

Data File : VU036651.D
Acq On : 31 Jan 2020 18:49
Operator : JC/MD
Sample : VSTD05032
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Quant Time: Jan 31 23:48:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM013120WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jan 31 23:45:14 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	287373	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	270081	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	122196	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	135821	59.38	ug/L	0.00
7) Chloroethane-d5	1.91	69	106836	55.66	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	211675	57.94	ug/L	0.00
21) 2-Butanone-d5	4.67	46	150637	114.35	ug/L	0.00
24) Chloroform-d	5.11	84	200496	55.35	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	127822	56.28	ug/L	0.00
32) Benzene-d6	5.77	84	420831	53.97	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	138359	56.32	ug/L	0.00
41) Toluene-d8	7.93	98	389966	52.40	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	67283	57.54	ug/L	0.00
47) 2-Hexanone-d5	8.67	63	152343	129.74	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	194502	54.46	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	130925	49.57	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	121580	54.005	ug/L	100
3) Chloromethane	1.54	50	143928	59.016	ug/L	100
5) Vinyl chloride	1.62	62	149359	57.689	ug/L	100
6) Bromomethane	1.85	94	80673	53.994	ug/L	100
8) Chloroethane	1.93	64	85336	55.344	ug/L	100
9) Trichlorofluoromethane	2.15	101	163928	54.588	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	95679	52.083	ug/L	100
12) 1,1-Dichloroethene	2.60	96	96268	52.932	ug/L	100
13) Acetone	2.66	43	136816	108.124	ug/L	100
14) Carbon disulfide	2.82	76	287034	52.275	ug/L	100
15) Methyl Acetate	2.98	43	128840	63.147	ug/L	100
16) Methylene chloride	3.08	84	117255	53.238	ug/L	100
17) trans-1,2-Dichloroethene	3.39	96	101328	52.217	ug/L	100
18) Methyl tert-butyl Ether	3.41	73	362959	57.248	ug/L	100
19) 1,1-Dichloroethane	3.91	63	203536	57.434	ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	118123	53.520	ug/L	100
22) 2-Butanone	4.75	43	191194	122.916	ug/L	100
23) Bromochloromethane	5.02	128	54207	48.340	ug/L	100
25) Chloroform	5.13	83	195945	54.578	ug/L	100
27) 1,2-Dichloroethane	5.84	62	160522	58.778	ug/L	100
29) Cyclohexane	5.43	56	195312	59.621	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	160410	54.964	ug/L	100
31) Carbon tetrachloride	5.56	117	130622	52.767	ug/L	100
33) Benzene	5.82	78	459938	55.358	ug/L	100
34) Trichloroethene	6.58	95	110702	52.276	ug/L	100
35) Methylcyclohexane	6.80	83	192694	54.084	ug/L	100
37) 1,2-Dichloropropane	6.83	63	124311	58.301	ug/L	100
38) Bromodichloromethane	7.14	83	149693	56.436	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	197295	57.711	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	367414	129.739	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	490335	54.581	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	172019	57.374	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	110449	52.896	ug/L	100
46) Tetrachloroethene	8.58	164	78879	47.187	ug/L	100
48) 2-Hexanone	8.72	43	286696	134.732	ug/L	100
49) Dibromochloromethane	8.84	129	111386	51.118	ug/L	100
50) 1,2-Dibromoethane	8.95	107	117743	52.692	ug/L	100
51) Chlorobenzene	9.47	112	287745	50.041	ug/L	100
52) Ethylbenzene	9.60	91	537334	54.475	ug/L	100
53) m,p-Xylene	9.72	106	198100	52.087	ug/L	100
54) o-xylene	10.12	106	199763	52.658	ug/L	100
55) Styrene	10.14	104	340933	55.012	ug/L	100
56) Isopropylbenzene	10.51	105	513177	53.022	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	200382	55.221	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	160772	56.179	ug/L	100
61) Bromoform	10.32	173	79851	49.227	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	212574	50.847	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	210494	51.081	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	215495	50.876	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.01	75	43514	61.691	ug/L	100
67) 1,3,5-Trichlorobenzene	13.23	180	145534	51.035	ug/L	100
68) 1,2,4-trichlorobenzene	13.85	180	121907	58.650	ug/L	100
69) Naphthalene	14.10	128	461236	71.356	ug/L	100
70) 1,2,3-Trichlorobenzene	14.34	180	125039	58.238	ug/L	100

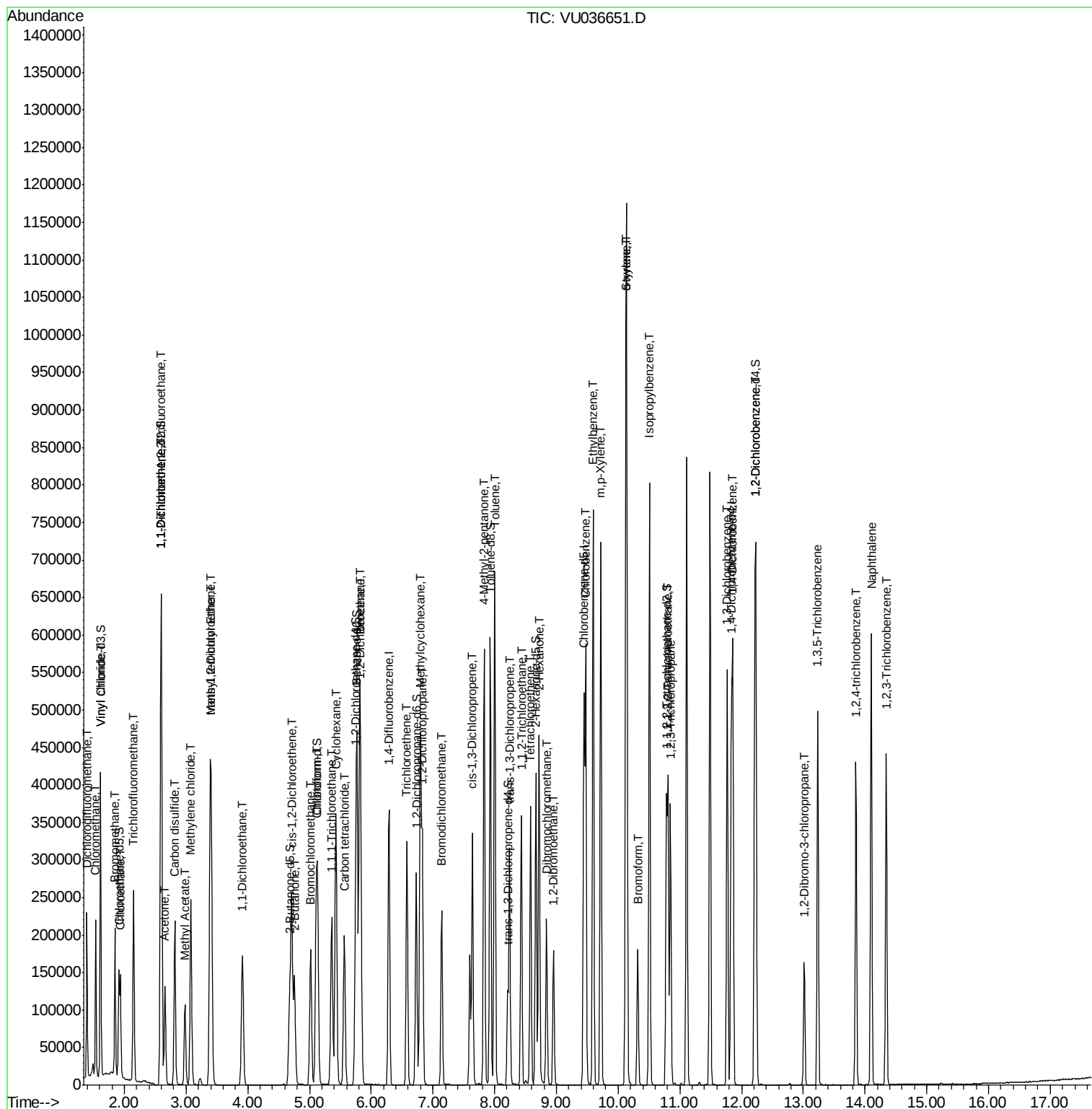
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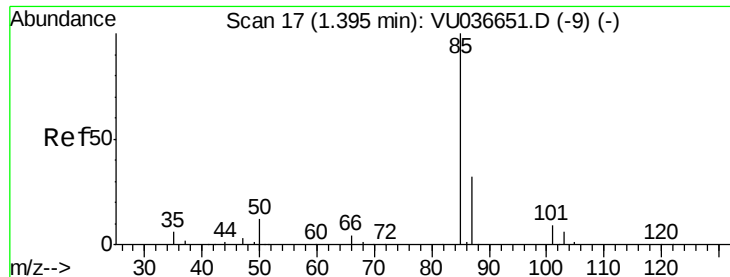
Data File : VU036651.D

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#2

Dichlorodifluoromethane

Concen: 54.005 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

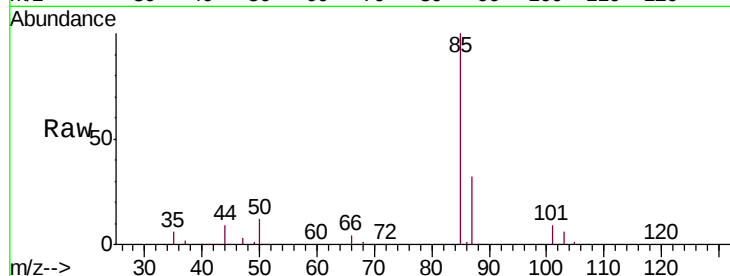
VSTD05032

Tgt Ion: 85 Resp: 121580

Ion Ratio Lower Upper

85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU036651.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036651.D (-9) (-)

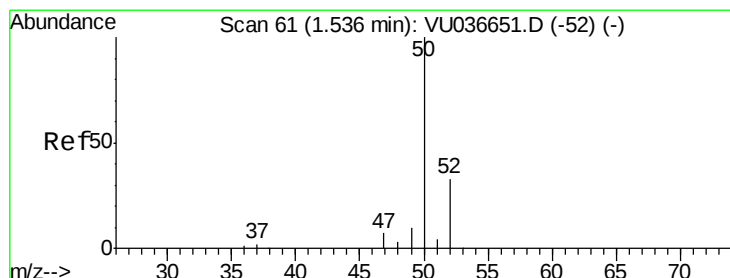
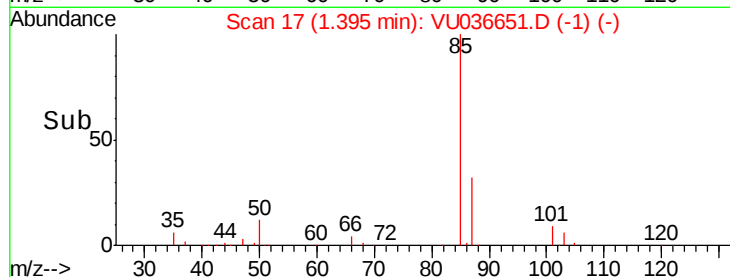
1.39

100000

50000

0

Time-->



#3

Chloromethane

Concen: 59.016 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036651.D

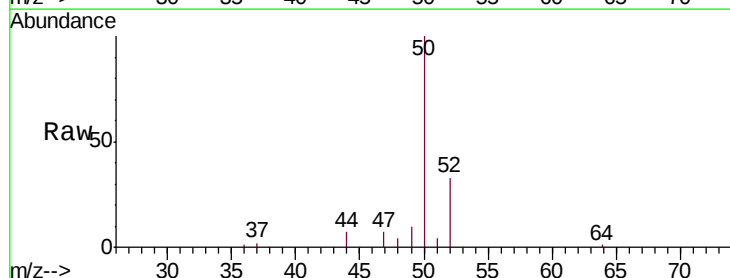
Acq: 31 Jan 2020 18:49

Tgt Ion: 50 Resp: 143928

Ion Ratio Lower Upper

50 100

52 32.6 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU036651.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU036651.D (-52) (-)

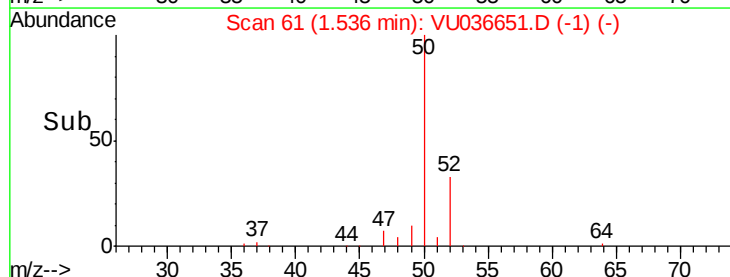
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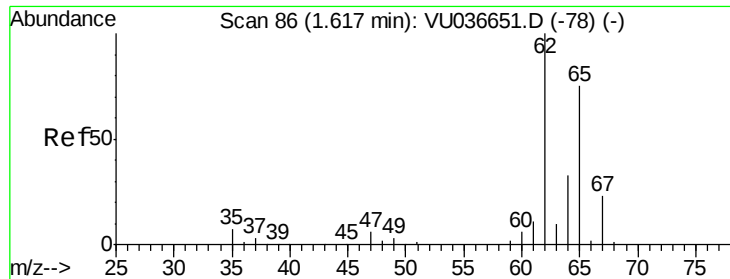
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 57.689 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

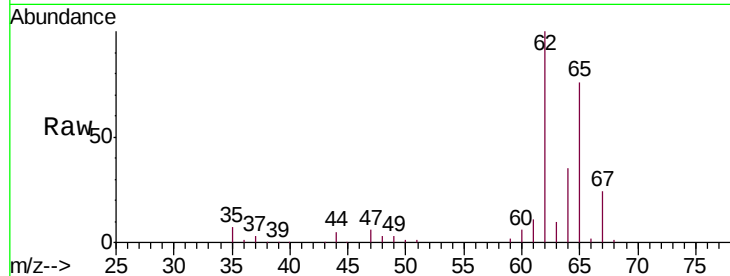
VSTD05032

Tgt Ion: 62 Resp: 149359

Ion Ratio Lower Upper

62 100

64 35.3 24.7 45.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.62

150000

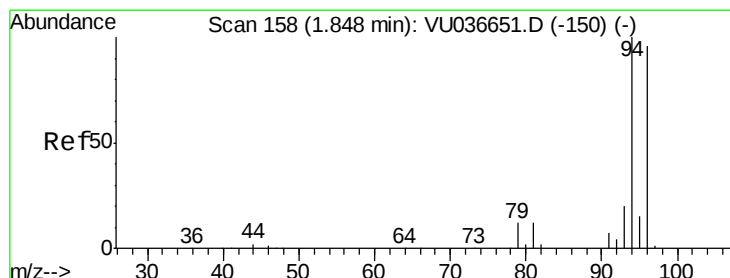
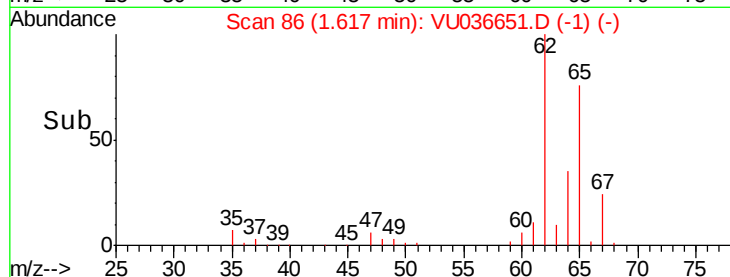
100000

50000

0

Time-->

1.60 1.65 1.70



#6

Bromomethane

Concen: 53.994 ug/L

RT: 1.85 min Scan# 158

Delta R.T. 0.00 min

Lab File: VU036651.D

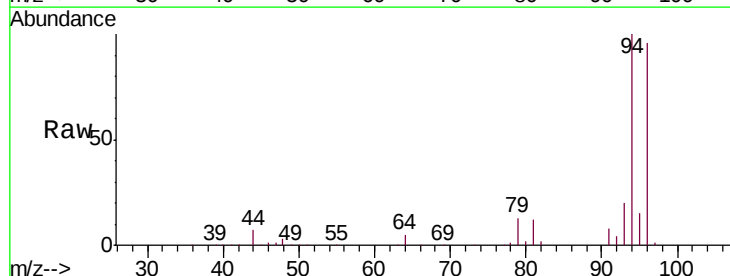
Acq: 31 Jan 2020 18:49

Tgt Ion: 94 Resp: 80673

Ion Ratio Lower Upper

94 100

96 96.2 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.85

80000

60000

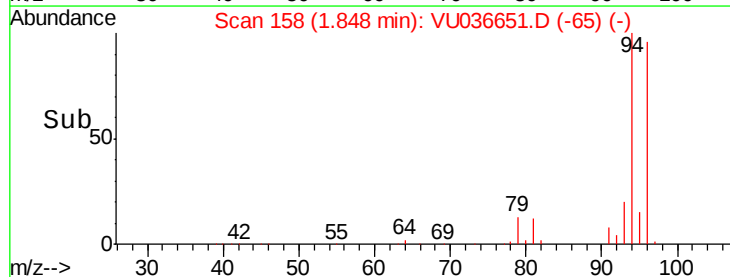
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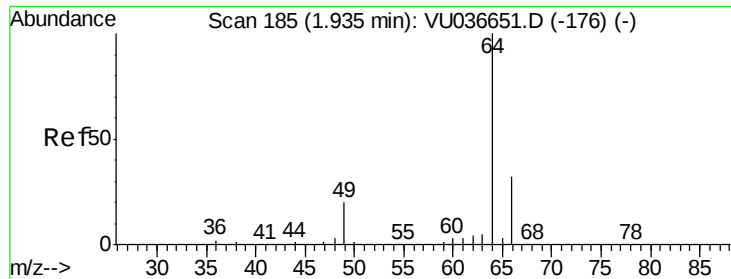
20000

0

Time-->

1.80 1.85 1.90





#8

Chloroethane

Concen: 55.344 ug/L

RT: 1.93 min Scan# 185

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

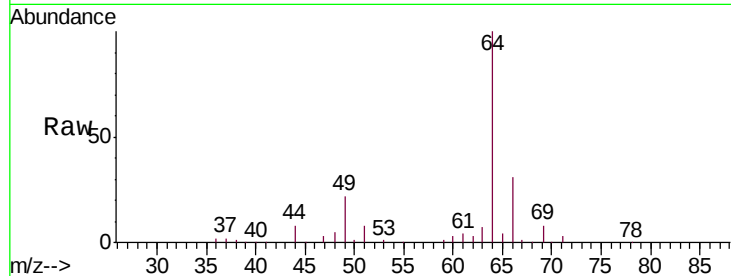
VSTD05032

Tgt Ion: 64 Resp: 85336

Ion Ratio Lower Upper

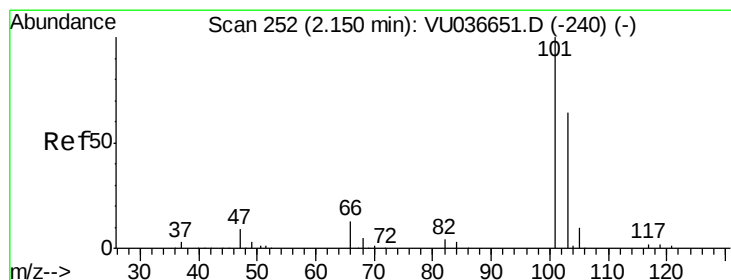
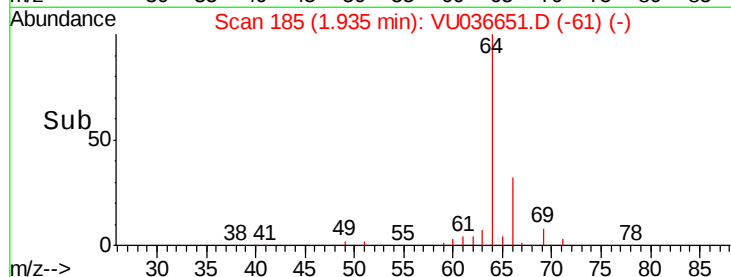
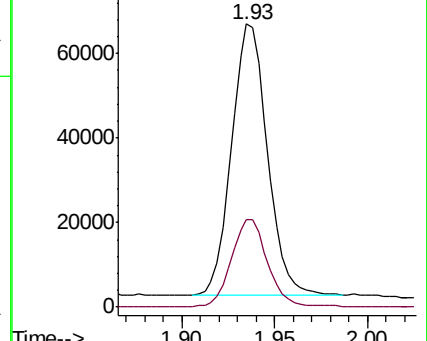
64 100

66 31.1 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VU036651.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU036651.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 54.588 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU036651.D

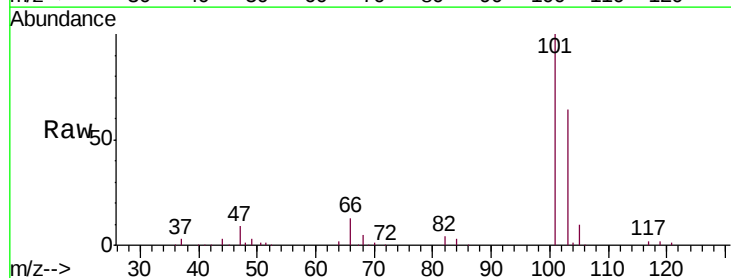
Acq: 31 Jan 2020 18:49

Tgt Ion: 101 Resp: 163928

Ion Ratio Lower Upper

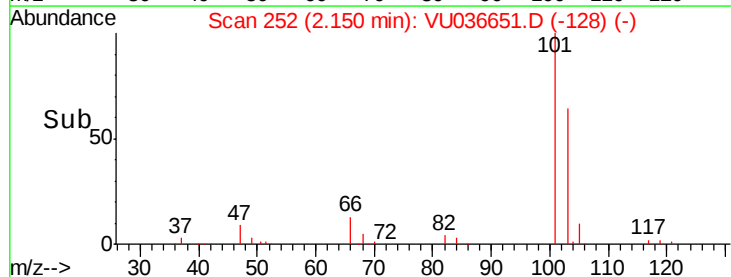
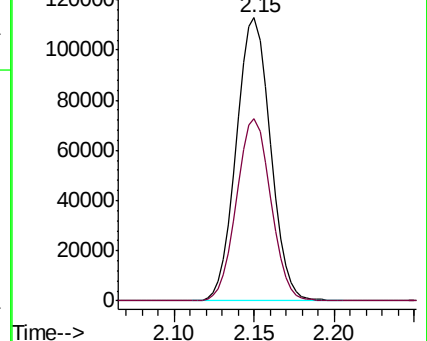
101 100

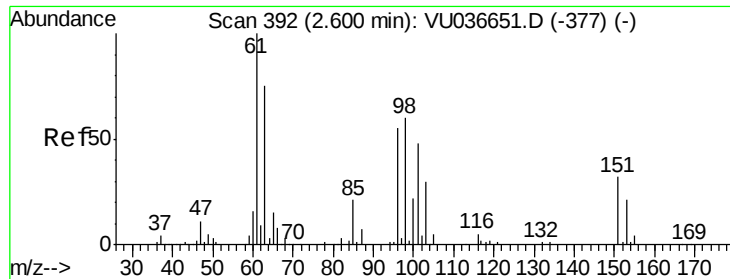
103 64.5 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU036651.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU036651.D (-240) (-)





#10

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

Concen: 52.083 ug/L

RT: 2.60 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

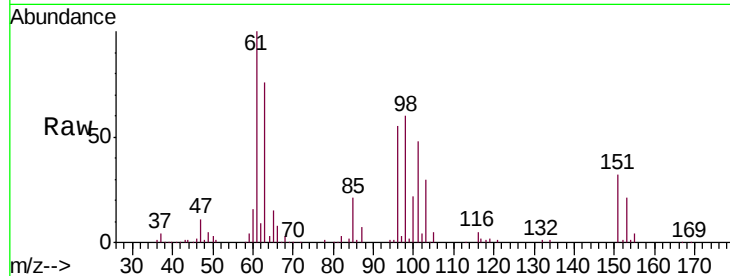
Tgt Ion:101 Resp: 95679

Ion Ratio Lower Upper

101 100

85 44.8 35.8 53.8

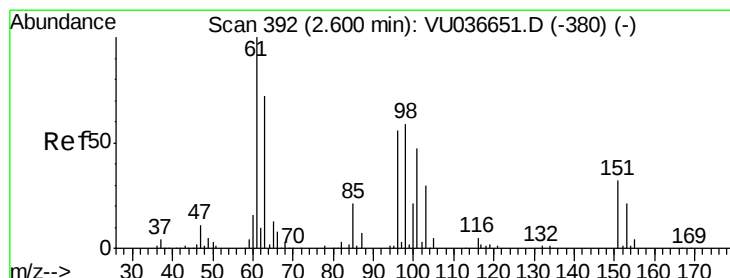
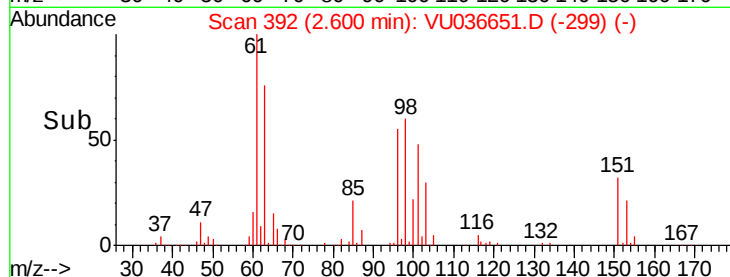
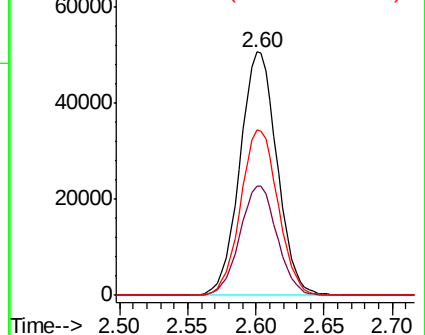
151 68.4 54.7 82.1



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: 52.932 ug/L

RT: 2.60 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

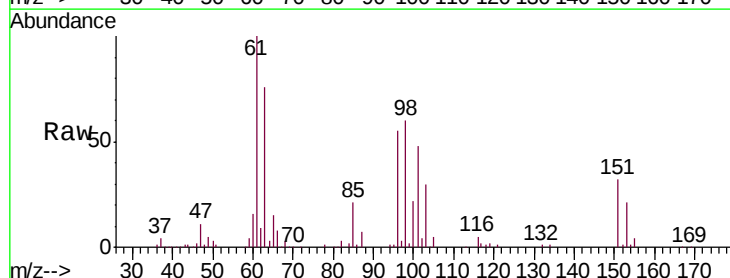
Tgt Ion: 96 Resp: 96268

Ion Ratio Lower Upper

96 100

61 181.1 126.8 235.4

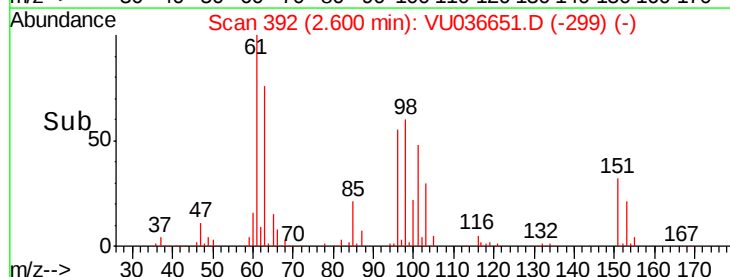
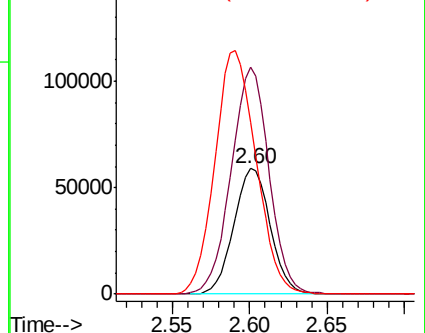
63 136.8 95.8 177.8

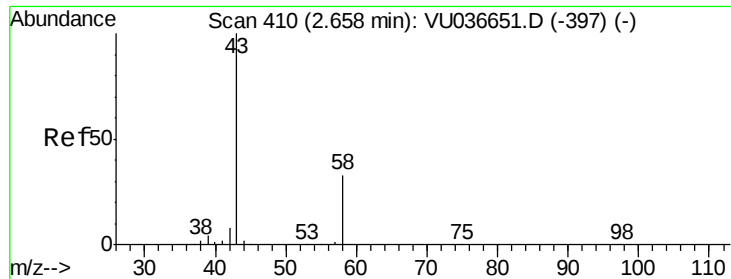


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 108.124 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

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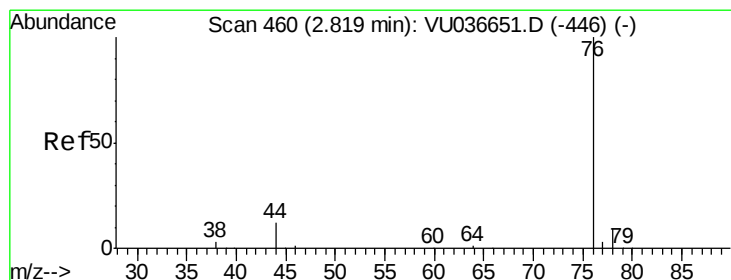
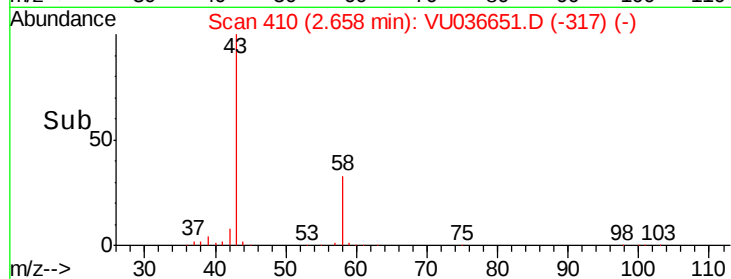
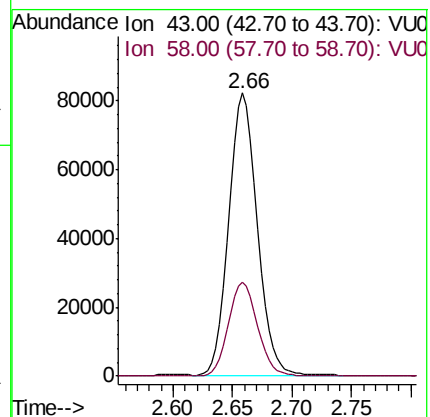
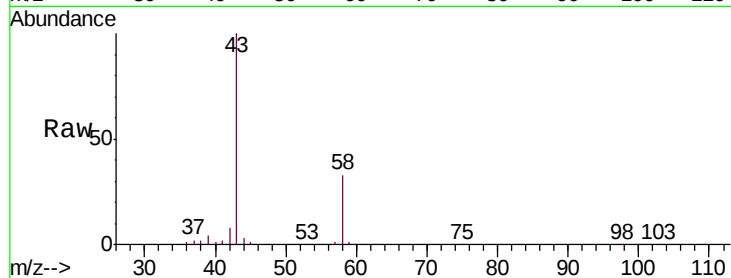
VSTD05032

Tgt Ion: 43 Resp: 136816

Ion Ratio Lower Upper

43 100

58 33.9 0.0 67.8



#14

Carbon disulfide

Concen: 52.275 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036651.D

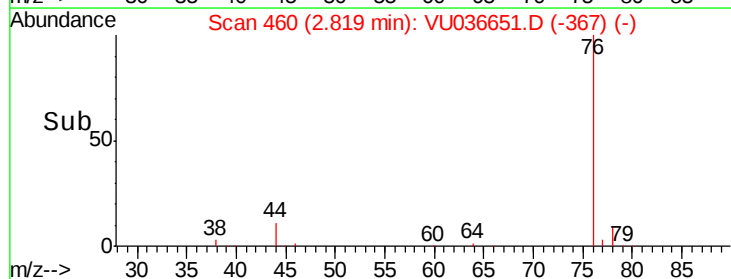
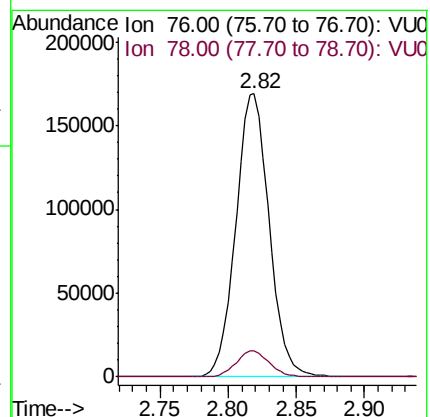
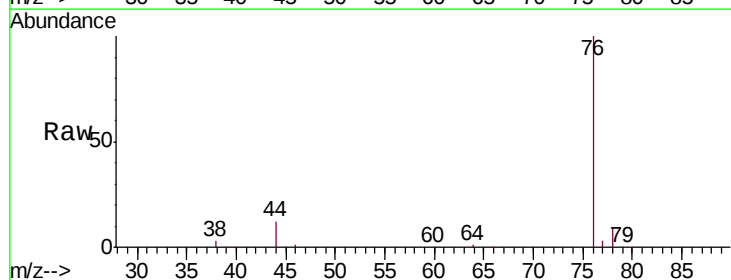
Acq: 31 Jan 2020 18:49

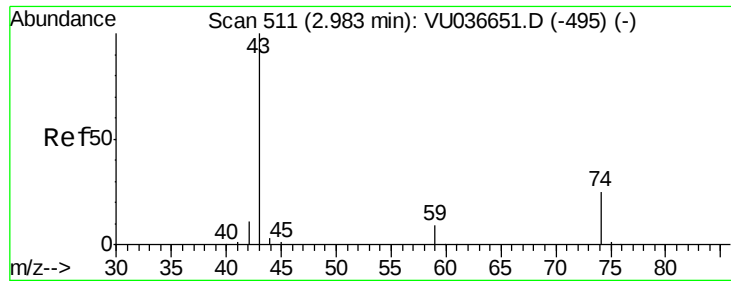
Tgt Ion: 76 Resp: 287034

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

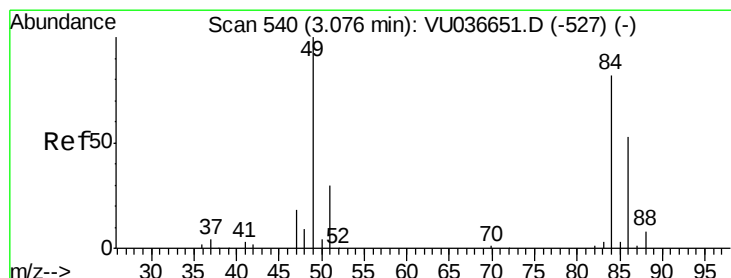
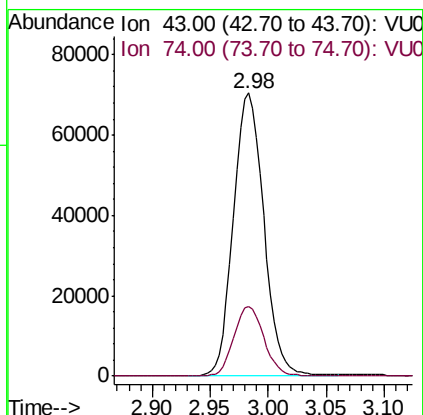
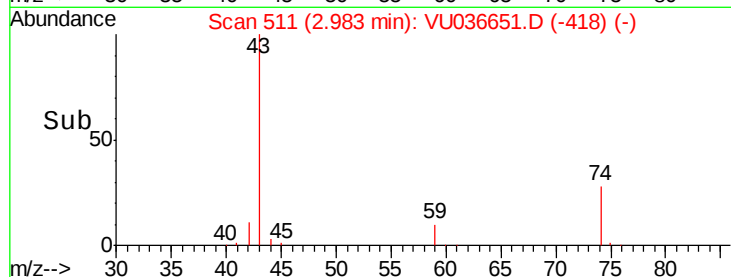
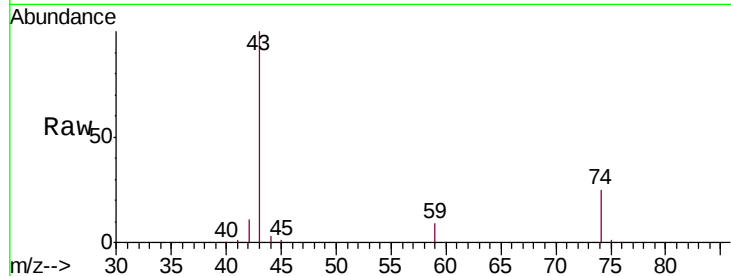




#15
Methyl Acetate
Concen: 63.147 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

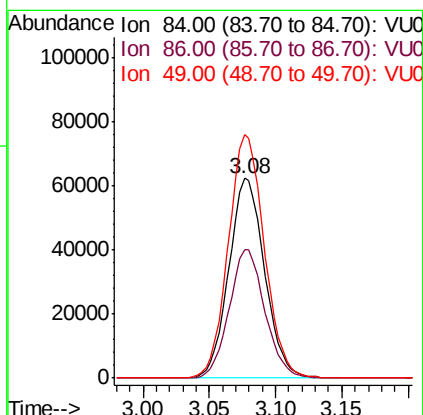
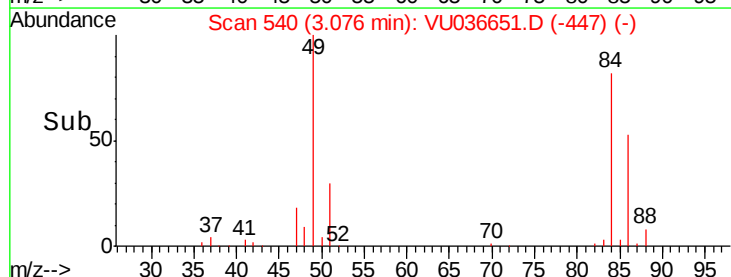
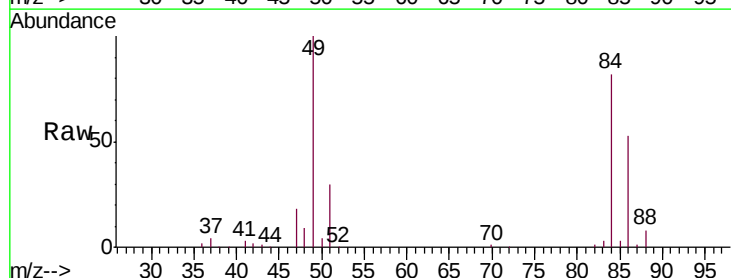
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

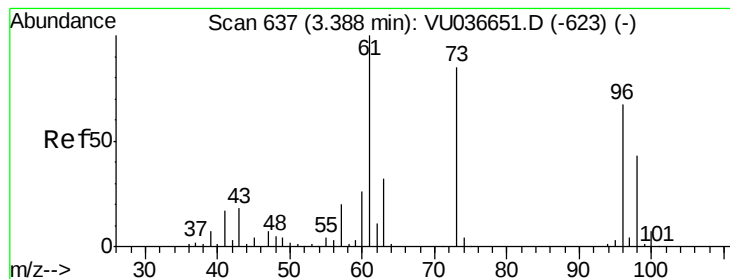
Tgt Ion: 43 Resp: 128840
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2



#16
Methylene chloride
Concen: 53.238 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

Tgt Ion: 84 Resp: 117255
Ion Ratio Lower Upper
84 100
86 64.5 45.1 83.9
49 121.8 85.3 158.3





#17

trans-1,2-Dichloroethene

Concen: 52.217 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

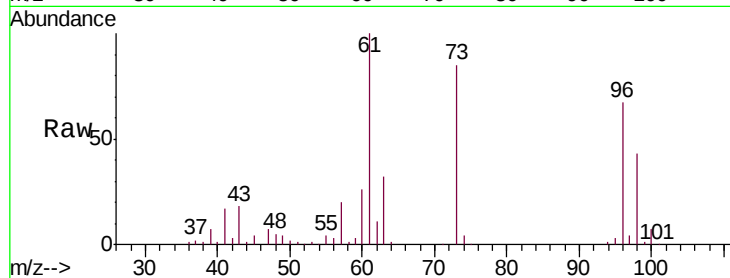
Tgt Ion: 96 Resp: 101328

Ion Ratio Lower Upper

96 100

61 148.9 104.2 193.6

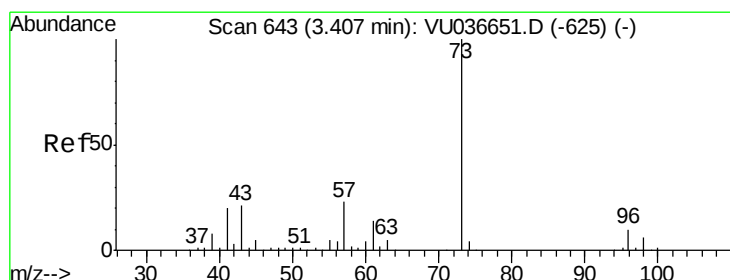
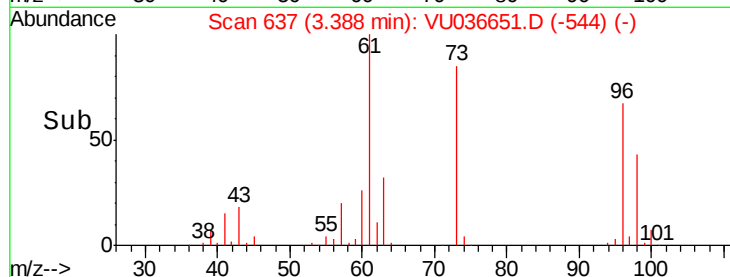
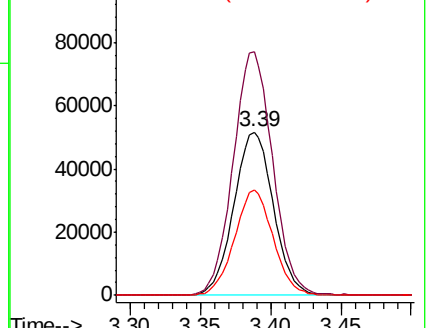
98 64.6 45.2 84.0



Abundance Ion 96.00 (95.70 to 96.70): VU036651.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU036651.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU036651.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 57.248 ug/L

RT: 3.41 min Scan# 643

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

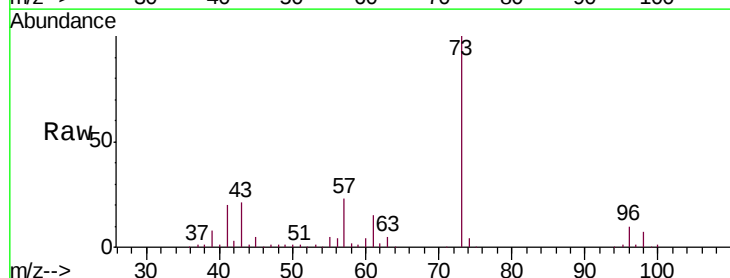
Tgt Ion: 73 Resp: 362959

Ion Ratio Lower Upper

73 100

43 20.7 16.6 24.8

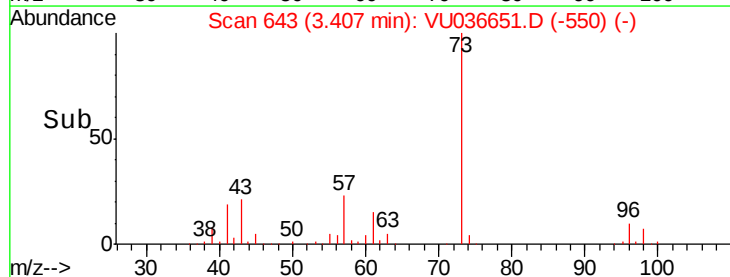
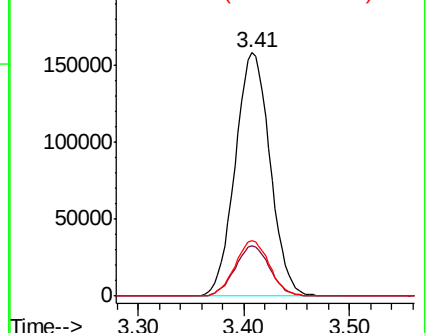
57 22.5 18.0 27.0

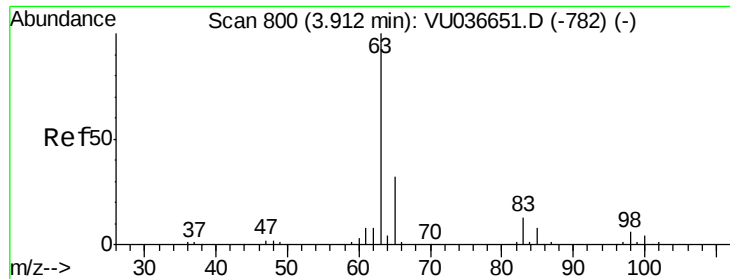


Abundance Ion 73.00 (72.70 to 73.70): VU036651.D (-625) (-)

Ion 43.00 (42.70 to 43.70): VU036651.D (-625) (-)

Ion 57.00 (56.70 to 57.70): VU036651.D (-625) (-)

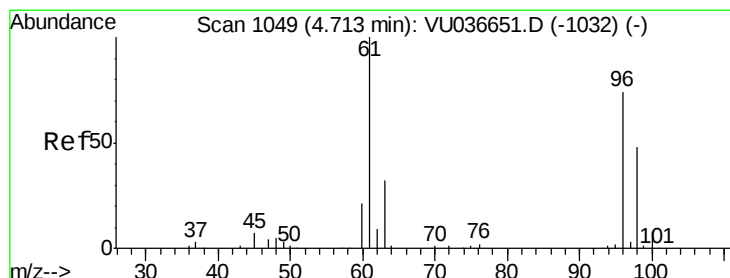
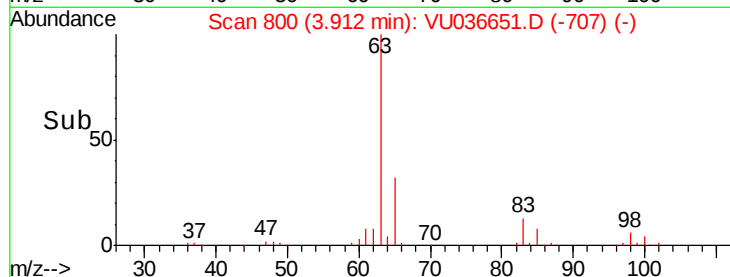
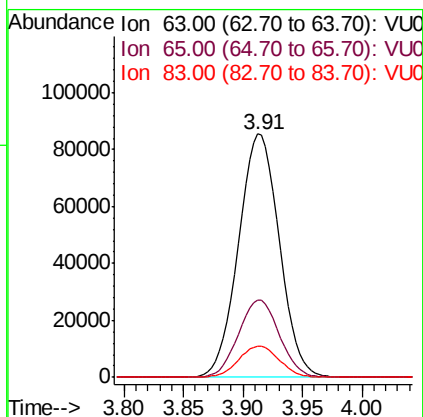
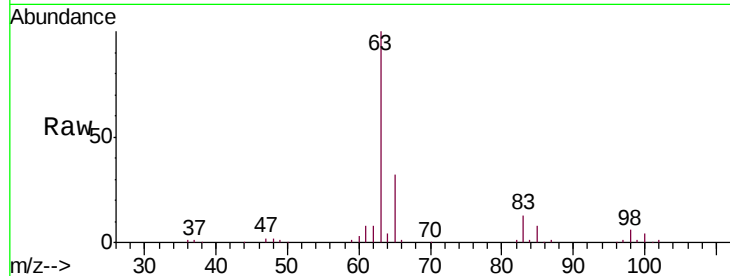




#19
 1,1-Dichloroethane
 Concen: 57.434 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

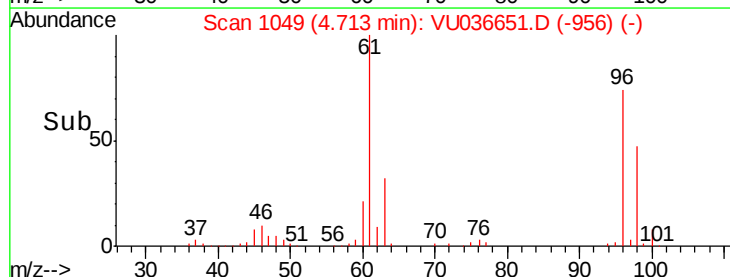
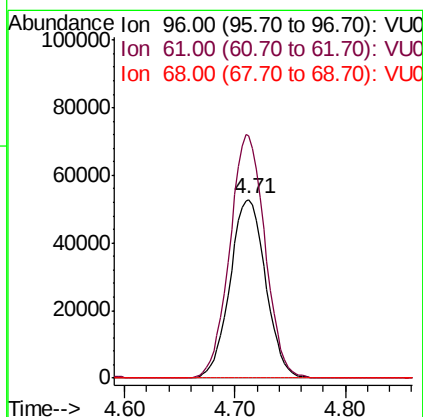
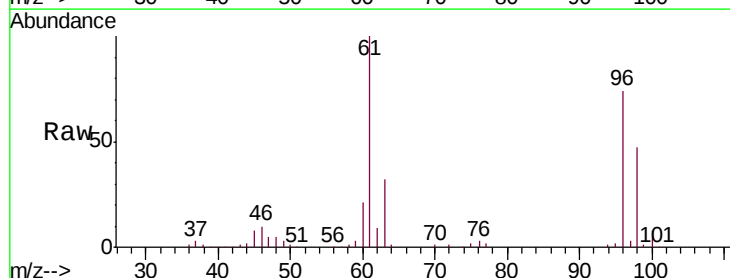
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05032

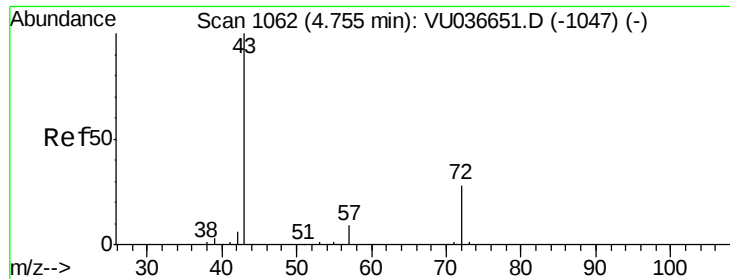
Tgt Ion: 63 Resp: 203536
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.3 41.5
 83 12.9 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 53.520 ug/L
 RT: 4.71 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion: 96 Resp: 118123
 Ion Ratio Lower Upper
 96 100
 61 135.6 94.9 176.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 122.916 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

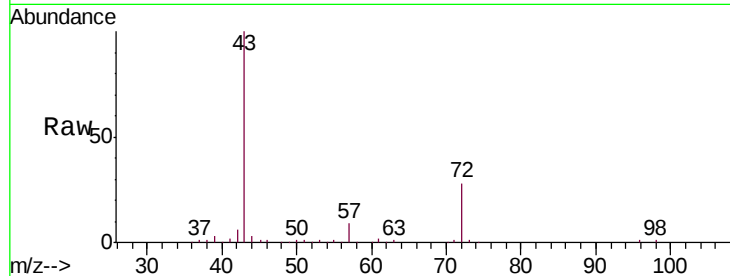
VSTD05032

Tgt Ion: 43 Resp: 191194

Ion Ratio Lower Upper

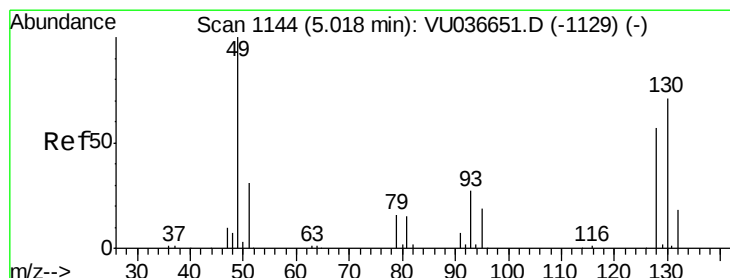
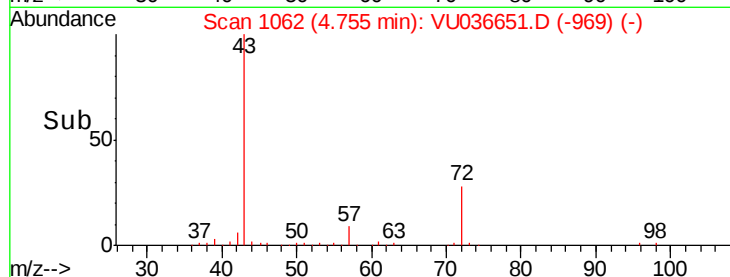
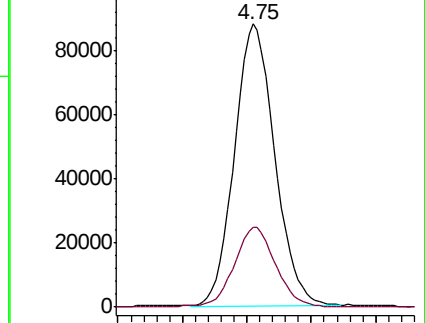
43 100

72 29.3 14.6 44.0



Abundance Ion 43.00 (42.70 to 43.70): VU036651.D (-1047) (-)

Ion 72.00 (71.70 to 72.70): VU036651.D (-1047) (-)



#23

Bromochloromethane

Concen: 48.340 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Tgt Ion: 128 Resp: 54207

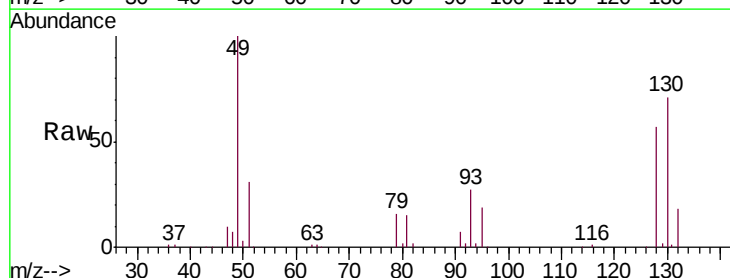
Ion Ratio Lower Upper

128 100

49 176.8 123.8 229.8

130 125.5 87.8 163.2

51 54.2 43.4 65.0

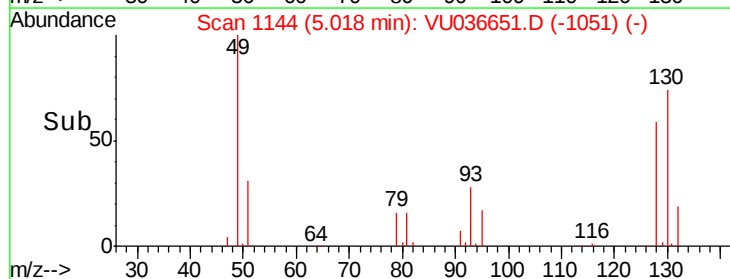
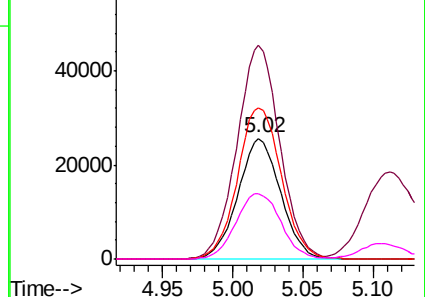


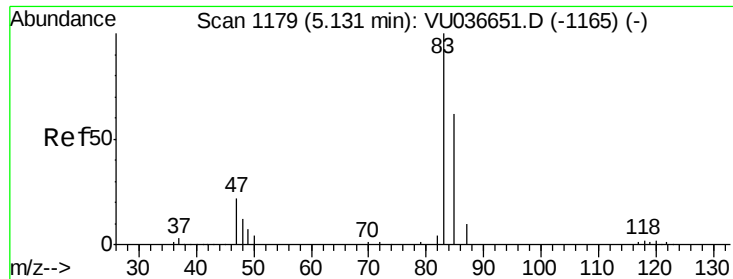
Abundance Ion 128.00 (127.70 to 128.70): VU036651.D (-1129) (-)

Ion 49.00 (48.70 to 49.70): VU036651.D (-1129) (-)

Ion 130.00 (129.70 to 130.70): VU036651.D (-1129) (-)

Ion 51.00 (50.70 to 51.70): VU036651.D (-1129) (-)

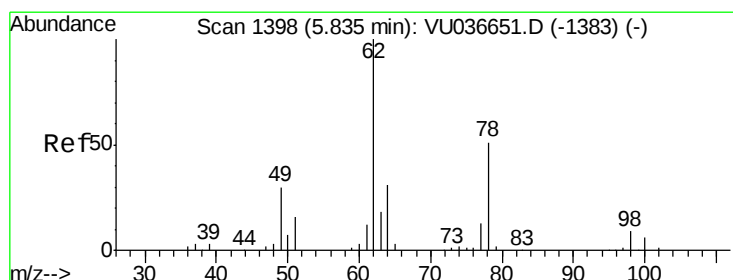
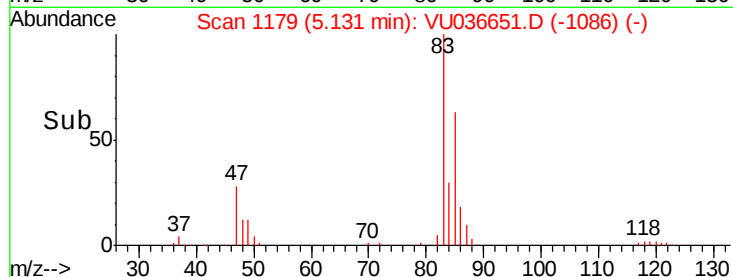
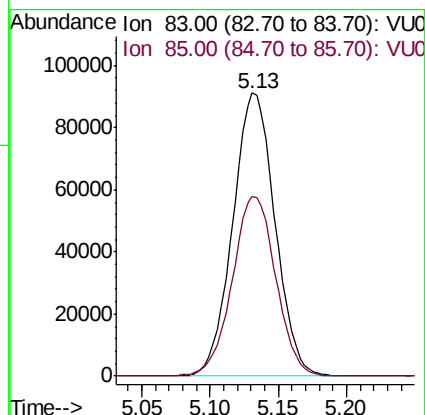
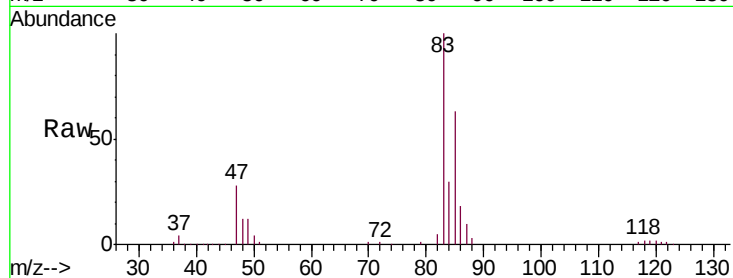




#25
Chloroform
Concen: 54.578 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

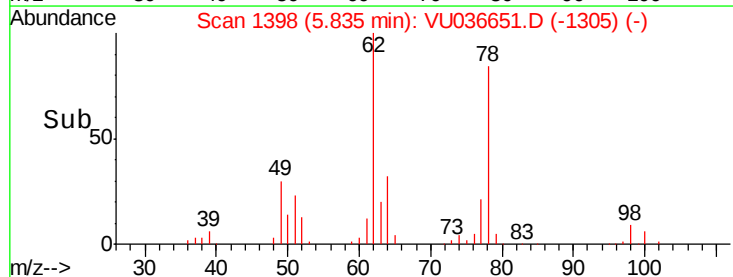
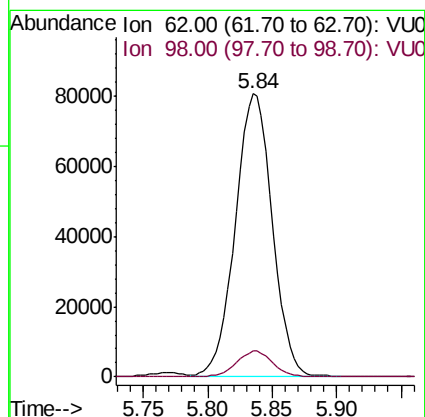
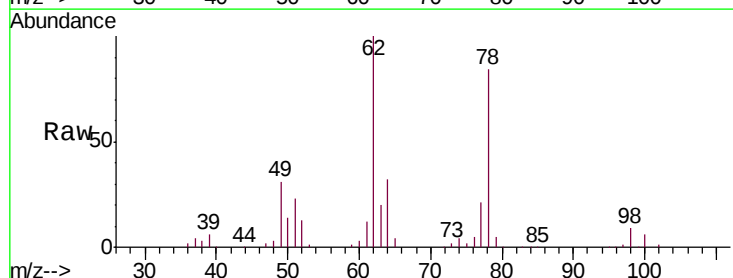
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

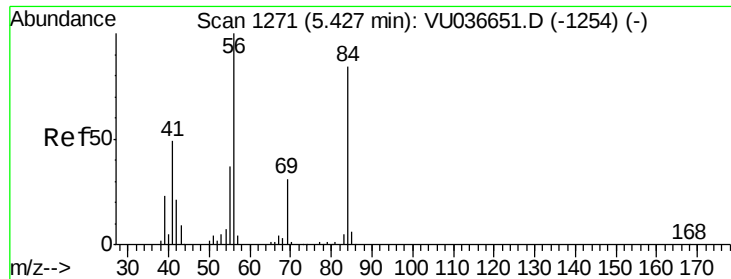
Tgt Ion: 83 Resp: 195945
Ion Ratio Lower Upper
83 100
85 63.3 44.3 82.3



#27
1,2-Dichloroethane
Concen: 58.778 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

Tgt Ion: 62 Resp: 160522
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

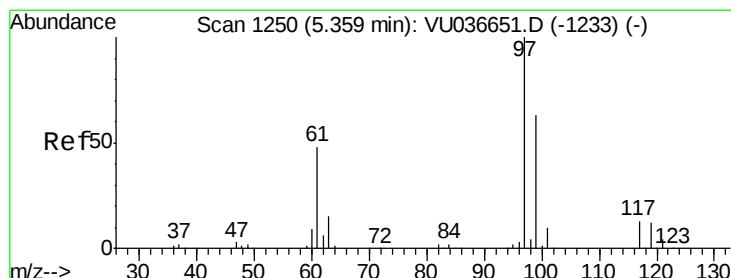
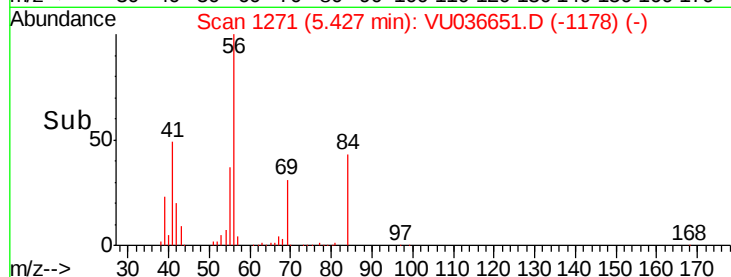
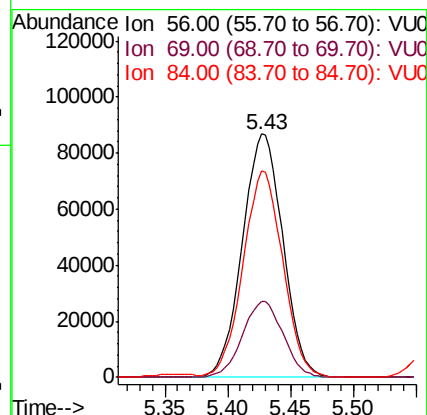
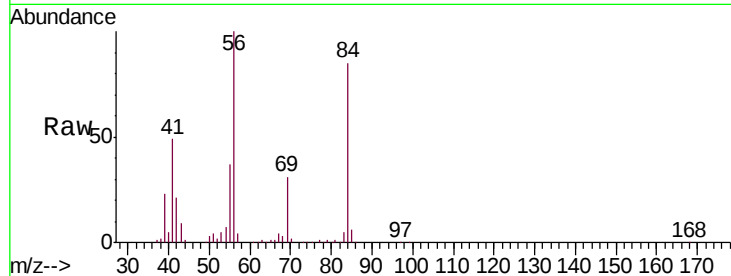




#29
Cyclohexane
Concen: 59.621 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

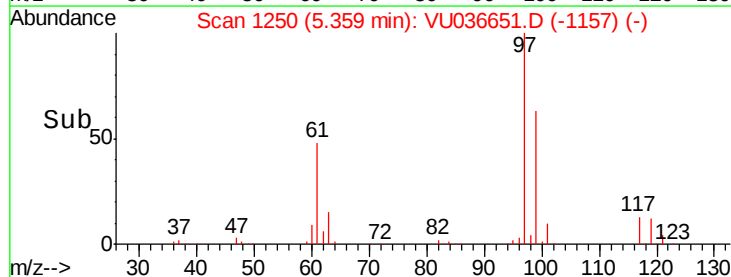
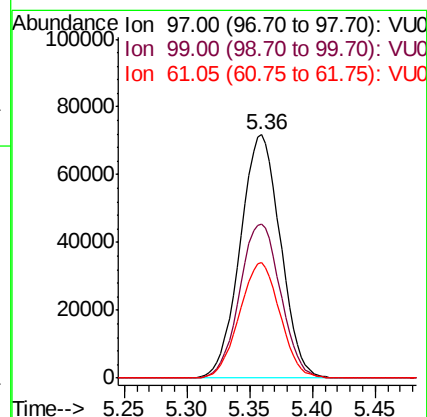
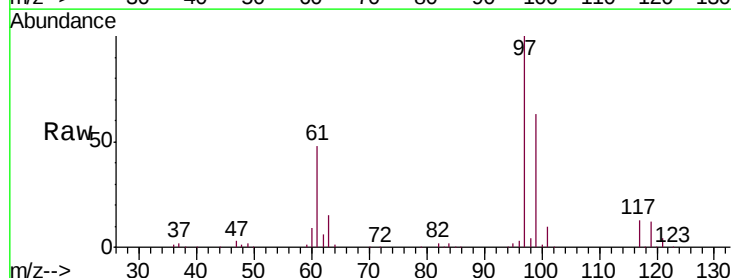
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

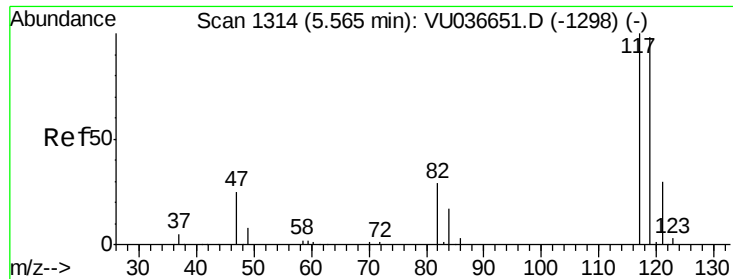
Tgt Ion: 56 Resp: 195312
Ion Ratio Lower Upper
56 100
69 31.2 25.0 37.4
84 82.7 66.2 99.2



#30
1,1,1-Trichloroethane
Concen: 54.964 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

Tgt Ion: 97 Resp: 160410
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 47.8 38.2 57.4

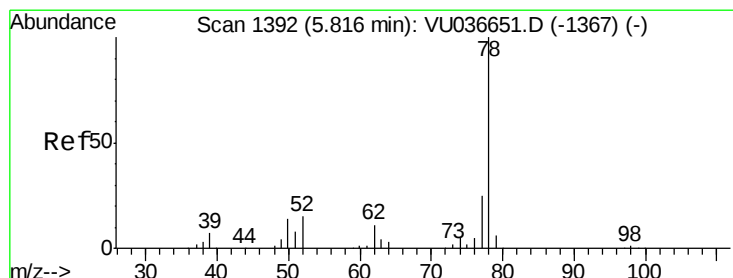
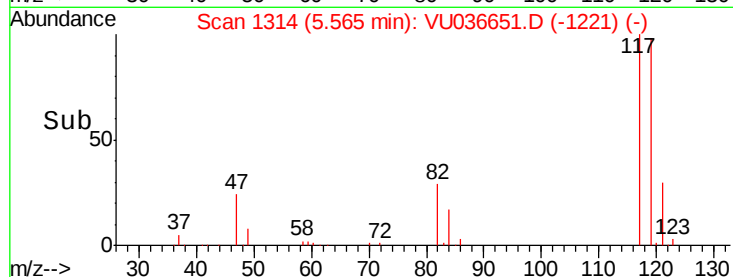
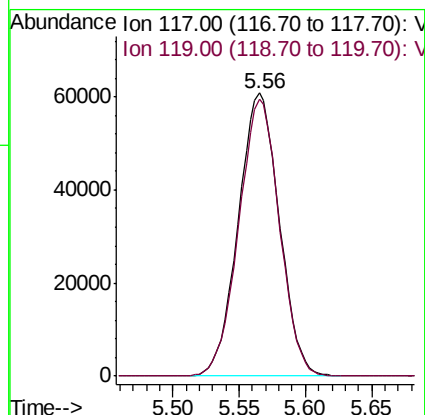
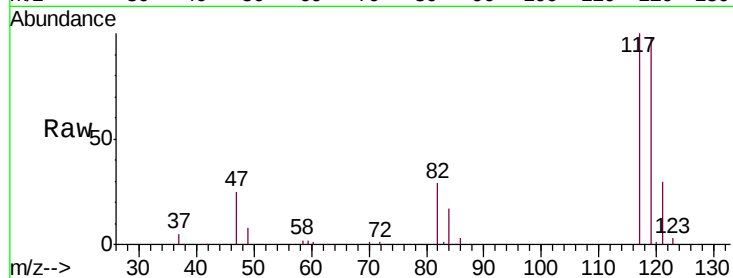




#31
Carbon tetrachloride
Concen: 52.767 ug/L
RT: 5.56 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

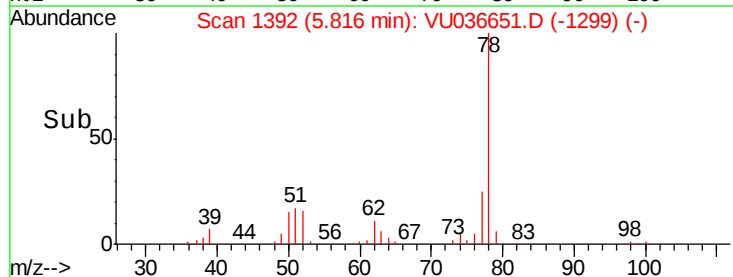
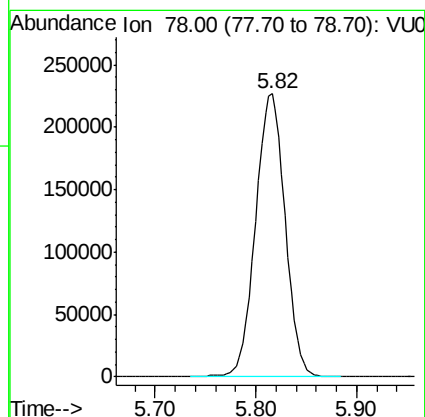
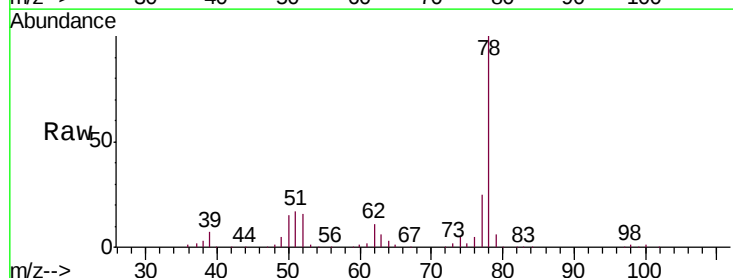
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

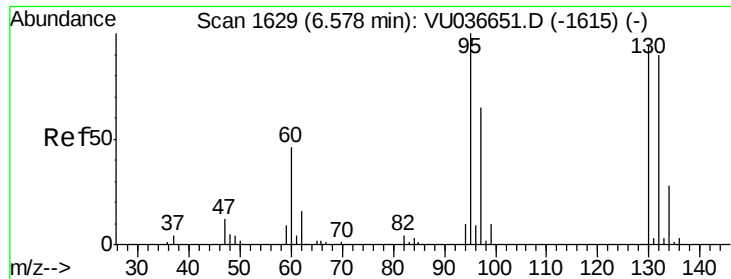
Tgt Ion:117 Resp: 130622
Ion Ratio Lower Upper
117 100
119 97.1 77.7 116.5



#33
Benzene
Concen: 55.358 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

Tgt Ion: 78 Resp: 459938

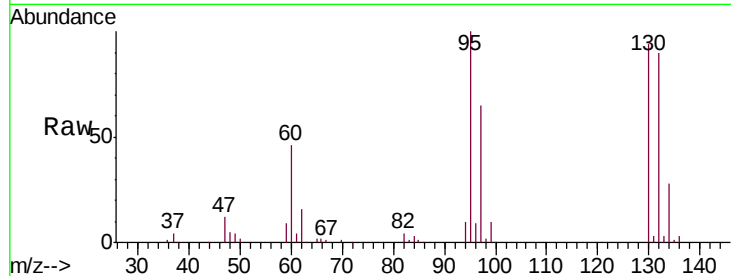




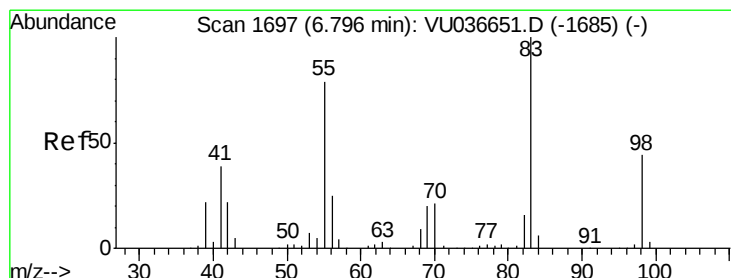
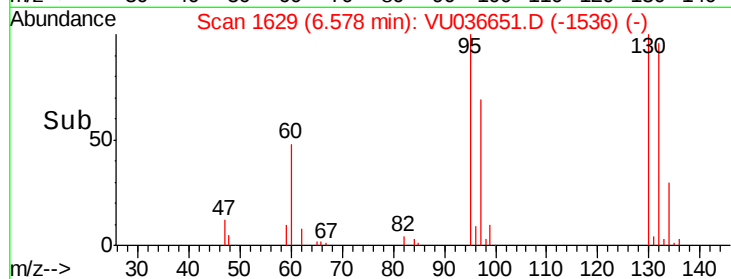
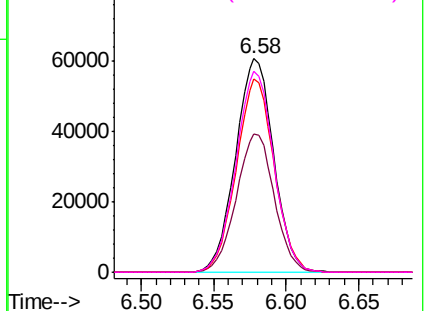
#34
 Trichloroethene
 Concen: 52.276 ug/L
 RT: 6.58 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion: 95 Resp: 110702
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.4 84.4
 132 90.3 63.2 117.4
 130 94.1 65.9 122.3

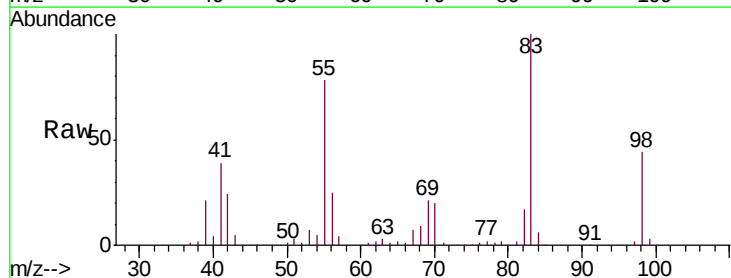


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

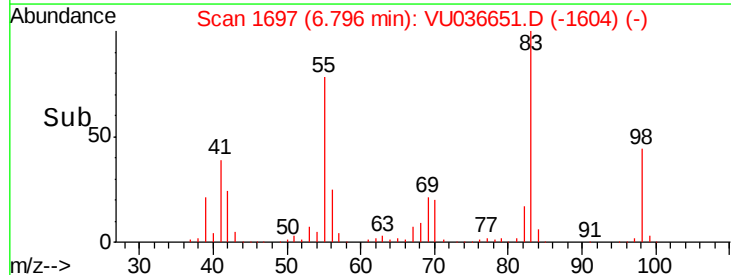
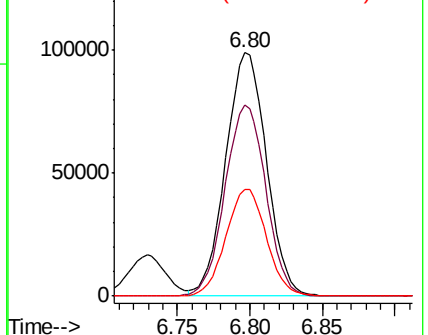


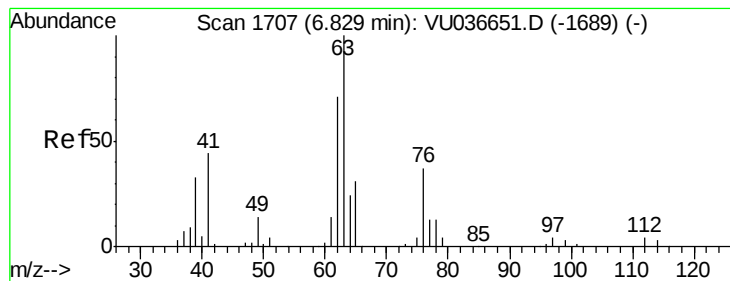
#35
 Methylcyclohexane
 Concen: 54.084 ug/L
 RT: 6.80 min Scan# 1697
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion: 83 Resp: 192694
 Ion Ratio Lower Upper
 83 100
 55 78.9 63.1 94.7
 98 43.8 35.0 52.6



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: 58.301 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

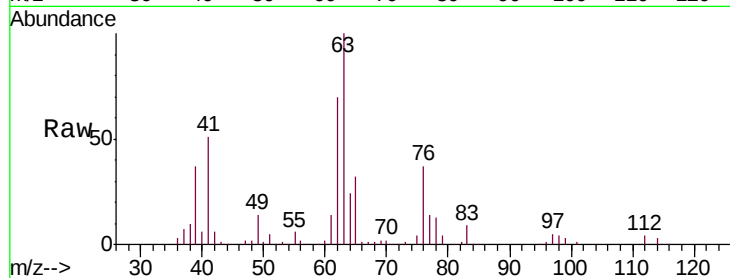
VSTD05032

Tgt Ion: 63 Resp: 124311

Ion Ratio Lower Upper

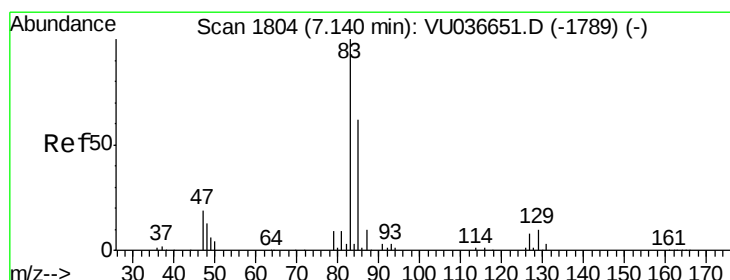
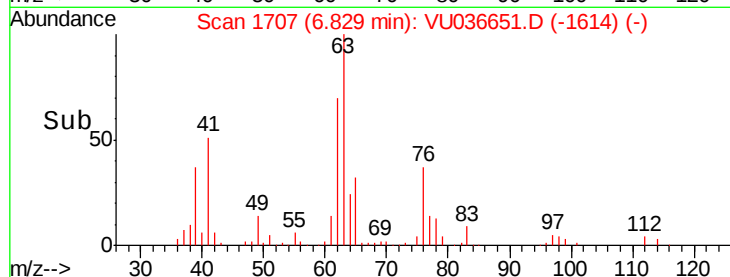
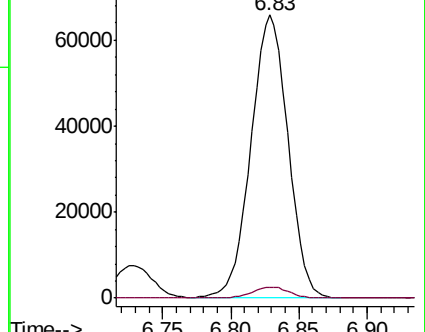
63 100

112 3.8 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU036651.D (-1689) (-)

Ion 112.00 (111.70 to 112.70): VU036651.D (-1689) (-)



#38

Bromodichloromethane

Concen: 56.436 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

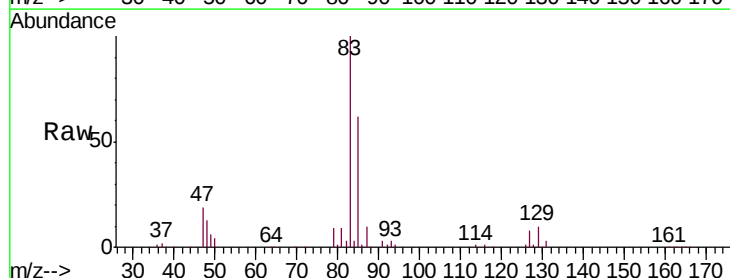
Tgt Ion: 83 Resp: 149693

Ion Ratio Lower Upper

83 100

85 61.7 43.2 80.2

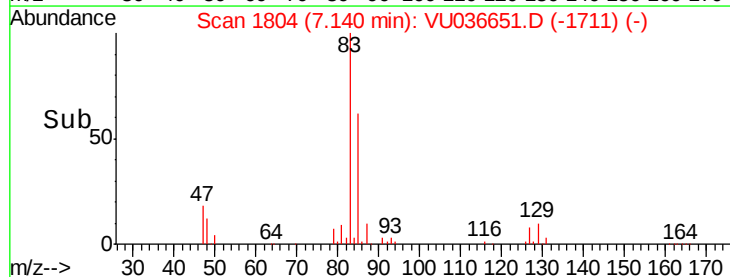
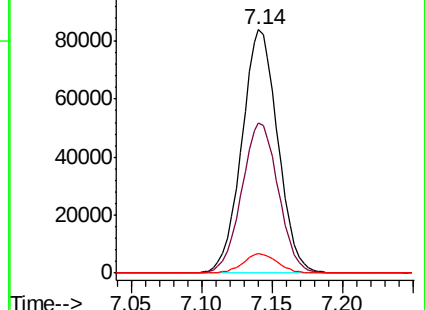
127 8.0 6.4 9.6

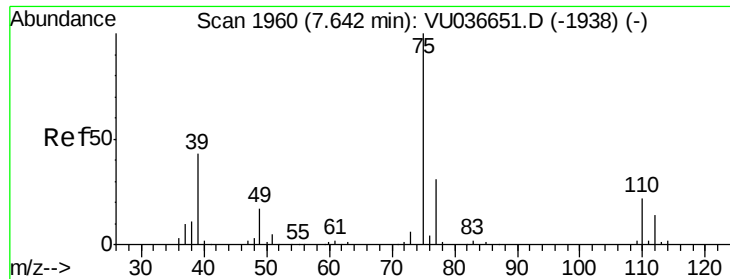


Abundance Ion 83.00 (82.70 to 83.70): VU036651.D (-1789) (-)

Ion 85.00 (84.70 to 85.70): VU036651.D (-1789) (-)

Ion 127.00 (126.70 to 127.70): VU036651.D (-1789) (-)

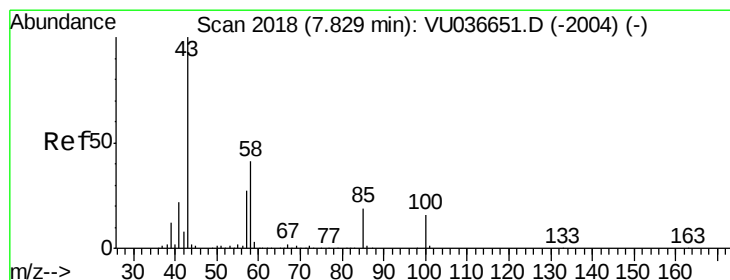
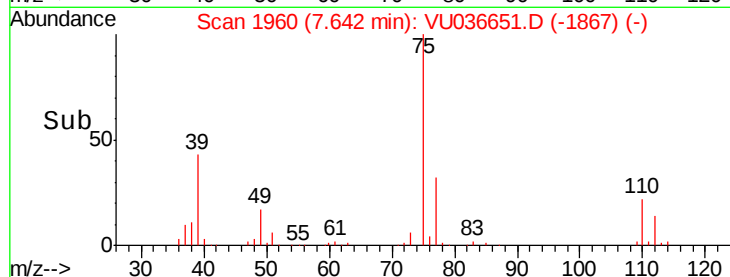
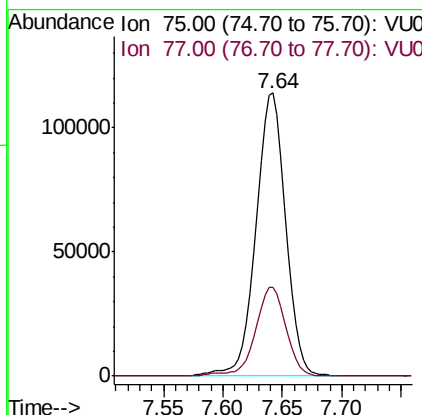
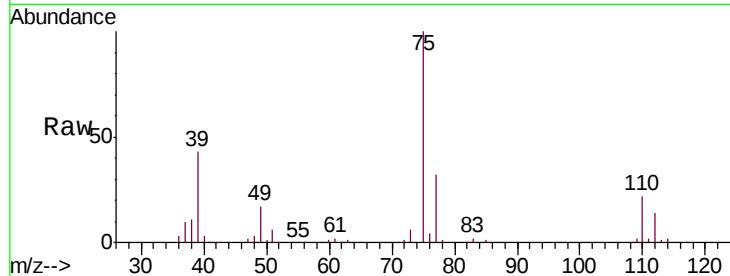




#39
 cis-1,3-Dichloropropene
 Concen: 57.711 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

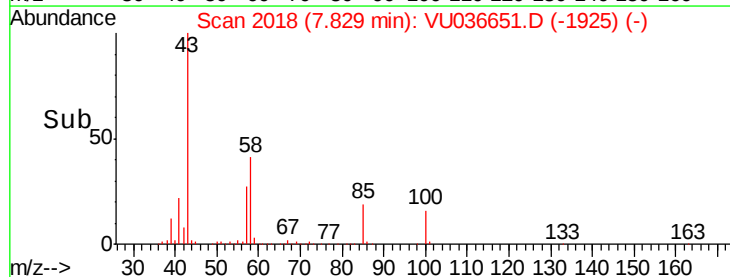
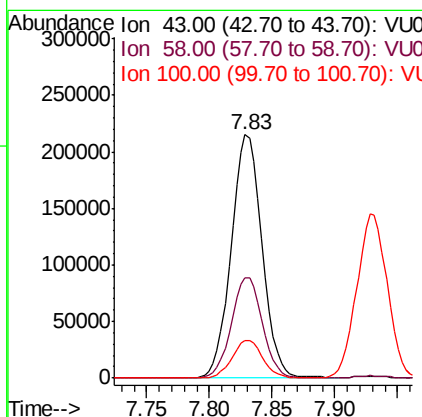
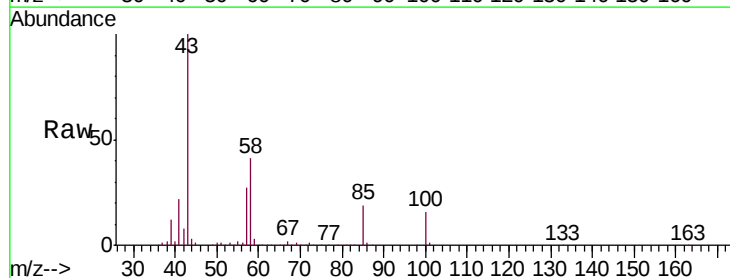
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

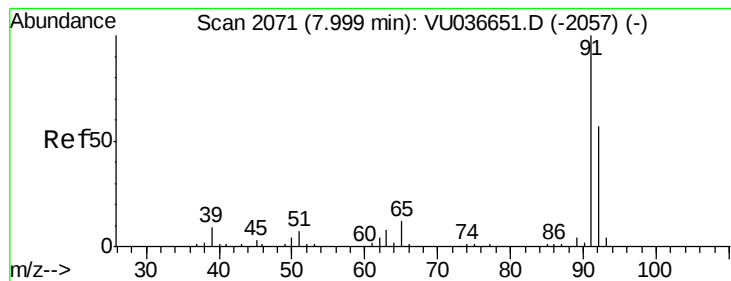
Tgt Ion: 75 Resp: 197295
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 129.739 ug/L
 RT: 7.83 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion: 43 Resp: 367414
 Ion Ratio Lower Upper
 43 100
 58 41.6 33.3 49.9
 100 15.5 12.4 18.6





#42

Toluene

Concen: 54.581 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

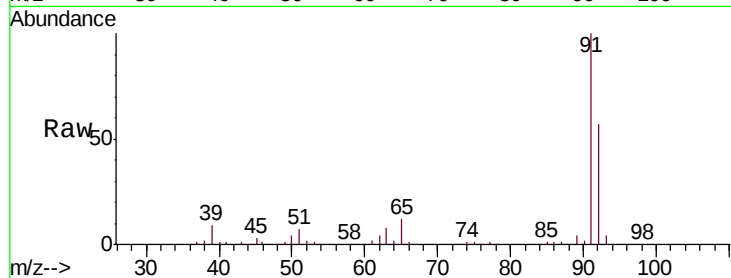
VSTD05032

Tgt Ion: 91 Resp: 490335

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU036651.D (-2057) (-)

Ion 92.00 (91.70 to 92.70): VU036651.D (-2057) (-)

8.00

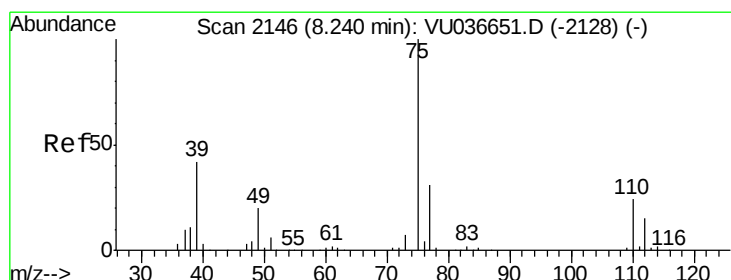
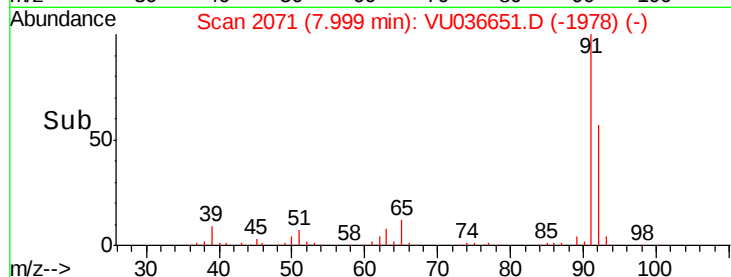
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 57.374 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036651.D

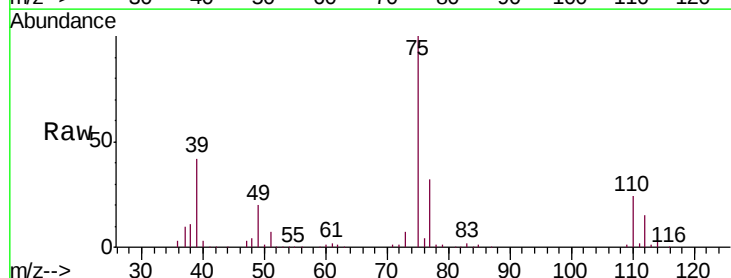
Acq: 31 Jan 2020 18:49

Tgt Ion: 75 Resp: 172019

Ion Ratio Lower Upper

75 100

77 31.5 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU036651.D (-2128) (-)

Ion 77.00 (76.70 to 77.70): VU036651.D (-2128) (-)

8.24

120000

100000

80000

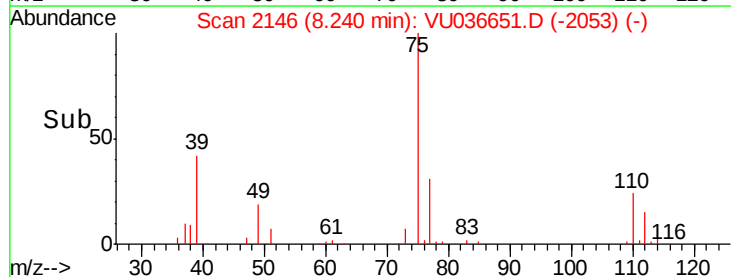
60000

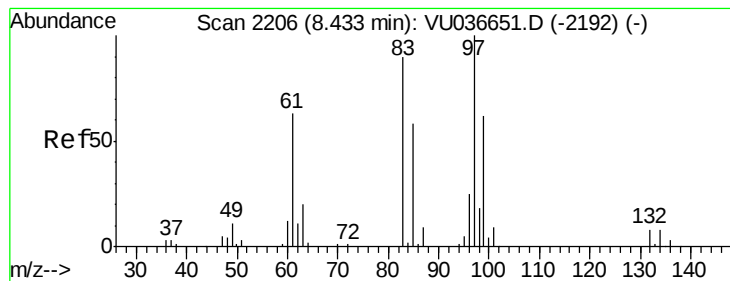
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 52.896 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

Tgt Ion: 97 Resp: 110449

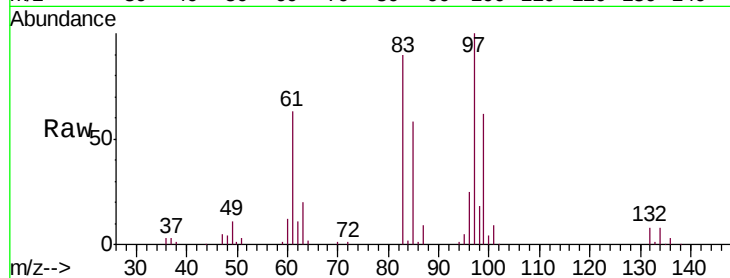
Ion Ratio Lower Upper

97 100

99 62.0 43.4 80.6

83 90.0 63.0 117.0

85 57.6 40.3 74.9

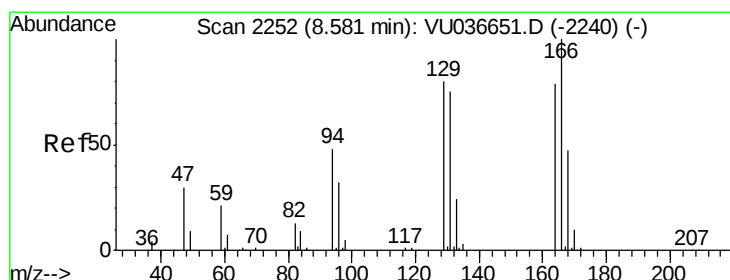
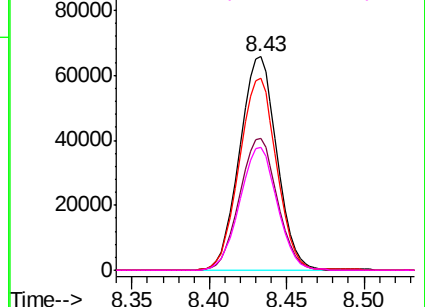
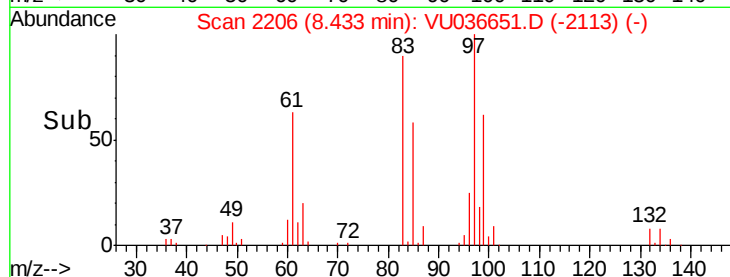


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 47.187 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Tgt Ion: 164 Resp: 78879

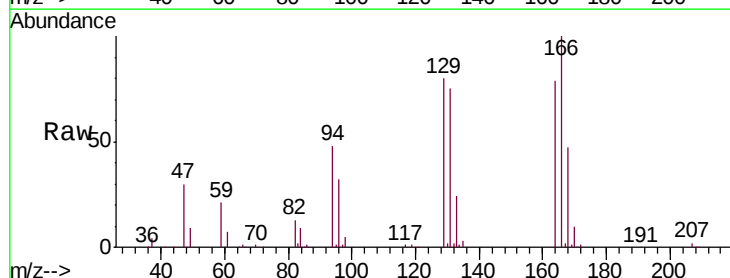
Ion Ratio Lower Upper

164 100

129 101.6 71.1 132.1

131 95.6 66.9 124.3

166 127.2 89.0 165.4

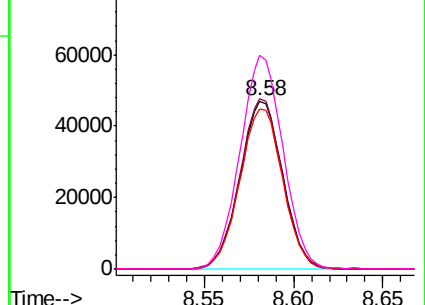
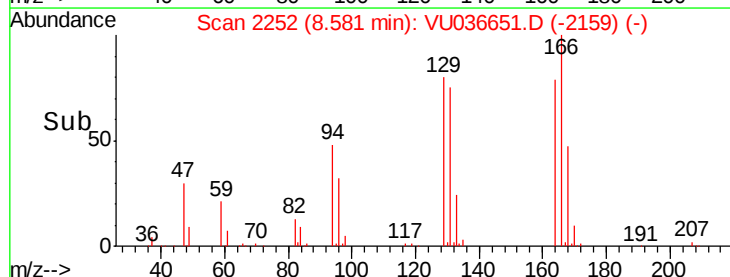


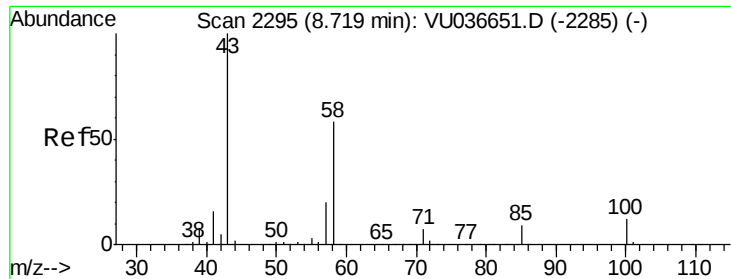
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

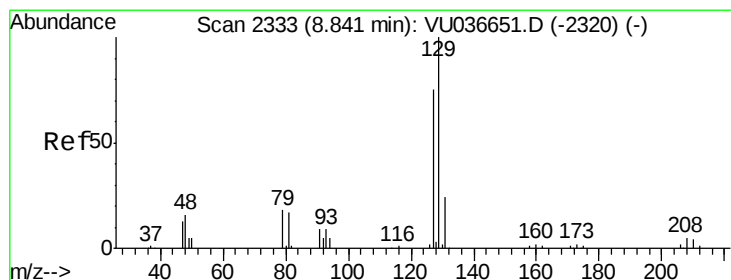
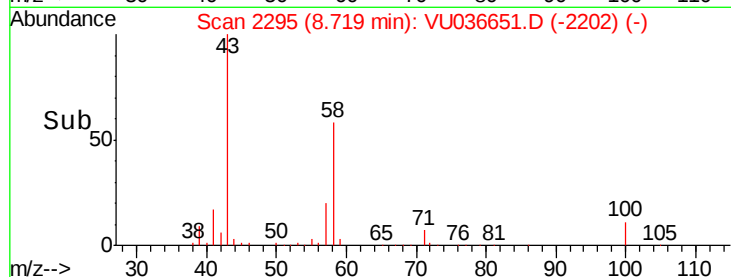
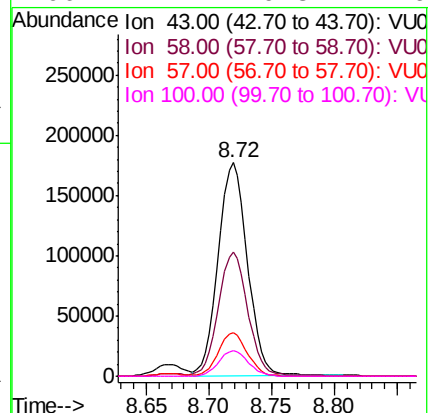
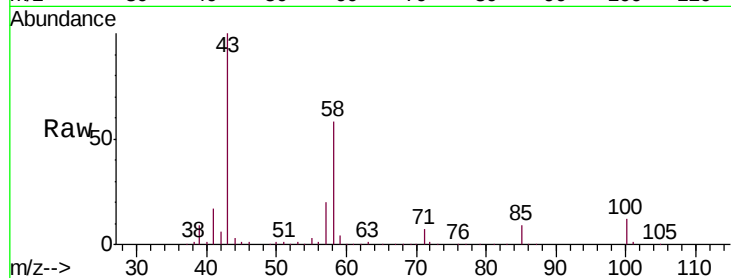




#48
2-Hexanone
Concen: 134.732 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

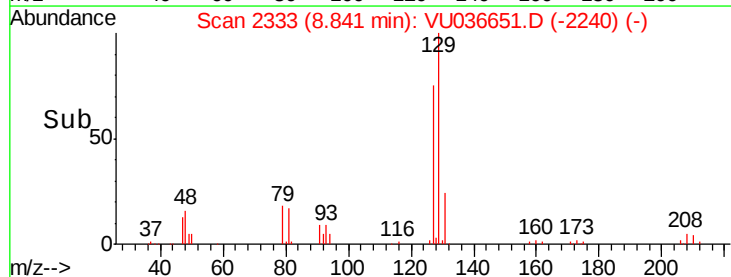
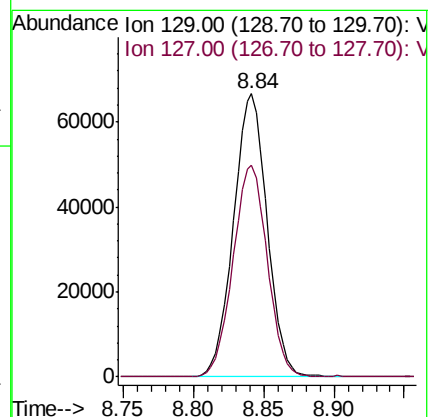
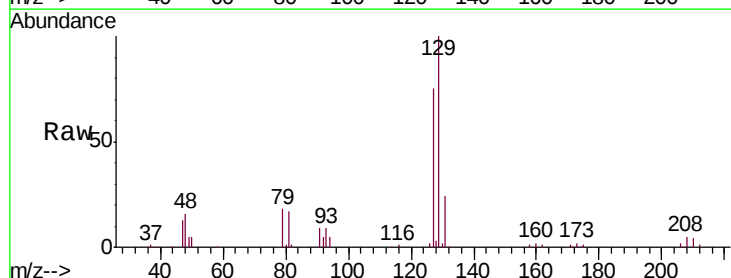
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

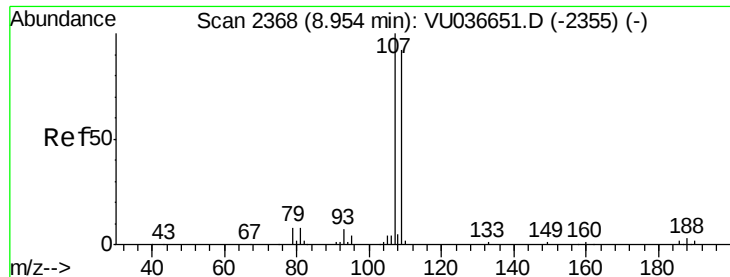
Tgt Ion: 43 Resp: 286696
Ion Ratio Lower Upper
43 100
58 57.7 46.2 69.2
57 20.4 16.3 24.5
100 12.2 9.8 14.6



#49
Dibromochloromethane
Concen: 51.118 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036651.D
Acq: 31 Jan 2020 18:49

Tgt Ion: 129 Resp: 111386
Ion Ratio Lower Upper
129 100
127 74.8 52.4 97.2

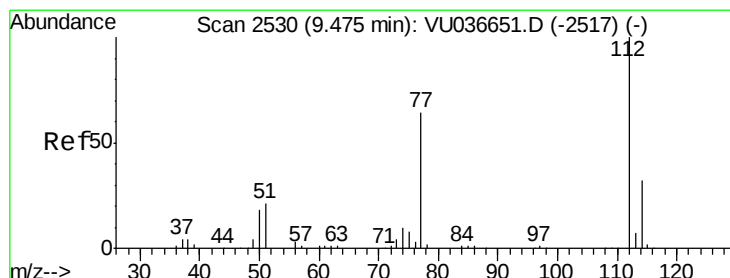
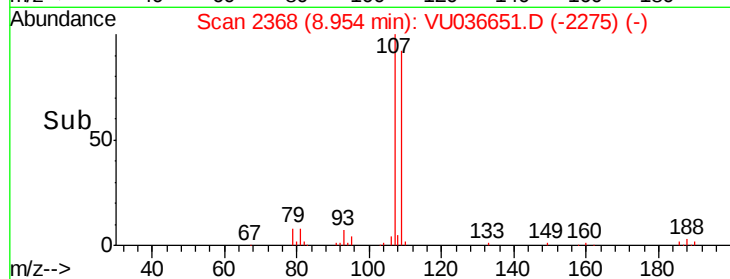
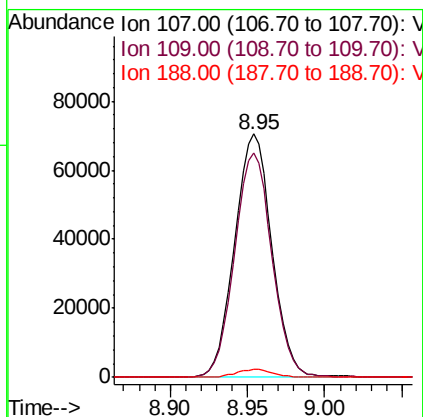
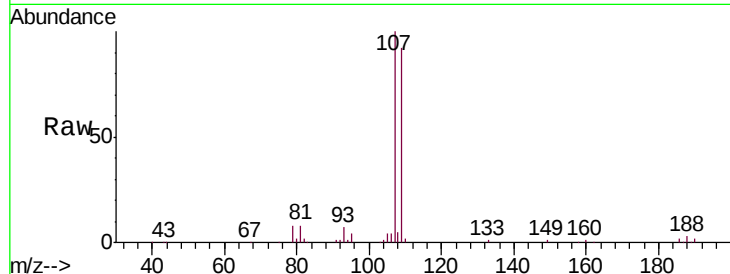




#50
 1,2-Dibromoethane
 Concen: 52.692 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

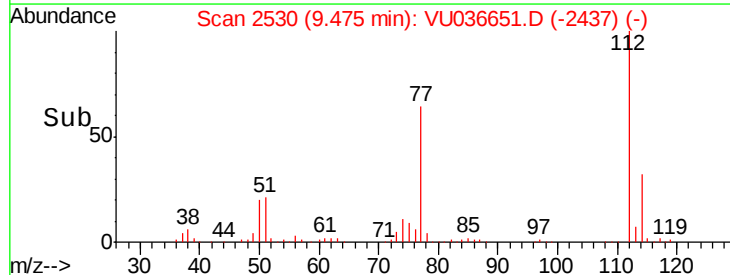
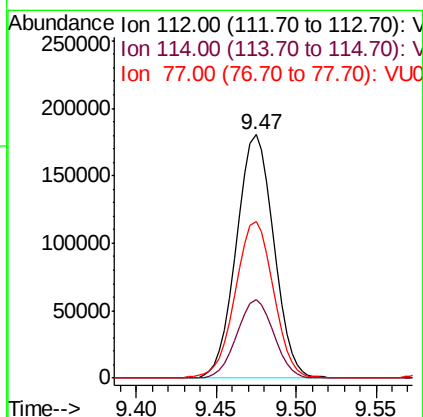
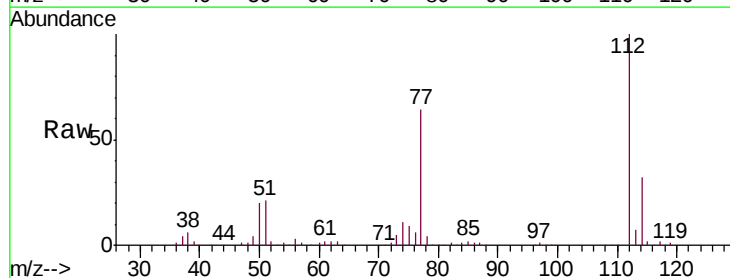
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

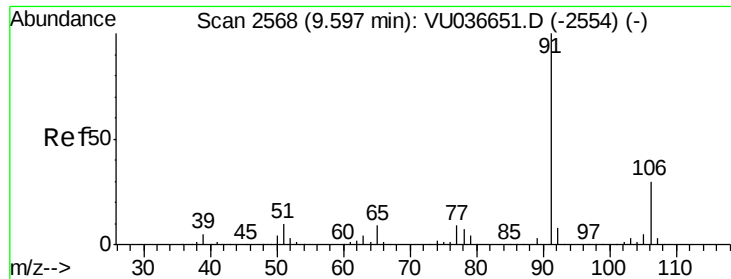
Tgt Ion:107 Resp: 117743
 Ion Ratio Lower Upper
 107 100
 109 92.1 64.5 119.7
 188 3.1 2.5 3.7



#51
 Chlorobenzene
 Concen: 50.041 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion:112 Resp: 287745
 Ion Ratio Lower Upper
 112 100
 114 32.2 22.5 41.9
 77 64.3 51.4 77.2





#52

Ethylbenzene

Concen: 54.475 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

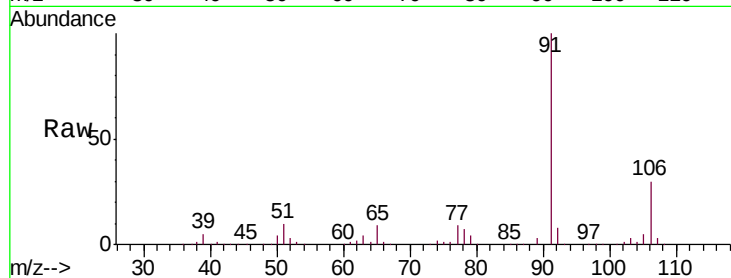
VSTD05032

Tgt Ion: 91 Resp: 537334

Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VU036651.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036651.D (-2554) (-)

9.60

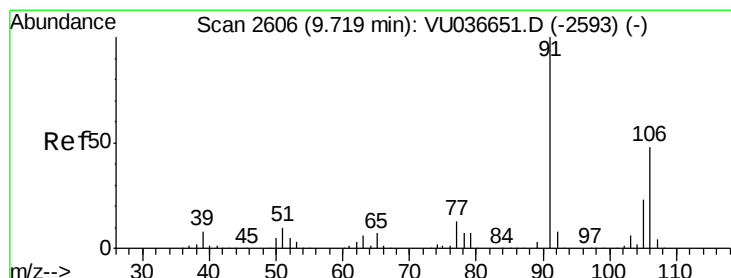
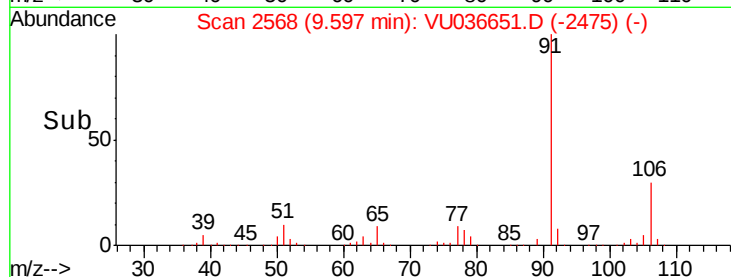
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65 9.70



#53

m,p-Xylene

Concen: 52.087 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036651.D

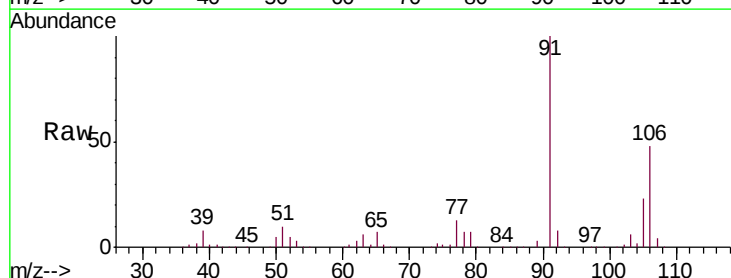
Acq: 31 Jan 2020 18:49

Tgt Ion: 106 Resp: 198100

Ion Ratio Lower Upper

106 100

91 210.4 147.3 273.5



Abundance Ion 106.00 (105.70 to 106.70): VU036651.D (-2593) (-)

Ion 91.00 (90.70 to 91.70): VU036651.D (-2593) (-)

9.72

300000

250000

200000

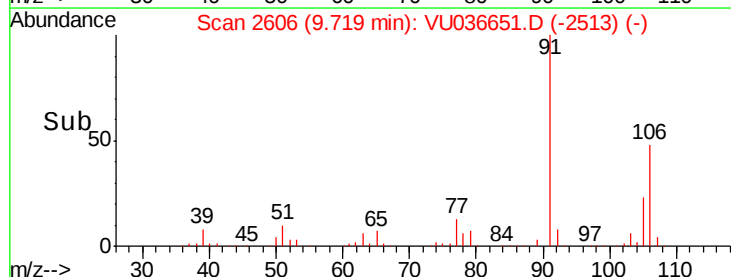
150000

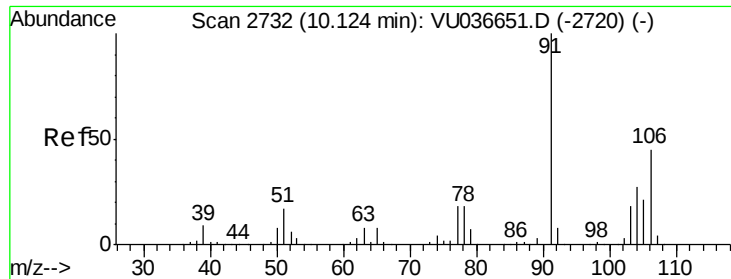
100000

50000

0

Time--> 9.65 9.70 9.75 9.80





#54

o-xylene

Concen: 52.658 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

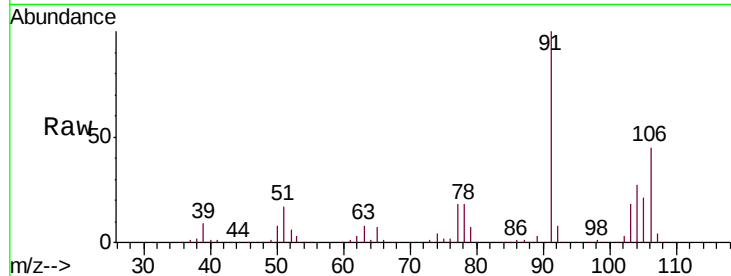
VSTD05032

Tgt Ion:106 Resp: 199763

Ion Ratio Lower Upper

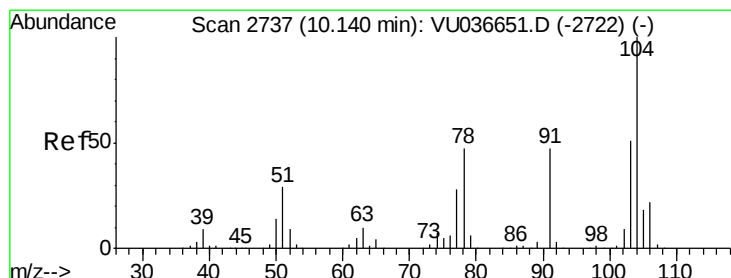
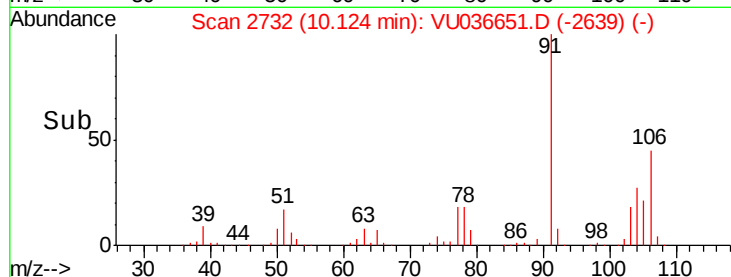
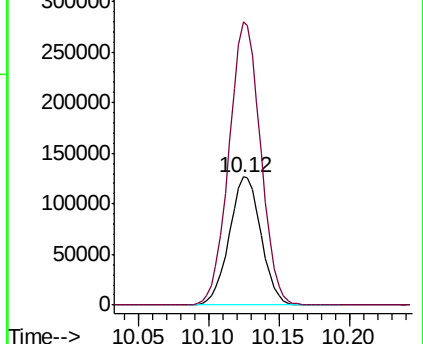
106 100

91 221.3 154.9 287.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.012 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036651.D

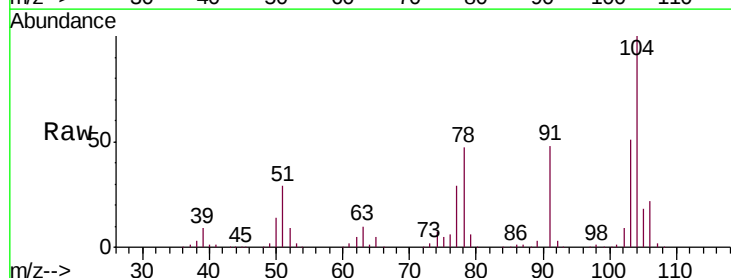
Acq: 31 Jan 2020 18:49

Tgt Ion:104 Resp: 340933

Ion Ratio Lower Upper

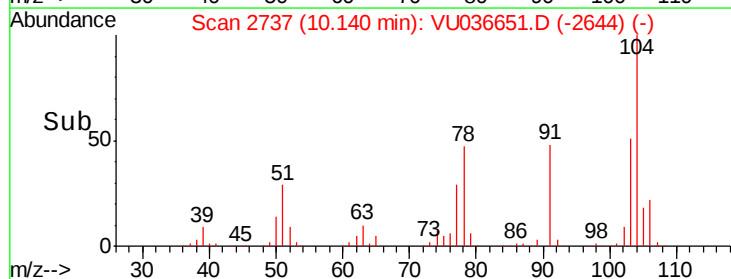
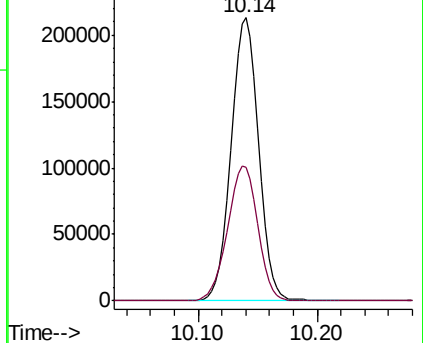
104 100

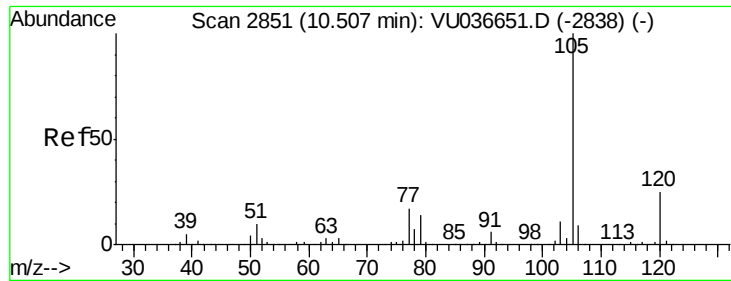
78 47.3 33.1 61.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.022 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

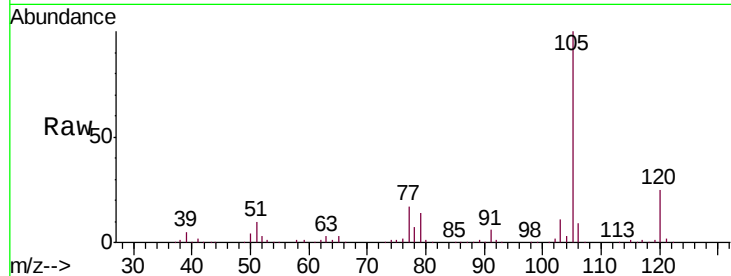
Tgt Ion: 105 Resp: 513177

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.4

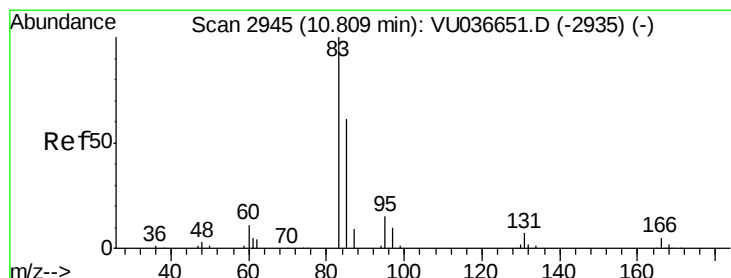
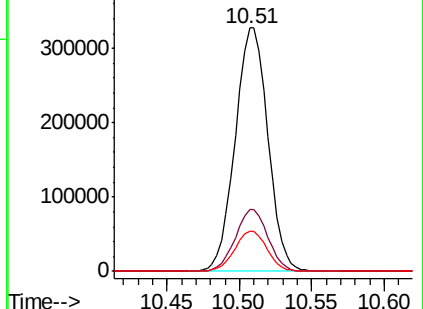
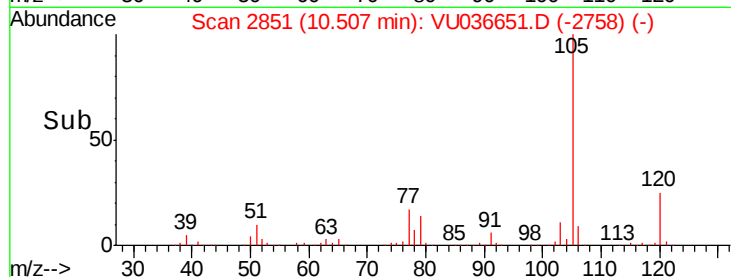
77 16.3 13.0 19.6



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: 55.221 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

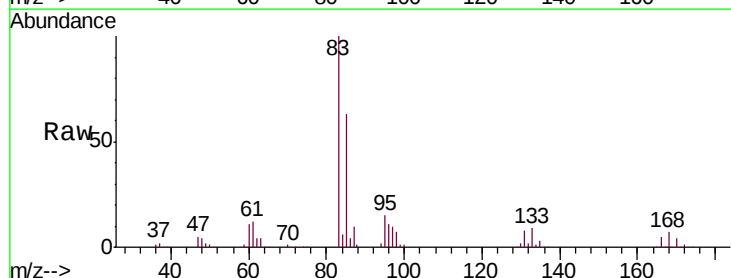
Tgt Ion: 83 Resp: 200382

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3

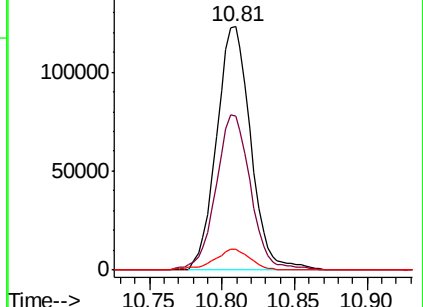
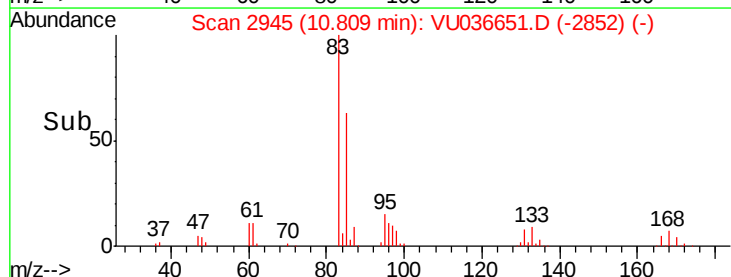
131 8.5 6.8 10.2

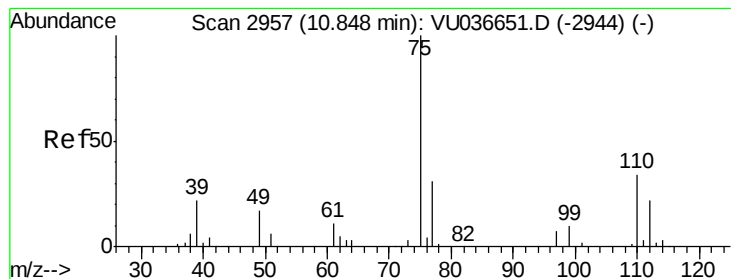


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 56.179 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

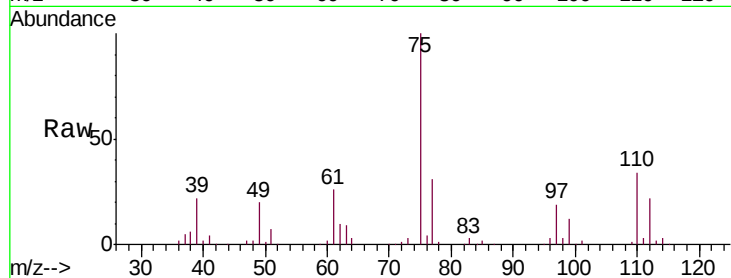
VSTD05032

Tgt Ion: 75 Resp: 160772

Ion Ratio Lower Upper

75 100

77 31.5 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VU036651.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU036651.D (-2944) (-)

10.85

100000

80000

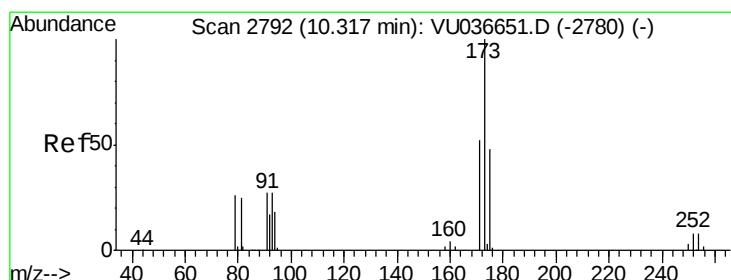
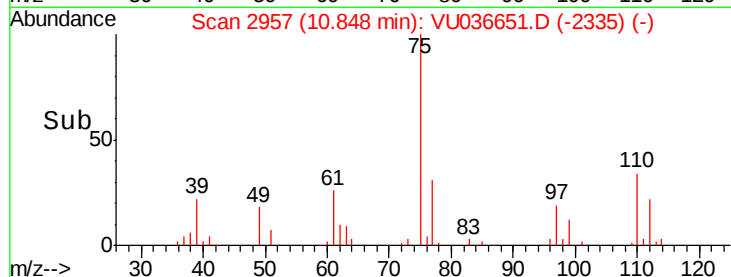
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.227 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

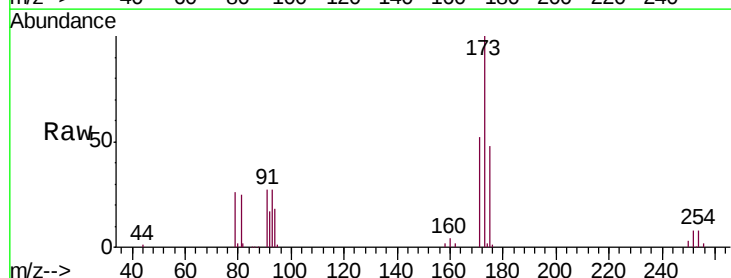
Tgt Ion: 173 Resp: 79851

Ion Ratio Lower Upper

173 100

175 48.3 38.6 58.0

254 7.5 6.0 9.0



Abundance Ion 173.00 (172.70 to 173.70): VU036651.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU036651.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU036651.D (-2780) (-)

10.32

60000

50000

40000

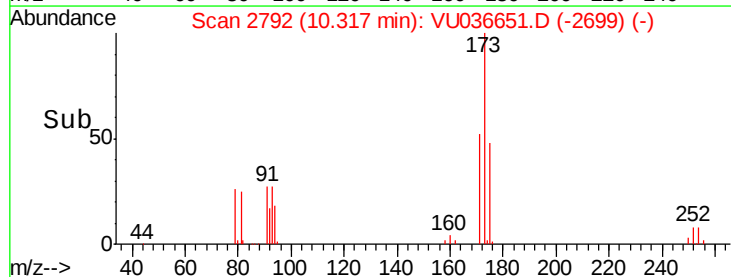
30000

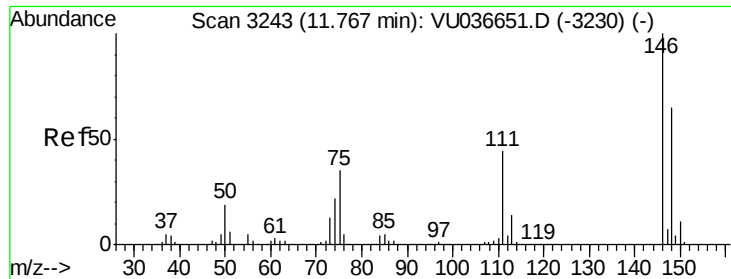
20000

10000

0

Time-->

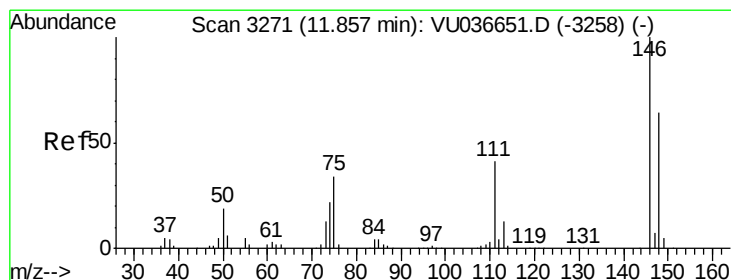
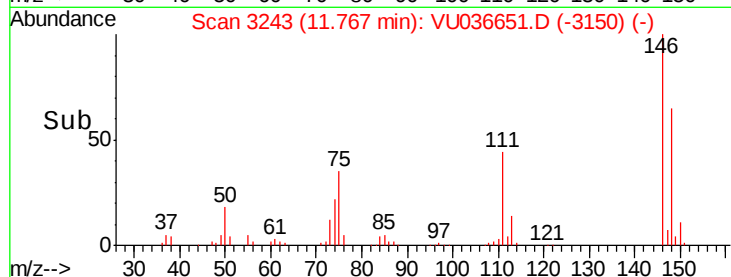
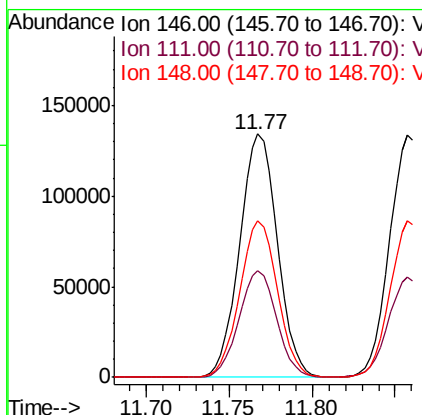
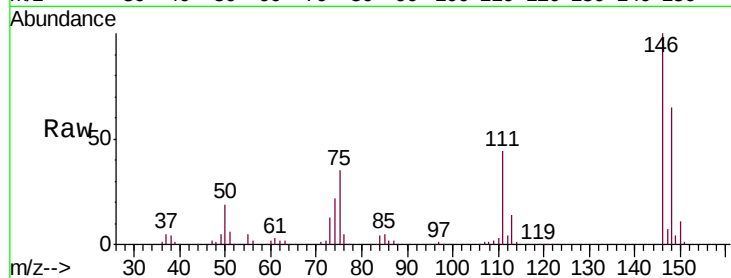




#62
 1,3-Dichlorobenzene
 Concen: 50.847 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

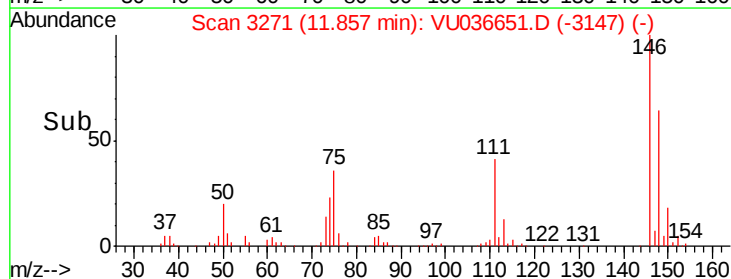
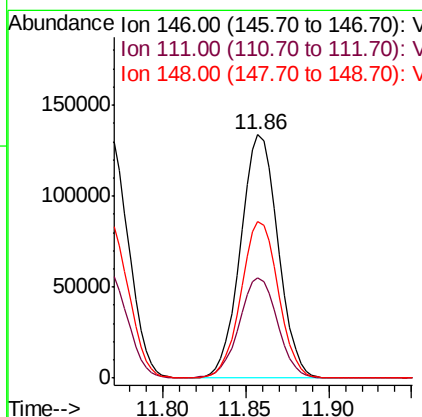
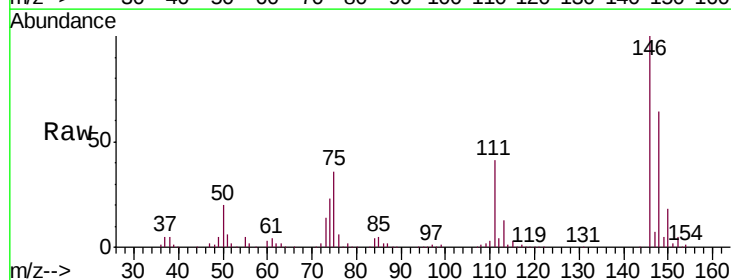
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

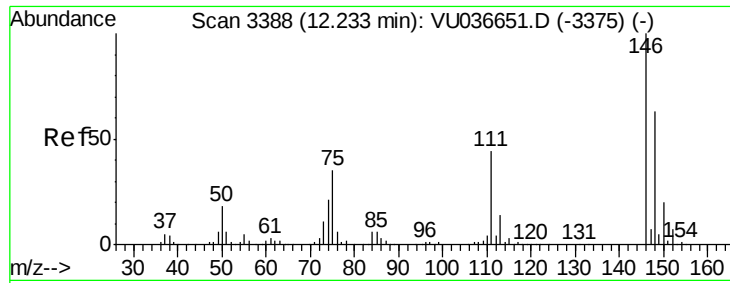
Tgt Ion:146 Resp: 212574
 Ion Ratio Lower Upper
 146 100
 111 43.7 30.6 56.8
 148 64.5 45.1 83.9



#63
 1,4-Dichlorobenzene
 Concen: 51.081 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion:146 Resp: 210494
 Ion Ratio Lower Upper
 146 100
 111 41.4 29.0 53.8
 148 64.4 45.1 83.7

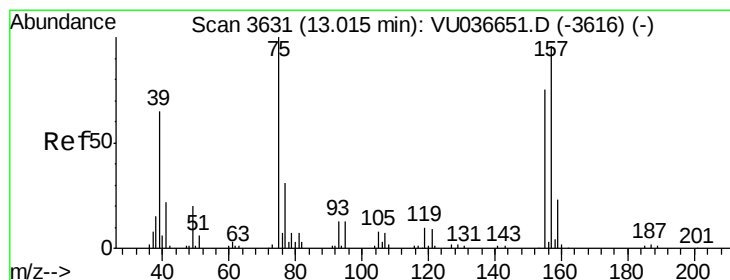
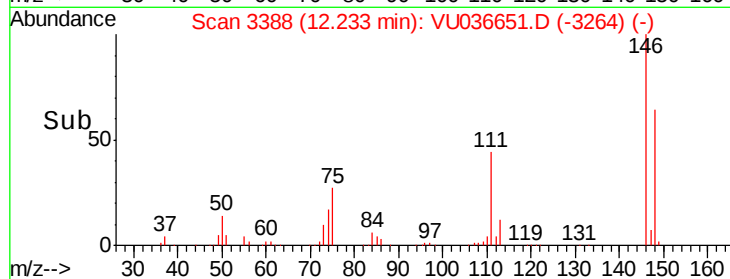
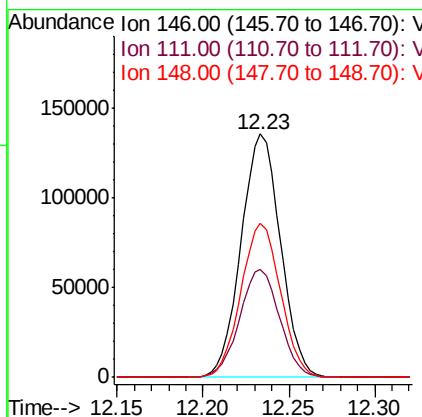
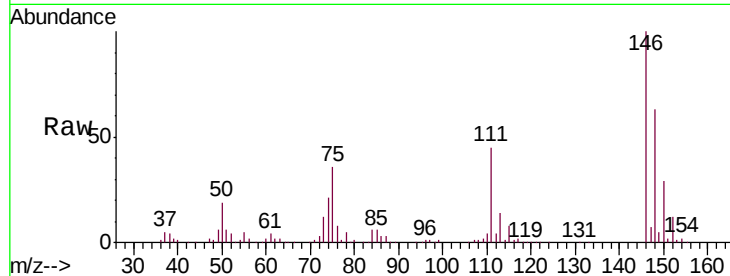




#65
 1,2-Dichlorobenzene
 Concen: 50.876 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

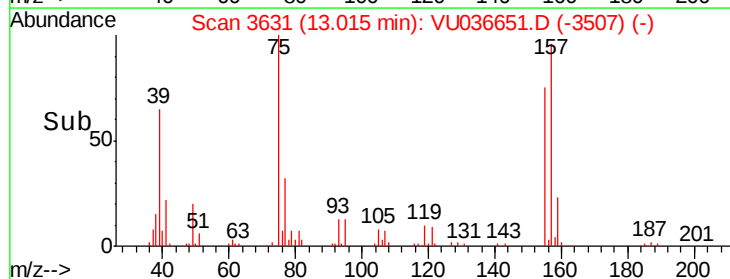
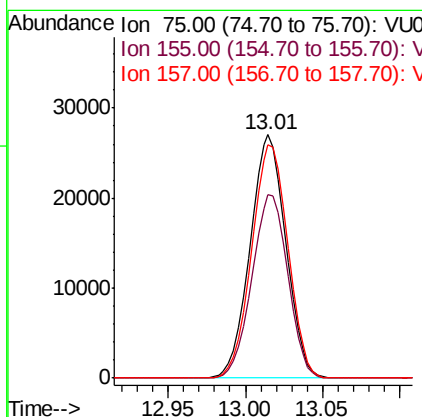
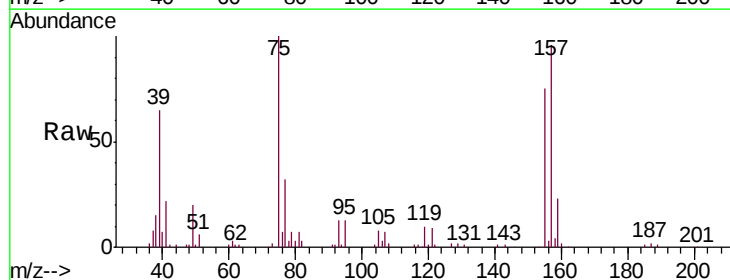
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

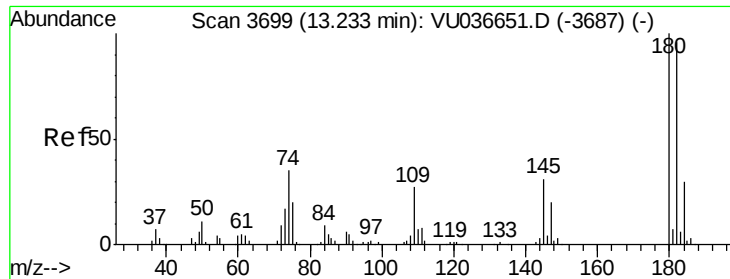
Tgt Ion: 146 Resp: 215495
 Ion Ratio Lower Upper
 146 100
 111 44.5 35.6 53.4
 148 63.3 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 61.691 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion: 75 Resp: 43514
 Ion Ratio Lower Upper
 75 100
 155 75.3 60.2 90.4
 157 95.9 76.7 115.1

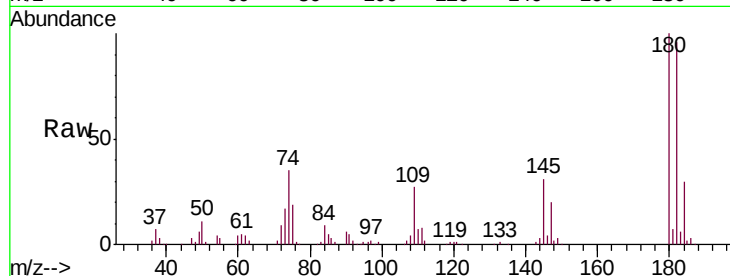




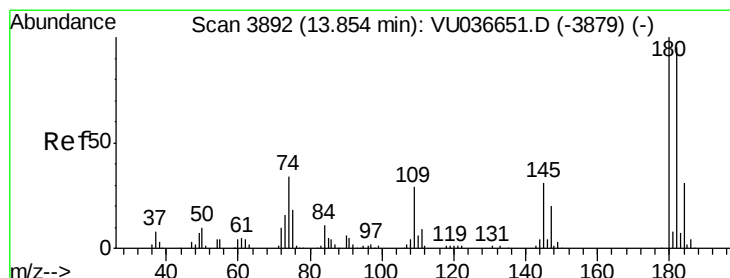
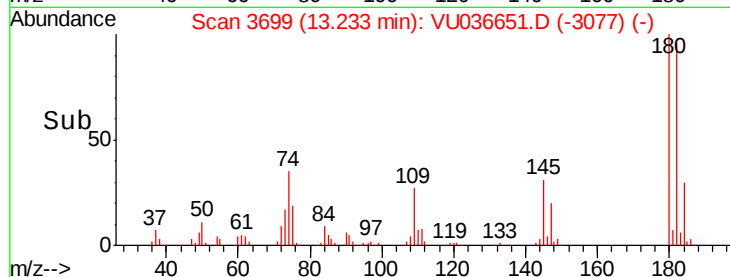
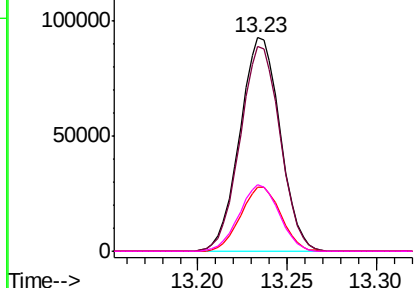
#67
 1,3,5-Trichlorobenzene
 Concen: 51.035 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion:180 Resp: 145534
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.2 114.4
 184 30.0 24.0 36.0
 145 30.9 24.7 37.1

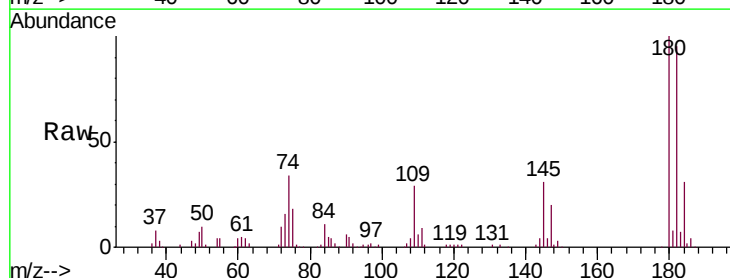


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

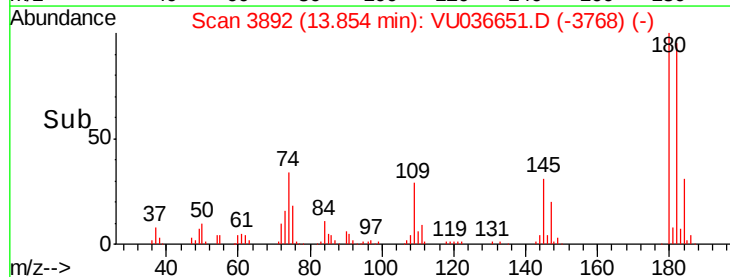
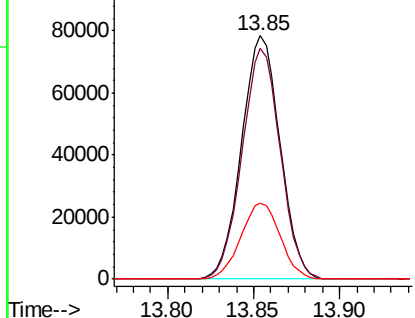


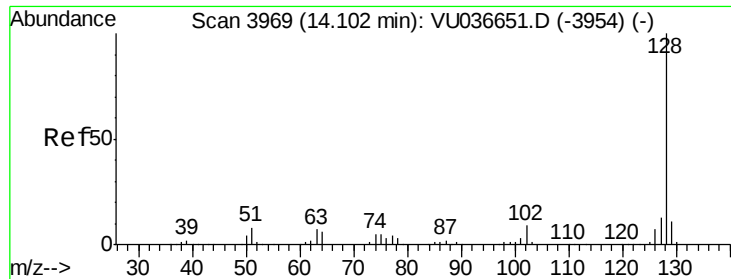
#68
 1,2,4-trichlorobenzene
 Concen: 58.650 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036651.D
 Acq: 31 Jan 2020 18:49

Tgt Ion:180 Resp: 121907
 Ion Ratio Lower Upper
 180 100
 182 94.0 75.2 112.8
 145 32.0 25.6 38.4



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





#69

Naphthalene

Concen: 71.356 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

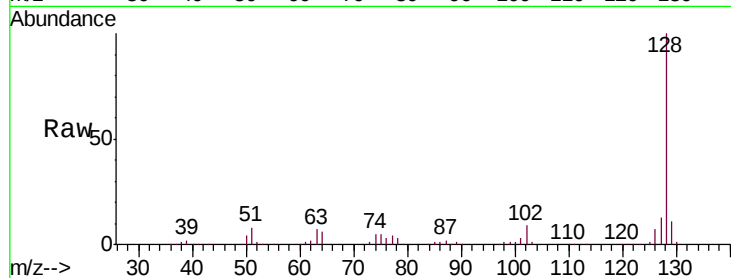
Tgt Ion:128 Resp: 461236

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

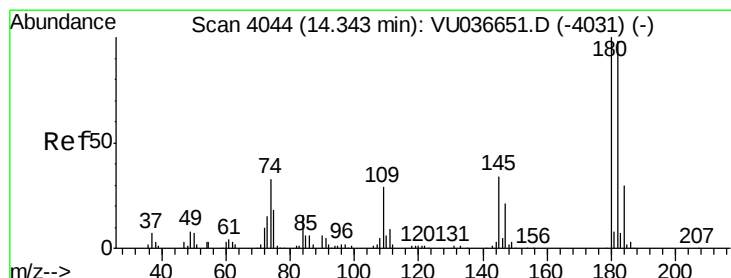
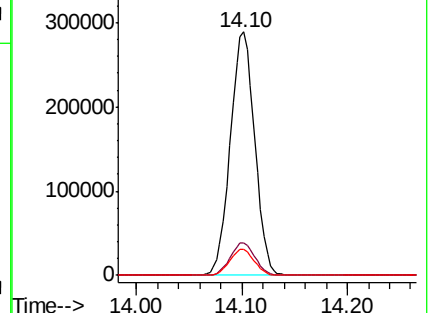
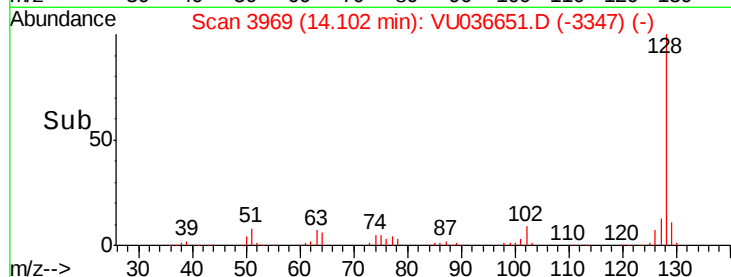
129 10.6 8.5 12.7



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: 58.238 ug/L

RT: 14.34 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VU036651.D

Acq: 31 Jan 2020 18:49

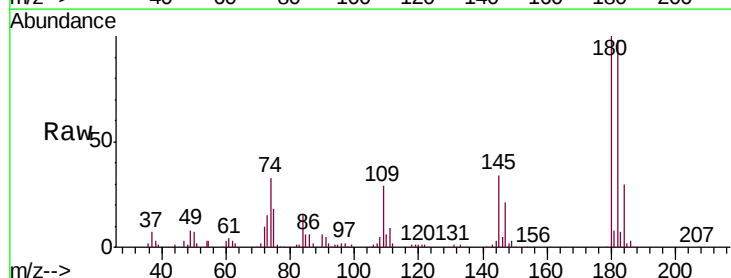
Tgt Ion:180 Resp: 125039

Ion Ratio Lower Upper

180 100

182 96.7 77.4 116.0

145 33.1 26.5 39.7



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

