

Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH7

Quant Time: Sep 20 04:09:40 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	503476	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	478999	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	235708	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	226107	43.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.74%
7) Chloroethane-d5	1.67	69	184926	46.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.84%
11) 1,1-Dichloroethene-d2	2.26	63	305136	34.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.92%
21) 2-Butanone-d5	4.15	46	461086	116.72	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.72%
24) Chloroform-d	4.62	84	351862	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.92%
26) 1,2-Dichloroethane-d4	5.29	65	258622	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.90%
32) Benzene-d6	5.32	84	709023	47.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.52%
36) 1,2-Dichloropropane-d6	6.31	67	250684	48.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.62%
41) Toluene-d8	7.54	98	678403	48.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.06%
43) trans-1,3-Dichloropropene-	7.83	79	118204	47.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.12%
47) 2-Hexanone-d5	8.29	63	296888	113.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.91%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	342337	47.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.08%
64) 1,2-Dichlorobenzene-d4	11.84	152	238436	48.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.48%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2727	0.795	ug/L #	23
13) Acetone	2.31	43	271896	59.170	ug/L	100
15) Methyl Acetate	2.61	43	7482	1.219	ug/L #	68
16) Methylene chloride	2.68	84	7277	1.744	ug/L	94
19) 1,1-Dichloroethane	3.42	63	186366	22.557	ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	26460	6.283	ug/L	99
22) 2-Butanone	4.24	43	81419	14.893	ug/L	92
27) 1,2-Dichloroethane	5.36	62	15658	2.228	ug/L #	85
29) Cyclohexane	4.97	56	27252	3.447	ug/L #	91
33) Benzene	5.37	78	1429529	86.049	ug/L	100
34) Trichloroethene	6.17	95	20373	4.966	ug/L	96
35) Methylcyclohexane	6.39	83	18588	2.670	ug/L #	84
40) 4-Methyl-2-pentanone	7.44	43	118673	12.566	ug/L	97
42) Toluene	7.61	91	7983841	444.684	ug/L	98
46) Tetrachloroethene	8.21	164	12239	4.241	ug/L	85
51) Chlorobenzene	9.10	112	103256	9.461	ug/L	97
52) Ethylbenzene	9.23	91	1580768	78.188	ug/L	99

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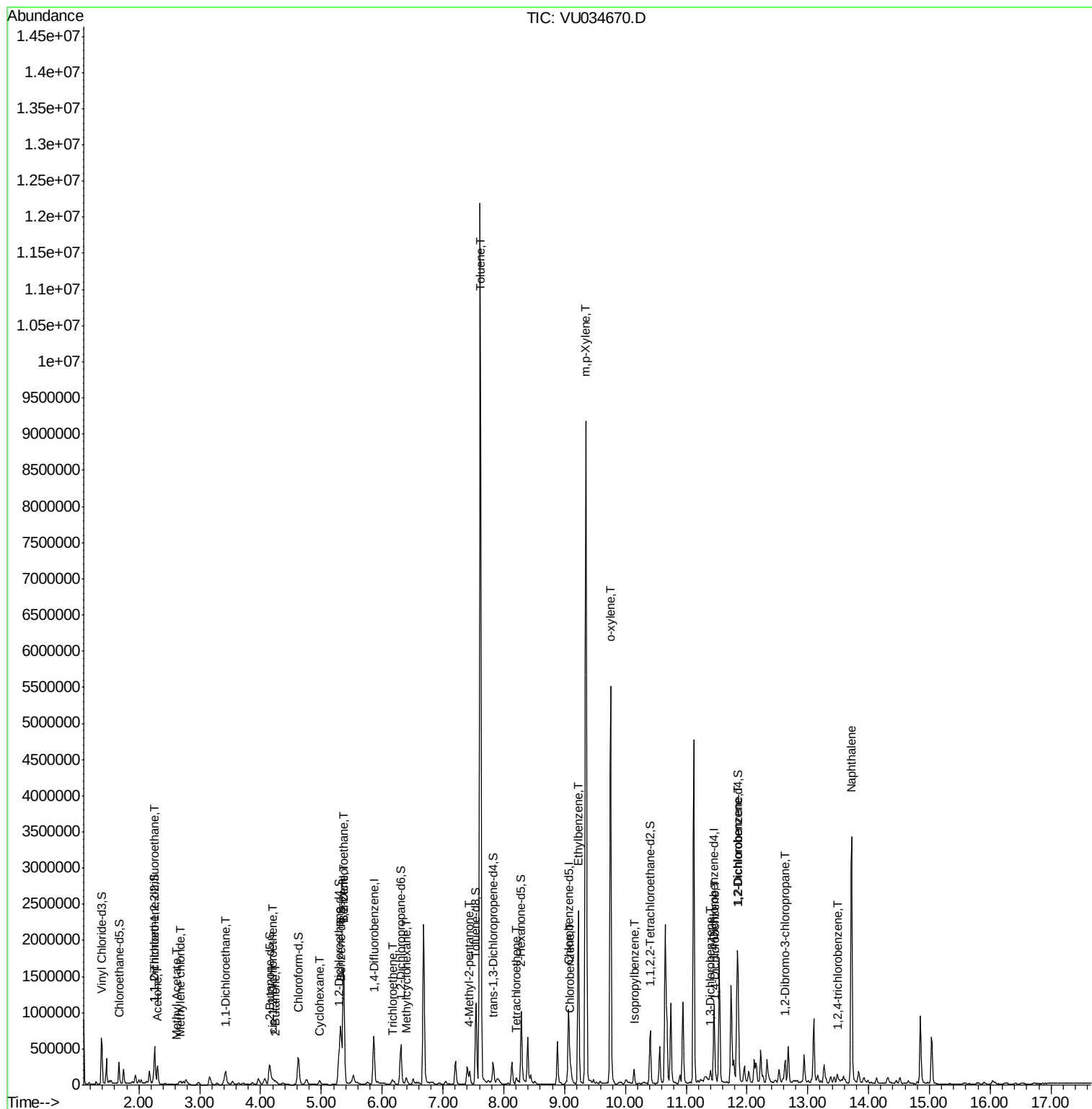
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.35	106	2319069	323.848	ug/L	98
54) o-xylene	9.76	106	1277559	180.374	ug/L	97
56) Isopropylbenzene	10.14	105	118454	6.203	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	13352	1.636	ug/L	94
63) 1,4-Dichlorobenzene	11.48	146	29992	3.607	ug/L	92
65) 1,2-Dichlorobenzene	11.85	146	357093	43.296	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.62	75	1824	1.040	ug/L #	10
68) 1,2,4-trichlorobenzene	13.48	180	4664	1.084	ug/L #	67
69) Naphthalene	13.72	128	2418948	162.466	ug/L	100

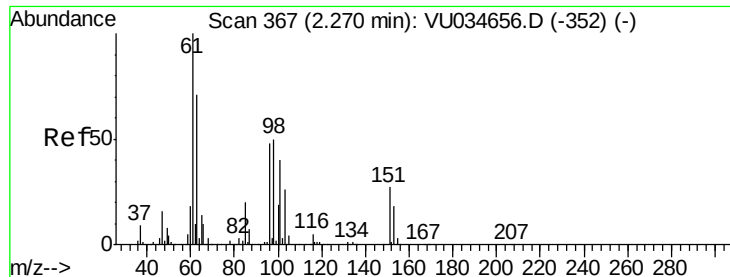
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.795 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

BFDH7

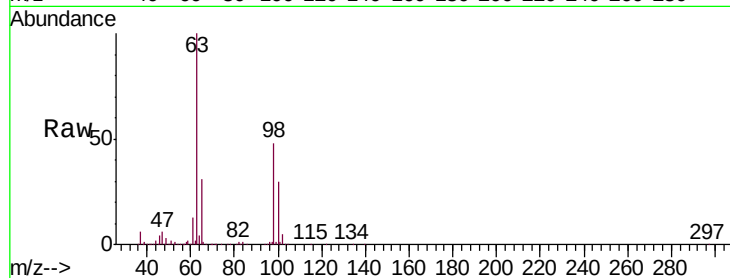
Tgt Ion:101 Resp: 2727

Ion Ratio Lower Upper

101 100

85 2.1 39.0 58.4#

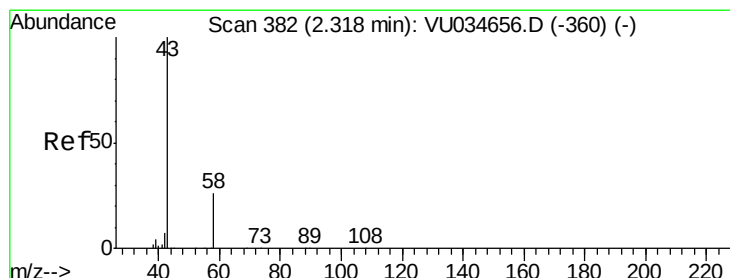
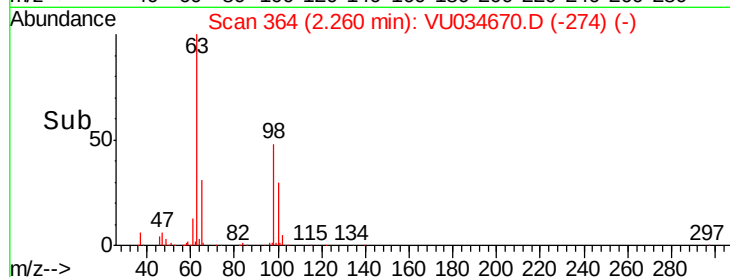
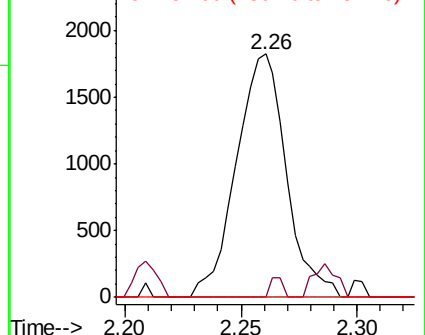
151 0.0 52.8 79.2#



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: 59.170 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034670.D

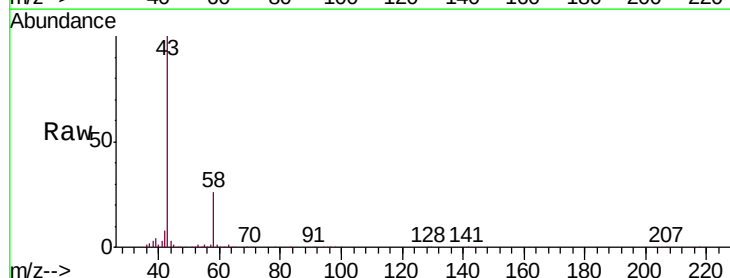
Acq: 20 Sep 2019 00:33

Tgt Ion: 43 Resp: 271896

Ion Ratio Lower Upper

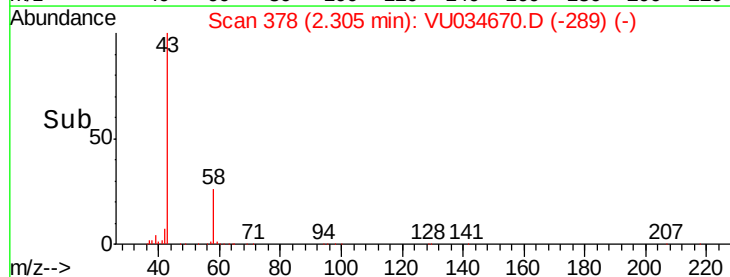
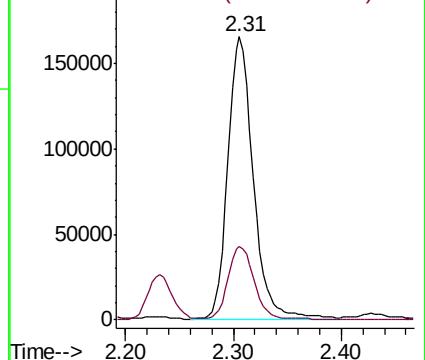
43 100

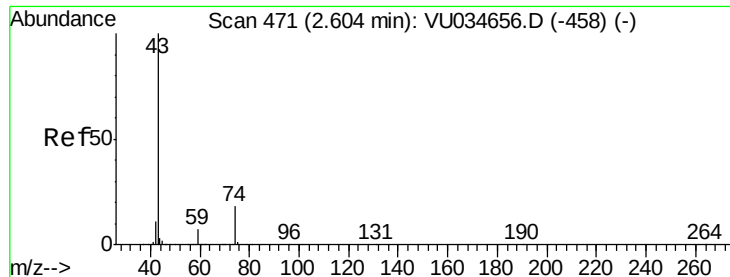
58 26.7 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

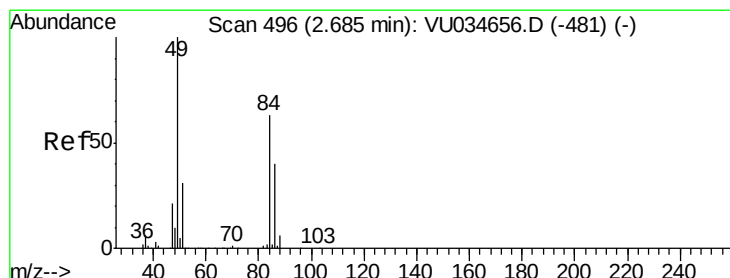
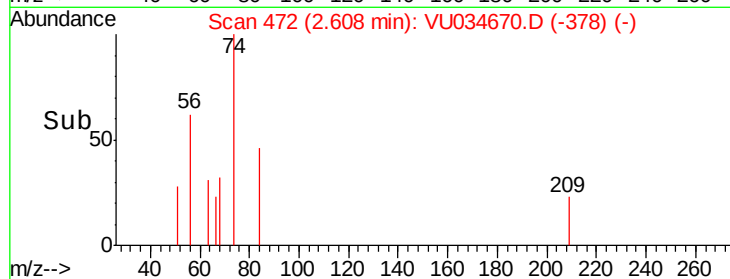
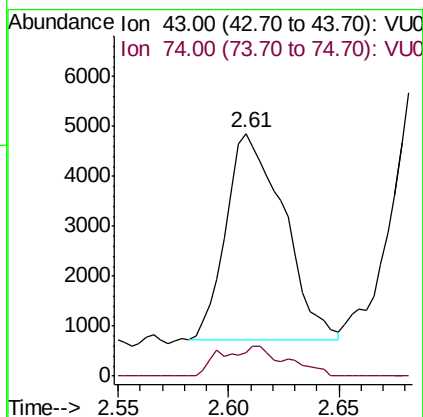
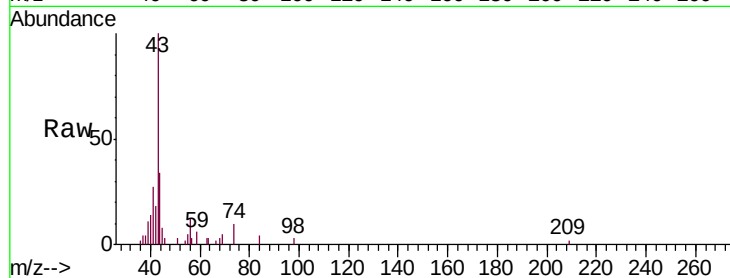




#15
Methyl Acetate
Concen: 1.219 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

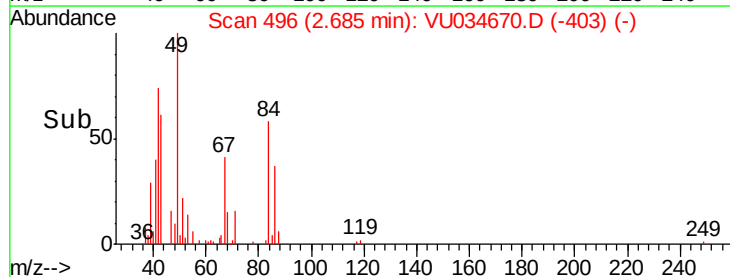
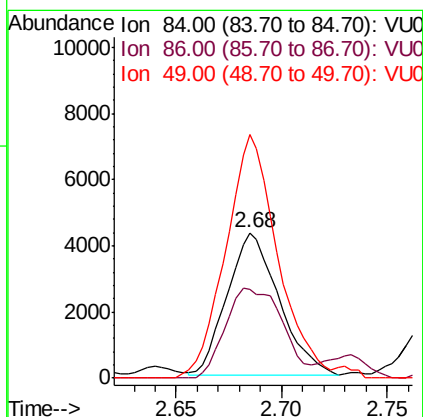
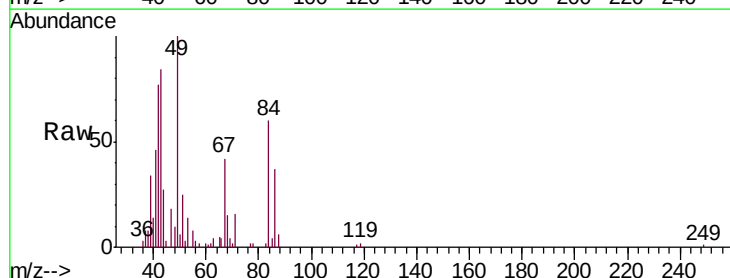
Instrument :
MSVOA_U
ClientSampleId :
BFDH7

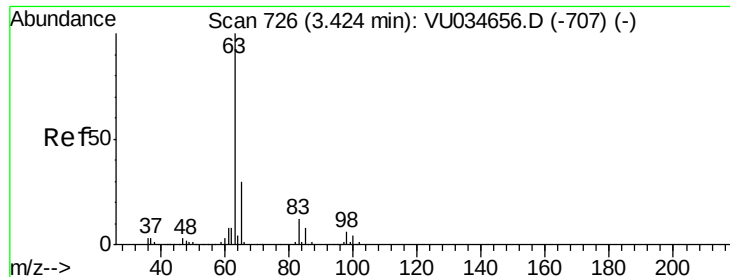
Tgt Ion: 43 Resp: 7482
Ion Ratio Lower Upper
43 100
74 3.8 14.4 21.6#



#16
Methylene chloride
Concen: 1.744 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

Tgt Ion: 84 Resp: 7277
Ion Ratio Lower Upper
84 100
86 61.3 43.0 80.0
49 167.2 109.7 203.7

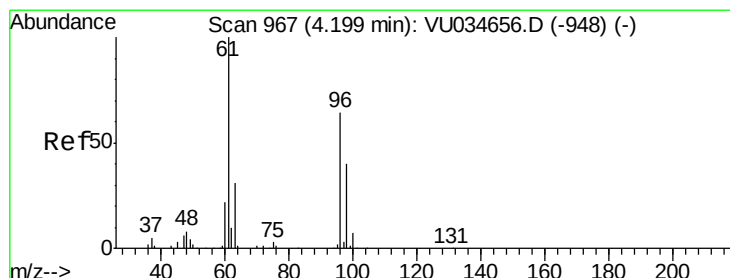
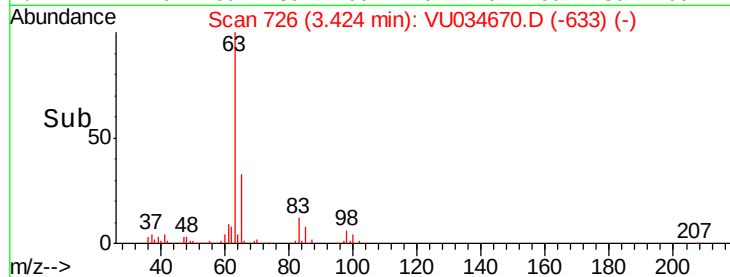
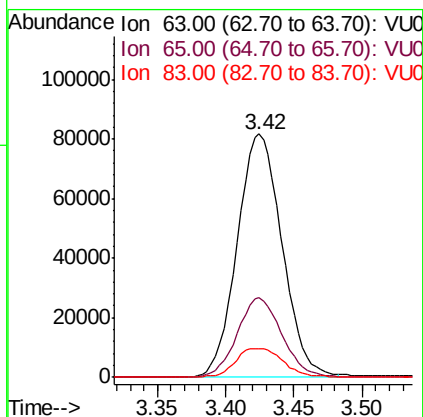
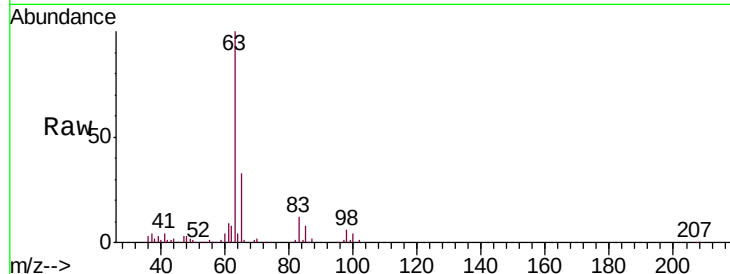




#19
 1,1-Dichloroethane
 Concen: 22.557 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

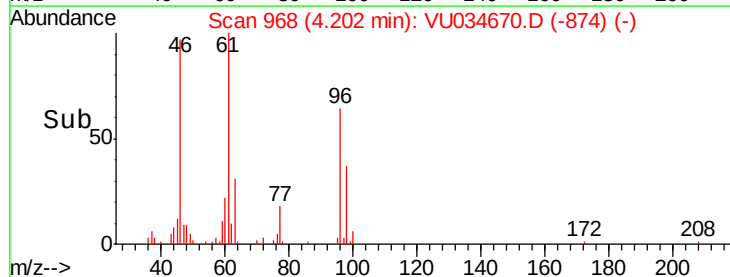
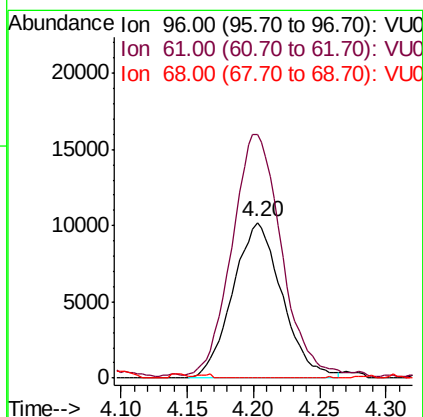
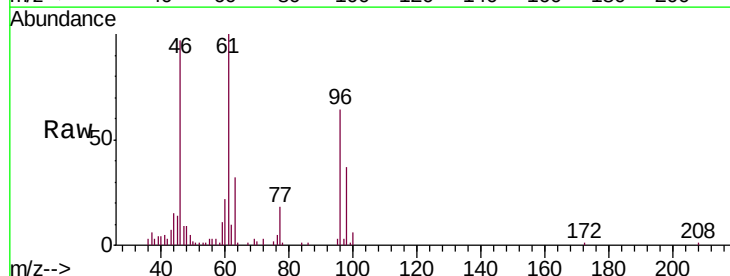
Instrument :
 MSVOA_U
 ClientSampled :
 BFDH7

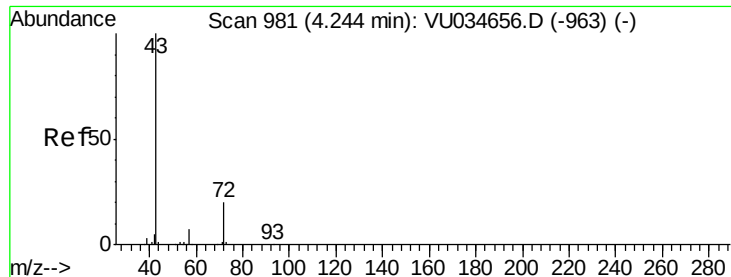
Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.0	22.0	40.8
83	11.8	8.9	16.5



#20
 cis-1,2-Dichloroethene
 Concen: 6.283 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.6	108.8	202.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 14.893 ug/L

RT: 4.24 min Scan# 981

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

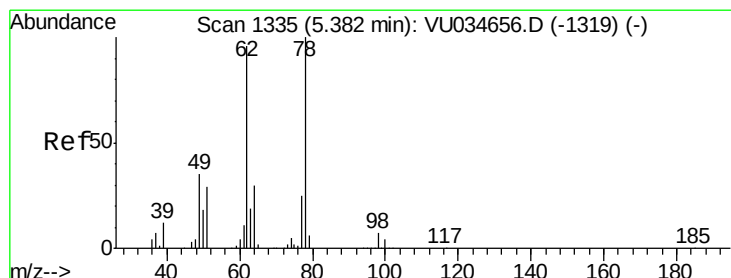
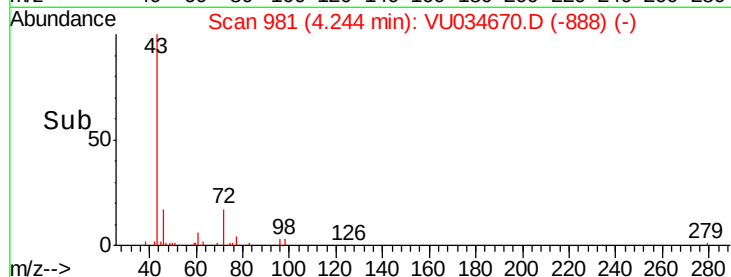
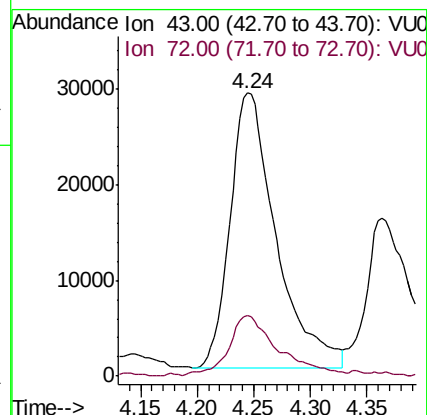
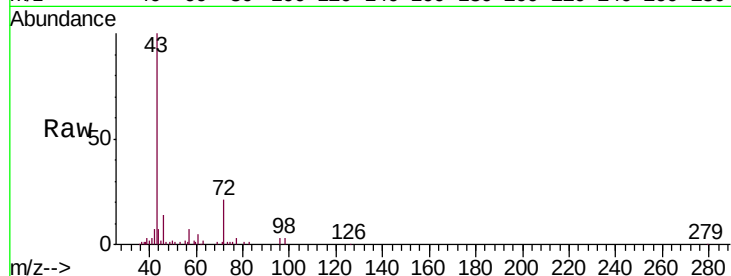
BFDH7

Tgt Ion: 43 Resp: 81419

Ion Ratio Lower Upper

43 100

72 23.9 10.2 30.6



#27

1,2-Dichloroethane

Concen: 2.228 ug/L

RT: 5.36 min Scan# 1329

Delta R.T. -0.02 min

Lab File: VU034670.D

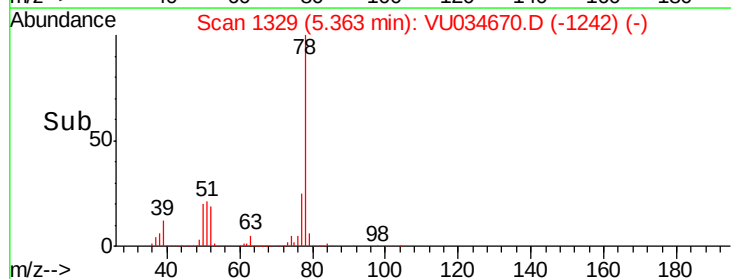
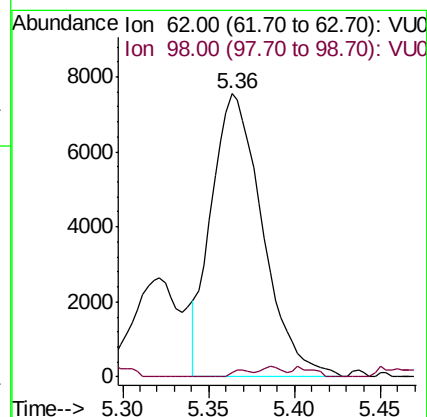
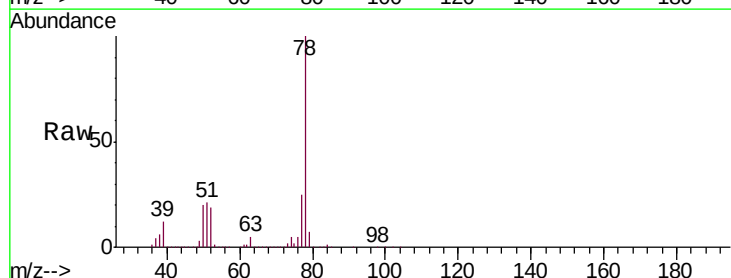
Acq: 20 Sep 2019 00:33

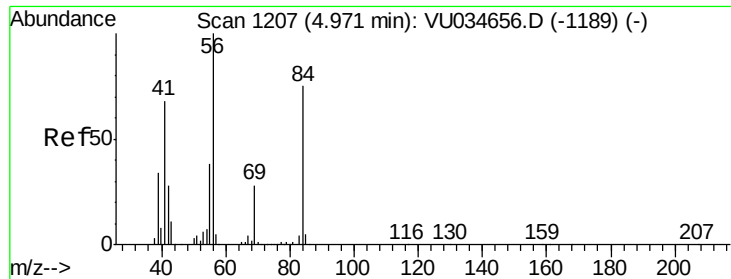
Tgt Ion: 62 Resp: 15658

Ion Ratio Lower Upper

62 100

98 1.5 5.3 7.9#

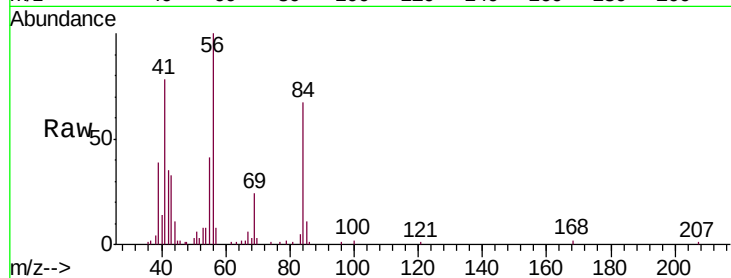




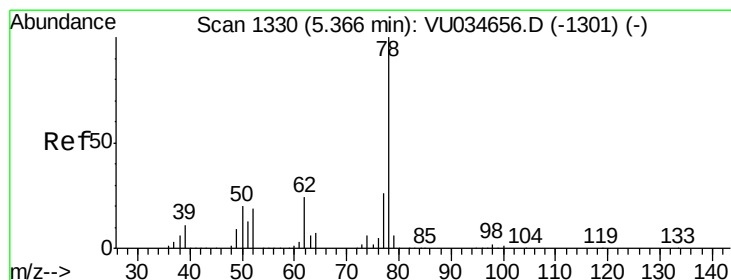
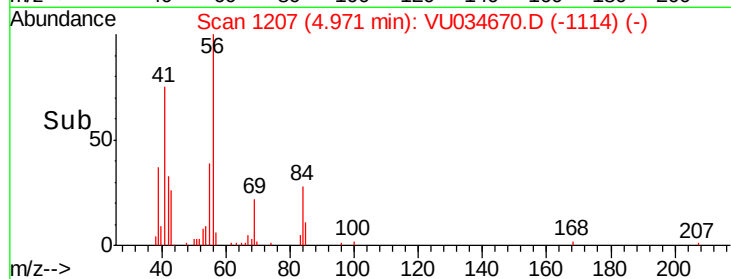
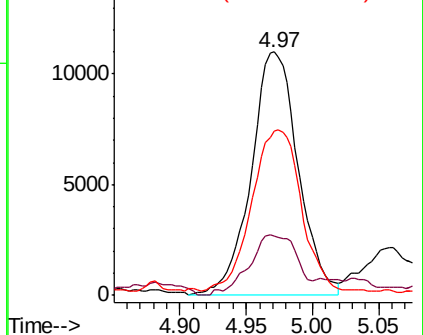
#29
Cyclohexane
Concen: 3.447 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

Instrument :
MSVOA_U
ClientSampleId :
BFDH7

Tgt Ion: 56 Resp: 27252
Ion Ratio Lower Upper
56 100
69 15.3 21.7 32.5#
84 69.7 58.8 88.2

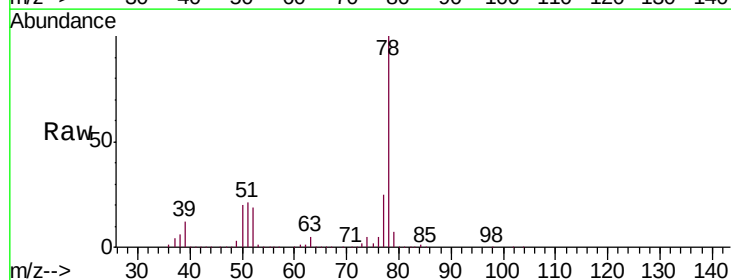


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

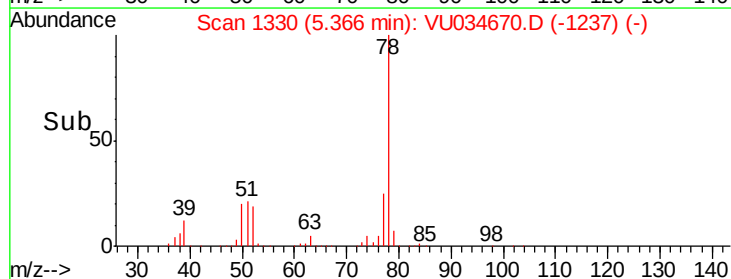
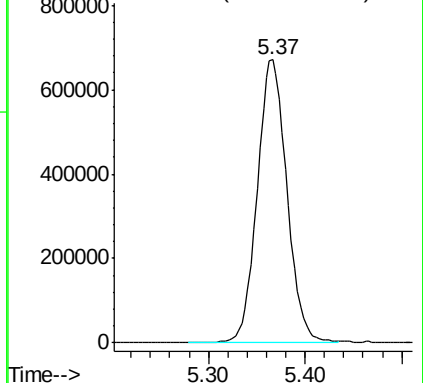


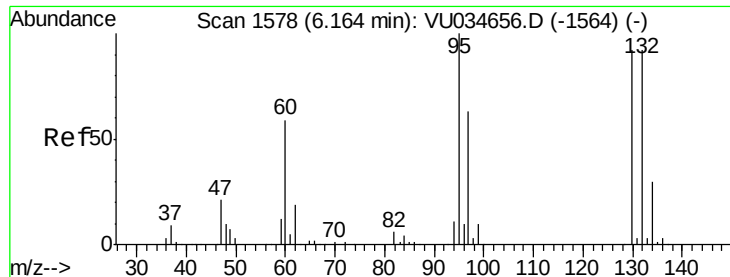
#33
Benzene
Concen: 86.049 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

Tgt Ion: 78 Resp: 1429529



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 4.966 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

BFDH7

Tgt Ion: 95 Resp: 20373

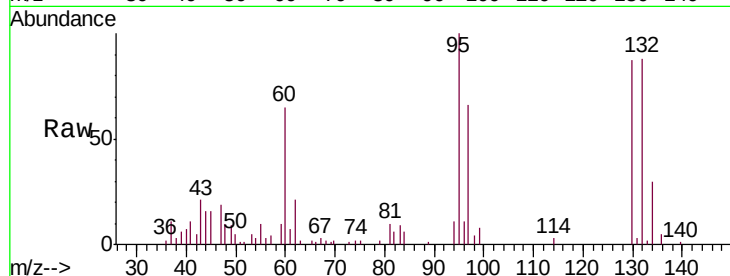
Ion Ratio Lower Upper

95 100

97 65.6 43.7 81.1

132 88.2 61.0 113.2

130 87.4 65.7 121.9

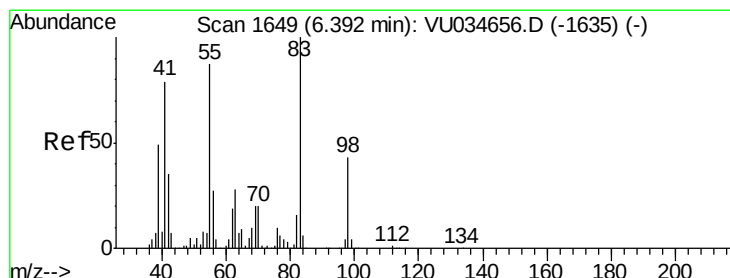
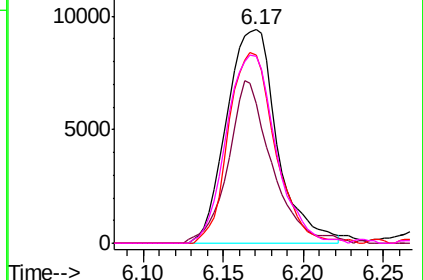
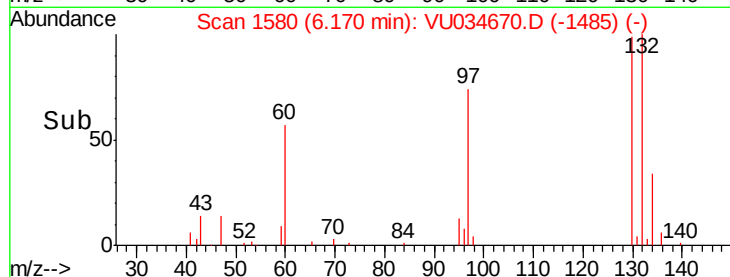


Abundance Ion 95.00 (94.70 to 95.70): VU034670.D (-1580) (-)

Ion 97.00 (96.70 to 97.70): VU034670.D (-1580) (-)

Ion 132.00 (131.70 to 132.70): VU034670.D (-1580) (-)

Ion 130.00 (129.70 to 130.70): VU034670.D (-1580) (-)



#35

Methylcyclohexane

Concen: 2.670 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

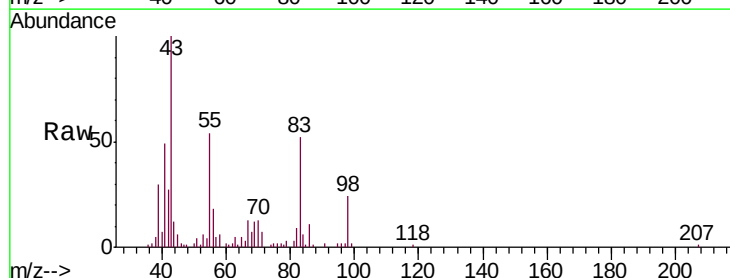
Tgt Ion: 83 Resp: 18588

Ion Ratio Lower Upper

83 100

55 110.0 71.6 107.4#

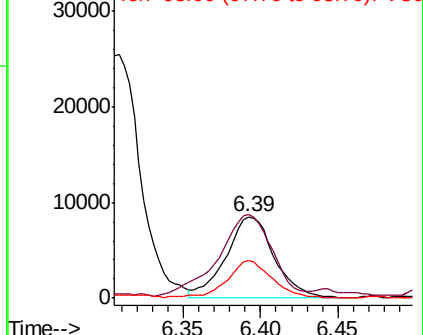
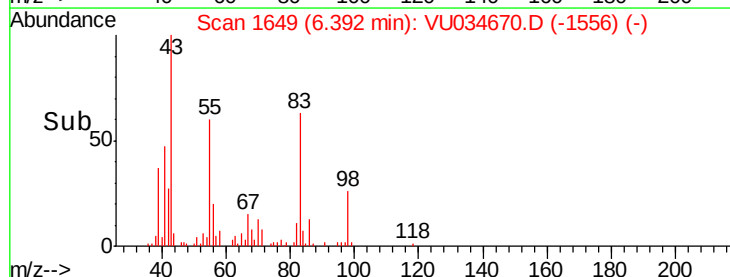
98 41.2 35.7 53.5

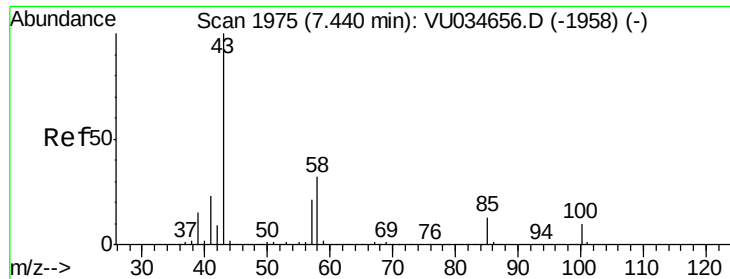


Abundance Ion 83.00 (82.70 to 83.70): VU034670.D (-1649) (-)

Ion 55.00 (54.70 to 55.70): VU034670.D (-1649) (-)

Ion 98.00 (97.70 to 98.70): VU034670.D (-1649) (-)

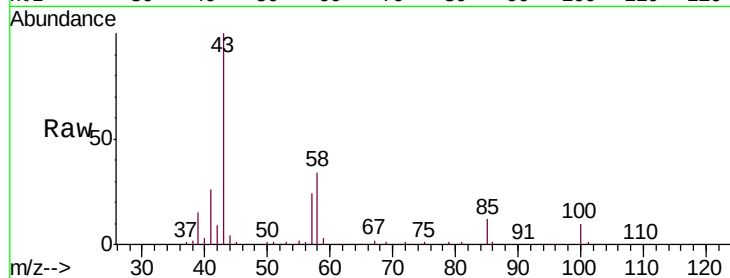




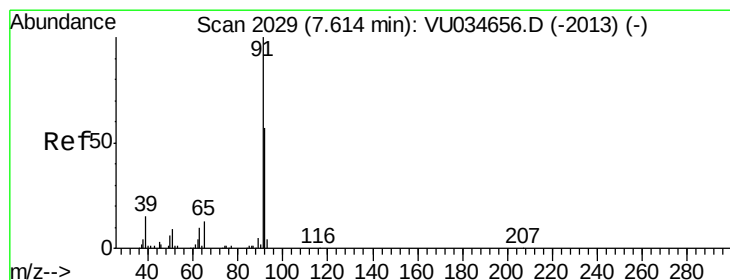
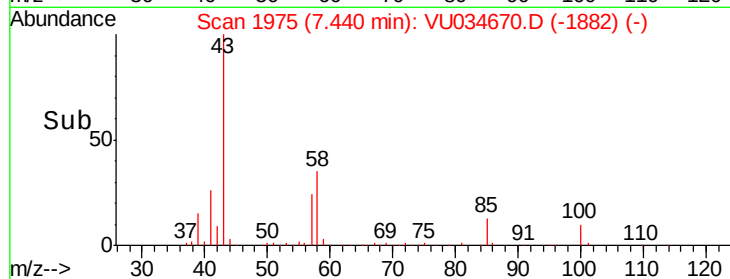
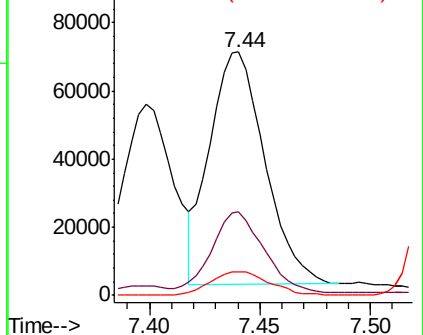
#40
 4-Methyl-2-pentanone
 Concen: 12.566 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH7

Tgt Ion: 43 Resp: 118673
 Ion Ratio Lower Upper
 43 100
 58 33.0 25.2 37.8
 100 10.8 7.7 11.5

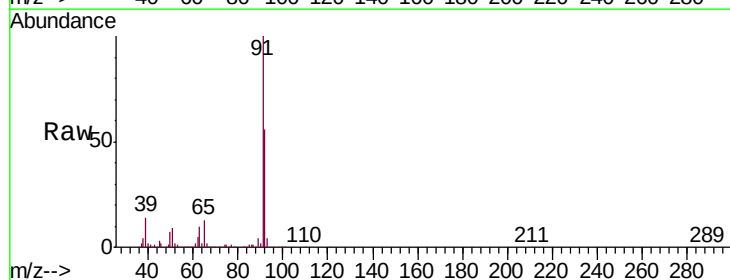


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

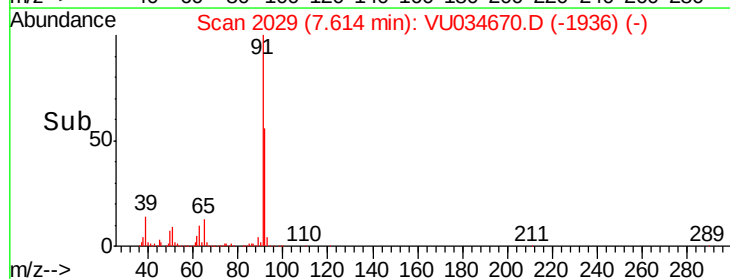
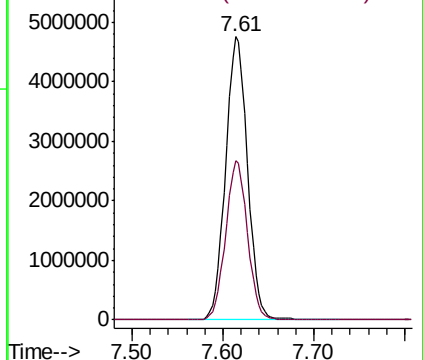


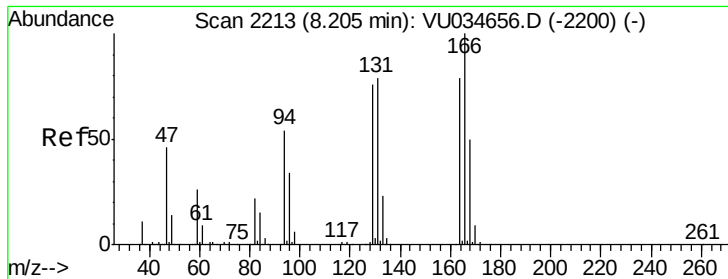
#42
 Toluene
 Concen: 444.684 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

Tgt Ion: 91 Resp: 7983841
 Ion Ratio Lower Upper
 91 100
 92 56.1 38.2 71.0



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

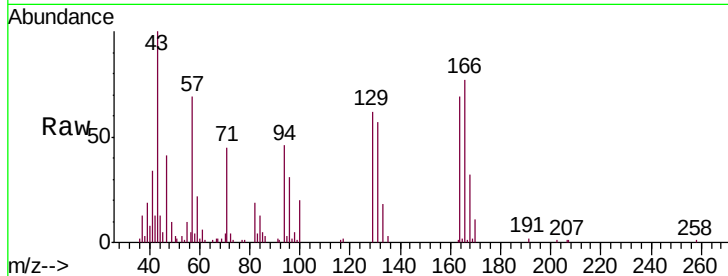




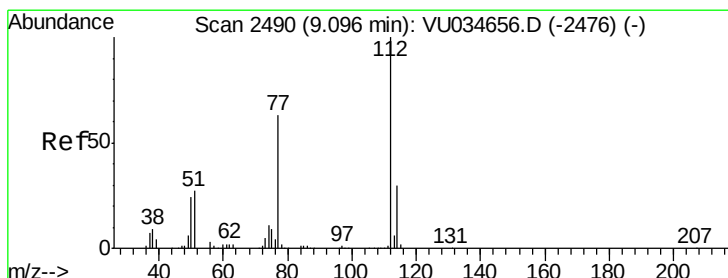
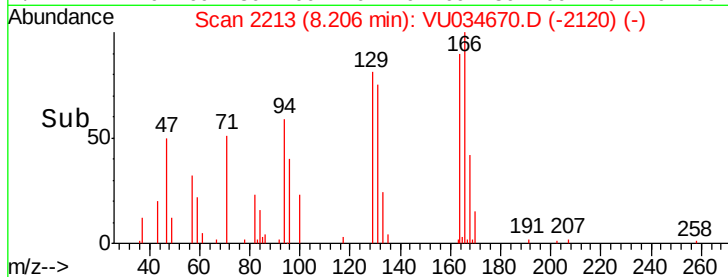
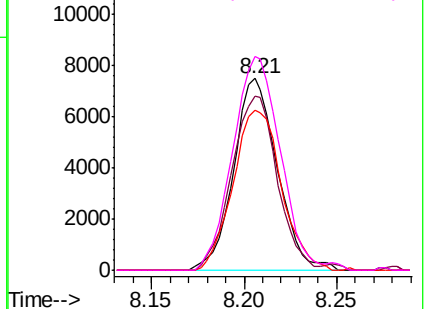
#46
Tetrachloroethene
Concen: 4.241 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

Instrument :
MSVOA_U
ClientSampleId :
BFDH7

Tgt Ion:164 Resp: 12239
Ion Ratio Lower Upper
164 100
129 90.6 71.9 133.5
131 83.3 66.3 123.1
166 111.4 93.4 173.6

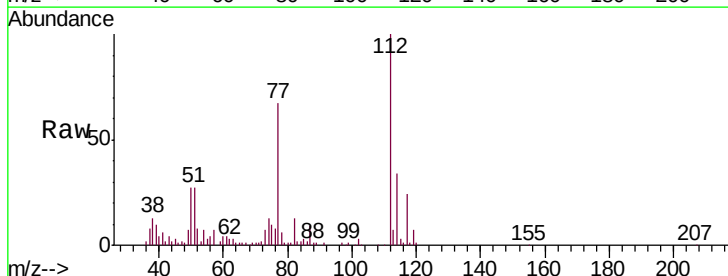


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

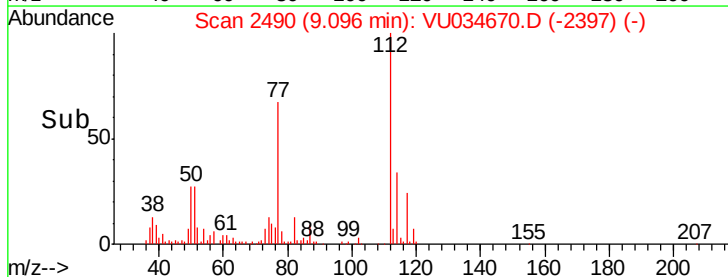
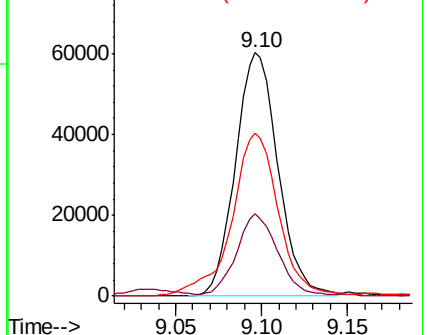


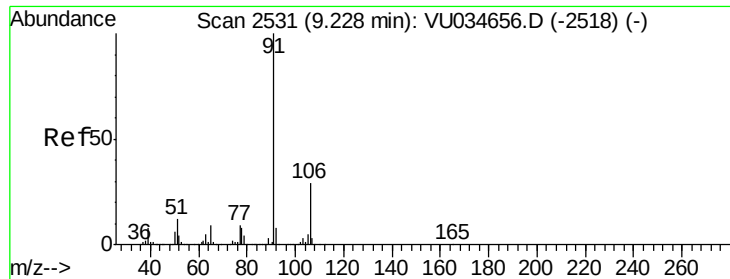
#51
Chlorobenzene
Concen: 9.461 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034670.D
Acq: 20 Sep 2019 00:33

Tgt Ion:112 Resp: 103256
Ion Ratio Lower Upper
112 100
114 33.8 22.8 42.4
77 66.7 51.5 77.3



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 78.188 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

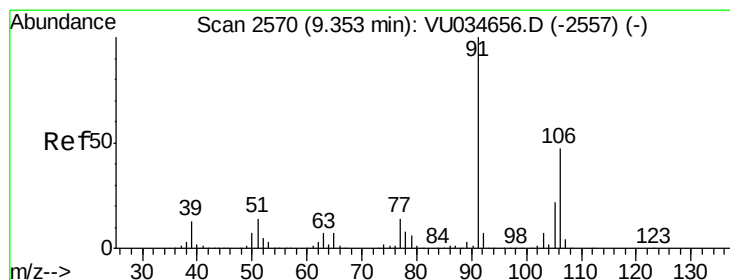
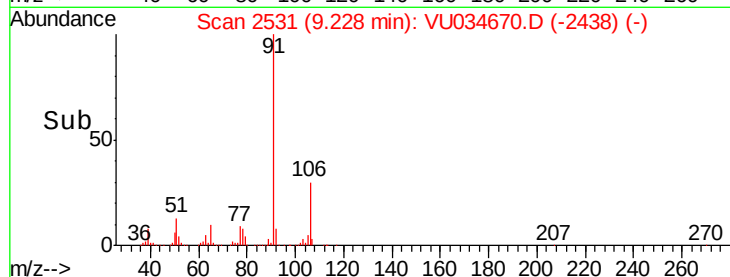
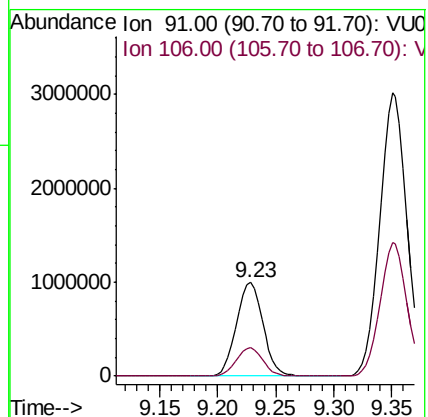
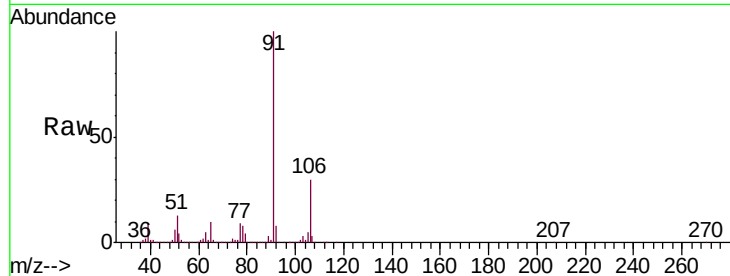
BFDH7

Tgt Ion: 91 Resp: 1580768

Ion Ratio Lower Upper

91 100

106 30.1 20.6 38.4



#53

m,p-Xylene

Concen: 323.848 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034670.D

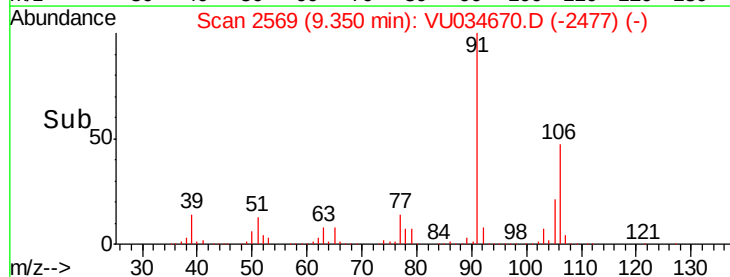
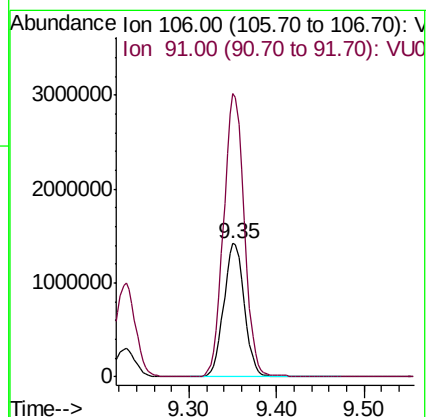
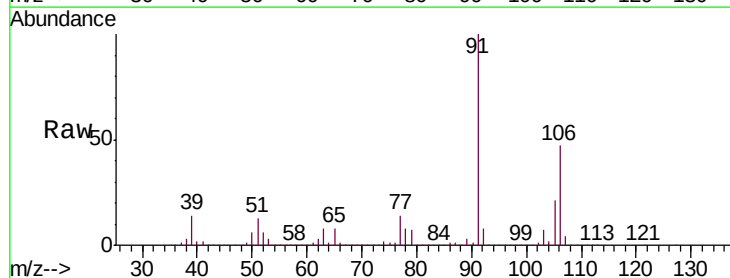
Acq: 20 Sep 2019 00:33

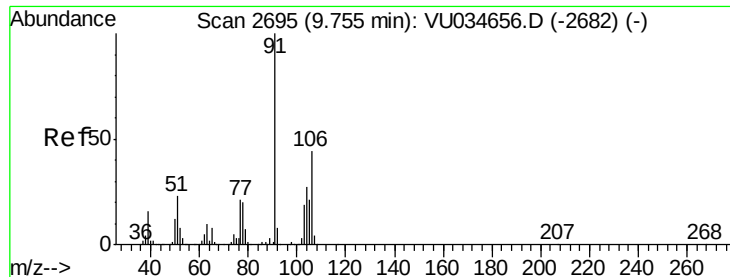
Tgt Ion: 106 Resp: 2319069

Ion Ratio Lower Upper

106 100

91 212.8 146.9 272.7





#54

o-xylene

Concen: 180.374 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

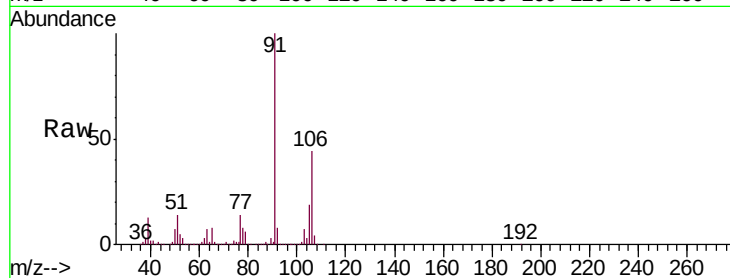
BFDH7

Tgt Ion:106 Resp: 1277559

Ion Ratio Lower Upper

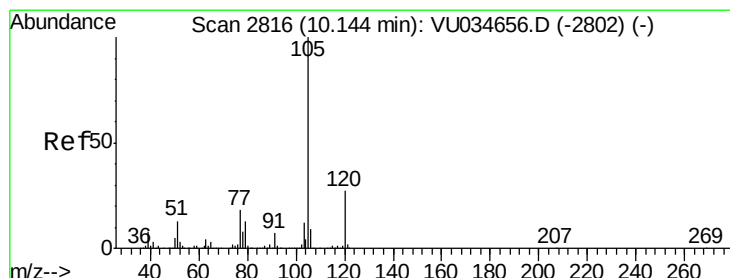
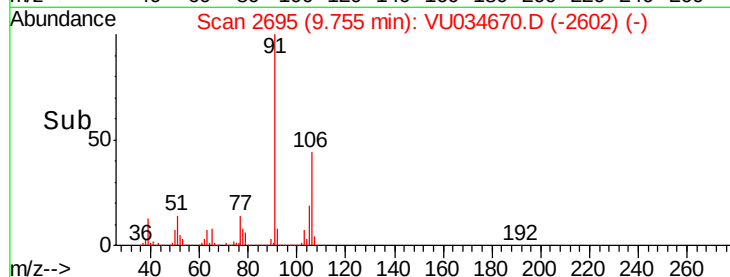
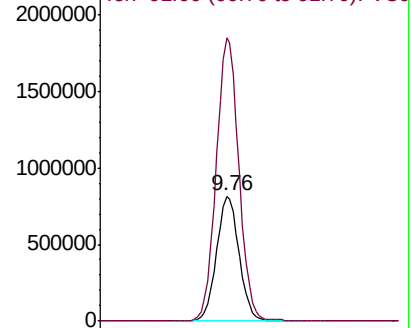
106 100

91 226.9 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 6.203 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

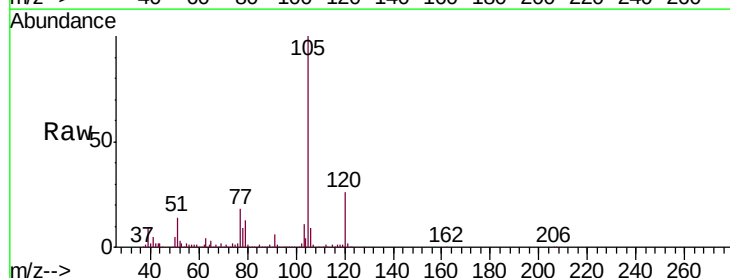
Tgt Ion:105 Resp: 118454

Ion Ratio Lower Upper

105 100

120 25.5 20.4 30.6

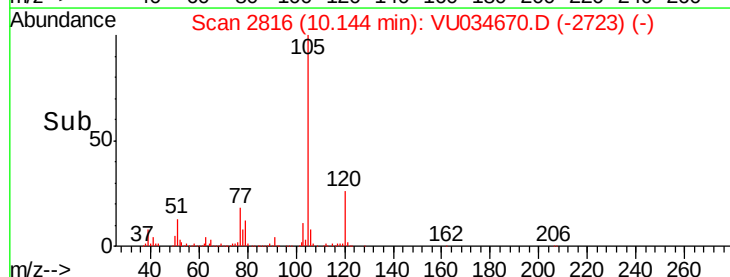
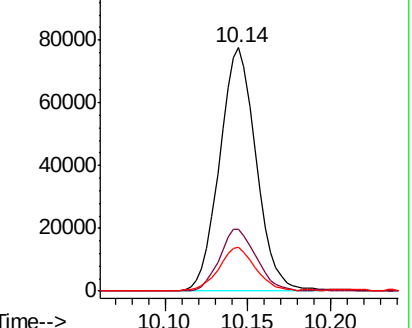
77 18.2 14.2 21.4

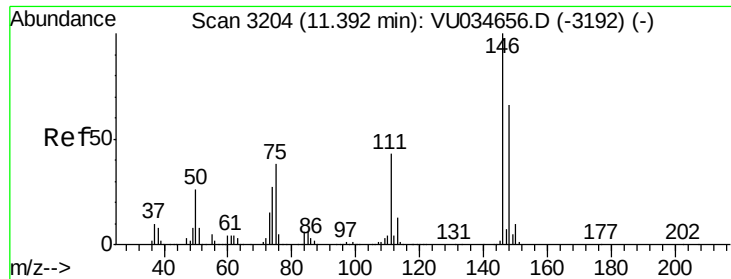


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

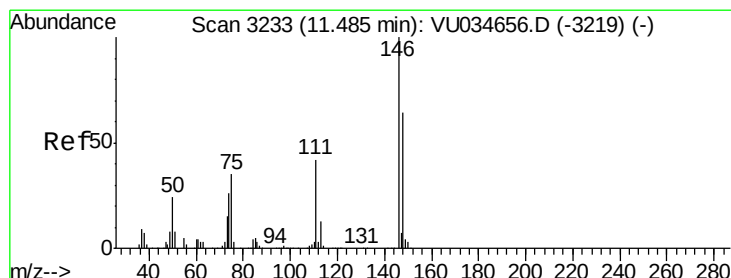
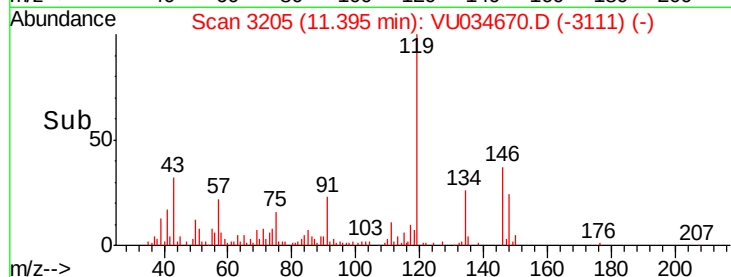
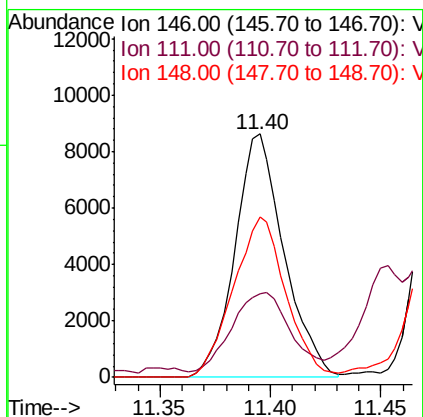
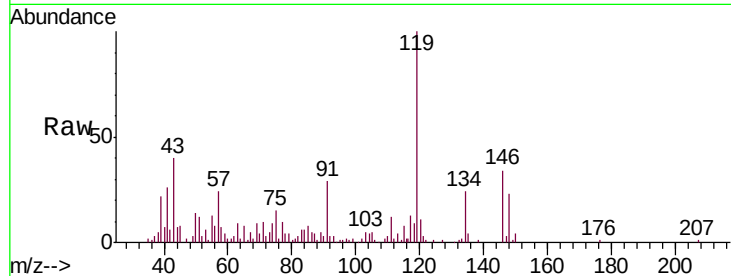




#62
 1,3-Dichlorobenzene
 Concen: 1.636 ug/L
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

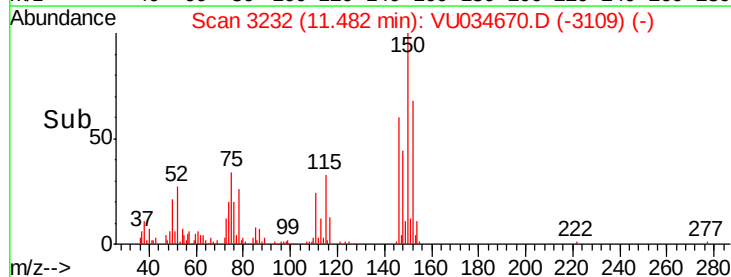
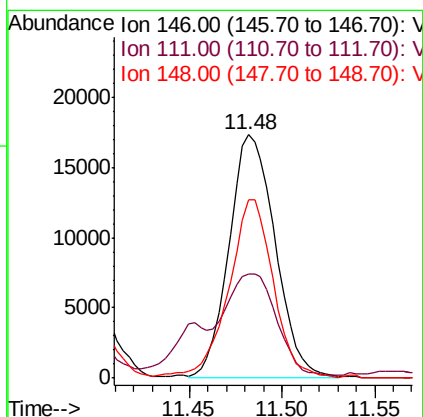
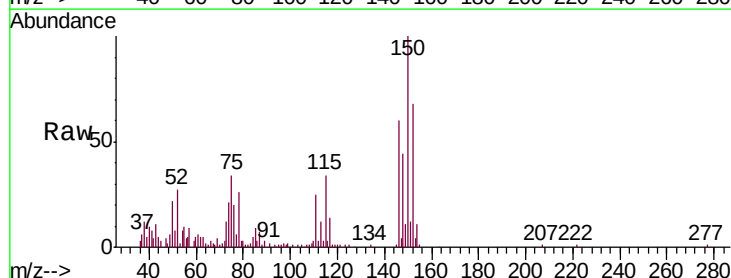
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH7

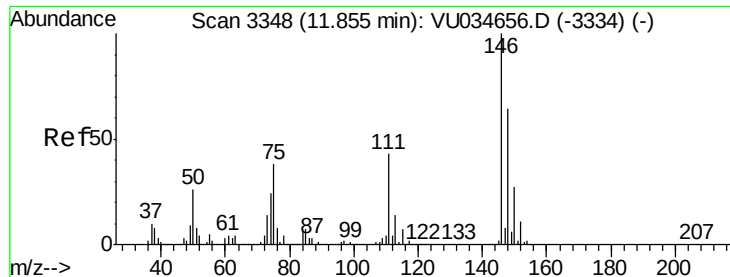
Tgt Ion:146 Resp: 13352
 Ion Ratio Lower Upper
 146 100
 111 34.5 30.4 56.5
 148 65.9 46.1 85.7



#63
 1,4-Dichlorobenzene
 Concen: 3.607 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: VU034670.D
 Acq: 20 Sep 2019 00:33

Tgt Ion:146 Resp: 29992
 Ion Ratio Lower Upper
 146 100
 111 42.6 29.5 54.9
 148 73.4 44.4 82.4





#65

1,2-Dichlorobenzene

Concen: 43.296 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

Instrument :

MSVOA_U

ClientSampleId :

BFDH7

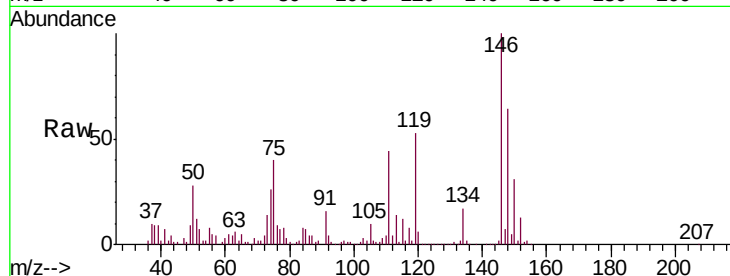
Tgt Ion:146 Resp: 357093

Ion Ratio Lower Upper

146 100

111 43.7 35.2 52.8

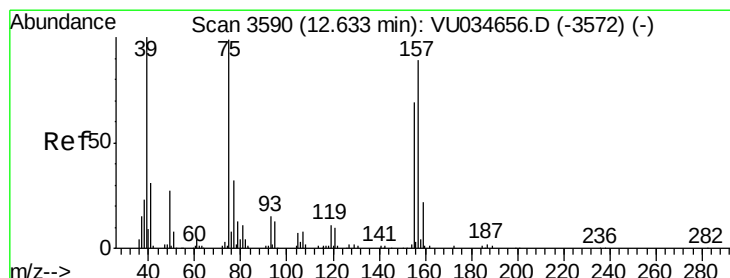
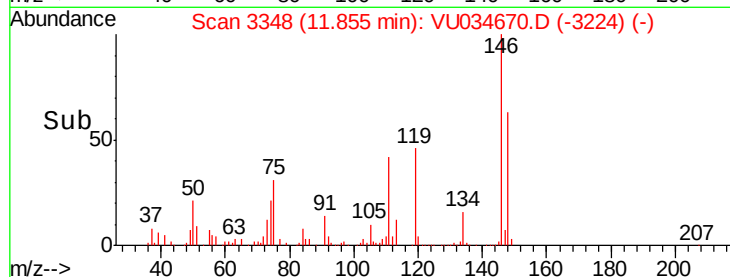
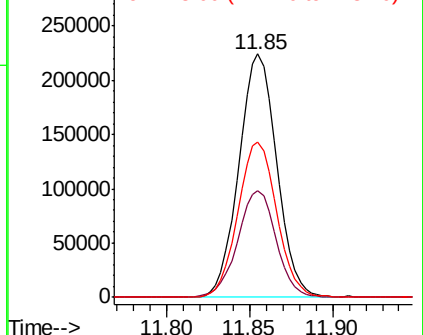
148 63.7 53.0 79.6



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: 1.040 ug/L

RT: 12.62 min Scan# 3587

Delta R.T. -0.01 min

Lab File: VU034670.D

Acq: 20 Sep 2019 00:33

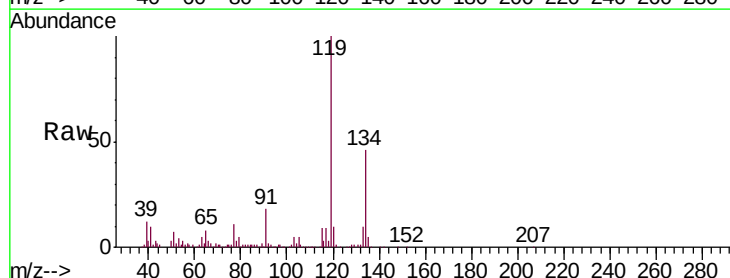
Tgt Ion: 75 Resp: 1824

Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

157 0.0 69.9 104.9#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

