

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032120\
 Data File : VU037363.D
 Acq On : 21 Mar 2020 18:58
 Operator : JC/MD
 Sample : VSTD10031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 23 04:03:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 23 04:00:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	288325	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	288376	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	151128	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	279433	120.84	ug/L	0.00
7) Chloroethane-d5	1.92	69	220820	119.93	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	444601	107.65	ug/L	0.00
21) 2-Butanone-d5	4.66	46	397510	224.64	ug/L	0.00
24) Chloroform-d	5.10	84	477562	111.15	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	329278	105.60	ug/L	0.00
32) Benzene-d6	5.76	84	860923	107.77	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	272650	104.95	ug/L	0.00
41) Toluene-d8	7.92	98	840350	109.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	157197	110.17	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	319172	234.48	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	433860	107.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	337380	107.22	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	308075	102.988	ug/L	98
3) Chloromethane	1.54	50	291909	116.039	ug/L	100
5) Vinyl chloride	1.62	62	281543	105.435	ug/L	99
6) Bromomethane	1.86	94	138354	129.708	ug/L	98
8) Chloroethane	1.94	64	155126	100.202	ug/L	99
9) Trichlorofluoromethane	2.15	101	394964	97.926	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	183265	97.804	ug/L	99
12) 1,1-Dichloroethene	2.60	96	176022	102.632	ug/L	93
13) Acetone	2.65	43	230030	145.826	ug/L	98
14) Carbon disulfide	2.82	76	575187	114.869	ug/L	100
15) Methyl Acetate	2.98	43	249390	96.006	ug/L	100
16) Methylene chloride	3.08	84	208424	98.677	ug/L	99
17) trans-1,2-Dichloroethene	3.38	96	187949	104.829	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	677117	99.665	ug/L	99
19) 1,1-Dichloroethane	3.91	63	372063	94.885	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	213993	99.965	ug/L	96
22) 2-Butanone	4.74	43	371510	181.306	ug/L	99
23) Bromochloromethane	5.02	128	114665	104.299	ug/L	96
25) Chloroform	5.13	83	404619	94.941	ug/L	100
27) 1,2-Dichloroethane	5.83	62	355560	94.689	ug/L	98
29) Cyclohexane	5.42	56	317810	94.179	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	372686	97.510	ug/L	99
31) Carbon tetrachloride	5.56	117	329264	97.641	ug/L	99
33) Benzene	5.81	78	822642	97.595	ug/L	100
34) Trichloroethene	6.57	95	212706	96.419	ug/L	99
35) Methylcyclohexane	6.79	83	328766	98.534	ug/L	99
37) 1,2-Dichloropropane	6.82	63	222670	93.654	ug/L	99
38) Bromodichloromethane	7.13	83	311544	93.584	ug/L	100
39) cis-1,3-Dichloropropene	7.63	75	368373	100.209	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	739200	191.793	ug/L	99

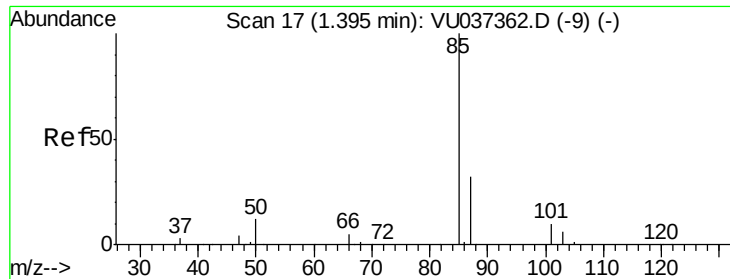
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032120\
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 Quant Title : VOC Analysis
 QLast Update : Mon Mar 23 04:00:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	910427	98.543	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	378919	106.981	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	217667	99.384	ug/L	97
46) Tetrachloroethene	8.57	164	170025	102.649	ug/L	98
48) 2-Hexanone	8.71	43	606476	200.267	ug/L	96
49) Dibromochloromethane	8.83	129	262586	101.647	ug/L	100
50) 1,2-Dibromoethane	8.95	107	242851	102.434	ug/L	99
51) Chlorobenzene	9.47	112	574335	98.574	ug/L	99
52) Ethylbenzene	9.59	91	1031343	97.154	ug/L	99
53) m,p-Xylene	9.71	106	378020	100.177	ug/L	99
54) o-xylene	10.12	106	378714	101.334	ug/L	99
55) Styrene	10.13	104	658607	103.901	ug/L	96
56) Isopropylbenzene	10.50	105	1024056	98.973	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	389034	97.909	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	322801	97.621	ug/L	99
61) Bromoform	10.31	173	217259	103.385	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	470571	98.949	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	468024	97.811	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	469739	96.804	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	109705	103.194	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	338232	98.492	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	288216	107.896	ug/L	100
69) Naphthalene	14.11	128	909494	191.833	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	293924	104.263	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 102.988 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

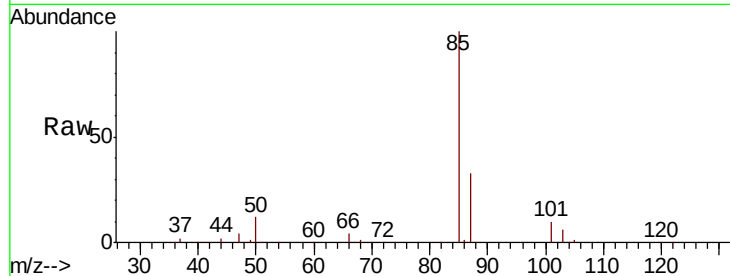
ClientSampleId :

Tot Ion: 85 Resp: 308075

Ion Ratio Lower Upper

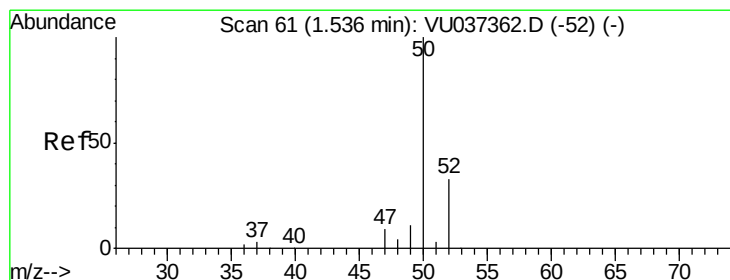
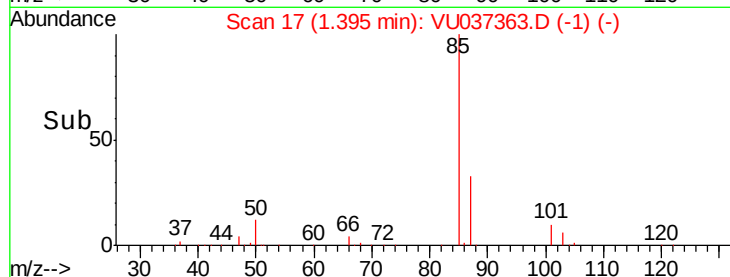
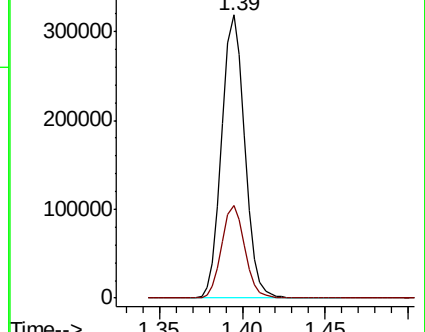
85 100

87 32.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU037362.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037363.D (-1) (-)



#3

Chloromethane

Concen: 116.039 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037363.D

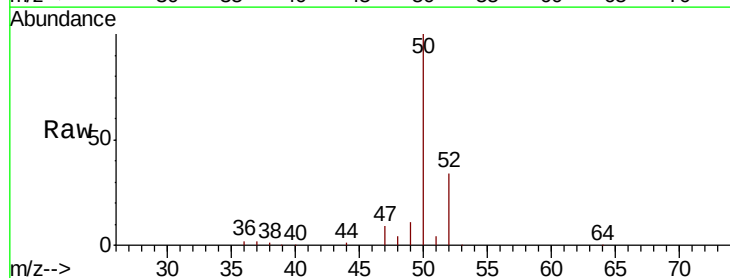
Acq: 21 Mar 2020 18:58

Tgt Ion: 50 Resp: 291909

Ion Ratio Lower Upper

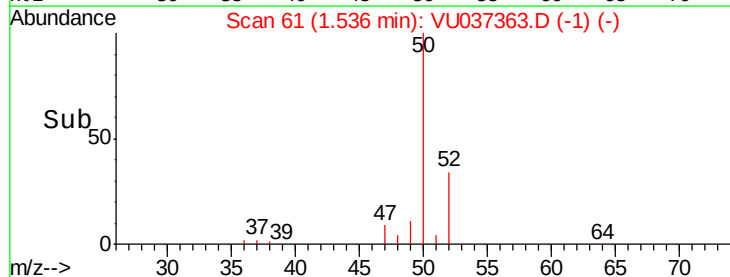
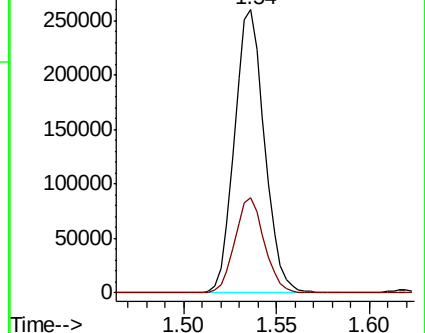
50 100

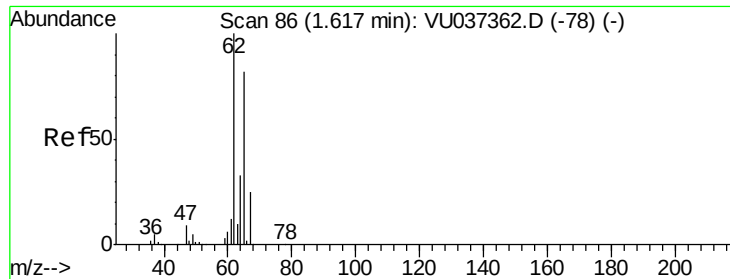
52 33.6 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU037362.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037363.D (-1) (-)





#5

Vinyl chloride

Concen: 105.435 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

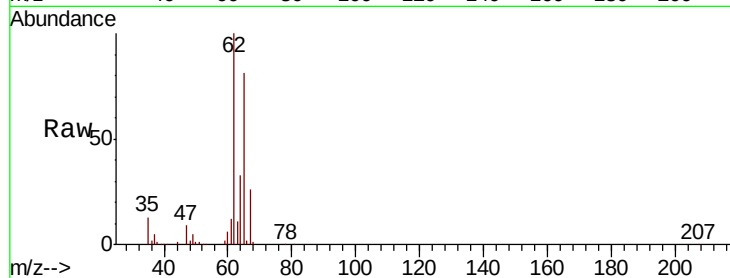
ClientSampled :

Tot Ion: 62 Resp: 281543

Ion Ratio Lower Upper

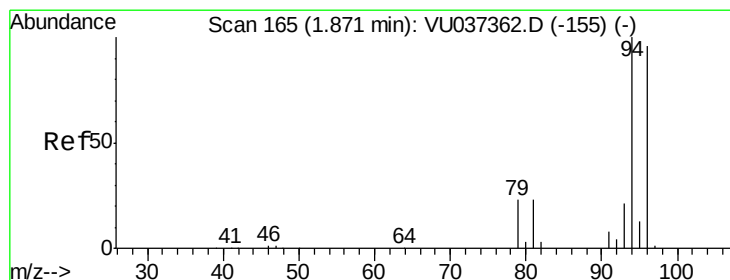
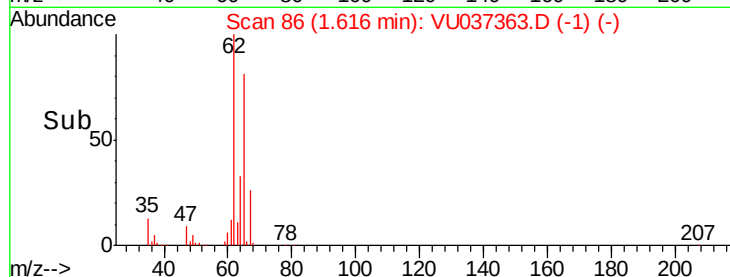
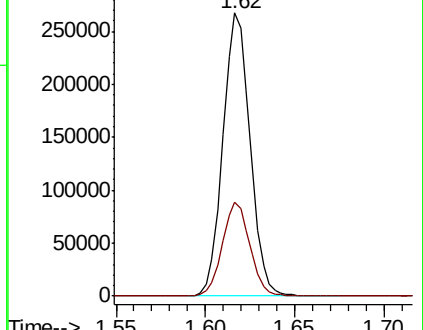
62 100

64 33.2 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU037363.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037363.D (-1) (-)



#6

Bromomethane

Concen: 129.708 ug/L

RT: 1.86 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU037363.D

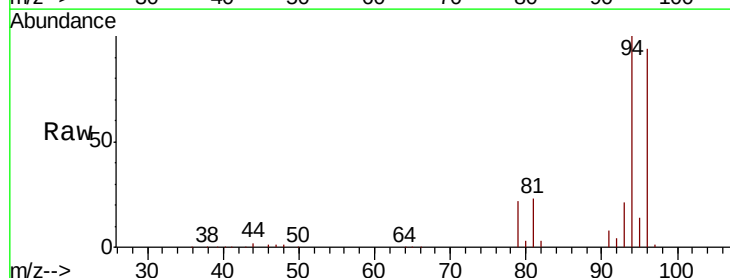
Acq: 21 Mar 2020 18:58

Tgt Ion: 94 Resp: 138354

Ion Ratio Lower Upper

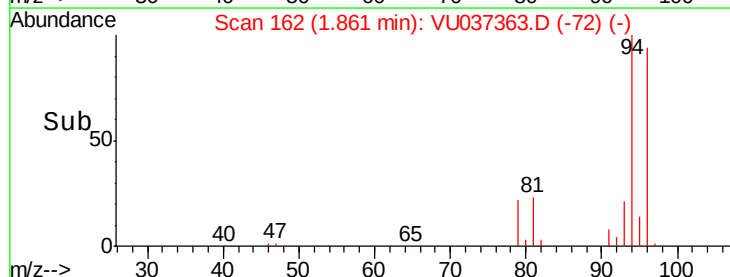
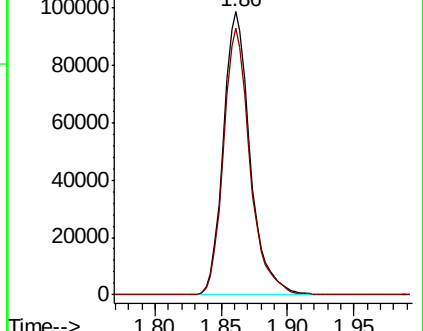
94 100

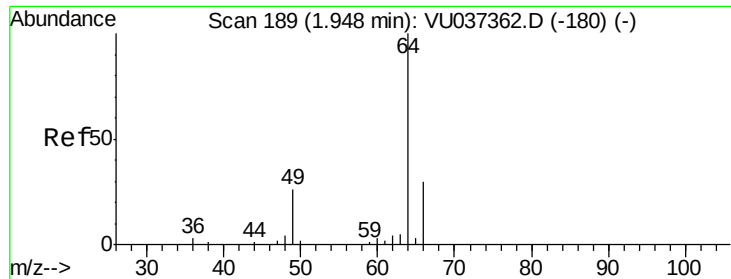
96 94.1 67.1 124.7



Abundance Ion 94.00 (93.70 to 94.70): VU037363.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU037363.D (-72) (-)

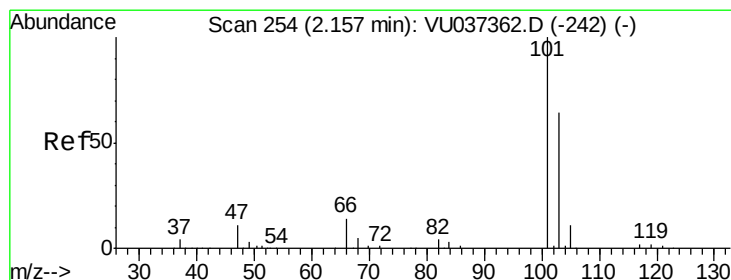
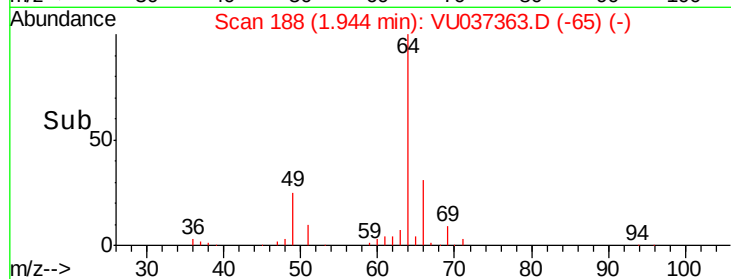
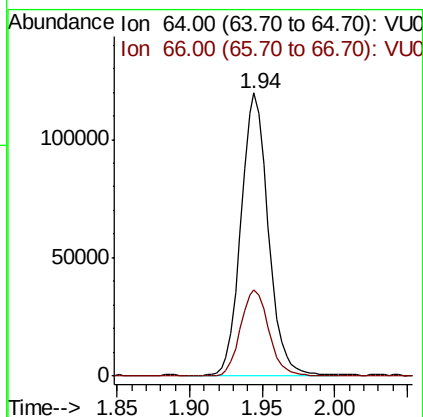
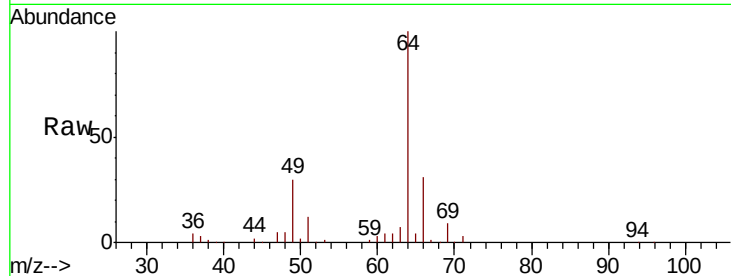




#8
 Chloroethane
 Concen: 100.202 ug/L
 RT: 1.94 min Scan# 188
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

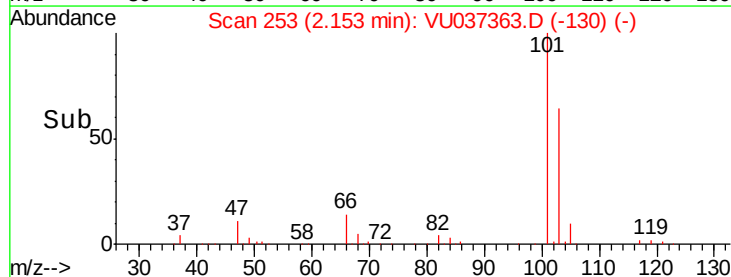
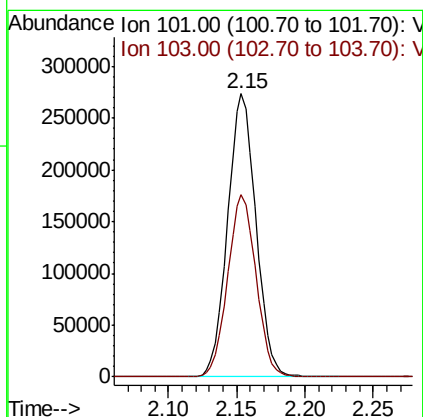
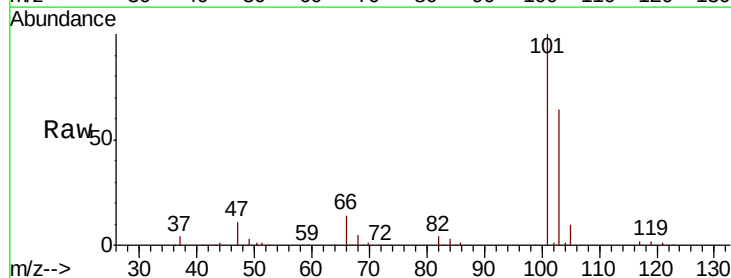
Instrument :
 MSVOA_U
 ClientSampleId :

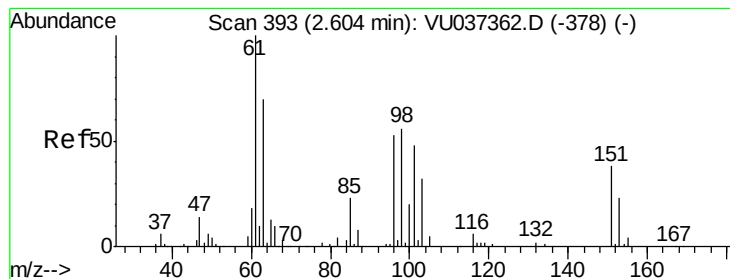
Tot Ion: 64 Resp: 155126
 Ion Ratio Lower Upper
 64 100
 66 30.6 21.1 39.3



#9
 Trichlorofluoromethane
 Concen: 97.926 ug/L
 RT: 2.15 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion:101 Resp: 394964
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.0 76.4





#10

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

Concen: 97.804 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

ClientSampleId :

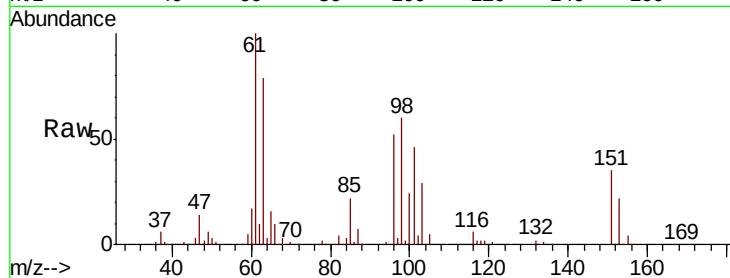
Tot Ion:101 Resp: 183265

Ion Ratio Lower Upper

101 100

85 47.3 37.6 56.4

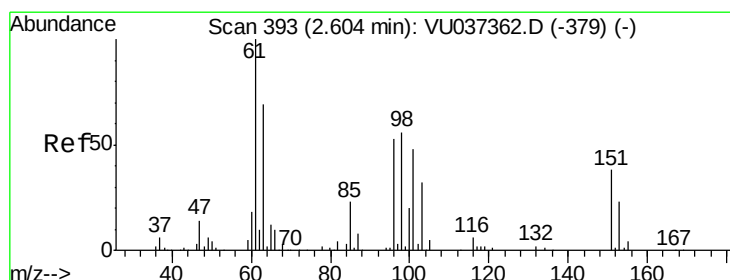
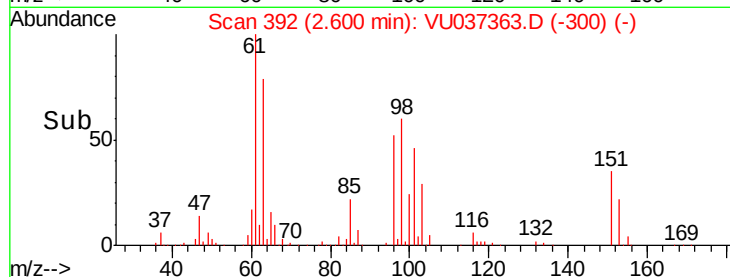
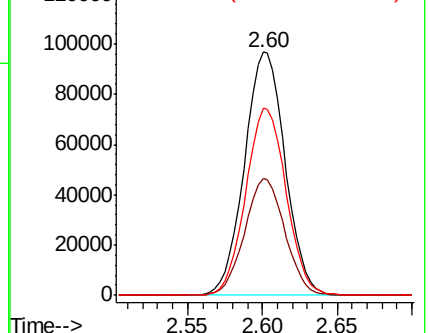
151 76.5 62.2 93.4



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: 102.632 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

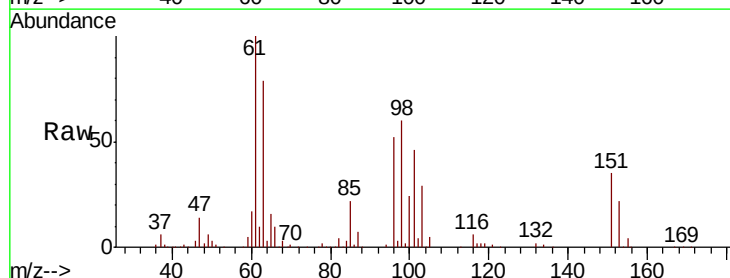
Tgt Ion: 96 Resp: 176022

Ion Ratio Lower Upper

96 100

61 193.2 133.4 247.8

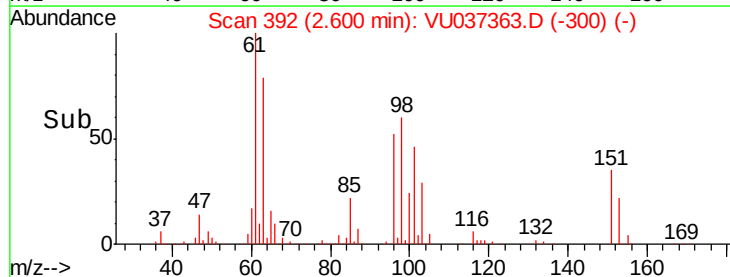
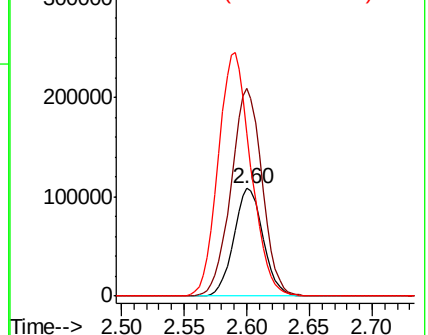
63 152.0 94.4 175.2

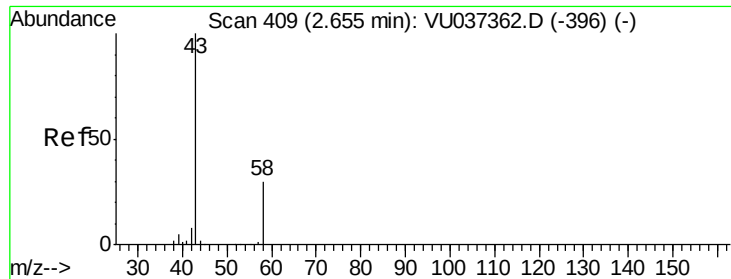


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 145.826 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

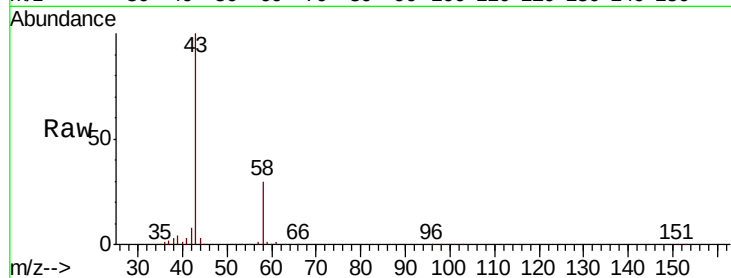
ClientSampleId :

Tot Ion: 43 Resp: 230030

Ion Ratio Lower Upper

43 100

58 29.9 0.0 58.0



Abundance Ion 43.00 (42.70 to 43.70): VU037362.D (-396) (-)

Ion 58.00 (57.70 to 58.70): VU037362.D (-396) (-)

2.65

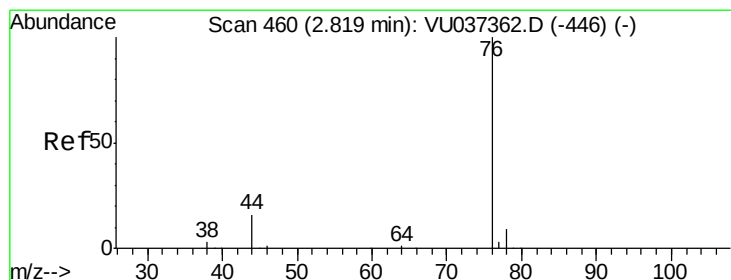
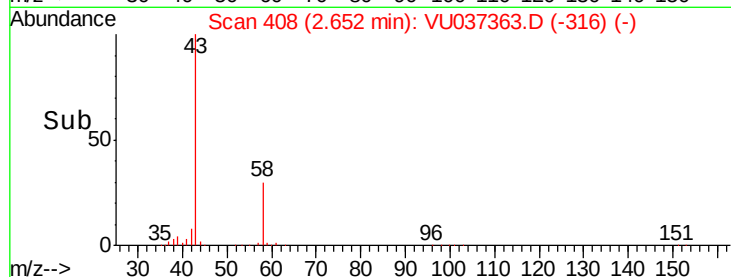
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 114.869 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.00 min

Lab File: VU037363.D

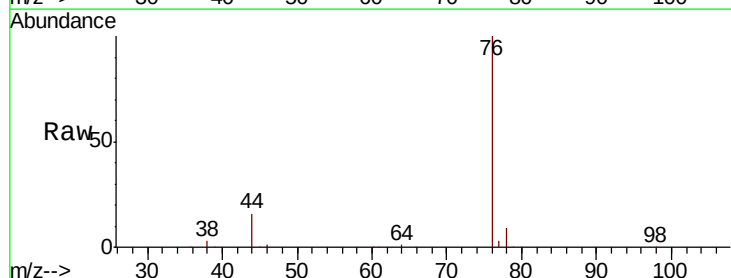
Acq: 21 Mar 2020 18:58

Tgt Ion: 76 Resp: 575187

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU037362.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037362.D (-446) (-)

2.82

400000

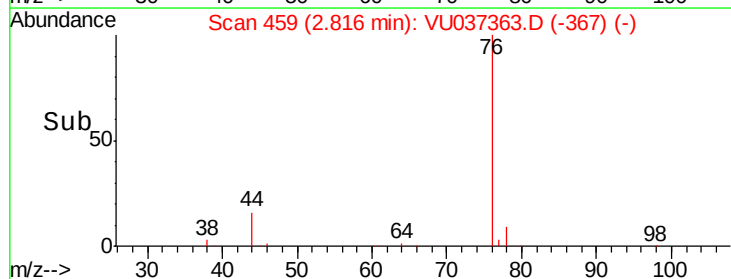
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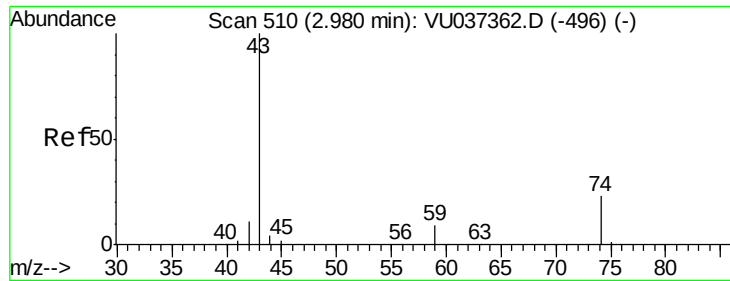
200000

100000

0

Time-->

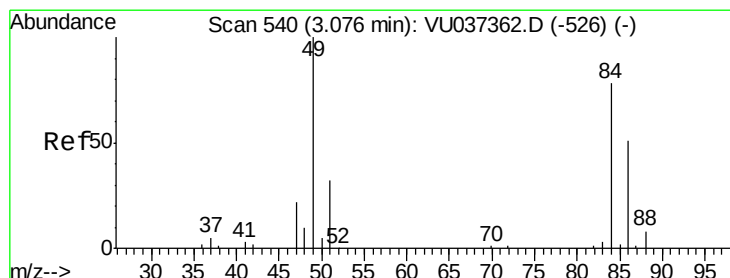
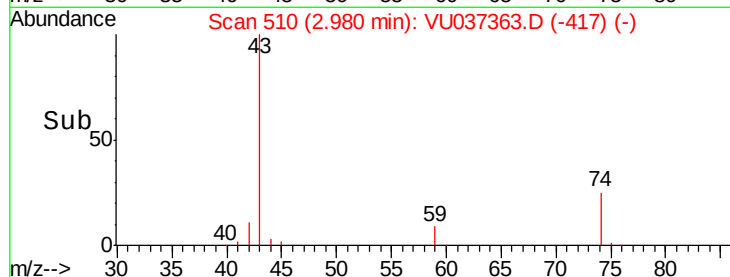
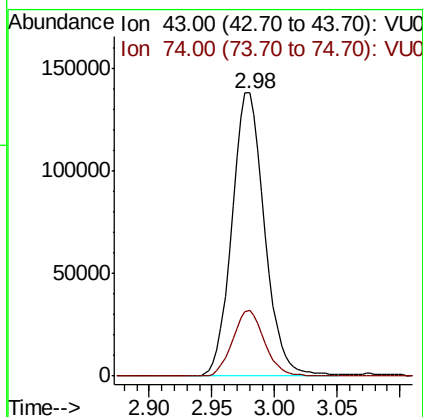
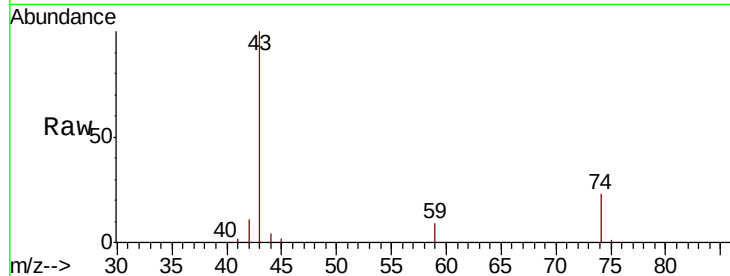




#15
Methvl Acetate
Concen: 96.006 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

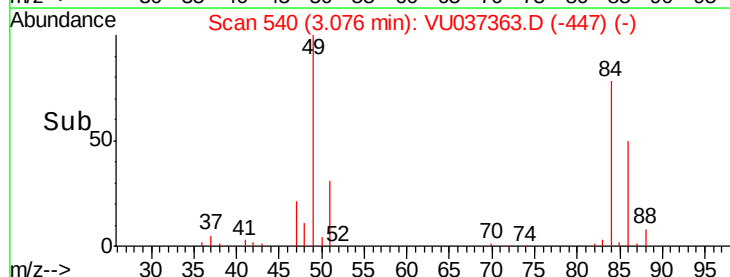
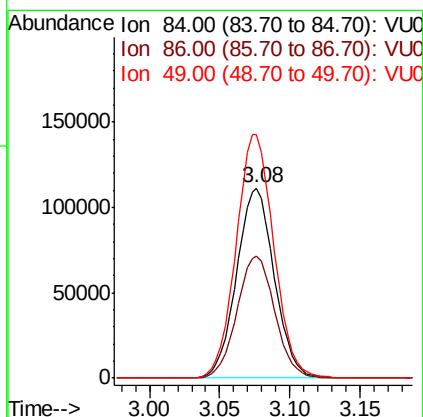
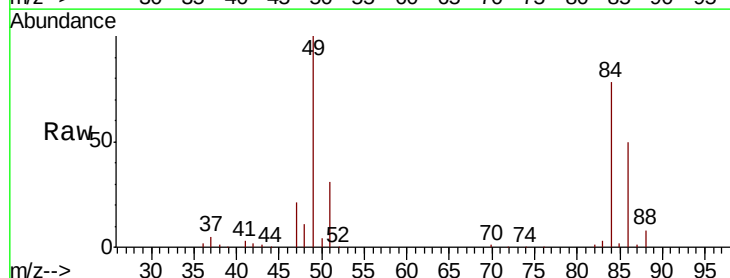
Instrument :
MSVOA_U
ClientSampled :

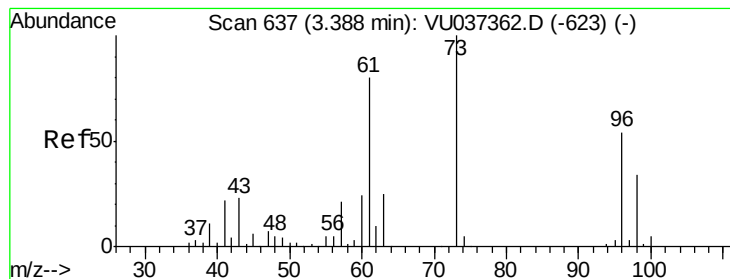
Tot Ion: 43 Resp: 249390
Ion Ratio Lower Upper
43 100
74 22.8 18.2 27.2



#16
Methylene chloride
Concen: 98.677 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion: 84 Resp: 208424
Ion Ratio Lower Upper
84 100
86 64.3 45.7 84.9
49 128.0 90.0 167.2





#17

trans-1,2-Dichloroethene

Concen: 104.829 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

ClientSampleId :

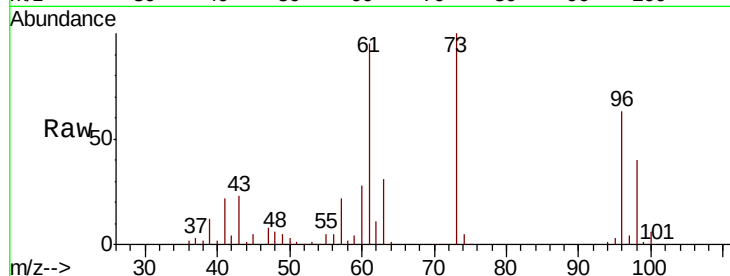
Tot Ion: 96 Resp: 187949

Ion Ratio Lower Upper

96 100

61 149.7 103.3 191.9

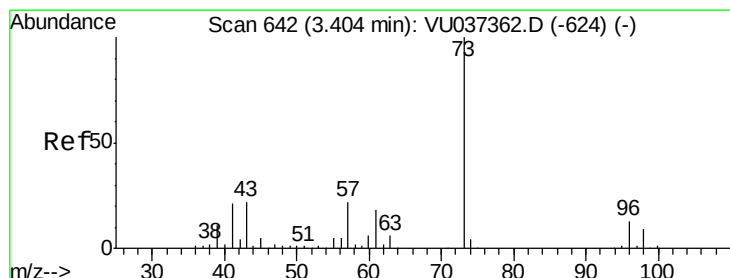
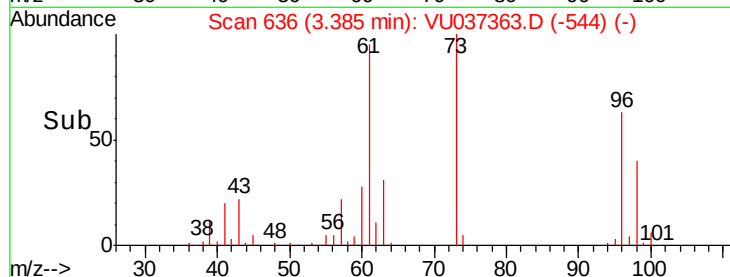
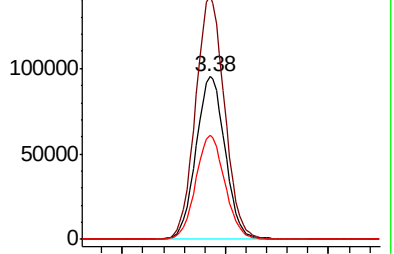
98 63.8 44.5 82.7



Abundance Ion 96.00 (95.70 to 96.70): VU037362.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU037362.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU037362.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 99.665 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

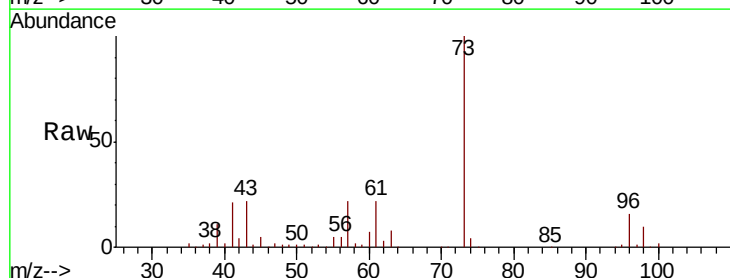
Tgt Ion: 73 Resp: 677117

Ion Ratio Lower Upper

73 100

43 22.1 18.2 27.2

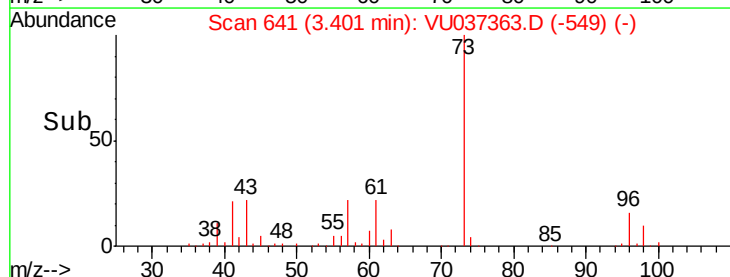
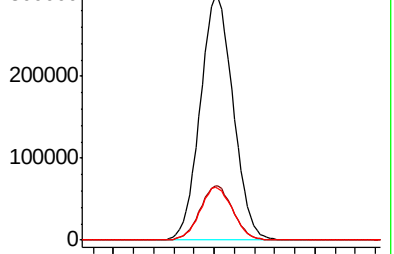
57 21.6 17.4 26.0

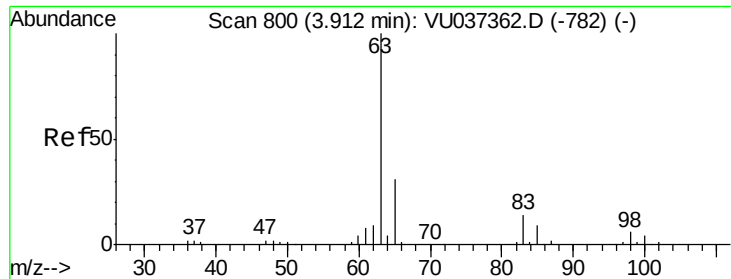


Abundance Ion 73.00 (72.70 to 73.70): VU037362.D (-624) (-)

Ion 43.00 (42.70 to 43.70): VU037362.D (-624) (-)

Ion 57.00 (56.70 to 57.70): VU037362.D (-624) (-)

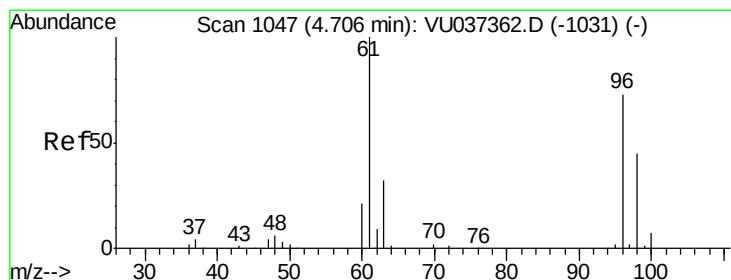
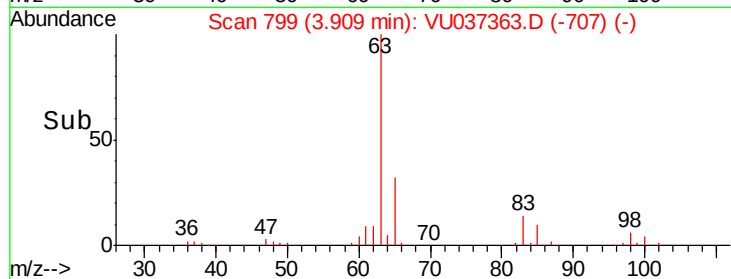
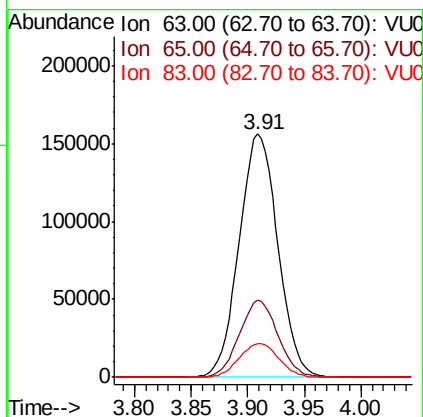
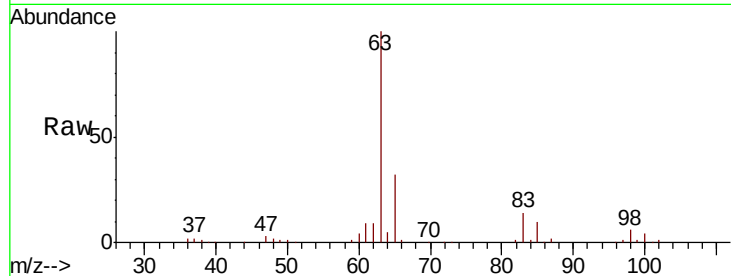




#19
 1,1-Dichloroethane
 Concen: 94.885 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

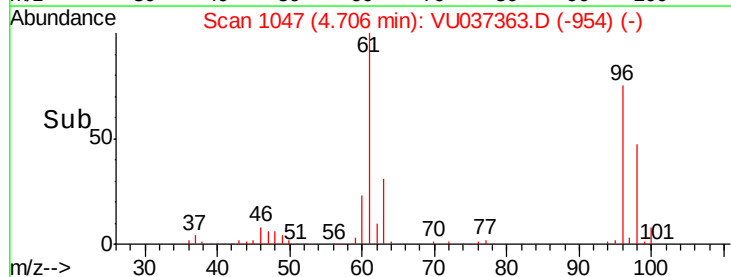
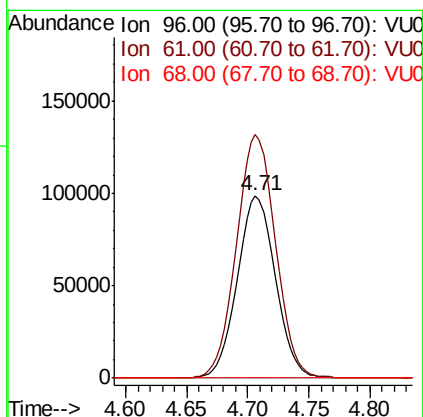
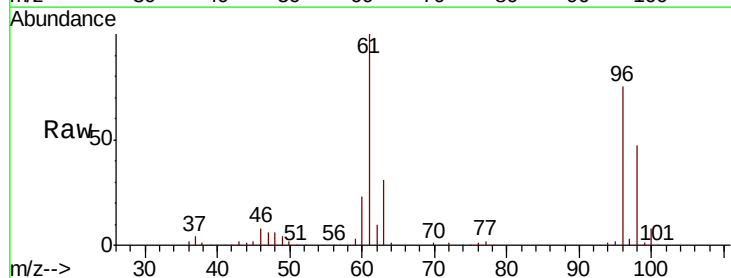
Instrument :
 MSVOA_U
 ClientSampleId :

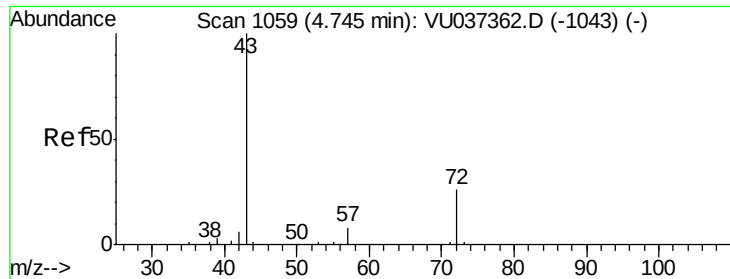
Tot Ion: 63 Resp: 372063
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.6 40.0
 83 13.9 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 99.965 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion: 96 Resp: 213993
 Ion Ratio Lower Upper
 96 100
 61 133.3 96.2 178.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 181.306 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

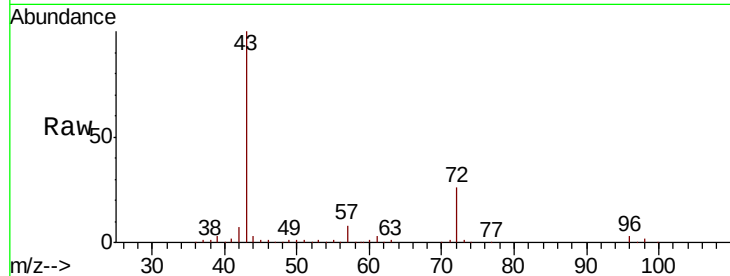
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 371510

Ion Ratio Lower Upper

43 100

72 26.8 13.2 39.5



Abundance Ion 43.00 (42.70 to 43.70): VU037363.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037363.D (-966) (-)

4.74

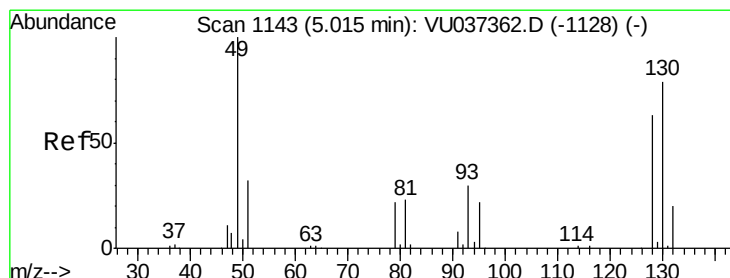
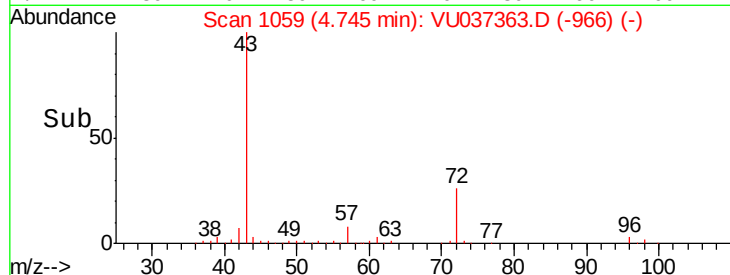
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 104.299 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Tgt Ion:128 Resp: 114665

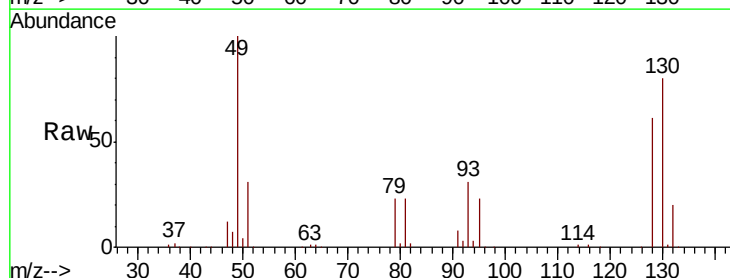
Ion Ratio Lower Upper

128 100

49 164.5 112.1 208.1

130 131.5 88.0 163.4

51 51.2 40.3 60.5



Abundance Ion 128.00 (127.70 to 128.70): VU037363.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU037363.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU037363.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU037363.D (-1050) (-)

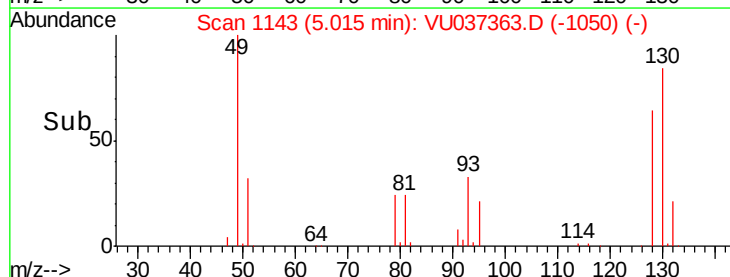
5.02

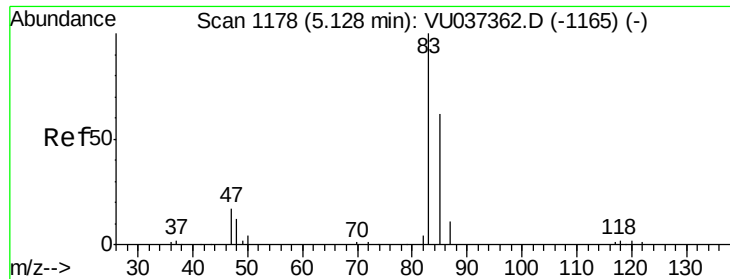
100000

50000

0

Time-->

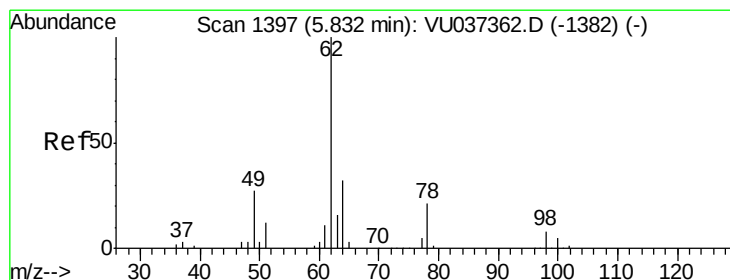
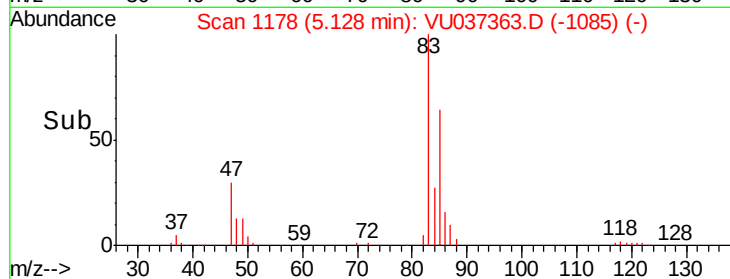
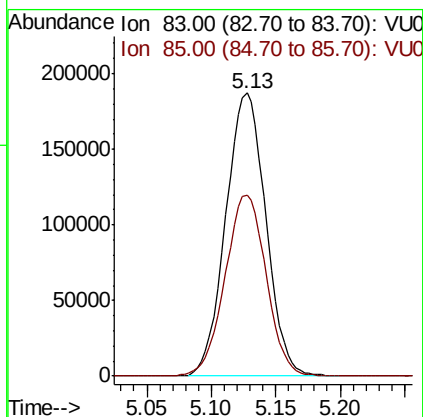
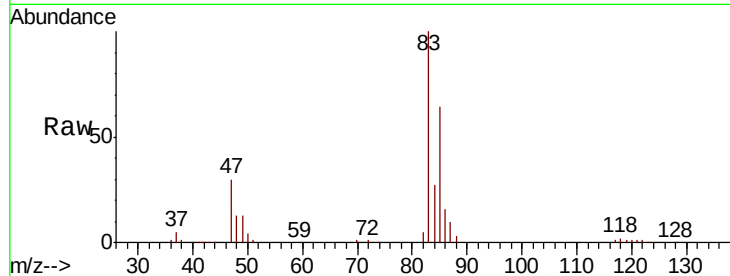




#25
Chloroform
Concen: 94.941 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

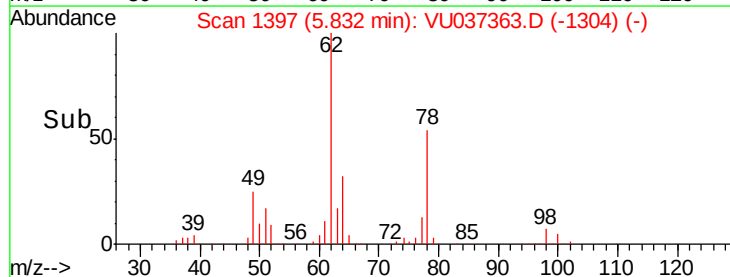
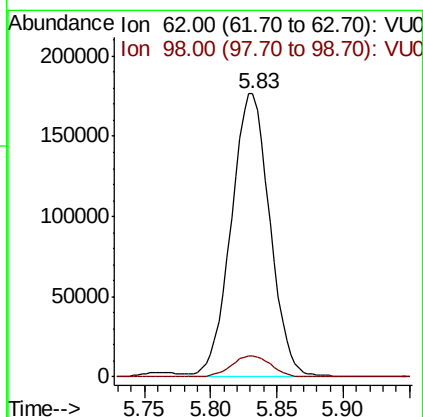
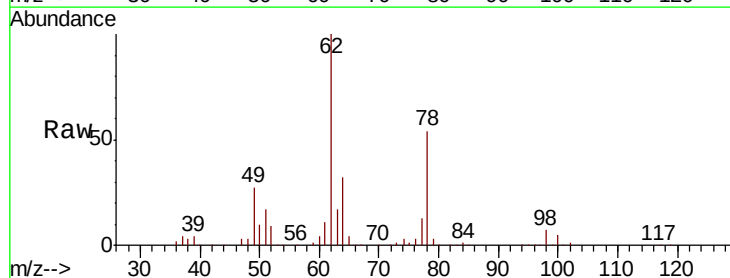
Instrument :
MSVOA_U
ClientSampleId :

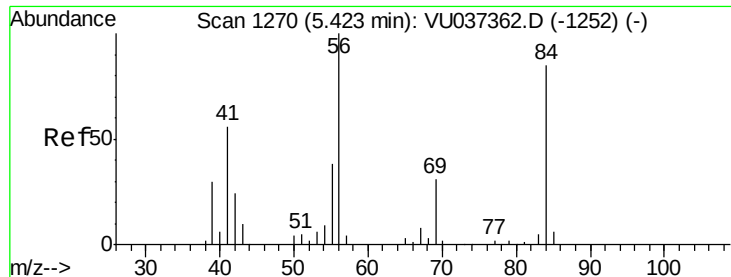
Tot Ion: 83 Resp: 404619
Ion Ratio Lower Upper
83 100
85 64.1 44.9 83.5



#27
1,2-Dichloroethane
Concen: 94.689 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion: 62 Resp: 355560
Ion Ratio Lower Upper
62 100
98 7.4 6.6 10.0

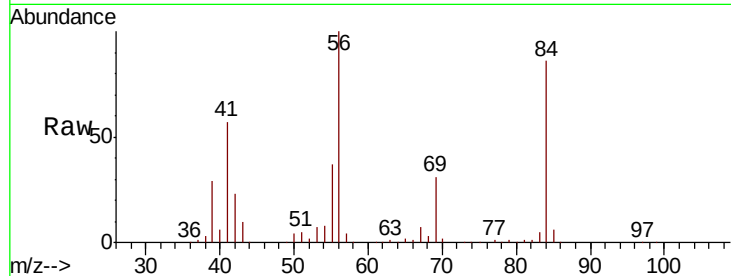




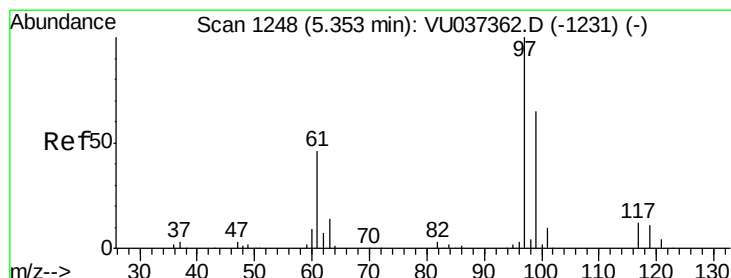
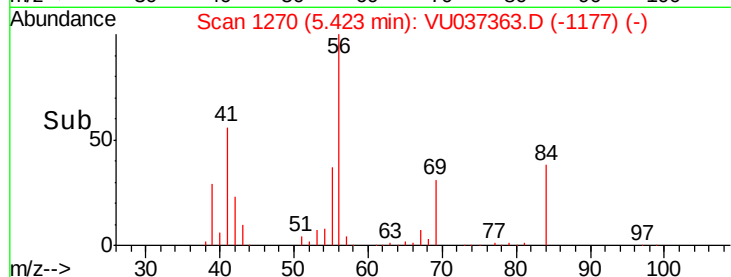
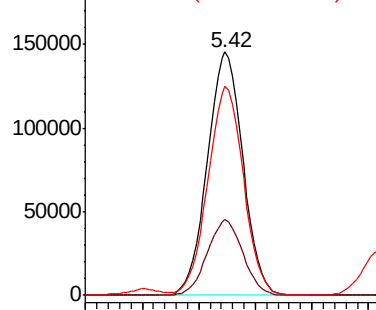
#29
Cyclohexane
Concen: 94.179 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 317810
Ion Ratio Lower Upper
56 100
69 31.1 24.8 37.2
84 85.7 68.2 102.4

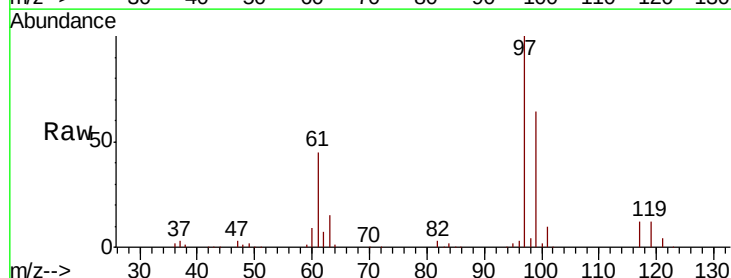


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

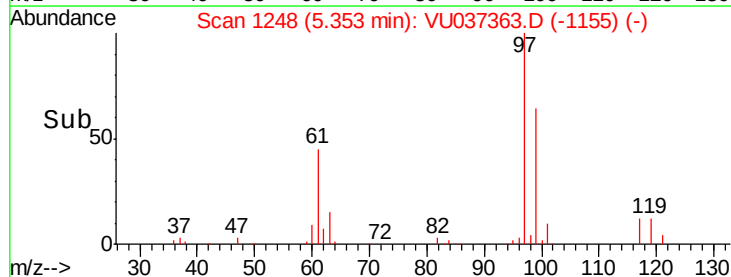
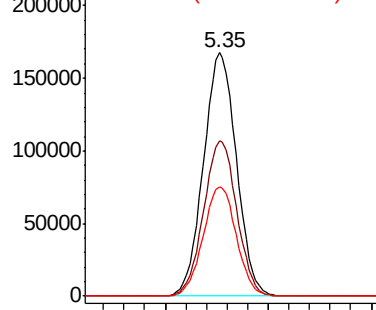


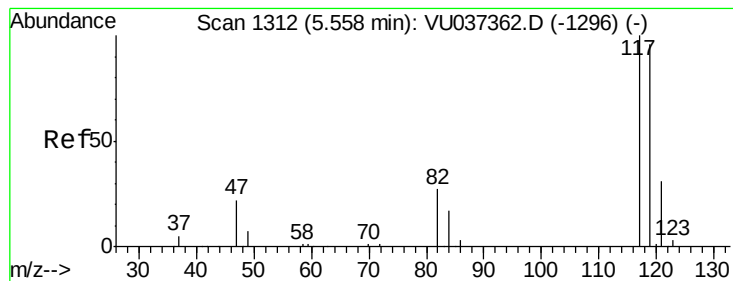
#30
1,1,1-Trichloroethane
Concen: 97.510 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion: 97 Resp: 372686
Ion Ratio Lower Upper
97 100
99 64.2 51.7 77.5
61 45.3 36.6 54.8



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 97.641 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

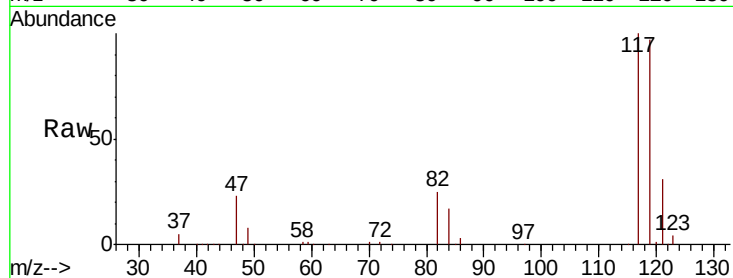
ClientSampleId :

Tot Ion:117 Resp: 329264

Ion Ratio Lower Upper

117 100

119 96.3 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

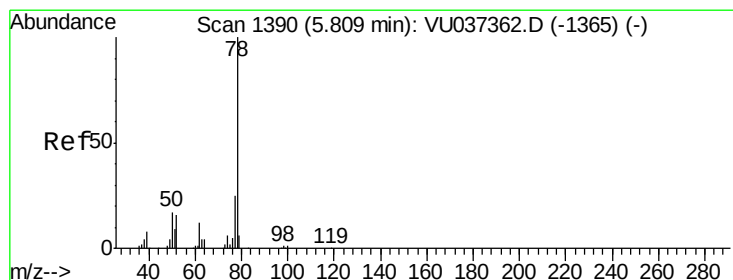
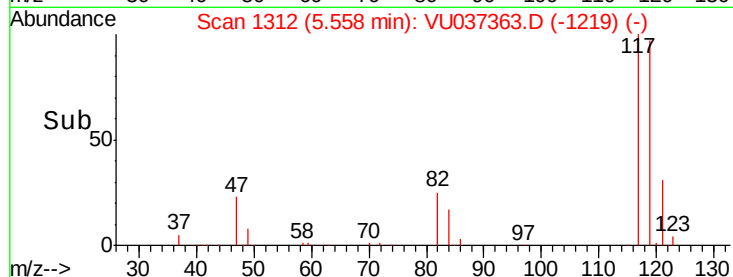
100000

50000

0

5.45 5.50 5.55 5.60 5.65

Time-->



#33

Benzene

Concen: 97.595 ug/L

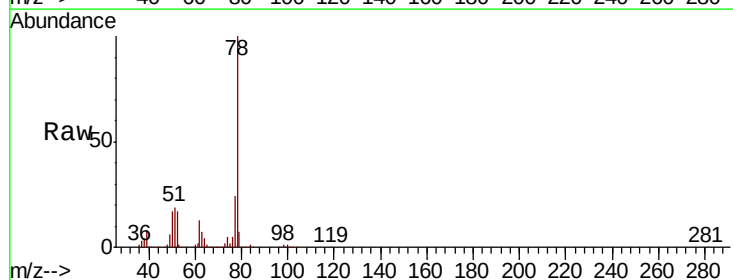
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Tgt Ion: 78 Resp: 822642



Abundance Ion 78.00 (77.70 to 78.70): VU0

400000

300000

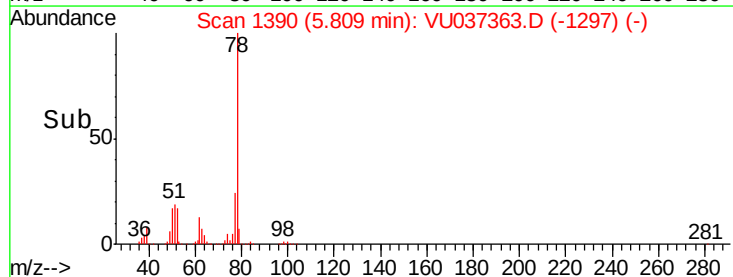
200000

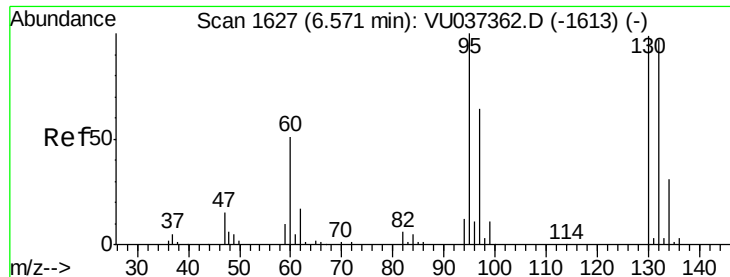
100000

0

5.70 5.80 5.90

Time-->

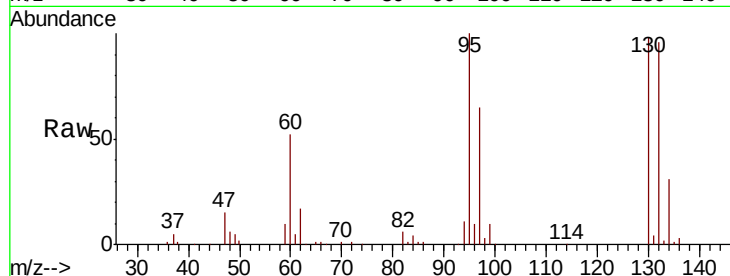




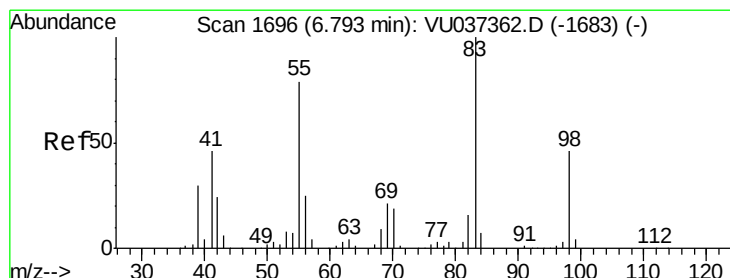
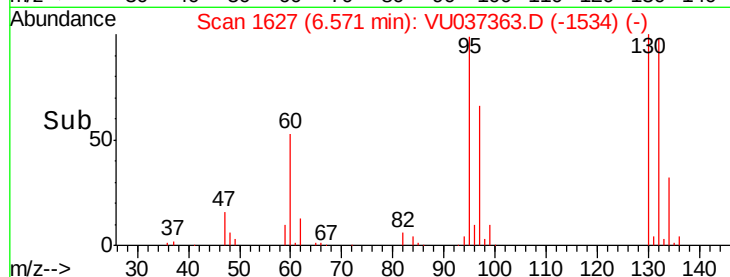
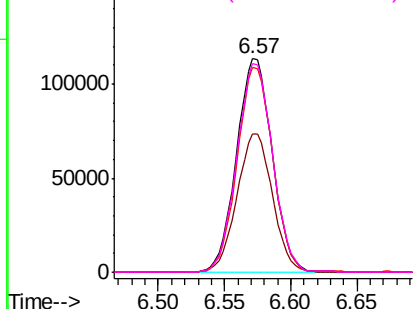
#34
 Trichloroethene
 Concen: 96.419 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 212706
 Ion Ratio Lower Upper
 95 100
 97 64.9 44.9 83.5
 132 96.1 68.0 126.2
 130 97.9 69.6 129.2

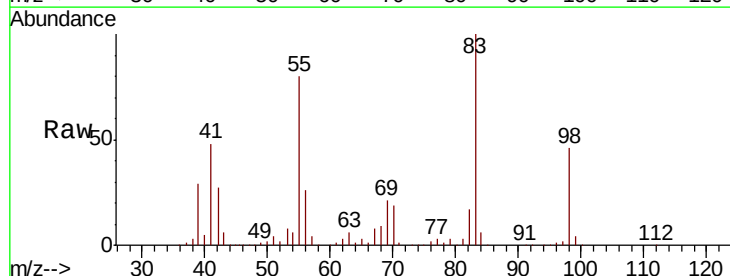


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

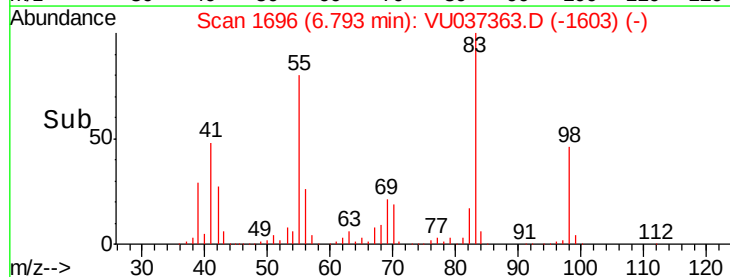
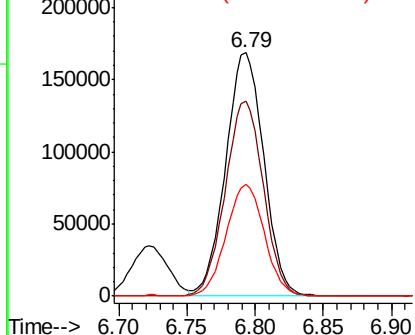


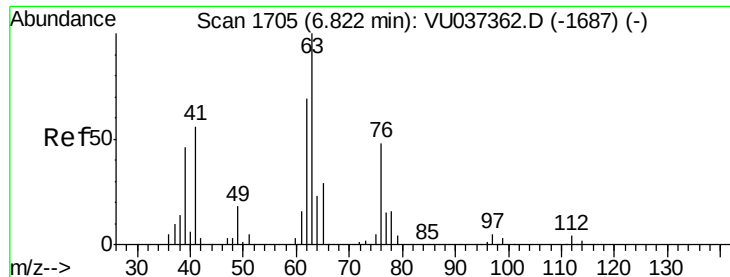
#35
 Methylcyclohexane
 Concen: 98.534 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion: 83 Resp: 328766
 Ion Ratio Lower Upper
 83 100
 55 79.9 64.3 96.5
 98 46.0 36.5 54.7



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: 93.654 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

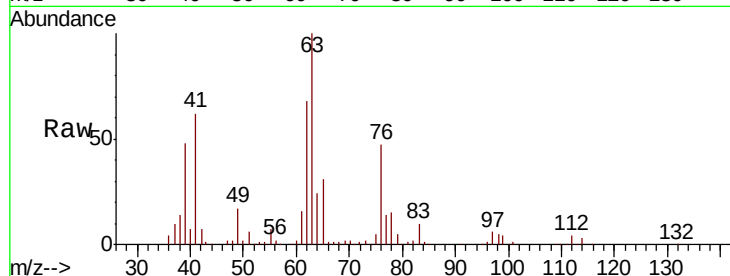
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 222670

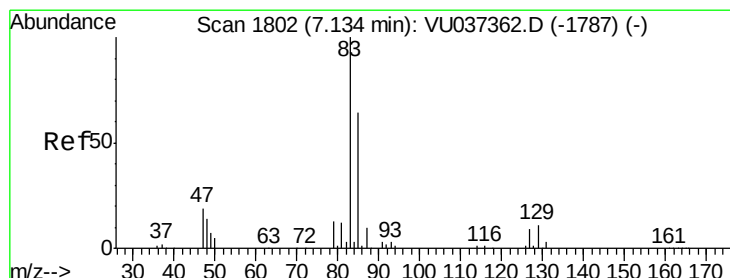
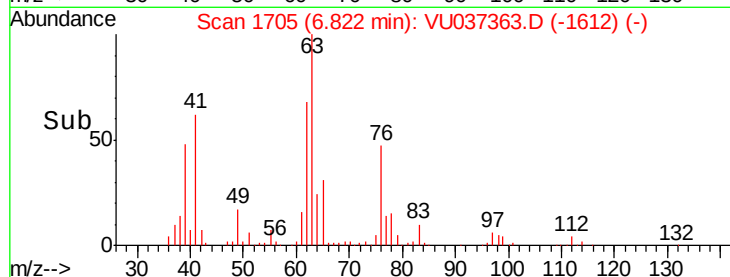
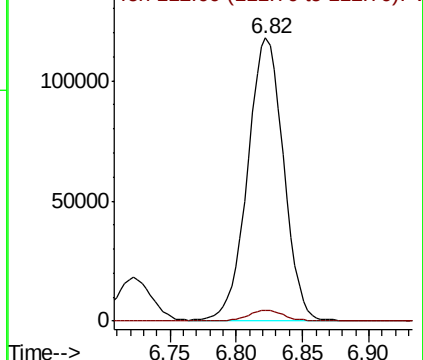
Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 93.584 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

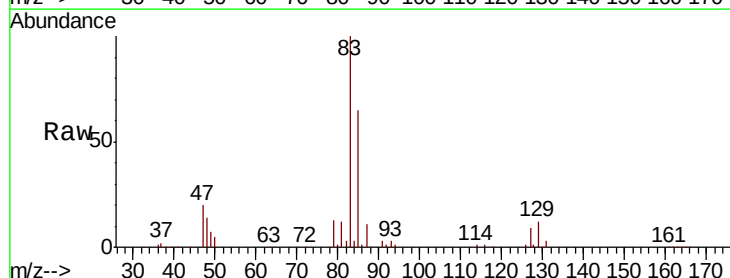
Tgt Ion: 83 Resp: 311544

Ion Ratio Lower Upper

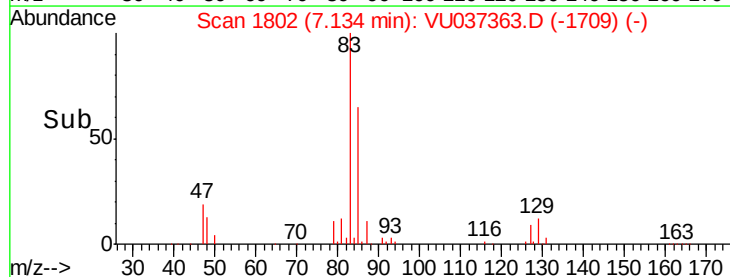
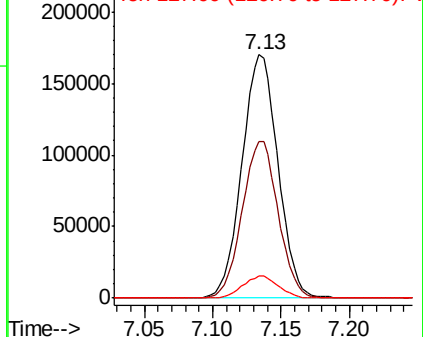
83 100

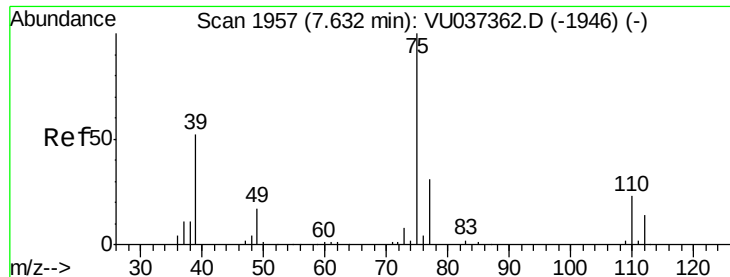
85 64.6 45.0 83.6

127 8.9 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 127.00 (126.70 to 127.70): V

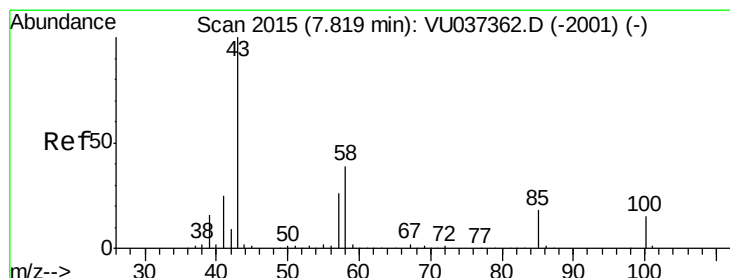
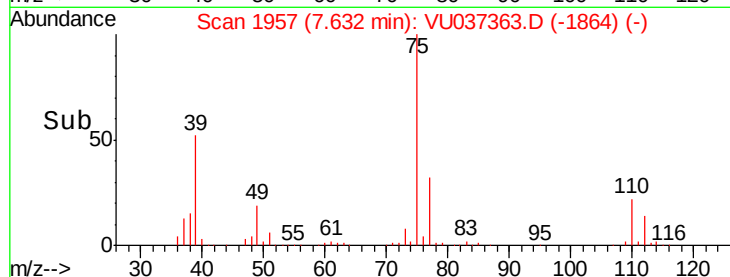
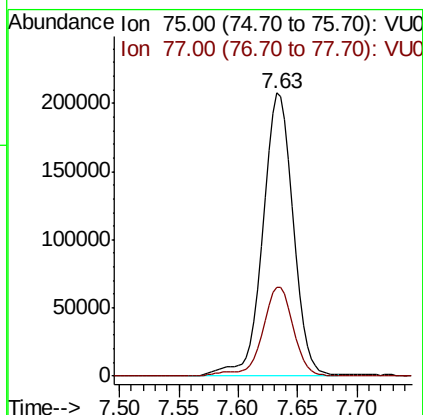
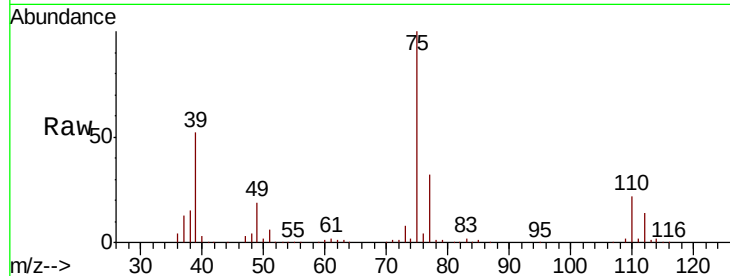




#39
 cis-1,3-Dichloropropene
 Concen: 100.209 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

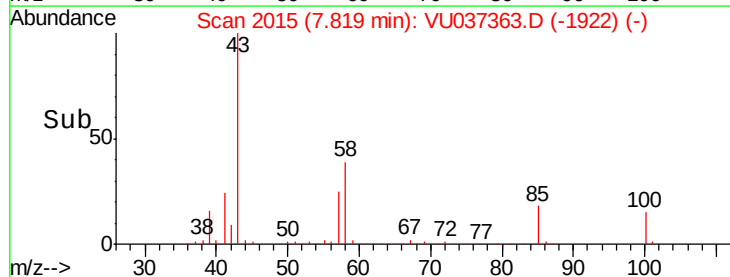
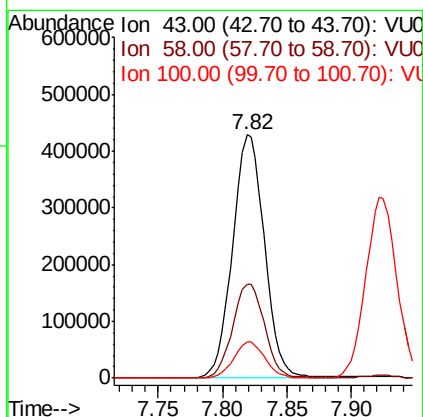
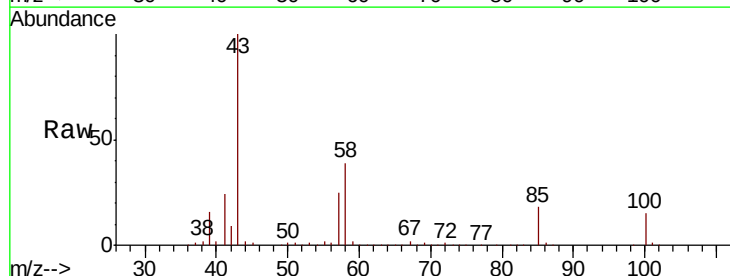
Instrument :
 MSVOA_U
 ClientSampleId :

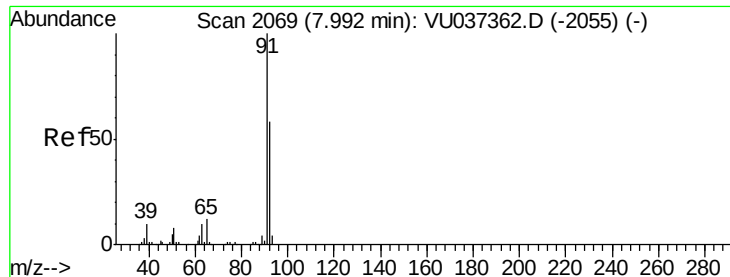
Tot Ion: 75 Resp: 368373
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 191.793 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion: 43 Resp: 739200
 Ion Ratio Lower Upper
 43 100
 58 38.8 30.7 46.1
 100 14.7 11.8 17.6





#42

Toluene

Concen: 98.543 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

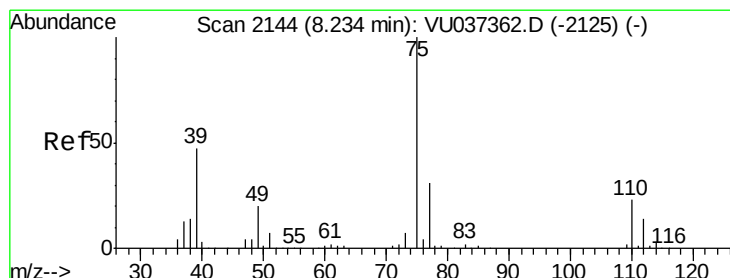
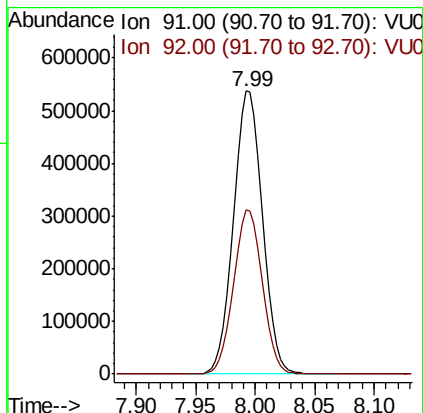
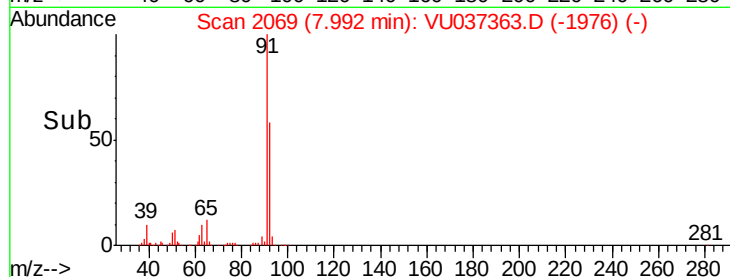
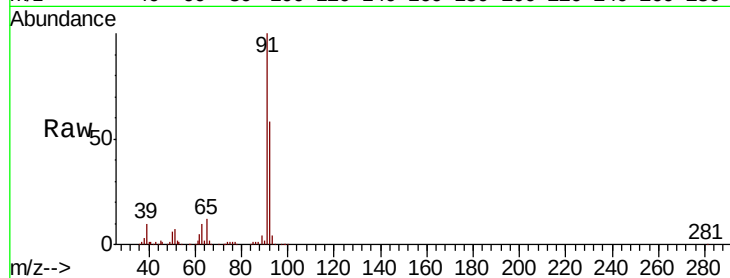
ClientSampleId :

Tot Ion: 91 Resp: 910427

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 106.981 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037363.D

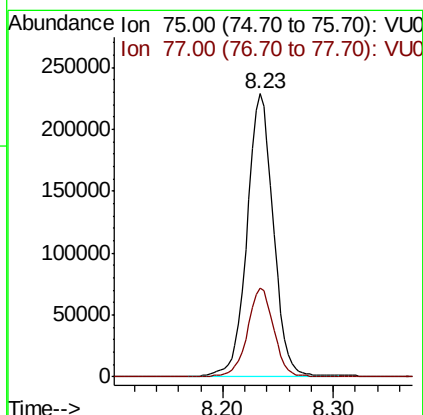
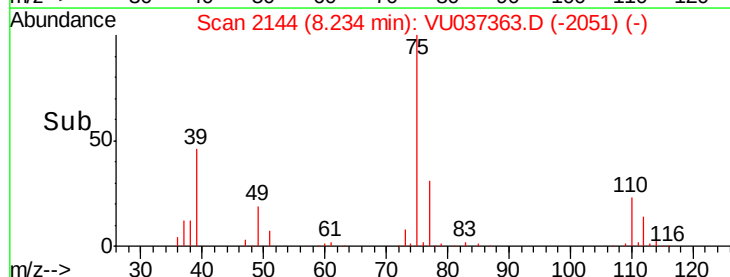
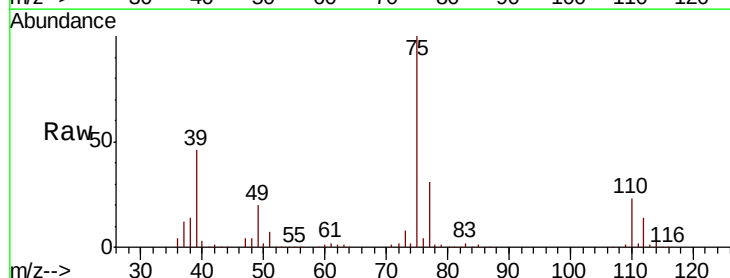
Acq: 21 Mar 2020 18:58

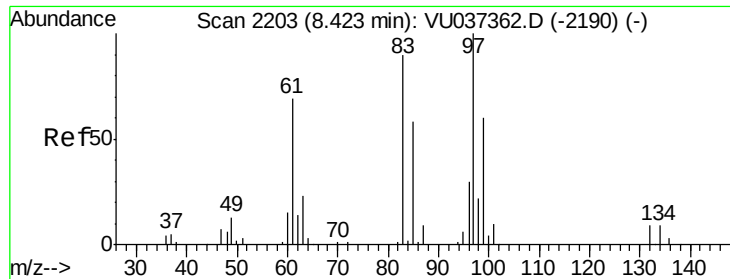
Tgt Ion: 75 Resp: 378919

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.4

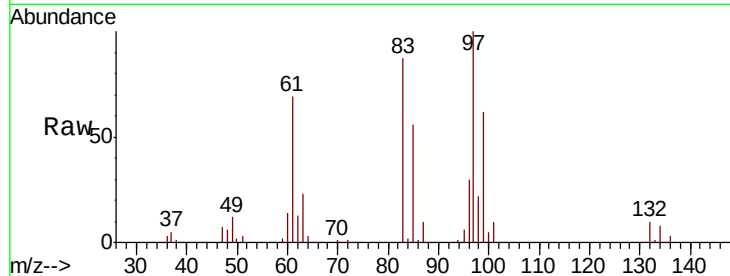




#45
 1,1,2-Trichloroethane
 Concen: 99.384 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	217667
Ion	Ratio	Lower	Upper
97	100		
99	62.4	42.1	78.1
83	86.7	62.7	116.5
85	56.1	40.7	75.5



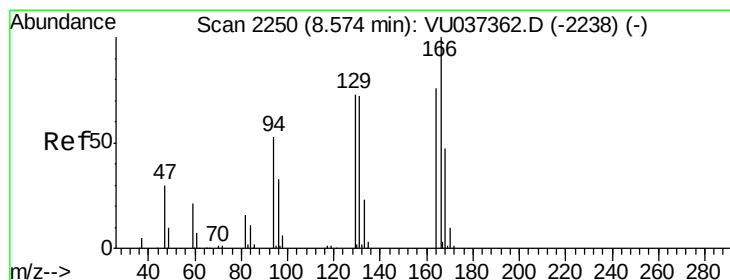
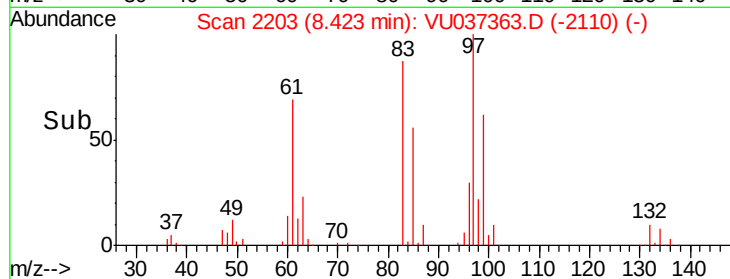
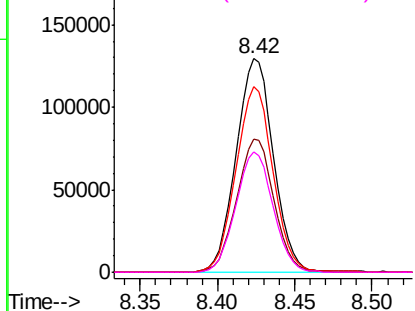
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

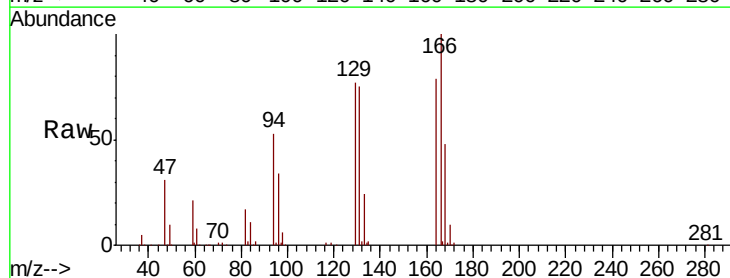
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 102.649 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion:	164	Resp:	170025
Ion	Ratio	Lower	Upper
164	100		
129	96.7	67.1	124.5
131	94.1	65.8	122.2
166	126.0	91.6	170.2



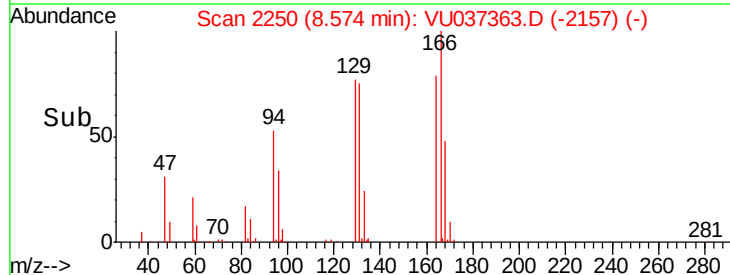
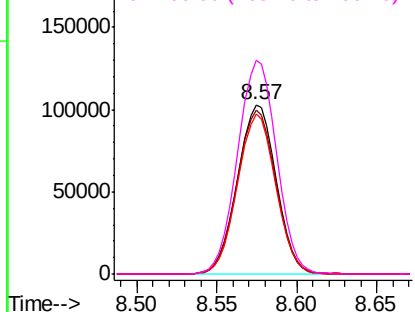
Abundance

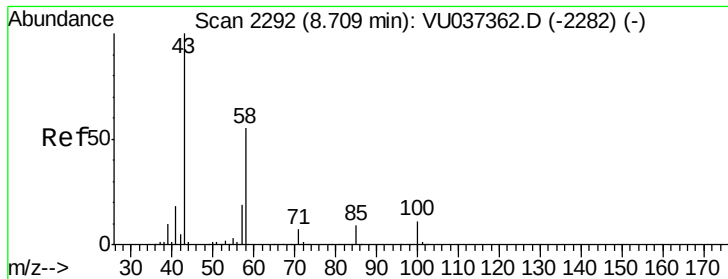
Ion 164.00 (163.70 to 164.70): V

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

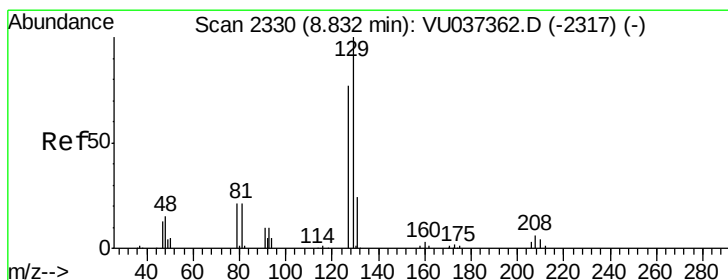
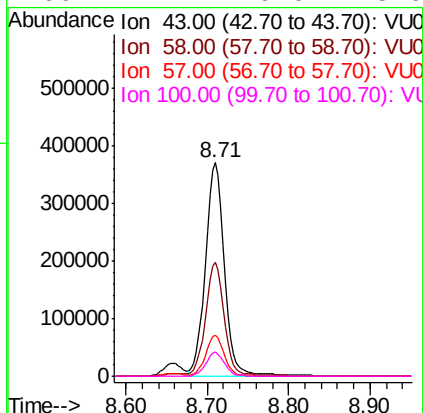
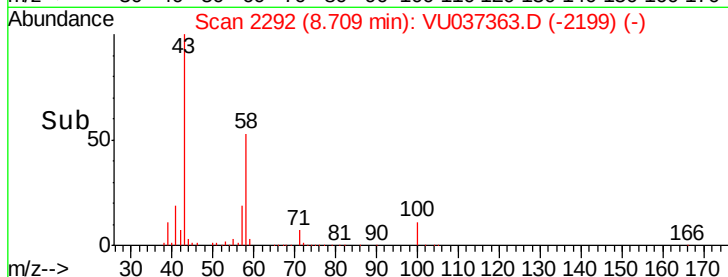
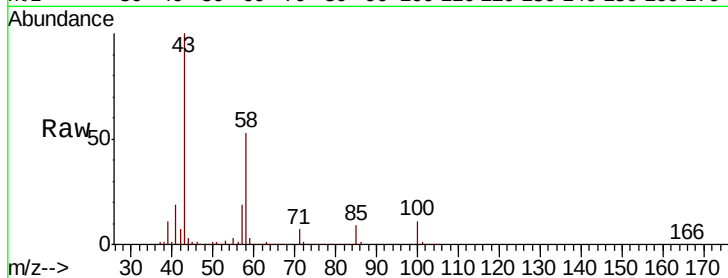




#48
2-Hexanone
Concen: 200.267 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

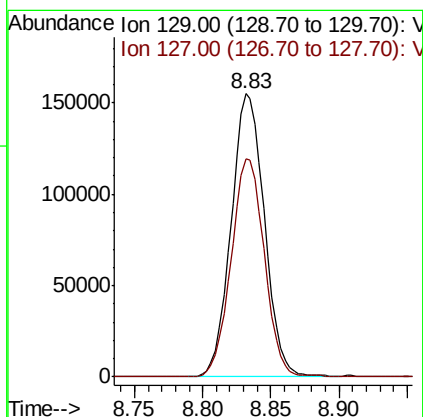
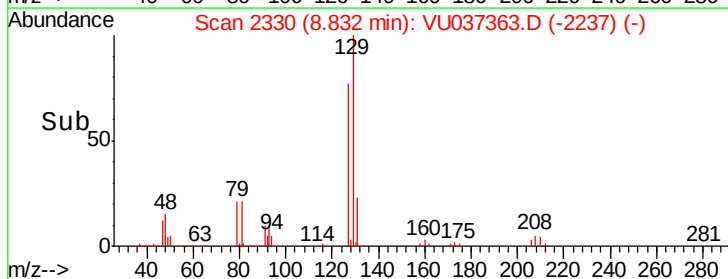
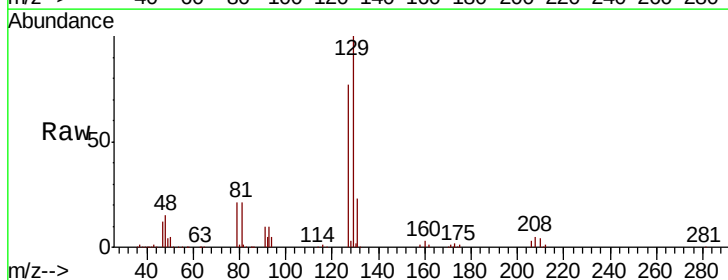
Instrument :
MSVOA_U
ClientSampled :

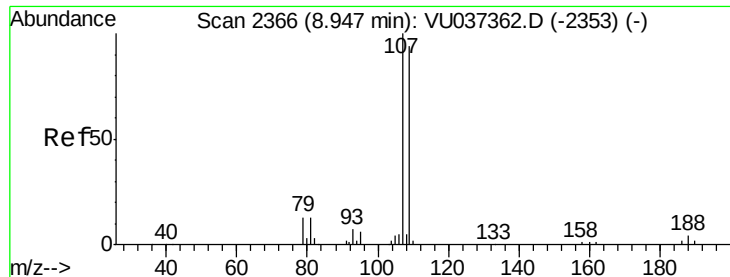
Tot Ion: 43 Resp: 606476
Ion Ratio Lower Upper
43 100
58 50.9 43.8 65.6
57 18.7 14.9 22.3
100 11.1 9.0 13.6



#49
Dibromochloromethane
Concen: 101.647 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion: 129 Resp: 262586
Ion Ratio Lower Upper
129 100
127 77.3 54.0 100.2

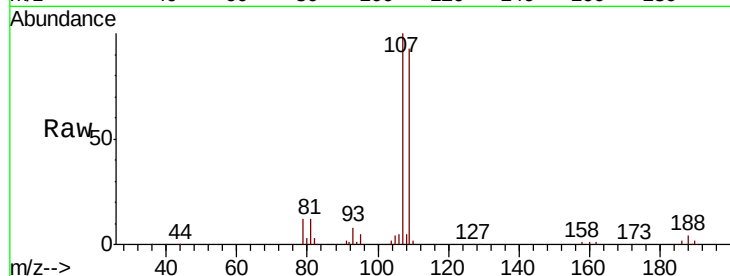




#50
1,2-Dibromoethane
Concen: 102.434 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.1	66.1	122.8
188	3.7	3.2	4.8

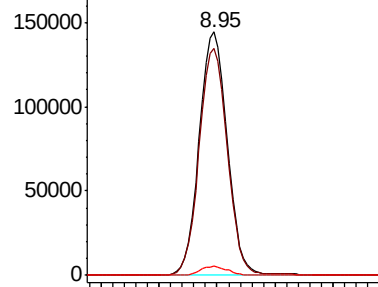


Abundance

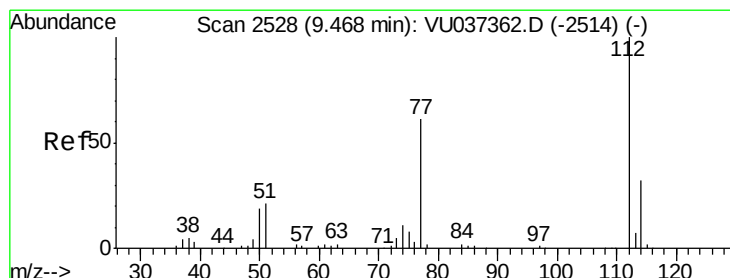
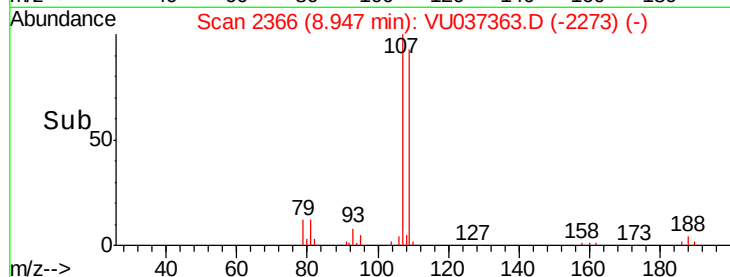
Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

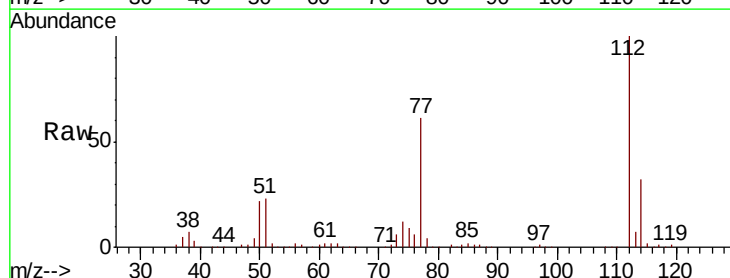


Time--> 8.85 8.90 8.95 9.00 9.05



#51
Chlorobenzene
Concen: 98.574 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.1	41.1
77	61.5	49.6	74.4

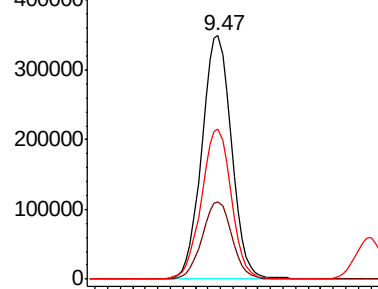


Abundance

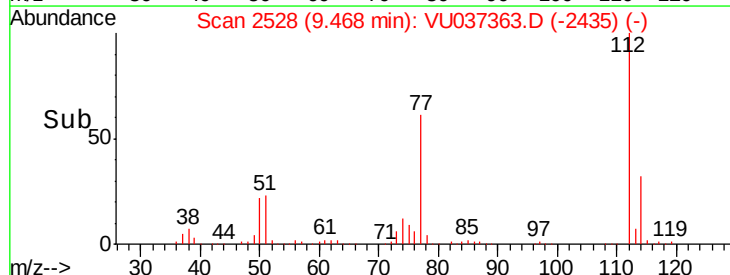
Ion 112.00 (111.70 to 112.70): V

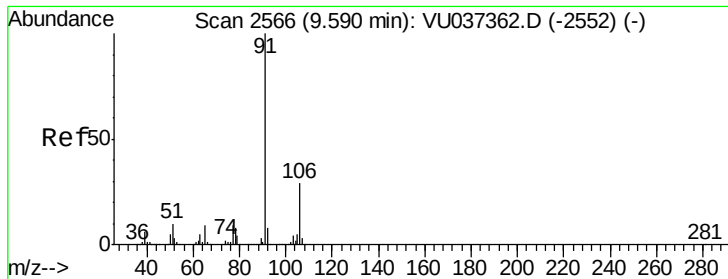
Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0



Time--> 9.40 9.45 9.50 9.55





#52

Ethylbenzene

Concen: 97.154 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

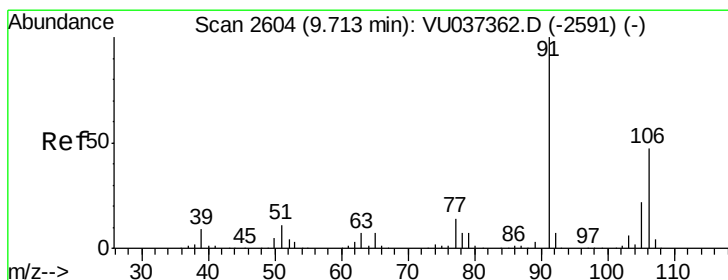
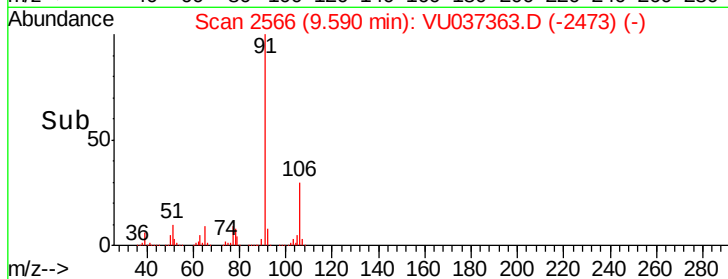
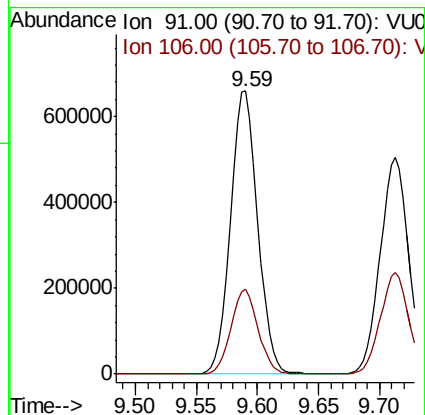
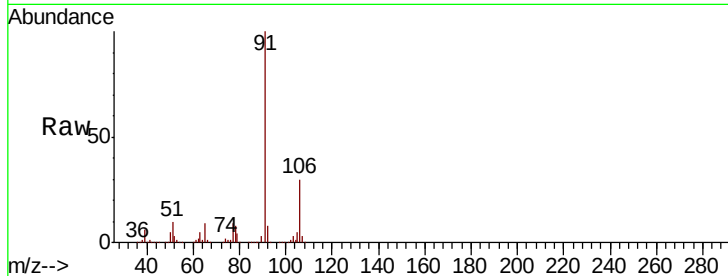
ClientSampleId :

Tot Ion: 91 Resp: 1031343

Ion Ratio Lower Upper

91 100

106 29.9 20.5 38.1



#53

m,p-Xylene

Concen: 100.177 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037363.D

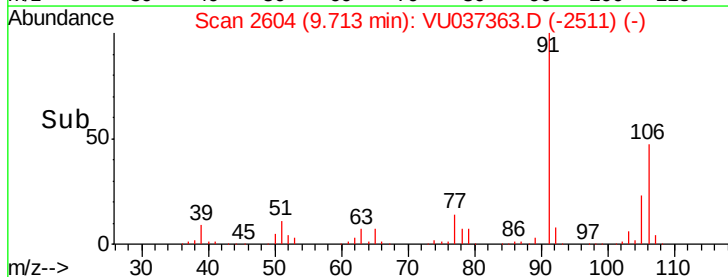
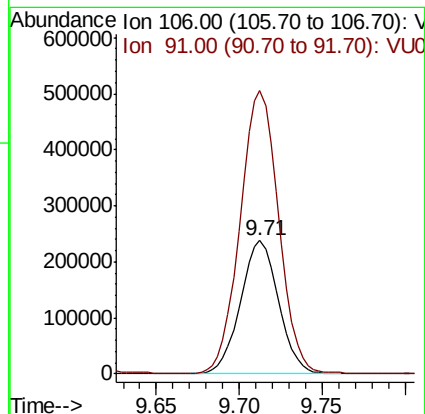
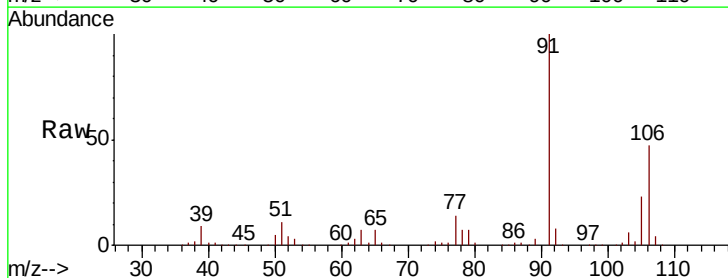
Acq: 21 Mar 2020 18:58

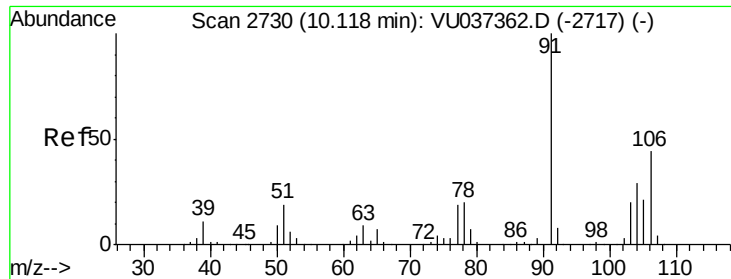
Tgt Ion: 106 Resp: 378020

Ion Ratio Lower Upper

106 100

91 212.8 149.7 277.9





#54

o-xylene

Concen: 101.334 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

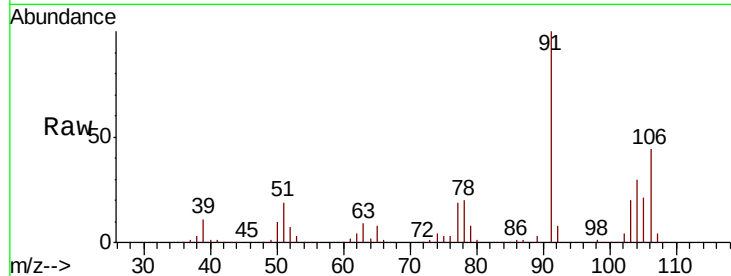
ClientSampled :

Tot Ion:106 Resp: 378714

Ion Ratio Lower Upper

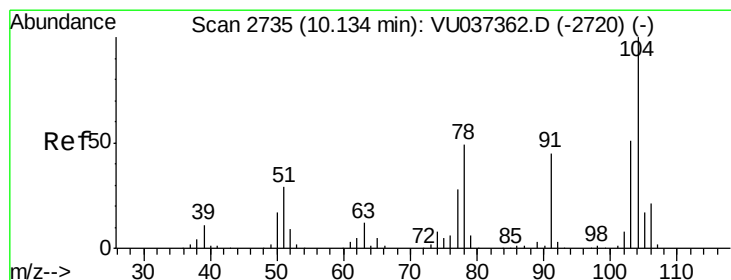
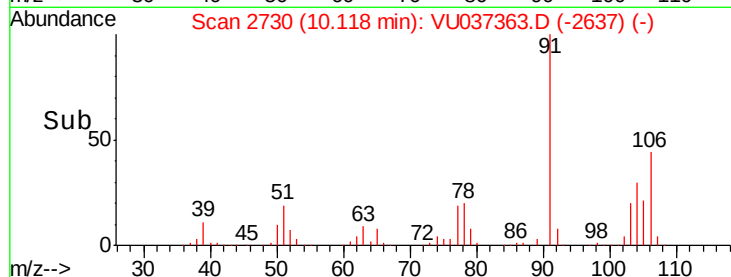
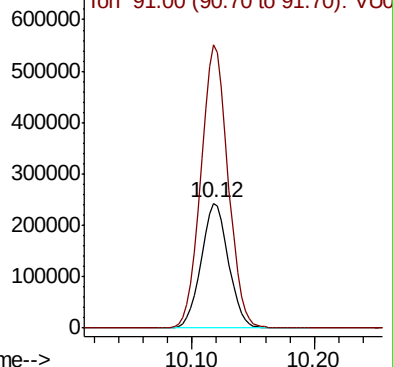
106 100

91 227.0 157.6 292.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 103.901 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037363.D

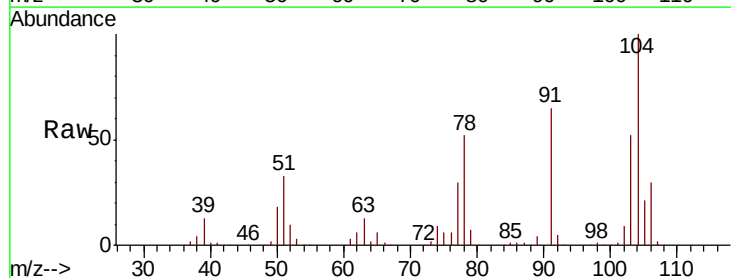
Acq: 21 Mar 2020 18:58

Tgt Ion:104 Resp: 658607

Ion Ratio Lower Upper

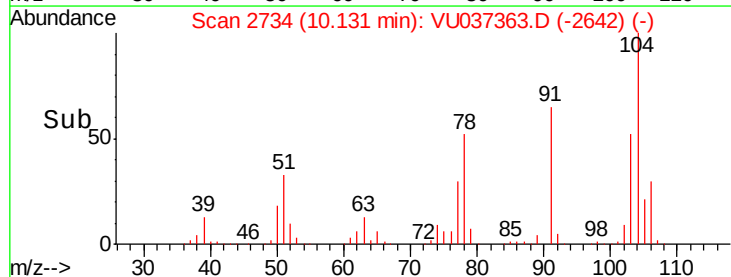
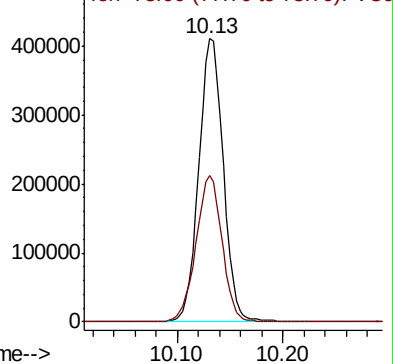
104 100

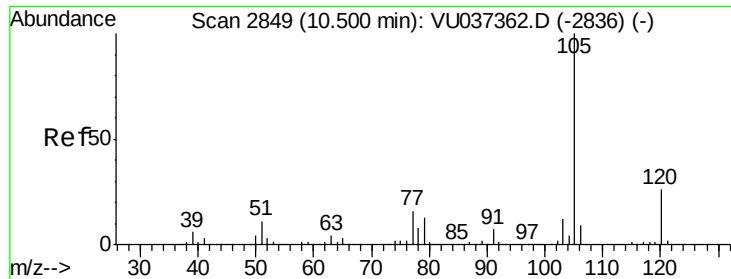
78 51.8 34.2 63.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 98.973 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

ClientSampled :

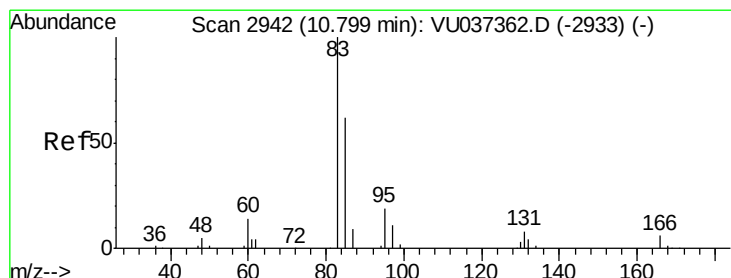
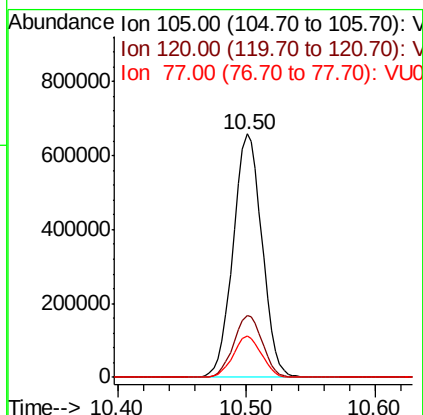
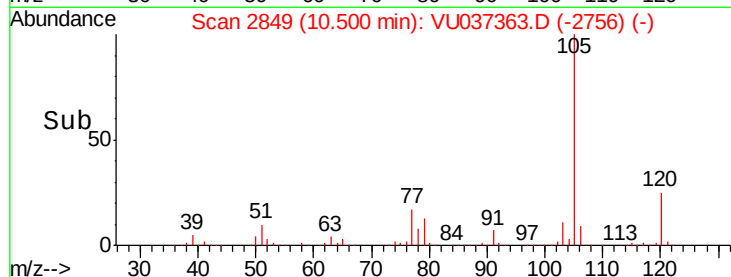
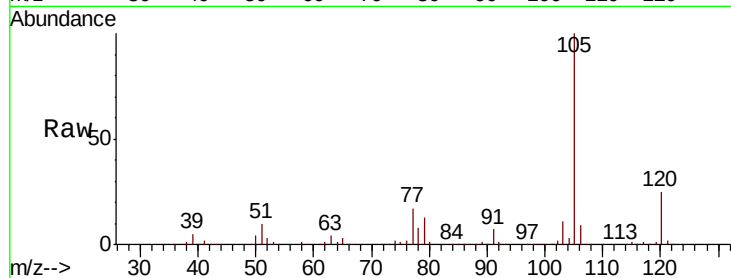
Tot Ion:105 Resp: 1024056

Ion Ratio Lower Upper

105 100

120 25.3 20.8 31.2

77 16.7 13.2 19.8



#58

1,1,2,2-Tetrachloroethane

Concen: 97.909 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

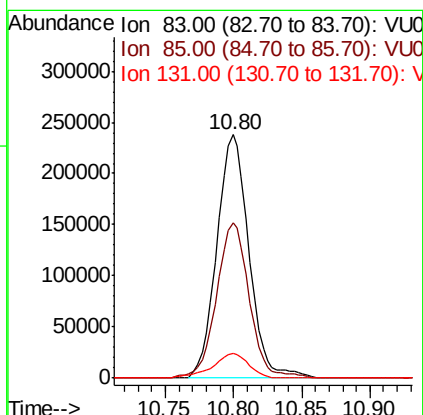
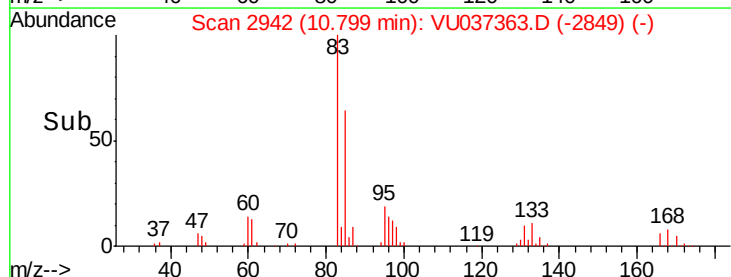
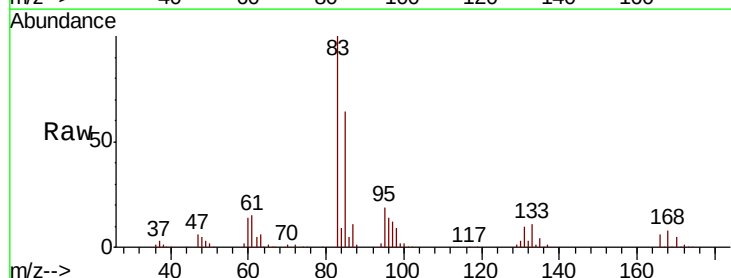
Tgt Ion: 83 Resp: 389034

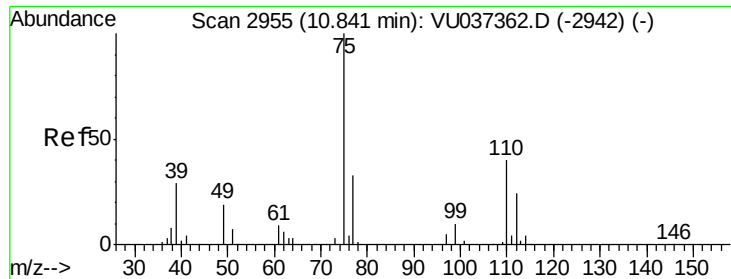
Ion Ratio Lower Upper

83 100

85 64.0 45.2 84.0

131 10.2 7.8 11.8





#59

1,2,3-Trichloropropane

Concen: 97.621 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

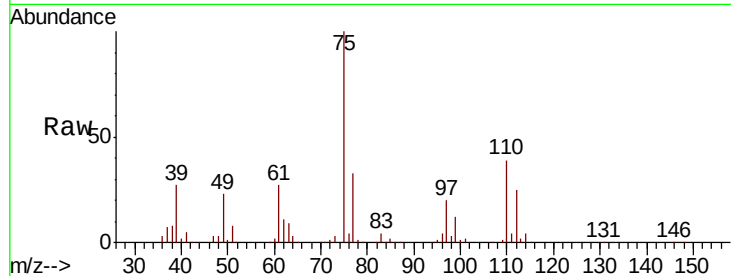
ClientSampled :

Tot Ion: 75 Resp: 322801

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU037362.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037362.D (-2942) (-)

10.84

200000

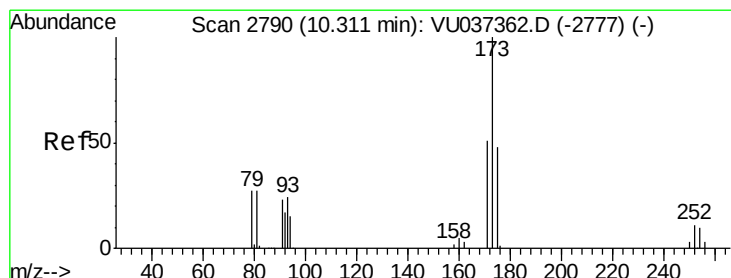
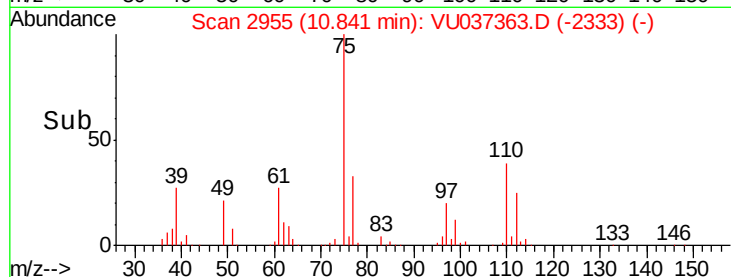
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 103.385 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

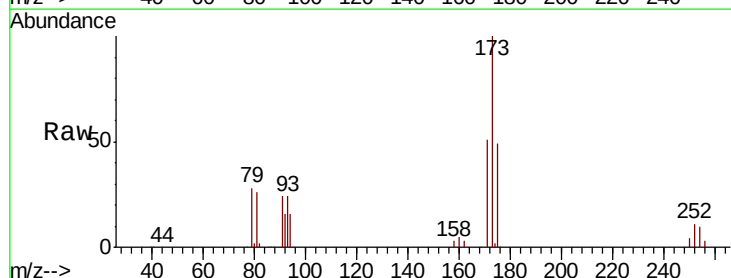
Tgt Ion: 173 Resp: 217259

Ion Ratio Lower Upper

173 100

175 48.4 38.7 58.1

254 10.2 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VU037362.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037362.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037362.D (-2777) (-)

10.31

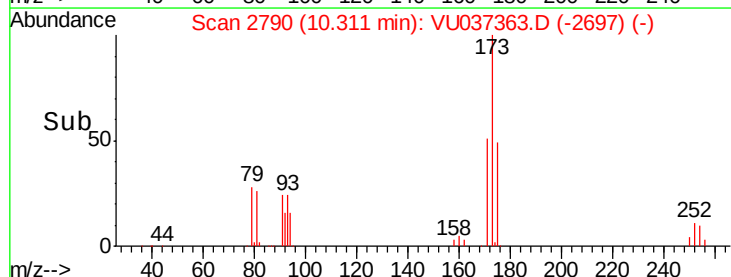
150000

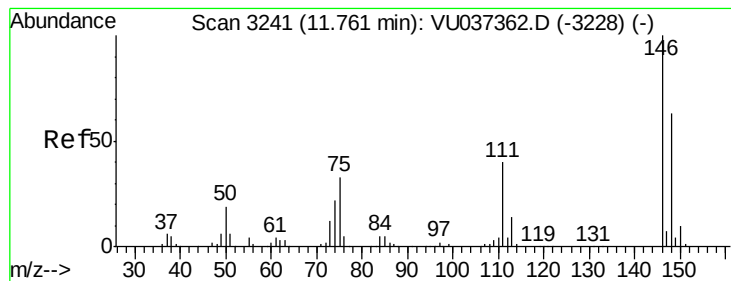
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 98.949 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

Instrument :

MSVOA_U

ClientSampleId :

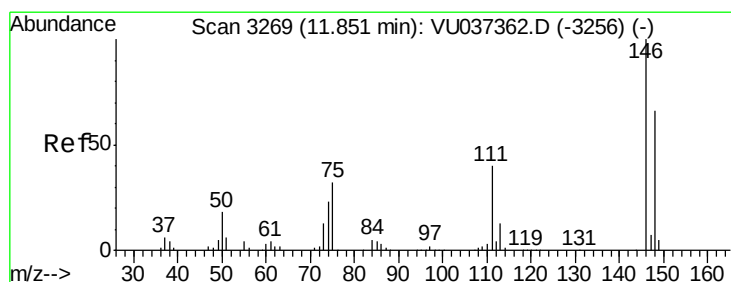
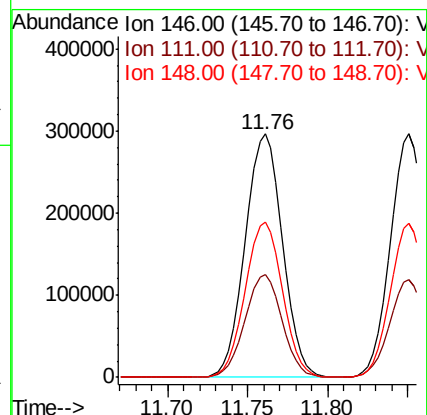
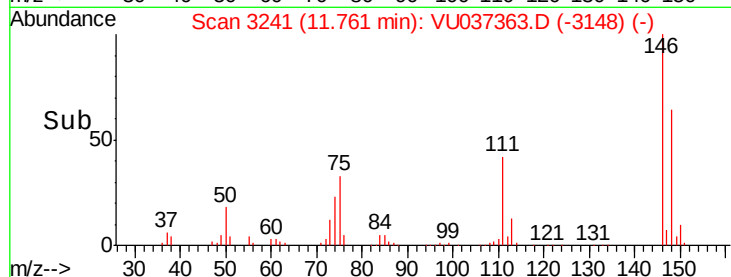
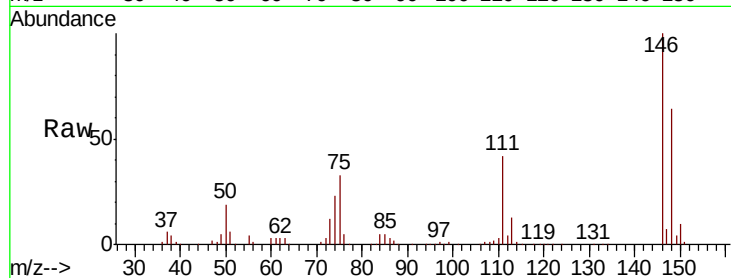
Tot Ion:146 Resp: 470571

Ion Ratio Lower Upper

146 100

111 42.2 28.3 52.5

148 63.8 43.8 81.4



#63

1,4-Dichlorobenzene

Concen: 97.811 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU037363.D

Acq: 21 Mar 2020 18:58

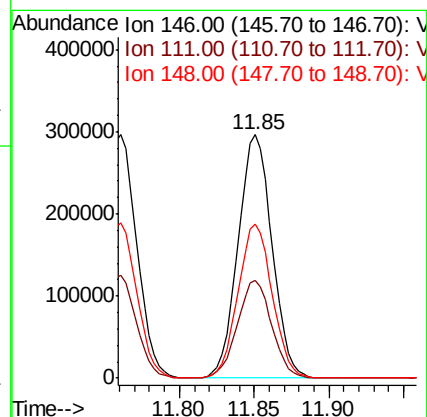
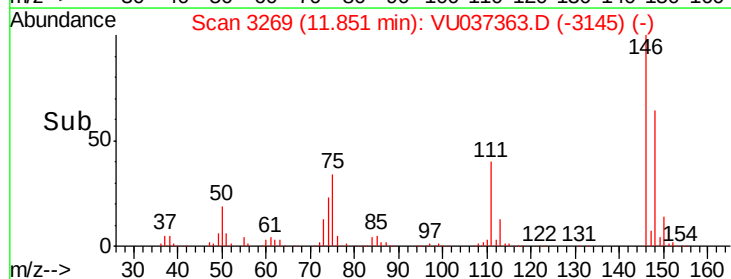
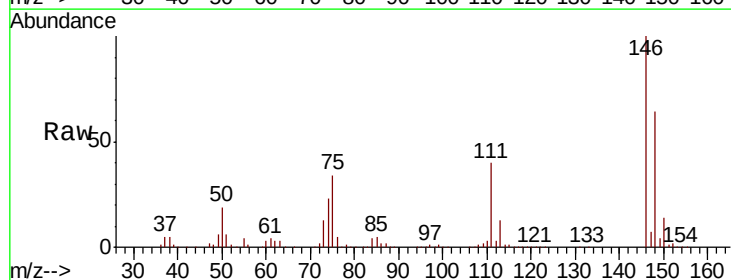
Tgt Ion:146 Resp: 468024

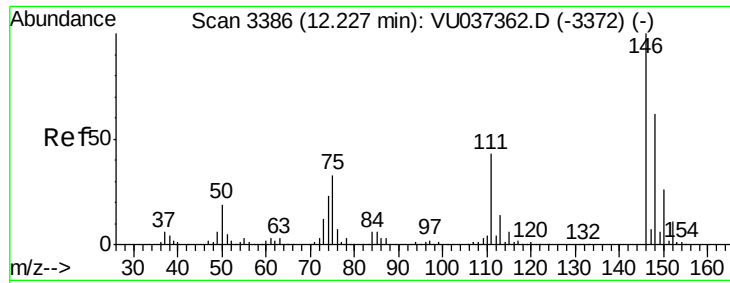
Ion Ratio Lower Upper

146 100

111 40.3 27.9 51.9

148 63.6 46.2 85.8

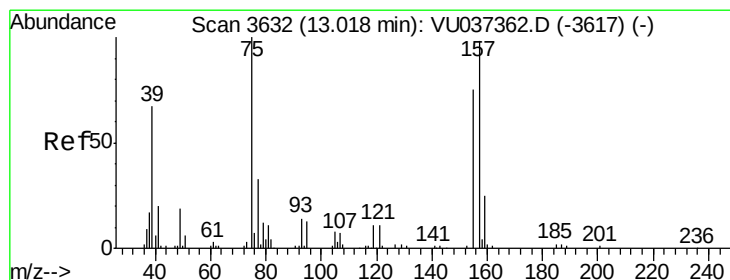
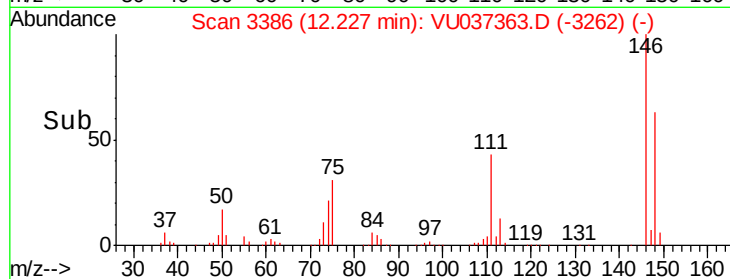
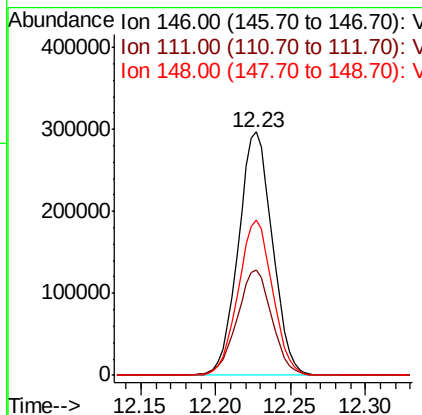
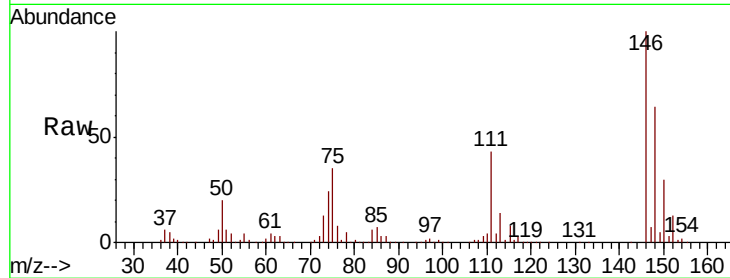




#65
 1,2-Dichlorobenzene
 Concen: 96.804 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

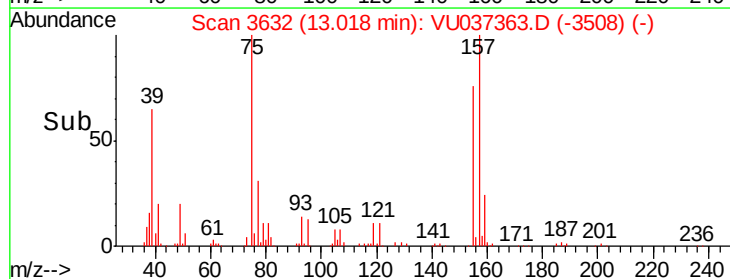
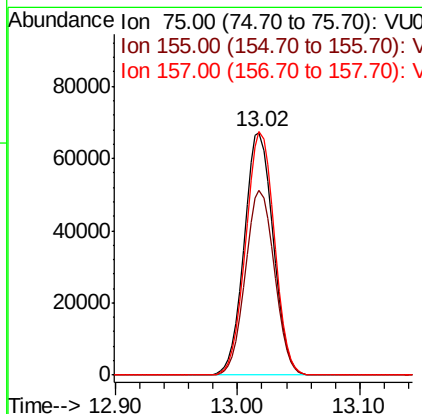
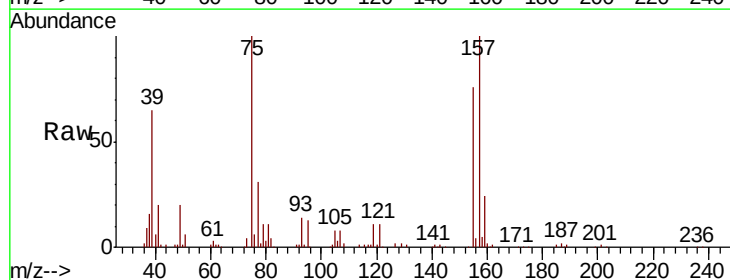
Instrument :
 MSVOA_U
 ClientSampleId :

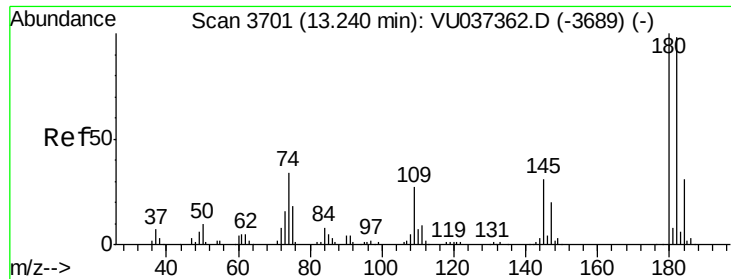
Tot Ion:146 Resp: 469739
 Ion Ratio Lower Upper
 146 100
 111 43.4 34.7 52.1
 148 63.6 49.9 74.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 103.194 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion: 75 Resp: 109705
 Ion Ratio Lower Upper
 75 100
 155 76.2 59.7 89.5
 157 100.5 78.8 118.2

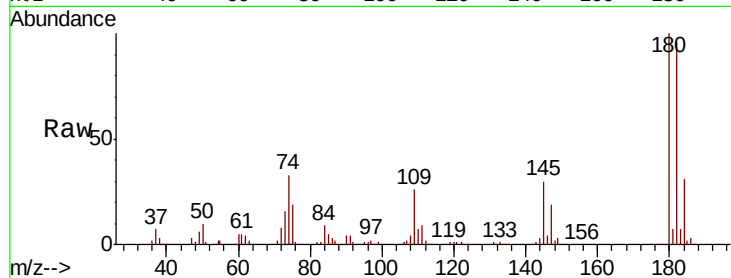




#67
 1,3,5-Trichlorobenzene
 Concen: 98.492 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.8	116.6
184	31.2	24.7	37.1
145	30.6	24.2	36.4



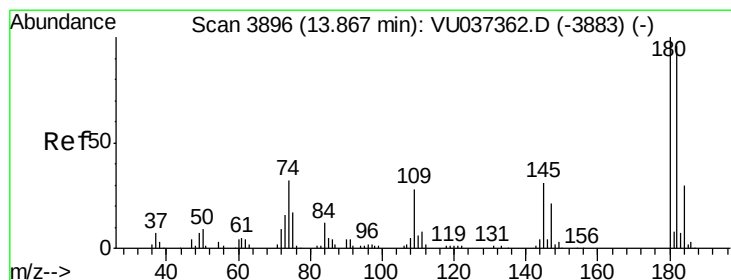
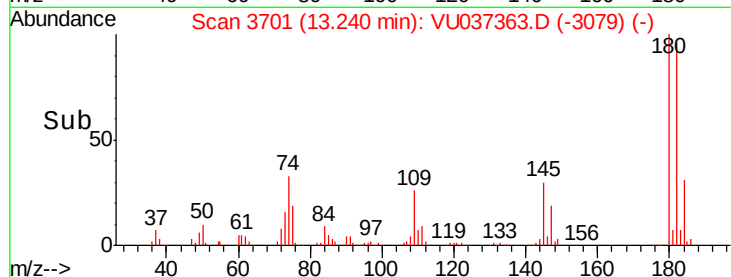
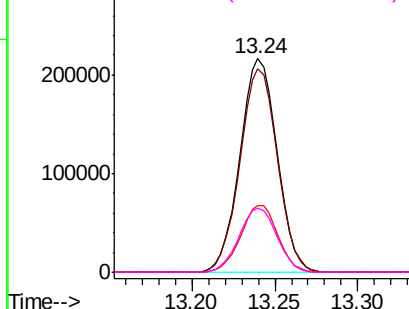
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

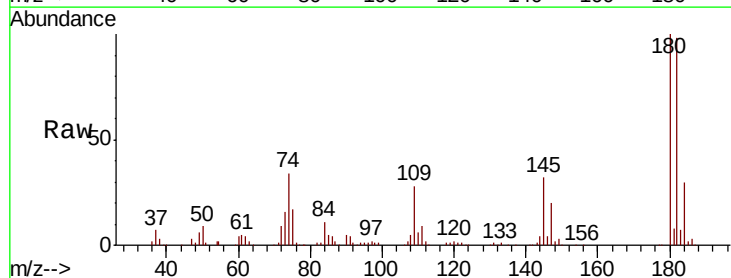
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 107.896 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU037363.D
 Acq: 21 Mar 2020 18:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.0	115.4
145	31.6	24.6	36.8

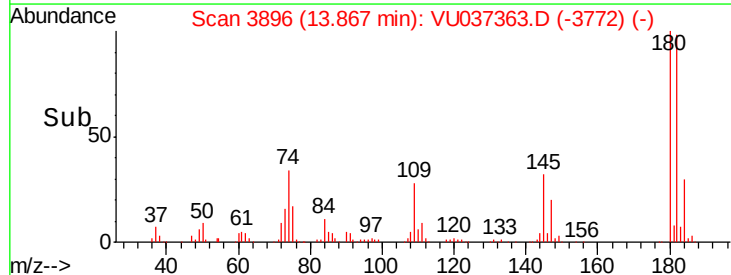
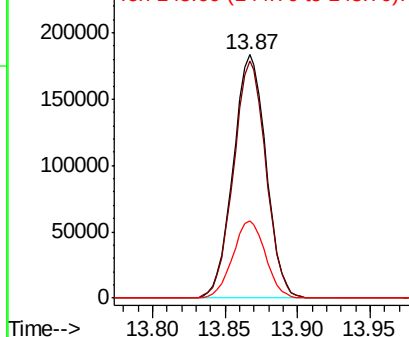


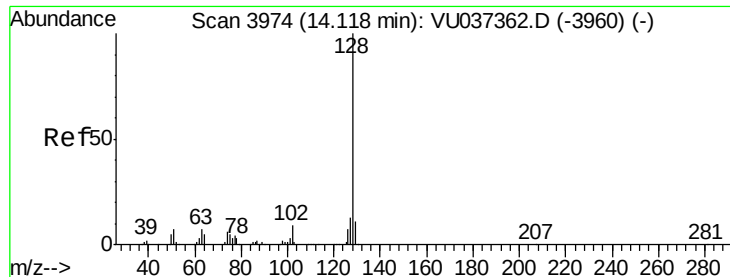
Abundance

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

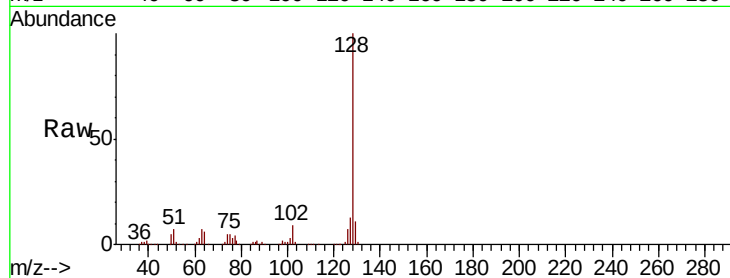




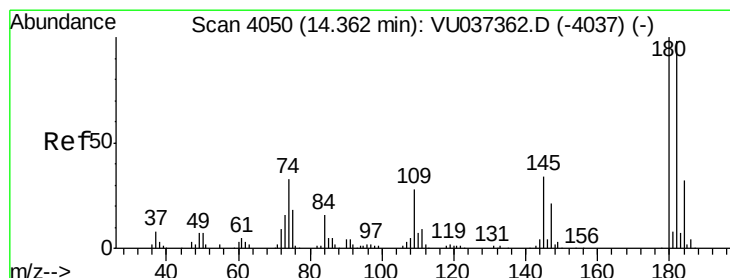
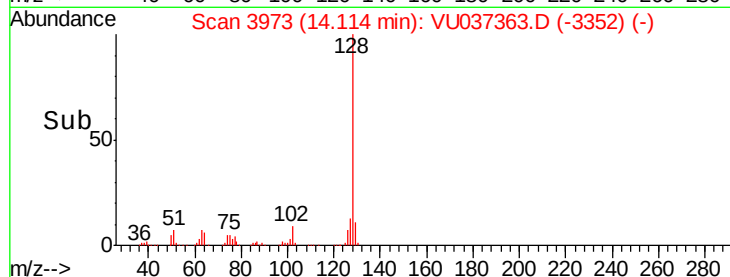
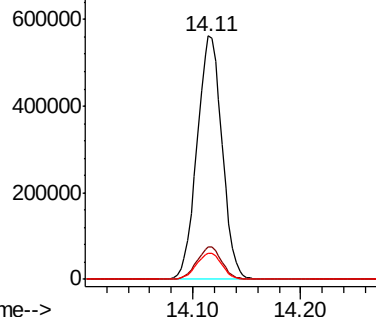
#69
Naphthalene
Concen: 191.833 ug/L
RT: 14.11 min Scan# 3973
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 909494
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.0 8.8 13.2

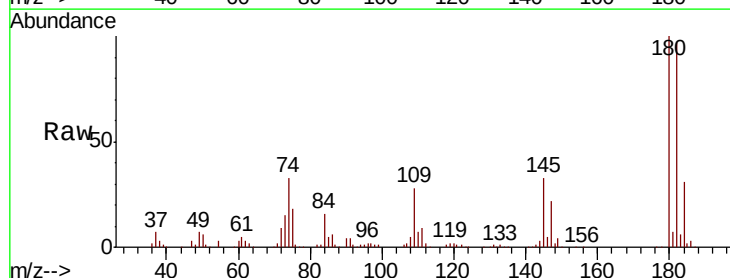


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70
1,2,3-Trichlorobenzene
Concen: 104.263 ug/L
RT: 14.36 min Scan# 4050
Delta R.T. -0.00 min
Lab File: VU037363.D
Acq: 21 Mar 2020 18:58

Tgt Ion:180 Resp: 293924
Ion Ratio Lower Upper
180 100
182 95.7 76.3 114.5
145 33.3 26.9 40.3



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

