

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120919\
 Data File : VU036063.D
 Acq On : 09 Dec 2019 21:45
 Operator : JC/MD
 Sample : K6132-21
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW3

Quant Time: Dec 10 03:39:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 10 01:47:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	260727	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	275957	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	121909	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	99620	4.29	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.80%
7) Chloroethane-d5	1.93	69	124776	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.59	63	145607	3.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.60%
20) 2-Butanone-d5	4.70	46	220587	55.70	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.40%
24) Chloroform-d	5.11	84	177779	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.75	65	92154	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
32) Benzene-d6	5.77	84	341027	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.73	67	105979	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.93	98	289868	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	8.21	79	40375	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.68	63	184711	58.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.30%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	96007	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	116888	4.98	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	90071	3.450	ug/L #	64
8) Chloroethane	1.95	64	62646	3.154	ug/L	92
13) Acetone	2.69	43	46329	9.216	ug/L	94
15) Methyl Acetate	3.00	43	2247	0.303	ug/L #	65
16) Methylene chloride	3.08	84	14253	0.541	ug/L	96
18) trans-1,2-Dichloroethene	3.39	96	1924	0.099	ug/L #	83
19) 1,1-Dichloroethane	3.92	63	223228	6.424	ug/L	98
21) 2-Butanone	4.78	43	94896	18.861	ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	236210	11.624	ug/L	97
25) Chloroform	5.14	83	64991	1.678	ug/L	91
29) 1,1,1-Trichloroethane	5.36	97	103238	3.319	ug/L	98
33) Benzene	5.82	78	106381	1.410	ug/L	100
34) Trichloroethene	6.58	95	4590	0.229	ug/L	92
38) Bromodichloromethane	7.14	83	8769	0.345	ug/L	95
42) Toluene	8.00	91	39452	0.488	ug/L	95
51) Chlorobenzene	9.48	112	64918	1.152	ug/L	96
52) Ethylbenzene	9.60	91	11892	0.140	ug/L	91

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 10 01:47:47 2019
Response via : Initial Calibration

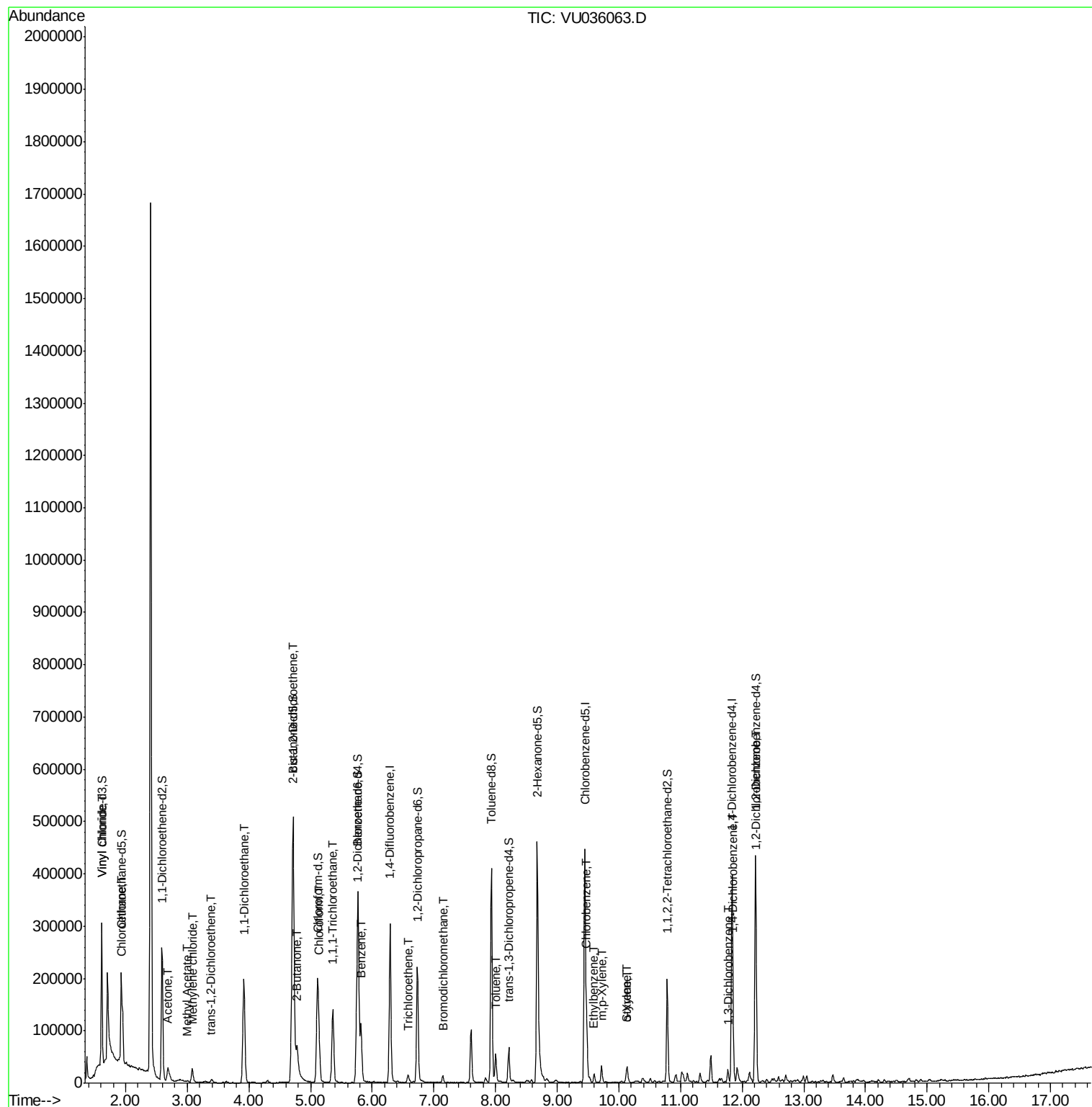
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.72	106	8940	0.265	ug/L	99
54) o-Xylene	10.13	106	6647	0.210	ug/L	89
55) Styrene	10.14	104	7270	0.134	ug/L	84
62) 1,3-Dichlorobenzene	11.77	146	4258	0.107	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	12664	0.322	ug/L	93
65) 1,2-Dichlorobenzene	12.23	146	12495	0.317	ug/L	98

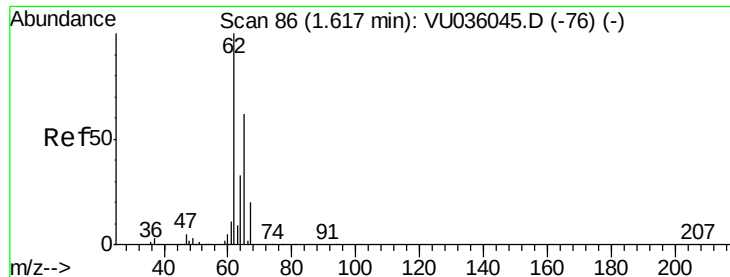
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 3.450 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

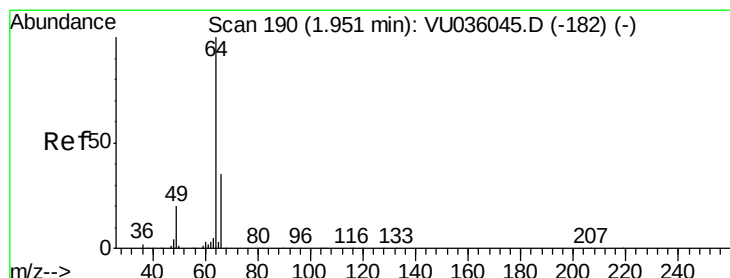
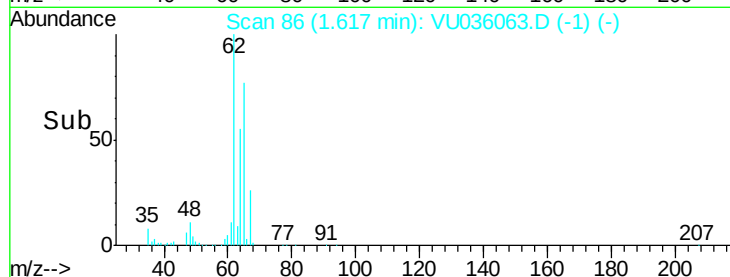
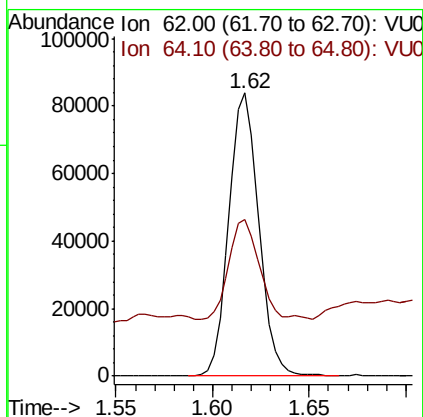
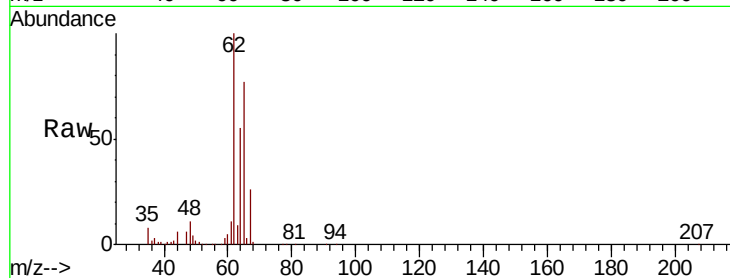
BFQW3

Tot Ion: 62 Resp: 90071

Ion Ratio Lower Upper

62 100

64 55.4 24.3 45.1#



#8

Chloroethane

Concen: 3.154 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036063.D

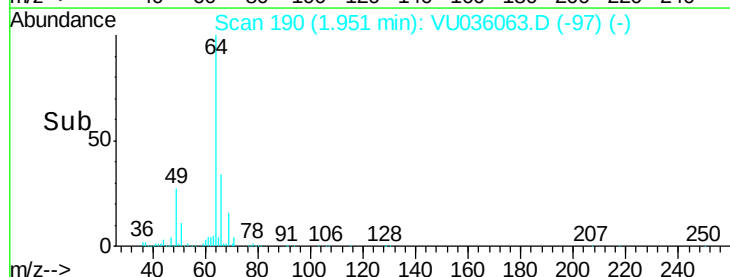
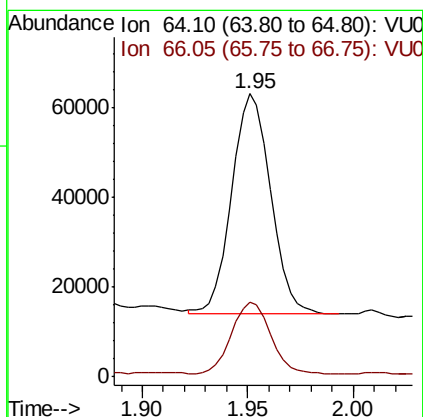
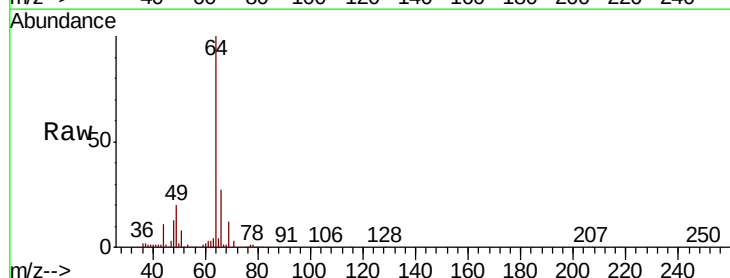
Acq: 09 Dec 2019 21:45

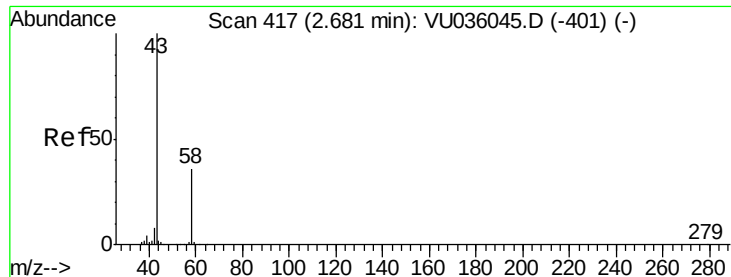
Tgt Ion: 64 Resp: 62646

Ion Ratio Lower Upper

64 100

66 26.6 21.5 39.9





#13

Acetone

Concen: 9.216 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

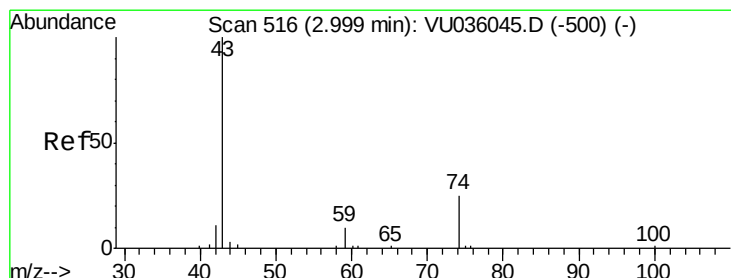
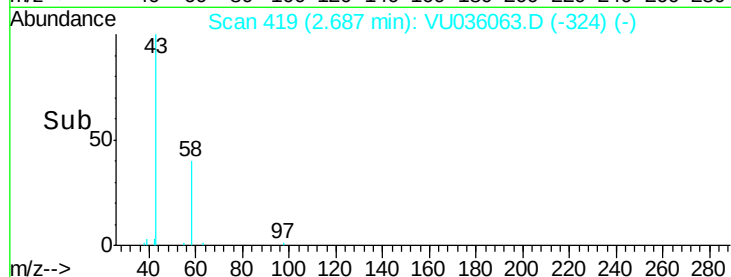
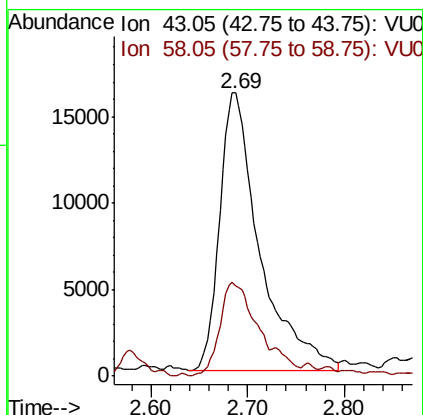
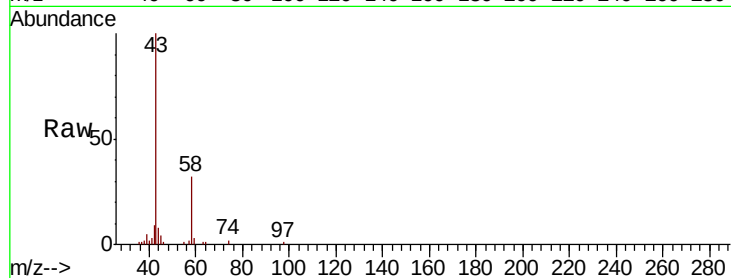
BFQW3

Tot Ion: 43 Resp: 46329

Ion Ratio Lower Upper

43 100

58 33.6 0.0 74.2



#15

Methyl Acetate

Concen: 0.303 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU036063.D

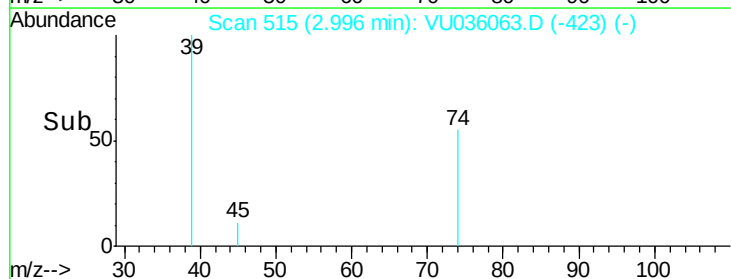
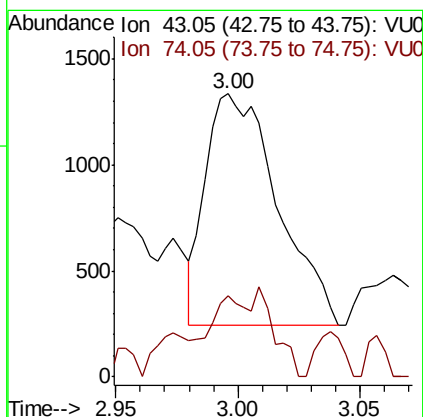
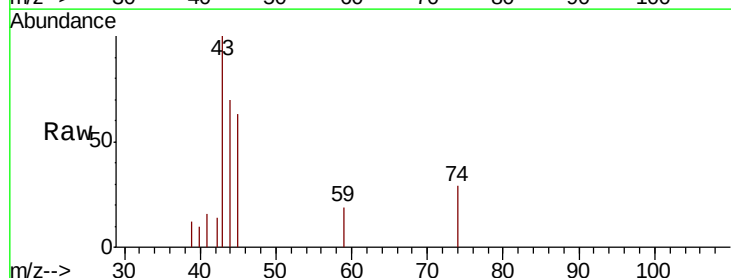
Acq: 09 Dec 2019 21:45

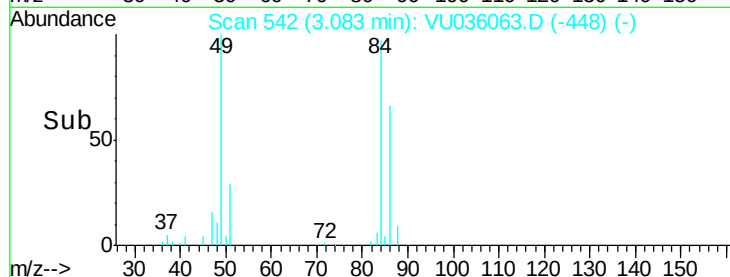
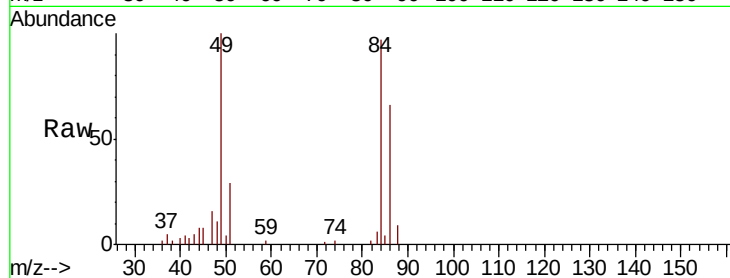
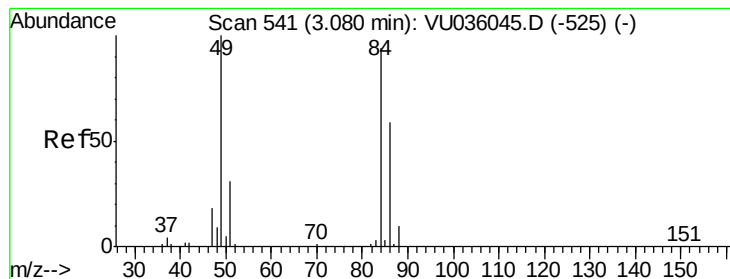
Tgt Ion: 43 Resp: 2247

Ion Ratio Lower Upper

43 100

74 8.2 21.0 31.4#





#16

Methylene chloride

Concen: 0.541 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

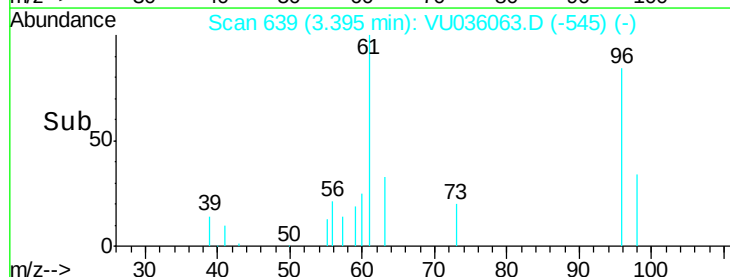
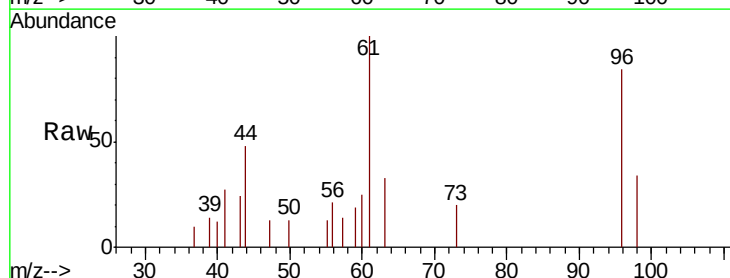
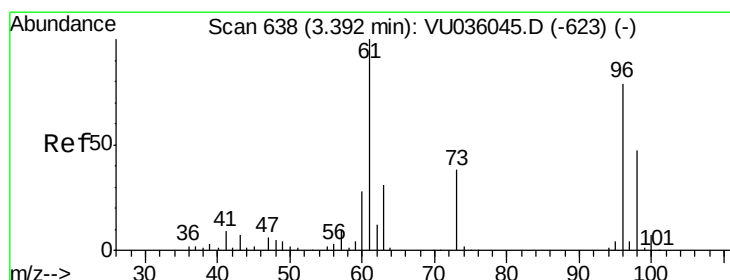
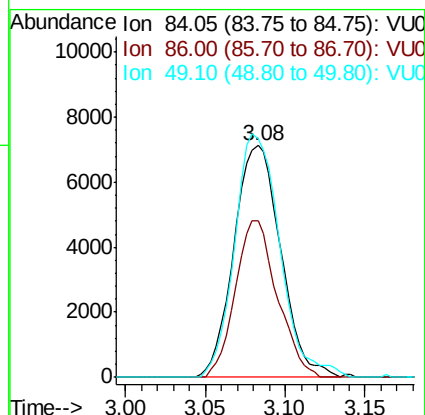
Tot Ion: 84 Resp: 14253

Ion Ratio Lower Upper

84 100

86 67.6 47.5 88.3

49 102.9 76.9 142.9



#18

trans-1,2-Dichloroethene

Concen: 0.099 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

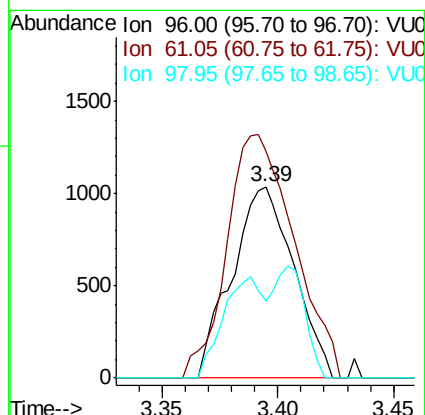
Tgt Ion: 96 Resp: 1924

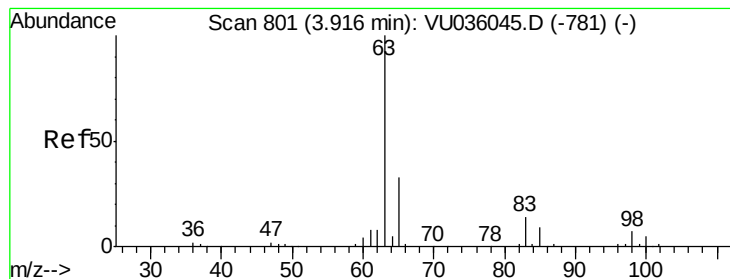
Ion Ratio Lower Upper

96 100

61 118.5 92.0 170.8

98 40.0 44.6 82.8#





#19

1,1-Dichloroethane

Concen: 6.424 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

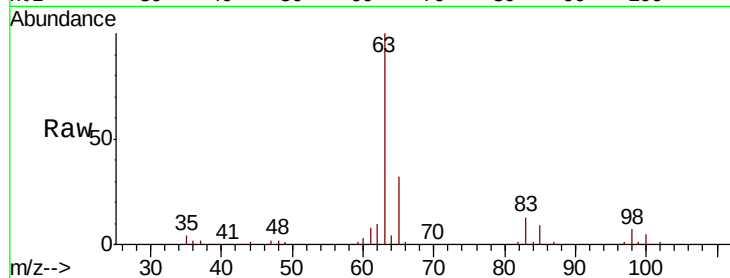
Tot Ion: 63 Resp: 223228

Ion Ratio Lower Upper

63 100

65 32.1 21.8 40.4

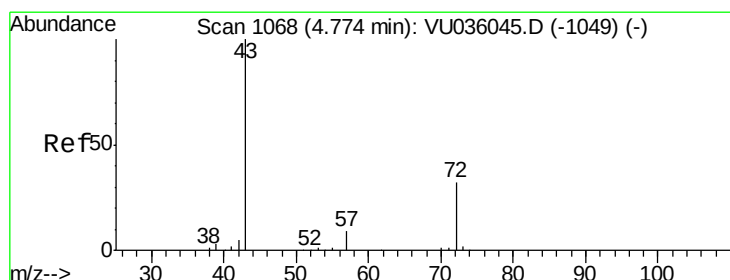
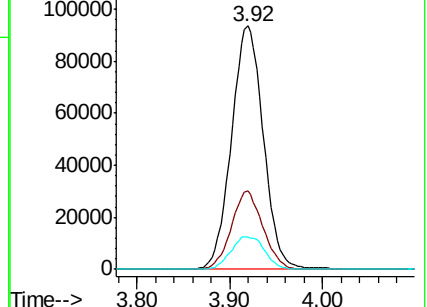
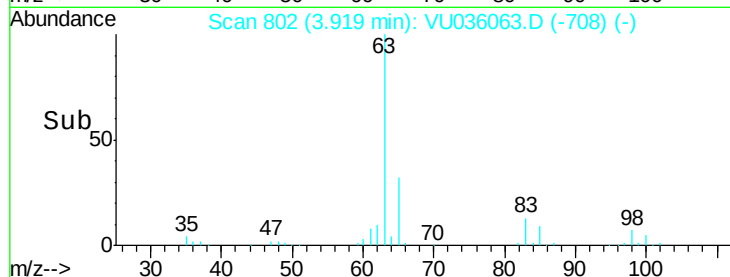
83 13.3 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036063.D (-708) (-)

Ion 65.10 (64.80 to 65.80): VU036063.D (-708) (-)

Ion 83.05 (82.75 to 83.75): VU036063.D (-708) (-)



#21

2-Butanone

Concen: 18.861 ug/L

RT: 4.78 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU036063.D

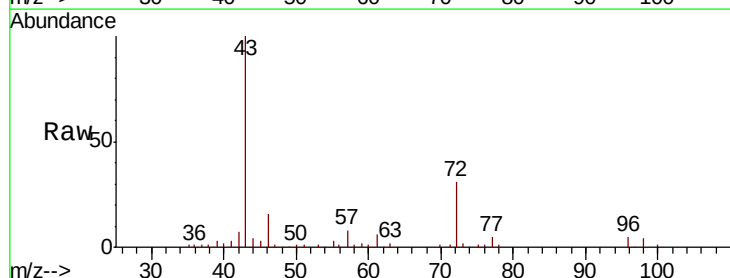
Acq: 09 Dec 2019 21:45

Tgt Ion: 43 Resp: 94896

Ion Ratio Lower Upper

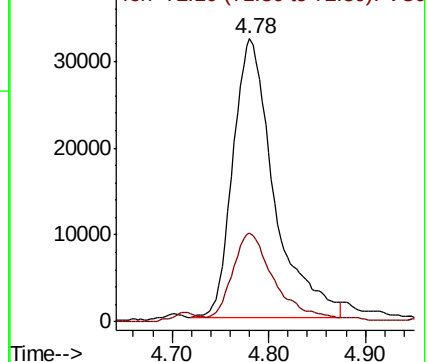
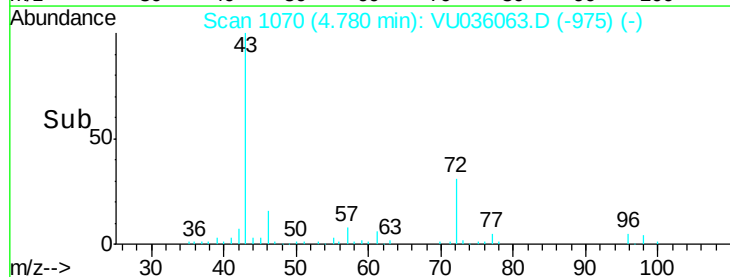
43 100

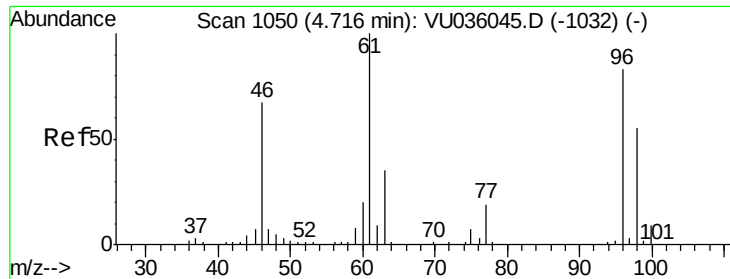
72 30.7 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU036063.D (-975) (-)

Ion 72.10 (71.80 to 72.80): VU036063.D (-975) (-)

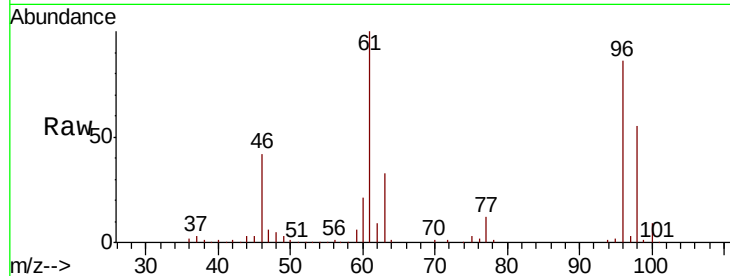




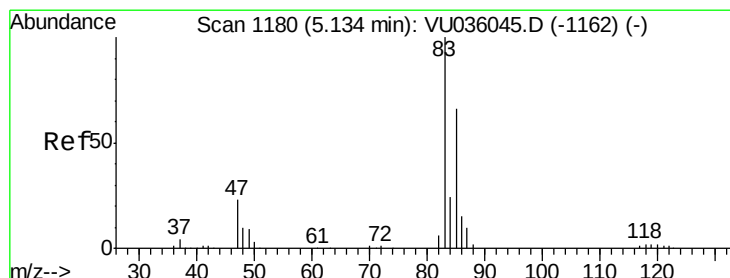
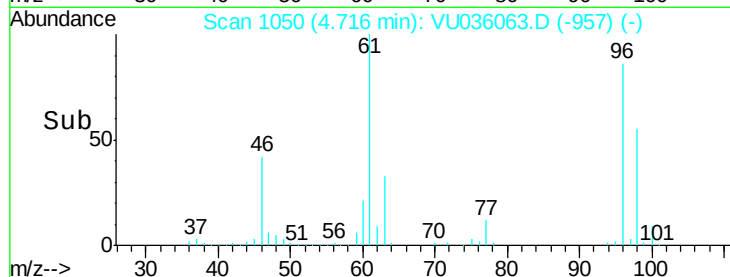
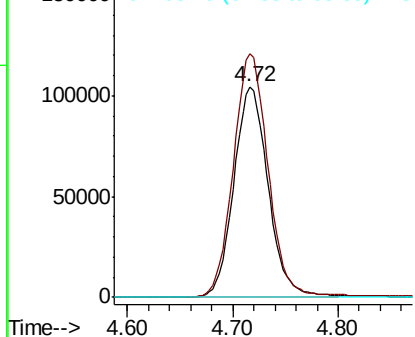
#22
 cis-1,2-Dichloroethene
 Concen: 11.624 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU036063.D
 Acq: 09 Dec 2019 21:45

Instrument :
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Tot Ion: 96 Resp: 236210
 Ion Ratio Lower Upper
 96 100
 61 115.7 83.0 154.2
 68 0.0 0.0 0.0

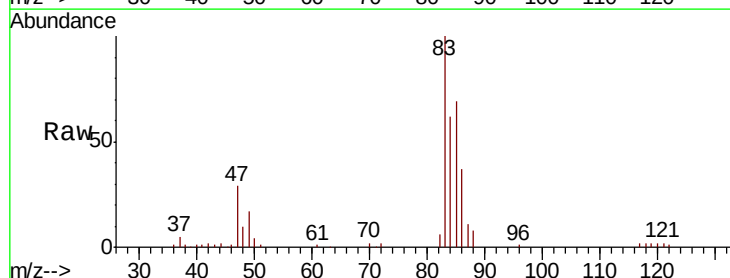


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

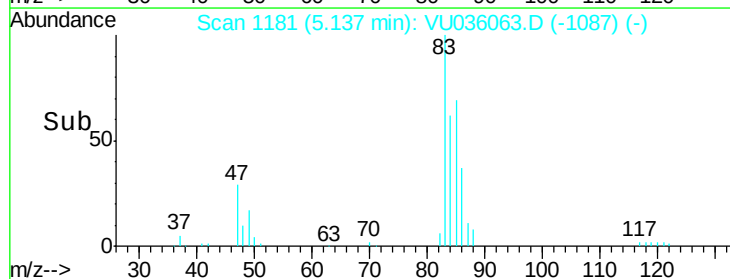
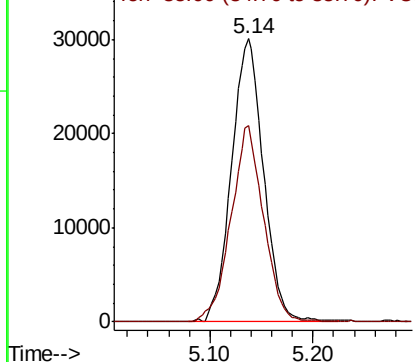


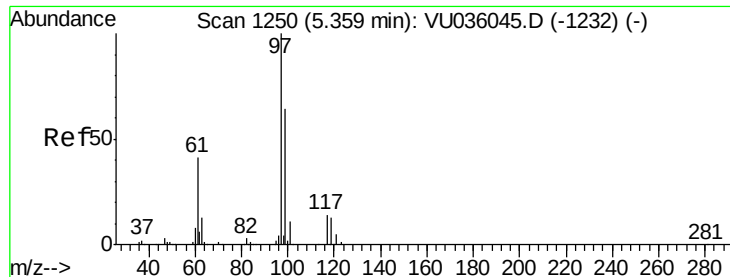
#25
 Chloroform
 Concen: 1.678 ug/L
 RT: 5.14 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VU036063.D
 Acq: 09 Dec 2019 21:45

Tgt Ion: 83 Resp: 64991
 Ion Ratio Lower Upper
 83 100
 85 69.5 43.9 81.5



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

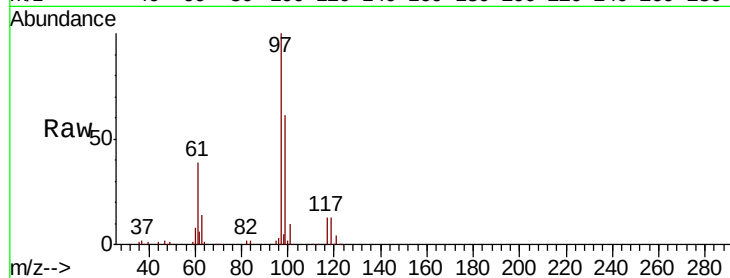




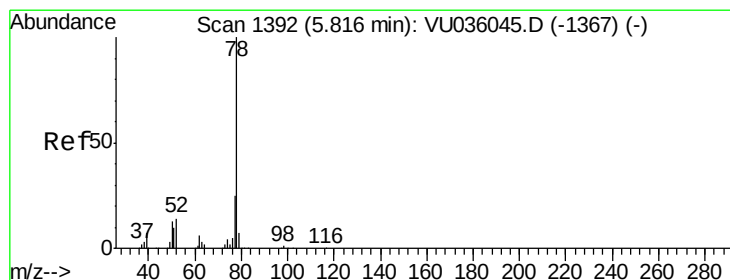
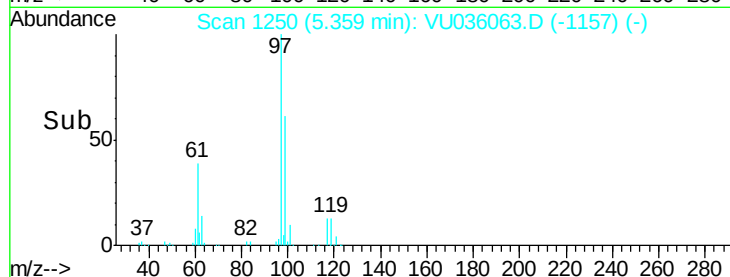
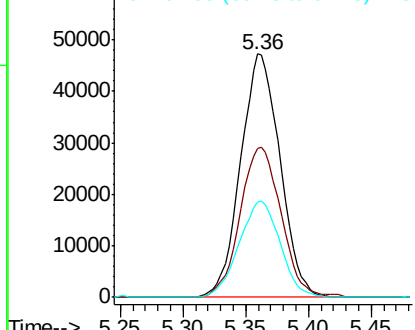
#29
 1,1,1-Trichloroethane
 Concen: 3.319 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VU036063.D
 Acq: 09 Dec 2019 21:45

Instrument :
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 ClientSampleId :
 BFQW3

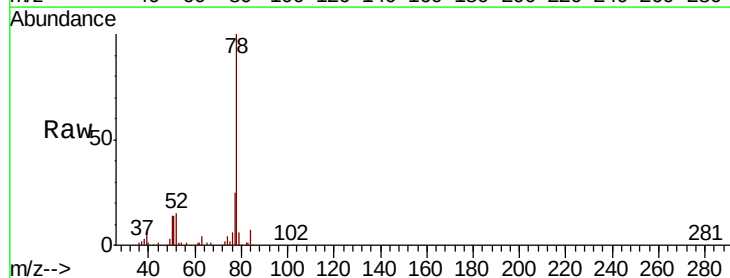
Tot Ion: 97 Resp: 103238
 Ion Ratio Lower Upper
 97 100
 99 64.4 52.2 78.2
 61 41.3 34.7 52.1



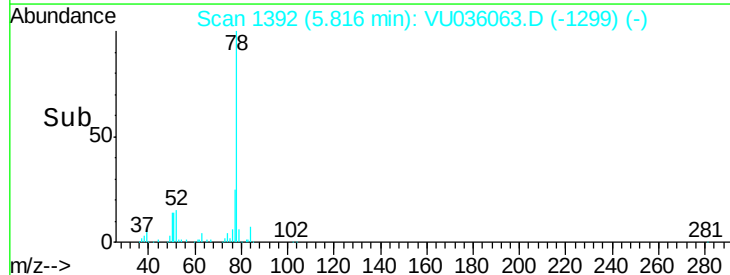
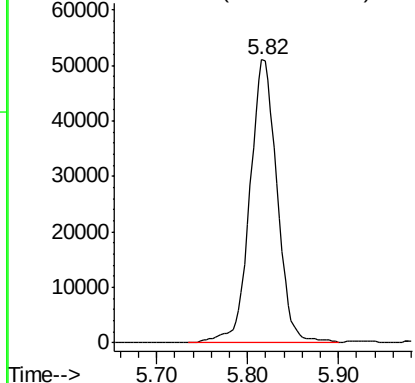
Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

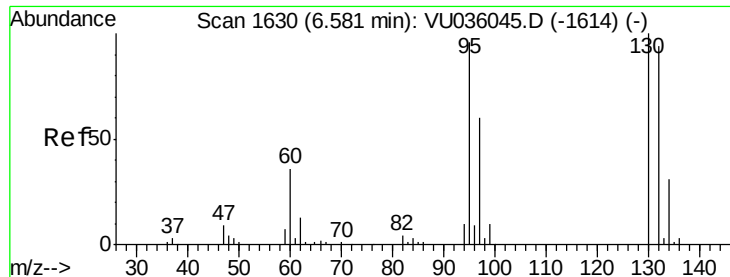


#33
 Benzene
 Concen: 1.410 ug/L
 RT: 5.82 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VU036063.D
 Acq: 09 Dec 2019 21:45
 Tgt Ion: 78 Resp: 106381



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.229 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

Tot Ion: 95 Resp: 4590

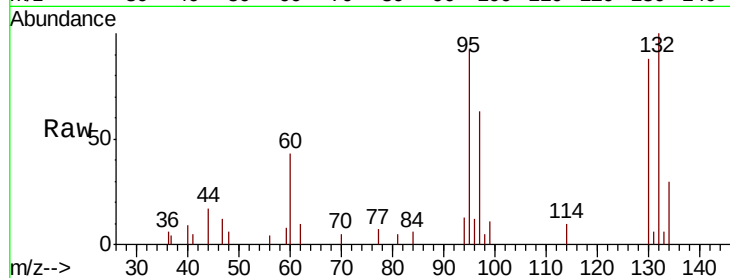
Ion Ratio Lower Upper

95 100

97 68.6 44.4 82.4

132 109.2 73.4 136.4

130 96.5 75.9 141.1

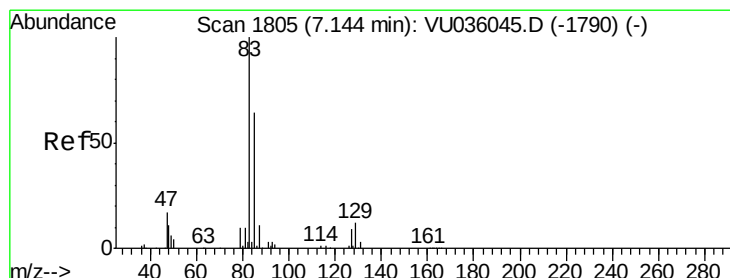
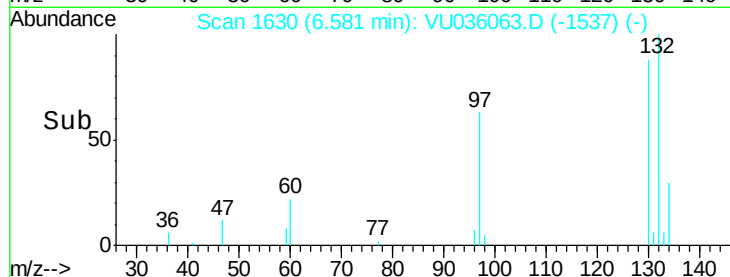
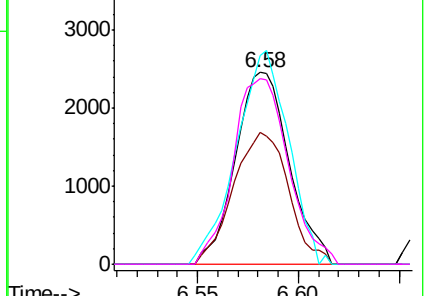


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#38

Bromodichloromethane

Concen: 0.345 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

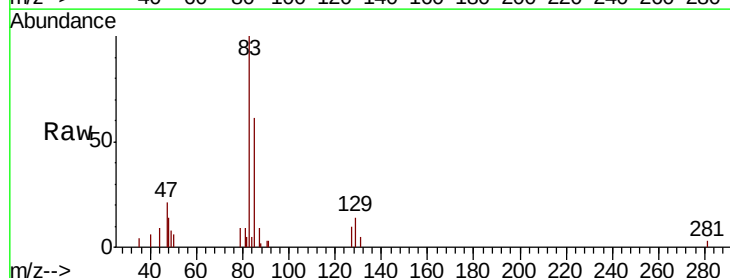
Tgt Ion: 83 Resp: 8769

Ion Ratio Lower Upper

83 100

85 60.8 45.2 84.0

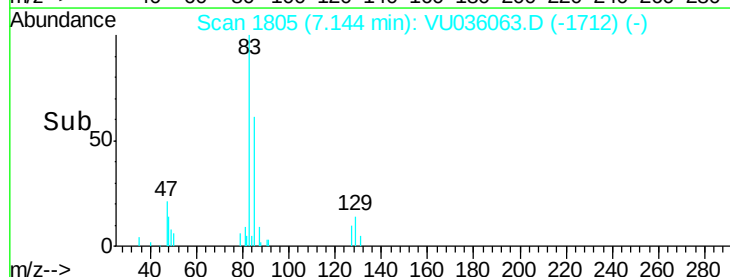
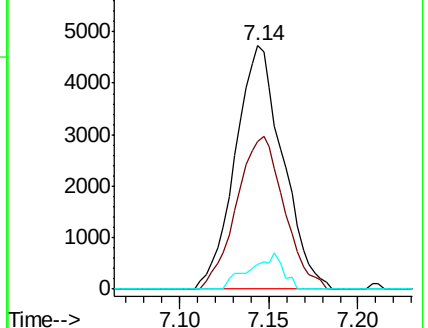
127 10.3 7.4 11.2

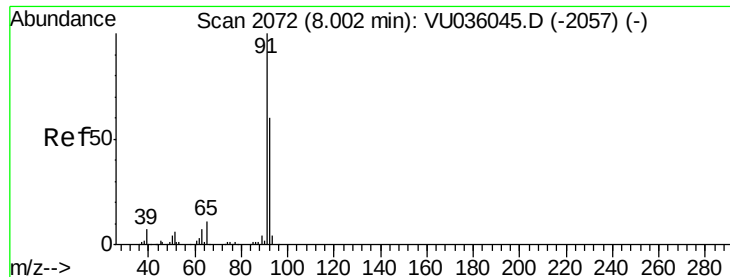


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V





#42

Toluene

Concen: 0.488 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

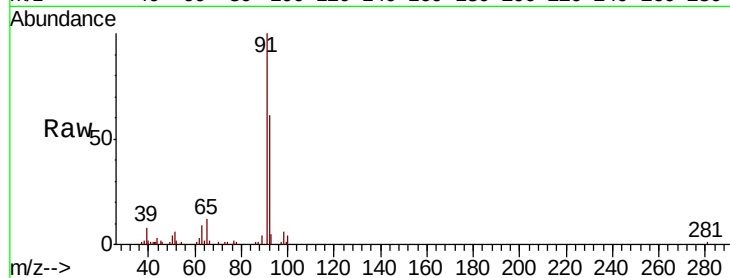
BFQW3

Tot Ion: 91 Resp: 39452

Ion Ratio Lower Upper

91 100

92 60.6 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU036045.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036045.D (-2057) (-)

8.00

25000

20000

15000

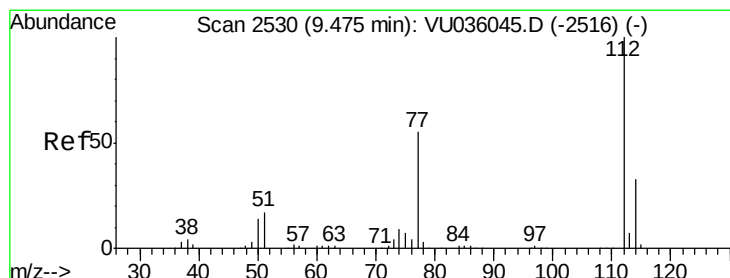
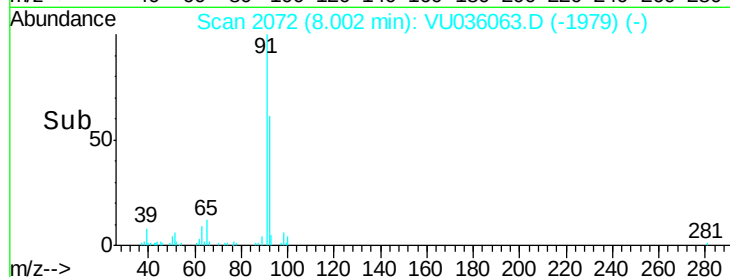
10000

5000

0

Time-->

7.95 8.00 8.05 8.10



#51

Chlorobenzene

Concen: 1.152 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

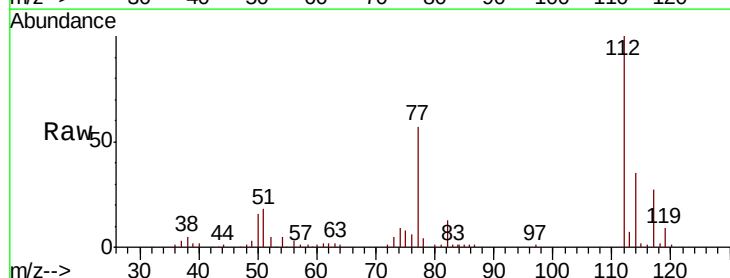
Tgt Ion: 112 Resp: 64918

Ion Ratio Lower Upper

112 100

114 35.1 22.3 41.5

77 56.9 43.8 65.8



Abundance Ion 112.10 (111.80 to 112.80): VU036045.D (-2516) (-)

Ion 114.05 (113.75 to 114.75): VU036045.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036045.D (-2516) (-)

9.48

50000

40000

30000

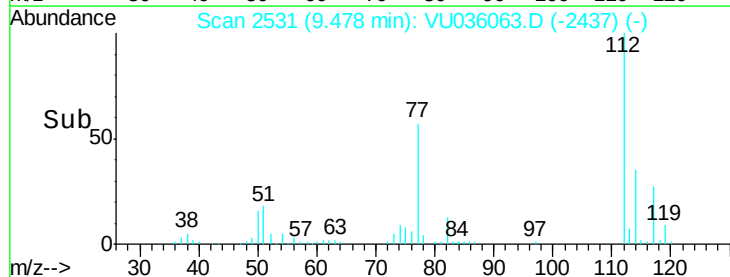
20000

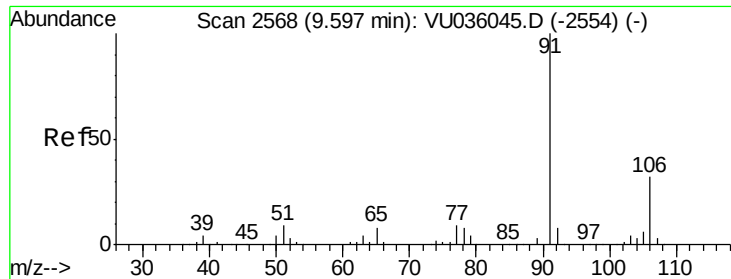
10000

0

Time-->

9.40 9.45 9.50 9.55





#52

Ethylbenzene

Concen: 0.140 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

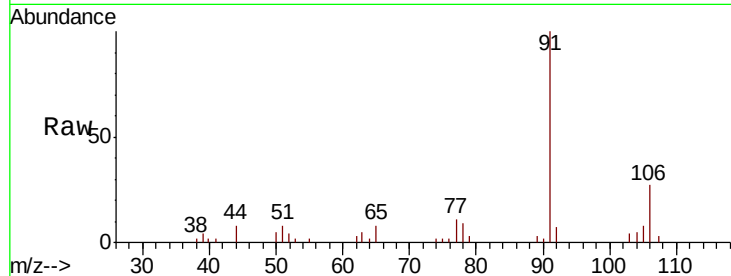
BFQW3

Tot Ion: 91 Resp: 11892

Ion Ratio Lower Upper

91 100

106 26.7 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036045.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036045.D (-2554) (-)

9.60

8000

6000

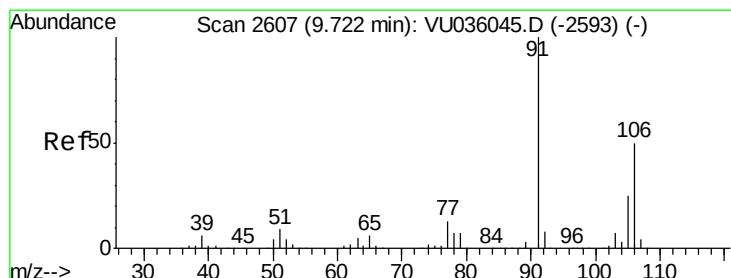
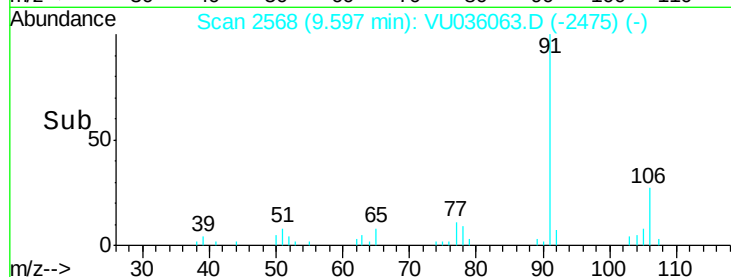
4000

2000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.265 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036063.D

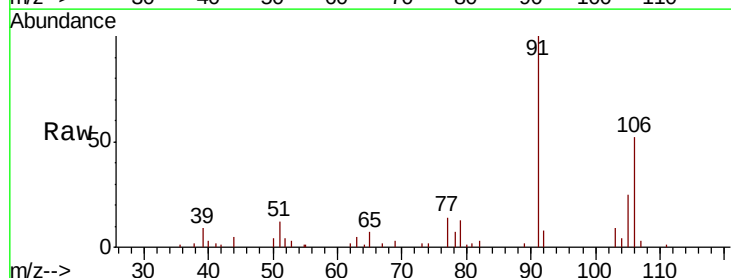
Acq: 09 Dec 2019 21:45

Tgt Ion: 106 Resp: 8940

Ion Ratio Lower Upper

106 100

91 193.7 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): VU036045.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU036045.D (-2593) (-)

9.72

12000

10000

8000

6000

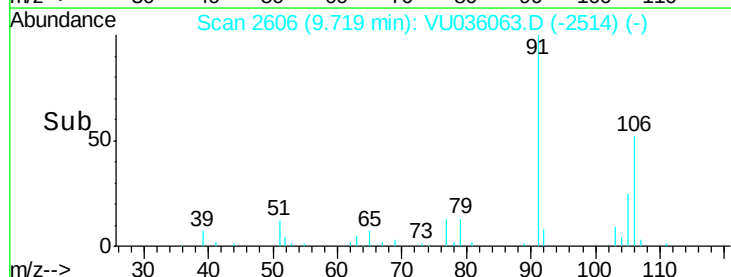
4000

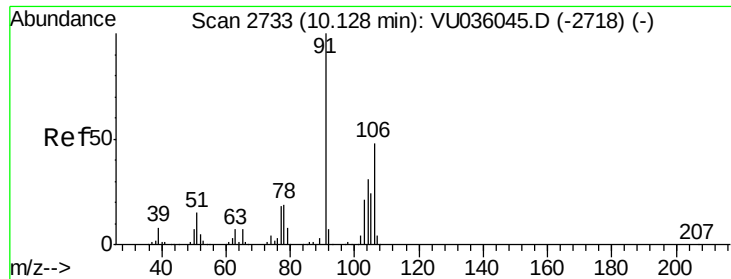
2000

0

9.65 9.70 9.75

Time-->

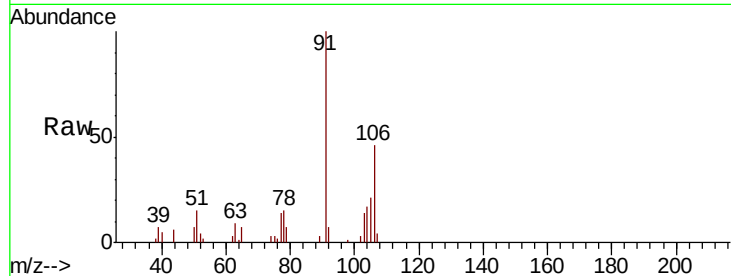




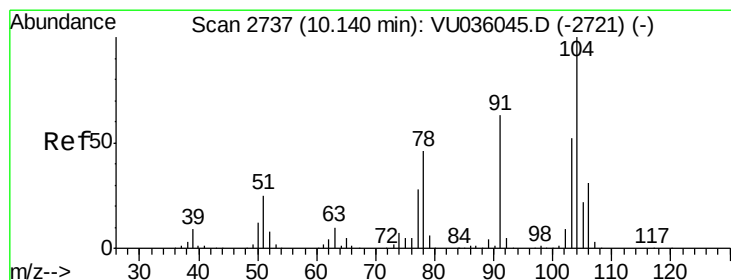
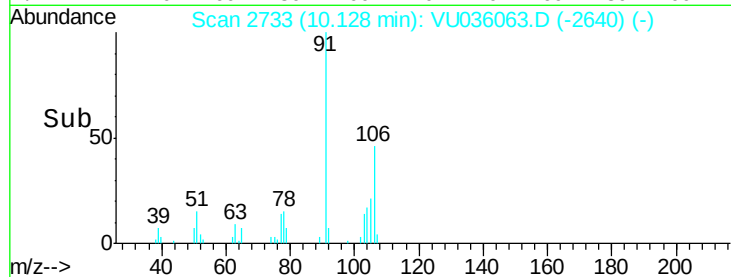
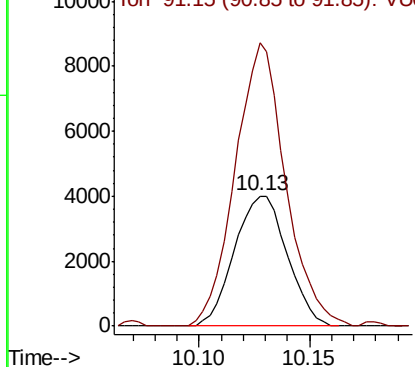
#54
o-Xylene
Concen: 0.210 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036063.D
Acq: 09 Dec 2019 21:45

Instrument :
MSVOA_U
ClientSampleId :
BFQW3

Tot Ion:106 Resp: 6647
Ion Ratio Lower Upper
106 100
91 217.4 140.6 261.2

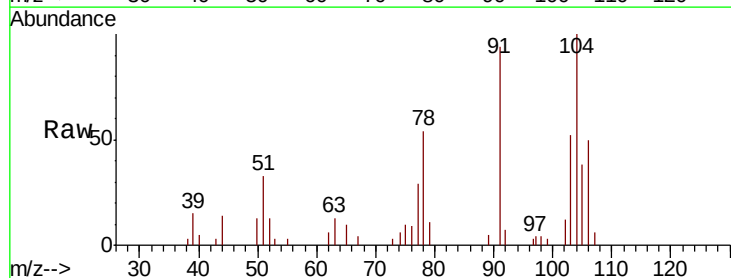


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

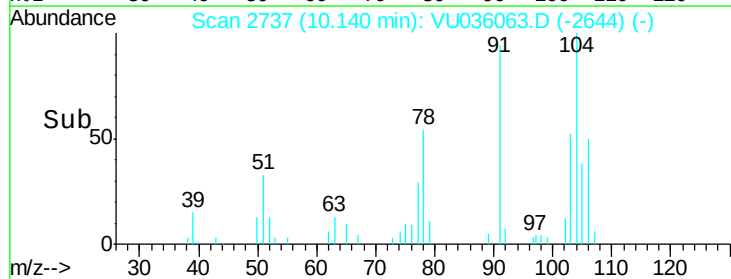
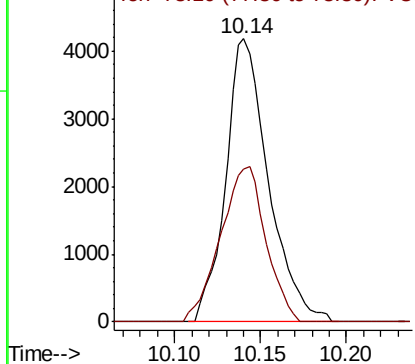


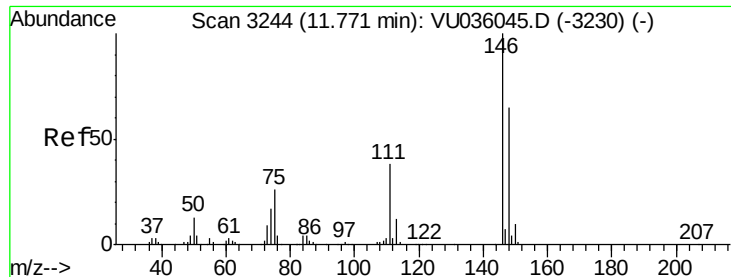
#55
Styrene
Concen: 0.134 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036063.D
Acq: 09 Dec 2019 21:45

Tgt Ion:104 Resp: 7270
Ion Ratio Lower Upper
104 100
78 54.2 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#62

1,3-Dichlorobenzene

Concen: 0.107 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

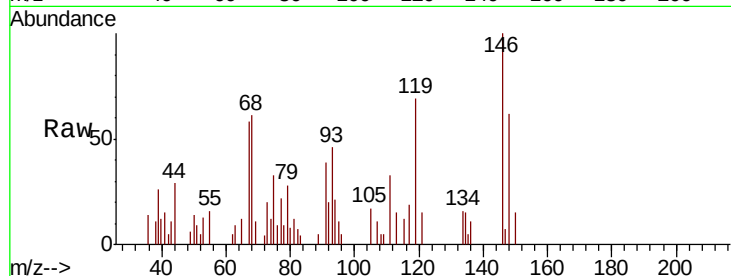
Tot Ion:146 Resp: 4258

Ion Ratio Lower Upper

146 100

111 32.9 26.0 48.2

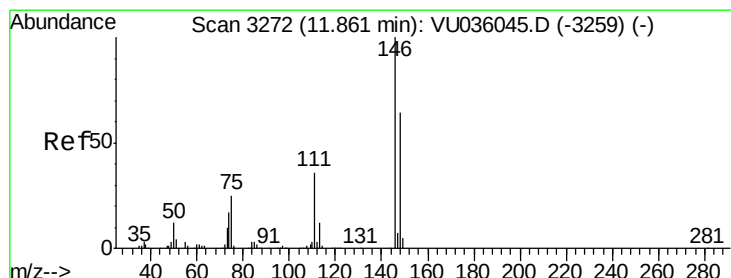
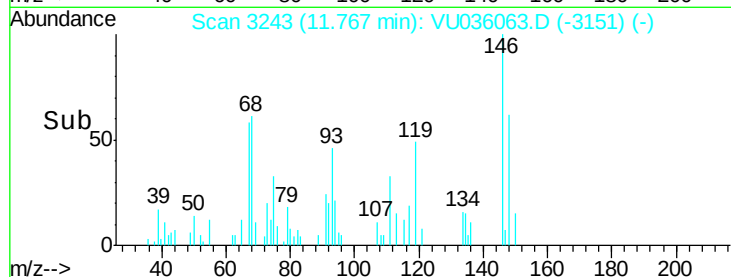
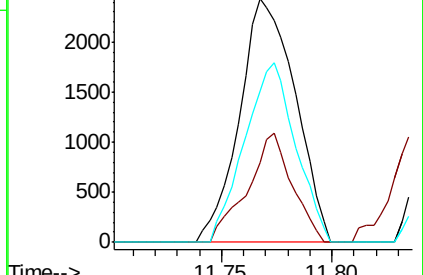
148 62.3 43.7 81.1



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: 0.322 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

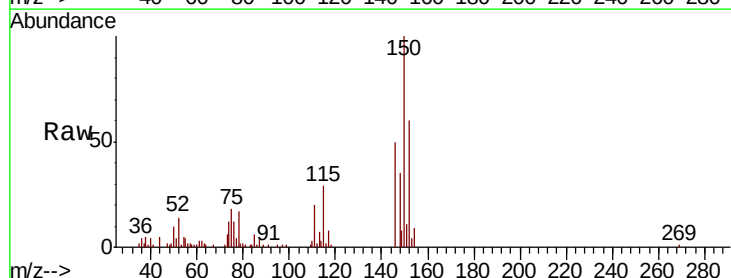
Tgt Ion:146 Resp: 12664

Ion Ratio Lower Upper

146 100

111 40.1 26.2 48.6

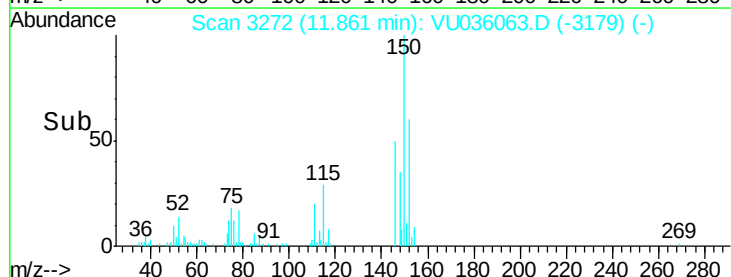
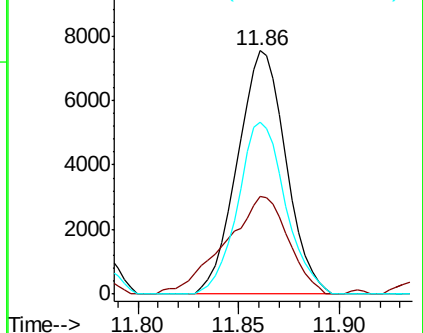
148 70.7 44.9 83.5

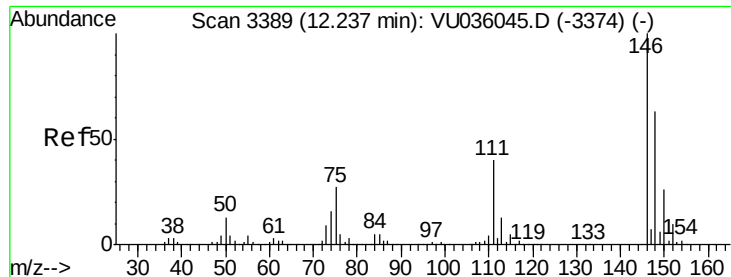


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.317 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036063.D

Acq: 09 Dec 2019 21:45

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

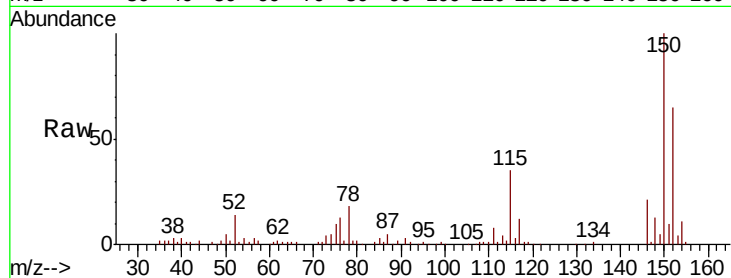
Tot Ion:146 Resp: 12495

Ion Ratio Lower Upper

146 100

111 38.4 31.3 46.9

148 60.8 50.5 75.7



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

