

Data File : VU034933.D
Acq On : 04 Oct 2019 14:23
Operator : JC/SP
Sample : K5196-01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0K00

Quant Time: Oct 05 00:33:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 05 00:29:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	203195	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	194540	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	90223	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	73517	5.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.20%
7) Chloroethane-d5	1.68	69	62734	5.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.00%
11) 1,1-Dichloroethene-d2	2.26	63	101712	4.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.40%
20) 2-Butanone-d5	4.17	46	182702	44.61	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.22%
24) Chloroform-d	4.62	84	125292	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	5.29	65	70215	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.32	84	258573	5.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.80%
36) 1,2-Dichloropropane-d6	6.31	67	85815	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.20%
41) Toluene-d8	7.54	98	238199	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
43) trans-1,3-Dichloropropene-	7.83	79	30134	5.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.20%
46) 2-Hexanone-d5	8.30	63	146390	50.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.66%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	66639	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.84	152	84515	5.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.00%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	2903	0.296 ug/L	92
12) 1,1-Dichloroethene	2.27	96	2703	0.396 ug/L #	1
13) Acetone	2.31	43	3245	1.083 ug/L	97
14) Carbon disulfide	2.47	76	3867	0.341 ug/L #	91
18) trans-1,2-Dichloroethene	2.96	96	1237	0.176 ug/L #	64
19) 1,1-Dichloroethane	3.42	63	3010	0.139 ug/L #	90
22) cis-1,2-Dichloroethene	4.20	96	26900	2.504 ug/L	87
25) Chloroform	4.65	83	5894	0.226 ug/L	97
31) Carbon tetrachloride	5.11	117	3700	0.267 ug/L	97
34) Trichloroethene	6.16	95	99157	9.592 ug/L	94
35) Methylcyclohexane	6.39	83	1110	0.086 ug/L #	49
47) Tetrachloroethene	8.21	164	6528	0.954 ug/L	95
48) 2-Hexanone	8.36	43	12314	1.604 ug/L #	92
51) Chlorobenzene	9.11	112	2496	0.086 ug/L	95
53) m,p-Xylene	9.37	106	2651	0.150 ug/L	97
55) Styrene	9.78	104	3079	0.097 ug/L	96
56) Isopropylbenzene	10.15	105	4488	0.084 ug/L	97

Data File : VU034933.D
Acq On : 04 Oct 2019 14:23
Operator : JC/SP
Sample : K5196-01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0K00

Quant Time: Oct 05 00:33:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 05 00:29:19 2019
Response via : Initial Calibration

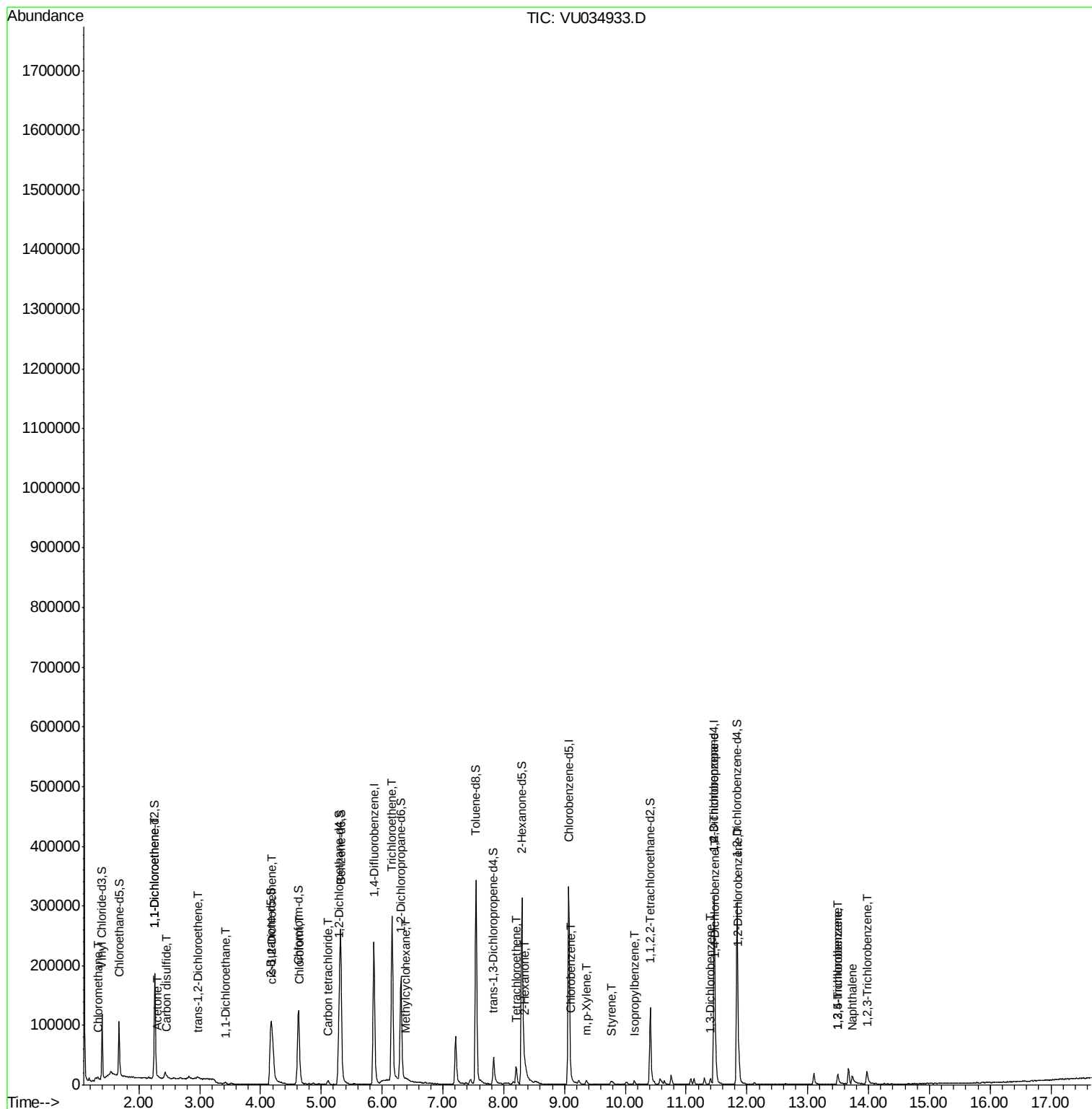
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.46	75	12423	1.302	ug/L	90
62) 1,3-Dichlorobenzene	11.40	146	5326	0.229	ug/L	92
63) 1,4-Dichlorobenzene	11.49	146	6206	0.259	ug/L	88
65) 1,2-Dichlorobenzene	11.86	146	5611	0.235	ug/L	93
67) 1,3,5-Trichlorobenzene	13.49	180	8117	0.475	ug/L #	96
68) 1,2,4-trichlorobenzene	13.49	180	8117	0.665	ug/L	96
69) Naphthalene	13.74	128	20623	1.007	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.97	180	10270	0.838	ug/L	89

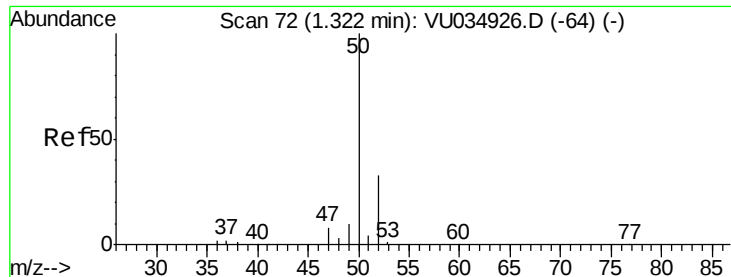
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU034933.D
Acq On : 04 Oct 2019 14:23
Operator : JC/SP
Sample : K5196-01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0K00

Quant Time: Oct 05 00:33:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR093019WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 05 00:29:19 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.296 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

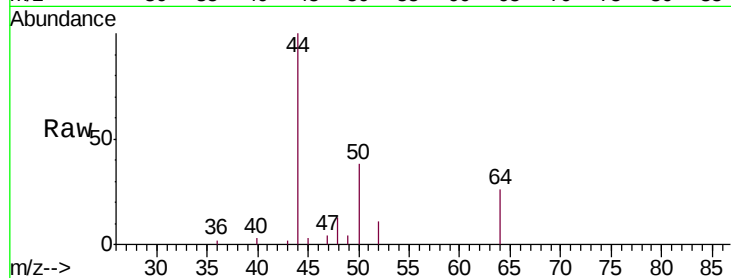
C0K00

Tgt Ion: 50 Resp: 2903

Ion Ratio Lower Upper

50 100

52 27.8 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VU034926.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034926.D (-64) (-)

1.33

2500

2000

1500

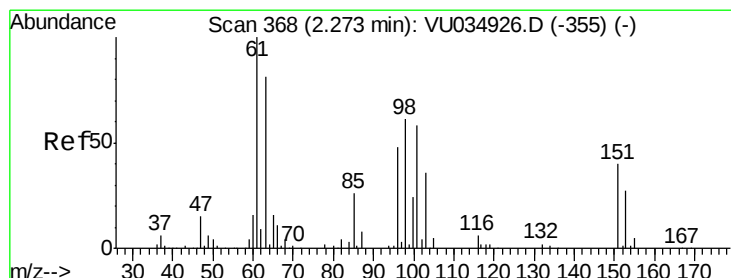
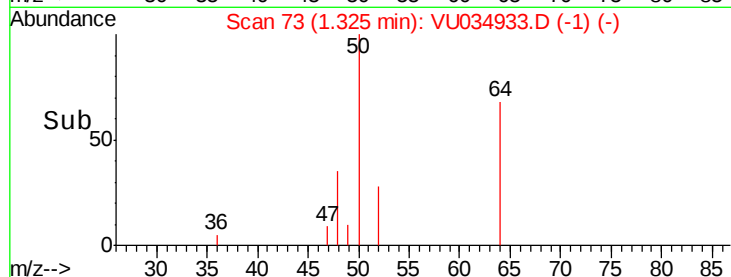
1000

500

0

1.30 1.35

Time-->



#12

1,1-Dichloroethene

Concen: 0.396 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

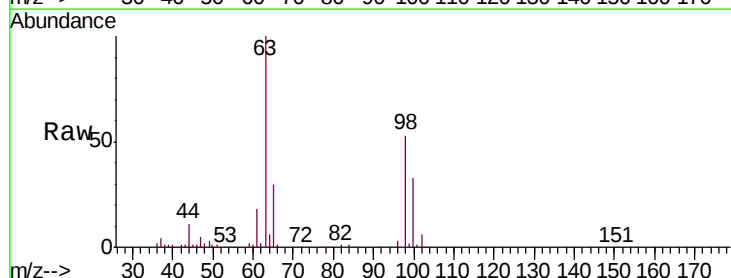
Tgt Ion: 96 Resp: 2703

Ion Ratio Lower Upper

96 100

61 518.4 160.5 298.1#

63 2952.5 162.3 301.5#



Abundance Ion 96.00 (95.70 to 96.70): VU034926.D (-355) (-)

Ion 61.05 (60.75 to 61.75): VU034926.D (-355) (-)

Ion 63.00 (62.70 to 63.70): VU034926.D (-355) (-)

80000

60000

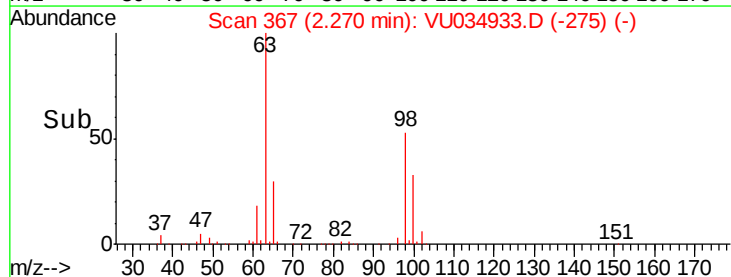
40000

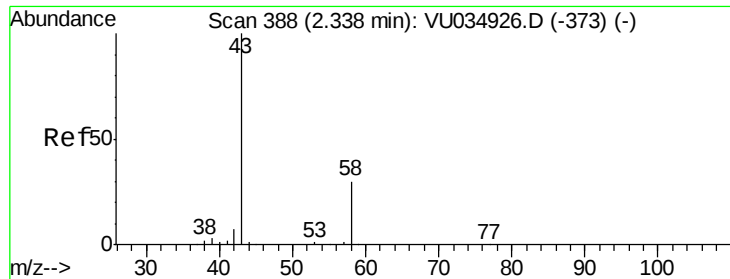
20000

0

2.20 2.25 2.30

Time-->





#13

Acetone

Concen: 1.083 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.03 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

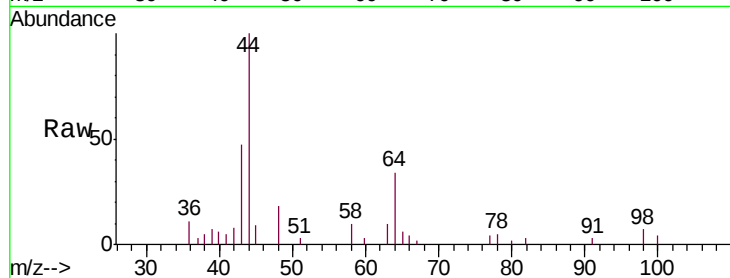
C0K00

Tgt Ion: 43 Resp: 3245

Ion Ratio Lower Upper

43 100

58 25.4 0.0 54.0



Abundance Ion 43.05 (42.75 to 43.75): VU034926.D (-373) (-)

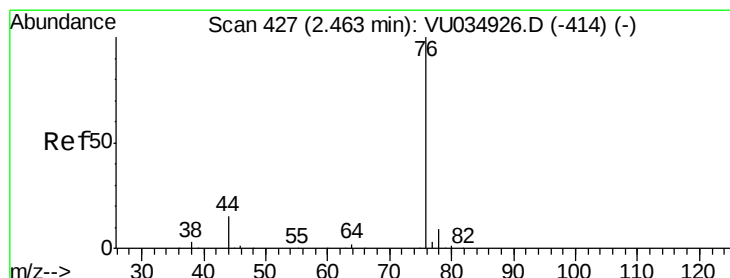
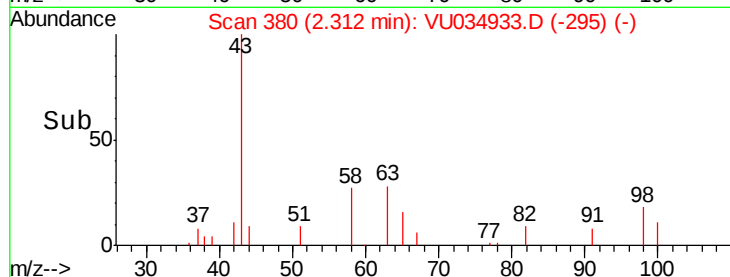
Ion 58.05 (57.75 to 58.75): VU034926.D (-373) (-)

2.31

2.35

2.40

Time-->



#14

Carbon disulfide

Concen: 0.341 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034933.D

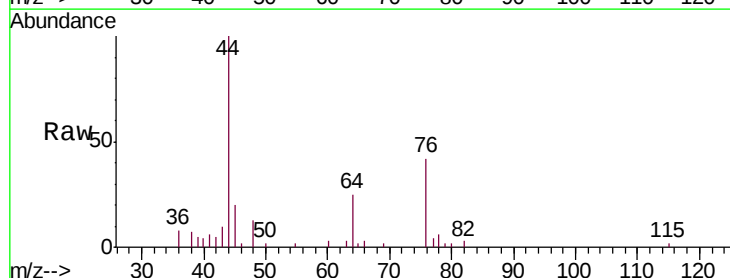
Acq: 04 Oct 2019 14:23

Tgt Ion: 76 Resp: 3867

Ion Ratio Lower Upper

76 100

78 13.1 7.9 11.9#



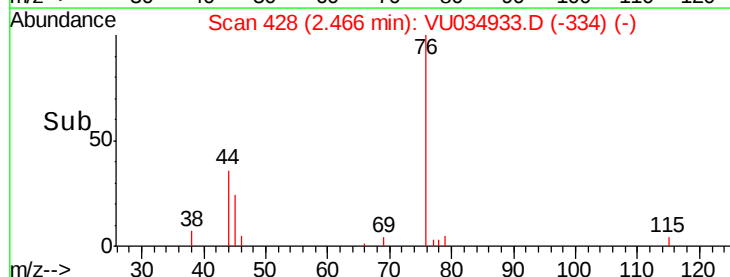
Abundance Ion 76.05 (75.75 to 76.75): VU034926.D (-414) (-)

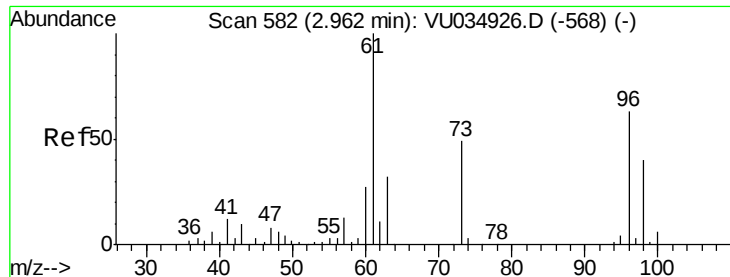
Ion 78.00 (77.70 to 78.70): VU034926.D (-414) (-)

2.47

2.50

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.176 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

C0K00

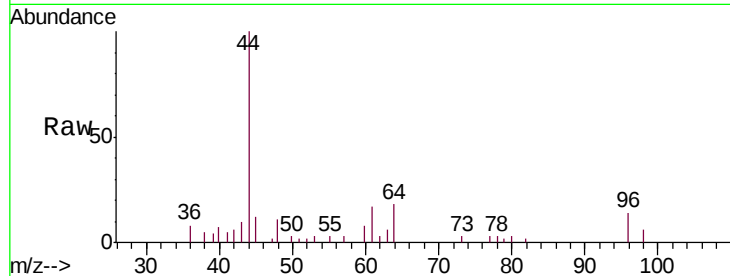
Tgt Ion: 96 Resp: 1237

Ion Ratio Lower Upper

96 100

61 117.5 121.0 224.8#

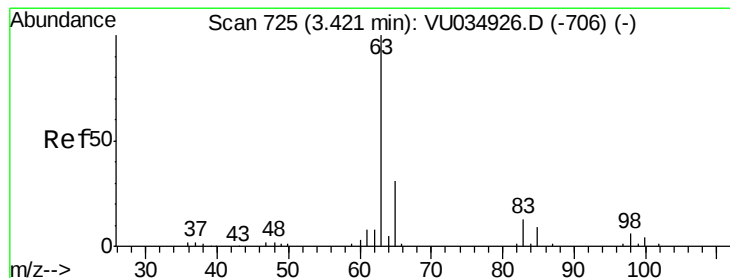
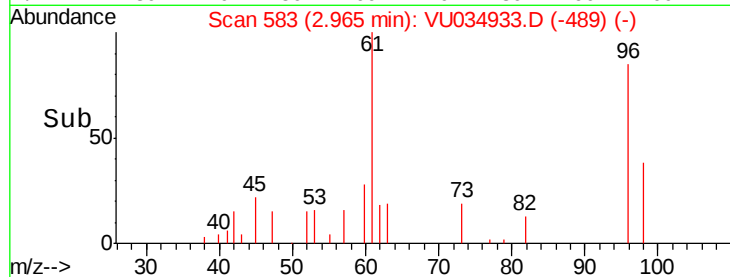
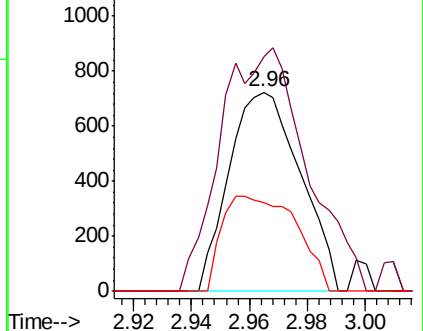
98 44.5 44.7 83.1#



Abundance Ion 96.00 (95.70 to 96.70): VU034926.D (-568) (-)

Ion 61.05 (60.75 to 61.75): VU034926.D (-568) (-)

Ion 97.95 (97.65 to 98.65): VU034926.D (-568) (-)



#19

1,1-Dichloroethane

Concen: 0.139 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

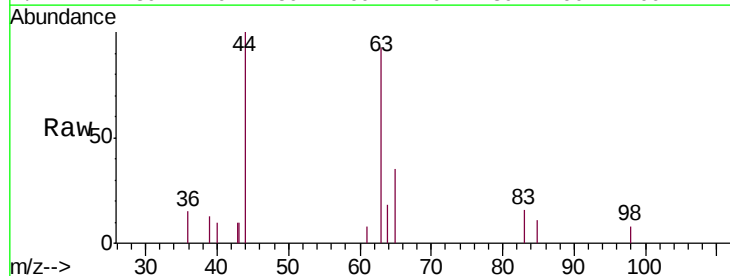
Tgt Ion: 63 Resp: 3010

Ion Ratio Lower Upper

63 100

65 37.3 22.7 42.1

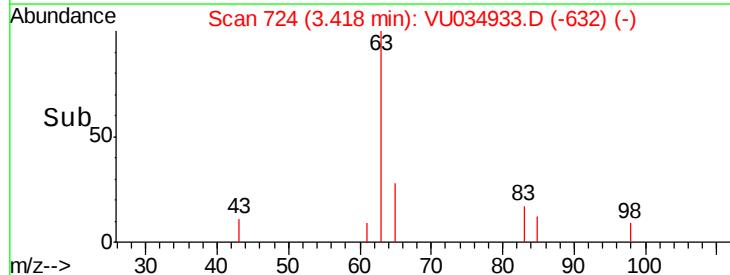
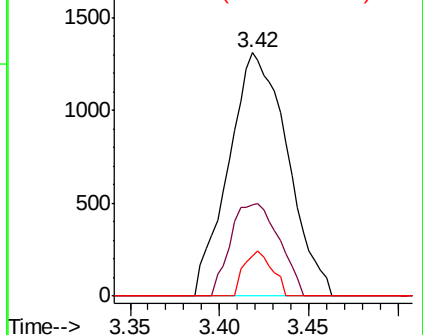
83 16.7 8.4 15.6#

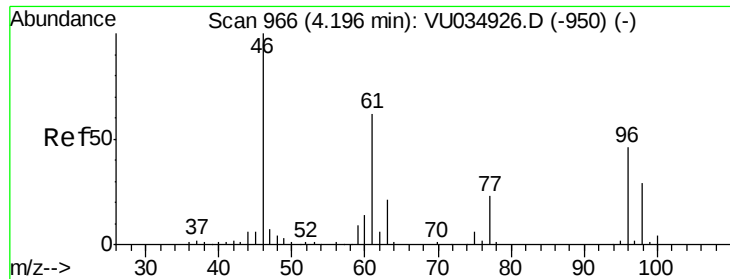


Abundance Ion 63.10 (62.80 to 63.80): VU034926.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU034926.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU034926.D (-706) (-)



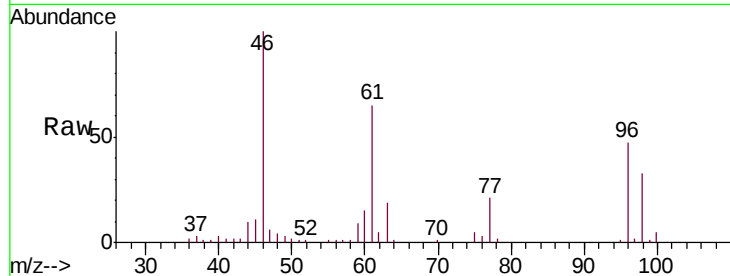


#22

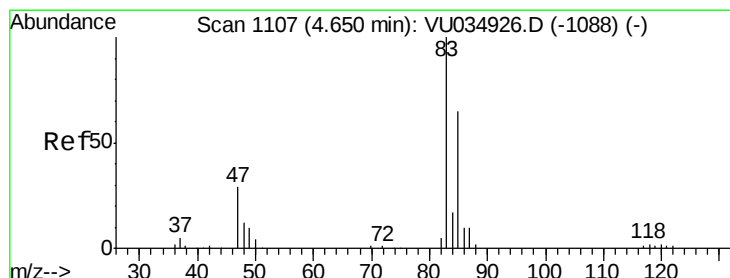
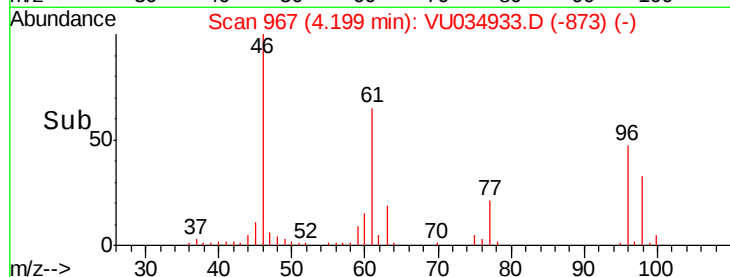
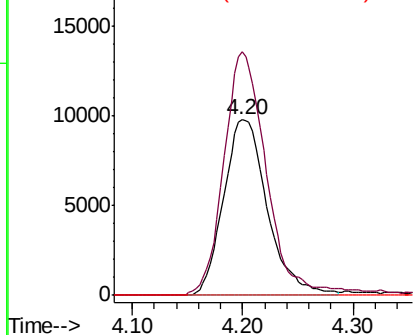
cis-1,2-Dichloroethene
 Concen: 2.504 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 C0K00

Tgt Ion: 96 Resp: 26900
 Ion Ratio Lower Upper
 96 100
 61 138.7 108.6 201.8
 68 0.0 0.0 0.0



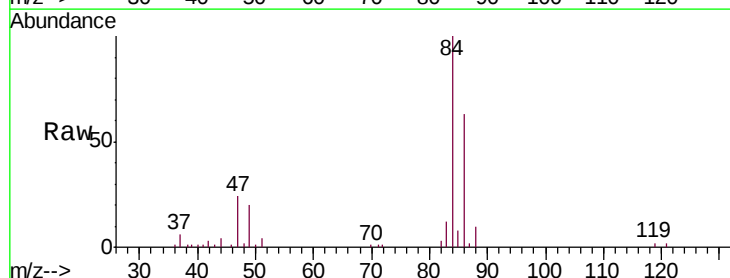
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



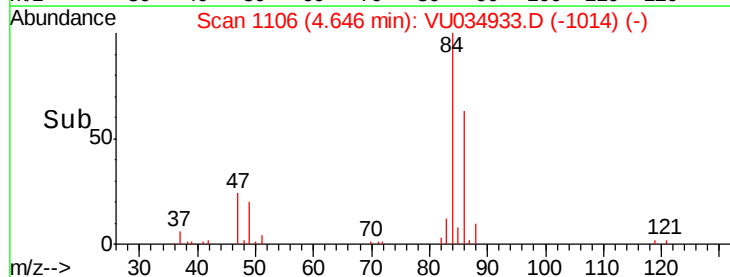
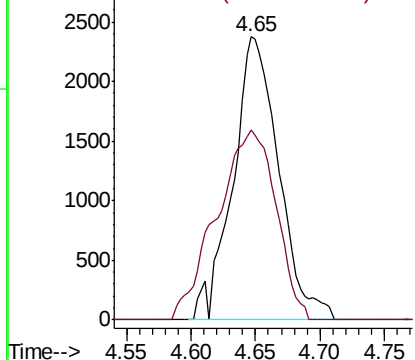
#25

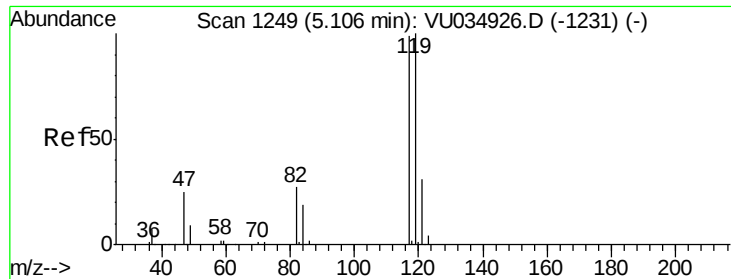
Chloroform
 Concen: 0.226 ug/L
 RT: 4.65 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Tgt Ion: 83 Resp: 5894
 Ion Ratio Lower Upper
 83 100
 85 66.9 45.2 84.0



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0



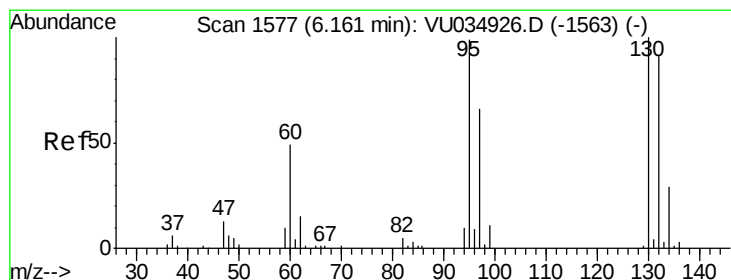
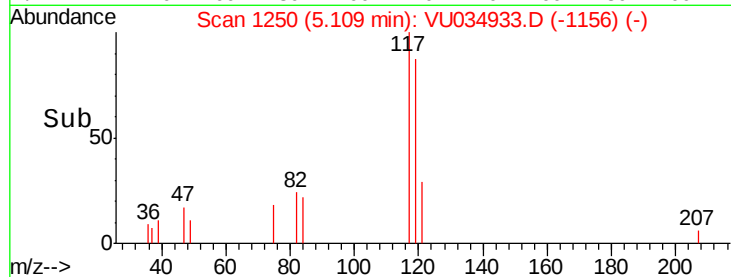
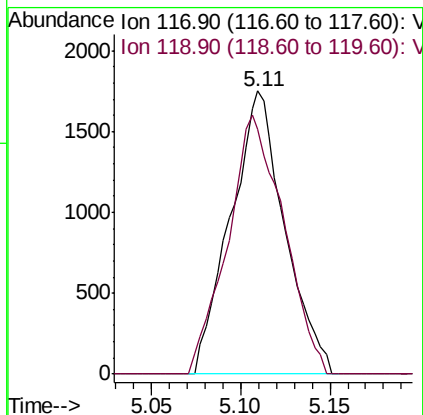
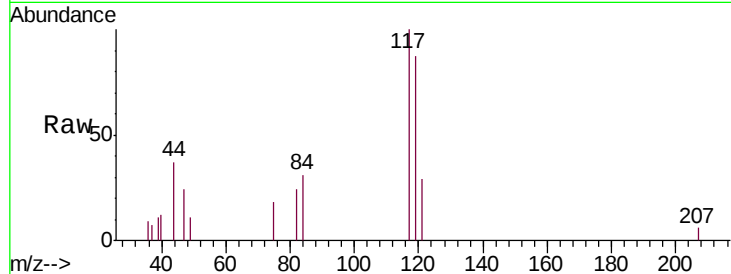


#31

Carbon tetrachloride
 Concen: 0.267 ug/L
 RT: 5.11 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 C0K00

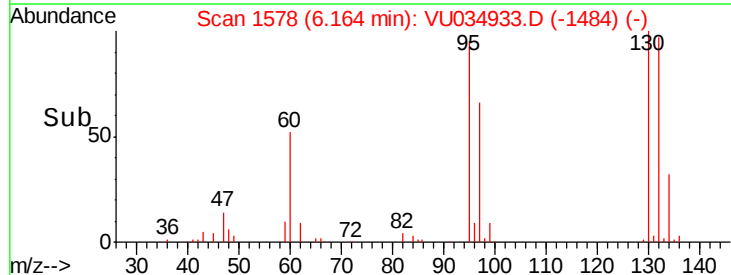
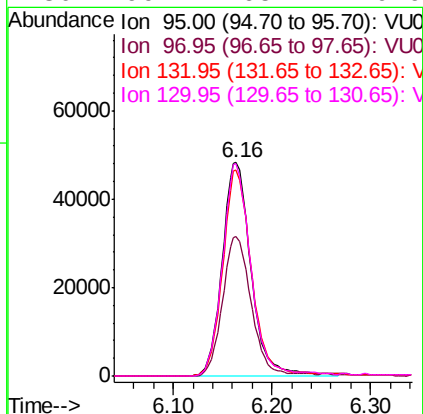
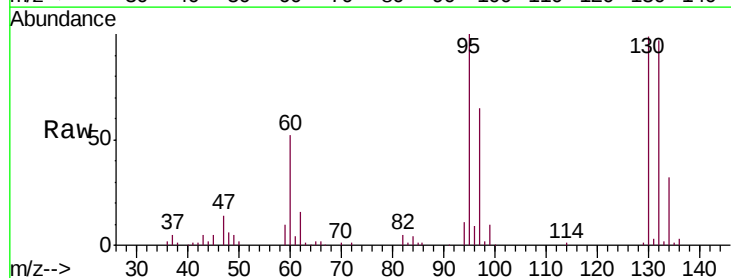
Tgt Ion: 117 Resp: 3700
 Ion Ratio Lower Upper
 117 100
 119 94.6 77.8 116.8

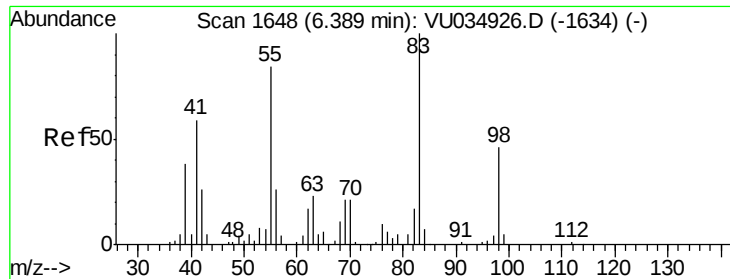


#34

Trichloroethene
 Concen: 9.592 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Tgt Ion: 95 Resp: 99157
 Ion Ratio Lower Upper
 95 100
 97 65.2 45.1 83.7
 132 96.6 61.2 113.8
 130 99.4 65.1 120.9

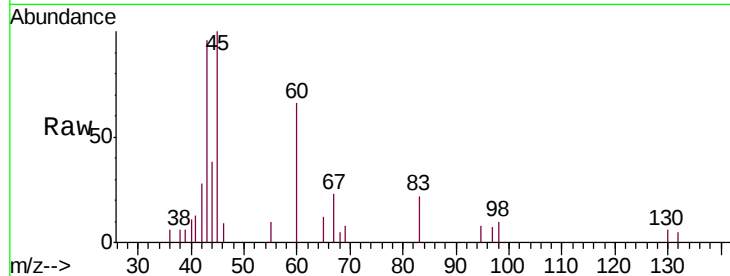




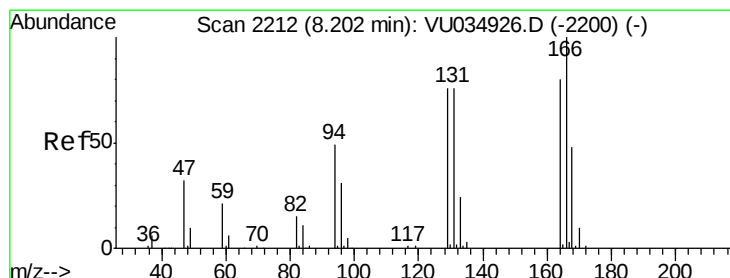
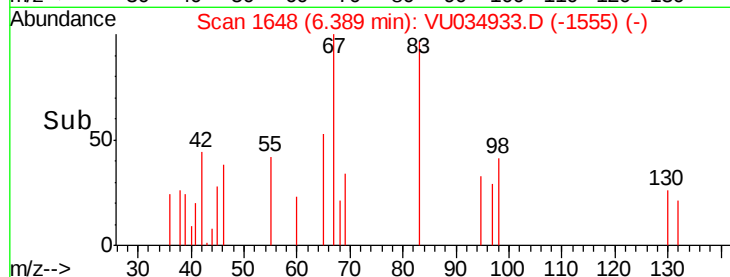
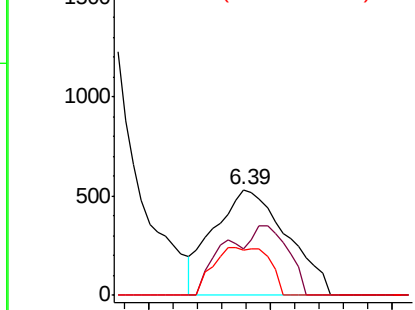
#35
Methylcyclohexane
Concen: 0.086 ug/L
RT: 6.39 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VU034933.D
Acq: 04 Oct 2019 14:23

Instrument :
MSVOA_U
ClientSampleId :
C0K00

Tgt Ion: 83 Resp: 1110
Ion Ratio Lower Upper
83 100
55 23.2 68.9 103.3#
98 34.1 36.6 54.8#

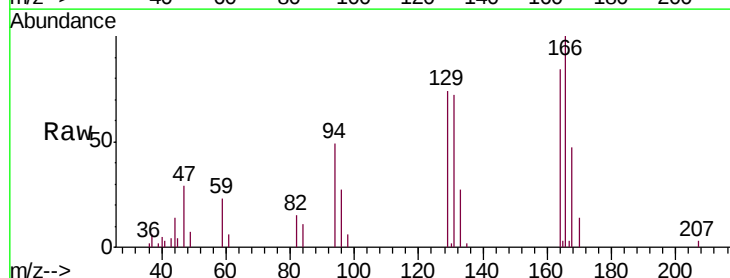


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

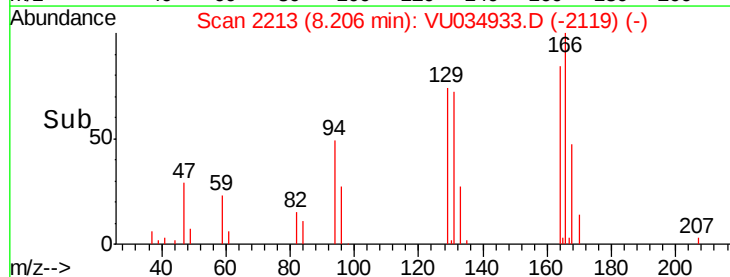
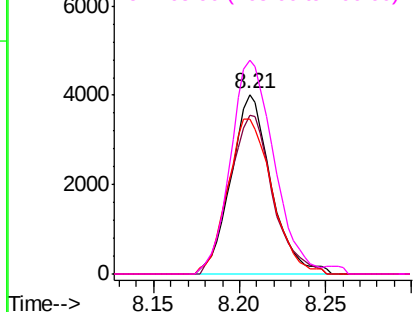


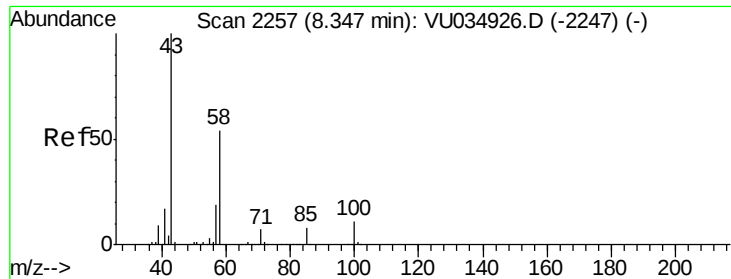
#47
Tetrachloroethene
Concen: 0.954 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. 0.00 min
Lab File: VU034933.D
Acq: 04 Oct 2019 14:23

Tgt Ion: 164 Resp: 6528
Ion Ratio Lower Upper
164 100
129 88.3 66.3 123.1
131 86.2 62.2 115.4
166 119.1 88.4 164.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

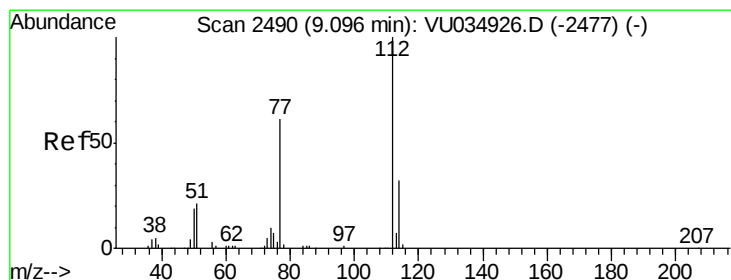
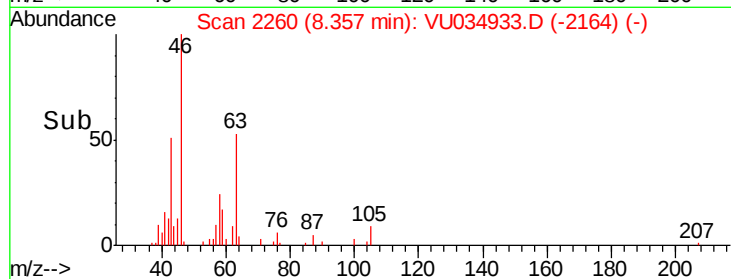
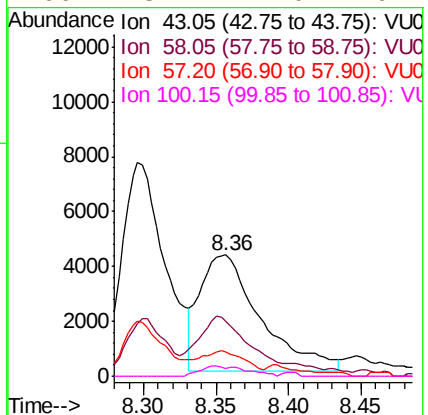
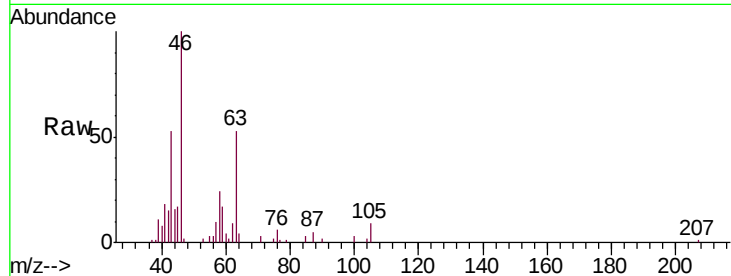




#48
2-Hexanone
Concen: 1.604 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU034933.D
Acq: 04 Oct 2019 14:23

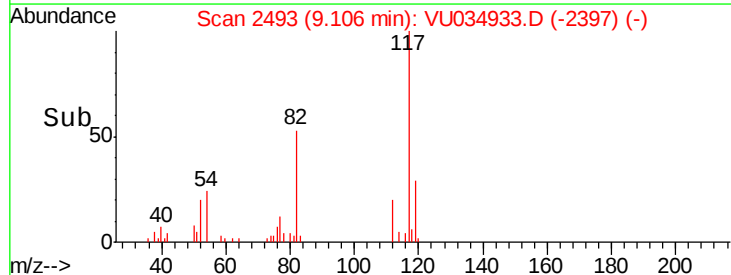
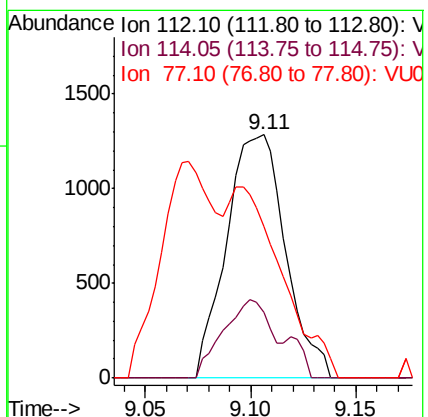
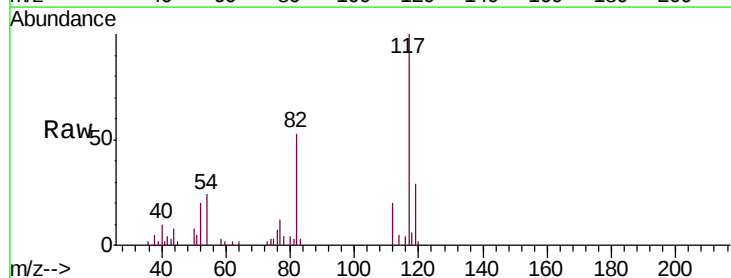
Instrument :
MSVOA_U
ClientSampleId :
C0K00

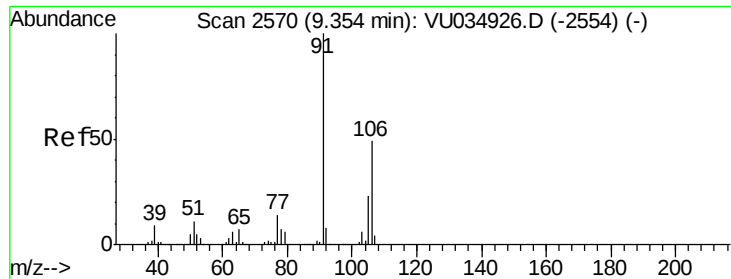
Tgt Ion: 43 Resp: 12314
Ion Ratio Lower Upper
43 100
58 41.4 37.1 55.7
57 13.7 13.4 20.0
100 3.7 7.0 10.4#



#51
Chlorobenzene
Concen: 0.086 ug/L
RT: 9.11 min Scan# 2493
Delta R.T. 0.01 min
Lab File: VU034933.D
Acq: 04 Oct 2019 14:23

Tgt Ion: 112 Resp: 2496
Ion Ratio Lower Upper
112 100
114 26.8 22.7 42.3
77 62.1 51.5 77.3





#53

m,p-Xylene

Concen: 0.150 ug/L

RT: 9.37 min Scan# 2574

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

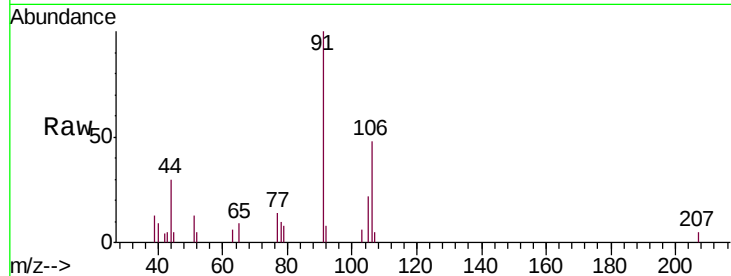
C0K00

Tgt Ion:106 Resp: 2651

Ion Ratio Lower Upper

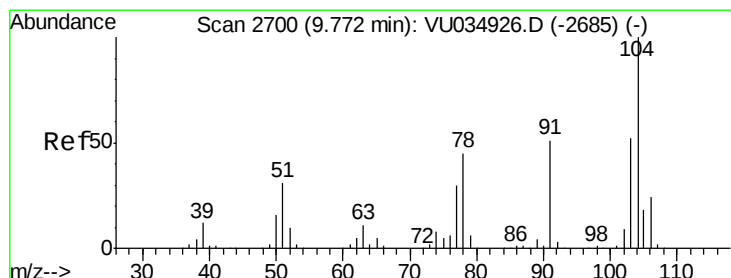
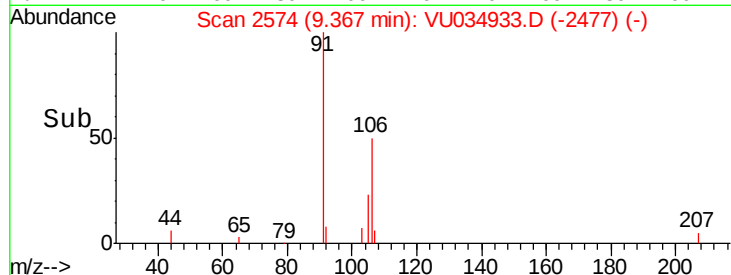
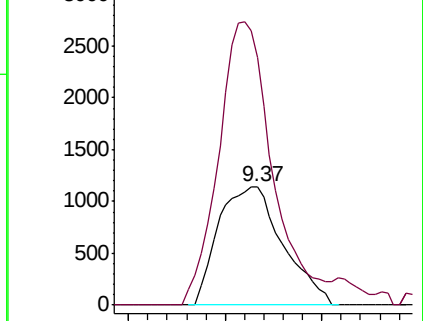
106 100

91 209.4 149.4 277.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.097 ug/L

RT: 9.78 min Scan# 2704

Delta R.T. 0.01 min

Lab File: VU034933.D

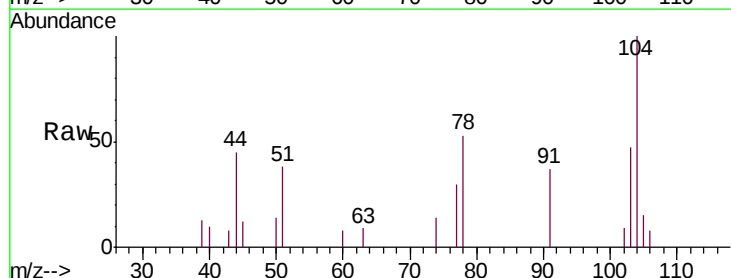
Acq: 04 Oct 2019 14:23

Tgt Ion:104 Resp: 3079

Ion Ratio Lower Upper

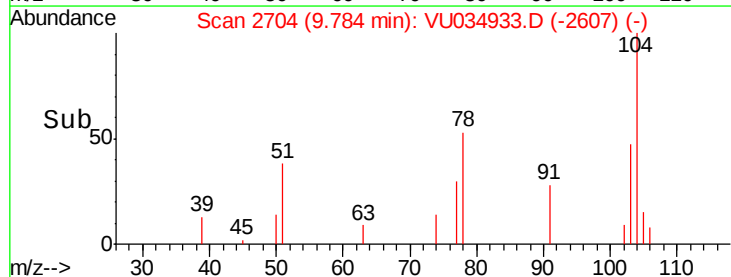
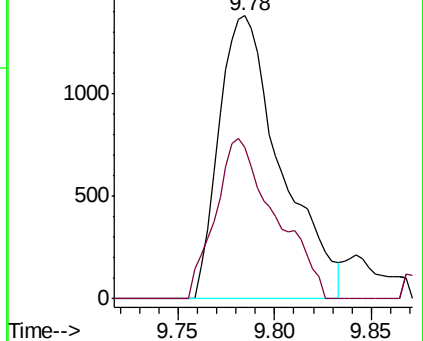
104 100

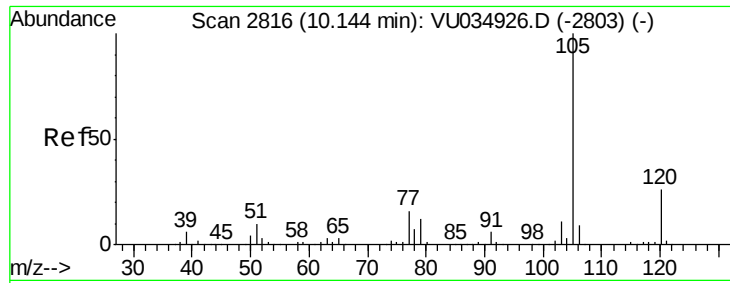
78 53.4 35.4 65.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.084 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

C0K00

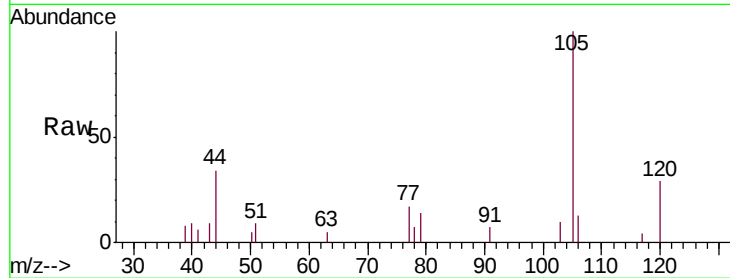
Tgt Ion: 105 Resp: 4488

Ion Ratio Lower Upper

105 100

120 27.3 20.2 30.4

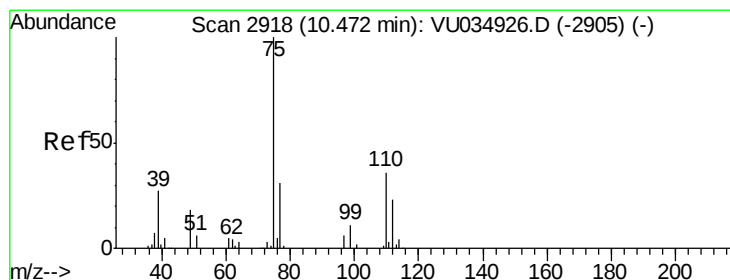
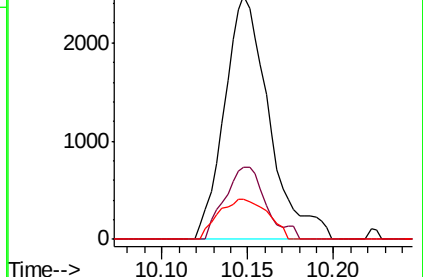
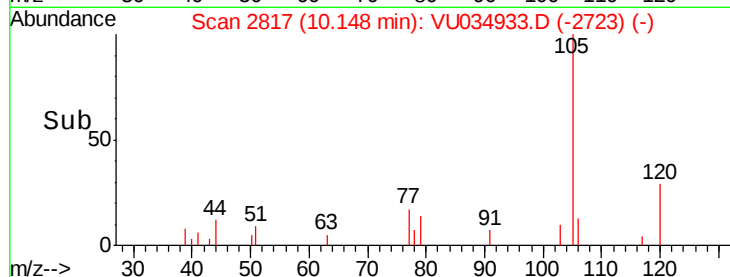
77 18.1 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 1.302 ug/L

RT: 11.46 min Scan# 3226

Delta R.T. 0.99 min

Lab File: VU034933.D

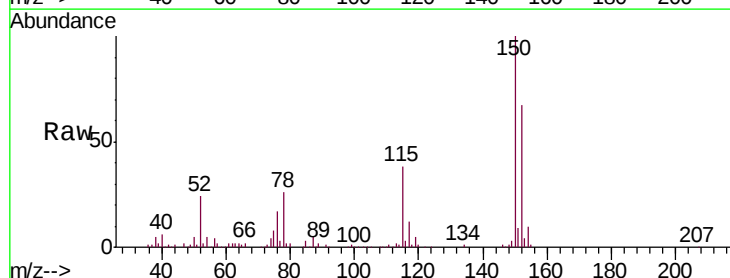
Acq: 04 Oct 2019 14:23

Tgt Ion: 75 Resp: 12423

Ion Ratio Lower Upper

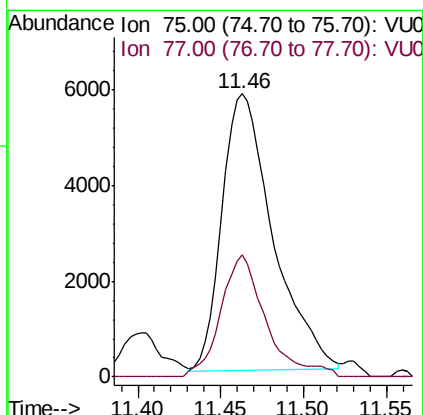
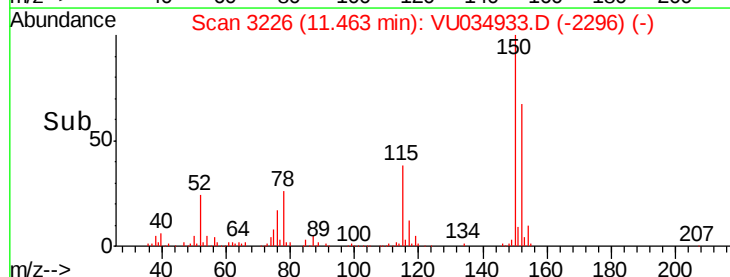
75 100

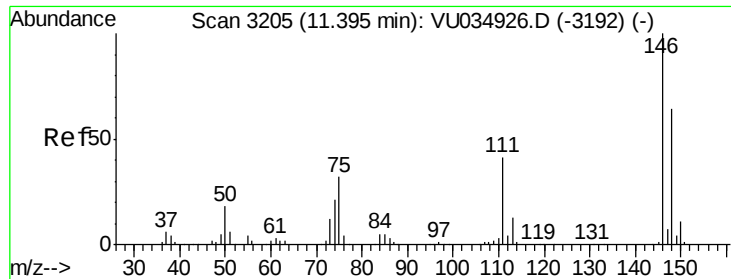
77 38.9 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

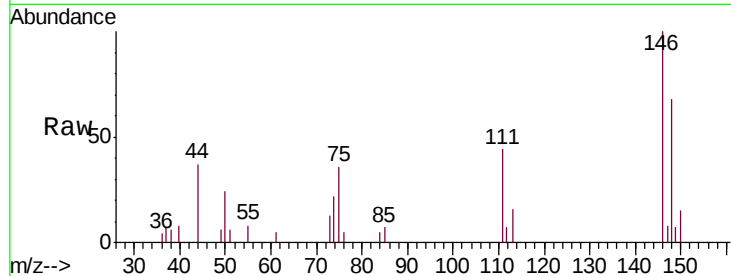




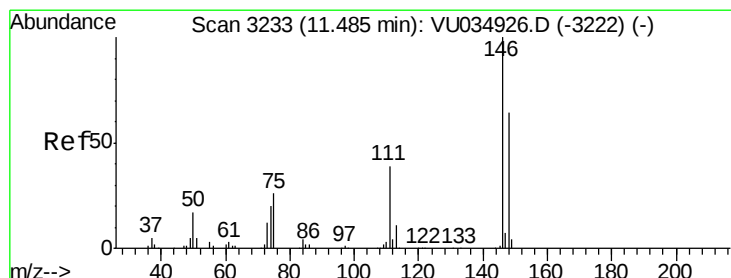
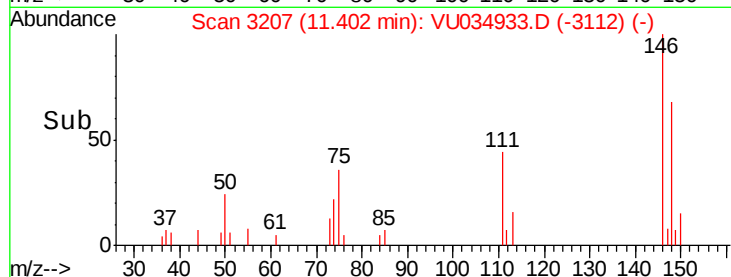
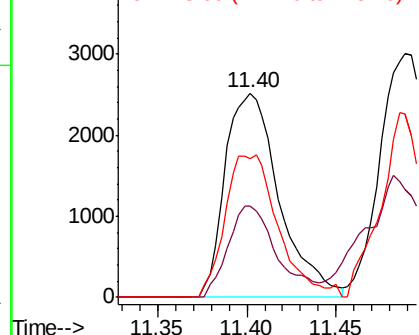
#62
 1,3-Dichlorobenzene
 Concen: 0.229 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.01 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 C0K00

Tgt Ion:146 Resp: 5326
 Ion Ratio Lower Upper
 146 100
 111 44.4 27.7 51.5
 148 68.0 43.3 80.3

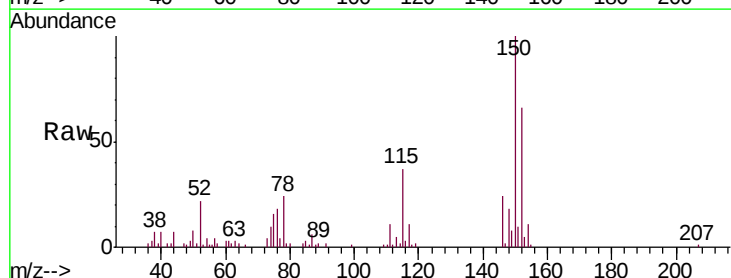


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

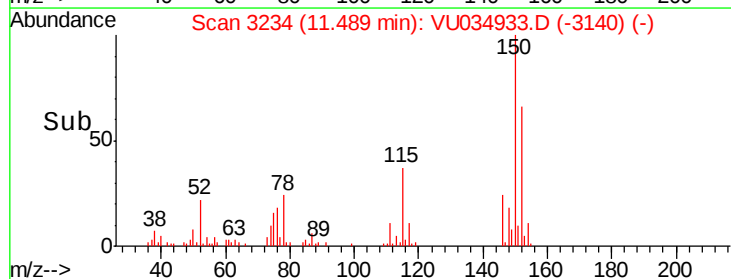
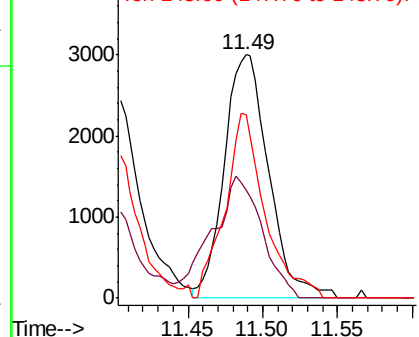


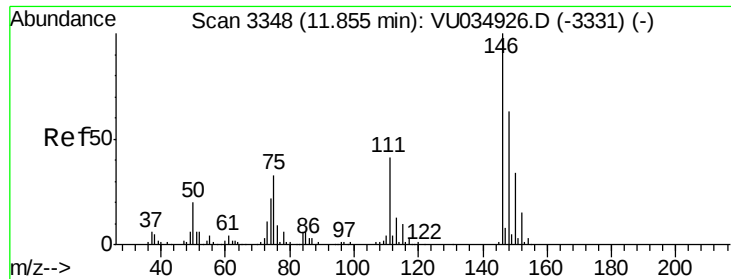
#63
 1,4-Dichlorobenzene
 Concen: 0.259 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Tgt Ion:146 Resp: 6206
 Ion Ratio Lower Upper
 146 100
 111 44.4 27.4 50.8
 148 75.2 44.6 82.8



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.235 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Instrument :

MSVOA_U

ClientSampleId :

C0K00

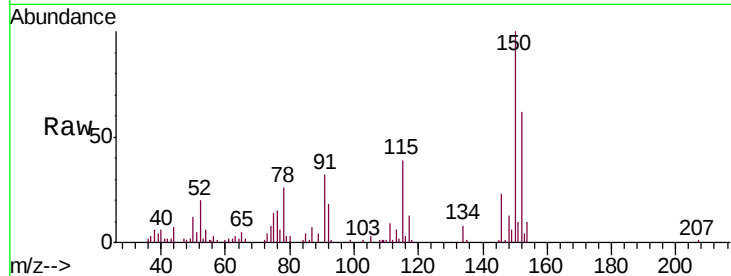
Tgt Ion:146 Resp: 5611

Ion Ratio Lower Upper

146 100

111 37.7 33.4 50.2

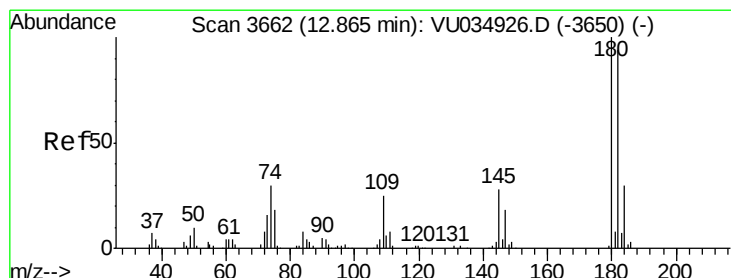
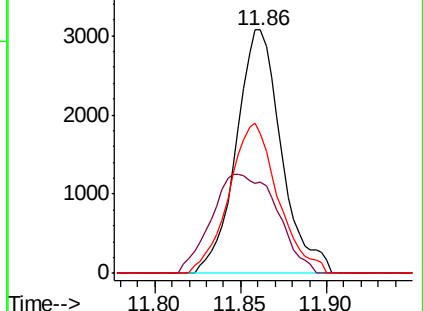
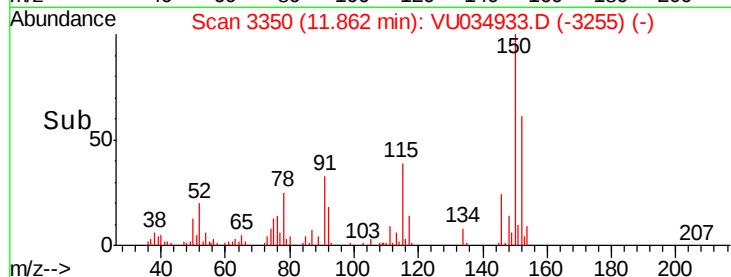
148 57.4 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.475 ug/L

RT: 13.49 min Scan# 3858

Delta R.T. 0.63 min

Lab File: VU034933.D

Acq: 04 Oct 2019 14:23

Tgt Ion:180 Resp: 8117

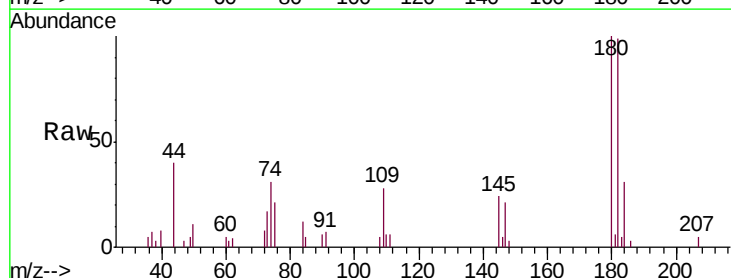
Ion Ratio Lower Upper

180 100

182 94.6 77.0 115.4

184 31.6 24.4 36.6

145 24.3 25.0 37.6#

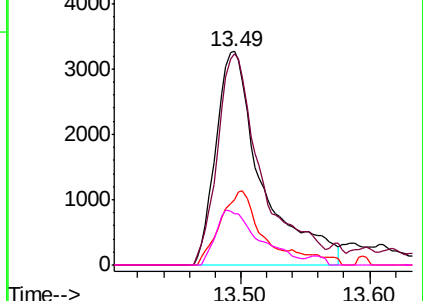
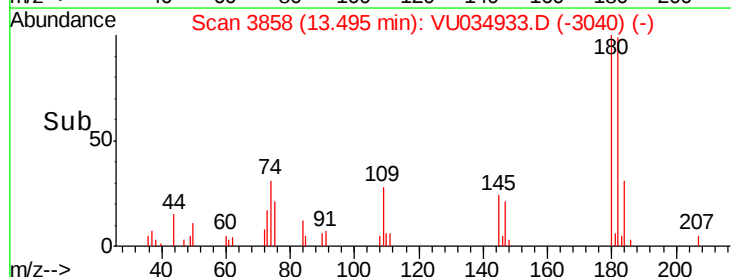


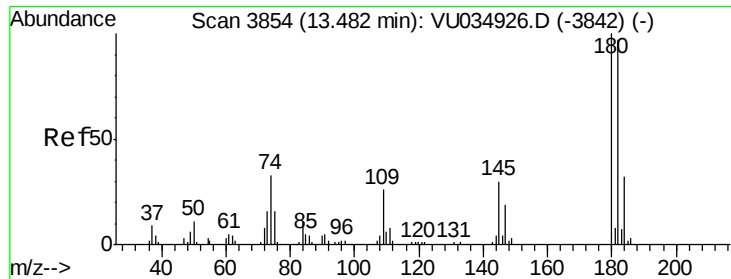
Abundance Ion 180.00 (179.70 to 180.70): V

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

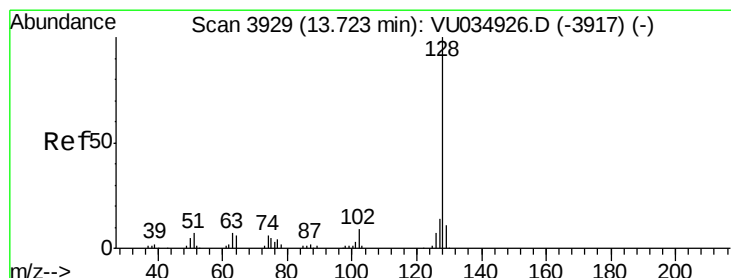
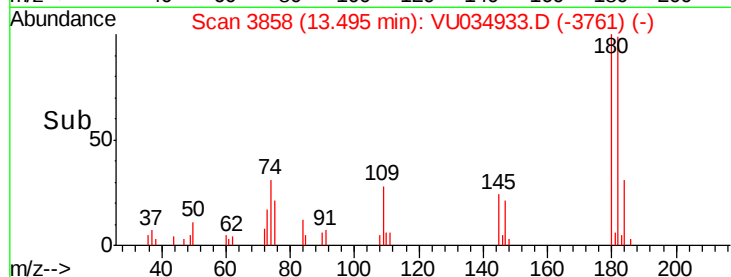
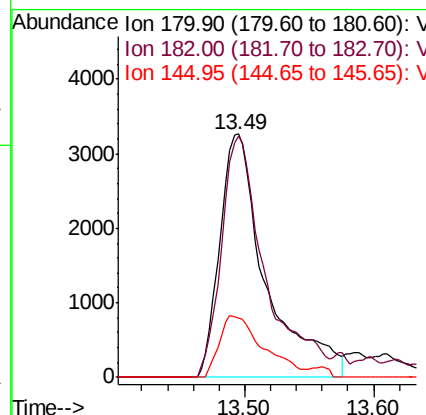
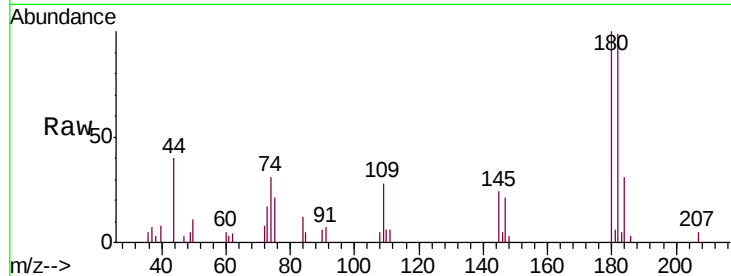




#68
 1,2,4-trichlorobenzene
 Concen: 0.665 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

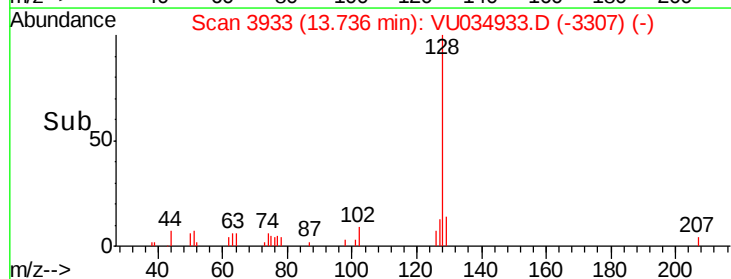
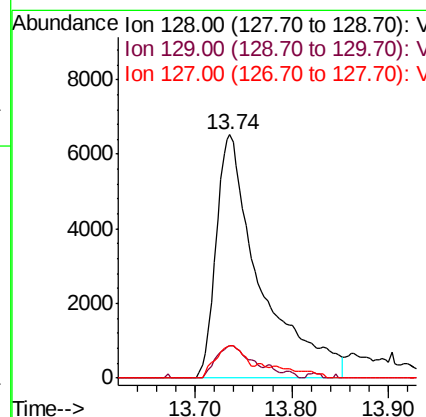
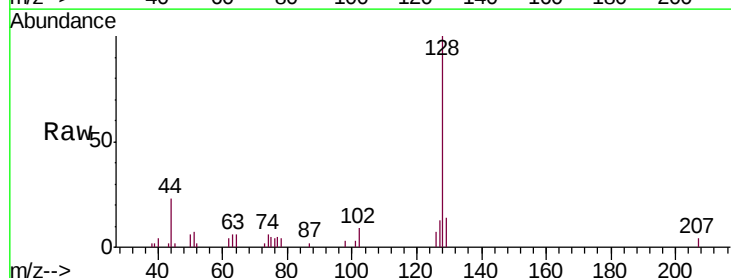
Instrument :
 MSVOA_U
 ClientSampleId :
 C0K00

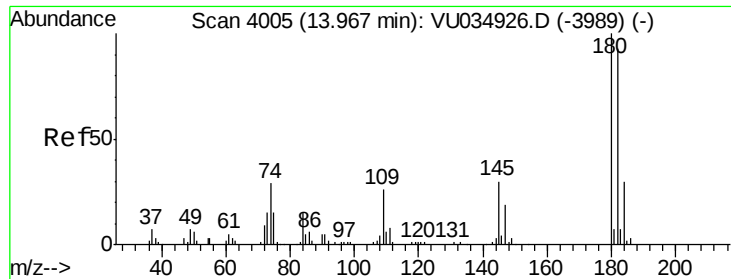
Tgt Ion:180 Resp: 8117
 Ion Ratio Lower Upper
 180 100
 182 94.6 74.3 111.5
 145 24.3 24.0 36.0



#69
 Naphthalene
 Concen: 1.007 ug/L
 RT: 13.74 min Scan# 3933
 Delta R.T. 0.01 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Tgt Ion:128 Resp: 20623
 Ion Ratio Lower Upper
 128 100
 129 9.9 8.5 12.7
 127 9.1 11.0 16.6#

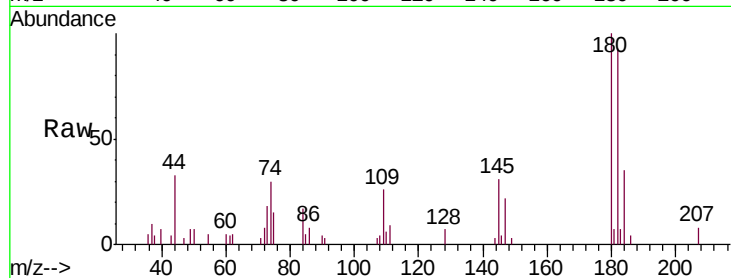




#70
 1,2,3-Trichlorobenzene
 Concen: 0.838 ug/L
 RT: 13.97 min Scan# 4007
 Delta R.T. 0.01 min
 Lab File: VU034933.D
 Acq: 04 Oct 2019 14:23

Instrument :
 MSVOA_U
 ClientSampleId :
 C0K00

Tgt Ion:180 Resp: 10270
 Ion Ratio Lower Upper
 180 100
 182 85.2 78.2 117.2
 145 28.9 25.4 38.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

