

Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG6RE

Quant Time: Sep 25 03:04:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Sep 25 02:59:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	617661	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	568553	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	260758	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	230387	36.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.88%
7) Chloroethane-d5	1.67	69	207191	42.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.80%
11) 1,1-Dichloroethene-d2	2.26	63	321087	29.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.98%#
21) 2-Butanone-d5	4.18	46	13574	2.80	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	2.80%#
24) Chloroform-d	4.60	84	190	0.02	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.04%#
26) 1,2-Dichloroethane-d4	5.28	65	285188	42.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.40%
32) Benzene-d6	5.32	84	883442	50.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.26%
36) 1,2-Dichloropropane-d6	6.31	67	304621	49.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.92%
41) Toluene-d8	7.54	98	838144	49.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.98%
43) trans-1,3-Dichloropropene-	7.83	79	133693	45.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.64%
47) 2-Hexanone-d5	8.41	63	128	0.04	ug/L	0.12
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.04%#
57) 1,1,2,2-Tetrachloroethane-	10.45	84	395	0.05	ug/L	0.04
Spiked Amount	50.000	Range	65 - 120	Recovery	=	0.10%#
64) 1,2-Dichlorobenzene-d4	11.84	152	285851	52.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.56%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	3177	0.755	ug/L #	27
13) Acetone	2.31	43	941729	167.052	ug/L	96
16) Methylene chloride	2.68	84	105421	20.594	ug/L	93
22) 2-Butanone	4.23	43	373632	55.711	ug/L	90
25) Chloroform	4.65	83	392522	39.327	ug/L	99
29) Cyclohexane	4.97	56	19187	2.045	ug/L #	59
33) Benzene	5.36	78	555340	28.163	ug/L	100
34) Trichloroethene	6.16	95	272750	56.007	ug/L	92
35) Methylcyclohexane	6.39	83	23887	2.890	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6624	1.128	ug/L #	95
40) 4-Methyl-2-pentanone	7.44	43	2845509	253.843	ug/L	95
42) Toluene	7.61	91	4858646	227.992	ug/L	98
45) 1,1,2-Trichloroethane	8.03	97	6398	1.360	ug/L #	20
46) Tetrachloroethene	8.21	164	20460	5.973	ug/L	96
48) 2-Hexanone	8.33	43	337688	38.571	ug/L #	91
52) Ethylbenzene	9.23	91	1063636	44.323	ug/L	97
53) m,p-Xylene	9.35	106	1469036	172.832	ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Quantitation Report (Not Reviewed)

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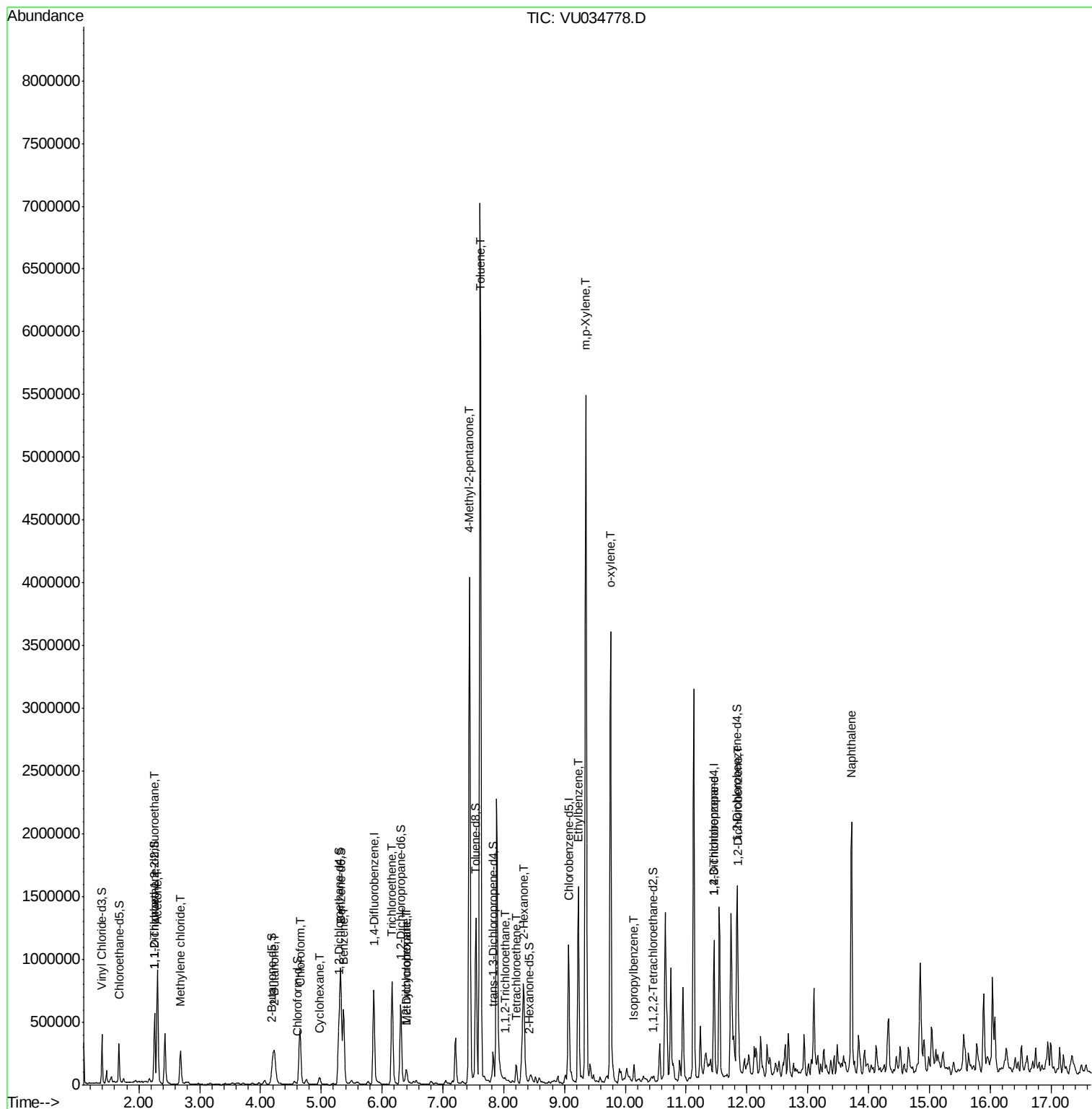
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.76	106	896512	106.638	ug/L	99
56) Isopropylbenzene	10.14	105	83277	3.674	ug/L	98
59) 1,2,3-Trichloropropane	11.46	75	37932	5.172	ug/L	89
65) 1,2-Dichlorobenzene	11.86	146	67155	7.360	ug/L	94
69) Naphthalene	13.72	128	1486743	90.263	ug/L	99

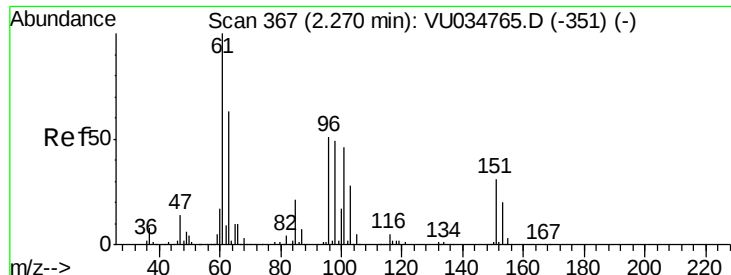
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.755 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

BFDG6RE

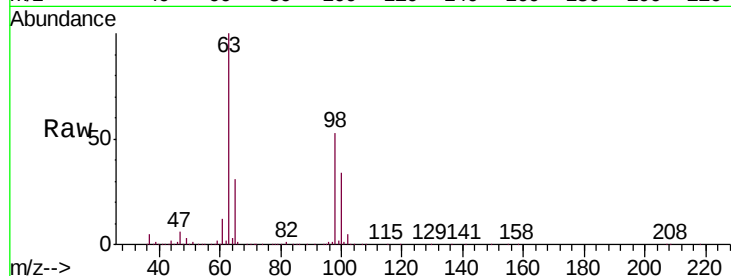
Tgt Ion:101 Resp: 3177

Ion Ratio Lower Upper

101 100

85 7.2 39.0 58.4#

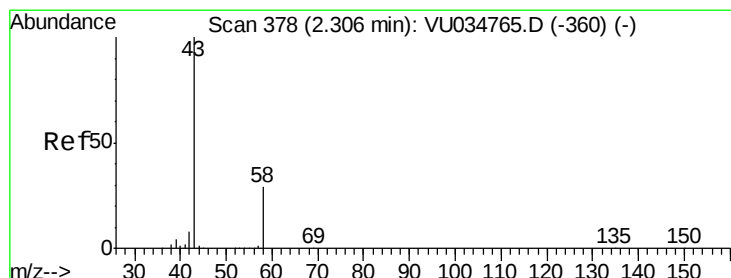
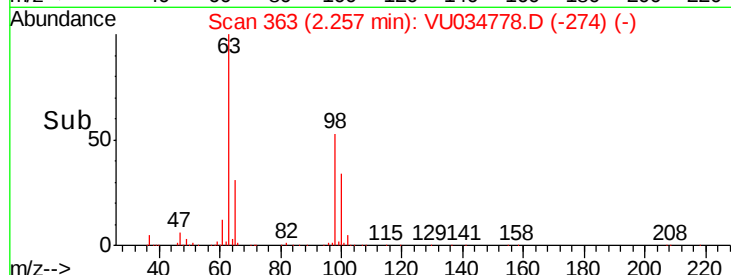
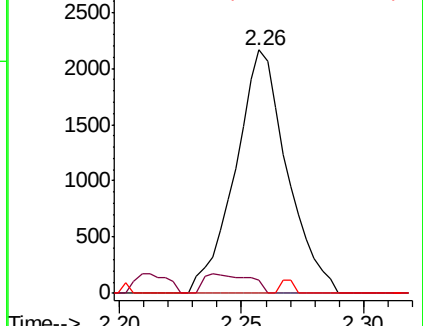
151 1.4 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 167.052 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034778.D

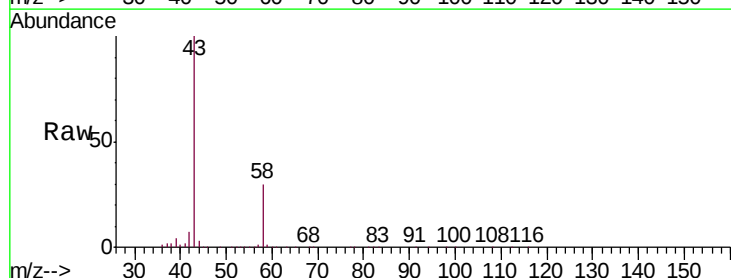
Acq: 24 Sep 2019 17:59

Tgt Ion: 43 Resp: 941729

Ion Ratio Lower Upper

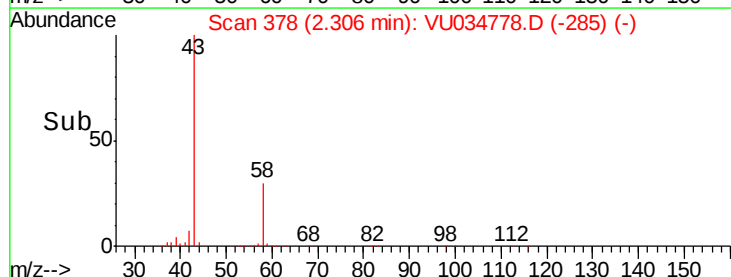
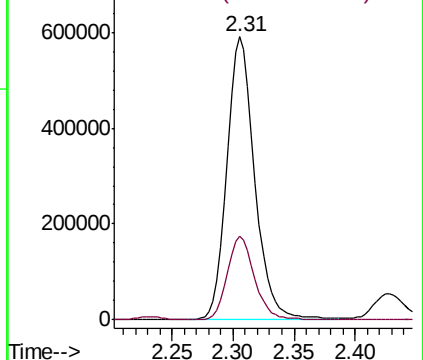
43 100

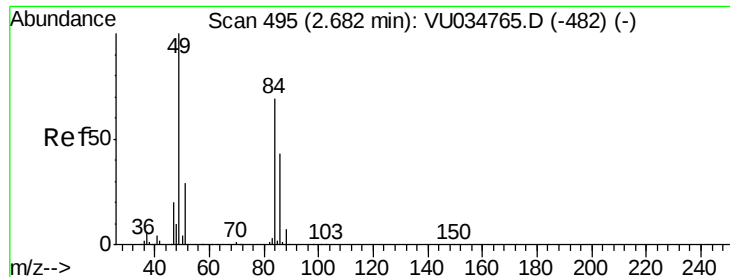
58 28.7 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

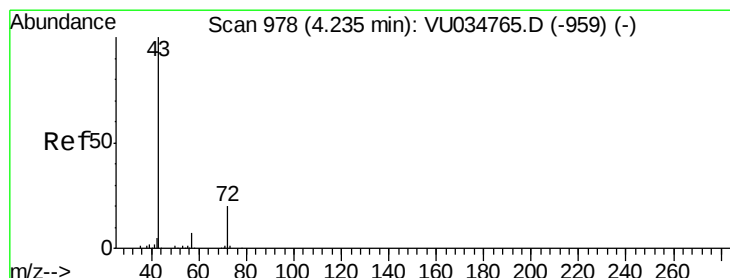
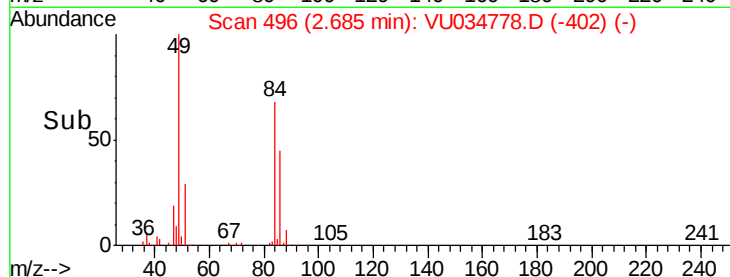
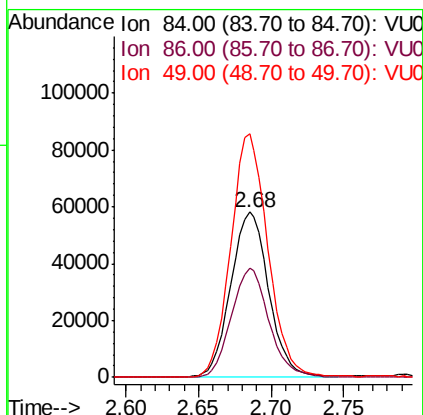
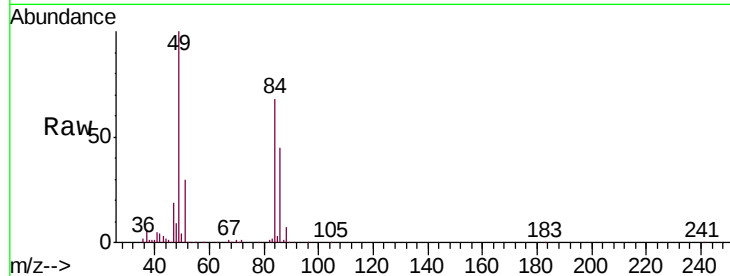




#16
Methylene chloride
Concen: 20.594 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

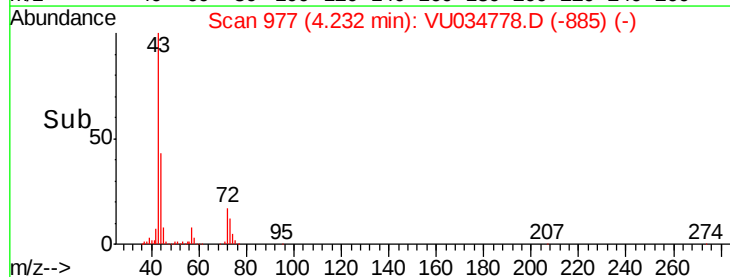
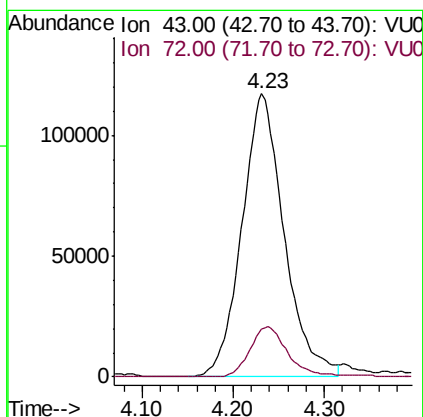
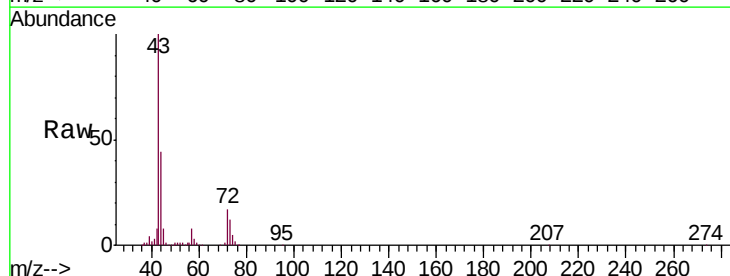
Instrument :
MSVOA_U
ClientSampleId :
BFDG6RE

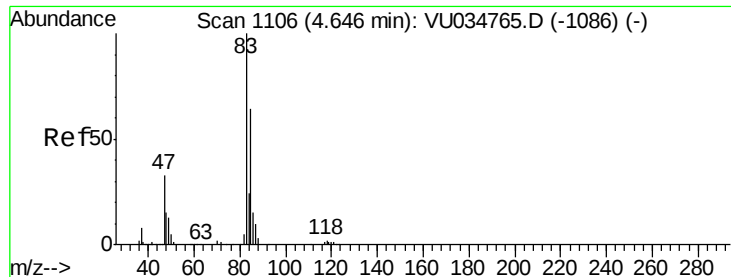
Tgt Ion: 84 Resp: 105421
Ion Ratio Lower Upper
84 100
86 66.2 43.0 80.0
49 147.6 109.7 203.7



#22
2-Butanone
Concen: 55.711 ug/L
RT: 4.23 min Scan# 977
Delta R.T. -0.00 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

Tgt Ion: 43 Resp: 373632
Ion Ratio Lower Upper
43 100
72 15.7 10.2 30.6





#25

Chloroform

Concen: 39.327 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

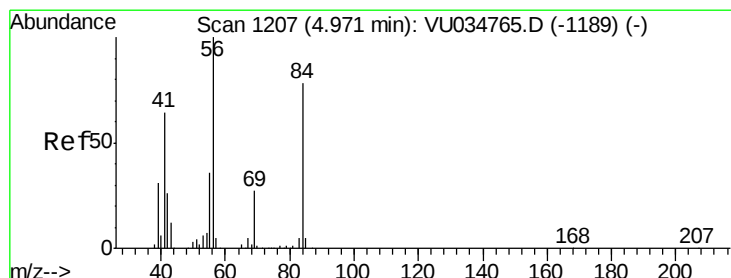
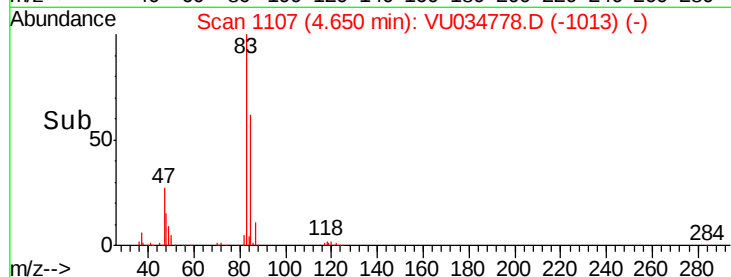
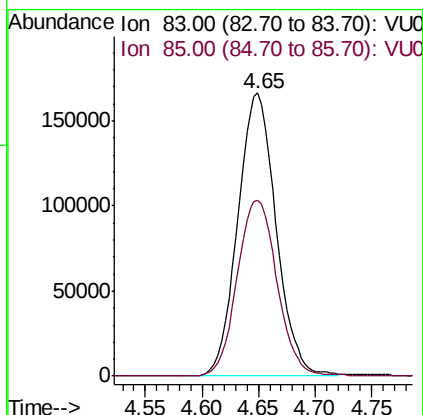
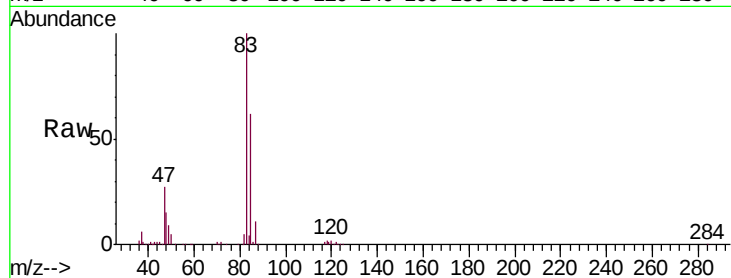
BFDG6RE

Tgt Ion: 83 Resp: 392522

Ion Ratio Lower Upper

83 100

85 62.2 44.0 81.6



#29

Cyclohexane

Concen: 2.045 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

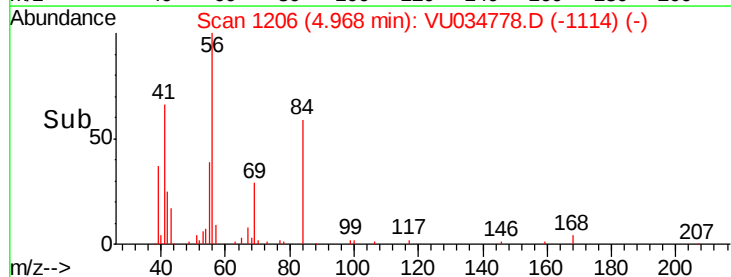
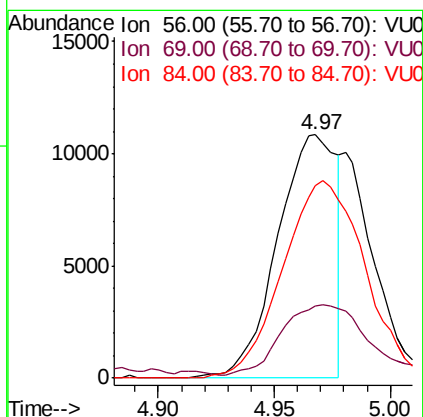
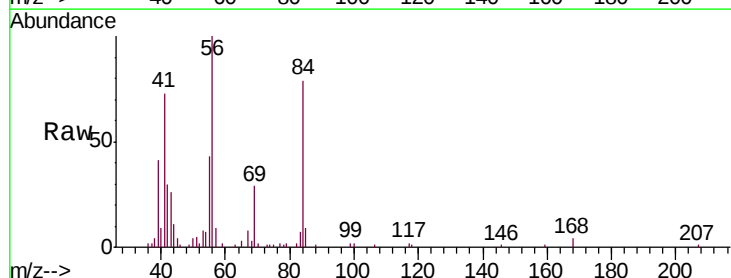
Tgt Ion: 56 Resp: 19187

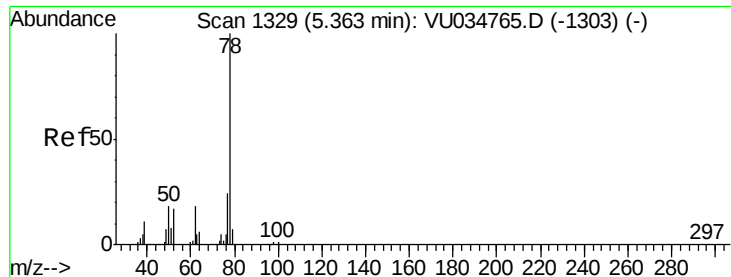
Ion Ratio Lower Upper

56 100

69 42.0 21.7 32.5#

84 112.0 58.8 88.2#





#33

Benzene

Concen: 28.163 ug/L

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

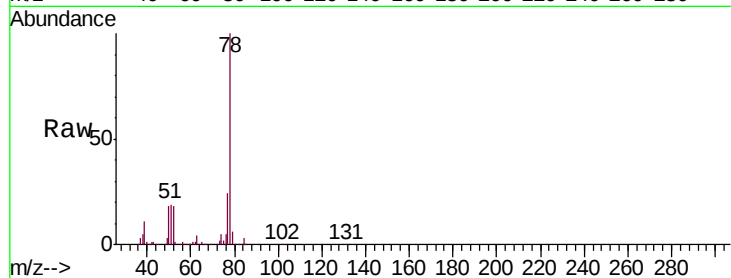
Instrument :

MSVOA_U

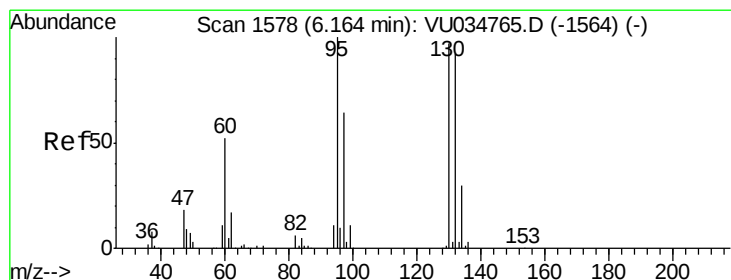
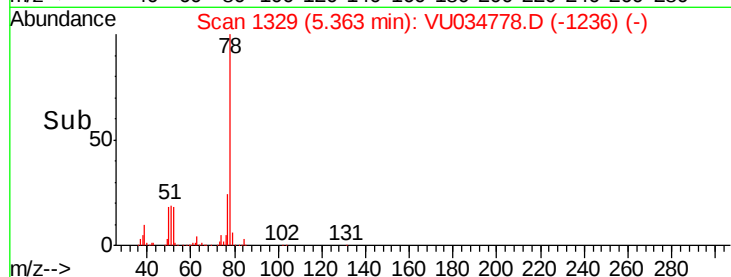
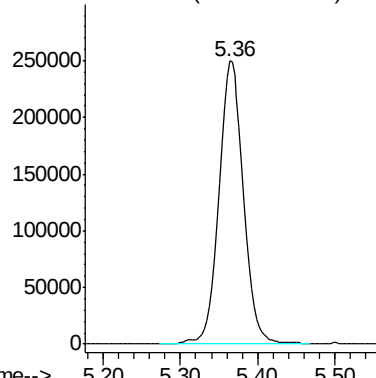
ClientSampleId :

BFDG6RE

Tgt Ion: 78 Resp: 555340



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 56.007 ug/L

RT: 6.16 min Scan# 1578

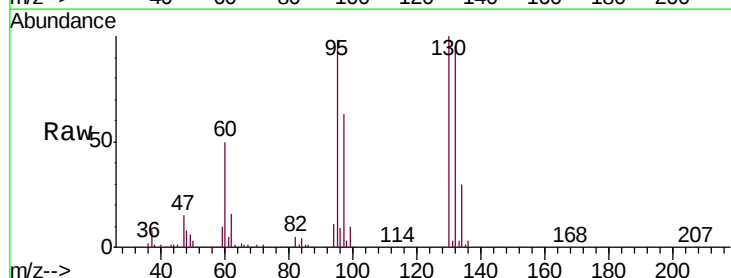
Delta R.T. -0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

Tgt Ion: 95 Resp: 272750

Ion	Ratio	Lower	Upper
95	100		
97	63.8	43.7	81.1
132	97.1	61.0	113.2
130	101.8	65.7	121.9

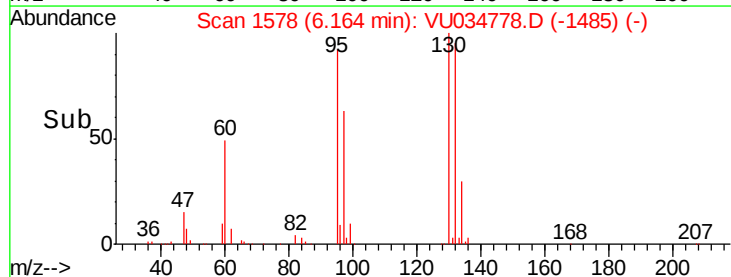
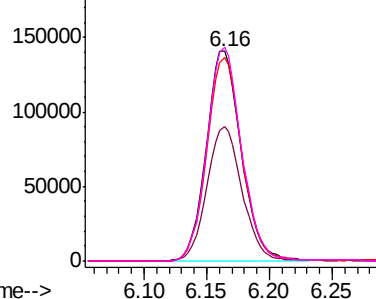


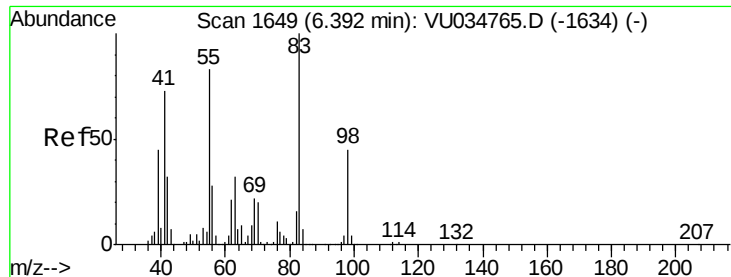
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

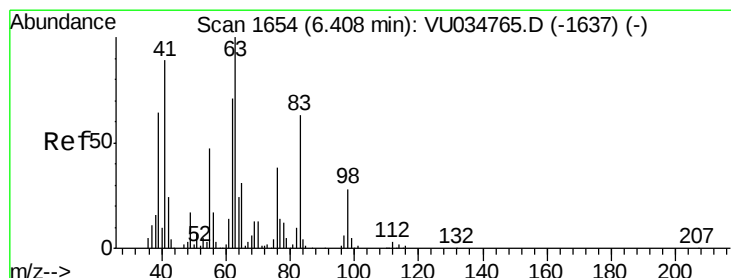
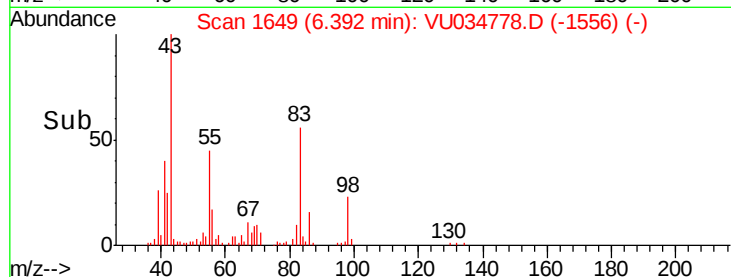
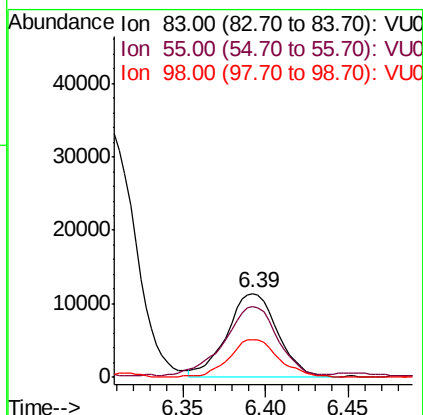
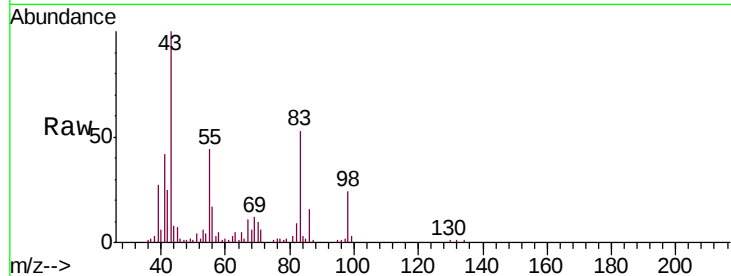




#35
Methylcyclohexane
Concen: 2.890 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

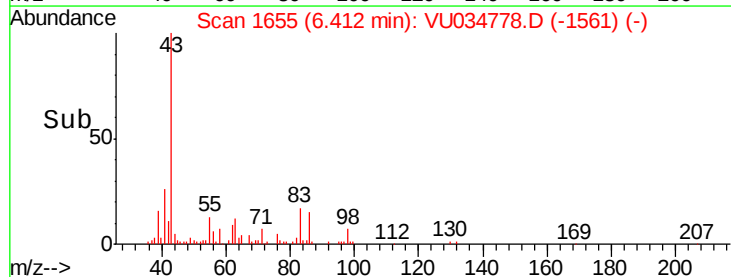
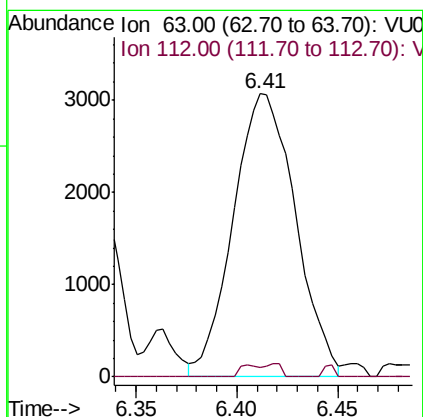
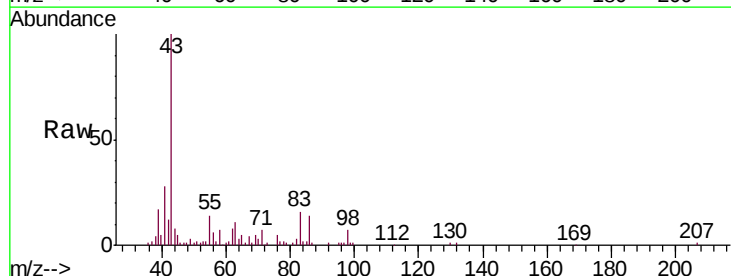
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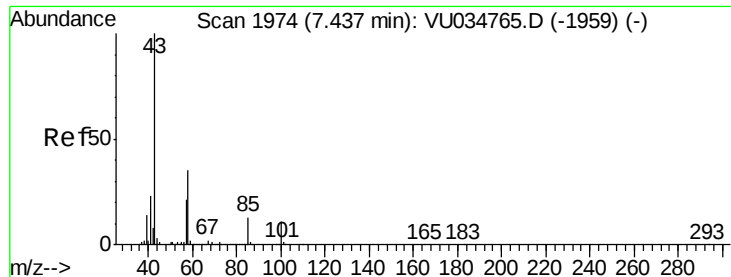
Tgt Ion: 83 Resp: 23887
Ion Ratio Lower Upper
83 100
55 86.2 71.6 107.4
98 44.7 35.7 53.5



#37
1,2-Dichloropropane
Concen: 1.128 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

Tgt Ion: 63 Resp: 6624
Ion Ratio Lower Upper
63 100
112 1.4 2.4 3.6#

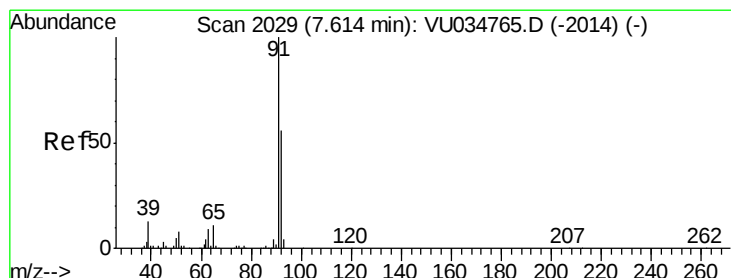
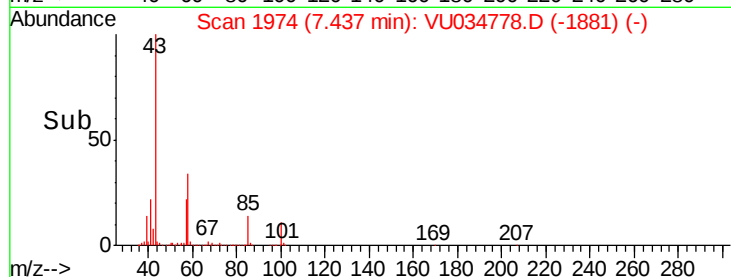
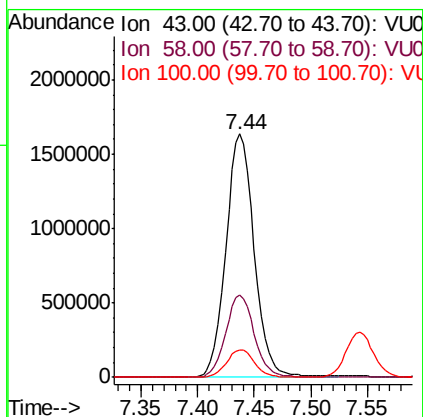
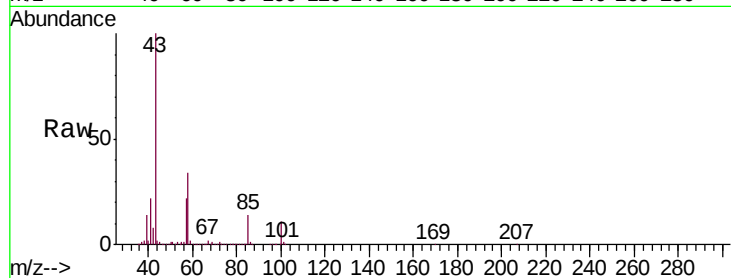




#40
 4-Methyl-2-pentanone
 Concen: 253.843 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

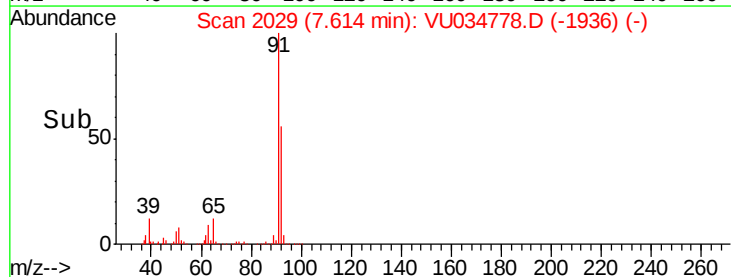
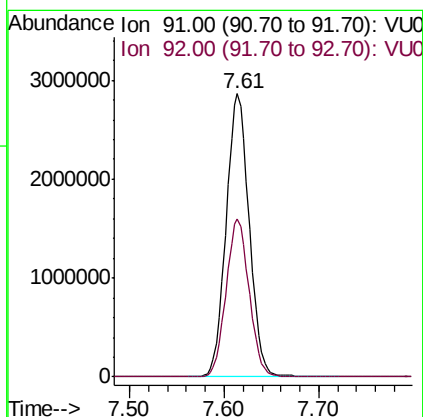
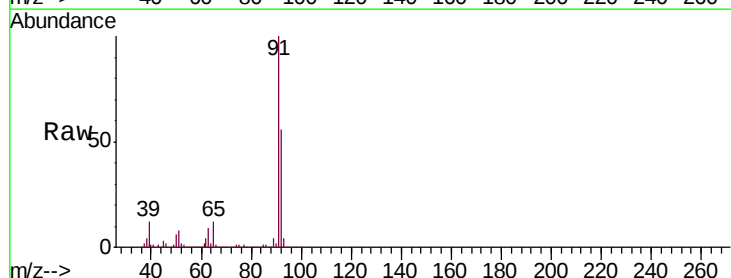
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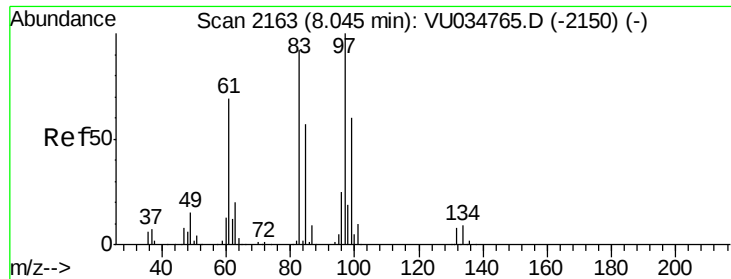
Tgt Ion: 43 Resp: 2845509
 Ion Ratio Lower Upper
 43 100
 58 34.4 25.2 37.8
 100 11.3 7.7 11.5



#42
 Toluene
 Concen: 227.992 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. -0.00 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

Tgt Ion: 91 Resp: 4858646
 Ion Ratio Lower Upper
 91 100
 92 56.0 38.2 71.0

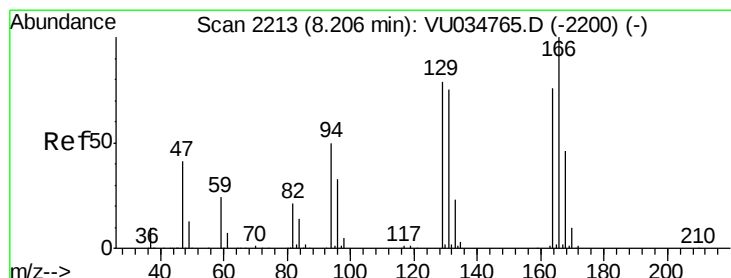
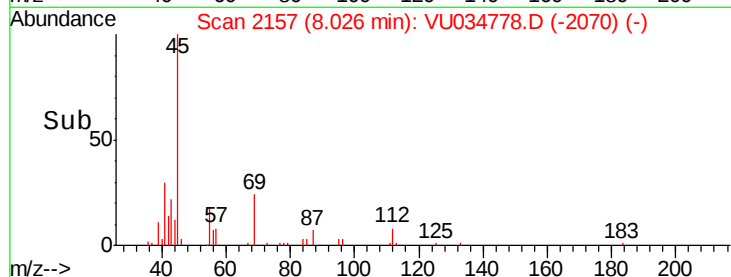
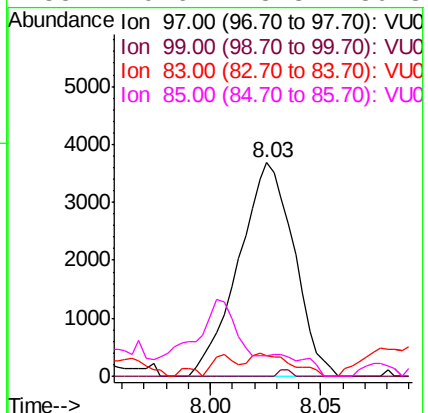
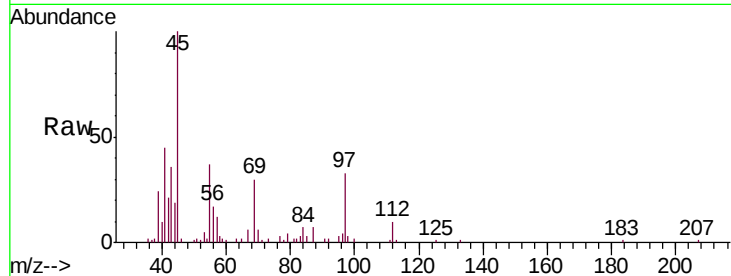




#45
 1,1,2-Trichloroethane
 Concen: 1.360 ug/L
 RT: 8.03 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

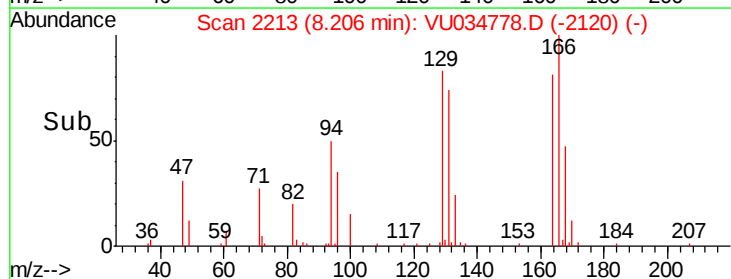
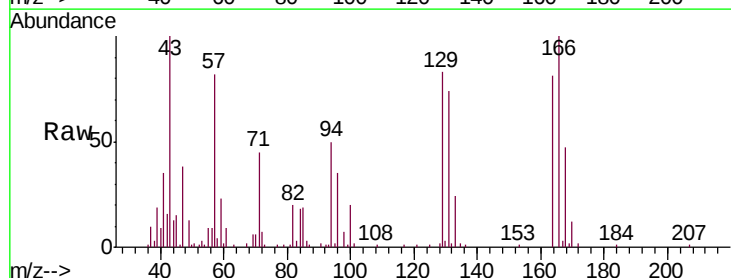
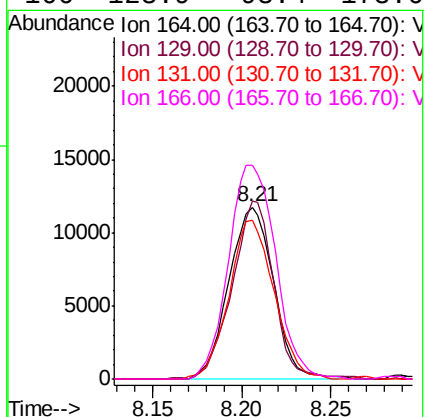
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG6RE

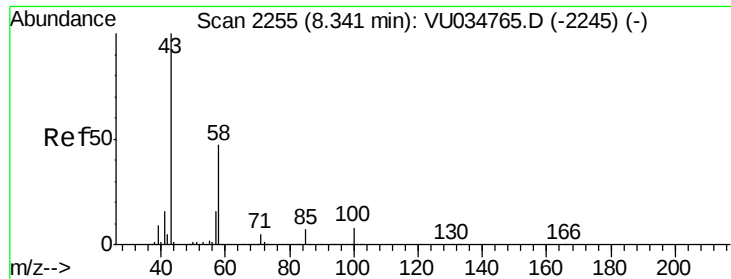
Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	81.0#
83	9.7	66.9	124.3#
85	9.6	43.3	80.3#



#46
 Tetrachloroethene
 Concen: 5.973 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
164	100		
129	103.3	71.9	133.5
131	91.9	66.3	123.1
166	123.9	93.4	173.6

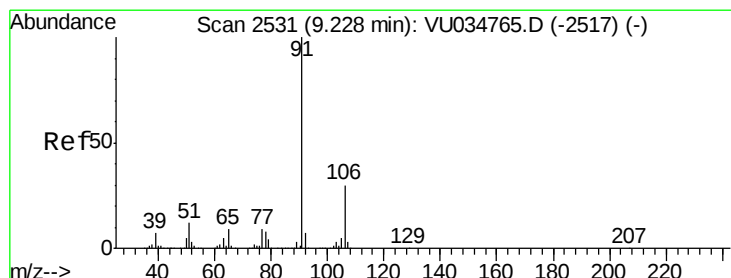
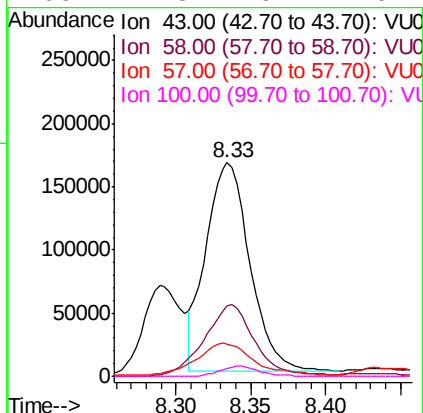
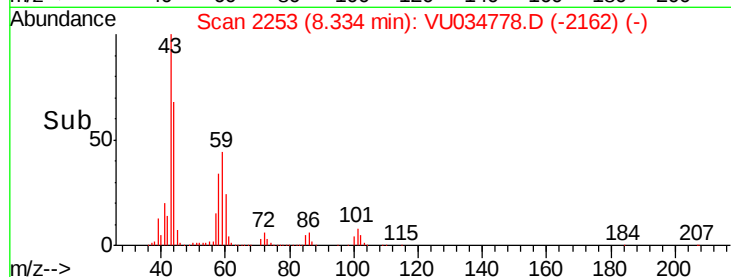
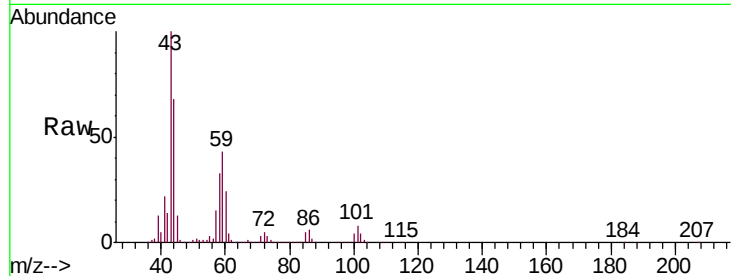




#48
2-Hexanone
Concen: 38.571 ug/L
RT: 8.33 min Scan# 2253
Delta R.T. -0.01 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

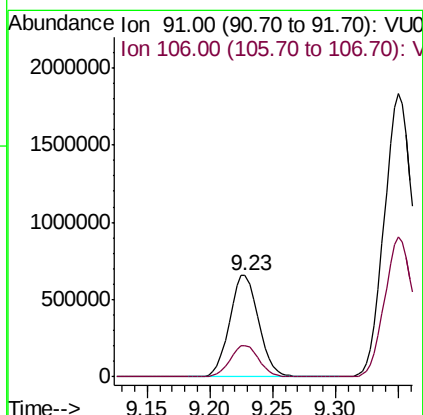
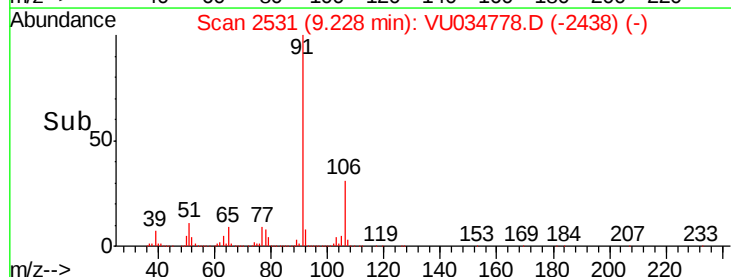
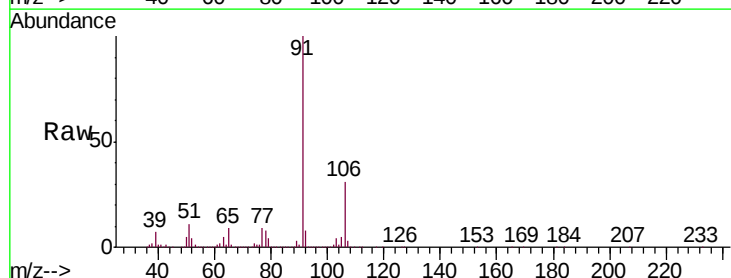
Instrument :
MSVOA_U
ClientSampleId :
BFDG6RE

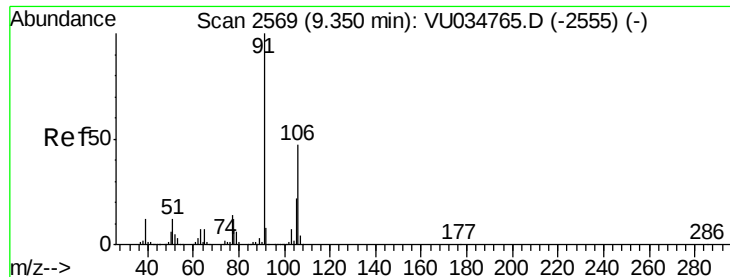
Tgt Ion:	43	Resp:	337688
Ion	Ratio	Lower	Upper
43	100		
58	38.8	35.3	52.9
57	20.1	12.1	18.1#
100	4.3	6.2	9.4#



#52
Ethylbenzene
Concen: 44.323 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034778.D
Acq: 24 Sep 2019 17:59

Tgt Ion:	91	Resp:	1063636
Ion	Ratio	Lower	Upper
91	100		
106	31.1	20.6	38.4





#53

m,p-Xylene

Concen: 172.832 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

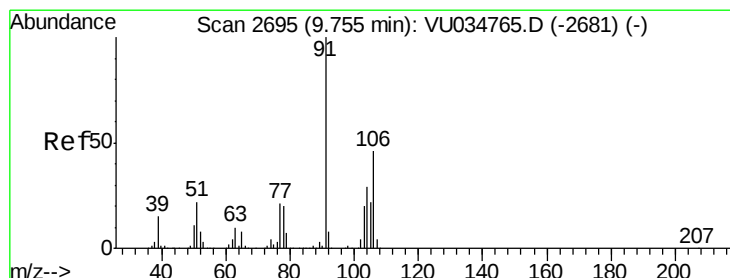
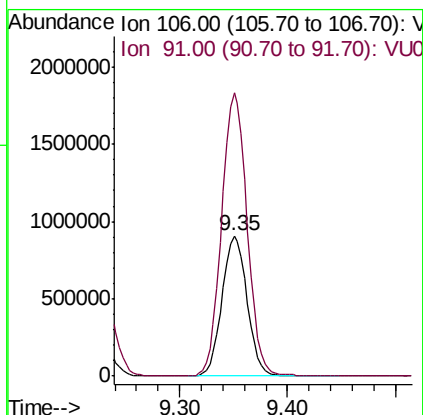
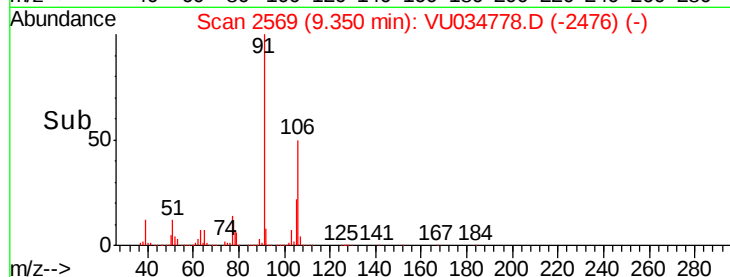
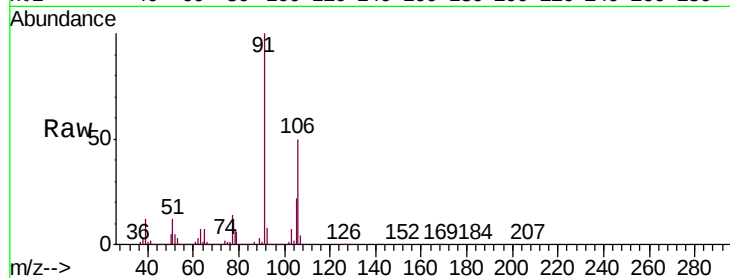
BFDG6RE

Tgt Ion:106 Resp: 1469036

Ion Ratio Lower Upper

106 100

91 201.7 146.9 272.7



#54

o-xylene

Concen: 106.638 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034778.D

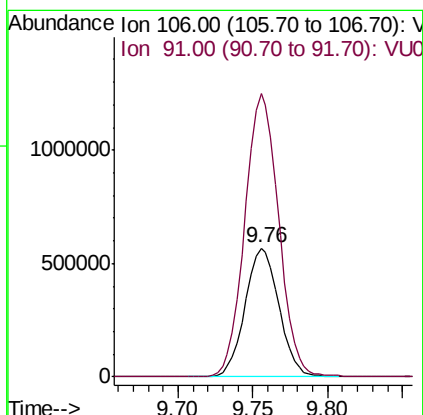
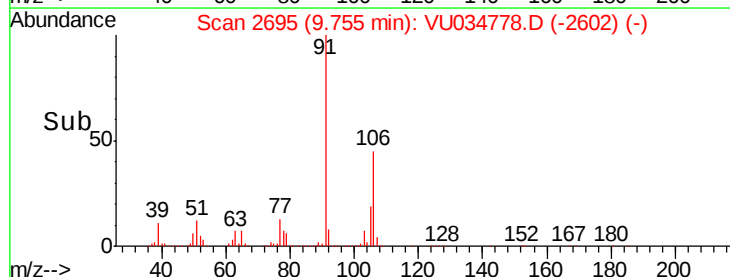
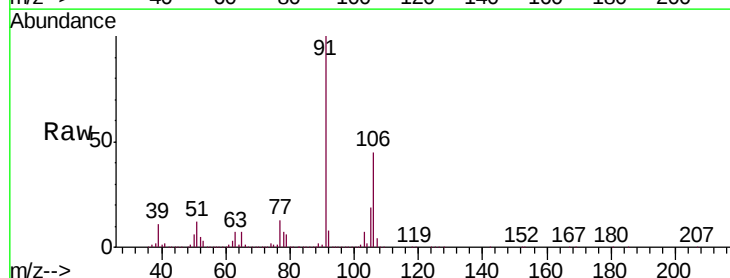
Acq: 24 Sep 2019 17:59

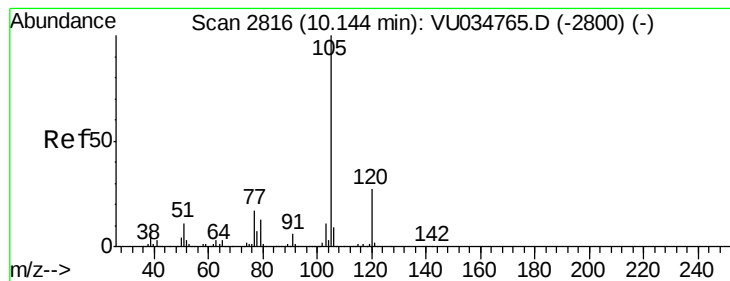
Tgt Ion:106 Resp: 896512

Ion Ratio Lower Upper

106 100

91 220.3 155.6 289.0





#56

Isopropylbenzene

Concen: 3.674 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034778.D

Acq: 24 Sep 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

BFDG6RE

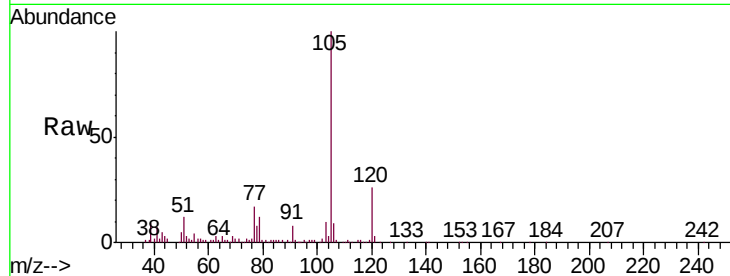
Tgt Ion: 105 Resp: 83277

Ion Ratio Lower Upper

105 100

120 26.6 20.4 30.6

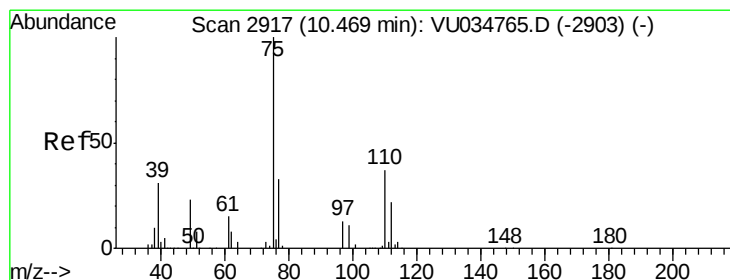
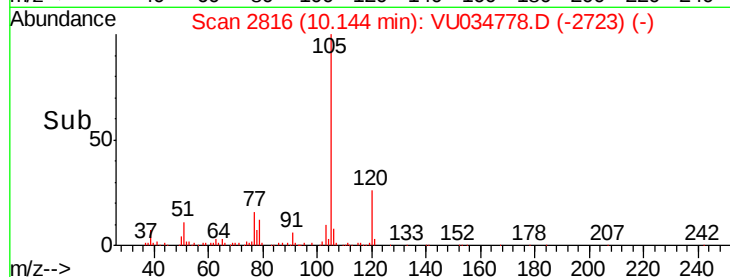
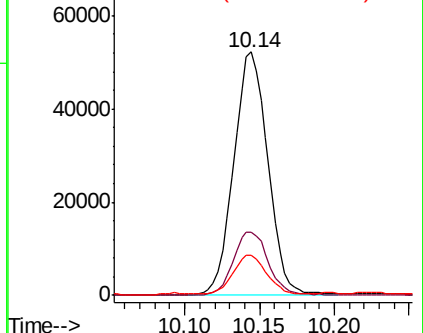
77 16.6 14.2 21.4



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): VU



#59

1,2,3-Trichloropropane

Concen: 5.172 ug/L

RT: 11.46 min Scan# 3225

Delta R.T. 0.99 min

Lab File: VU034778.D

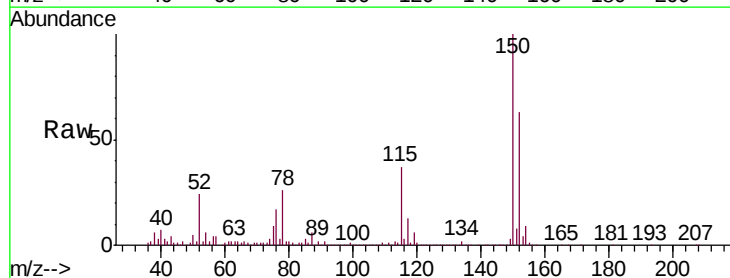
Acq: 24 Sep 2019 17:59

Tgt Ion: 75 Resp: 37932

Ion Ratio Lower Upper

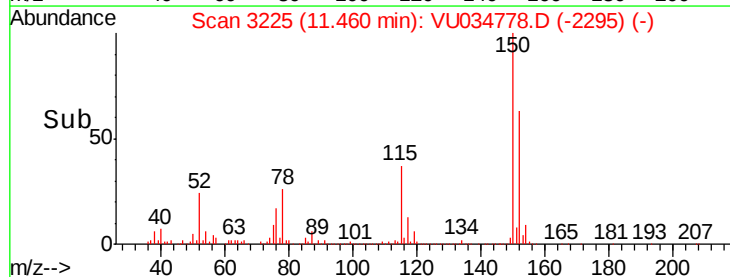
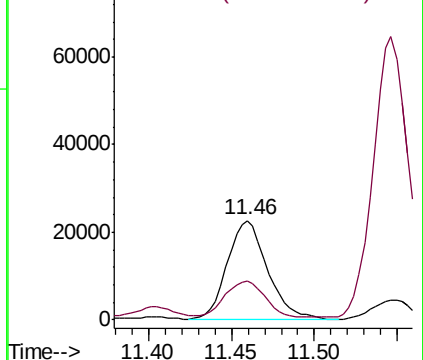
75 100

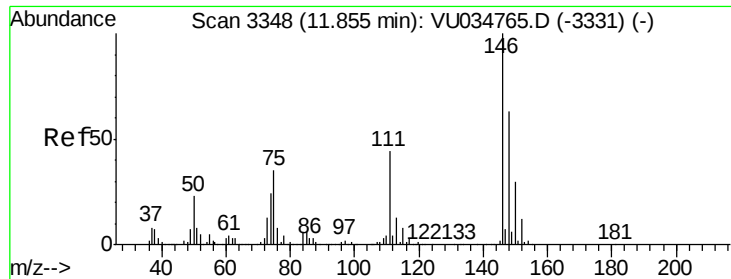
77 36.6 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

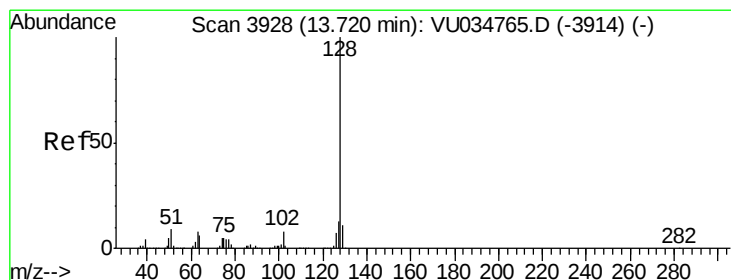
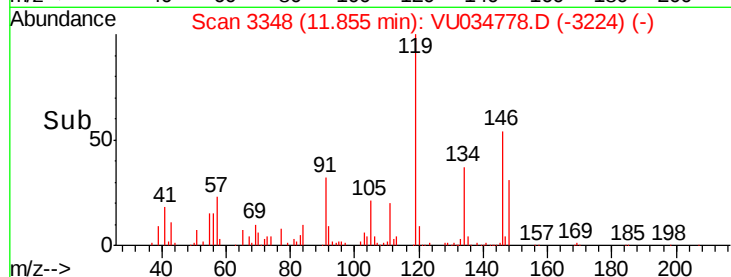
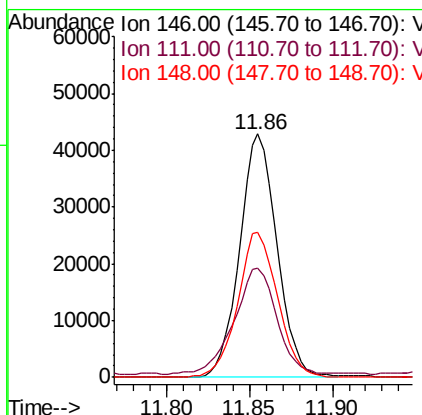
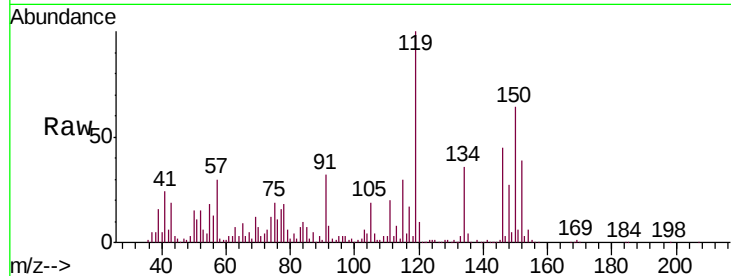




#65
 1,2-Dichlorobenzene
 Concen: 7.360 ug/L
 RT: 11.86 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG6RE

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.1	35.2	52.8
148	59.6	53.0	79.6



#69
 Naphthalene
 Concen: 90.263 ug/L
 RT: 13.72 min Scan# 3928
 Delta R.T. -0.00 min
 Lab File: VU034778.D
 Acq: 24 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.8	16.2
129	11.0	8.6	12.8

