

Data File : VU037861.D
Acq On : 23 Apr 2020 14:36
Operator : JC/MD
Sample : VSTD100
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10036

Quant Time: Apr 23 15:14:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 23 13:33:23 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	581019	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	570944	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	291363	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	466594	89.84	ug/L	0.00
7) Chloroethane-d5	1.93	69	361598	85.33	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	757912	86.31	ug/L	0.00
21) 2-Butanone-d5	4.66	46	719083	169.61	ug/L	0.00
24) Chloroform-d	5.10	84	727026	86.74	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	481529	83.36	ug/L	0.00
32) Benzene-d6	5.76	84	1485695	83.95	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	500135	84.03	ug/L	0.00
41) Toluene-d8	7.93	98	1370436	84.68	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	255979	85.04	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	542760	174.50	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	700782	85.58	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	520862	84.76	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	448625	87.578	ug/L	99
3) Chloromethane	1.54	50	482196	94.363	ug/L	98
5) Vinyl chloride	1.62	62	536034	89.580	ug/L	98
6) Bromomethane	1.86	94	233237	100.880	ug/L	97
8) Chloroethane	1.95	64	302177	85.995	ug/L	98
9) Trichlorofluoromethane	2.16	101	577310	87.237	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	335624	87.102	ug/L	99
12) 1,1-Dichloroethene	2.60	96	330575	87.015	ug/L	96
13) Acetone	2.65	43	441936	156.725	ug/L	100
14) Carbon disulfide	2.82	76	1152896	90.986	ug/L	99
15) Methyl Acetate	2.98	43	515325	82.012	ug/L	100
16) Methylene chloride	3.08	84	391693	85.877	ug/L	100
17) trans-1,2-Dichloroethene	3.39	96	362629	86.492	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	1262575	84.594	ug/L	100
19) 1,1-Dichloroethane	3.91	63	736189	84.565	ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	403354	86.077	ug/L	99
22) 2-Butanone	4.74	43	753834	162.684	ug/L	100
23) Bromochloromethane	5.01	128	192656	85.609	ug/L	100
25) Chloroform	5.13	83	684557	83.982	ug/L	99
27) 1,2-Dichloroethane	5.83	62	585893	83.377	ug/L	99
29) Cyclohexane	5.42	56	736468	85.845	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	595300	85.083	ug/L	100
31) Carbon tetrachloride	5.56	117	490043	87.060	ug/L	99
33) Benzene	5.81	78	1597099	85.344	ug/L	100
34) Trichloroethene	6.57	95	389743	84.364	ug/L	98
35) Methylcyclohexane	6.79	83	705462	87.465	ug/L	99
37) 1,2-Dichloropropane	6.82	63	441784	83.577	ug/L	100
38) Bromodichloromethane	7.13	83	534062	83.955	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	718102	86.248	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	1478683	163.984	ug/L	99

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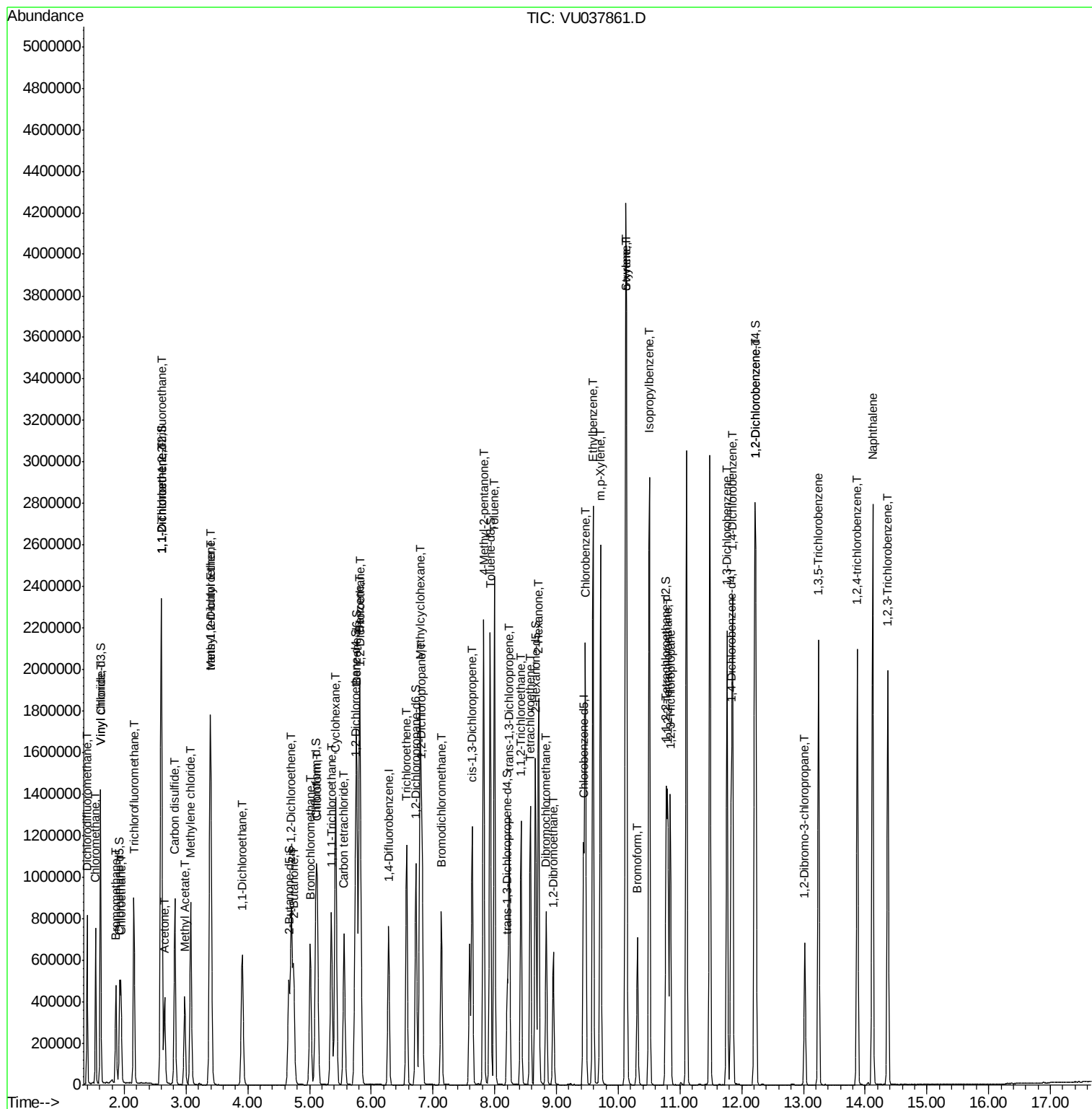
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	1681951	84.872	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	682445	85.278	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	379809	83.155	ug/L	99
46) Tetrachloroethene	8.58	164	289132	87.124	ug/L	98
48) 2-Hexanone	8.71	43	1169640	163.508	ug/L	99
49) Dibromochloromethane	8.84	129	403290	84.812	ug/L	98
50) 1,2-Dibromoethane	8.95	107	409771	83.581	ug/L	100
51) Chlorobenzene	9.47	112	1039437	83.990	ug/L	100
52) Ethylbenzene	9.59	91	1909422	85.912	ug/L	100
53) m,p-Xylene	9.72	106	721878	85.649	ug/L	99
54) o-xylene	10.12	106	703133	85.851	ug/L	98
55) Styrene	10.13	104	1225699	86.350	ug/L	99
56) Isopropylbenzene	10.50	105	1866051	85.748	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	685916	84.281	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	574061	81.487	ug/L	99
61) Bromoform	10.31	173	310987	85.229	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	836900	84.920	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	842534	84.672	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	818188	84.156	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	177910	83.729	ug/L	99
67) 1,3,5-Trichlorobenzene	13.25	180	631986	88.336	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	612842	90.049	ug/L	100
69) Naphthalene	14.12	128	2140966	89.311	ug/L	100
70) 1,2,3-Trichlorobenzene	14.37	180	605758	89.445	ug/L	100

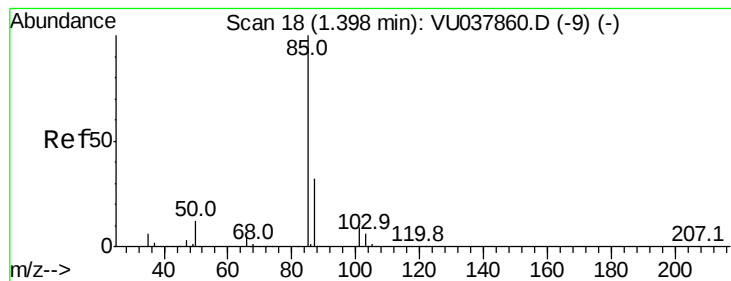
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 87.578 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

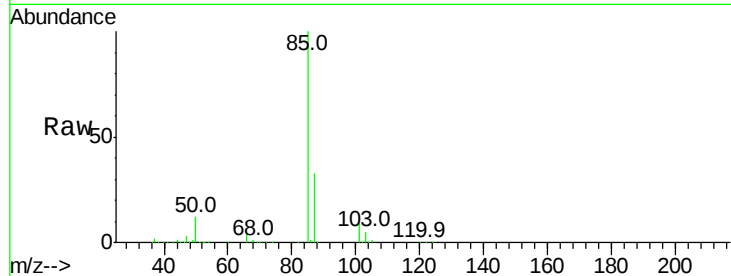
VSTD10036

Tgt Ion: 85 Resp: 448625

Ion Ratio Lower Upper

85 100

87 32.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.39

400000

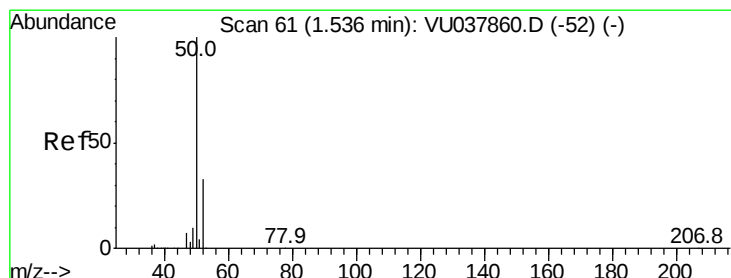
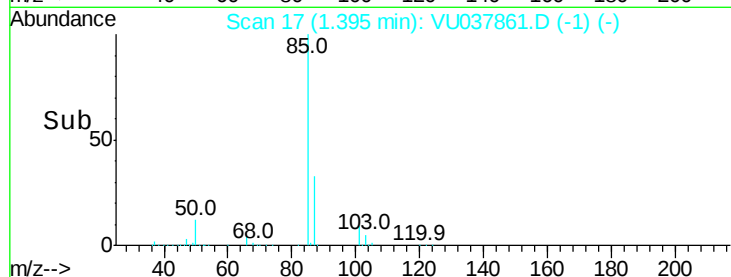
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 94.363 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037861.D

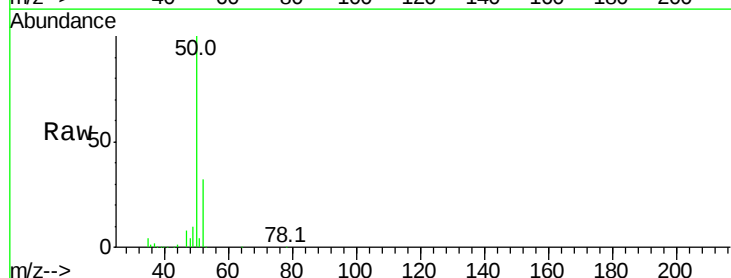
Acq: 23 Apr 2020 14:36

Tgt Ion: 50 Resp: 482196

Ion Ratio Lower Upper

50 100

52 31.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.54

500000

400000

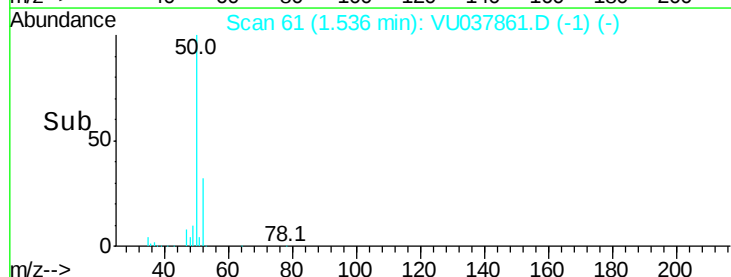
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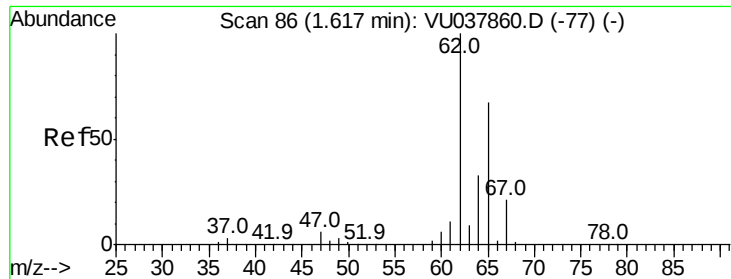
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 89.580 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

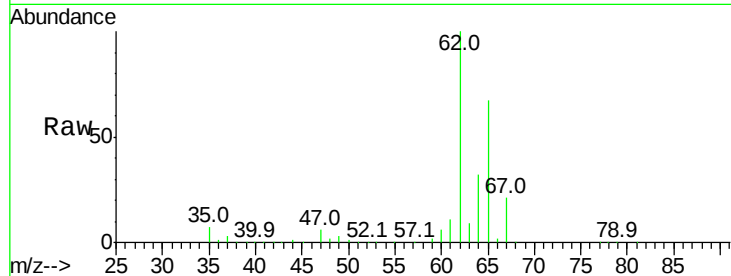
VSTD10036

Tgt Ion: 62 Resp: 536034

Ion Ratio Lower Upper

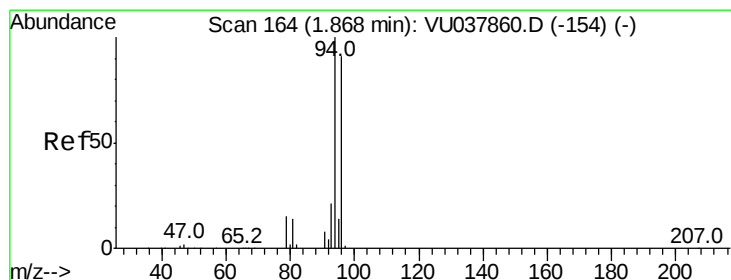
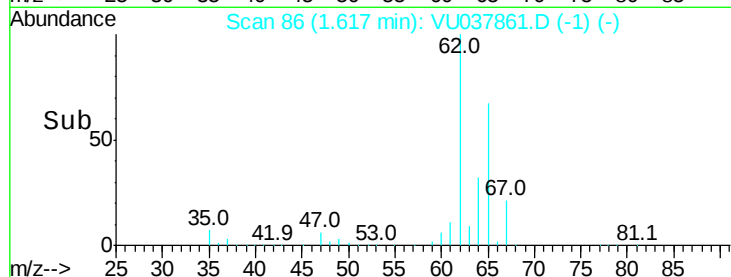
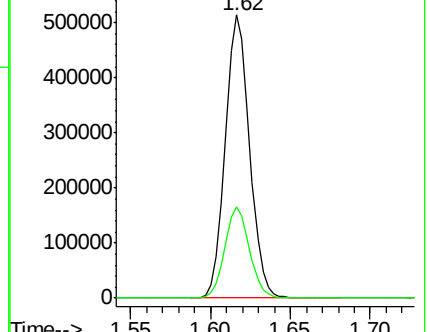
62 100

64 32.1 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU037861.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037861.D (-1) (-)



#6

Bromomethane

Concen: 100.880 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU037861.D

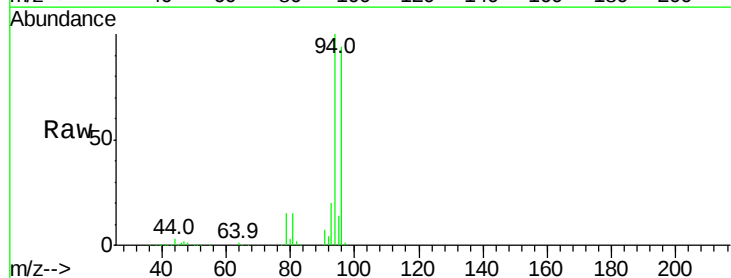
Acq: 23 Apr 2020 14:36

Tgt Ion: 94 Resp: 233237

Ion Ratio Lower Upper

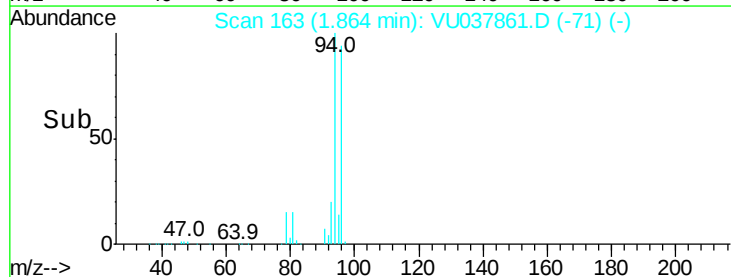
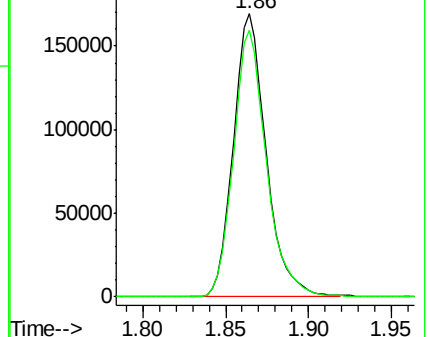
94 100

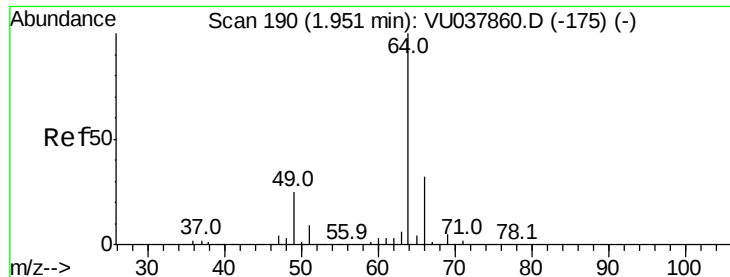
96 94.2 63.9 118.7



Abundance Ion 94.00 (93.70 to 94.70): VU037861.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU037861.D (-71) (-)





#8

Chloroethane

Concen: 85.995 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

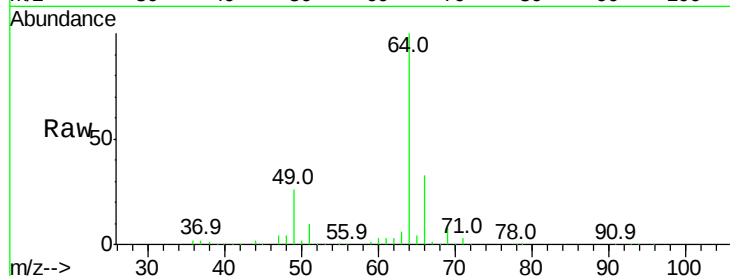
VSTD10036

Tgt Ion: 64 Resp: 302177

Ion Ratio Lower Upper

64 100

66 32.7 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037861.D (-189) (-)

Ion 66.00 (65.70 to 66.70): VU037861.D (-189) (-)

1.95

200000

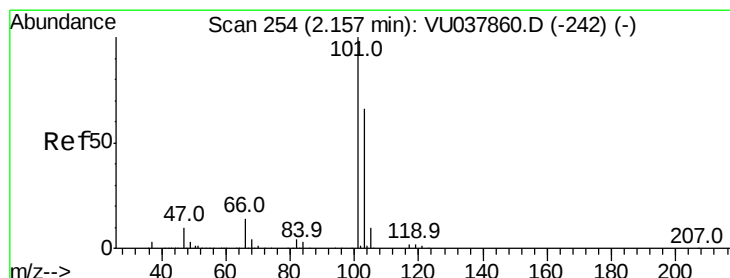
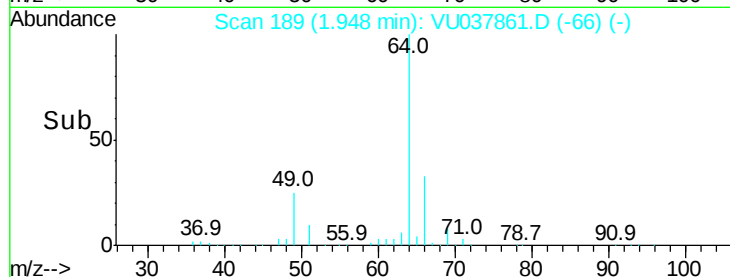
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 87.237 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037861.D

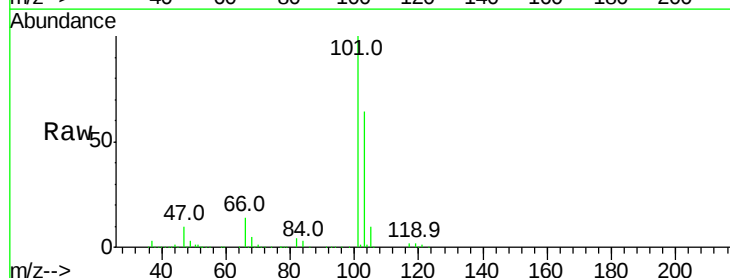
Acq: 23 Apr 2020 14:36

Tgt Ion: 101 Resp: 577310

Ion Ratio Lower Upper

101 100

103 64.2 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU037861.D (-254) (-)

Ion 103.00 (102.70 to 103.70): VU037861.D (-254) (-)

2.16

400000

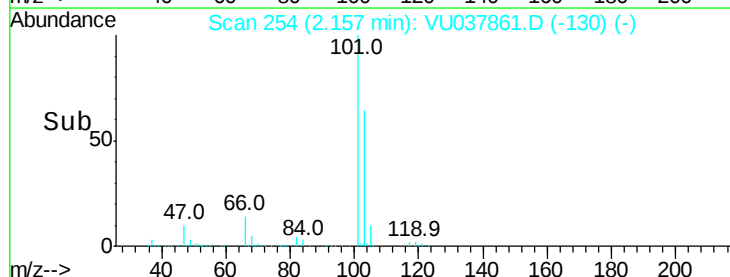
300000

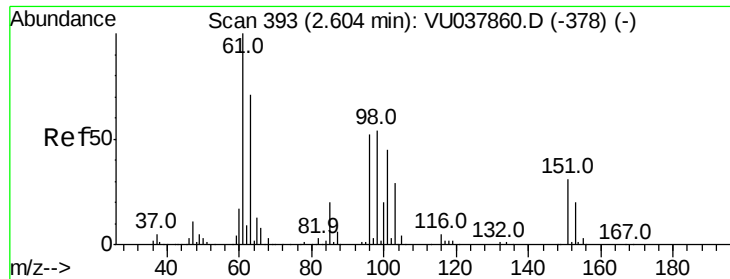
200000

100000

0

Time-->





#10

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

Concen: 87.102 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

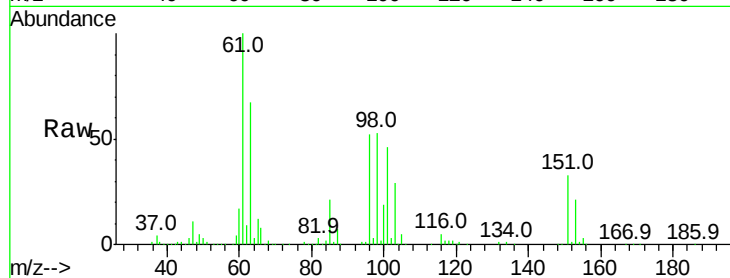
Tgt Ion: 101 Resp: 335624

Ion Ratio Lower Upper

101 100

85 44.8 36.2 54.4

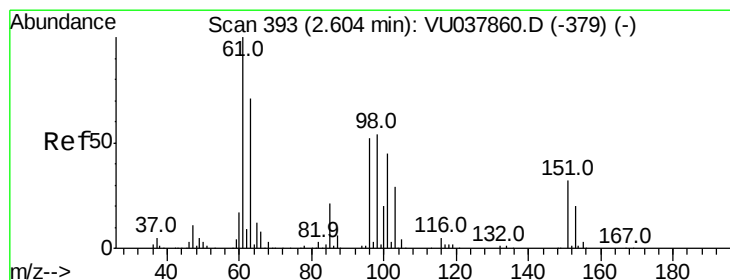
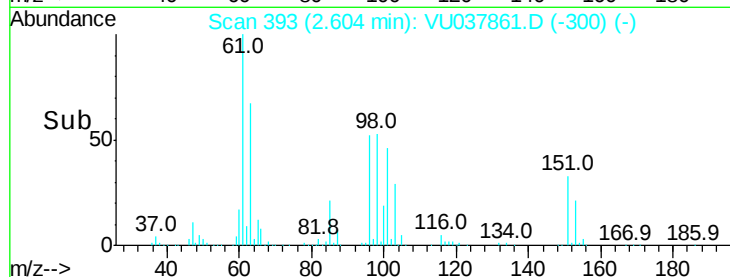
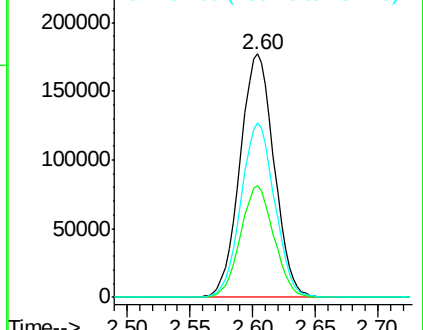
151 70.9 55.5 83.3



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: 87.015 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

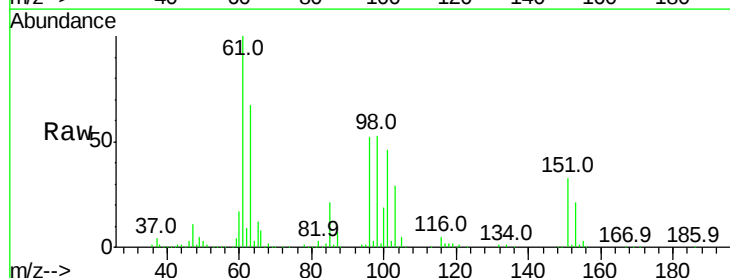
Tgt Ion: 96 Resp: 330575

Ion Ratio Lower Upper

96 100

61 190.7 134.1 249.0

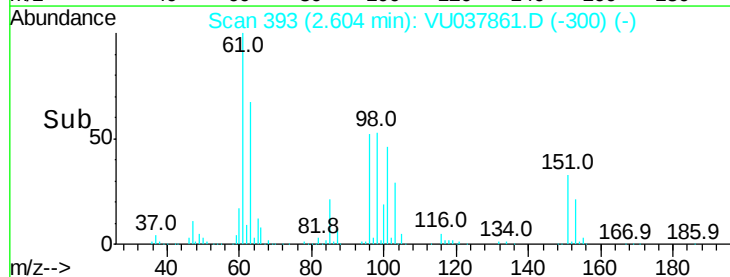
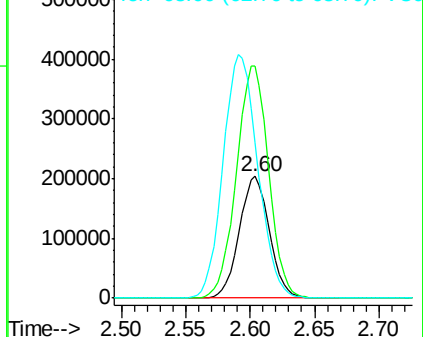
63 127.5 96.5 179.1

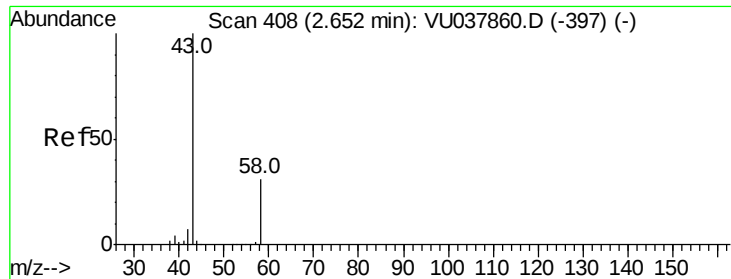


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 156.725 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

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ClientSampleId :

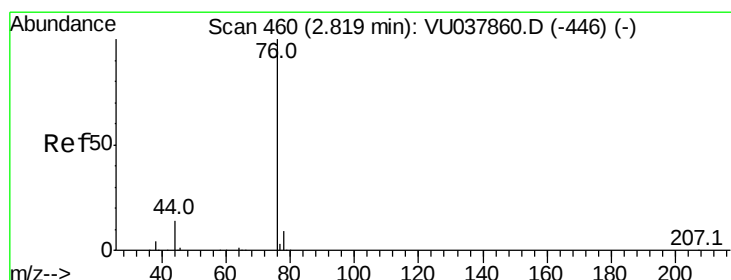
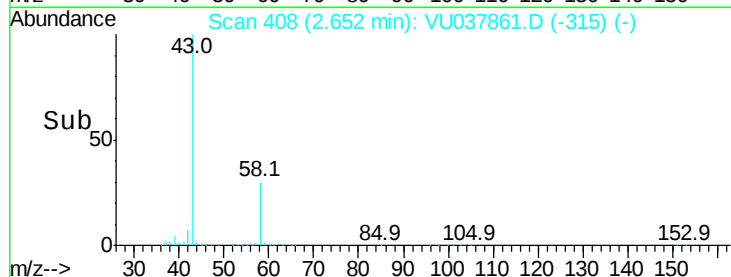
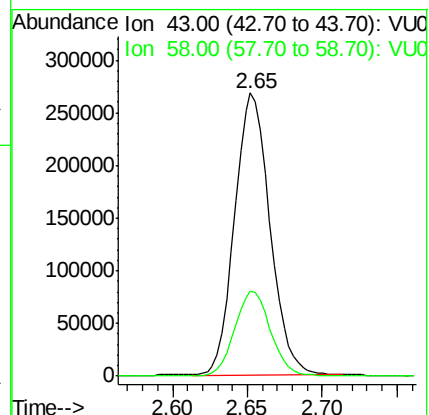
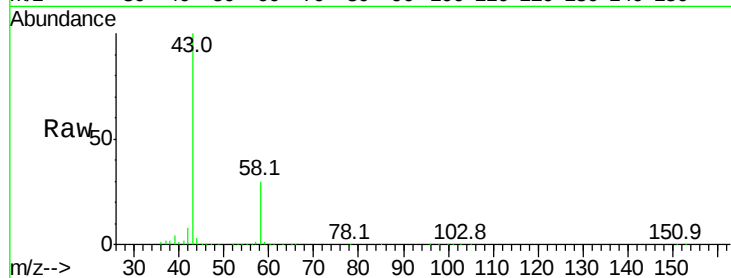
VSTD10036

Tgt Ion: 43 Resp: 441936

Ion Ratio Lower Upper

43 100

58 30.7 0.0 62.0



#14

Carbon disulfide

Concen: 90.986 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037861.D

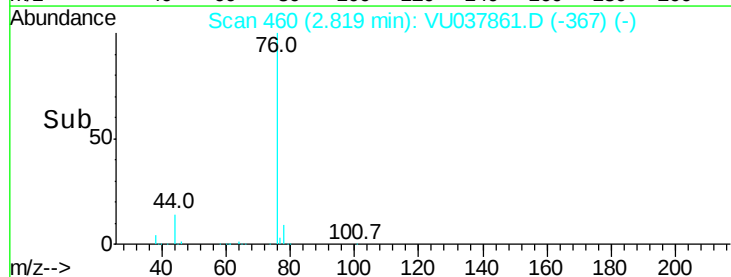
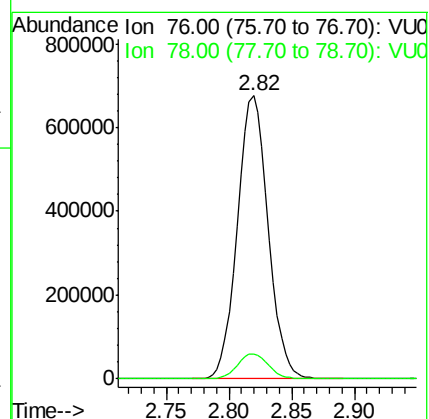
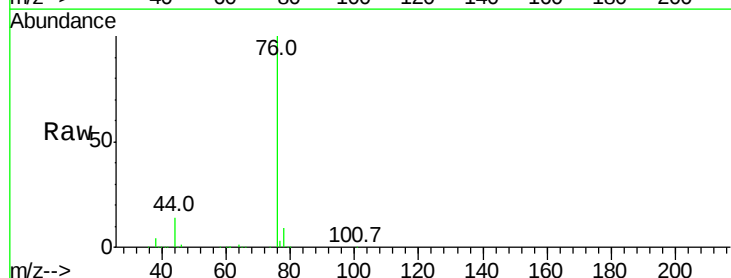
Acq: 23 Apr 2020 14:36

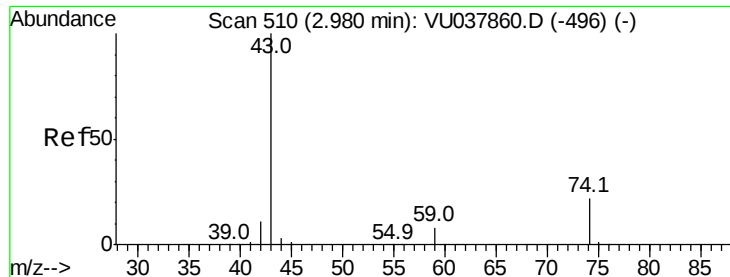
Tgt Ion: 76 Resp: 1152896

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

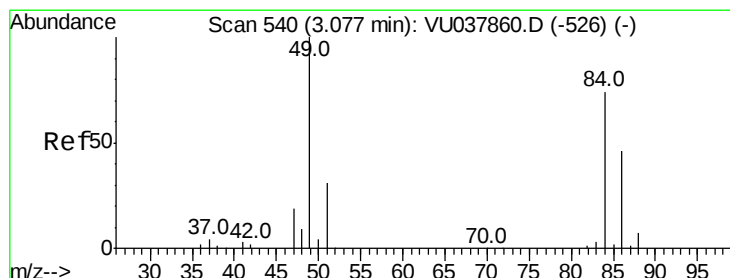
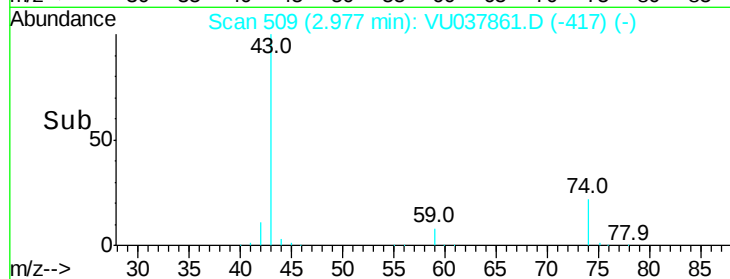
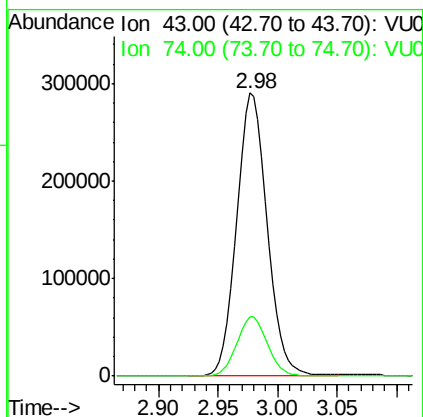
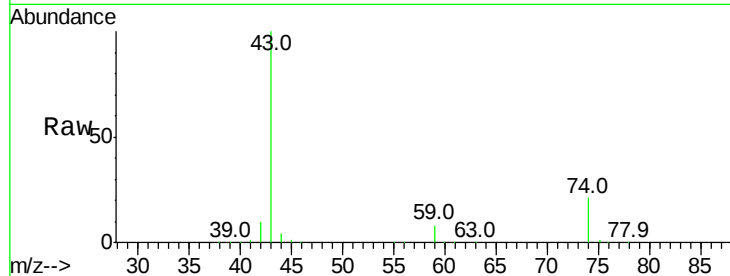




#15
Methyl Acetate
Concen: 82.012 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU037861.D
Acq: 23 Apr 2020 14:36

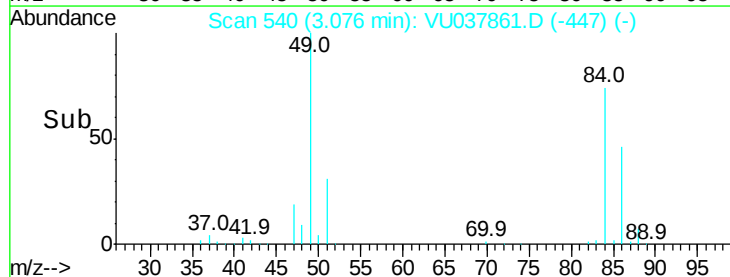
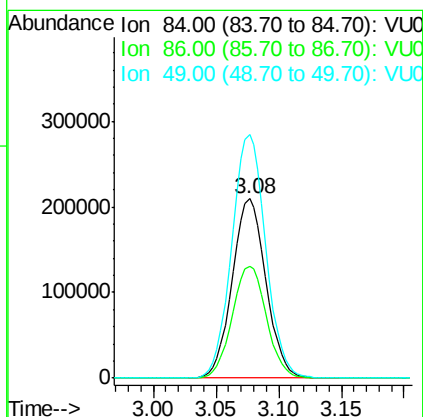
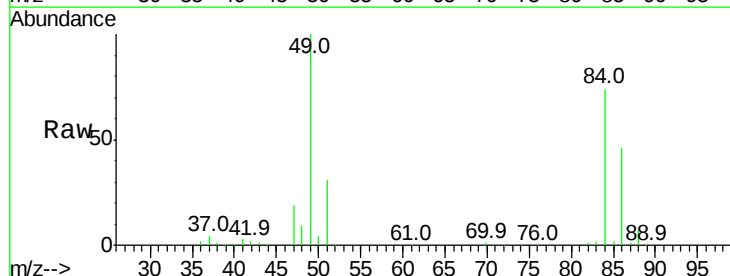
Instrument :
MSVOA_U
ClientSampleId :
VSTD10036

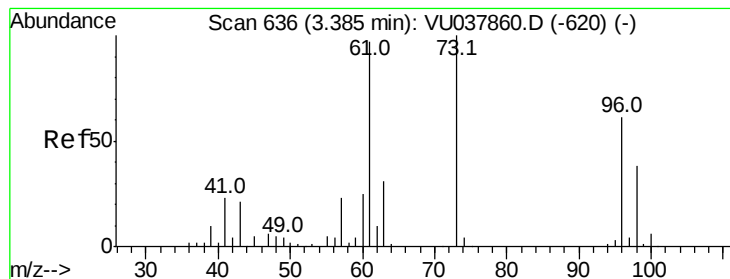
Tgt Ion: 43 Resp: 515325
Ion Ratio Lower Upper
43 100
74 21.0 17.0 25.4



#16
Methylene chloride
Concen: 85.877 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037861.D
Acq: 23 Apr 2020 14:36

Tgt Ion: 84 Resp: 391693
Ion Ratio Lower Upper
84 100
86 62.5 43.5 80.7
49 135.7 95.1 176.7





#17

trans-1,2-Dichloroethene

Concen: 86.492 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

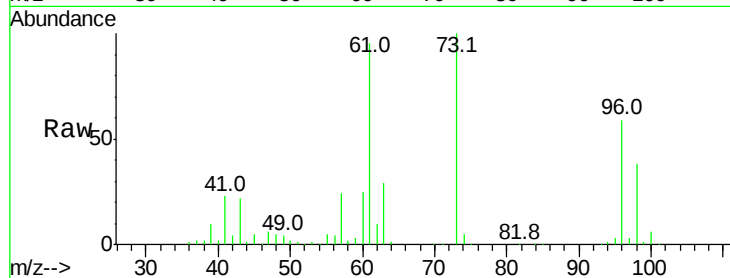
Tgt Ion: 96 Resp: 362629

Ion Ratio Lower Upper

96 100

61 159.8 111.4 207.0

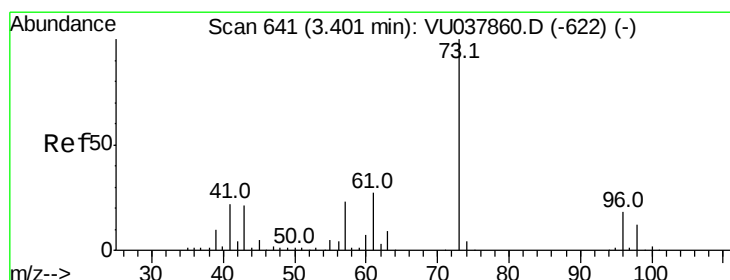
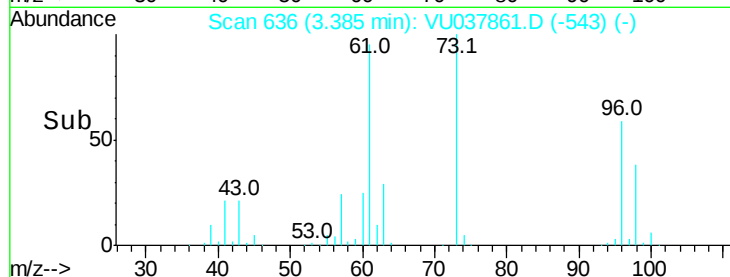
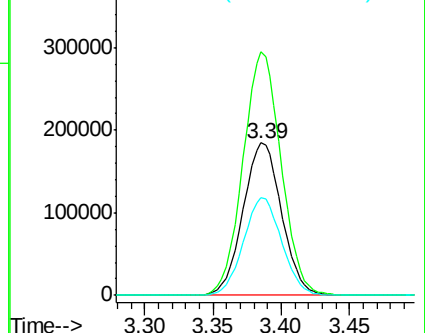
98 63.9 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU037861.D (-620) (-)

Ion 61.00 (60.70 to 61.70): VU037861.D (-620) (-)

Ion 98.00 (97.70 to 98.70): VU037861.D (-620) (-)



#18

Methyl tert-butyl Ether

Concen: 84.594 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

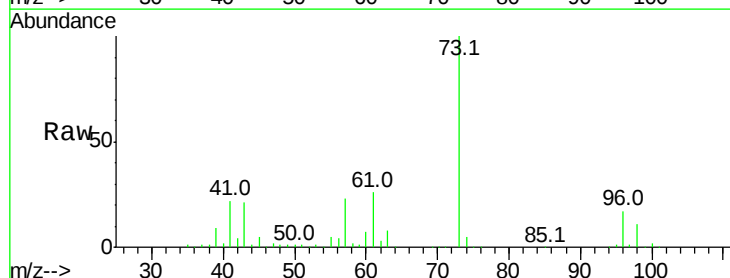
Tgt Ion: 73 Resp: 1262575

Ion Ratio Lower Upper

73 100

43 21.2 17.0 25.6

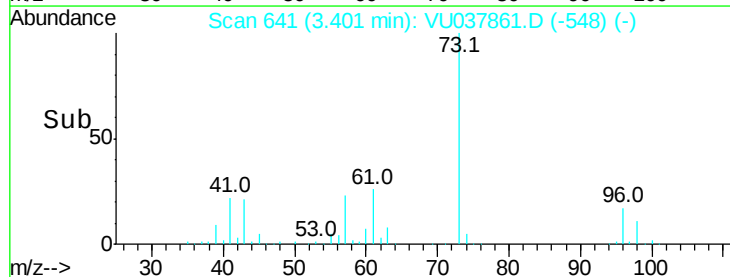
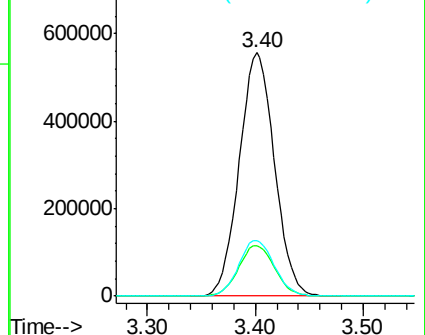
57 23.2 18.7 28.1

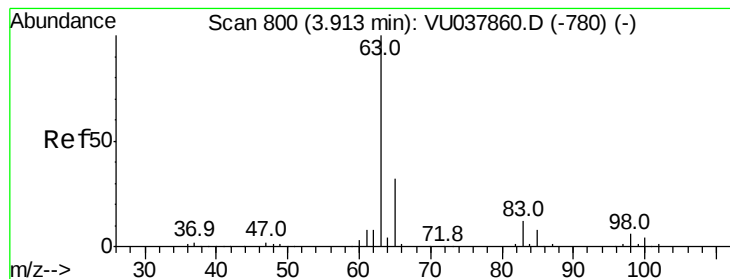


Abundance Ion 73.00 (72.70 to 73.70): VU037861.D (-622) (-)

Ion 43.00 (42.70 to 43.70): VU037861.D (-622) (-)

Ion 57.00 (56.70 to 57.70): VU037861.D (-622) (-)





#19

1,1-Dichloroethane

Concen: 84.565 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

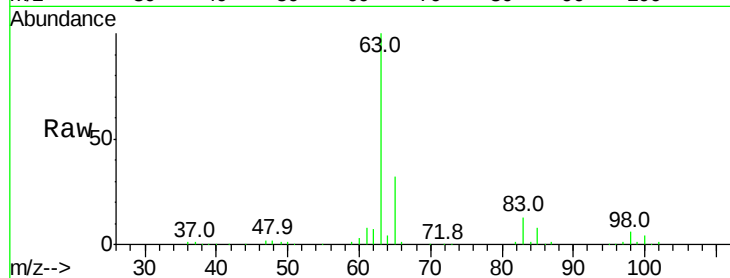
Tgt Ion: 63 Resp: 736189

Ion Ratio Lower Upper

63 100

65 31.9 22.2 41.2

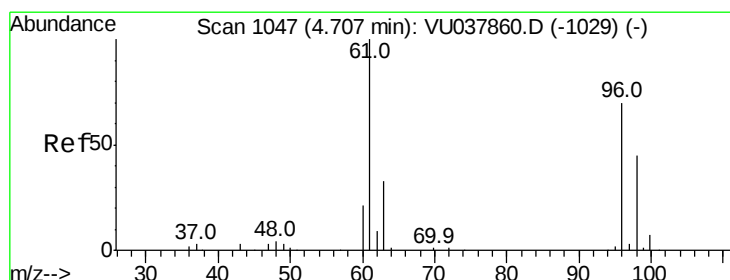
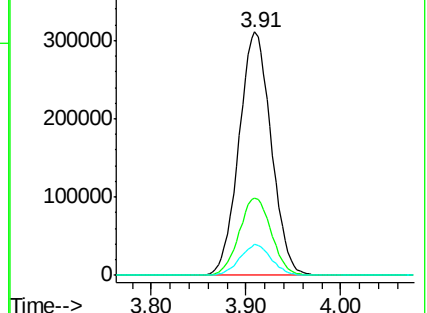
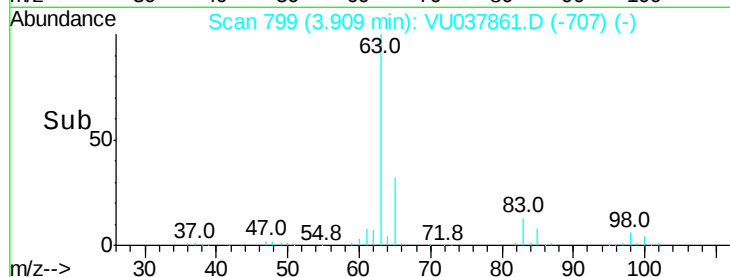
83 12.6 8.6 16.0



Abundance Ion 63.00 (62.70 to 63.70): VU037861.D (-799) (-)

Ion 65.00 (64.70 to 65.70): VU037861.D (-799) (-)

Ion 83.00 (82.70 to 83.70): VU037861.D (-799) (-)



#20

cis-1,2-Dichloroethene

Concen: 86.077 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

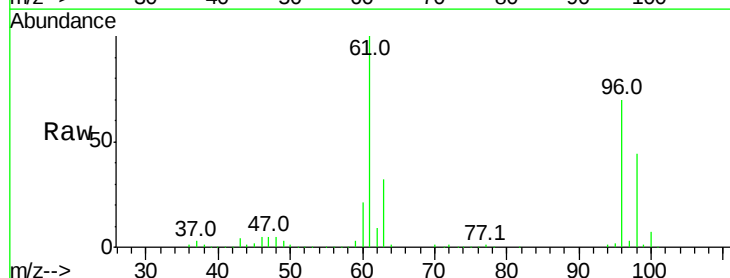
Tgt Ion: 96 Resp: 403354

Ion Ratio Lower Upper

96 100

61 142.1 100.4 186.4

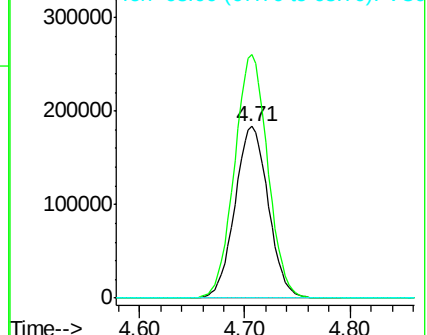
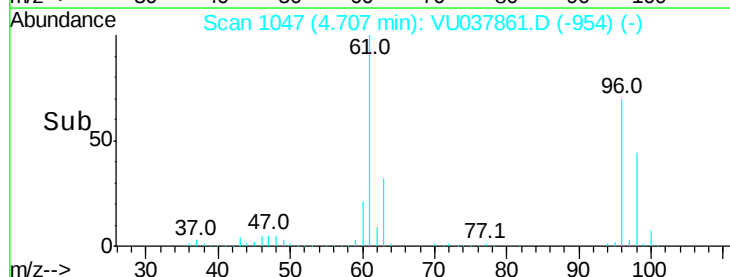
68 0.0 0.0 0.0

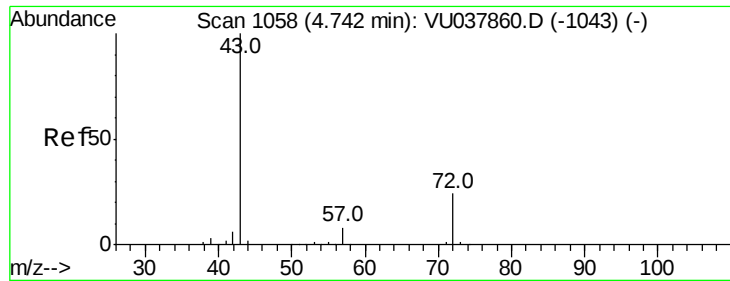


Abundance Ion 96.00 (95.70 to 96.70): VU037861.D (-1047) (-)

Ion 61.00 (60.70 to 61.70): VU037861.D (-1047) (-)

Ion 68.00 (67.70 to 68.70): VU037861.D (-1047) (-)





#22

2-Butanone

Concen: 162.684 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

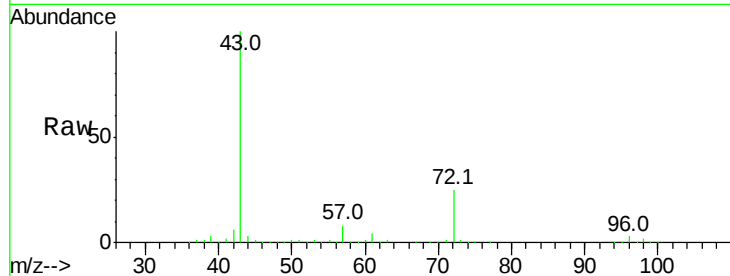
VSTD10036

Tgt Ion: 43 Resp: 753834

Ion Ratio Lower Upper

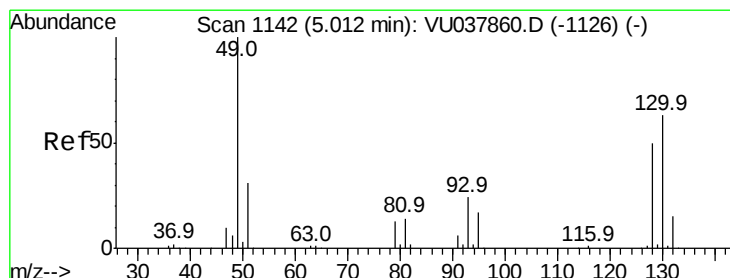
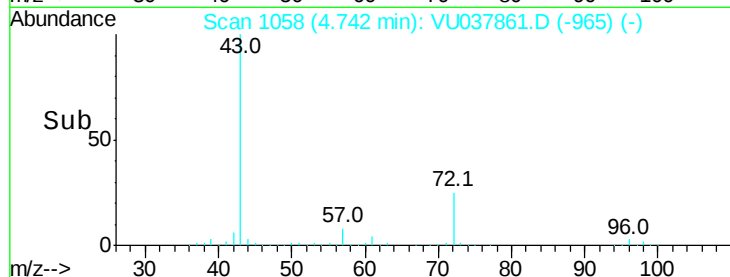
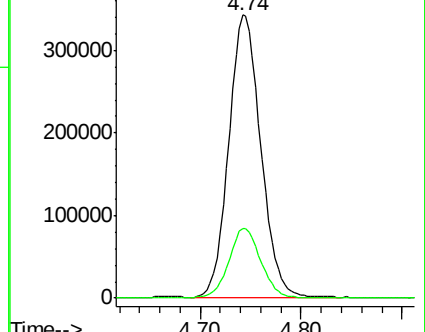
43 100

72 24.9 12.6 37.6



Abundance Ion 43.00 (42.70 to 43.70): VU037861.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU037861.D (-965) (-)



#23

Bromochloromethane

Concen: 85.609 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Tgt Ion: 128 Resp: 192656

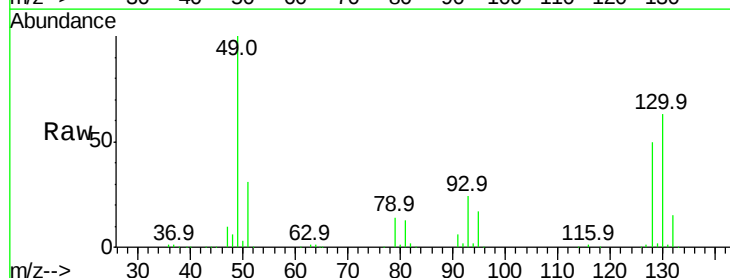
Ion Ratio Lower Upper

128 100

49 201.5 140.9 261.7

130 126.9 88.6 164.6

51 62.9 50.0 75.0

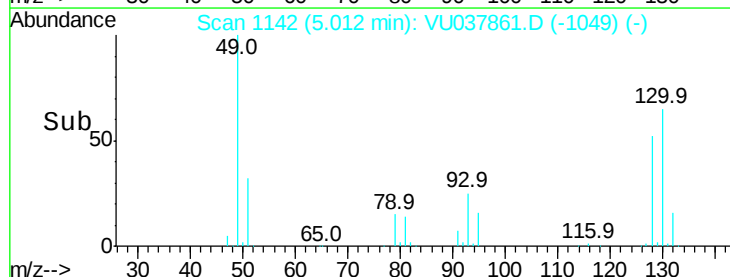
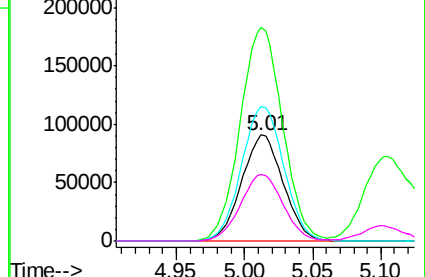


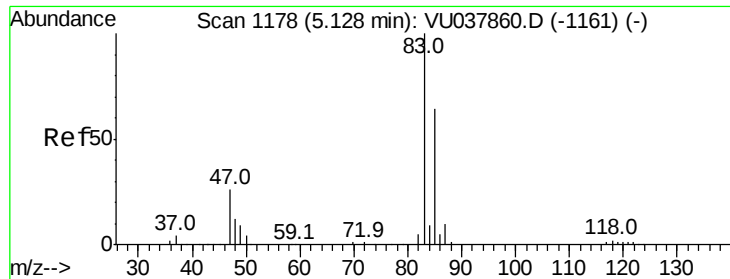
Abundance Ion 128.00 (127.70 to 128.70): VU037861.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037861.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037861.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037861.D (-1049) (-)





#25

Chloroform

Concen: 83.982 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

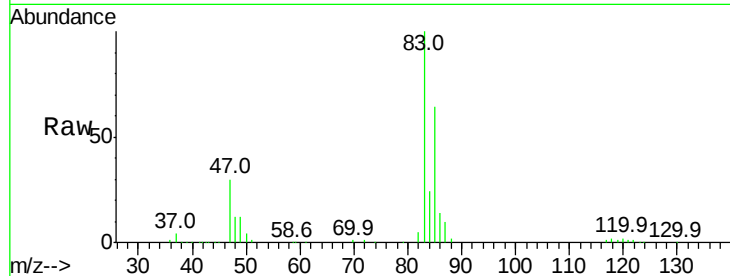
VSTD10036

Tgt Ion: 83 Resp: 684557

Ion Ratio Lower Upper

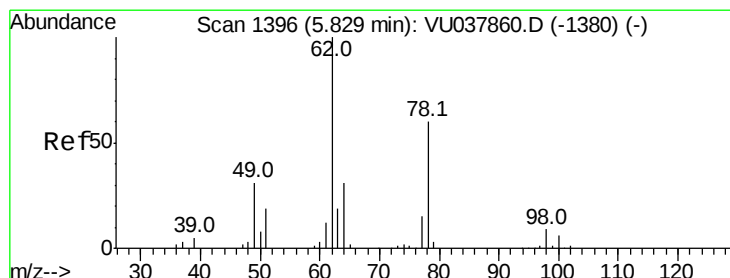
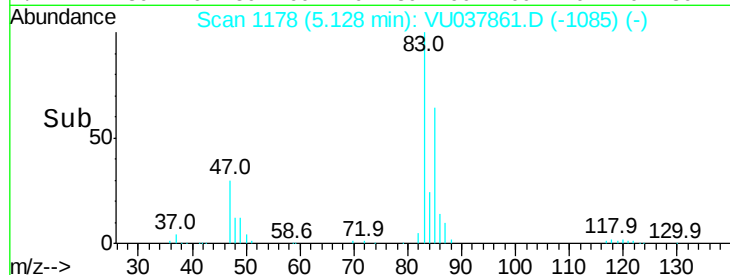
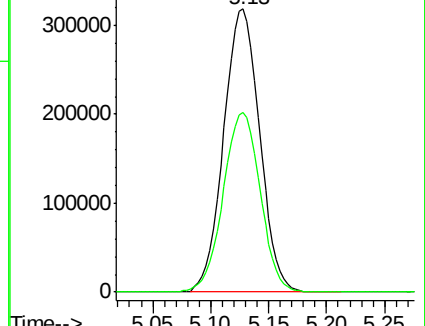
83 100

85 63.7 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 83.377 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU037861.D

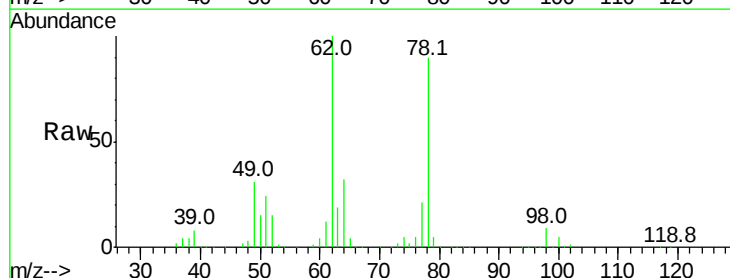
Acq: 23 Apr 2020 14:36

Tgt Ion: 62 Resp: 585893

Ion Ratio Lower Upper

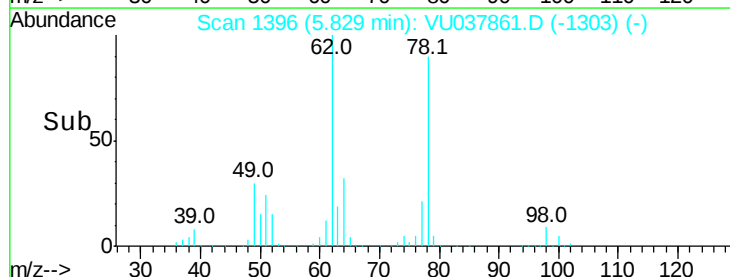
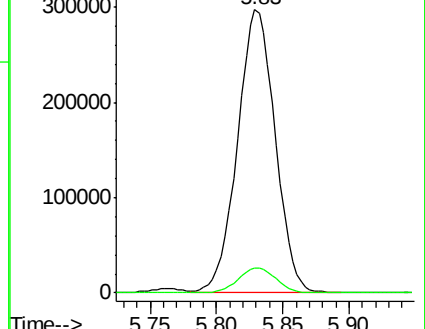
62 100

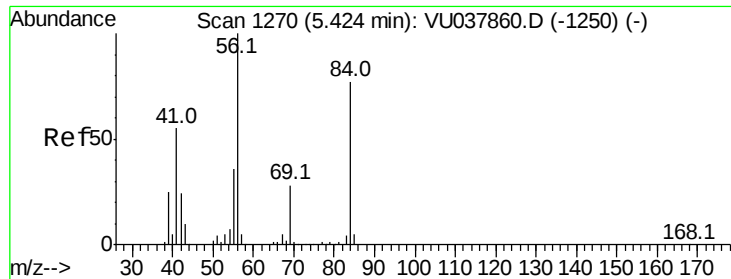
98 8.8 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#29

Cyclohexane

Concen: 85.845 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

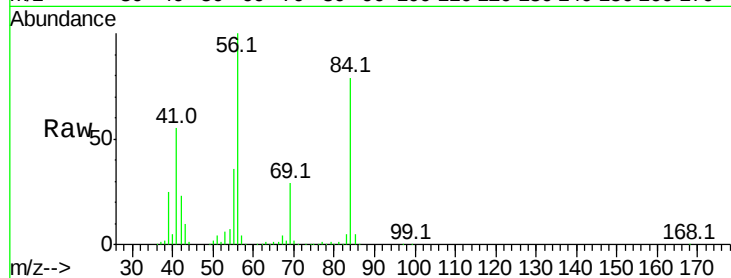
Tgt Ion: 56 Resp: 736468

Ion Ratio Lower Upper

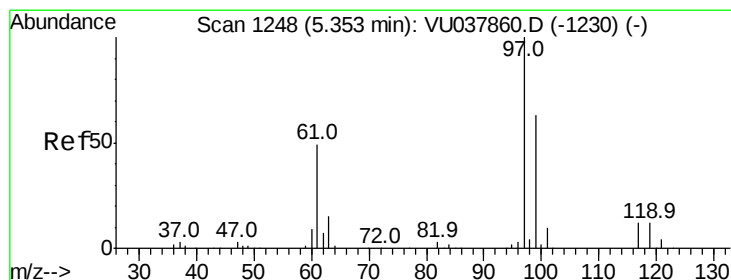
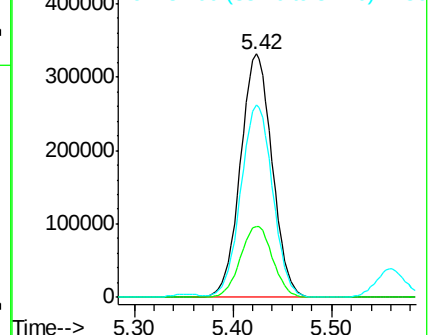
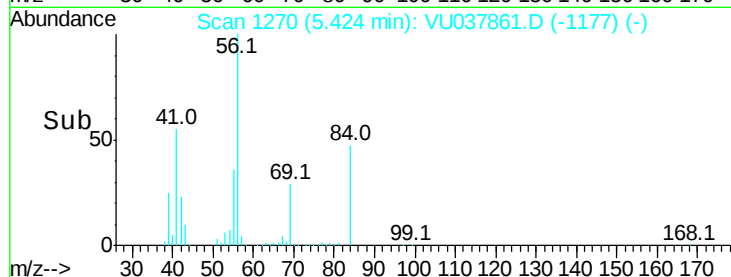
56 100

69 29.5 22.9 34.3

84 79.5 63.6 95.4



Abundance Ion 56.00 (55.70 to 56.70): VU037861.D (-1177) (-)



#30

1,1,1-Trichloroethane

Concen: 85.083 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

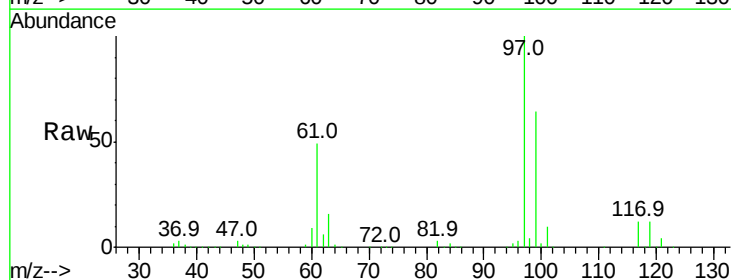
Tgt Ion: 97 Resp: 595300

Ion Ratio Lower Upper

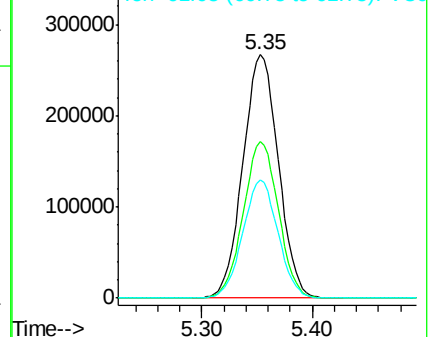
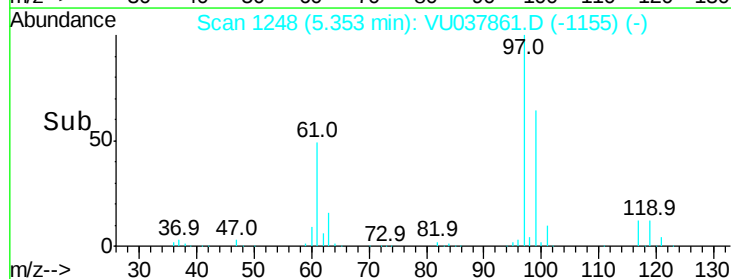
97 100

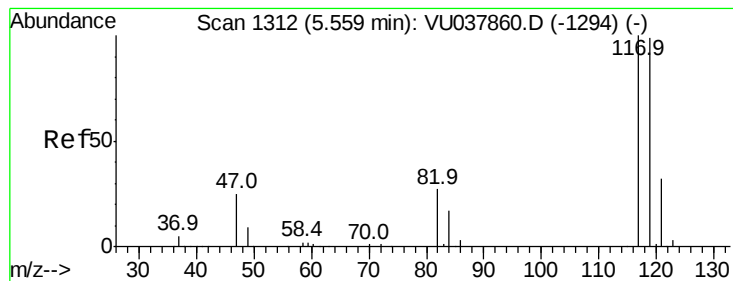
99 63.6 50.7 76.1

61 48.1 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VU037861.D (-1155) (-)





#31

Carbon tetrachloride

Concen: 87.060 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

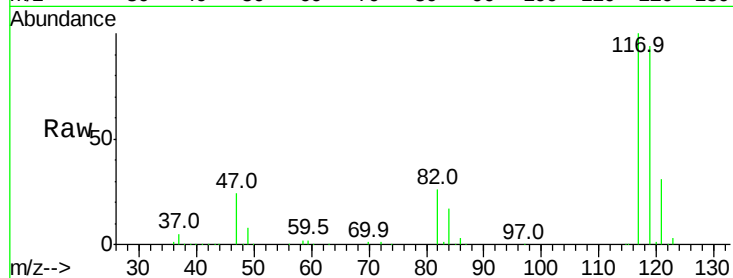
VSTD10036

Tgt Ion:117 Resp: 490043

Ion Ratio Lower Upper

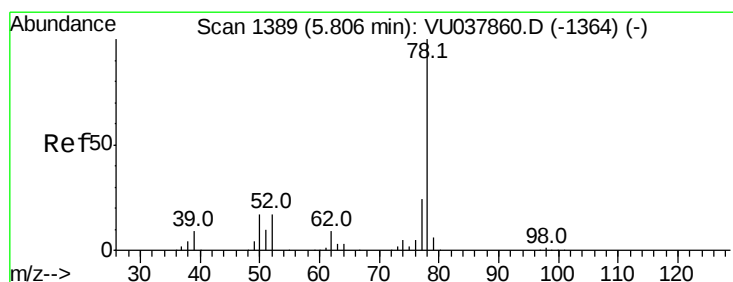
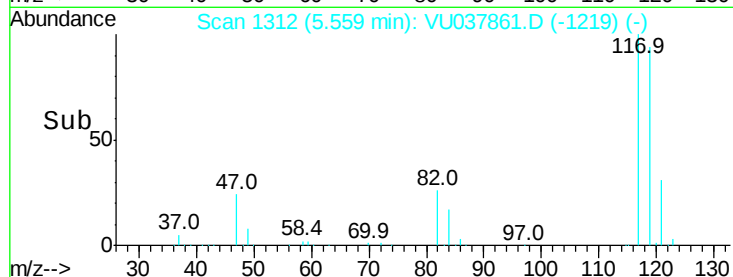
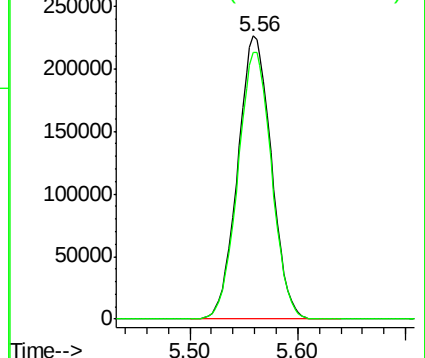
117 100

119 94.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 85.344 ug/L

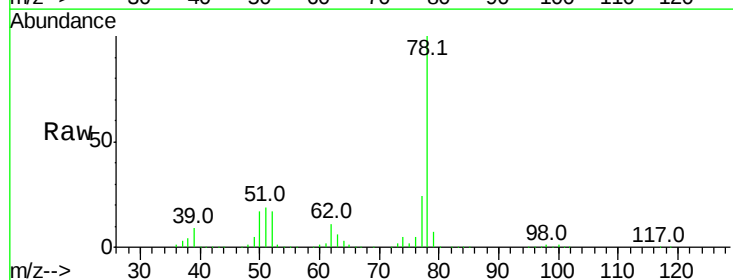
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

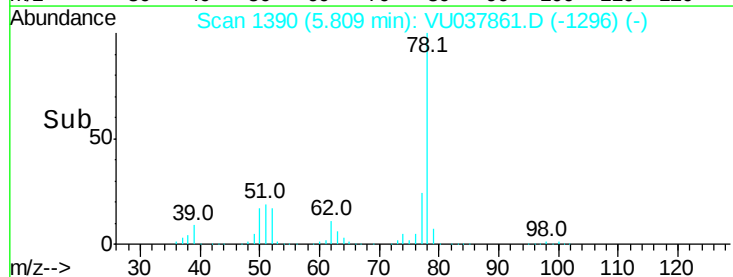
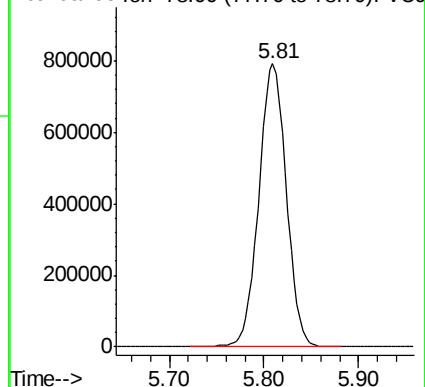
Lab File: VU037861.D

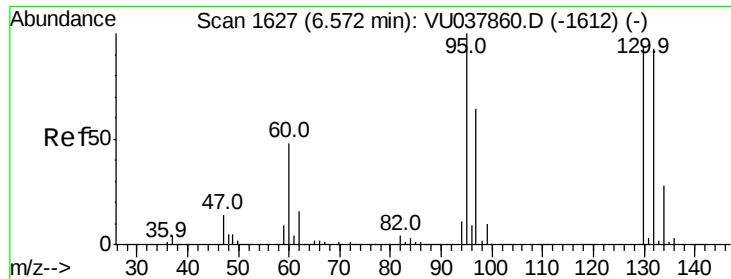
Acq: 23 Apr 2020 14:36

Tgt Ion: 78 Resp: 1597099



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 84.364 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

Tgt Ion: 95 Resp: 389743

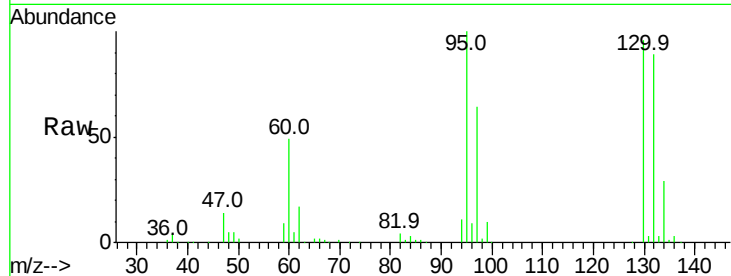
Ion Ratio Lower Upper

95 100

97 63.5 44.4 82.5

132 89.4 65.0 120.6

130 95.6 65.5 121.7

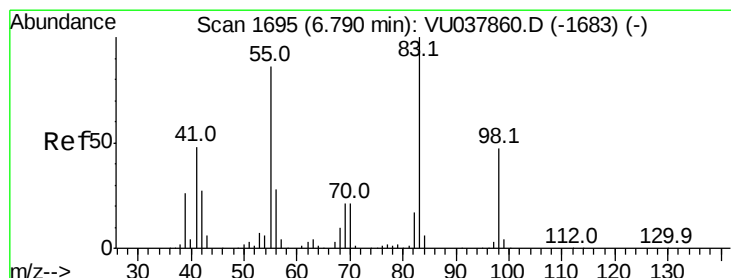
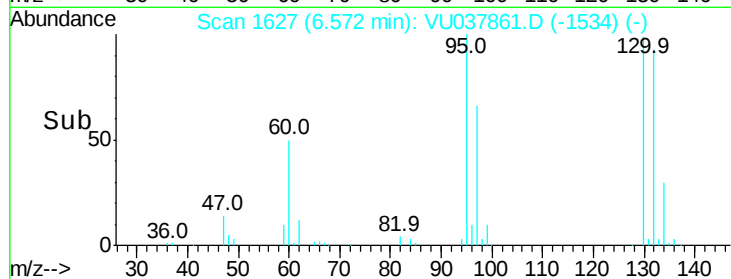
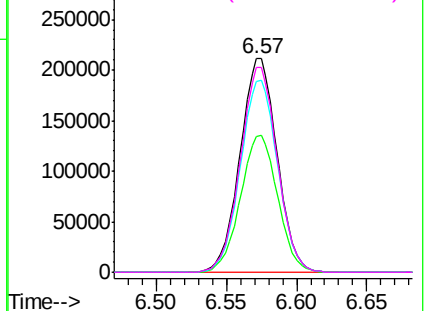


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 87.465 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

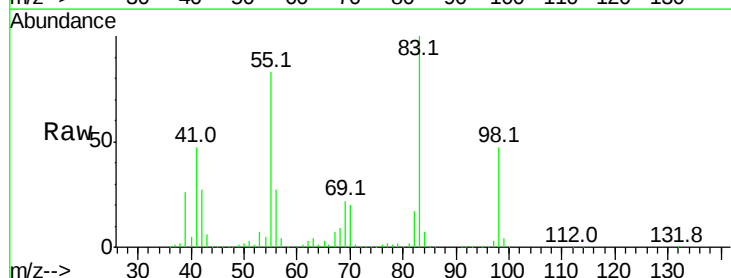
Tgt Ion: 83 Resp: 705462

Ion Ratio Lower Upper

83 100

55 82.1 66.3 99.5

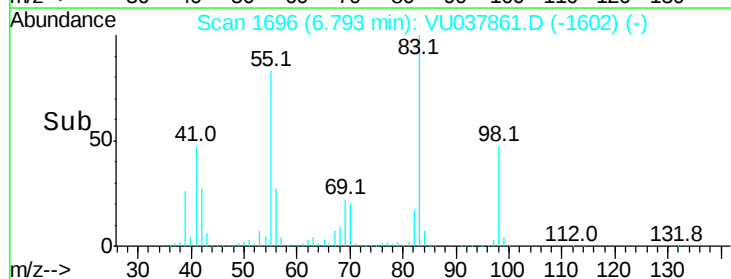
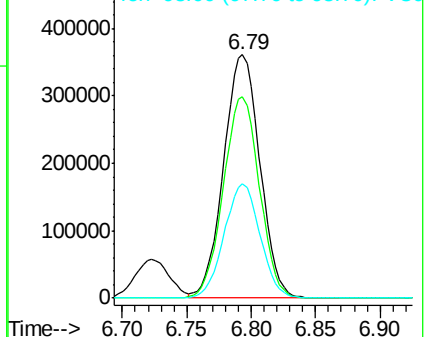
98 46.4 37.4 56.0

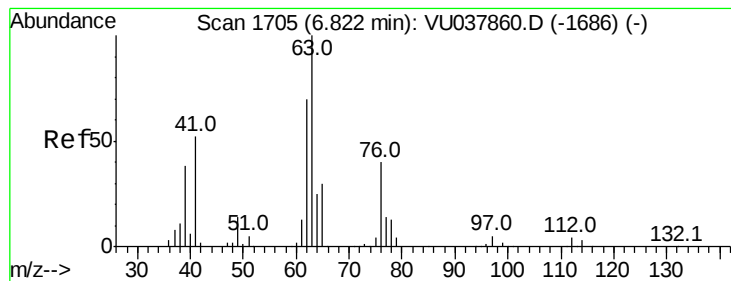


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 83.577 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

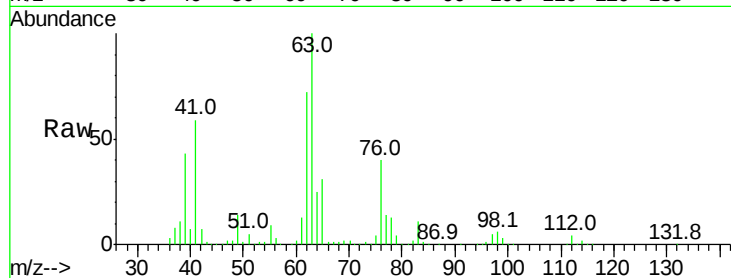
VSTD10036

Tgt Ion: 63 Resp: 441784

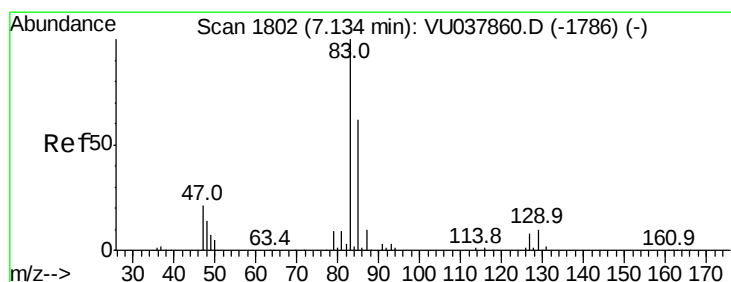
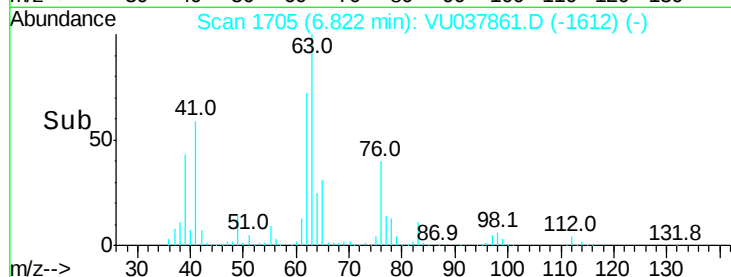
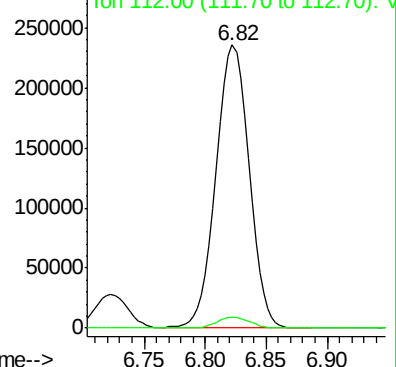
Ion Ratio Lower Upper

63 100

112 3.8 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU037861.D (-1612) (-)



#38

Bromodichloromethane

Concen: 83.955 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

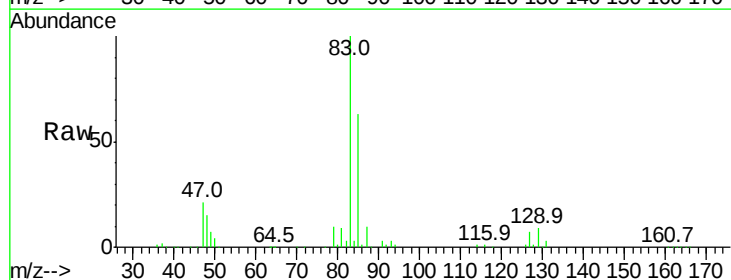
Tgt Ion: 83 Resp: 534062

Ion Ratio Lower Upper

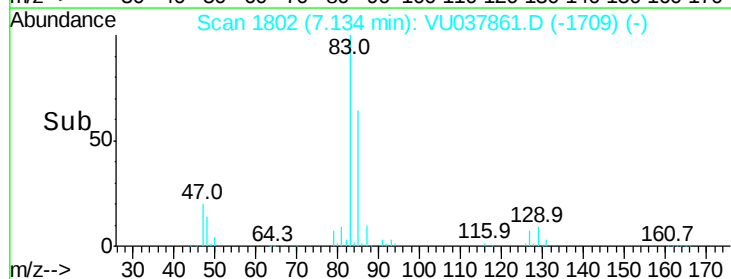
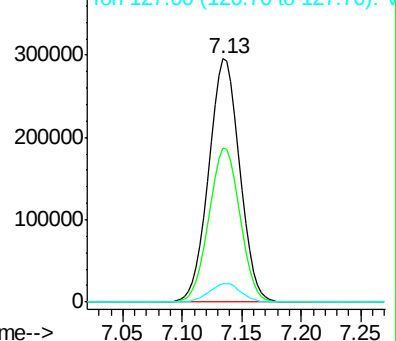
83 100

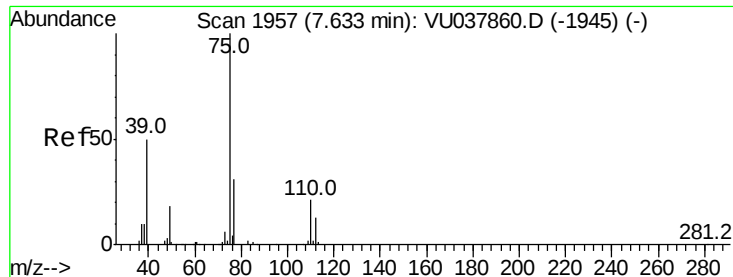
85 63.5 43.3 80.3

127 7.4 6.2 9.2



Abundance Ion 83.00 (82.70 to 83.70): VU037861.D (-1709) (-)

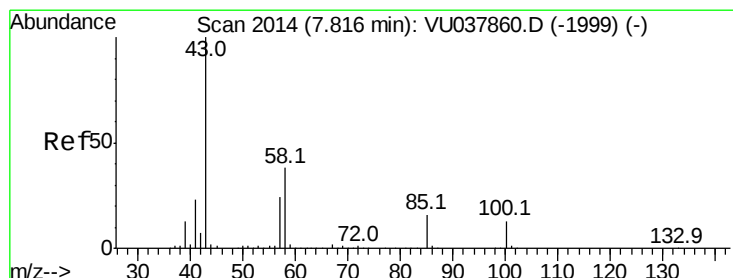
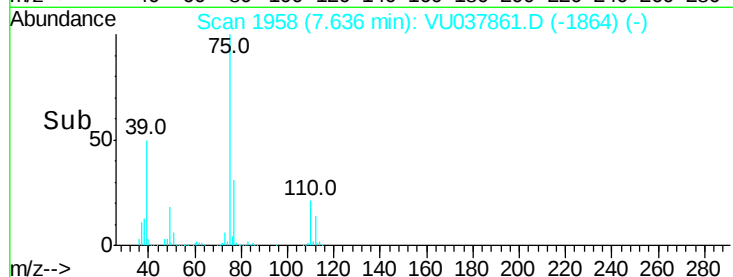
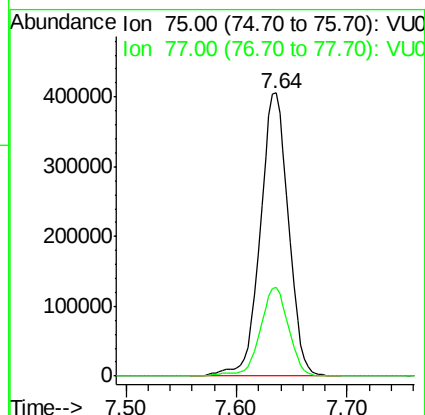
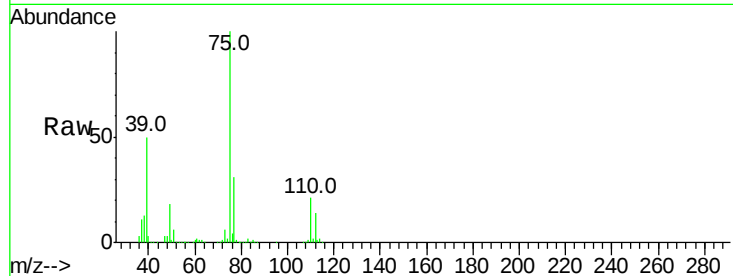




#39
 cis-1,3-Dichloropropene
 Concen: 86.248 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

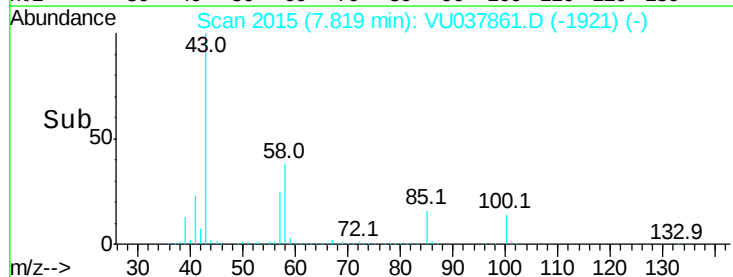
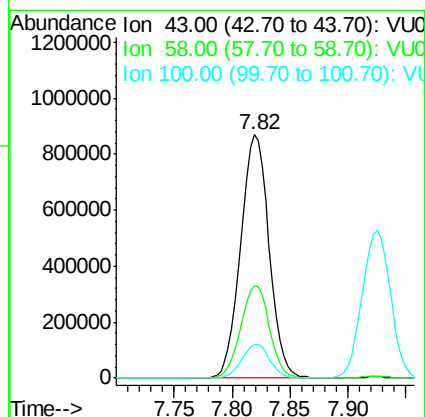
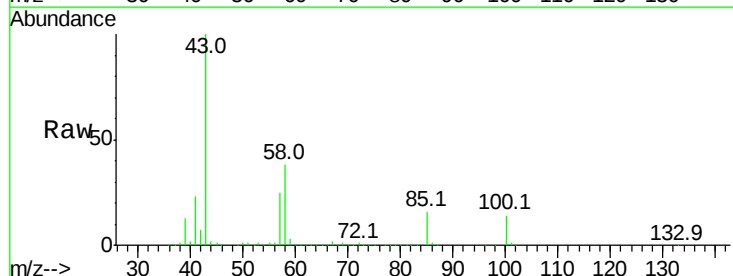
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10036

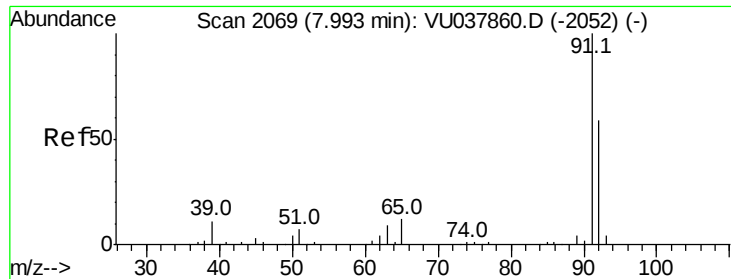
Tgt Ion: 75 Resp: 718102
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 163.984 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

Tgt Ion: 43 Resp: 1478683
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.2 45.2
 100 13.8 10.9 16.3





#42

Toluene

Concen: 84.872 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampled :

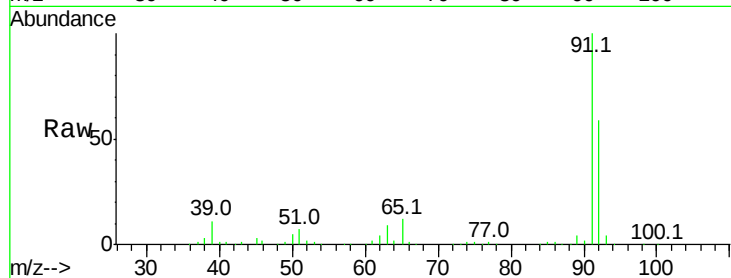
VSTD10036

Tgt Ion: 91 Resp: 1681951

Ion Ratio Lower Upper

91 100

92 59.3 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VU037861.D (-1976) (-)

Ion 92.00 (91.70 to 92.70): VU037861.D (-1976) (-)

8.00

1000000

800000

600000

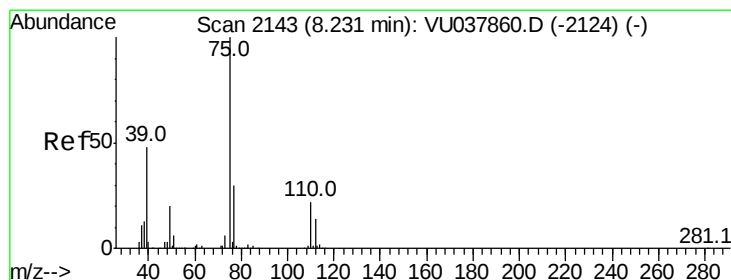
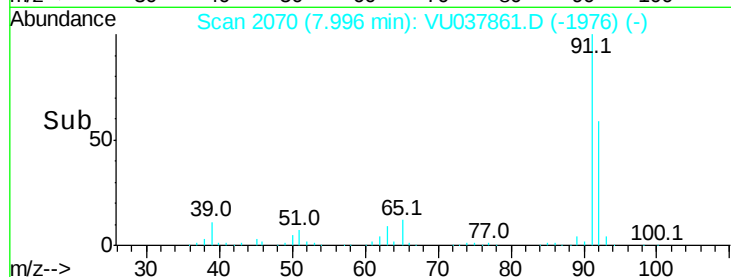
400000

200000

0

Time-->

7.90 8.00 8.10



#44

trans-1,3-Dichloropropene

Concen: 85.278 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037861.D

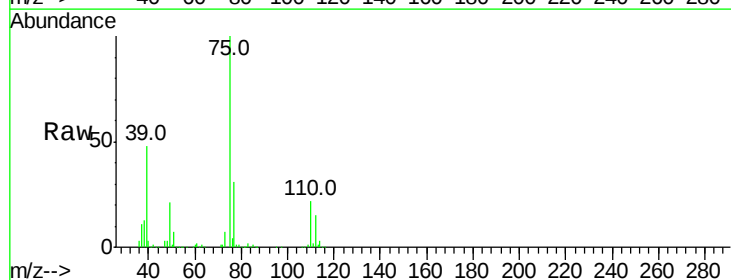
Acq: 23 Apr 2020 14:36

Tgt Ion: 75 Resp: 682445

Ion Ratio Lower Upper

75 100

77 31.3 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU037861.D (-2050) (-)

Ion 77.00 (76.70 to 77.70): VU037861.D (-2050) (-)

8.23

400000

300000

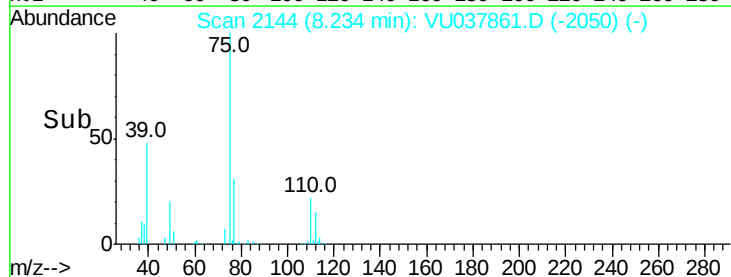
200000

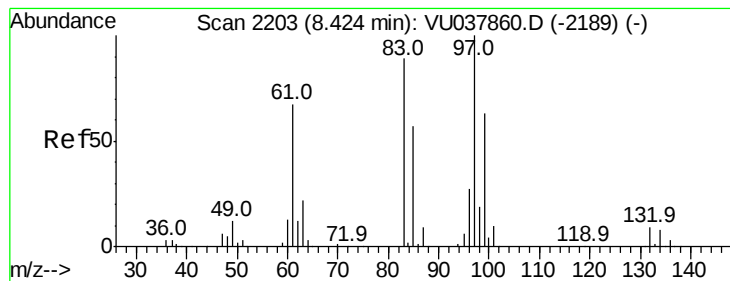
100000

0

Time-->

8.15 8.20 8.25 8.30





#45

1,1,2-Trichloroethane

Concen: 83.155 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

Tgt Ion: 97 Resp: 379809

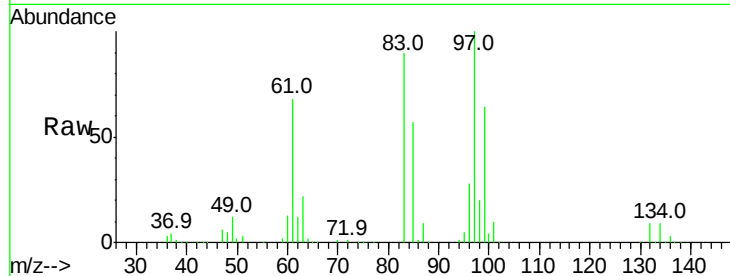
Ion Ratio Lower Upper

97 100

99 64.2 44.0 81.6

83 90.2 62.6 116.2

85 57.5 40.0 74.4

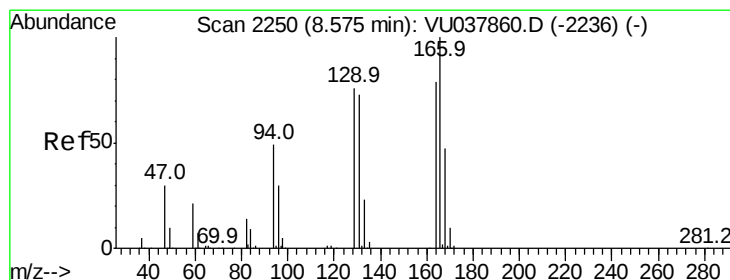
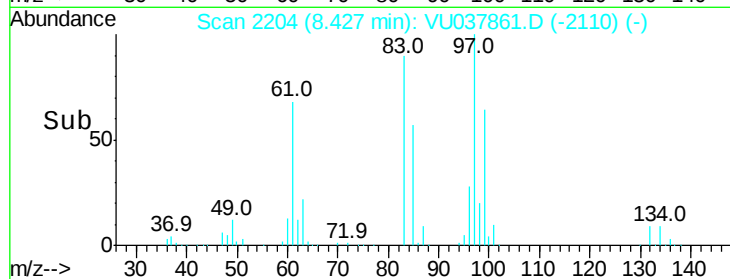
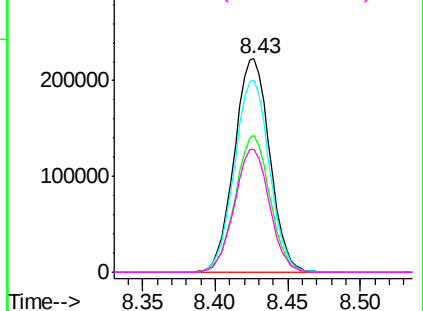


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 87.124 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Tgt Ion: 164 Resp: 289132

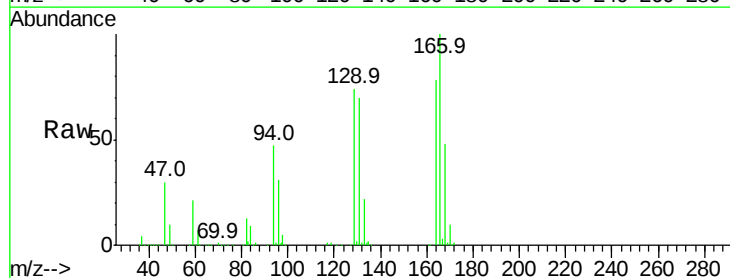
Ion Ratio Lower Upper

164 100

129 95.2 67.3 125.1

131 90.6 64.8 120.4

166 128.9 88.5 164.4

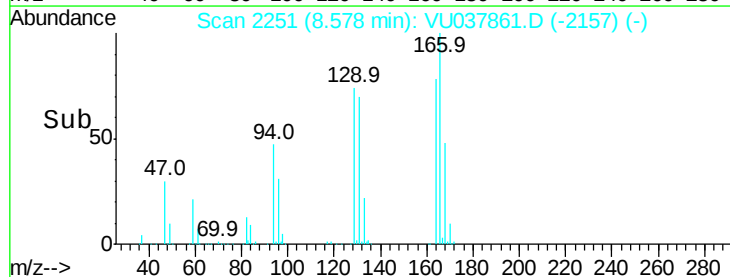
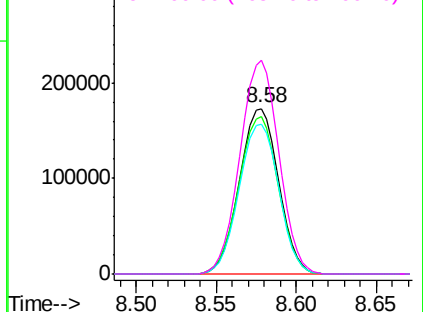


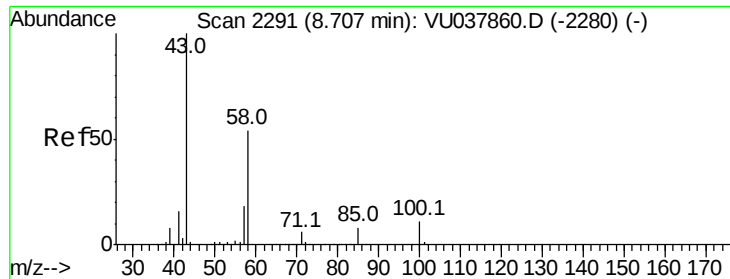
Abundance Ion 164.00 (163.70 to 164.70): V

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

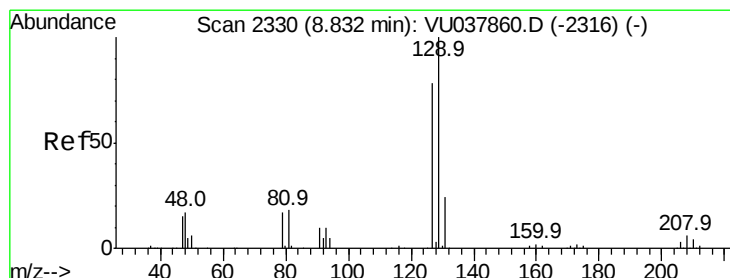
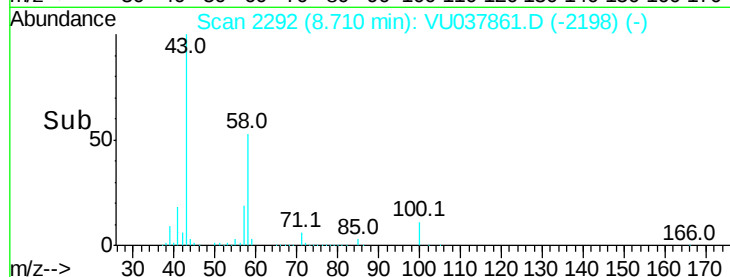
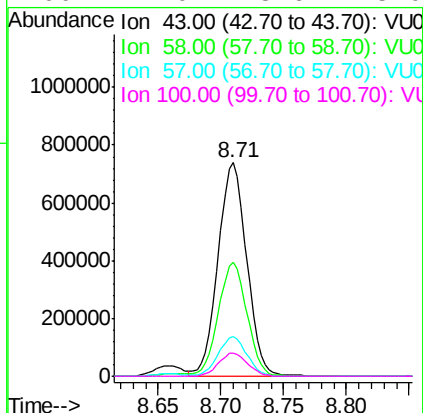
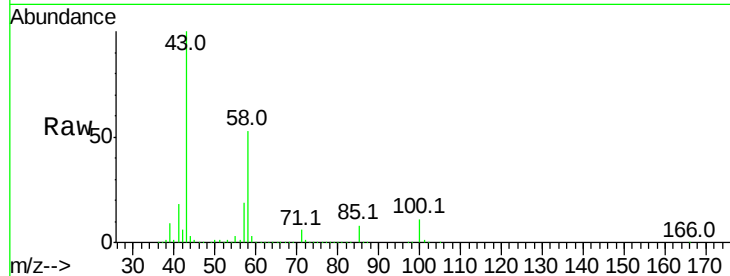




#48
2-Hexanone
Concen: 163.508 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037861.D
Acq: 23 Apr 2020 14:36

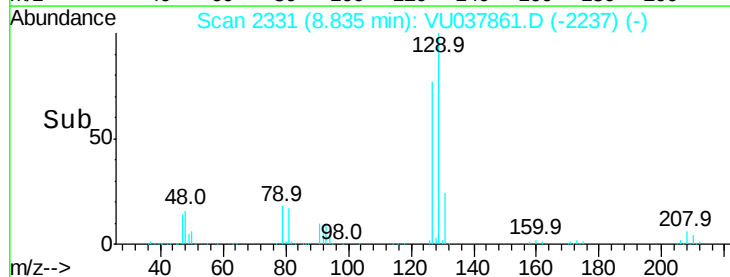
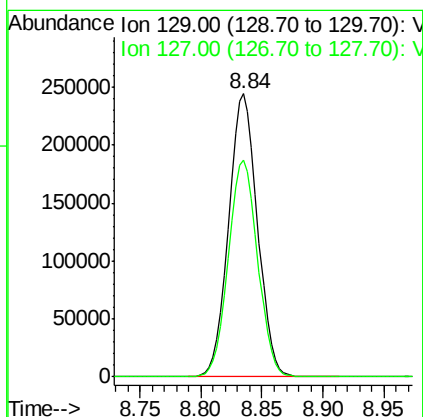
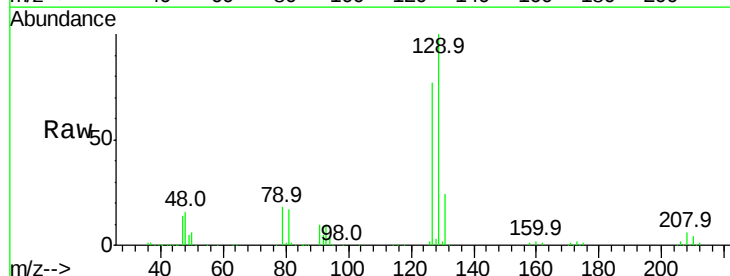
Instrument :
MSVOA_U
ClientSampleId :
VSTD10036

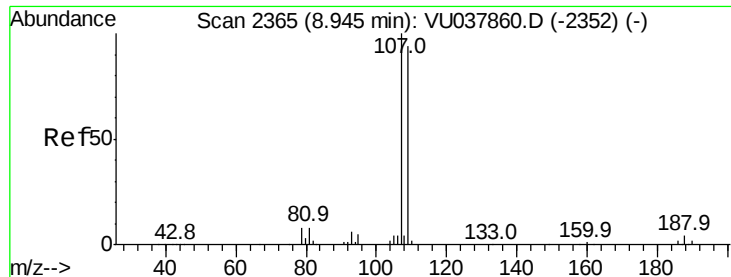
Tgt Ion: 43 Resp: 1169640
Ion Ratio Lower Upper
43 100
58 53.5 42.6 63.8
57 18.7 14.6 22.0
100 11.0 8.6 13.0



#49
Dibromochloromethane
Concen: 84.812 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037861.D
Acq: 23 Apr 2020 14:36

Tgt Ion: 129 Resp: 403290
Ion Ratio Lower Upper
129 100
127 76.7 54.7 101.5

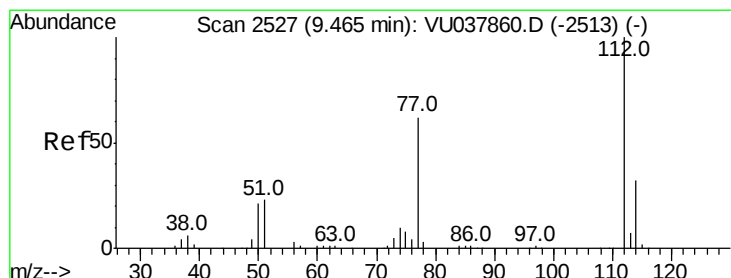
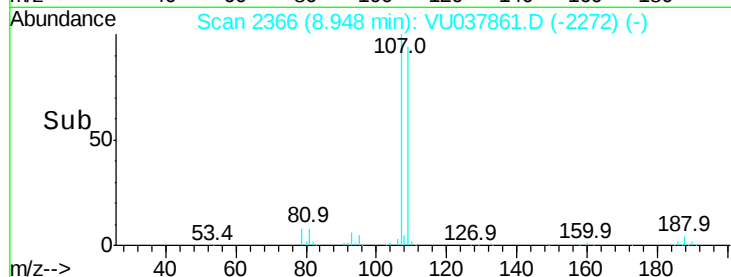
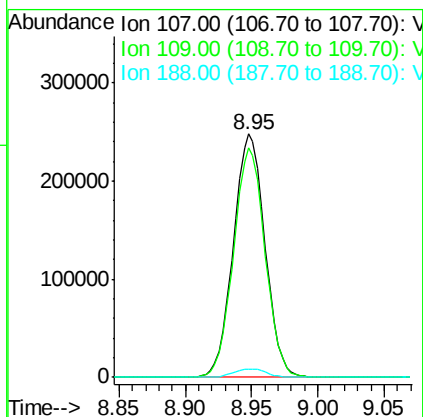
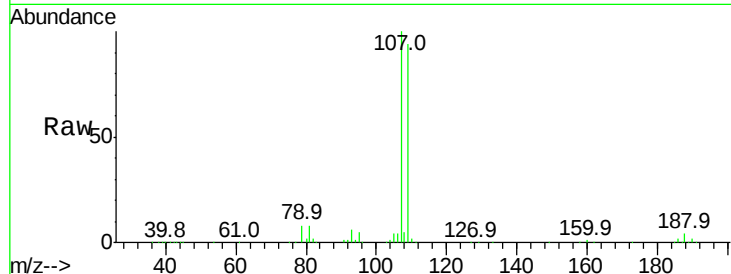




#50
 1,2-Dibromoethane
 Concen: 83.581 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

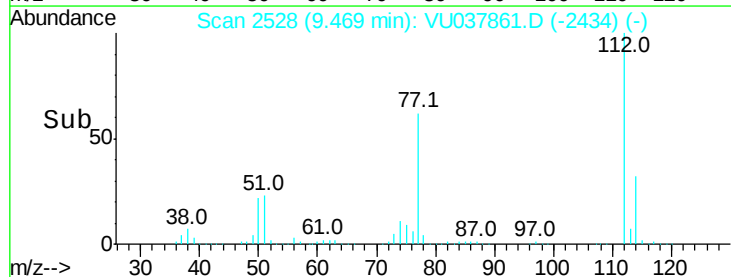
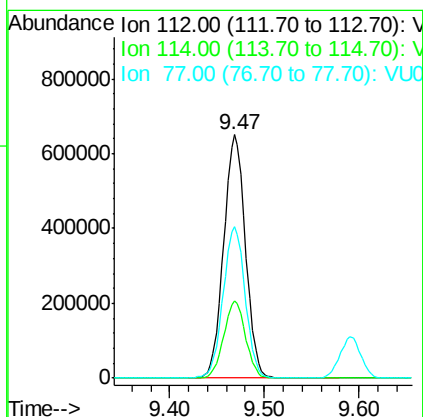
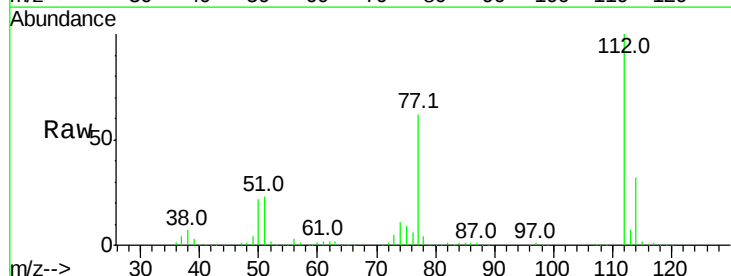
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10036

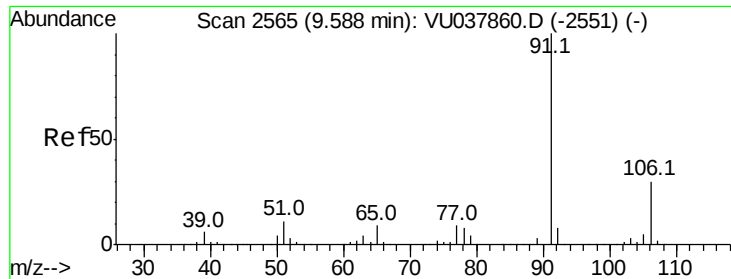
Tgt Ion:107 Resp: 409771
 Ion Ratio Lower Upper
 107 100
 109 94.1 65.7 122.1
 188 3.5 2.9 4.3



#51
 Chlorobenzene
 Concen: 83.990 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

Tgt Ion:112 Resp: 1039437
 Ion Ratio Lower Upper
 112 100
 114 31.8 22.3 41.3
 77 62.4 49.8 74.6





#52

Ethylbenzene

Concen: 85.912 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

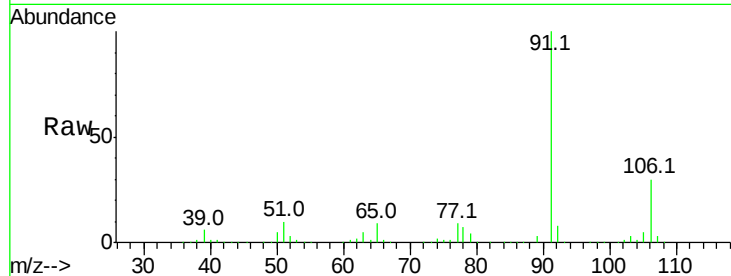
VSTD10036

Tgt Ion: 91 Resp: 1909422

Ion Ratio Lower Upper

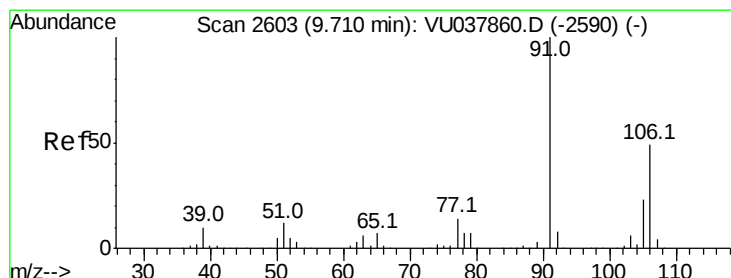
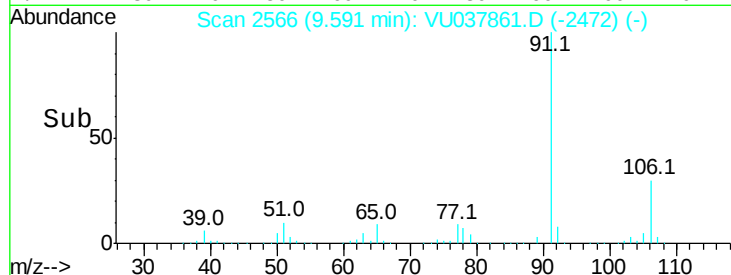
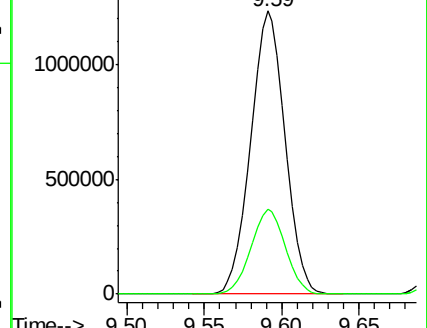
91 100

106 29.9 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU037861.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU037861.D (-2551) (-)



#53

m,p-Xylene

Concen: 85.649 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.01 min

Lab File: VU037861.D

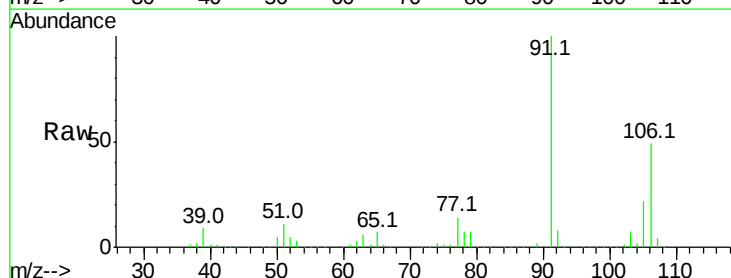
Acq: 23 Apr 2020 14:36

Tgt Ion: 106 Resp: 721878

Ion Ratio Lower Upper

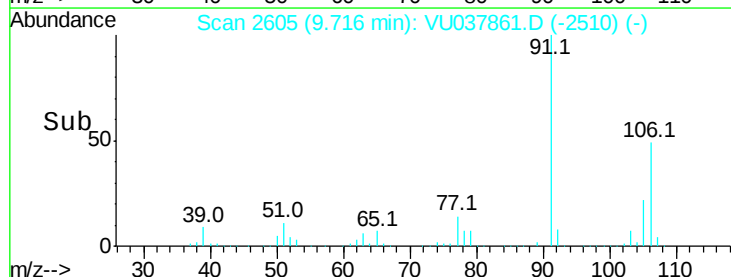
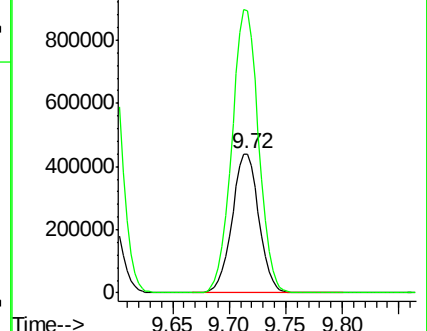
106 100

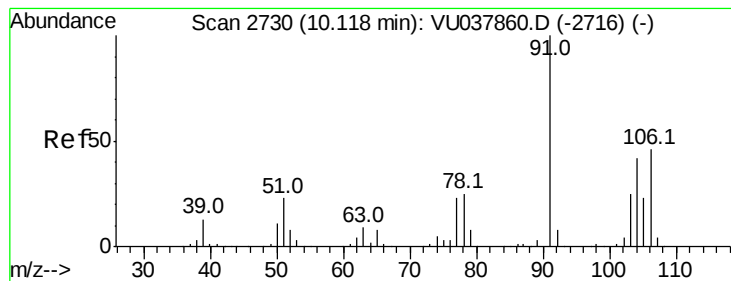
91 202.8 142.8 265.2



Abundance Ion 106.00 (105.70 to 106.70): VU037861.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VU037861.D (-2510) (-)





#54

o-xylene

Concen: 85.851 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

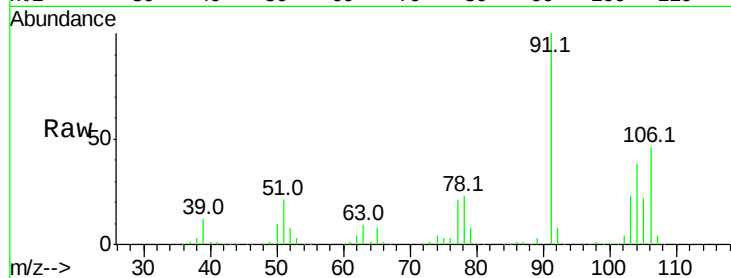
VSTD10036

Tgt Ion:106 Resp: 703133

Ion Ratio Lower Upper

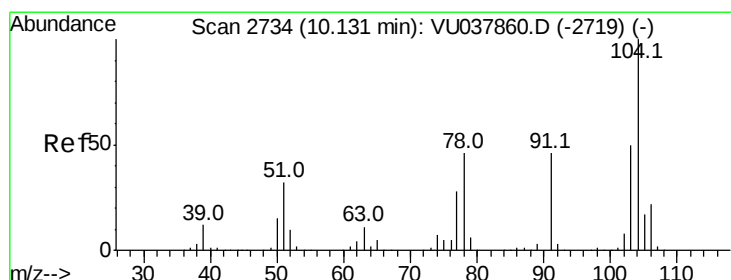
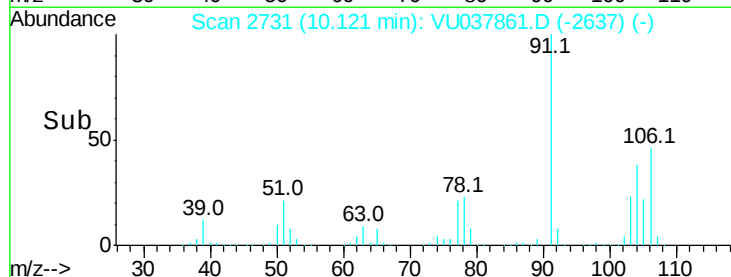
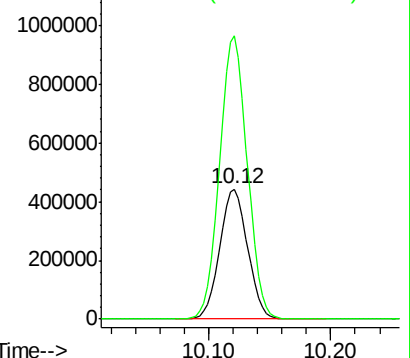
106 100

91 217.6 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 86.350 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037861.D

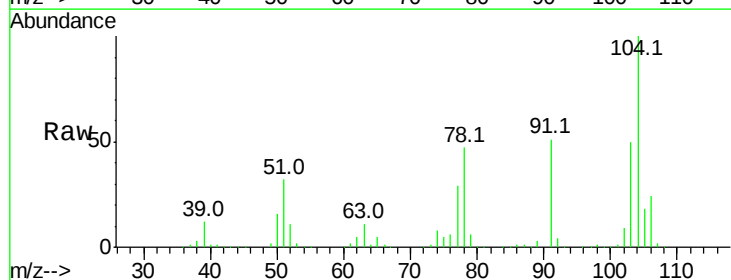
Acq: 23 Apr 2020 14:36

Tgt Ion:104 Resp: 1225699

Ion Ratio Lower Upper

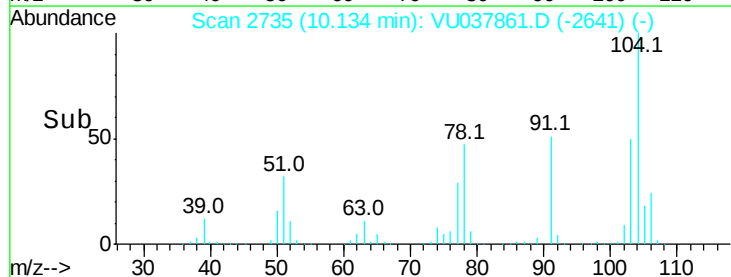
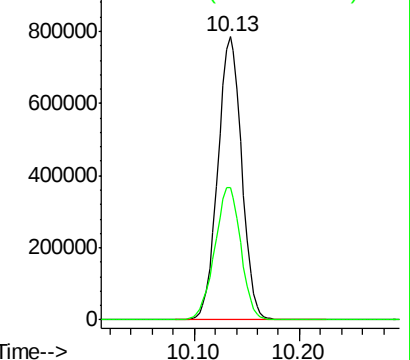
104 100

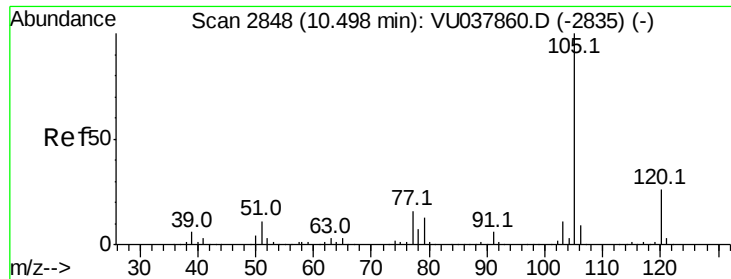
78 46.9 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 85.748 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.01 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

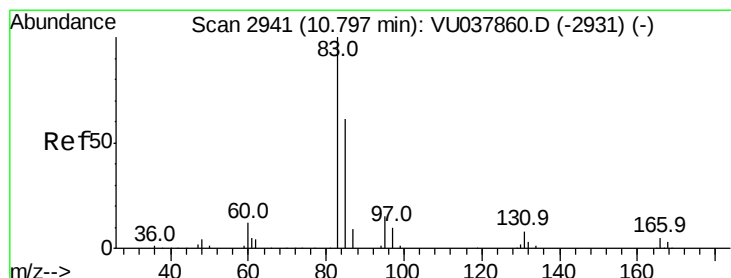
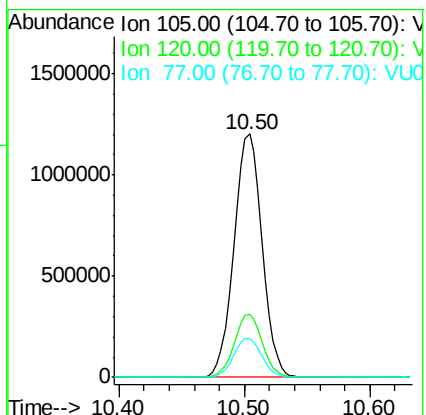
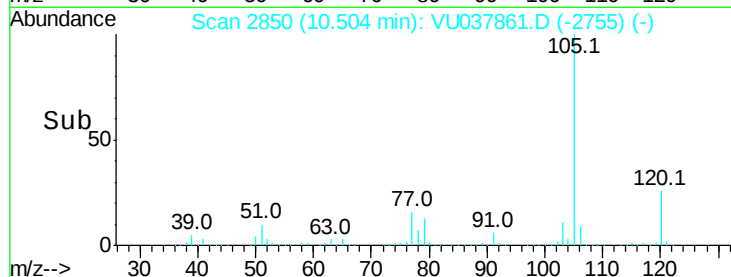
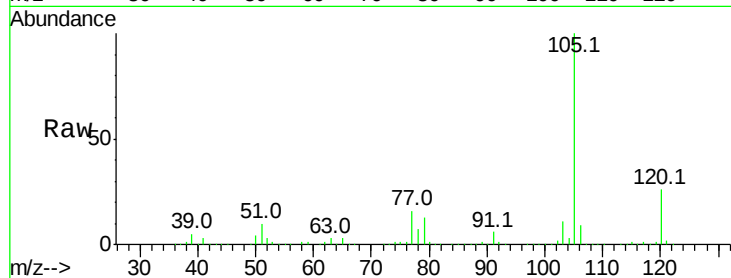
Tgt Ion:105 Resp: 1866051

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

77 16.2 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 84.281 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

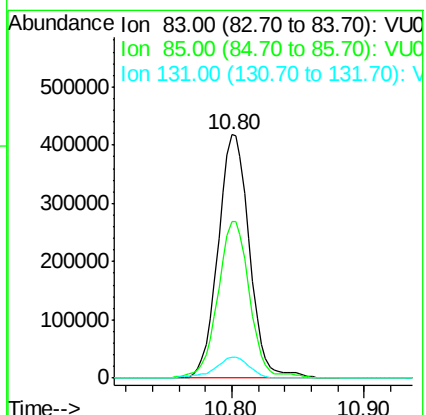
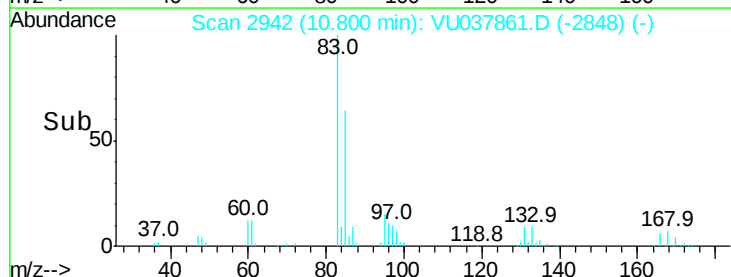
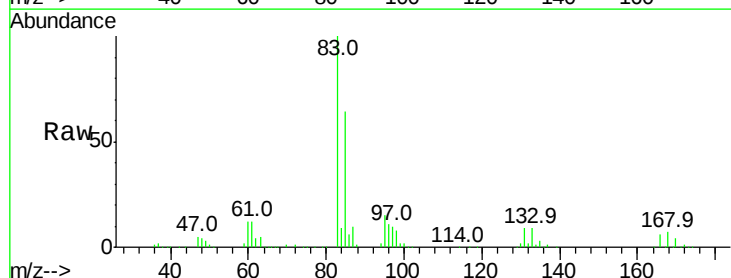
Tgt Ion: 83 Resp: 685916

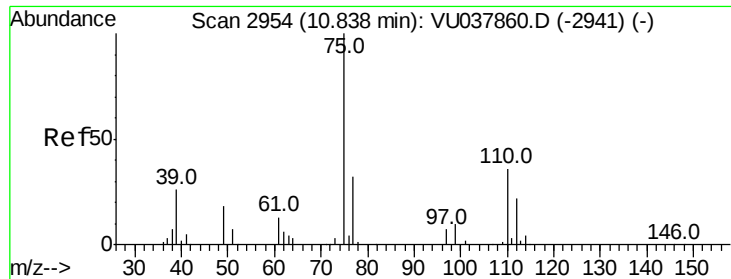
Ion Ratio Lower Upper

83 100

85 64.4 43.8 81.4

131 8.7 7.2 10.8





#59

1,2,3-Trichloropropane

Concen: 81.487 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

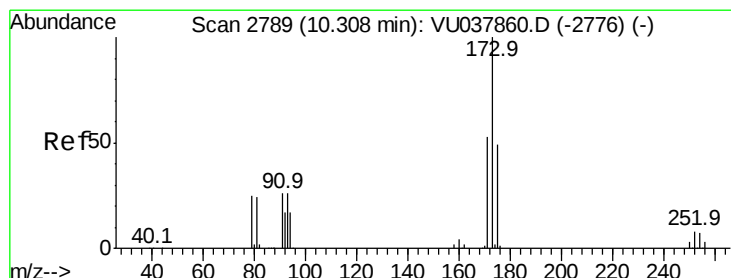
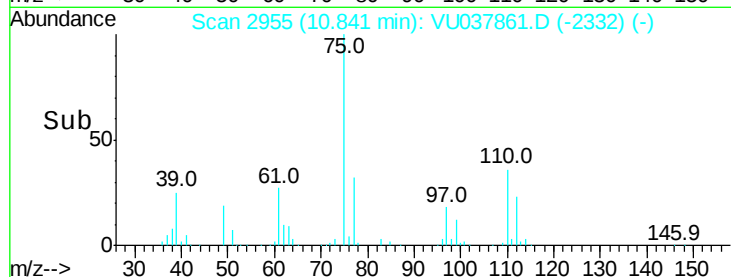
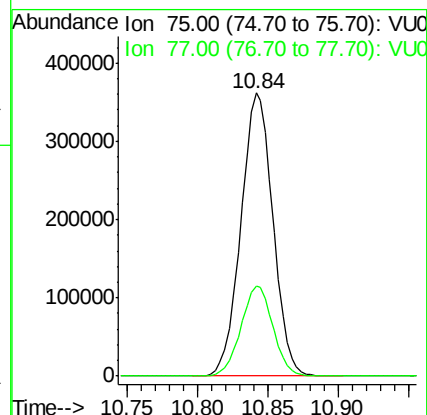
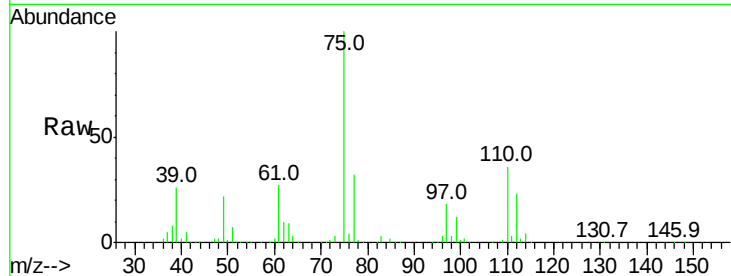
VSTD10036

Tgt Ion: 75 Resp: 574061

Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.6



#61

Bromoform

Concen: 85.229 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

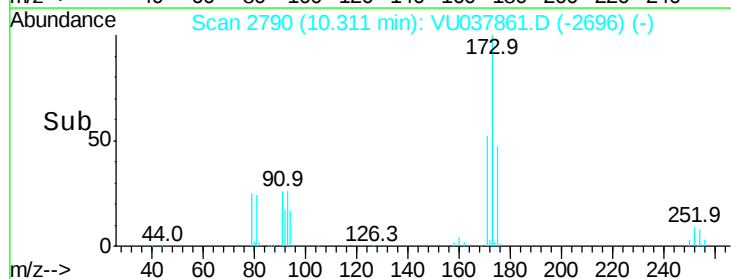
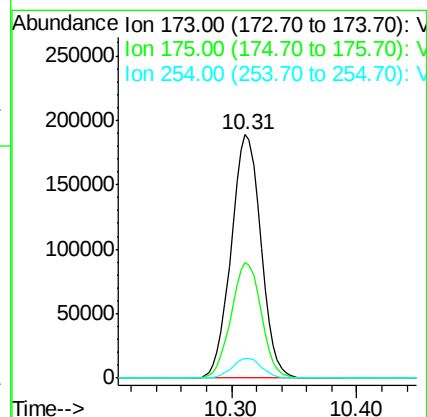
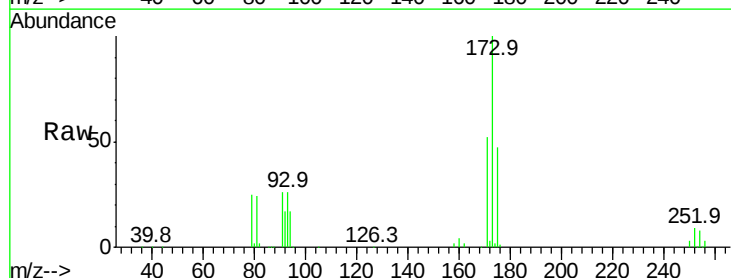
Tgt Ion: 173 Resp: 310987

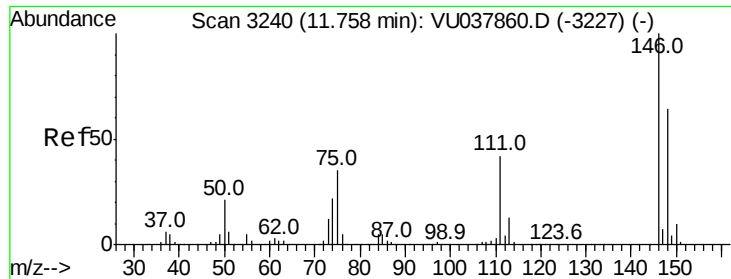
Ion Ratio Lower Upper

173 100

175 47.9 38.8 58.2

254 8.0 5.8 8.8





#62

1,3-Dichlorobenzene

Concen: 84.920 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD10036

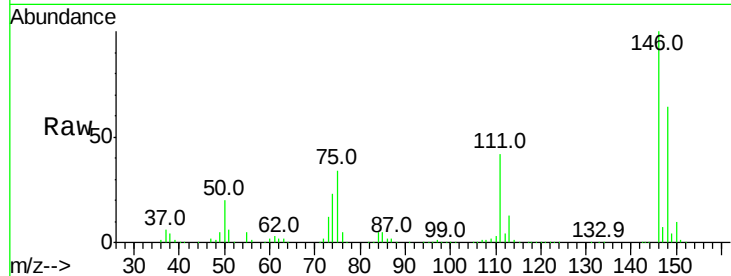
Tgt Ion:146 Resp: 836900

Ion Ratio Lower Upper

146 100

111 41.8 29.0 53.9

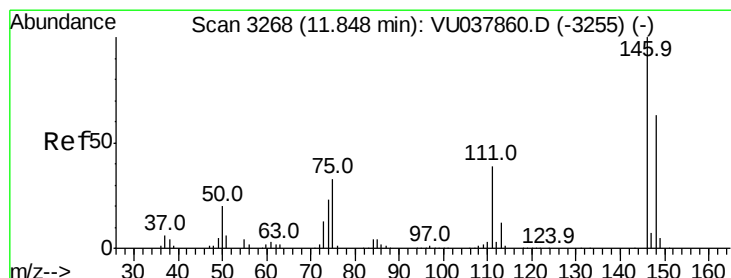
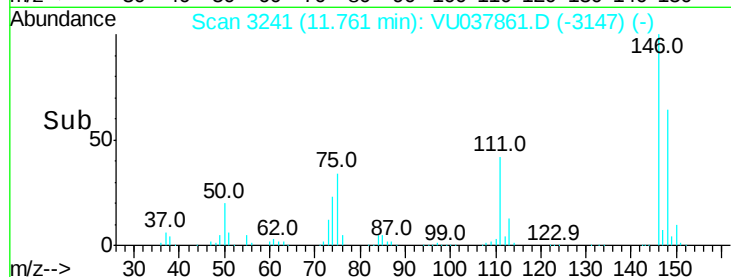
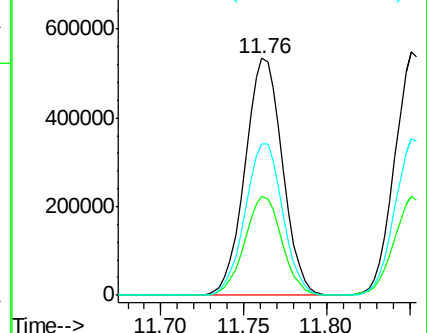
148 64.2 44.5 82.7



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



#63

1,4-Dichlorobenzene

Concen: 84.672 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037861.D

Acq: 23 Apr 2020 14:36

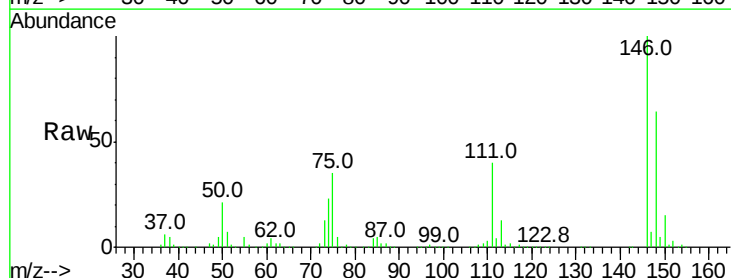
Tgt Ion:146 Resp: 842534

Ion Ratio Lower Upper

146 100

111 40.4 27.2 50.4

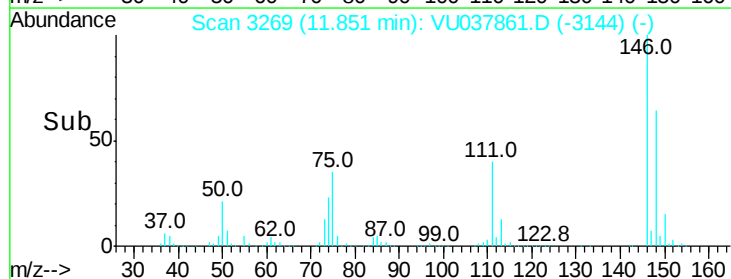
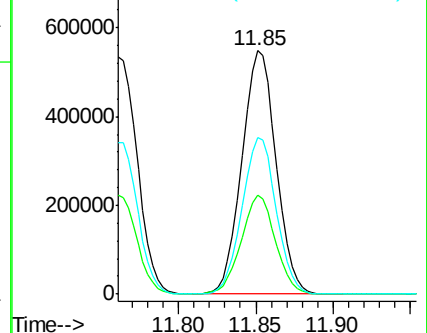
148 64.2 43.9 81.5

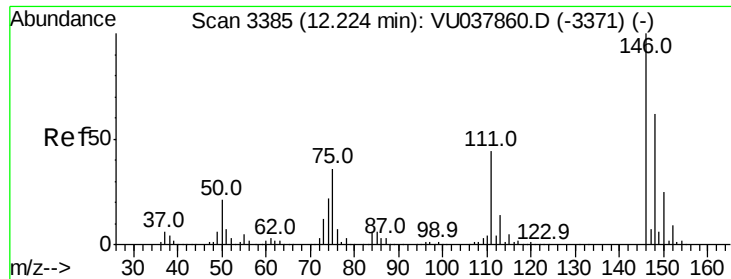


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

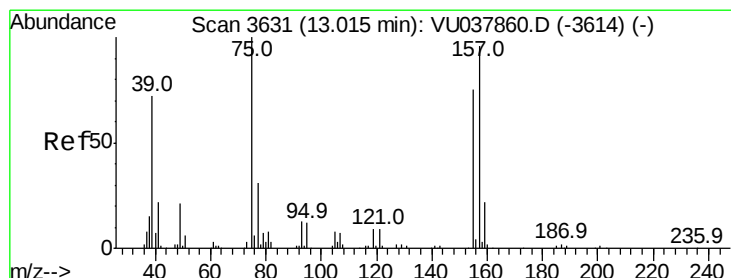
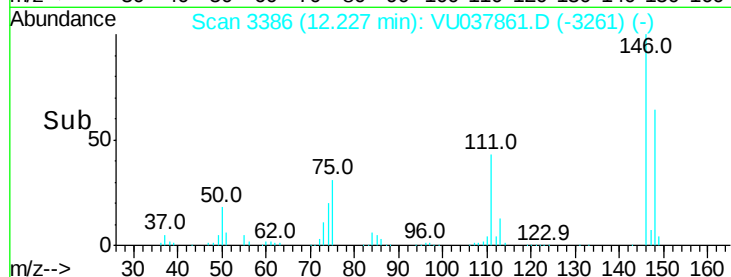
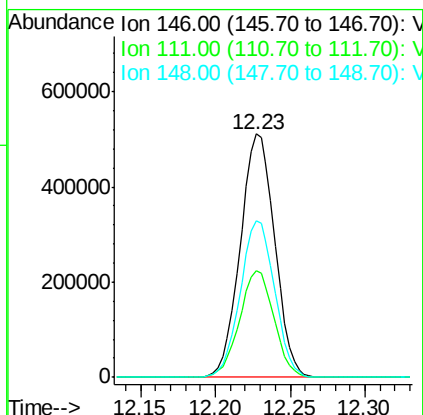
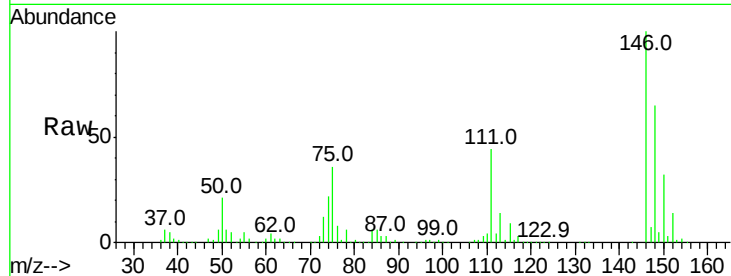




#65
 1,2-Dichlorobenzene
 Concen: 84.156 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

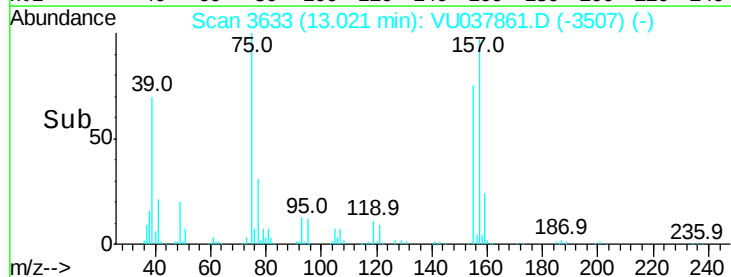
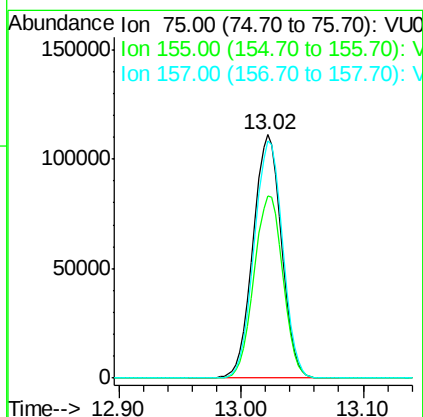
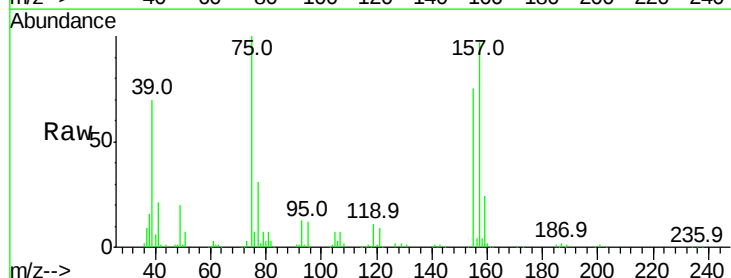
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10036

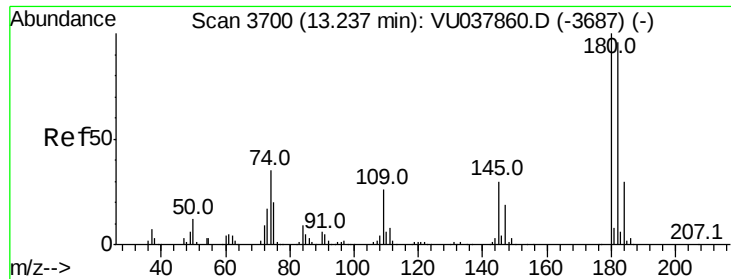
Tgt Ion:146 Resp: 818188
 Ion Ratio Lower Upper
 146 100
 111 43.8 35.4 53.2
 148 64.5 49.8 74.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 83.729 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.01 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

Tgt Ion: 75 Resp: 177910
 Ion Ratio Lower Upper
 75 100
 155 74.9 59.6 89.4
 157 97.4 77.2 115.8

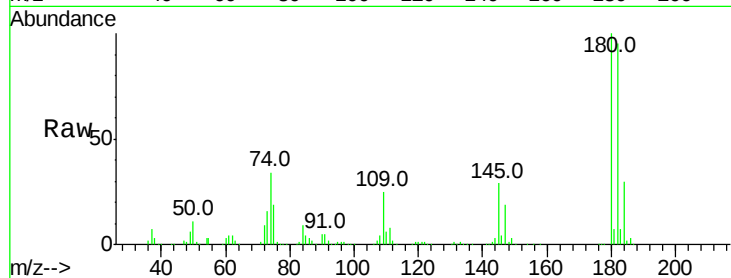




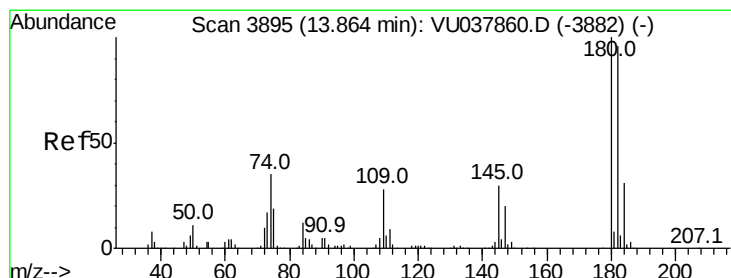
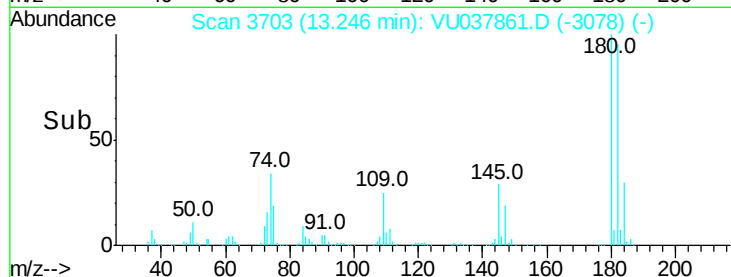
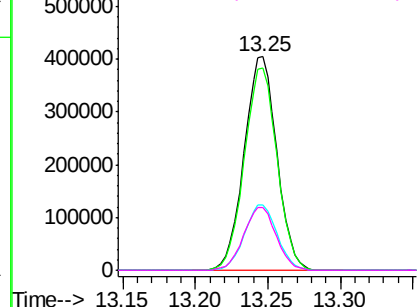
#67
 1,3,5-Trichlorobenzene
 Concen: 88.336 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.01 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10036

Tgt Ion:180 Resp: 631986
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.5 114.7
 184 30.6 24.2 36.4
 145 29.4 24.2 36.4

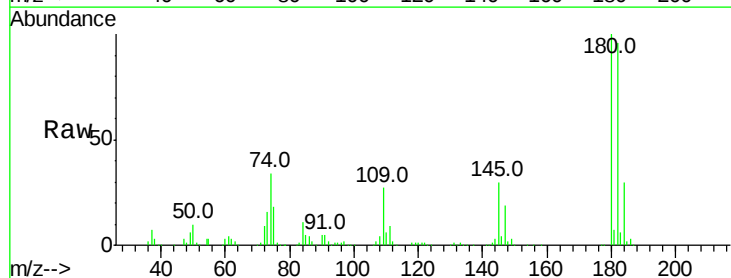


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 90.049 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.01 min
 Lab File: VU037861.D
 Acq: 23 Apr 2020 14:36

Tgt Ion:180 Resp: 612842
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.9 115.3
 145 30.4 23.8 35.8



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

