

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
 Data File : VU037563.D
 Acq On : 03 Apr 2020 11:40
 Operator : JC/MD
 Sample : VSTD20034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

Quant Time: Apr 04 02:54:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 04 02:49:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	183671	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	175744	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	87325	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	276407	185.30	ug/L	0.00
7) Chloroethane-d5	1.92	69	214873	179.28	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.59	63	469802	187.36	ug/L	0.00
21) 2-Butanone-d5	4.66	46	427638	381.43	ug/L	0.00
24) Chloroform-d	5.10	84	475434	189.18	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	303885	182.11	ug/L	0.00
32) Benzene-d6	5.76	84	930978	182.82	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	314193	183.30	ug/L	0.00
41) Toluene-d8	7.92	98	865797	182.44	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	172049	184.87	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	344537	379.37	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	472474	192.81	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	320791	180.02	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	212717	179.144	ug/L	100
3) Chloromethane	1.53	50	230275	182.825	ug/L	99
5) Vinyl chloride	1.62	62	227795	182.131	ug/L	98
6) Bromomethane	1.85	94	119351	193.484	ug/L	98
8) Chloroethane	1.94	64	131958	178.888	ug/L	100
9) Trichlorofluoromethane	2.15	101	323800	182.478	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	184286	182.079	ug/L	98
12) 1,1-Dichloroethene	2.60	96	178348	181.526	ug/L	81
13) Acetone	2.66	43	214972	331.713	ug/L	99
14) Carbon disulfide	2.82	76	513088	180.792	ug/L	99
15) Methyl Acetate	2.98	43	267558	182.191	ug/L	99
16) Methylene chloride	3.08	84	214688	180.149	ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	187279	177.019	ug/L	96
18) Methyl tert-butyl Ether	3.40	73	669272	180.468	ug/L	99
19) 1,1-Dichloroethane	3.91	63	376800	181.782	ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	220073	180.636	ug/L	99
22) 2-Butanone	4.75	43	381183	360.367	ug/L	99
23) Bromochloromethane	5.01	128	106687	182.444	ug/L	96
25) Chloroform	5.13	83	382329	176.910	ug/L	96
27) 1,2-Dichloroethane	5.83	62	307945	184.631	ug/L	99
29) Cyclohexane	5.42	56	334355	181.537	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	336512	180.637	ug/L	99
31) Carbon tetrachloride	5.56	117	278745	181.800	ug/L	98
33) Benzene	5.81	78	821587	178.418	ug/L	100
34) Trichloroethene	6.57	95	213633	177.424	ug/L	98
35) Methylcyclohexane	6.79	83	327244	175.899	ug/L	97
37) 1,2-Dichloropropane	6.82	63	231718	176.609	ug/L	99
38) Bromodichloromethane	7.13	83	309788	181.539	ug/L	100
39) cis-1,3-Dichloropropene	7.63	75	371554	181.310	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	791038	371.540	ug/L	99

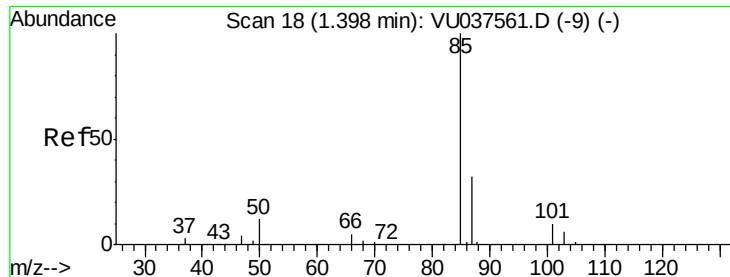
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
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 Quant Title : VOC Analysis
 QLast Update : Sat Apr 04 02:49:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	892965	179.197	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	379424	188.012	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	219046	182.858	ug/L	97
46) Tetrachloroethene	8.57	164	142247	175.948	ug/L	97
48) 2-Hexanone	8.71	43	618924	373.813	ug/L	98
49) Dibromochloromethane	8.83	129	246550	184.527	ug/L	99
50) 1,2-Dibromoethane	8.95	107	240535	182.581	ug/L	99
51) Chlorobenzene	9.47	112	562490	181.986	ug/L	98
52) Ethylbenzene	9.59	91	1022765	181.492	ug/L	100
53) m,p-Xylene	9.71	106	372573	177.247	ug/L	96
54) o-xylene	10.12	106	371398	183.320	ug/L	94
55) Styrene	10.13	104	668523	186.357	ug/L	97
56) Isopropylbenzene	10.50	105	1008066	183.518	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	409259	189.514	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	321179	190.421	ug/L	100
61) Bromoform	10.31	173	193671	194.007	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	450560	178.690	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	451430	177.388	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	441569	176.865	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	111307	185.865	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	309915	177.078	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	304831	182.704	ug/L	97
69) Naphthalene	14.11	128	1175174	166.255	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	301998	179.174	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 179.144 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

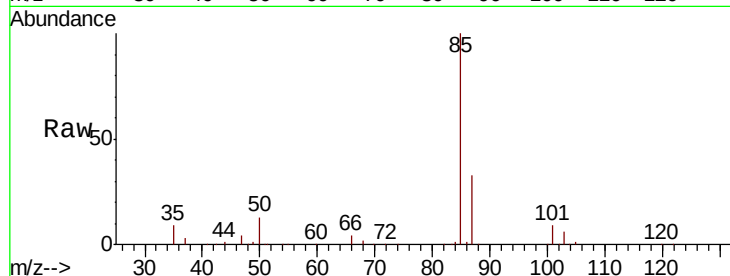
VSTD20034

Tot Ion: 85 Resp: 212717

Ion Ratio Lower Upper

85 100

87 32.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037563.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037563.D (-1) (-)

1.39

200000

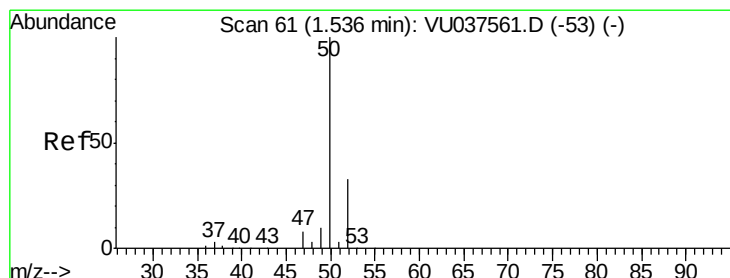
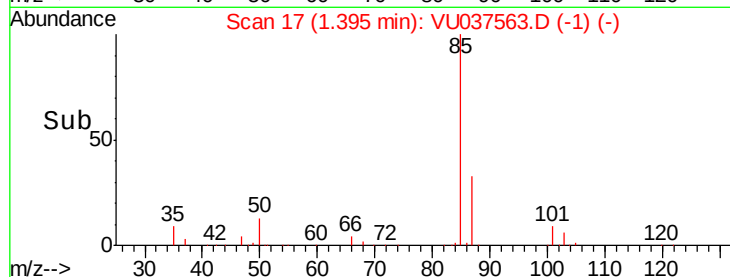
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 182.825 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037563.D

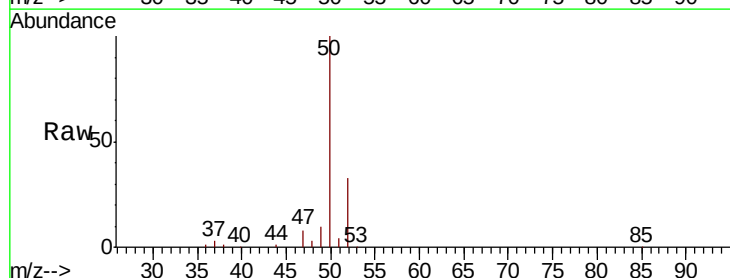
Acq: 03 Apr 2020 11:40

Tgt Ion: 50 Resp: 230275

Ion Ratio Lower Upper

50 100

52 32.6 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037563.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037563.D (-1) (-)

1.53

200000

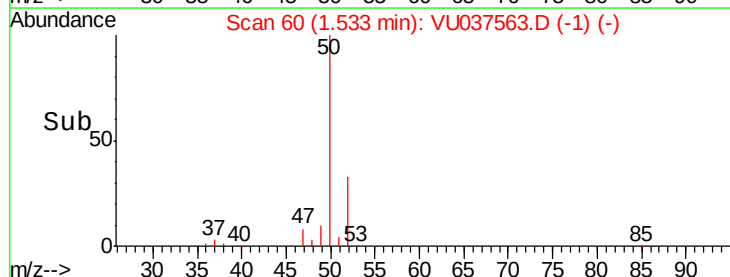
150000

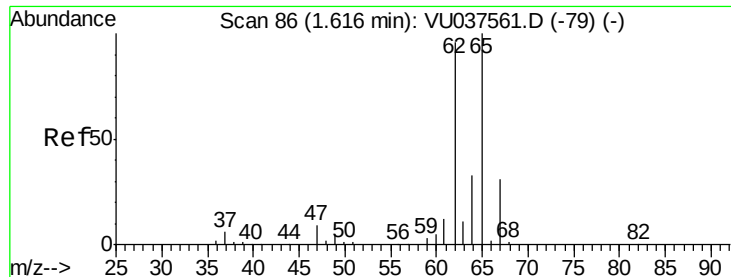
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 182.131 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

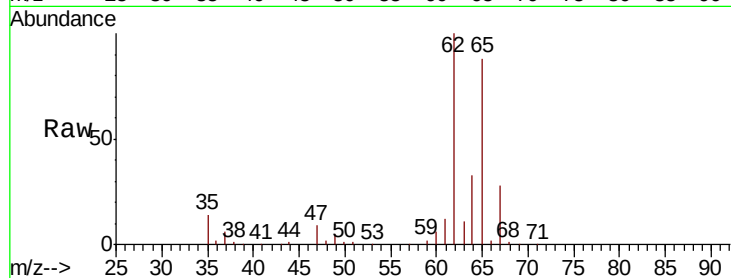
VSTD20034

Tot Ion: 62 Resp: 227795

Ion Ratio Lower Upper

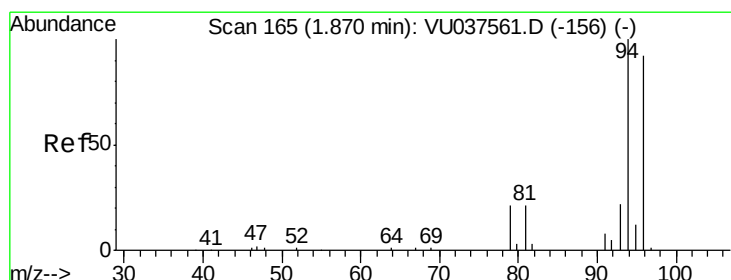
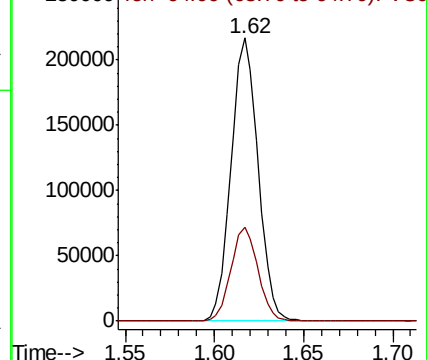
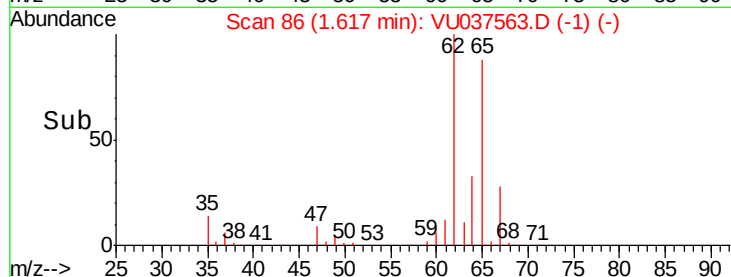
62 100

64 33.1 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU037563.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037563.D (-1) (-)



#6

Bromomethane

Concen: 193.484 ug/L

RT: 1.85 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU037563.D

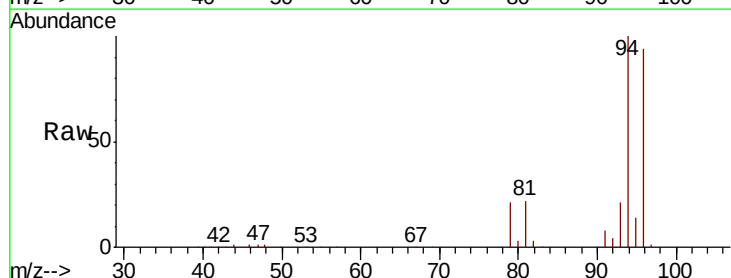
Acq: 03 Apr 2020 11:40

Tgt Ion: 94 Resp: 119351

Ion Ratio Lower Upper

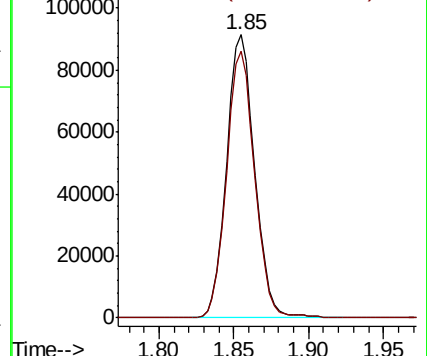
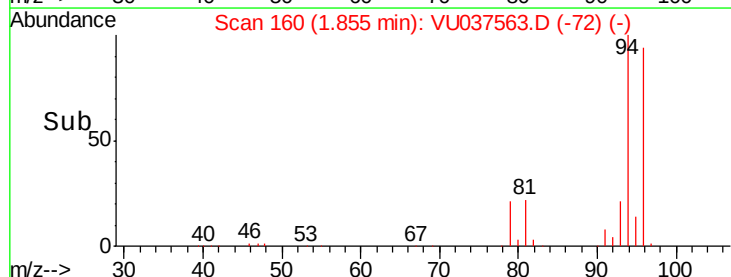
94 100

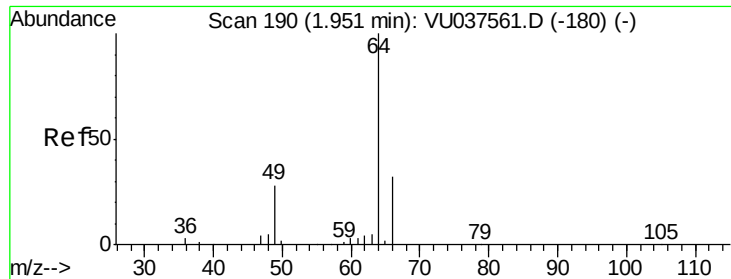
96 94.2 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037563.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU037563.D (-72) (-)





#8

Chloroethane

Concen: 178.888 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.01 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

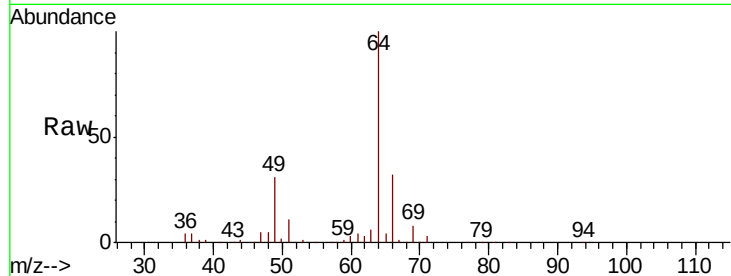
VSTD20034

Tot Ion: 64 Resp: 131958

Ion Ratio Lower Upper

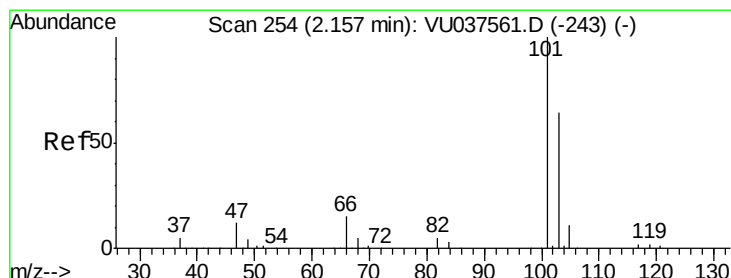
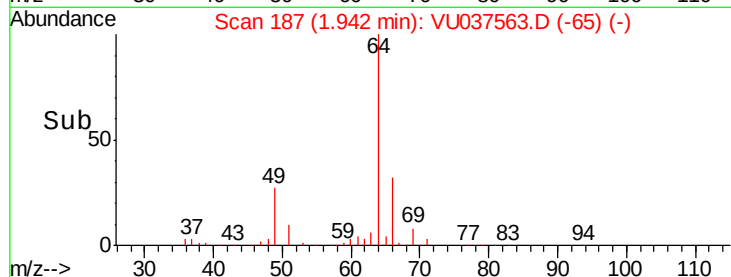
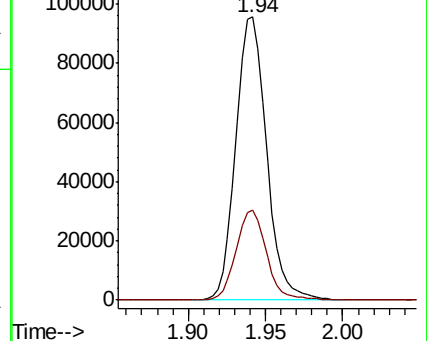
64 100

66 31.8 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037561.D

Ion 66.00 (65.70 to 66.70): VU037561.D



#9

Trichlorofluoromethane

Concen: 182.478 ug/L

RT: 2.15 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU037563.D

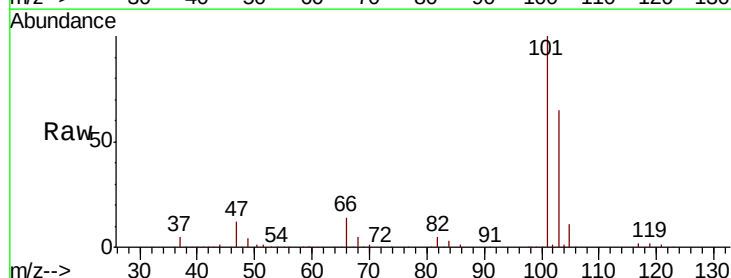
Acq: 03 Apr 2020 11:40

Tgt Ion:101 Resp: 323800

Ion Ratio Lower Upper

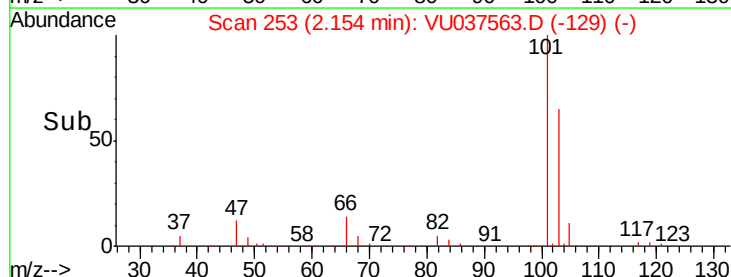
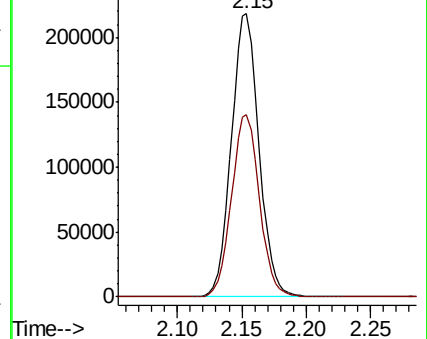
101 100

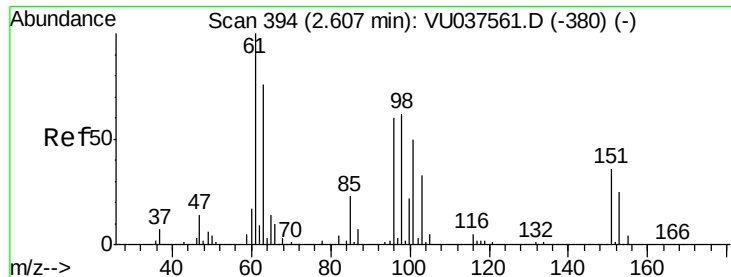
103 65.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU037561.D

Ion 103.00 (102.70 to 103.70): VU037561.D





#10

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

Concen: 182.079 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

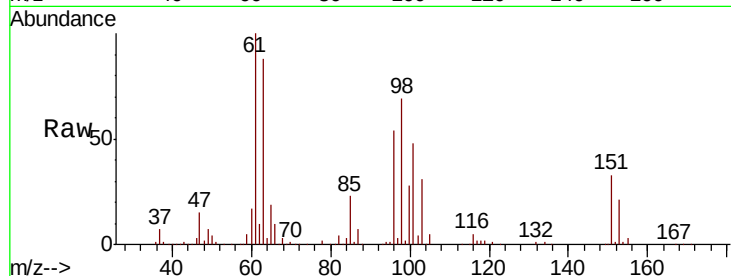
Tot Ion:101 Resp: 184286

Ion Ratio Lower Upper

101 100

85 46.0 35.4 53.2

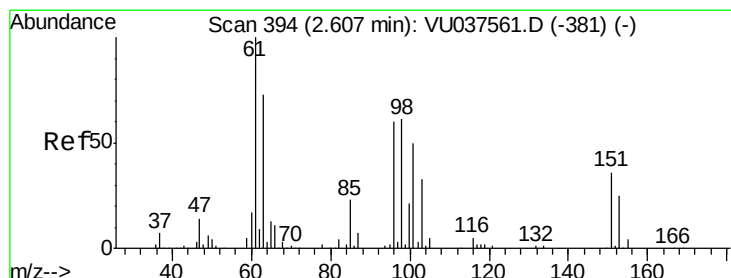
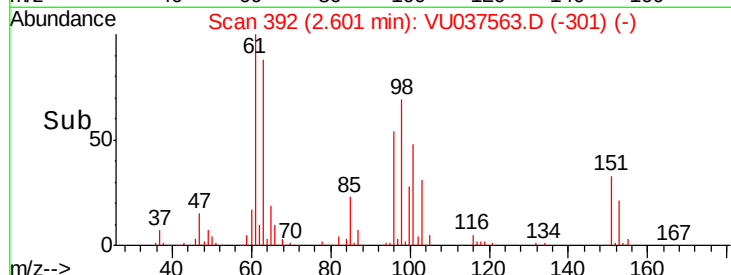
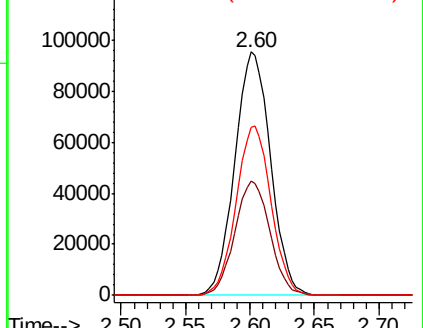
151 68.0 55.3 82.9



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: 181.526 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

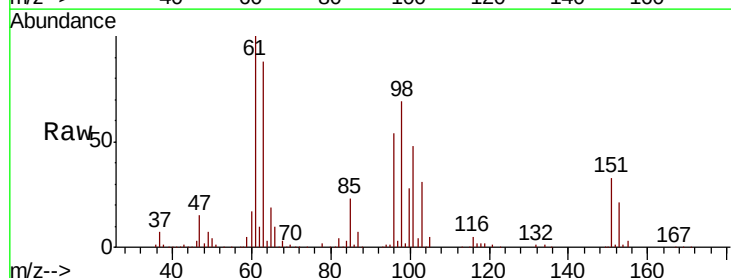
Tgt Ion: 96 Resp: 178348

Ion Ratio Lower Upper

96 100

61 184.4 117.2 217.8

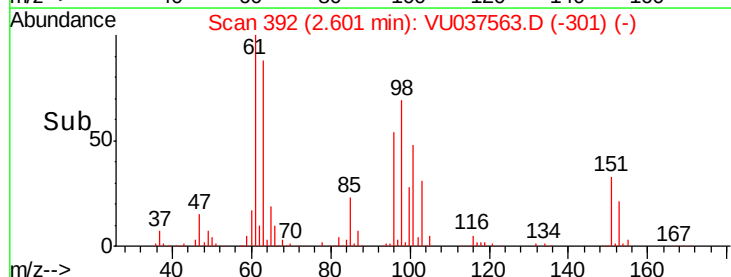
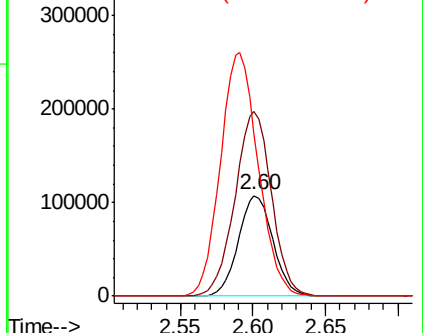
63 162.3 90.9 168.9

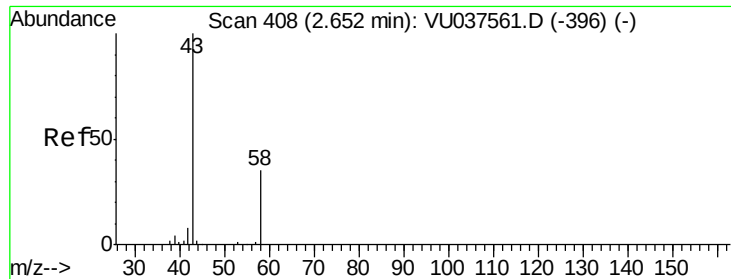


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 331.713 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

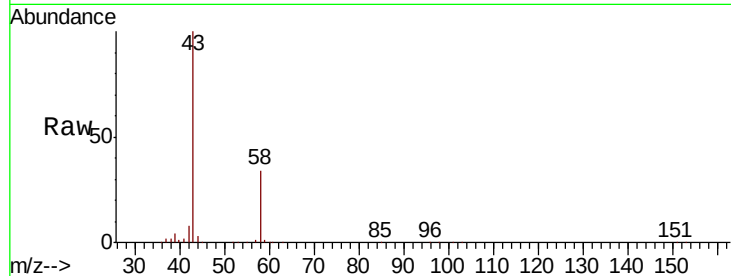
VSTD20034

Tot Ion: 43 Resp: 214972

Ion Ratio Lower Upper

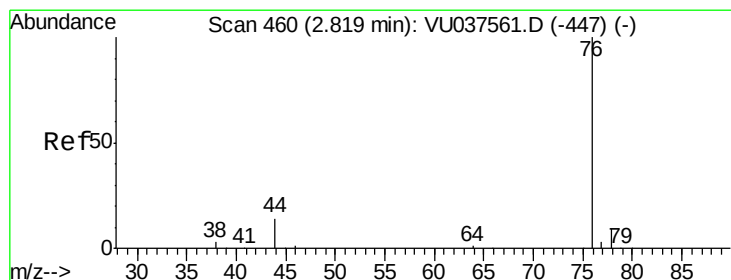
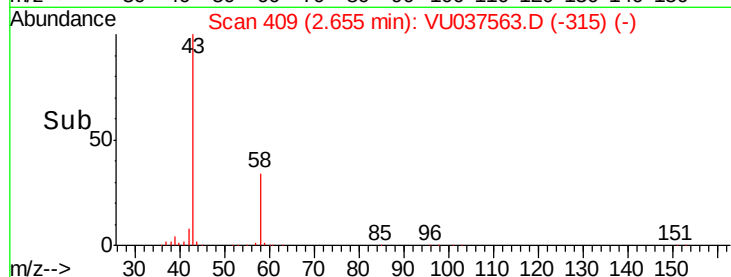
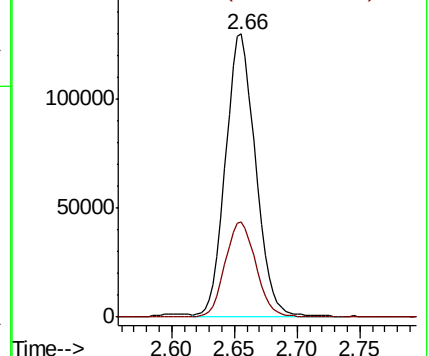
43 100

58 34.8 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037561.D (-396) (-)

Ion 58.00 (57.70 to 58.70): VU037561.D (-396) (-)



#14

Carbon disulfide

Concen: 180.792 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.00 min

Lab File: VU037563.D

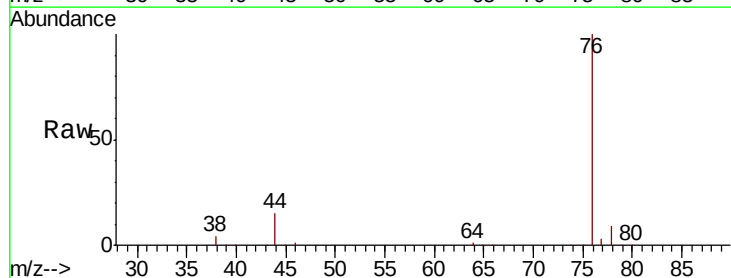
Acq: 03 Apr 2020 11:40

Tgt Ion: 76 Resp: 513088

Ion Ratio Lower Upper

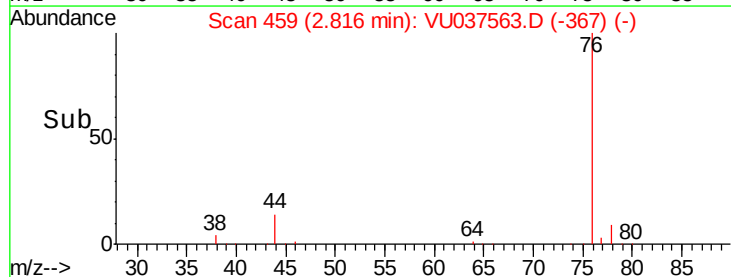
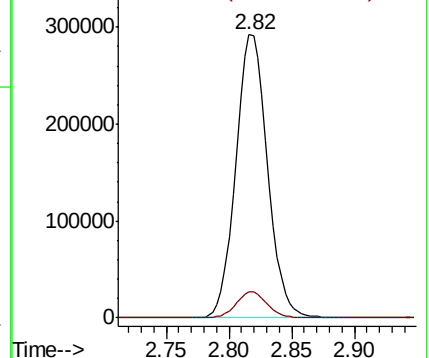
76 100

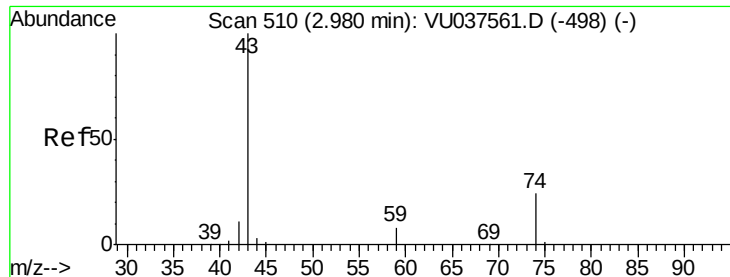
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU037561.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU037561.D (-447) (-)

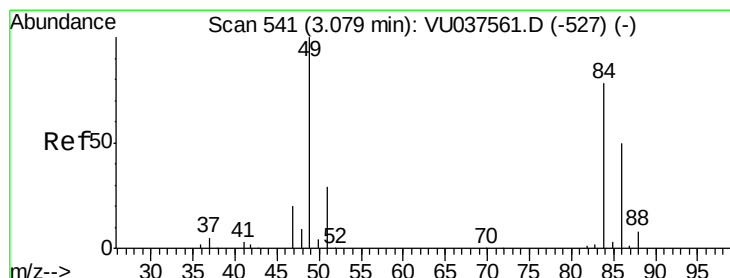
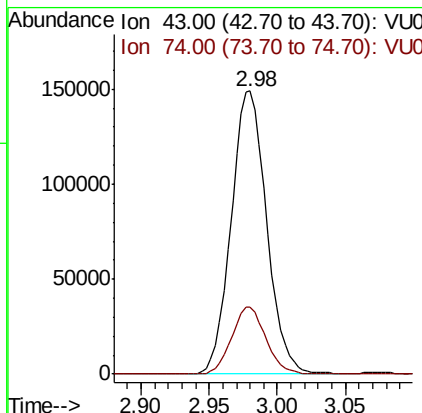
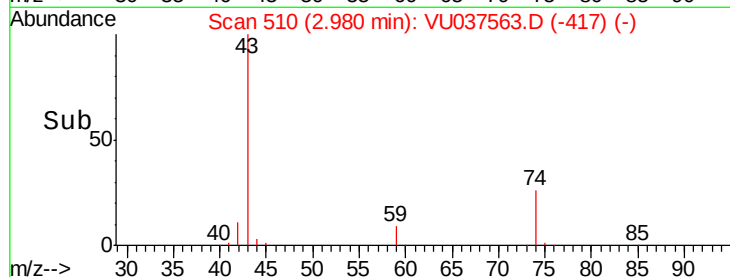
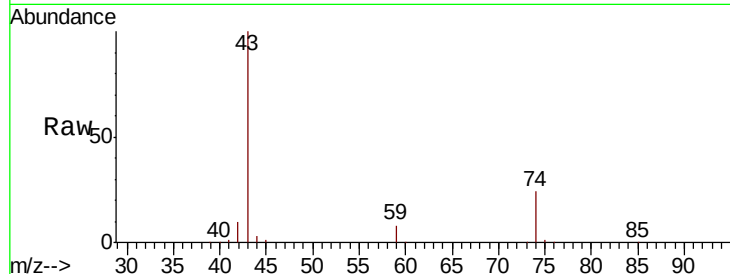




#15
Methvl Acetate
Concen: 182.191 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

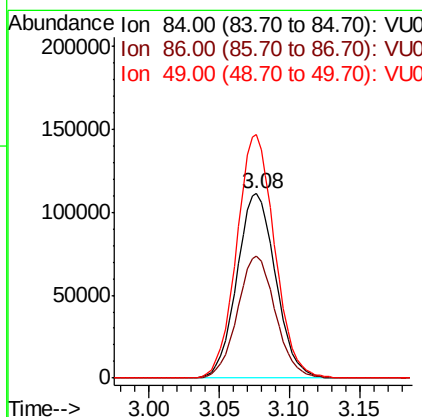
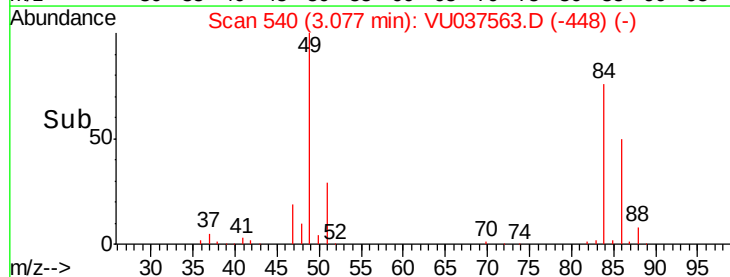
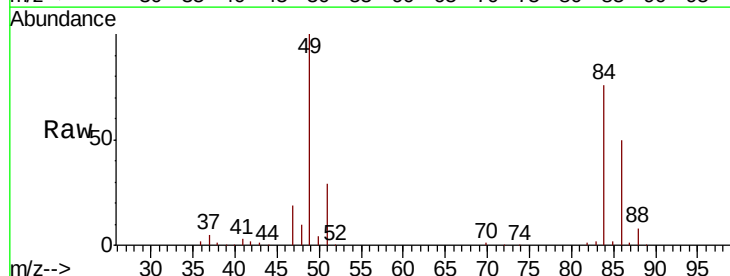
Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

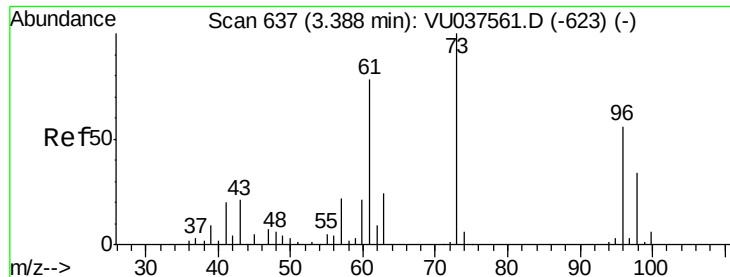
Tot Ion: 43 Resp: 267558
Ion Ratio Lower Upper
43 100
74 23.0 18.8 28.2



#16
Methylene chloride
Concen: 180.149 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

Tgt Ion: 84 Resp: 214688
Ion Ratio Lower Upper
84 100
86 66.0 44.8 83.2
49 132.0 89.7 166.5





#17

trans-1,2-Dichloroethene

Concen: 177.019 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

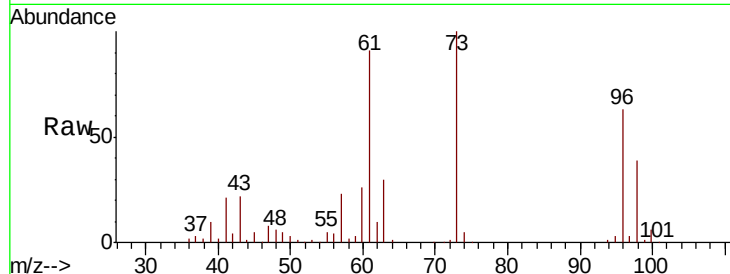
Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

Tot Ion: 96 Resp: 187279

Ion	Ratio	Lower	Upper
96	100		
61	144.3	97.3	180.7
98	62.3	42.7	79.3

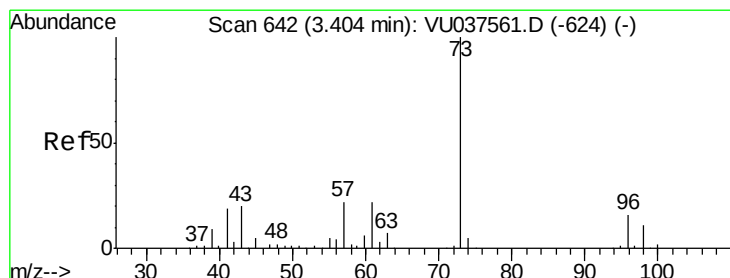
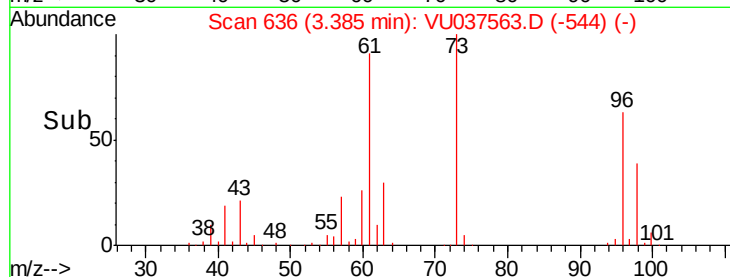
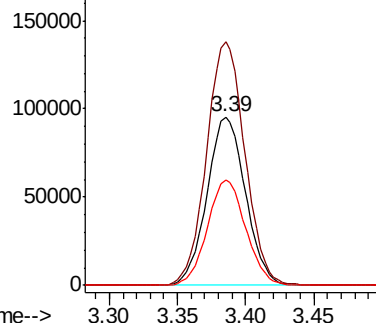


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 180.468 ug/L

RT: 3.40 min Scan# 641

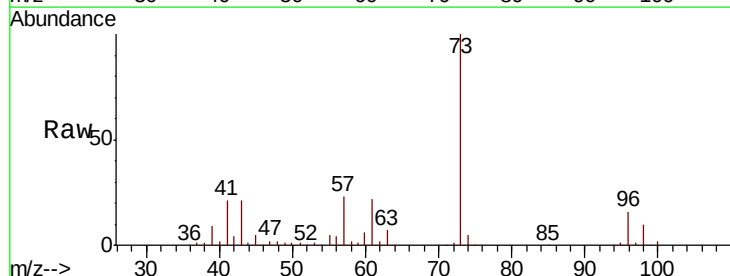
Delta R.T. -0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Tgt Ion: 73 Resp: 669272

Ion	Ratio	Lower	Upper
73	100		
43	21.1	16.4	24.6
57	22.9	17.7	26.5

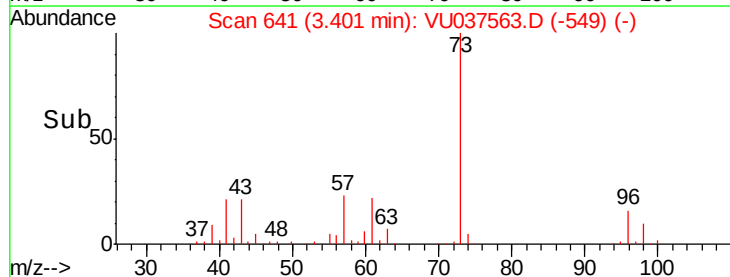
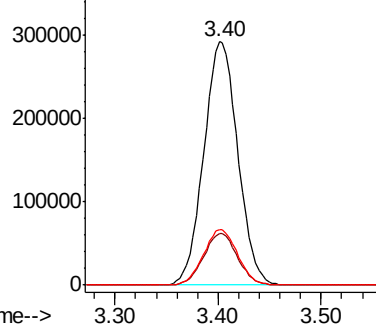


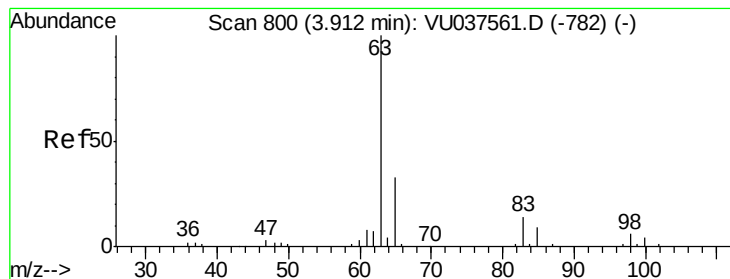
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 181.782 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

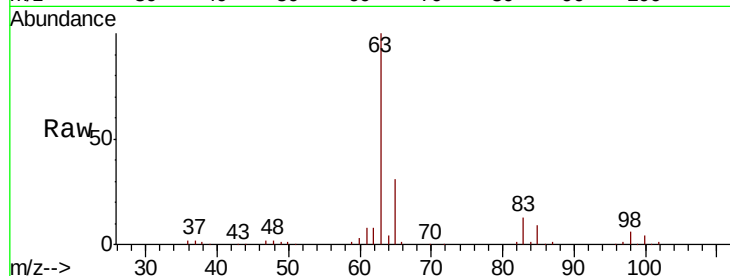
Tot Ion: 63 Resp: 376800

Ion Ratio Lower Upper

63 100

65 31.5 23.2 43.2

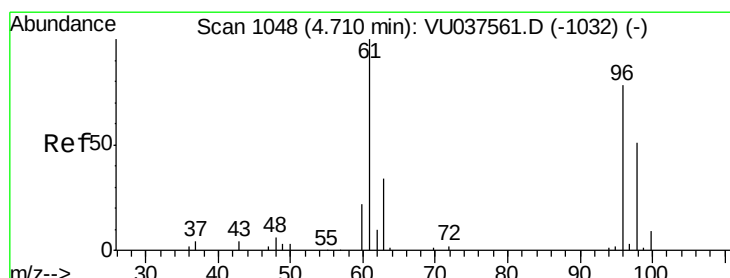
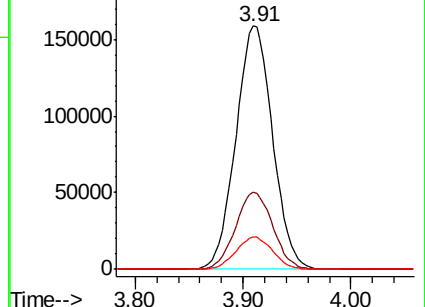
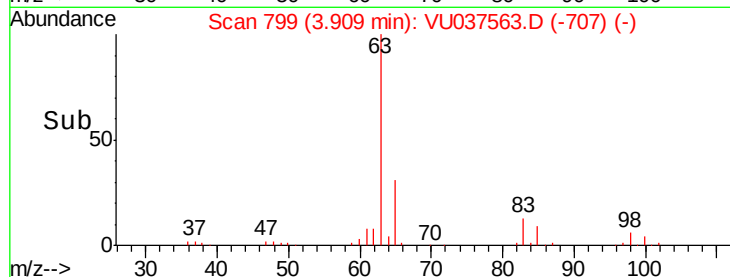
83 13.3 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU037563.D (-707) (-)

Ion 65.00 (64.70 to 65.70): VU037563.D (-707) (-)

Ion 83.00 (82.70 to 83.70): VU037563.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 180.636 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

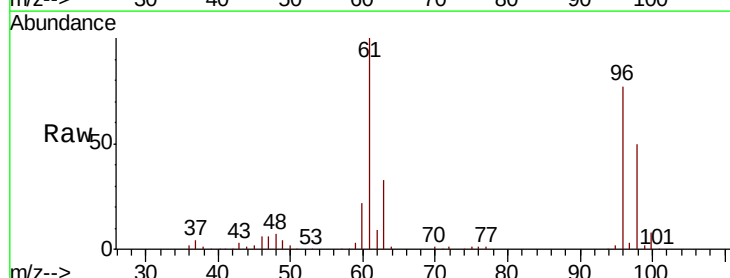
Tgt Ion: 96 Resp: 220073

Ion Ratio Lower Upper

96 100

61 130.0 90.2 167.6

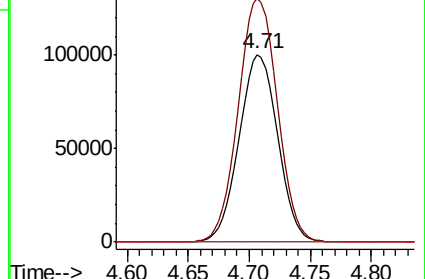
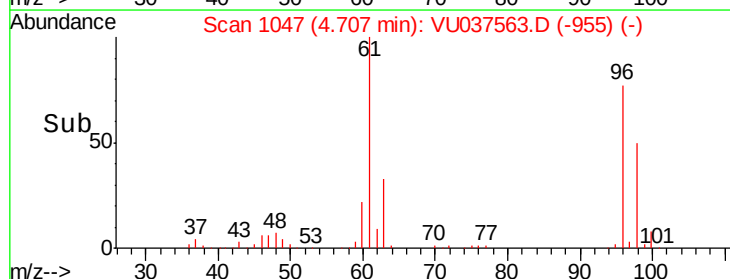
68 0.0 0.0 0.0

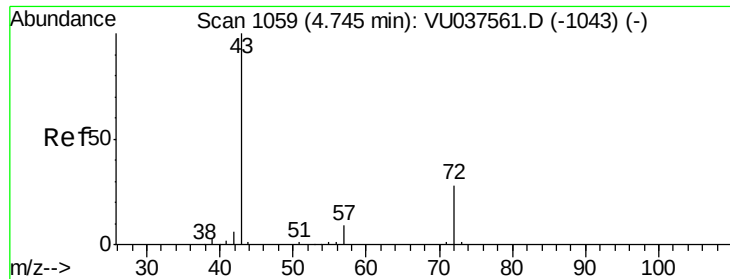


Abundance Ion 96.00 (95.70 to 96.70): VU037563.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU037563.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU037563.D (-955) (-)





#22

2-Butanone

Concen: 360.367 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

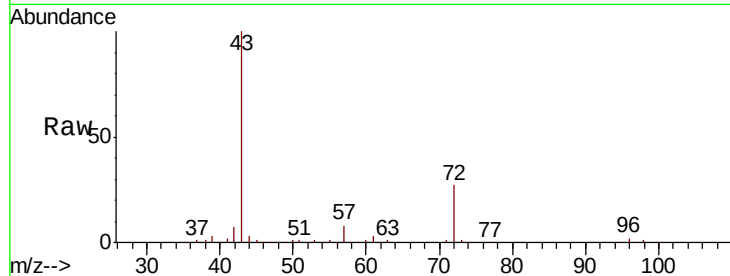
VSTD20034

Tot Ion: 43 Resp: 381183

Ion Ratio Lower Upper

43 100

72 27.2 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037563.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037563.D (-966) (-)

4.75

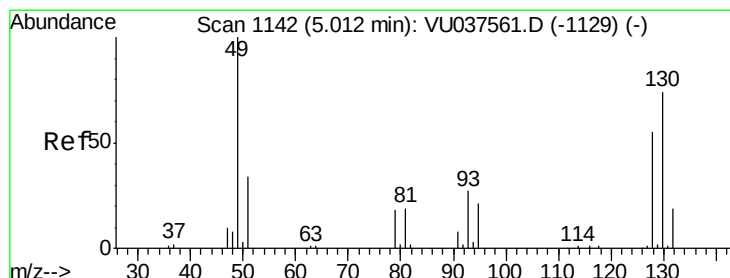
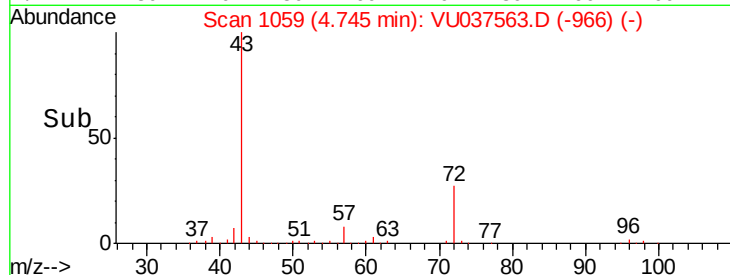
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 182.444 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Tgt Ion:128 Resp: 106687

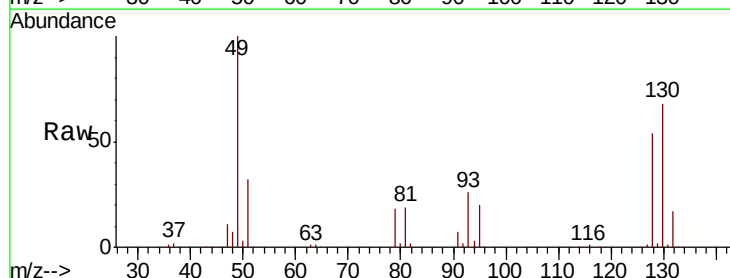
Ion Ratio Lower Upper

128 100

49 185.4 127.3 236.5

130 125.5 93.9 174.5

51 59.4 49.4 74.0



Abundance Ion 128.00 (127.70 to 128.70): VU037563.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037563.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037563.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037563.D (-1049) (-)

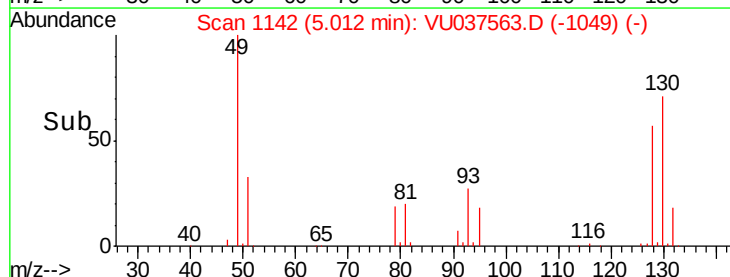
5.01

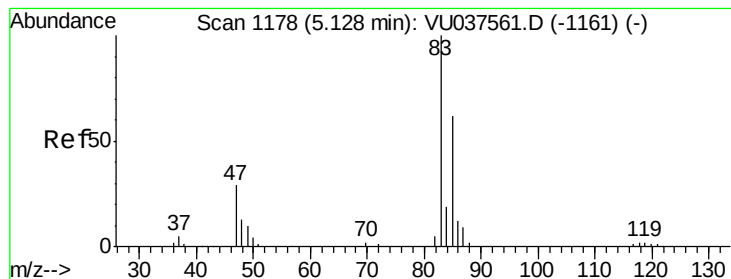
100000

50000

0

Time-->





#25

Chloroform

Concen: 176.910 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

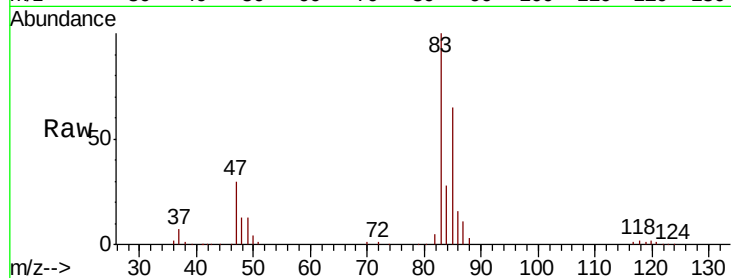
VSTD20034

Tot Ion: 83 Resp: 382329

Ion Ratio Lower Upper

83 100

85 65.4 43.7 81.1



Abundance Ion 83.00 (82.70 to 83.70): VU037561.D (-1161) (-)

Ion 85.00 (84.70 to 85.70): VU037561.D (-1161) (-)

5.13

200000

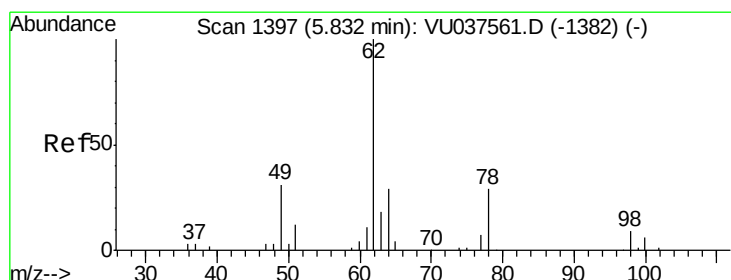
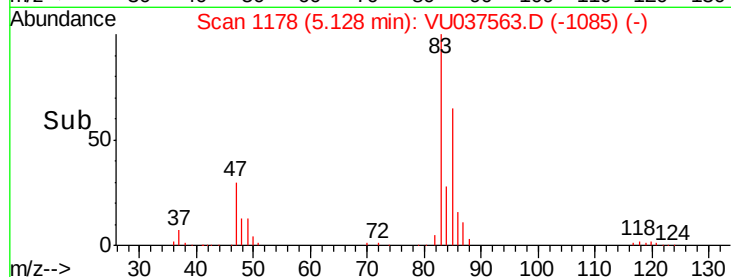
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 184.631 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU037563.D

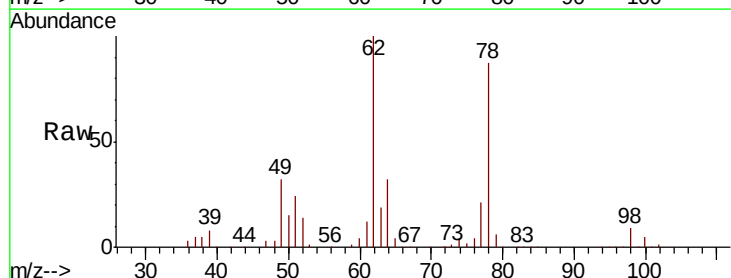
Acq: 03 Apr 2020 11:40

Tgt Ion: 62 Resp: 307945

Ion Ratio Lower Upper

62 100

98 8.6 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU037561.D (-1382) (-)

Ion 98.00 (97.70 to 98.70): VU037561.D (-1382) (-)

5.83

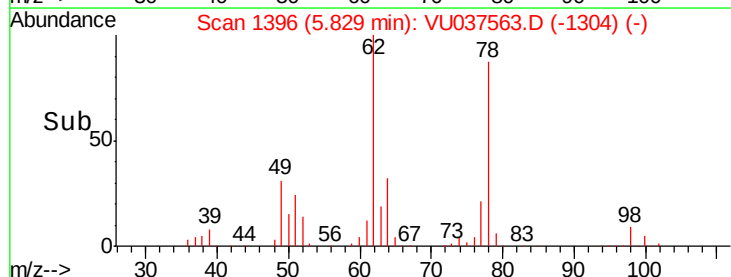
150000

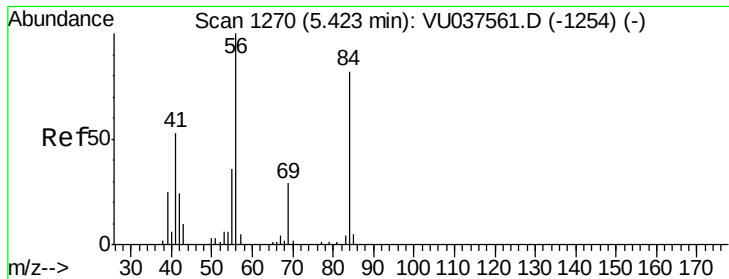
100000

50000

0

Time-->

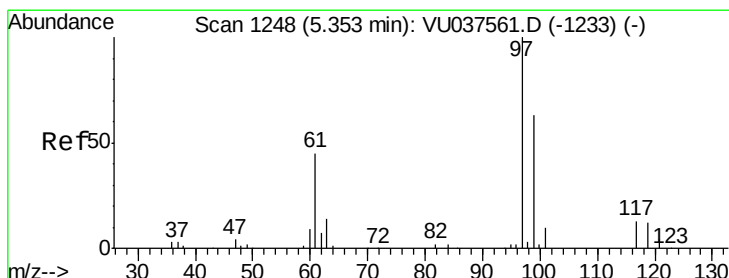
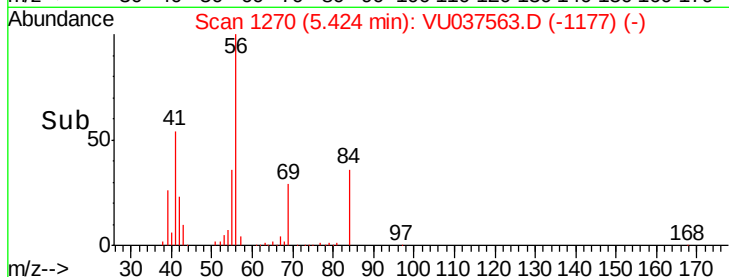
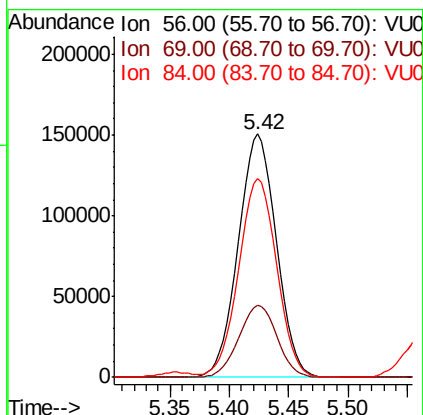
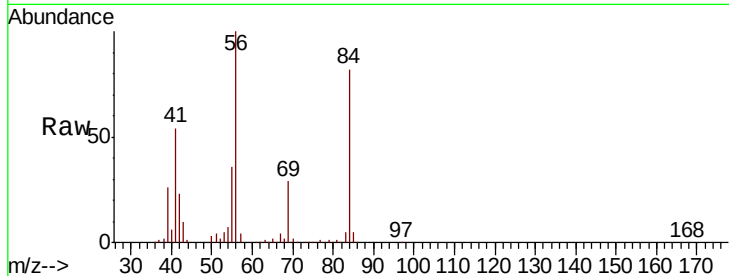




#29
Cyclohexane
Concen: 181.537 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

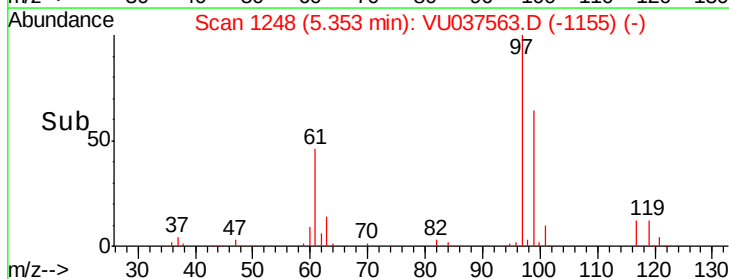
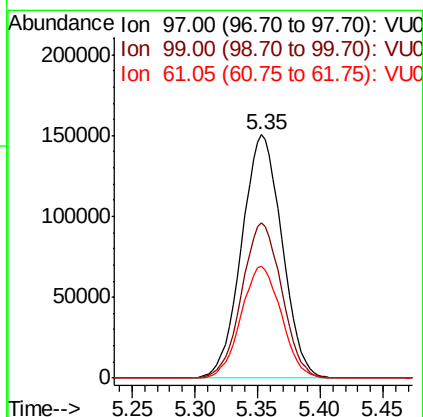
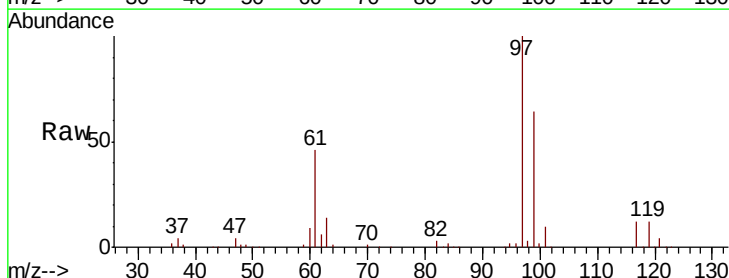
Instrument :
MSVOA_U
ClientSampleId :
VSTD20034

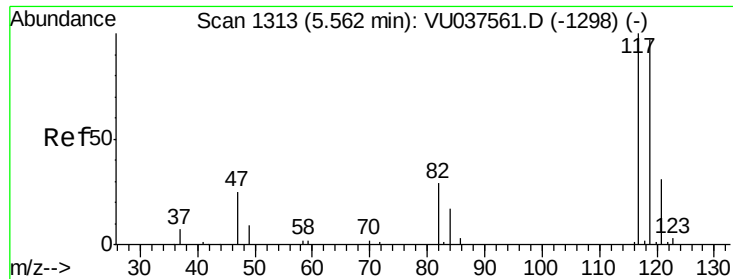
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.8	35.6
84	81.8	65.4	98.0



#30
1,1,1-Trichloroethane
Concen: 180.637 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	75.8
61	45.8	35.8	53.8

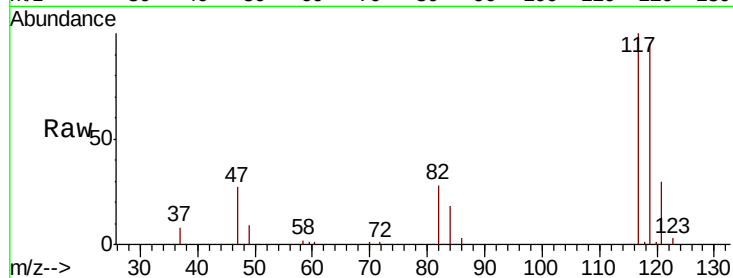




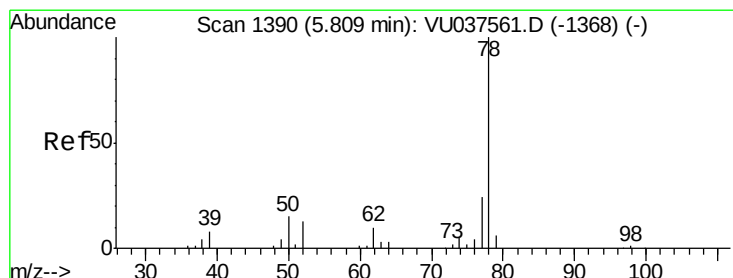
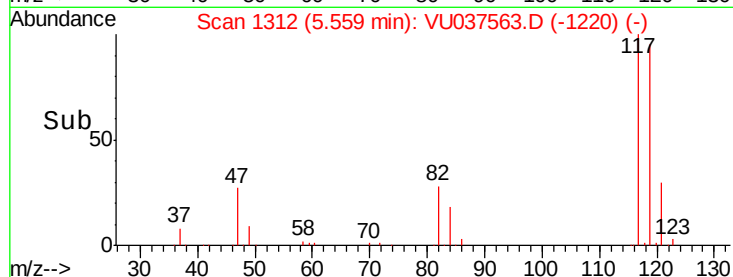
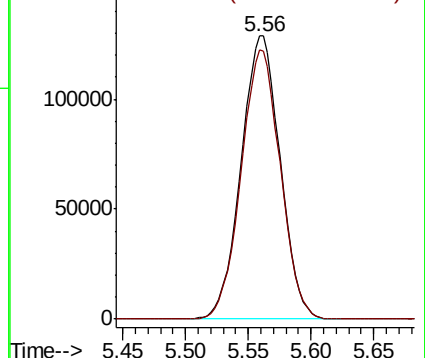
#31
Carbon tetrachloride
Concen: 181.800 ug/L
RT: 5.56 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

Instrument :
MSVOA_U
ClientSampled :
VSTD20034

Tot Ion:117 Resp: 278745
Ion Ratio Lower Upper
117 100
119 95.2 77.8 116.8

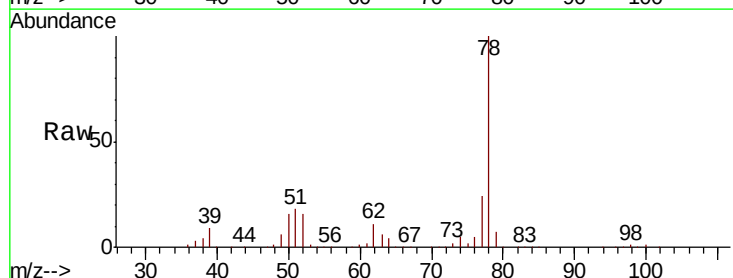


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

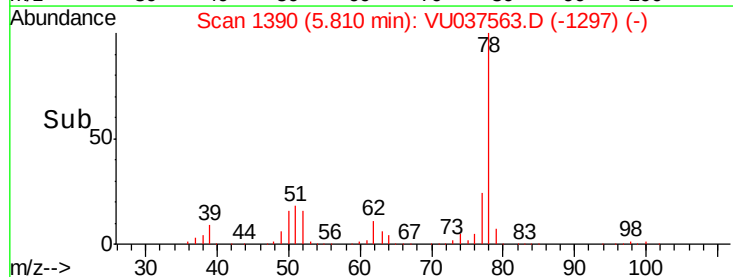
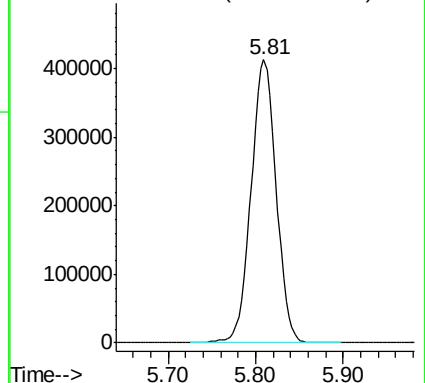


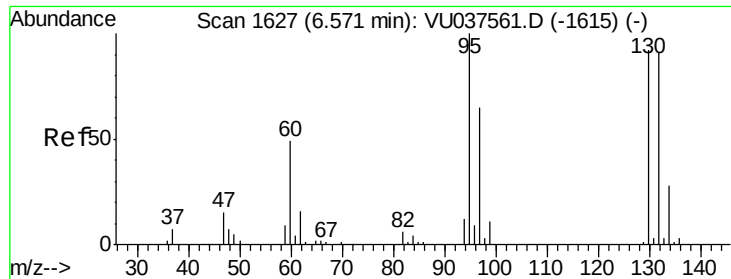
#33
Benzene
Concen: 178.418 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

Tgt Ion: 78 Resp: 821587



Abundance Ion 78.00 (77.70 to 78.70): VU0

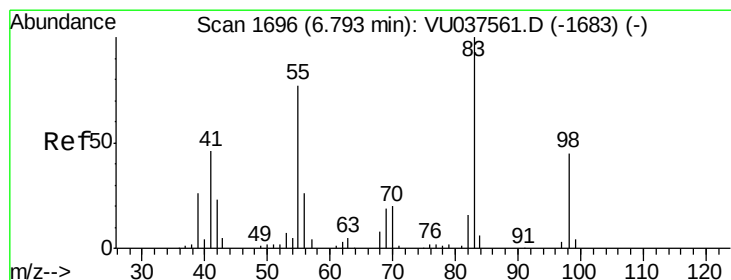
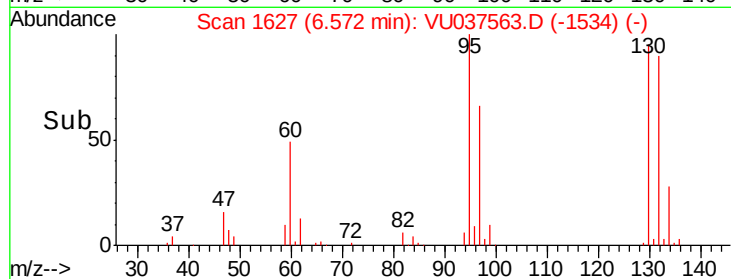
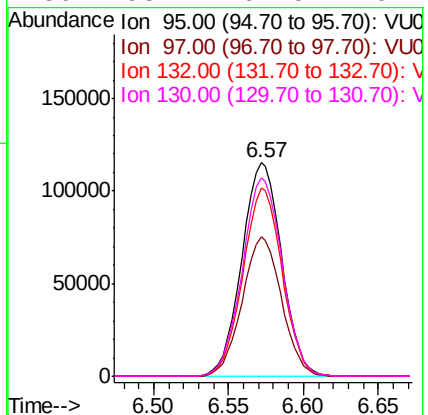
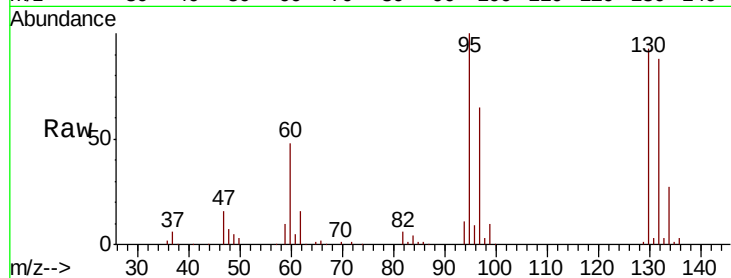




#34
 Trichloroethene
 Concen: 177.424 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

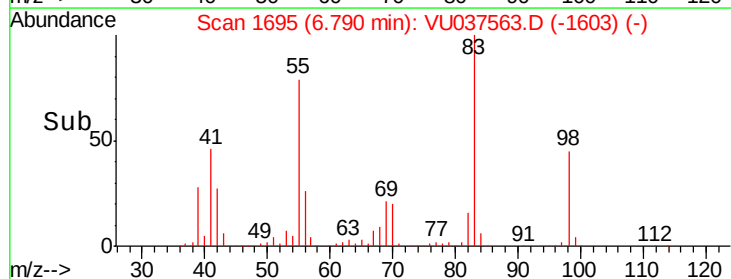
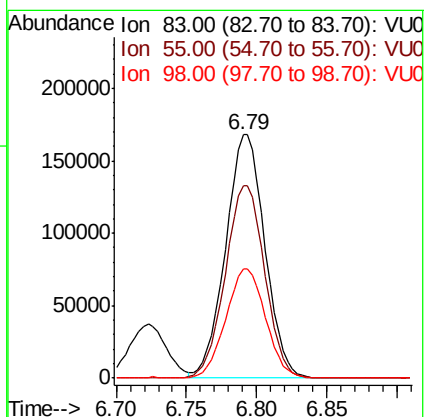
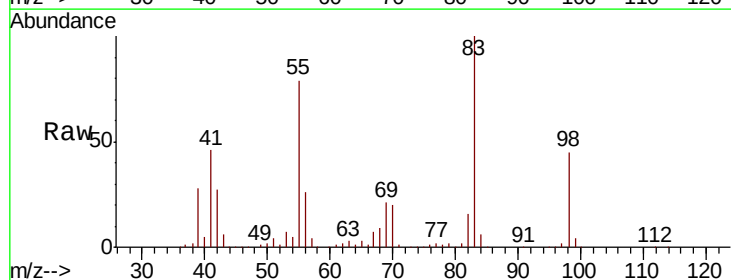
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

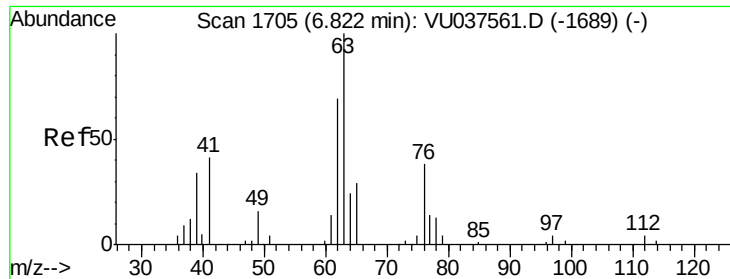
Tot Ion: 95 Resp: 213633
 Ion Ratio Lower Upper
 95 100
 97 65.1 45.2 84.0
 132 88.1 63.7 118.3
 130 93.1 64.5 119.7



#35
 Methylcyclohexane
 Concen: 175.899 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion: 83 Resp: 327244
 Ion Ratio Lower Upper
 83 100
 55 79.3 61.1 91.7
 98 45.4 35.3 52.9

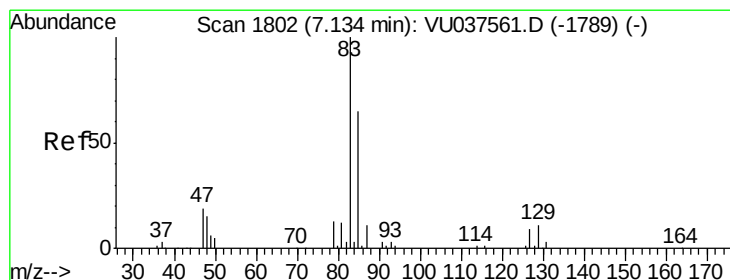
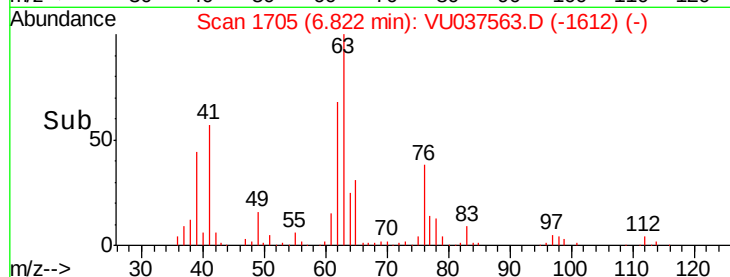
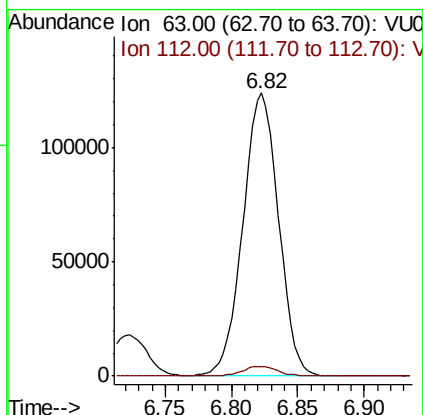
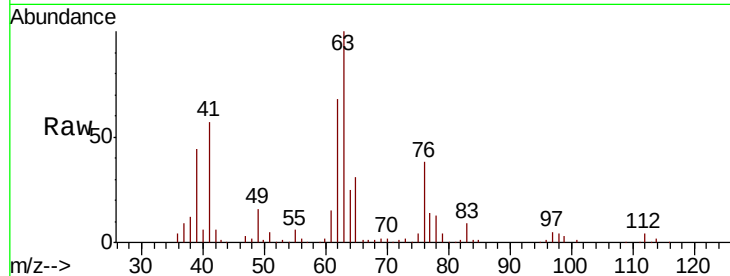




#37
 1,2-Dichloropropane
 Concen: 176.609 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

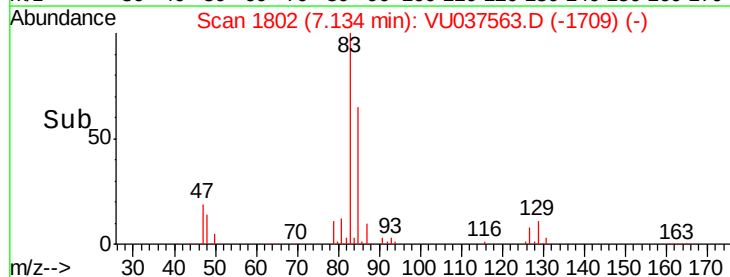
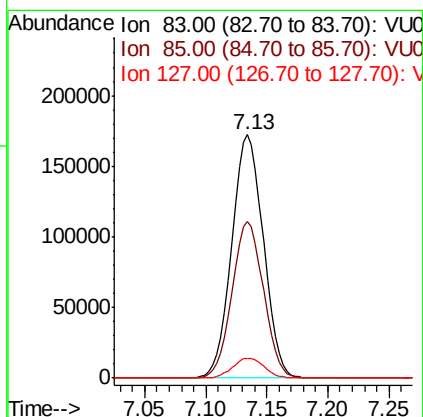
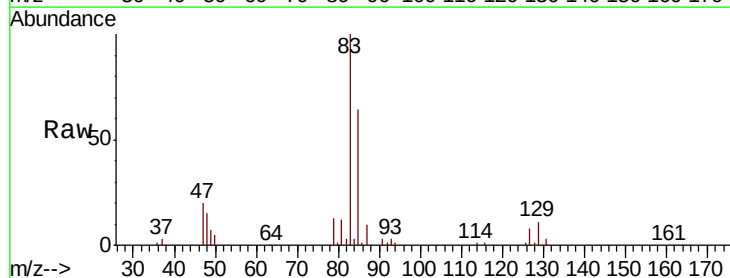
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20034

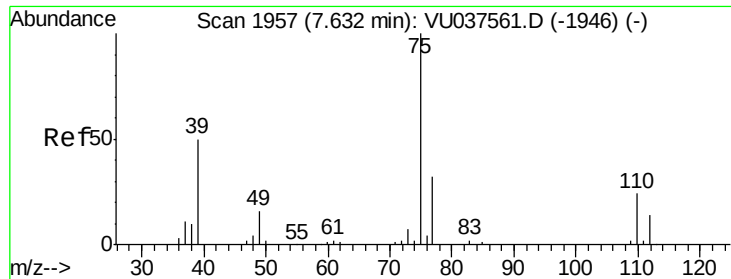
Tot Ion: 63 Resp: 231718
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.1 4.7



#38
 Bromodichloromethane
 Concen: 181.539 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion: 83 Resp: 309788
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.2 84.0
 127 8.2 7.0 10.4

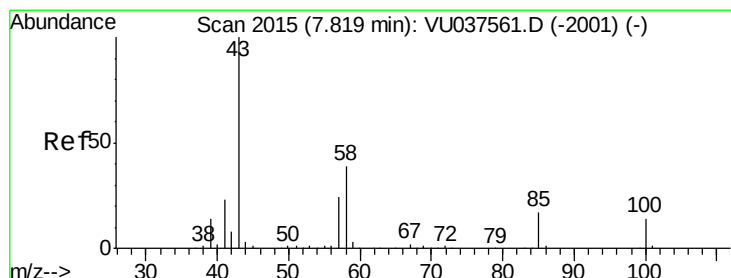
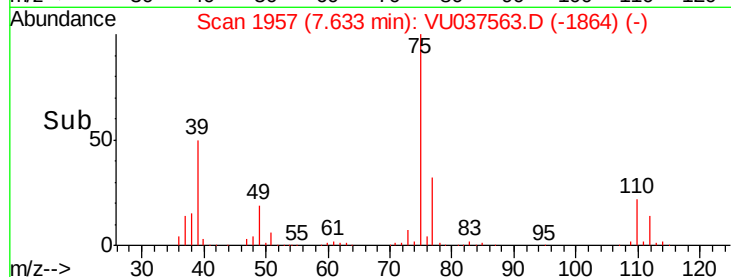
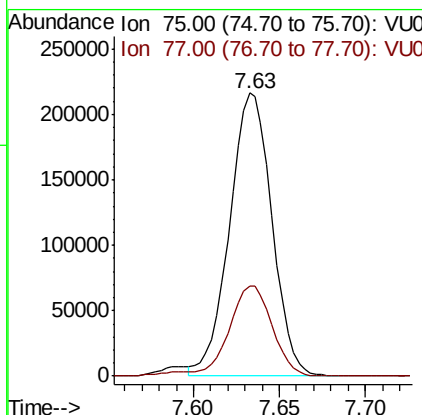
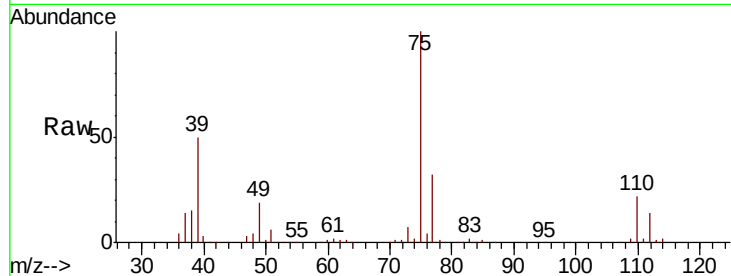




#39
 cis-1,3-Dichloropropene
 Concen: 181.310 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

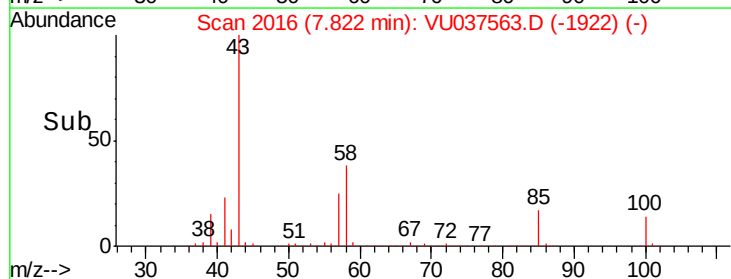
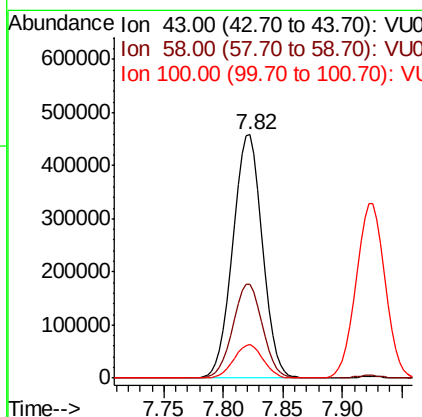
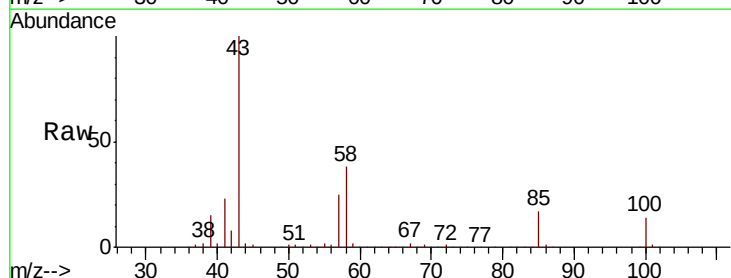
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

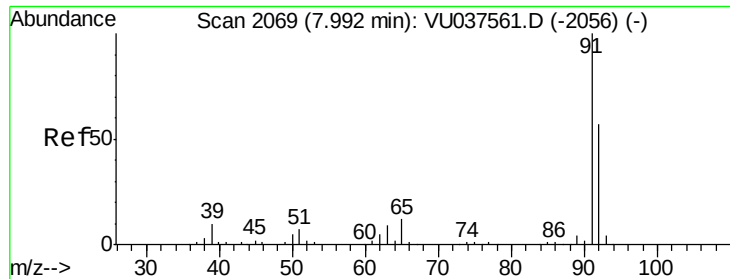
Tot Ion: 75 Resp: 371554
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 371.540 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion: 43 Resp: 791038
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.4 47.0
 100 13.6 11.0 16.4





#42

Toluene

Concen: 179.197 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

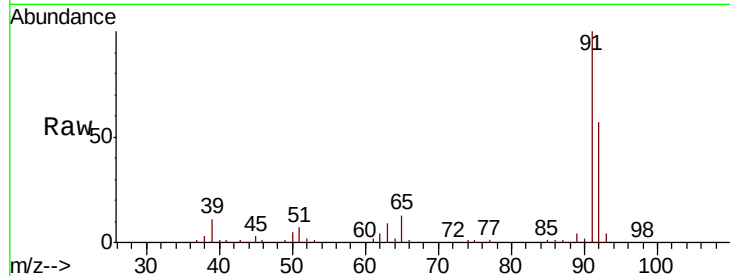
VSTD20034

Tot Ion: 91 Resp: 892965

Ion Ratio Lower Upper

91 100

92 57.2 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037561.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037561.D (-2056) (-)

7.99

600000

500000

400000

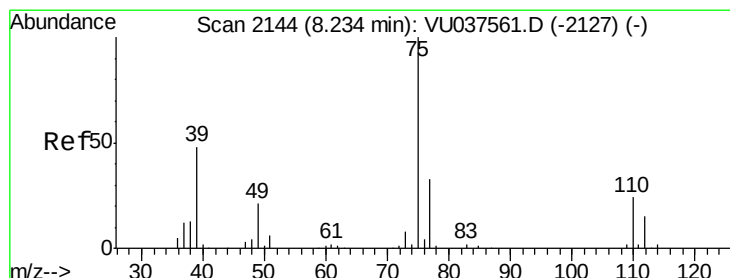
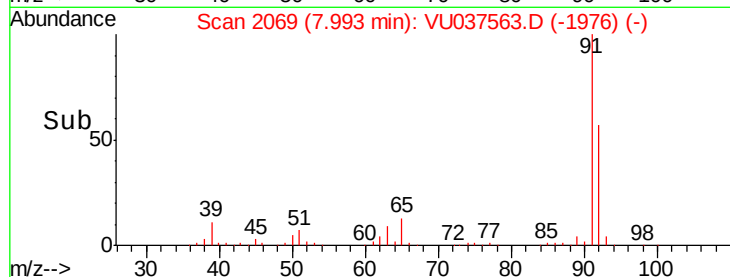
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 188.012 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037563.D

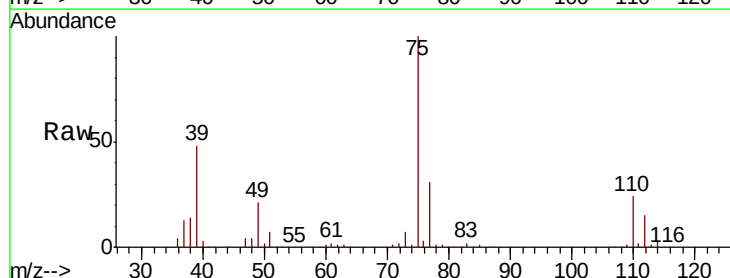
Acq: 03 Apr 2020 11:40

Tgt Ion: 75 Resp: 379424

Ion Ratio Lower Upper

75 100

77 31.3 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037561.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU037561.D (-2127) (-)

8.23

250000

200000

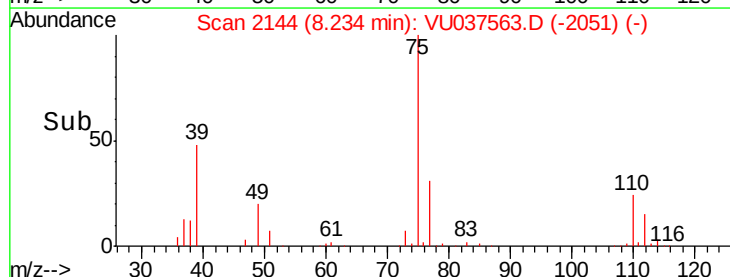
150000

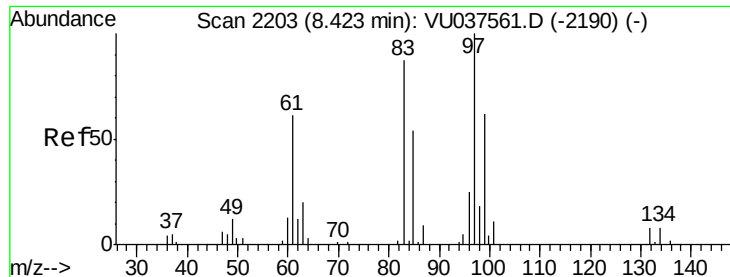
100000

50000

0

Time-->

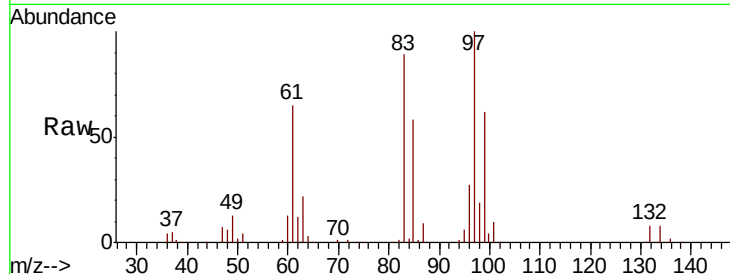




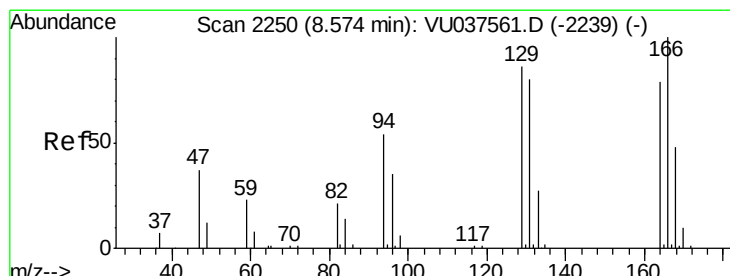
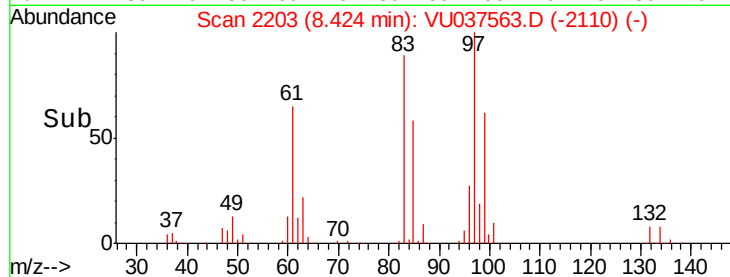
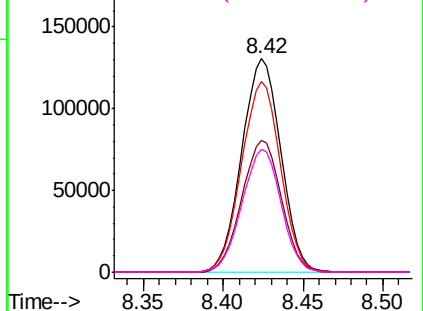
#45
 1,1,2-Trichloroethane
 Concen: 182.858 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

Tot Ion:	97	Resp:	219046
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.3	80.5
83	89.4	60.8	112.8
85	57.7	37.9	70.5

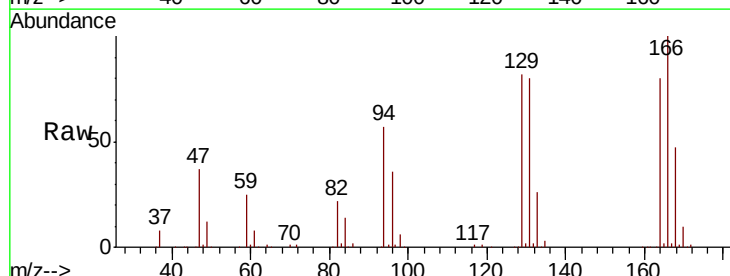


Abundance Ion 97.00 (96.70 to 97.70): VU0
 200000 Ion 99.00 (98.70 to 99.70): VU0
 150000 Ion 83.00 (82.70 to 83.70): VU0
 100000 Ion 85.00 (84.70 to 85.70): VU0

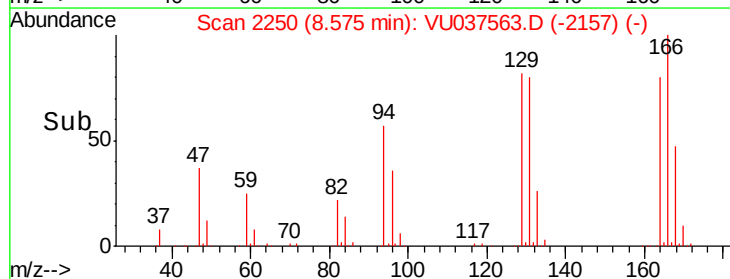
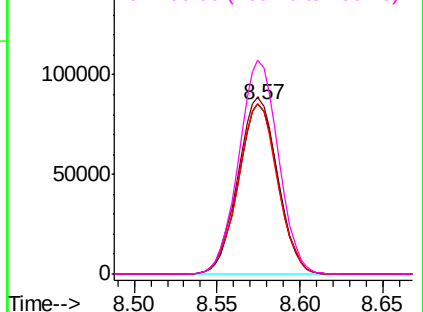


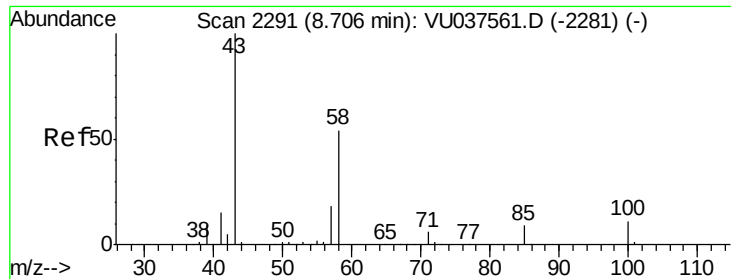
#46
 Tetrachloroethene
 Concen: 175.948 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion:	164	Resp:	142247
Ion	Ratio	Lower	Upper
164	100		
129	103.6	76.5	142.1
131	100.1	71.7	133.1
166	125.7	88.8	165.0



Abundance Ion 164.00 (163.70 to 164.70): V
 150000 Ion 129.00 (128.70 to 129.70): V
 100000 Ion 131.00 (130.70 to 131.70): V
 50000 Ion 166.00 (165.70 to 166.70): V

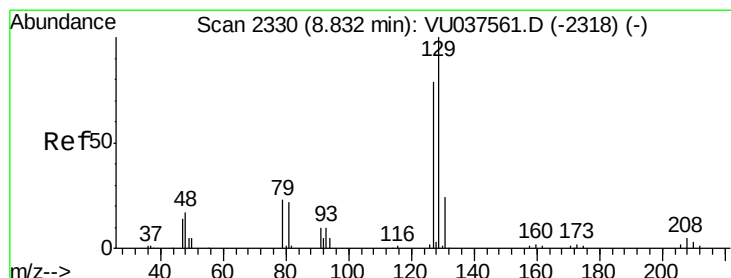
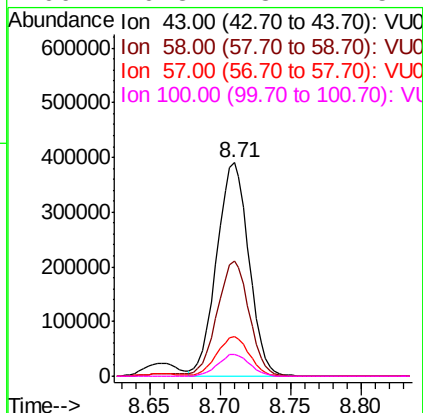
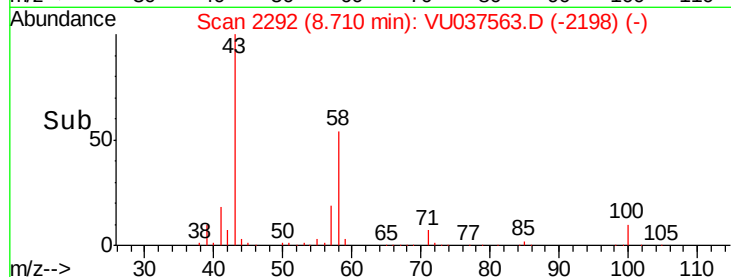
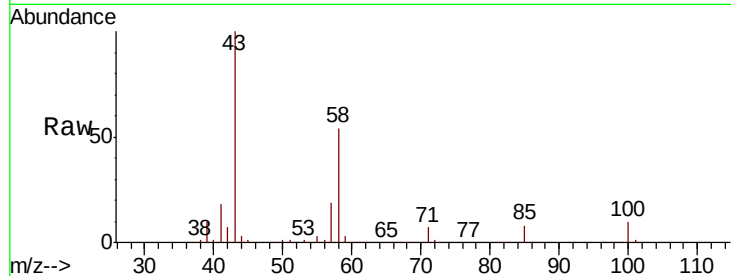




#48
2-Hexanone
Concen: 373.813 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

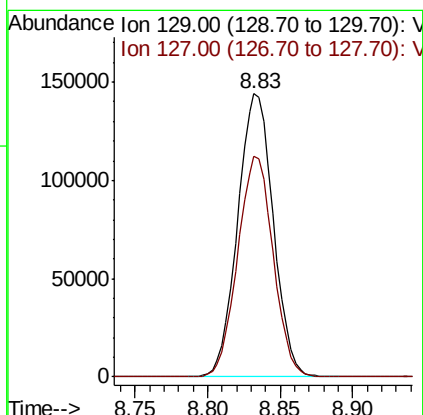
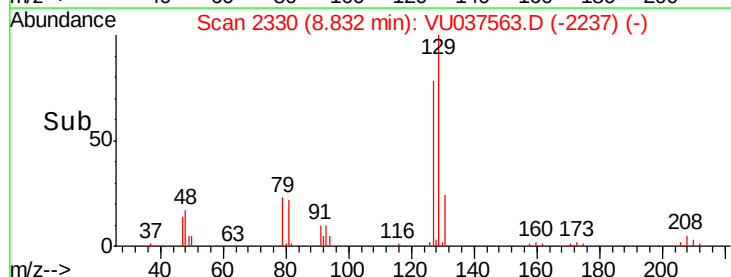
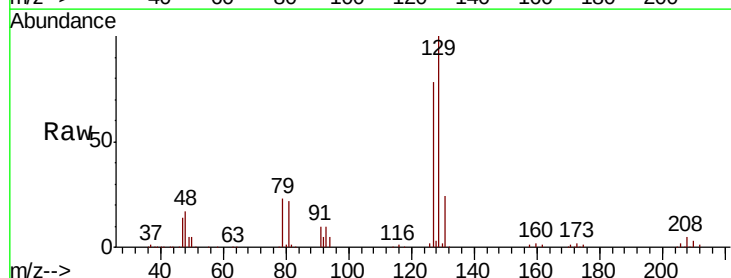
Instrument :
MSVOA_U
ClientSampled :
VSTD20034

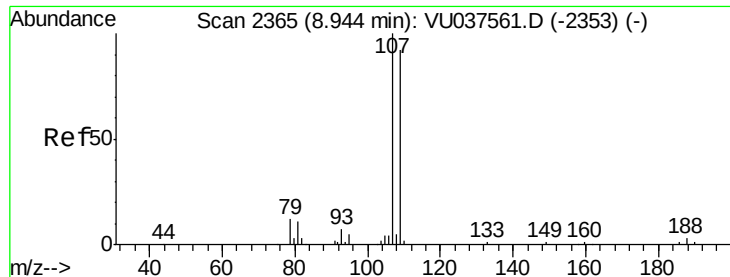
Tot Ion: 43 Resp: 618924
Ion Ratio Lower Upper
43 100
58 53.8 44.4 66.6
57 18.9 15.1 22.7
100 10.3 8.7 13.1



#49
Dibromochloromethane
Concen: 184.527 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037563.D
Acq: 03 Apr 2020 11:40

Tgt Ion: 129 Resp: 246550
Ion Ratio Lower Upper
129 100
127 77.8 55.0 102.2

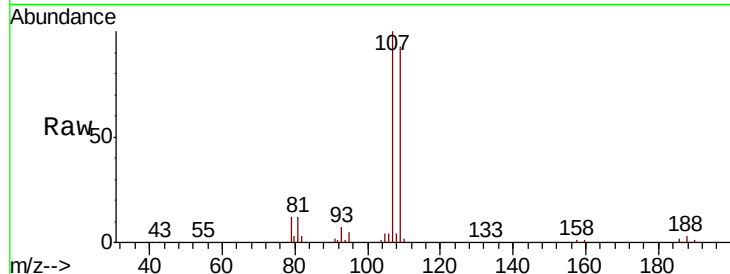




#50
 1,2-Dibromoethane
 Concen: 182.581 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.9	64.1	119.1
188	3.0	2.3	3.5

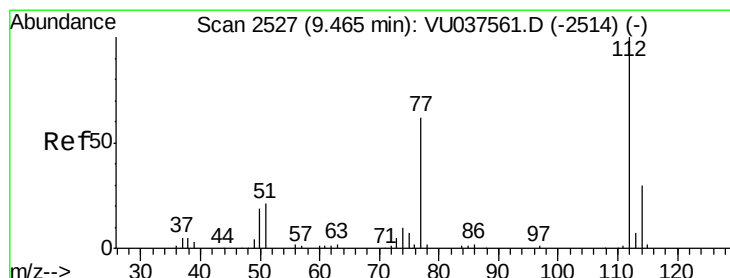
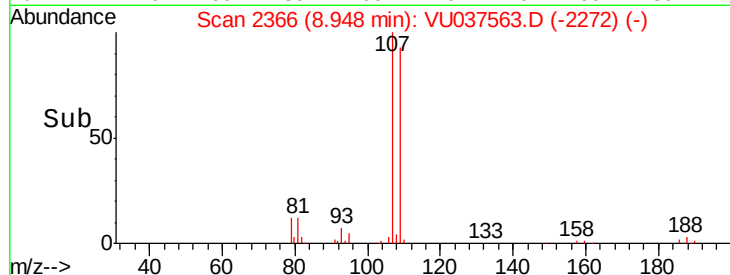
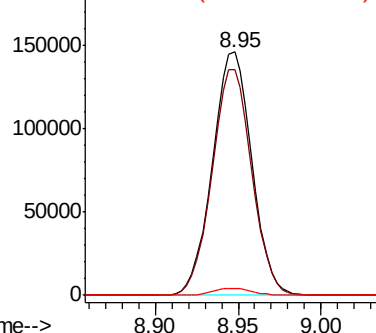


Abundance

Ion 107.00 (106.70 to 107.70): V

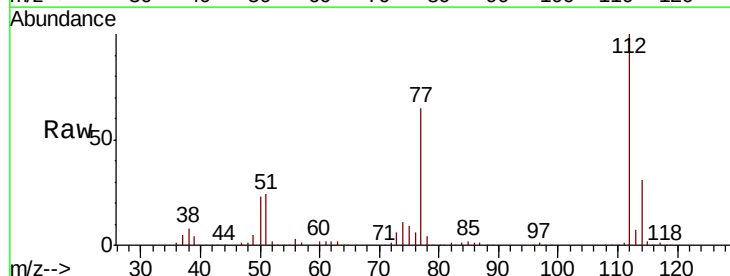
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 181.986 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	21.0	39.0
77	64.7	50.2	75.4

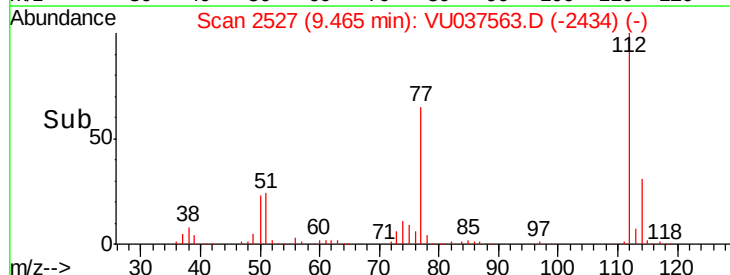
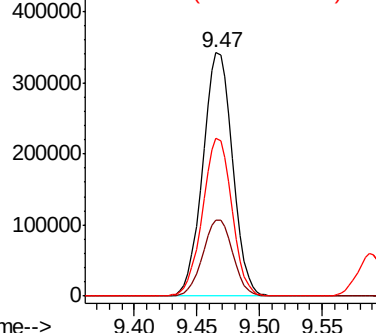


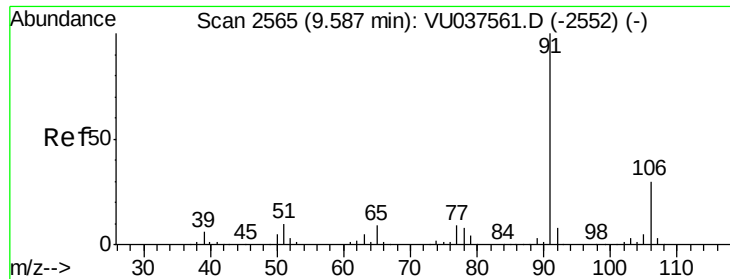
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 181.492 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

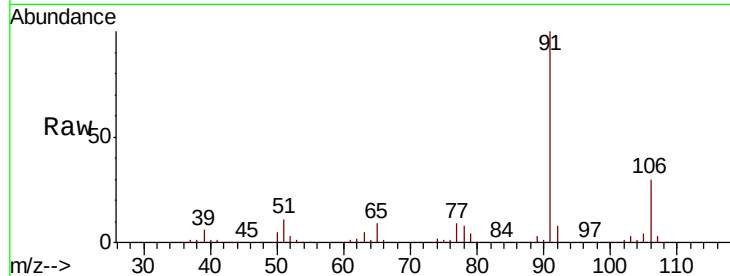
VSTD20034

Tot Ion: 91 Resp: 1022765

Ion Ratio Lower Upper

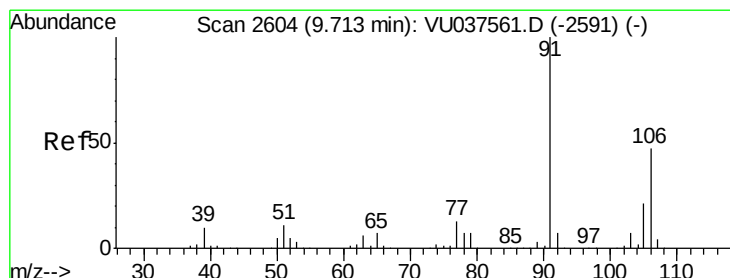
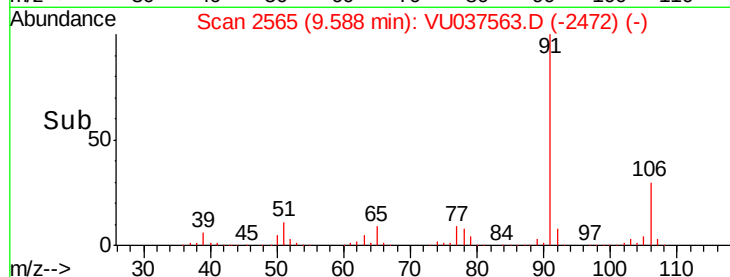
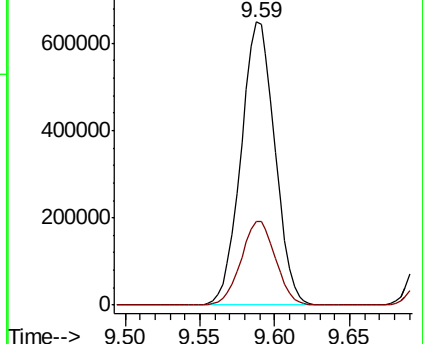
91 100

106 29.6 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037563.D (-2552) (-)

Ion 106.00 (105.70 to 106.70): VU037563.D (-2552) (-)



#53

m,p-Xylene

Concen: 177.247 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037563.D

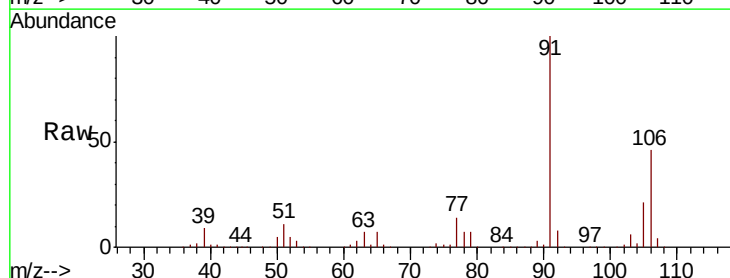
Acq: 03 Apr 2020 11:40

Tgt Ion: 106 Resp: 372573

Ion Ratio Lower Upper

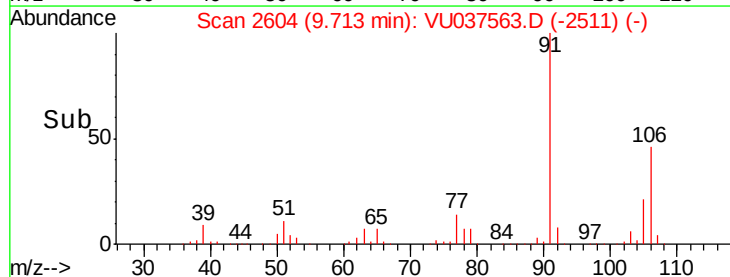
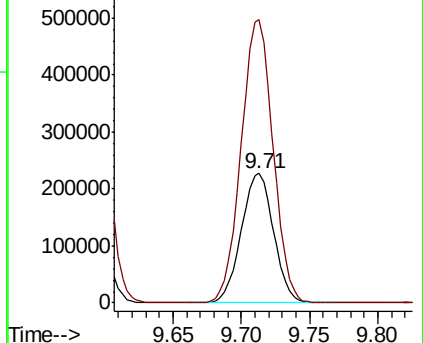
106 100

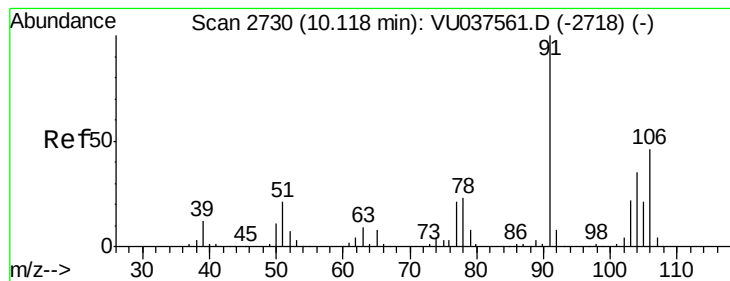
91 218.7 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037563.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VU037563.D (-2591) (-)





#54

o-xylene

Concen: 183.320 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

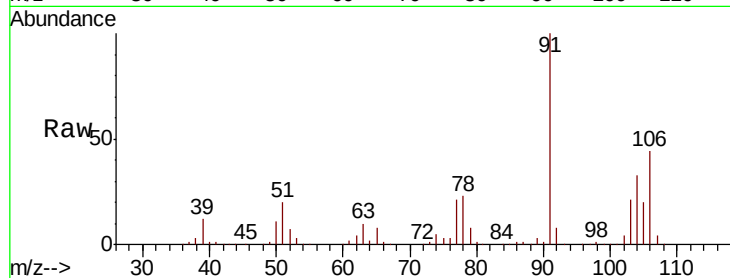
VSTD20034

Tot Ion:106 Resp: 371398

Ion Ratio Lower Upper

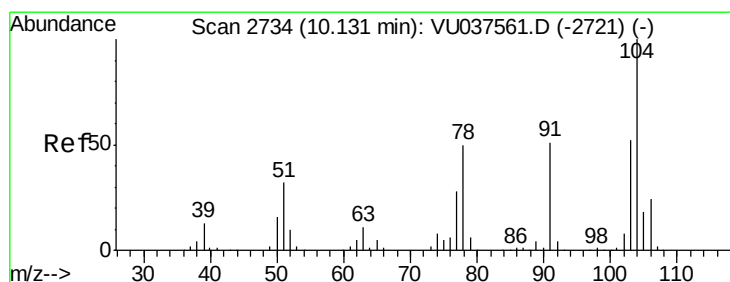
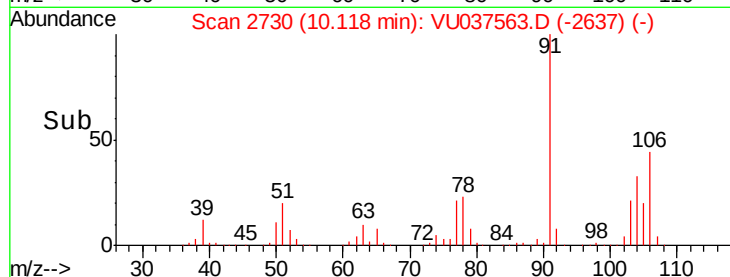
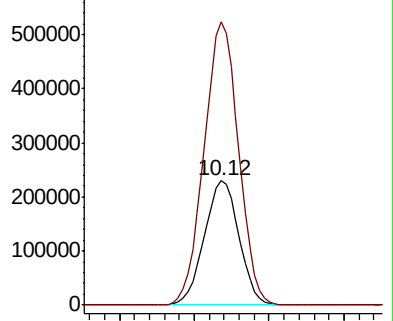
106 100

91 228.1 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 186.357 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037563.D

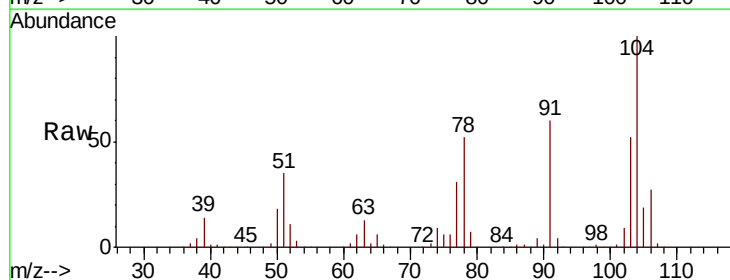
Acq: 03 Apr 2020 11:40

Tgt Ion:104 Resp: 668523

Ion Ratio Lower Upper

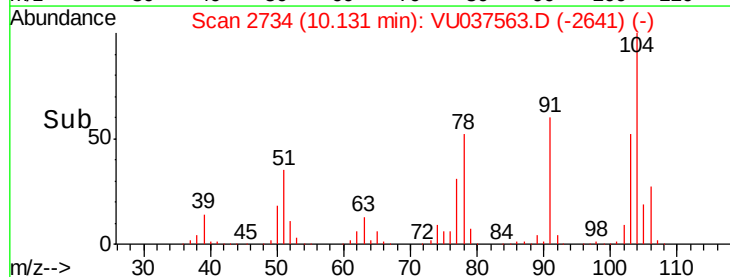
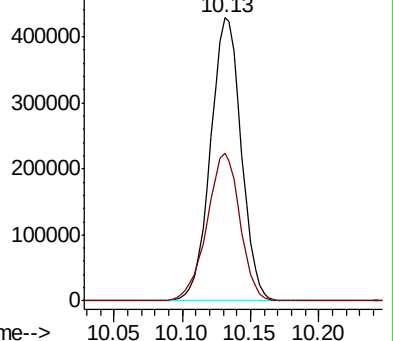
104 100

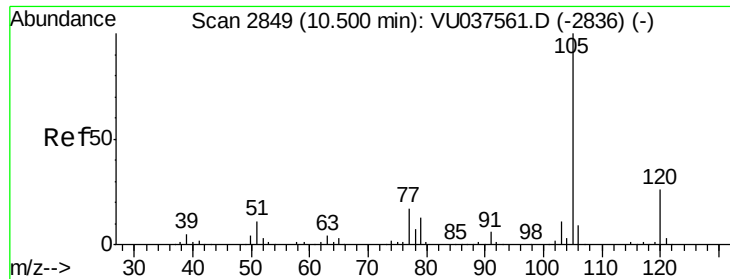
78 52.0 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 183.518 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

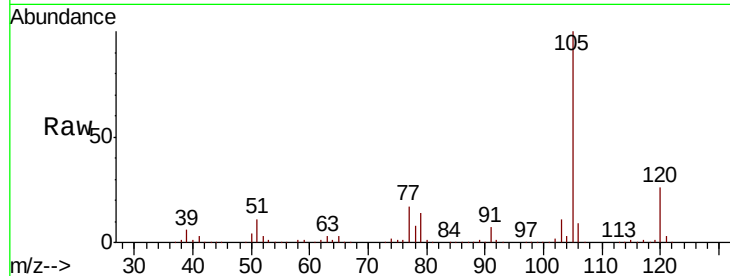
Tot Ion:105 Resp: 1008066

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

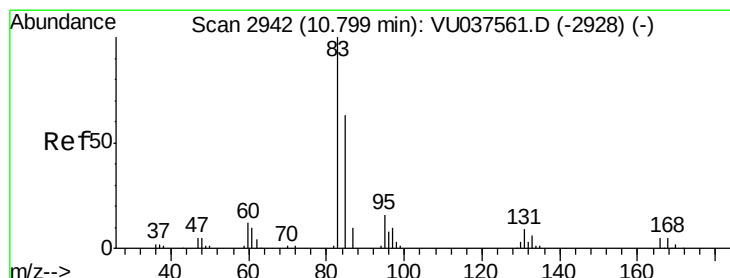
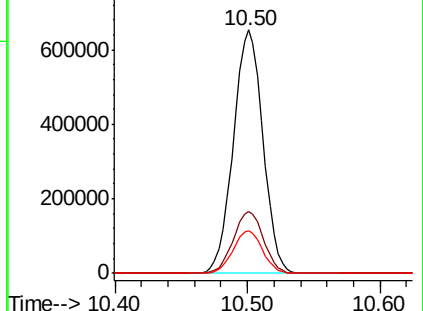
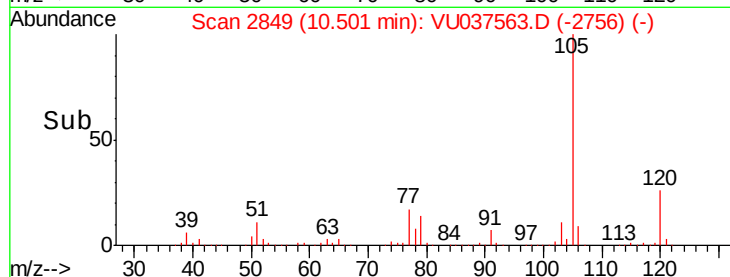
77 17.4 13.4 20.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 189.514 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

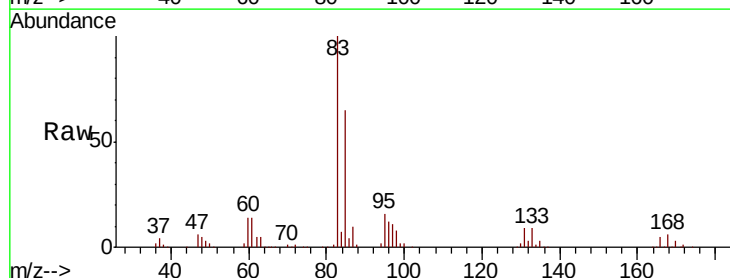
Tgt Ion: 83 Resp: 409259

Ion Ratio Lower Upper

83 100

85 64.9 44.2 82.2

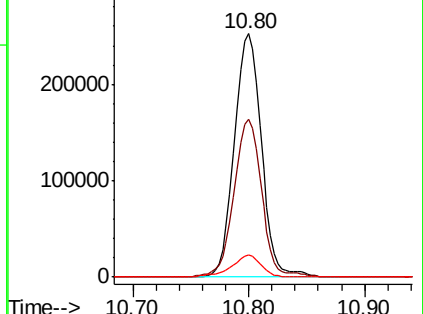
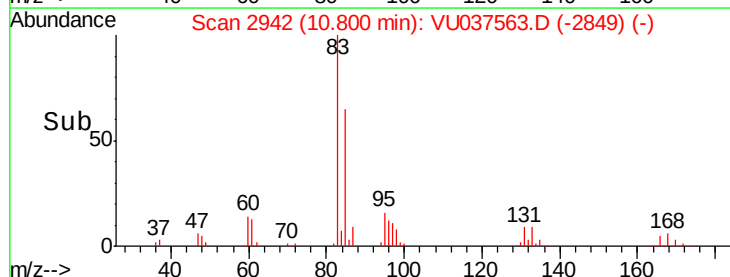
131 9.0 7.2 10.8

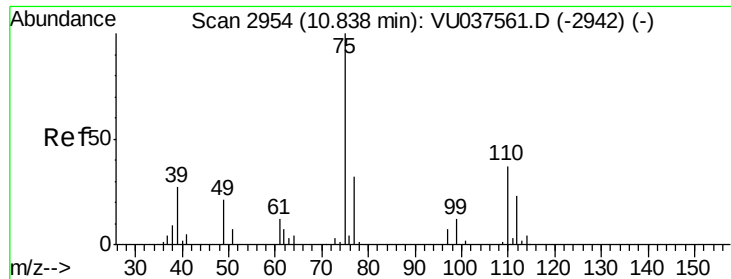


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

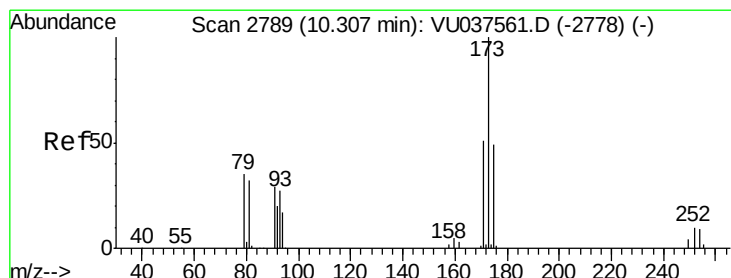
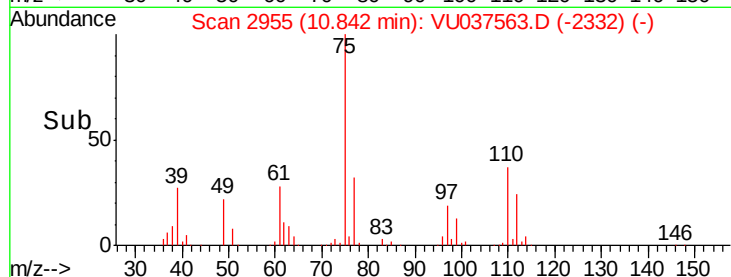
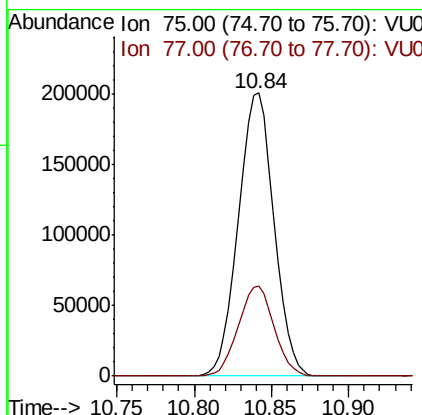
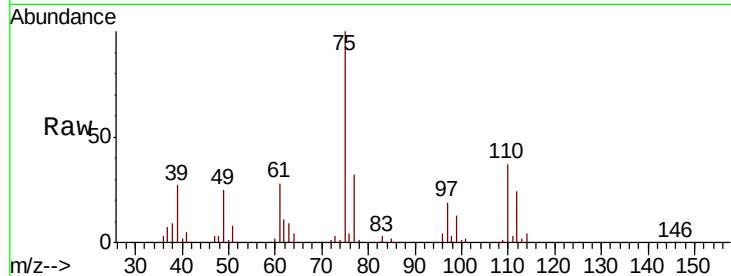




#59
 1,2,3-Trichloropropane
 Concen: 190.421 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

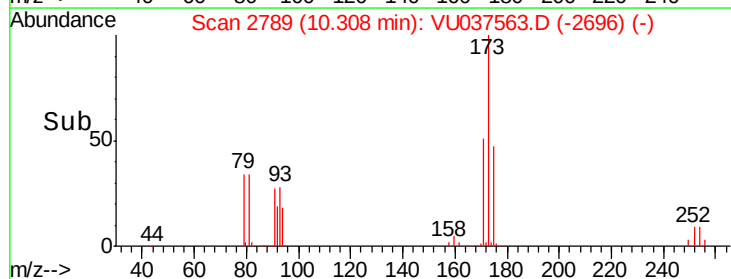
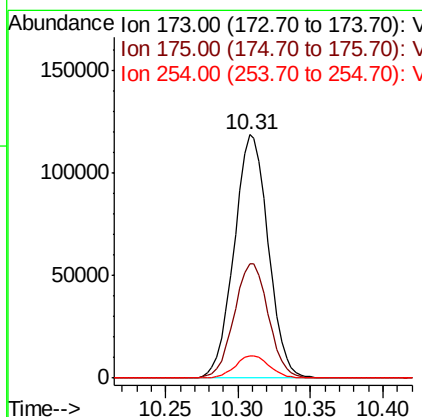
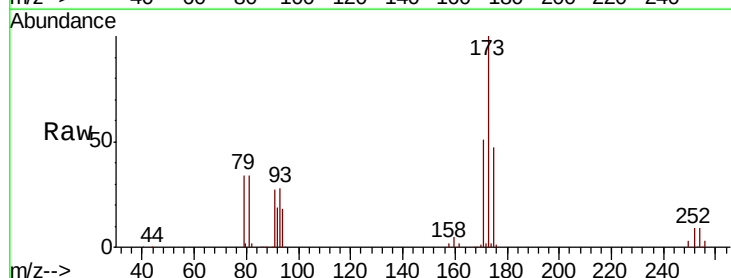
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

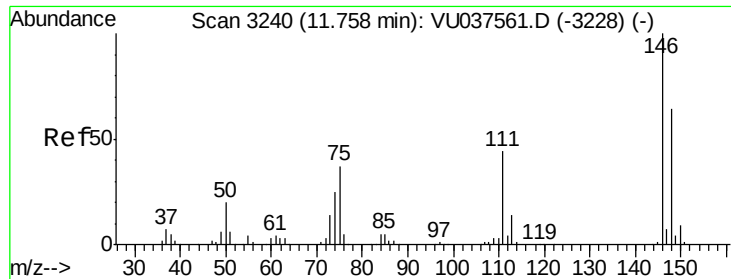
Tot Ion: 75 Resp: 321179
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.5 38.3



#61
 Bromoform
 Concen: 194.007 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion: 173 Resp: 193671
 Ion Ratio Lower Upper
 173 100
 175 47.2 38.6 58.0
 254 9.2 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 178.690 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD20034

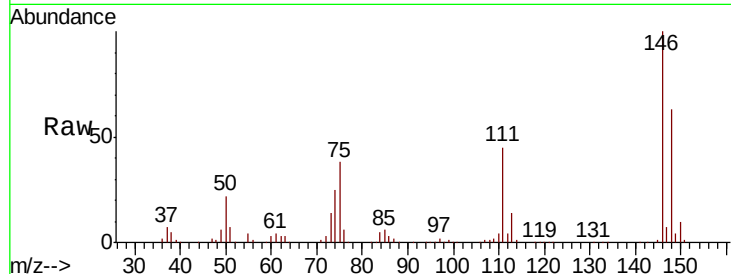
Tot Ion:146 Resp: 450560

Ion Ratio Lower Upper

146 100

111 45.1 31.1 57.7

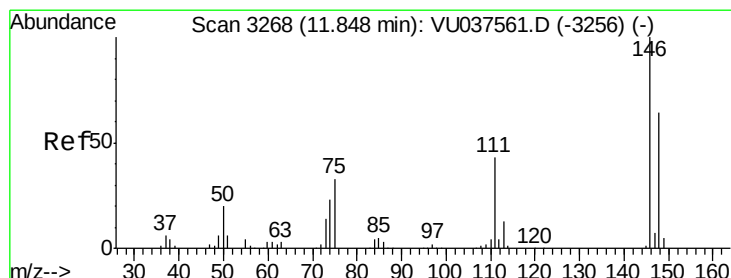
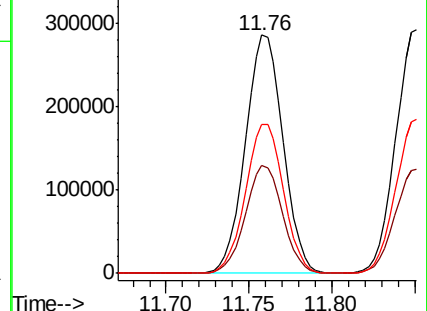
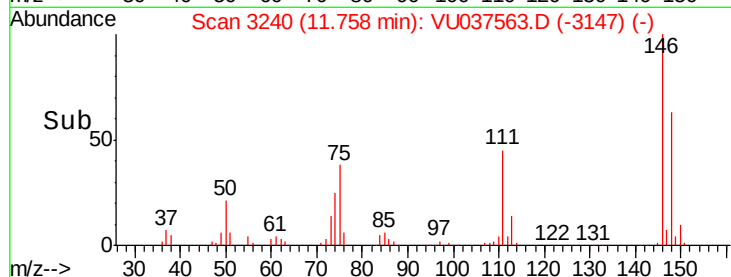
148 62.6 44.4 82.5



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



#63

1,4-Dichlorobenzene

Concen: 177.388 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

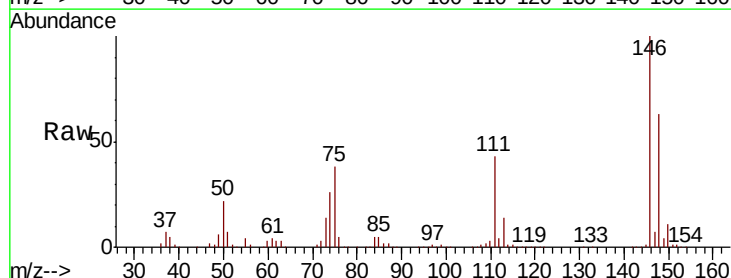
Tgt Ion:146 Resp: 451430

Ion Ratio Lower Upper

146 100

111 42.5 30.1 55.9

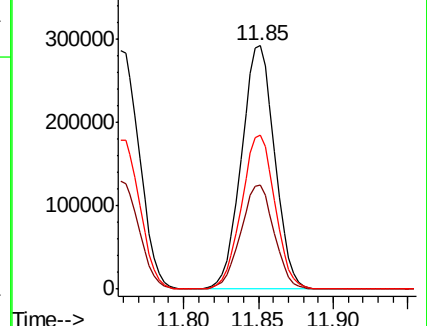
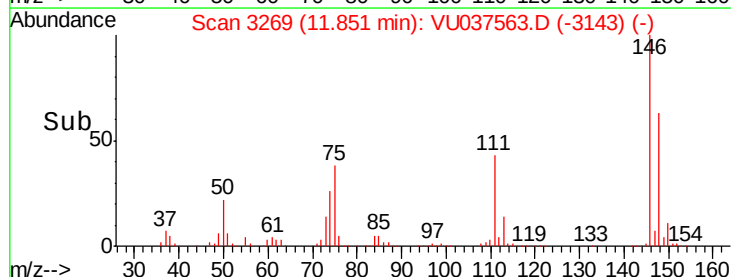
148 63.3 44.7 82.9

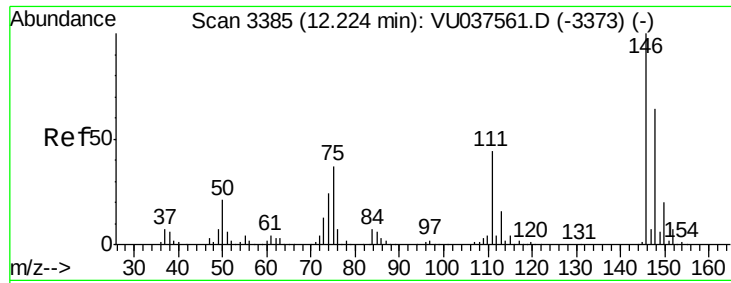


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

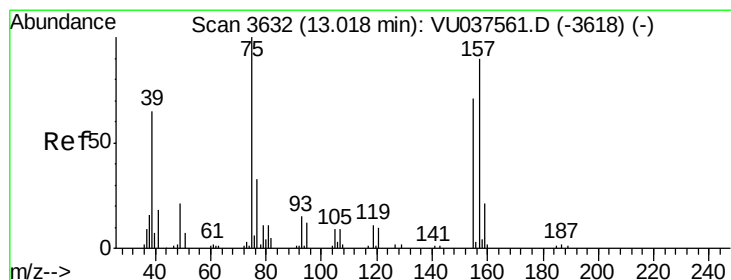
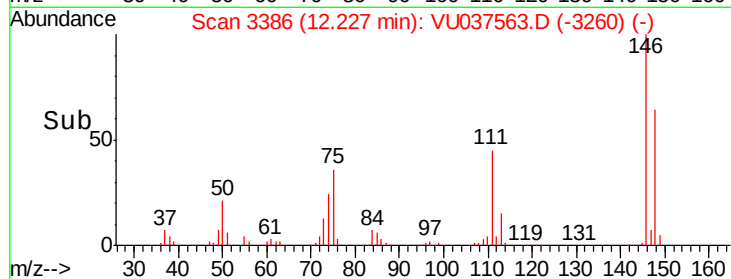
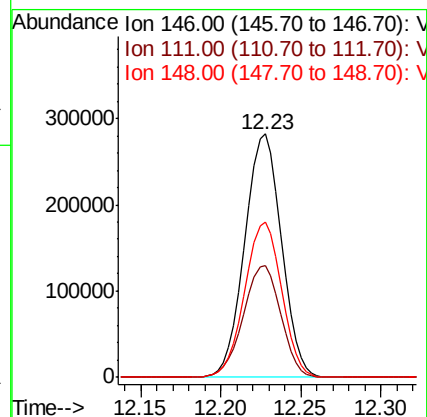
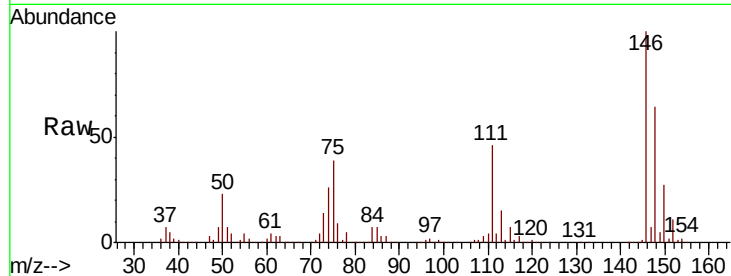




#65
 1,2-Dichlorobenzene
 Concen: 176.865 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

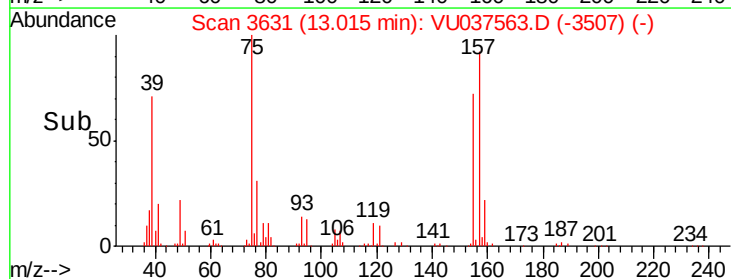
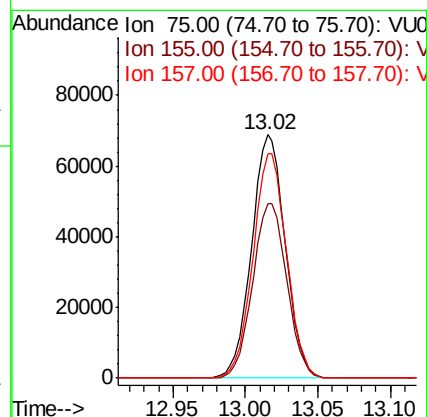
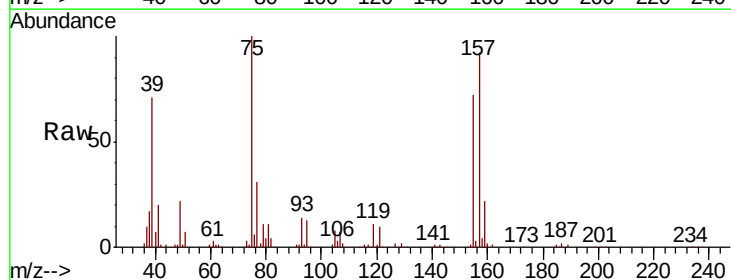
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

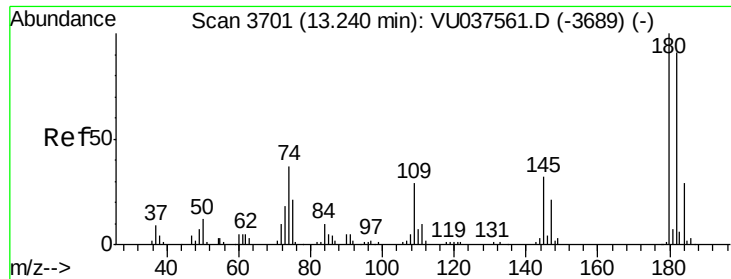
Tot Ion:146 Resp: 441569
 Ion Ratio Lower Upper
 146 100
 111 45.7 35.6 53.4
 148 63.8 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 185.865 ug/L
 RT: 13.02 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion: 75 Resp: 111307
 Ion Ratio Lower Upper
 75 100
 155 71.7 56.6 85.0
 157 92.1 72.4 108.6

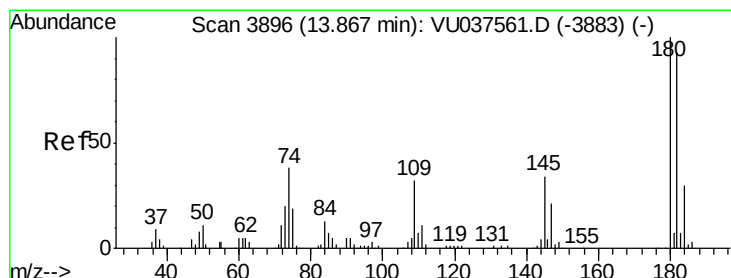
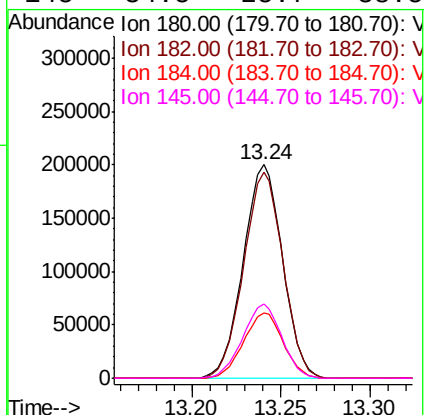
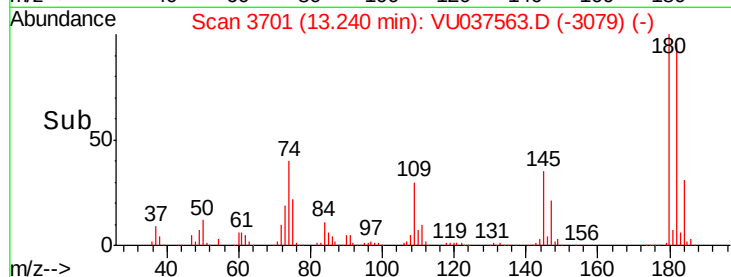
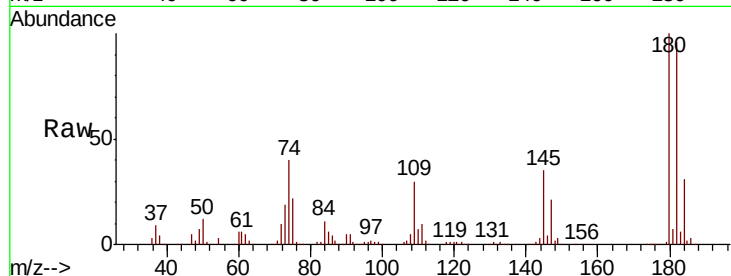




#67
 1,3,5-Trichlorobenzene
 Concen: 177.078 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

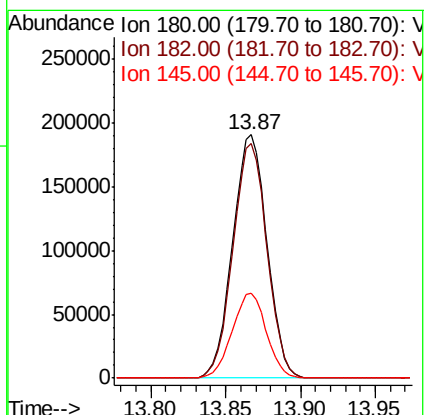
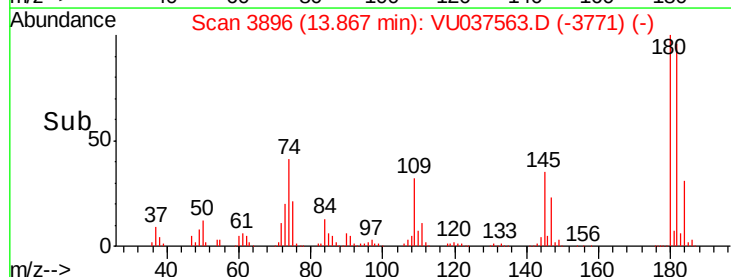
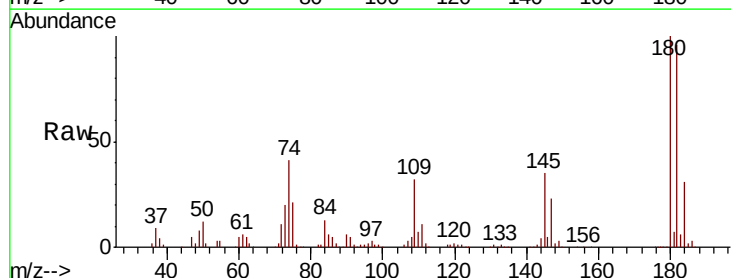
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20034

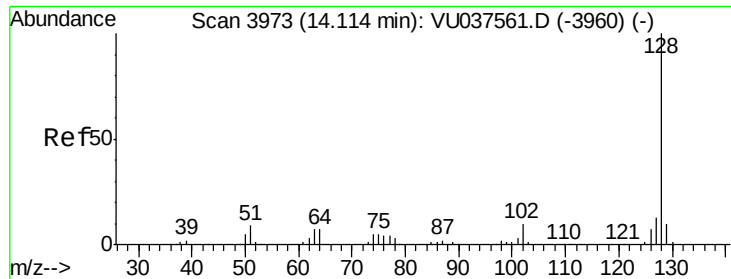
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	74.9	112.3
184	30.9	23.6	35.4
145	34.5	25.7	38.5



#68
 1,2,4-trichlorobenzene
 Concen: 182.704 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037563.D
 Acq: 03 Apr 2020 11:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	74.4	111.6
145	34.7	26.9	40.3





#69

Naphthalene

Concen: 166.255 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Instrument :

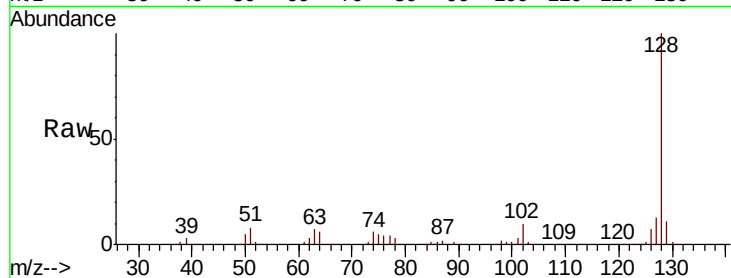
MSVOA_U

ClientSampleId :

VSTD20034

Tot Ion:128 Resp: 1175174

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	11.0	8.5	12.7

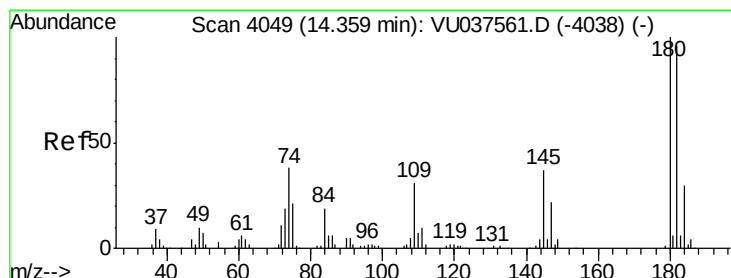
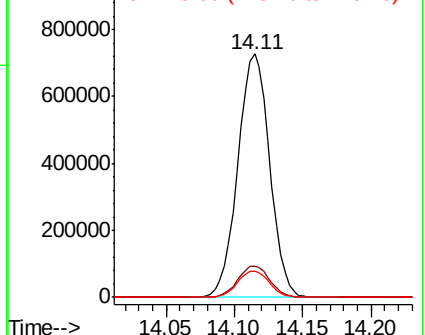
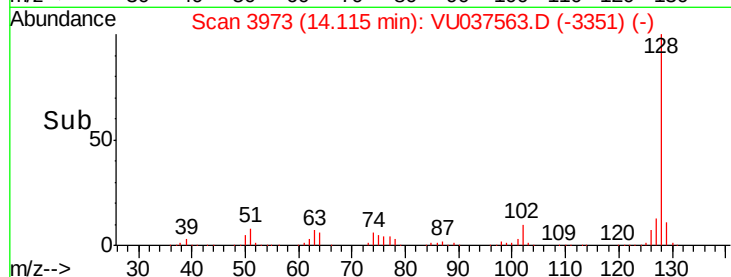


Abundance

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: 179.174 ug/L

RT: 14.36 min Scan# 4049

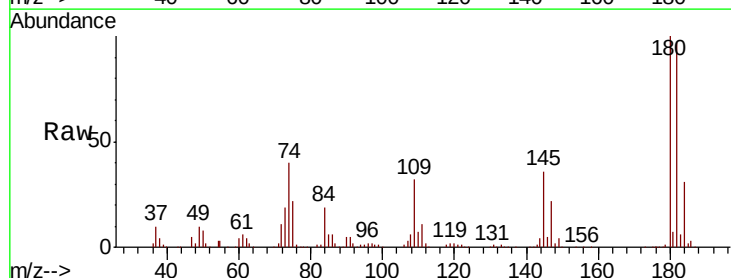
Delta R.T. 0.00 min

Lab File: VU037563.D

Acq: 03 Apr 2020 11:40

Tgt Ion:180 Resp: 301998

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.0	114.0
145	35.9	29.0	43.6



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

