

Data File : VU030840.D
Acq On : 07 Apr 2019 06:51
Operator : JC/SP
Sample : K2249-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YE6

Quant Time: Apr 08 07:11:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 08 07:03:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	479357	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	463885	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	219303	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	219689	51.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.68%
7) Chloroethane-d5	1.68	69	164518	50.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.32%
11) 1,1-Dichloroethene-d2	2.27	63	364525	47.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.20%
21) 2-Butanone-d5	4.17	46	348115	102.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.65%
24) Chloroform-d	4.64	84	315362	48.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.50%
26) 1,2-Dichloroethane-d4	5.30	65	225686	50.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.20%
32) Benzene-d6	5.33	84	669590	49.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.88%
36) 1,2-Dichloropropane-d6	6.32	67	232128	50.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.04%
41) Toluene-d8	7.56	98	569846	47.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.94%
43) trans-1,3-Dichloropropene-	7.85	79	90607	42.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.64%
47) 2-Hexanone-d5	8.31	63	192515	90.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	313292	50.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.10%
64) 1,2-Dichlorobenzene-d4	11.85	152	210380	48.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.56%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	807608	153.184	ug/L 98
8) Chloroethane	1.69	64	482019	160.299	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2508	0.731	ug/L # 22
13) Acetone	2.32	43	15201	4.380	ug/L 100
15) Methyl Acetate	2.62	43	7003	1.301	ug/L 94
17) trans-1,2-Dichloroethene	2.98	96	42764	12.155	ug/L 99
19) 1,1-Dichloroethane	3.44	63	7193808	990.790	ug/L 98
20) cis-1,2-Dichloroethene	4.22	96	6846383	1762.367	ug/L 98
25) Chloroform	4.67	83	16691	2.287	ug/L 91
27) 1,2-Dichloroethane	5.41	62	16126	2.895	ug/L 99
30) 1,1,1-Trichloroethane	4.91	97	3021037	534.380	ug/L 100
33) Benzene	5.39	78	19118	1.259	ug/L 100
34) Trichloroethene	6.19	95	7457	2.003	ug/L 95
39) cis-1,3-Dichloropropene	7.22	75	5174	0.846	ug/L 87
40) 4-Methyl-2-pentanone	7.47	43	8328	1.205	ug/L 96
42) Toluene	7.63	91	532629	34.373	ug/L 99
46) Tetrachloroethene	8.22	164	16334	6.034	ug/L 88

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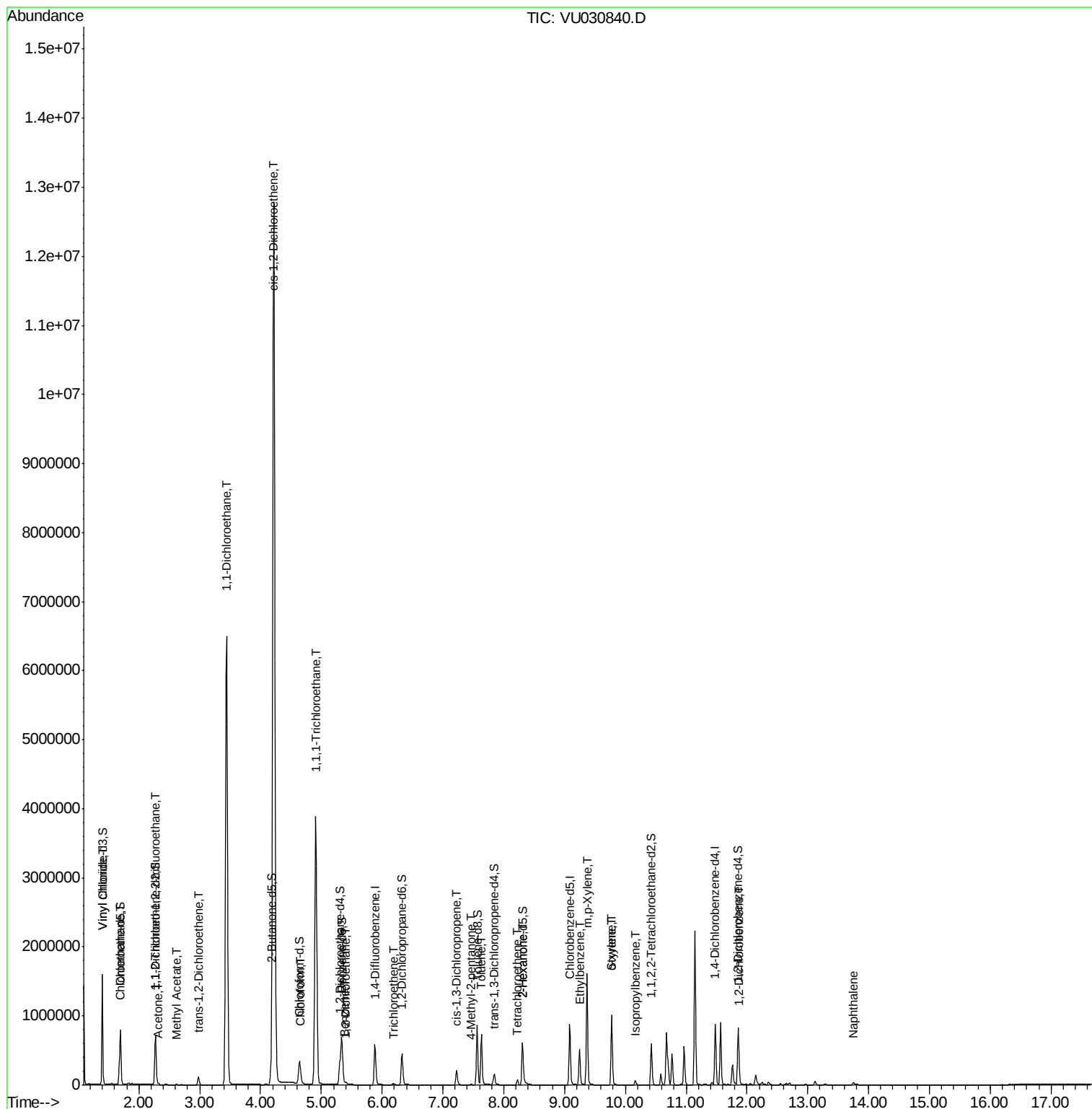
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.31	43	26797	4.969	ug/L #	79
52) Ethylbenzene	9.25	91	360474	21.342	ug/L	100
53) m,p-Xylene	9.37	106	427140	72.509	ug/L	95
54) o-xylene	9.77	106	255448	43.595	ug/L	99
55) Styrene	9.77	104	15593	1.551	ug/L #	1
56) Isopropylbenzene	10.16	105	42179	2.734	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	5295	0.762	ug/L #	85
69) Naphthalene	13.75	128	40636	2.911	ug/L	97

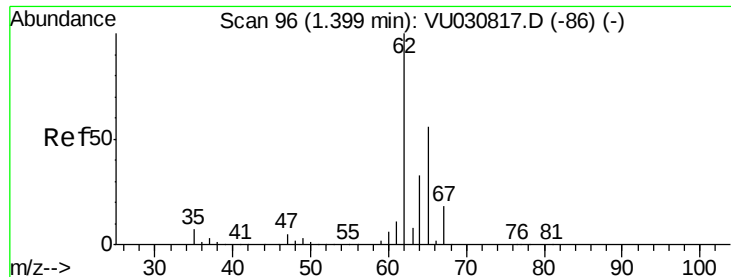
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 153.184 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

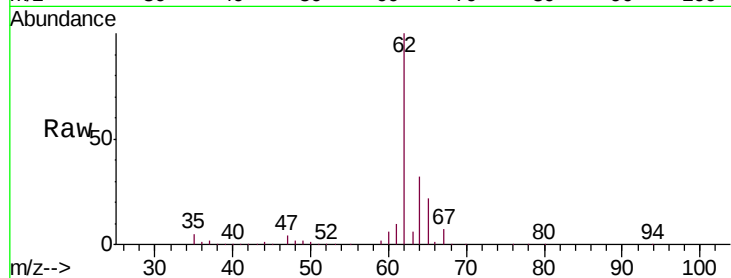
E3YE6

Tgt Ion: 62 Resp: 807608

Ion Ratio Lower Upper

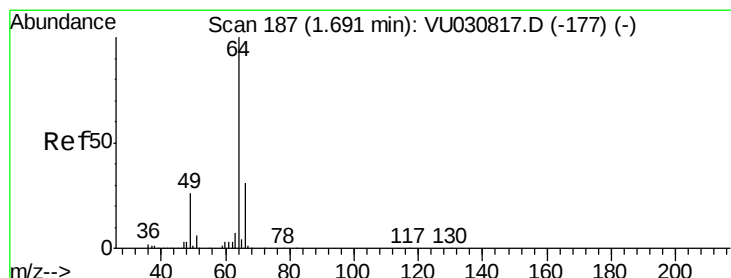
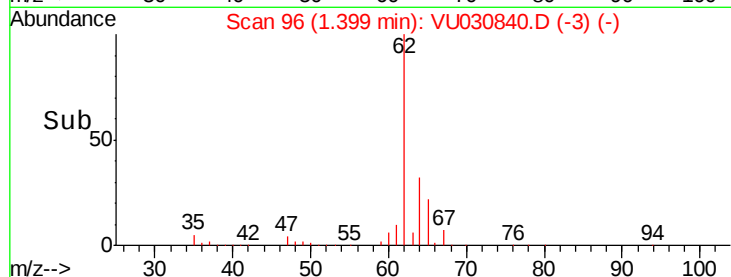
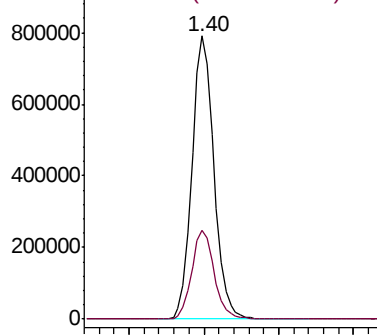
62 100

64 31.5 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 160.299 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030840.D

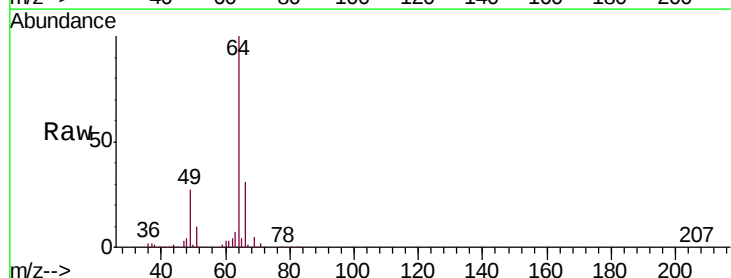
Acq: 07 Apr 2019 06:51

Tgt Ion: 64 Resp: 482019

Ion Ratio Lower Upper

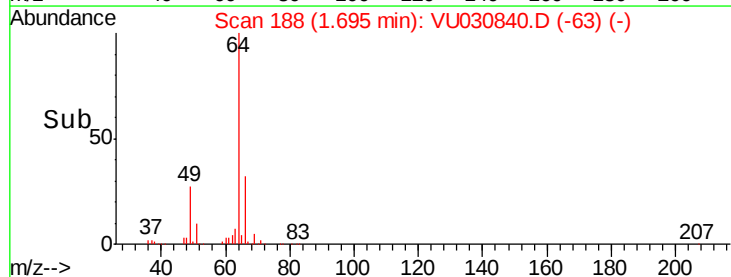
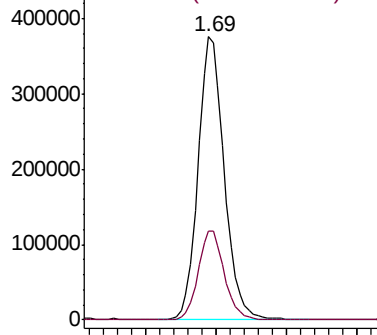
64 100

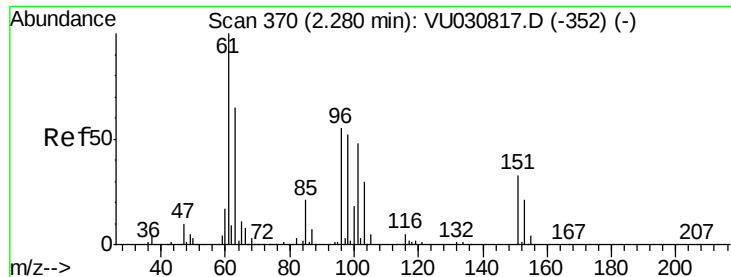
66 31.5 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.731 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

E3YE6

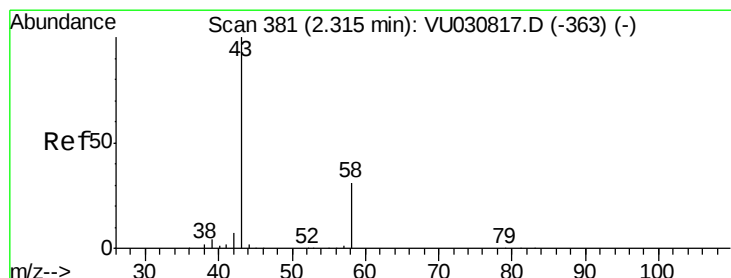
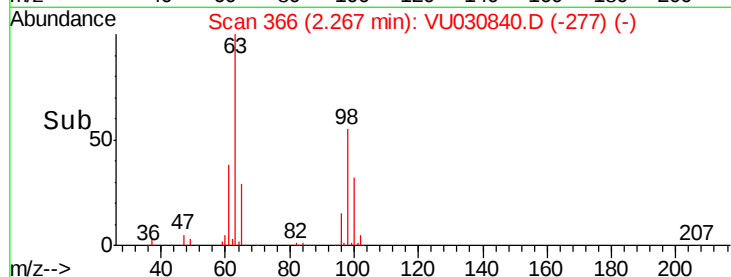
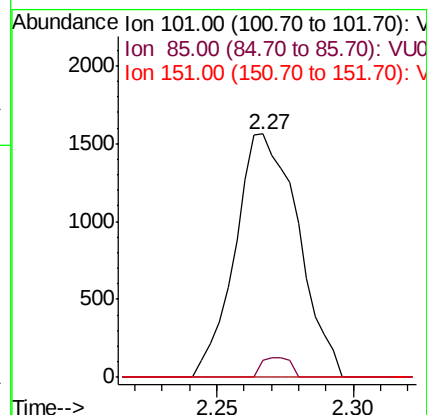
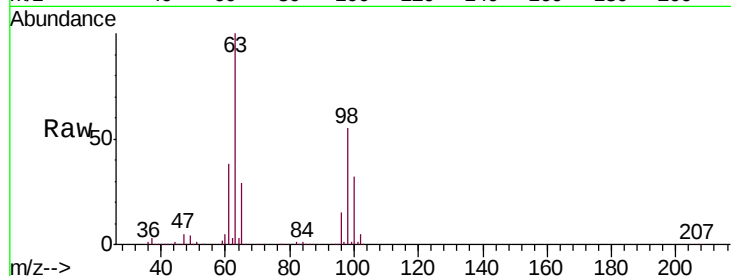
Tgt Ion:101 Resp: 2508

Ion Ratio Lower Upper

101 100

85 3.6 36.8 55.2#

151 0.0 57.4 86.0#



#13

Acetone

Concen: 4.380 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU030840.D

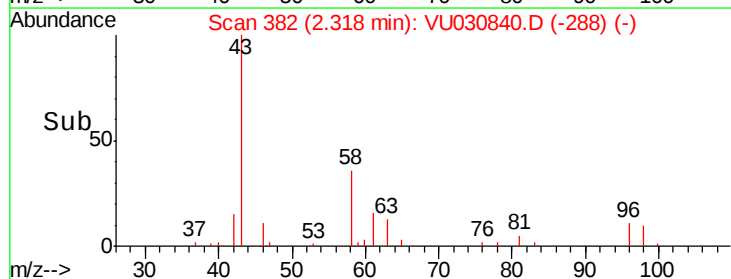
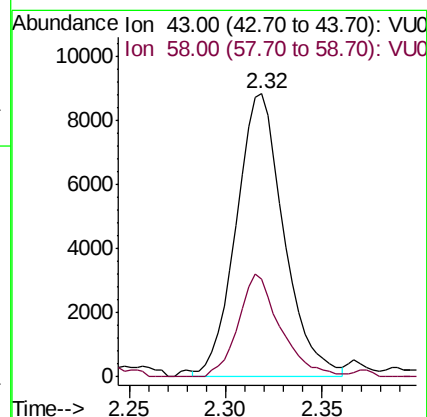
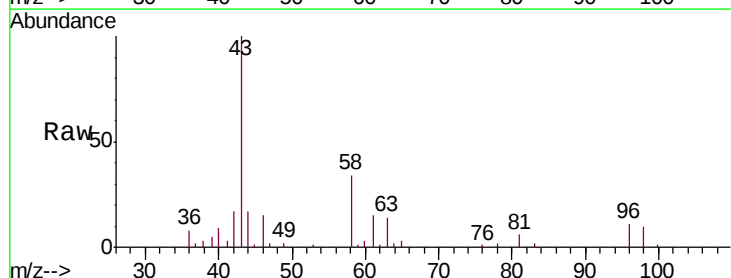
Acq: 07 Apr 2019 06:51

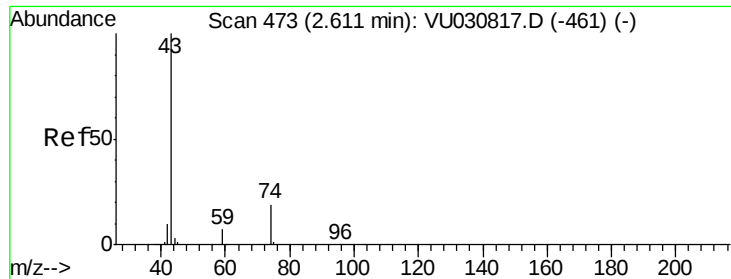
Tgt Ion: 43 Resp: 15201

Ion Ratio Lower Upper

43 100

58 32.1 0.0 64.0

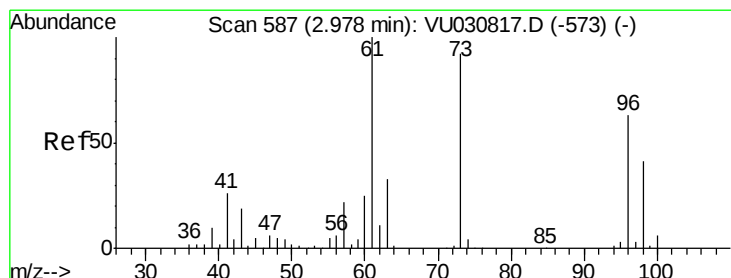
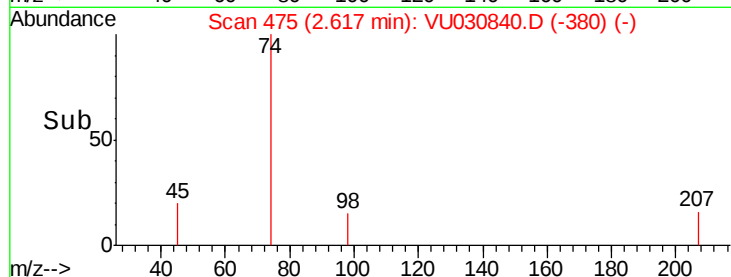
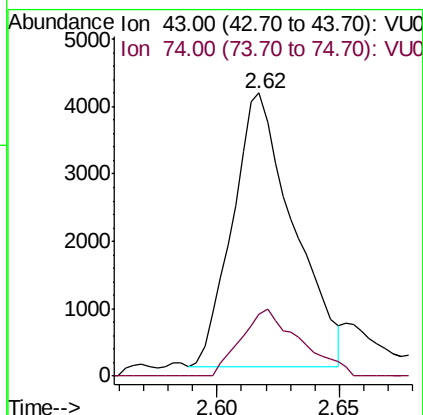
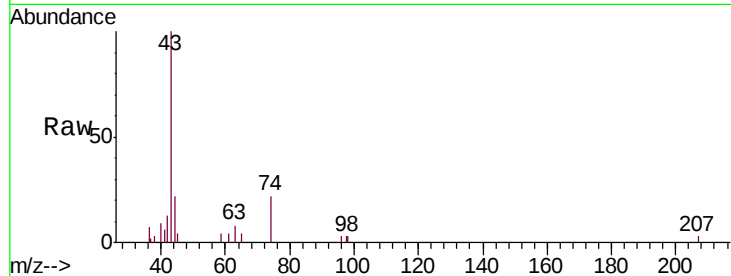




#15
Methyl Acetate
Concen: 1.301 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.01 min
Lab File: VU030840.D
Acq: 07 Apr 2019 06:51

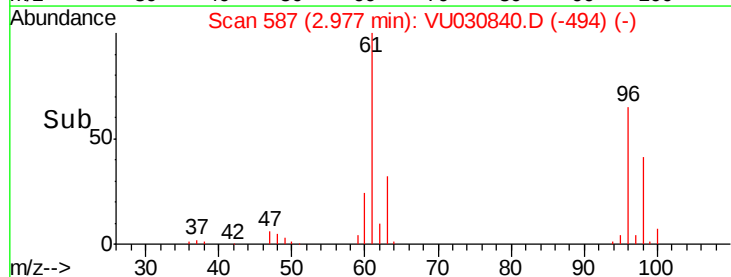
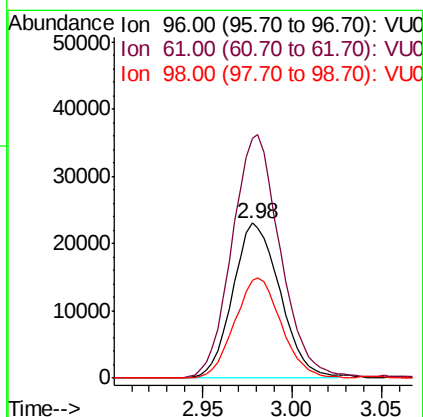
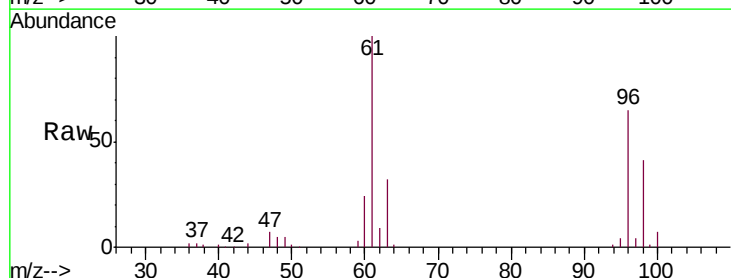
Instrument :
MSVOA_U
ClientSampleId :
E3YE6

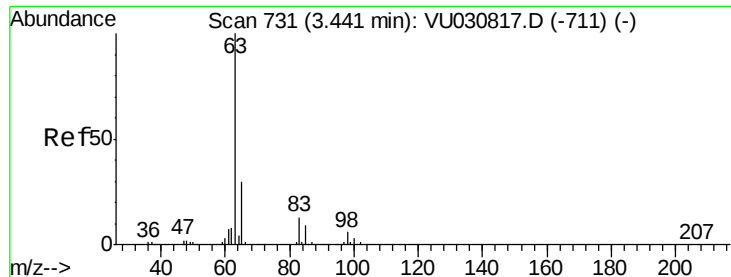
Tgt Ion: 43 Resp: 7003
Ion Ratio Lower Upper
43 100
74 24.0 17.1 25.7



#17
trans-1,2-Dichloroethene
Concen: 12.155 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU030840.D
Acq: 07 Apr 2019 06:51

Tgt Ion: 96 Resp: 42764
Ion Ratio Lower Upper
96 100
61 154.7 109.5 203.3
98 62.7 44.0 81.6

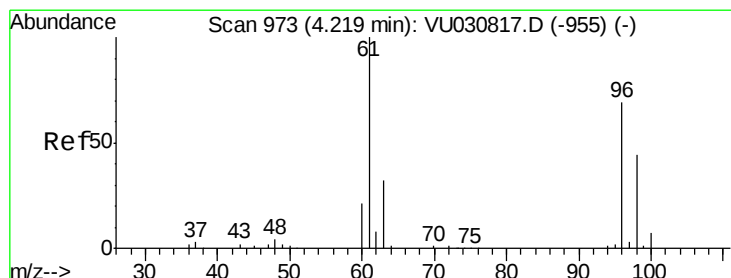
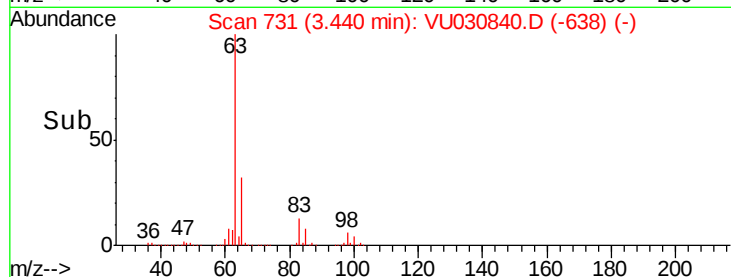
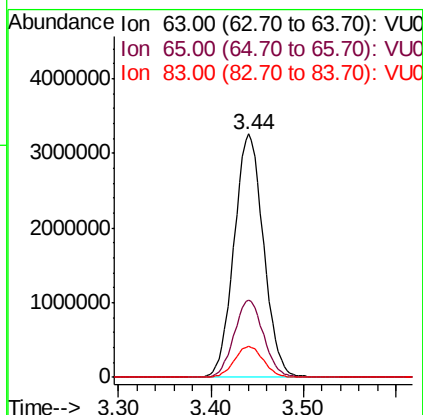
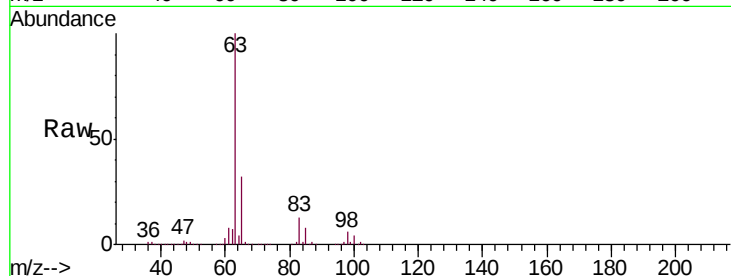




#19
 1,1-Dichloroethane
 Concen: 990.790 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

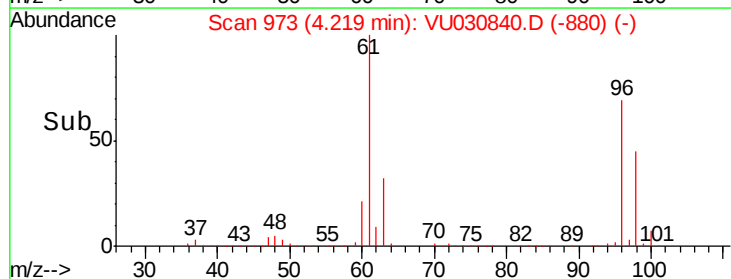
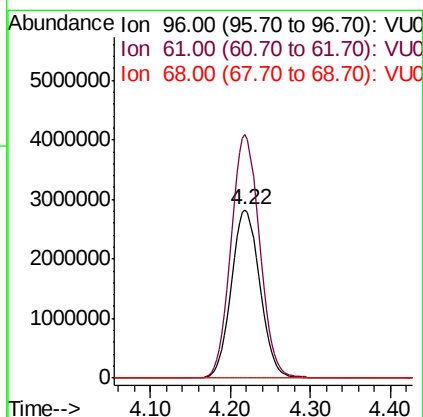
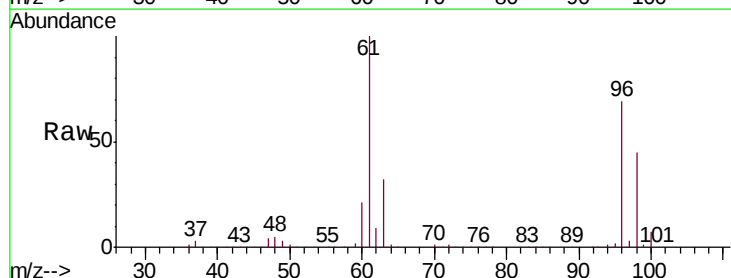
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6

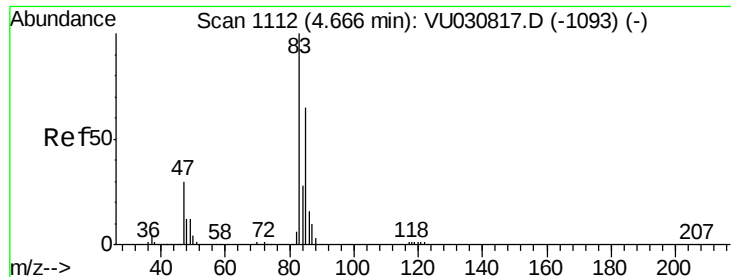
Tgt Ion: 63 Resp: 7193808
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.4 39.8
 83 12.8 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 1762.367 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

Tgt Ion: 96 Resp: 6846383
 Ion Ratio Lower Upper
 96 100
 61 144.6 102.9 191.1
 68 0.0 0.0 0.0





#25

Chloroform

Concen: 2.287 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampled :

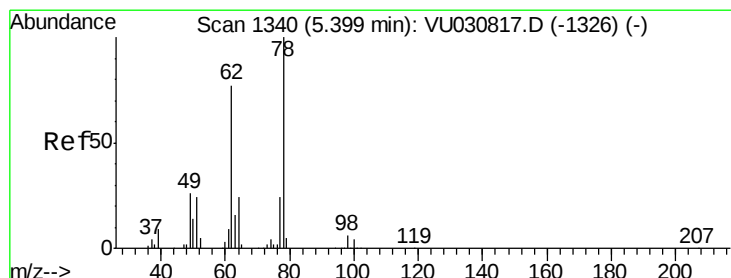
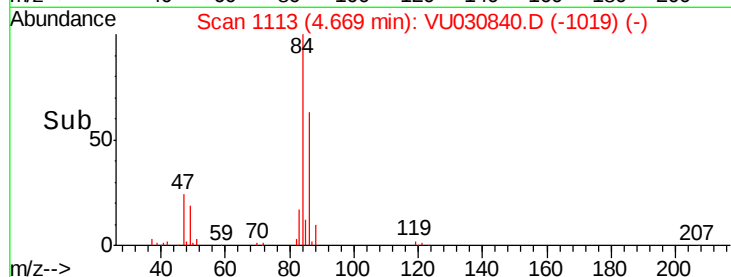
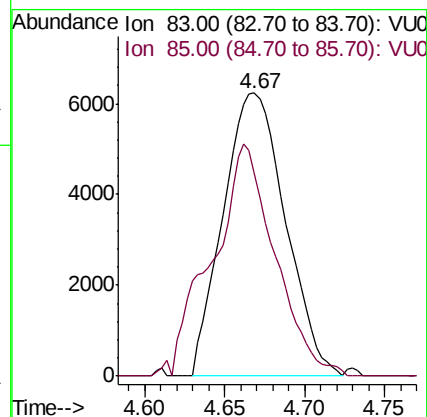
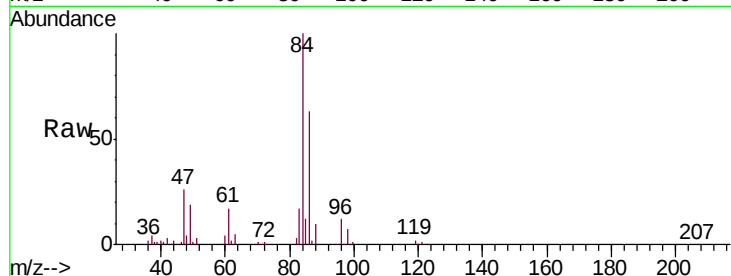
E3YE6

Tgt Ion: 83 Resp: 16691

Ion Ratio Lower Upper

83 100

85 72.3 45.8 85.0



#27

1,2-Dichloroethane

Concen: 2.895 ug/L

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU030840.D

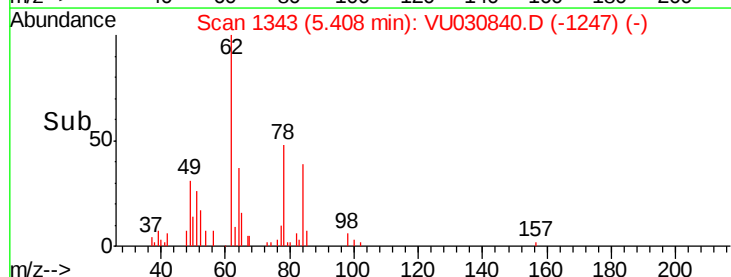
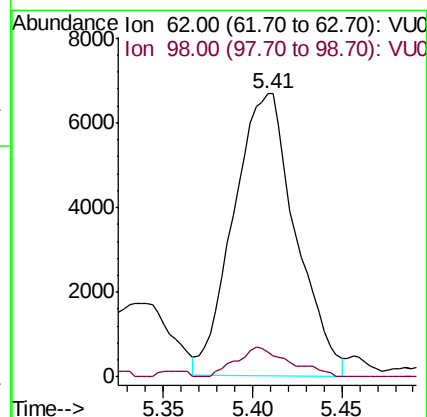
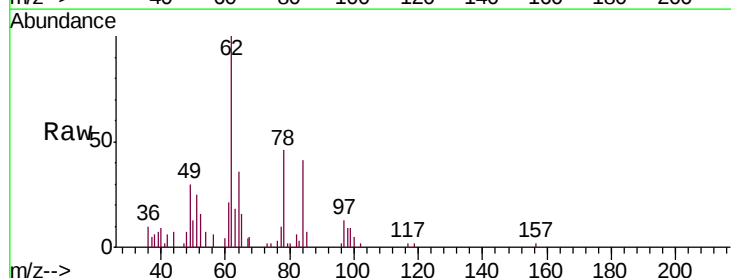
Acq: 07 Apr 2019 06:51

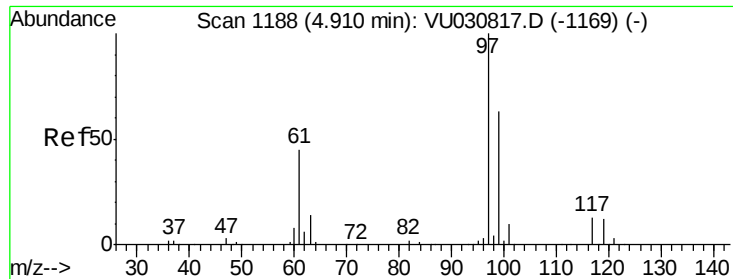
Tgt Ion: 62 Resp: 16126

Ion Ratio Lower Upper

62 100

98 8.6 7.2 10.8

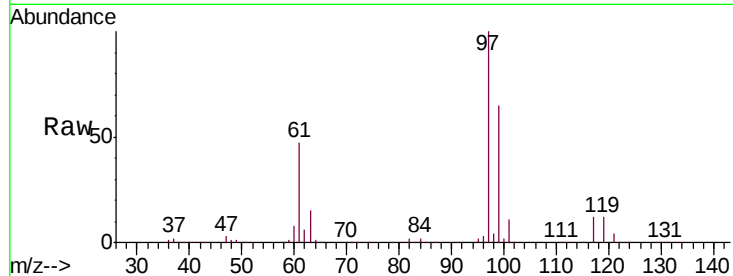




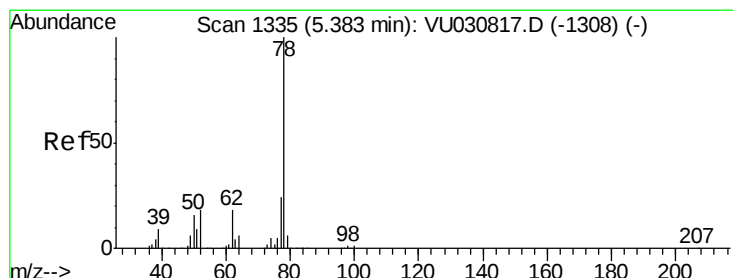
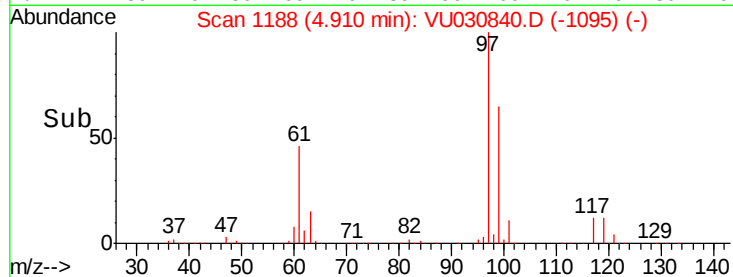
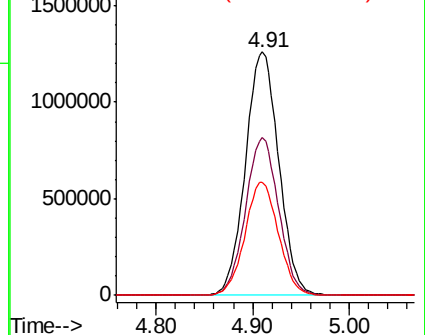
#30
 1,1,1-Trichloroethane
 Concen: 534.380 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6

Tgt Ion: 97 Resp: 3021037
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.4 77.2
 61 46.1 37.1 55.7

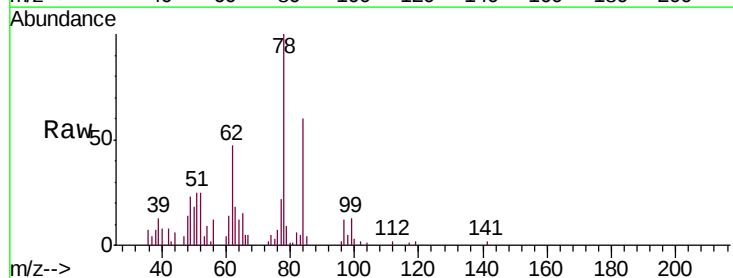


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

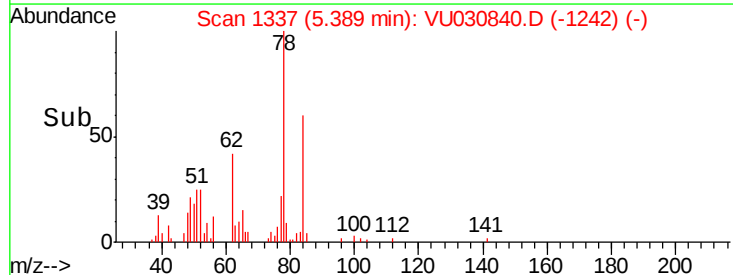
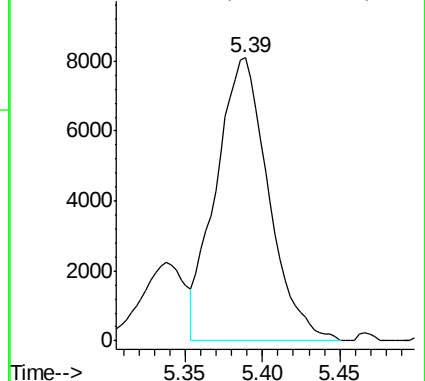


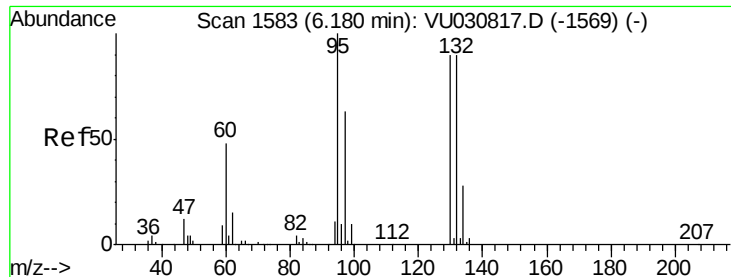
#33
 Benzene
 Concen: 1.259 ug/L
 RT: 5.39 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

Tgt Ion: 78 Resp: 19118



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.003 ug/L

RT: 6.19 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

E3YE6

Tgt Ion: 95 Resp: 7457

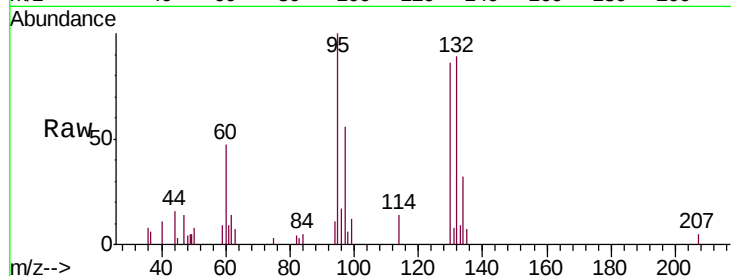
Ion Ratio Lower Upper

95 100

97 55.7 44.5 82.7

132 88.5 61.5 114.1

130 86.3 64.9 120.5

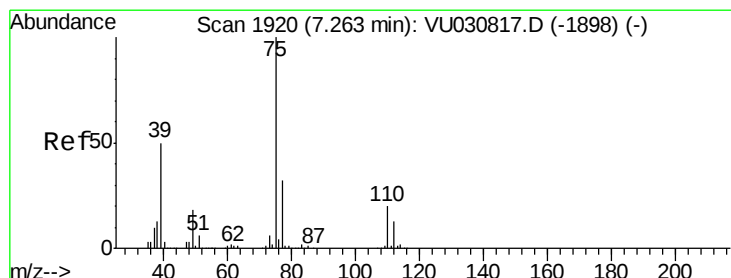
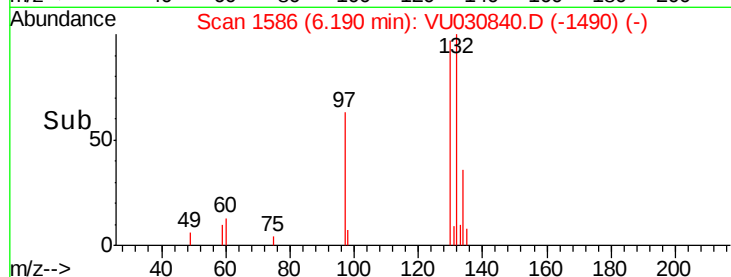
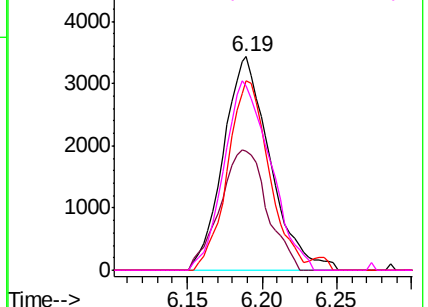


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#39

cis-1,3-Dichloropropene

Concen: 0.846 ug/L

RT: 7.22 min Scan# 1908

Delta R.T. -0.04 min

Lab File: VU030840.D

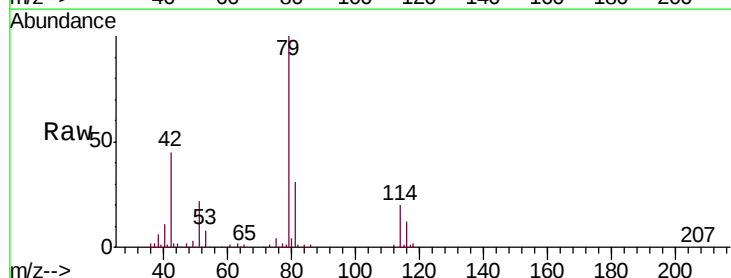
Acq: 07 Apr 2019 06:51

Tgt Ion: 75 Resp: 5174

Ion Ratio Lower Upper

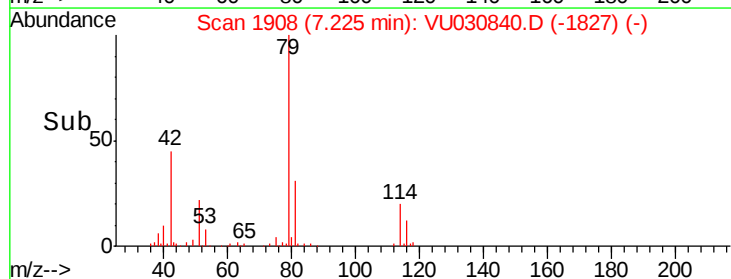
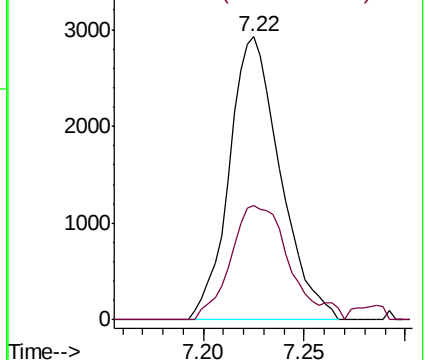
75 100

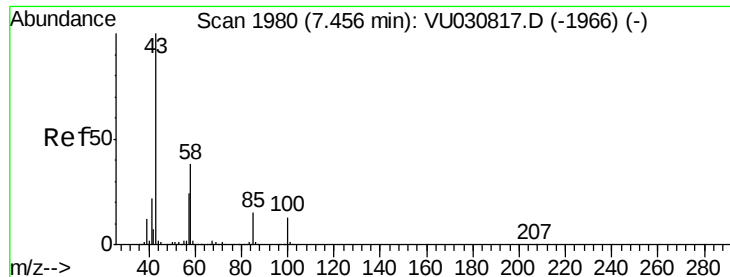
77 40.6 23.1 42.9



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

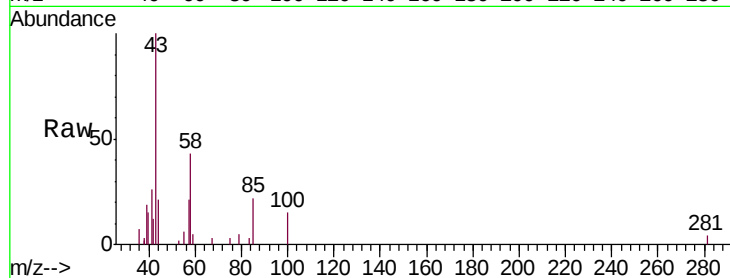




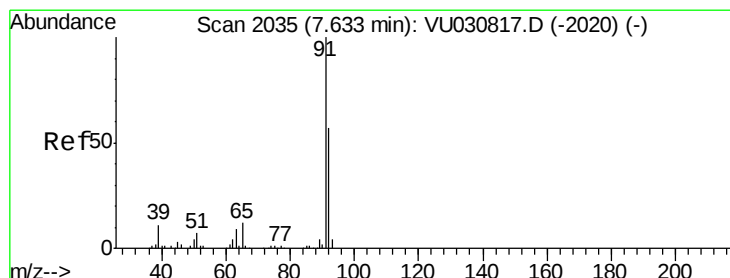
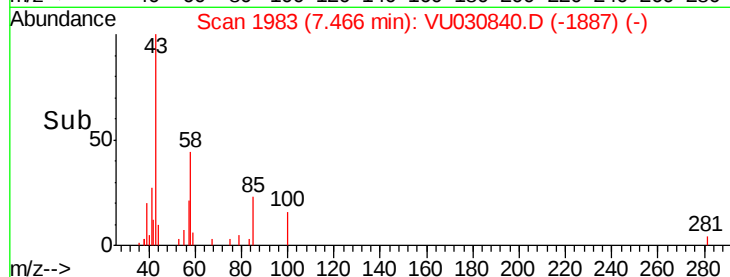
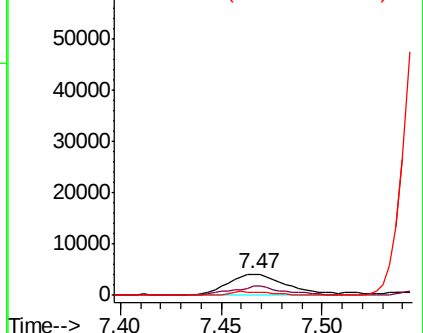
#40
 4-Methyl-2-pentanone
 Concen: 1.205 ug/L
 RT: 7.47 min Scan# 1983
 Delta R.T. 0.01 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE6

Tgt Ion: 43 Resp: 8328
 Ion Ratio Lower Upper
 43 100
 58 39.6 29.7 44.5
 100 13.1 9.8 14.6

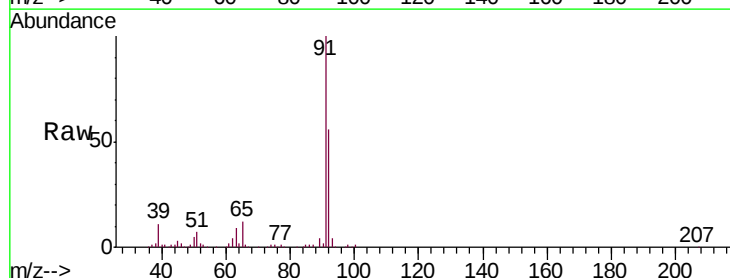


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

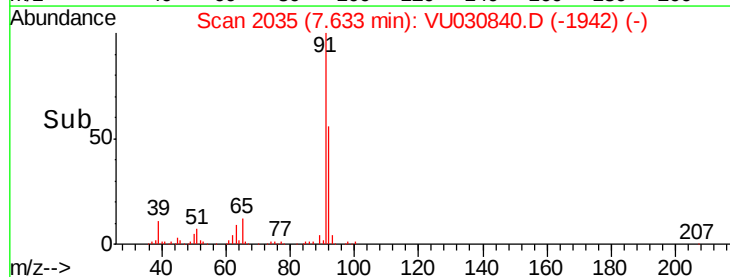
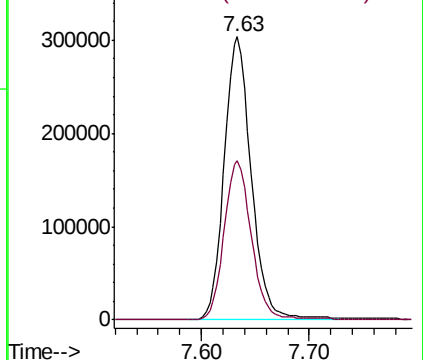


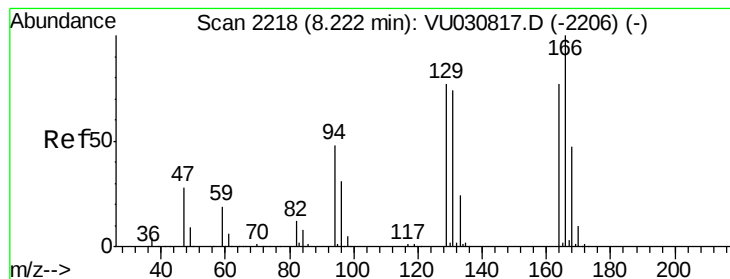
#42
 Toluene
 Concen: 34.373 ug/L
 RT: 7.63 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VU030840.D
 Acq: 07 Apr 2019 06:51

Tgt Ion: 91 Resp: 532629
 Ion Ratio Lower Upper
 91 100
 92 56.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU0
 Ion 92.00 (91.70 to 92.70): VU0





#46

Tetrachloroethene

Concen: 6.034 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

E3YE6

Tgt Ion:164 Resp: 16334

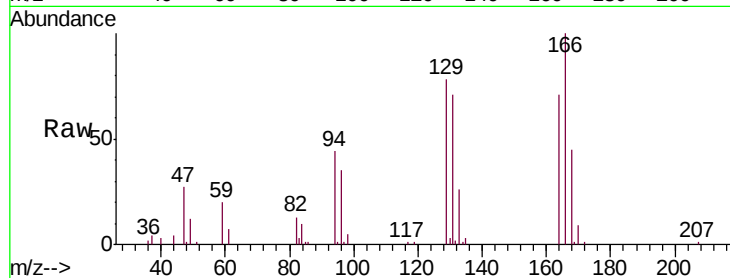
Ion Ratio Lower Upper

164 100

129 110.5 67.4 125.2

131 100.8 65.9 122.5

166 141.2 88.6 164.6

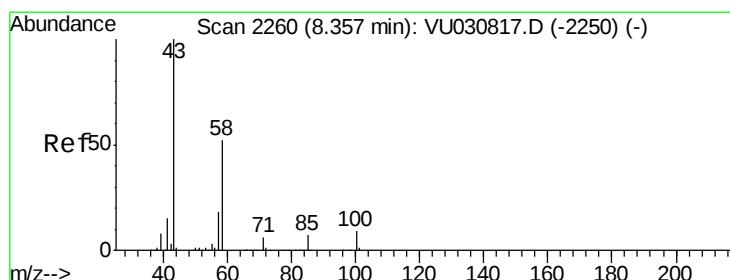
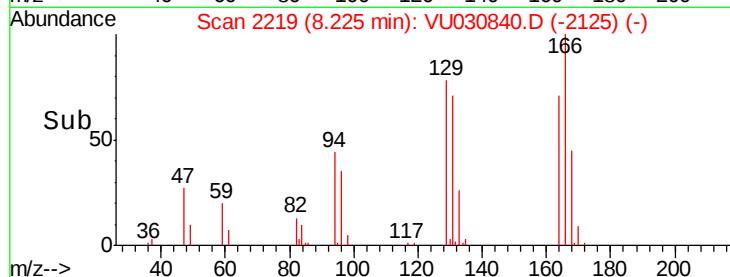
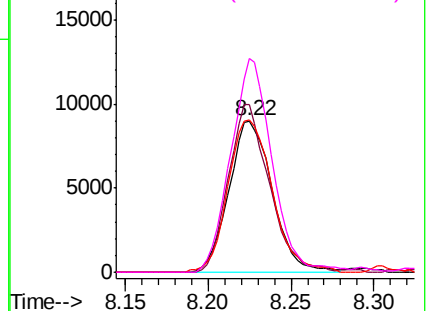


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.969 ug/L

RT: 8.31 min Scan# 2245

Delta R.T. -0.05 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Tgt Ion: 43 Resp: 26797

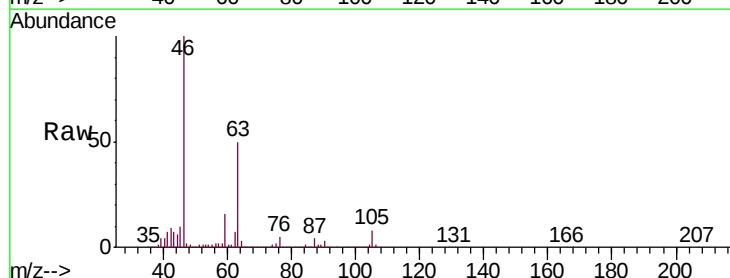
Ion Ratio Lower Upper

43 100

58 39.1 41.9 62.9#

57 30.2 14.3 21.5#

100 1.1 7.1 10.7#

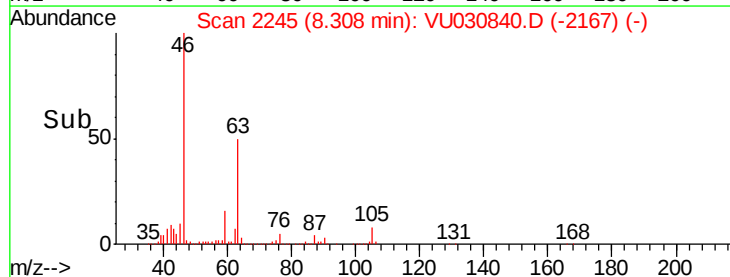
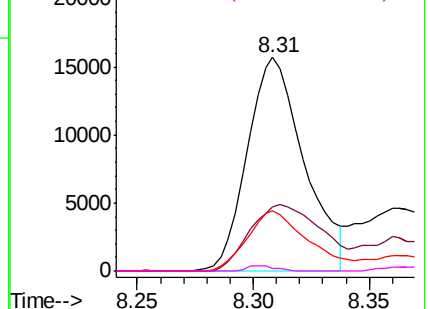


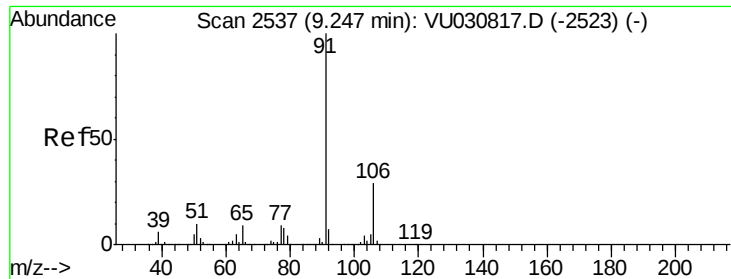
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#52

Ethylbenzene

Concen: 21.342 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

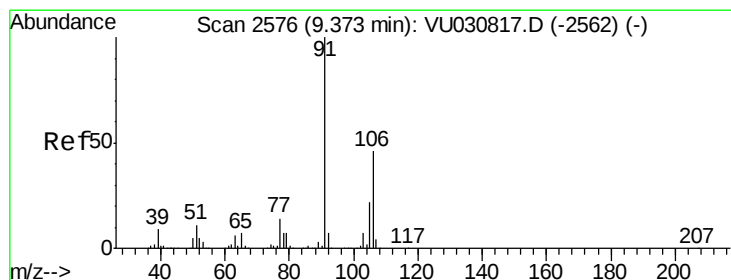
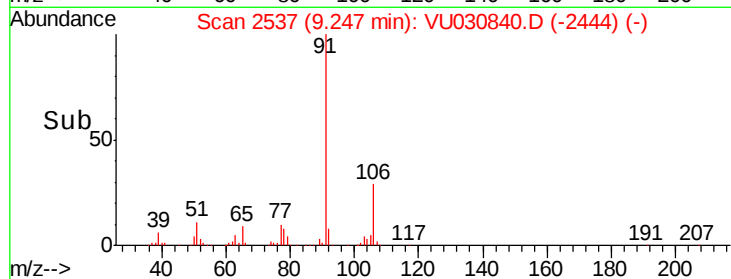
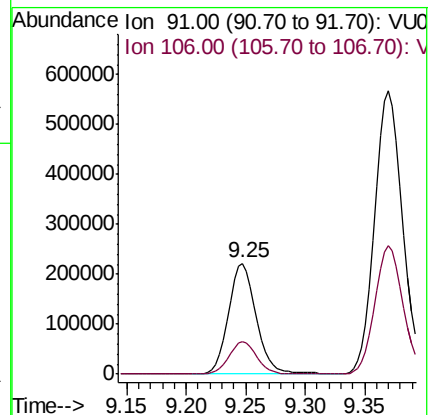
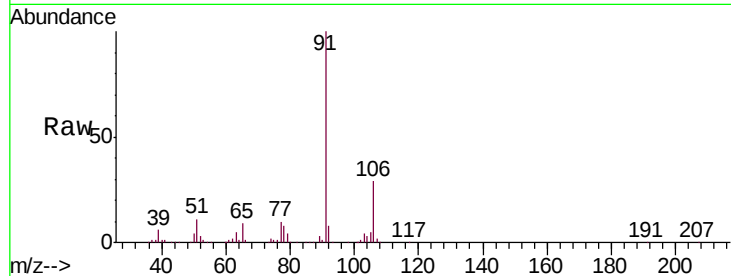
E3YE6

Tgt Ion: 91 Resp: 360474

Ion Ratio Lower Upper

91 100

106 29.3 20.4 37.8



#53

m,p-Xylene

Concen: 72.509 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030840.D

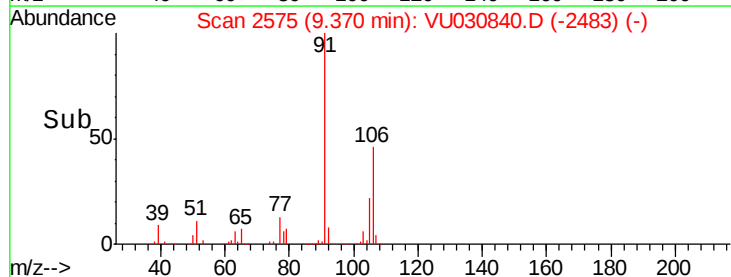
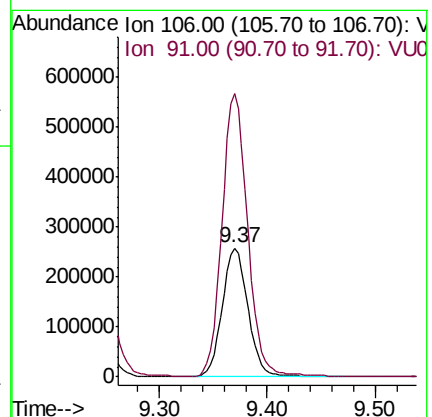
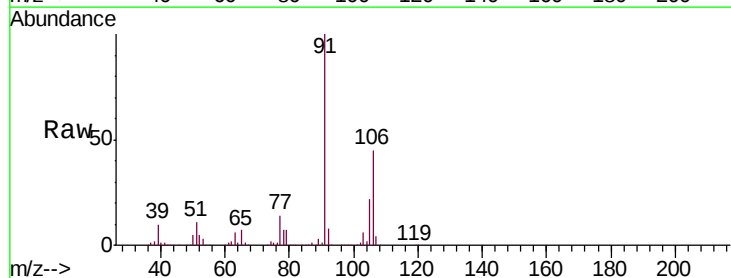
Acq: 07 Apr 2019 06:51

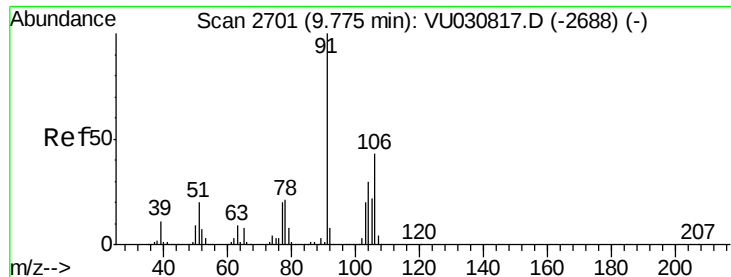
Tgt Ion: 106 Resp: 427140

Ion Ratio Lower Upper

106 100

91 219.9 148.0 274.8





#54

o-xylene

Concen: 43.595 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

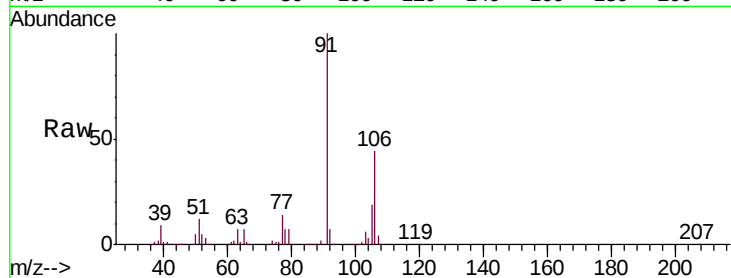
E3YE6

Tgt Ion:106 Resp: 255448

Ion Ratio Lower Upper

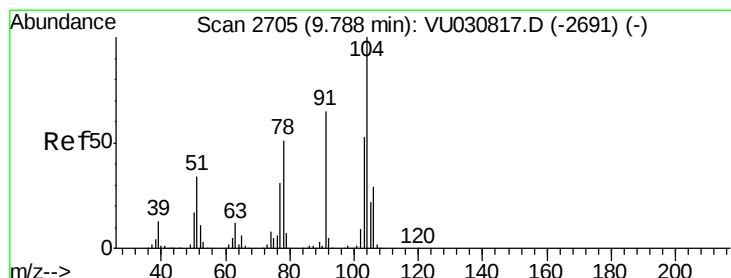
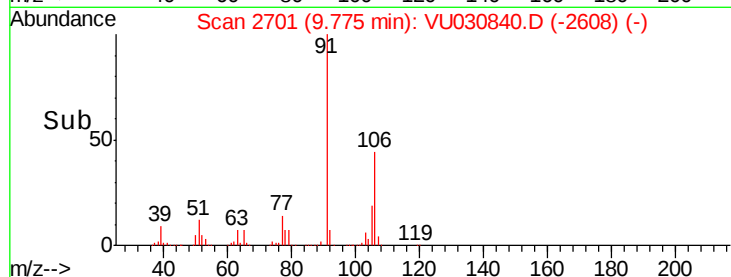
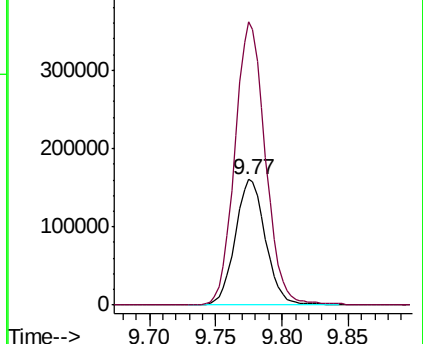
106 100

91 225.3 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.551 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.01 min

Lab File: VU030840.D

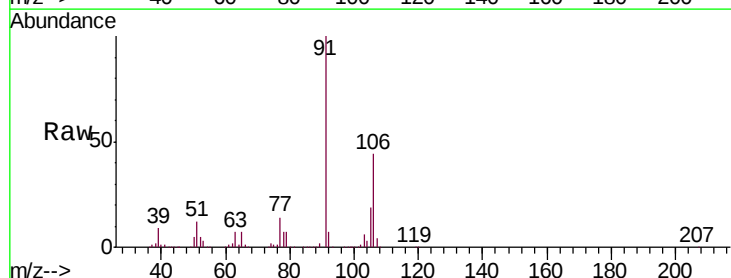
Acq: 07 Apr 2019 06:51

Tgt Ion:104 Resp: 15593

Ion Ratio Lower Upper

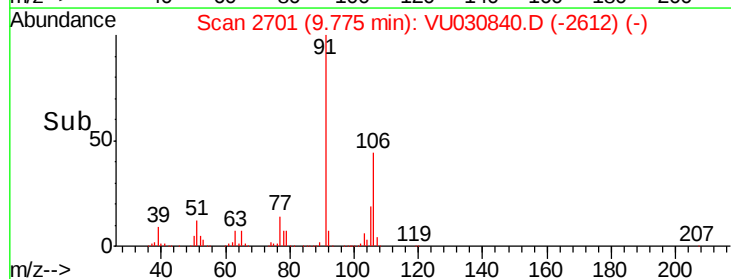
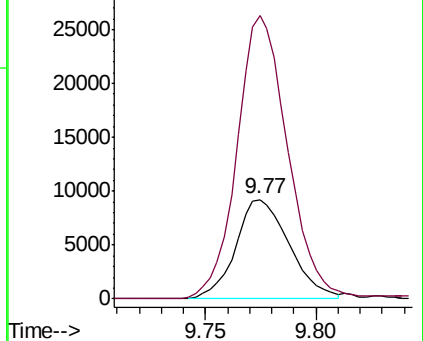
104 100

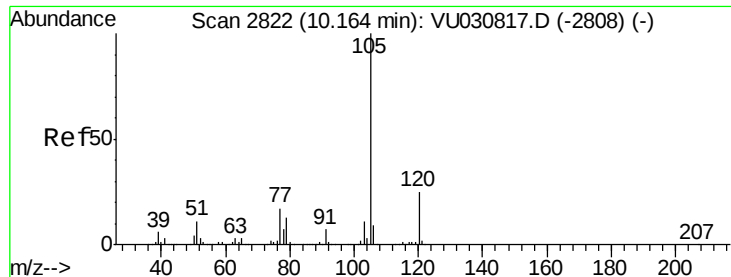
78 285.8 35.1 65.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.734 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

E3YE6

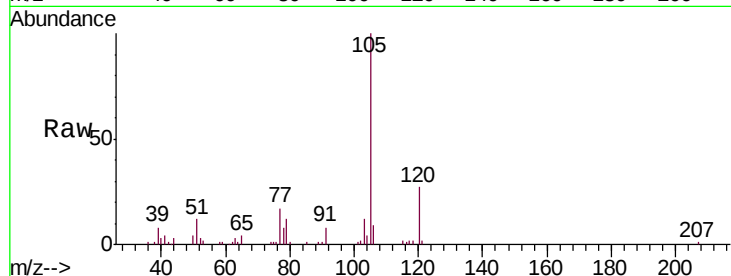
Tgt Ion:105 Resp: 42179

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6

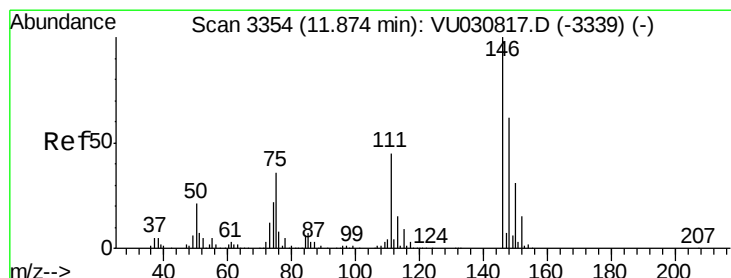
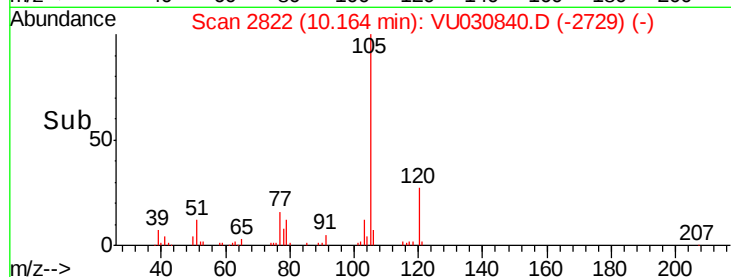
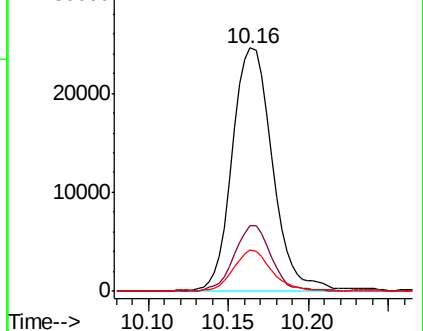
77 16.3 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#65

1,2-Dichlorobenzene

Concen: 0.762 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU030840.D

Acq: 07 Apr 2019 06:51

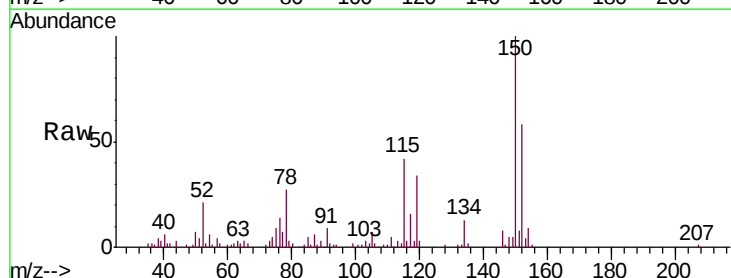
Tgt Ion:146 Resp: 5295

Ion Ratio Lower Upper

146 100

111 64.5 34.9 52.3#

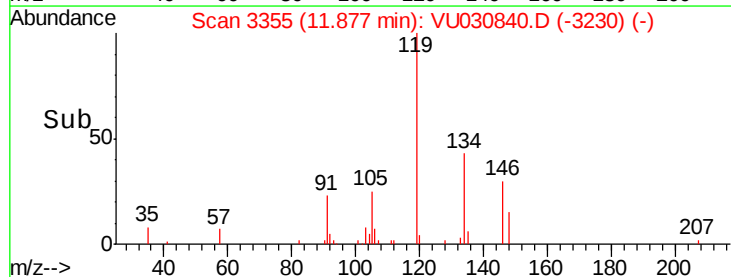
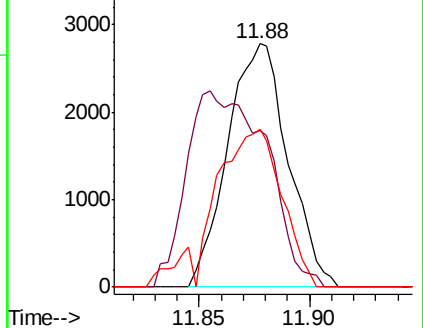
148 64.8 50.4 75.6

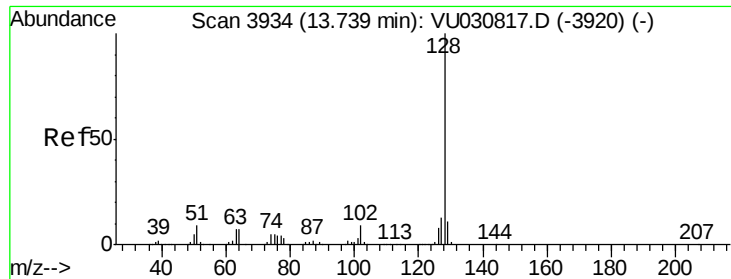


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 2.911 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.01 min

Lab File: VU030840.D

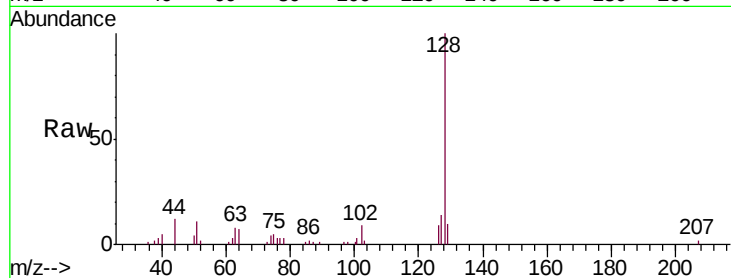
Acq: 07 Apr 2019 06:51

Instrument :

MSVOA_U

ClientSampleId :

E3YE6



Tgt Ion:128 Resp: 40636

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 8.7 8.6 12.8

