

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060320\
 Data File : VU038511.D
 Acq On : 03 Jun 2020 12:54
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Quant Time: Jun 03 18:06:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat May 30 07:49:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	625420	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	606861	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	314483	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	149657	38.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.24%
7) Chloroethane-d5	1.93	69	125350	41.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.64%
11) 1,1-Dichloroethene-d2	2.59	63	335094	41.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.52%
21) 2-Butanone-d5	4.67	46	346620	92.92	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.92%
24) Chloroform-d	5.10	84	358396	46.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.98%
26) 1,2-Dichloroethane-d4	5.74	65	233756	44.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.48%
32) Benzene-d6	5.76	84	694672	44.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.12%
36) 1,2-Dichloropropane-d6	6.72	67	216836	44.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.72%
41) Toluene-d8	7.92	98	617989	44.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.68%
43) trans-1,3-Dichloropropene-	8.20	79	108749	44.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.38%
47) 2-Hexanone-d5	8.66	63	246822	95.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.91%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	331560	45.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.66%
64) 1,2-Dichlorobenzene-d4	12.21	152	254664	43.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.38%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	216875	46.07	ug/L	99
3) Chloromethane	1.53	50	212985	49.09	ug/L	98
5) Vinyl chloride	1.62	62	220032	45.91	ug/L	99
6) Bromomethane	1.87	94	119534	60.96	ug/L	99
8) Chloroethane	1.95	64	134274	45.85	ug/L	96
9) Trichlorofluoromethane	2.16	101	315074	49.05	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	187474	48.81	ug/L	99
12) 1,1-Dichloroethene	2.61	96	181511	47.87	ug/L	93
13) Acetone	2.66	43	254143	82.00	ug/L	98
14) Carbon disulfide	2.82	76	564129	45.62	ug/L	99
15) Methyl Acetate	2.98	43	259569	46.72	ug/L	98
16) Methylene chloride	3.08	84	214768	49.29	ug/L	96
17) trans-1,2-Dichloroethene	3.39	96	194893	47.85	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	633518	48.50	ug/L	100
19) 1,1-Dichloroethane	3.91	63	370541	48.04	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	217673	48.78	ug/L	98
22) 2-Butanone	4.75	43	391078	89.99	ug/L	99

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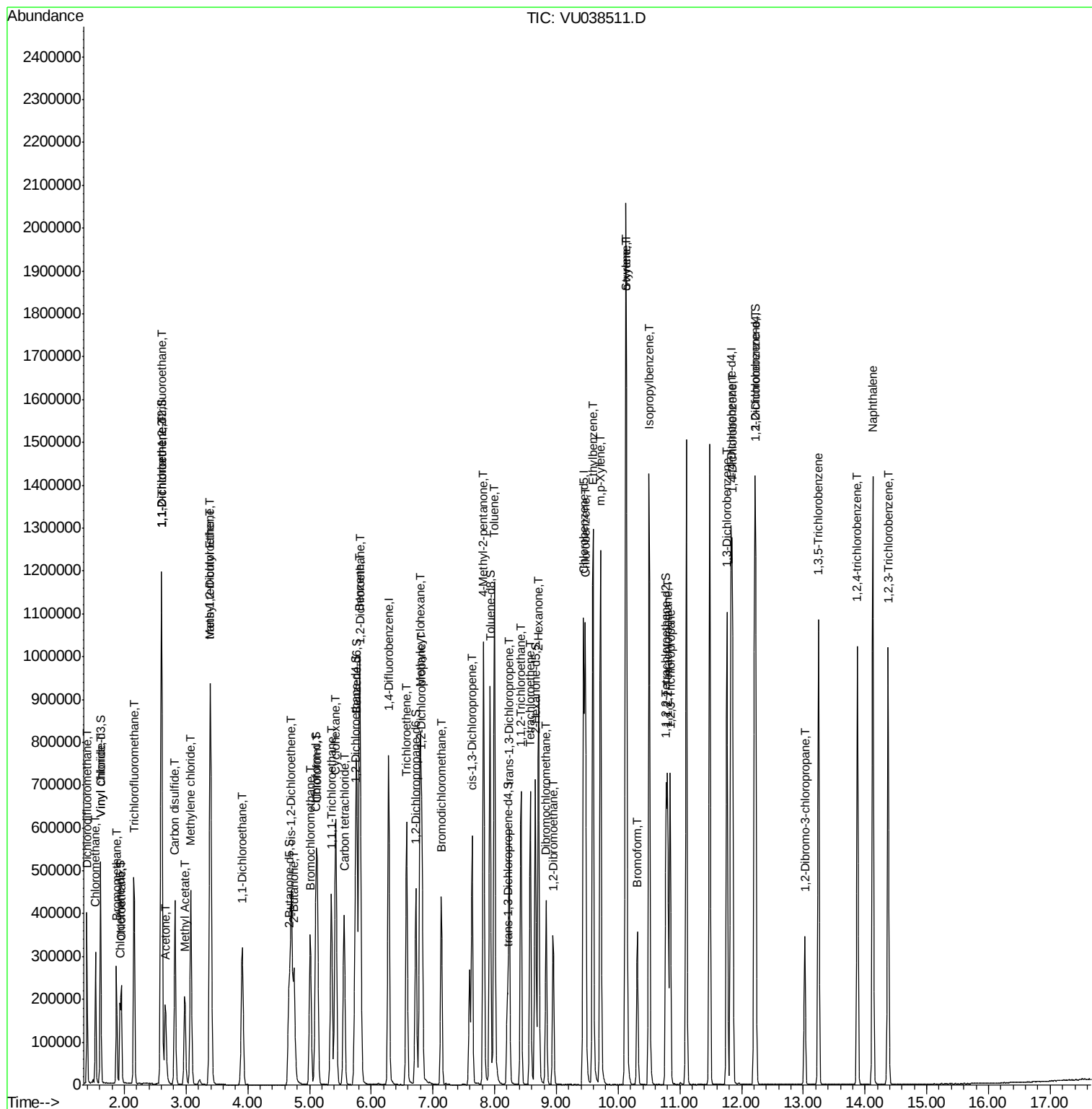
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	108408	49.08	ug/L	96
25) Chloroform	5.13	83	374239	47.18	ug/L	99
27) 1,2-Dichloroethane	5.83	62	312969	48.73	ug/L	99
29) Cyclohexane	5.42	56	316946	45.55	ug/L	97
30) 1,1,1-Trichloroethane	5.36	97	328234	49.74	ug/L	99
31) Carbon tetrachloride	5.56	117	272041	49.46	ug/L	100
33) Benzene	5.81	78	833282	48.89	ug/L	100
34) Trichloroethene	6.57	95	210634	48.30	ug/L	99
35) Methylcyclohexane	6.79	83	319992	46.74	ug/L	99
37) 1,2-Dichloropropane	6.82	63	215140	48.67	ug/L	100
38) Bromodichloromethane	7.13	83	280294	49.48	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	342089	48.63	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	664702	94.55	ug/L	98
42) Toluene	8.00	91	868863	48.56	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	325375	49.42	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	207291	49.42	ug/L	99
46) Tetrachloroethene	8.58	164	154067	48.33	ug/L	99
48) 2-Hexanone	8.71	43	555041	93.51	ug/L	99
49) Dibromochloromethane	8.83	129	218164	51.37	ug/L	99
50) 1,2-Dibromoethane	8.95	107	223392	49.55	ug/L	97
51) Chlorobenzene	9.47	112	553139	48.10	ug/L	100
52) Ethylbenzene	9.59	91	969321	48.35	ug/L	99
53) m,p-Xylene	9.72	106	380847	49.67	ug/L	97
54) o-xylene	10.12	106	364548	48.90	ug/L	99
55) Styrene	10.13	104	641649	50.08	ug/L	99
56) Isopropylbenzene	10.50	105	947938	48.66	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	349050	48.62	ug/L	97
59) 1,2,3-Trichloropropane	10.84	75	300773	48.66	ug/L	100
61) Bromoform	10.31	173	156310	49.47	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	437637	47.60	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	442508	47.35	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	439379	48.19	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	91098	48.81	ug/L	99
67) 1,3,5-Trichlorobenzene	13.25	180	318716	48.71	ug/L	100
68) 1,2,4-trichlorobenzene	13.88	180	299760	47.77	ug/L	99
69) Naphthalene	14.13	128	1088321	48.44	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	308506	49.21	ug/L	99

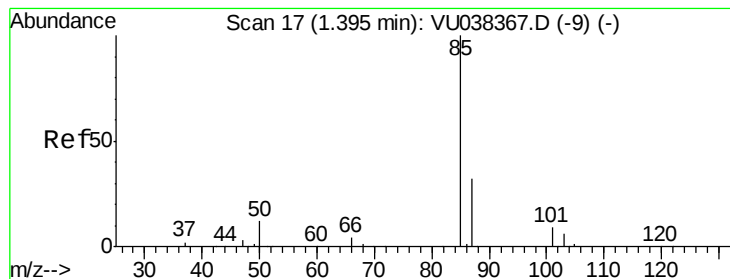
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.07 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

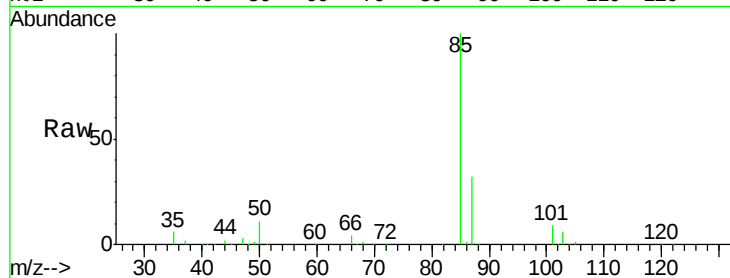
VSTD05042

Tgt Ion: 85 Resp: 216875

Ion Ratio Lower Upper

85 100

87 31.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038367.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038367.D (-9) (-)

1.39

200000

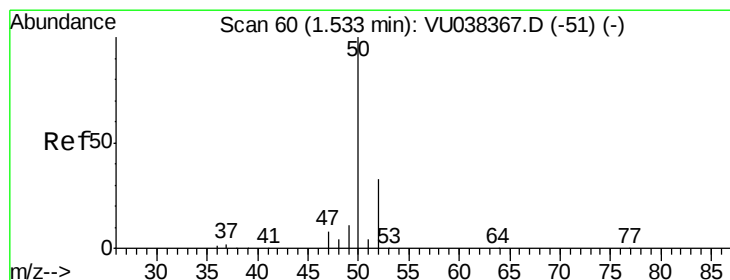
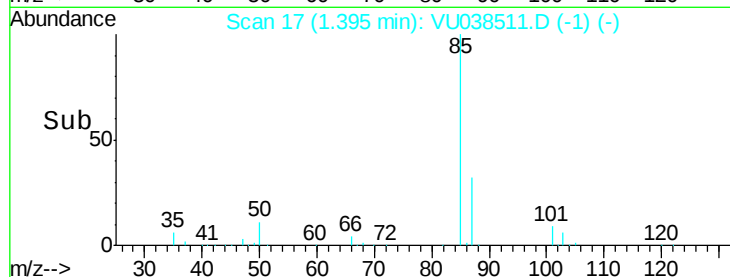
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.09 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038511.D

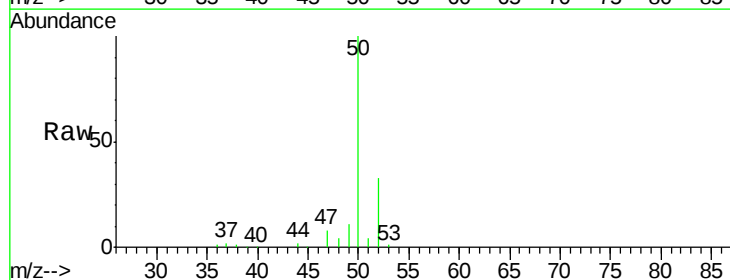
Acq: 03 Jun 2020 12:54

Tgt Ion: 50 Resp: 212985

Ion Ratio Lower Upper

50 100

52 33.2 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU038367.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU038367.D (-51) (-)

1.53

200000

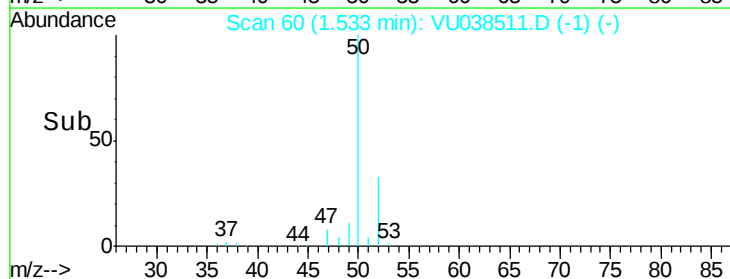
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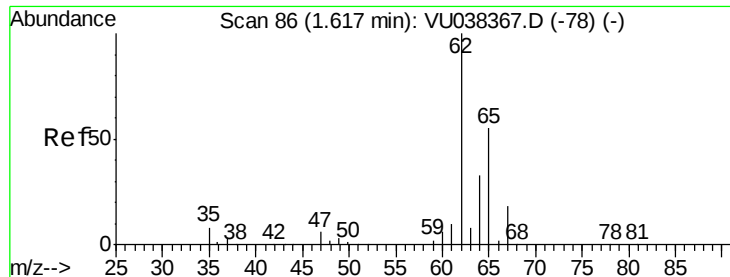
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50000

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Time-->





#5

Vinyl chloride

Concen: 45.91 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

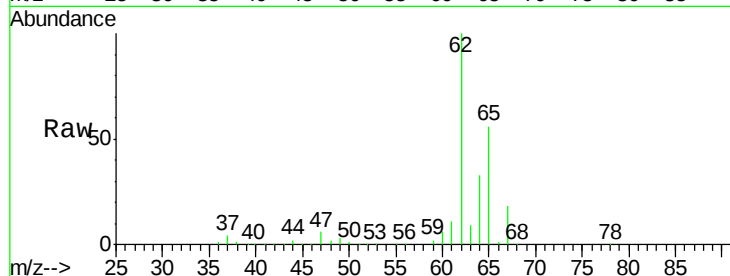
VSTD05042

Tgt Ion: 62 Resp: 220032

Ion Ratio Lower Upper

62 100

64 32.7 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.62

200000

150000

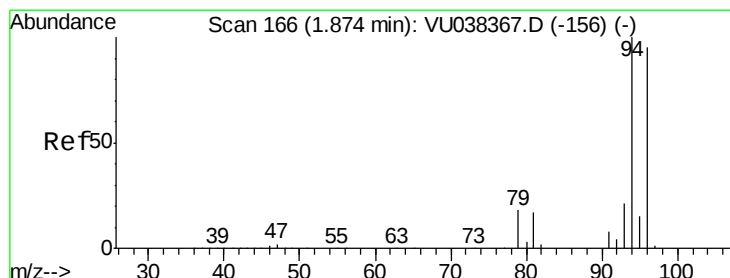
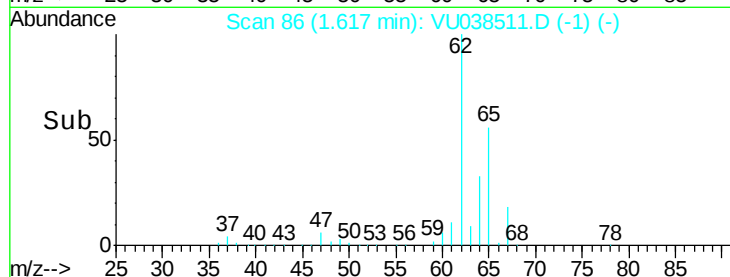
100000

50000

0

1.60 1.65 1.70

Time-->



#6

Bromomethane

Concen: 60.96 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU038511.D

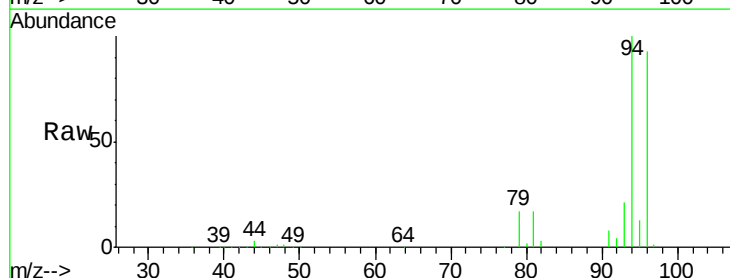
Acq: 03 Jun 2020 12:54

Tgt Ion: 94 Resp: 119534

Ion Ratio Lower Upper

94 100

96 92.9 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.87

100000

80000

60000

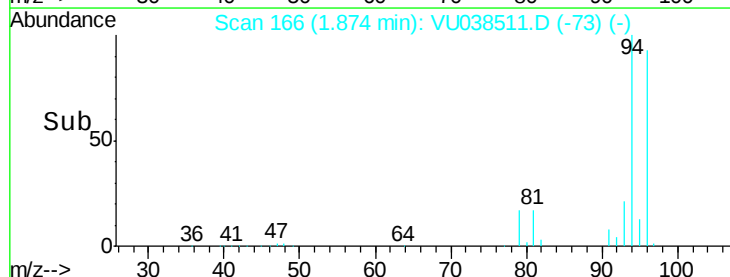
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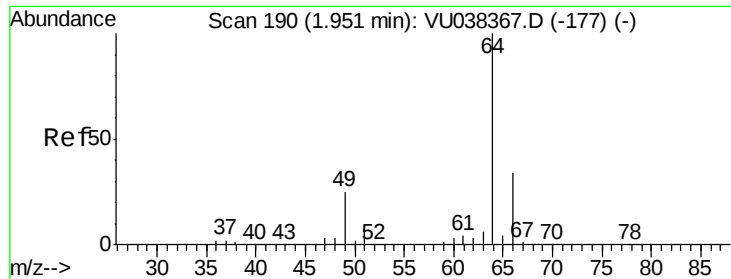
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0

1.80 1.85 1.90 1.95

Time-->

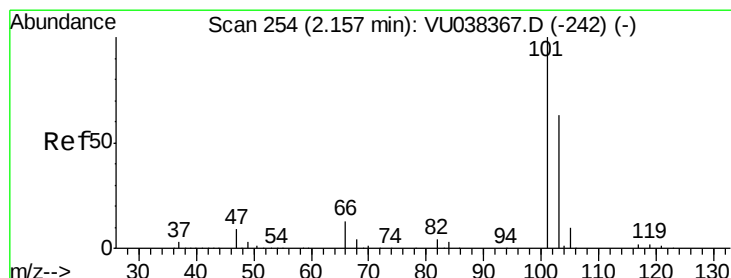
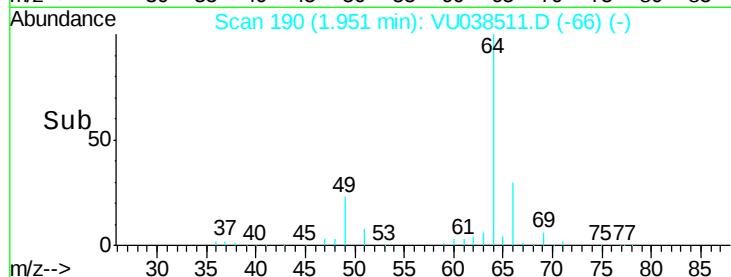
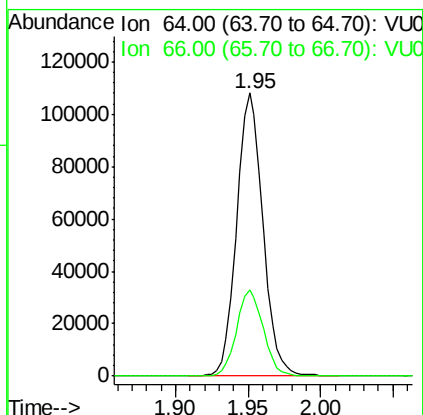
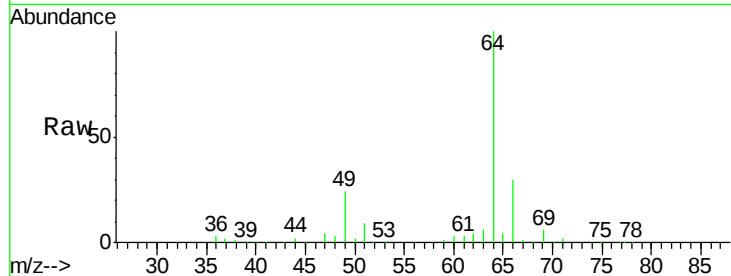




#8
Chloroethane
Concen: 45.85 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

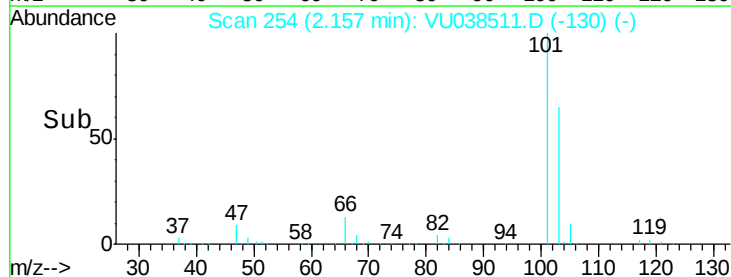
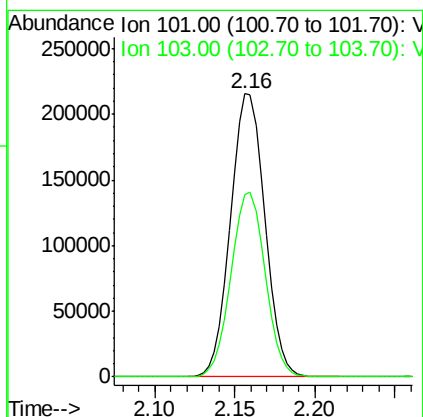
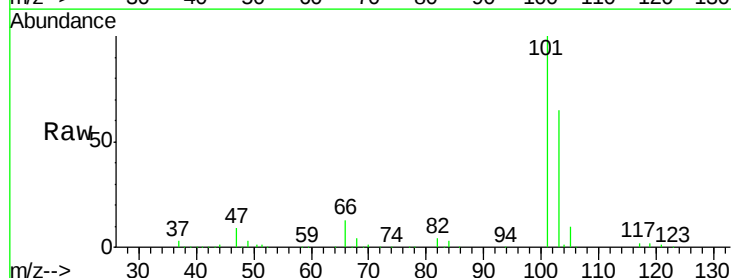
Instrument :
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VSTD05042

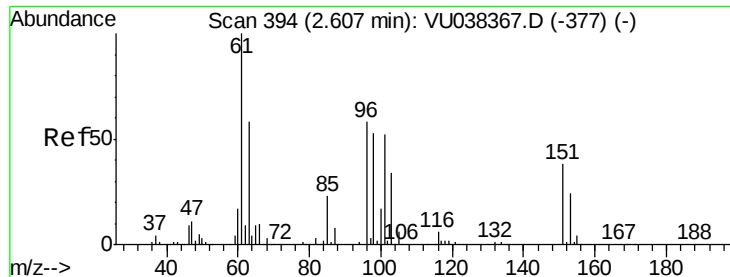
Tgt Ion: 64 Resp: 134274
Ion Ratio Lower Upper
64 100
66 30.4 23.0 42.8



#9
Trichlorofluoromethane
Concen: 49.05 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

Tgt Ion: 101 Resp: 315074
Ion Ratio Lower Upper
101 100
103 64.9 51.4 77.0





#10

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

Concen: 48.81 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

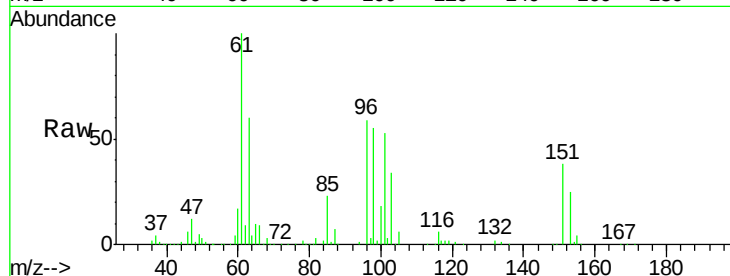
Tgt Ion: 101 Resp: 187474

Ion Ratio Lower Upper

101 100

85 43.4 35.5 53.3

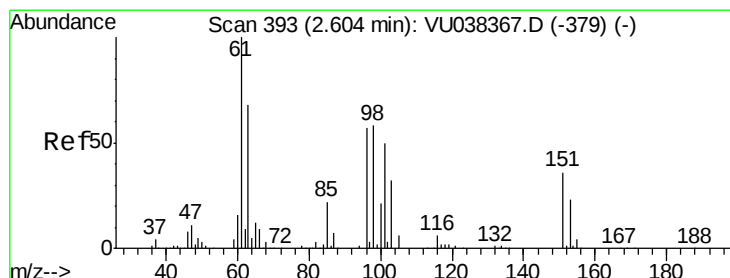
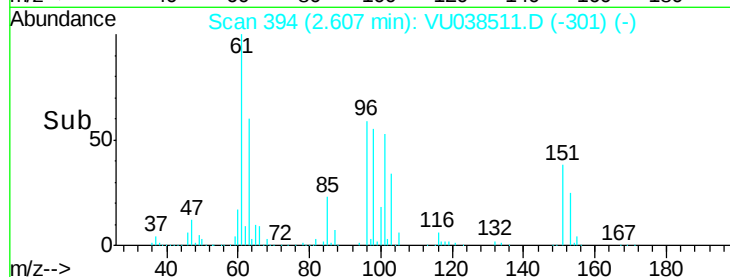
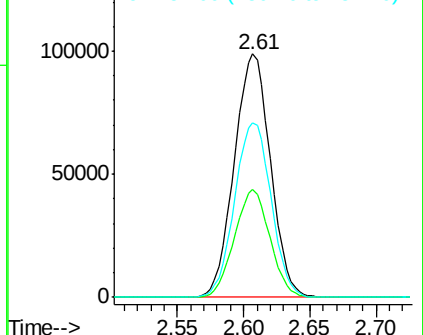
151 72.4 58.4 87.6



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: 47.87 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

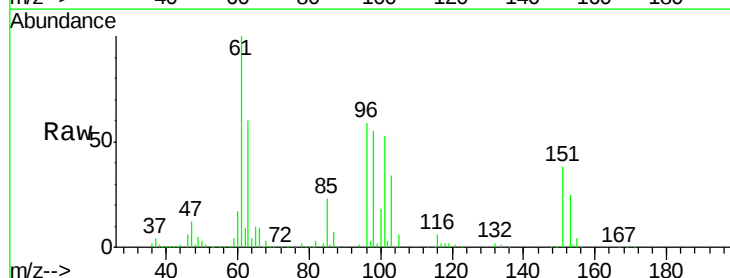
Tgt Ion: 96 Resp: 181511

Ion Ratio Lower Upper

96 100

61 168.6 123.5 229.3

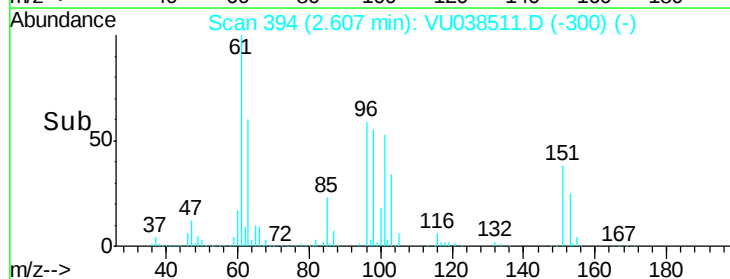
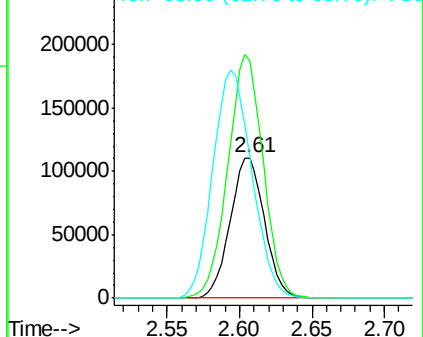
63 100.4 76.6 142.2

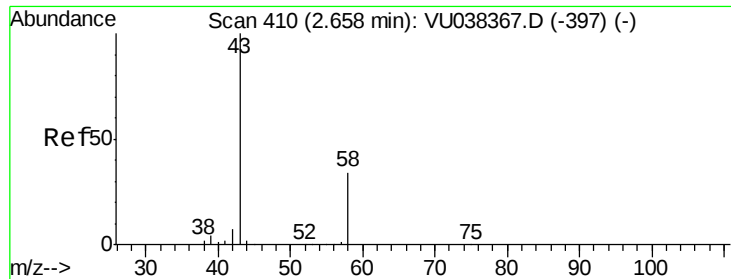


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.00 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU038511.D

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MSVOA_U

ClientSampleId :

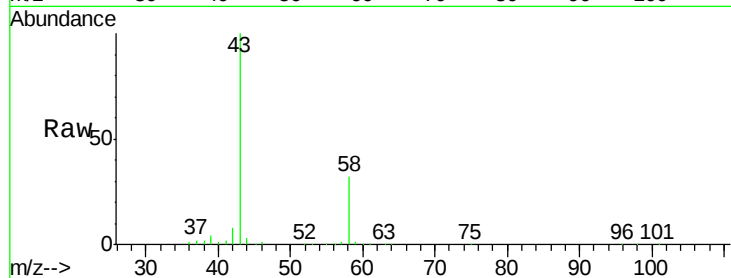
VSTD05042

Tgt Ion: 43 Resp: 254143

Ion Ratio Lower Upper

43 100

58 32.8 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VU038367.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU038367.D (-397) (-)

2.66

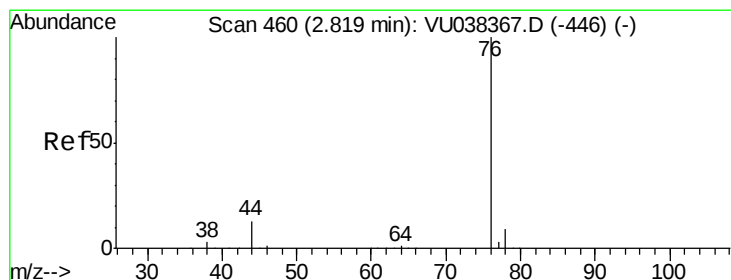
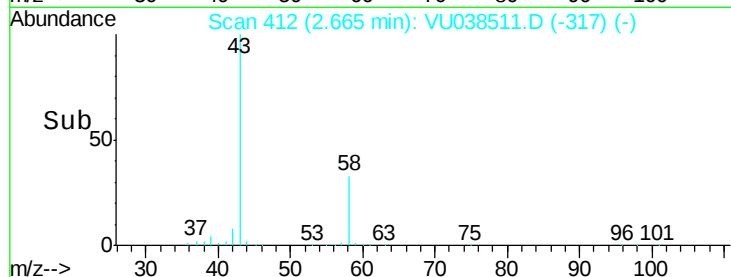
100000

50000

0

Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 45.62 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU038511.D

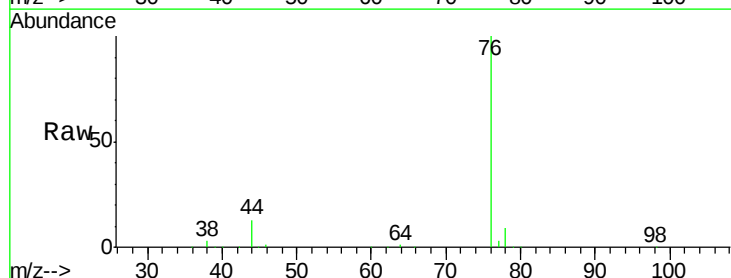
Acq: 03 Jun 2020 12:54

Tgt Ion: 76 Resp: 564129

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU038367.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038367.D (-446) (-)

2.82

300000

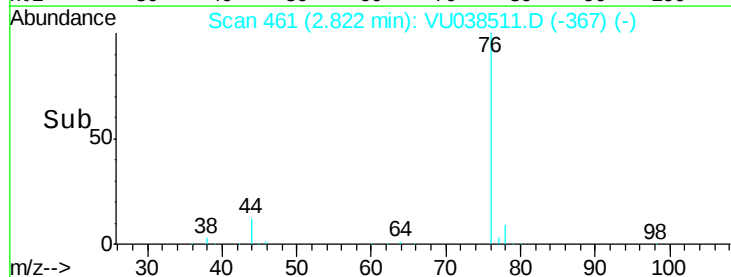
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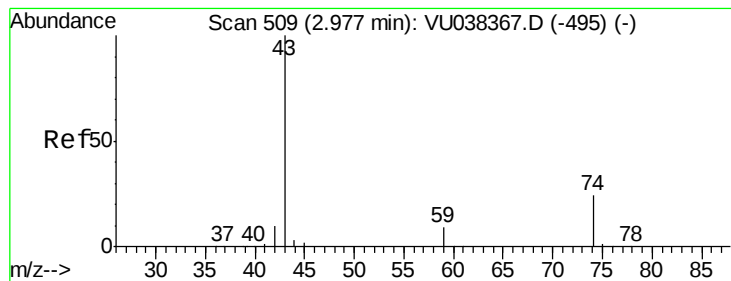
100000

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Time-->

2.75 2.80 2.85 2.90





#15

Methyl Acetate

Concen: 46.72 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampled :

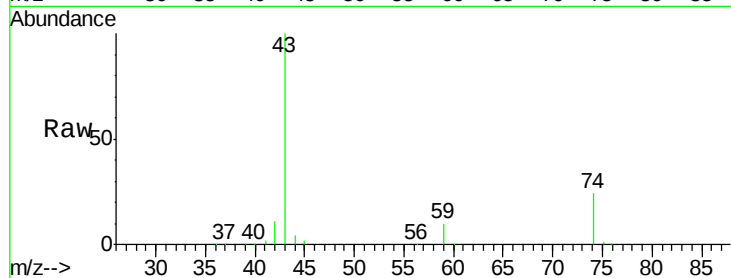
VSTD05042

Tgt Ion: 43 Resp: 259569

Ion Ratio Lower Upper

43 100

74 24.7 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.98

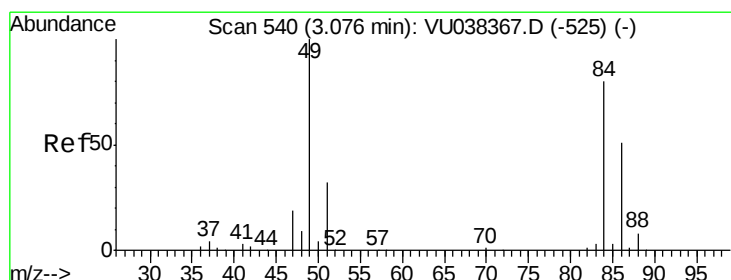
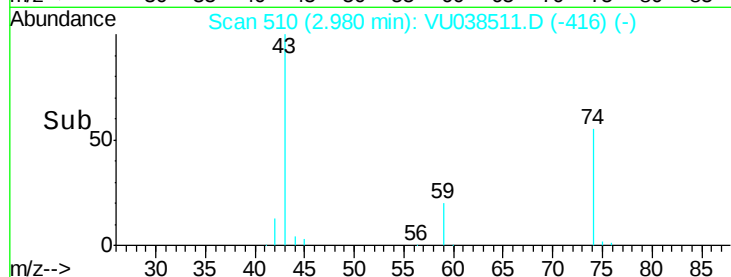
150000

100000

50000

0

Time-->



#16

Methylene chloride

Concen: 49.29 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

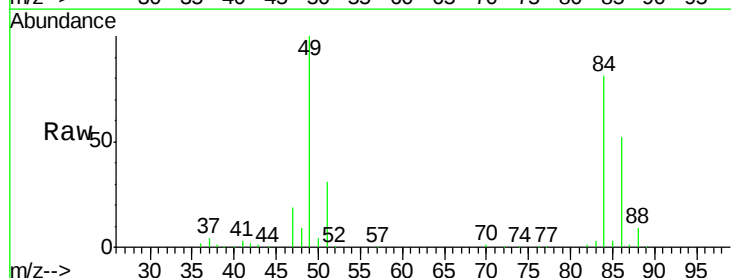
Tgt Ion: 84 Resp: 214768

Ion Ratio Lower Upper

84 100

86 63.4 46.1 85.7

49 123.0 90.0 167.2



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

3.08

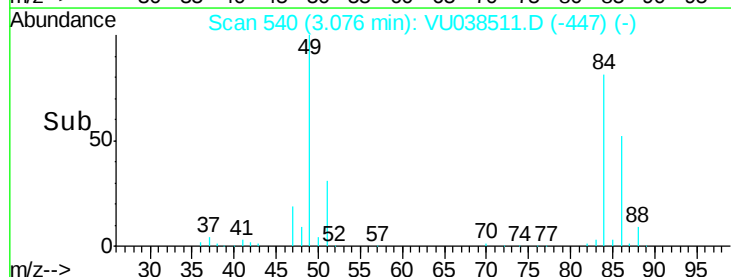
150000

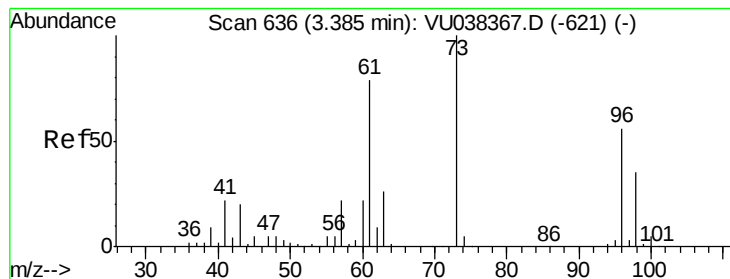
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 47.85 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

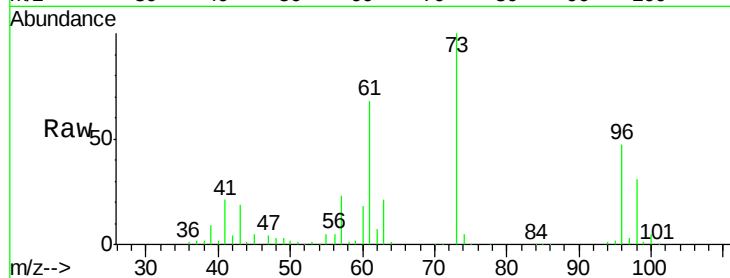
Tgt Ion: 96 Resp: 194893

Ion Ratio Lower Upper

96 100

61 145.1 100.4 186.4

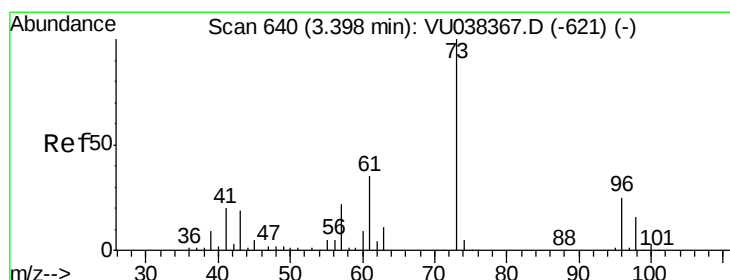
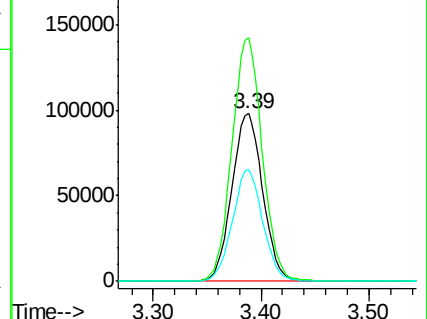
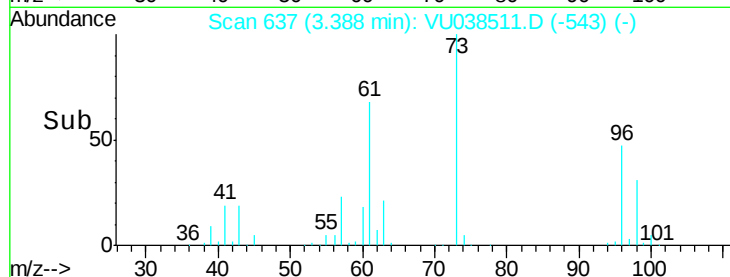
98 66.8 46.1 85.5



Abundance Ion 96.00 (95.70 to 96.70): VU038511.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU038511.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU038511.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 48.50 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

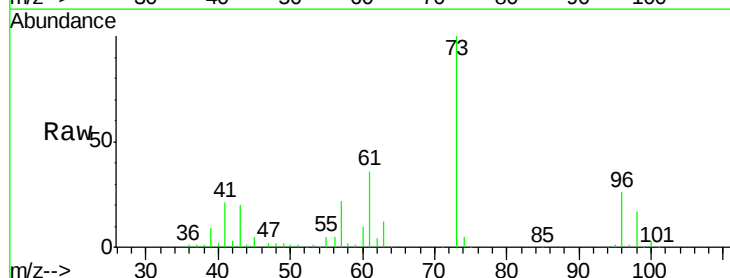
Tgt Ion: 73 Resp: 633518

Ion Ratio Lower Upper

73 100

43 19.7 15.7 23.5

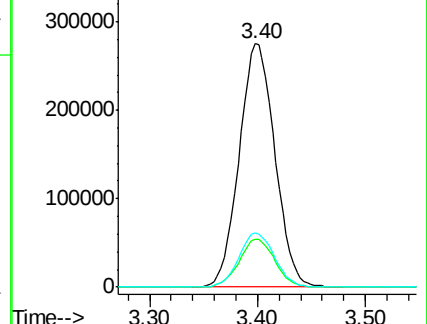
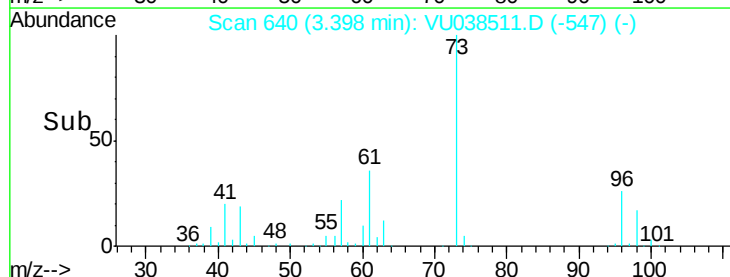
57 22.2 17.7 26.5

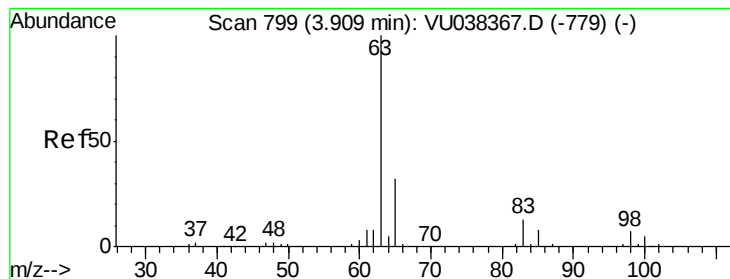


Abundance Ion 73.00 (72.70 to 73.70): VU038511.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU038511.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU038511.D (-547) (-)





#19

1,1-Dichloroethane

Concen: 48.04 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

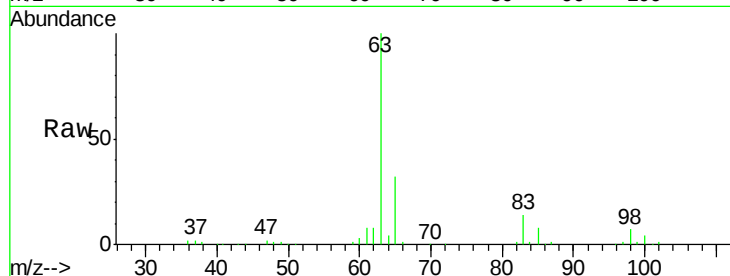
Tgt Ion: 63 Resp: 370541

Ion Ratio Lower Upper

63 100

65 32.1 22.2 41.2

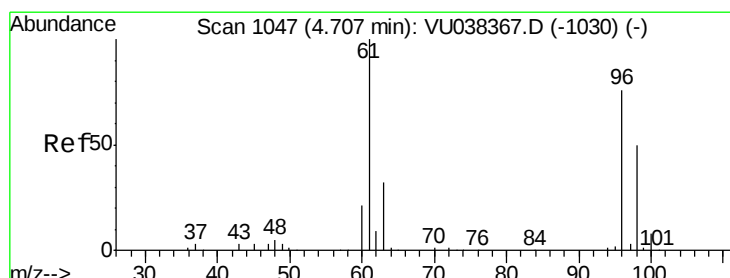
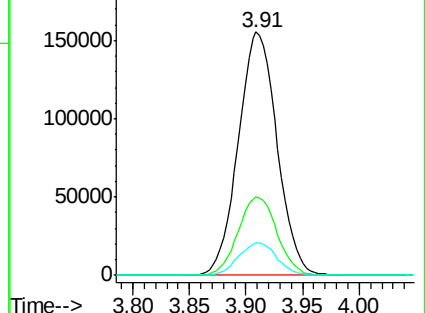
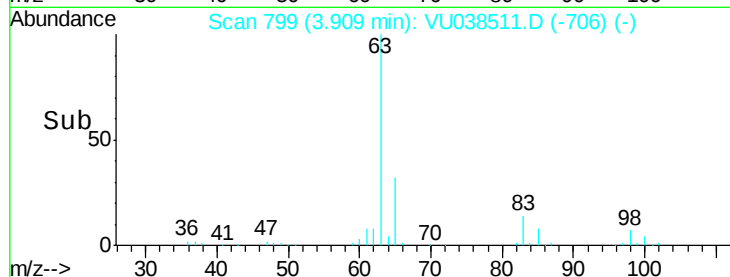
83 13.5 9.4 17.4



Abundance Ion 63.00 (62.70 to 63.70): VU038511.D (-706) (-)

Ion 65.00 (64.70 to 65.70): VU038511.D (-706) (-)

Ion 83.00 (82.70 to 83.70): VU038511.D (-706) (-)



#20

cis-1,2-Dichloroethene

Concen: 48.78 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

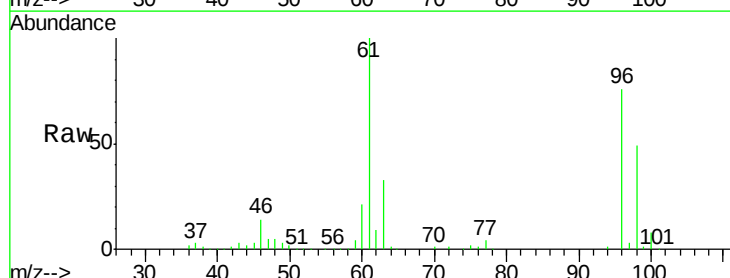
Tgt Ion: 96 Resp: 217673

Ion Ratio Lower Upper

96 100

61 131.1 93.4 173.4

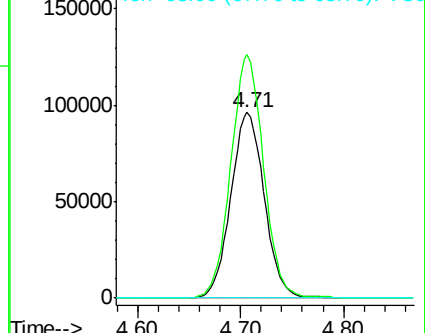
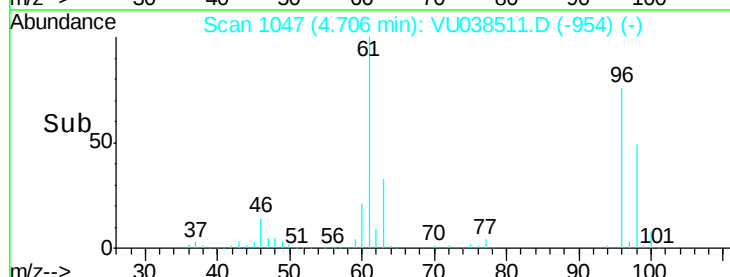
68 0.0 0.0 0.0

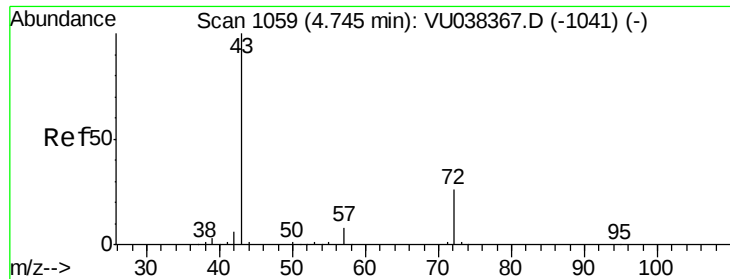


Abundance Ion 96.00 (95.70 to 96.70): VU038511.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU038511.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU038511.D (-954) (-)

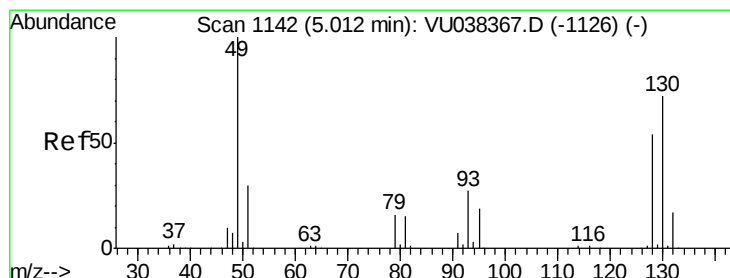
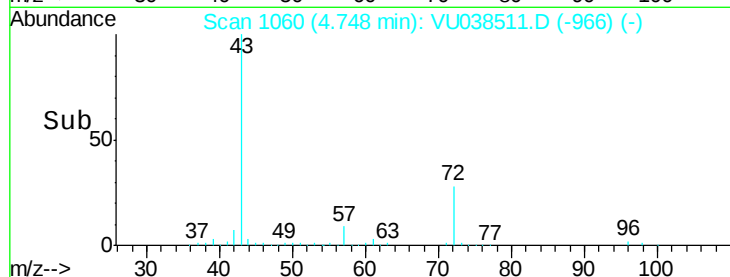
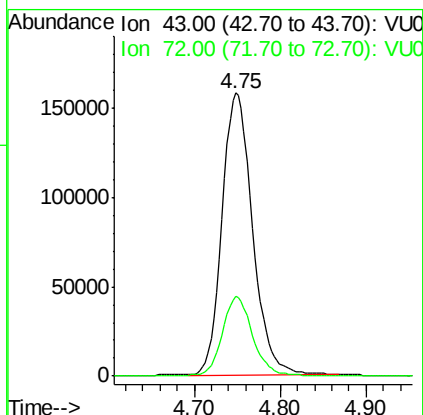
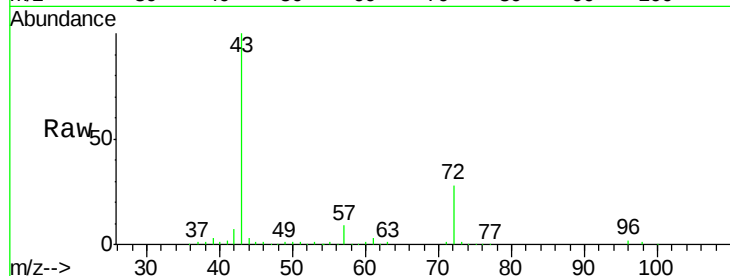




#22
 2-Butanone
 Concen: 89.99 ug/L
 RT: 4.75 min Scan# 1060
 Delta R.T. 0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

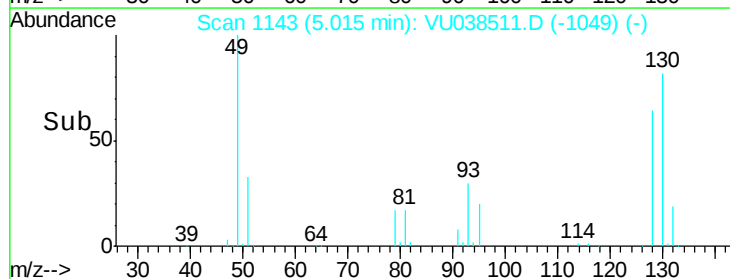
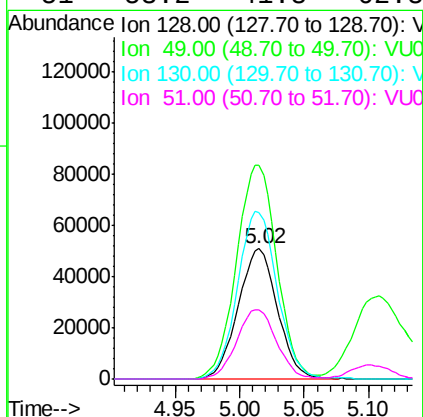
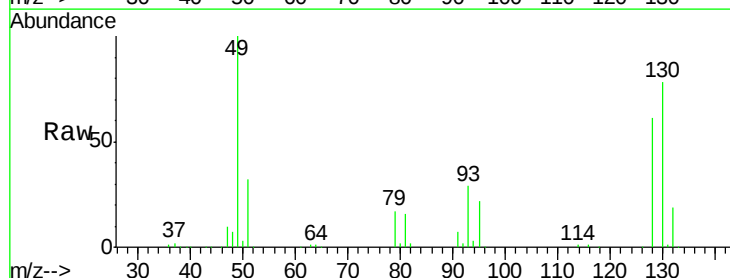
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

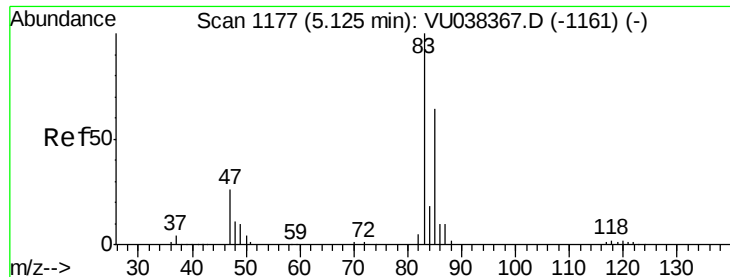
Tgt Ion: 43 Resp: 391078
 Ion Ratio Lower Upper
 43 100
 72 28.2 13.8 41.3



#23
 Bromochloromethane
 Concen: 49.08 ug/L
 RT: 5.02 min Scan# 1143
 Delta R.T. 0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion: 128 Resp: 108408
 Ion Ratio Lower Upper
 128 100
 49 164.1 120.1 223.1
 130 128.3 88.1 163.5
 51 53.2 41.8 62.8

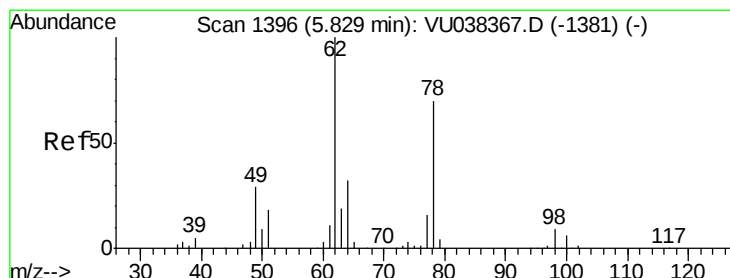
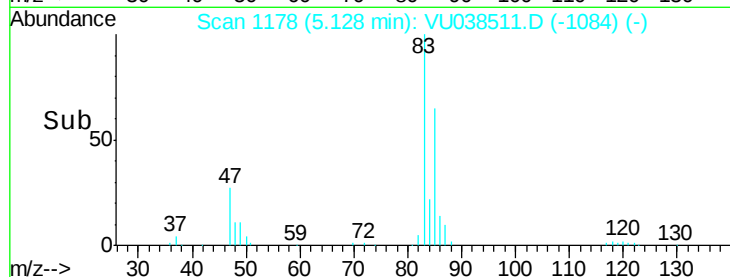
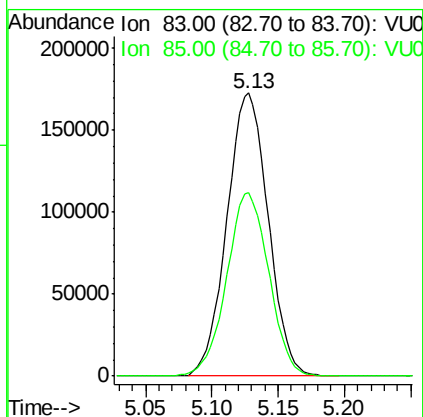
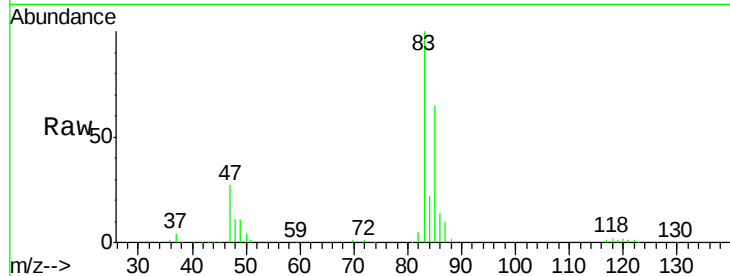




#25
Chloroform
Concen: 47.18 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

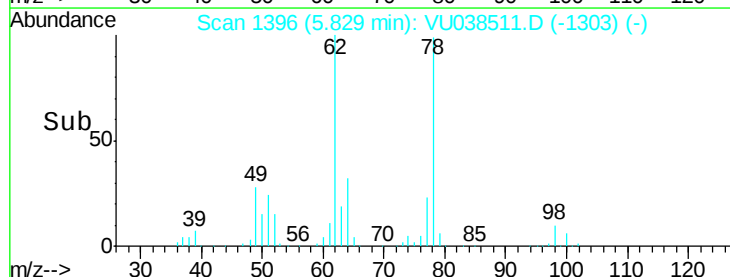
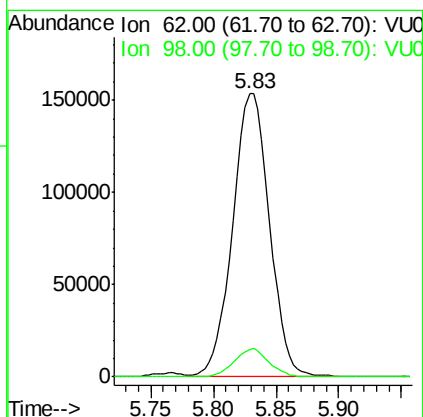
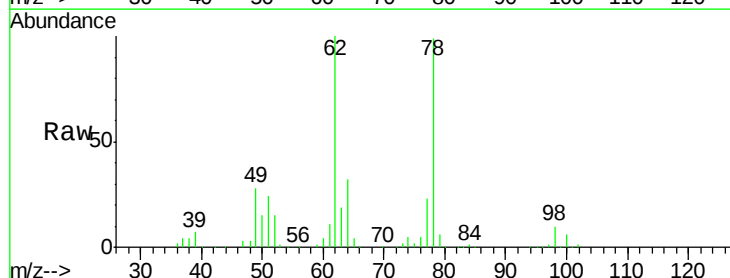
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

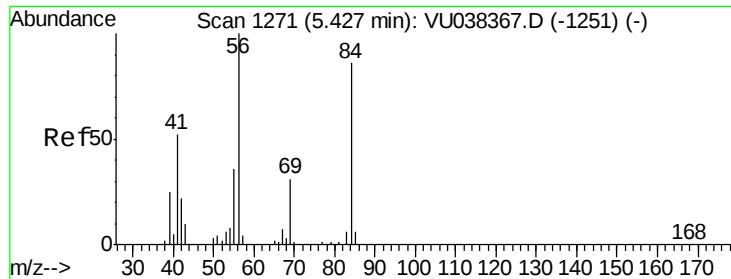
Tgt Ion: 83 Resp: 374239
Ion Ratio Lower Upper
83 100
85 64.7 44.9 83.5



#27
1,2-Dichloroethane
Concen: 48.73 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

Tgt Ion: 62 Resp: 312969
Ion Ratio Lower Upper
62 100
98 9.7 7.5 11.3

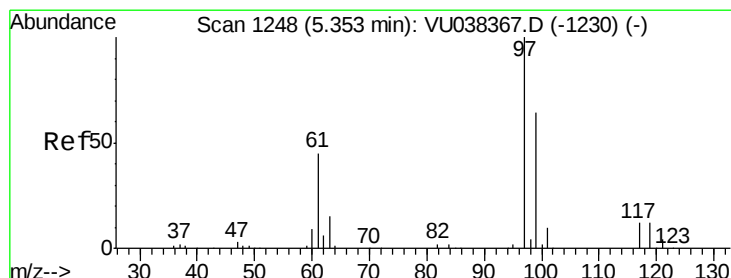
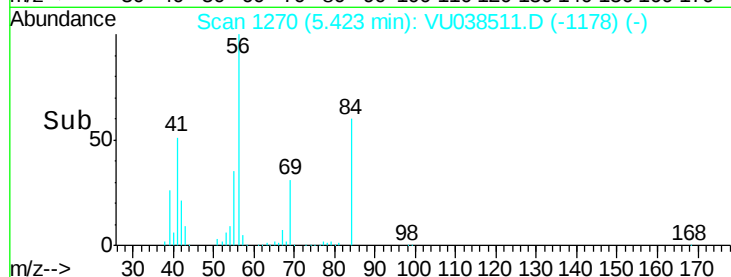
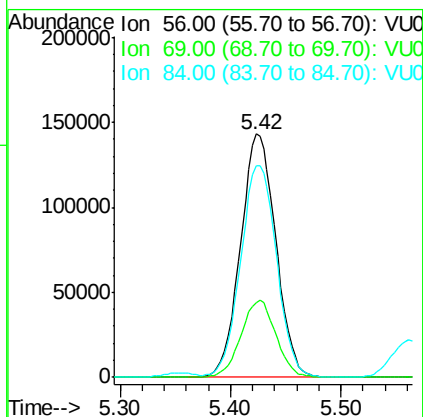
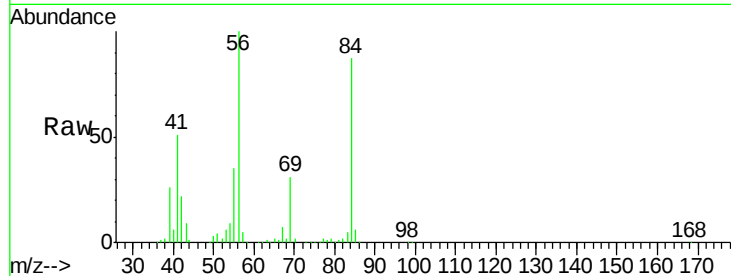




#29
Cyclohexane
Concen: 45.55 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

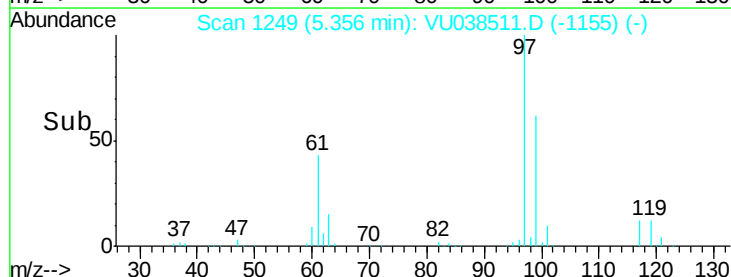
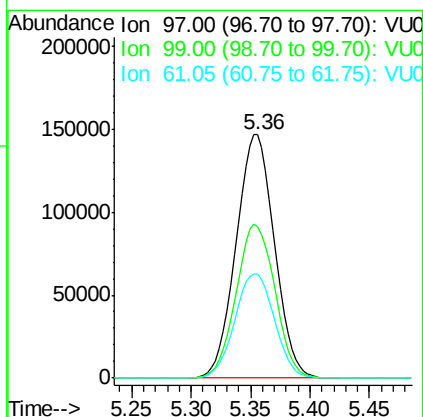
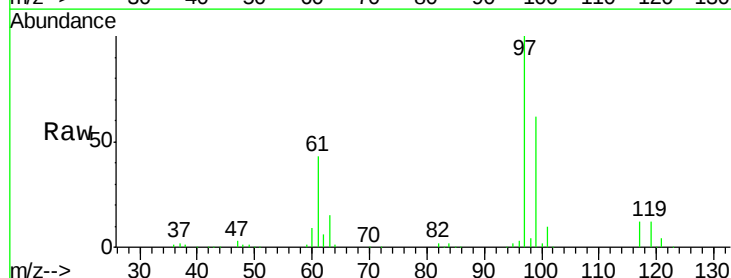
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

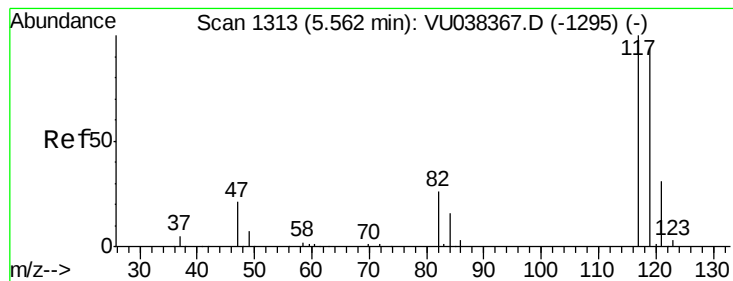
Tgt Ion: 56 Resp: 316946
Ion Ratio Lower Upper
56 100
69 31.4 24.7 37.1
84 89.0 68.2 102.4



#30
1,1,1-Trichloroethane
Concen: 49.74 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

Tgt Ion: 97 Resp: 328234
Ion Ratio Lower Upper
97 100
99 63.9 51.2 76.8
61 44.2 35.9 53.9





#31

Carbon tetrachloride

Concen: 49.46 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

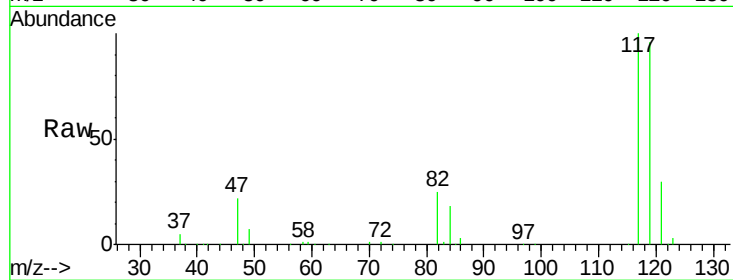
VSTD05042

Tgt Ion:117 Resp: 272041

Ion Ratio Lower Upper

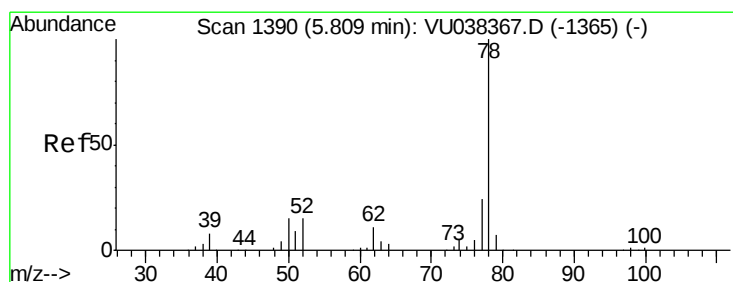
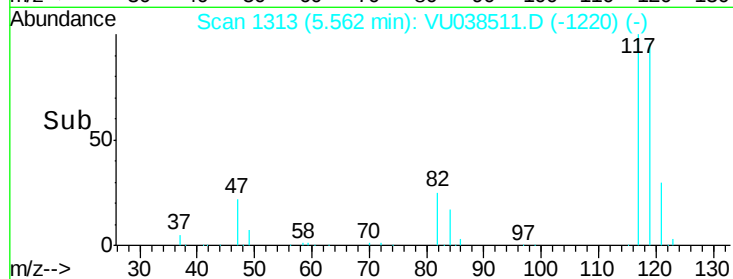
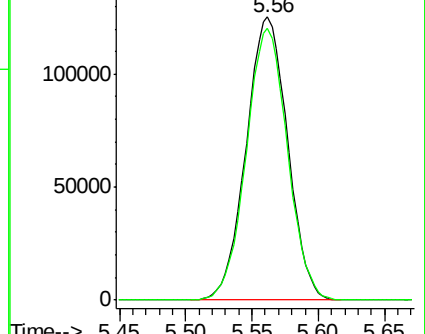
117 100

119 95.5 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: 48.89 ug/L

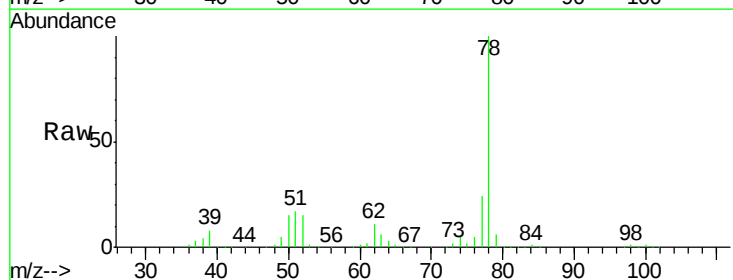
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

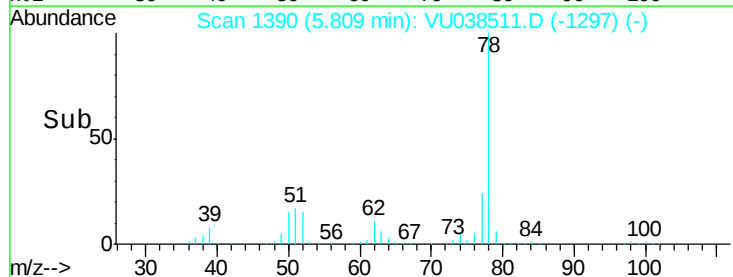
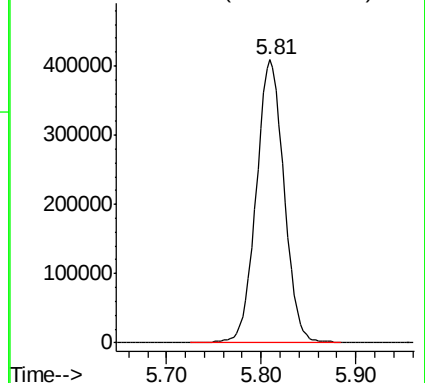
Lab File: VU038511.D

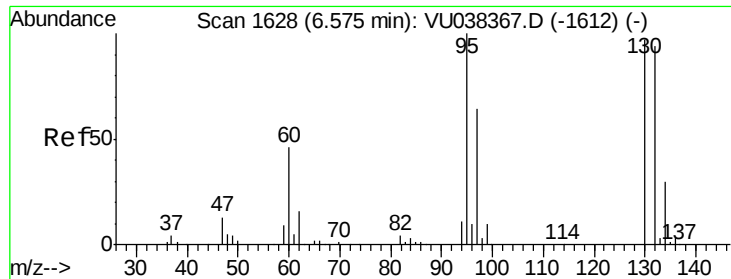
Acq: 03 Jun 2020 12:54

Tgt Ion: 78 Resp: 833282



Abundance Ion 78.00 (77.70 to 78.70): VU0

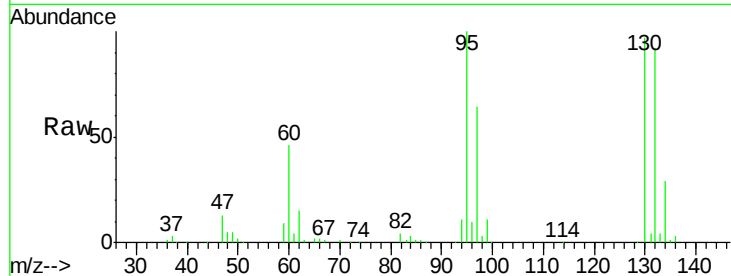




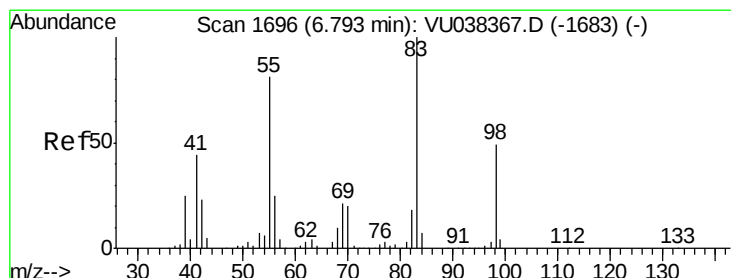
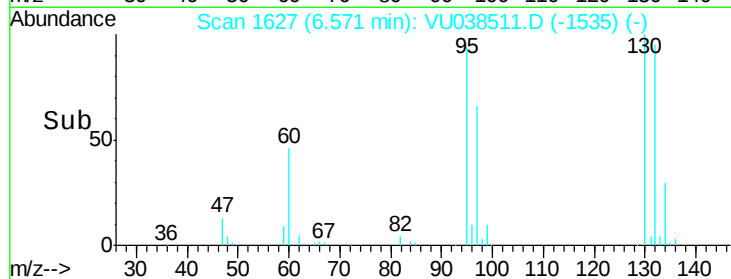
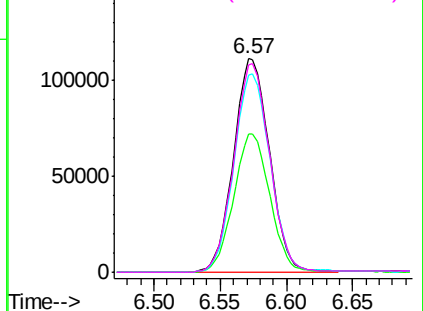
#34
 Trichloroethene
 Concen: 48.30 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion: 95 Resp: 210634
 Ion Ratio Lower Upper
 95 100
 97 64.5 44.3 82.3
 132 92.3 64.7 120.1
 130 97.1 68.5 127.1

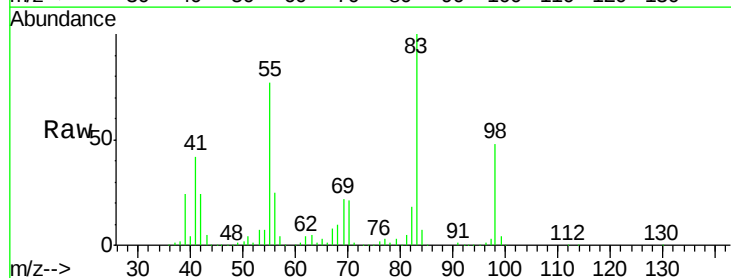


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

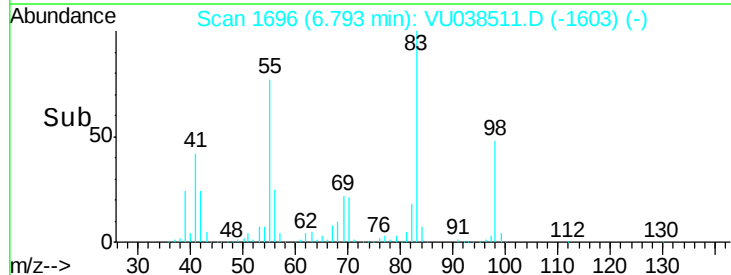
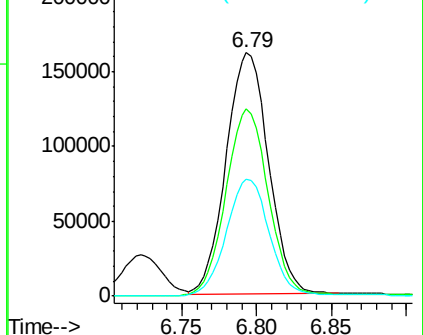


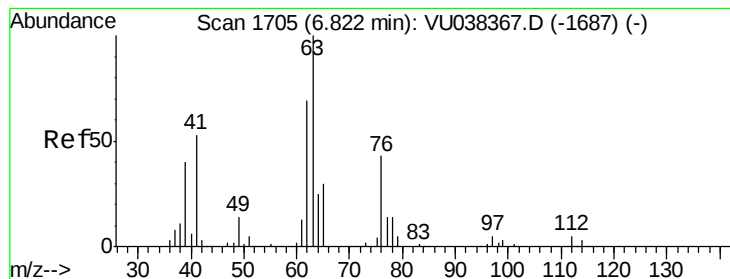
#35
 Methylcyclohexane
 Concen: 46.74 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion: 83 Resp: 319992
 Ion Ratio Lower Upper
 83 100
 55 77.9 63.0 94.4
 98 48.9 38.6 57.8



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: 48.67 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

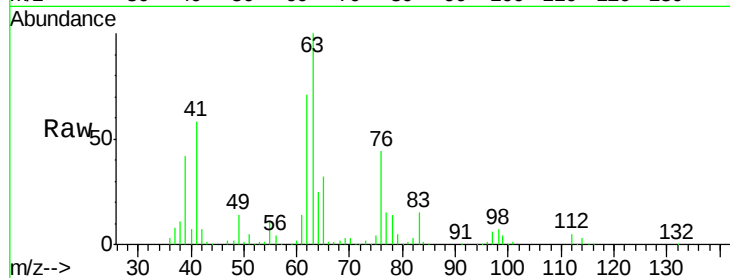
VSTD05042

Tgt Ion: 63 Resp: 215140

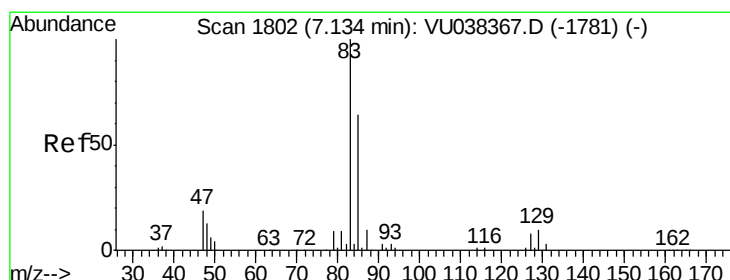
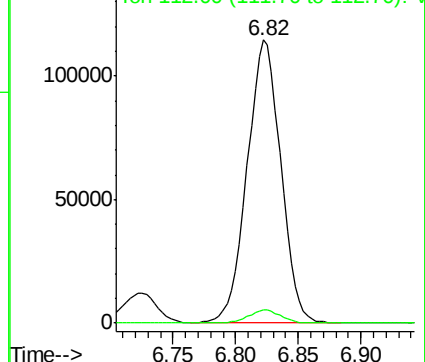
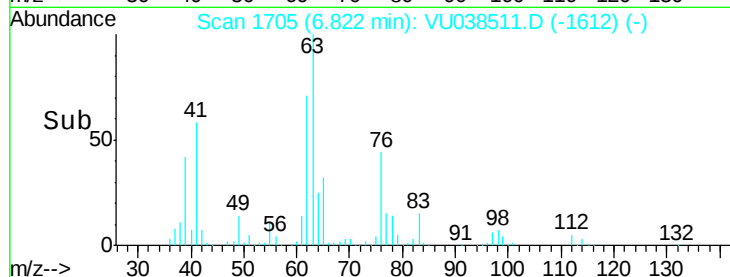
Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VU038511.D (-1612) (-)



#38

Bromodichloromethane

Concen: 49.48 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

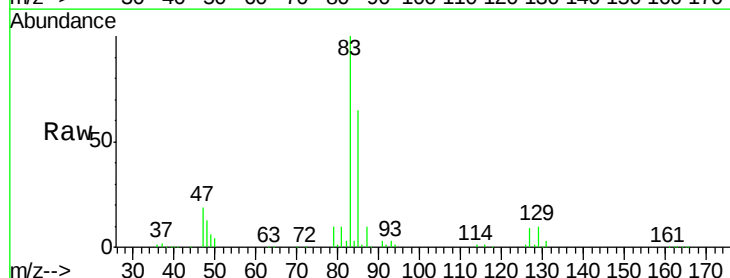
Tgt Ion: 83 Resp: 280294

Ion Ratio Lower Upper

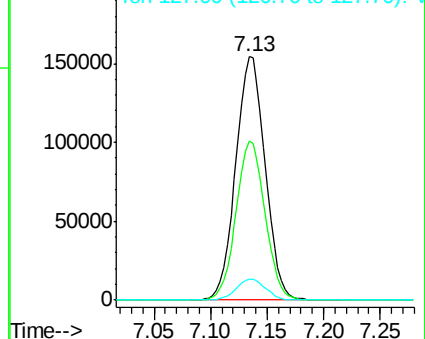
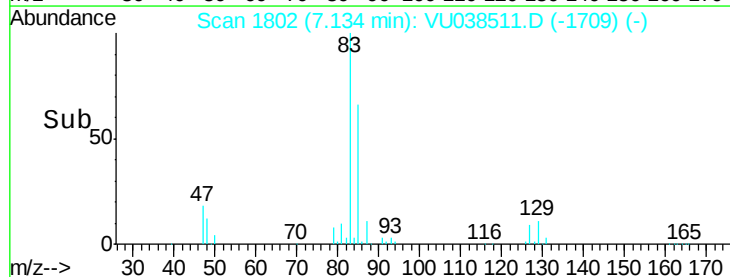
83 100

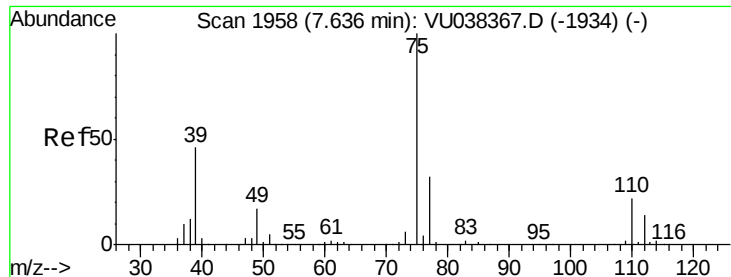
85 65.1 45.5 84.5

127 8.7 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU038511.D (-1709) (-)

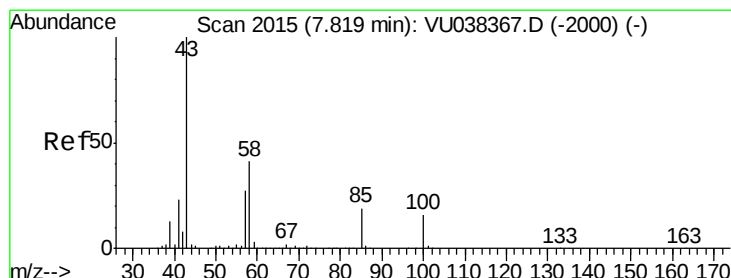
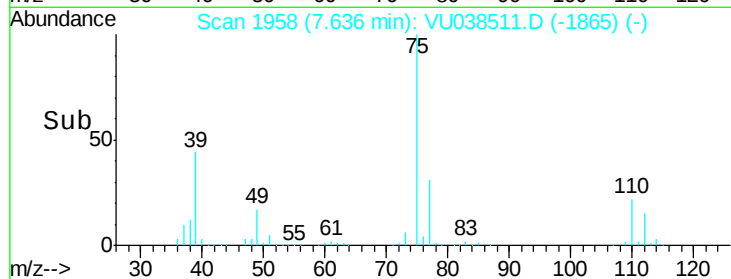
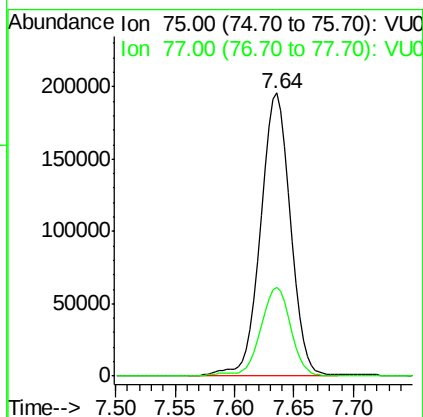
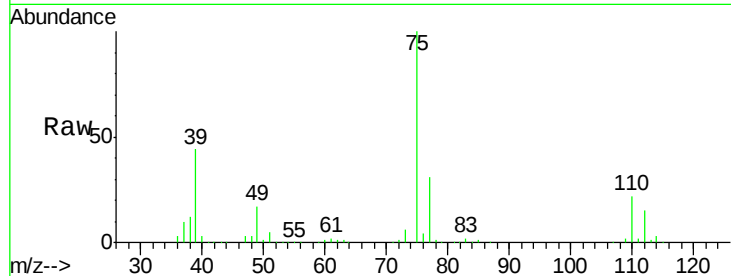




#39
 cis-1,3-Dichloropropene
 Concen: 48.63 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

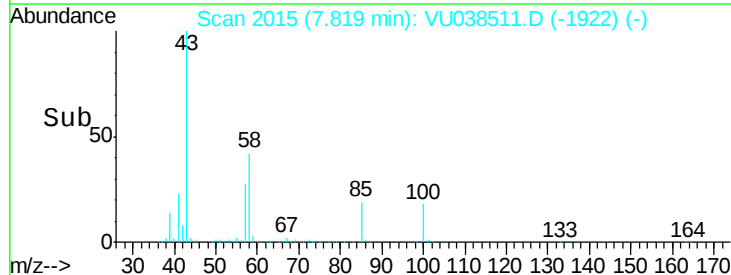
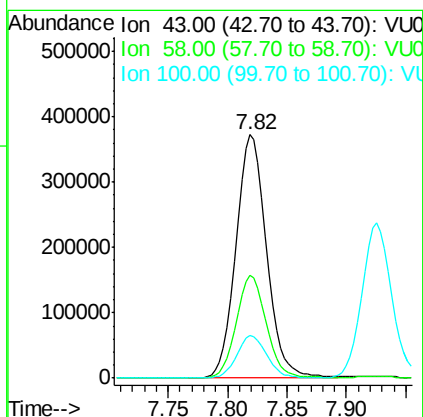
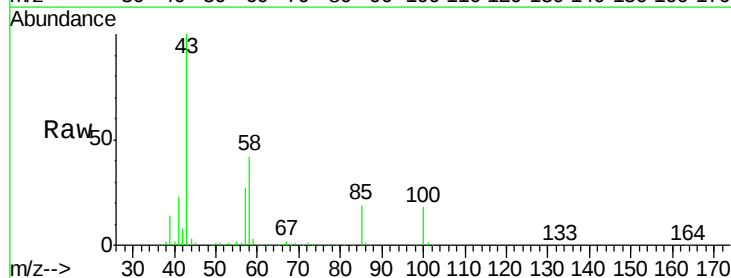
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

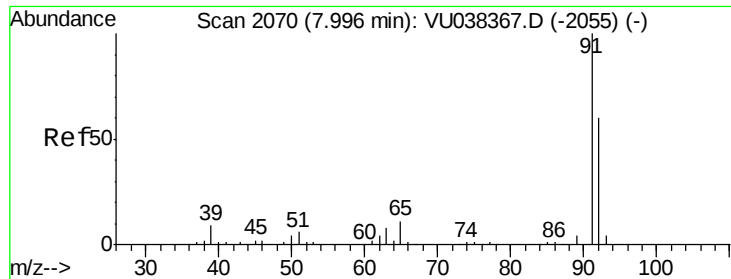
Tgt Ion: 75 Resp: 342089
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.6 40.0



#40
 4-Methyl-2-pentanone
 Concen: 94.55 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion: 43 Resp: 664702
 Ion Ratio Lower Upper
 43 100
 58 41.5 32.6 48.8
 100 17.3 12.9 19.3





#42

Toluene

Concen: 48.56 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

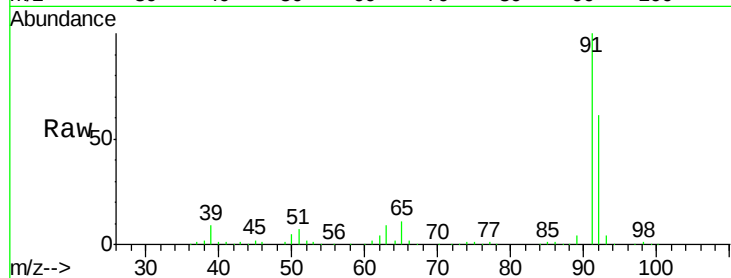
VSTD05042

Tgt Ion: 91 Resp: 868863

Ion Ratio Lower Upper

91 100

92 60.9 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU038367.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU038367.D (-2055) (-)

8.00

500000

400000

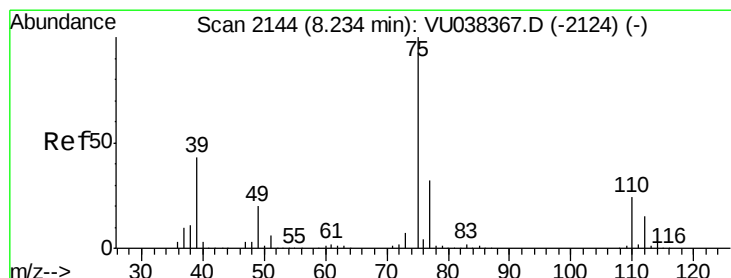
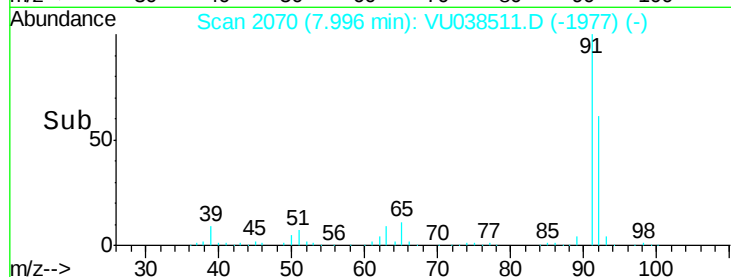
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.42 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU038511.D

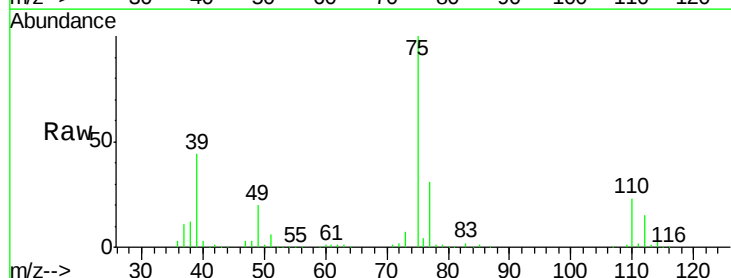
Acq: 03 Jun 2020 12:54

Tgt Ion: 75 Resp: 325375

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU038367.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU038367.D (-2124) (-)

8.23

200000

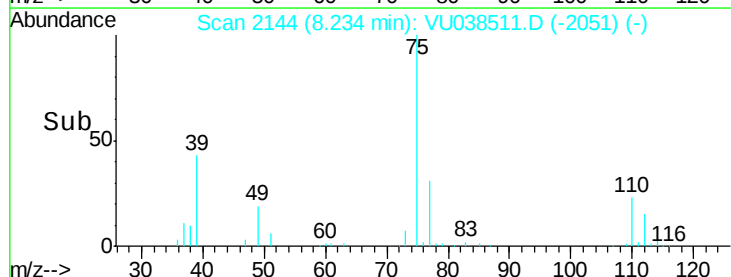
150000

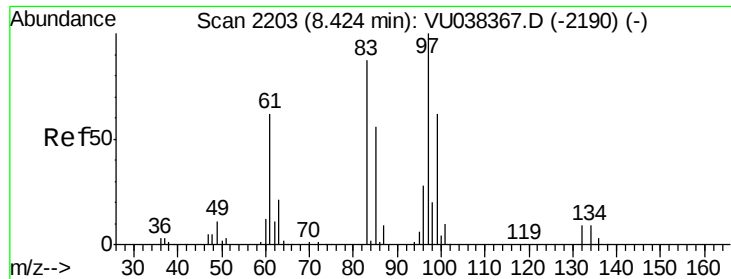
100000

50000

0

Time-->

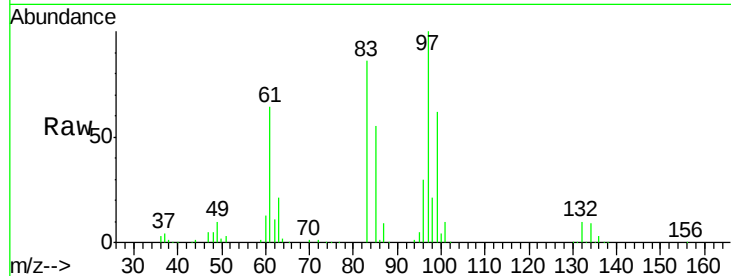




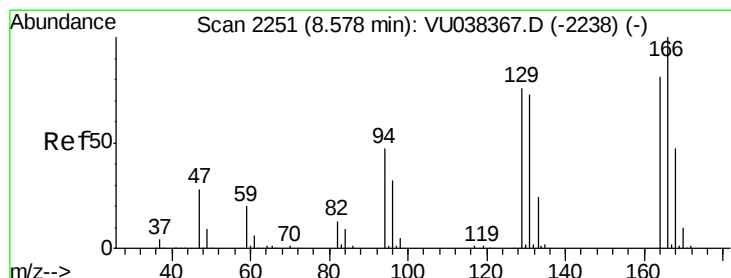
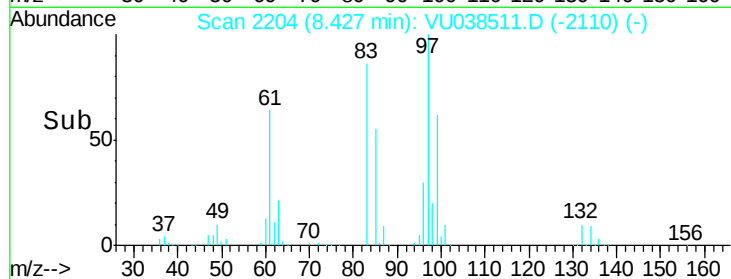
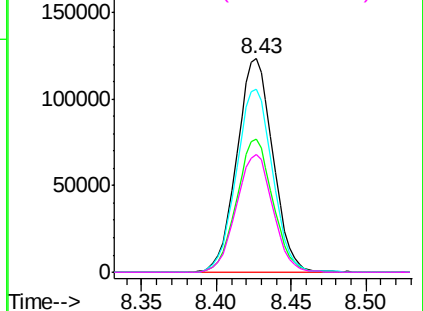
#45
 1,1,2-Trichloroethane
 Concen: 49.42 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion:	97	Resp:	207291
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.0	81.8
83	85.9	60.8	113.0
85	55.2	38.1	70.9

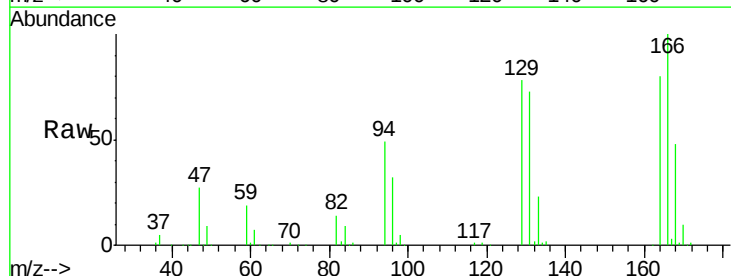


Abundance Ion 97.00 (96.70 to 97.70): VU038511.D (-2110) (-)

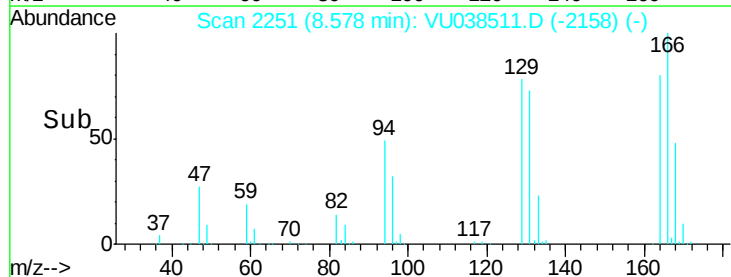
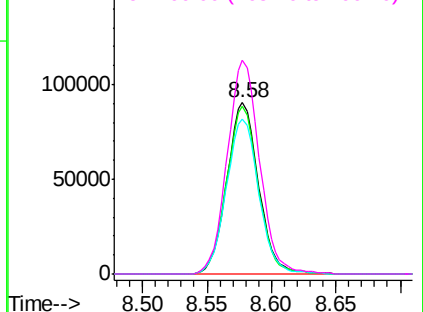


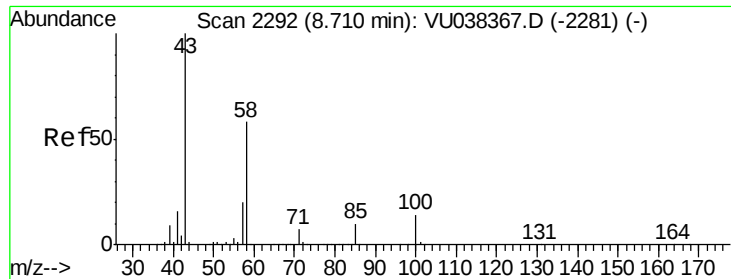
#46
 Tetrachloroethene
 Concen: 48.33 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion:	164	Resp:	154067
Ion	Ratio	Lower	Upper
164	100		
129	97.9	67.2	124.8
131	90.7	63.4	117.8
166	124.8	88.5	164.4



Abundance Ion 164.00 (163.70 to 164.70): VU038511.D (-2158) (-)

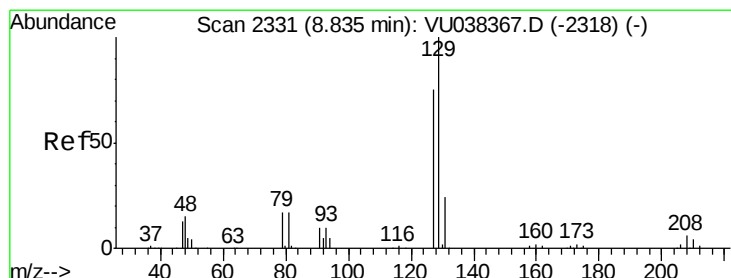
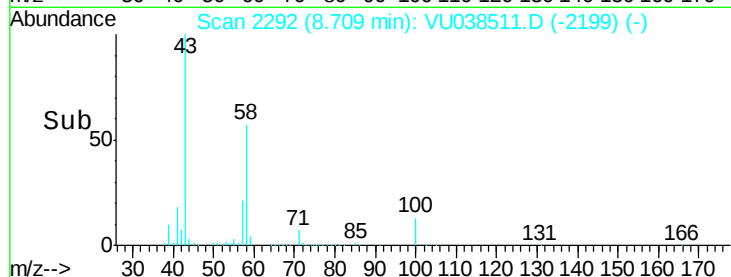
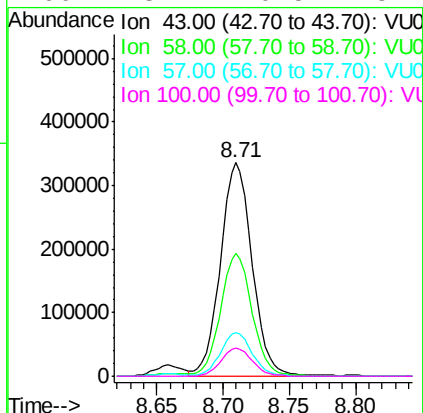
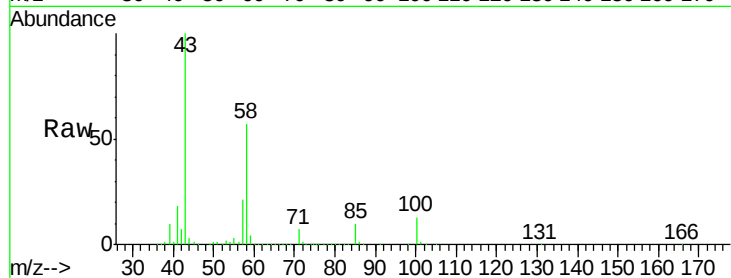




#48
2-Hexanone
Concen: 93.51 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

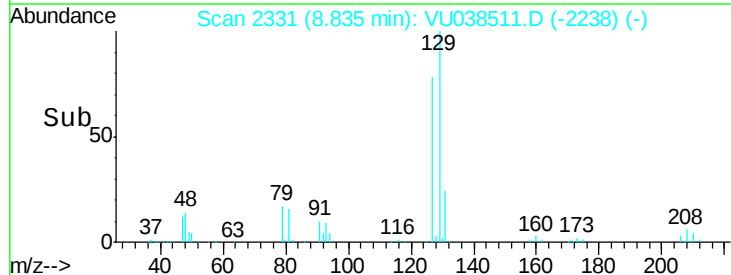
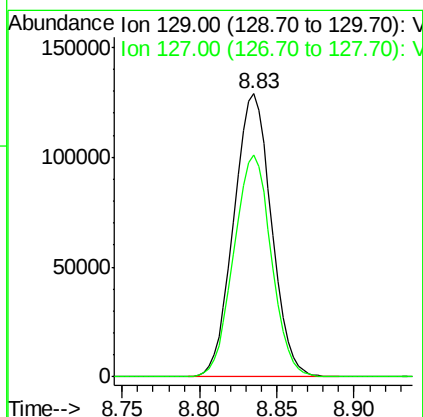
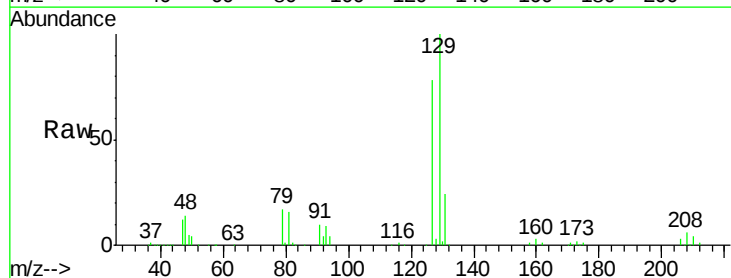
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

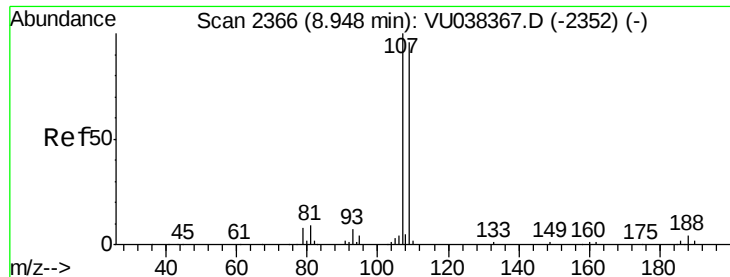
Tgt Ion: 43 Resp: 555041
Ion Ratio Lower Upper
43 100
58 57.6 45.5 68.3
57 20.7 16.3 24.5
100 13.2 10.5 15.7



#49
Dibromochloromethane
Concen: 51.37 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

Tgt Ion: 129 Resp: 218164
Ion Ratio Lower Upper
129 100
127 78.2 55.2 102.6

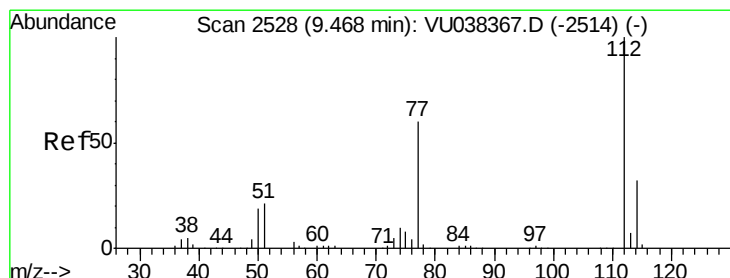
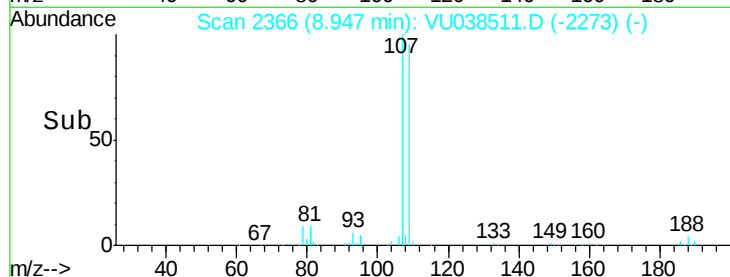
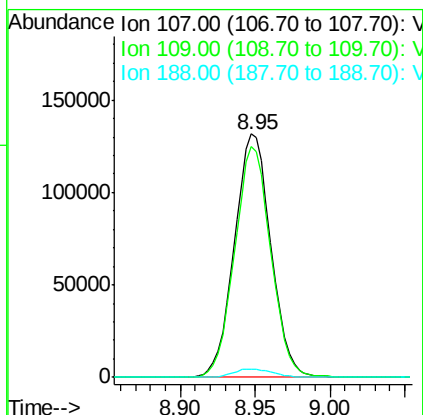
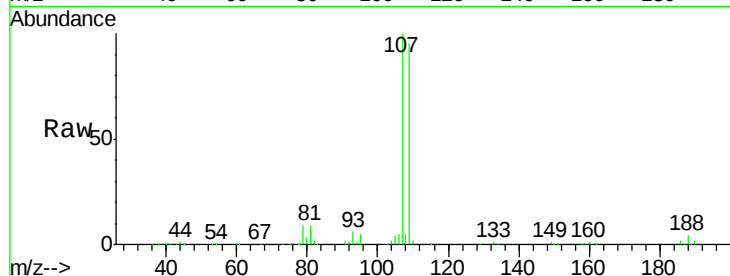




#50
1,2-Dibromoethane
Concen: 49.55 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

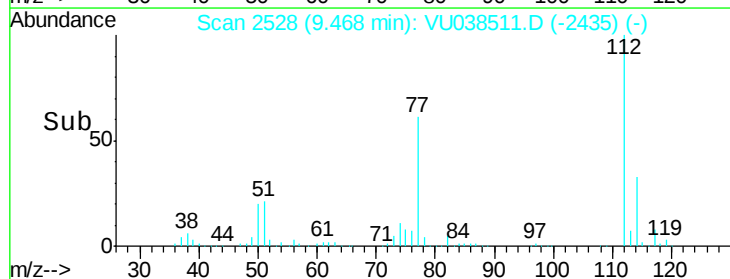
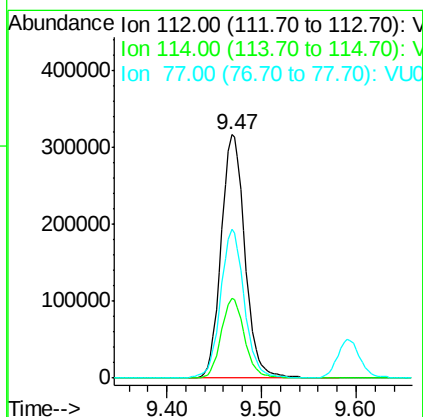
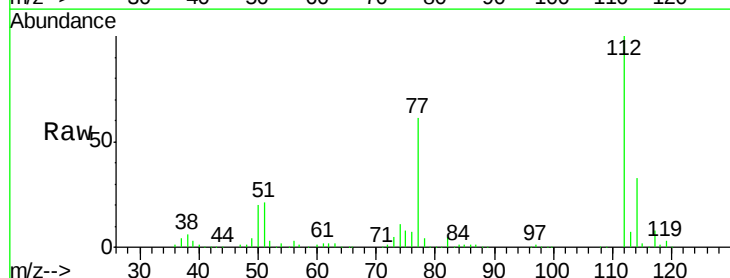
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

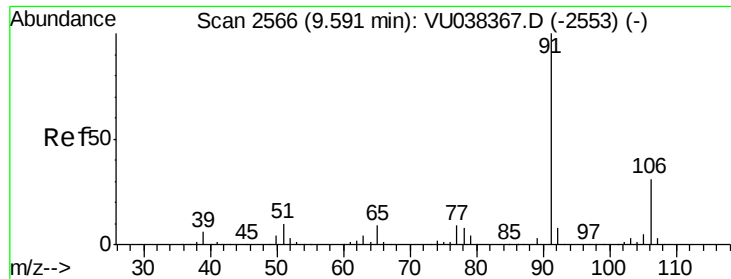
Tgt Ion:107 Resp: 223392
Ion Ratio Lower Upper
107 100
109 94.7 64.3 119.5
188 3.5 2.8 4.2



#51
Chlorobenzene
Concen: 48.10 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU038511.D
Acq: 03 Jun 2020 12:54

Tgt Ion:112 Resp: 553139
Ion Ratio Lower Upper
112 100
114 32.7 22.6 42.0
77 61.3 48.8 73.2





#52

Ethylbenzene

Concen: 48.35 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

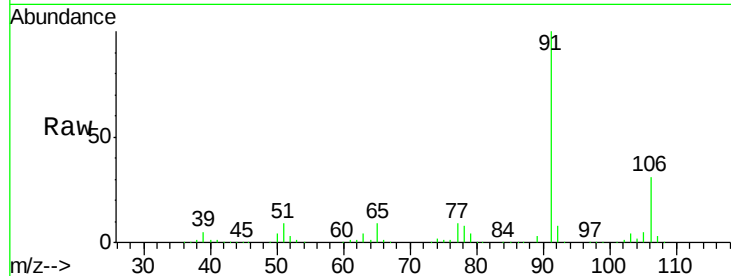
VSTD05042

Tgt Ion: 91 Resp: 969321

Ion Ratio Lower Upper

91 100

106 30.8 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038367.D (-2553) (-)

Ion 106.00 (105.70 to 106.70): VU038367.D (-2553) (-)

9.59

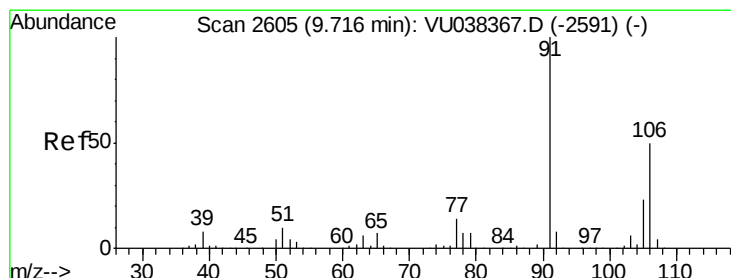
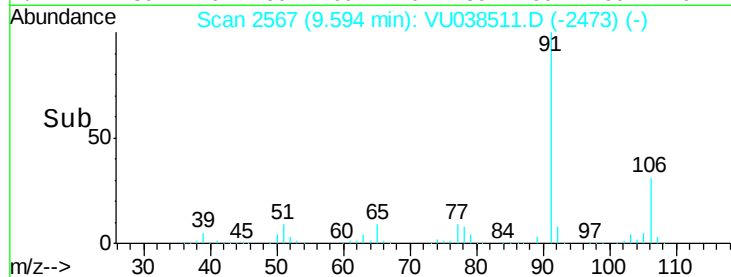
600000

400000

200000

0

Time-->



#53

m,p-Xylene

Concen: 49.67 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VU038511.D

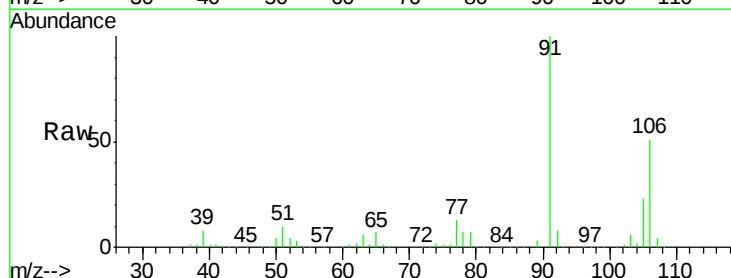
Acq: 03 Jun 2020 12:54

Tgt Ion: 106 Resp: 380847

Ion Ratio Lower Upper

106 100

91 197.1 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038367.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VU038367.D (-2591) (-)

9.72

500000

400000

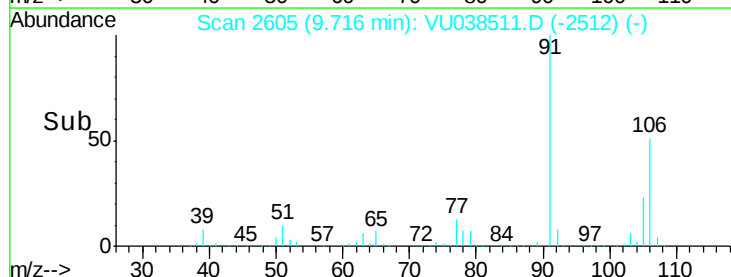
300000

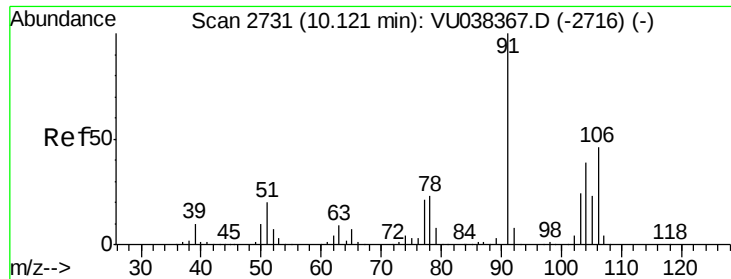
200000

100000

0

Time-->





#54

o-xylene

Concen: 48.90 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

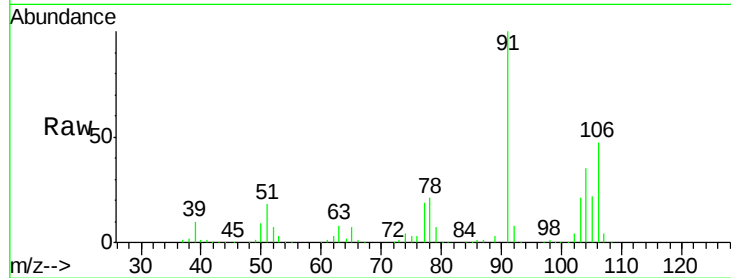
VSTD05042

Tgt Ion:106 Resp: 364548

Ion Ratio Lower Upper

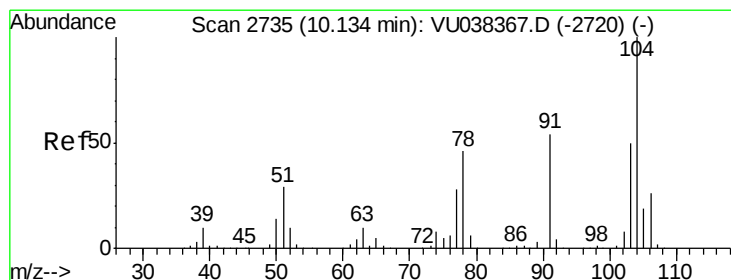
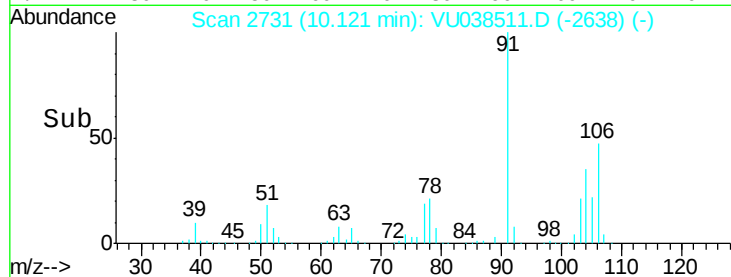
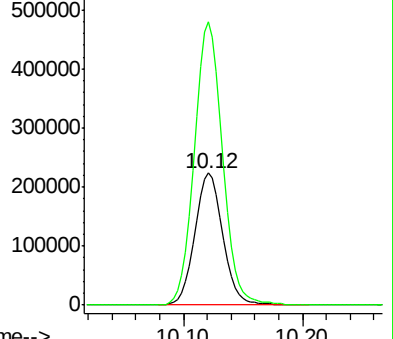
106 100

91 214.0 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.08 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU038511.D

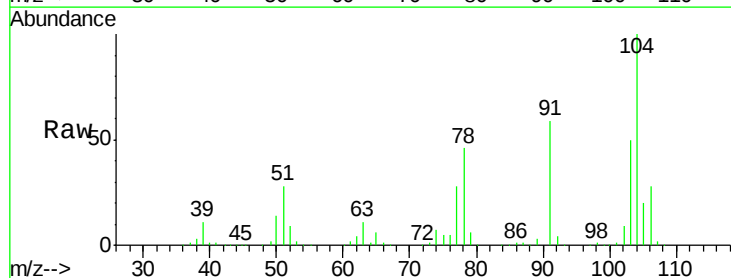
Acq: 03 Jun 2020 12:54

Tgt Ion:104 Resp: 641649

Ion Ratio Lower Upper

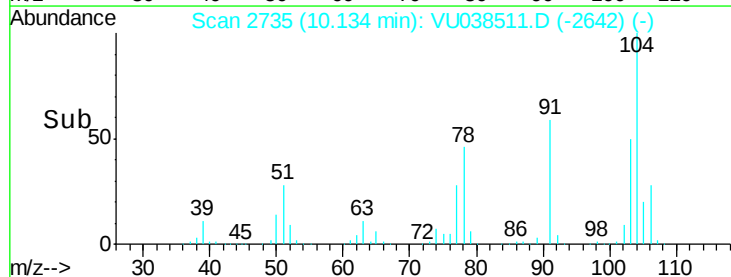
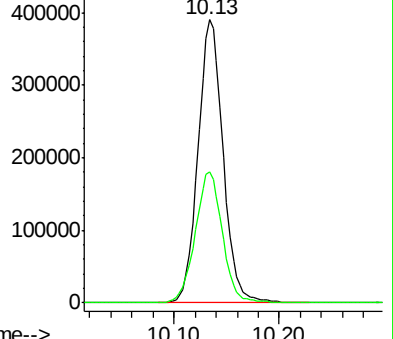
104 100

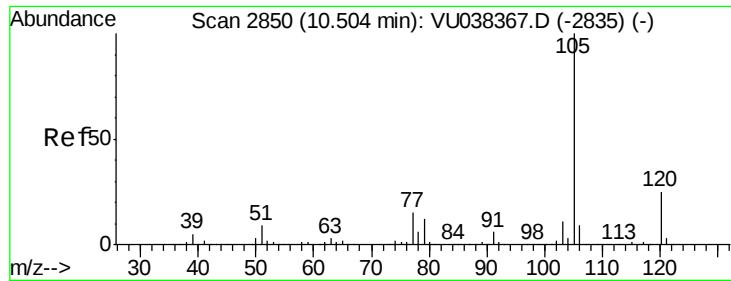
78 46.5 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.66 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

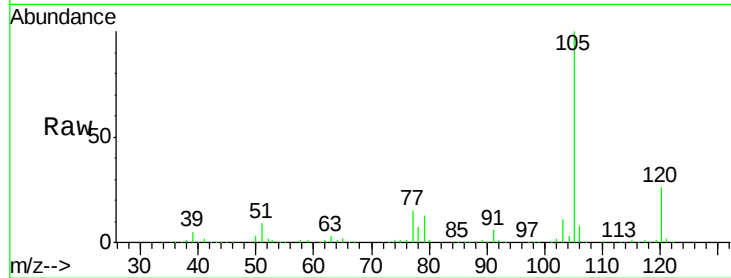
Tgt Ion: 105 Resp: 947938

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

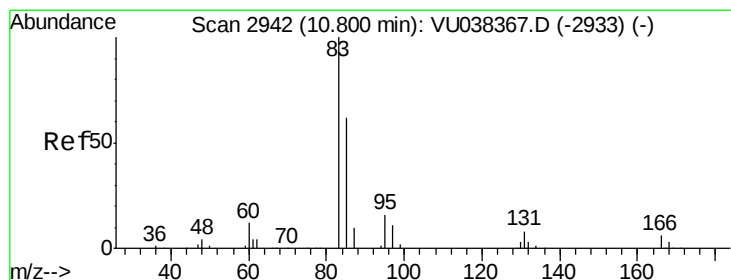
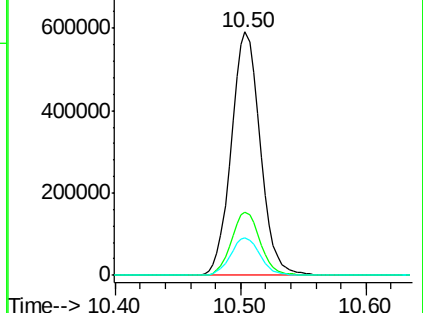
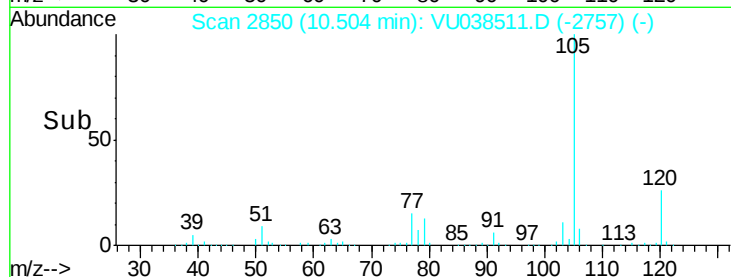
77 15.6 12.8 19.2



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: 48.62 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

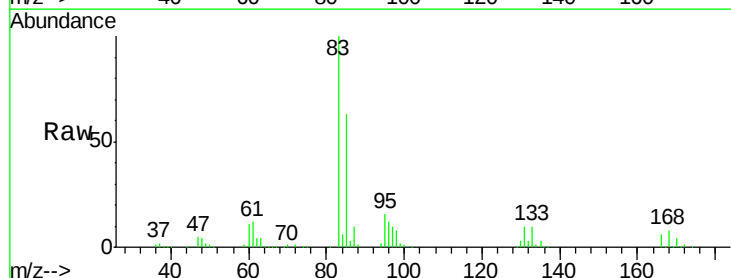
Tgt Ion: 83 Resp: 349050

Ion Ratio Lower Upper

83 100

85 62.7 45.5 84.5

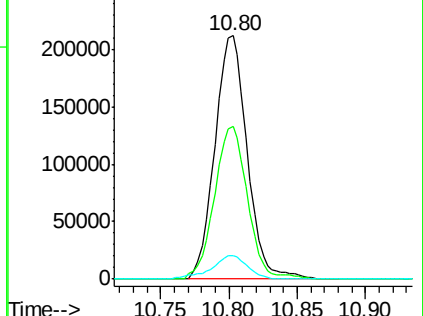
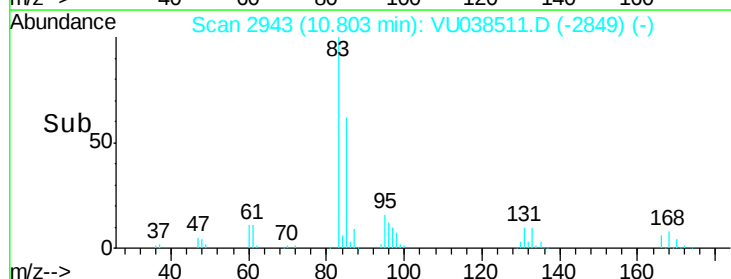
131 9.7 7.3 10.9

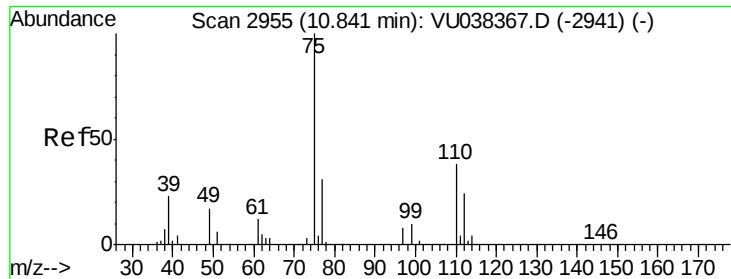


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.66 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

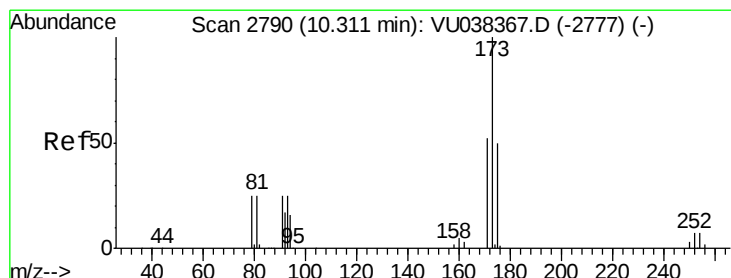
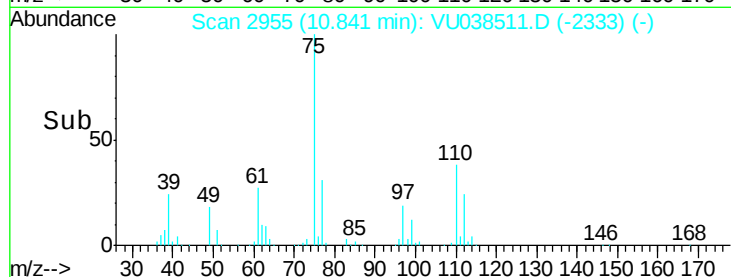
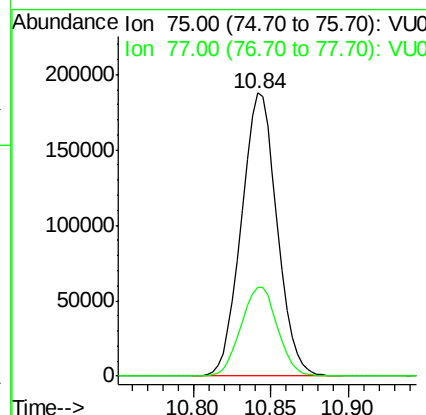
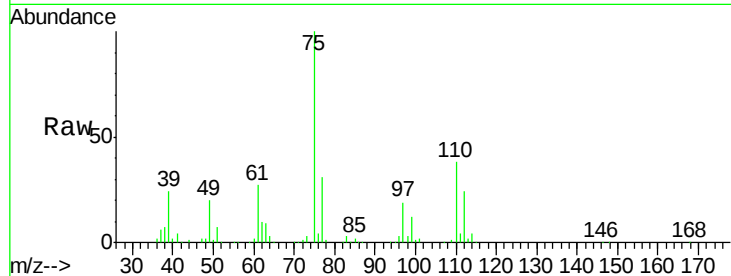
VSTD05042

Tgt Ion: 75 Resp: 300773

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



#61

Bromoform

Concen: 49.47 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

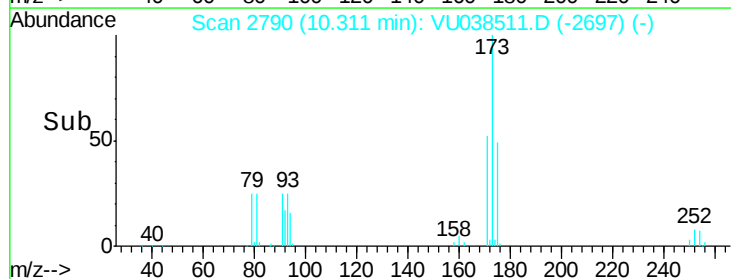
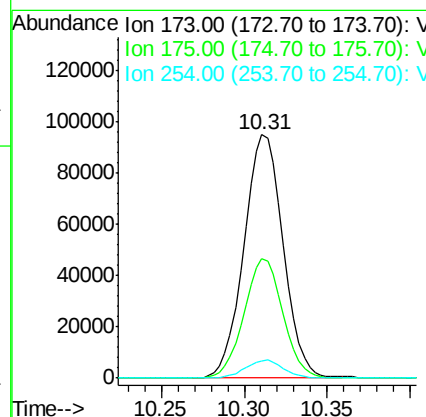
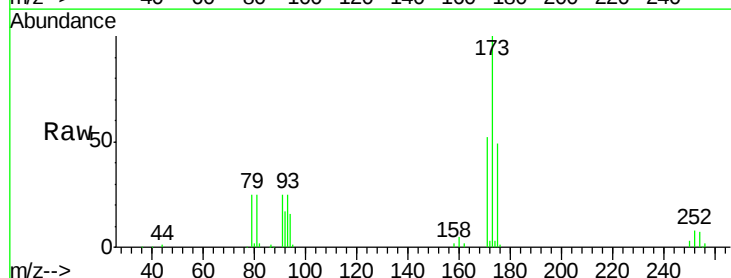
Tgt Ion: 173 Resp: 156310

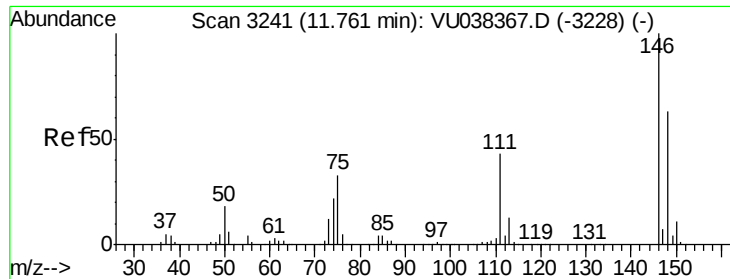
Ion Ratio Lower Upper

173 100

175 48.4 39.0 58.4

254 7.1 5.3 7.9





#62

1,3-Dichlorobenzene

Concen: 47.60 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

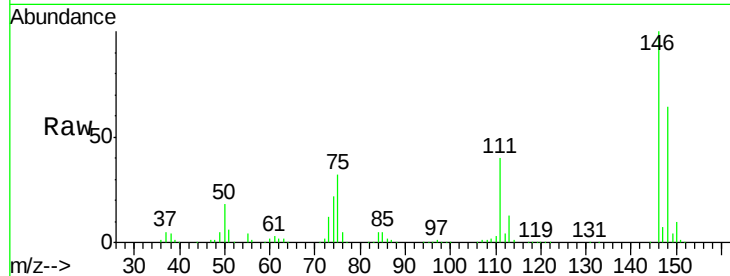
Tgt Ion:146 Resp: 437637

Ion Ratio Lower Upper

146 100

111 40.5 29.4 54.6

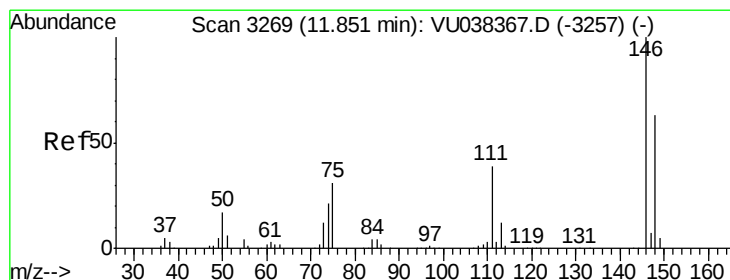
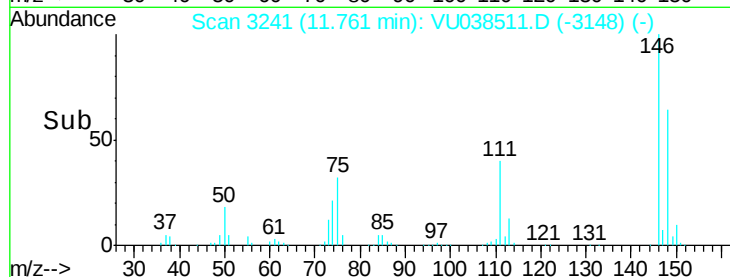
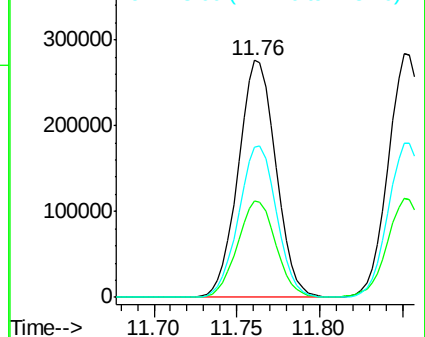
148 63.6 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.35 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

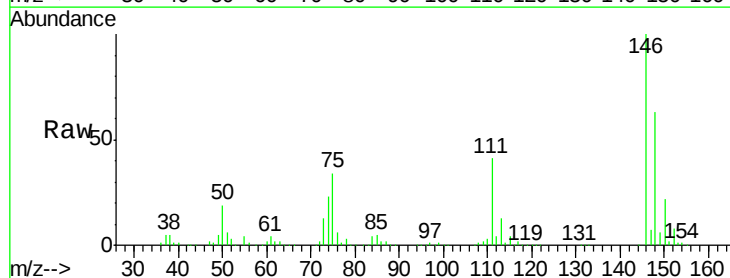
Tgt Ion:146 Resp: 442508

Ion Ratio Lower Upper

146 100

111 40.6 27.7 51.5

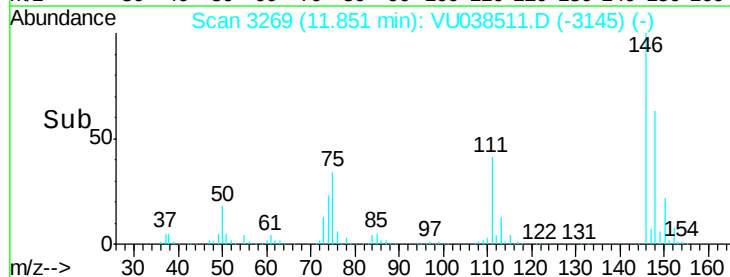
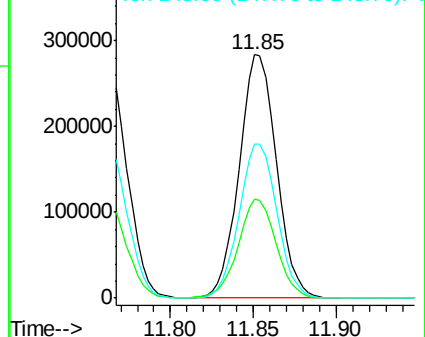
148 63.1 44.7 83.1

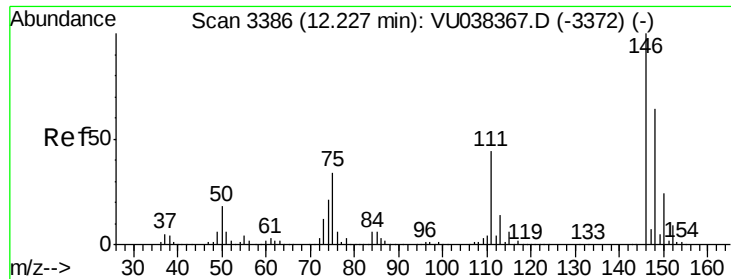


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

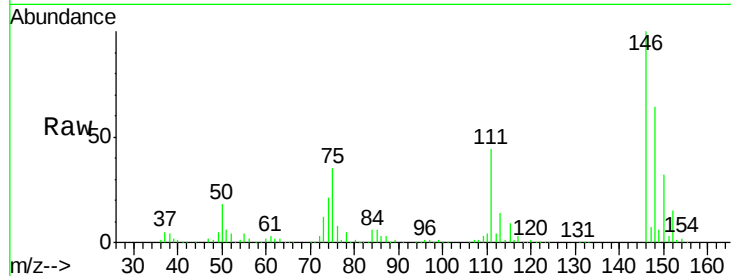




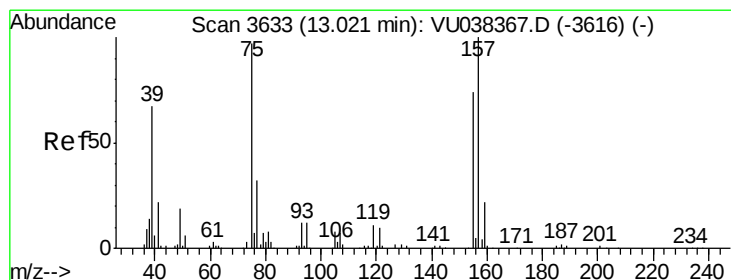
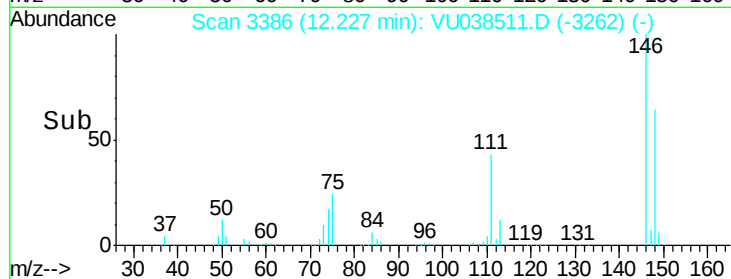
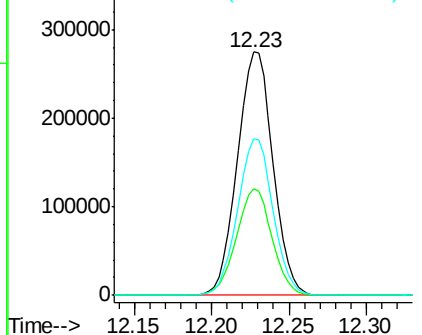
#65
 1,2-Dichlorobenzene
 Concen: 48.19 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion: 146 Resp: 439379
 Ion Ratio Lower Upper
 146 100
 111 43.8 35.3 52.9
 148 64.2 52.5 78.7

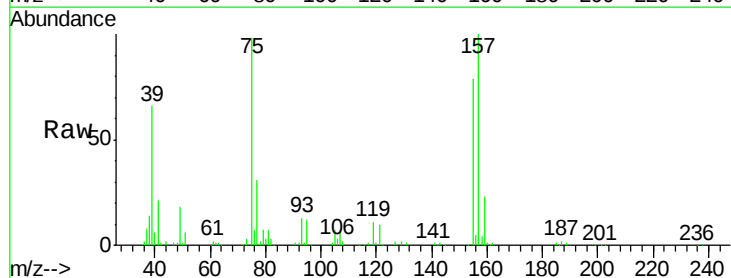


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

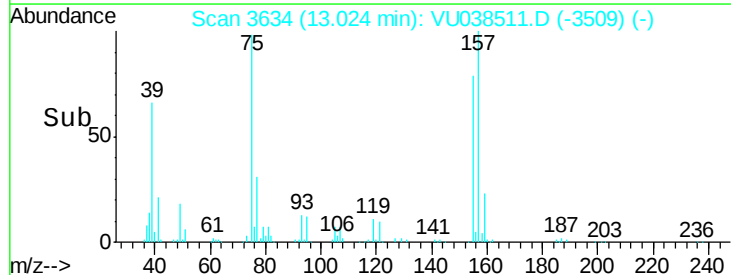
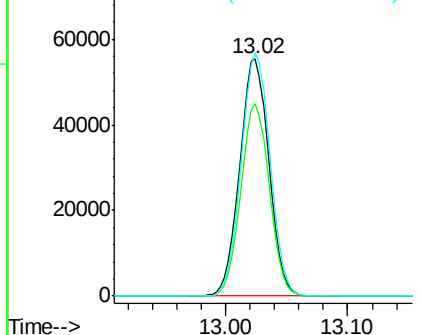


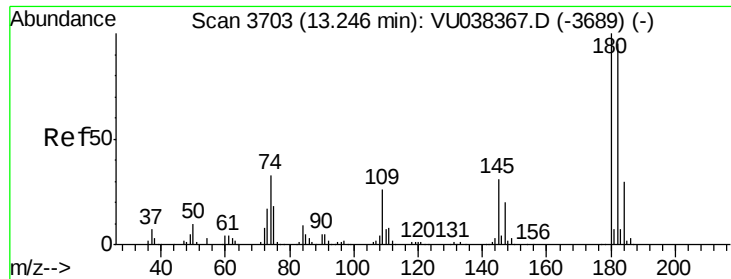
#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.81 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion: 75 Resp: 91098
 Ion Ratio Lower Upper
 75 100
 155 80.7 63.1 94.7
 157 102.4 82.7 124.1



Abundance Ion 75.00 (74.70 to 75.70): VUO
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

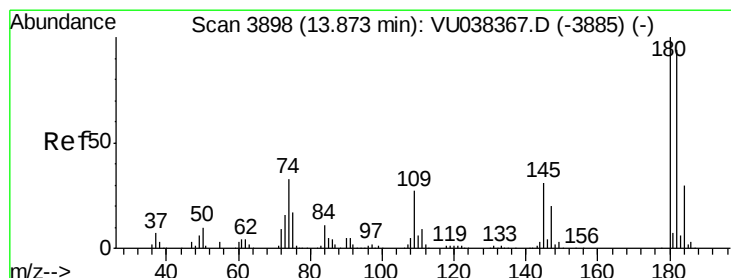
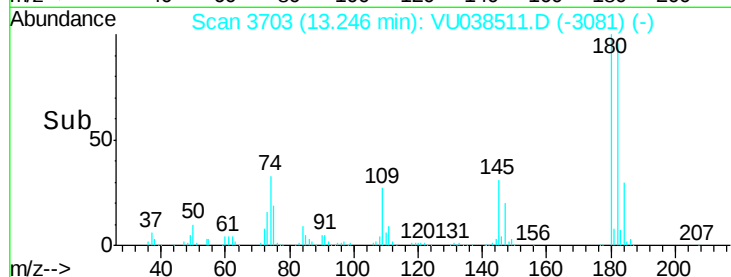
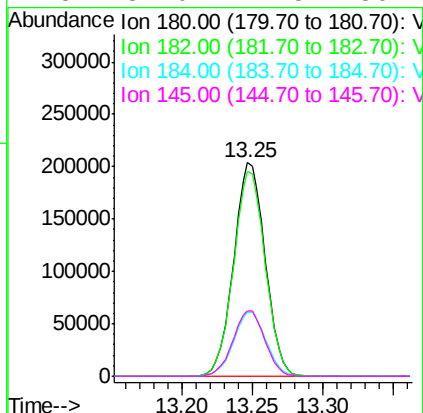
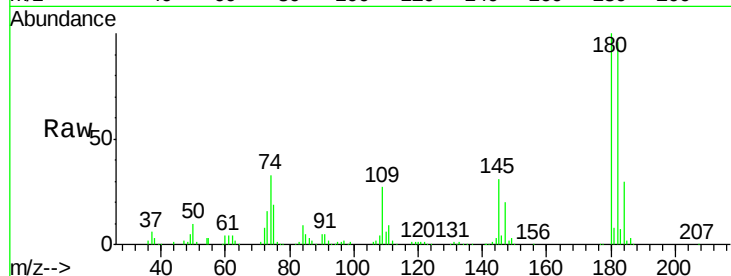




#67
 1,3,5-Trichlorobenzene
 Concen: 48.71 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

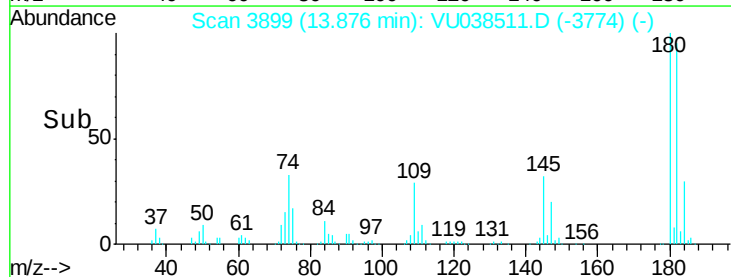
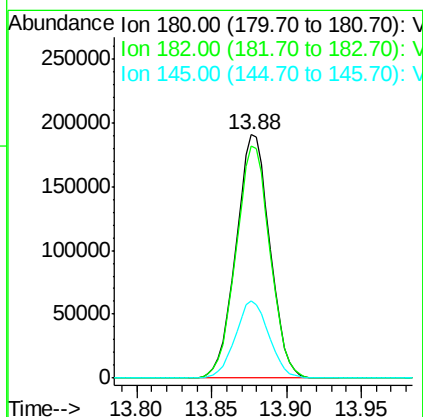
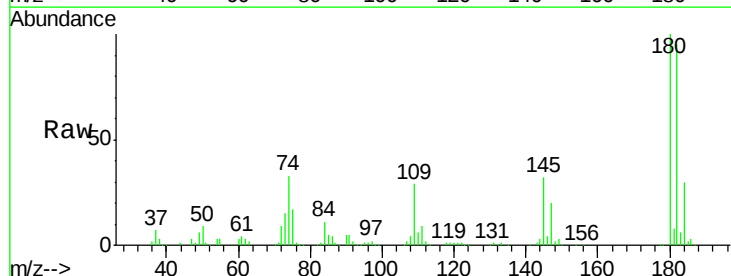
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

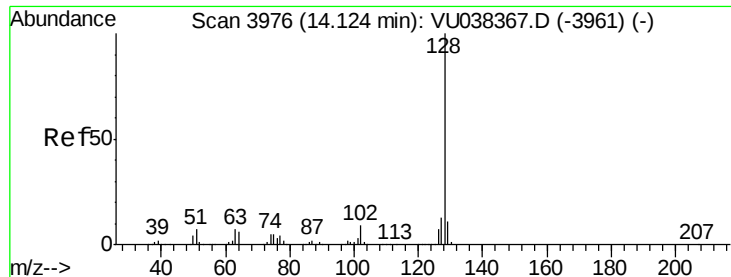
Tgt Ion:	180	Resp:	318716
Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.2
184	30.7	24.3	36.5
145	31.0	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 47.77 ug/L
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.00 min
 Lab File: VU038511.D
 Acq: 03 Jun 2020 12:54

Tgt Ion:	180	Resp:	299760
Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.1	115.7
145	31.6	25.8	38.8





#69

Naphthalene

Concen: 48.44 ug/L

RT: 14.13 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

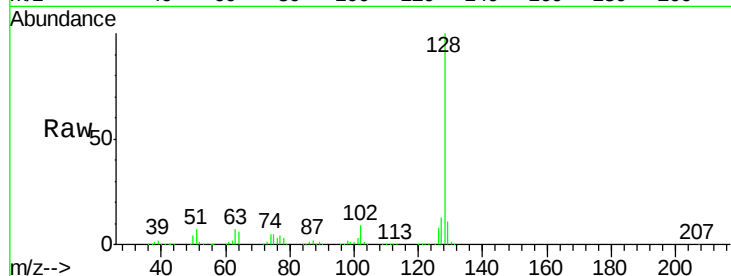
Tgt Ion:128 Resp: 1088321

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

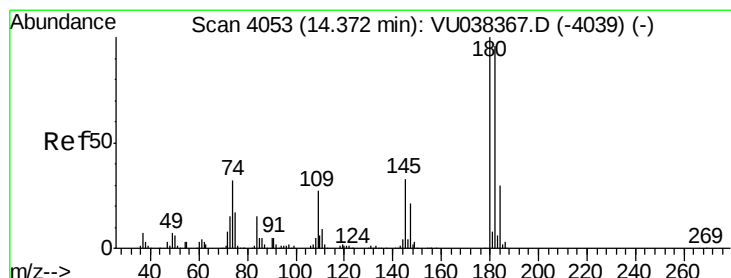
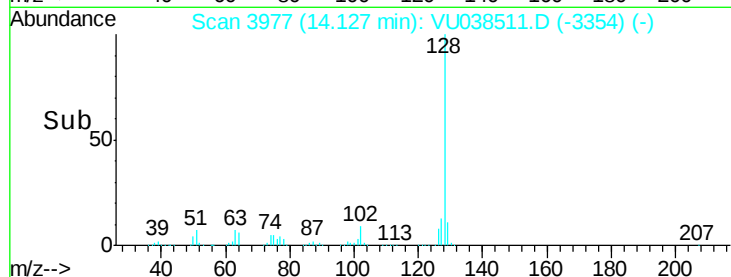
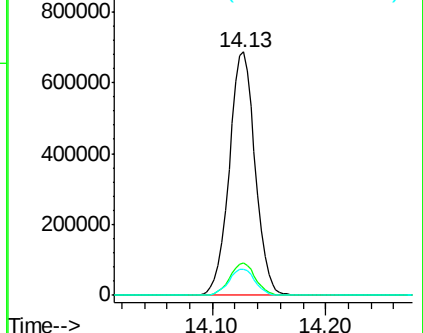
129 11.0 8.6 12.8



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: 49.21 ug/L

RT: 14.37 min Scan# 4054

Delta R.T. 0.00 min

Lab File: VU038511.D

Acq: 03 Jun 2020 12:54

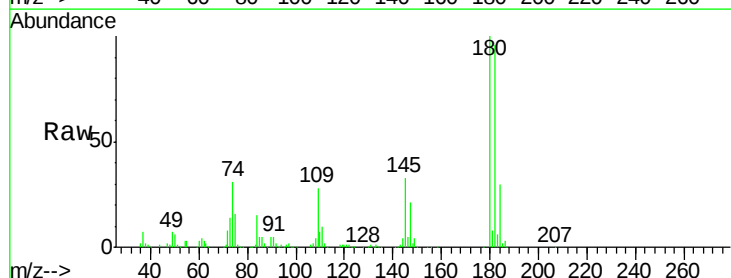
Tgt Ion:180 Resp: 308506

Ion Ratio Lower Upper

180 100

182 95.1 75.5 113.3

145 32.9 26.6 40.0



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

