

Data File : VU033497.D
Acq On : 30 Jul 2019 16:54
Operator : JC/SP
Sample : VIBLK40
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VIBLK40

Quant Time: Jul 31 08:07:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:02:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	349690	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	339829	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	167349	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	117691	46.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.58%
7) Chloroethane-d5	1.67	69	110011	50.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.86%
11) 1,1-Dichloroethene-d2	2.26	63	153847	33.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.68%
21) 2-Butanone-d5	4.16	46	163931	97.35	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.35%
24) Chloroform-d	4.62	84	192647	45.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.29	65	125742	46.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.18%
32) Benzene-d6	5.32	84	401591	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
36) 1,2-Dichloropropane-d6	6.31	67	127477	48.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.54%
41) Toluene-d8	7.55	98	368269	46.65	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.30%
43) trans-1,3-Dichloropropene-	7.83	79	61407	46.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.76%
47) 2-Hexanone-d5	8.30	63	123476	98.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.48%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	185294	45.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.00%
64) 1,2-Dichlorobenzene-d4	11.84	152	146821	47.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.82%

Target Compounds

					Qvalue	
8) Chloroethane	1.55	64	11367	5.253	ug/L #	57
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2608	1.104	ug/L #	53
12) 1,1-Dichloroethene	2.26	96	2280	1.007	ug/L #	1
13) Acetone	2.33	43	1156	0.671	ug/L	88
14) Carbon disulfide	2.46	76	12508	1.761	ug/L #	94
17) trans-1,2-Dichloroethene	2.97	96	1989	0.838	ug/L	87
40) 4-Methyl-2-pentanone	7.45	43	3945	1.089	ug/L #	90
42) Toluene	7.62	91	3772	0.358	ug/L	92
44) trans-1,3-Dichloropropene	7.83	75	3035	0.820	ug/L	93
46) Tetrachloroethene	8.22	164	1469	0.696	ug/L	79
48) 2-Hexanone	8.35	43	5337	1.822	ug/L #	79
51) Chlorobenzene	9.10	112	3745	0.543	ug/L	95
52) Ethylbenzene	9.24	91	5188	0.457	ug/L	98
53) m,p-Xylene	9.36	106	2335	0.536	ug/L	72
55) Styrene	9.78	104	3848	0.536	ug/L	98
56) Isopropylbenzene	10.15	105	5203	0.471	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	2994	0.666	ug/L	94

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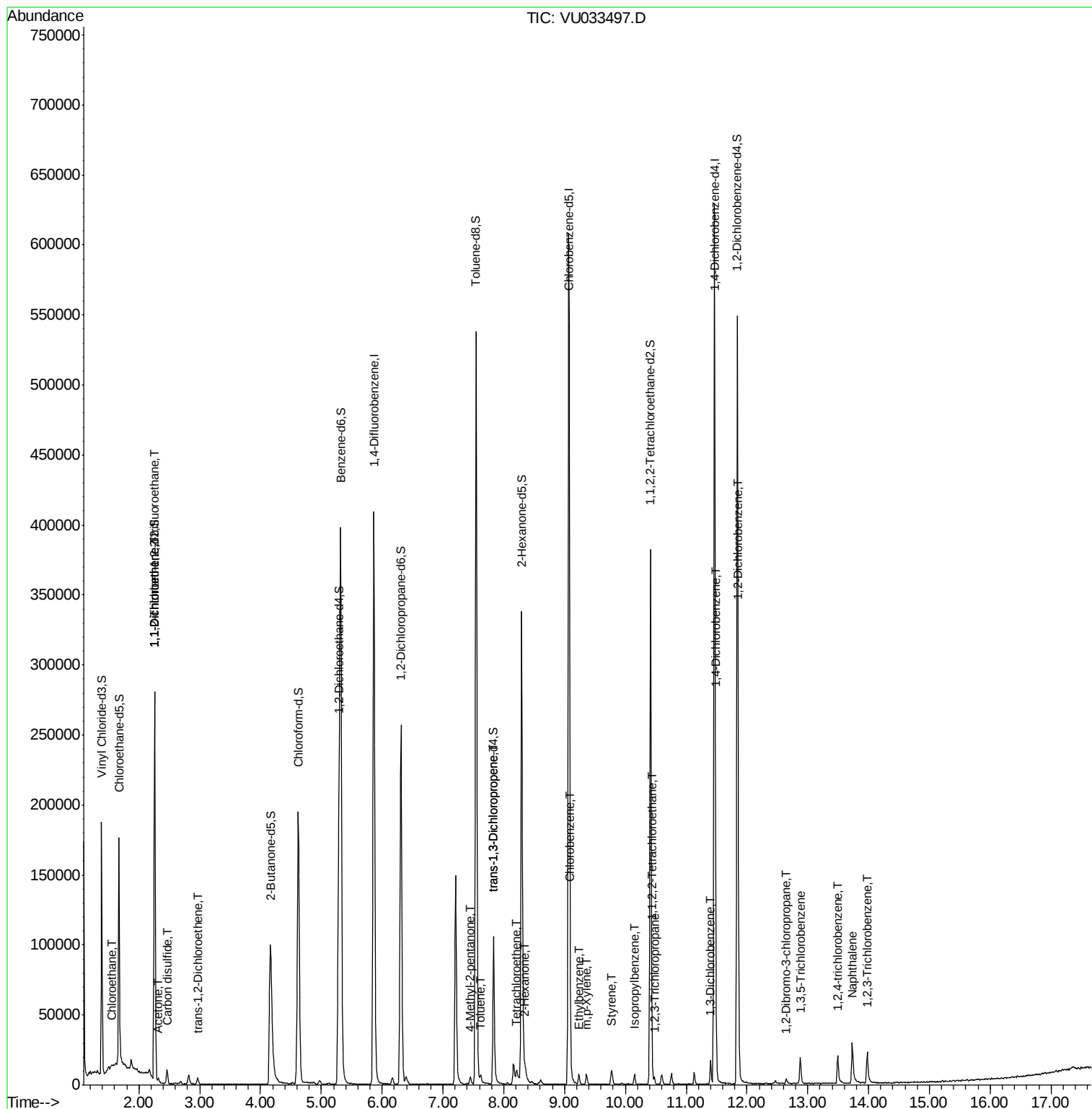
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	10.48	75	2140	0.618	ug/L	96
62) 1,3-Dichlorobenzene	11.40	146	7253	1.411	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	8532	1.598	ug/L	92
65) 1,2-Dichlorobenzene	11.86	146	6758	1.300	ug/L #	94
66) 1,2-Dibromo-3-chloropropan	12.65	75	1283	1.336	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.88	180	6743	1.626	ug/L	90
68) 1,2,4-trichlorobenzene	13.49	180	7267	2.051	ug/L	93
69) Naphthalene	13.73	128	30458	2.996	ug/L	96
70) 1,2,3-Trichlorobenzene	13.98	180	9607	2.578	ug/L	91

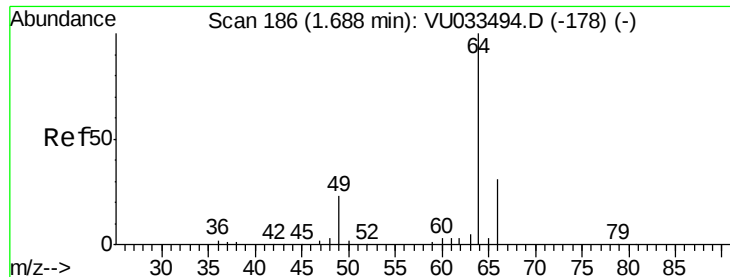
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 5.253 ug/L

RT: 1.55 min Scan# 143

Delta R.T. -0.14 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampled :

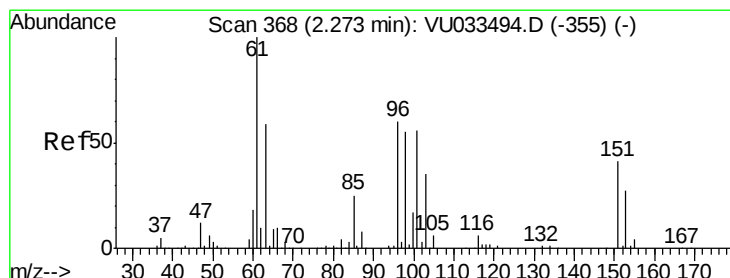
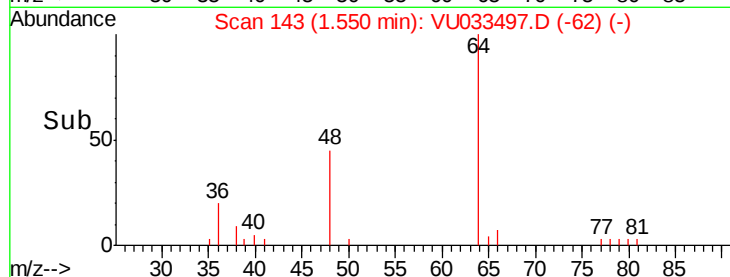
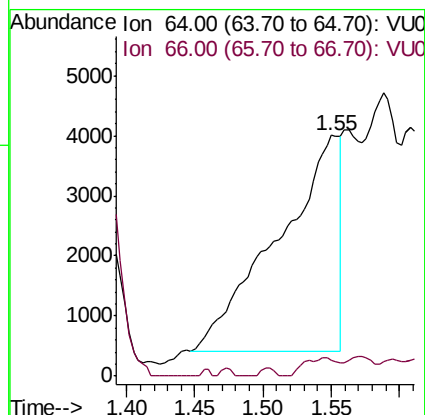
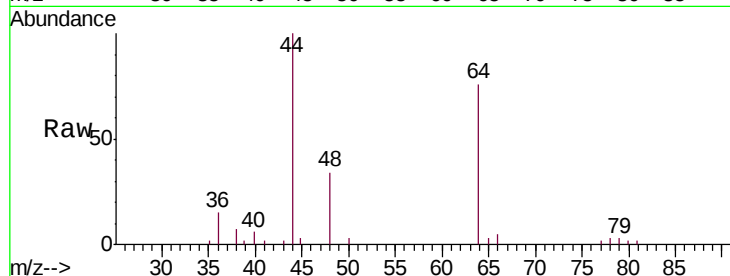
VIBLK40

Tgt Ion: 64 Resp: 11367

Ion Ratio Lower Upper

64 100

66 6.6 21.1 39.3#



#10

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

Concen: 1.104 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

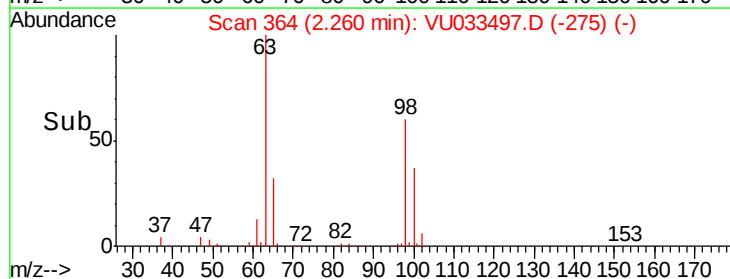
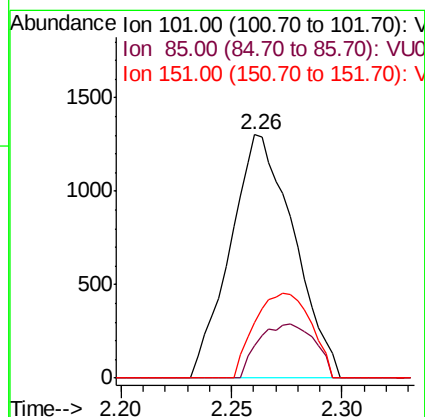
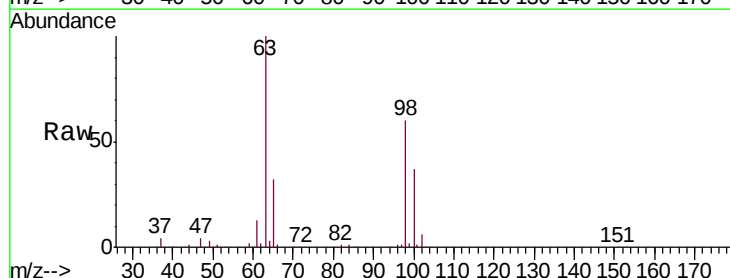
Tgt Ion: 101 Resp: 2608

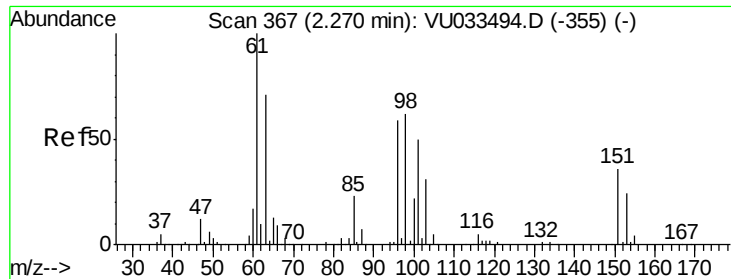
Ion Ratio Lower Upper

101 100

85 19.6 35.8 53.8#

151 30.9 60.1 90.1#

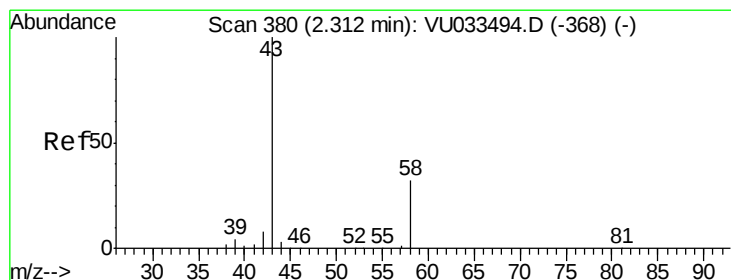
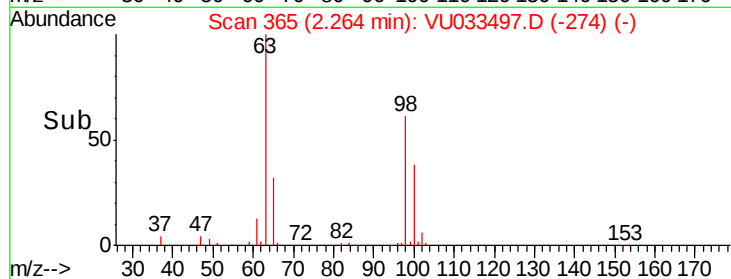
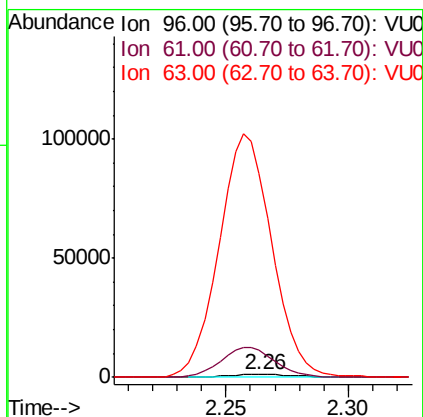
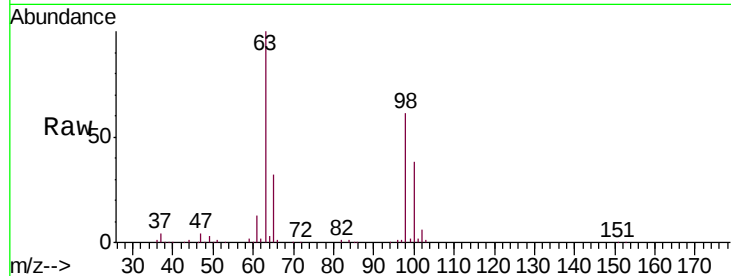




#12
 1,1-Dichloroethene
 Concen: 1.007 ug/L
 RT: 2.26 min Scan# 365
 Delta R.T. -0.01 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

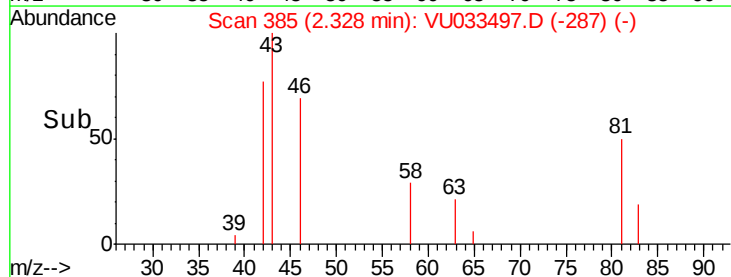
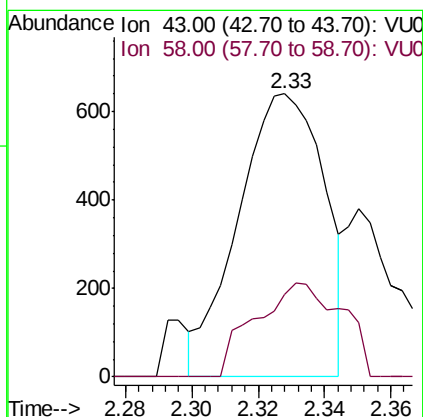
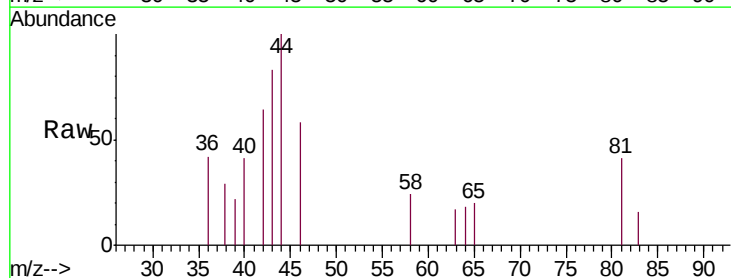
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

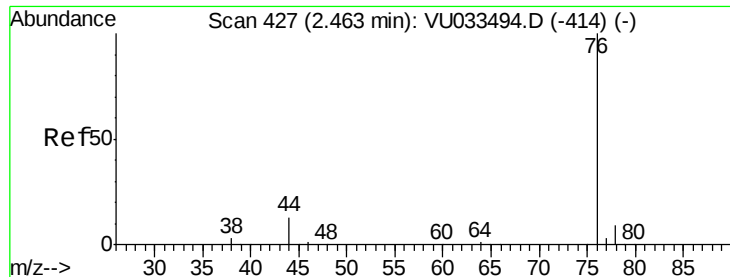
Tgt Ion: 96 Resp: 2280
 Ion Ratio Lower Upper
 96 100
 61 962.5 119.3 221.5#
 63 7285.1 86.6 160.8#



#13
 Acetone
 Concen: 0.671 ug/L
 RT: 2.33 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

Tgt Ion: 43 Resp: 1156
 Ion Ratio Lower Upper
 43 100
 58 26.4 0.0 66.2





#14

Carbon disulfide

Concen: 1.761 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

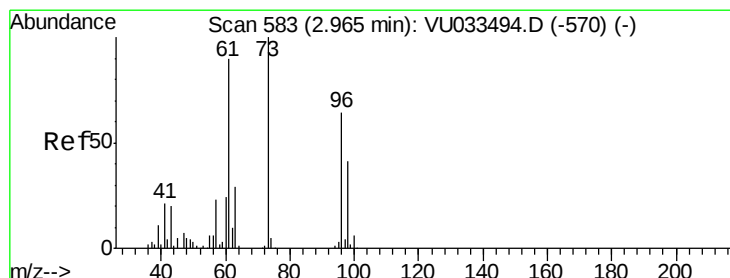
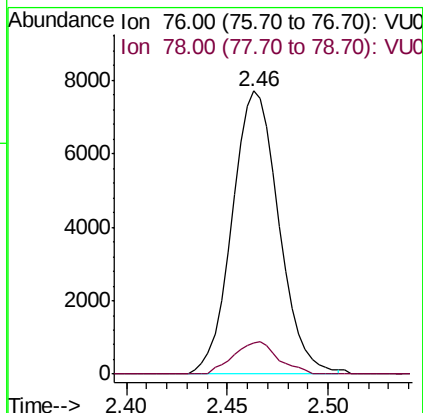
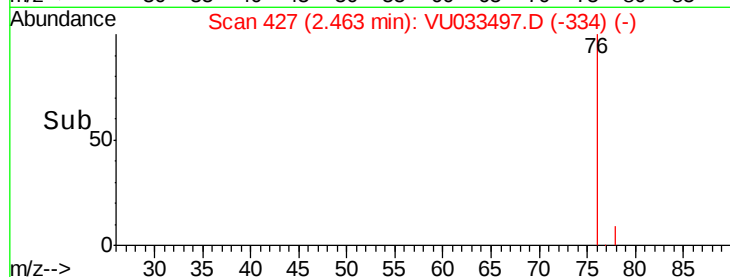
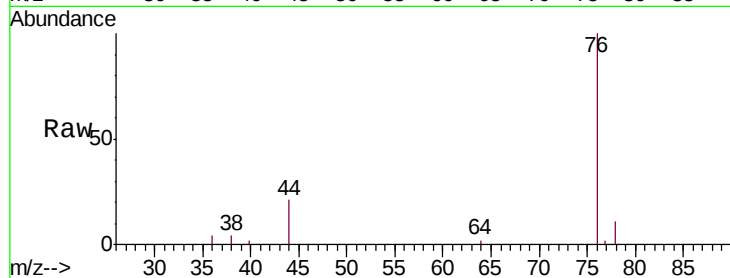
VIBLK40

Tgt Ion: 76 Resp: 12508

Ion Ratio Lower Upper

76 100

78 11.2 7.4 11.0#



#17

trans-1,2-Dichloroethene

Concen: 0.838 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

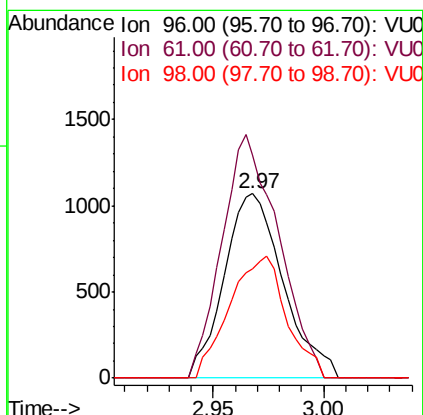
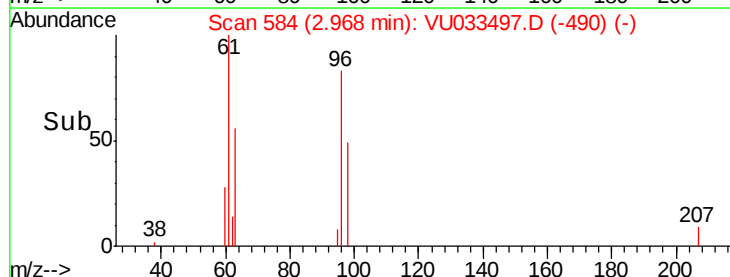
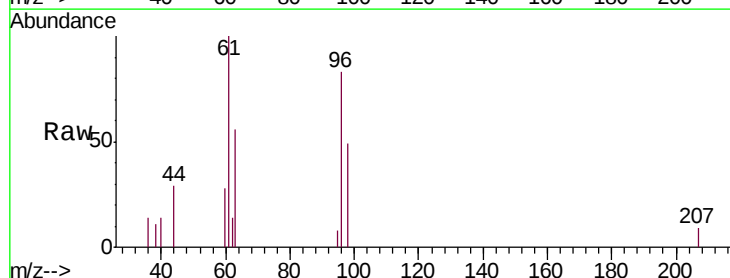
Tgt Ion: 96 Resp: 1989

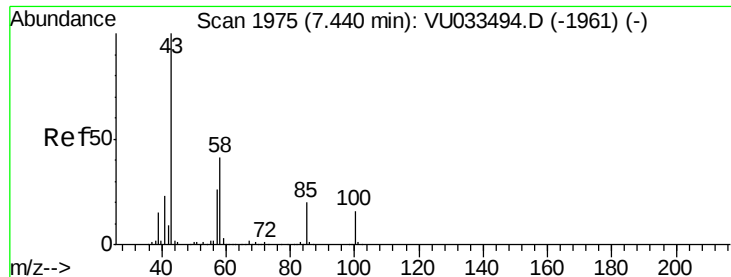
Ion Ratio Lower Upper

96 100

61 120.7 98.3 182.5

98 58.9 44.3 82.3

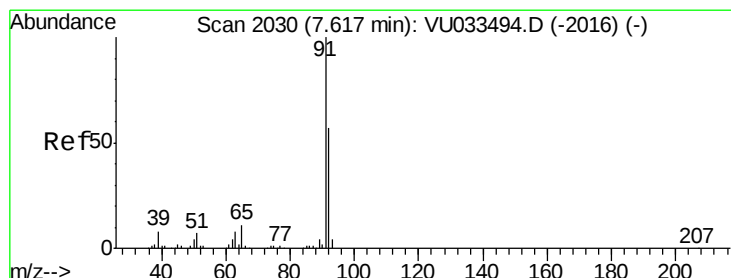
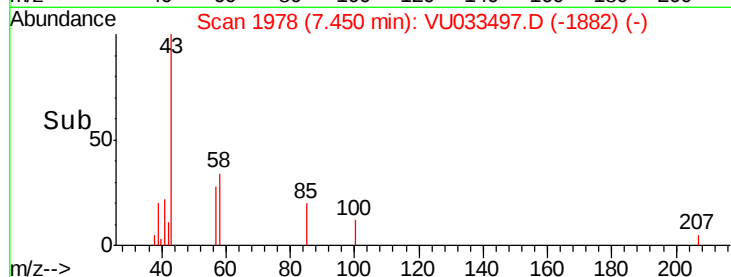
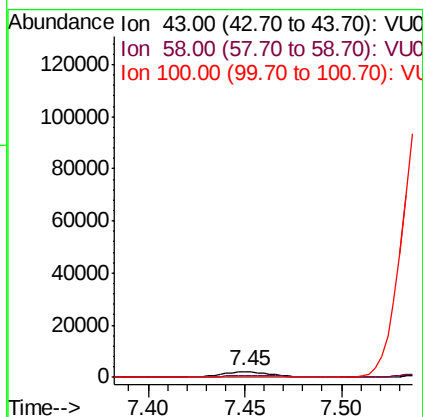
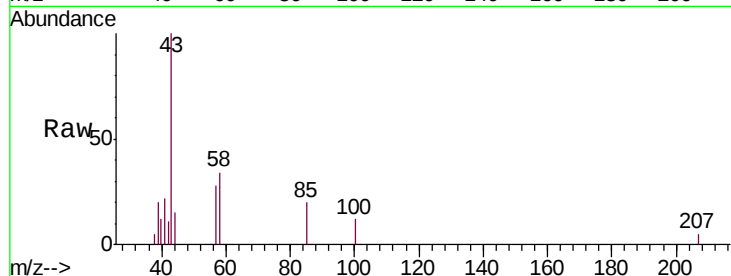




#40
 4-Methyl-2-pentanone
 Concen: 1.089 ug/L
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

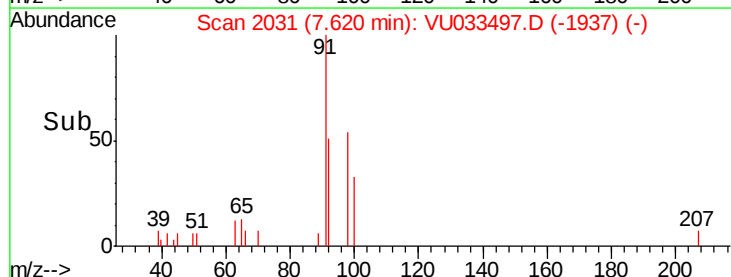
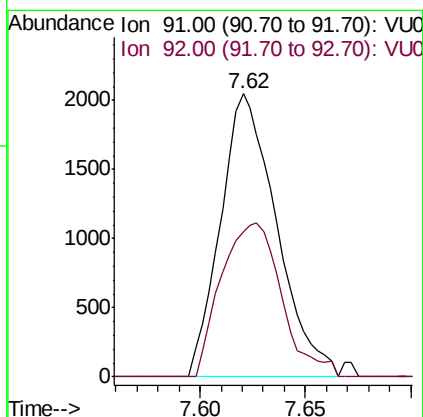
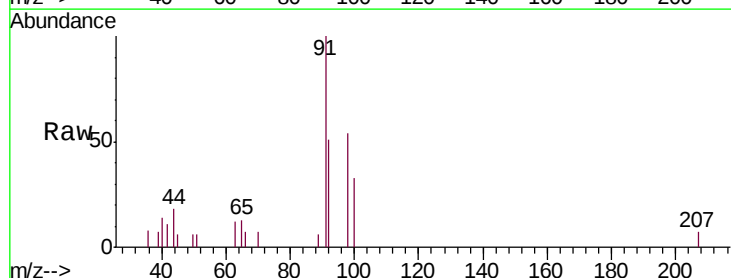
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

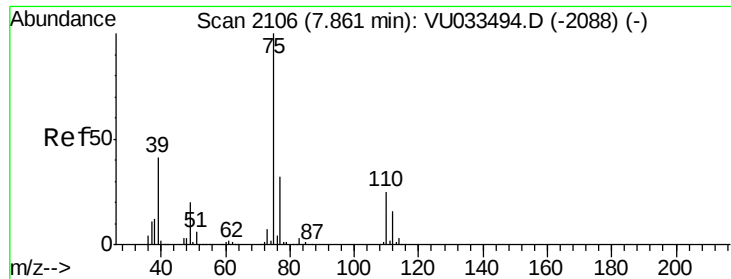
Tgt Ion: 43 Resp: 3945
 Ion Ratio Lower Upper
 43 100
 58 36.3 32.8 49.2
 100 8.9 12.9 19.3#



#42
 Toluene
 Concen: 0.358 ug/L
 RT: 7.62 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

Tgt Ion: 91 Resp: 3772
 Ion Ratio Lower Upper
 91 100
 92 51.4 40.2 74.6





#44

trans-1,3-Dichloropropene

Concen: 0.820 ug/L

RT: 7.83 min Scan# 2097

Delta R.T. -0.03 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

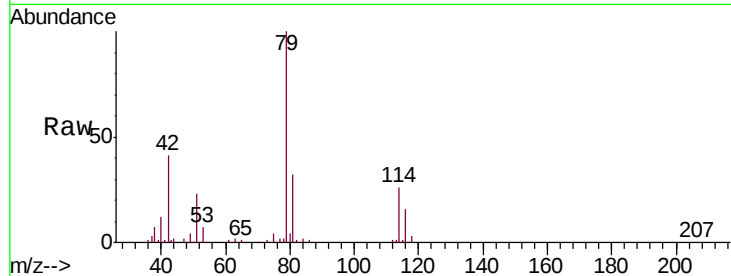
VIBLK40

Tgt Ion: 75 Resp: 3035

Ion Ratio Lower Upper

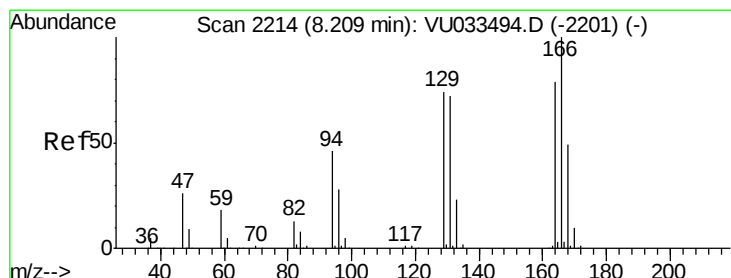
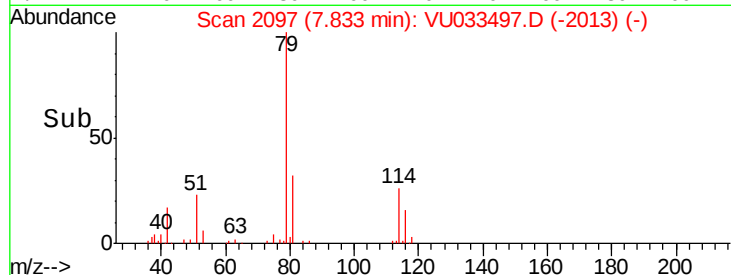
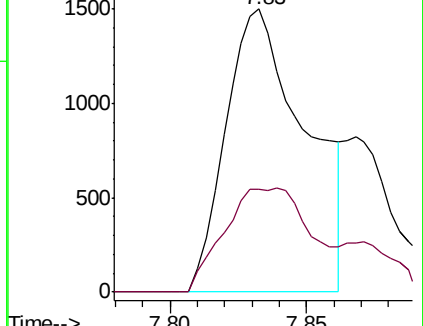
75 100

77 36.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033497.D (-2097) (-)

Ion 77.00 (76.70 to 77.70): VU033497.D (-2097) (-)



#46

Tetrachloroethene

Concen: 0.696 ug/L

RT: 8.22 min Scan# 2216

Delta R.T. 0.01 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Tgt Ion: 164 Resp: 1469

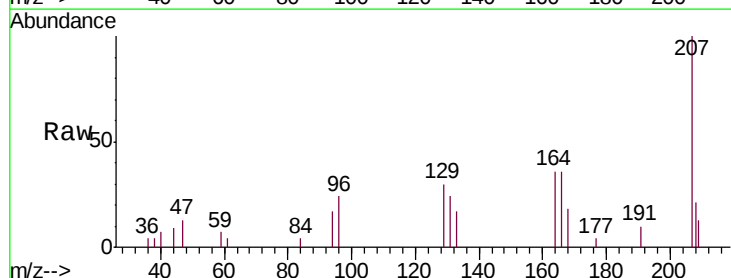
Ion Ratio Lower Upper

164 100

129 81.5 65.5 121.7

131 65.2 63.3 117.7

166 99.3 88.2 163.8

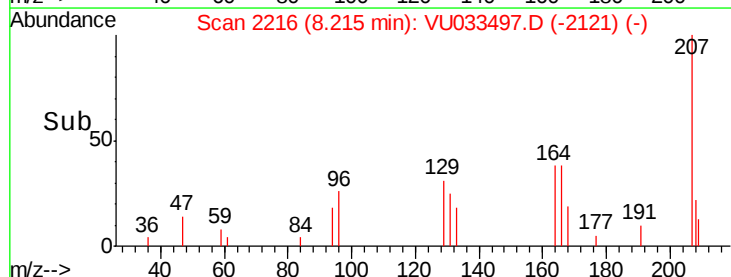
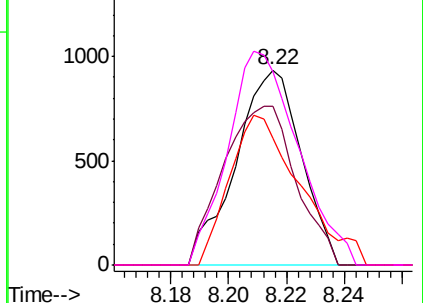


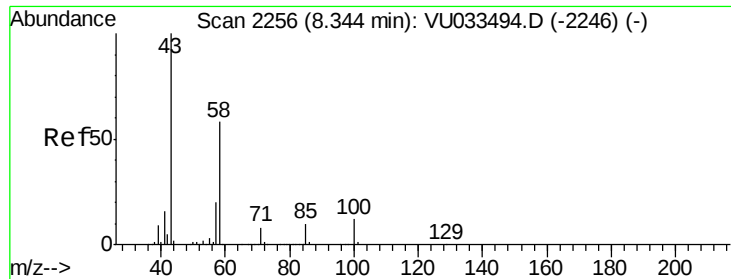
Abundance Ion 164.00 (163.70 to 164.70): VU033497.D (-2216) (-)

Ion 129.00 (128.70 to 129.70): VU033497.D (-2216) (-)

Ion 131.00 (130.70 to 131.70): VU033497.D (-2216) (-)

Ion 166.00 (165.70 to 166.70): VU033497.D (-2216) (-)

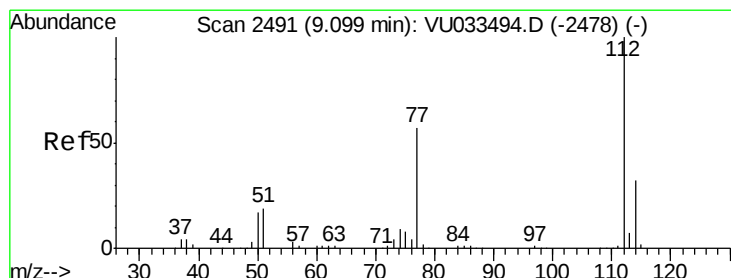
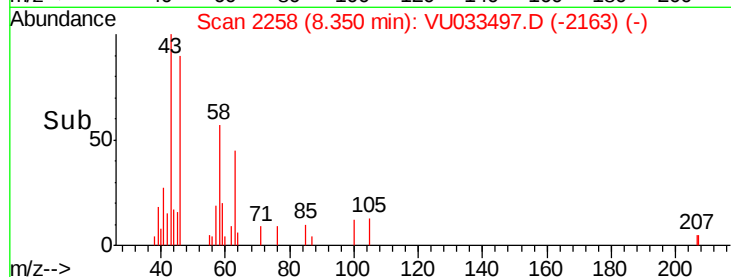
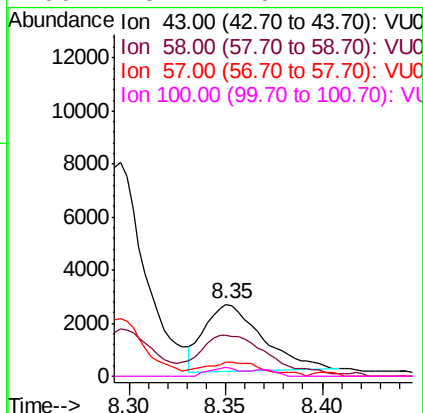
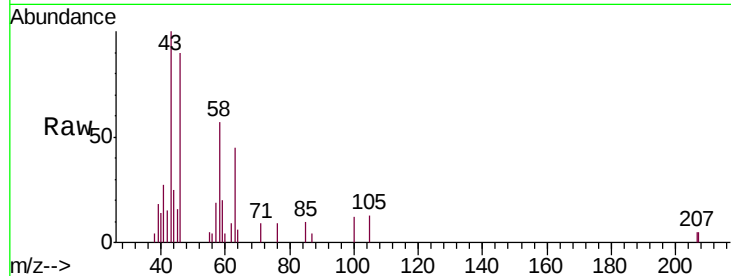




#48
2-Hexanone
Concen: 1.822 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033497.D
Acq: 30 Jul 2019 16:54

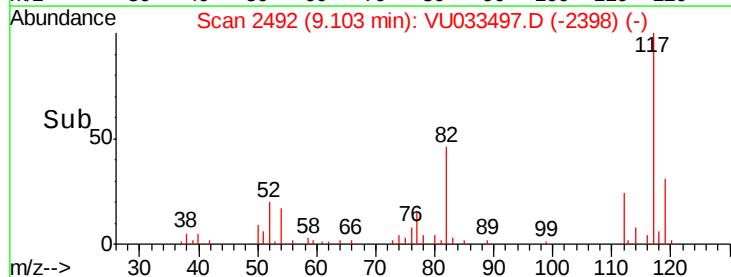
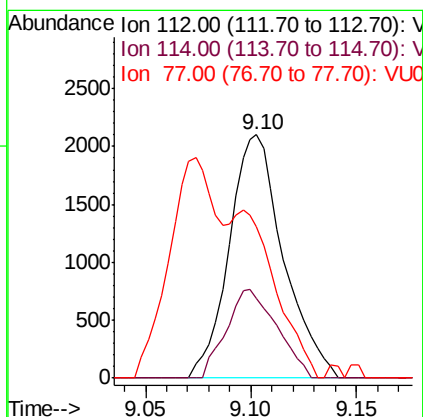
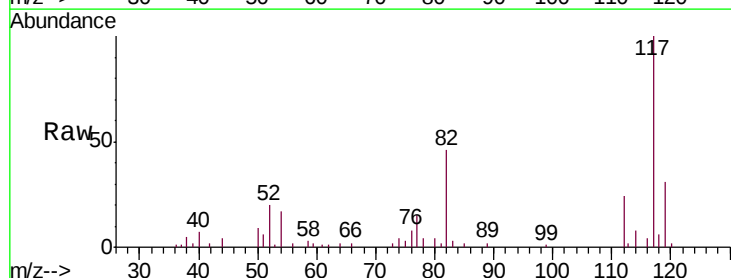
Instrument :
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VIBLK40

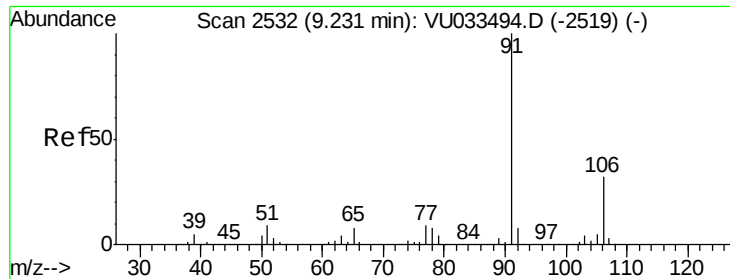
Tgt Ion: 43 Resp: 5337
Ion Ratio Lower Upper
43 100
58 71.5 45.8 68.6#
57 6.1 15.8 23.6#
100 6.7 9.4 14.2#



#51
Chlorobenzene
Concen: 0.543 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033497.D
Acq: 30 Jul 2019 16:54

Tgt Ion: 112 Resp: 3745
Ion Ratio Lower Upper
112 100
114 33.0 22.3 41.5
77 62.4 45.6 68.4





#52

Ethylbenzene

Concen: 0.457 ug/L

RT: 9.24 min Scan# 2534

Delta R.T. 0.01 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

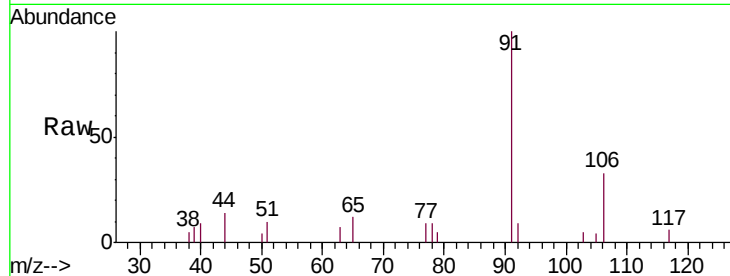
VIBLK40

Tgt Ion: 91 Resp: 5188

Ion Ratio Lower Upper

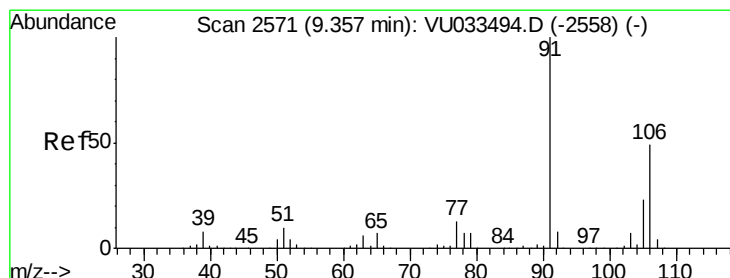
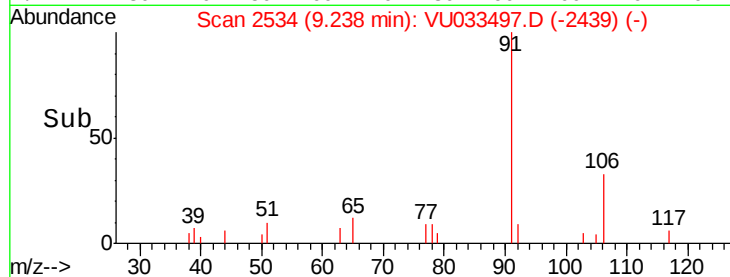
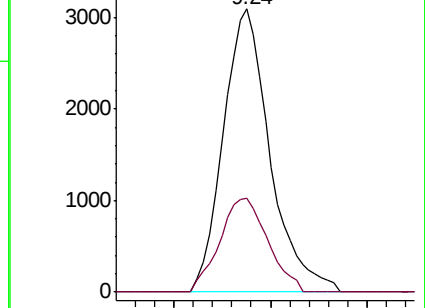
91 100

106 33.0 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033497.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033497.D (-2519) (-)



#53

m,p-Xylene

Concen: 0.536 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.01 min

Lab File: VU033497.D

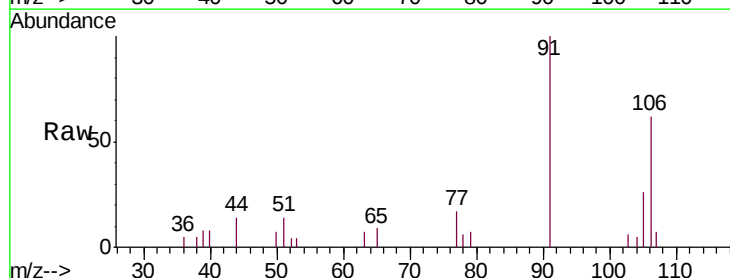
Acq: 30 Jul 2019 16:54

Tgt Ion: 106 Resp: 2335

Ion Ratio Lower Upper

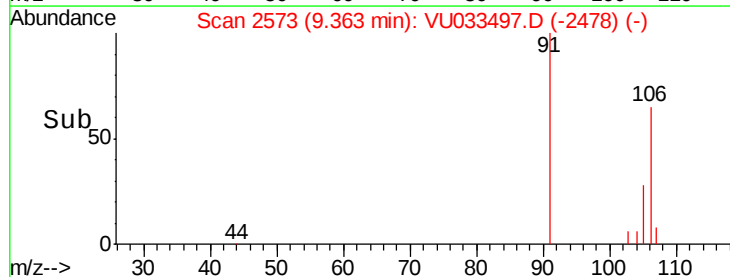
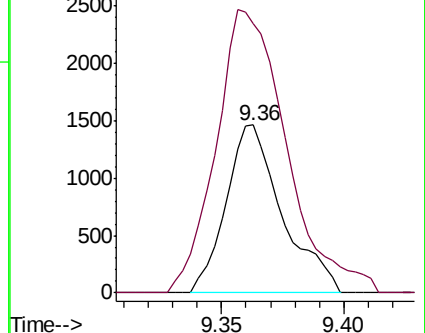
106 100

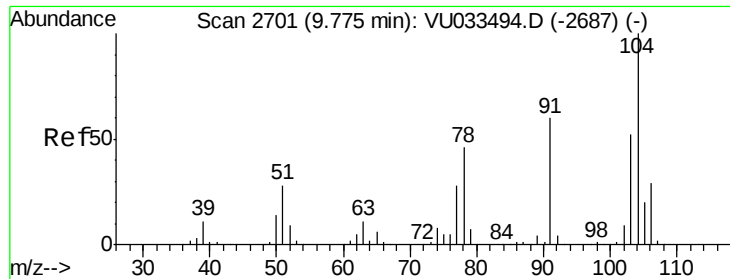
91 160.8 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU033497.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033497.D (-2558) (-)





#55

Styrene

Concen: 0.536 ug/L

RT: 9.78 min Scan# 2704

Delta R.T. 0.01 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

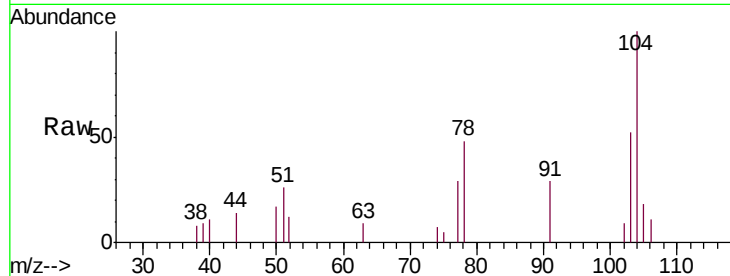
VIBLK40

Tgt Ion:104 Resp: 3848

Ion Ratio Lower Upper

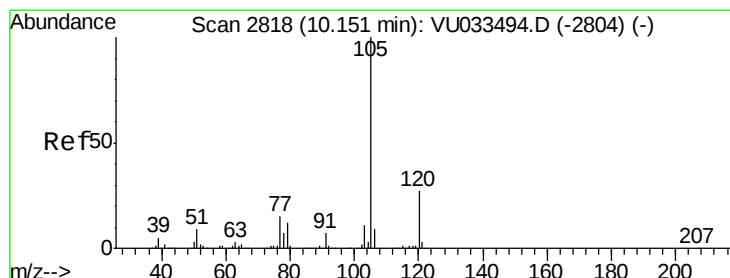
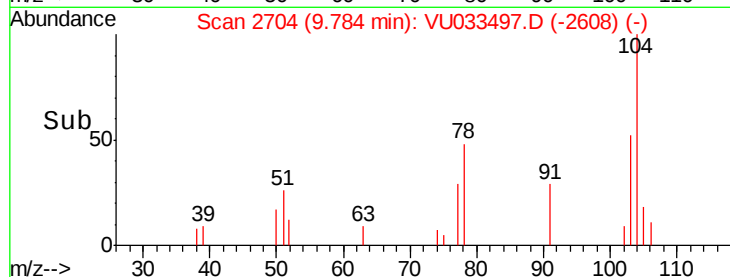
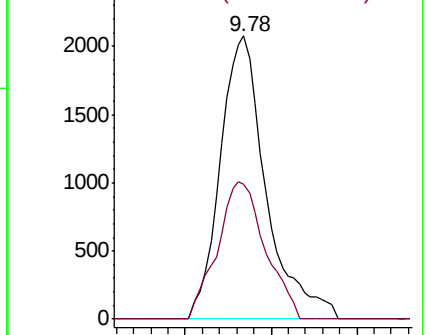
104 100

78 47.6 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 0.471 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

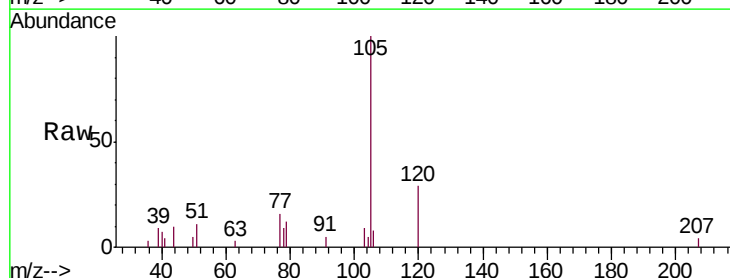
Tgt Ion:105 Resp: 5203

Ion Ratio Lower Upper

105 100

120 25.0 21.4 32.0

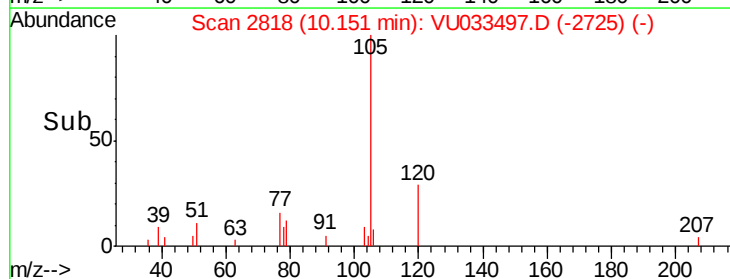
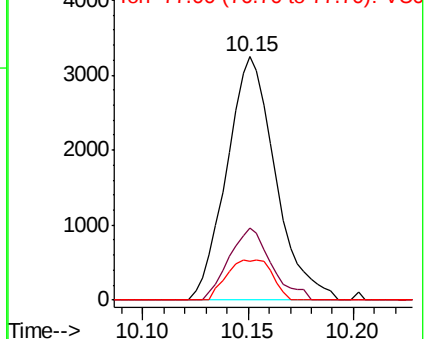
77 15.2 12.5 18.7

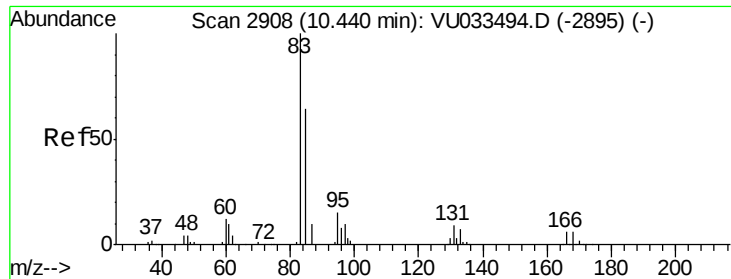


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.666 ug/L

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

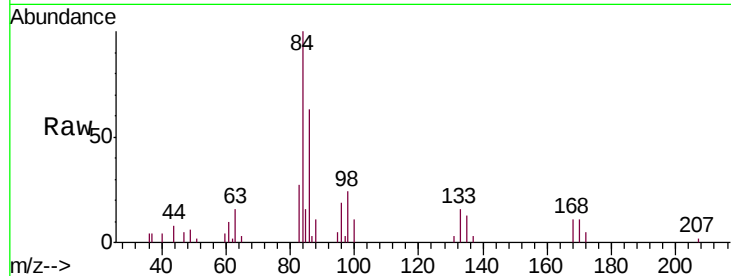
Tgt Ion: 83 Resp: 2994

Ion Ratio Lower Upper

83 100

85 59.3 45.4 84.4

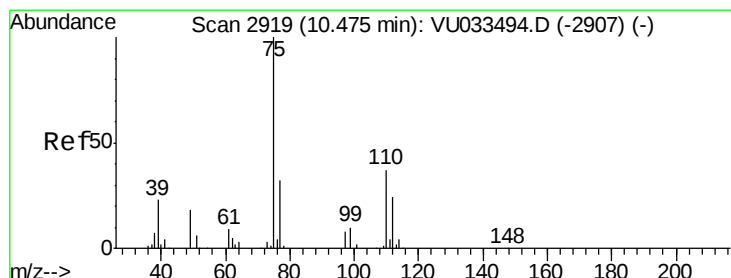
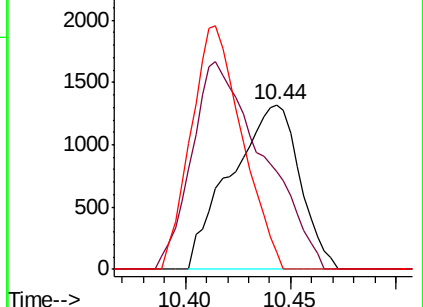
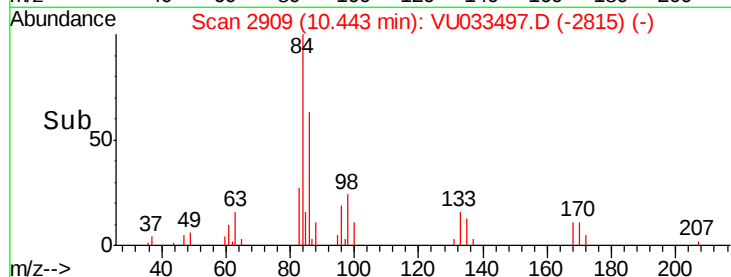
131 10.4 7.9 11.9



Abundance Ion 83.00 (82.70 to 83.70): VU033497.D (-2895) (-)

Ion 85.00 (84.70 to 85.70): VU033497.D (-2895) (-)

Ion 131.00 (130.70 to 131.70): VU033497.D (-2895) (-)



#59

1,2,3-Trichloropropane

Concen: 0.618 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033497.D

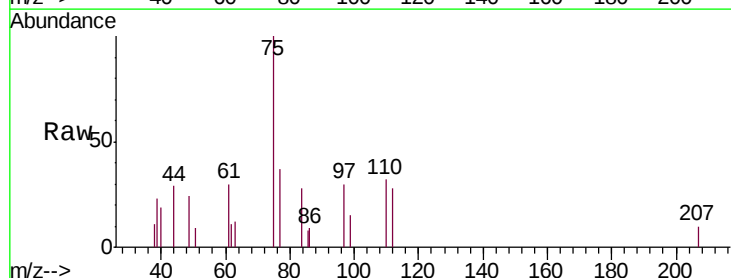
Acq: 30 Jul 2019 16:54

Tgt Ion: 75 Resp: 2140

Ion Ratio Lower Upper

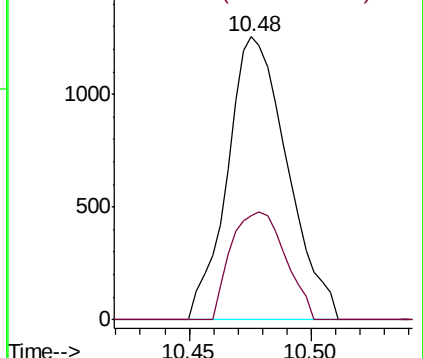
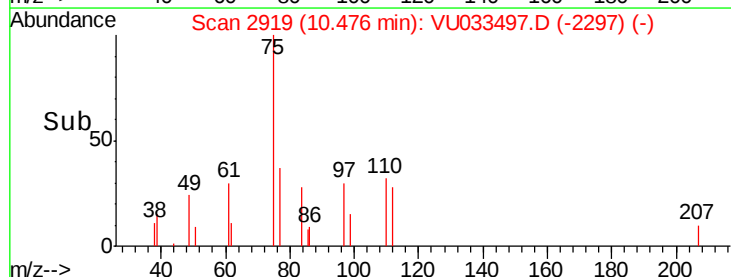
75 100

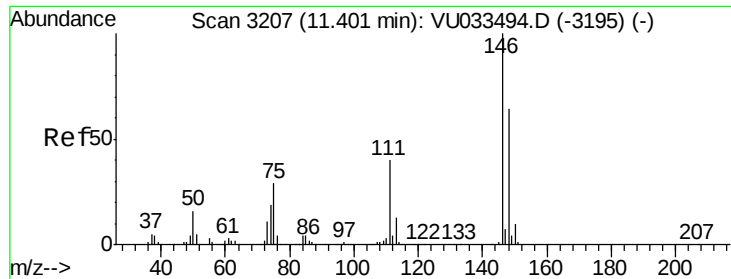
77 34.7 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU033497.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033497.D (-2907) (-)





#62

1,3-Dichlorobenzene

Concen: 1.411 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

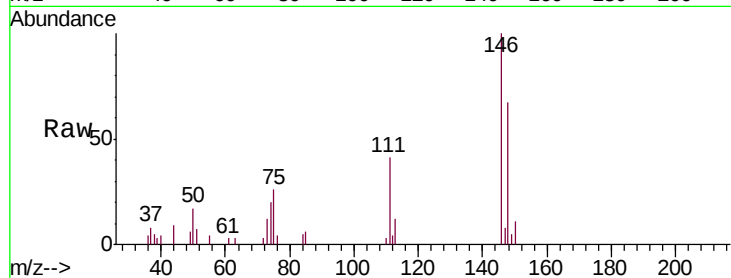
Tgt Ion:146 Resp: 7253

Ion Ratio Lower Upper

146 100

111 41.3 28.1 52.1

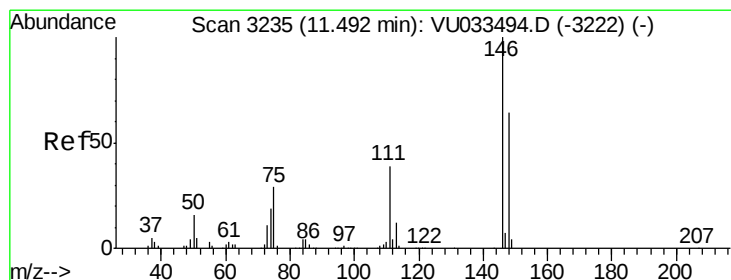
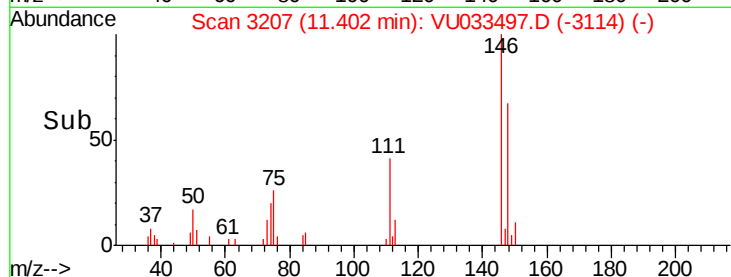
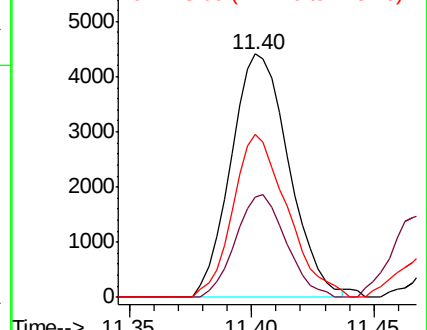
148 66.8 45.0 83.6



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



#63

1,4-Dichlorobenzene

Concen: 1.598 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

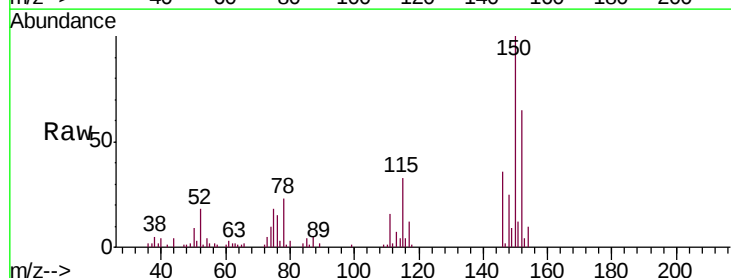
Tgt Ion:146 Resp: 8532

Ion Ratio Lower Upper

146 100

111 44.6 27.2 50.4

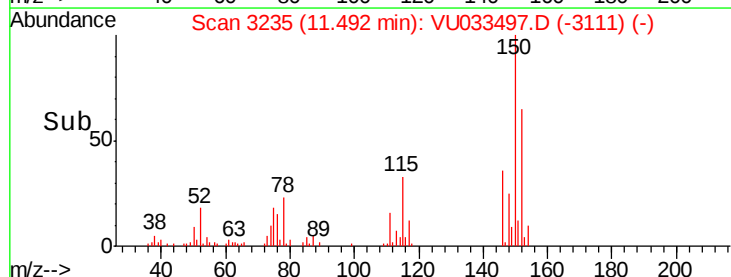
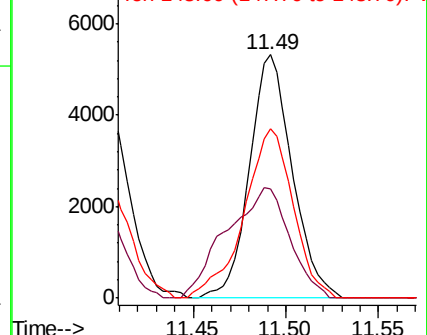
148 69.6 44.5 82.7

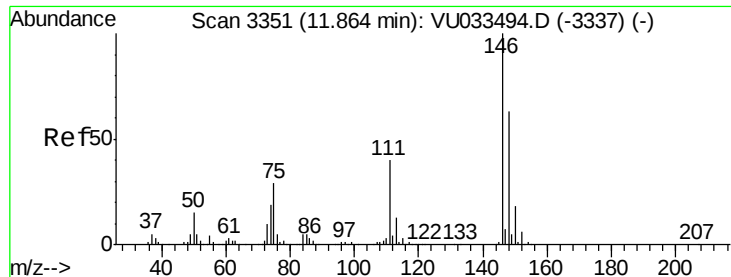


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.300 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

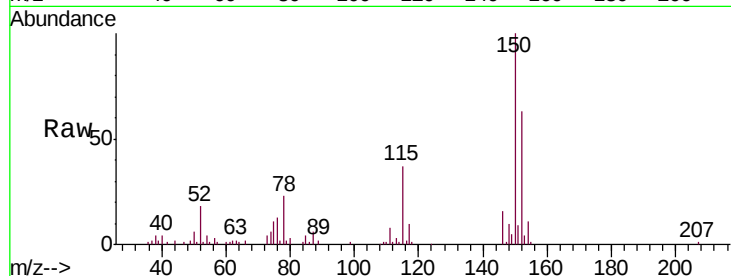
Tgt Ion:146 Resp: 6758

Ion Ratio Lower Upper

146 100

111 48.9 31.7 47.5#

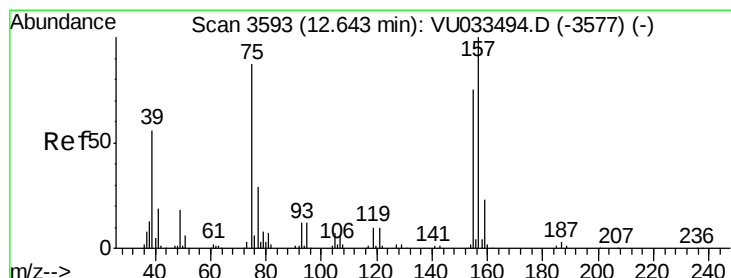
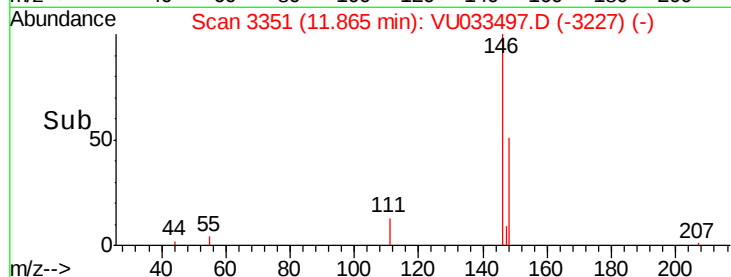
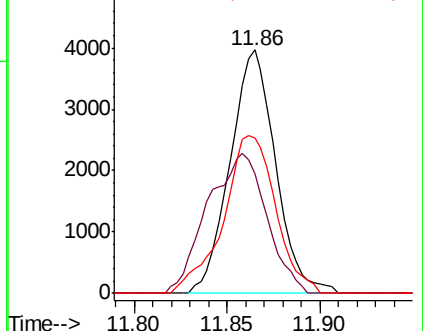
148 63.7 50.3 75.5



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: 1.336 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

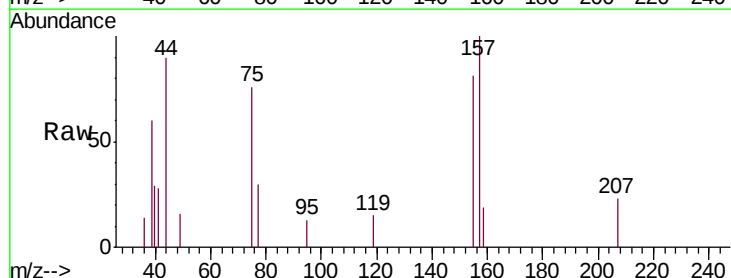
Tgt Ion: 75 Resp: 1283

Ion Ratio Lower Upper

75 100

155 107.0 69.4 104.0#

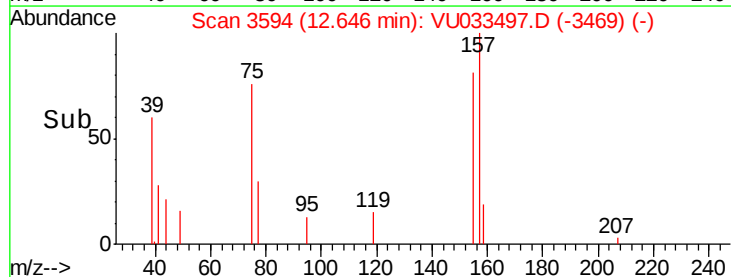
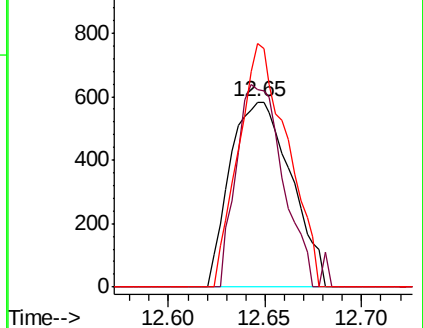
157 131.6 91.8 137.8

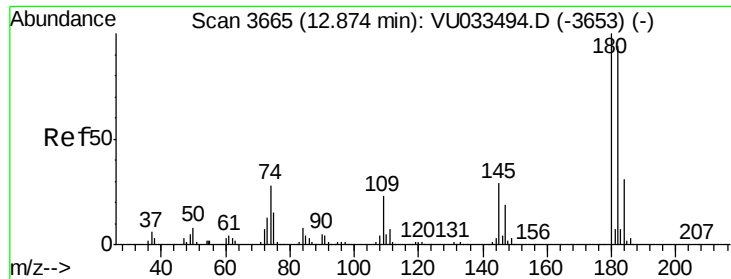


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

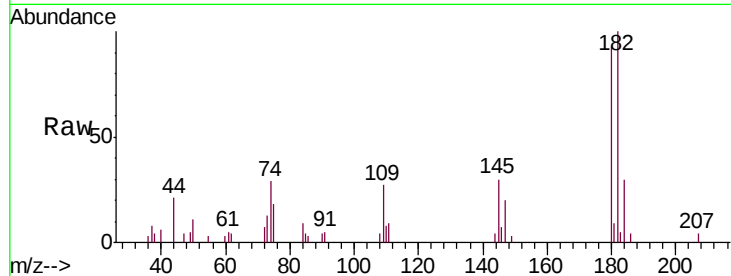




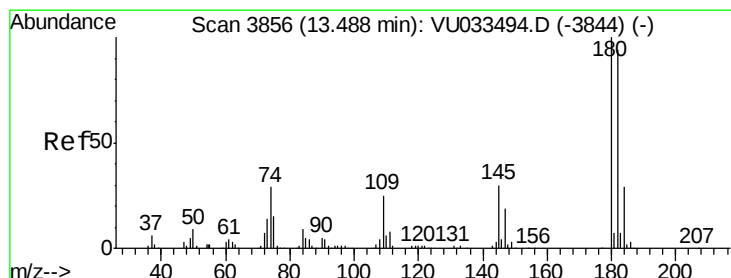
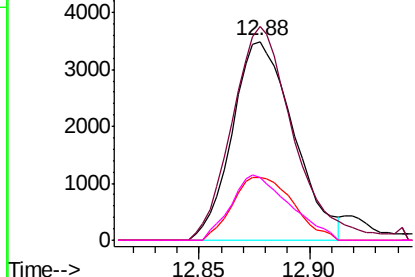
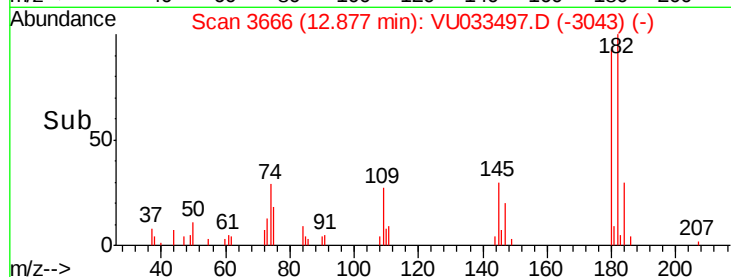
#67
 1,3,5-Trichlorobenzene
 Concen: 1.626 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK40

Tgt Ion:180 Resp: 6743
 Ion Ratio Lower Upper
 180 100
 182 107.3 75.6 113.4
 184 31.4 24.2 36.2
 145 31.3 22.7 34.1

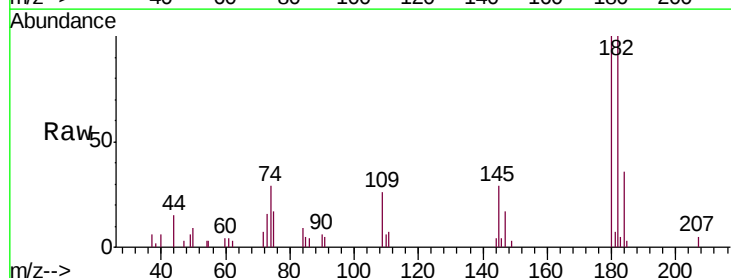


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

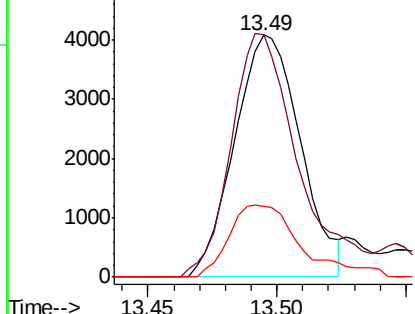
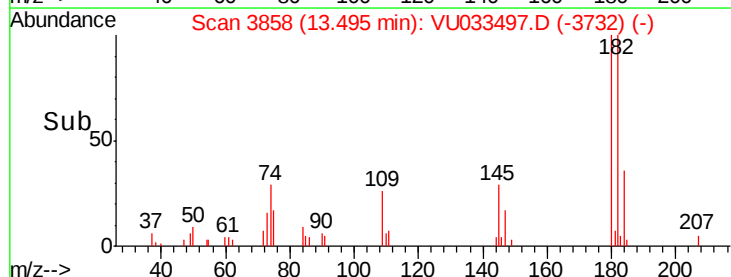


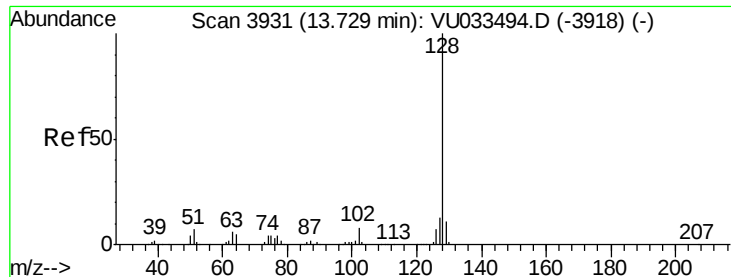
#68
 1,2,4-trichlorobenzene
 Concen: 2.051 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033497.D
 Acq: 30 Jul 2019 16:54

Tgt Ion:180 Resp: 7267
 Ion Ratio Lower Upper
 180 100
 182 102.6 75.8 113.8
 145 28.7 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 2.996 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

Instrument :

MSVOA_U

ClientSampleId :

VIBLK40

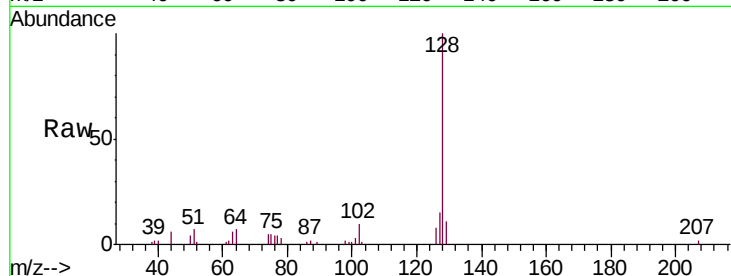
Tgt Ion:128 Resp: 30458

Ion Ratio Lower Upper

128 100

127 12.0 10.8 16.2

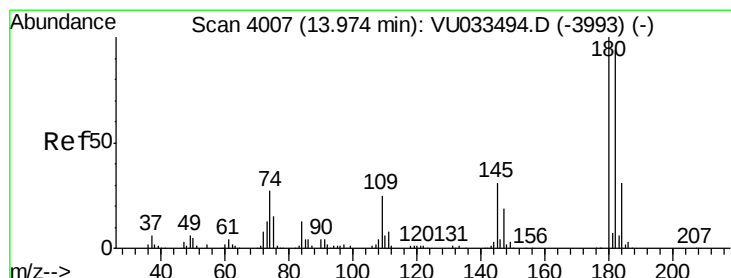
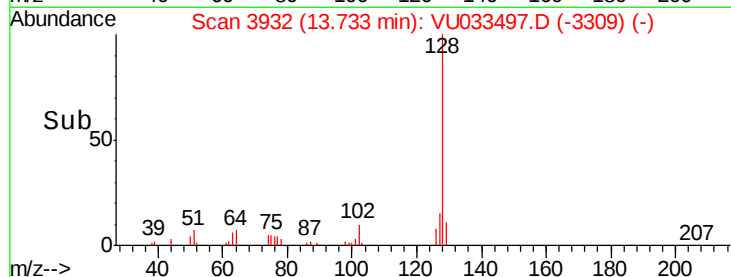
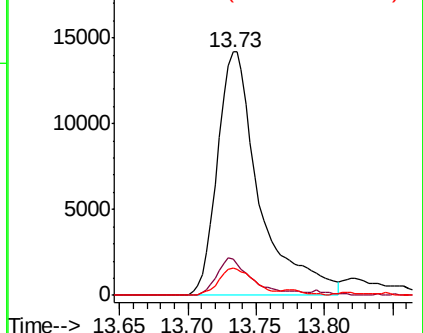
129 9.0 8.7 13.1



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



#70

1,2,3-Trichlorobenzene

Concen: 2.578 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033497.D

Acq: 30 Jul 2019 16:54

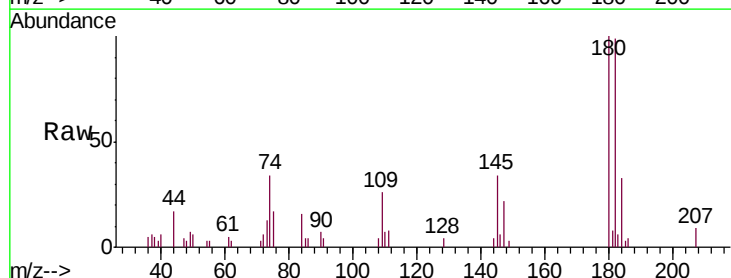
Tgt Ion:180 Resp: 9607

Ion Ratio Lower Upper

180 100

182 85.4 75.5 113.3

145 27.0 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

