

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060920\
 Data File : VU038701.D
 Acq On : 09 Jun 2020 04:48
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Quant Time: Jun 09 06:15:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jun 09 06:12:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	522573	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	492191	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	242442	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	145666	49.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.78%
7) Chloroethane-d5	1.93	69	119395	52.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.42%
11) 1,1-Dichloroethene-d2	2.59	63	294978	46.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.72%
21) 2-Butanone-d5	4.66	46	331729	116.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.79%
24) Chloroform-d	5.10	84	333242	52.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.88%
26) 1,2-Dichloroethane-d4	5.74	65	225609	54.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.14%
32) Benzene-d6	5.76	84	633963	53.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.94%
36) 1,2-Dichloropropane-d6	6.72	67	202516	55.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.84%
41) Toluene-d8	7.92	98	533808	49.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.64%
43) trans-1,3-Dichloropropene-	8.20	79	102792	55.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	111.76%
47) 2-Hexanone-d5	8.65	63	240004	123.40	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	123.40%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	309897	56.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	113.72%
64) 1,2-Dichlorobenzene-d4	12.20	152	211308	50.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	169976	41.075	ug/L 100
3) Chloromethane	1.53	50	201006	50.352	ug/L 99
5) Vinyl chloride	1.62	62	198189	47.404	ug/L 98
6) Bromomethane	1.87	94	117656	54.034	ug/L 99
8) Chloroethane	1.95	64	126767	51.831	ug/L 98
9) Trichlorofluoromethane	2.16	101	244549	42.474	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	128516	38.294	ug/L 99
12) 1,1-Dichloroethene	2.60	96	151772	45.885	ug/L 90
13) Acetone	2.66	43	253162	110.605	ug/L 96
14) Carbon disulfide	2.82	76	482379	45.036	ug/L 99
15) Methyl Acetate	2.98	43	270965	56.649	ug/L 100
16) Methylene chloride	3.08	84	212185	54.030	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	175202	48.404	ug/L 99
18) Methyl tert-butyl Ether	3.40	73	655111	55.978	ug/L 99
19) 1,1-Dichloroethane	3.91	63	352432	51.386	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	204031	50.993	ug/L 98
22) 2-Butanone	4.75	43	408688	116.430	ug/L 100

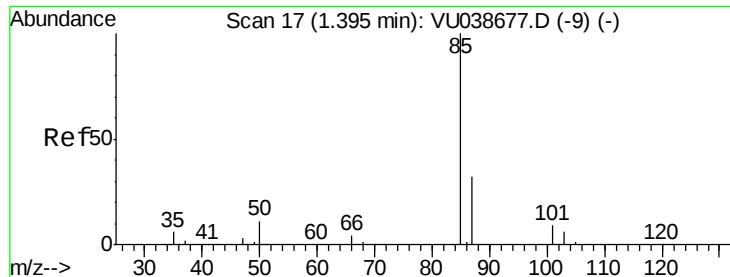
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060920\
 Data File : VU038701.D
 Acq On : 09 Jun 2020 04:48
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 Quant Title : VOC Analysis
 QLast Update : Tue Jun 09 06:12:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	108076	54.534	uq/L	99
25) Chloroform	5.12	83	360277	52.488	uq/L	99
27) 1,2-Dichloroethane	5.83	62	313785	55.260	uq/L	99
29) Cyclohexane	5.42	56	219173	38.922	uq/L	99
30) 1,1,1-Trichloroethane	5.35	97	279748	48.372	uq/L	99
31) Carbon tetrachloride	5.56	117	212596	44.406	uq/L	99
33) Benzene	5.81	78	746522	51.076	uq/L	100
34) Trichloroethene	6.57	95	177634	47.786	uq/L	97
35) Methylcyclohexane	6.79	83	212699	37.940	uq/L	99
37) 1,2-Dichloropropane	6.82	63	207126	54.383	uq/L	100
38) Bromodichloromethane	7.13	83	269769	55.252	uq/L	100
39) cis-1,3-Dichloropropene	7.63	75	309932	52.765	uq/L	97
40) 4-Methyl-2-pentanone	7.82	43	704316	118.288	uq/L	100
42) Toluene	7.99	91	740847	48.477	uq/L	99
44) trans-1,3-Dichloropropene	8.23	75	297764	52.924	uq/L	98
45) 1,1,2-Trichloroethane	8.42	97	202248	55.171	uq/L	97
46) Tetrachloroethene	8.57	164	113127	42.183	uq/L	99
48) 2-Hexanone	8.70	43	598121	121.519	uq/L	100
49) Dibromochloromethane	8.83	129	213339	56.666	uq/L	95
50) 1,2-Dibromoethane	8.94	107	220461	55.952	uq/L	98
51) Chlorobenzene	9.47	112	470804	47.953	uq/L	99
52) Ethylbenzene	9.59	91	753498	44.675	uq/L	100
53) m,p-Xylene	9.71	106	293914	45.396	uq/L	100
54) o-xylene	10.11	106	296029	47.099	uq/L	99
55) Styrene	10.13	104	530599	48.697	uq/L	99
56) Isopropylbenzene	10.50	105	703780	42.903	uq/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	346515	55.542	uq/L	99
59) 1,2,3-Trichloropropane	10.84	75	304991	57.111	uq/L	99
61) Bromoform	10.31	173	151425	56.946	uq/L	100
62) 1,3-Dichlorobenzene	11.76	146	354717	47.405	uq/L	98
63) 1,4-Dichlorobenzene	11.85	146	359603	47.460	uq/L	99
65) 1,2-Dichlorobenzene	12.22	146	369716	49.643	uq/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	93848	60.807	uq/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	247829	46.105	uq/L	100
68) 1,2,4-trichlorobenzene	13.86	180	246972	48.737	uq/L	99
69) Naphthalene	14.11	128	1066826	59.551	uq/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	267277	52.572	uq/L	100

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



#2

Dichlorodifluoromethane

Concen: 41.075 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

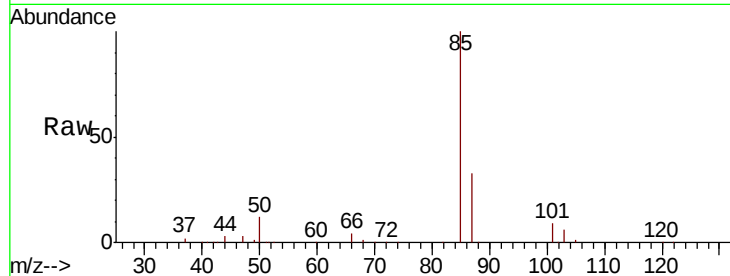
VSTD05044

Tot Ion: 85 Resp: 169976

Ion Ratio Lower Upper

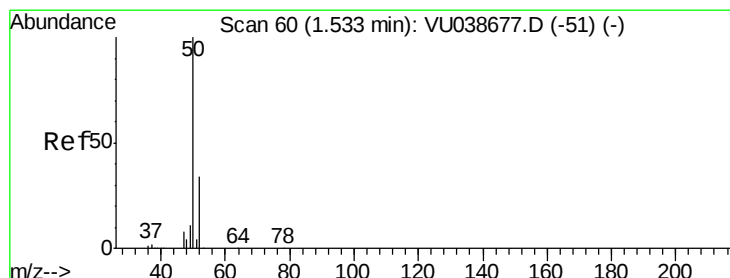
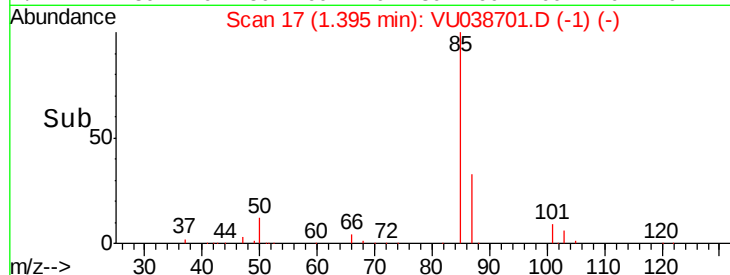
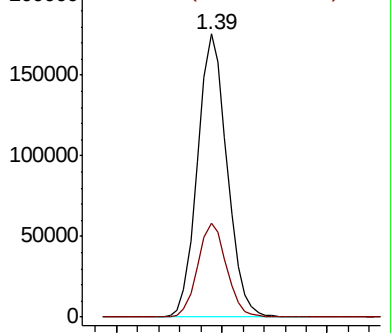
85 100

87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 50.352 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038701.D

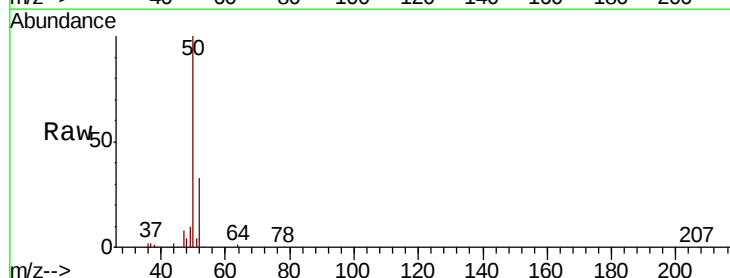
Acq: 09 Jun 2020 04:48

Tgt Ion: 50 Resp: 201006

Ion Ratio Lower Upper

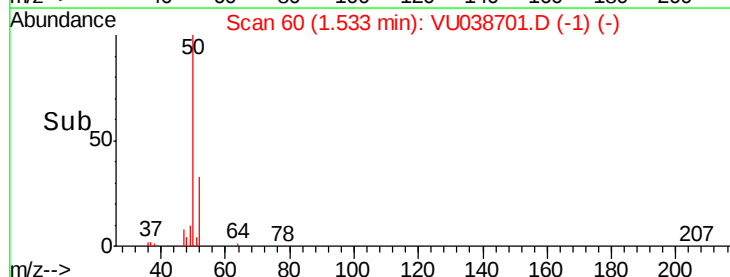
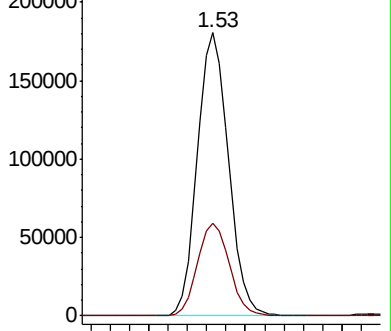
50 100

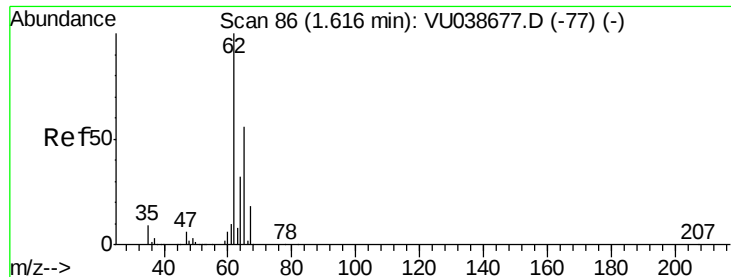
52 32.7 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 47.404 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

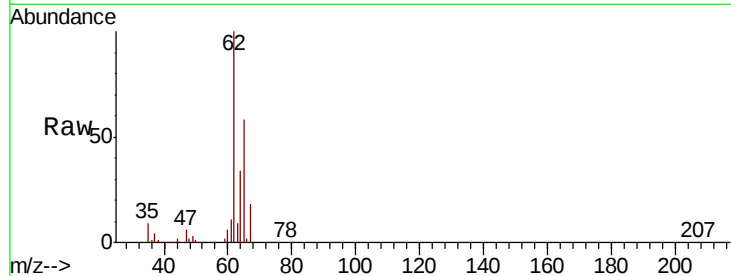
VSTD05044

Tot Ion: 62 Resp: 198189

Ion Ratio Lower Upper

62 100

64 33.8 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU038677.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU038677.D (-77) (-)

1.62

200000

150000

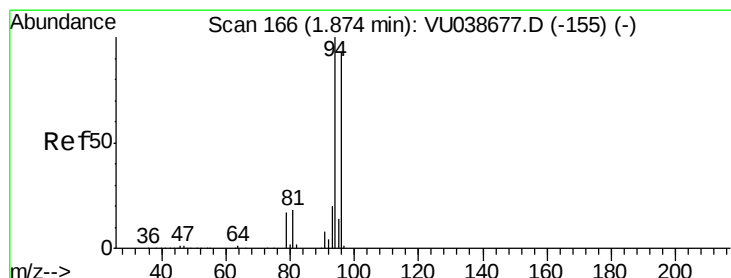
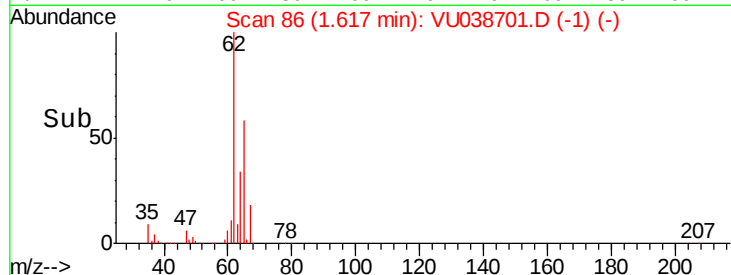
100000

50000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 54.034 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU038701.D

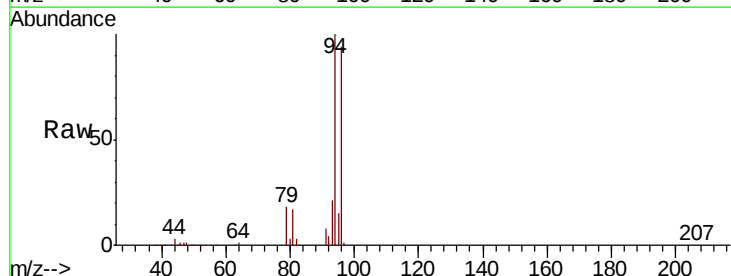
Acq: 09 Jun 2020 04:48

Tgt Ion: 94 Resp: 117656

Ion Ratio Lower Upper

94 100

96 93.9 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU038677.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU038677.D (-155) (-)

1.87

100000

80000

60000

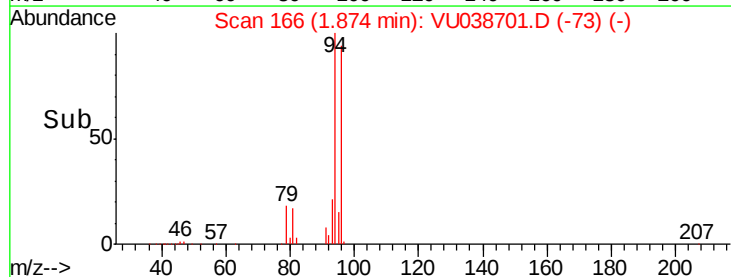
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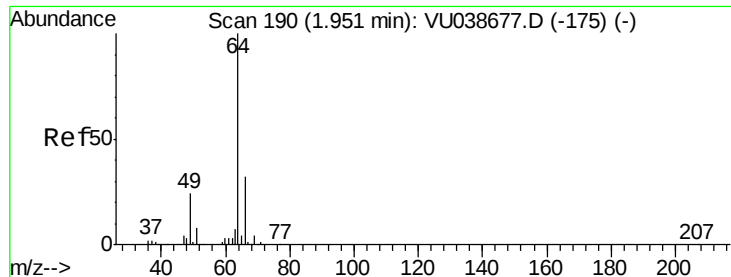
20000

0

1.80 1.85 1.90

Time-->





#8

Chloroethane

Concen: 51.831 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

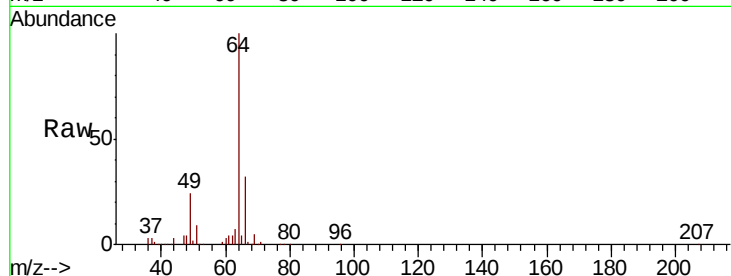
VSTD05044

Tot Ion: 64 Resp: 126767

Ion Ratio Lower Upper

64 100

66 32.0 21.6 40.2



Abundance Ion 64.00 (63.70 to 64.70): VU038677.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU038677.D (-175) (-)

1.95

100000

80000

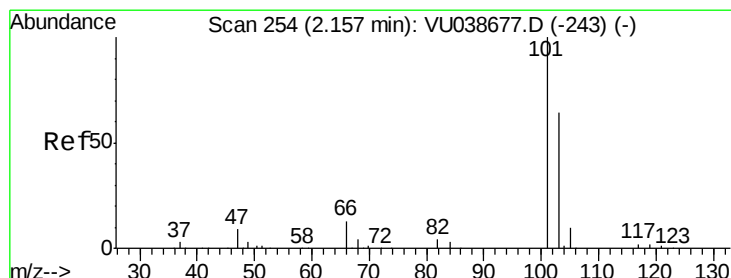
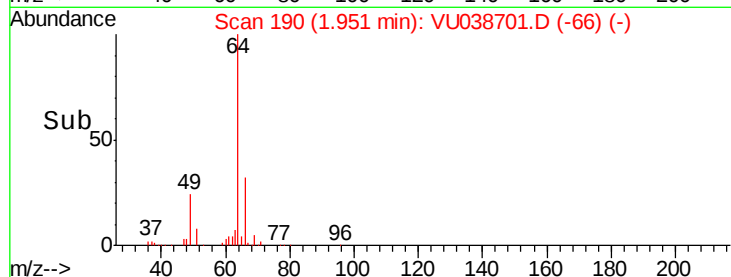
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 42.474 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU038701.D

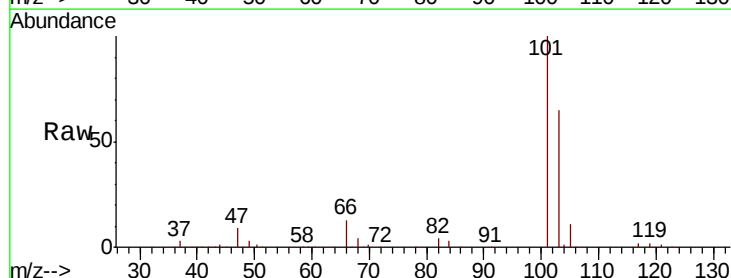
Acq: 09 Jun 2020 04:48

Tgt Ion: 101 Resp: 244549

Ion Ratio Lower Upper

101 100

103 64.2 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU038677.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU038677.D (-243) (-)

2.16

200000

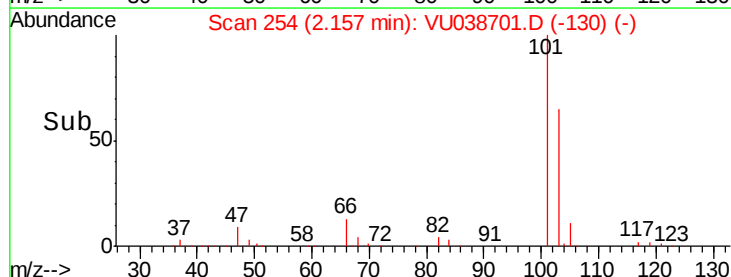
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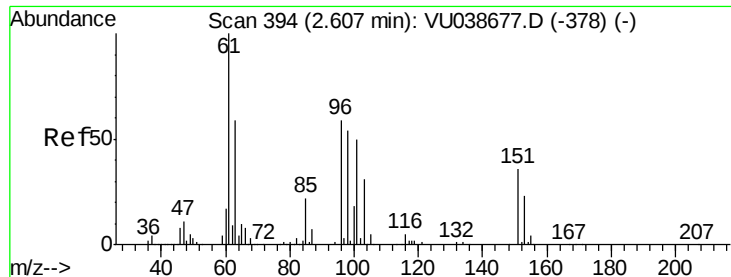
100000

50000

0

Time-->





#10

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

Concen: 38.294 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

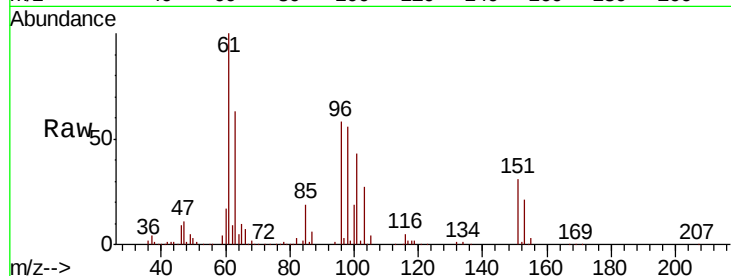
Tot Ion:101 Resp: 128516

Ion Ratio Lower Upper

101 100

85 44.2 35.1 52.7

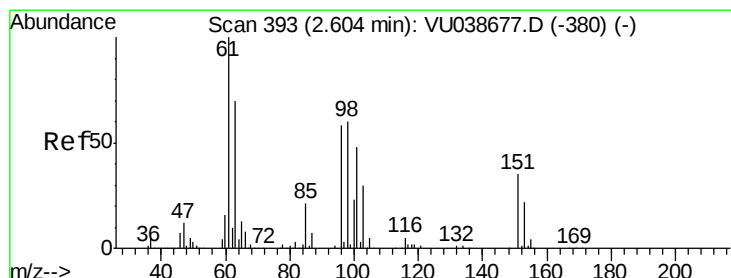
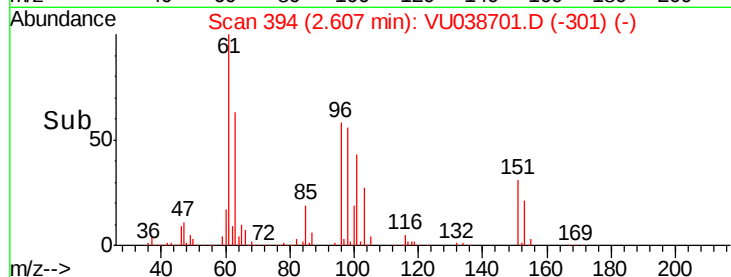
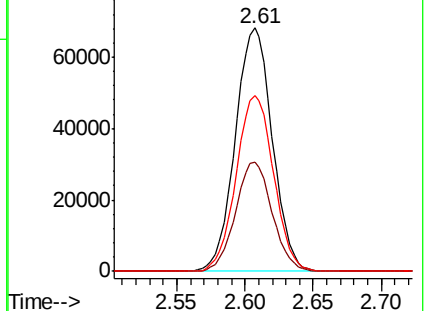
151 72.9 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.885 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

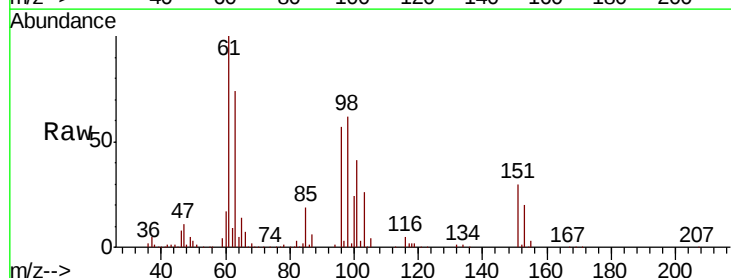
Tgt Ion: 96 Resp: 151772

Ion Ratio Lower Upper

96 100

61 176.3 120.0 223.0

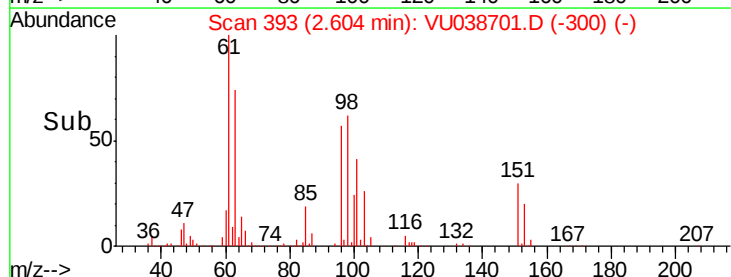
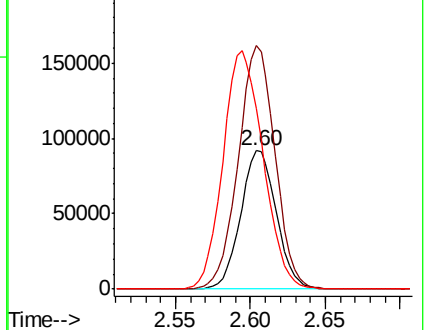
63 130.8 75.8 140.8

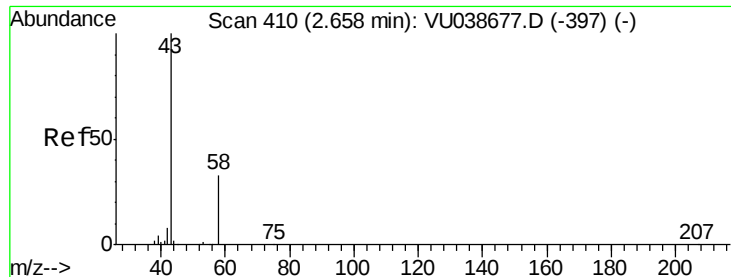


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 110.605 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

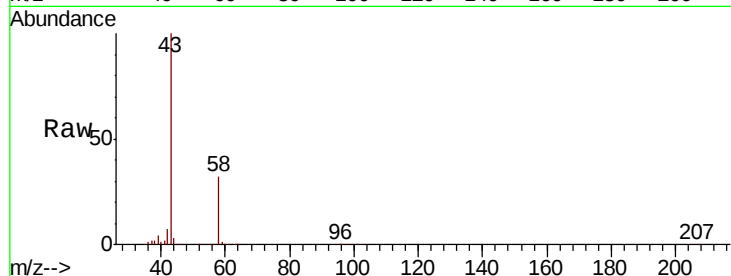
VSTD05044

Tot Ion: 43 Resp: 253162

Ion Ratio Lower Upper

43 100

58 31.7 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VU038677.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU038677.D (-397) (-)

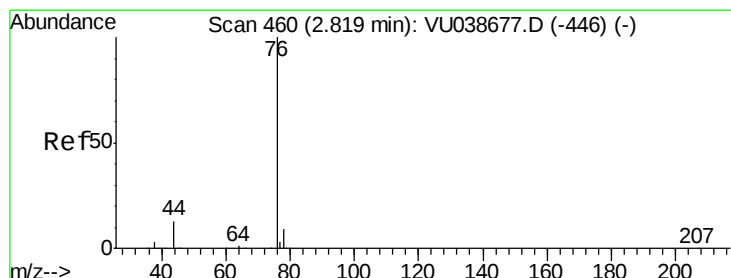
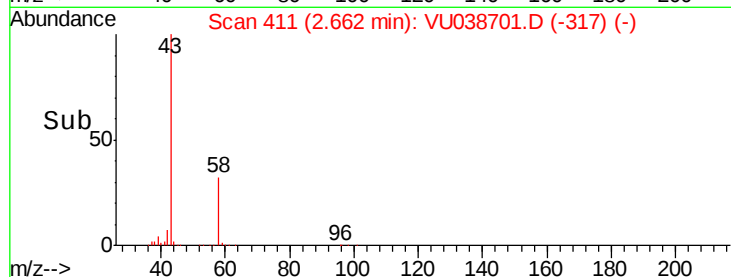
2.66

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 45.036 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038701.D

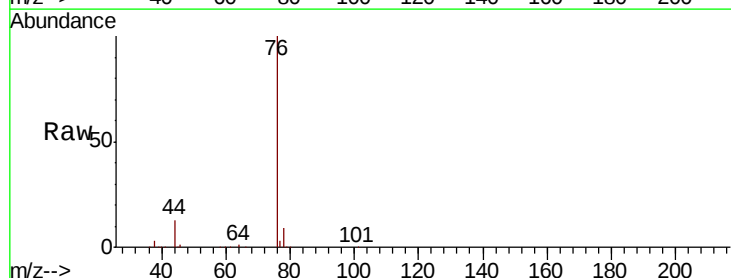
Acq: 09 Jun 2020 04:48

Tgt Ion: 76 Resp: 482379

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU038677.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038677.D (-446) (-)

2.82

300000

250000

200000

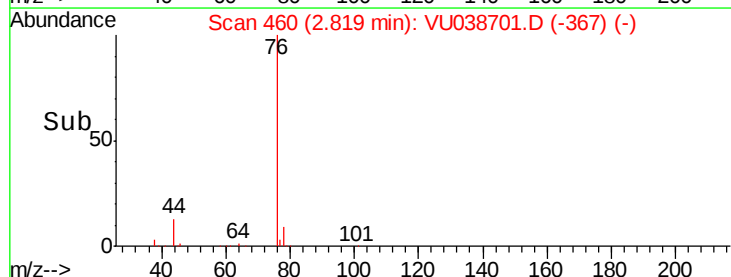
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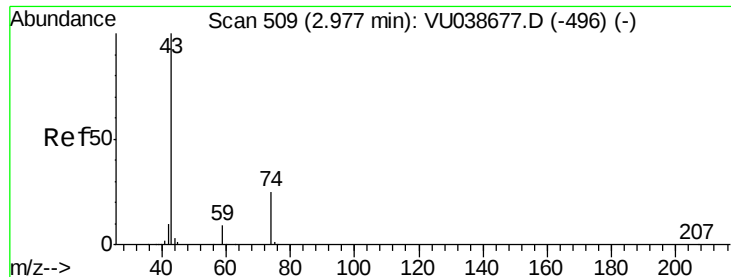
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50000

0

Time-->

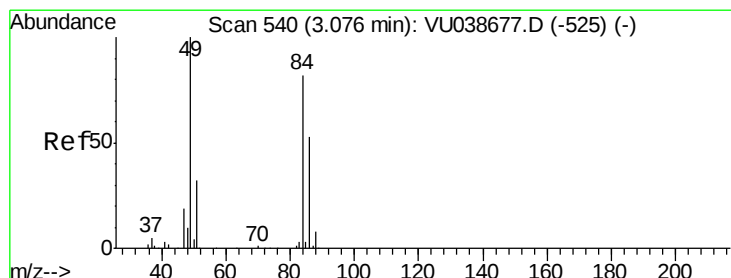
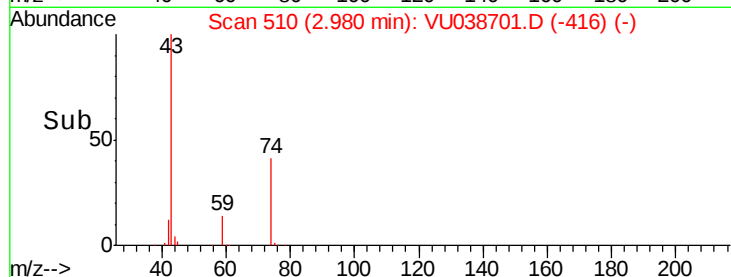
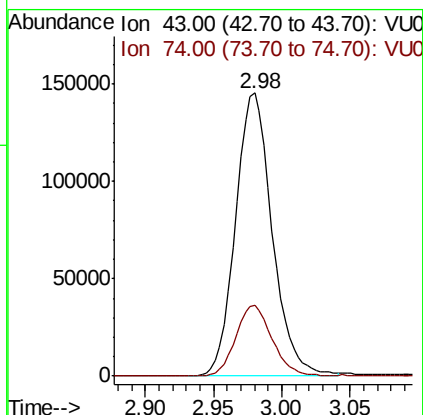
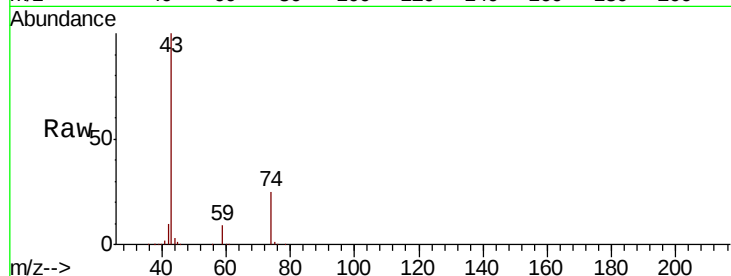




#15
Methyl Acetate
Concen: 56.649 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

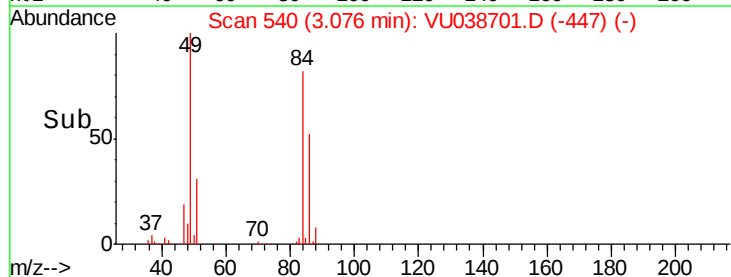
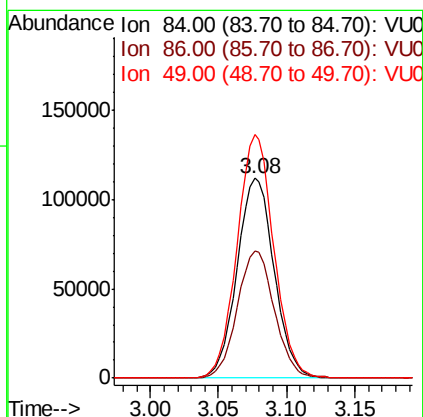
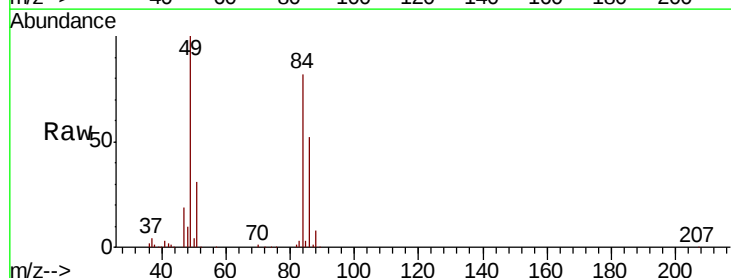
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

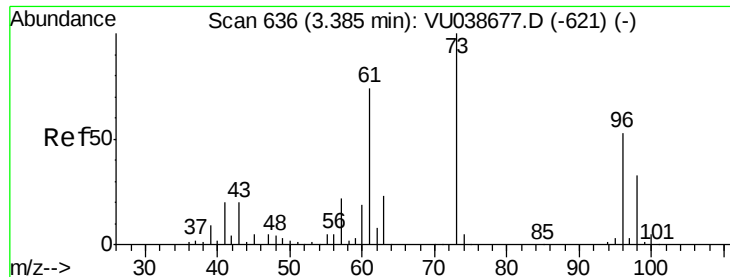
Tot Ion: 43 Resp: 270965
Ion Ratio Lower Upper
43 100
74 24.8 19.7 29.5



#16
Methylene chloride
Concen: 54.030 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion: 84 Resp: 212185
Ion Ratio Lower Upper
84 100
86 63.8 44.7 83.1
49 121.9 84.5 156.9

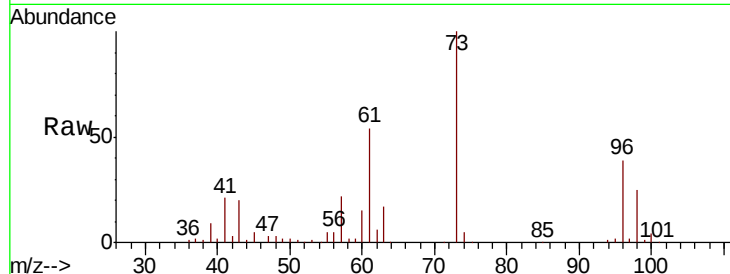




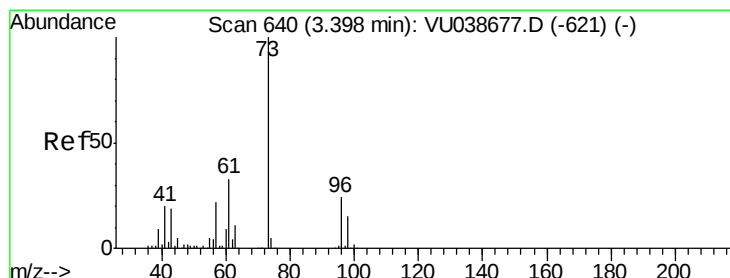
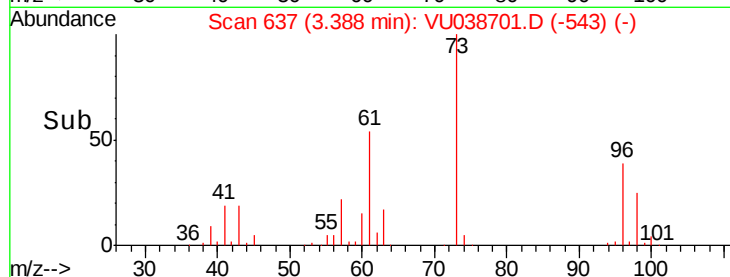
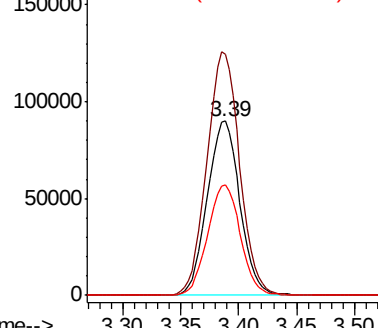
#17
trans-1,2-Dichloroethene
Concen: 48.404 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tot Ion: 96 Resp: 175202
Ion Ratio Lower Upper
96 100
61 138.6 98.2 182.4
98 63.2 44.3 82.3

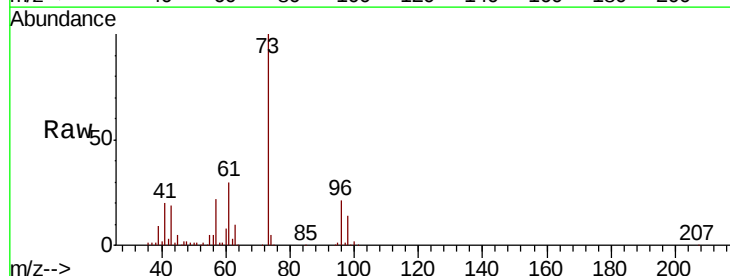


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

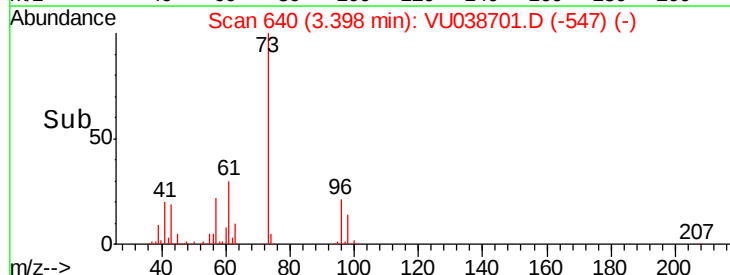
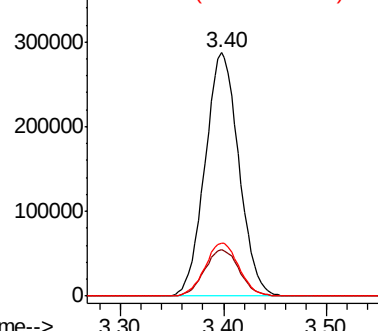


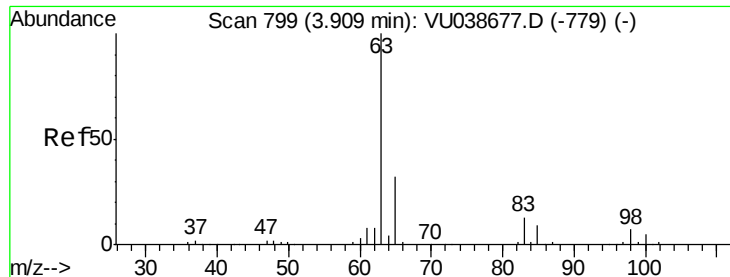
#18
Methyl tert-butyl Ether
Concen: 55.978 ug/L
RT: 3.40 min Scan# 640
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion: 73 Resp: 655111
Ion Ratio Lower Upper
73 100
43 19.7 15.6 23.4
57 21.9 17.2 25.8



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: 51.386 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

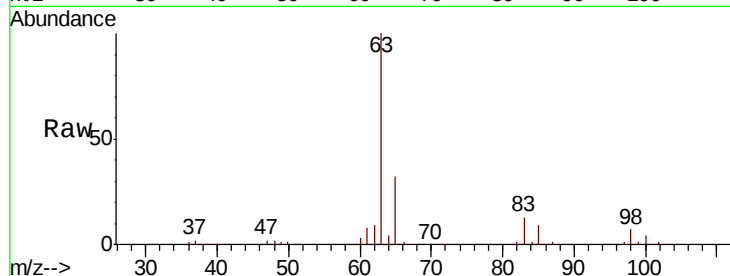
Tot Ion: 63 Resp: 352432

Ion Ratio Lower Upper

63 100

65 31.9 23.0 42.8

83 13.4 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU038677.D (-779) (-)

Ion 65.00 (64.70 to 65.70): VU038677.D (-779) (-)

Ion 83.00 (82.70 to 83.70): VU038677.D (-779) (-)

3.91

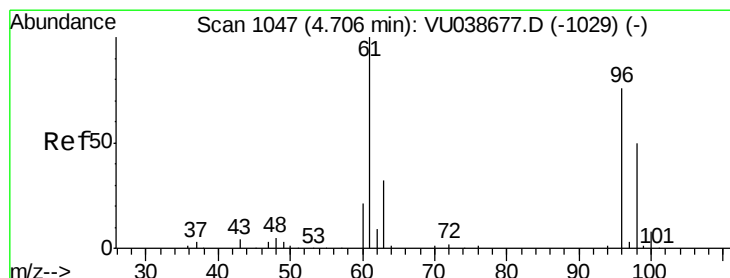
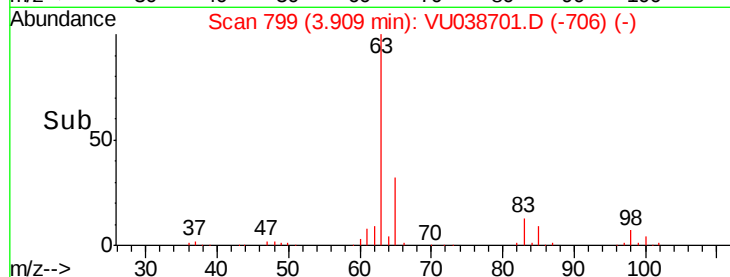
150000

100000

50000

0

Time--> 3.80 3.85 3.90 3.95 4.00



#20

cis-1,2-Dichloroethene

Concen: 50.993 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

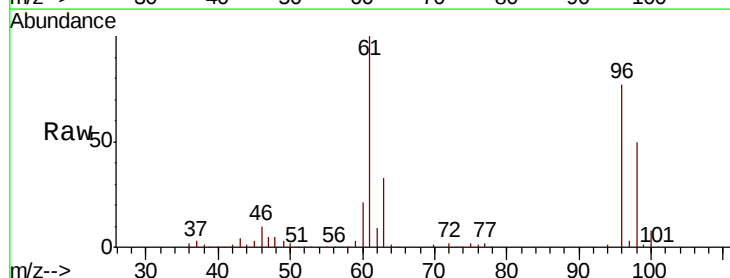
Tgt Ion: 96 Resp: 204031

Ion Ratio Lower Upper

96 100

61 129.7 89.5 166.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038677.D (-1029) (-)

Ion 61.00 (60.70 to 61.70): VU038677.D (-1029) (-)

Ion 68.00 (67.70 to 68.70): VU038677.D (-1029) (-)

4.71

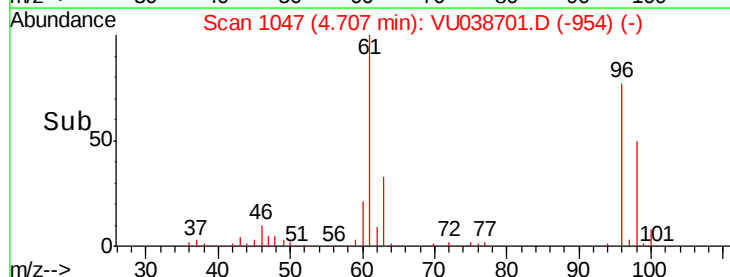
150000

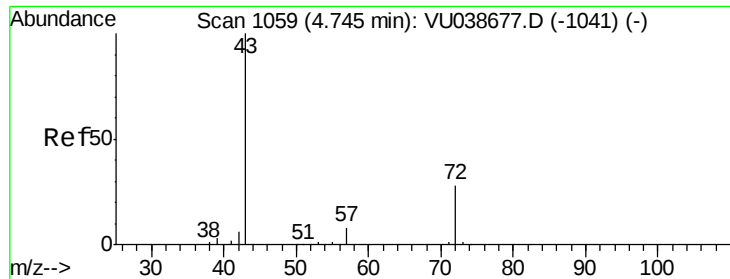
100000

50000

0

Time--> 4.60 4.65 4.70 4.75 4.80





#22

2-Butanone

Concen: 116.430 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

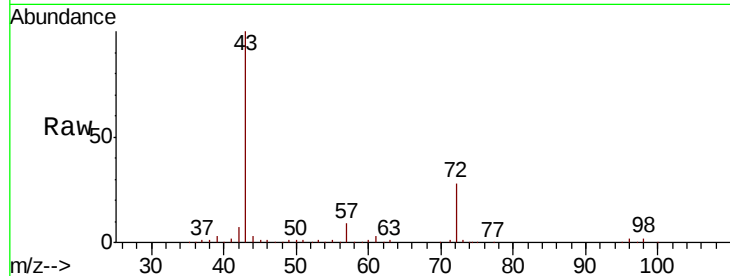
VSTD05044

Tot Ion: 43 Resp: 408688

Ion Ratio Lower Upper

43 100

72 28.2 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU038677.D (-1041) (-)

Ion 72.00 (71.70 to 72.70): VU038677.D (-1041) (-)

4.75

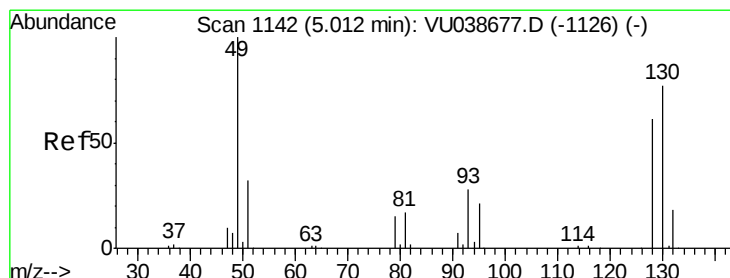
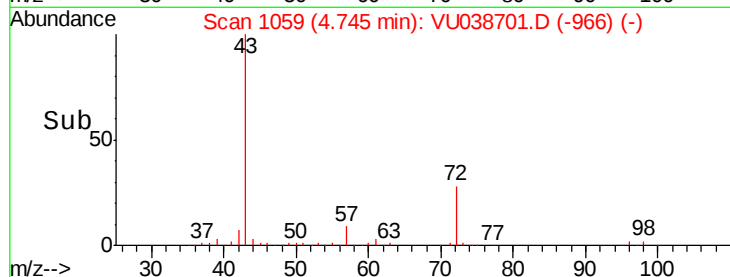
150000

100000

50000

0

Time--> 4.60 4.70 4.80 4.90



#23

Bromochloromethane

Concen: 54.534 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Tgt Ion: 128 Resp: 108076

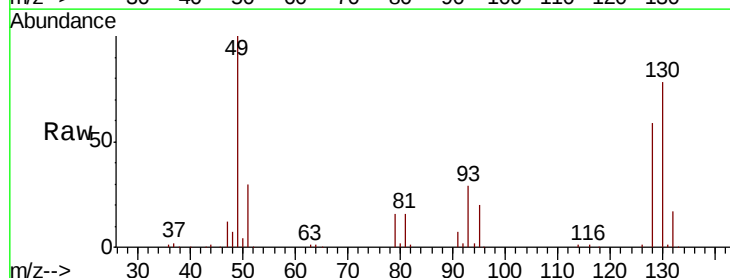
Ion Ratio Lower Upper

128 100

49 170.9 118.6 220.2

130 132.6 92.5 171.7

51 52.1 43.1 64.7



Abundance Ion 128.00 (127.70 to 128.70): VU038677.D (-1126) (-)

Ion 49.00 (48.70 to 49.70): VU038677.D (-1126) (-)

Ion 130.00 (129.70 to 130.70): VU038677.D (-1126) (-)

Ion 51.00 (50.70 to 51.70): VU038677.D (-1126) (-)

5.01

120000

100000

80000

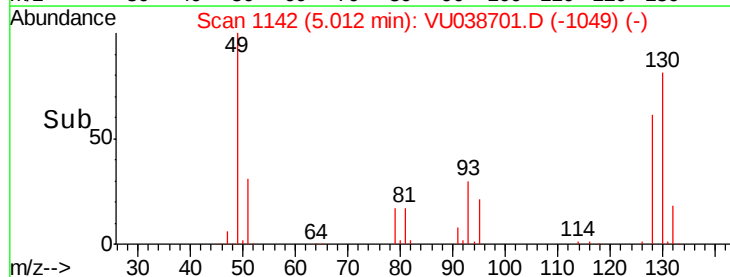
60000

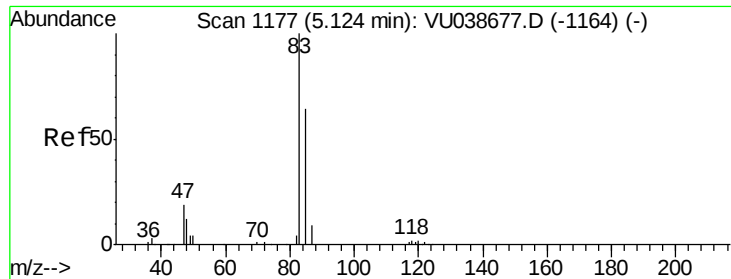
40000

20000

0

Time--> 4.95 5.00 5.05 5.10

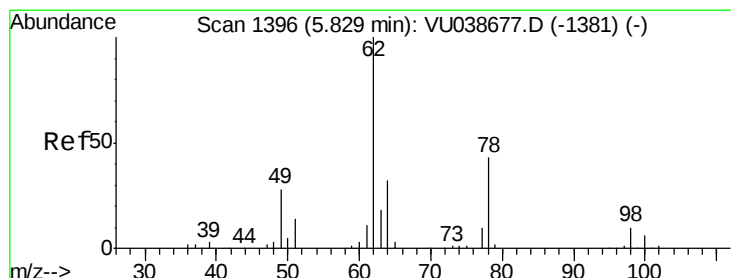
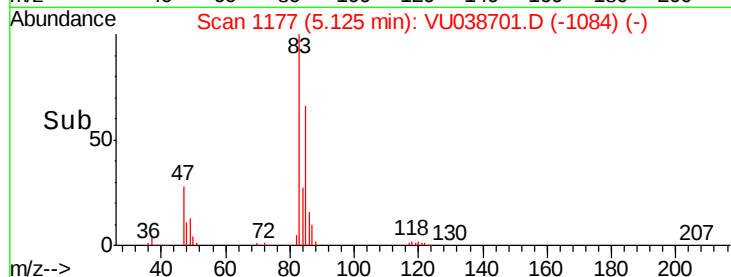
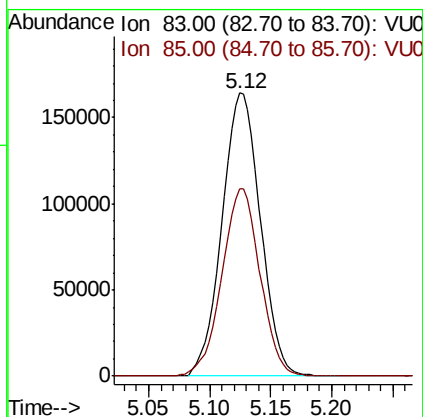
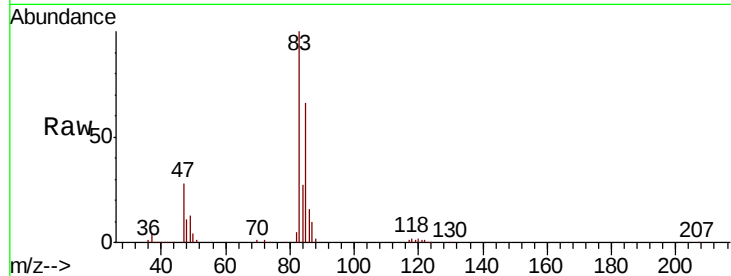




#25
Chloroform
Concen: 52.488 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

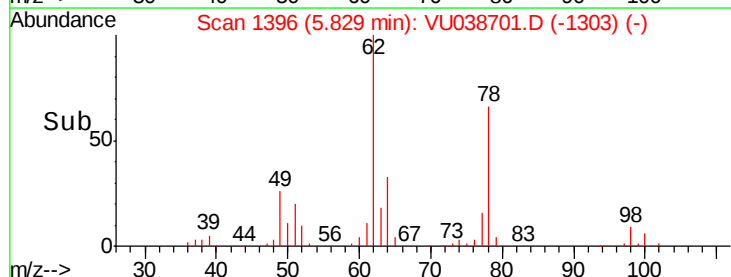
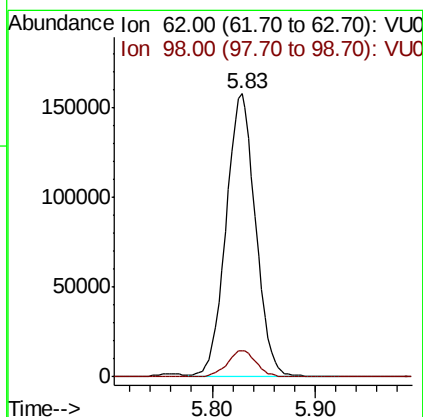
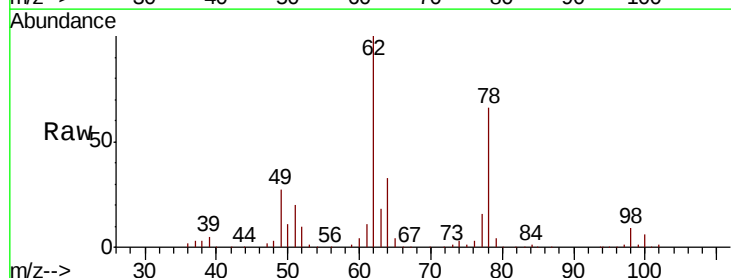
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

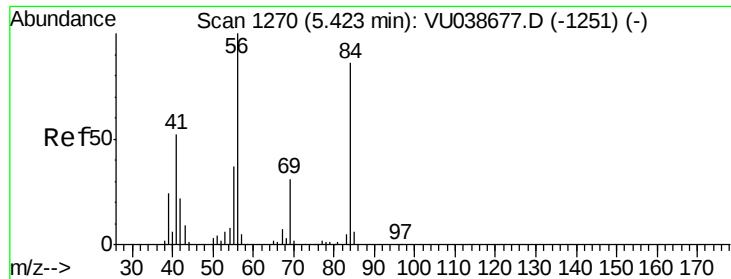
Tot Ion: 83 Resp: 360277
Ion Ratio Lower Upper
83 100
85 66.1 47.0 87.4



#27
1,2-Dichloroethane
Concen: 55.260 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion: 62 Resp: 313785
Ion Ratio Lower Upper
62 100
98 9.3 7.8 11.6

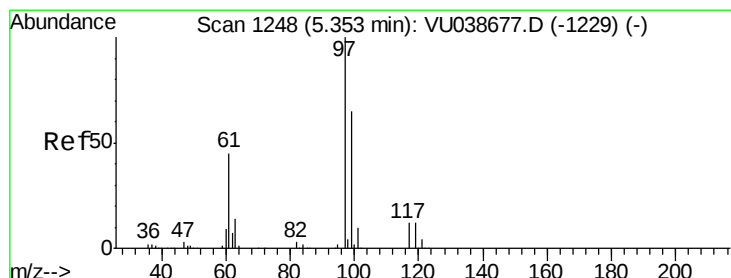
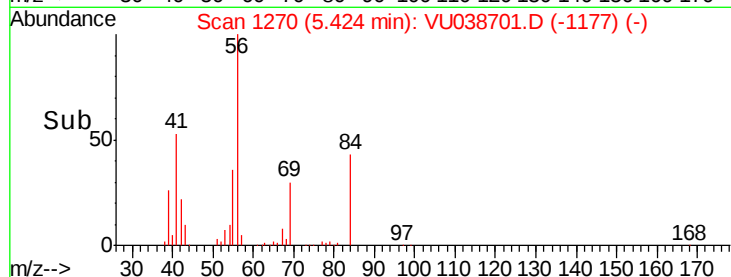
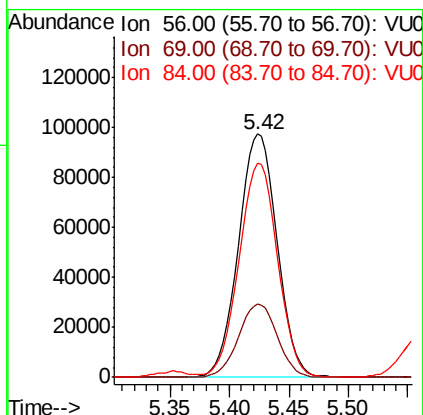
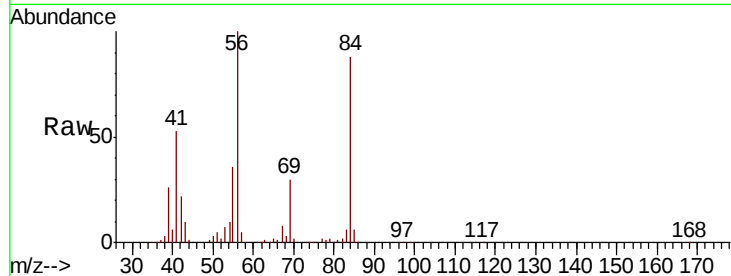




#29
Cyclohexane
Concen: 38.922 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

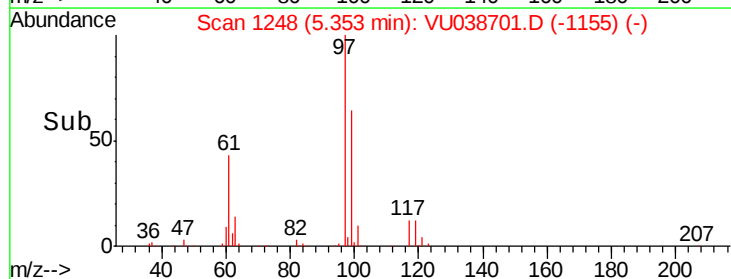
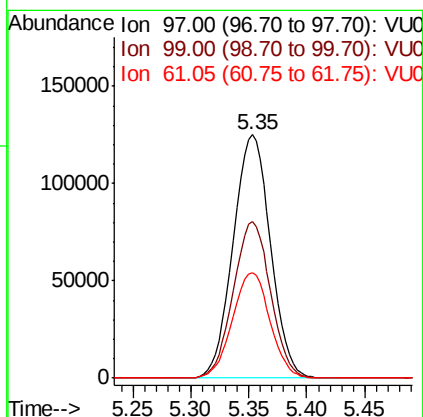
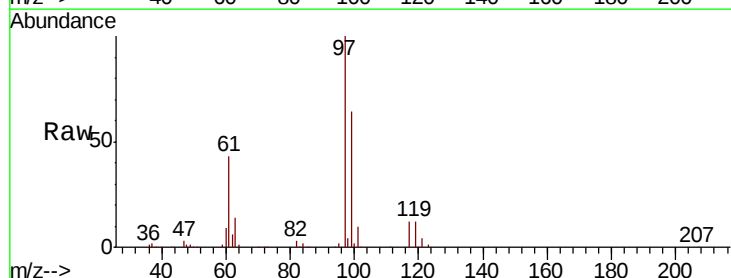
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

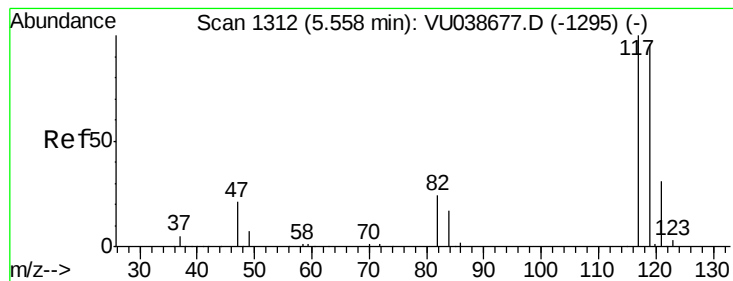
Tot Ion: 56 Resp: 219173
Ion Ratio Lower Upper
56 100
69 30.3 25.1 37.7
84 88.1 70.5 105.7



#30
1,1,1-Trichloroethane
Concen: 48.372 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion: 97 Resp: 279748
Ion Ratio Lower Upper
97 100
99 64.0 51.6 77.4
61 43.7 35.2 52.8





#31

Carbon tetrachloride

Concen: 44.406 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

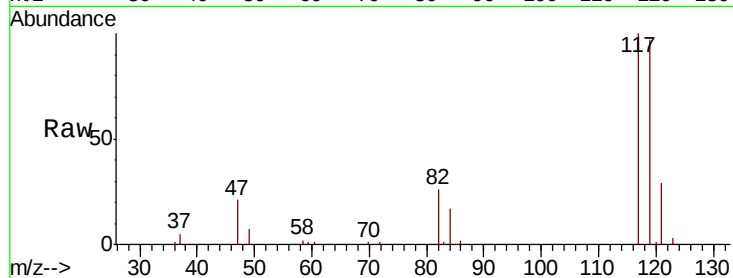
VSTD05044

Tot Ion:117 Resp: 212596

Ion Ratio Lower Upper

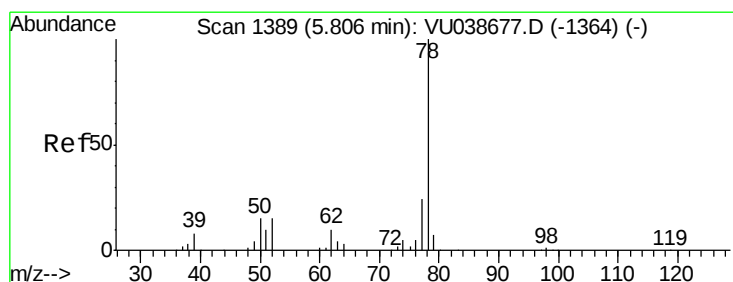
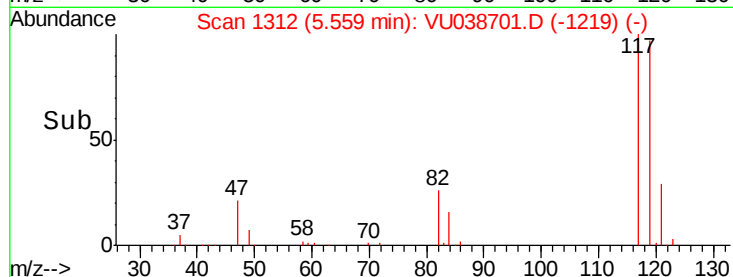
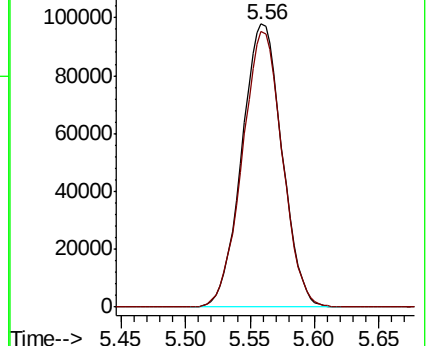
117 100

119 96.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.076 ug/L

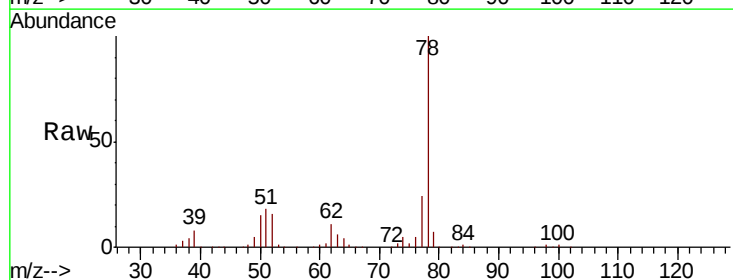
RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

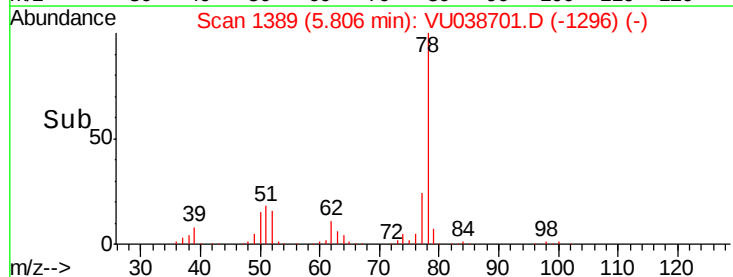
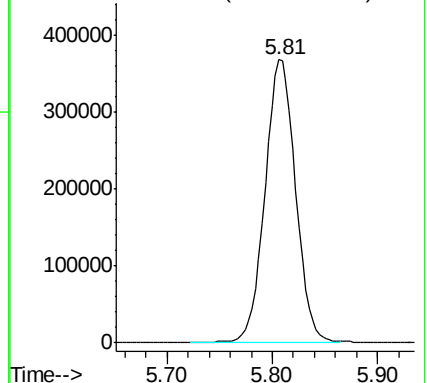
Lab File: VU038701.D

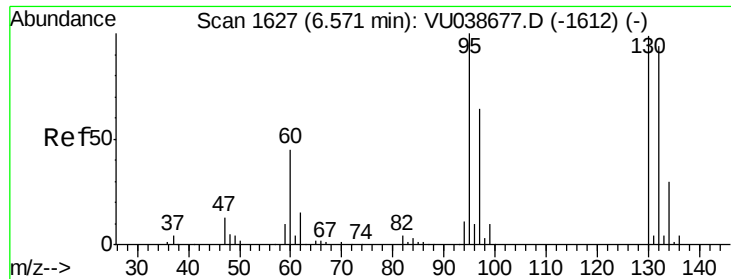
Acq: 09 Jun 2020 04:48

Tgt Ion: 78 Resp: 746522



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.786 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tot Ion: 95 Resp: 177634

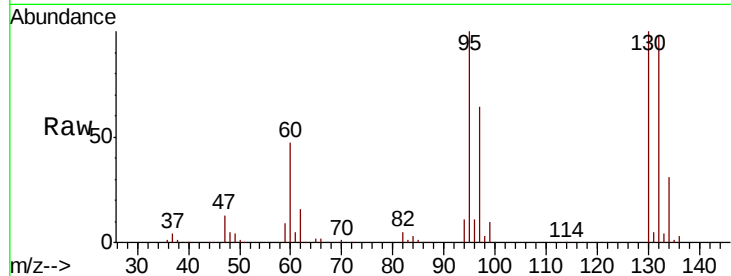
Ion Ratio Lower Upper

95 100

97 64.1 44.4 82.4

132 98.2 64.9 120.5

130 100.2 68.6 127.4



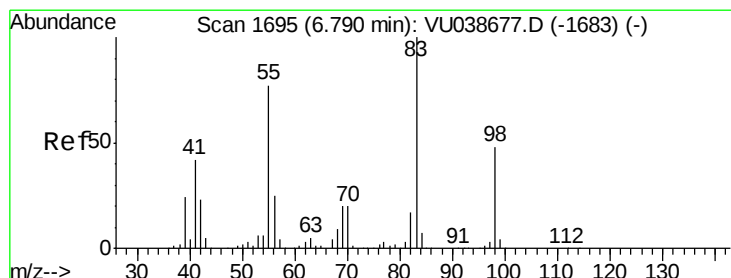
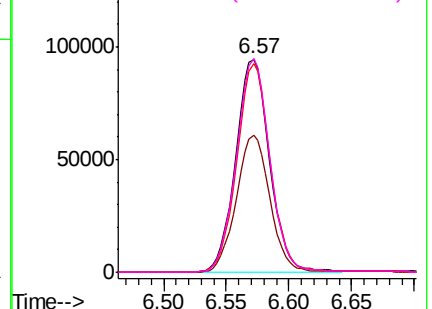
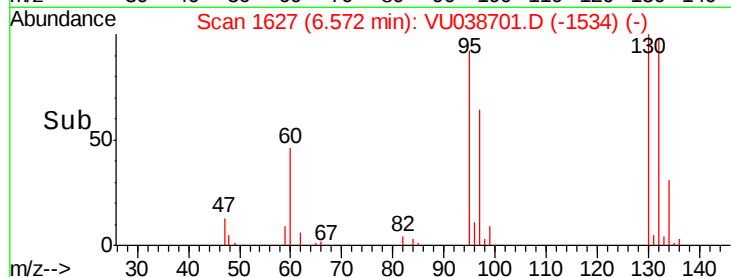
Abundance

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: 37.940 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

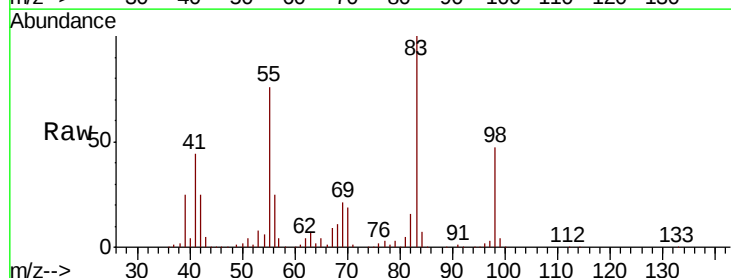
Tgt Ion: 83 Resp: 212699

Ion Ratio Lower Upper

83 100

55 78.1 63.2 94.8

98 48.3 38.4 57.6

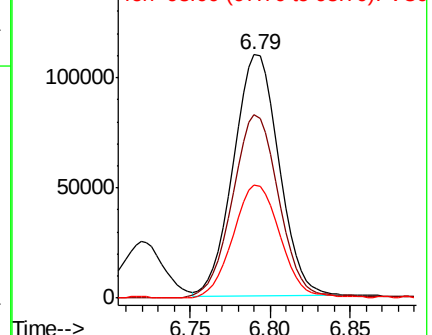
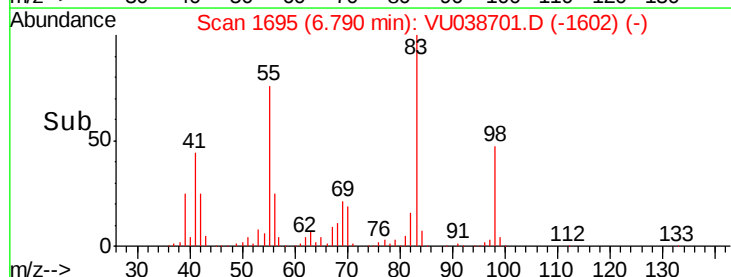


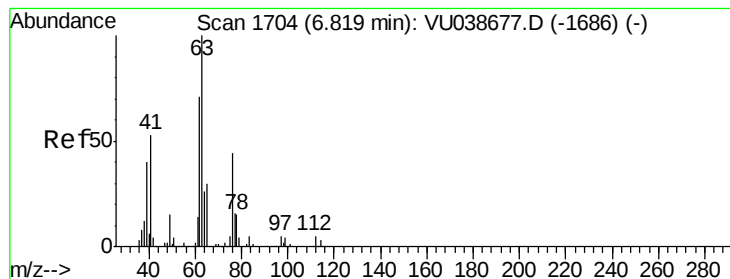
Abundance

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: 54.383 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

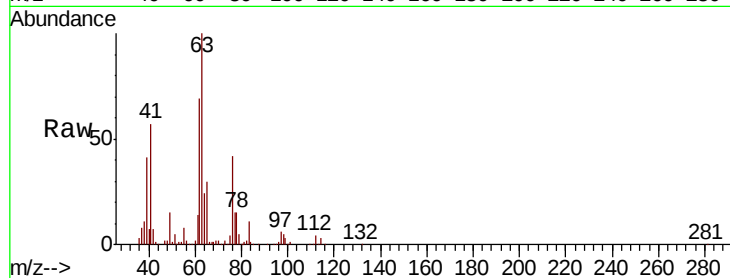
VSTD05044

Tot Ion: 63 Resp: 207126

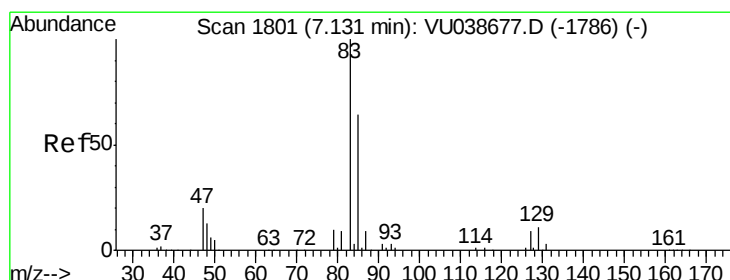
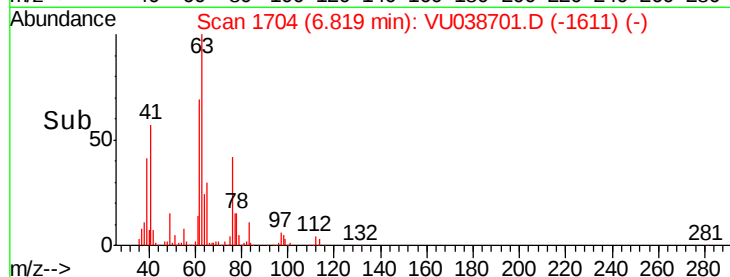
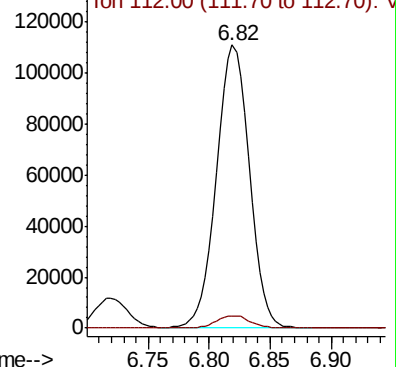
Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.2



Abundance Ion 63.00 (62.70 to 63.70): VU038677.D (-1686) (-)



#38

Bromodichloromethane

Concen: 55.252 ug/L

RT: 7.13 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

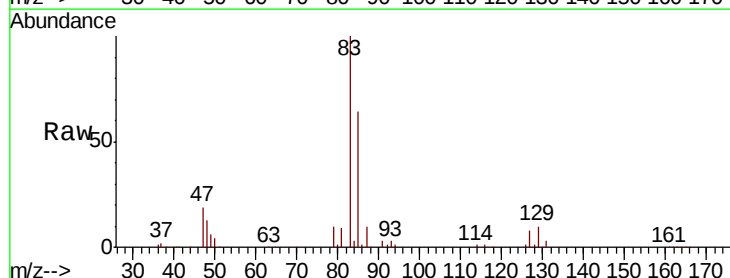
Tgt Ion: 83 Resp: 269769

Ion Ratio Lower Upper

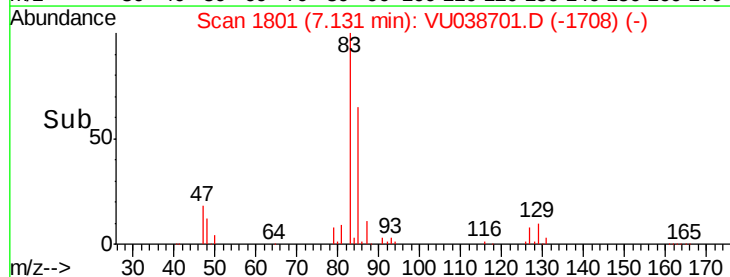
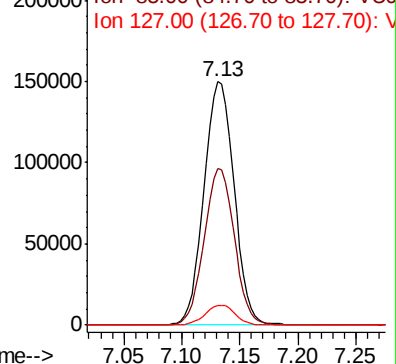
83 100

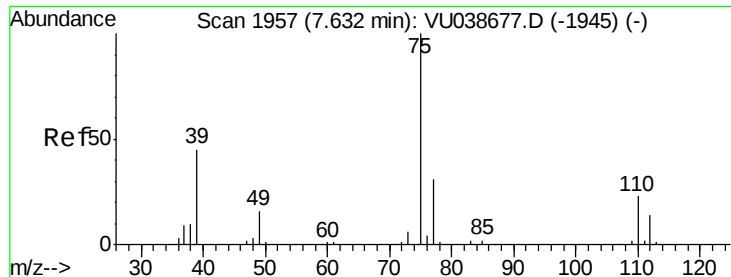
85 64.2 45.1 83.9

127 8.2 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU038677.D (-1786) (-)

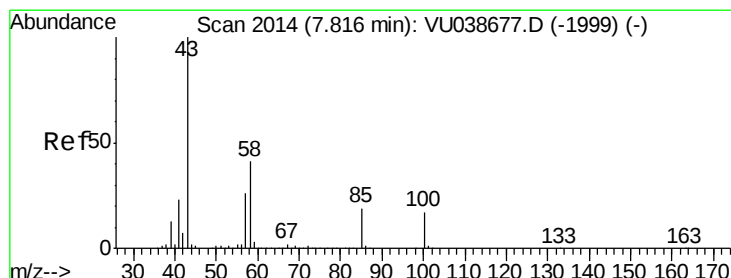
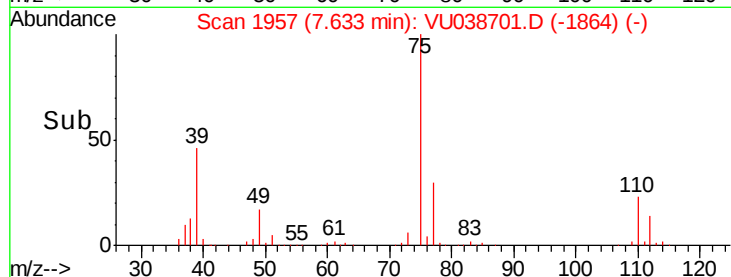
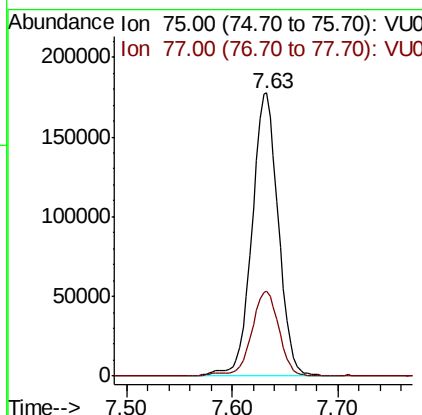
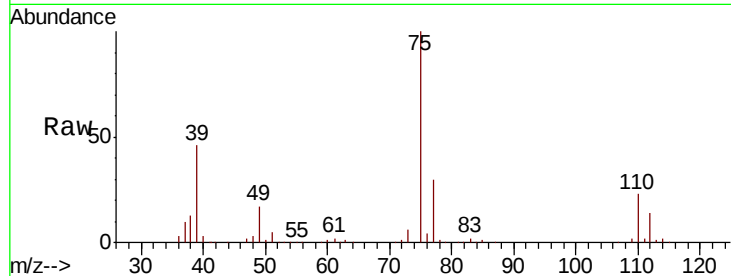




#39
 cis-1,3-Dichloropropene
 Concen: 52.765 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

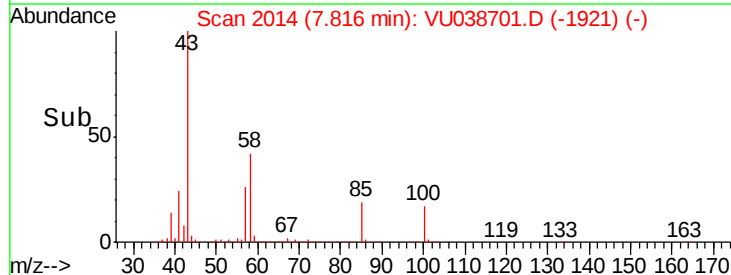
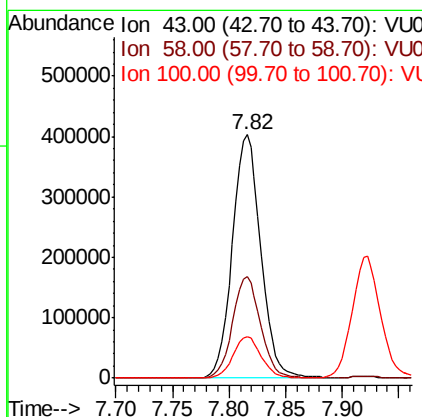
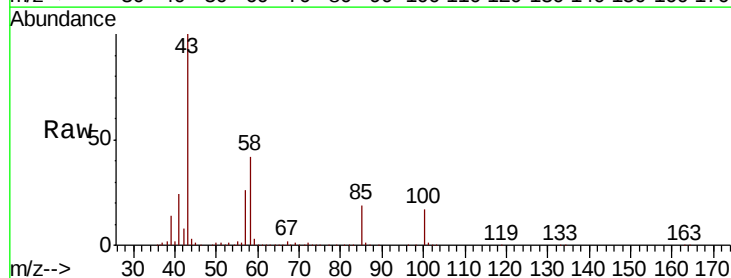
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

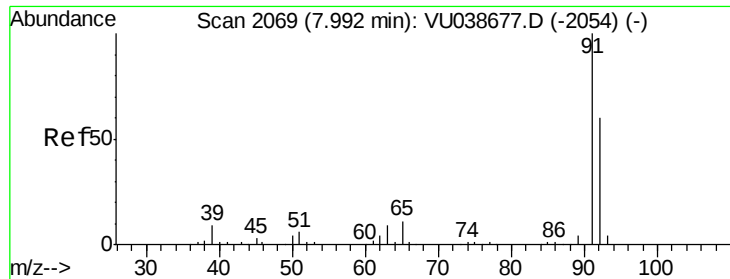
Tot Ion: 75 Resp: 309932
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 118.288 ug/L
 RT: 7.82 min Scan# 1414
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

Tgt Ion: 43 Resp: 704316
 Ion Ratio Lower Upper
 43 100
 58 41.2 33.0 49.4
 100 16.9 13.4 20.0





#42

Toluene

Concen: 48.477 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

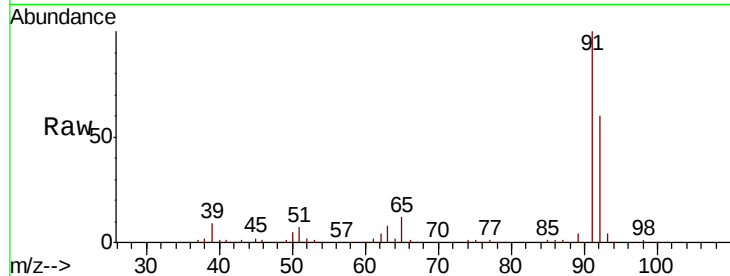
VSTD05044

Tot Ion: 91 Resp: 740847

Ion Ratio Lower Upper

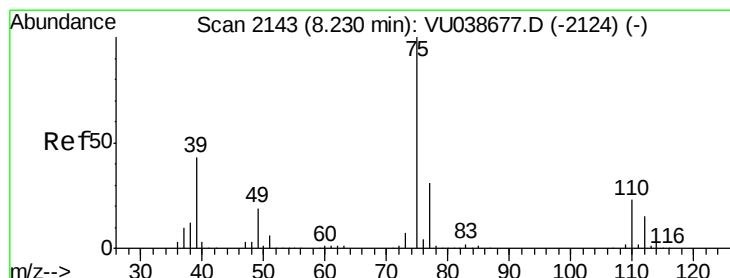
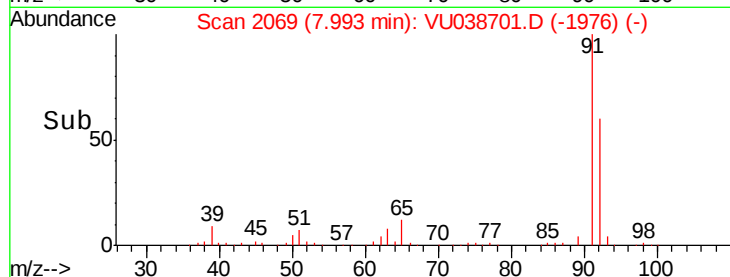
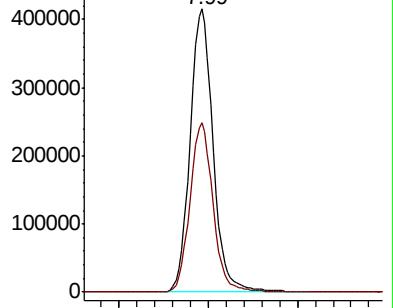
91 100

92 59.8 42.2 78.4



Abundance Ion 91.00 (90.70 to 91.70): VU038677.D (-2054) (-)

Ion 92.00 (91.70 to 92.70): VU038677.D (-2054) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.924 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU038701.D

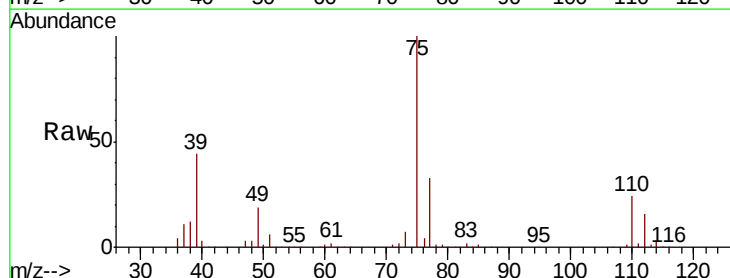
Acq: 09 Jun 2020 04:48

Tgt Ion: 75 Resp: 297764

Ion Ratio Lower Upper

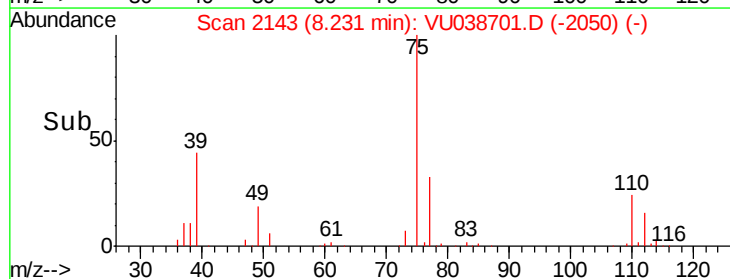
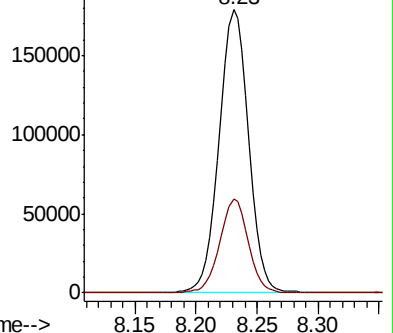
75 100

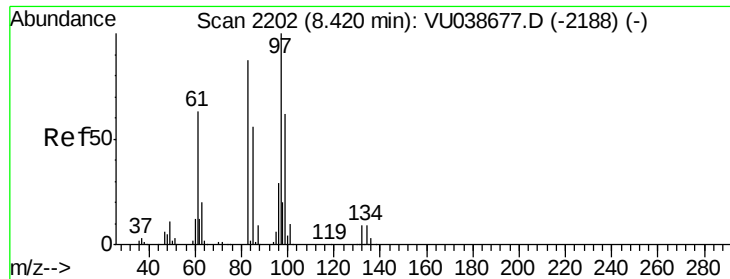
77 33.1 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU038677.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU038677.D (-2124) (-)

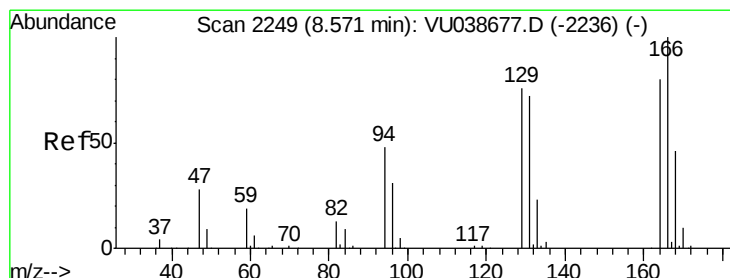
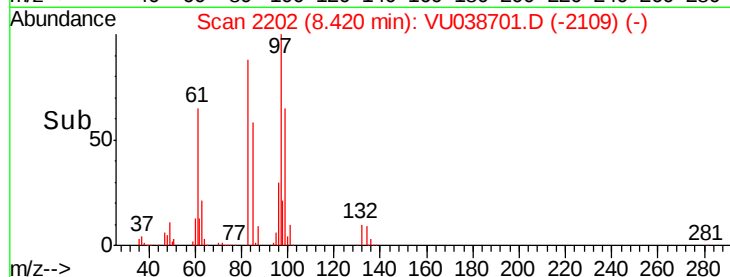
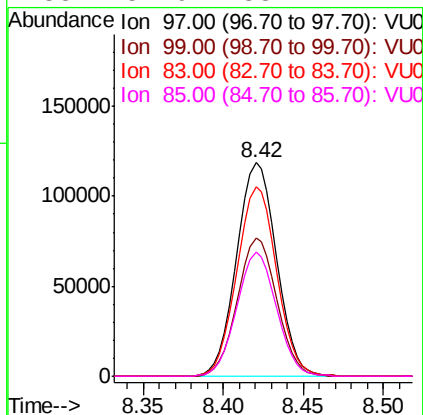
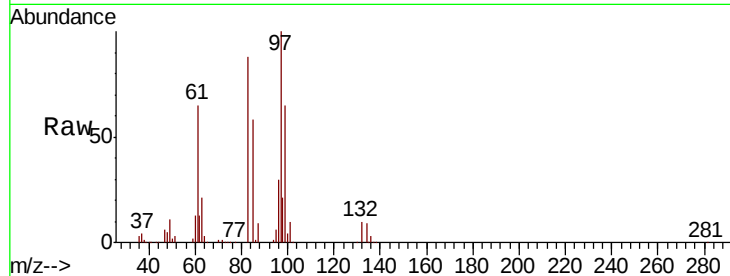




#45
 1,1,2-Trichloroethane
 Concen: 55.171 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

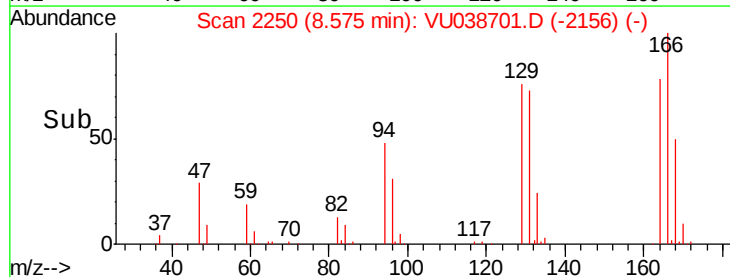
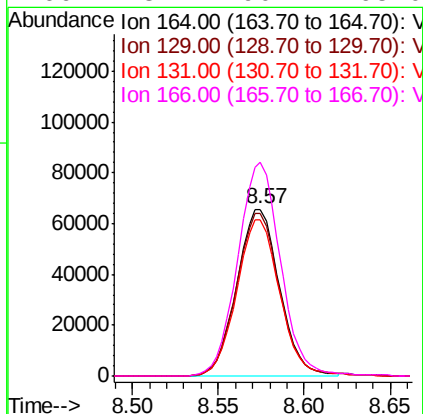
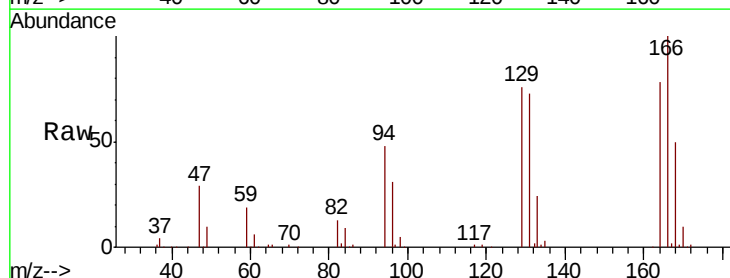
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

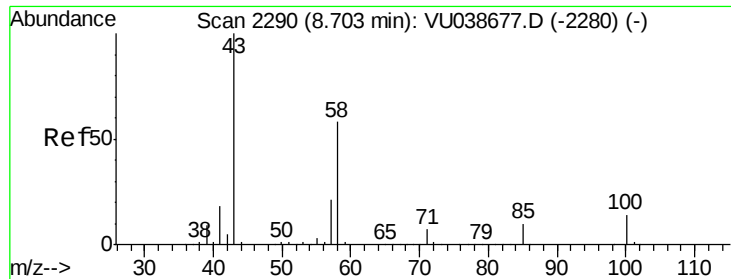
Tot Ion:	97	Resp:	202248
Ion	Ratio	Lower	Upper
97	100		
99	64.7	43.6	81.0
83	88.4	60.0	111.4
85	57.9	38.4	71.2



#46
 Tetrachloroethene
 Concen: 42.183 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

Tgt Ion:	164	Resp:	113127
Ion	Ratio	Lower	Upper
164	100		
129	97.8	67.2	124.8
131	93.9	65.5	121.6
166	128.2	90.4	168.0

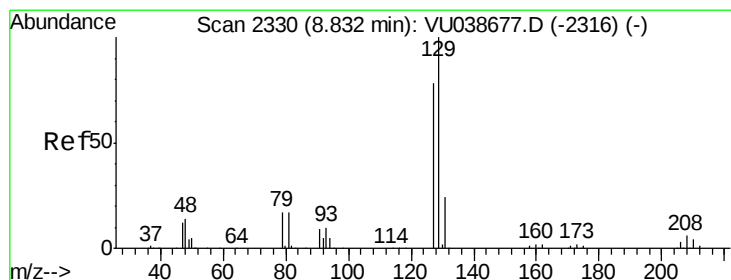
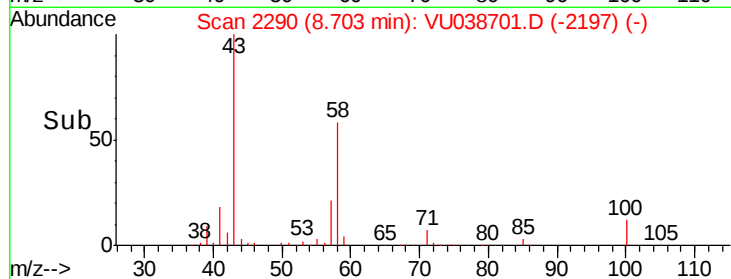
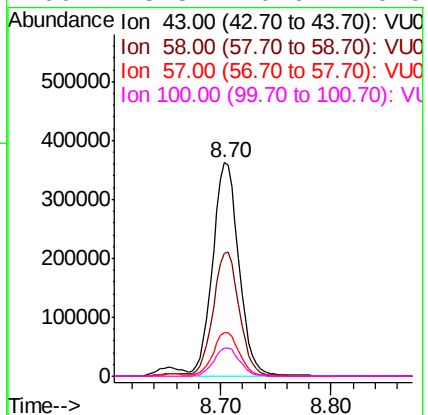
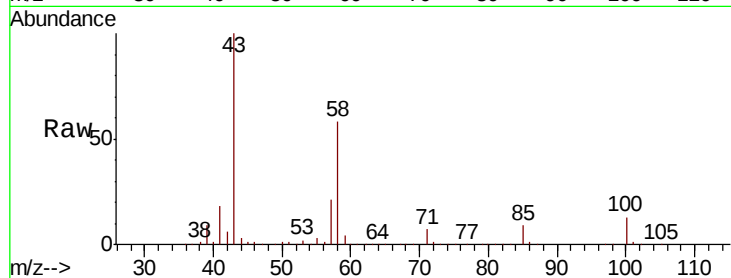




#48
2-Hexanone
Concen: 121.519 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

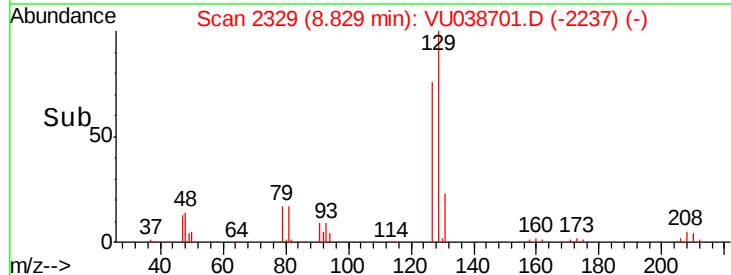
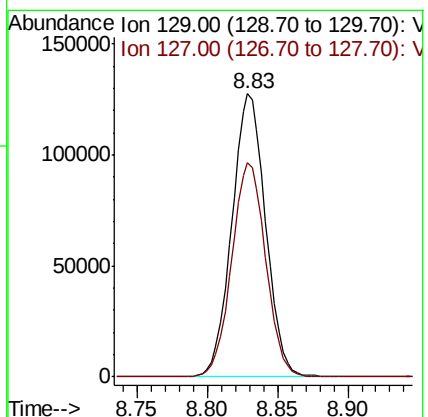
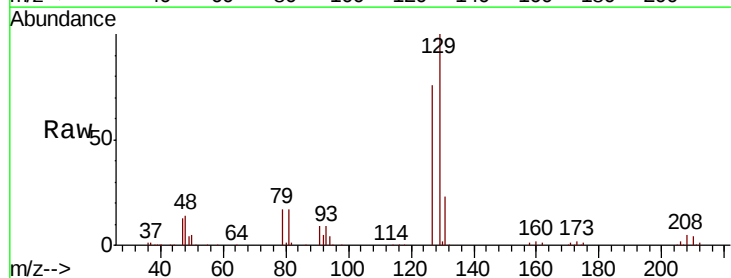
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

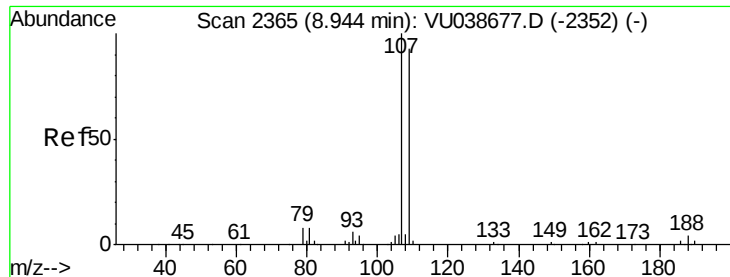
Tot Ion: 43 Resp: 598121
Ion Ratio Lower Upper
43 100
58 57.5 46.2 69.4
57 20.4 16.6 24.8
100 13.3 10.6 16.0



#49
Dibromochloromethane
Concen: 56.666 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion: 129 Resp: 213339
Ion Ratio Lower Upper
129 100
127 75.6 55.8 103.6

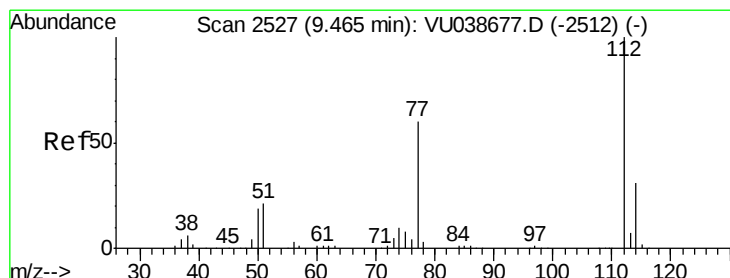
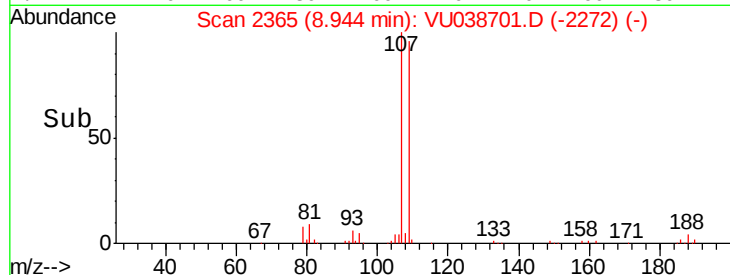
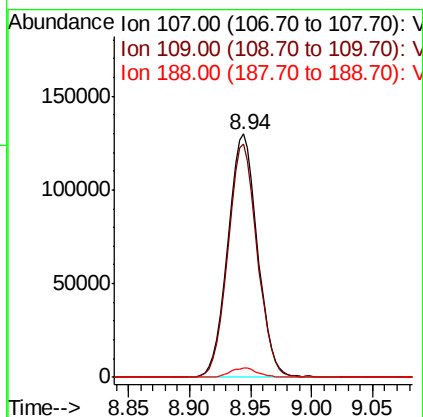
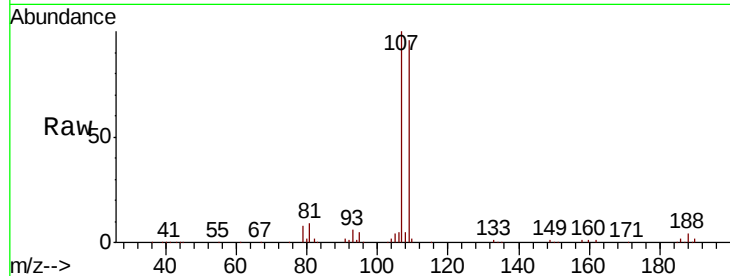




#50
 1,2-Dibromoethane
 Concen: 55.952 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

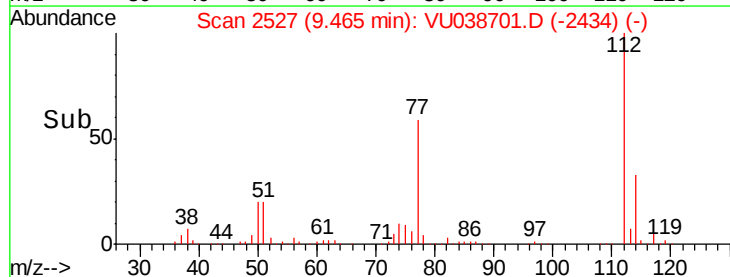
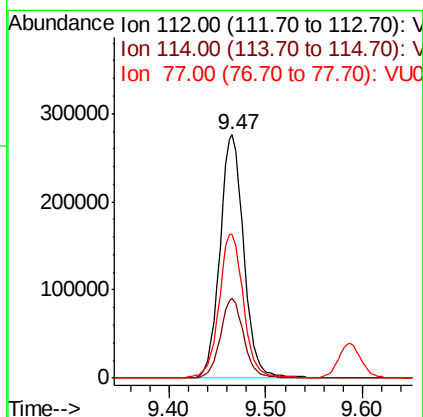
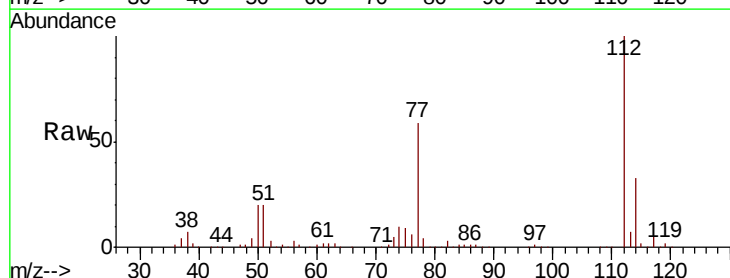
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

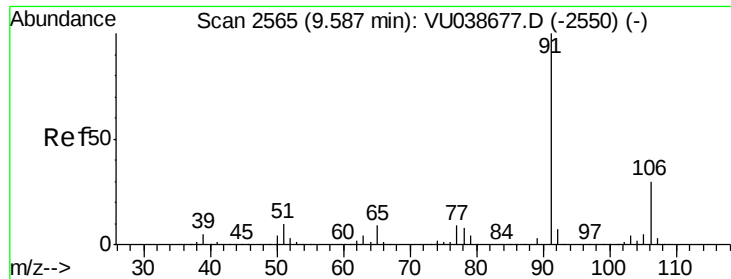
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	65.9	122.5
188	3.9	2.9	4.3



#51
 Chlorobenzene
 Concen: 47.953 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.2	41.2
77	59.1	47.9	71.9





#52

Ethylbenzene

Concen: 44.675 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

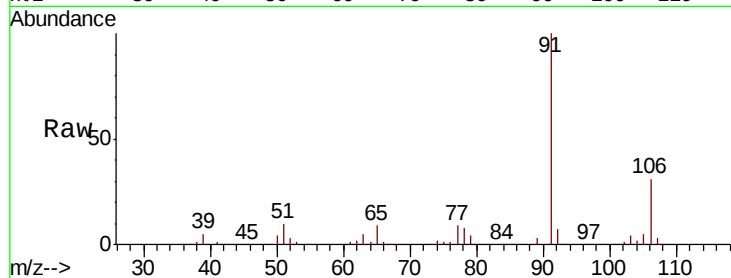
VSTD05044

Tot Ion: 91 Resp: 753498

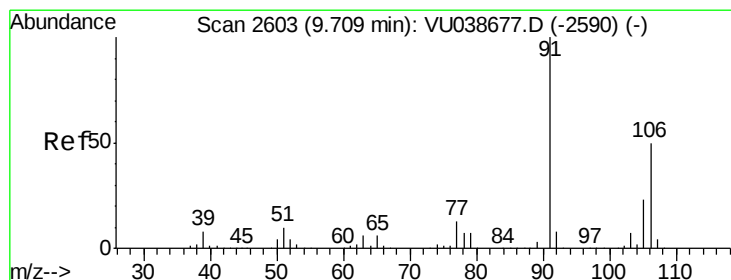
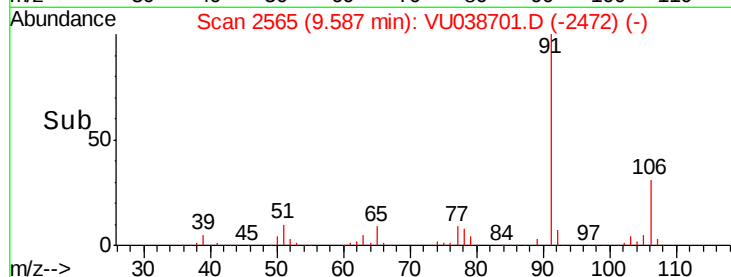
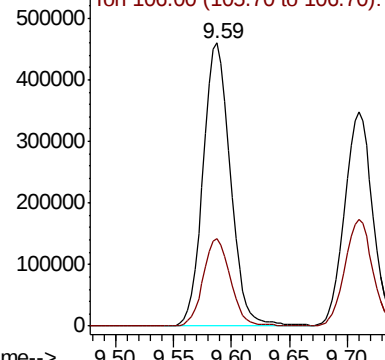
Ion Ratio Lower Upper

91 100

106 30.7 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VU038677.D (-2550) (-)



#53

m,p-Xylene

Concen: 45.396 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU038701.D

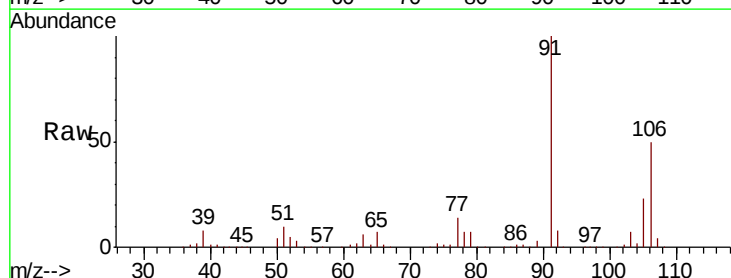
Acq: 09 Jun 2020 04:48

Tgt Ion: 106 Resp: 293914

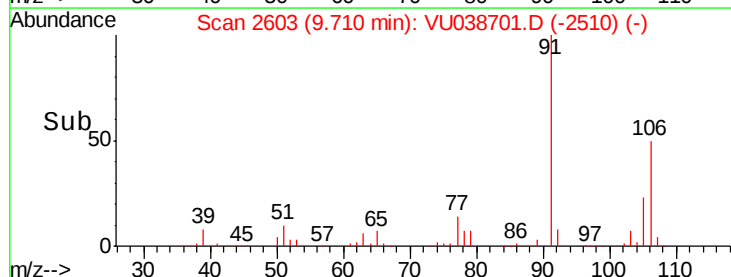
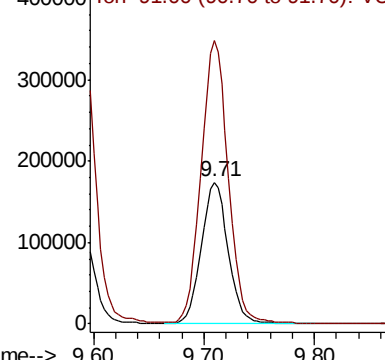
Ion Ratio Lower Upper

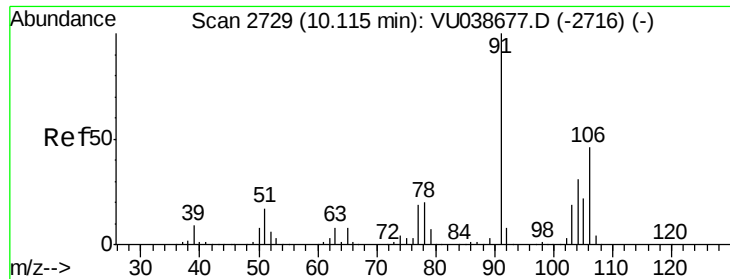
106 100

91 200.0 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VU038677.D (-2590) (-)

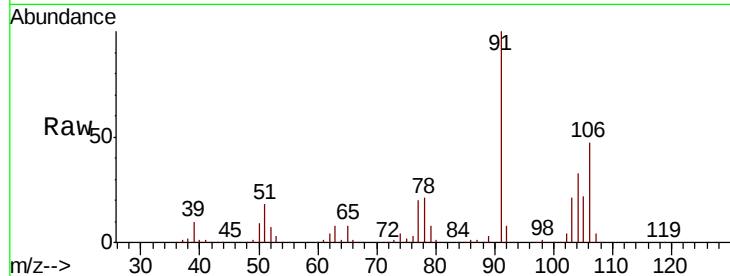




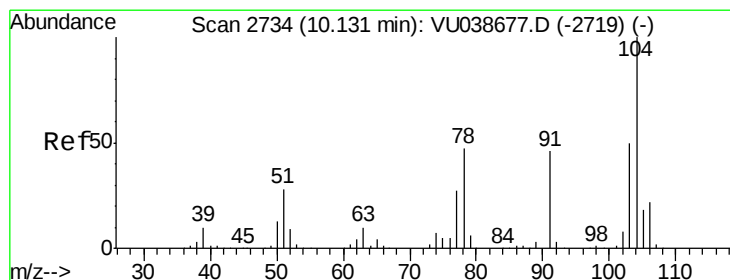
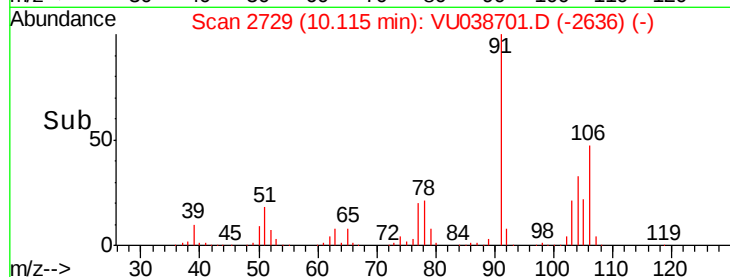
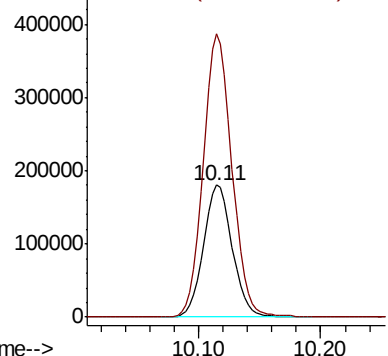
#54
o-xylene
Concen: 47.099 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tot Ion:106 Resp: 296029
Ion Ratio Lower Upper
106 100
91 214.0 151.2 280.8

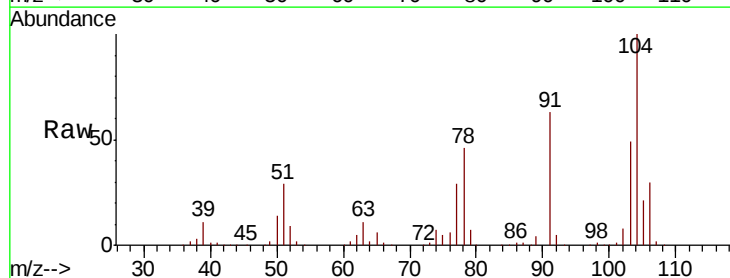


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

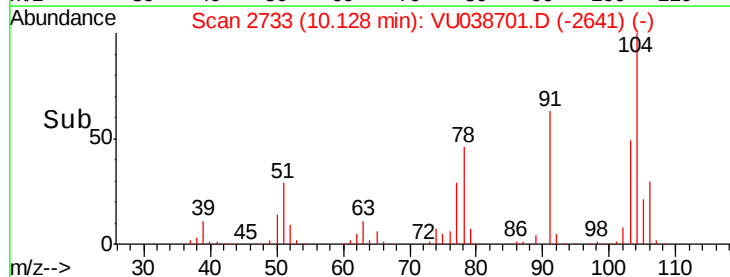
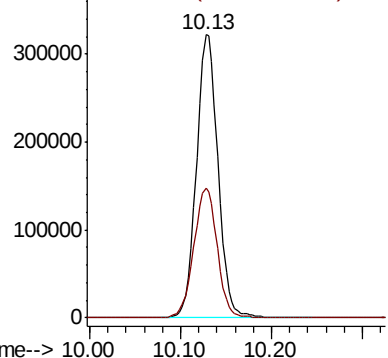


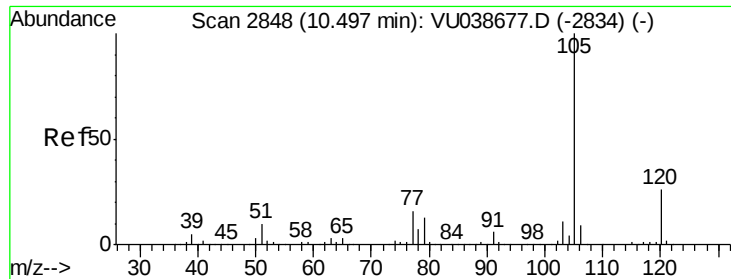
#55
Styrene
Concen: 48.697 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU038701.D
Acq: 09 Jun 2020 04:48

Tgt Ion:104 Resp: 530599
Ion Ratio Lower Upper
104 100
78 45.8 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 42.903 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

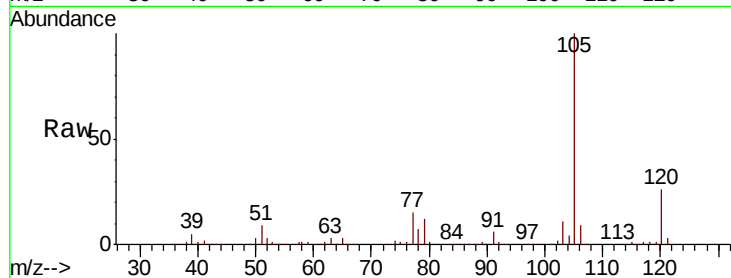
Tot Ion:105 Resp: 703780

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

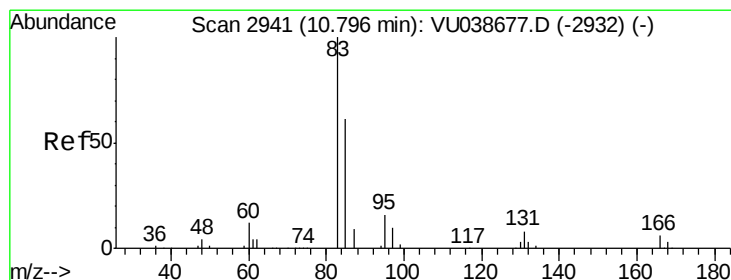
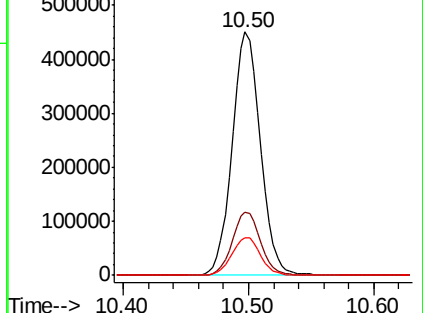
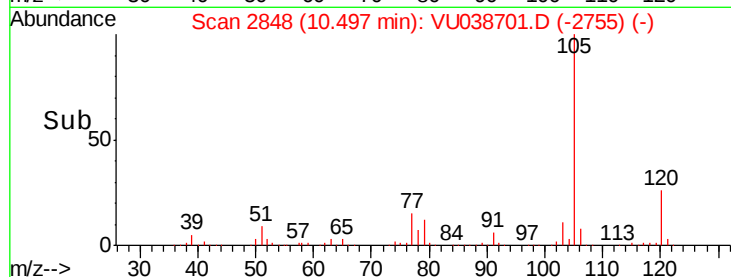
77 15.9 12.6 19.0



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: 55.542 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

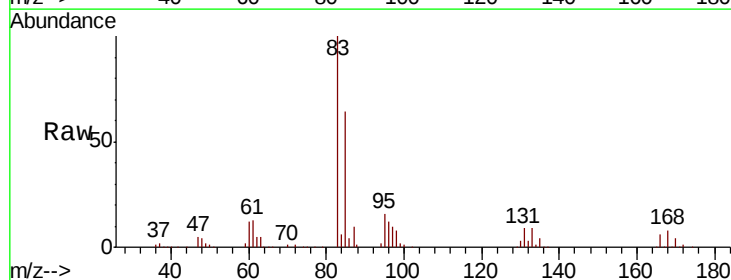
Tgt Ion: 83 Resp: 346515

Ion Ratio Lower Upper

83 100

85 64.1 45.3 84.1

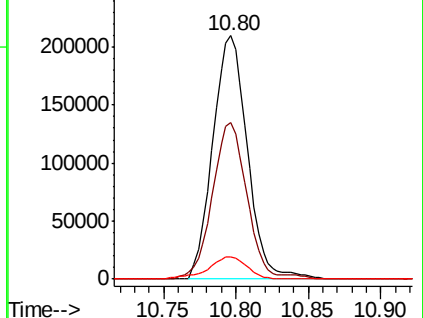
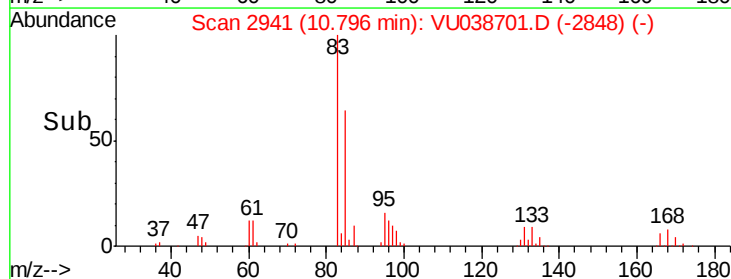
131 9.4 7.2 10.8

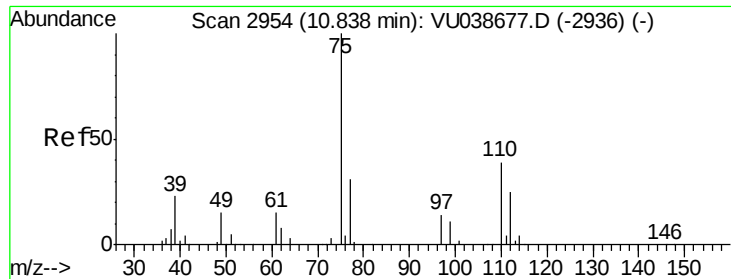


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 57.111 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

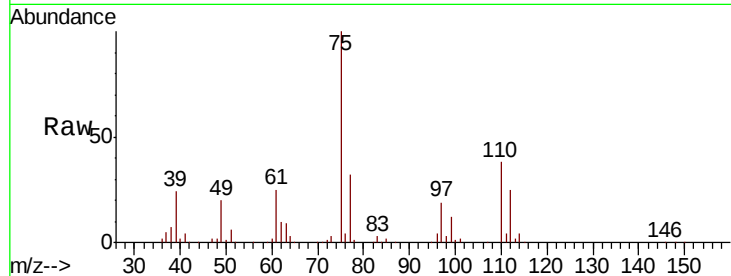
VSTD05044

Tot Ion: 75 Resp: 304991

Ion Ratio Lower Upper

75 100

77 32.1 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.84

200000

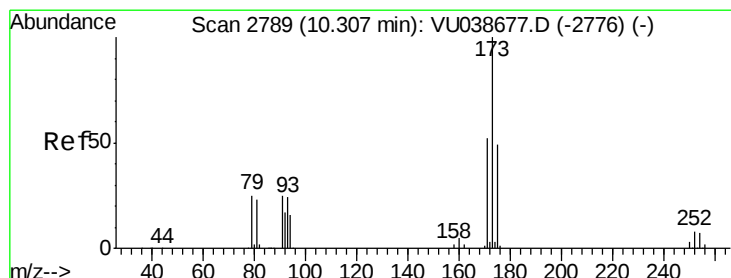
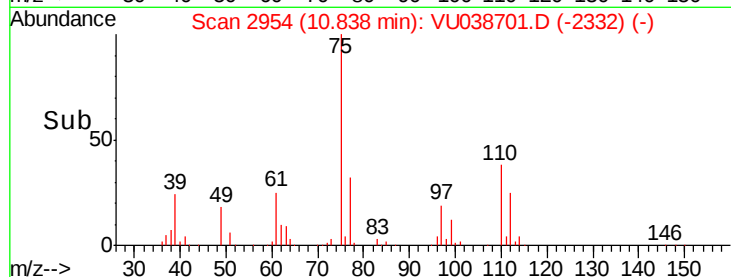
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 56.946 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

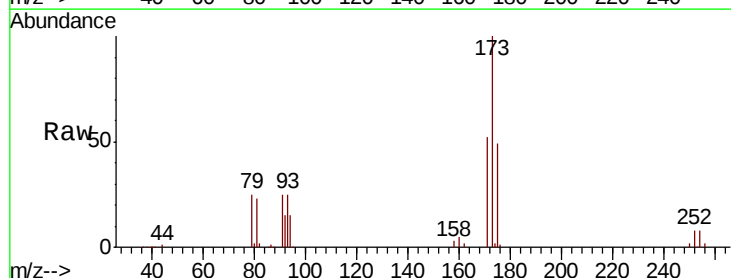
Tgt Ion: 173 Resp: 151425

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

254 7.3 5.8 8.8



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

10.31

120000

100000

80000

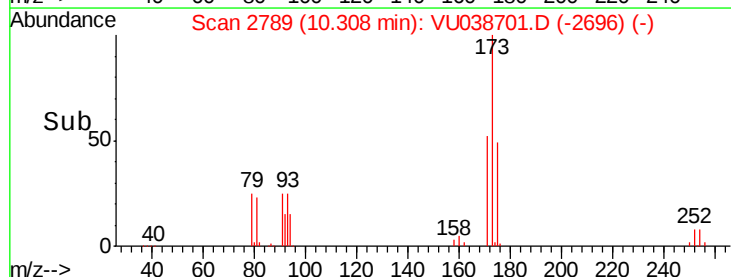
60000

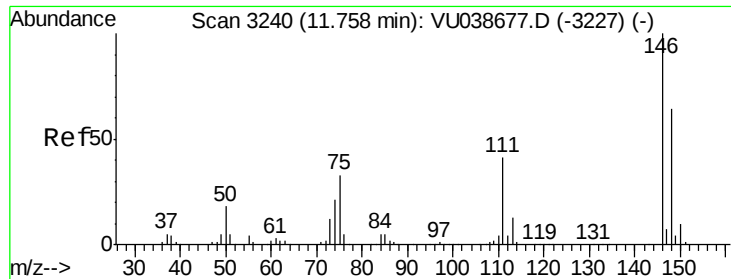
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 47.405 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

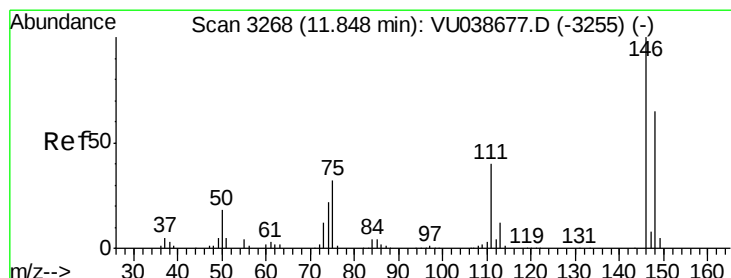
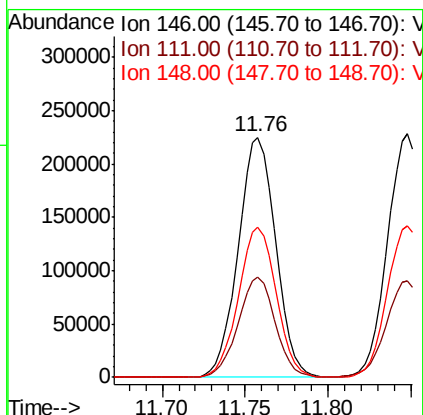
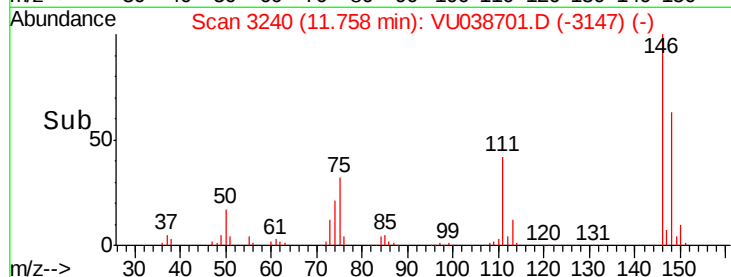
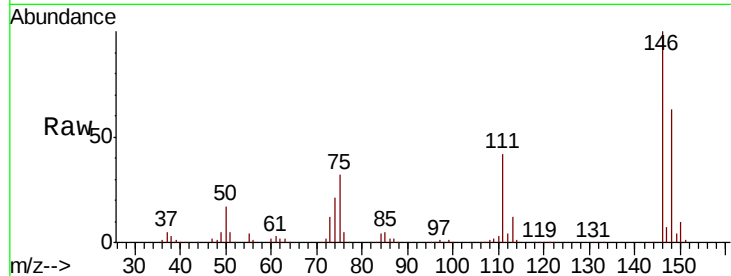
Tot Ion:146 Resp: 354717

Ion Ratio Lower Upper

146 100

111 41.8 29.2 54.2

148 62.5 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 47.460 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

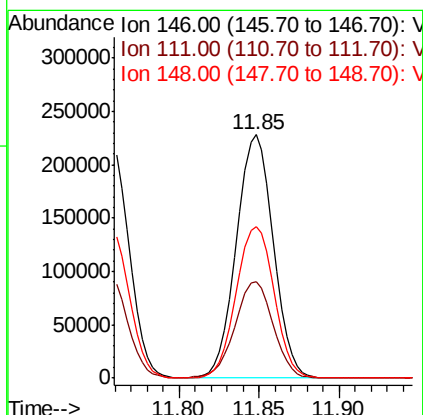
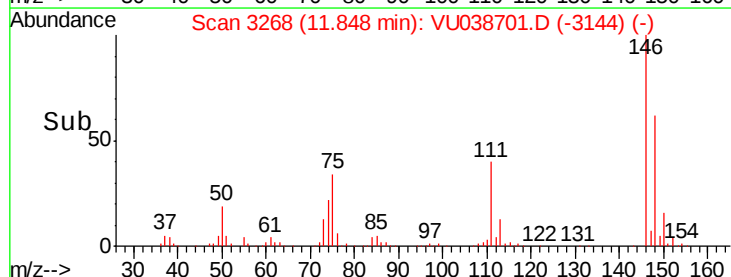
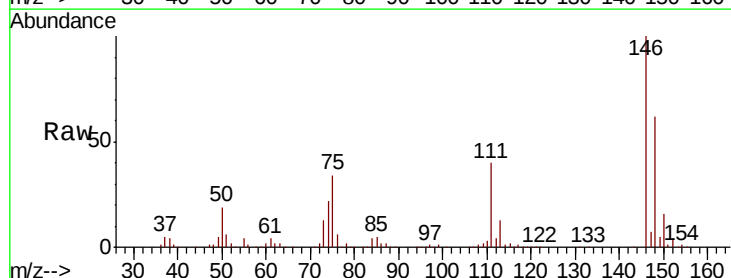
Tgt Ion:146 Resp: 359603

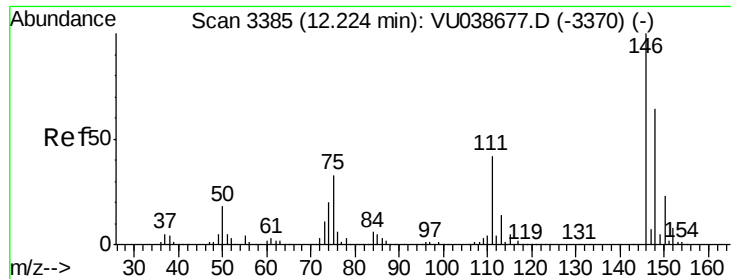
Ion Ratio Lower Upper

146 100

111 39.8 27.6 51.4

148 62.3 44.3 82.3





#65

1,2-Dichlorobenzene

Concen: 49.643 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

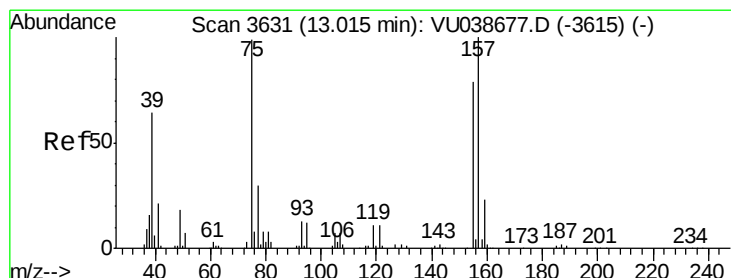
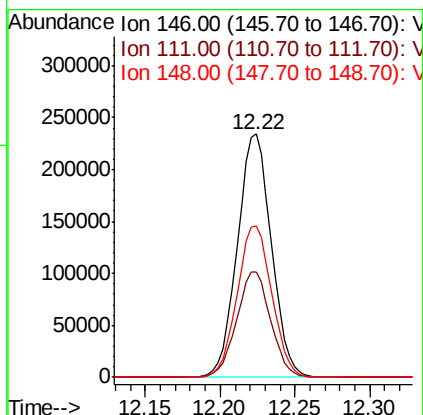
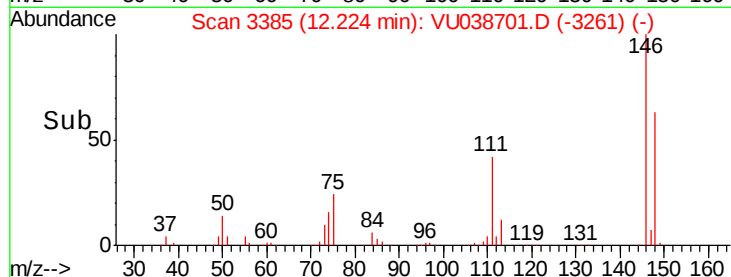
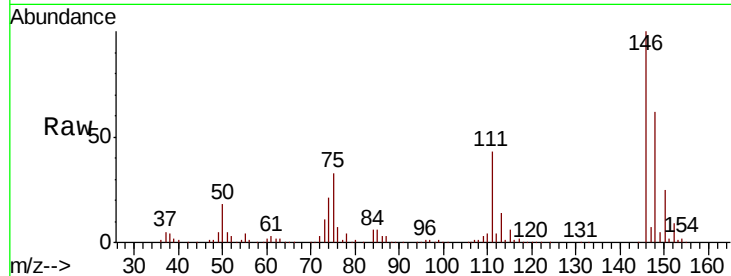
Tot Ion:146 Resp: 369716

Ion Ratio Lower Upper

146 100

111 43.2 34.8 52.2

148 62.4 50.8 76.2



#66

1,2-Dibromo-3-chloropropane

Concen: 60.807 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

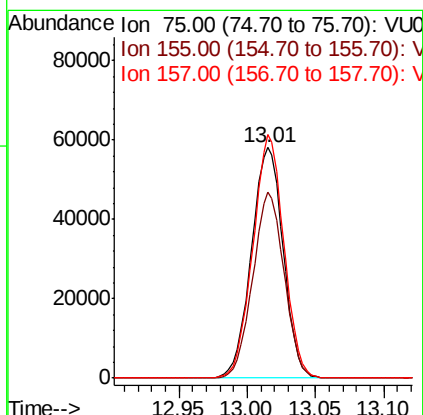
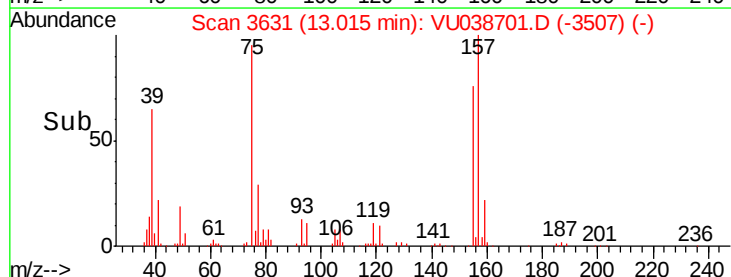
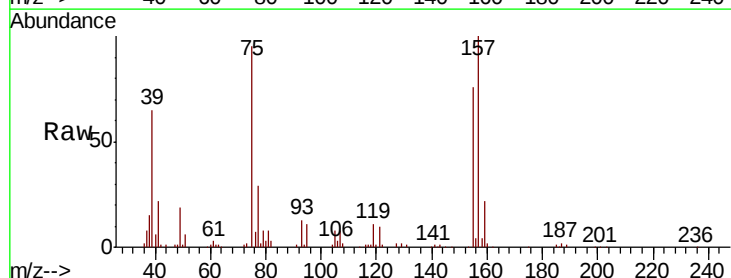
Tgt Ion: 75 Resp: 93848

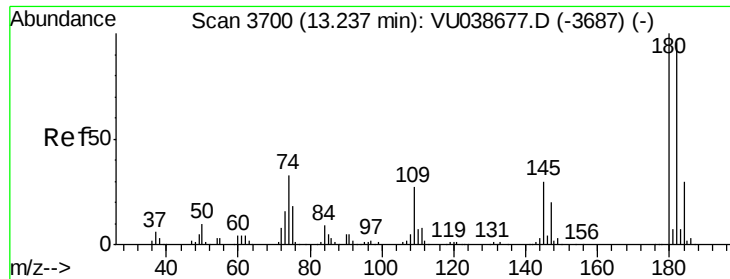
Ion Ratio Lower Upper

75 100

155 80.6 63.8 95.6

157 105.6 80.2 120.2

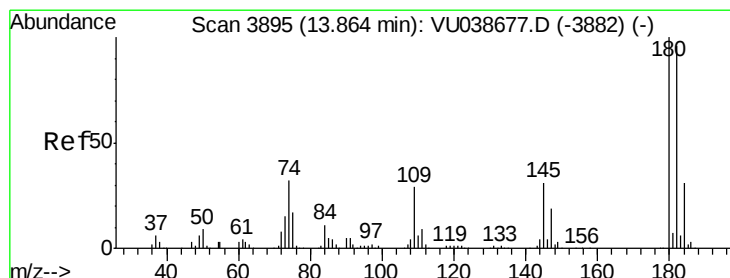
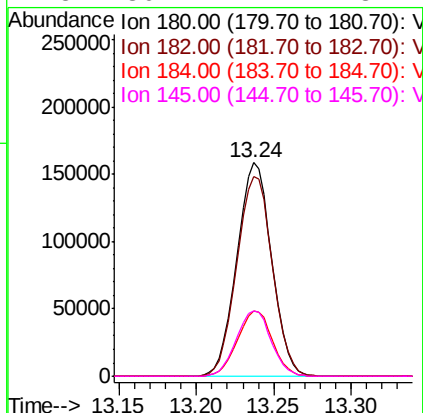
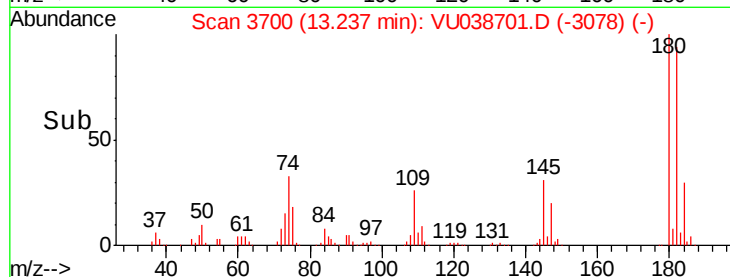
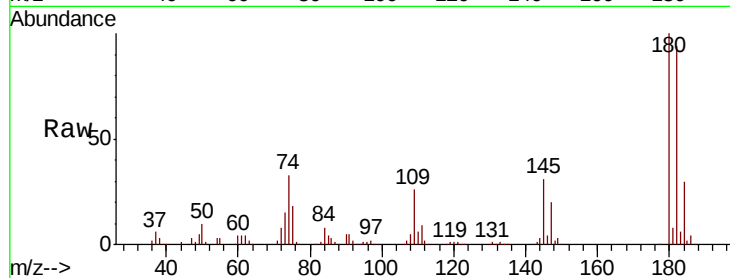




#67
 1,3,5-Trichlorobenzene
 Concen: 46.105 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

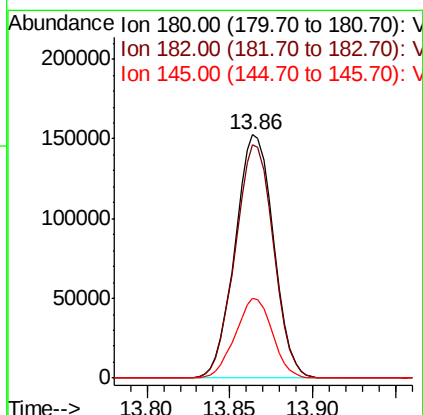
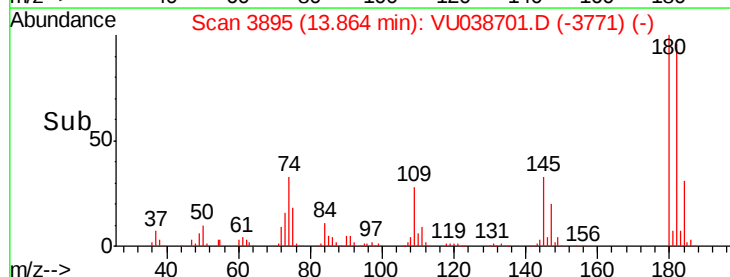
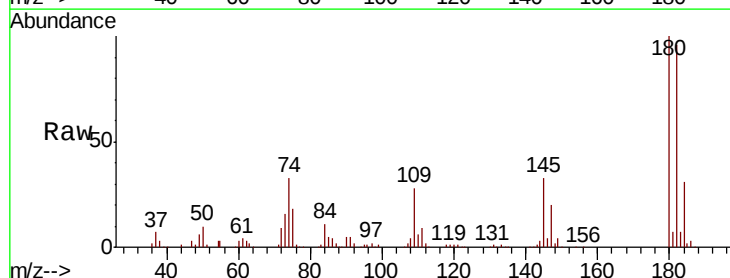
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

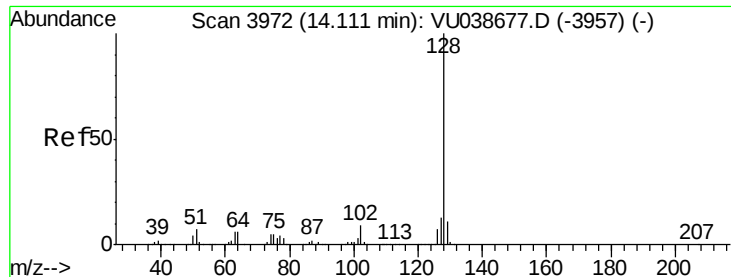
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.6	114.8
184	30.7	24.7	37.1
145	30.7	24.7	37.1



#68
 1,2,4-trichlorobenzene
 Concen: 48.737 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU038701.D
 Acq: 09 Jun 2020 04:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
145	31.6	25.4	38.2





#69

Naphthalene

Concen: 59.551 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

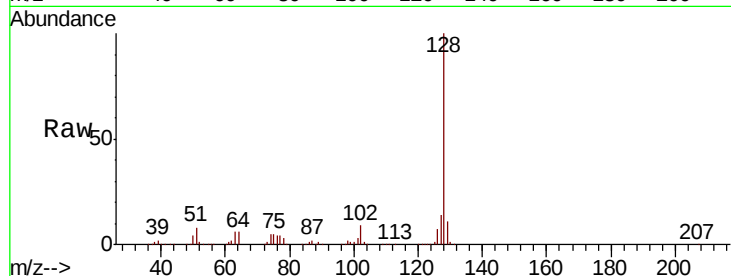
Tot Ion:128 Resp: 1066826

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

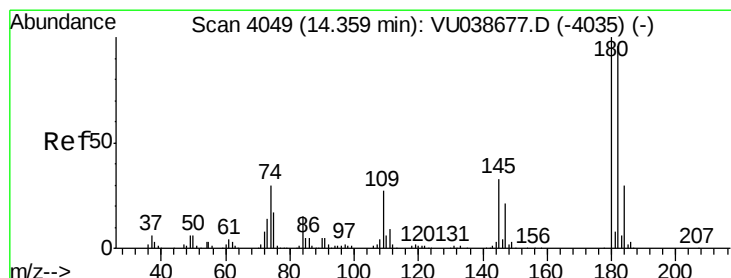
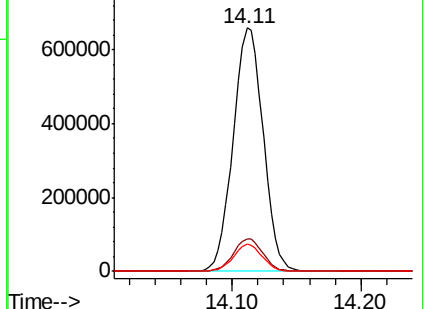
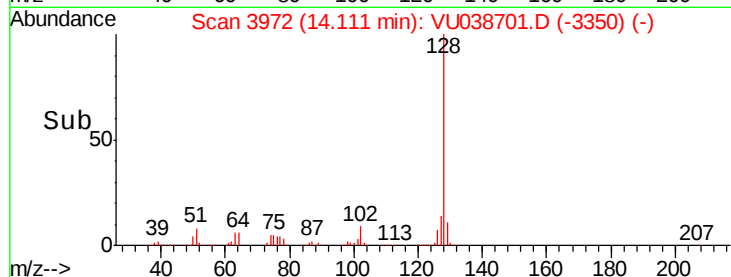
129 10.7 8.6 12.8



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: 52.572 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU038701.D

Acq: 09 Jun 2020 04:48

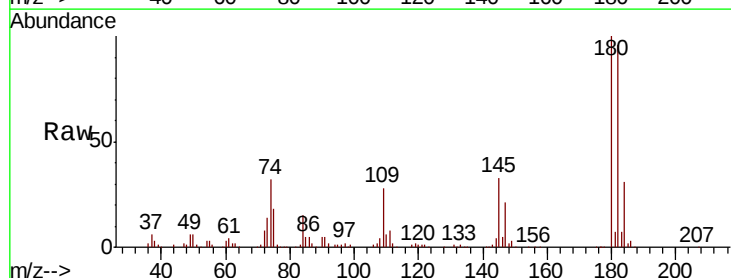
Tgt Ion:180 Resp: 267277

Ion Ratio Lower Upper

180 100

182 95.0 75.9 113.9

145 33.0 26.4 39.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

