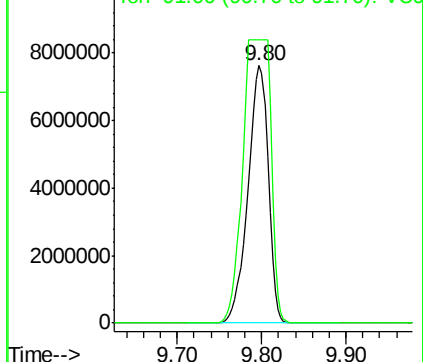
#69
o-Xylene
Concen: 4157.994 ug/l
RT: 9.80 min Scan# 2682
Delta R.T. 0.02 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp:12739832
Ion Ratio Lower Upper
106 100
91 0.0 106.1 318.3#

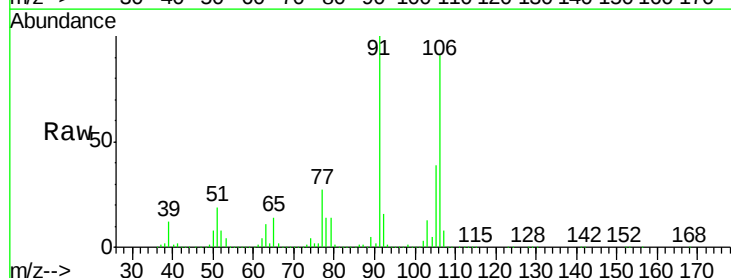


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

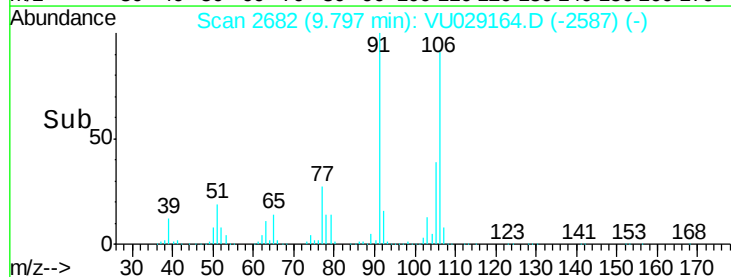
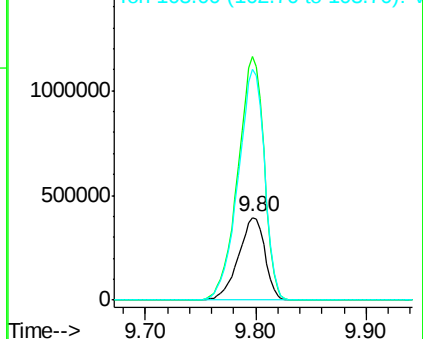


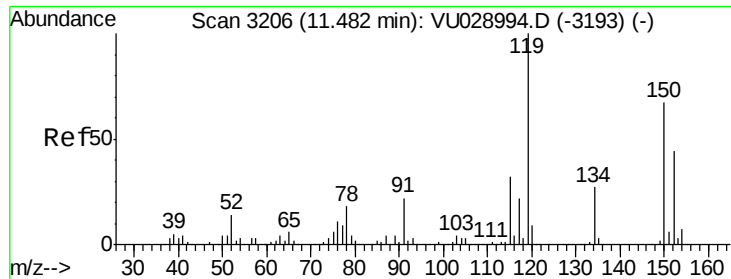
#70
Styrene
Concen: 130.046 ug/l
RT: 9.80 min Scan# 2682
Delta R.T. 0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion:104 Resp: 653197
Ion Ratio Lower Upper
104 100
78 292.1 38.6 58.0#
103 279.2 44.5 66.7#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampled :

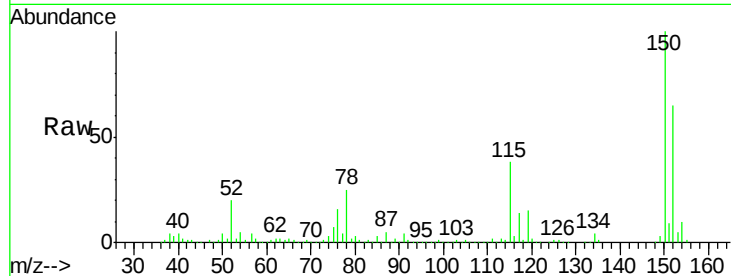
Tot Ion:152 Resp: 109994

Ion Ratio Lower Upper

152 100

115 58.4 40.1 120.3

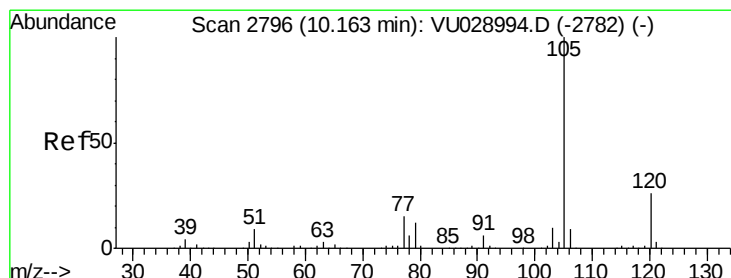
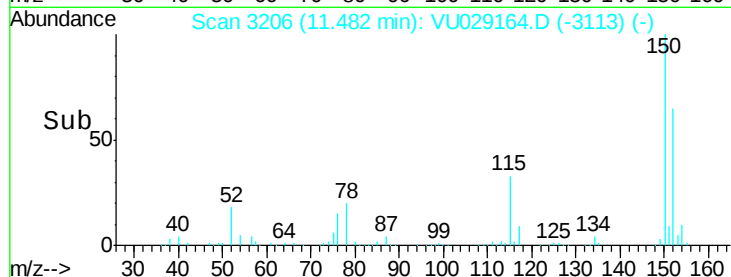
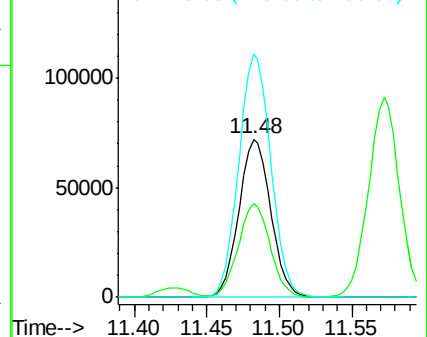
150 155.5 0.0 345.2



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



#73

Isopropylbenzene

Concen: 72.030 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU029164.D

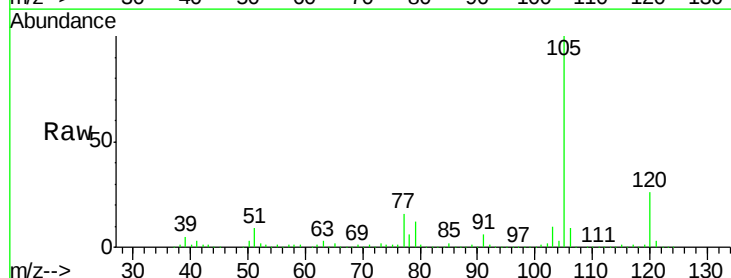
Acq: 14 Jan 2019 14:36

Tgt Ion:105 Resp: 586428

Ion Ratio Lower Upper

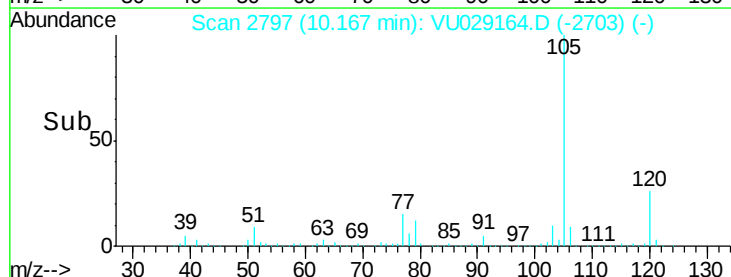
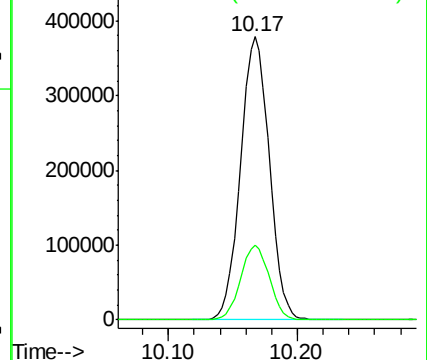
105 100

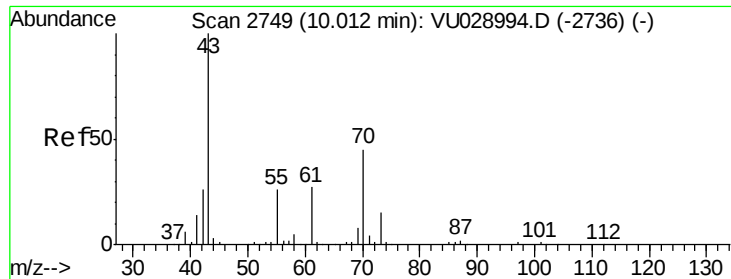
120 26.3 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.868 ug/l

RT: 10.01 min Scan# 2748

Delta R.T. -0.00 min

Lab File: VU029164.D

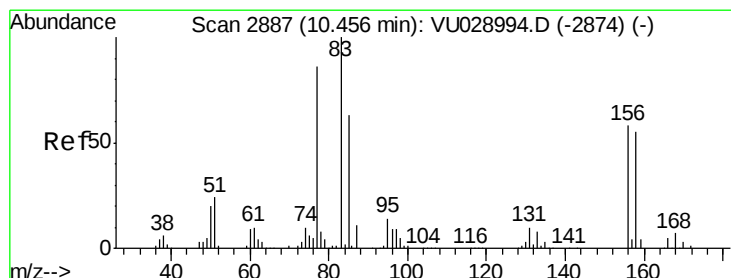
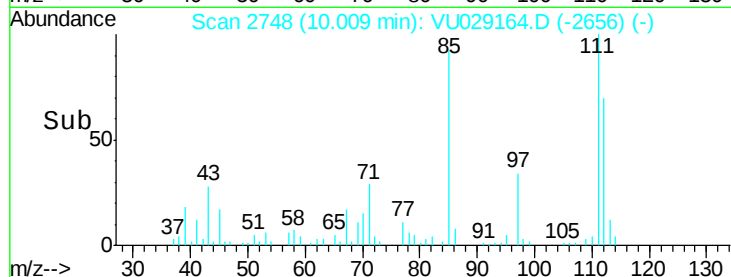
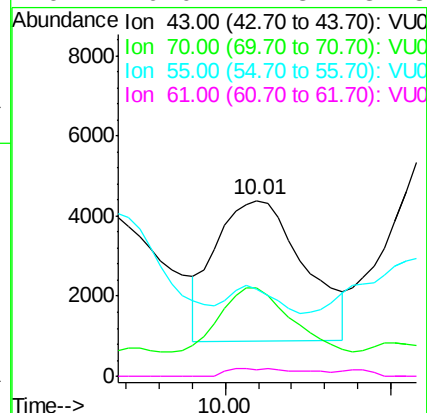
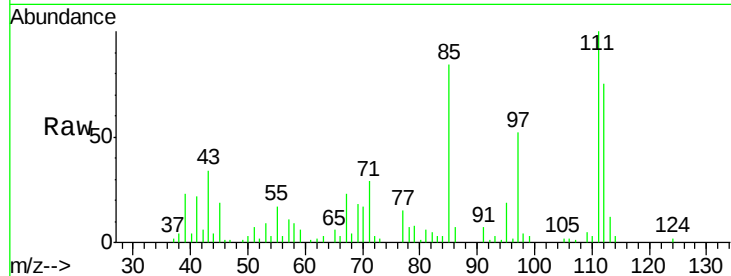
Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampled :

Tot Ion:	43	Resp:	6553
Ion	Ratio	Lower	Upper
43	100		
70	38.7	36.3	54.5
55	0.0	20.5	30.7#
61	0.0	21.8	32.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 6.390 ug/l

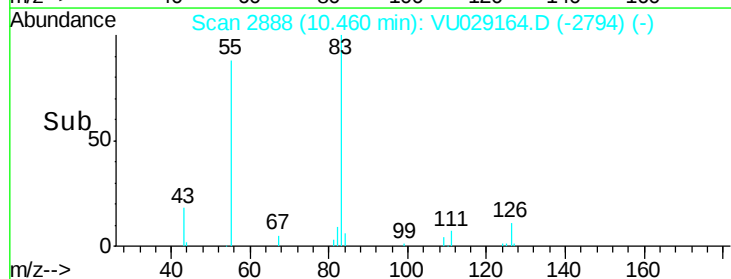
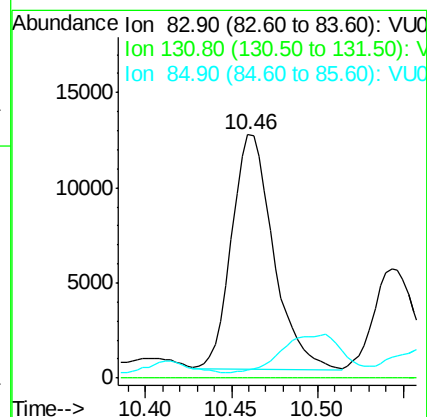
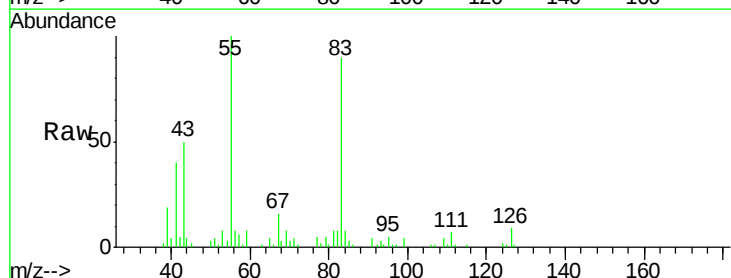
RT: 10.46 min Scan# 2888

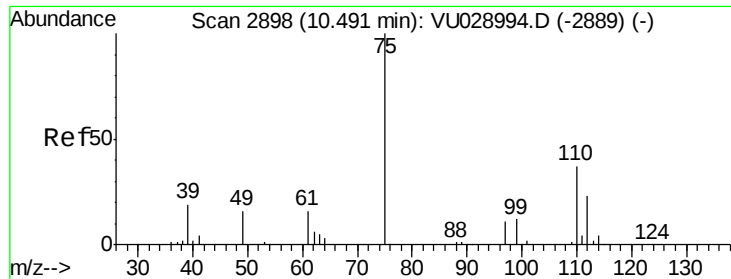
Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Tgt Ion:	83	Resp:	20851
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	0.0	32.0	96.2#





#76

1,2,3-Trichloropropane

Concen: 4.238 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.10 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

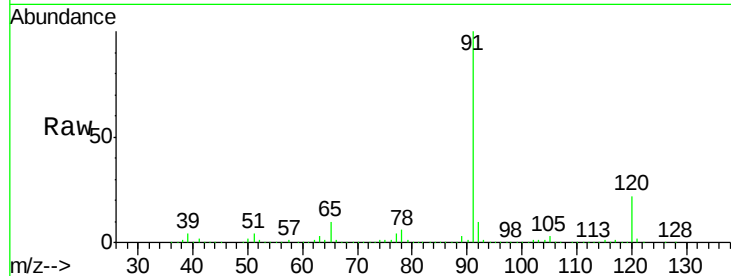
ClientSampled :

Tot Ion: 75 Resp: 11421

Ion Ratio Lower Upper

75 100

77 665.6 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

500000

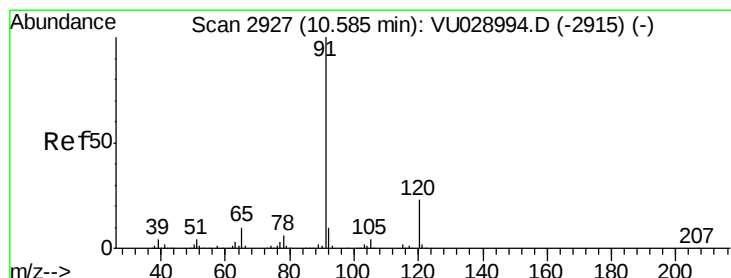
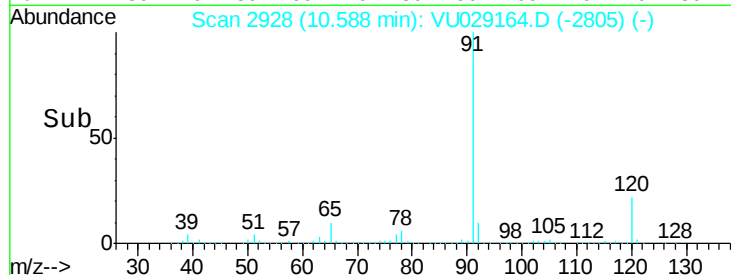
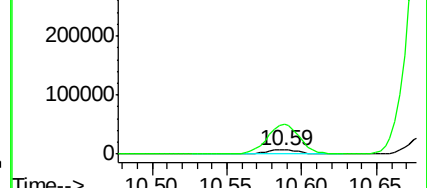
400000

300000

200000

100000

0



#78

n-propylbenzene

Concen: 208.938 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU029164.D

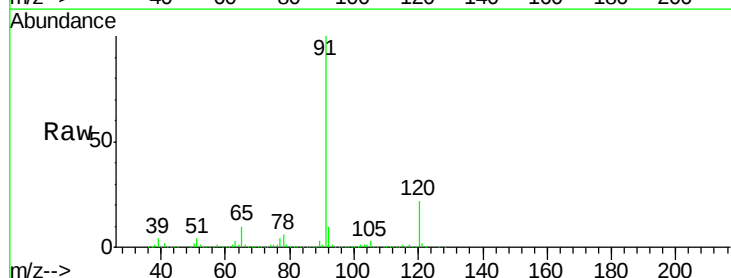
Acq: 14 Jan 2019 14:36

Tgt Ion: 91 Resp: 2004675

Ion Ratio Lower Upper

91 100

120 22.4 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

2000000

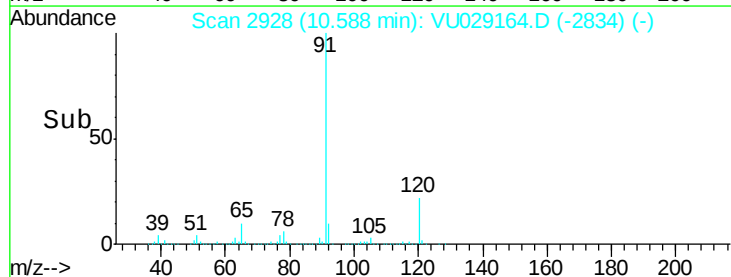
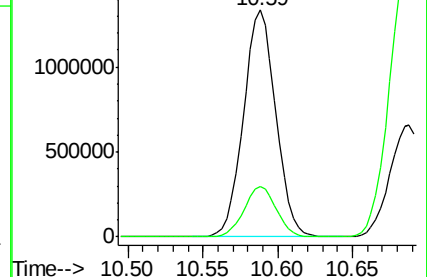
Ion 120.00 (119.70 to 120.70): V

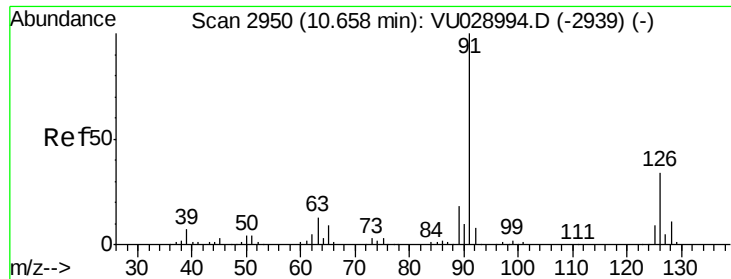
1500000

1000000

500000

0





#79

2-Chlorotoluene

Concen: 231.942 ug/l

RT: 10.69 min Scan# 2959

Delta R.T. 0.03 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

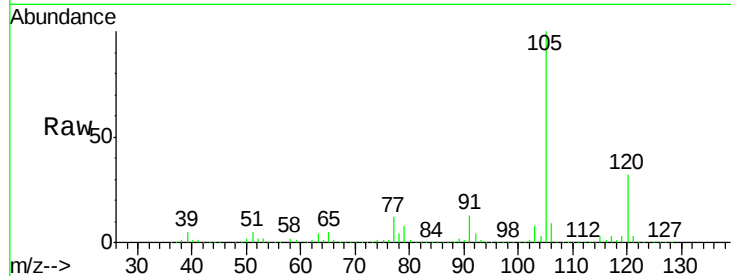
ClientSampleId :

Tot Ion: 91 Resp: 1349952

Ion Ratio Lower Upper

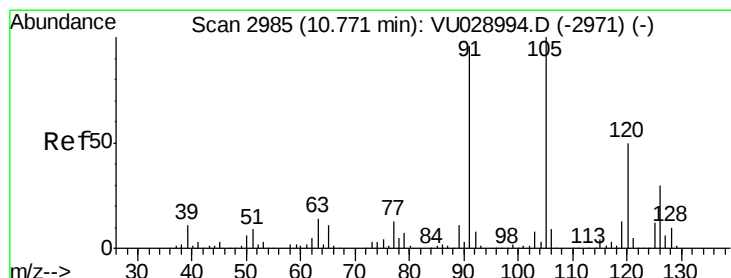
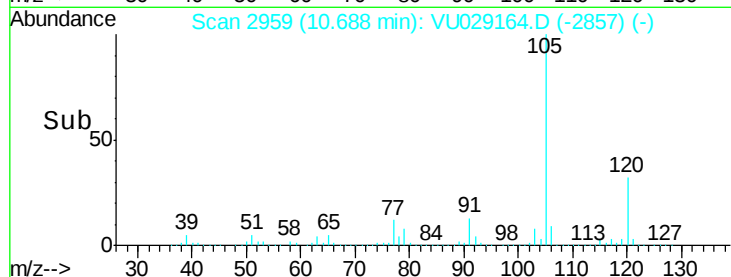
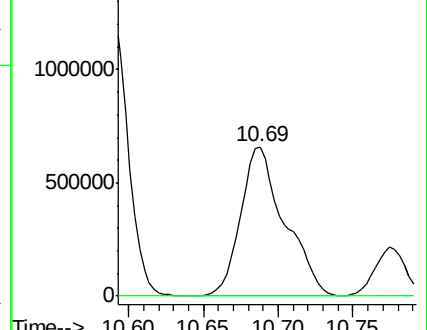
91 100

126 0.2 16.8 50.4#



Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2939) (-)

Ion 125.90 (125.60 to 126.60): VU028994.D (-2939) (-)



#80

1,3,5-Trimethylbenzene

Concen: 451.806 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029164.D

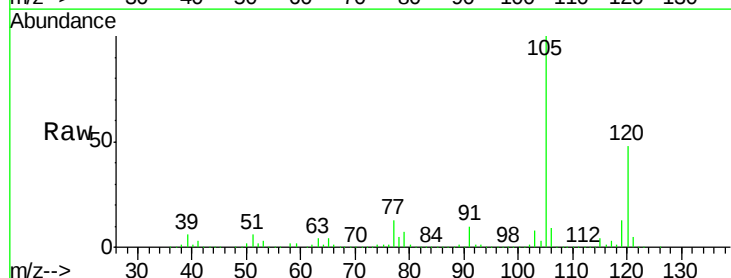
Acq: 14 Jan 2019 14:36

Tgt Ion:105 Resp: 3071730

Ion Ratio Lower Upper

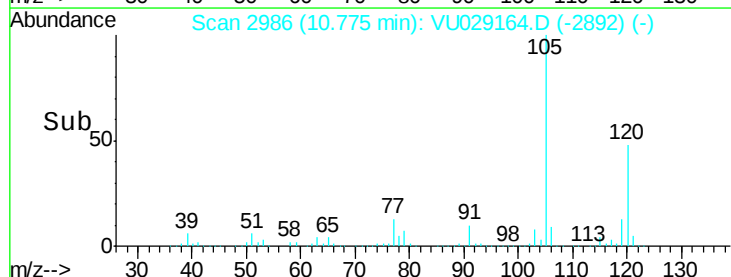
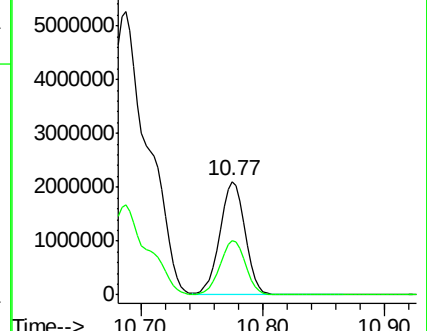
105 100

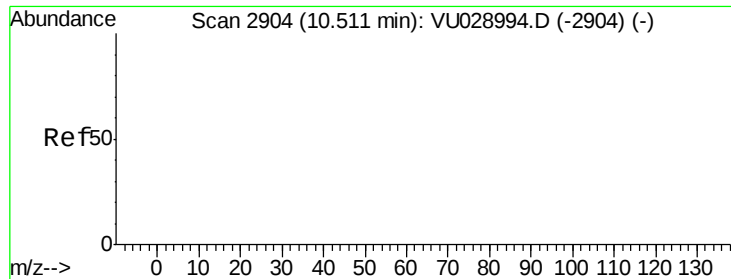
120 48.4 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028994.D (-2971) (-)

Ion 120.00 (119.70 to 120.70): VU028994.D (-2971) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 10.930 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.08 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampled :

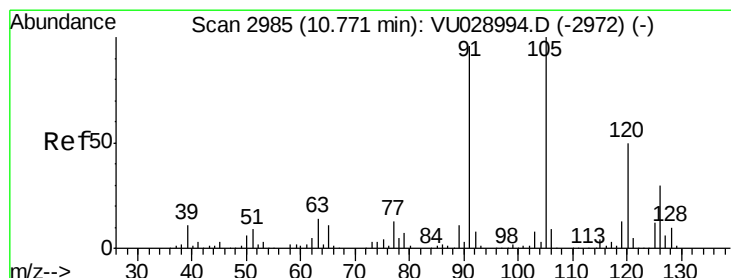
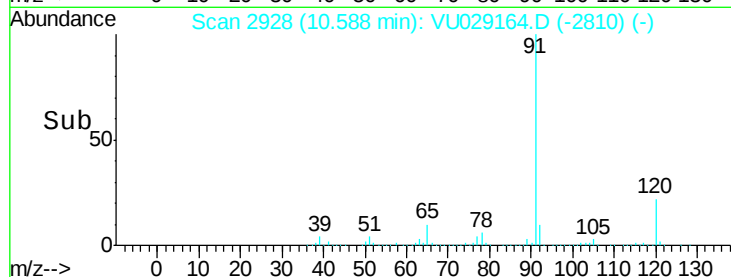
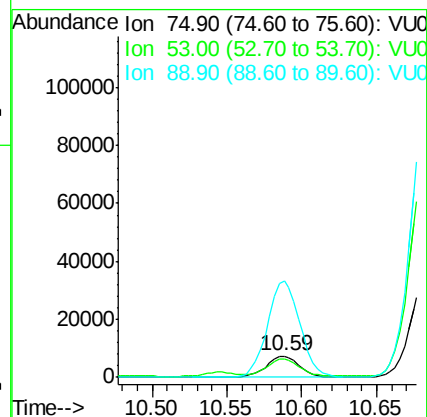
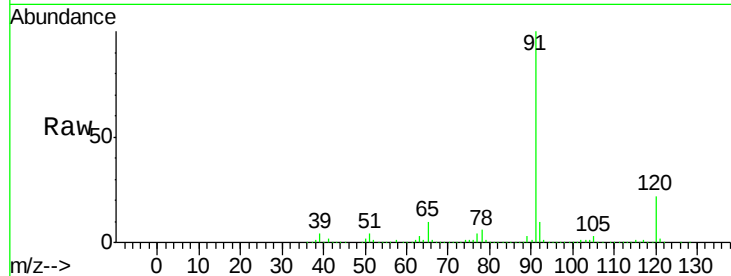
Tot Ion: 75 Resp: 11421

Ion Ratio Lower Upper

75 100

53 79.5 0.0 0.0#

89 438.6 0.0 0.0#



#82

4-Chlorotoluene

Concen: 46.550 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029164.D

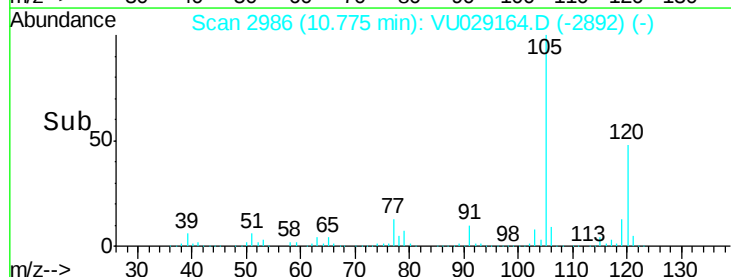
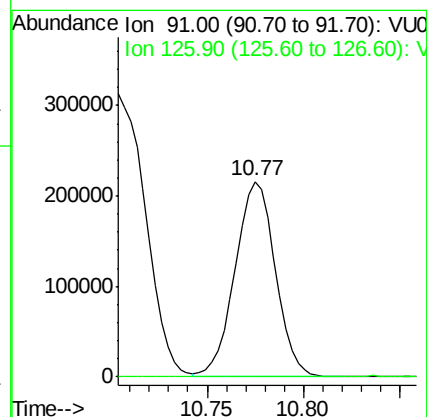
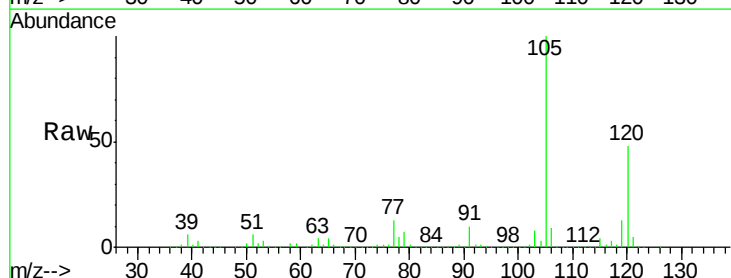
Acq: 14 Jan 2019 14:36

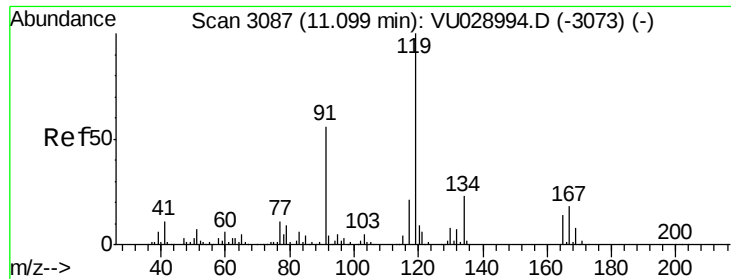
Tgt Ion: 91 Resp: 310665

Ion Ratio Lower Upper

91 100

126 0.1 15.5 46.5#

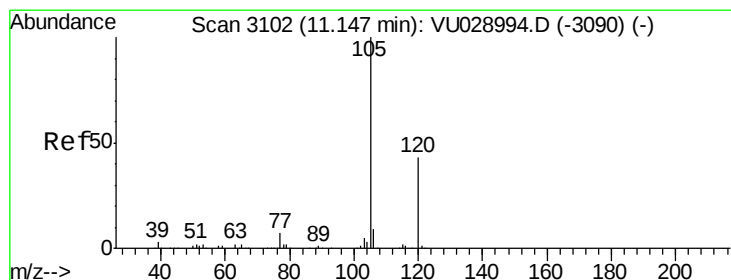
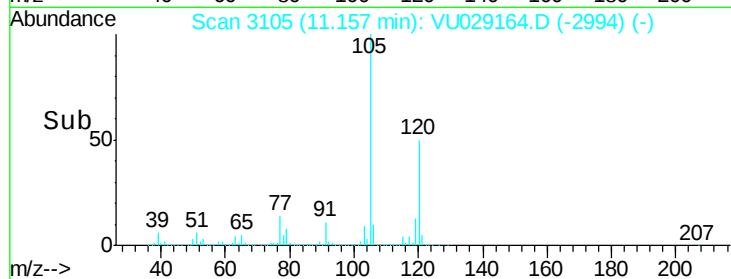
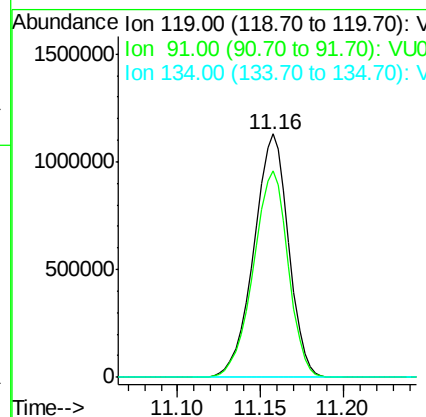
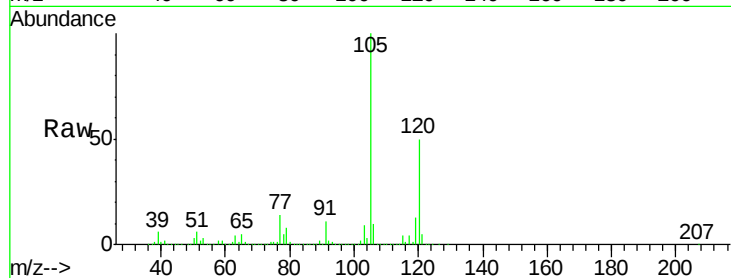




#83
 tert-Butylbenzene
 Concen: 244.406 ug/l
 RT: 11.16 min Scan# 3105
 Delta R.T. 0.06 min
 Lab File: VU029164.D
 Acq: 14 Jan 2019 14:36

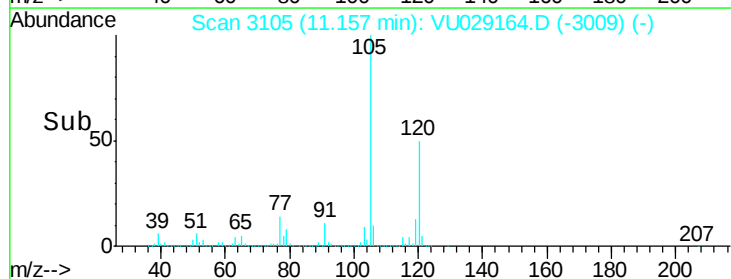
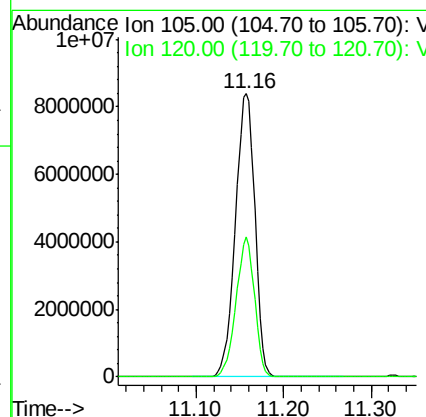
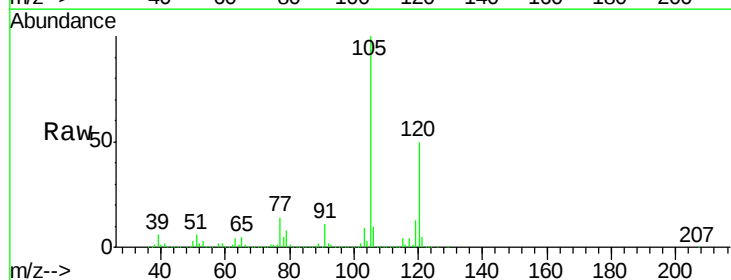
Instrument :
 MSVOA_U
 ClientSampled :

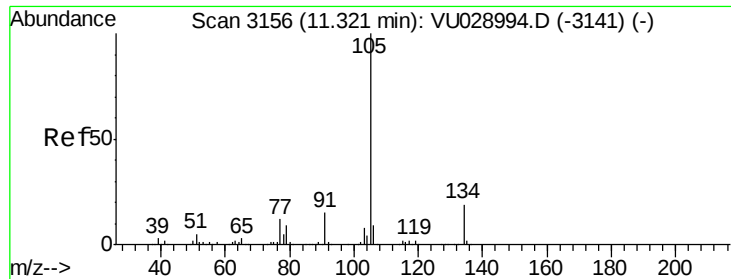
Tot Ion:119 Resp: 1637779
 Ion Ratio Lower Upper
 119 100
 91 84.9 28.2 84.6#
 134 0.0 11.3 33.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 1908.780 ug/l
 RT: 11.16 min Scan# 3105
 Delta R.T. 0.01 min
 Lab File: VU029164.D
 Acq: 14 Jan 2019 14:36

Tgt Ion:105 Resp:12956573
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.1 69.3





#85

sec-Butylbenzene

Concen: 1598.738 ug/l

RT: 11.16 min Scan# 3105

Delta R.T. -0.16 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

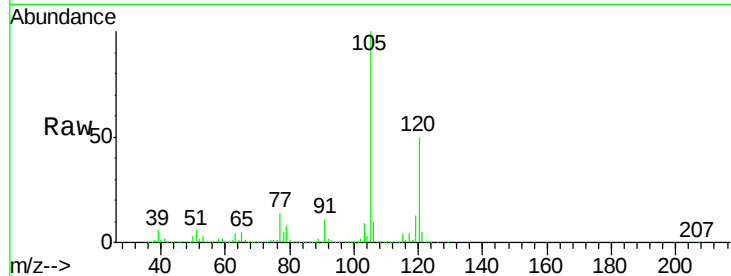
ClientSampled :

Tot Ion:105 Resp:12956573

Ion Ratio Lower Upper

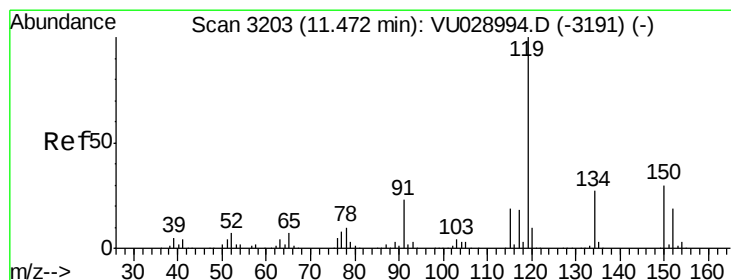
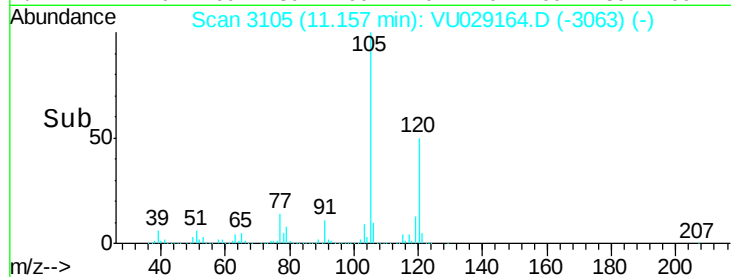
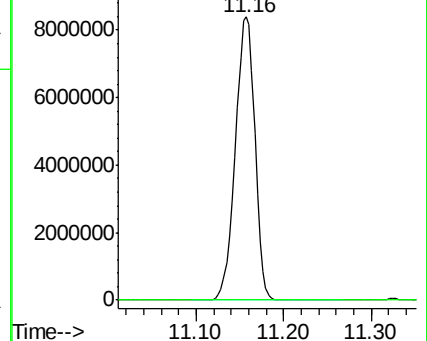
105 100

134 0.0 9.7 29.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 14.438 ug/l

RT: 11.43 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

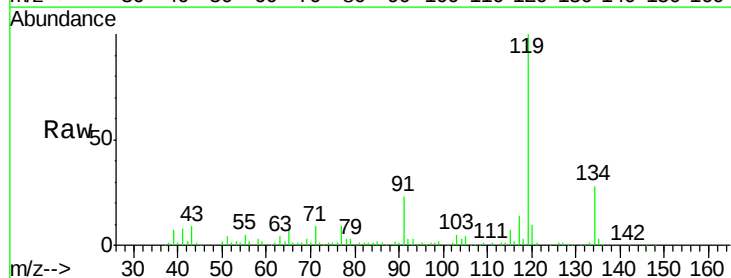
Tgt Ion:119 Resp: 99708

Ion Ratio Lower Upper

119 100

134 28.3 13.5 40.4

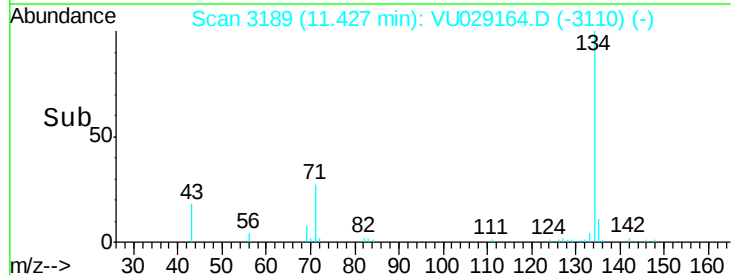
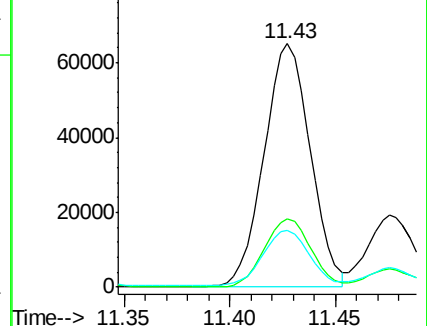
91 22.9 11.3 33.8

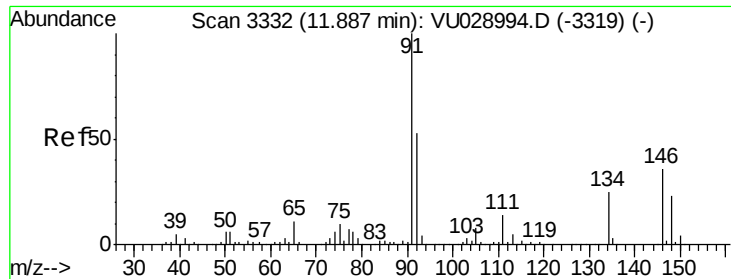


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

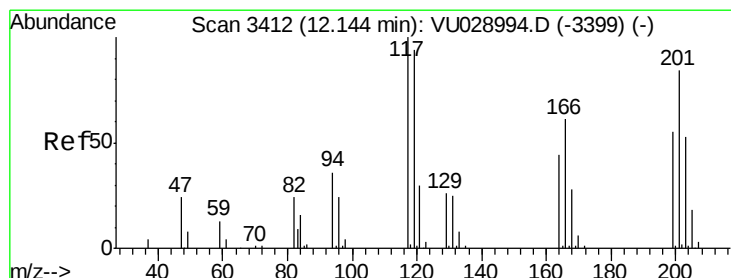
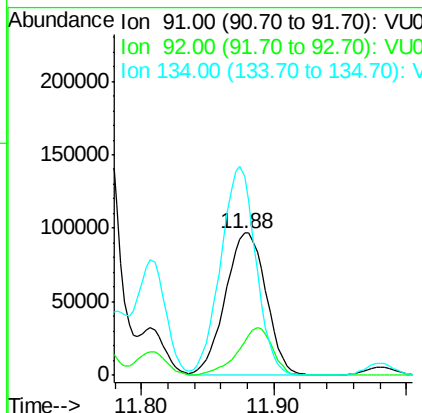
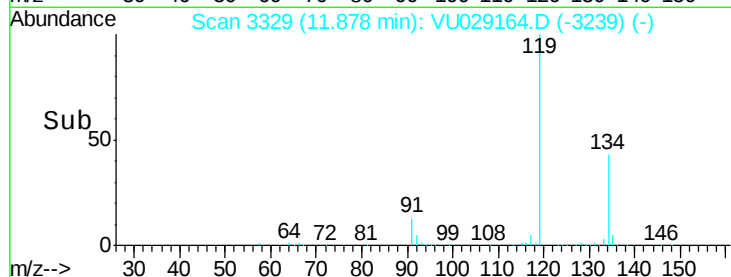
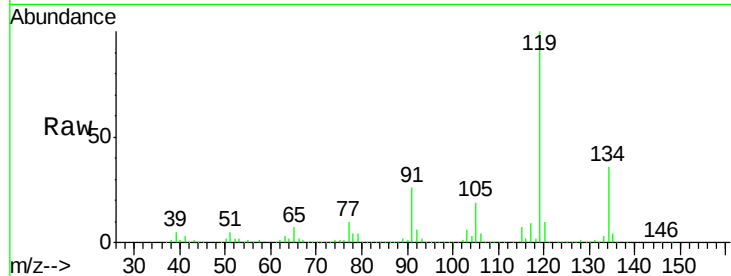




#89
n-Butylbenzene
Concen: 33.295 ug/l
RT: 11.88 min Scan# 3329
Delta R.T. -0.01 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

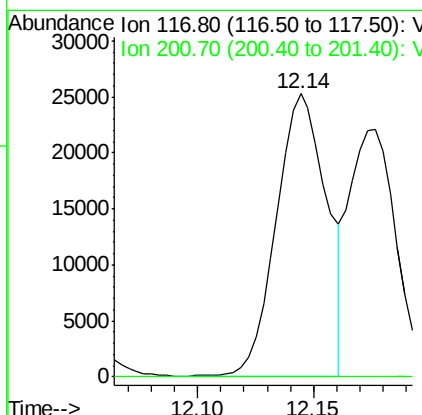
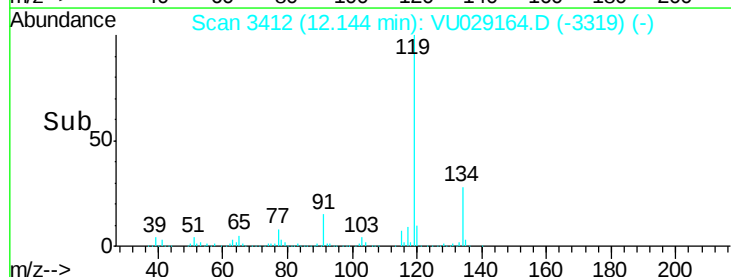
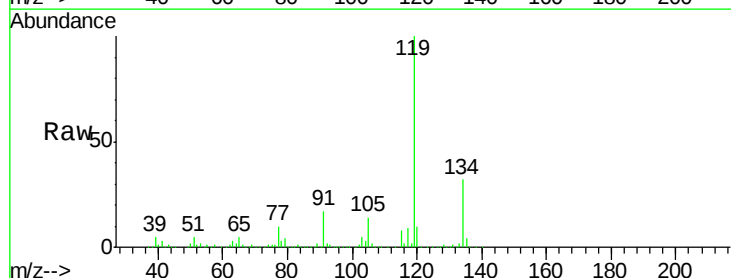
Instrument :
MSVOA_U
ClientSampled :

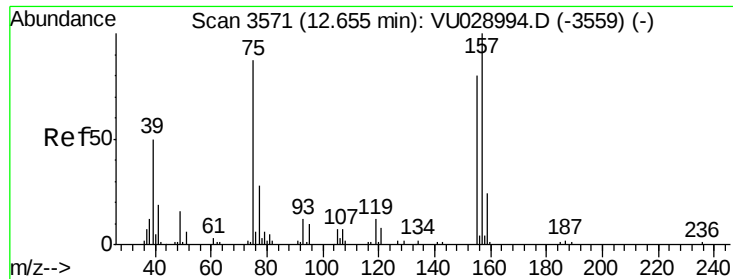
Tot Ion: 91 Resp: 205217
Ion Ratio Lower Upper
91 100
92 28.9 26.2 78.5
134 128.0 12.6 37.6#



#90
Hexachloroethane
Concen: 33.061 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029164.D
Acq: 14 Jan 2019 14:36

Tgt Ion: 117 Resp: 38409
Ion Ratio Lower Upper
117 100
201 0.0 42.4 127.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.740 ug/l

RT: 12.65 min Scan# 3569

Delta R.T. -0.01 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

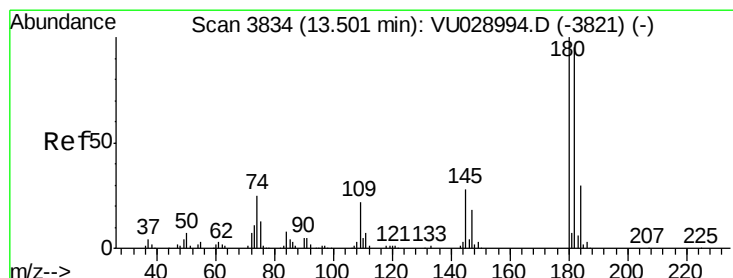
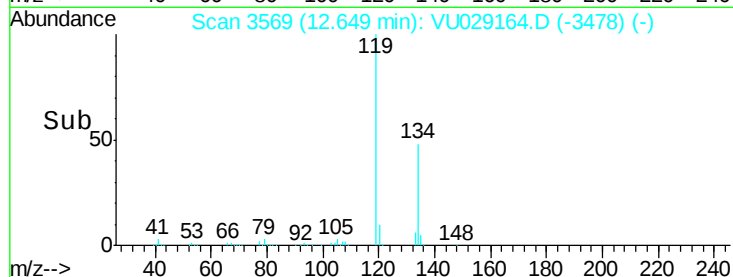
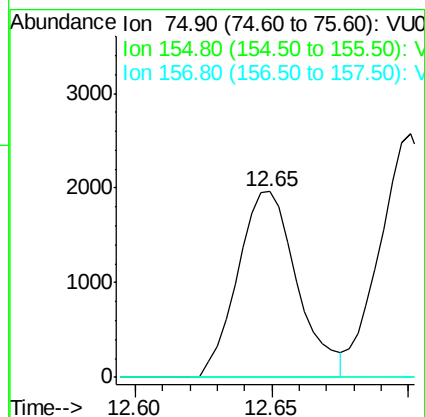
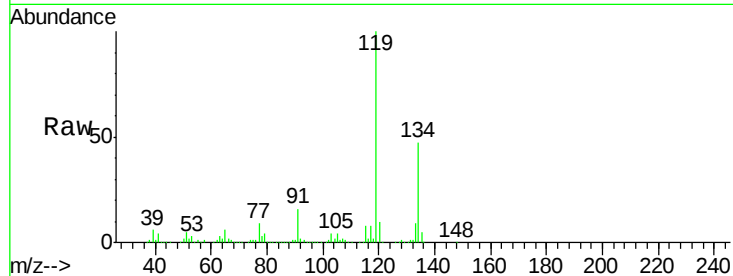
Tot Ion: 75 Resp: 2975

Ion Ratio Lower Upper

75 100

155 0.0 46.3 138.8#

157 0.0 57.4 172.0#



#93

1,2,4-Trichlorobenzene

Concen: 0.370 ug/l

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

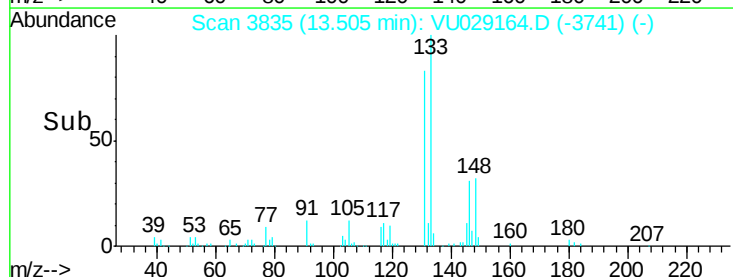
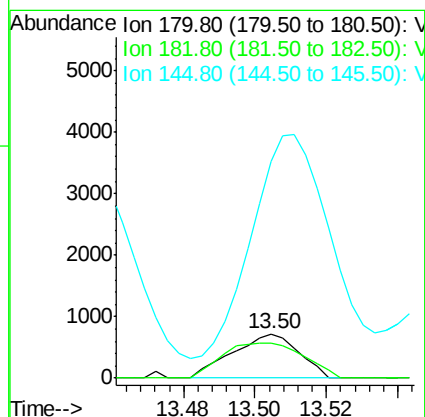
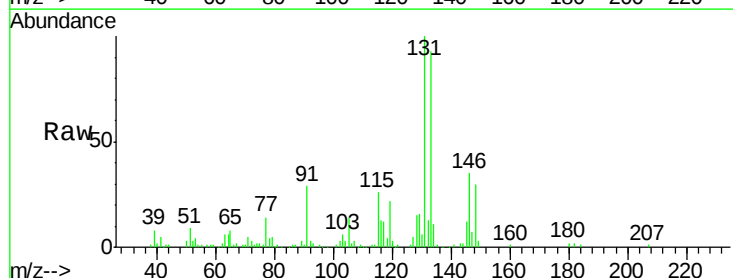
Tgt Ion:180 Resp: 925

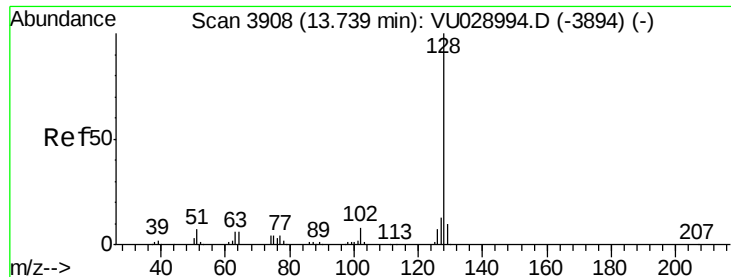
Ion Ratio Lower Upper

180 100

182 98.1 47.5 142.6

145 593.6 14.0 42.0#





#95

Naphthalene

Concen: 507.166 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

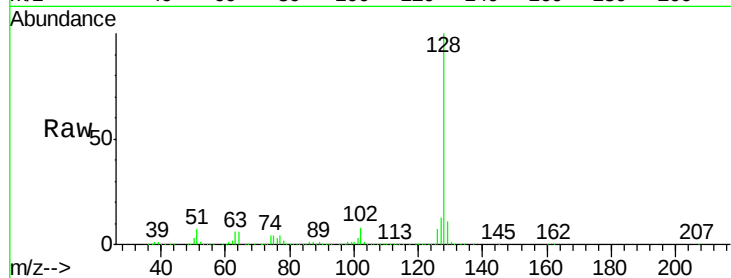
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 4316917

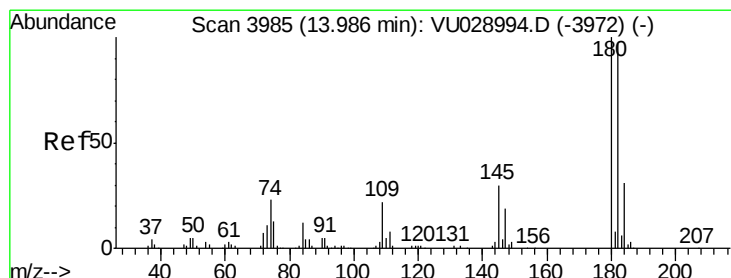
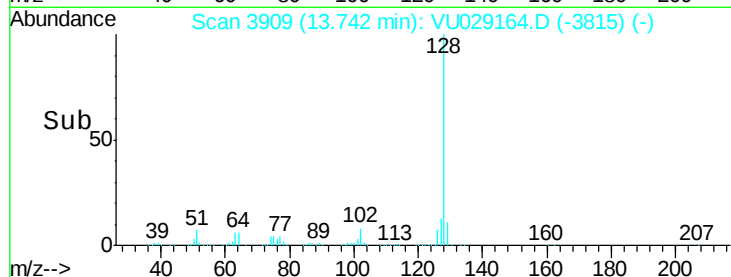
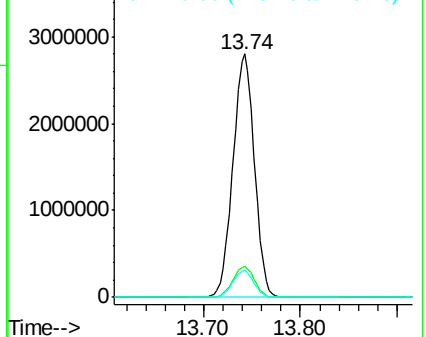
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	11.0	8.5	12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.033 ug/l

RT: 13.98 min Scan# 3984

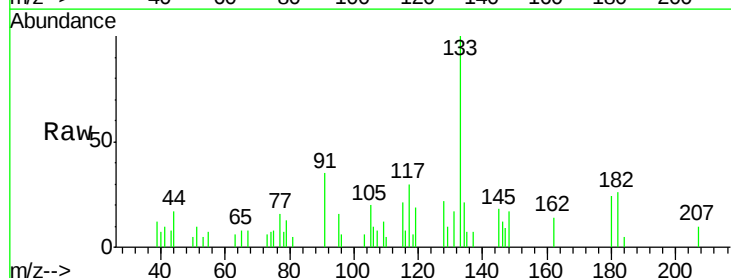
Delta R.T. -0.00 min

Lab File: VU029164.D

Acq: 14 Jan 2019 14:36

Tgt Ion:180 Resp: 674

Ion	Ratio	Lower	Upper
180	100		
182	108.6	48.1	144.3
145	0.0	14.8	44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

