

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
 Data File : VU036506.D
 Acq On : 16 Jan 2020 18:21
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 17 00:49:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 17 00:47:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	555072	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	532506	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	258192	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	163492	45.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.86%
7) Chloroethane-d5	1.93	69	149926	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.26%
11) 1,1-Dichloroethene-d2	2.59	63	326705	47.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.56%
21) 2-Butanone-d5	4.68	46	301146	97.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.33%
24) Chloroform-d	5.11	84	353379	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
26) 1,2-Dichloroethane-d4	5.74	65	229950	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.56%
32) Benzene-d6	5.77	84	664217	47.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.38%
36) 1,2-Dichloropropane-d6	6.73	67	218734	48.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.58%
41) Toluene-d8	7.93	98	623116	47.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.62%
43) trans-1,3-Dichloropropene-	8.21	79	117824	48.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.58%
47) 2-Hexanone-d5	8.67	63	232334	100.10	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.10%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	343699	50.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.90%
64) 1,2-Dichlorobenzene-d4	12.21	152	247276	48.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	237481	46.167	ug/L	99
3) Chloromethane	1.54	50	218734	47.222	ug/L	98
5) Vinyl chloride	1.62	62	221890	48.262	ug/L	99
6) Bromomethane	1.87	94	134926	48.260	ug/L	96
8) Chloroethane	1.95	64	125693	46.215	ug/L	98
9) Trichlorofluoromethane	2.16	101	299493	47.827	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	158725	47.941	ug/L	98
12) 1,1-Dichloroethene	2.61	96	161150	49.121	ug/L	96
13) Acetone	2.66	43	276071	82.444	ug/L	99
14) Carbon disulfide	2.82	76	499605	47.085	ug/L	100
15) Methyl Acetate	2.99	43	214498	47.900	ug/L	99
16) Methylene chloride	3.08	84	191991	47.566	ug/L	96
17) trans-1,2-Dichloroethene	3.39	96	177875	49.454	ug/L	96
18) Methyl tert-butyl Ether	3.41	73	598535	48.831	ug/L	99
19) 1,1-Dichloroethane	3.92	63	329689	48.553	ug/L	99
20) cis-1,2-Dichloroethene	4.72	96	207643	50.352	ug/L	97
22) 2-Butanone	4.76	43	350409	92.211	ug/L	98

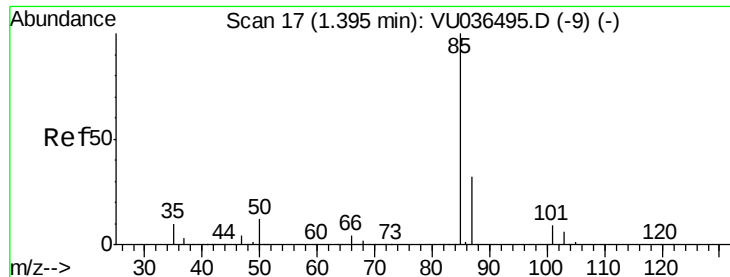
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
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 Quant Title : VOC Analysis
 QLast Update : Fri Jan 17 00:47:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	98203	49.293	ug/L	97
25) Chloroform	5.13	83	355290	49.062	ug/L	99
27) 1,2-Dichloroethane	5.84	62	283463	49.422	ug/L	97
29) Cyclohexane	5.43	56	301637	47.228	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	310274	49.060	ug/L	98
31) Carbon tetrachloride	5.56	117	273249	50.411	ug/L	99
33) Benzene	5.82	78	750403	49.042	ug/L	100
34) Trichloroethene	6.58	95	205137	49.649	ug/L	99
35) Methylcyclohexane	6.80	83	309658	48.679	ug/L	99
37) 1,2-Dichloropropane	6.83	63	195344	48.170	ug/L	100
38) Bromodichloromethane	7.14	83	268731	48.150	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	317301	48.330	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	602112	92.294	ug/L	98
42) Toluene	8.00	91	829129	49.889	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	303309	49.873	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	196037	50.573	ug/L	98
46) Tetrachloroethene	8.58	164	143220	51.532	ug/L	99
48) 2-Hexanone	8.72	43	491607	95.278	ug/L	98
49) Dibromochloromethane	8.84	129	216136	50.127	ug/L	99
50) 1,2-Dibromoethane	8.95	107	217698	49.544	ug/L	98
51) Chlorobenzene	9.47	112	529501	50.668	ug/L	99
52) Ethylbenzene	9.60	91	936631	50.458	ug/L	97
53) m,p-Xylene	9.72	106	349017	50.280	ug/L	99
54) o-xylene	10.12	106	352198	50.824	ug/L	96
55) Styrene	10.14	104	586605	52.194	ug/L	99
56) Isopropylbenzene	10.51	105	903996	50.827	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	338795	50.260	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	275406	49.247	ug/L	100
61) Bromoform	10.32	173	155996	44.365	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	401717	49.411	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	401774	49.181	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	398045	49.635	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	84598	47.971	ug/L	95
67) 1,3,5-Trichlorobenzene	13.24	180	268225	54.558	ug/L	98
68) 1,2,4-trichlorobenzene	13.86	180	229028	63.214	ug/L	99
69) Naphthalene	14.10	128	851113	69.521	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	233527	62.131	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 46.167 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

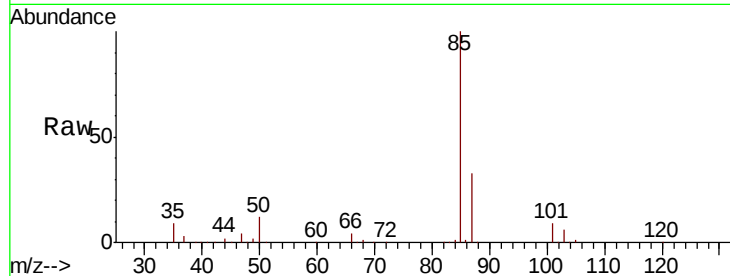
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 237481

Ion Ratio Lower Upper

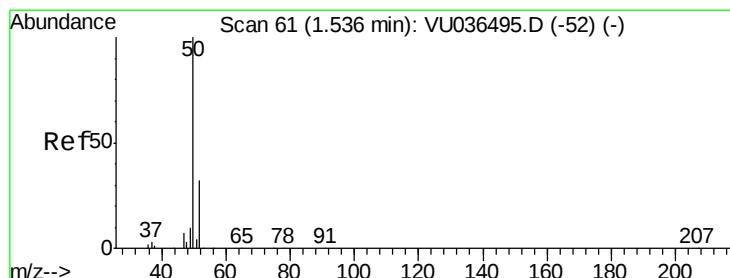
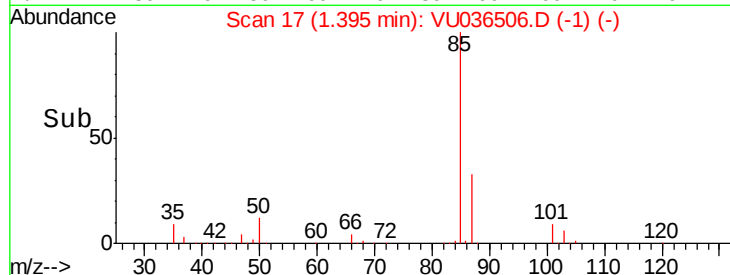
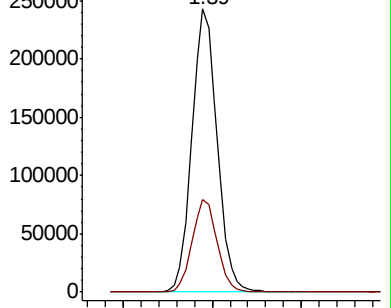
85 100

87 32.7 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036495.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036495.D (-9) (-)



#3

Chloromethane

Concen: 47.222 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036506.D

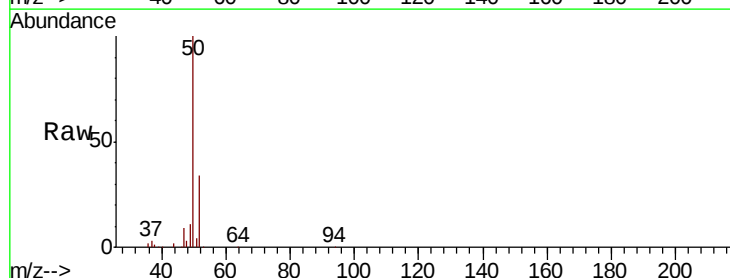
Acq: 16 Jan 2020 18:21

Tgt Ion: 50 Resp: 218734

Ion Ratio Lower Upper

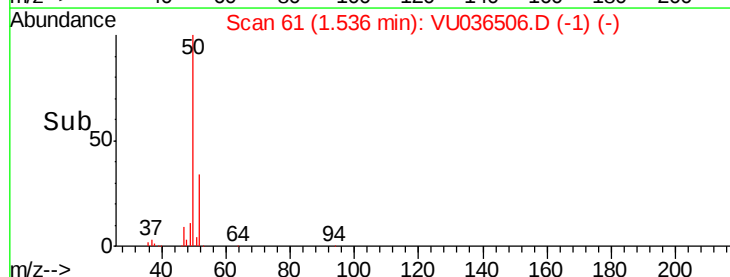
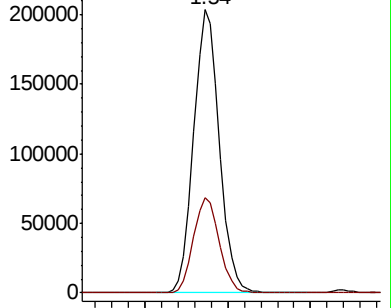
50 100

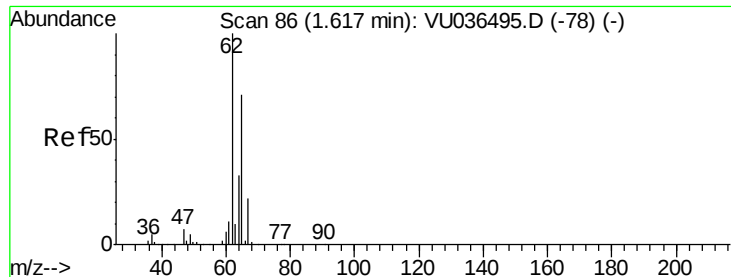
52 33.9 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU036495.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU036495.D (-52) (-)





#5

Vinyl chloride

Concen: 48.262 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

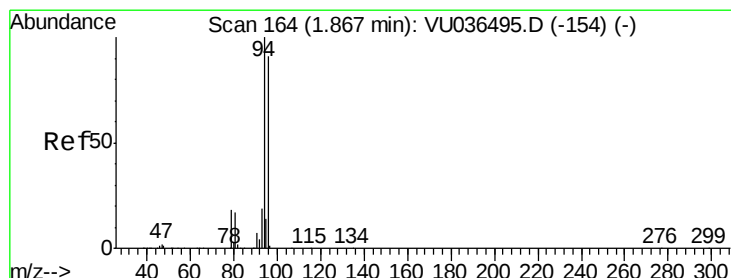
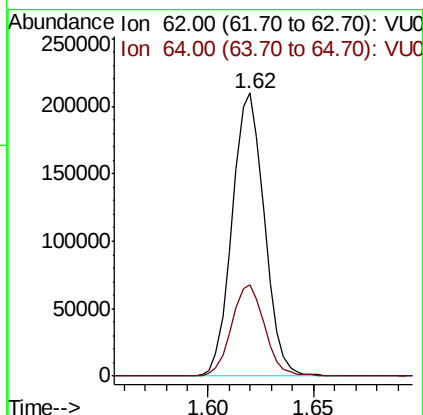
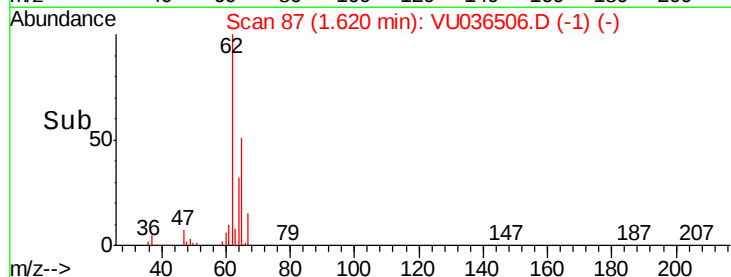
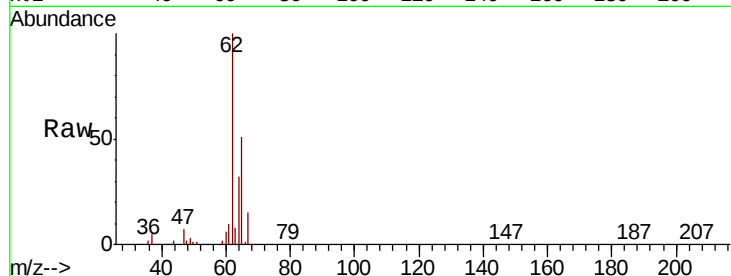
ClientSampleId :

Tot Ion: 62 Resp: 221890

Ion Ratio Lower Upper

62 100

64 32.4 23.0 42.8



#6

Bromomethane

Concen: 48.260 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036506.D

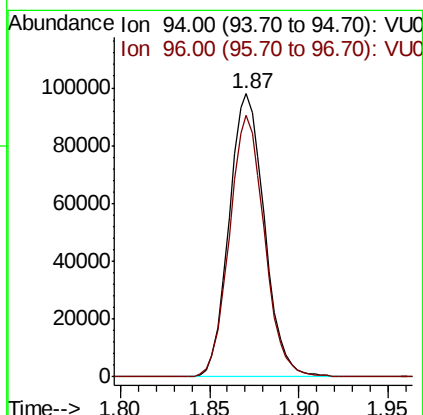
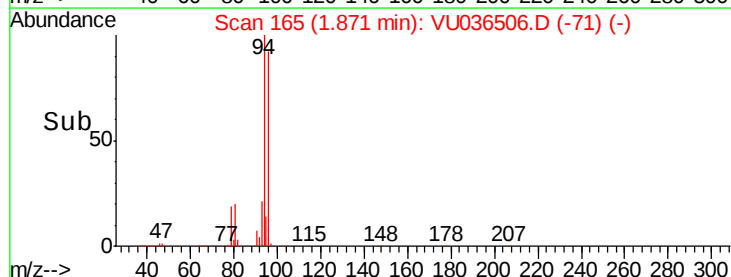
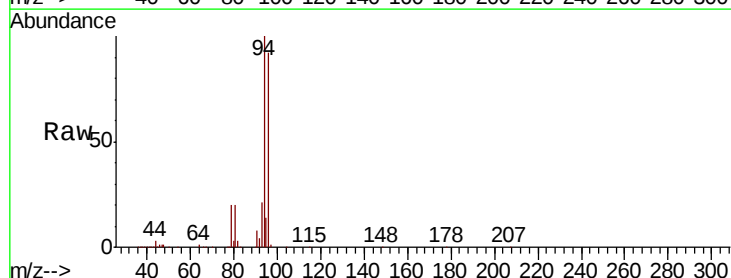
Acq: 16 Jan 2020 18:21

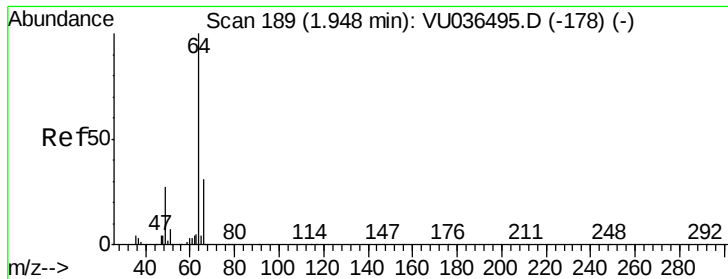
Tgt Ion: 94 Resp: 134926

Ion Ratio Lower Upper

94 100

96 92.2 67.1 124.7





#8

Chloroethane

Concen: 46.215 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

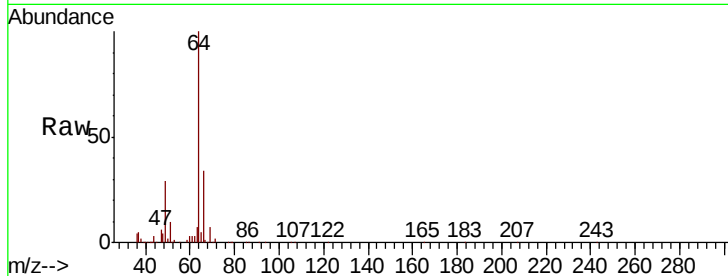
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 125693

Ion Ratio Lower Upper

64 100

66 34.4 23.1 42.9



Abundance Ion 64.00 (63.70 to 64.70): VU036495.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU036495.D (-178) (-)

1.95

100000

80000

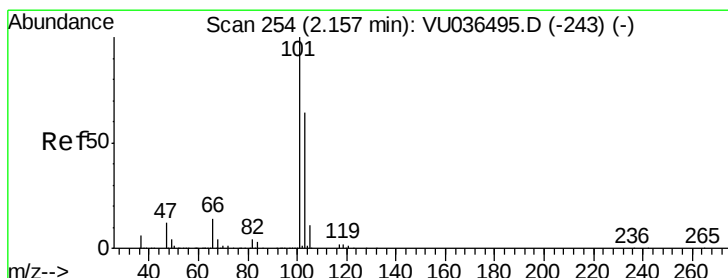
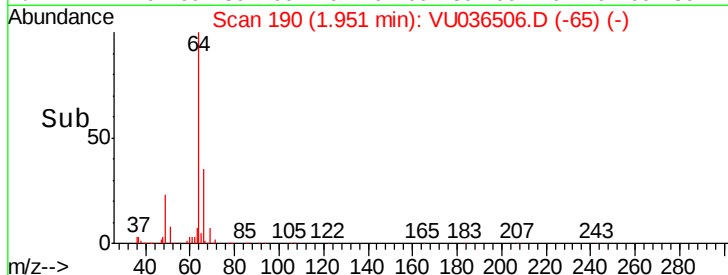
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 47.827 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036506.D

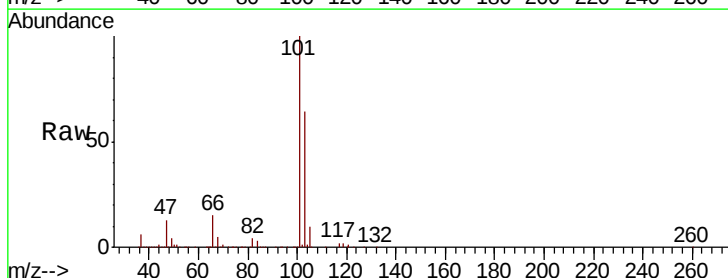
Acq: 16 Jan 2020 18:21

Tgt Ion: 101 Resp: 299493

Ion Ratio Lower Upper

101 100

103 64.4 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU036495.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU036495.D (-243) (-)

2.16

200000

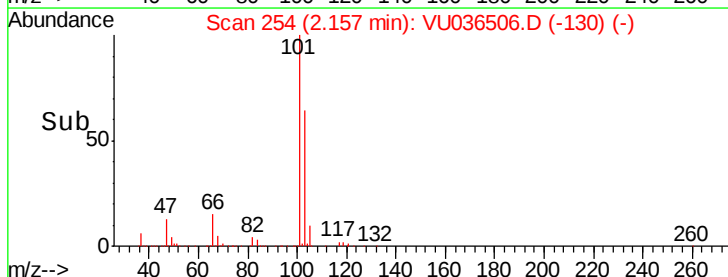
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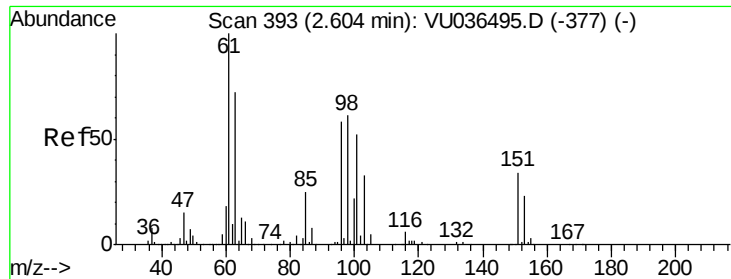
100000

50000

0

Time-->





#10

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

Concen: 47.941 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

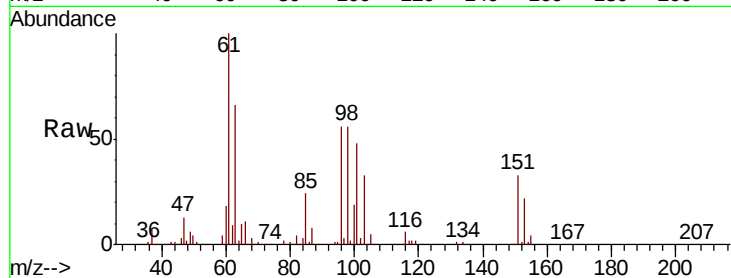
Tot Ion:101 Resp: 158725

Ion Ratio Lower Upper

101 100

85 46.9 36.7 55.1

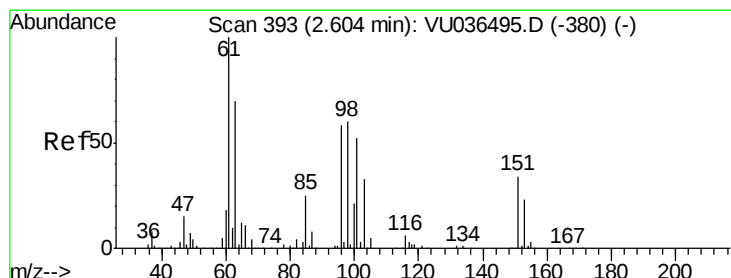
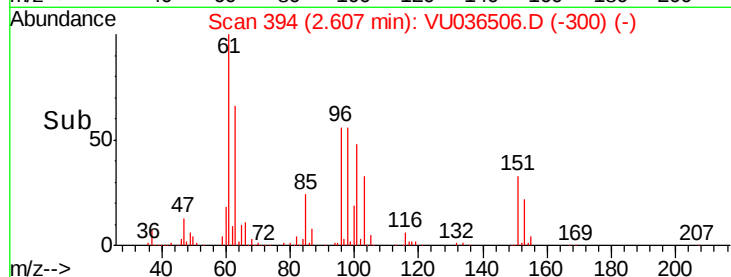
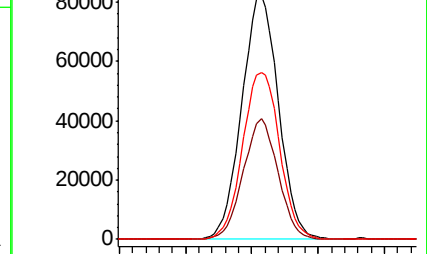
151 69.1 53.3 79.9



Abundance Ion 101.00 (100.70 to 101.70): VU036495.D (-377) (-)

Ion 85.00 (84.70 to 85.70): VU036495.D (-377) (-)

Ion 151.00 (150.70 to 151.70): VU036495.D (-377) (-)



#12

1,1-Dichloroethene

Concen: 49.121 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

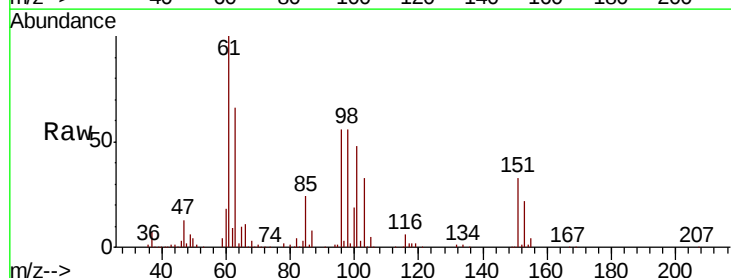
Tgt Ion: 96 Resp: 161150

Ion Ratio Lower Upper

96 100

61 177.7 128.2 238.2

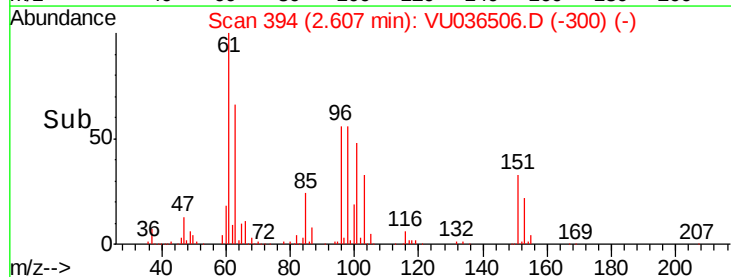
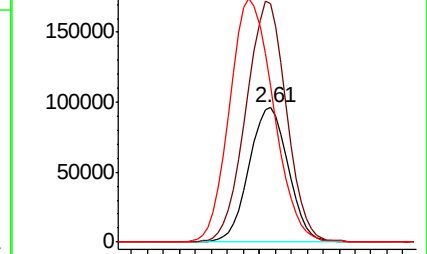
63 116.4 79.1 146.9

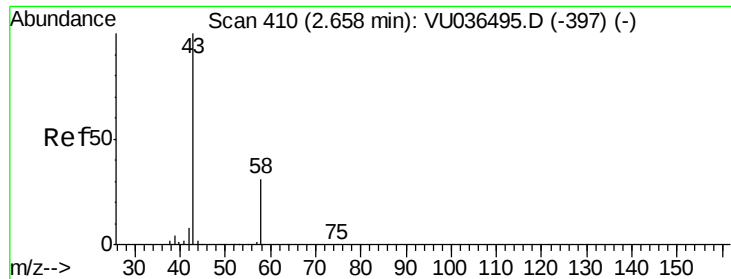


Abundance Ion 96.00 (95.70 to 96.70): VU036495.D (-380) (-)

Ion 61.00 (60.70 to 61.70): VU036495.D (-380) (-)

Ion 63.00 (62.70 to 63.70): VU036495.D (-380) (-)





#13

Acetone

Concen: 82.444 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

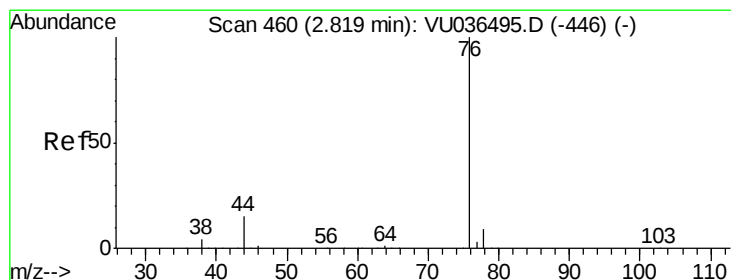
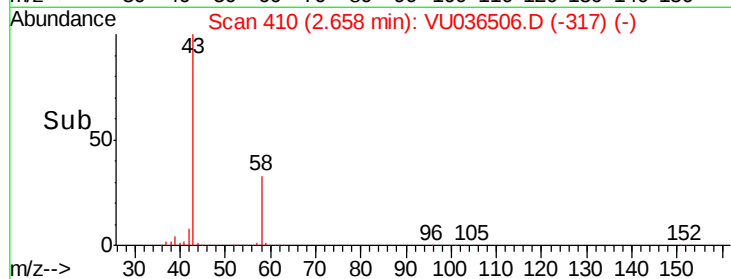
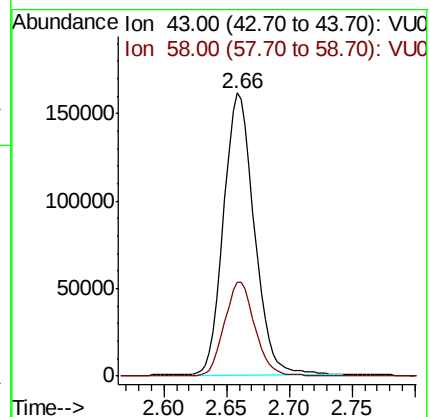
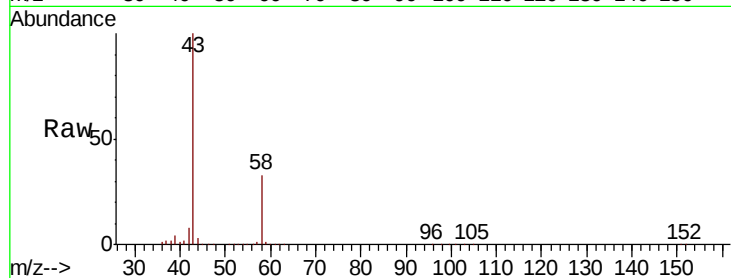
ClientSampleId :

Tot Ion: 43 Resp: 276071

Ion Ratio Lower Upper

43 100

58 33.3 0.0 65.0



#14

Carbon disulfide

Concen: 47.085 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036506.D

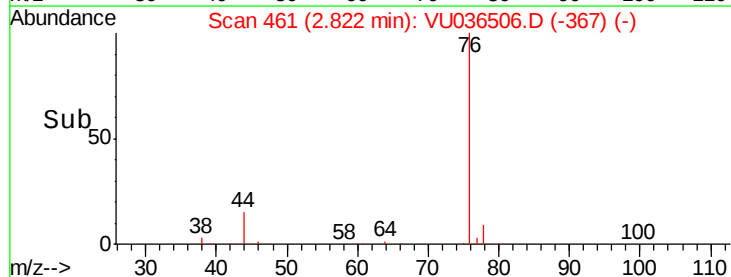
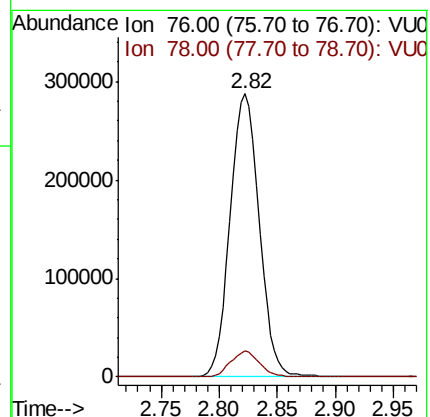
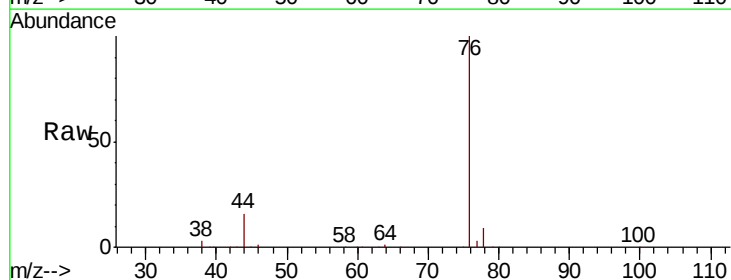
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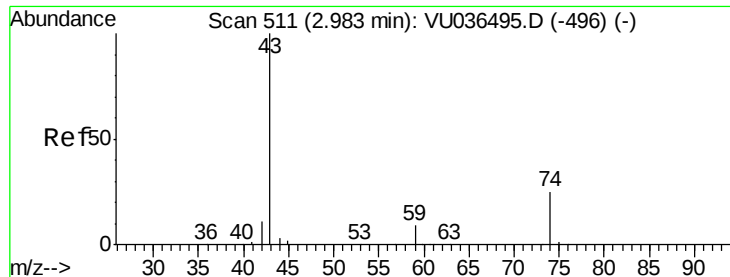
Tgt Ion: 76 Resp: 499605

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 47.900 ug/L

RT: 2.99 min Scan# 512

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

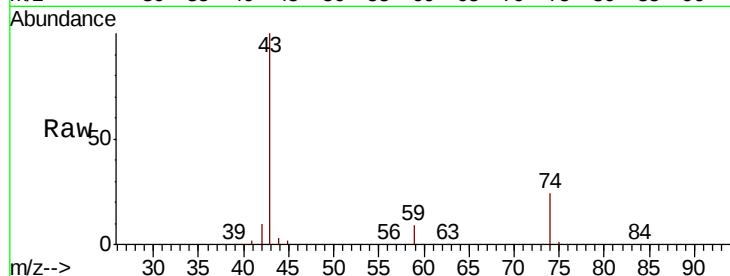
ClientSampleId :

Tot Ion: 43 Resp: 214498

Ion Ratio Lower Upper

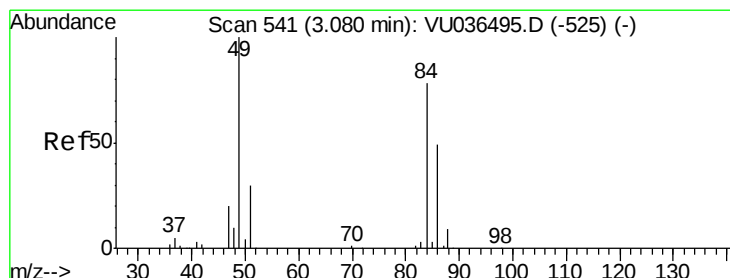
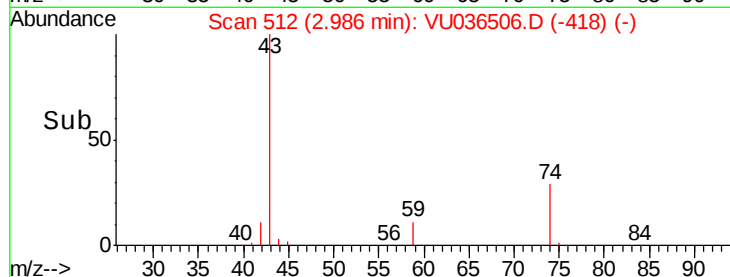
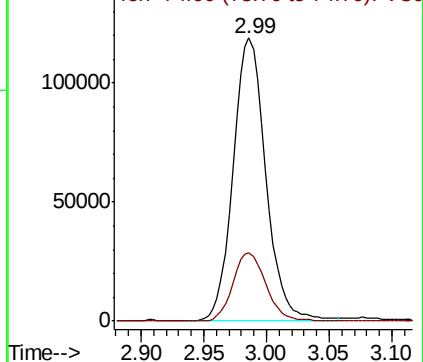
43 100

74 24.4 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VU036495.D (-496) (-)

Ion 74.00 (73.70 to 74.70): VU036495.D (-496) (-)



#16

Methylene chloride

Concen: 47.566 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

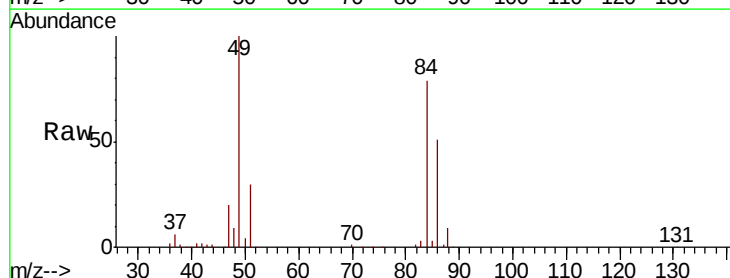
Tgt Ion: 84 Resp: 191991

Ion Ratio Lower Upper

84 100

86 64.0 46.4 86.2

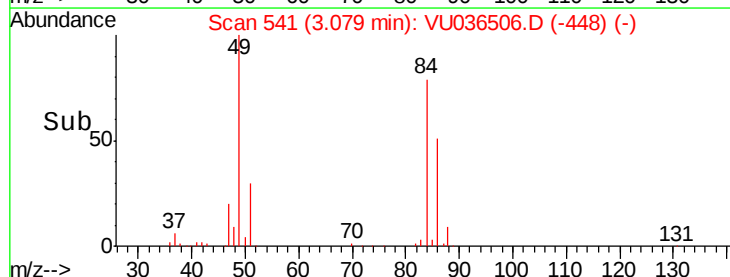
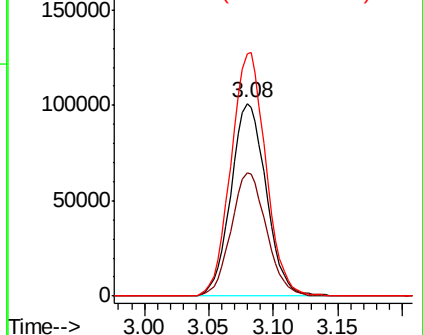
49 126.0 84.5 156.9

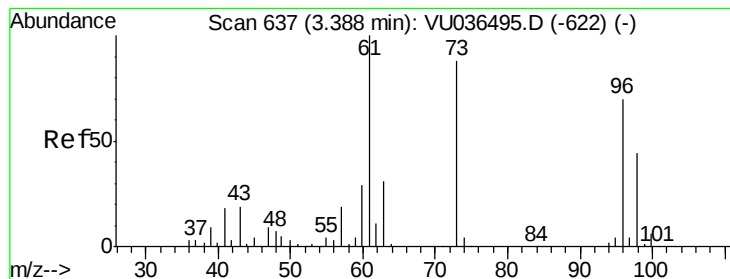


Abundance Ion 84.00 (83.70 to 84.70): VU036495.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU036495.D (-525) (-)

Ion 49.00 (48.70 to 49.70): VU036495.D (-525) (-)





#17

trans-1,2-Dichloroethene

Concen: 49.454 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

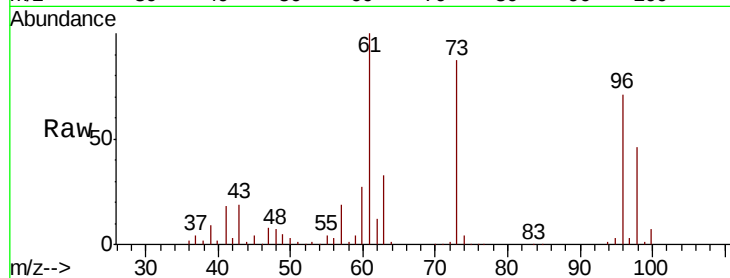
Tot Ion: 96 Resp: 177875

Ion Ratio Lower Upper

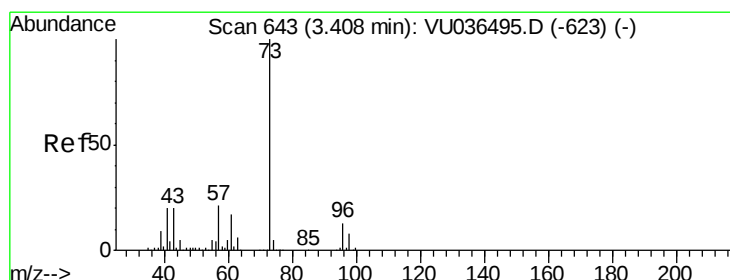
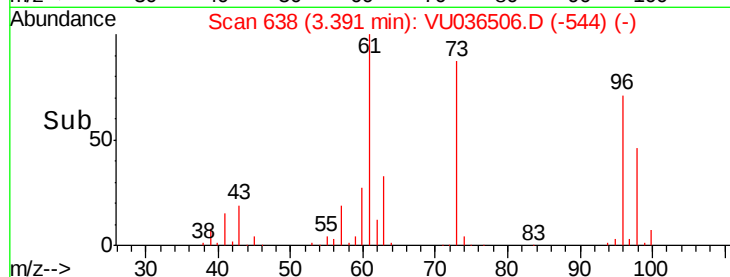
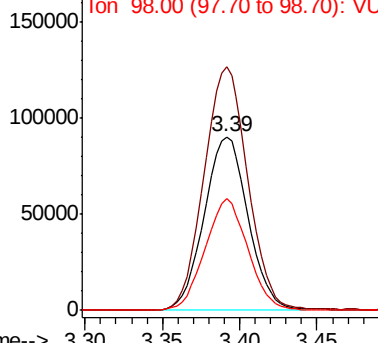
96 100

61 140.1 102.8 191.0

98 64.4 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 48.831 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

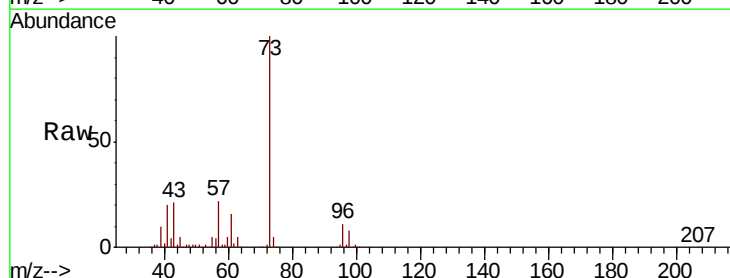
Tgt Ion: 73 Resp: 598535

Ion Ratio Lower Upper

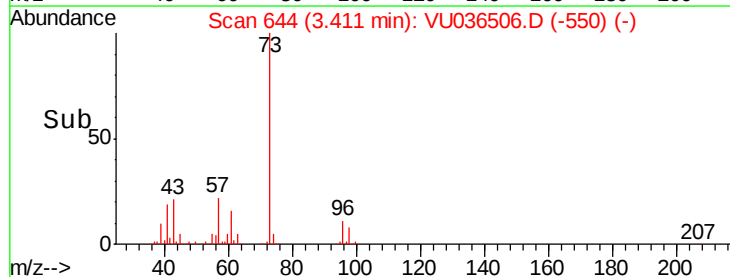
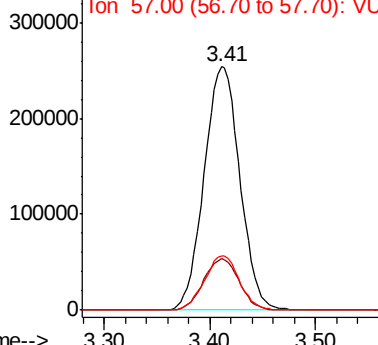
73 100

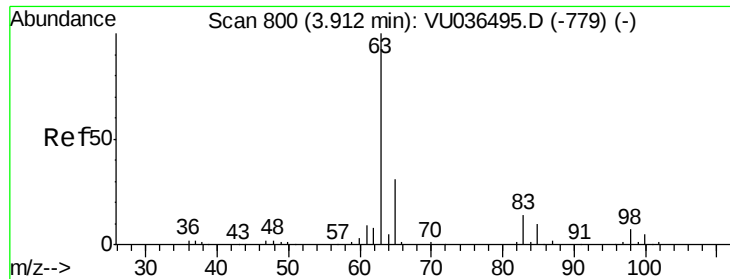
43 20.9 16.6 25.0

57 21.9 17.0 25.6



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

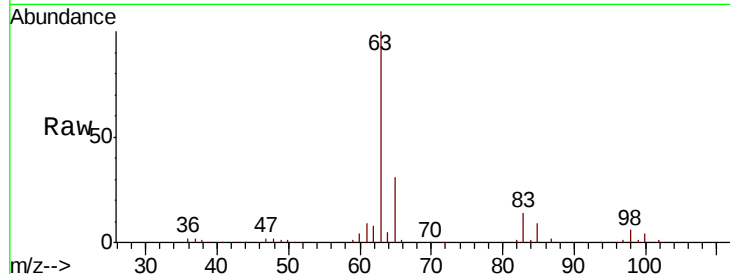




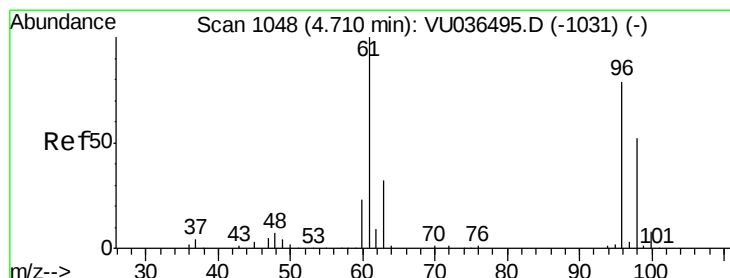
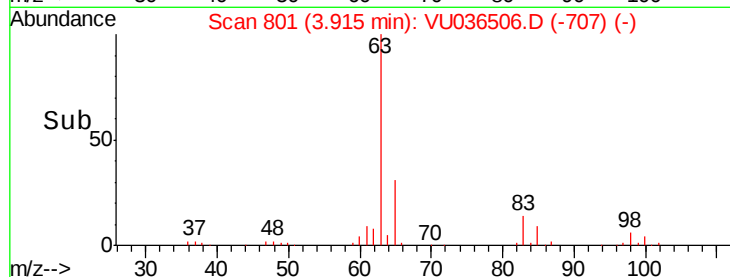
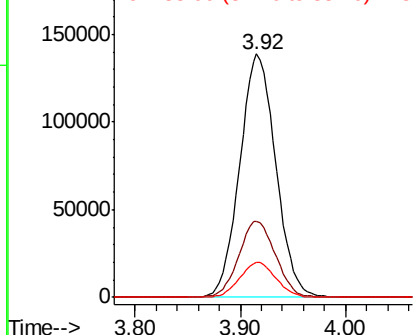
#19
 1,1-Dichloroethane
 Concen: 48.553 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 329689
 Ion Ratio Lower Upper
 63 100
 65 31.4 21.8 40.4
 83 14.5 9.4 17.6

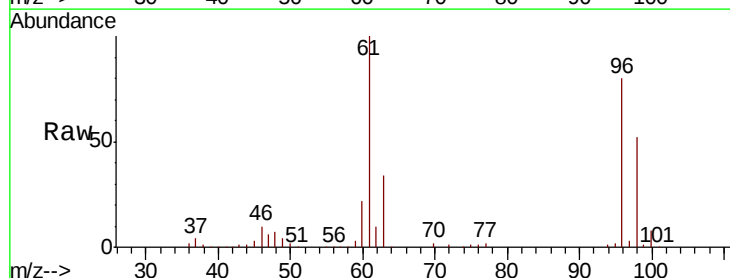


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

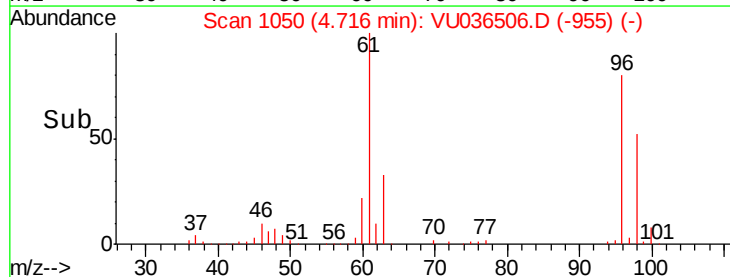
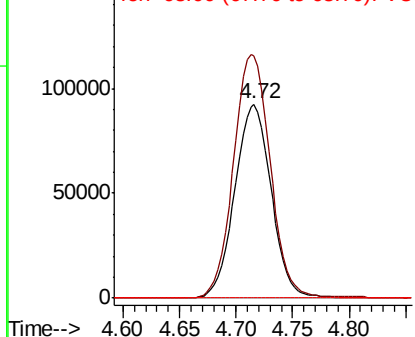


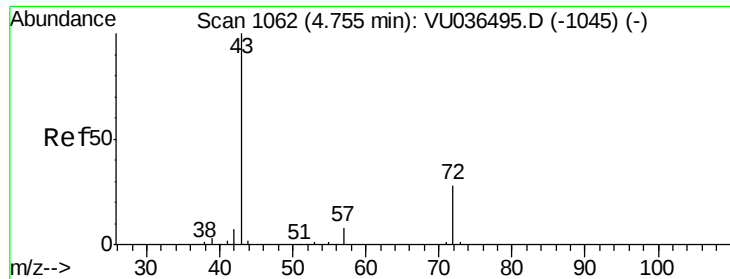
#20
 cis-1,2-Dichloroethene
 Concen: 50.352 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

Tgt Ion: 96 Resp: 207643
 Ion Ratio Lower Upper
 96 100
 61 125.0 89.5 166.3
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 92.211 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

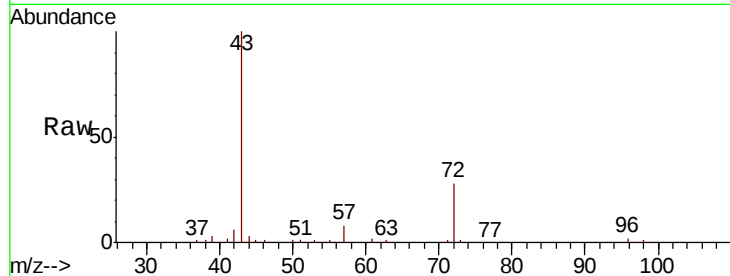
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 350409

Ion Ratio Lower Upper

43 100

72 27.1 14.1 42.4



Abundance Ion 43.00 (42.70 to 43.70): VU036495.D (-1045) (-)

Ion 72.00 (71.70 to 72.70): VU036495.D (-1045) (-)

4.76

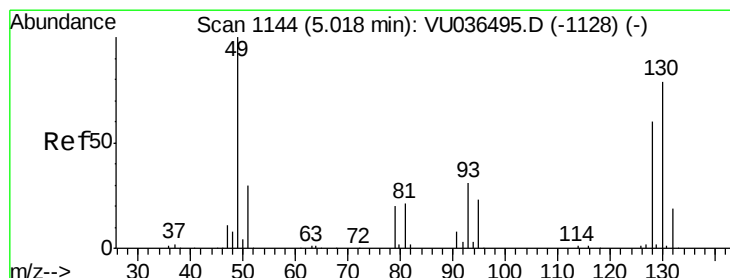
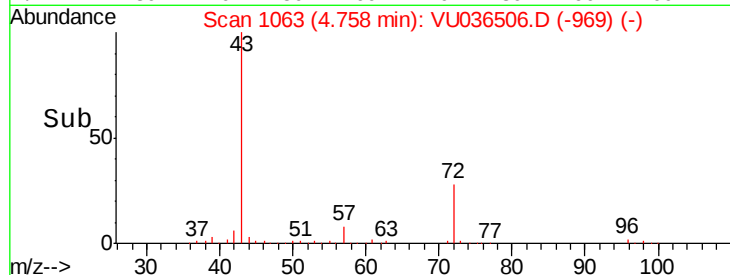
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 49.293 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Tgt Ion:128 Resp: 98203

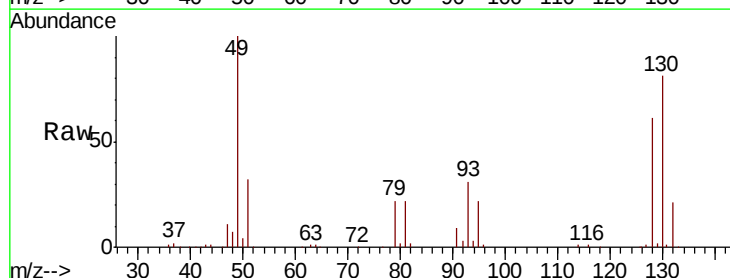
Ion Ratio Lower Upper

128 100

49 163.1 118.9 220.7

130 132.7 91.3 169.5

51 52.8 42.6 63.8



Abundance Ion 128.00 (127.70 to 128.70): VU036495.D (-1128) (-)

Ion 49.00 (48.70 to 49.70): VU036495.D (-1128) (-)

Ion 130.00 (129.70 to 130.70): VU036495.D (-1128) (-)

Ion 51.00 (50.70 to 51.70): VU036495.D (-1128) (-)

100000

80000

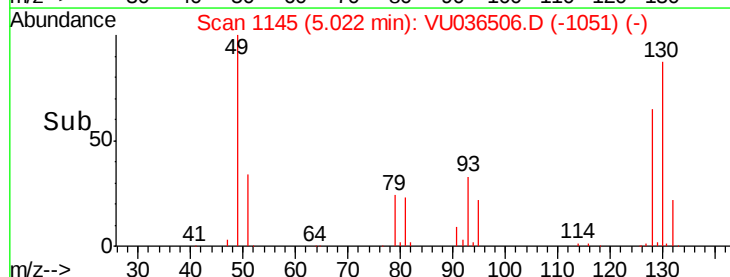
60000

40000

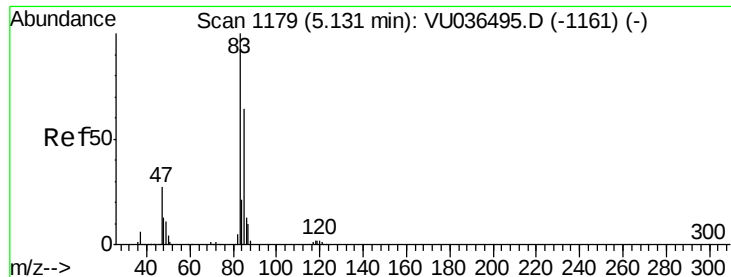
20000

0

Time-->



Time-->



#25

Chloroform

Concen: 49.062 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

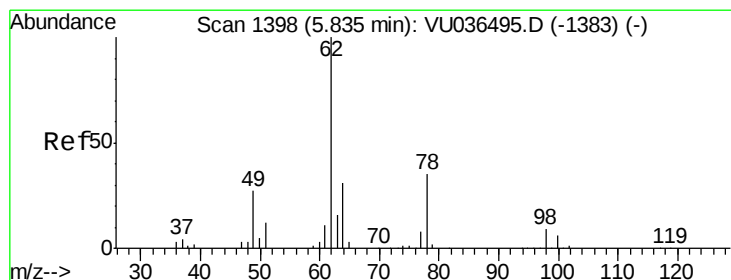
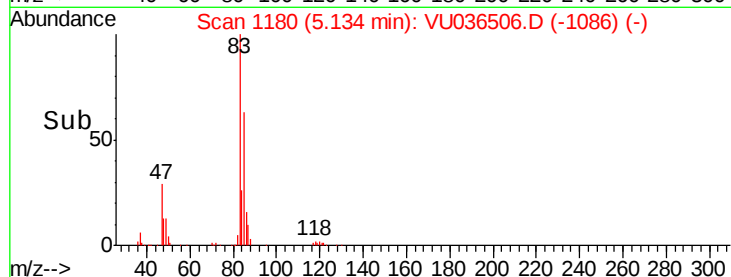
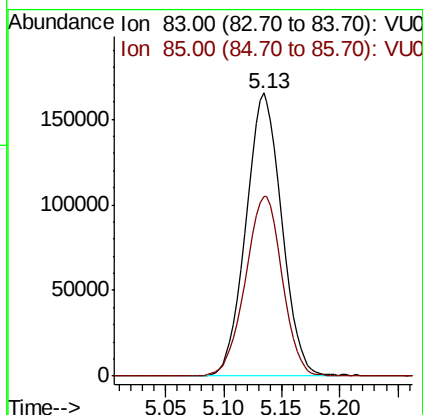
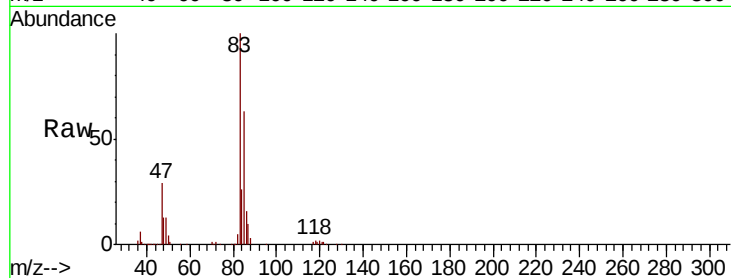
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 355290

Ion Ratio Lower Upper

83 100

85 63.4 45.1 83.9



#27

1,2-Dichloroethane

Concen: 49.422 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. 0.00 min

Lab File: VU036506.D

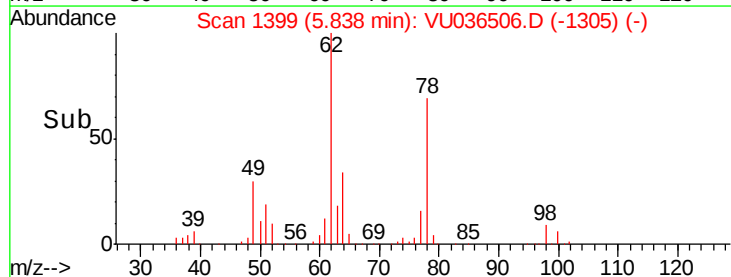
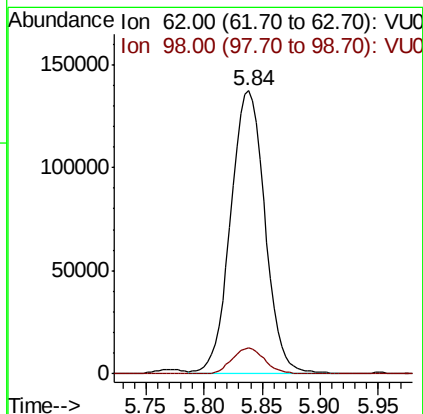
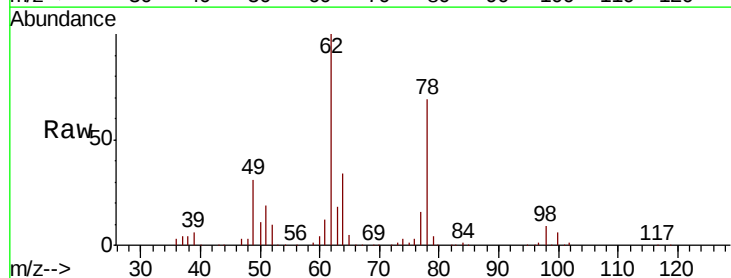
Acq: 16 Jan 2020 18:21

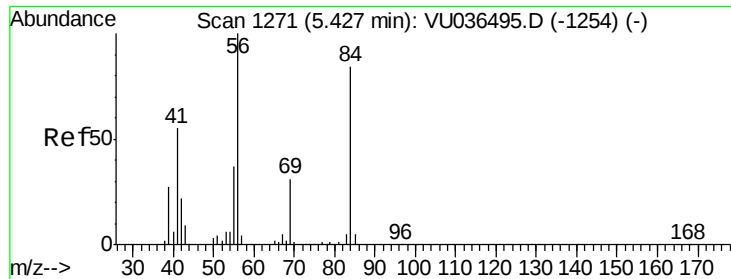
Tgt Ion: 62 Resp: 283463

Ion Ratio Lower Upper

62 100

98 9.2 6.6 9.8

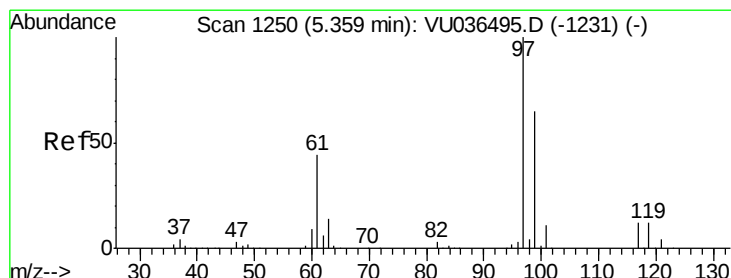
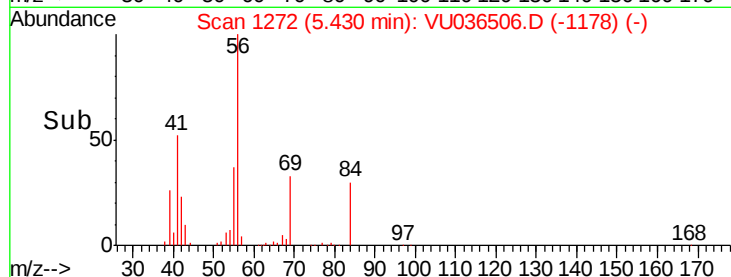
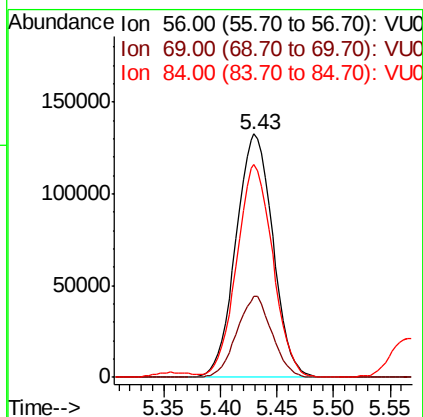
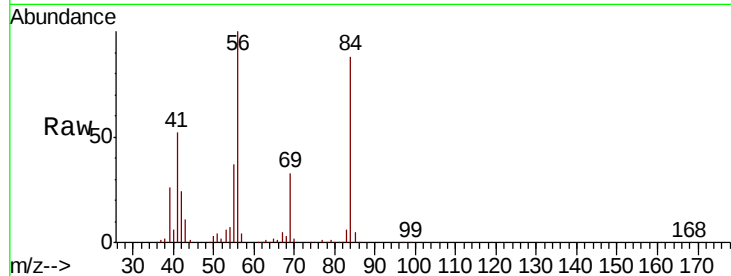




#29
Cyclohexane
Concen: 47.228 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

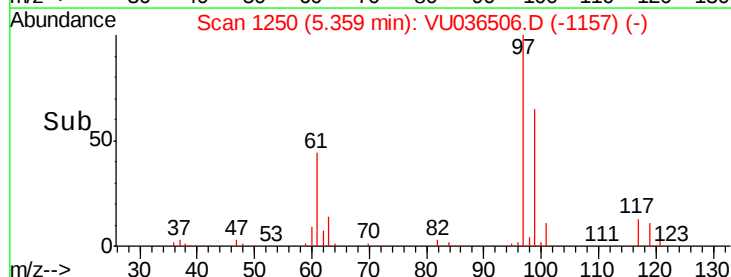
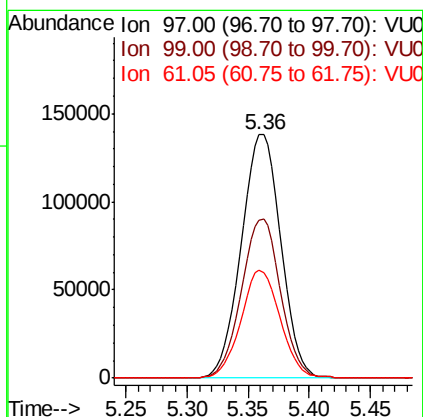
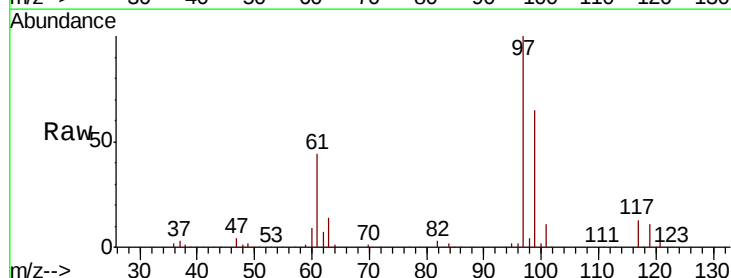
Instrument :
MSVOA_U
ClientSampleId :

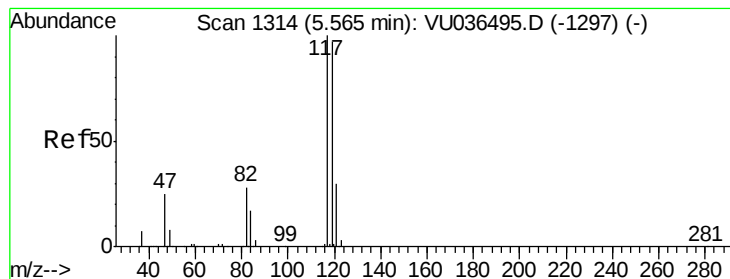
Tot Ion: 56 Resp: 301637
Ion Ratio Lower Upper
56 100
69 31.7 24.6 36.8
84 85.7 67.4 101.2



#30
1,1,1-Trichloroethane
Concen: 49.060 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Tgt Ion: 97 Resp: 310274
Ion Ratio Lower Upper
97 100
99 64.5 50.2 75.2
61 43.8 35.3 52.9





#31

Carbon tetrachloride

Concen: 50.411 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

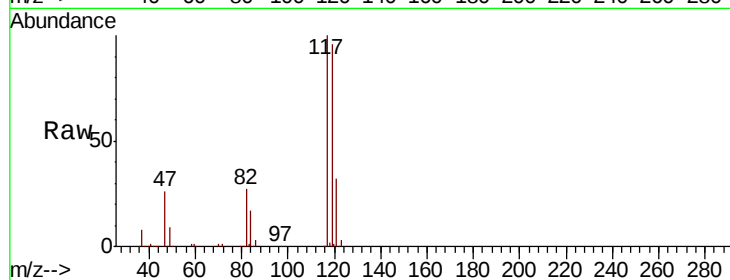
ClientSampleId :

Tot Ion:117 Resp: 273249

Ion Ratio Lower Upper

117 100

119 94.1 74.3 111.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

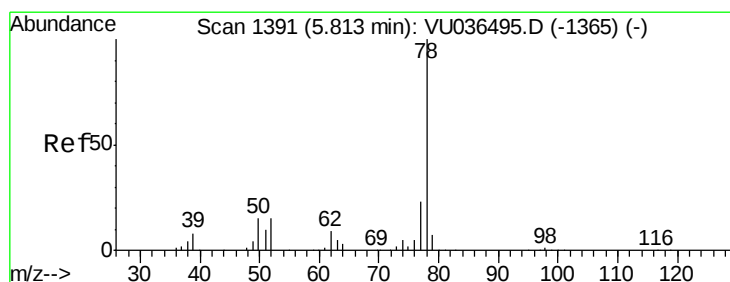
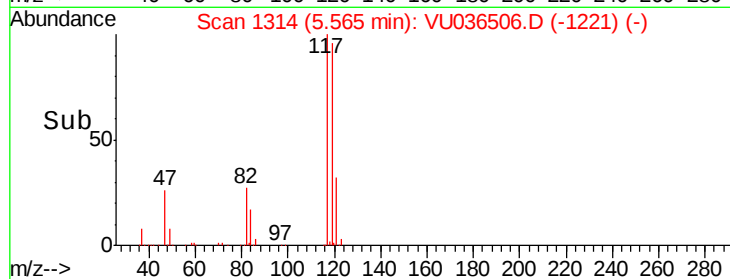
100000

50000

0

Time-->

5.50 5.60



#33

Benzene

Concen: 49.042 ug/L

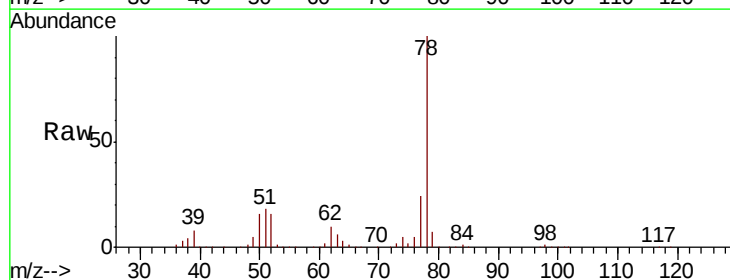
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Tgt Ion: 78 Resp: 750403



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.82

400000

300000

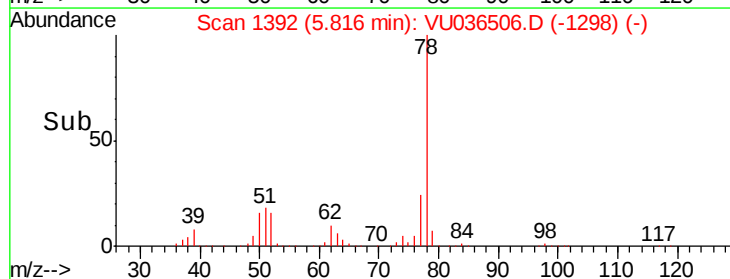
200000

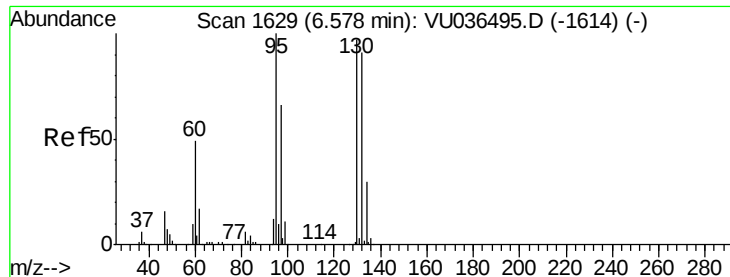
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 49.649 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 205137

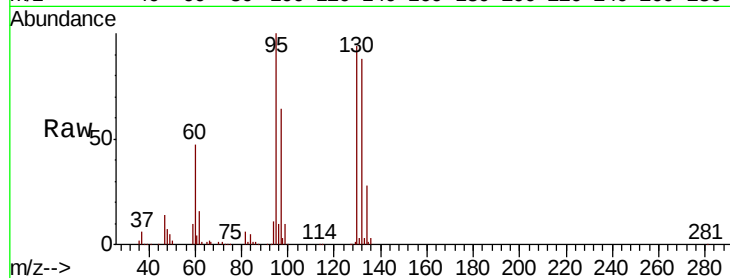
Ion Ratio Lower Upper

95 100

97 63.5 44.2 82.2

132 88.1 62.8 116.6

130 94.1 66.1 122.7

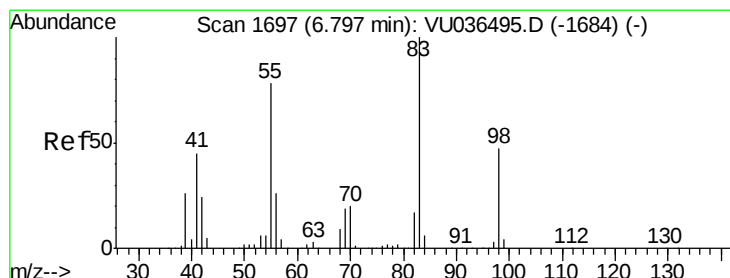
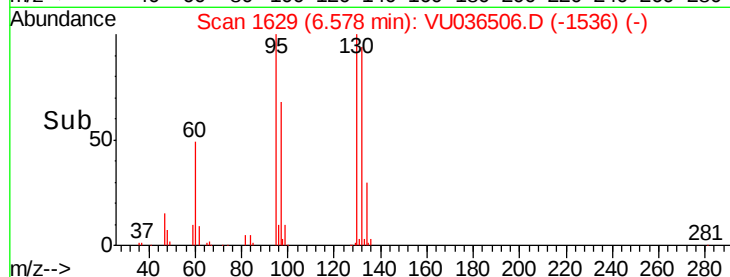
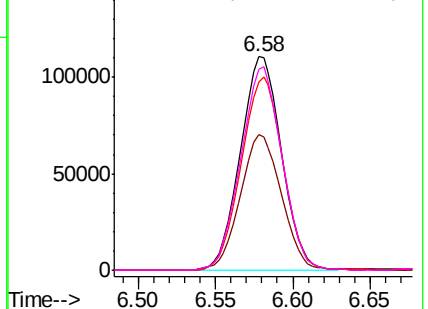


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.679 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

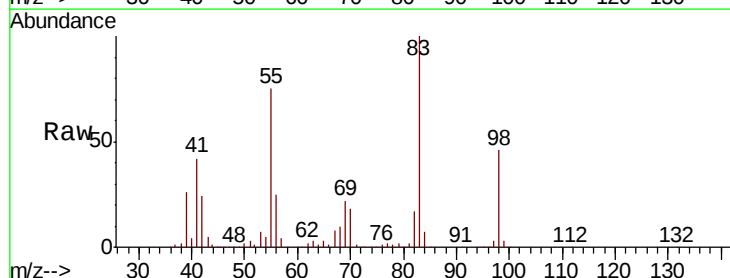
Tgt Ion: 83 Resp: 309658

Ion Ratio Lower Upper

83 100

55 73.9 59.9 89.9

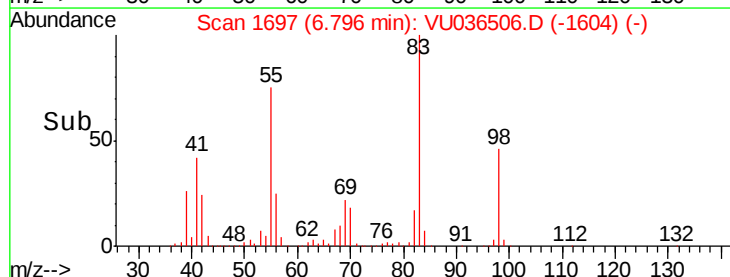
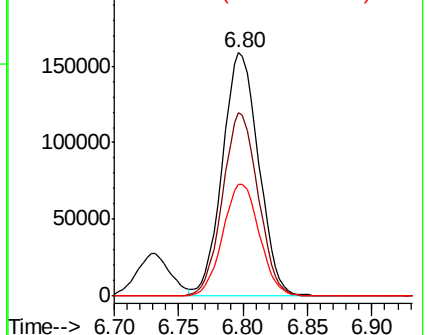
98 46.1 36.4 54.6

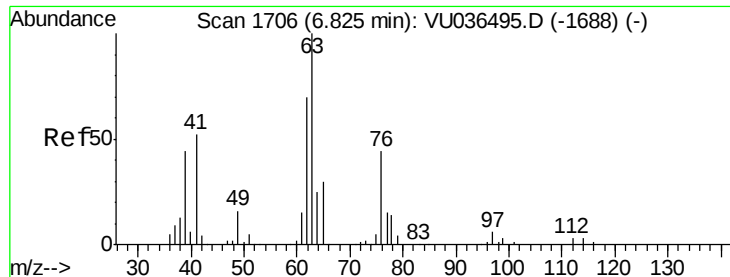


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

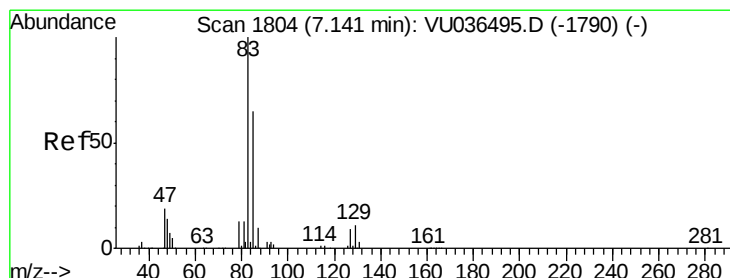
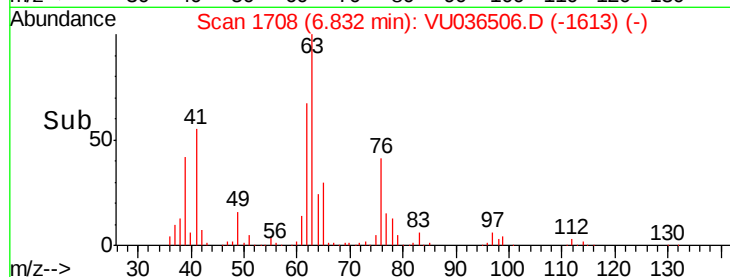
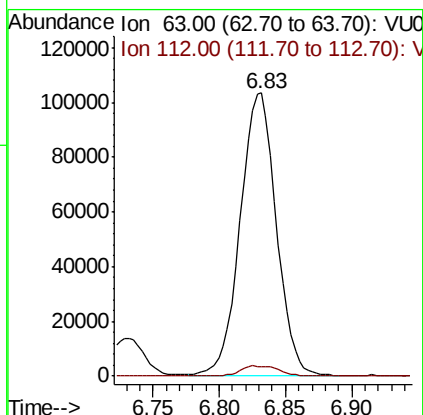
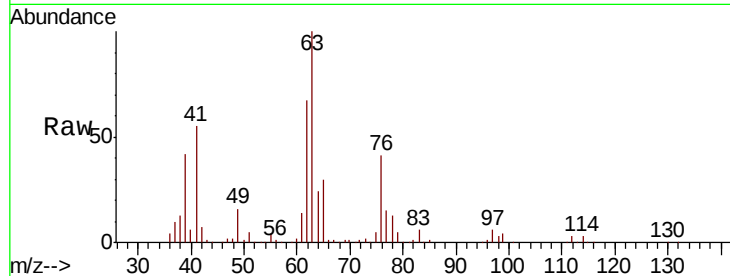




#37
 1,2-Dichloropropane
 Concen: 48.170 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.01 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

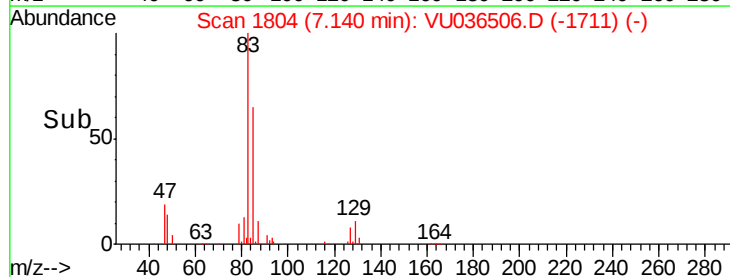
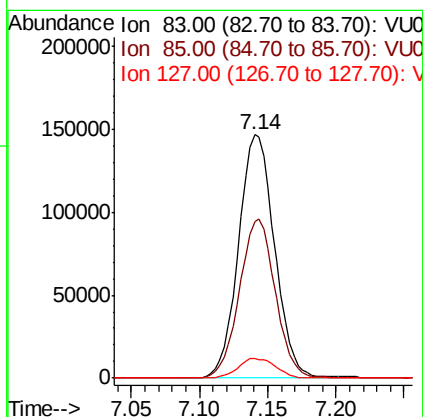
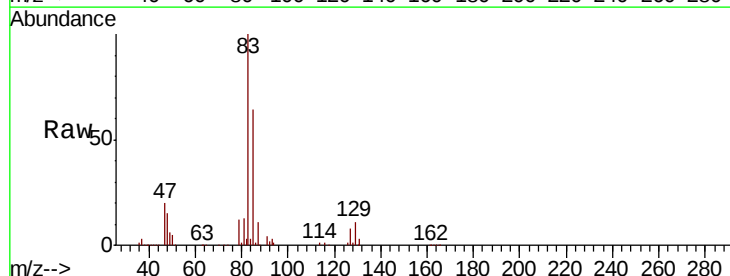
Instrument :
 MSVOA_U
 ClientSampleId :

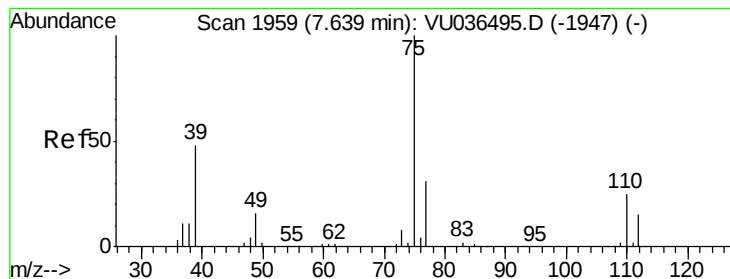
Tot Ion: 63 Resp: 195344
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.4



#38
 Bromodichloromethane
 Concen: 48.150 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

Tgt Ion: 83 Resp: 268731
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.0 81.8
 127 8.0 6.7 10.1



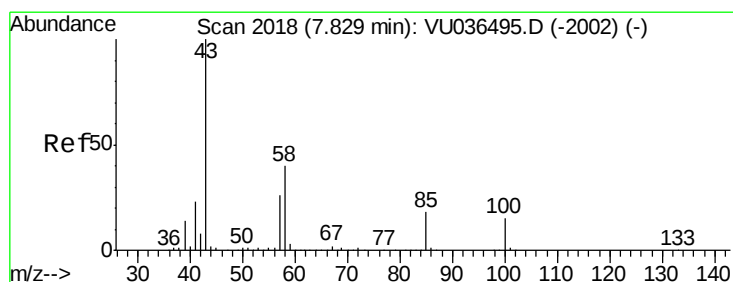
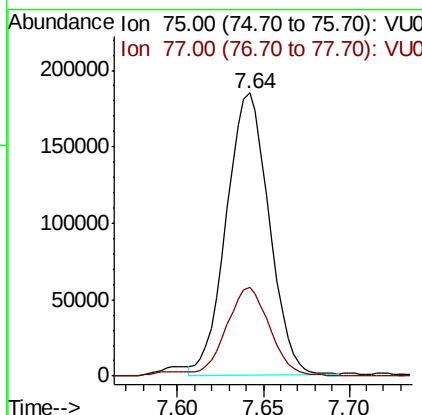
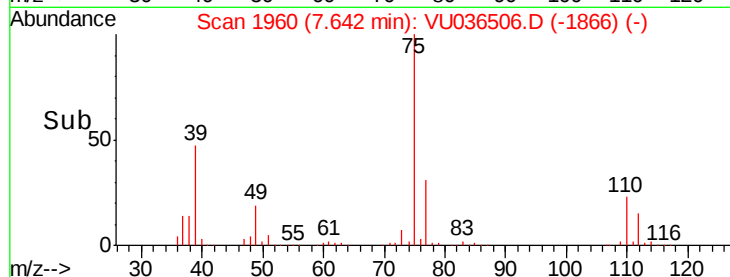
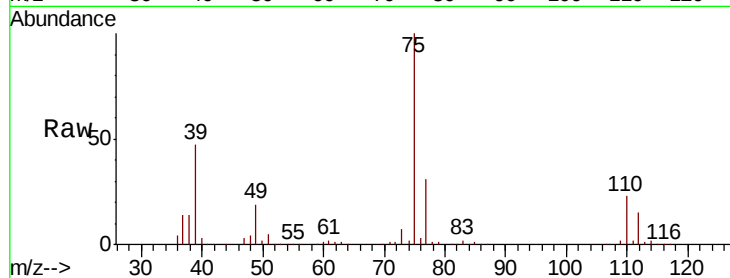


#39

cis-1,3-Dichloropropene
Concen: 48.330 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Instrument :
MSVOA_U
ClientSampleId :

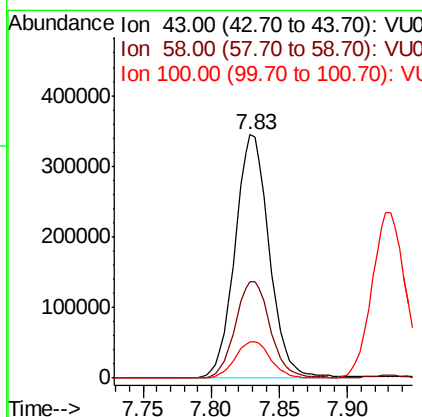
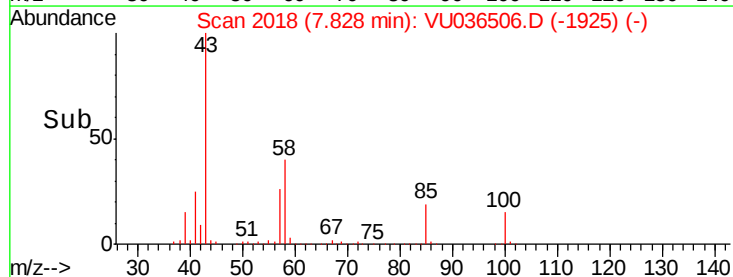
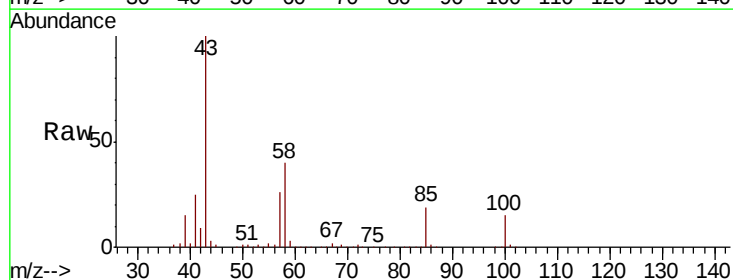
Tot Ion: 75 Resp: 317301
Ion Ratio Lower Upper
75 100
77 31.3 21.8 40.4

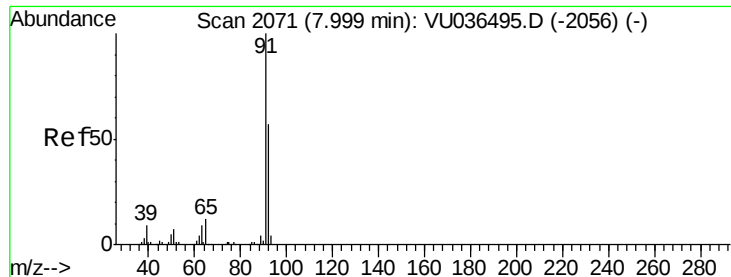


#40

4-Methyl-2-pentanone
Concen: 92.294 ug/L
RT: 7.83 min Scan# 2018
Delta R.T. -0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Tgt Ion: 43 Resp: 602112
Ion Ratio Lower Upper
43 100
58 40.7 32.0 48.0
100 15.5 11.4 17.0





#42

Toluene

Concen: 49.889 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

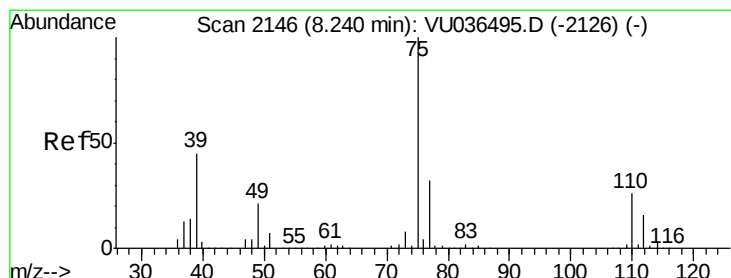
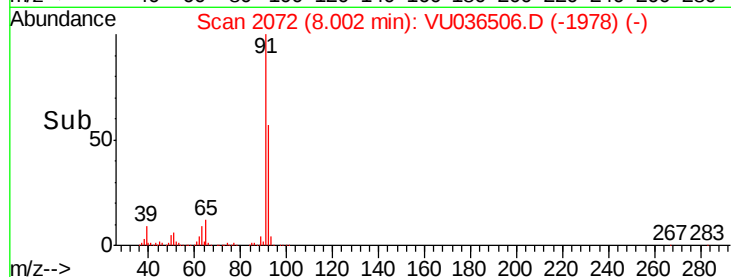
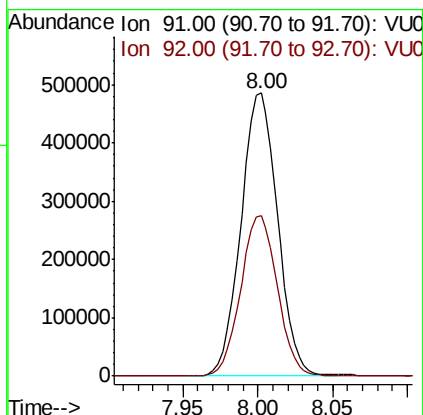
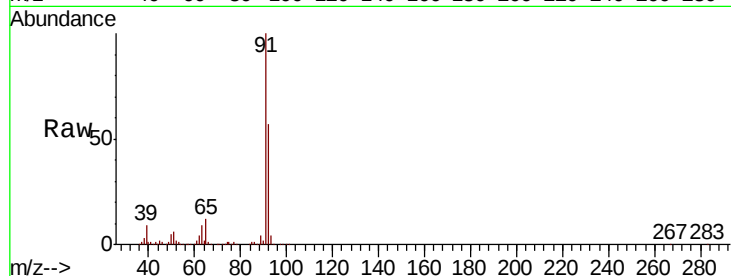
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 829129

Ion Ratio Lower Upper

91 100

92 56.6 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 49.873 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036506.D

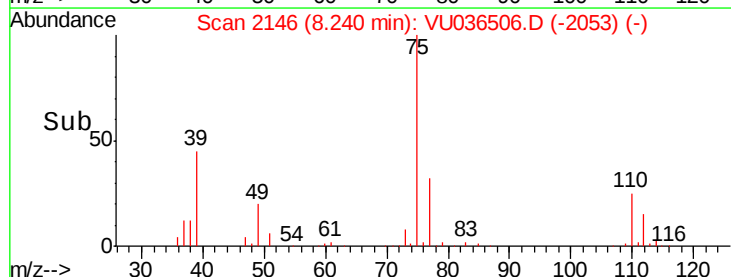
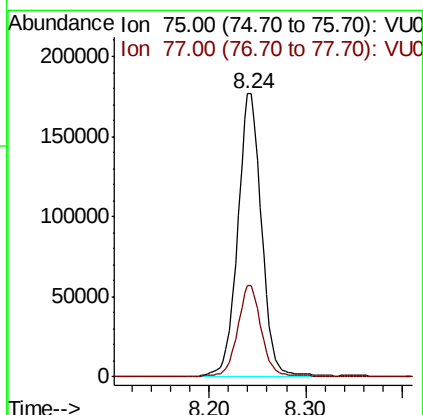
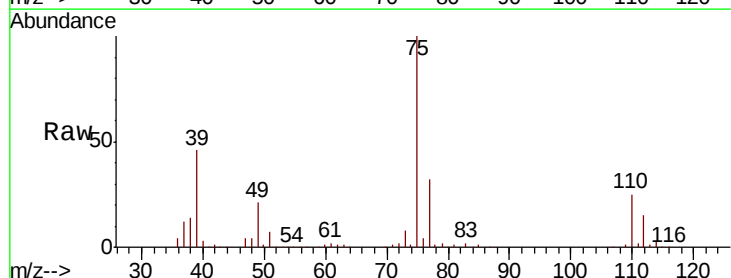
Acq: 16 Jan 2020 18:21

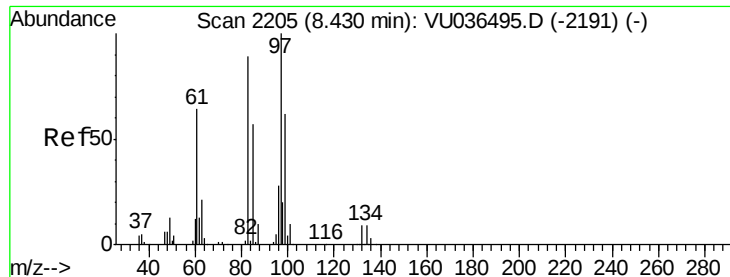
Tgt Ion: 75 Resp: 303309

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.4

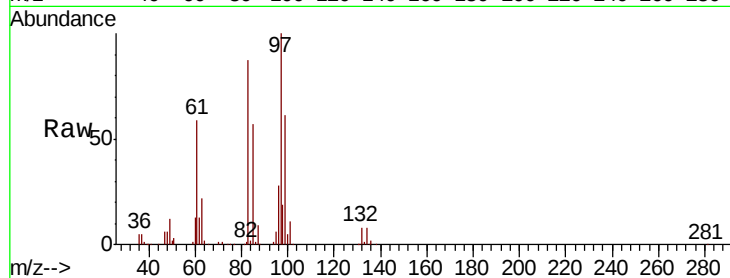




#45
1,1,2-Trichloroethane
Concen: 50.573 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	196037
Ion	Ratio	Lower	Upper
97	100		
99	61.1	44.7	82.9
83	86.9	59.4	110.2
85	57.3	39.7	73.7

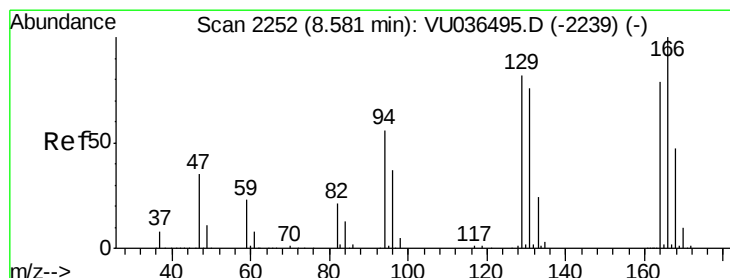
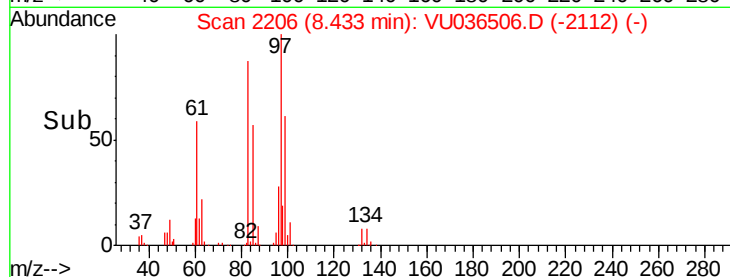
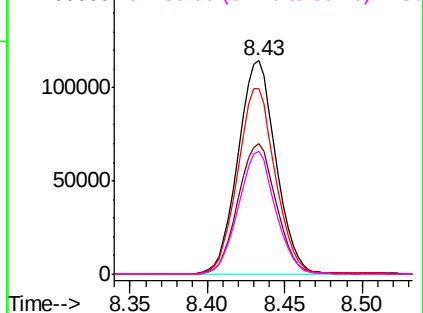


Abundance Ion 97.00 (96.70 to 97.70): VU036495.D (-2191) (-)

Ion 99.00 (98.70 to 99.70): VU036495.D (-2191) (-)

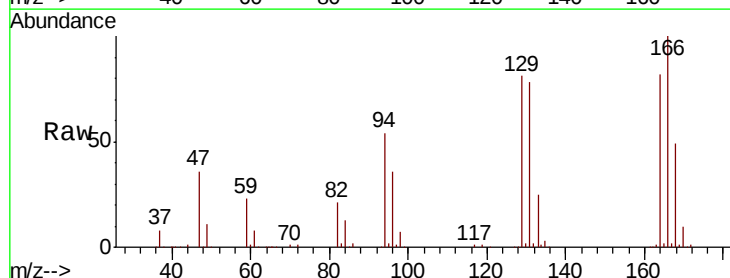
Ion 83.00 (82.70 to 83.70): VU036495.D (-2191) (-)

Ion 85.00 (84.70 to 85.70): VU036495.D (-2191) (-)



#46
Tetrachloroethene
Concen: 51.532 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Tgt Ion:	164	Resp:	143220
Ion	Ratio	Lower	Upper
164	100		
129	99.3	68.1	126.5
131	96.1	66.6	123.6
166	122.5	86.5	160.7

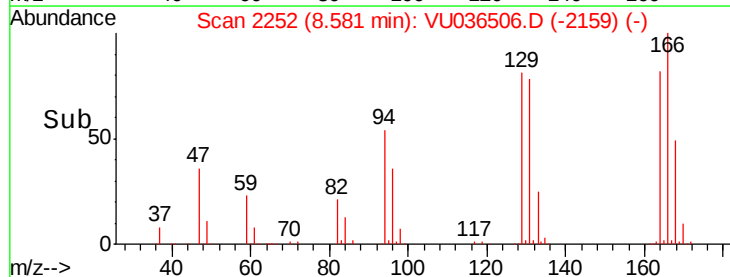
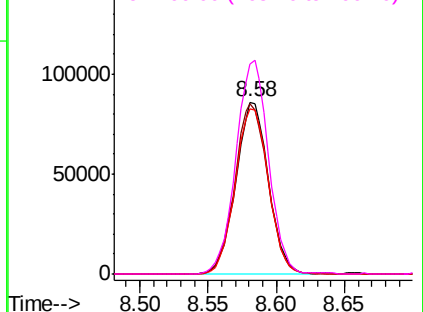


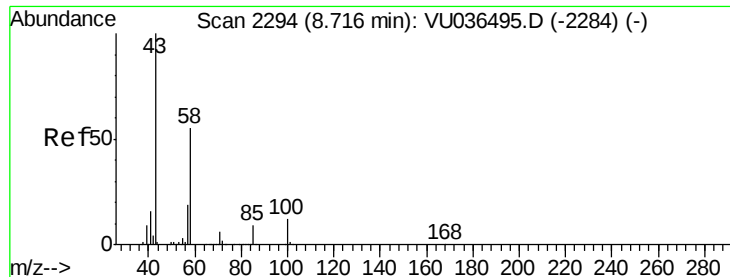
Abundance Ion 164.00 (163.70 to 164.70): VU036495.D (-2239) (-)

Ion 129.00 (128.70 to 129.70): VU036495.D (-2239) (-)

Ion 131.00 (130.70 to 131.70): VU036495.D (-2239) (-)

Ion 166.00 (165.70 to 166.70): VU036495.D (-2239) (-)

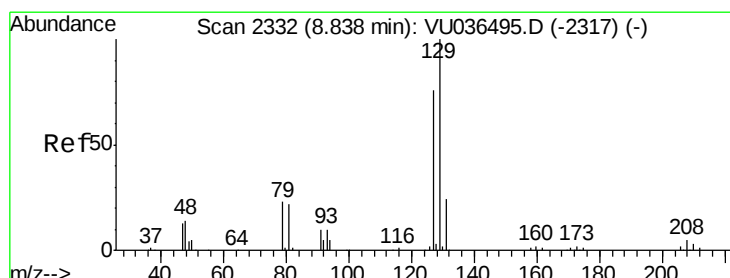
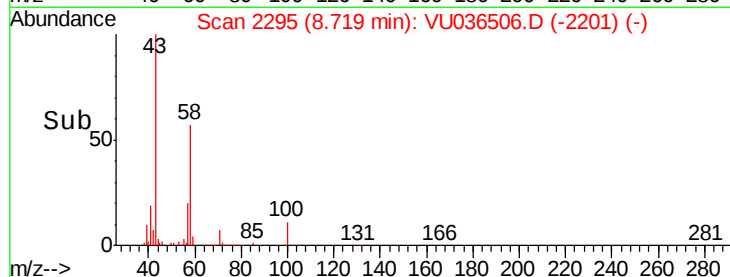
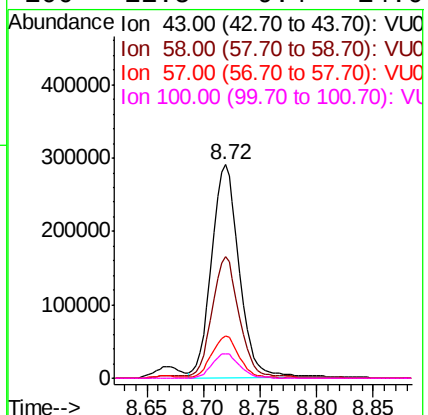
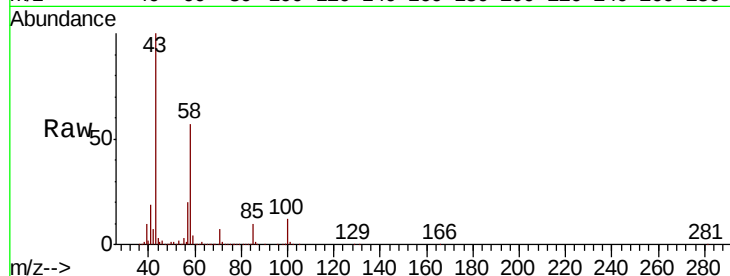




#48
2-Hexanone
Concen: 95.278 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

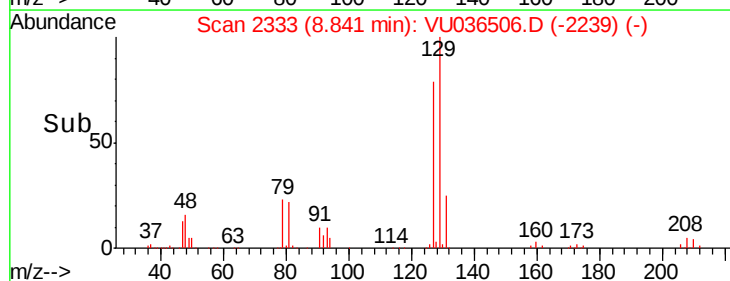
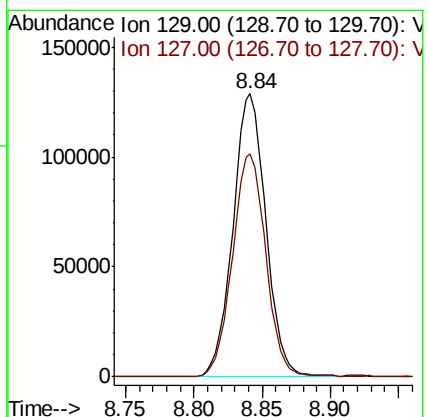
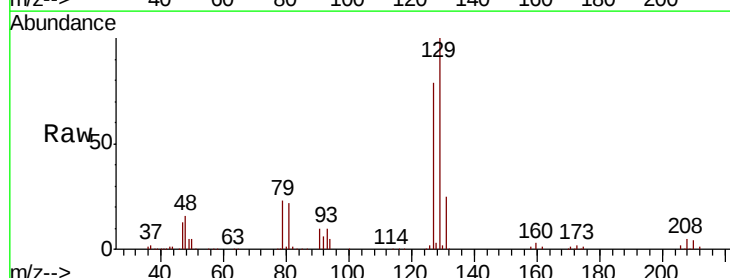
Instrument :
MSVOA_U
ClientSampled :

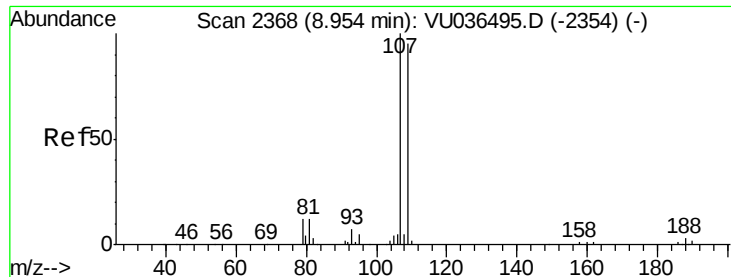
Tot Ion:	43	Resp:	491607
Ion	Ratio	Lower	Upper
43	100		
58	56.0	43.7	65.5
57	19.5	14.7	22.1
100	11.5	9.4	14.0



#49
Dibromochloromethane
Concen: 50.127 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036506.D
Acq: 16 Jan 2020 18:21

Tgt Ion:	129	Resp:	216136
Ion	Ratio	Lower	Upper
129	100		
127	78.9	54.7	101.7





#50

1,2-Dibromoethane

Concen: 49.544 ug/L

RT: 8.95 min Scan# 2368

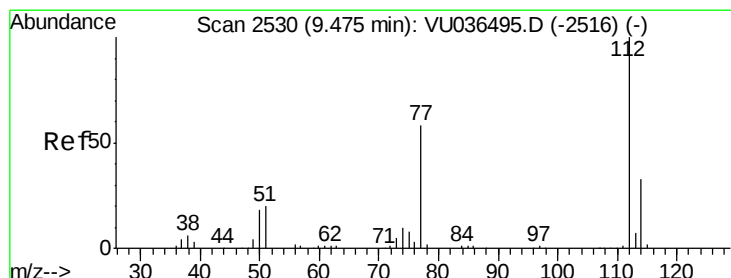
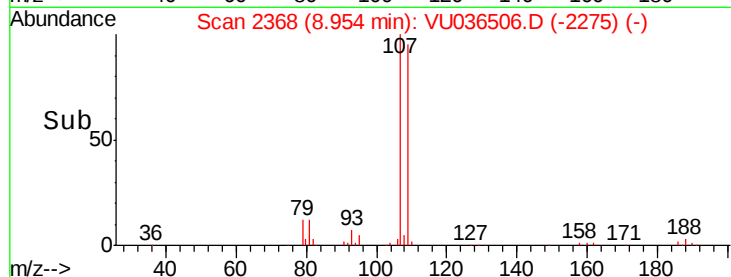
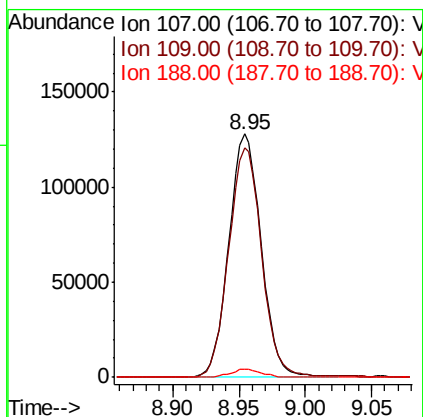
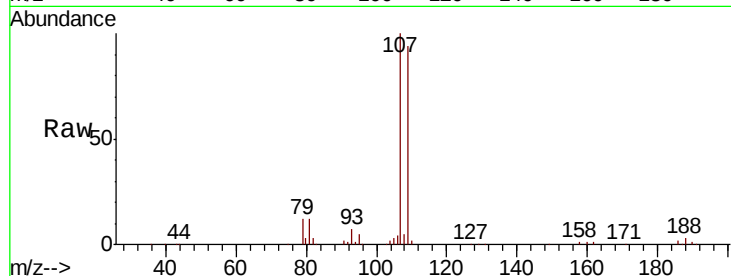
Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	107	Resp:	217698
Ion	Ratio	Lower	Upper
107	100		
109	94.4	65.0	120.8
188	3.4	2.6	4.0



#51

Chlorobenzene

Concen: 50.668 ug/L

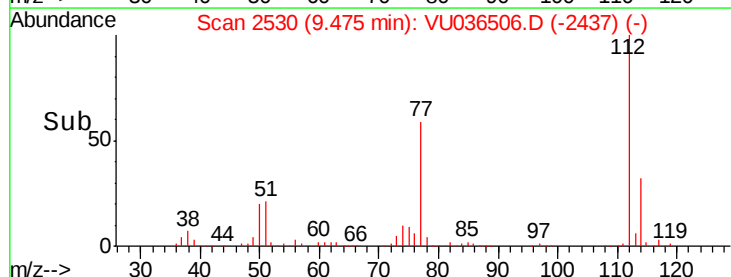
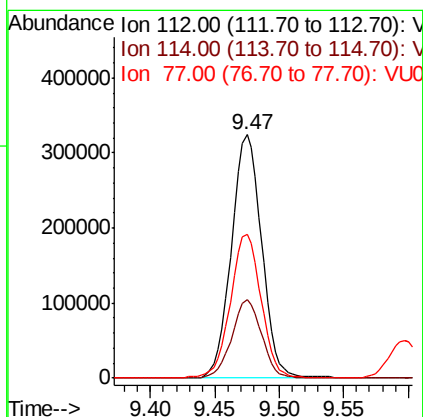
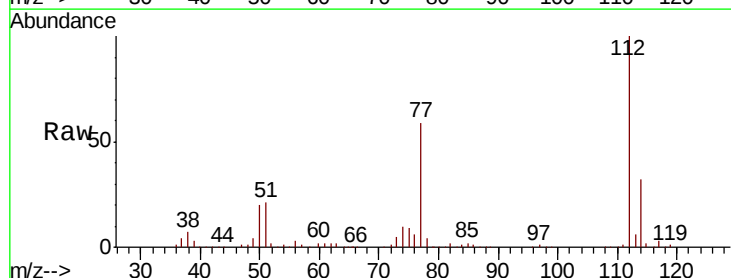
RT: 9.47 min Scan# 2530

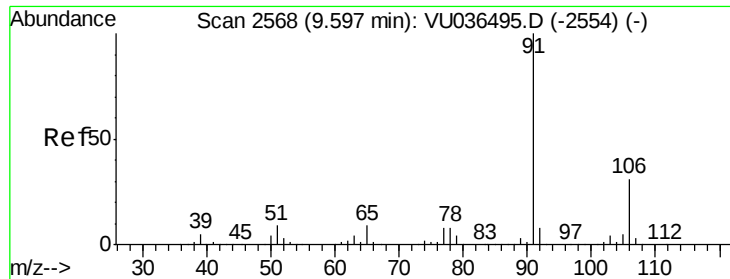
Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Tgt Ion:	112	Resp:	529501
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.0	41.0
77	59.1	47.8	71.8





#52

Ethylbenzene

Concen: 50.458 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

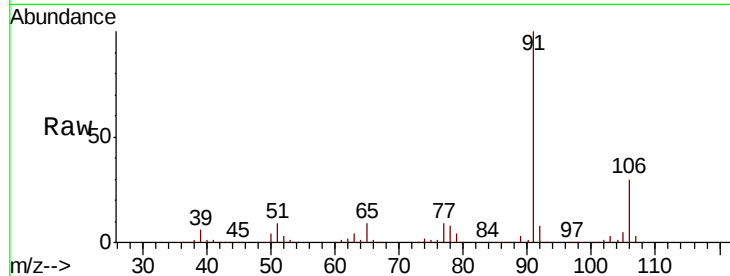
ClientSampleId :

Tot Ion: 91 Resp: 936631

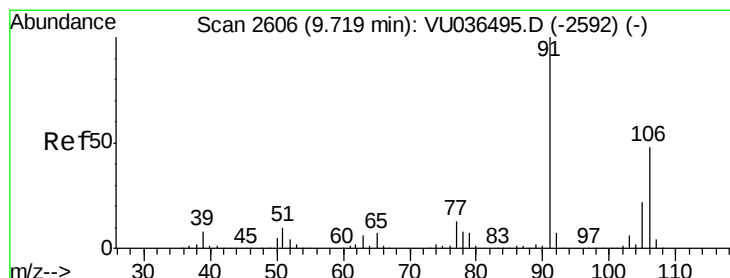
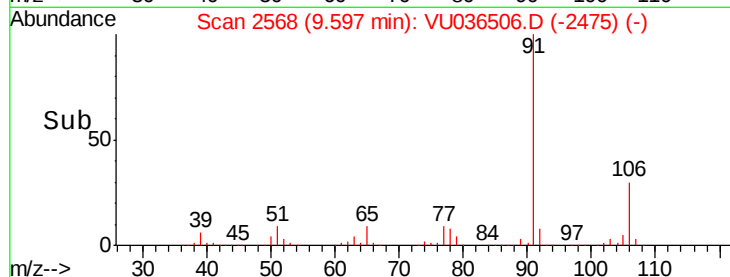
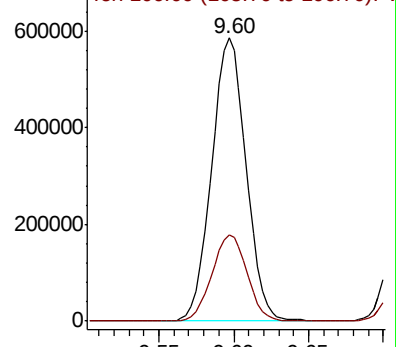
Ion Ratio Lower Upper

91 100

106 30.3 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VU036506.D (-2475) (-)



#53

m,p-Xylene

Concen: 50.280 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036506.D

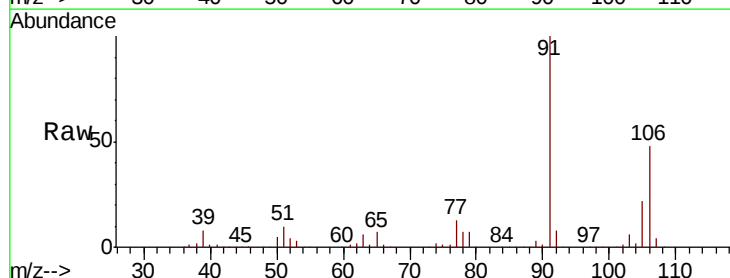
Acq: 16 Jan 2020 18:21

Tgt Ion: 106 Resp: 349017

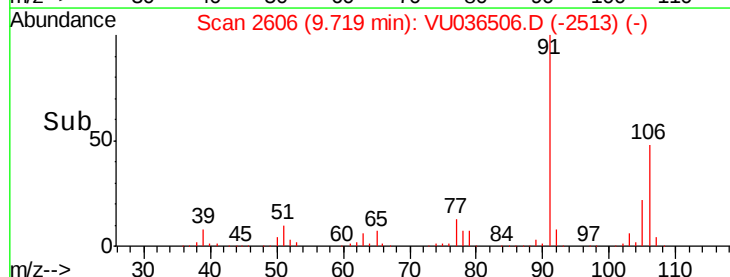
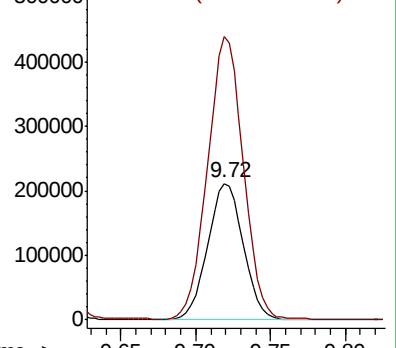
Ion Ratio Lower Upper

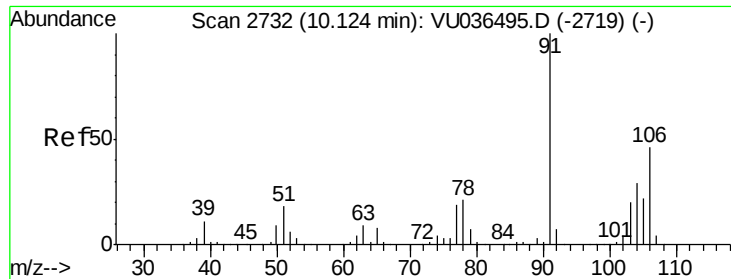
106 100

91 206.9 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036506.D (-2513) (-)





#54

o-xylene

Concen: 50.824 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

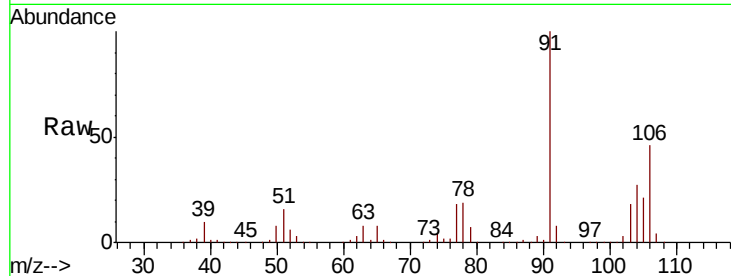
ClientSampleId :

Tot Ion:106 Resp: 352198

Ion Ratio Lower Upper

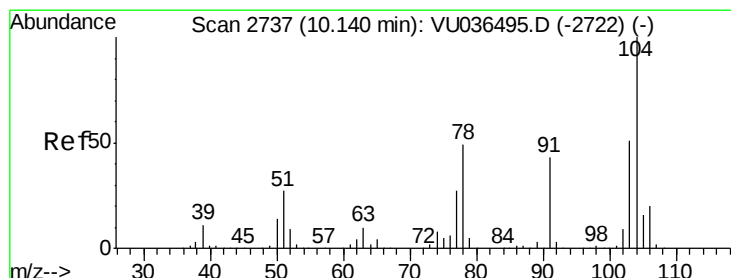
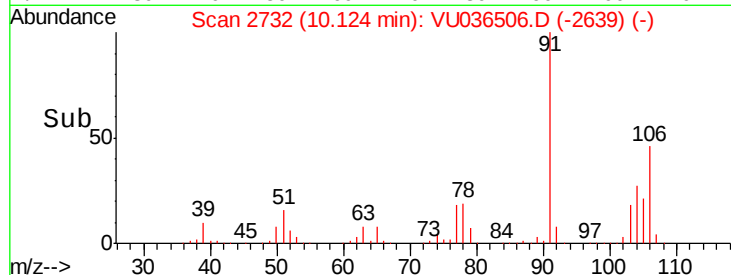
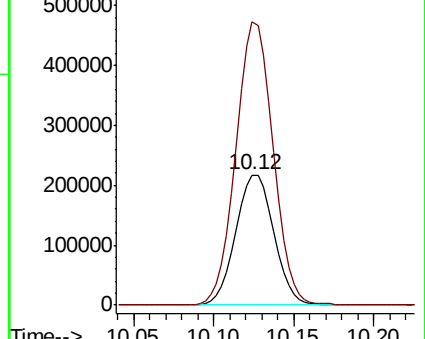
106 100

91 217.4 156.4 290.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.194 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036506.D

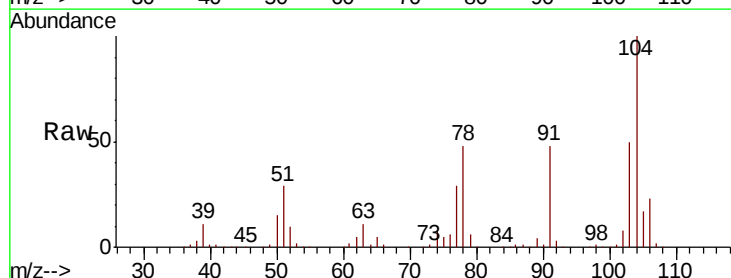
Acq: 16 Jan 2020 18:21

Tgt Ion:104 Resp: 586605

Ion Ratio Lower Upper

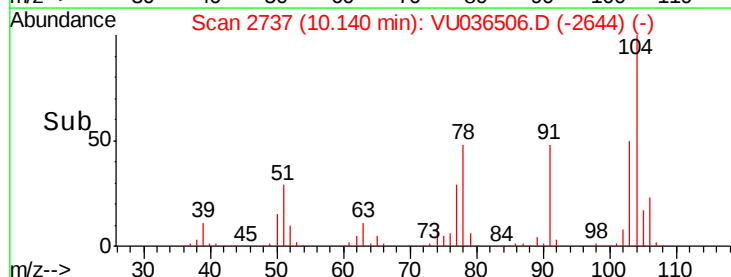
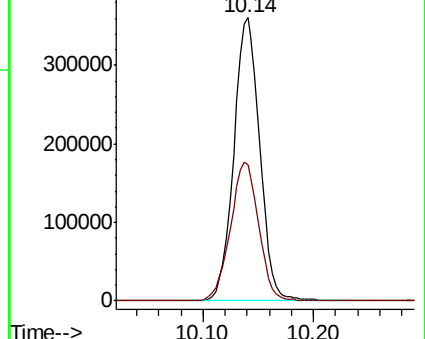
104 100

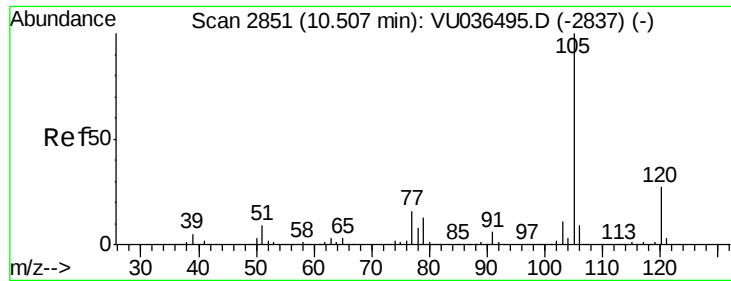
78 48.1 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.827 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

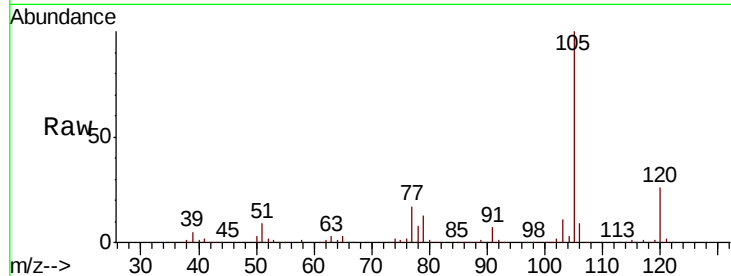
Tot Ion:105 Resp: 903996

Ion Ratio Lower Upper

105 100

120 26.4 21.5 32.3

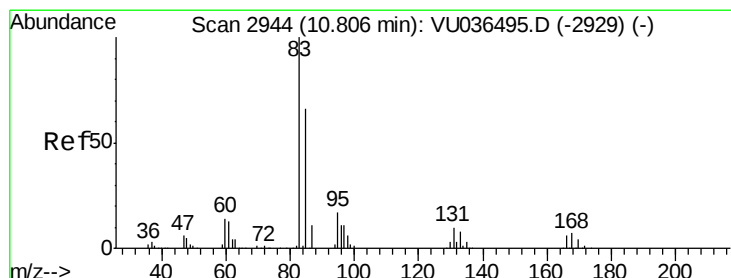
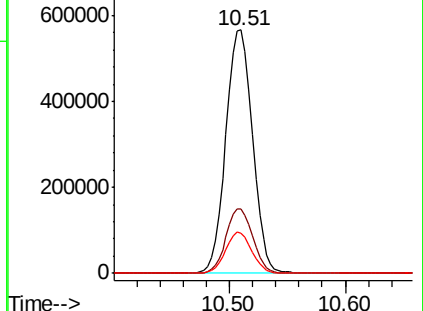
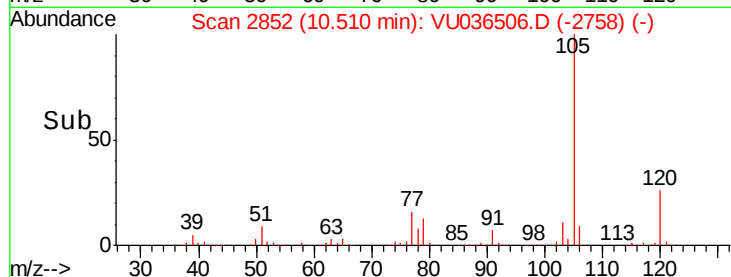
77 16.6 13.4 20.2



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.260 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

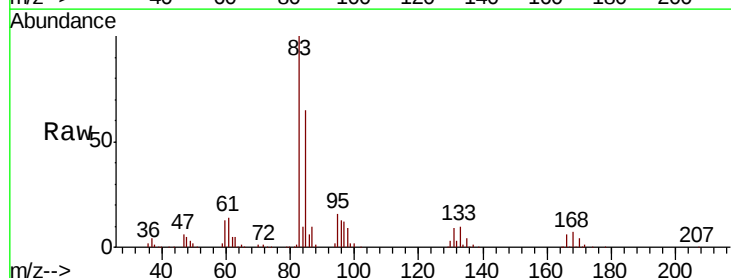
Tgt Ion: 83 Resp: 338795

Ion Ratio Lower Upper

83 100

85 64.6 44.7 82.9

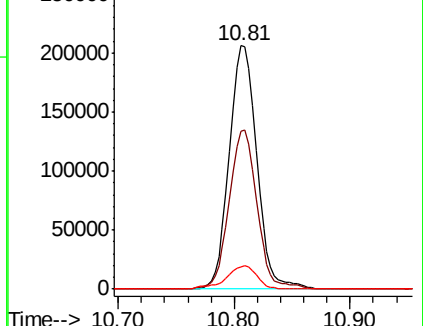
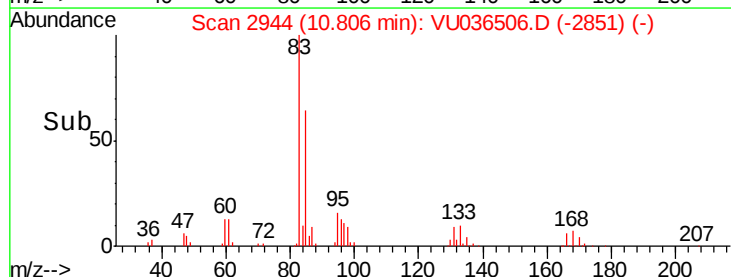
131 9.4 7.0 10.6

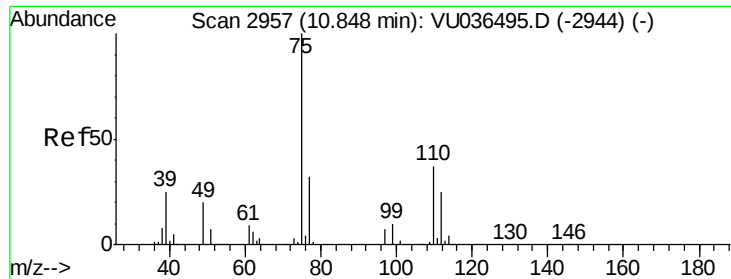


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.247 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

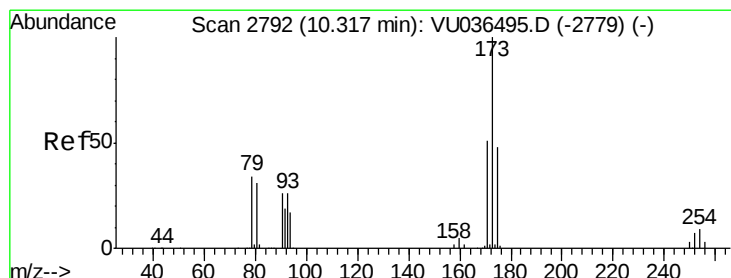
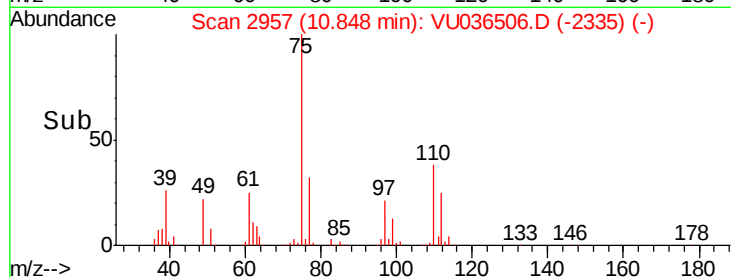
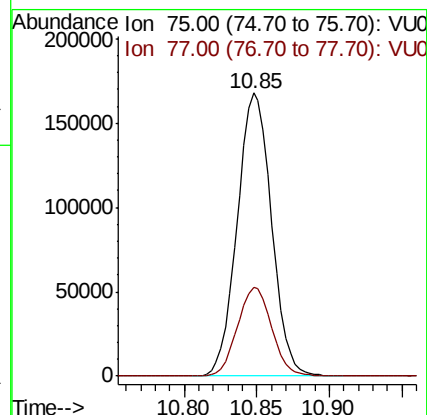
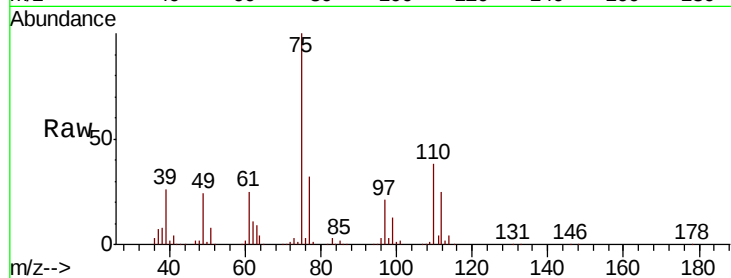
ClientSampleId :

Tot Ion: 75 Resp: 275406

Ion Ratio Lower Upper

75 100

77 31.4 25.0 37.4



#61

Bromoform

Concen: 44.365 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

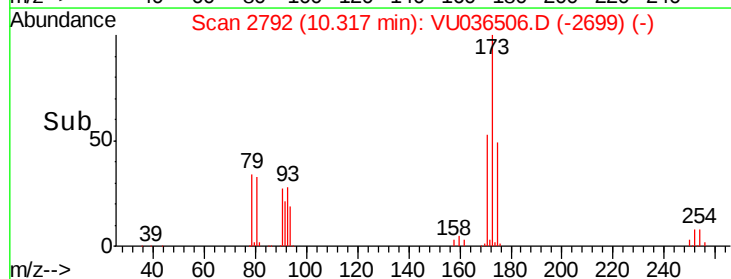
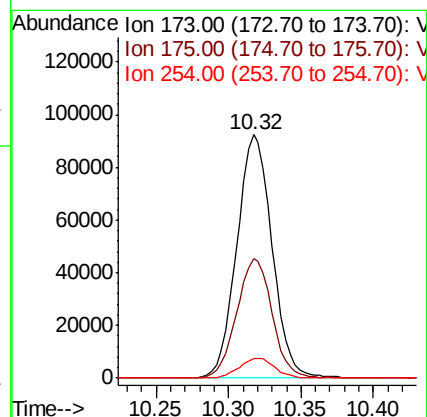
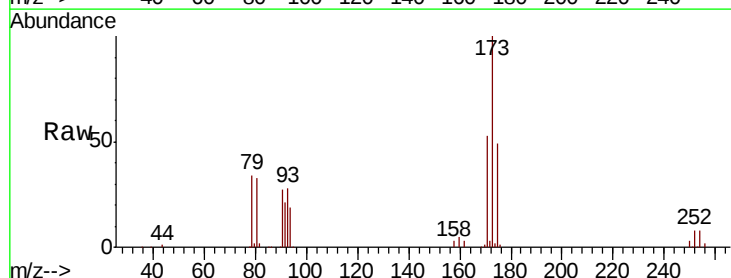
Tgt Ion: 173 Resp: 155996

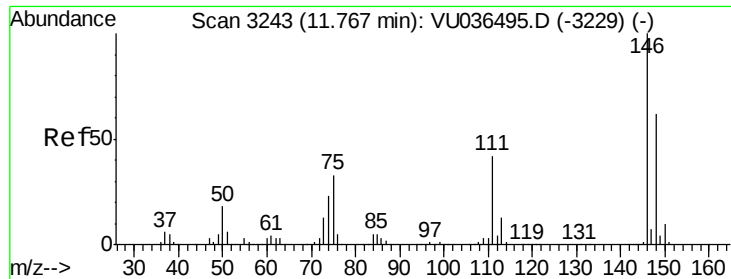
Ion Ratio Lower Upper

173 100

175 48.9 39.6 59.4

254 8.1 6.3 9.5





#62

1,3-Dichlorobenzene

Concen: 49.411 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036506.D

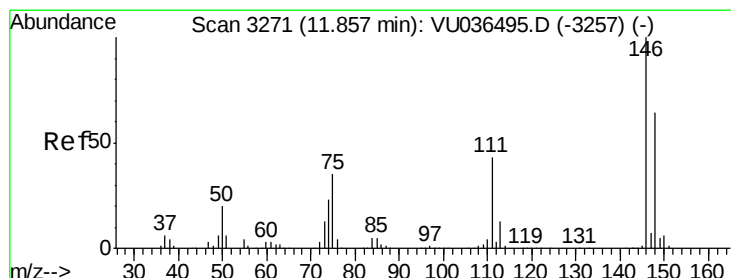
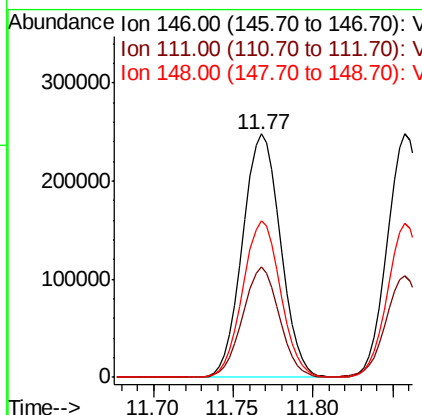
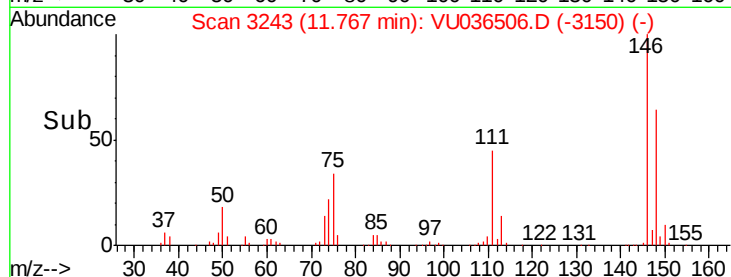
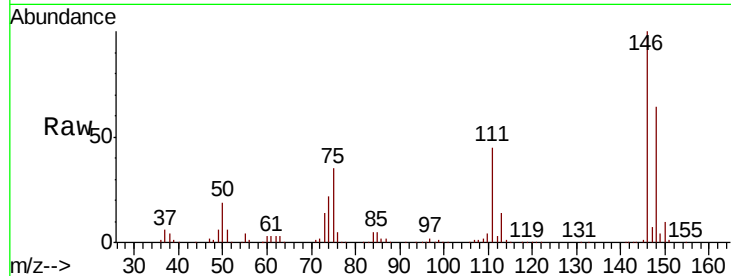
Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146	Resp:	401717
Ion Ratio	Lower	Upper
146	100	
111	45.4	31.3 58.1
148	64.4	44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 49.181 ug/L

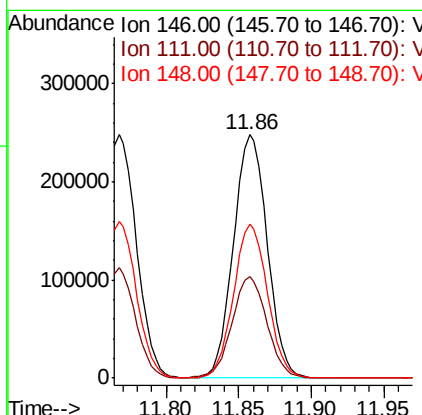
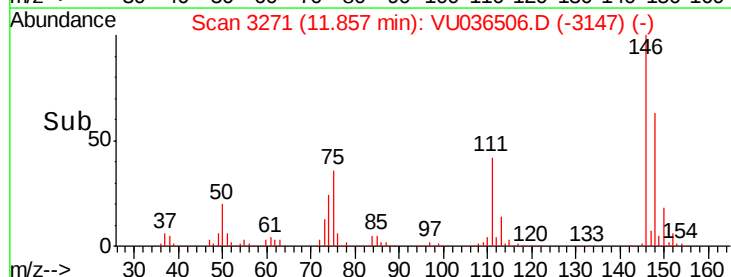
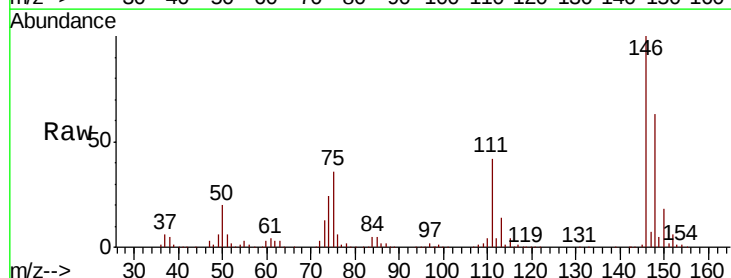
RT: 11.86 min Scan# 3271

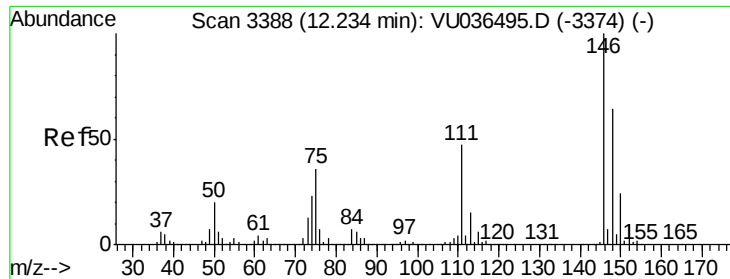
Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Tgt Ion:146	Resp:	401774
Ion Ratio	Lower	Upper
146	100	
111	41.7	29.3 54.3
148	63.2	43.8 81.3

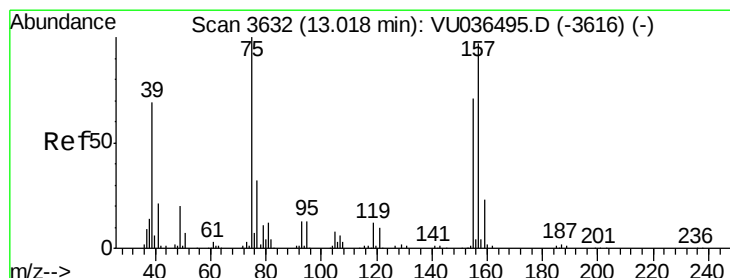
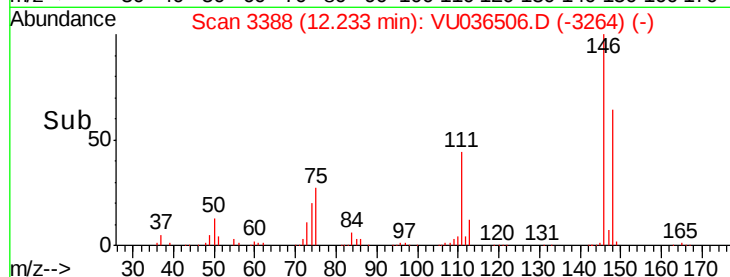
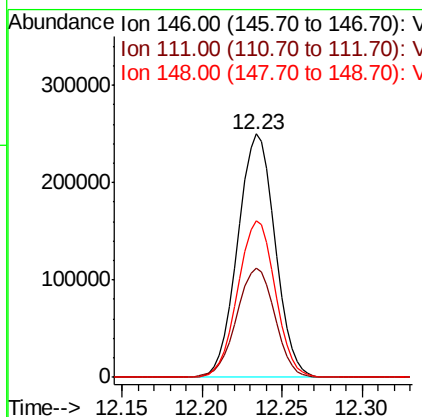
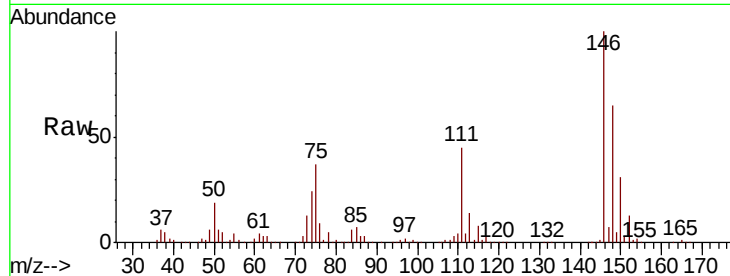




#65
 1,2-Dichlorobenzene
 Concen: 49.635 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

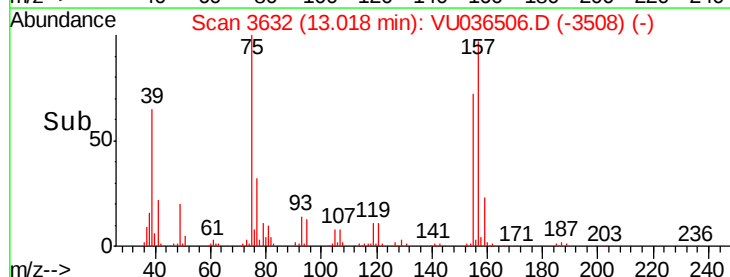
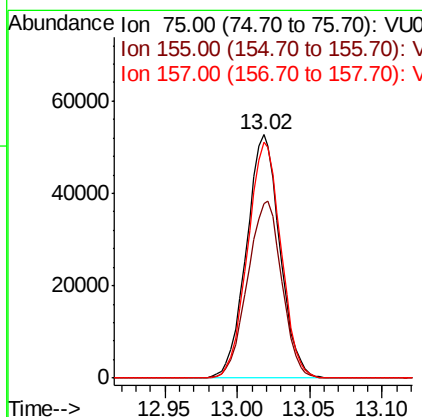
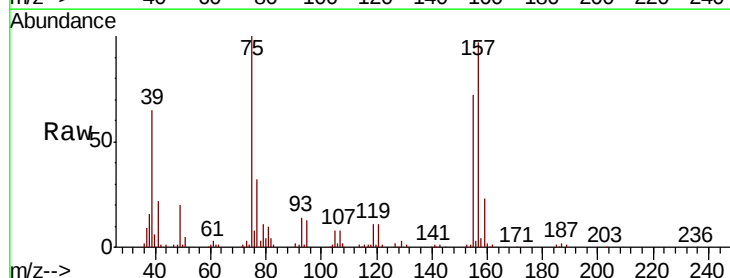
Instrument :
 MSVOA_U
 ClientSampleId :

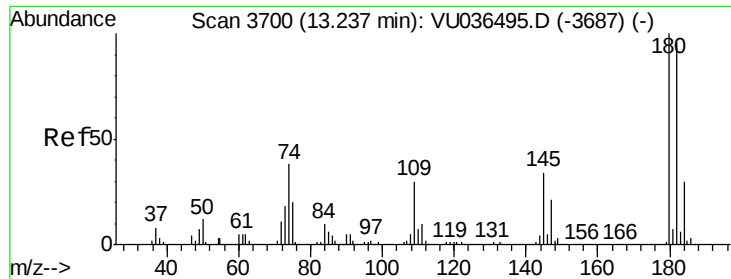
Tot Ion:146 Resp: 398045
 Ion Ratio Lower Upper
 146 100
 111 45.1 37.0 55.4
 148 64.6 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.971 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

Tgt Ion: 75 Resp: 84598
 Ion Ratio Lower Upper
 75 100
 155 71.8 59.1 88.7
 157 96.9 72.7 109.1

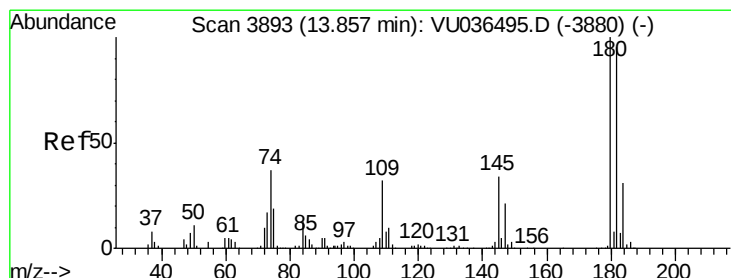
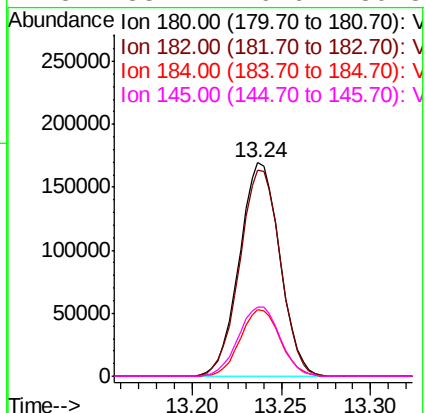
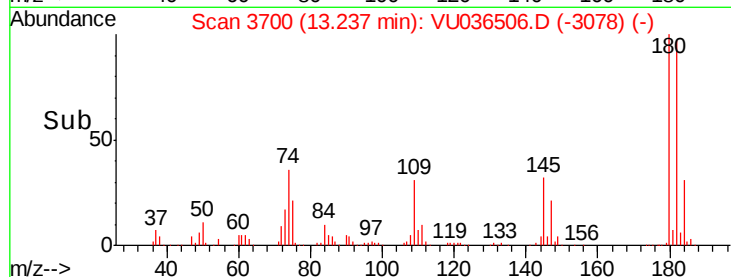
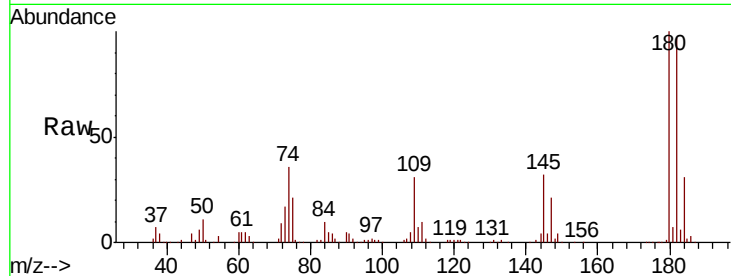




#67
 1,3,5-Trichlorobenzene
 Concen: 54.558 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

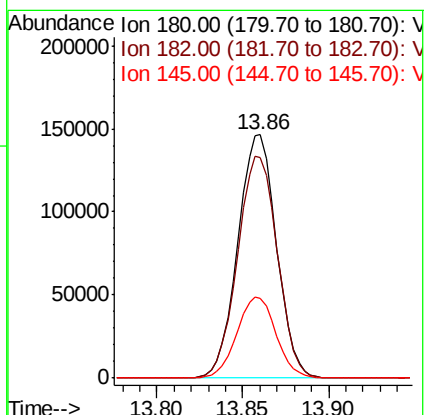
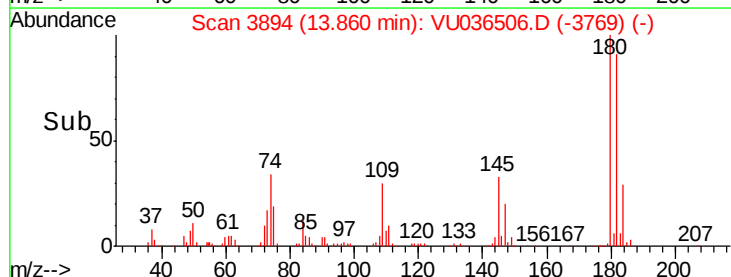
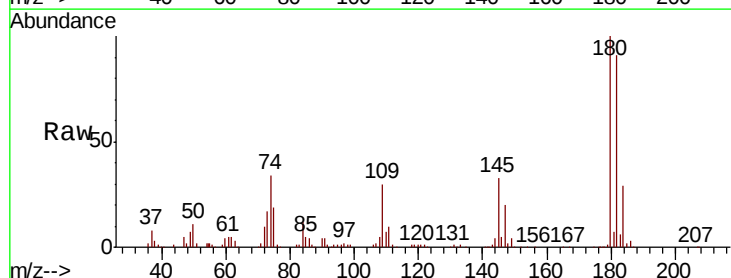
Instrument :
 MSVOA_U
 ClientSampleId :

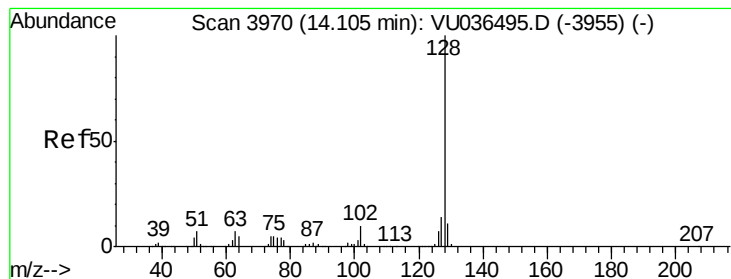
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	75.8	113.6
184	30.9	24.4	36.6
145	33.4	26.6	39.8



#68
 1,2,4-trichlorobenzene
 Concen: 63.214 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036506.D
 Acq: 16 Jan 2020 18:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.1	111.1
145	33.7	26.6	40.0





#69

Naphthalene

Concen: 69.521 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

Instrument :

MSVOA_U

ClientSampleId :

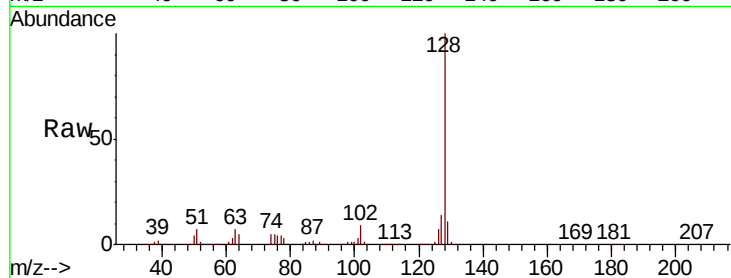
Tot Ion:128 Resp: 851113

Ion Ratio Lower Upper

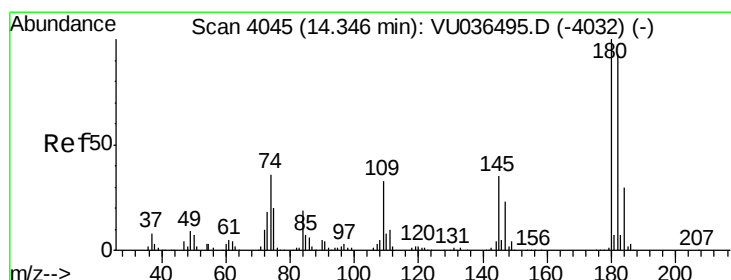
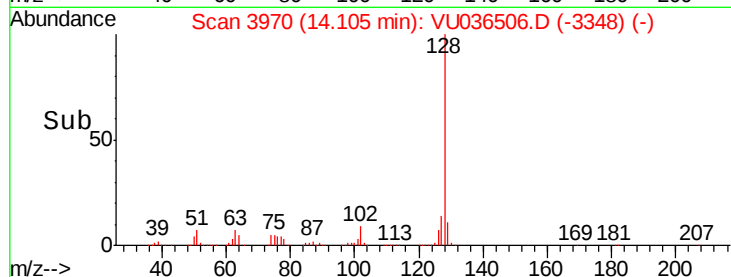
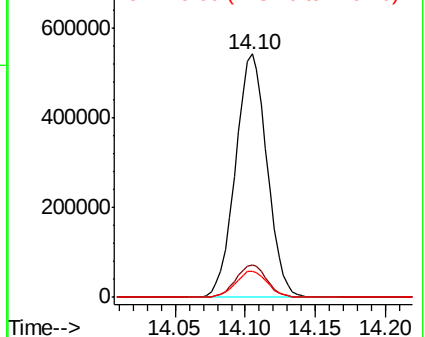
128 100

127 13.1 10.0 15.0

129 10.9 8.6 12.8



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: 62.131 ug/L

RT: 14.35 min Scan# 4045

Delta R.T. -0.00 min

Lab File: VU036506.D

Acq: 16 Jan 2020 18:21

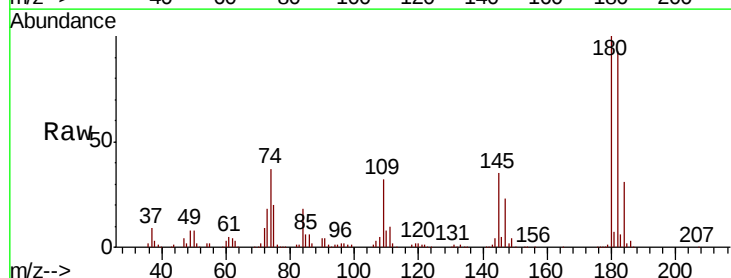
Tgt Ion:180 Resp: 233527

Ion Ratio Lower Upper

180 100

182 94.3 77.1 115.7

145 34.8 29.2 43.8



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

