

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120919\
 Data File : VU036064.D
 Acq On : 09 Dec 2019 22:10
 Operator : JC/MD
 Sample : K6132-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

Quant Time: Dec 10 03:44:02 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	266546	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	280323	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	118201	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	101415	4.27	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.40%
7) Chloroethane-d5	1.93	69	127804	5.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.40%
11) 1,1-Dichloroethene-d2	2.59	63	117354	2.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.00%#
20) 2-Butanone-d5	4.70	46	226180	55.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.74%
24) Chloroform-d	5.11	84	178074	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.75	65	91663	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
32) Benzene-d6	5.77	84	344883	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.73	67	102778	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.93	98	296701	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	8.21	79	41123	4.61	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.20%
46) 2-Hexanone-d5	8.68	63	189475	58.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.44%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	97547	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	120316	5.29	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	77823	2.916	ug/L #	81
8) Chloroethane	1.95	64	57327	2.823	ug/L	95
13) Acetone	2.68	43	60494	11.771	ug/L	96
16) Methylene chloride	3.08	84	13372	0.497	ug/L	93
19) 1,1-Dichloroethane	3.92	63	191929	5.402	ug/L	98
21) 2-Butanone	4.78	43	94747	18.420	ug/L	93
22) cis-1,2-Dichloroethene	4.72	96	200890	9.670	ug/L	99
25) Chloroform	5.14	83	69583	1.758	ug/L	91
29) 1,1,1-Trichloroethane	5.36	97	88028	2.786	ug/L	95
33) Benzene	5.82	78	92982	1.214	ug/L	100
34) Trichloroethene	6.58	95	4383	0.215	ug/L	93
38) Bromodichloromethane	7.14	83	9523	0.369	ug/L	95
42) Toluene	8.00	91	34639	0.422	ug/L	96
51) Chlorobenzene	9.48	112	62094	1.084	ug/L	99
52) Ethylbenzene	9.60	91	9760	0.113	ug/L	96
53) m,p-Xylene	9.72	106	8374	0.244	ug/L	94
54) o-Xylene	10.13	106	5591	0.174	ug/L	83

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QLast Update : Tue Dec 10 01:47:47 2019
Response via : Initial Calibration

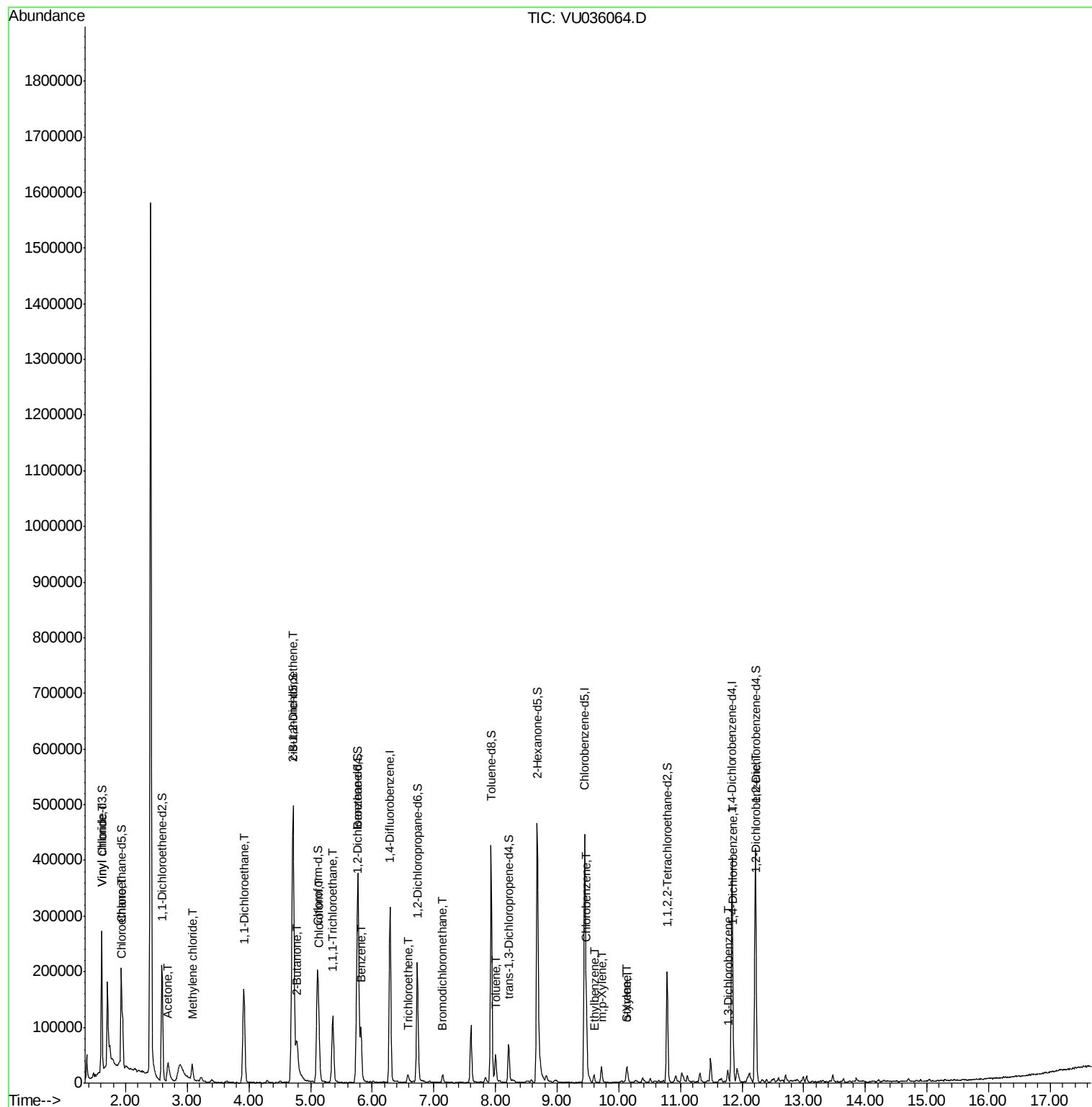
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.14	104	7337	0.133	ug/L	95
62) 1,3-Dichlorobenzene	11.77	146	3747	0.097	ug/L	91
63) 1,4-Dichlorobenzene	11.86	146	11225	0.295	ug/L	96
65) 1,2-Dichlorobenzene	12.24	146	11241	0.294	ug/L	95

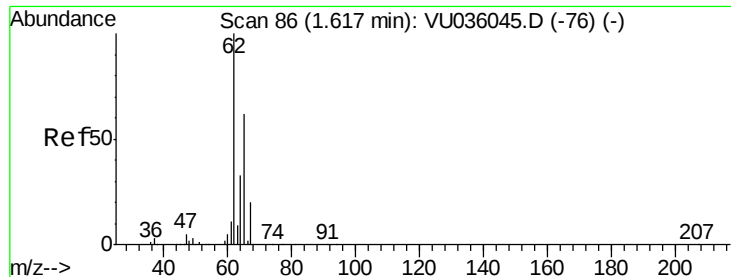
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.916 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

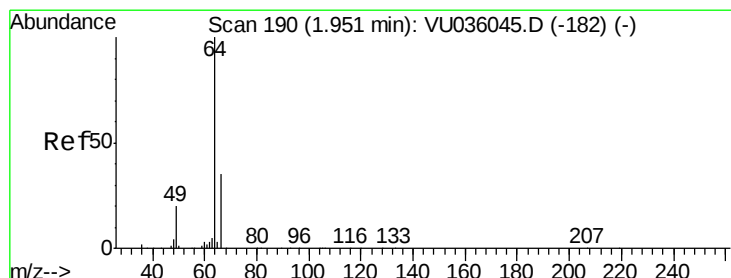
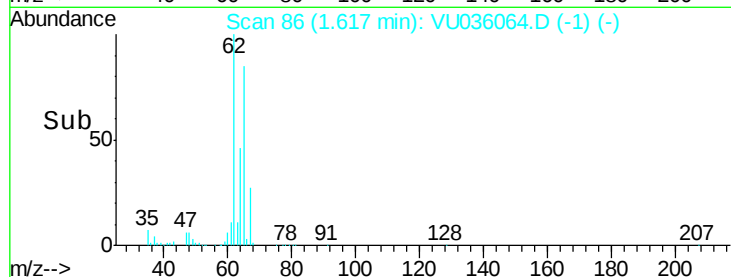
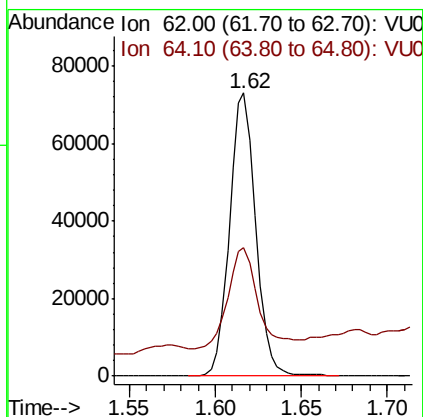
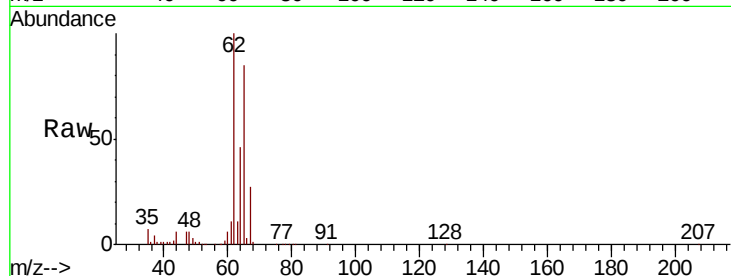
BFQW4

Tot Ion: 62 Resp: 77823

Ion Ratio Lower Upper

62 100

64 45.6 24.3 45.1#



#8

Chloroethane

Concen: 2.823 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036064.D

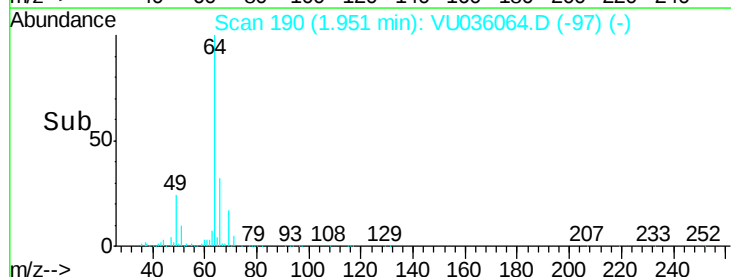
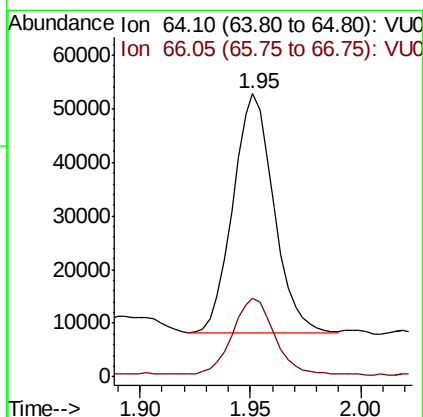
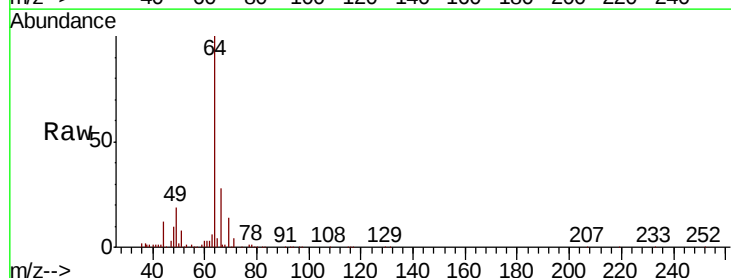
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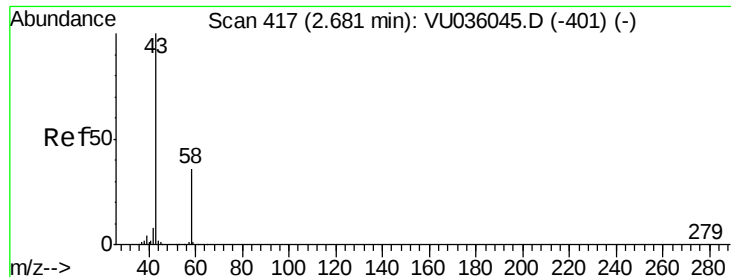
Tgt Ion: 64 Resp: 57327

Ion Ratio Lower Upper

64 100

66 27.7 21.5 39.9





#13

Acetone

Concen: 11.771 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

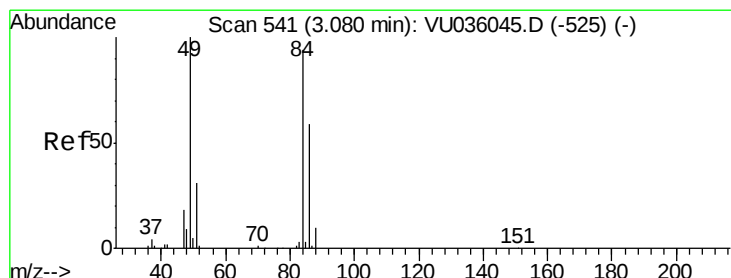
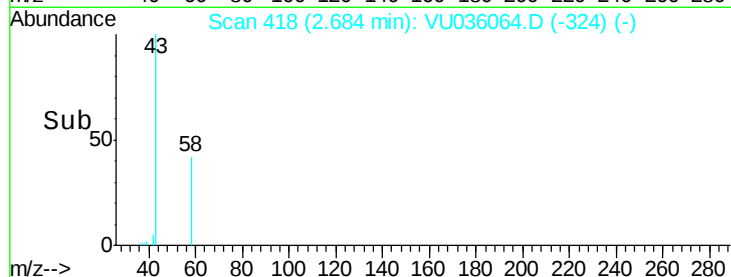
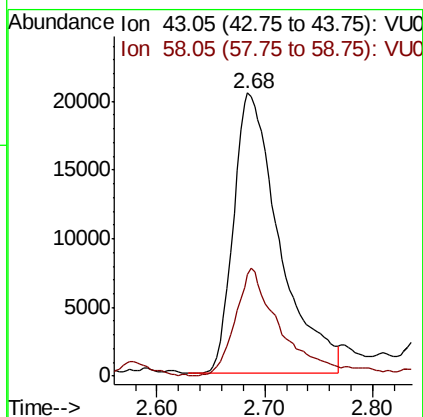
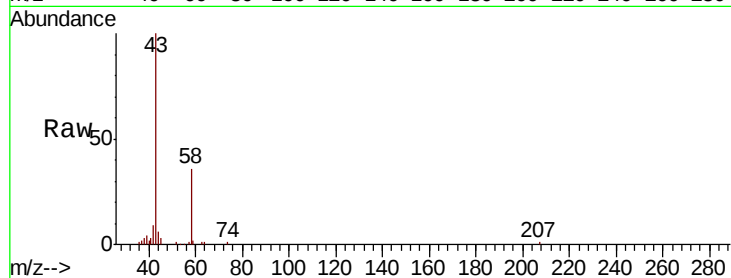
BFQW4

Tot Ion: 43 Resp: 60494

Ion Ratio Lower Upper

43 100

58 39.3 0.0 74.2



#16

Methylene chloride

Concen: 0.497 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

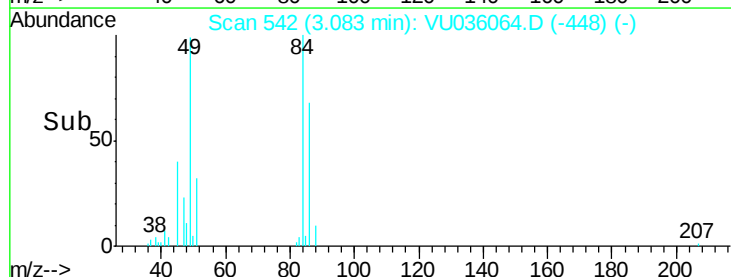
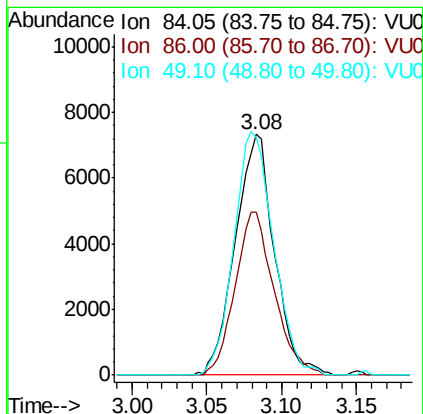
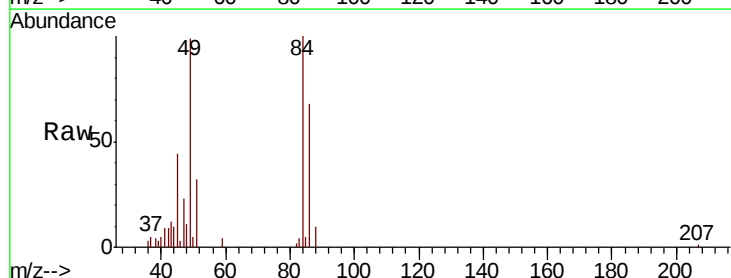
Tgt Ion: 84 Resp: 13372

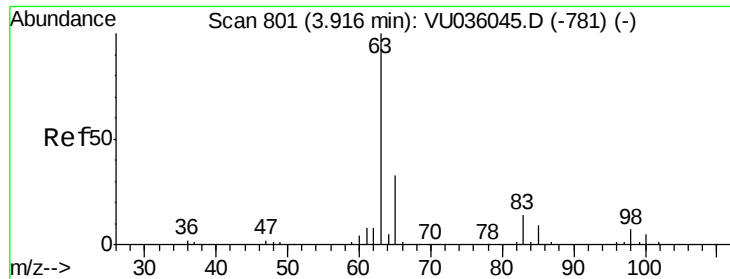
Ion Ratio Lower Upper

84 100

86 67.5 47.5 88.3

49 98.7 76.9 142.9

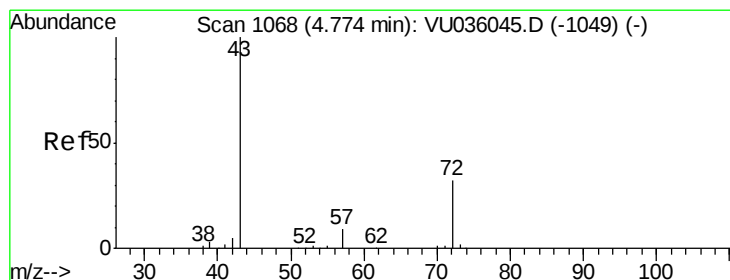
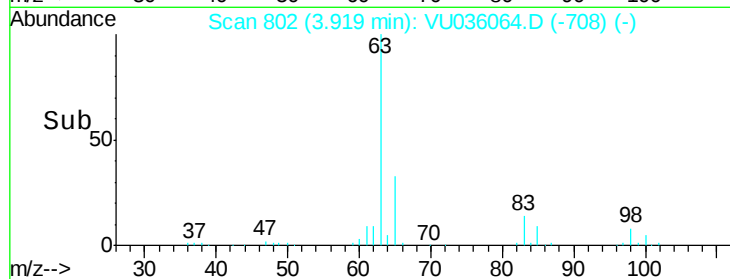
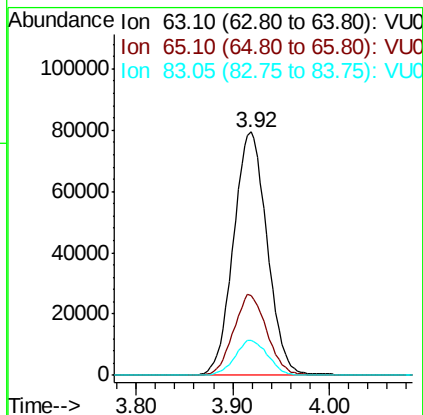
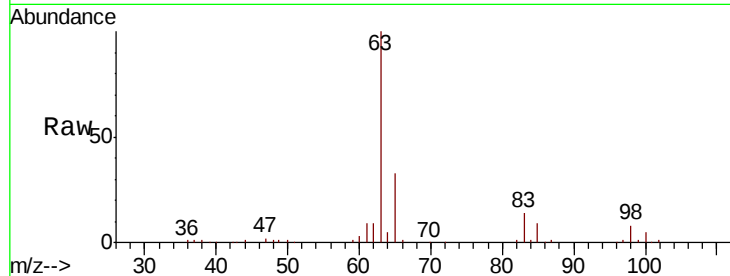




#19
 1,1-Dichloroethane
 Concen: 5.402 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

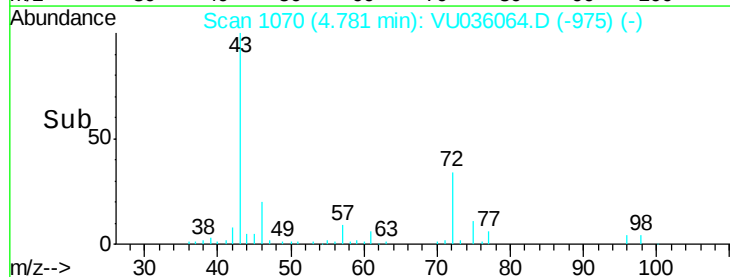
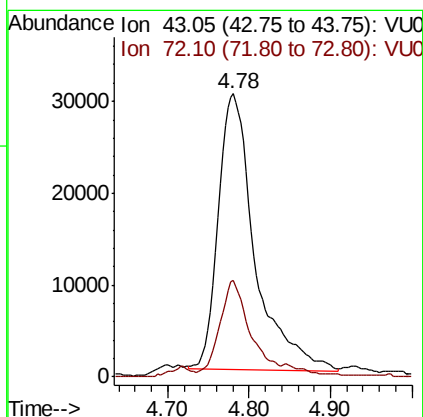
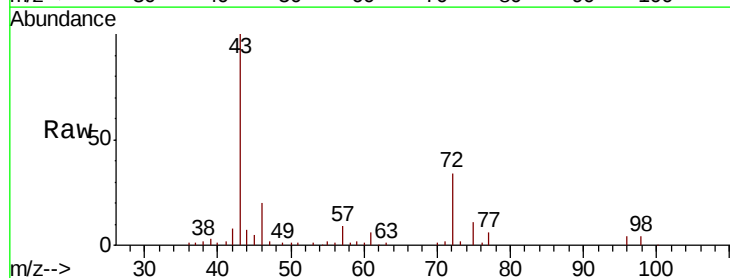
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

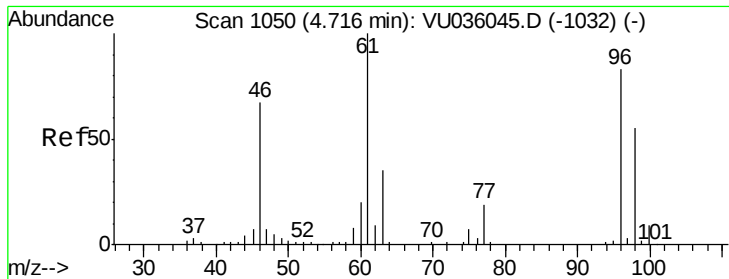
Tot Ion: 63 Resp: 191929
 Ion Ratio Lower Upper
 63 100
 65 33.0 21.8 40.4
 83 14.4 10.1 18.9



#21
 2-Butanone
 Concen: 18.420 ug/L
 RT: 4.78 min Scan# 1070
 Delta R.T. 0.01 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

Tgt Ion: 43 Resp: 94747
 Ion Ratio Lower Upper
 43 100
 72 26.2 15.0 45.0





#22

cis-1,2-Dichloroethene

Concen: 9.670 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

BFQW4

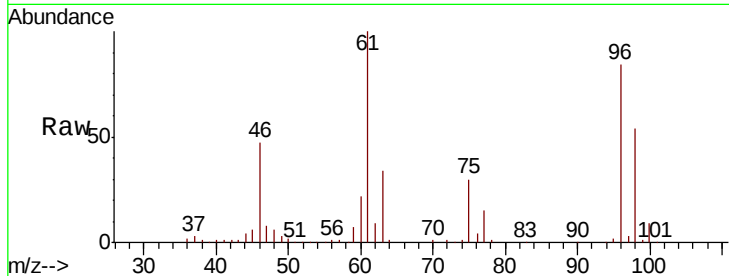
Tot Ion: 96 Resp: 200890

Ion Ratio Lower Upper

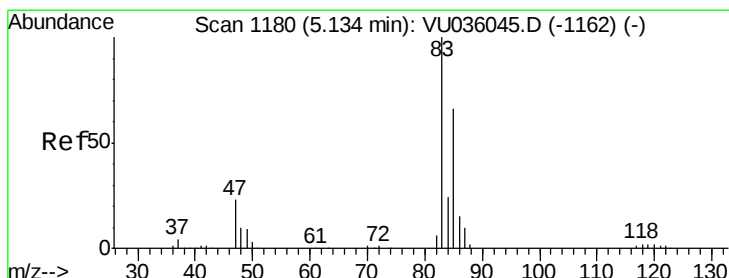
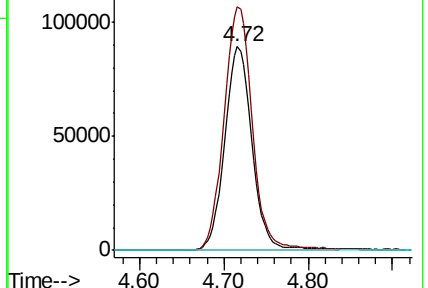
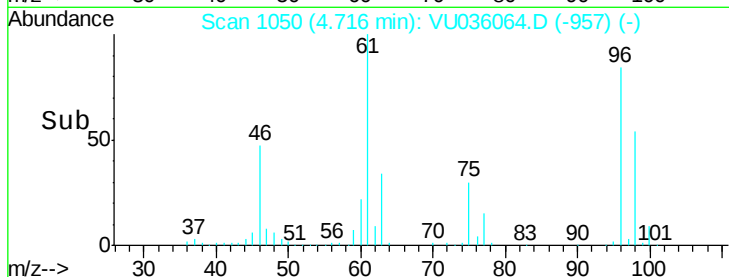
96 100

61 119.7 83.0 154.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036064.D (-957) (-)



#25

Chloroform

Concen: 1.758 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036064.D

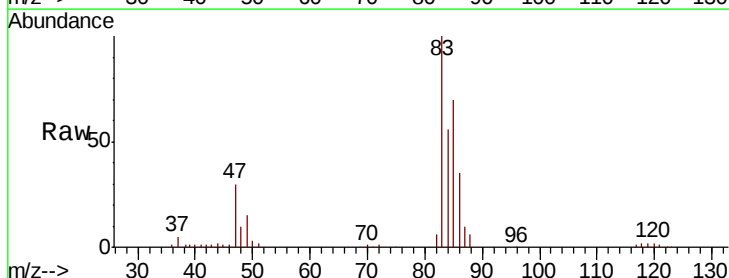
Acq: 09 Dec 2019 22:10

Tgt Ion: 83 Resp: 69583

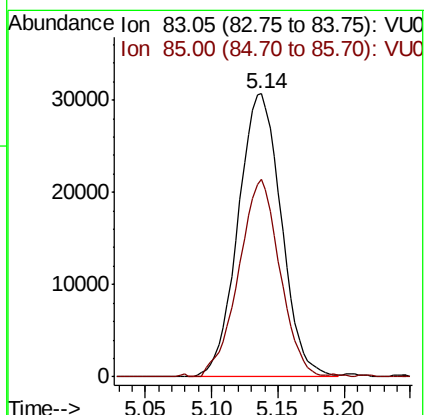
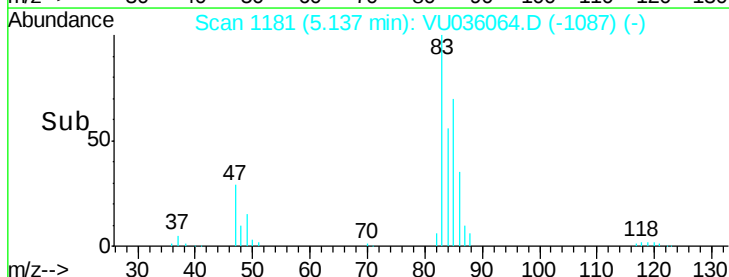
Ion Ratio Lower Upper

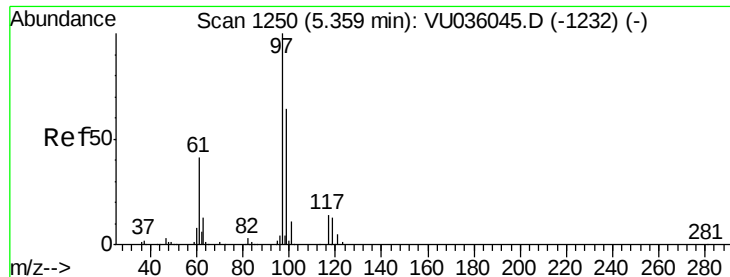
83 100

85 70.0 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU036064.D (-1087) (-)

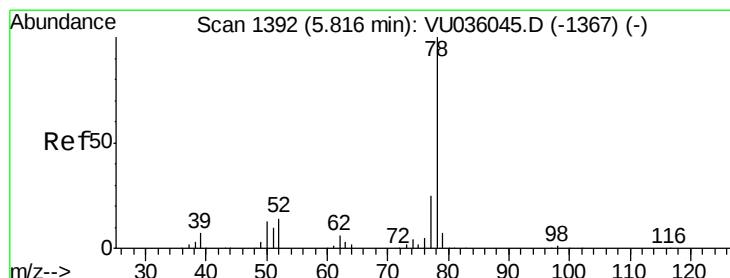
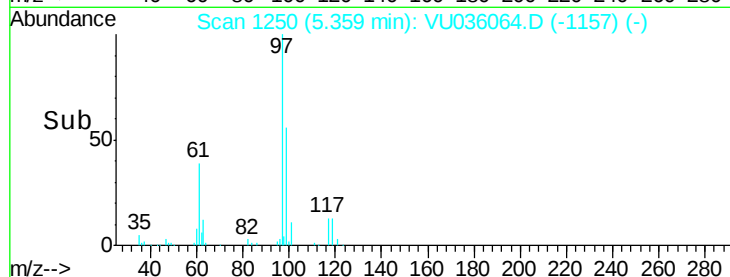
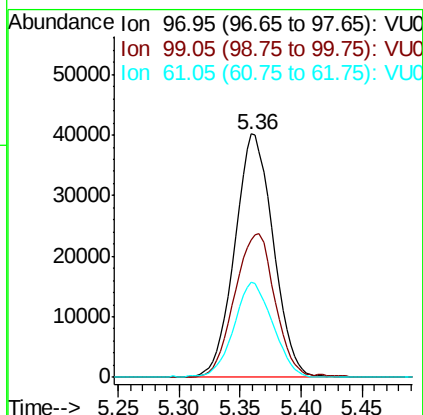
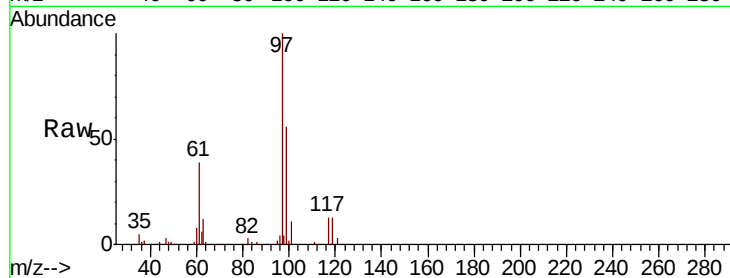




#29
 1,1,1-Trichloroethane
 Concen: 2.786 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

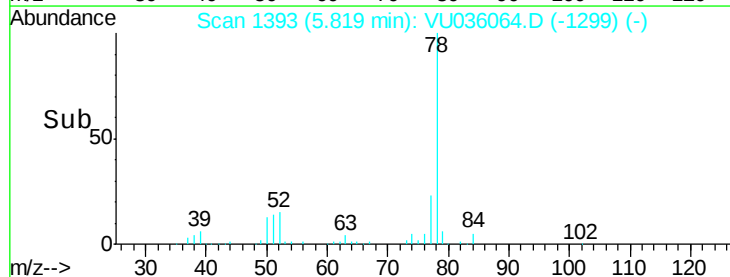
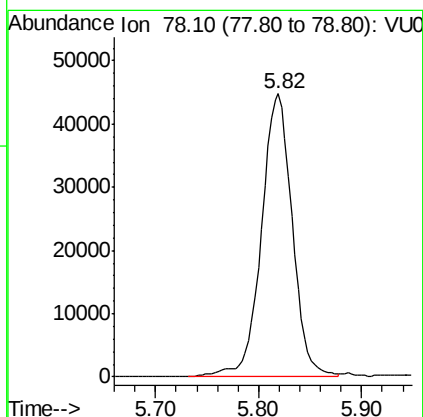
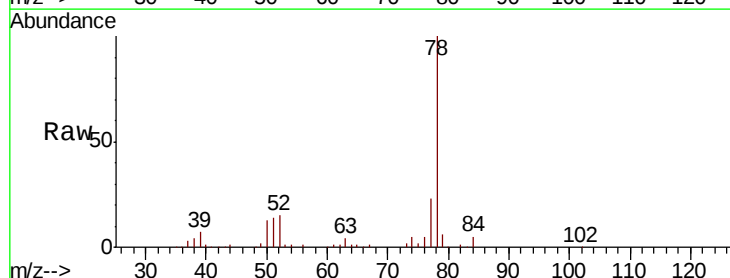
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 ClientSampled :
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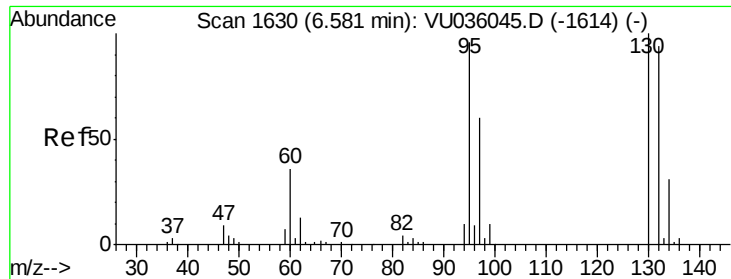
Tot Ion: 97 Resp: 88028
 Ion Ratio Lower Upper
 97 100
 99 61.4 52.2 78.2
 61 39.5 34.7 52.1



#33
 Benzene
 Concen: 1.214 ug/L
 RT: 5.82 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

Tgt Ion: 78 Resp: 92982

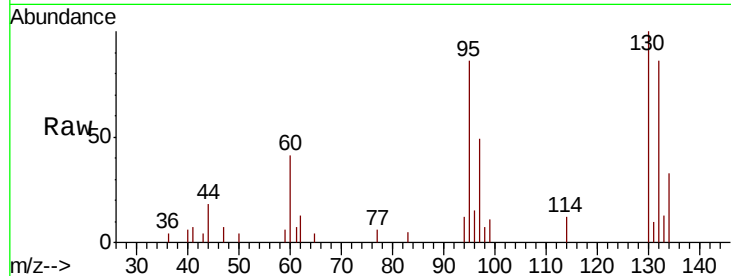




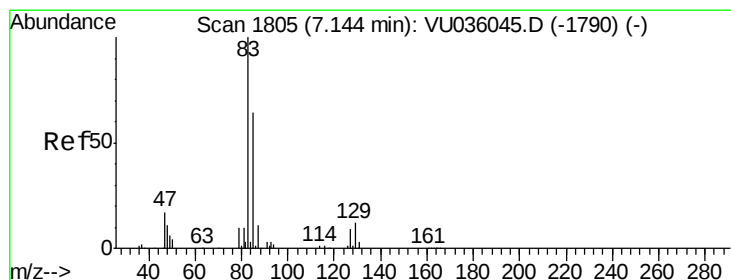
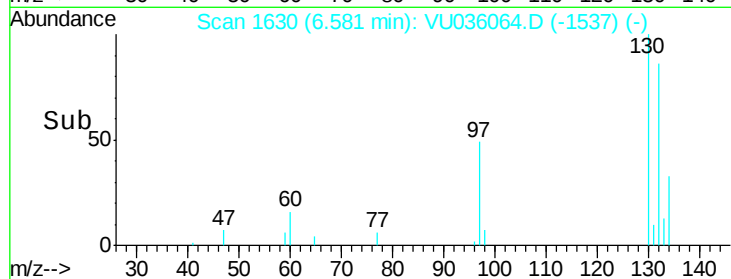
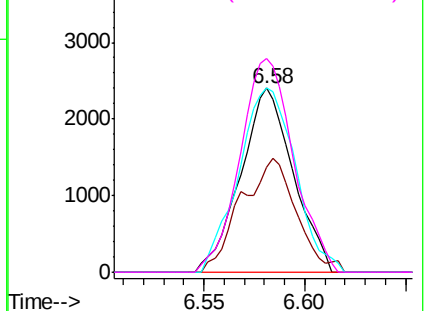
#34
 Trichloroethene
 Concen: 0.215 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

Tot Ion: 95 Resp: 4383
 Ion Ratio Lower Upper
 95 100
 97 57.1 44.4 82.4
 132 99.9 73.4 136.4
 130 116.0 75.9 141.1

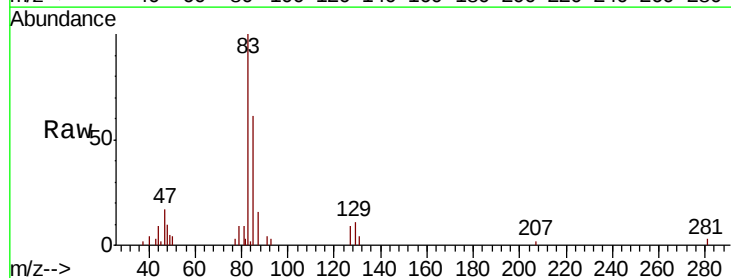


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

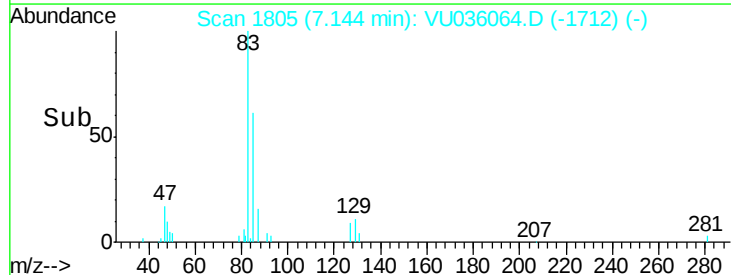
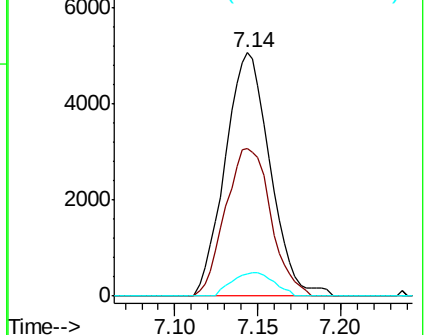


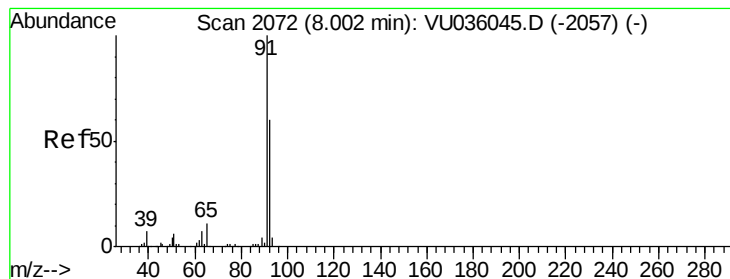
#38
 Bromodichloromethane
 Concen: 0.369 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

Tgt Ion: 83 Resp: 9523
 Ion Ratio Lower Upper
 83 100
 85 60.6 45.2 84.0
 127 9.1 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: 0.422 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

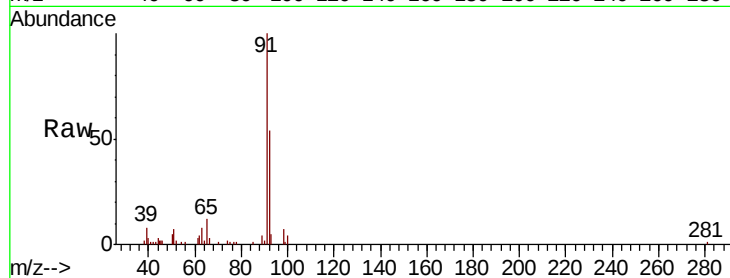
BFQW4

Tot Ion: 91 Resp: 34639

Ion Ratio Lower Upper

91 100

92 54.4 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

20000

15000

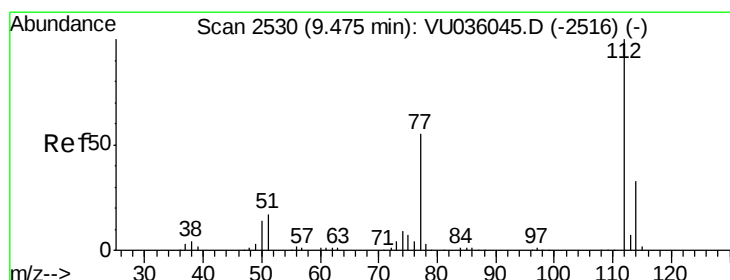
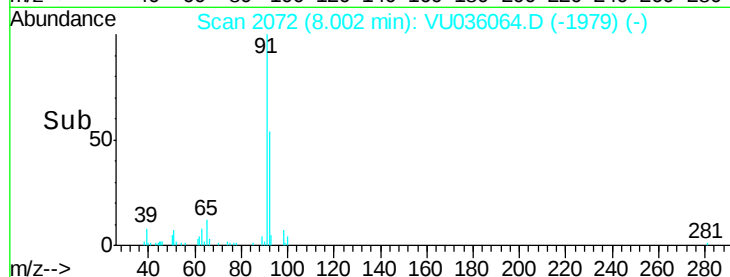
10000

5000

0

Time-->

7.95 8.00 8.05 8.10



#51

Chlorobenzene

Concen: 1.084 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

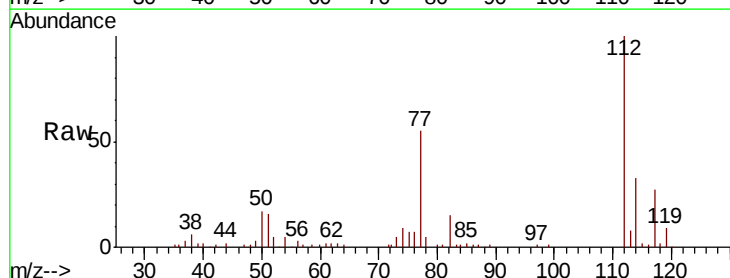
Tgt Ion: 112 Resp: 62094

Ion Ratio Lower Upper

112 100

114 33.2 22.3 41.5

77 54.9 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

40000

30000

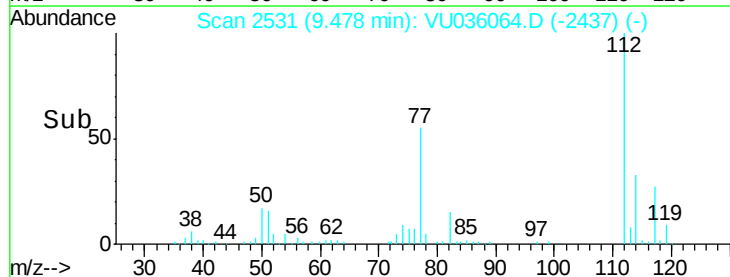
20000

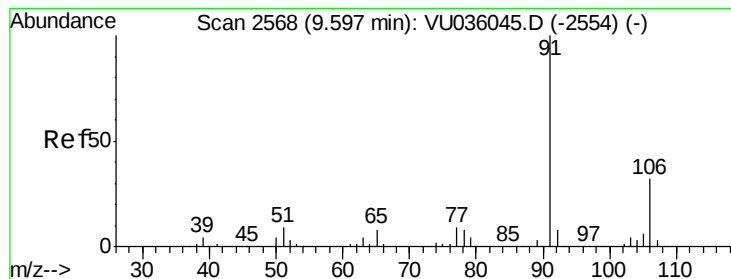
10000

0

Time-->

9.40 9.45 9.50 9.55





#52

Ethylbenzene

Concen: 0.113 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

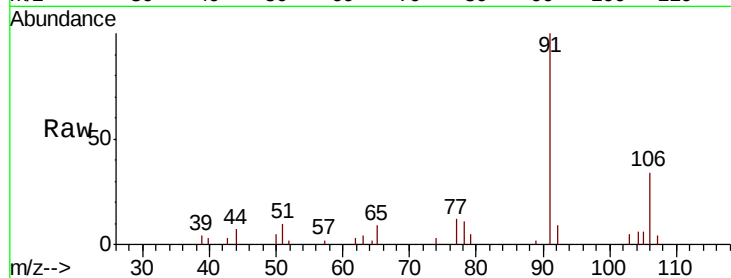
BFQW4

Tot Ion: 91 Resp: 9760

Ion Ratio Lower Upper

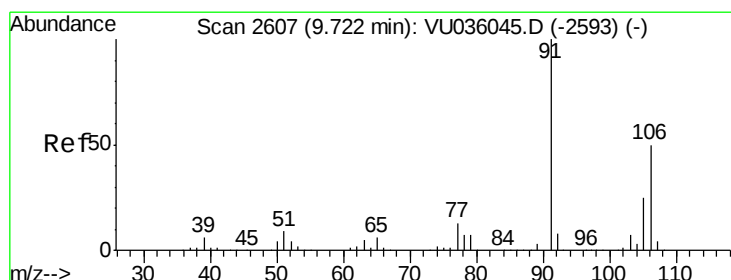
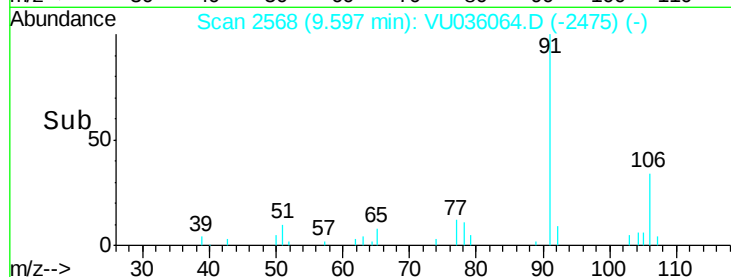
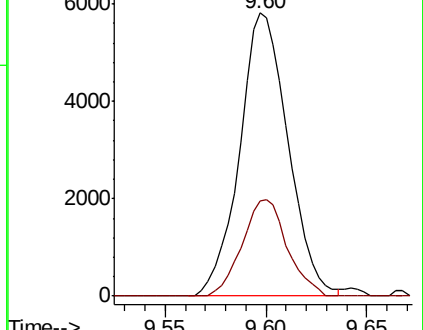
91 100

106 33.6 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036064.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036064.D (-2554) (-)



#53

m,p-Xylene

Concen: 0.244 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036064.D

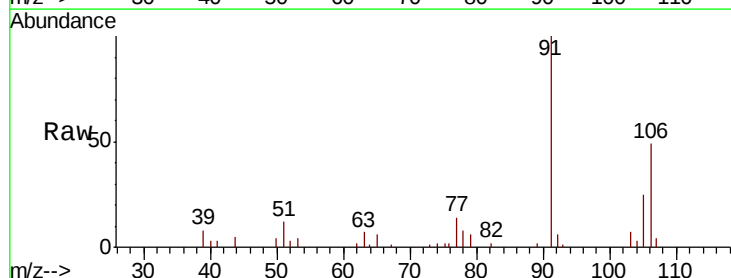
Acq: 09 Dec 2019 22:10

Tgt Ion: 106 Resp: 8374

Ion Ratio Lower Upper

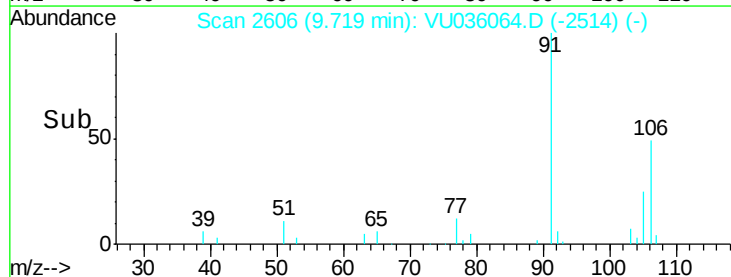
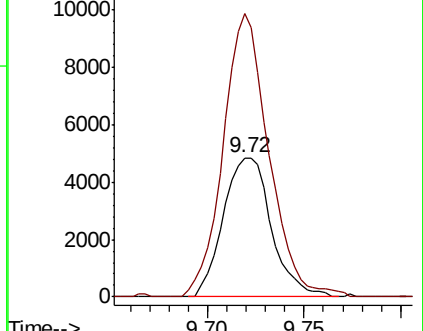
106 100

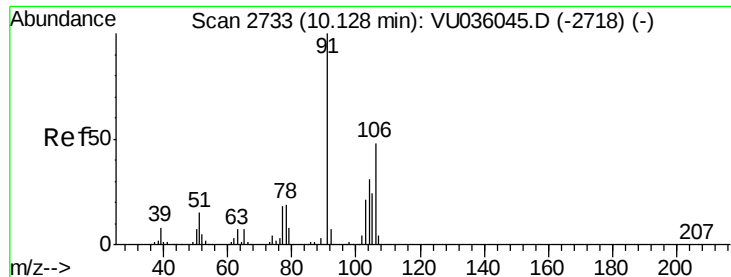
91 203.9 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): VU036064.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU036064.D (-2593) (-)

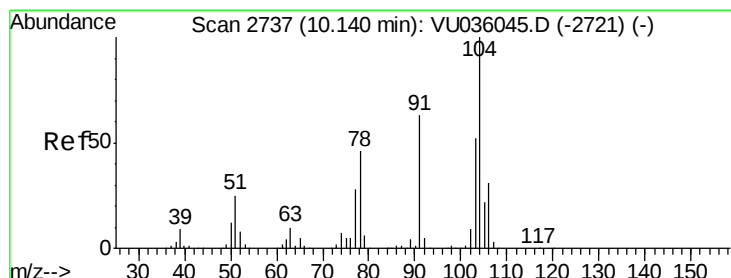
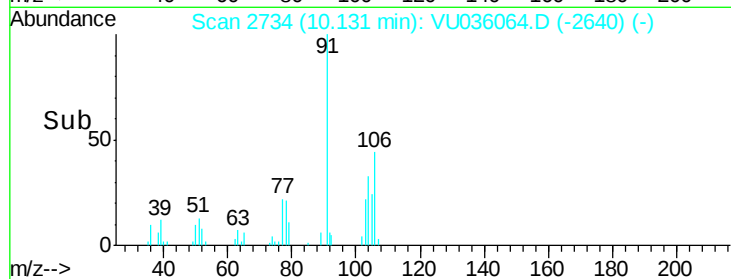
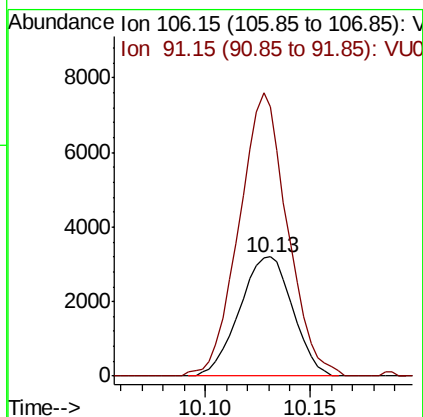
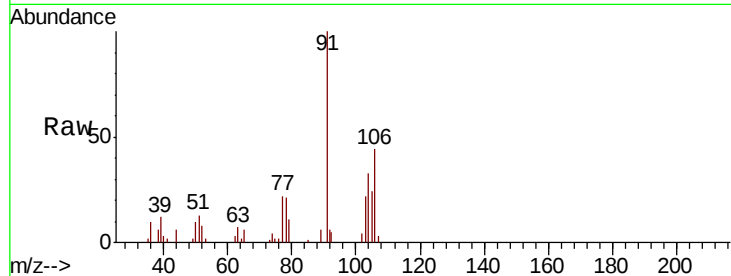




#54
o-Xylene
Concen: 0.174 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU036064.D
Acq: 09 Dec 2019 22:10

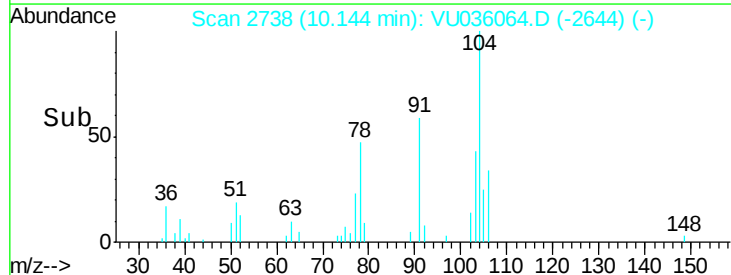
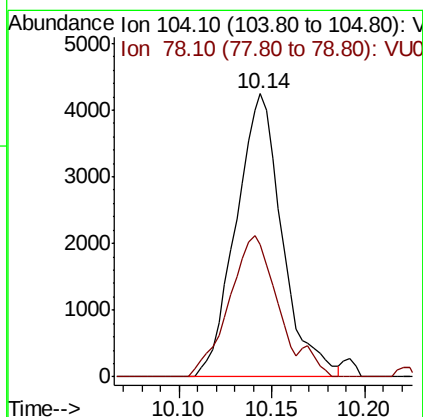
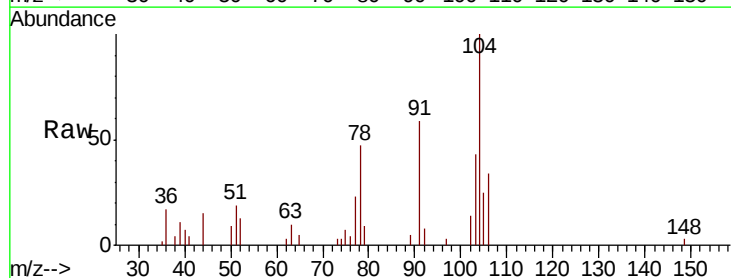
Instrument :
MSVOA_U
ClientSampleId :
BFQW4

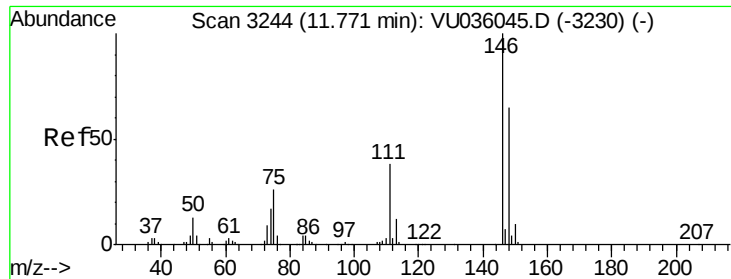
Tot Ion:106 Resp: 5591
Ion Ratio Lower Upper
106 100
91 226.4 140.6 261.2



#55
Styrene
Concen: 0.133 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU036064.D
Acq: 09 Dec 2019 22:10

Tgt Ion:104 Resp: 7337
Ion Ratio Lower Upper
104 100
78 46.6 30.5 56.7





#62

1,3-Dichlorobenzene

Concen: 0.097 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

Instrument :

MSVOA_U

ClientSampleId :

BFQW4

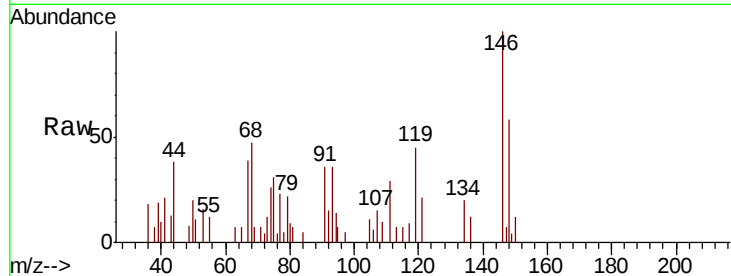
Tot Ion:146 Resp: 3747

Ion Ratio Lower Upper

146 100

111 29.0 26.0 48.2

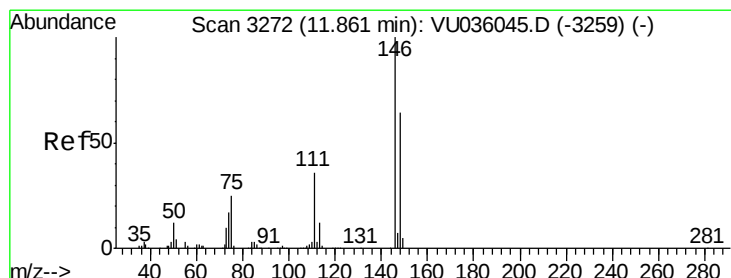
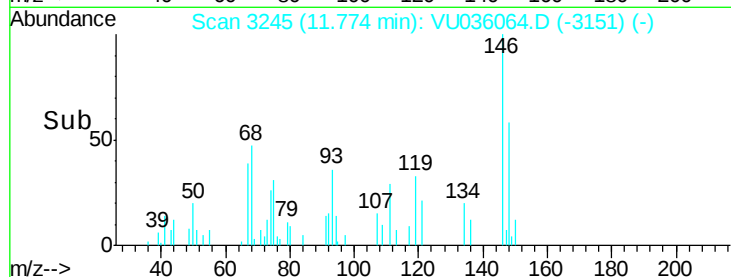
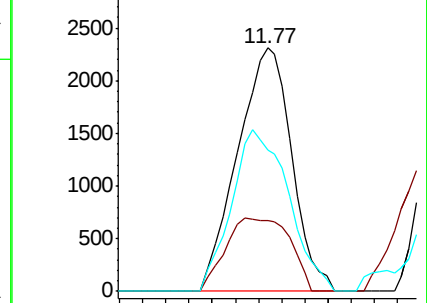
148 58.0 43.7 81.1



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: 0.295 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036064.D

Acq: 09 Dec 2019 22:10

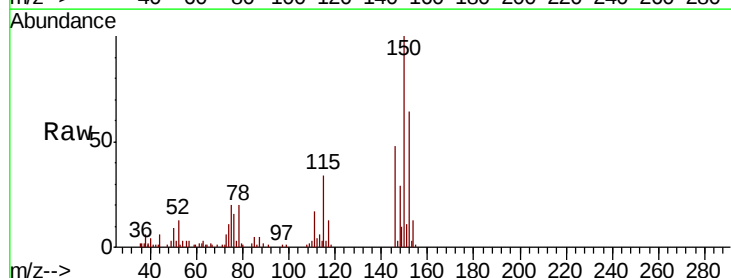
Tgt Ion:146 Resp: 11225

Ion Ratio Lower Upper

146 100

111 35.4 26.2 48.6

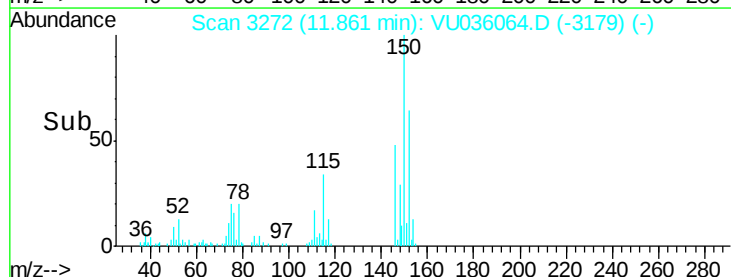
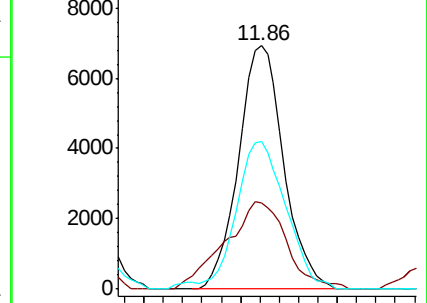
148 60.5 44.9 83.5

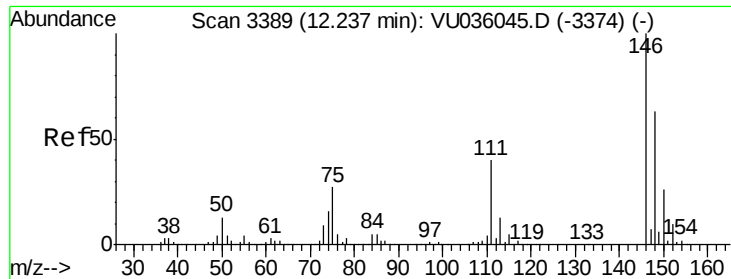


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

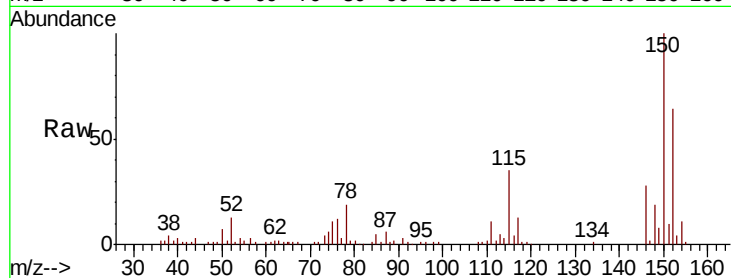




#65
 1,2-Dichlorobenzene
 Concen: 0.294 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036064.D
 Acq: 09 Dec 2019 22:10

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

Tot Ion:146 Resp: 11241
 Ion Ratio Lower Upper
 146 100
 111 40.6 31.3 46.9
 148 68.0 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

