

Data File : VU034676.D
Acq On : 20 Sep 2019 02:53
Operator : JC/SP
Sample : K4895-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDF6

Quant Time: Sep 20 04:11:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	490987	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	468146	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	231546	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	220817	43.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.86%
7) Chloroethane-d5	1.67	69	178258	45.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.78%
11) 1,1-Dichloroethene-d2	2.26	63	299399	35.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.34%
21) 2-Butanone-d5	4.15	46	394857	102.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.50%
24) Chloroform-d	4.62	84	316871	43.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.72%
26) 1,2-Dichloroethane-d4	5.29	65	258335	48.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.18%
32) Benzene-d6	5.32	84	698067	48.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.22%
36) 1,2-Dichloropropane-d6	6.31	67	246976	48.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.40%
41) Toluene-d8	7.54	98	674060	48.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.66%
43) trans-1,3-Dichloropropene-	7.83	79	114014	46.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.88%
47) 2-Hexanone-d5	8.29	63	261965	102.84	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.84%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	266366	37.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	75.70%
64) 1,2-Dichlorobenzene-d4	11.84	152	237988	49.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.04%

Target Compounds

					Qvalue
12) 1,1-Dichloroethene	2.26	96	2661	0.828 ug/L #	1
13) Acetone	2.31	43	22766	5.080 ug/L	93
16) Methylene chloride	2.69	84	4580	1.126 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	4737	1.349 ug/L	77
20) cis-1,2-Dichloroethene	4.20	96	11220	2.732 ug/L	95
25) Chloroform	4.65	83	38068	4.798 ug/L	100
29) Cyclohexane	4.97	56	6713	0.869 ug/L #	63
33) Benzene	5.37	78	88067	5.424 ug/L	100
34) Trichloroethene	6.16	95	31674	7.899 ug/L	97
35) Methylcyclohexane	6.39	83	14370	2.112 ug/L	96
40) 4-Methyl-2-pentanone	7.40	43	95248	10.319 ug/L #	58
42) Toluene	7.61	91	1666596	94.978 ug/L	98
46) Tetrachloroethene	8.21	164	59114	20.958 ug/L	92
51) Chlorobenzene	9.10	112	14958	1.402 ug/L	95
52) Ethylbenzene	9.23	91	732398	37.065 ug/L	99
53) m,p-Xylene	9.35	106	1376445	196.671 ug/L	97
54) o-xylene	9.76	106	999897	144.445 ug/L	95

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Quant Title : VOC Analysis
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Response via : Initial Calibration

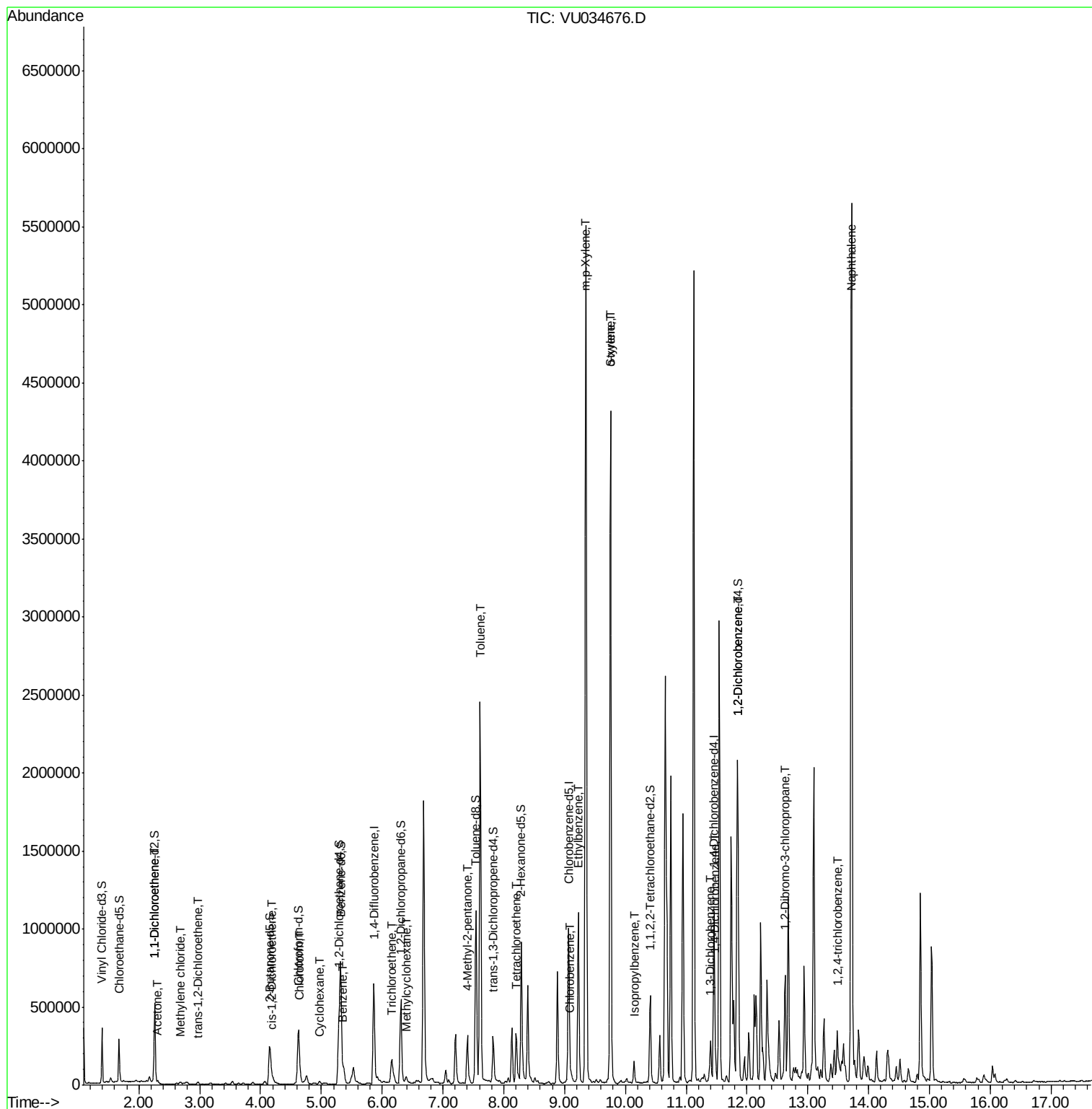
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.76	104	59496	5.078	ug/L #	1
56) Isopropylbenzene	10.14	105	84403	4.522	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	18313	2.284	ug/L	91
63) 1,4-Dichlorobenzene	11.48	146	36496	4.468	ug/L	95
65) 1,2-Dichlorobenzene	11.85	146	250050	30.863	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.62	75	3096	1.798	ug/L #	10
68) 1,2,4-trichlorobenzene	13.48	180	9213	2.181	ug/L #	59
69) Naphthalene	13.72	128	3983867	272.382	ug/L	100

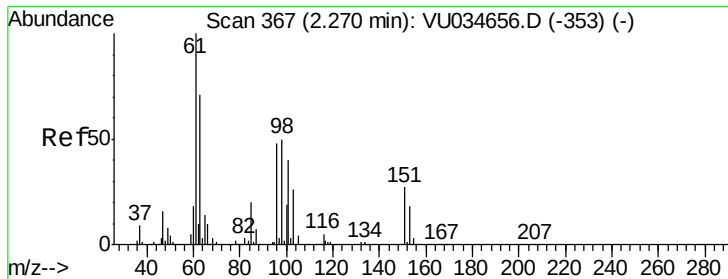
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.828 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

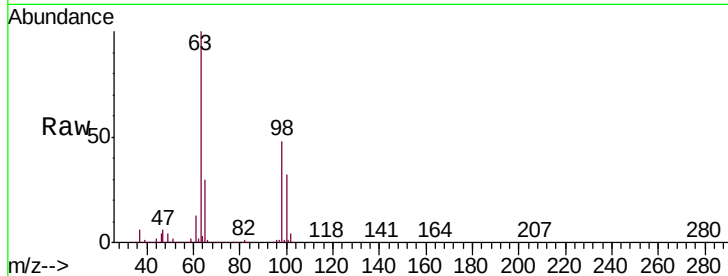
Tgt Ion: 96 Resp: 2661

Ion Ratio Lower Upper

96 100

61 1471.6 153.2 284.4#

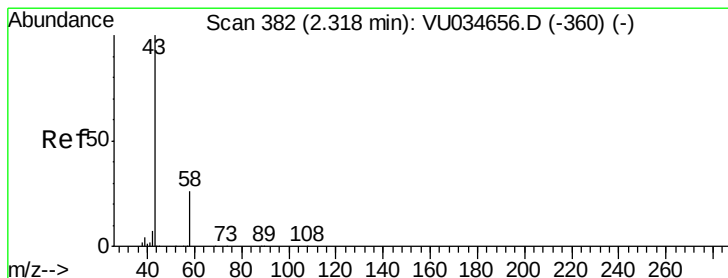
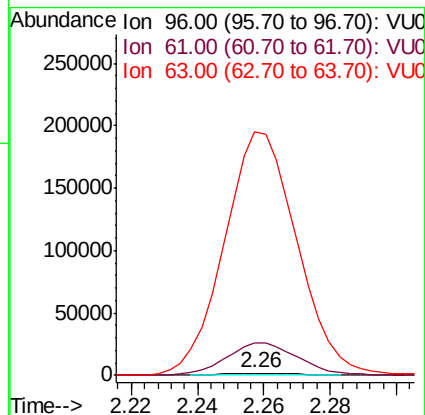
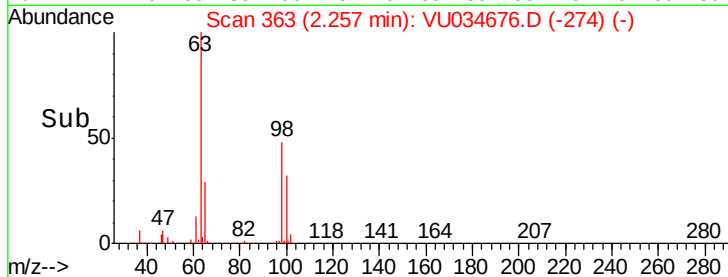
63 11186.2 113.8 211.3#



Abundance Ion 96.00 (95.70 to 96.70): VU034676.D (-274) (-)

Ion 61.00 (60.70 to 61.70): VU034676.D (-274) (-)

Ion 63.00 (62.70 to 63.70): VU034676.D (-274) (-)



#13

Acetone

Concen: 5.080 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VU034676.D

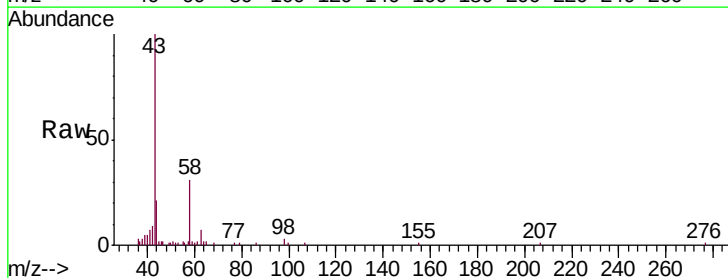
Acq: 20 Sep 2019 02:53

Tgt Ion: 43 Resp: 22766

Ion Ratio Lower Upper

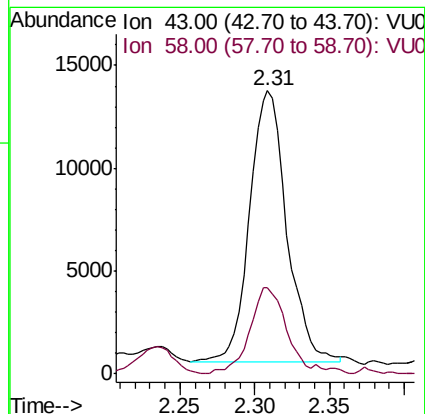
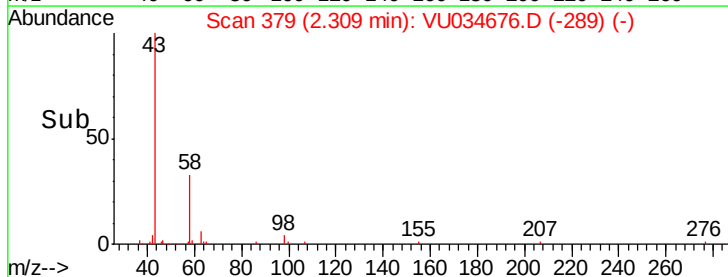
43 100

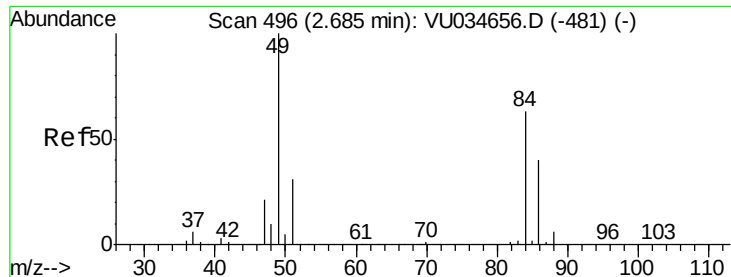
58 30.5 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034676.D (-289) (-)

Ion 58.00 (57.70 to 58.70): VU034676.D (-289) (-)

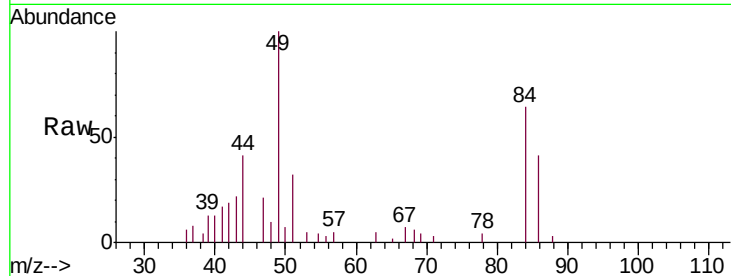




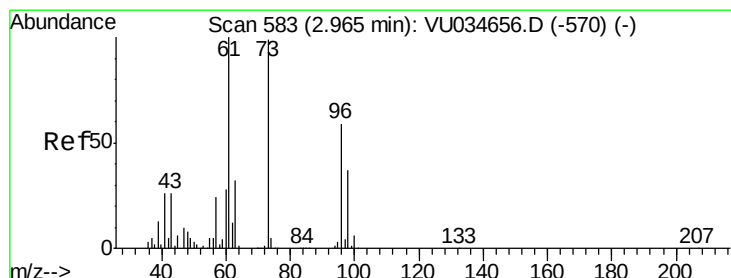
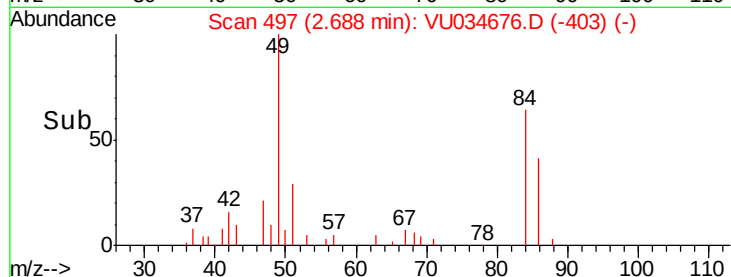
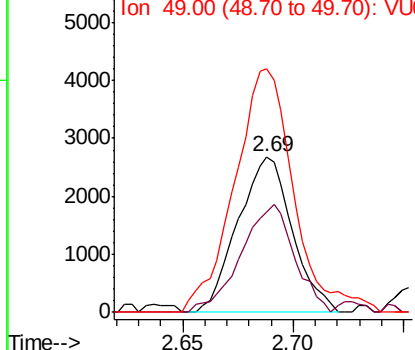
#16
Methylene chloride
Concen: 1.126 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Instrument :
MSVOA_U
ClientSampled :
BPDF6

Tgt Ion: 84 Resp: 4580
Ion Ratio Lower Upper
84 100
86 64.5 43.0 80.0
49 156.7 109.7 203.7

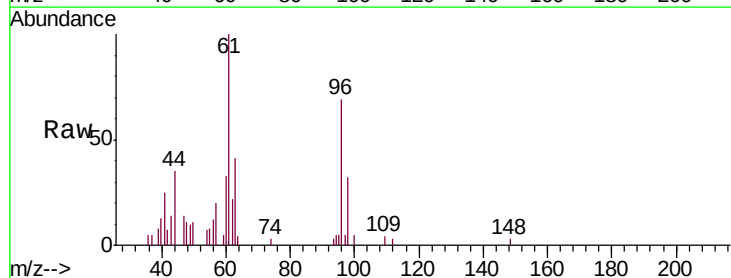


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

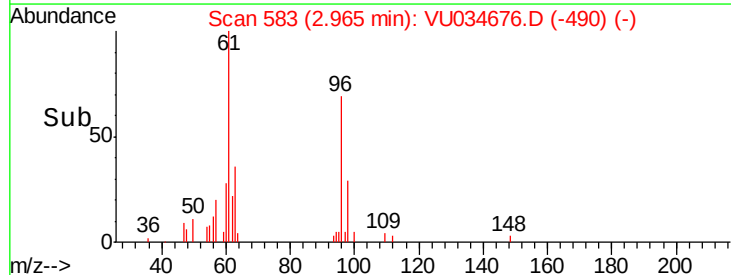
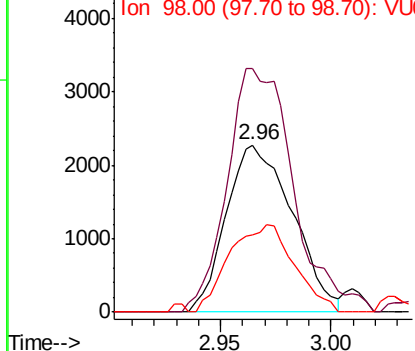


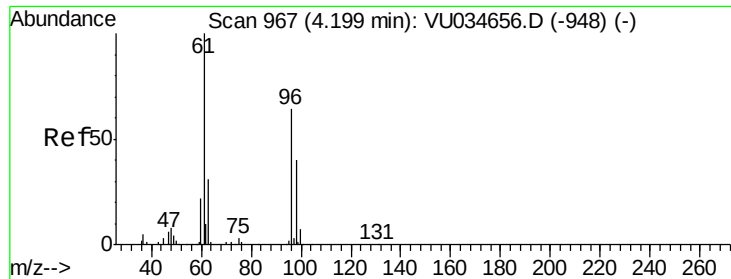
#17
trans-1,2-Dichloroethene
Concen: 1.349 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Tgt Ion: 96 Resp: 4737
Ion Ratio Lower Upper
96 100
61 145.7 124.0 230.4
98 46.4 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

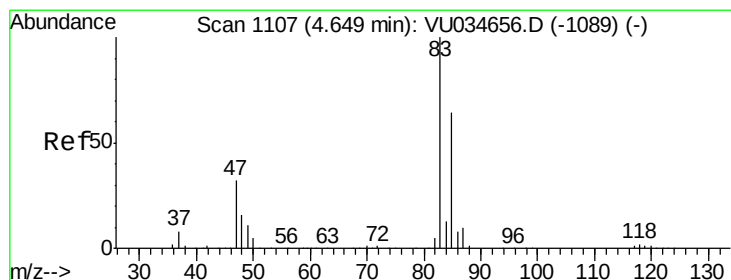
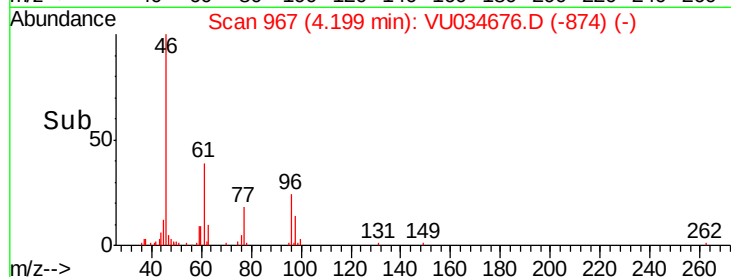
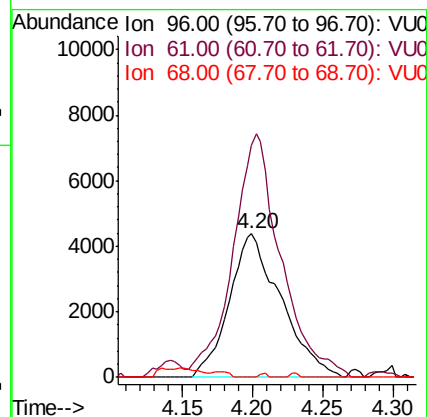
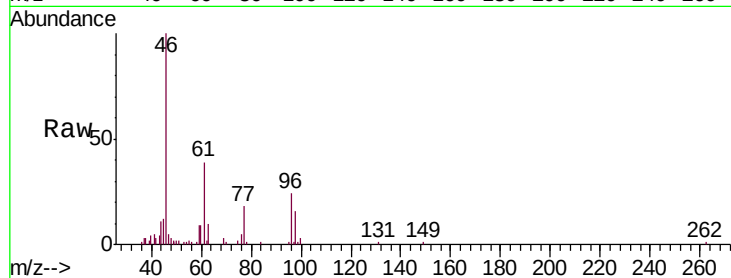




#20
 cis-1,2-Dichloroethene
 Concen: 2.732 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

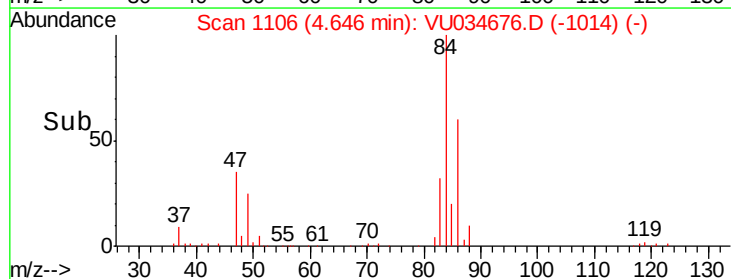
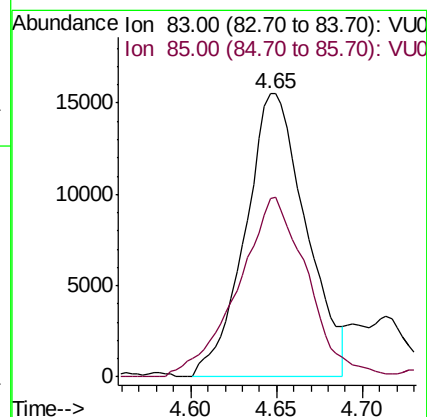
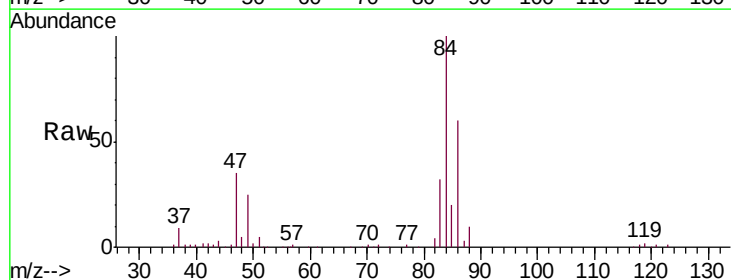
Instrument :
 MSVOA_U
 ClientSampled :
 BPDF6

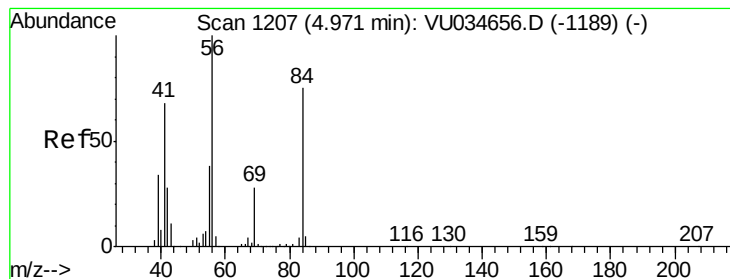
Tgt Ion: 96 Resp: 11220
 Ion Ratio Lower Upper
 96 100
 61 161.5 108.8 202.2
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 4.798 ug/L
 RT: 4.65 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

Tgt Ion: 83 Resp: 38068
 Ion Ratio Lower Upper
 83 100
 85 63.1 44.0 81.6





#29

Cyclohexane

Concen: 0.869 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

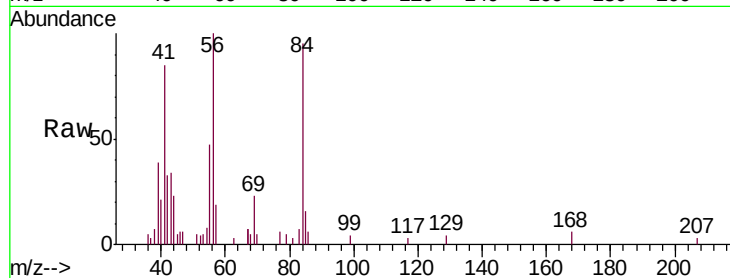
Tgt Ion: 56 Resp: 6713

Ion Ratio Lower Upper

56 100

69 11.9 21.7 32.5#

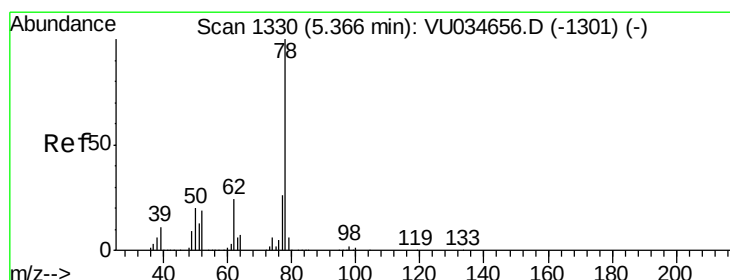
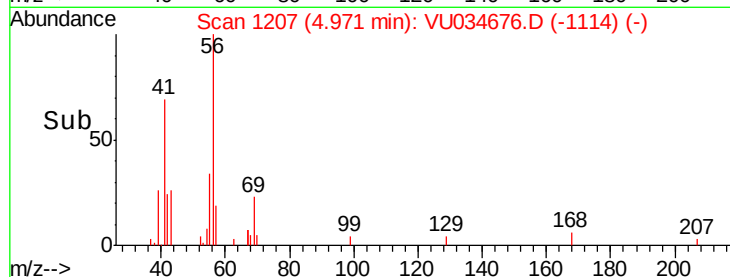
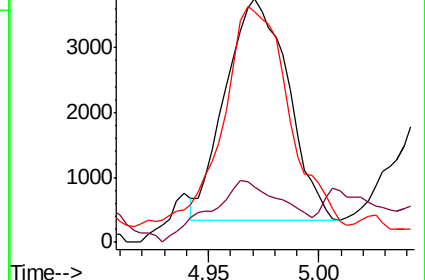
84 106.6 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VU034676.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU034676.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU034676.D (-1189) (-)



#33

Benzene

Concen: 5.424 ug/L

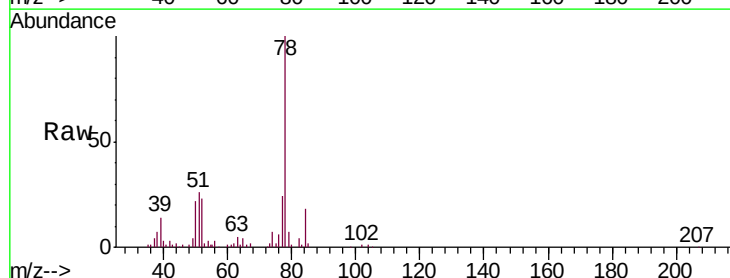
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

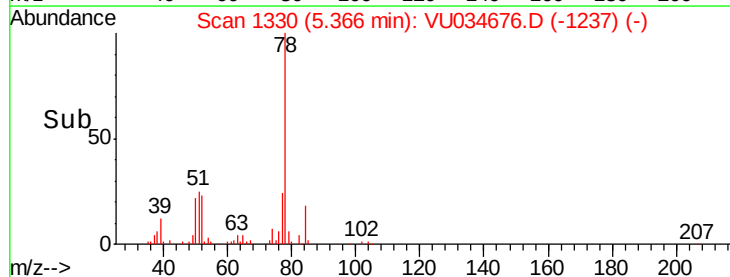
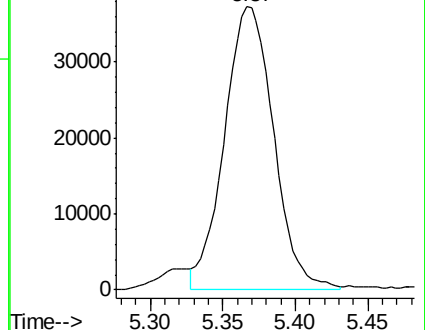
Tgt Ion: 78 Resp: 88067

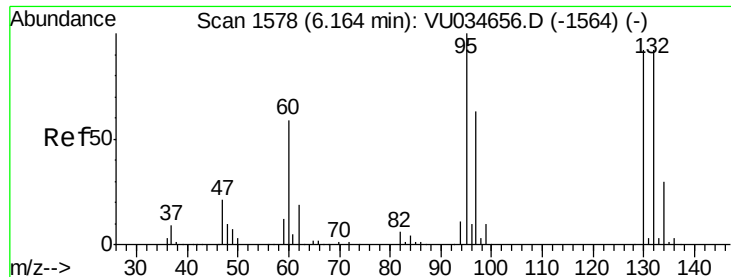


Abundance Ion 78.00 (77.70 to 78.70): VU034676.D (-1237) (-)

Ion 78.00 (77.70 to 78.70): VU034676.D (-1237) (-)

Ion 78.00 (77.70 to 78.70): VU034676.D (-1237) (-)

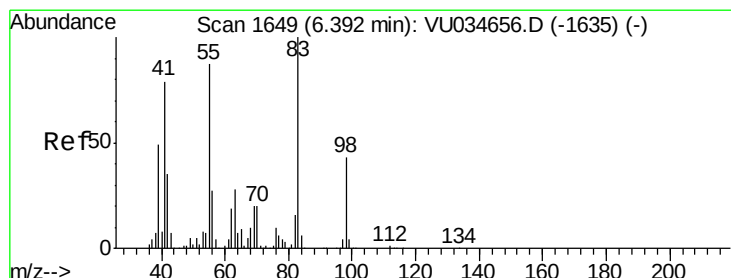
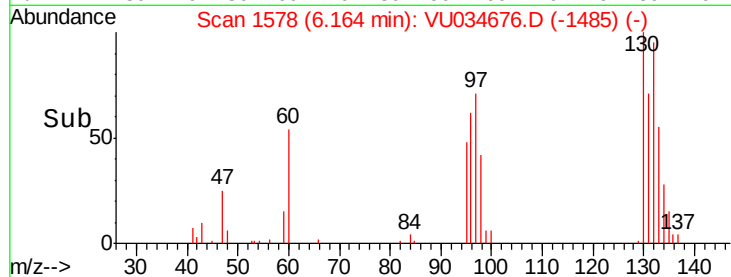
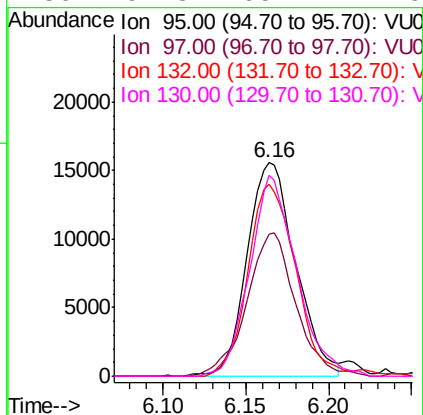
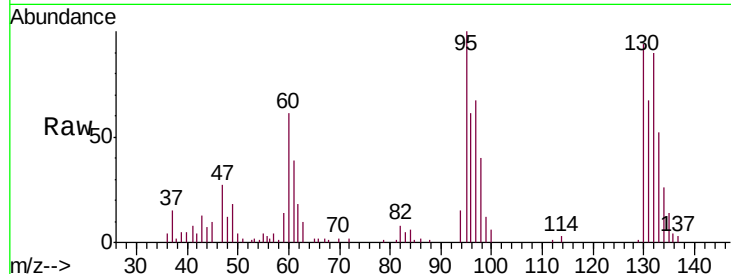




#34
 Trichloroethene
 Concen: 7.899 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

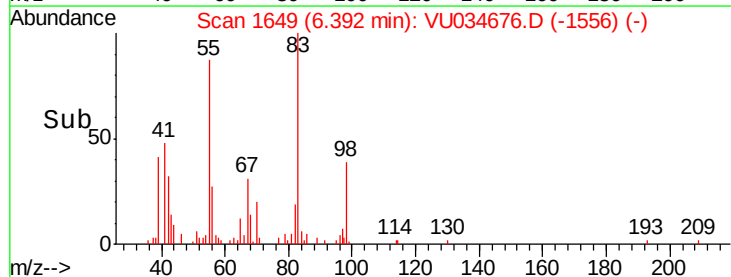
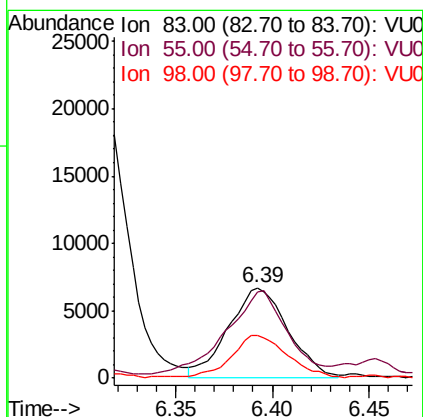
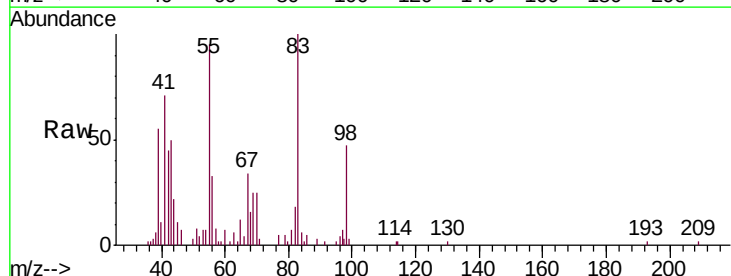
Instrument :
 MSVOA_U
 ClientSampled :
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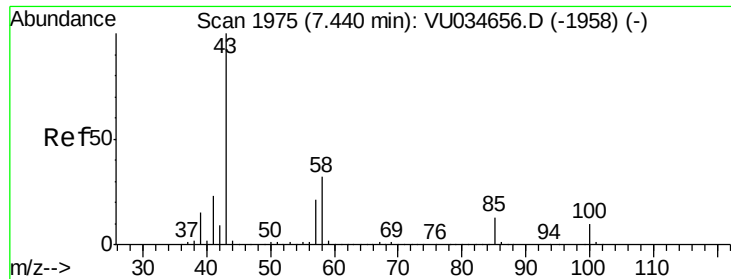
Tgt Ion: 95 Resp: 31674
 Ion Ratio Lower Upper
 95 100
 97 66.6 43.7 81.1
 132 89.8 61.0 113.2
 130 94.3 65.7 121.9



#35
 Methylcyclohexane
 Concen: 2.112 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

Tgt Ion: 83 Resp: 14370
 Ion Ratio Lower Upper
 83 100
 55 94.4 71.6 107.4
 98 45.0 35.7 53.5

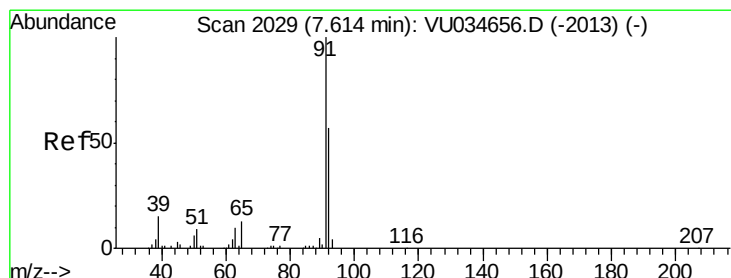
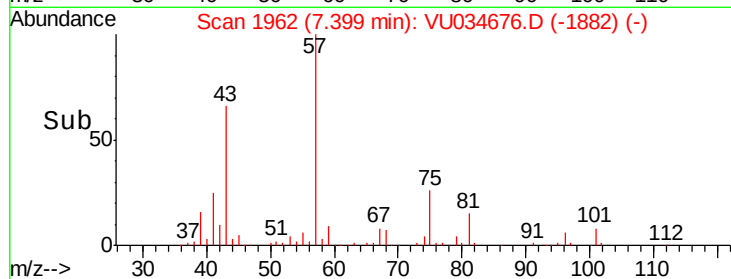
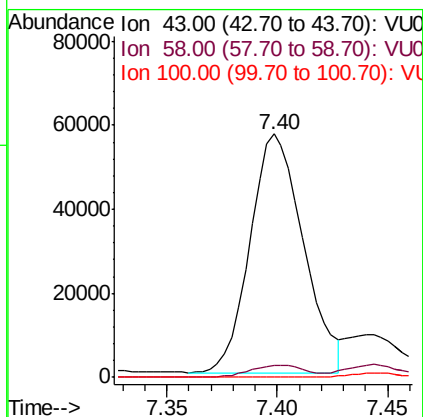
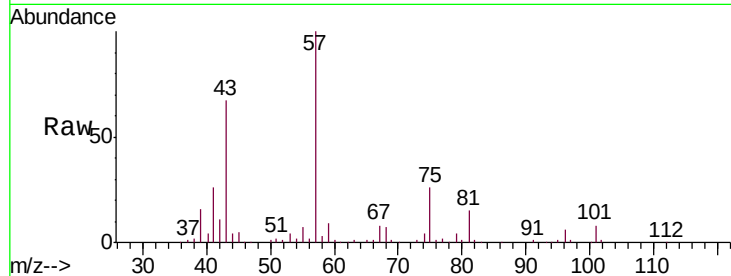




#40
 4-Methyl-2-pentanone
 Concen: 10.319 ug/L
 RT: 7.40 min Scan# 1962
 Delta R.T. -0.04 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

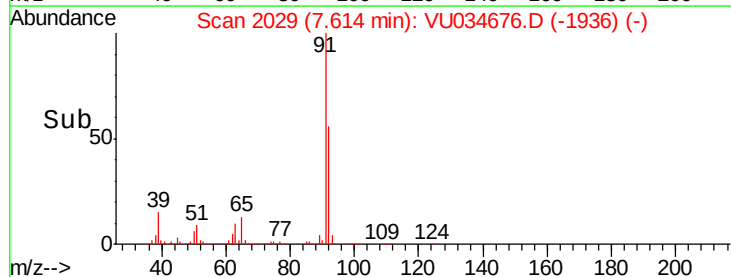
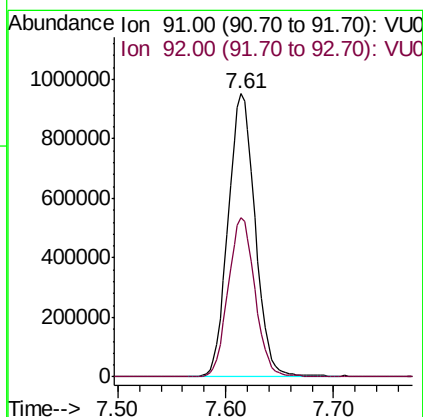
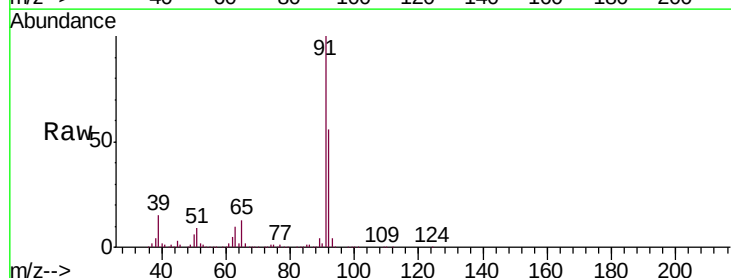
Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF6

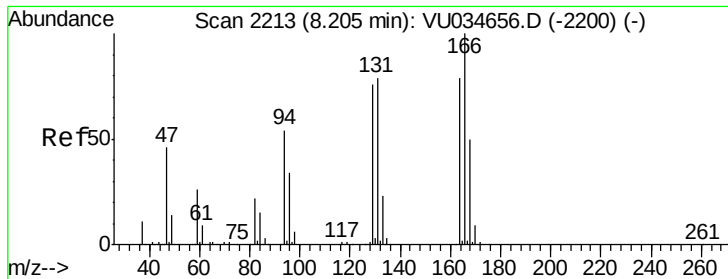
Tgt Ion: 43 Resp: 95248
 Ion Ratio Lower Upper
 43 100
 58 5.3 25.2 37.8#
 100 0.1 7.7 11.5#



#42
 Toluene
 Concen: 94.978 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: VU034676.D
 Acq: 20 Sep 2019 02:53

Tgt Ion: 91 Resp: 1666596
 Ion Ratio Lower Upper
 91 100
 92 56.3 38.2 71.0

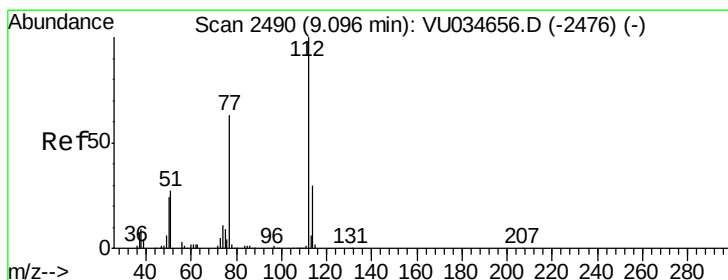
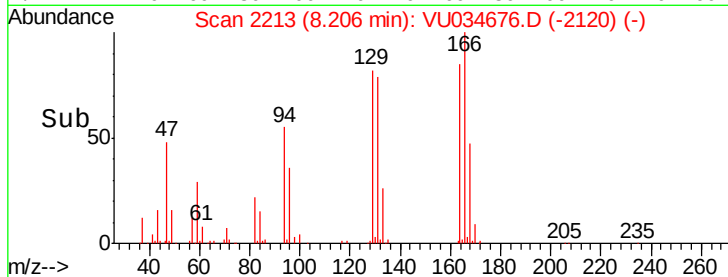
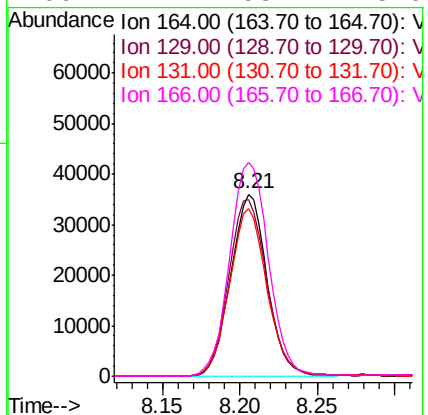
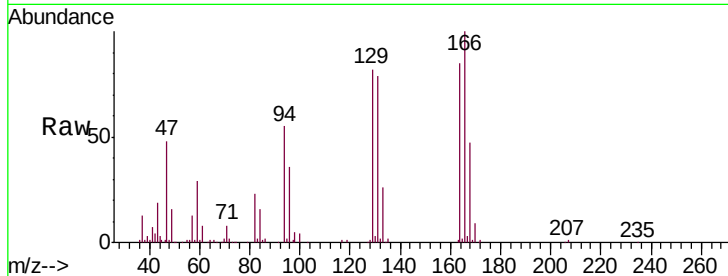




#46
Tetrachloroethene
Concen: 20.958 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

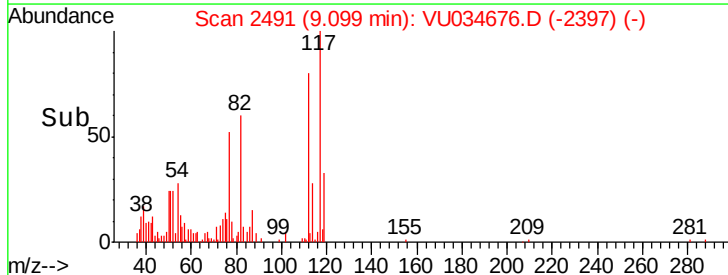
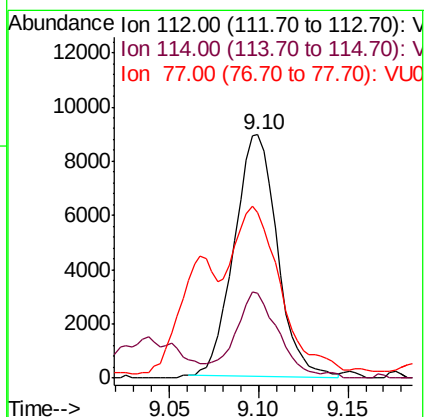
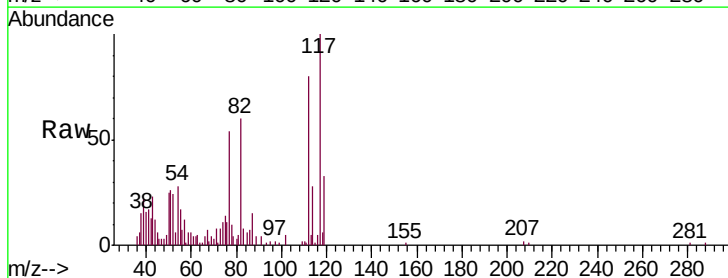
Instrument :
MSVOA_U
ClientSampleId :
BPDF6

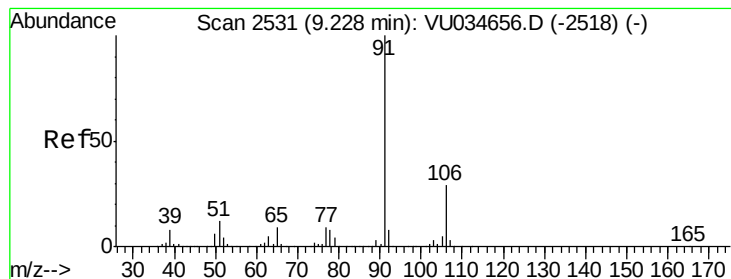
Tgt Ion:	164	Resp:	59114
Ion	Ratio	Lower	Upper
164	100		
129	96.6	71.9	133.5
131	92.4	66.3	123.1
166	117.2	93.4	173.6



#51
Chlorobenzene
Concen: 1.402 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Tgt Ion:	112	Resp:	14958
Ion	Ratio	Lower	Upper
112	100		
114	35.1	22.8	42.4
77	68.2	51.5	77.3





#52

Ethylbenzene

Concen: 37.065 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

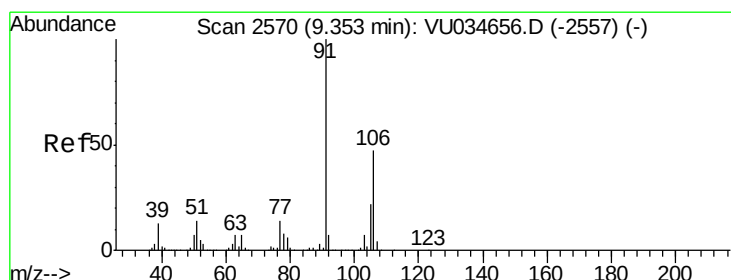
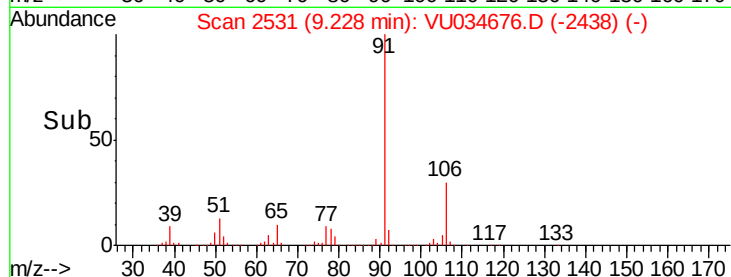
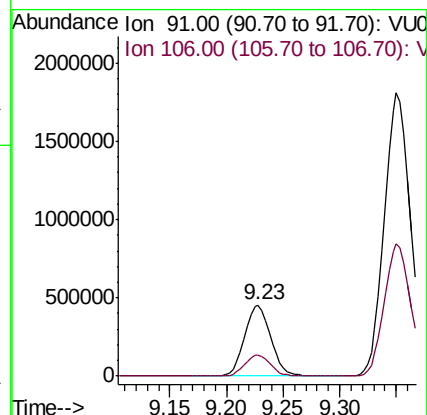
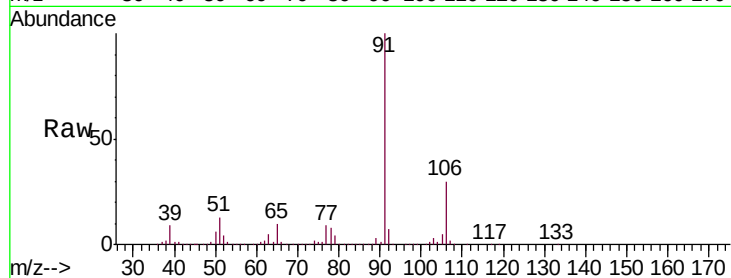
BDF6

Tgt Ion: 91 Resp: 732398

Ion Ratio Lower Upper

91 100

106 29.9 20.6 38.4



#53

m,p-Xylene

Concen: 196.671 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034676.D

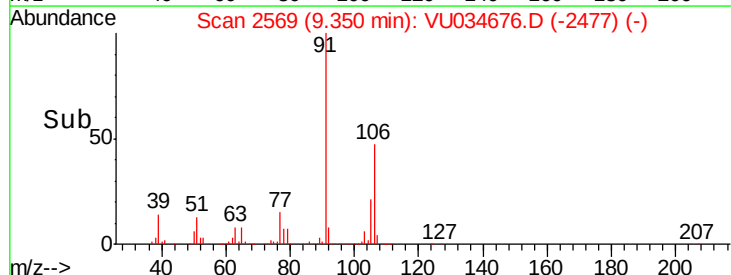
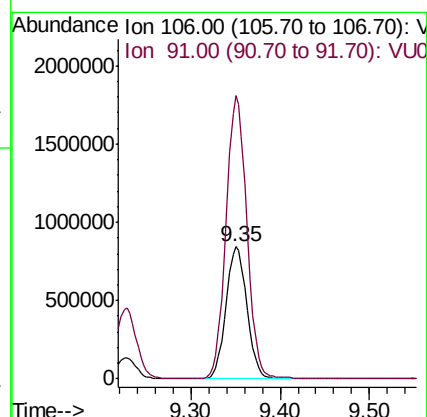
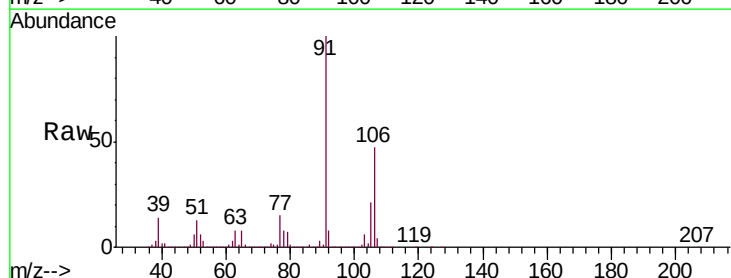
Acq: 20 Sep 2019 02:53

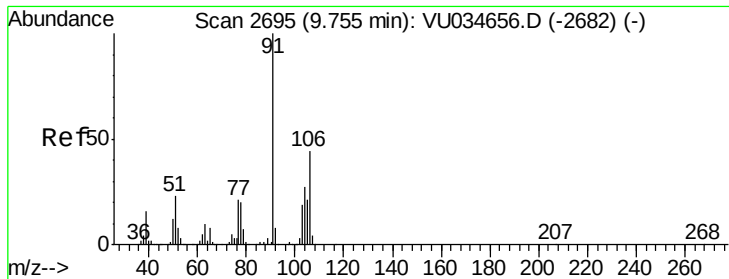
Tgt Ion: 106 Resp: 1376445

Ion Ratio Lower Upper

106 100

91 214.2 146.9 272.7

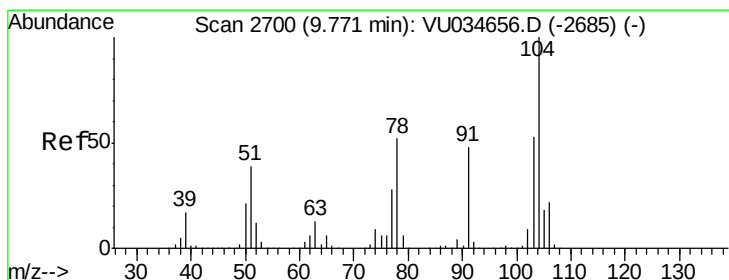
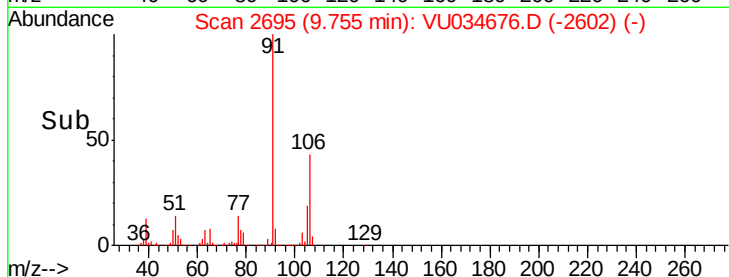
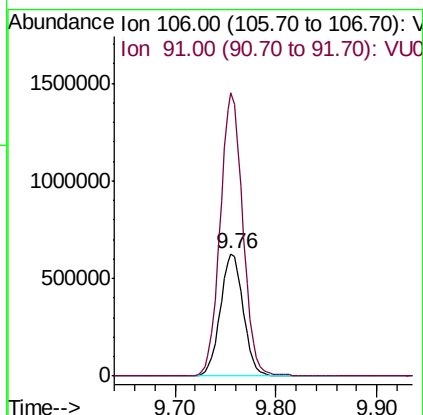
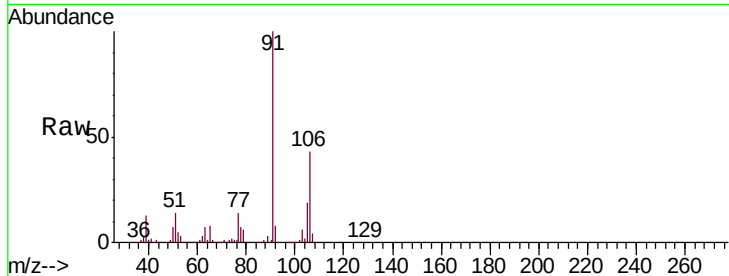




#54
o-xylene
Concen: 144.445 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

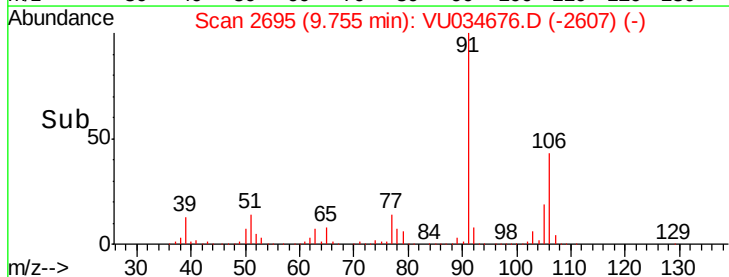
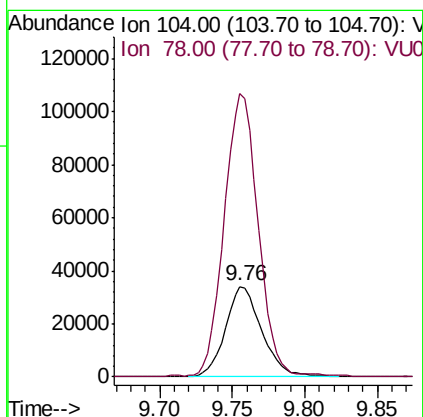
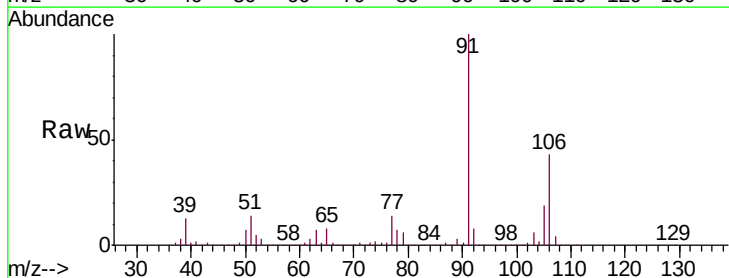
Instrument :
MSVOA_U
ClientSampleId :
BPDF6

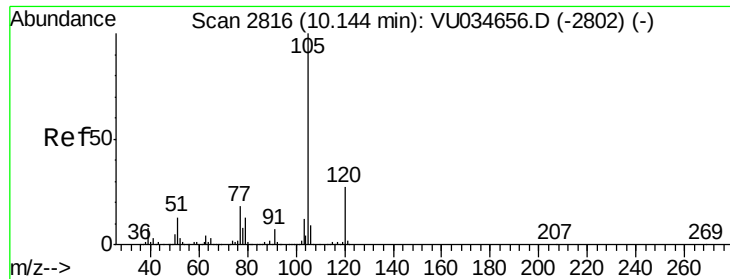
Tgt Ion:106 Resp: 999897
Ion Ratio Lower Upper
106 100
91 230.9 155.6 289.0



#55
Styrene
Concen: 5.078 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. -0.02 min
Lab File: VU034676.D
Acq: 20 Sep 2019 02:53

Tgt Ion:104 Resp: 59496
Ion Ratio Lower Upper
104 100
78 313.6 35.1 65.3#





#56

Isopropylbenzene

Concen: 4.522 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

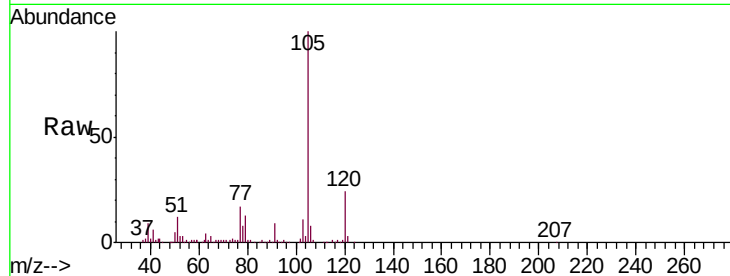
Tgt Ion:105 Resp: 84403

Ion Ratio Lower Upper

105 100

120 24.5 20.4 30.6

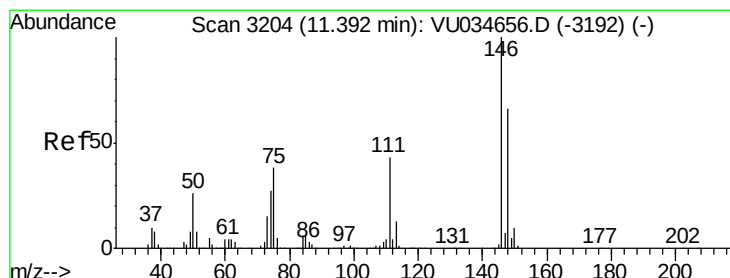
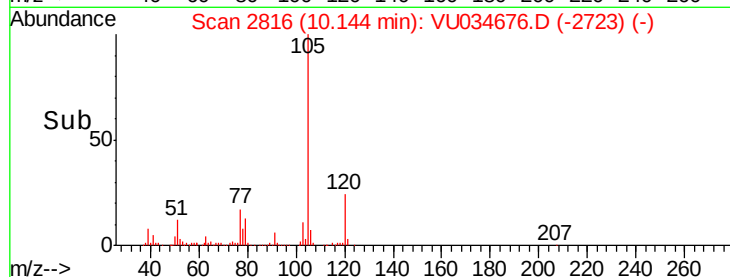
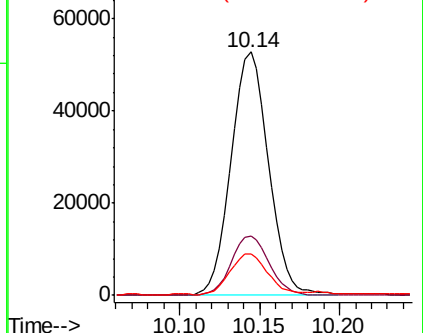
77 16.5 14.2 21.4



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): VU0



#62

1,3-Dichlorobenzene

Concen: 2.284 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

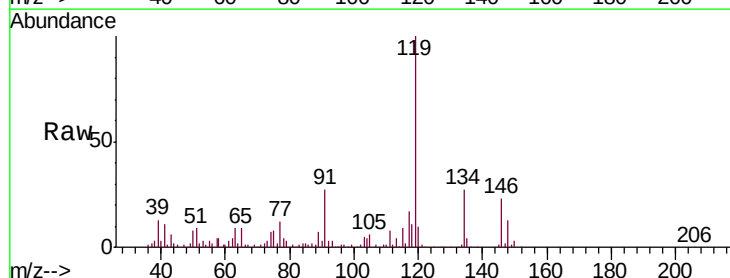
Tgt Ion:146 Resp: 18313

Ion Ratio Lower Upper

146 100

111 37.2 30.4 56.5

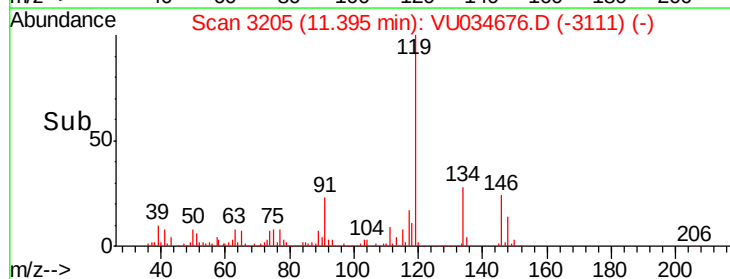
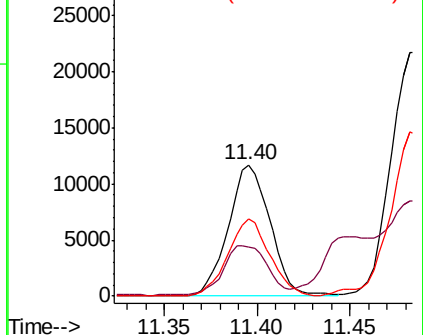
148 58.9 46.1 85.7

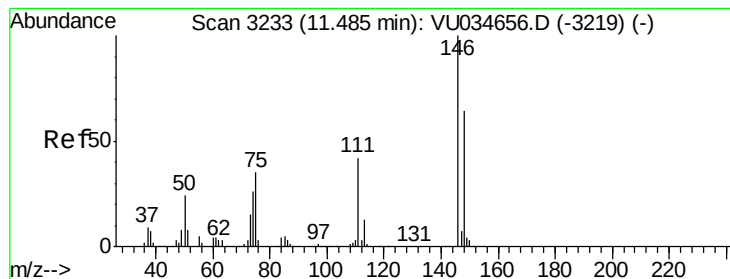


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 4.468 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BDF6

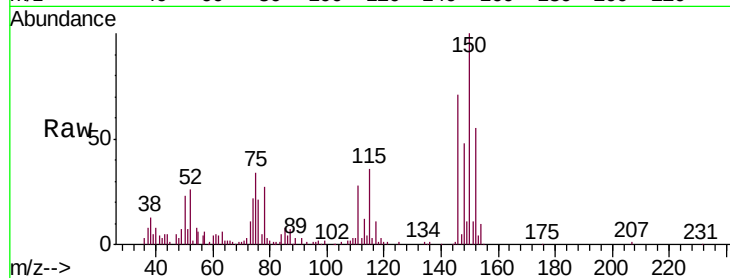
Tgt Ion:146 Resp: 36496

Ion Ratio Lower Upper

146 100

111 39.1 29.5 54.9

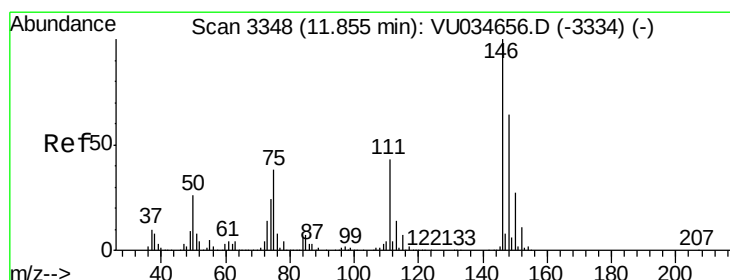
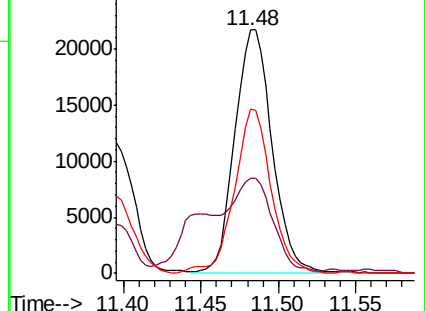
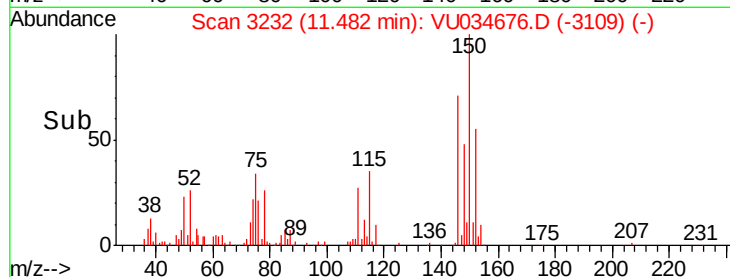
148 67.4 44.4 82.4



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



#65

1,2-Dichlorobenzene

Concen: 30.863 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

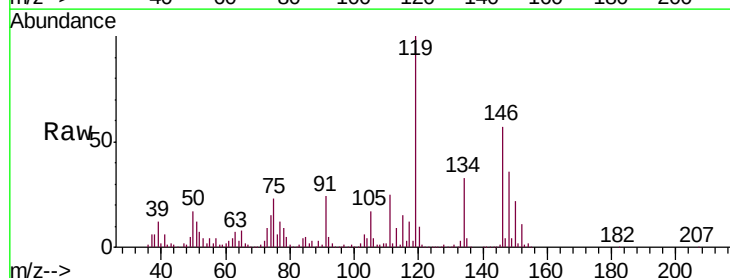
Tgt Ion:146 Resp: 250050

Ion Ratio Lower Upper

146 100

111 43.9 35.2 52.8

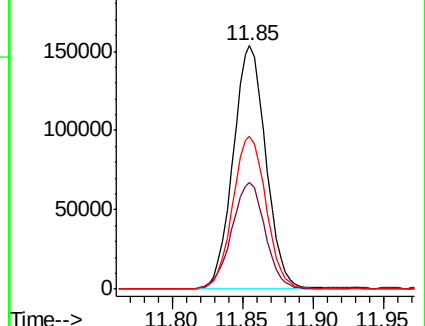
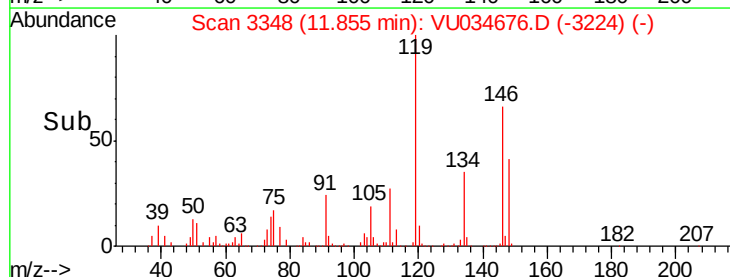
148 62.7 53.0 79.6

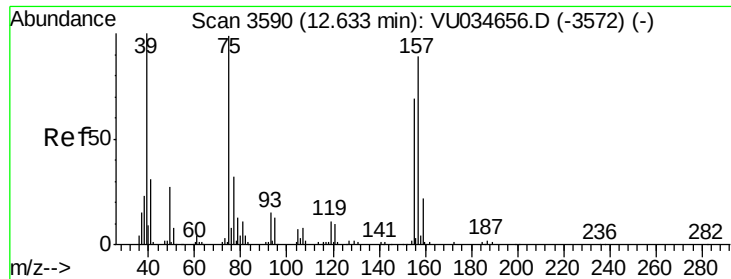


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 1.798 ug/L

RT: 12.62 min Scan# 3587

Delta R.T. -0.01 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

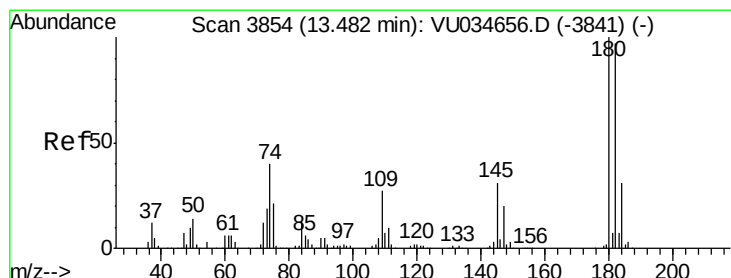
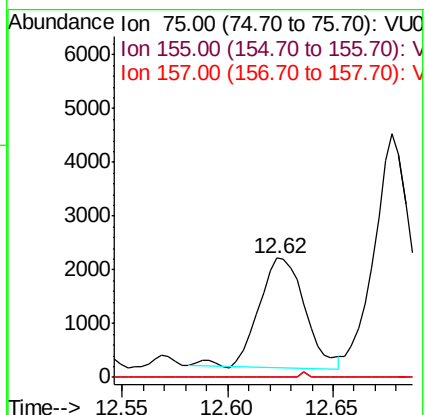
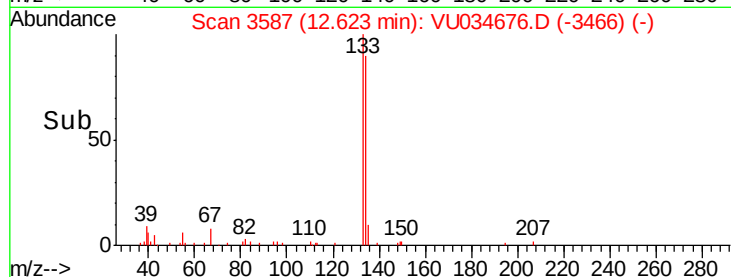
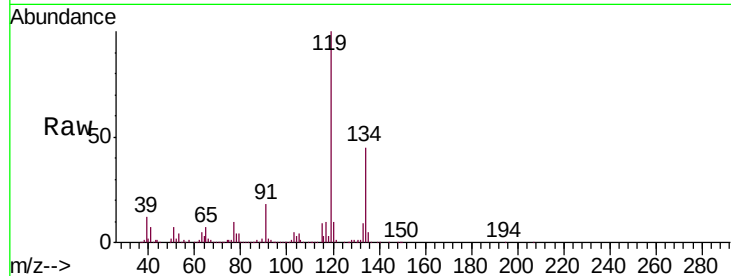
Tgt Ion: 75 Resp: 3096

Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

157 0.0 69.9 104.9#



#68

1,2,4-trichlorobenzene

Concen: 2.181 ug/L

RT: 13.48 min Scan# 3854

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

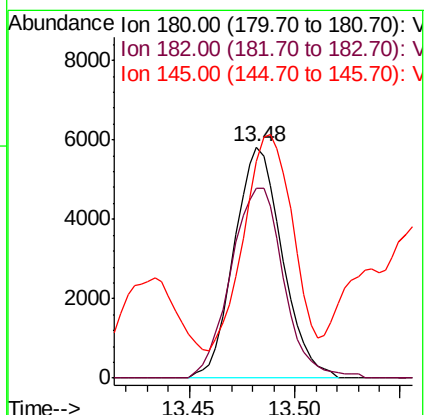
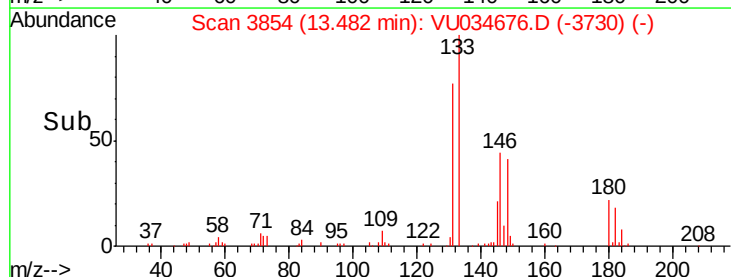
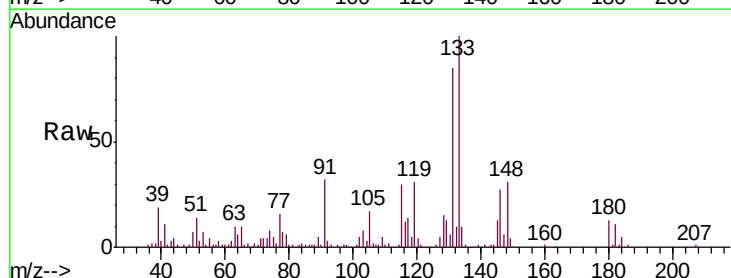
Tgt Ion: 180 Resp: 9213

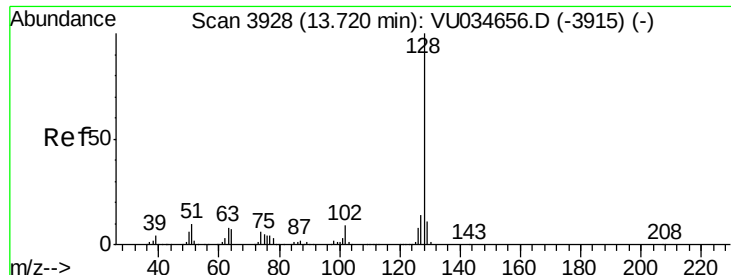
Ion Ratio Lower Upper

180 100

182 90.5 75.7 113.5

145 115.0 25.2 37.8#





#69

Naphthalene

Concen: 272.382 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034676.D

Acq: 20 Sep 2019 02:53

Instrument :

MSVOA_U

ClientSampleId :

BPDF6

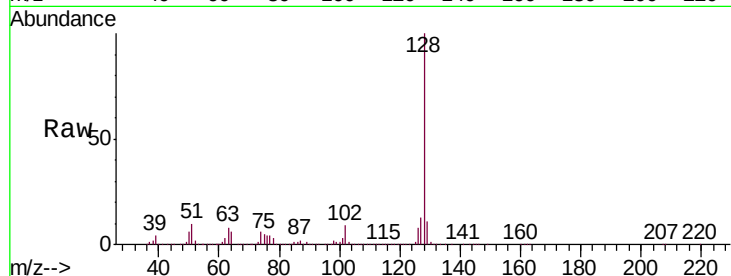
Tgt Ion:128 Resp: 3983867

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

129 11.0 8.6 12.8



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

