

Data File : VU034747.D
Acq On : 23 Sep 2019 20:55
Operator : JC/SP
Sample : K4932-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG5

Quant Time: Sep 24 03:40:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	481129	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	461538	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	231461	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	203108	41.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.48%
7) Chloroethane-d5	1.67	69	170859	44.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.76%
11) 1,1-Dichloroethene-d2	2.26	63	281899	33.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.60%
21) 2-Butanone-d5	4.15	46	444503	117.75	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.75%
24) Chloroform-d	4.62	84	352750	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
26) 1,2-Dichloroethane-d4	5.29	65	254710	48.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.78%
32) Benzene-d6	5.32	84	725623	50.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.44%
36) 1,2-Dichloropropane-d6	6.31	67	253762	50.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.50%
41) Toluene-d8	7.54	98	698952	51.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.72%
43) trans-1,3-Dichloropropene-	7.83	79	117791	49.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.38%
47) 2-Hexanone-d5	8.29	63	300258	119.56	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	119.56%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	341004	49.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.30%
64) 1,2-Dichlorobenzene-d4	11.84	152	252278	51.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.96%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	7925	1.461 ug/L #	36
13) Acetone	2.31	43	459577	104.658 ug/L	99
15) Methyl Acetate	2.61	43	6285	1.071 ug/L #	81
16) Methylene chloride	2.69	84	126376	31.694 ug/L	95
19) 1,1-Dichloroethane	3.42	63	8386	1.062 ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	174863	43.453 ug/L	97
22) 2-Butanone	4.24	43	111375	21.319 ug/L	98
27) 1,2-Dichloroethane	5.38	62	25455	3.790 ug/L	100
29) Cyclohexane	4.97	56	42838	5.623 ug/L	92
33) Benzene	5.37	78	1090498	68.125 ug/L	100
34) Trichloroethene	6.16	95	29397	7.436 ug/L	92
35) Methylcyclohexane	6.39	83	37690	5.618 ug/L	96
37) 1,2-Dichloropropane	6.41	63	20080	4.213 ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	5430808	596.805 ug/L	99
42) Toluene	7.62	91	8772733	507.110 ug/L	99
46) Tetrachloroethene	8.21	164	17637	6.342 ug/L	94
48) 2-Hexanone	8.34	43	29702	4.179 ug/L #	91

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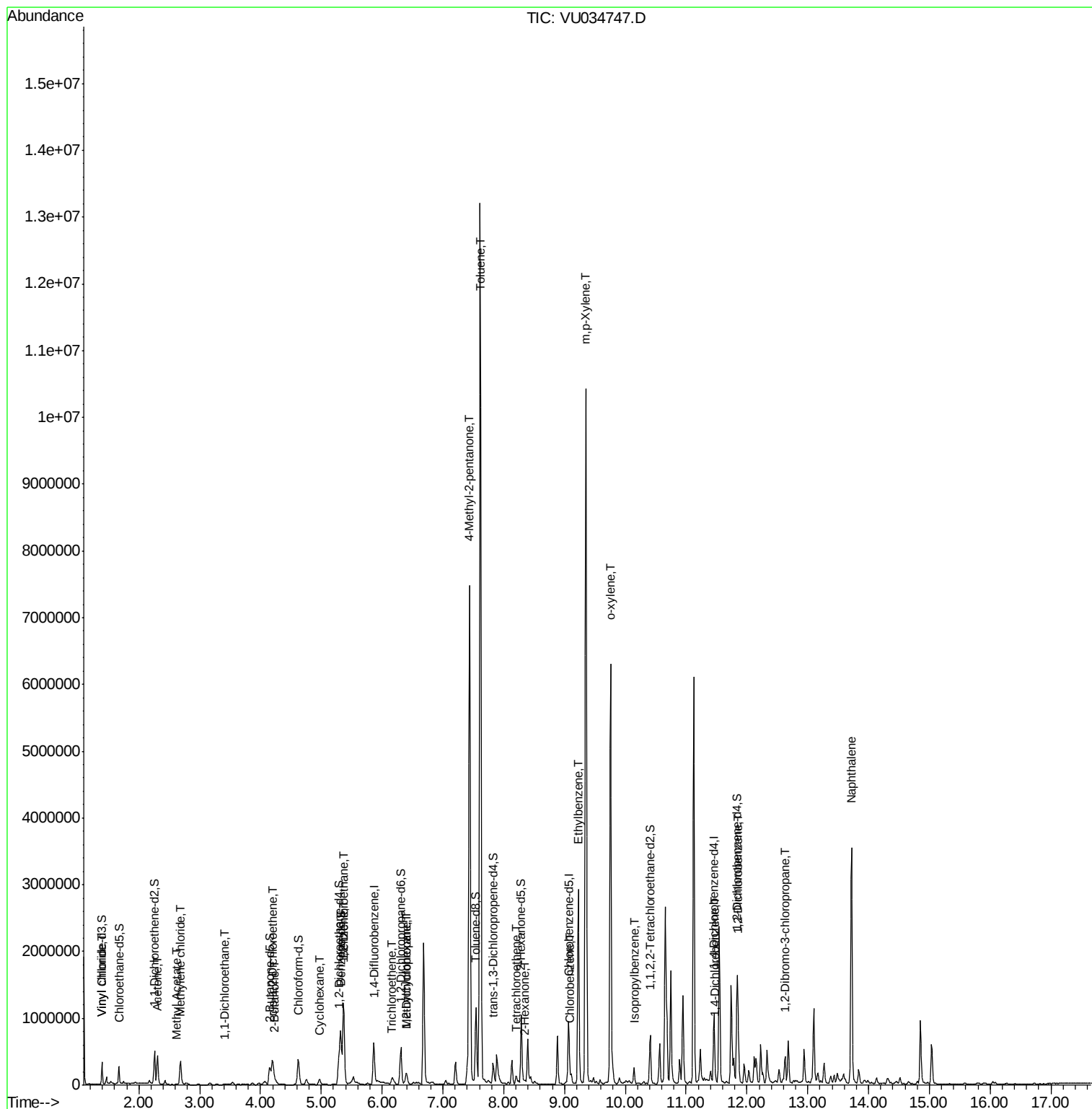
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.10	112	21111	2.007	ug/L	97
52) Ethylbenzene	9.23	91	1941536	99.665	ug/L	99
53) m,p-Xylene	9.35	106	2596725	376.340	ug/L	99
54) o-xylene	9.76	106	1469754	215.360	ug/L	96
56) Isopropylbenzene	10.14	105	135598	7.369	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	15318	1.876	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	145150	17.922	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.63	75	2523	1.466	ug/L #	10
69) Naphthalene	13.72	128	2528422	172.935	ug/L	100

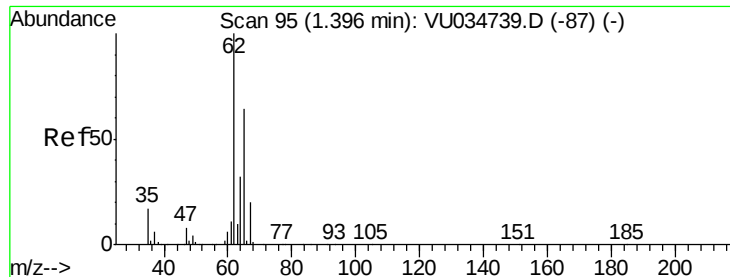
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.461 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

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Acq: 23 Sep 2019 20:55

Instrument :

MSVOA_U

ClientSampleId :

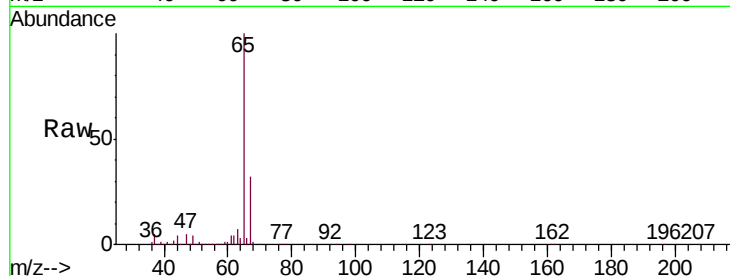
BFDG5

Tgt Ion: 62 Resp: 7925

Ion Ratio Lower Upper

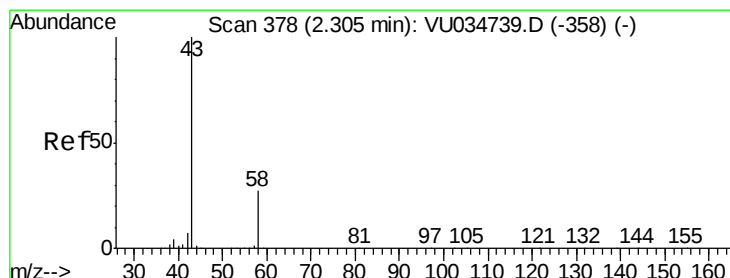
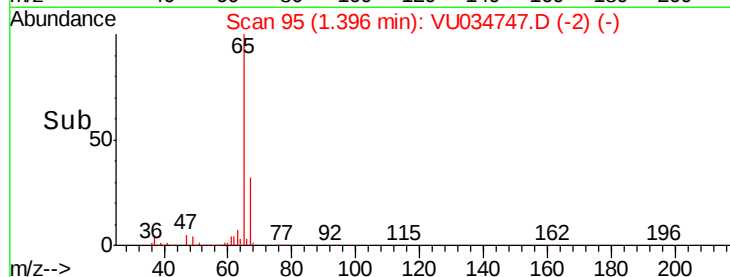
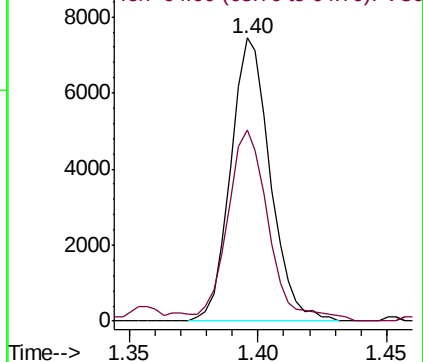
62 100

64 67.4 22.2 41.2#



Abundance Ion 62.00 (61.70 to 62.70): VU034739.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU034739.D (-87) (-)



#13

Acetone

Concen: 104.658 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034747.D

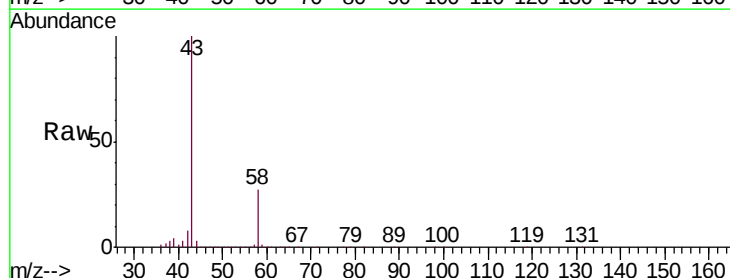
Acq: 23 Sep 2019 20:55

Tgt Ion: 43 Resp: 459577

Ion Ratio Lower Upper

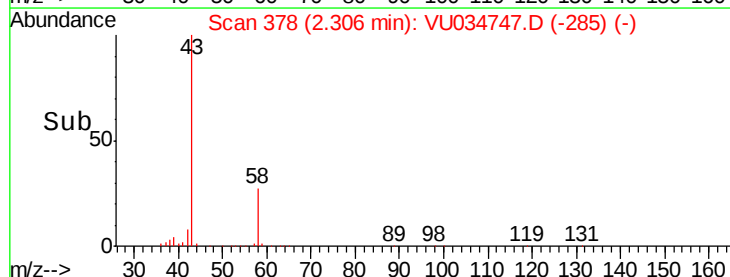
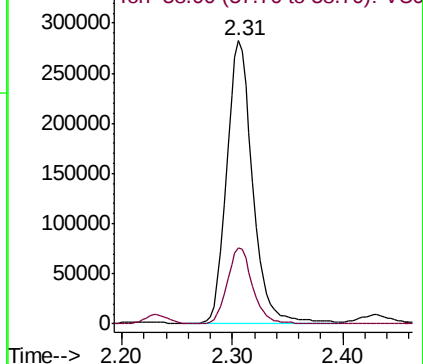
43 100

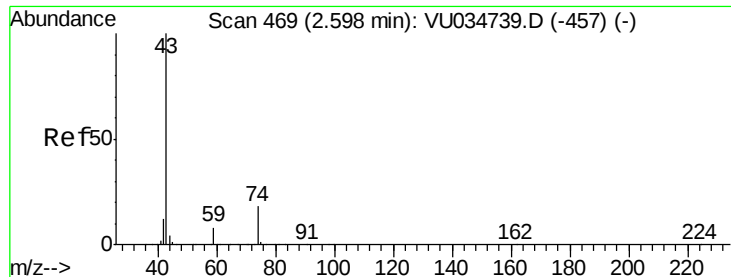
58 26.1 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034739.D (-358) (-)

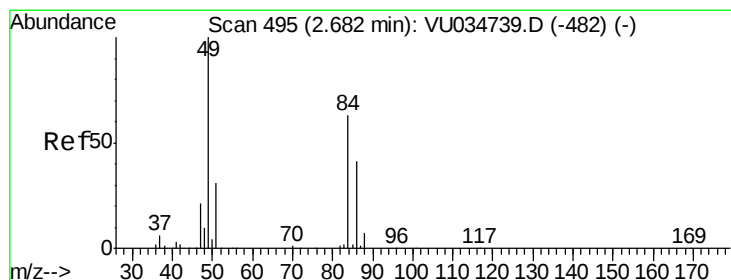
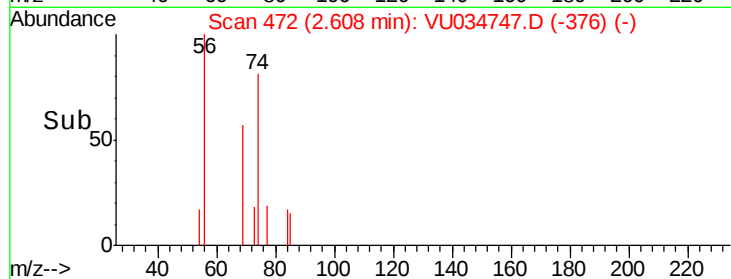
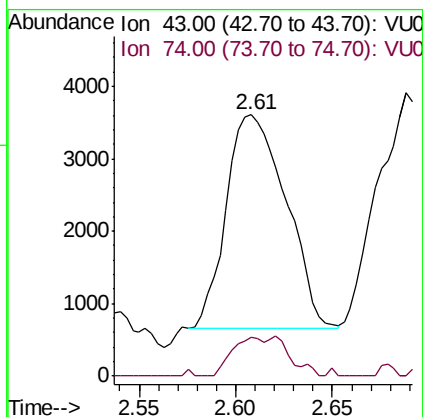
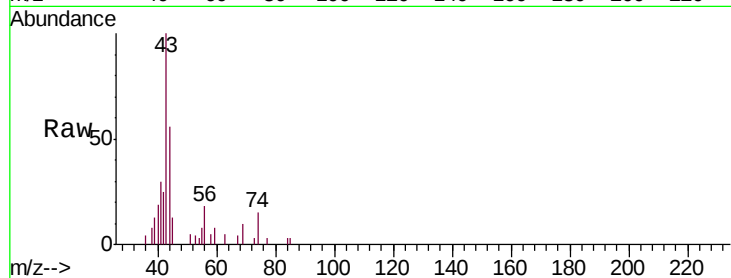




#15
Methyl Acetate
Concen: 1.071 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

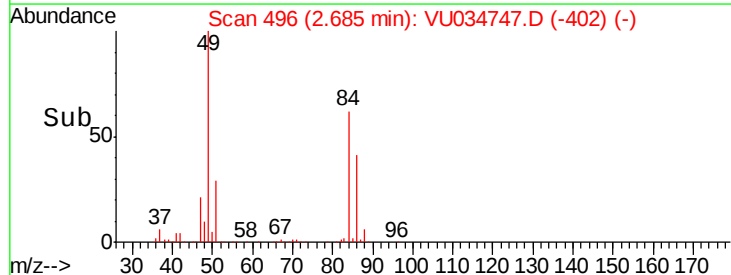
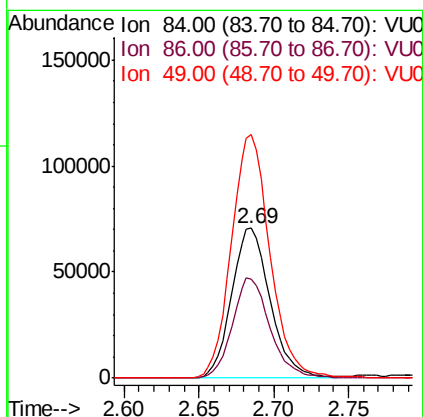
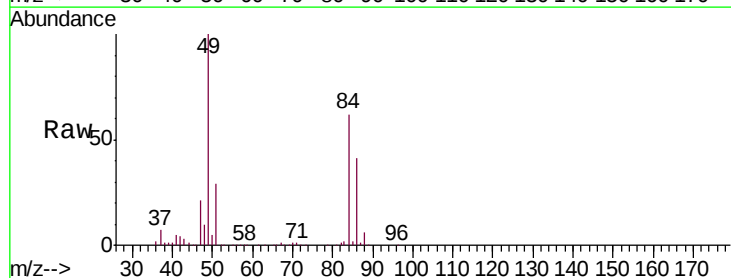
Instrument :
MSVOA_U
ClientSampleId :
BFDG5

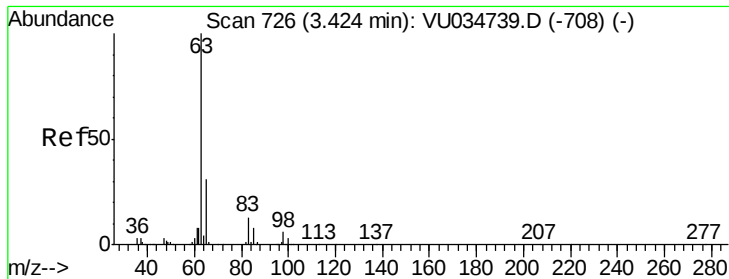
Tgt Ion: 43 Resp: 6285
Ion Ratio Lower Upper
43 100
74 9.8 14.4 21.6#



#16
Methylene chloride
Concen: 31.694 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

Tgt Ion: 84 Resp: 126376
Ion Ratio Lower Upper
84 100
86 66.3 43.0 80.0
49 162.2 109.7 203.7

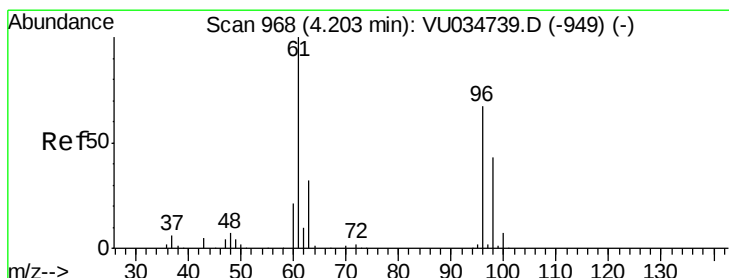
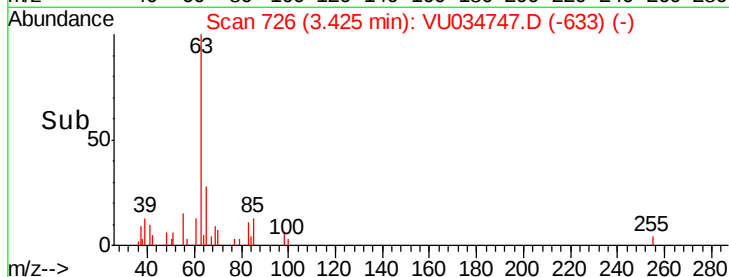
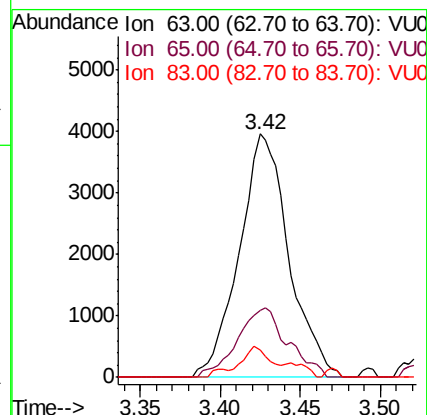
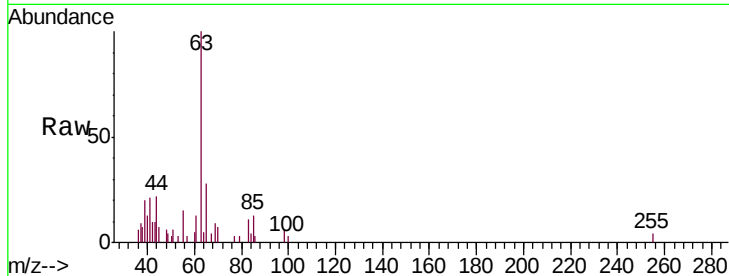




#19
 1,1-Dichloroethane
 Concen: 1.062 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

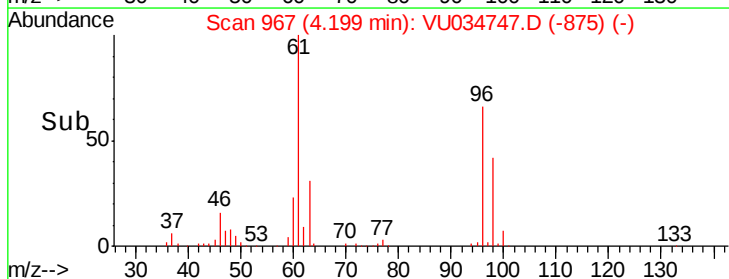
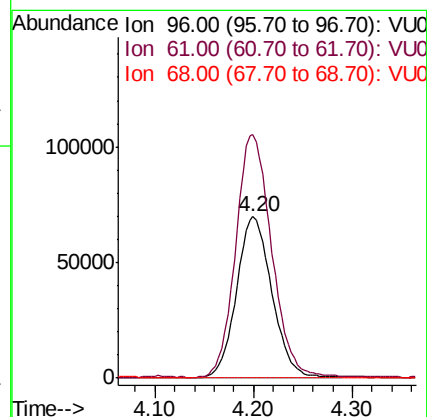
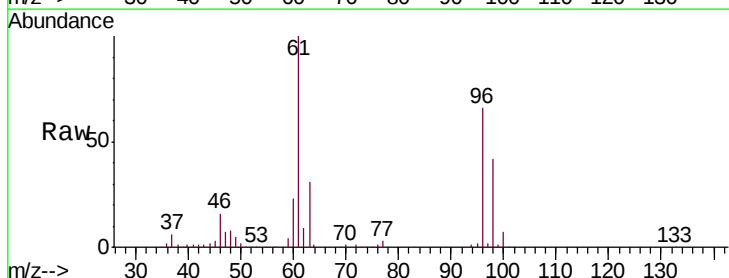
Instrument :
 MSVOA_U
 ClientSampled :
 BFDG5

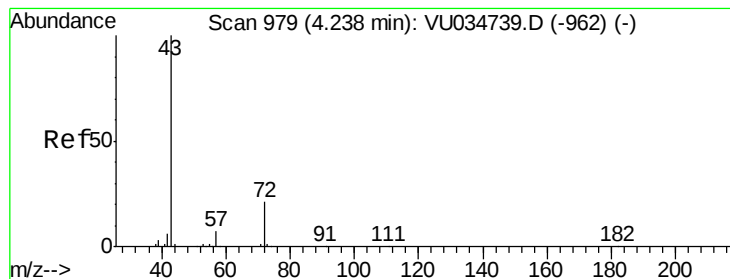
Tgt Ion:	63	Resp:	8386
Ion	Ratio	Lower	Upper
63	100		
65	27.7	22.0	40.8
83	11.2	8.9	16.5



#20
 cis-1,2-Dichloroethene
 Concen: 43.453 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

Tgt Ion:	96	Resp:	174863
Ion	Ratio	Lower	Upper
96	100		
61	151.0	108.8	202.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 21.319 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

Instrument :

MSVOA_U

ClientSampleId :

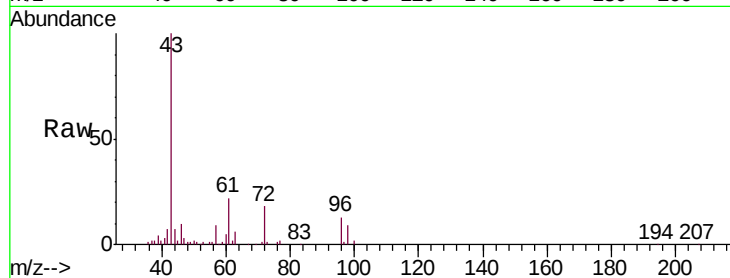
BFDG5

Tgt Ion: 43 Resp: 111375

Ion Ratio Lower Upper

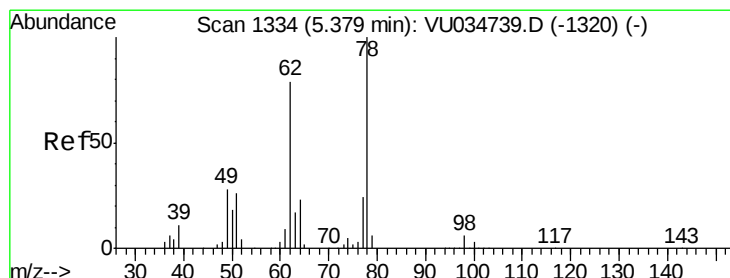
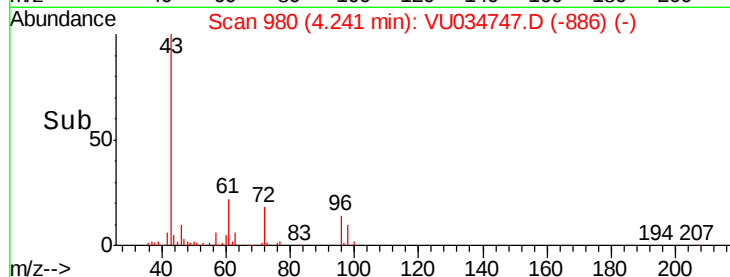
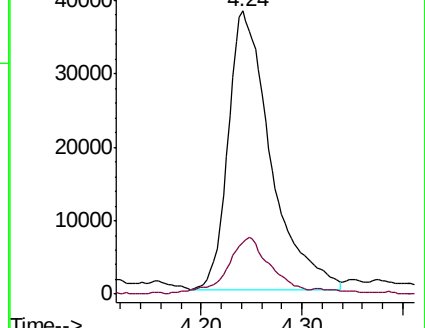
43 100

72 19.7 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU034739.D (-962) (-)



#27

1,2-Dichloroethane

Concen: 3.790 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU034747.D

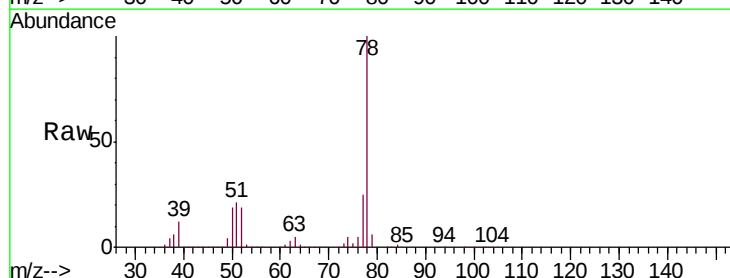
Acq: 23 Sep 2019 20:55

Tgt Ion: 62 Resp: 25455

Ion Ratio Lower Upper

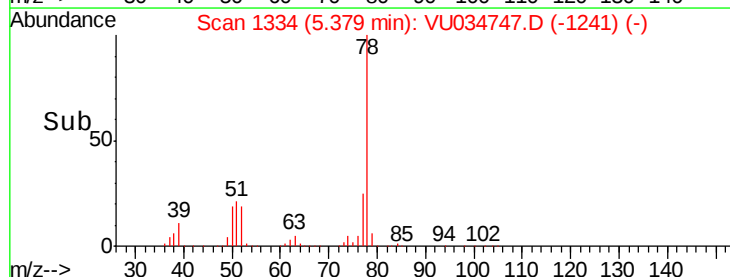
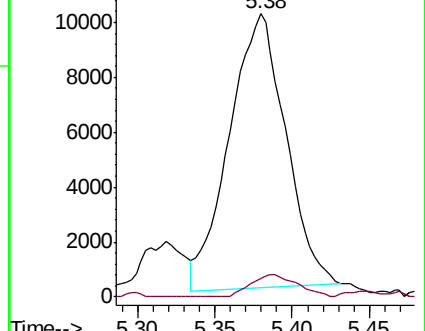
62 100

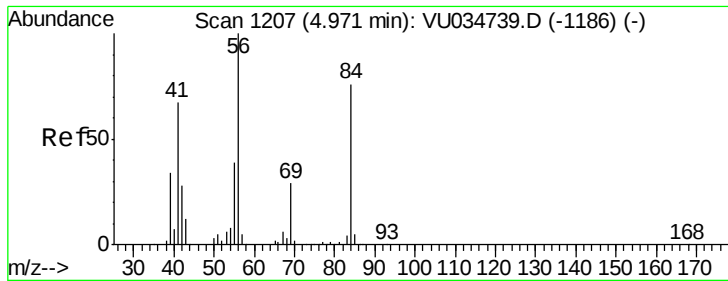
98 6.7 5.3 7.9



Abundance Ion 62.00 (61.70 to 62.70): VU034739.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU034739.D (-1320) (-)

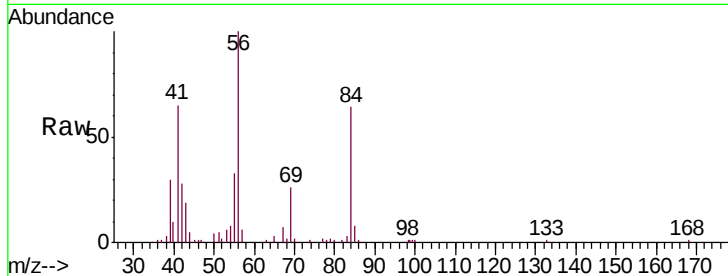




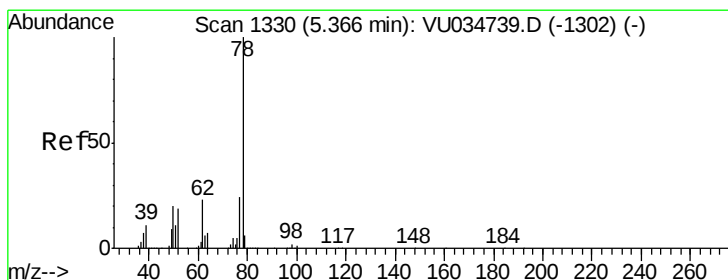
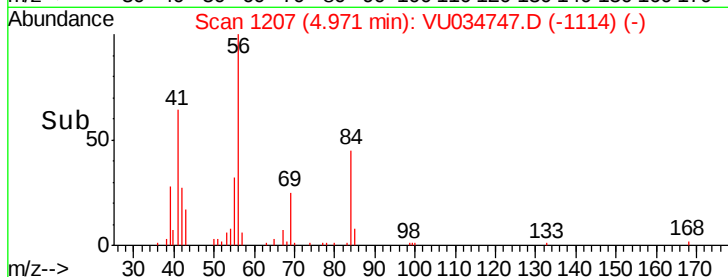
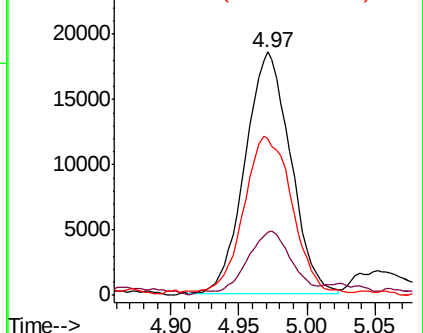
#29
Cyclohexane
Concen: 5.623 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

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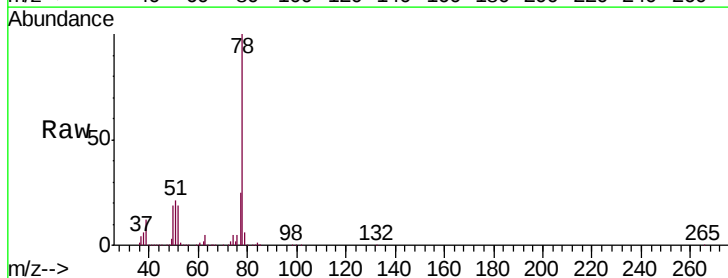
Tgt Ion: 56 Resp: 42838
Ion Ratio Lower Upper
56 100
69 23.4 21.7 32.5
84 66.9 58.8 88.2



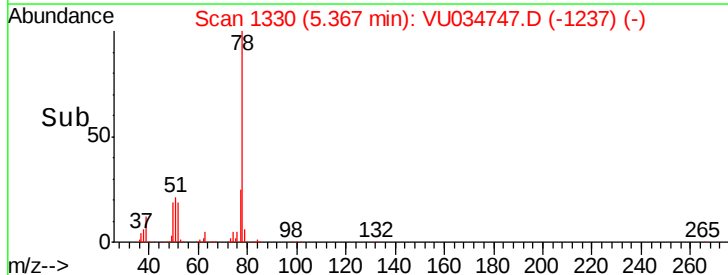
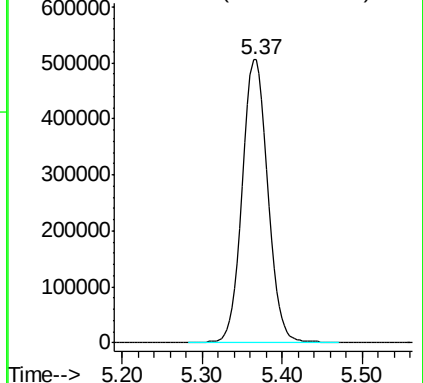
Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

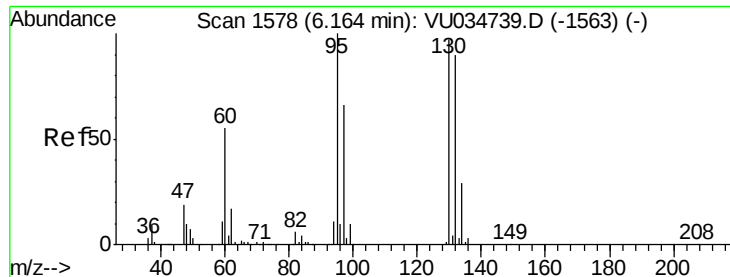


#33
Benzene
Concen: 68.125 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55
Tgt Ion: 78 Resp: 1090498



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 7.436 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

Instrument :

MSVOA_U

ClientSampleId :

BFDG5

Tgt Ion: 95 Resp: 29397

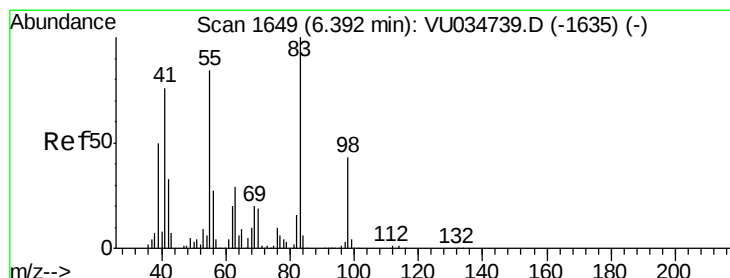
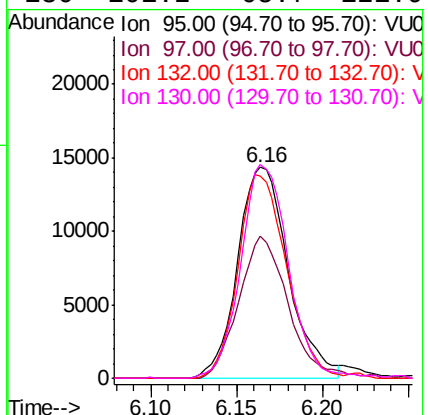
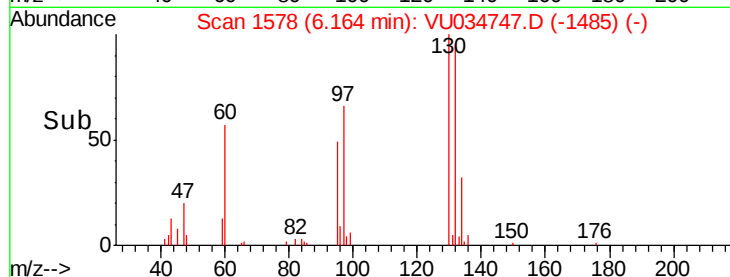
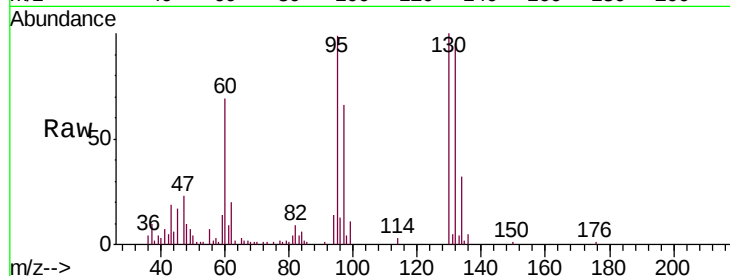
Ion Ratio Lower Upper

95 100

97 67.1 43.7 81.1

132 96.1 61.0 113.2

130 101.2 65.7 121.9



#35

Methylcyclohexane

Concen: 5.618 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

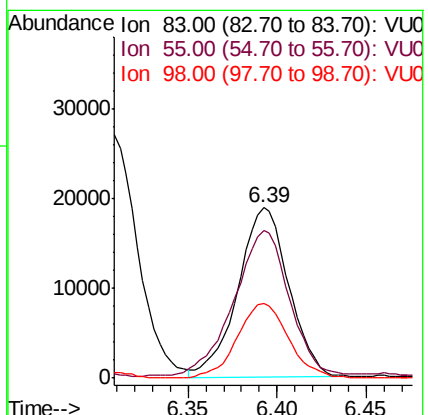
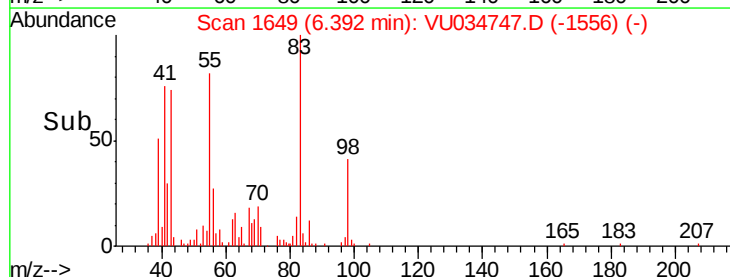
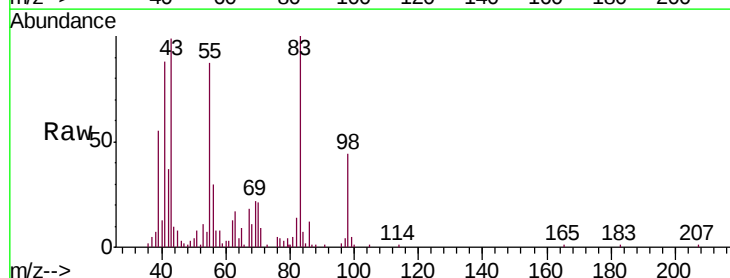
Tgt Ion: 83 Resp: 37690

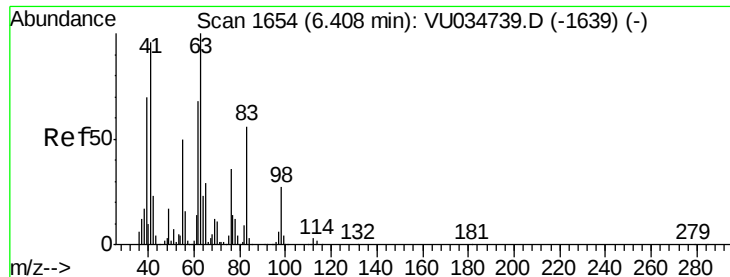
Ion Ratio Lower Upper

83 100

55 94.4 71.6 107.4

98 44.2 35.7 53.5

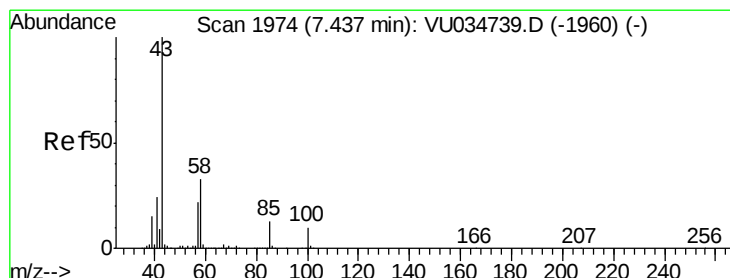
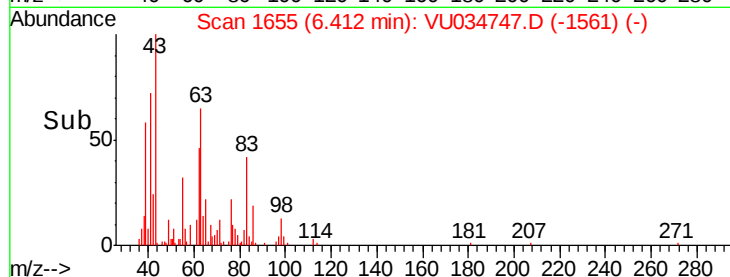
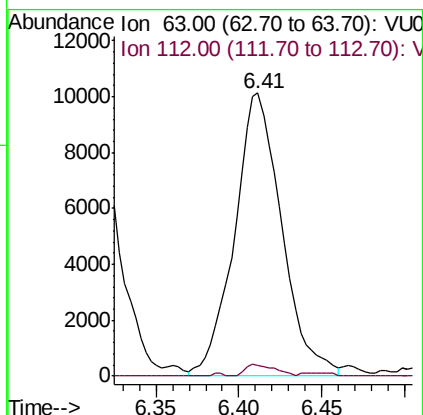
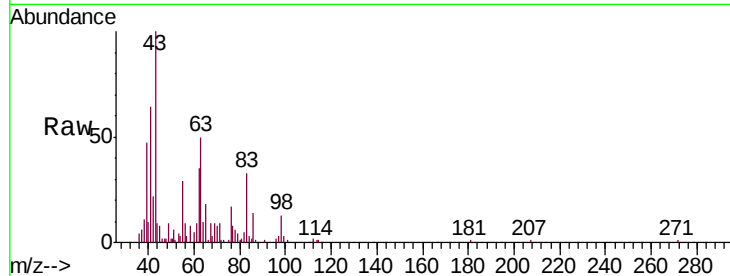




#37
 1,2-Dichloropropane
 Concen: 4.213 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

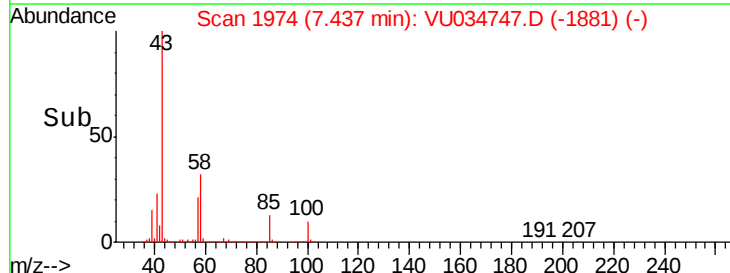
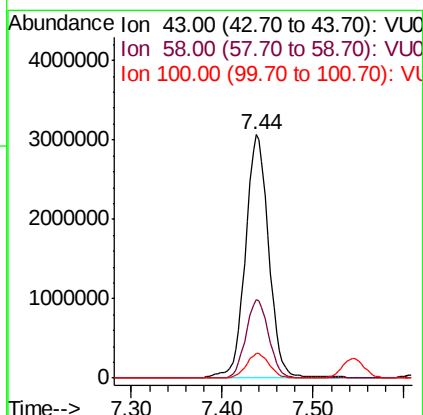
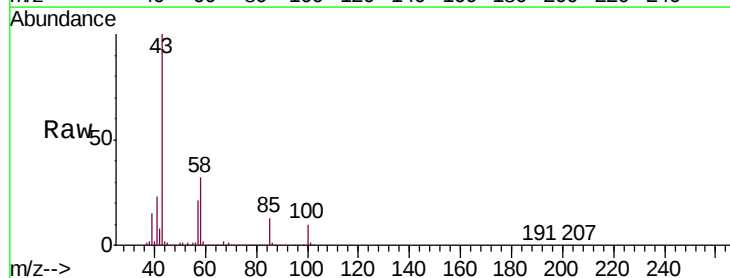
Instrument :
 MSVOA_U
 ClientSampleID :
 BFDG5

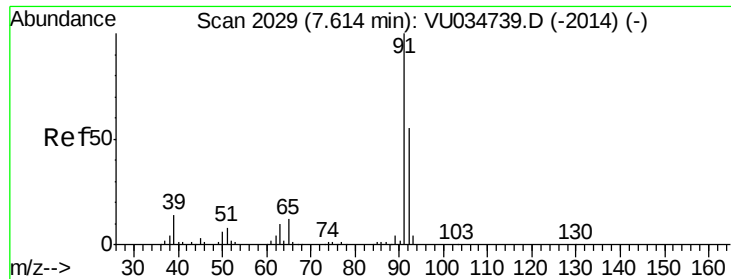
Tgt Ion: 63 Resp: 20080
 Ion Ratio Lower Upper
 63 100
 112 2.5 2.4 3.6



#40
 4-Methyl-2-pentanone
 Concen: 596.805 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

Tgt Ion: 43 Resp: 5430808
 Ion Ratio Lower Upper
 43 100
 58 31.9 25.2 37.8
 100 9.9 7.7 11.5





#42

Toluene

Concen: 507.110 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

Instrument :

MSVOA_U

ClientSampled :

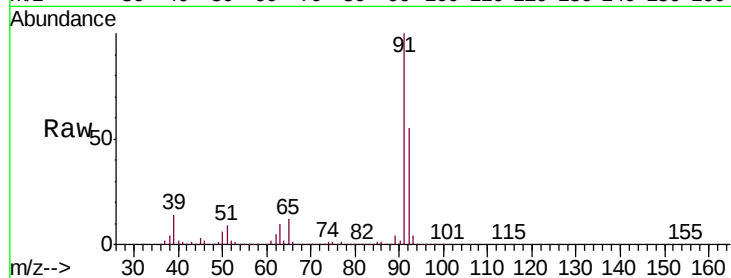
BFDG5

Tgt Ion: 91 Resp: 8772733

Ion Ratio Lower Upper

91 100

92 55.4 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU034739.D (-2014) (-)

6000000

5000000

4000000

3000000

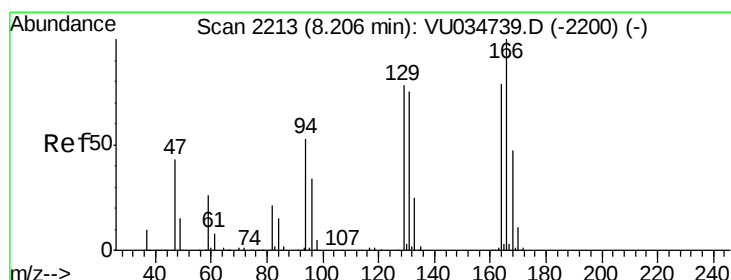
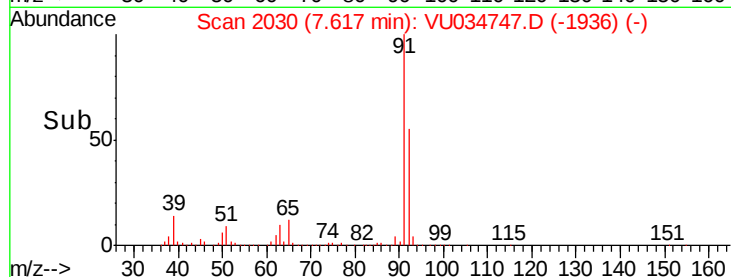
2000000

1000000

0

7.55 7.60 7.65 7.70

Time-->



#46

Tetrachloroethene

Concen: 6.342 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

Tgt Ion: 164 Resp: 17637

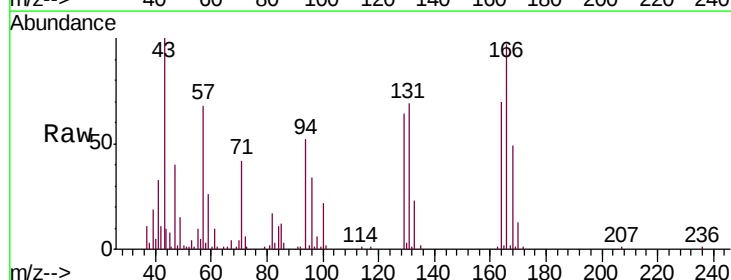
Ion Ratio Lower Upper

164 100

129 91.5 71.9 133.5

131 98.2 66.3 123.1

166 137.7 93.4 173.6



Abundance Ion 164.00 (163.70 to 164.70): VU034739.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034739.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034739.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034739.D (-2200) (-)

20000

15000

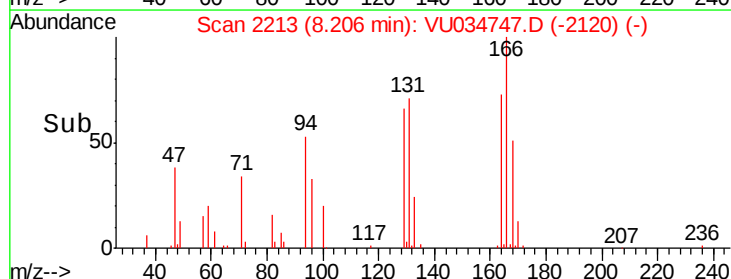
10000

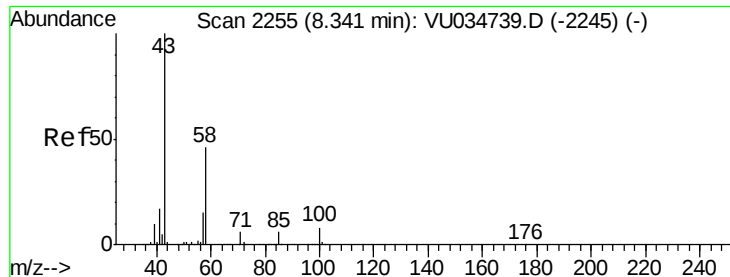
5000

0

8.15 8.20 8.25

Time-->

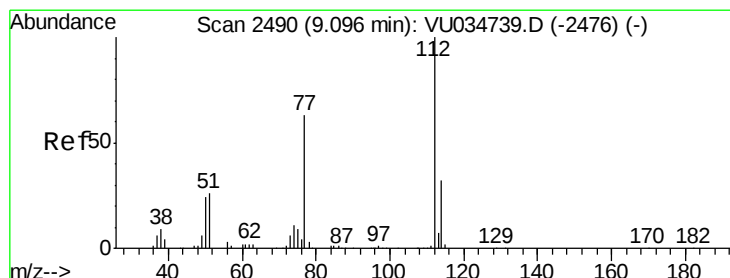
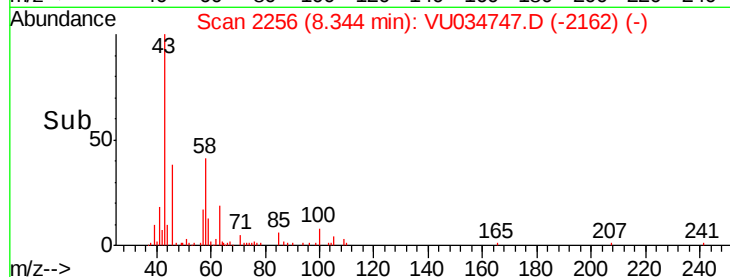
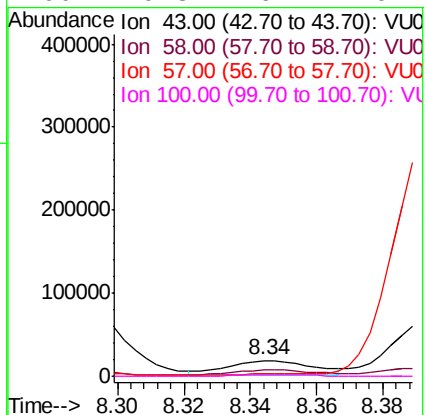
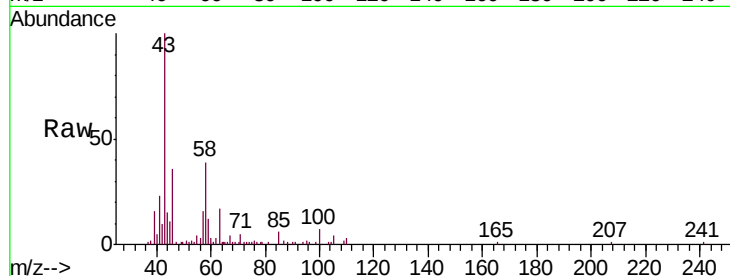




#48
2-Hexanone
Concen: 4.179 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

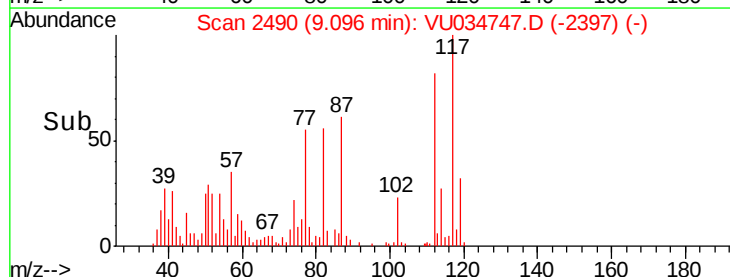
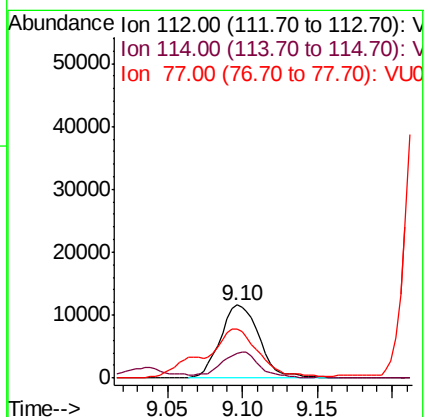
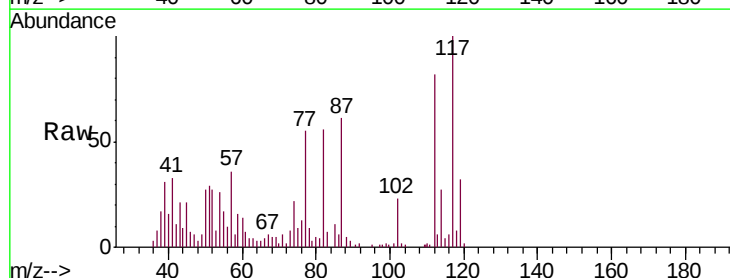
Instrument :
MSVOA_U
ClientSampleId :
BFDG5

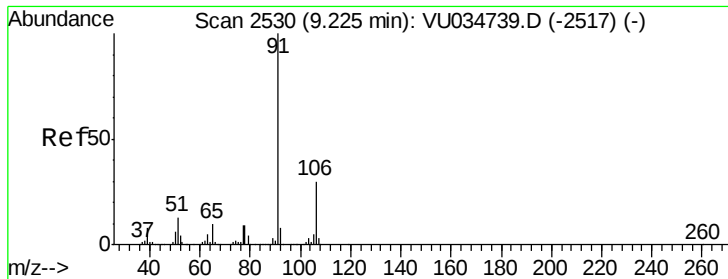
Tgt Ion:	43	Resp:	29702
Ion	Ratio	Lower	Upper
43	100		
58	49.7	35.3	52.9
57	9.2	12.1	18.1#
100	9.3	6.2	9.4



#51
Chlorobenzene
Concen: 2.007 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

Tgt Ion:	112	Resp:	21111
Ion	Ratio	Lower	Upper
112	100		
114	33.1	22.8	42.4
77	67.8	51.5	77.3





#52

Ethylbenzene

Concen: 99.665 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034747.D

Acq: 23 Sep 2019 20:55

Instrument :

MSVOA_U

ClientSampleId :

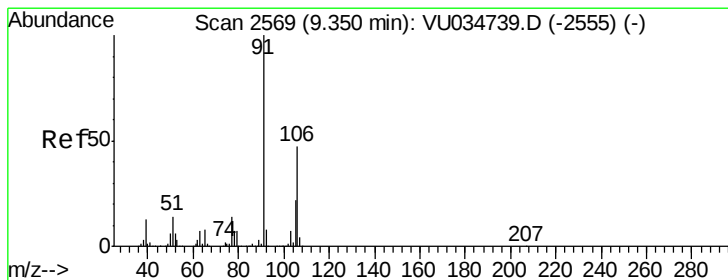
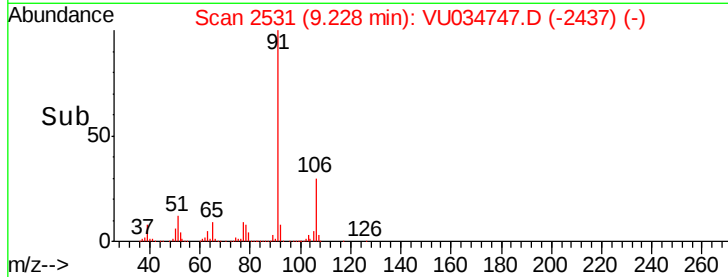
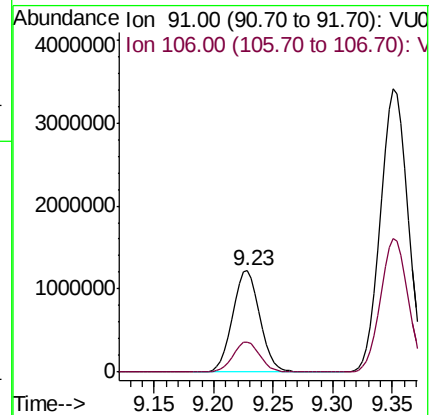
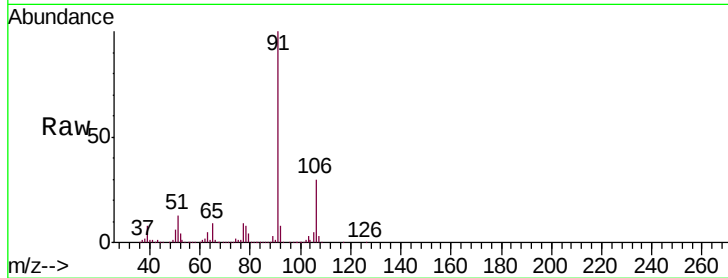
BFDG5

Tgt Ion: 91 Resp: 1941536

Ion Ratio Lower Upper

91 100

106 29.9 20.6 38.4



#53

m,p-Xylene

Concen: 376.340 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034747.D

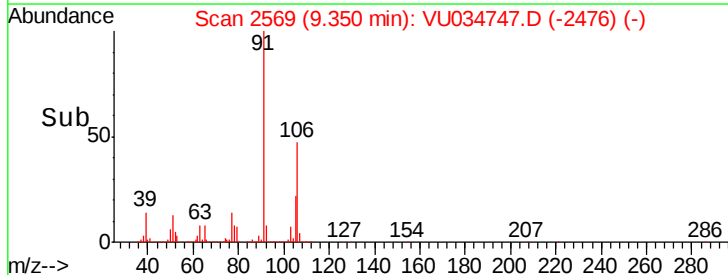
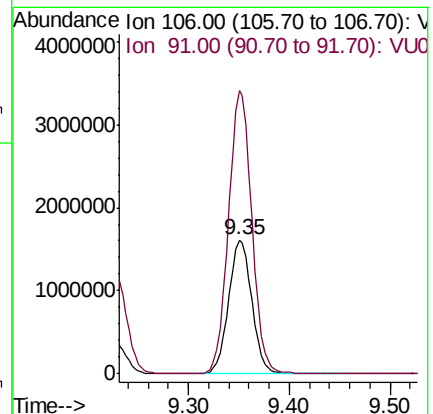
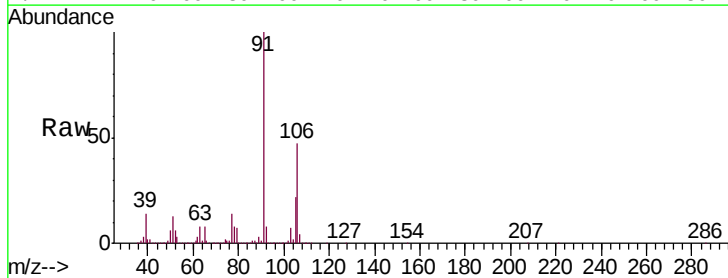
Acq: 23 Sep 2019 20:55

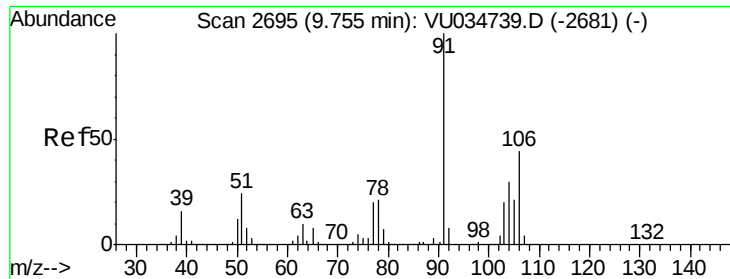
Tgt Ion: 106 Resp: 2596725

Ion Ratio Lower Upper

106 100

91 211.1 146.9 272.7

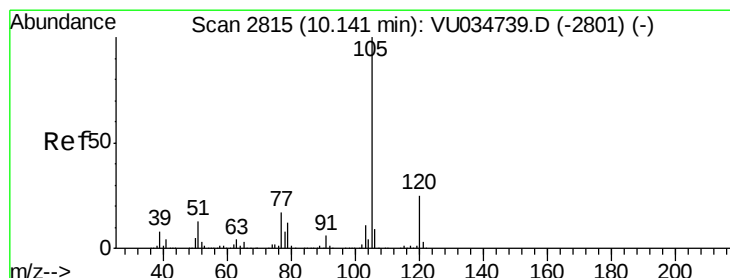
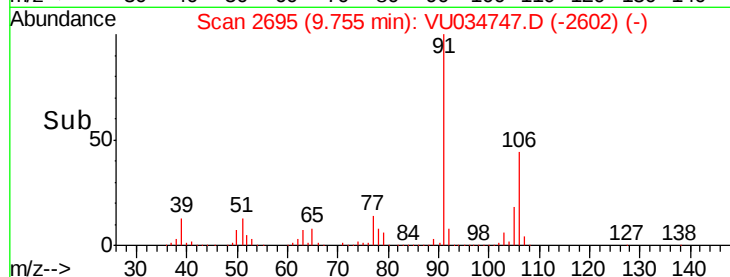
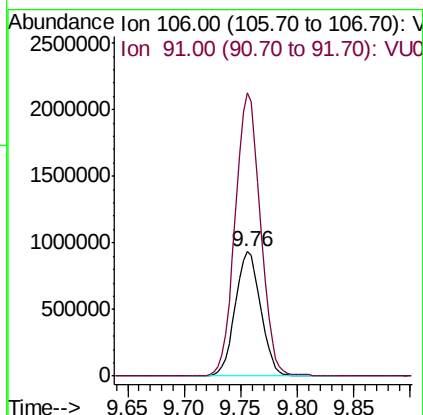
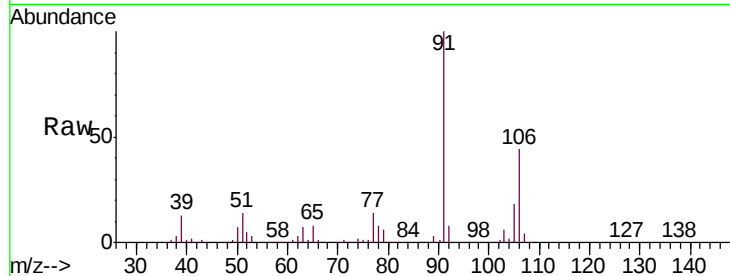




#54
o-xylene
Concen: 215.360 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

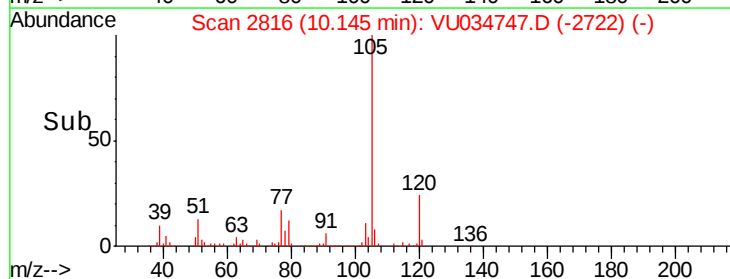
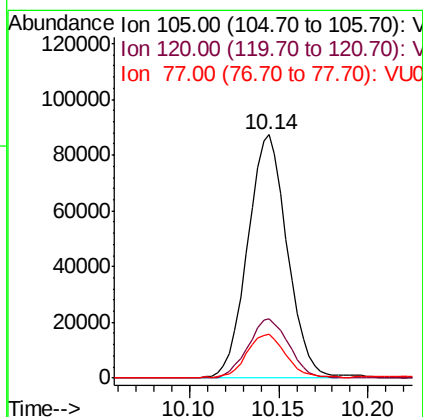
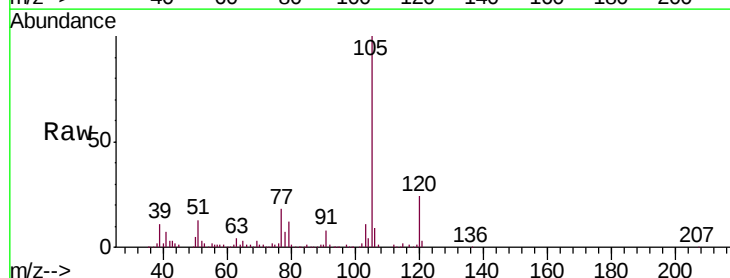
Instrument :
MSVOA_U
ClientSampleId :
BFDG5

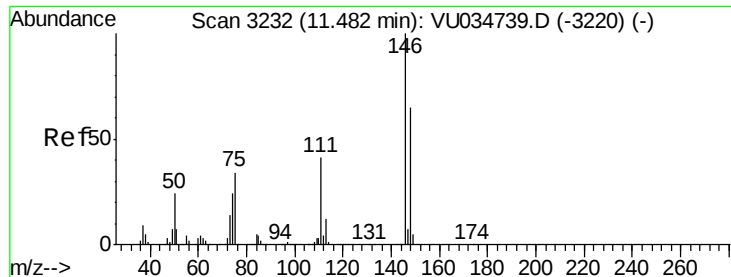
Tgt Ion:106 Resp: 1469754
Ion Ratio Lower Upper
106 100
91 228.2 155.6 289.0



#56
Isopropylbenzene
Concen: 7.369 ug/L
RT: 10.14 min Scan# 2816
Delta R.T. 0.00 min
Lab File: VU034747.D
Acq: 23 Sep 2019 20:55

Tgt Ion:105 Resp: 135598
Ion Ratio Lower Upper
105 100
120 25.0 20.4 30.6
77 17.2 14.2 21.4

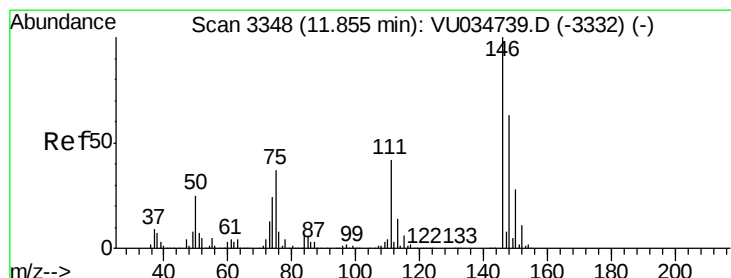
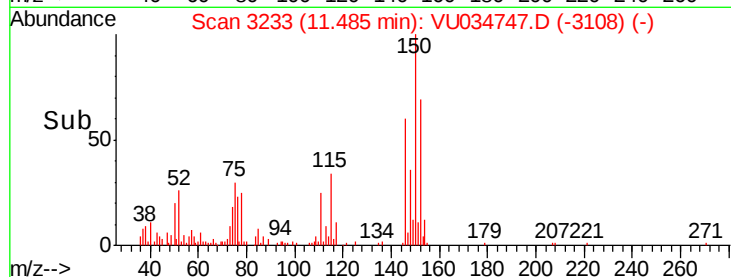
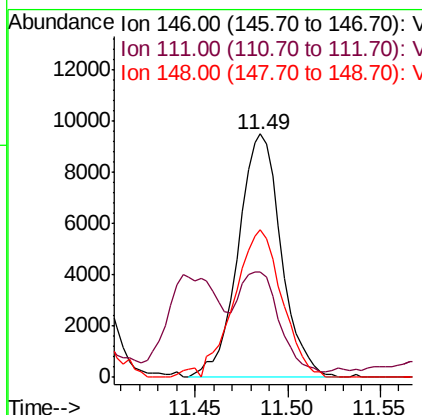
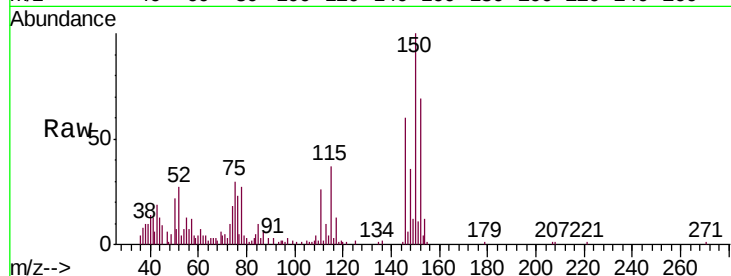




#63
 1,4-Dichlorobenzene
 Concen: 1.876 ug/L
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

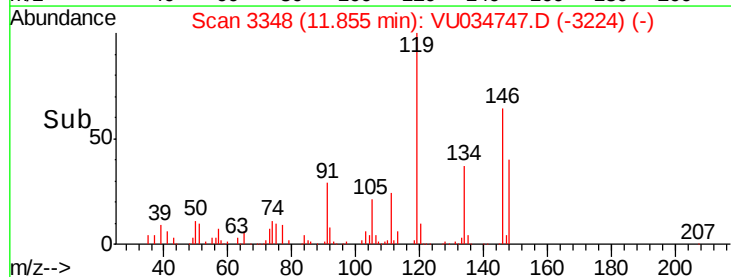
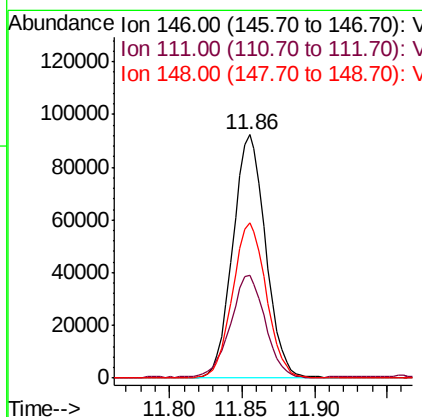
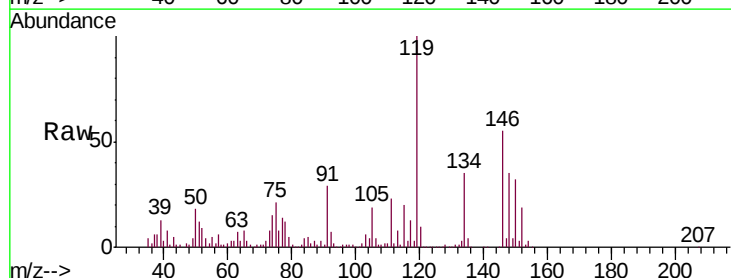
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG5

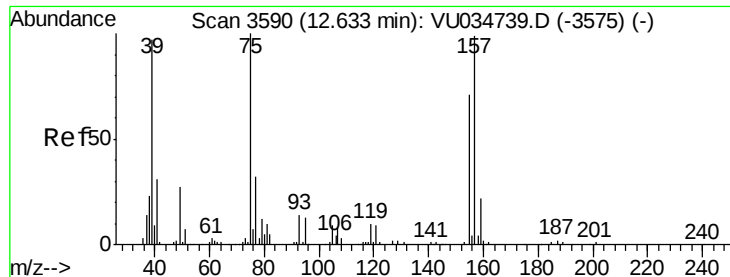
Tgt Ion:146 Resp: 15318
 Ion Ratio Lower Upper
 146 100
 111 43.4 29.5 54.9
 148 60.4 44.4 82.4



#65
 1,2-Dichlorobenzene
 Concen: 17.922 ug/L
 RT: 11.86 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

Tgt Ion:146 Resp: 145150
 Ion Ratio Lower Upper
 146 100
 111 42.2 35.2 52.8
 148 63.6 53.0 79.6

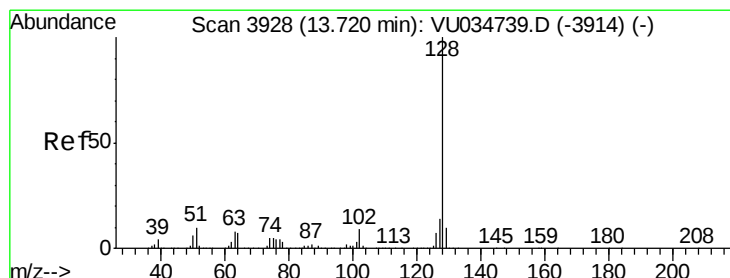
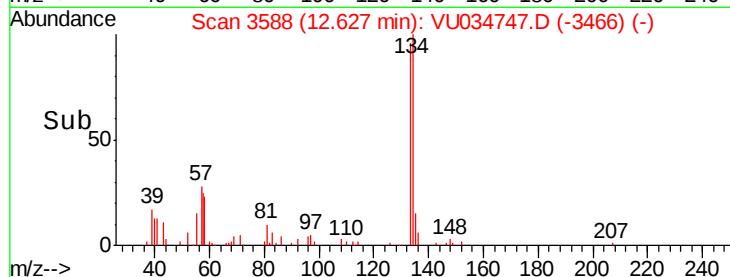
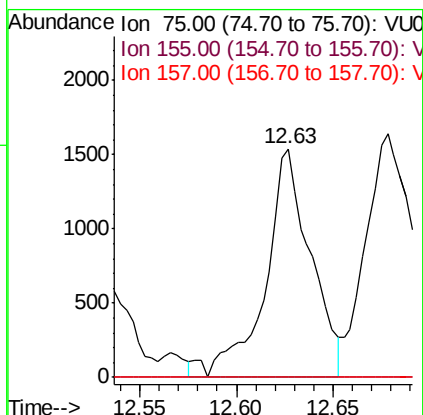
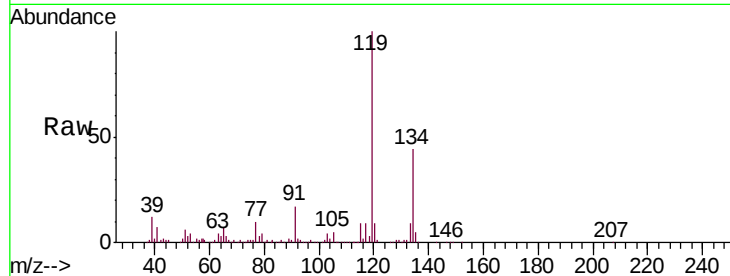




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.466 ug/L
 RT: 12.63 min Scan# 3588
 Delta R.T. -0.01 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG5

Tgt Ion: 75 Resp: 2523
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.7 82.1#
 157 0.0 69.9 104.9#



#69
 Naphthalene
 Concen: 172.935 ug/L
 RT: 13.72 min Scan# 3928
 Delta R.T. 0.00 min
 Lab File: VU034747.D
 Acq: 23 Sep 2019 20:55

Tgt Ion: 128 Resp: 2528422
 Ion Ratio Lower Upper
 128 100
 127 13.5 10.8 16.2
 129 11.0 8.6 12.8

