

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111920\
 Data File : VY003553.D
 Acq On : 19 Nov 2020 17:16
 Operator : SY/MD
 Sample : MDL06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL06

Quant Time: Nov 20 01:46:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111920S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 20 01:42:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	232482	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	212299	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	102329	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	52492	20.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.96%
7) Chloroethane-d5	2.77	69	50075	21.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.24%
10) 1,1-Dichloroethene-d2	3.86	63	100148	15.81	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.24%
20) 2-Butanone-d5	6.91	46	63606	49.23	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.46%
24) Chloroform-d	7.49	84	139385	23.59	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.36%
26) 1,2-Dichloroethane-d4	8.14	65	80554	24.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.28%
29) Benzene-d6	8.11	84	289635	23.42	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.68%
33) 1,2-Dichloropropane-d6	9.12	67	88629	24.44	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.76%
37) Toluene-d8	10.18	98	259191	23.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.56%
38) trans-1,3-Dichloropropene-	10.44	79	42470	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.88%
39) 2-Hexanone-d5	10.79	63	45183	47.91	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.82%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	75567	23.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.68%
61) 1,2-Dichlorobenzene-d4	13.72	152	81949	24.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.24%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.93	85	906	0.735 ug/L	91
3) Chloromethane	2.11	50	2910	1.122 ug/L	95
5) Vinyl chloride	2.26	62	3676	1.187 ug/L #	63
6) Bromomethane	2.67	94	2668	1.110 ug/L	99
8) Chloroethane	2.80	64	1461	0.695 ug/L	87
9) Trichlorofluoromethane	3.14	101	2765	0.931 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	2591	0.842 ug/L #	79
12) 1,1-Dichloroethene	3.86	96	2982	0.926 ug/L #	1
14) Carbon disulfide	4.21	76	11570	1.085 ug/L	95
15) Methyl Acetate	4.49	43	2701	1.147 ug/L #	77
16) Methylene chloride	4.72	84	11020	2.765 ug/L	96
17) Methyl tert-butyl Ether	5.22	73	3344	0.665 ug/L #	82
18) trans-1,2-Dichloroethene	5.23	96	3158	0.931 ug/L	93
19) 1,1-Dichloroethane	6.02	63	3755	0.655 ug/L	91
21) 2-Butanone	7.00	43	5096	3.262 ug/L	83
22) cis-1,2-Dichloroethene	6.99	96	2748	0.788 ug/L	90
23) Bromochloromethane	7.34	128	1841	1.091 ug/L	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

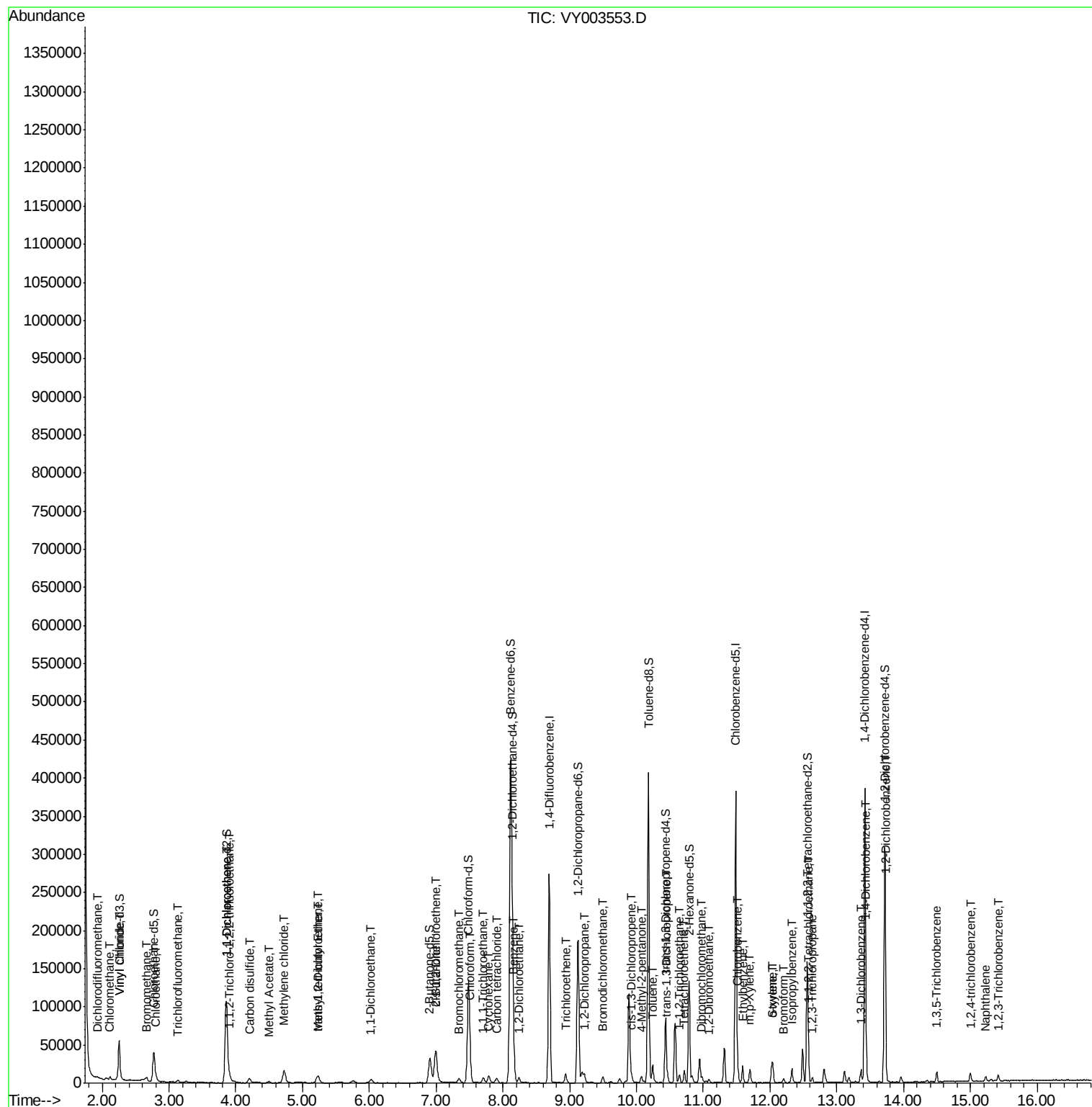
25) Chloroform	7.52	83	7186	1.261	ug/L #	73
27) 1,2-Dichloroethane	8.24	62	4881	1.268	ug/L	95
30) Cyclohexane	7.78	56	4767	0.923	ug/L #	95
31) 1,1,1-Trichloroethane	7.71	97	4991	1.081	ug/L	98
32) Carbon tetrachloride	7.91	117	4778	1.088	ug/L	95
34) Benzene	8.17	78	15259	1.139	ug/L	100
35) Trichloroethene	8.95	95	3795	1.119	ug/L	97
40) 1,2-Dichloropropane	9.22	63	3983	1.206	ug/L #	91
41) Bromodichloromethane	9.50	83	4790	1.137	ug/L	94
42) cis-1,3-Dichloropropene	9.93	75	5882	1.130	ug/L	97
43) 4-Methyl-2-pentanone	10.07	43	5914	2.141	ug/L	98
44) Toluene	10.24	91	16023	1.135	ug/L	96
45) trans-1,3-Dichloropropene	10.46	75	7381	1.539	ug/L	98
46) 1,1,2-Trichloroethane	10.64	97	3112	1.180	ug/L	93
47) Tetrachloroethene	10.72	164	3514	1.192	ug/L	96
50) Dibromochloromethane	10.98	129	3777	1.187	ug/L	91
51) 1,2-Dibromoethane	11.08	107	3098	1.178	ug/L #	75
52) Chlorobenzene	11.52	112	9812	1.088	ug/L	95
53) Ethylbenzene	11.59	91	15352	1.059	ug/L	97
54) m,p-Xylene	11.70	106	5972	1.070	ug/L	91
55) o-xylene	12.03	106	4768	1.023	ug/L	96
56) Styrene	12.04	104	9126	1.000	ug/L	96
57) Isopropylbenzene	12.33	105	10192	0.967	ug/L #	96
58) 1,1,2,2-Tetrachloroethane	12.58	83	4098	1.317	ug/L #	96
59) 1,2,3-Trichloropropane	12.63	75	2860	1.180	ug/L	94
62) Bromoform	12.20	173	2420	1.165	ug/L #	97
63) 1,3-Dichlorobenzene	13.36	146	7531	1.166	ug/L	97
64) 1,4-Dichlorobenzene	13.44	146	7720	1.161	ug/L	95
65) 1,2-Dichlorobenzene	13.73	146	6251	1.175	ug/L	97
67) 1,3,5-Trichlorobenzene	14.50	180	4298	1.255	ug/L	90
68) 1,2,4-trichlorobenzene	15.00	180	3202	1.085	ug/L	98
69) Naphthalene	15.23	128	5487	1.054	ug/L	97
70) 1,2,3-Trichlorobenzene	15.42	180	2716	1.218	ug/L	95

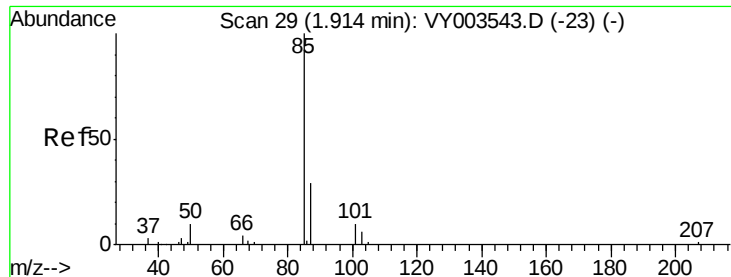
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.735 ug/L

RT: 1.93 min Scan# 31

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampled :

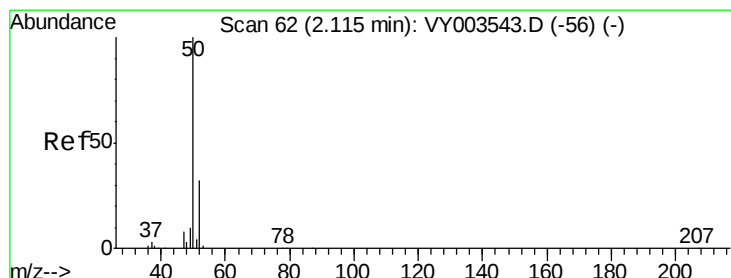
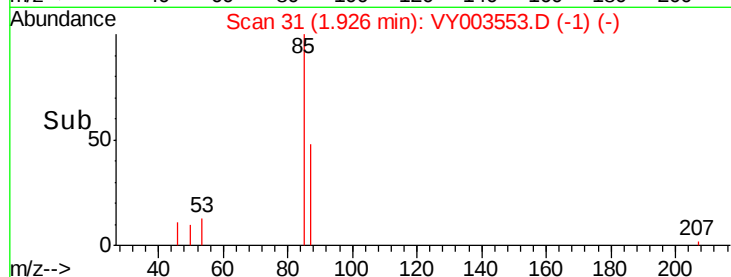
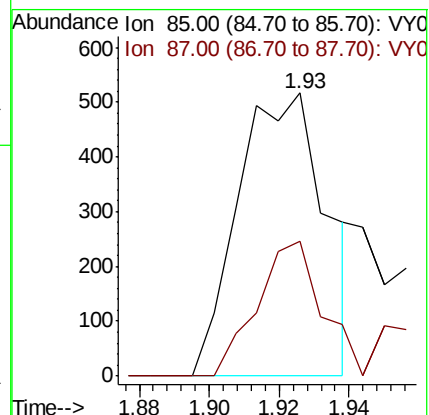
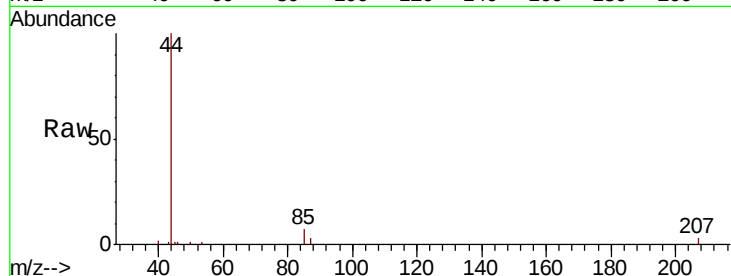
MDL06

Tot Ion: 85 Resp: 906

Ion Ratio Lower Upper

85 100

87 35.1 21.3 39.5



#3

Chloromethane

Concen: 1.122 ug/L

RT: 2.11 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003553.D

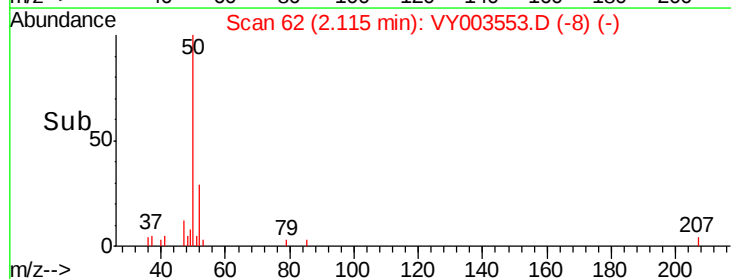
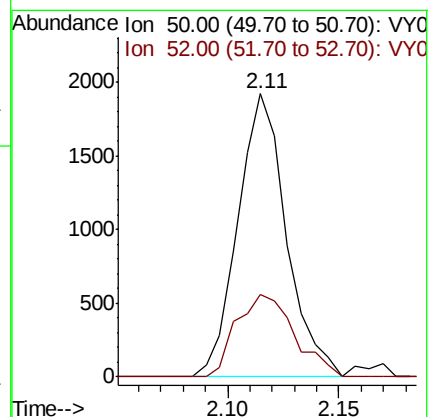
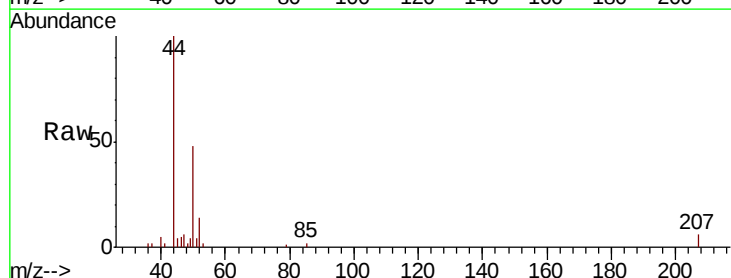
Acq: 19 Nov 2020 17:16

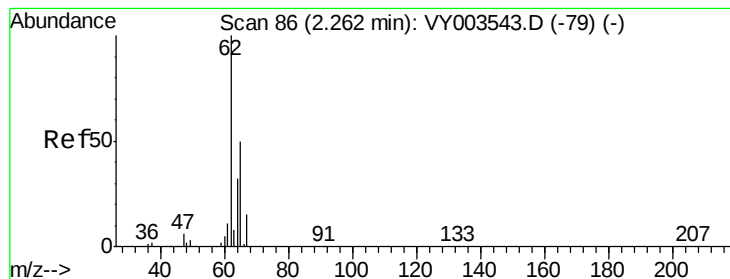
Tgt Ion: 50 Resp: 2910

Ion Ratio Lower Upper

50 100

52 29.3 22.4 41.6





#5

Vinyl chloride

Concen: 1.187 ug/L

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

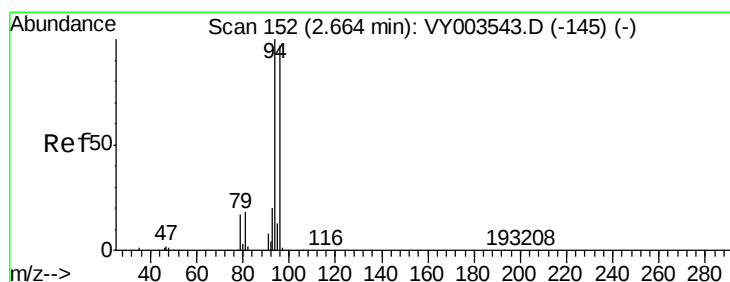
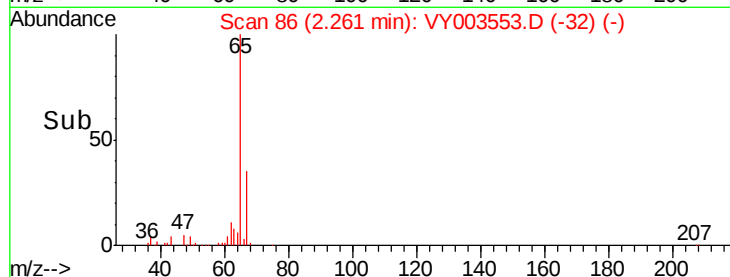
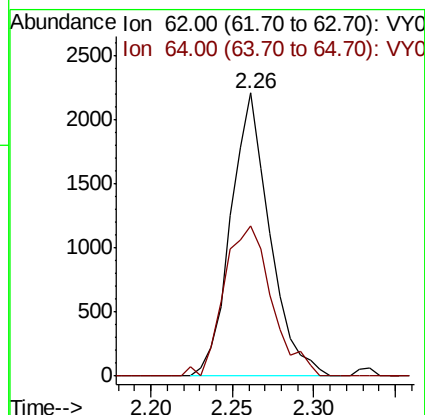
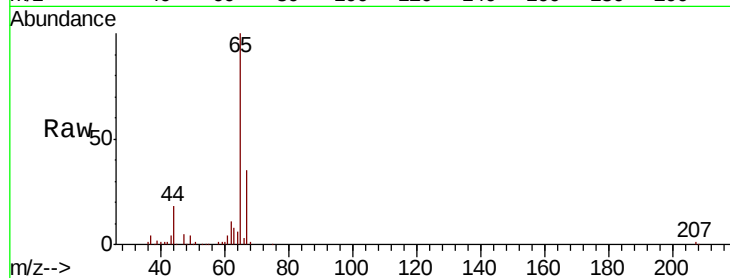
MDL06

Tot Ion: 62 Resp: 3676

Ion Ratio Lower Upper

62 100

64 53.0 22.7 42.1#



#6

Bromomethane

Concen: 1.110 ug/L

RT: 2.67 min Scan# 153

Delta R.T. 0.01 min

Lab File: VY003553.D

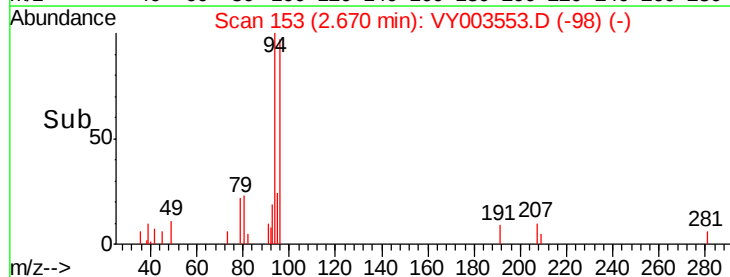
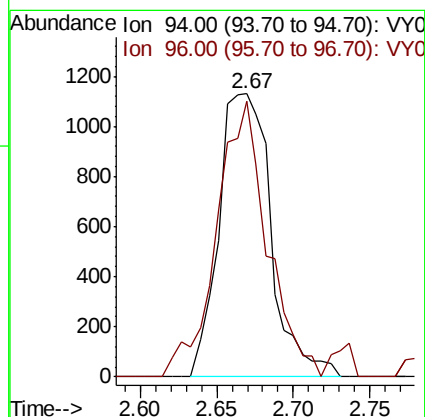
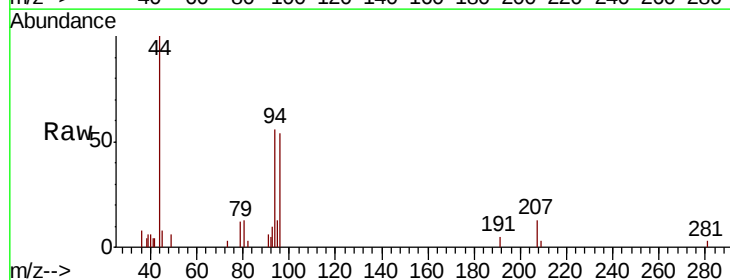
Acq: 19 Nov 2020 17:16

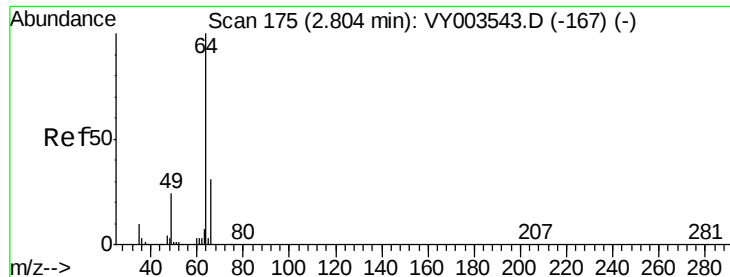
Tgt Ion: 94 Resp: 2668

Ion Ratio Lower Upper

94 100

96 95.4 9.4 178.6





#8

Chloroethane

Concen: 0.695 ug/L

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampled :

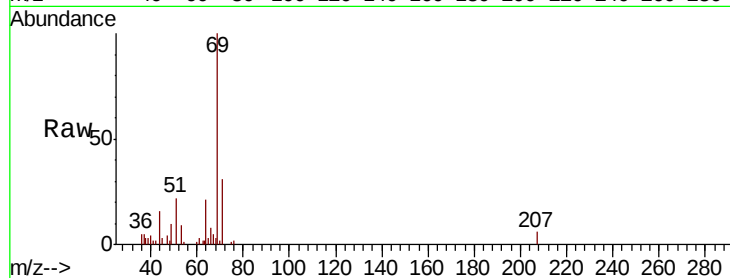
MDL06

Tot Ion: 64 Resp: 1461

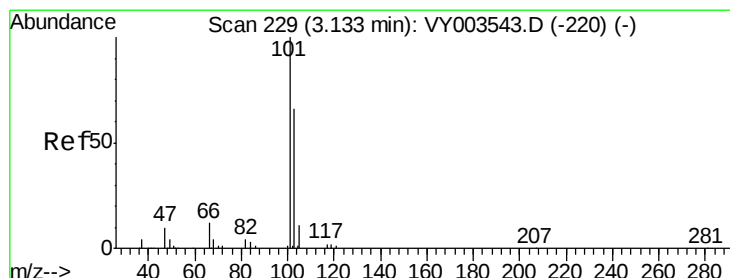
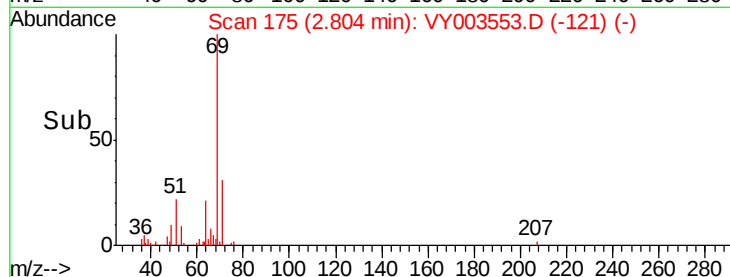
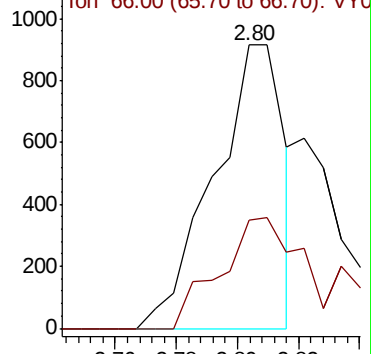
Ion Ratio Lower Upper

64 100

66 38.1 21.8 40.6



Abundance Ion 64.00 (63.70 to 64.70): VY003553.D (-167) (-)



#9

Trichlorofluoromethane

Concen: 0.931 ug/L

RT: 3.14 min Scan# 230

Delta R.T. 0.01 min

Lab File: VY003553.D

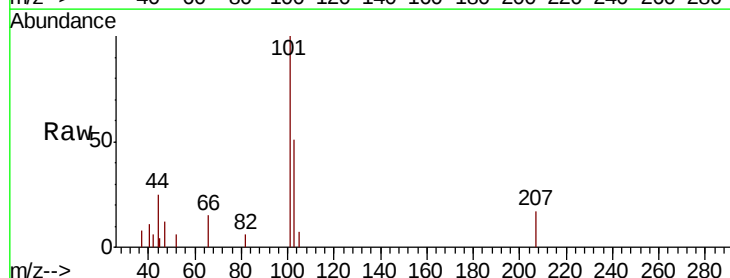
Acq: 19 Nov 2020 17:16

Tgt Ion: 101 Resp: 2765

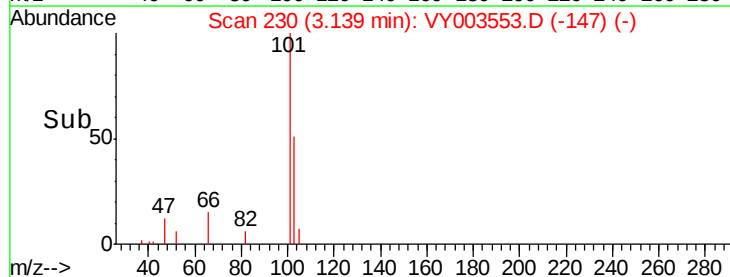
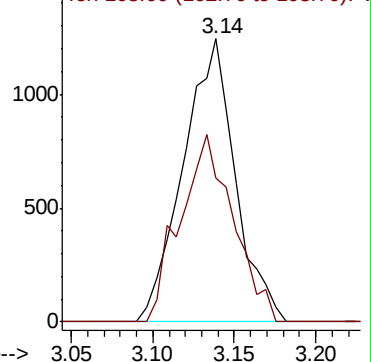
Ion Ratio Lower Upper

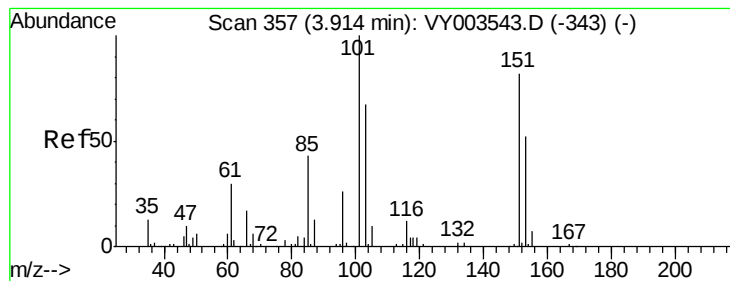
101 100

103 67.2 45.6 84.6



Abundance Ion 101.00 (100.70 to 101.70): VY003553.D (-220) (-)





#11

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

Concen: 0.842 ug/L

RT: 3.91 min Scan# 357

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

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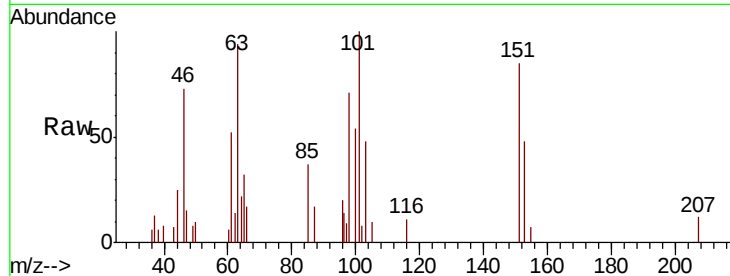
Tot Ion:101 Resp: 2591

Ion Ratio Lower Upper

101 100

85 42.9 35.0 52.4

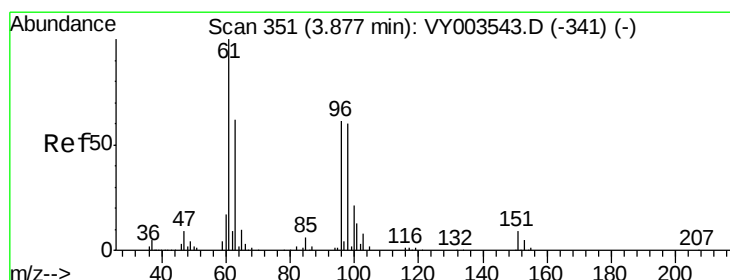
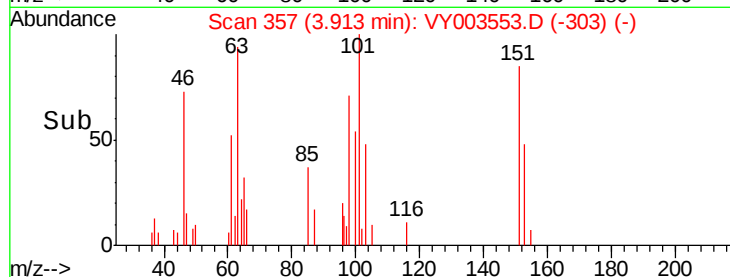
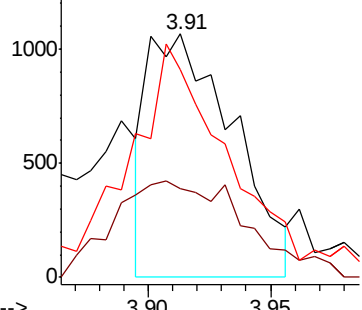
151 109.8 65.4 98.0#



Abundance Ion 101.00 (100.70 to 101.70): VY003543.D (-343) (-)

Ion 85.00 (84.70 to 85.70): VY003543.D (-343) (-)

Ion 151.00 (150.70 to 151.70): VY003543.D (-343) (-)



#12

1,1-Dichloroethene

Concen: 0.926 ug/L

RT: 3.86 min Scan# 349

Delta R.T. -0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

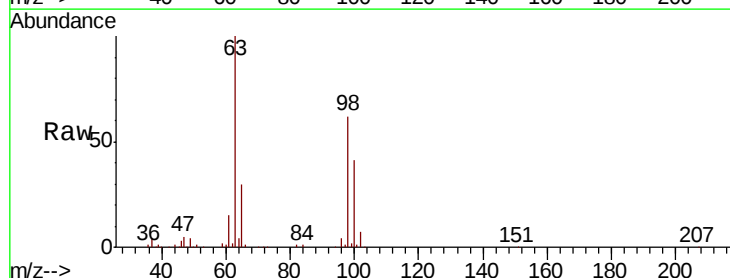
Tgt Ion: 96 Resp: 2982

Ion Ratio Lower Upper

96 100

61 339.2 116.6 216.6#

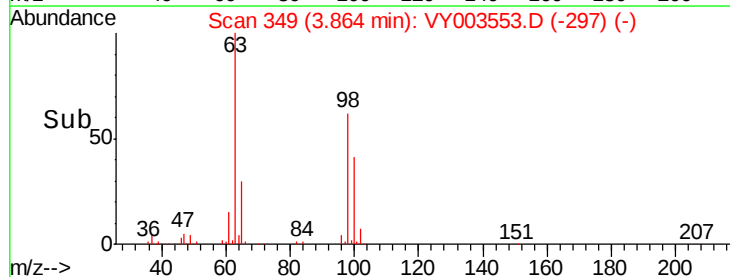
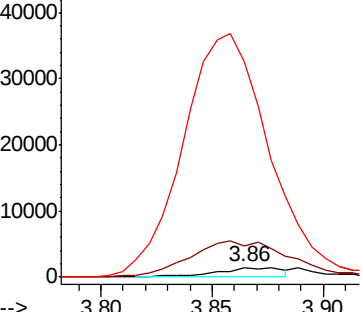
63 2296.7 77.5 143.9#

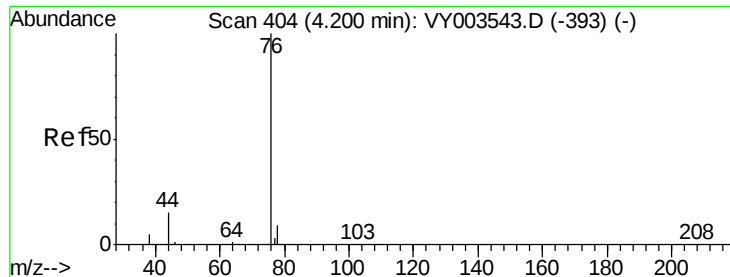


Abundance Ion 96.00 (95.70 to 96.70): VY003543.D (-341) (-)

Ion 61.00 (60.70 to 61.70): VY003543.D (-341) (-)

Ion 63.00 (62.70 to 63.70): VY003543.D (-341) (-)





#14

Carbon disulfide

Concen: 1.085 ug/L

RT: 4.21 min Scan# 405

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

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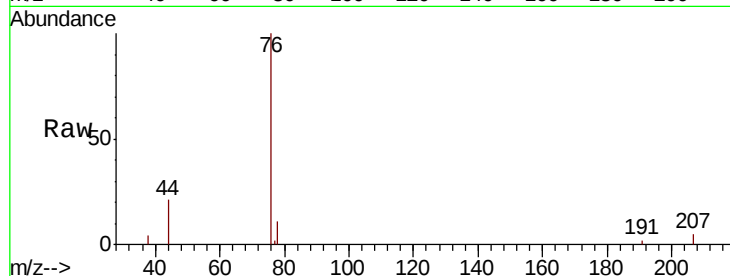
MDL06

Tot Ion: 76 Resp: 11570

Ion Ratio Lower Upper

76 100

78 10.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VY003543.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VY003543.D (-393) (-)

4.21

4000

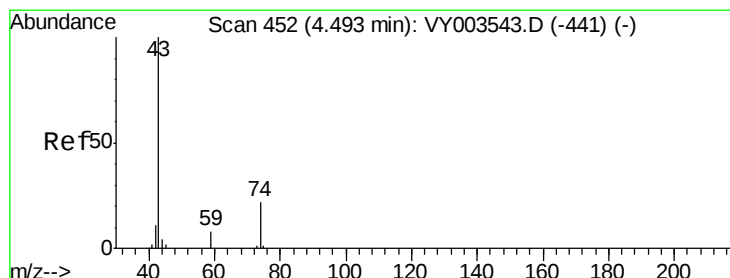
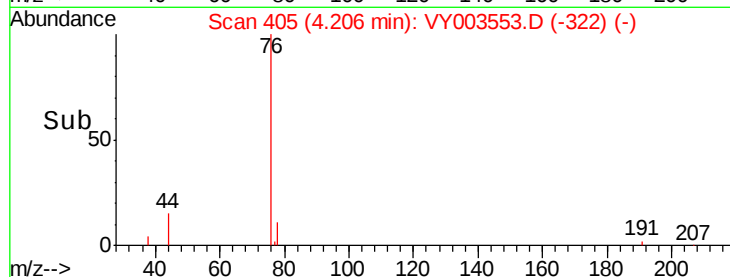
3000

2000

1000

0

Time-->



#15

Methyl Acetate

Concen: 1.147 ug/L

RT: 4.49 min Scan# 452

Delta R.T. -0.00 min

Lab File: VY003553.D

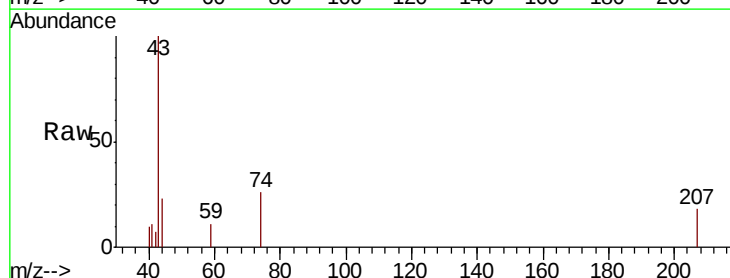
Acq: 19 Nov 2020 17:16

Tgt Ion: 43 Resp: 2701

Ion Ratio Lower Upper

43 100

74 11.7 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VY003543.D (-441) (-)

Ion 74.00 (73.70 to 74.70): VY003543.D (-441) (-)

4.49

1000

800

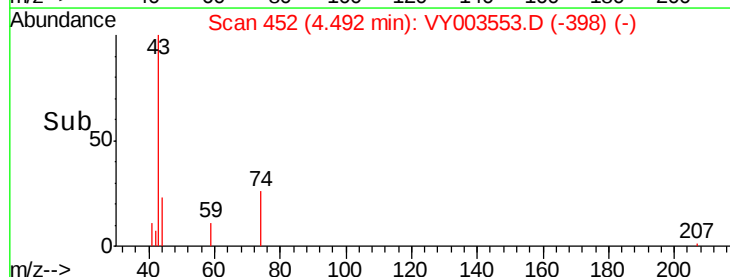
600

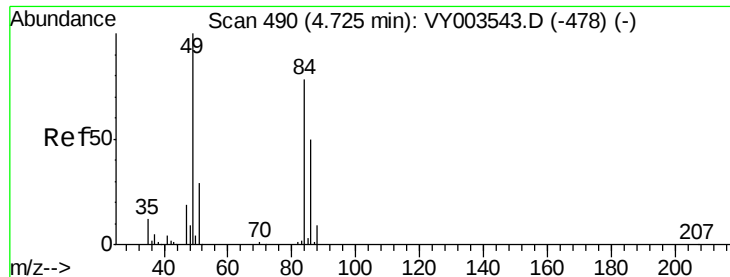
400

200

0

Time-->

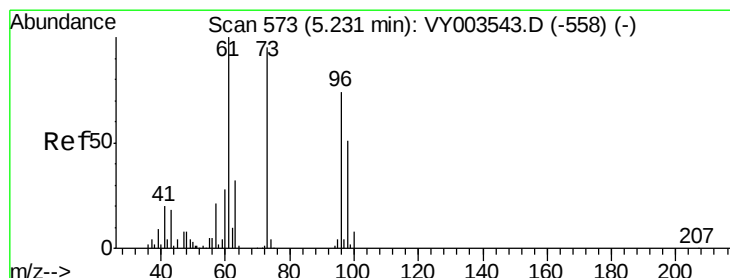
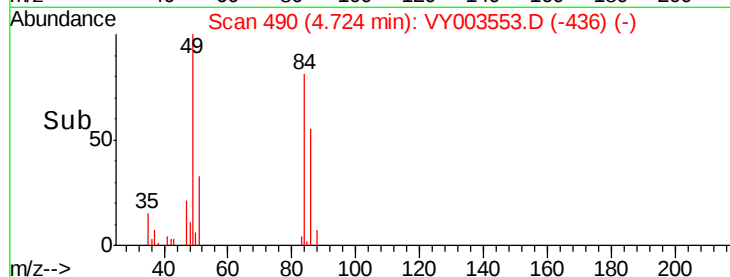
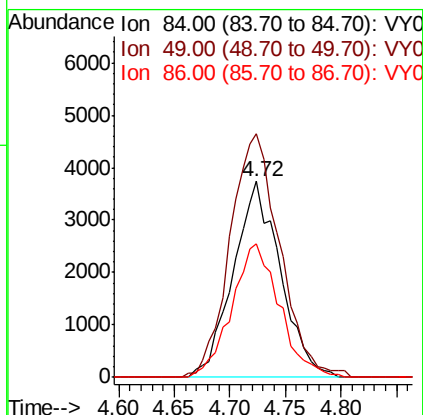
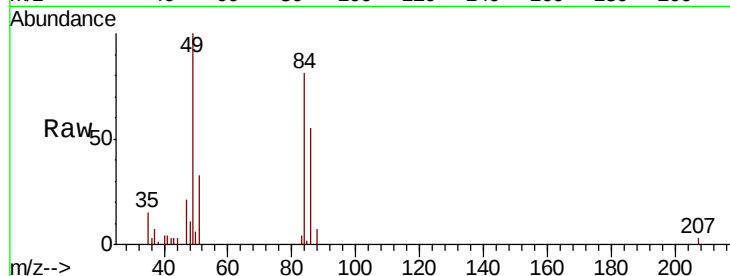




#16
Methvlene chloride
Concen: 2.765 ug/L
RT: 4.72 min Scan# 490
Delta R.T. -0.00 min
Lab File: VY003553.D
Acq: 19 Nov 2020 17:16

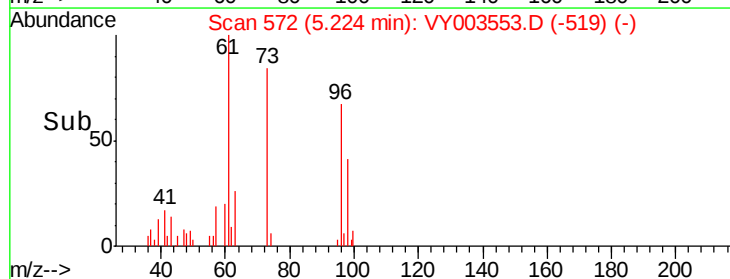
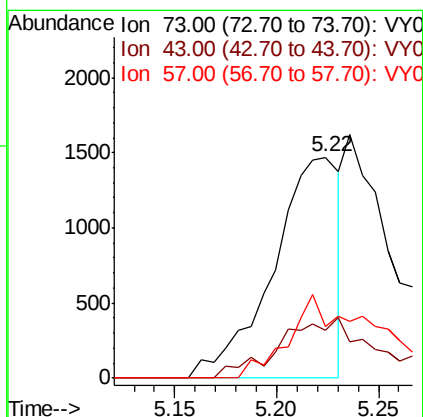
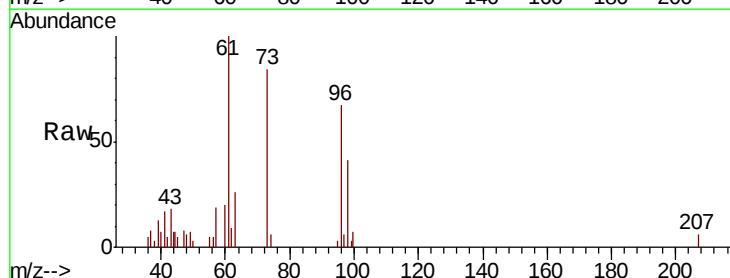
Instrument :
MSVOA_Y
ClientSampleId :
MDL06

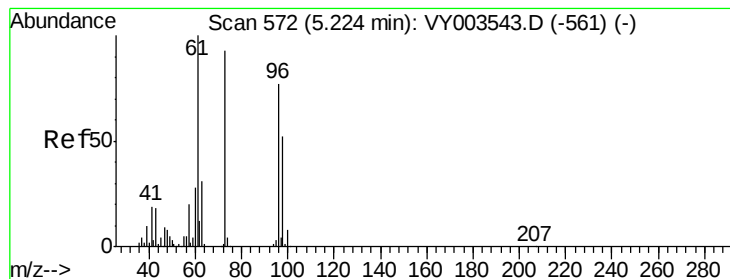
Tot Ion: 84 Resp: 11020
Ion Ratio Lower Upper
84 100
49 124.2 90.3 167.7
86 67.8 44.7 83.1



#17
Methyl tert-butyl Ether
Concen: 0.665 ug/L
RT: 5.22 min Scan# 572
Delta R.T. -0.01 min
Lab File: VY003553.D
Acq: 19 Nov 2020 17:16

Tgt Ion: 73 Resp: 3344
Ion Ratio Lower Upper
73 100
43 12.1 15.9 23.9#
57 20.9 10.5 15.7#





#18

trans-1,2-Dichloroethene

Concen: 0.931 ug/L

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

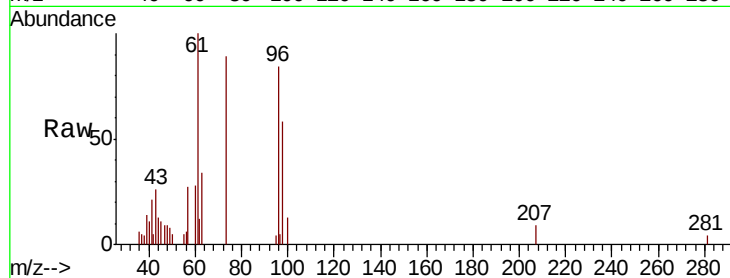
Tot Ion: 96 Resp: 3158

Ion Ratio Lower Upper

96 100

61 118.6 90.8 168.6

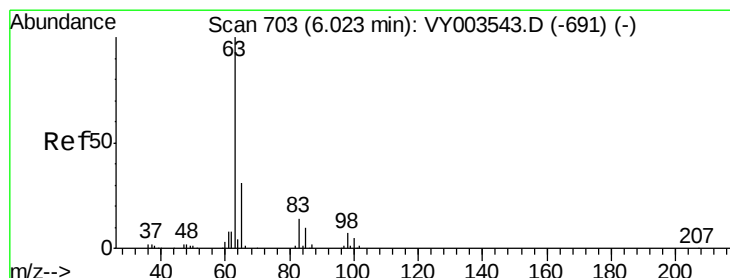
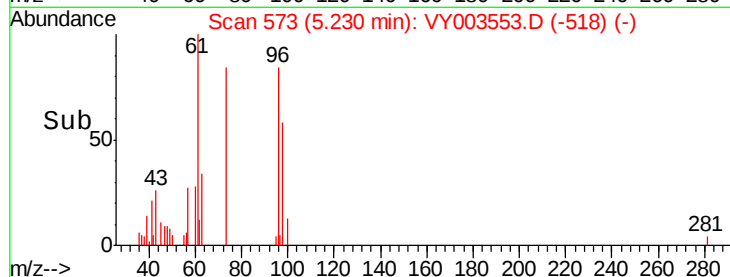
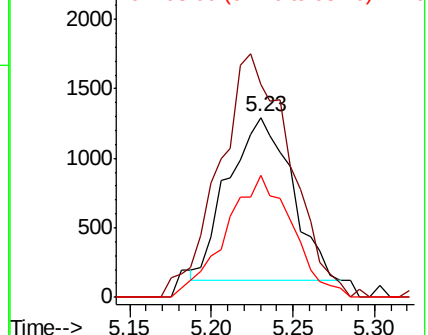
98 68.2 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 98.00 (97.70 to 98.70): VY0



#19

1,1-Dichloroethane

Concen: 0.655 ug/L

RT: 6.02 min Scan# 703

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

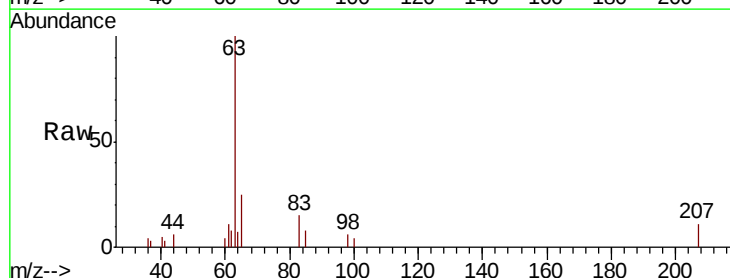
Tgt Ion: 63 Resp: 3755

Ion Ratio Lower Upper

63 100

65 24.8 22.0 40.8

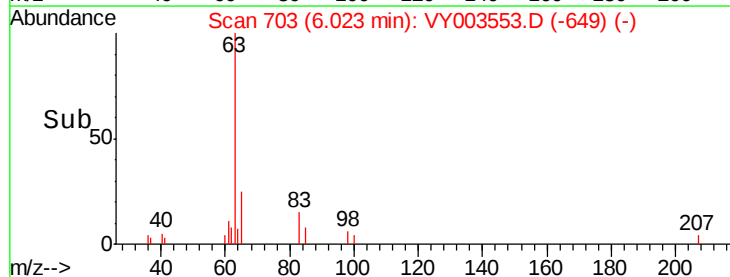
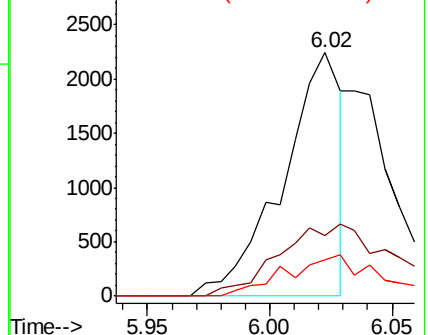
83 15.0 9.9 18.5

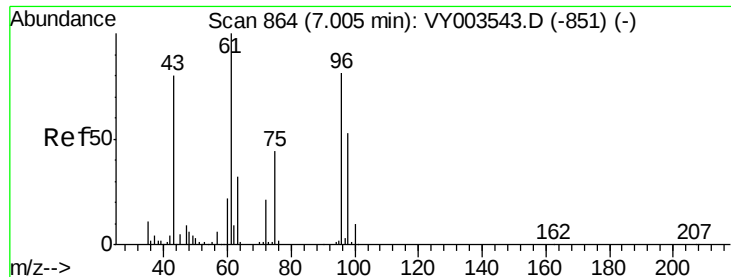


Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 65.00 (64.70 to 65.70): VY0

Ion 83.00 (82.70 to 83.70): VY0





#21

2-Butanone

Concen: 3.262 ug/L

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

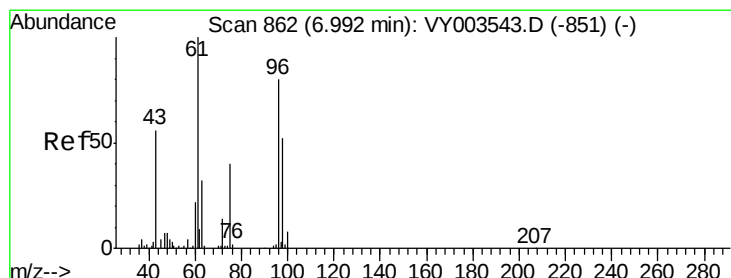
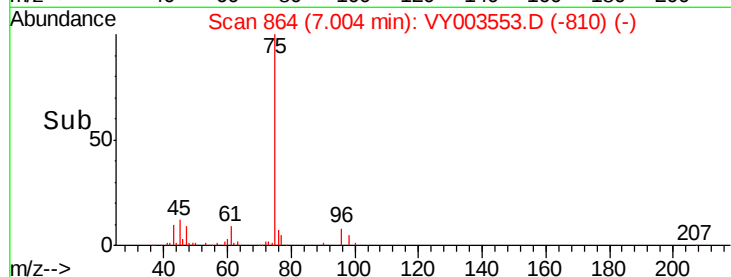
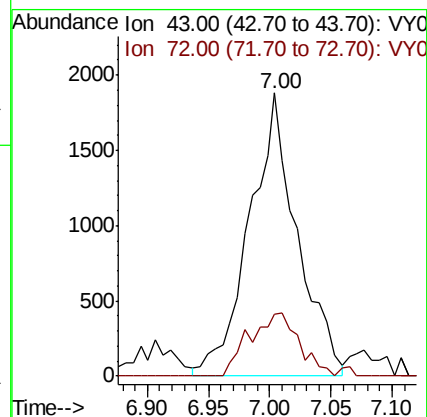
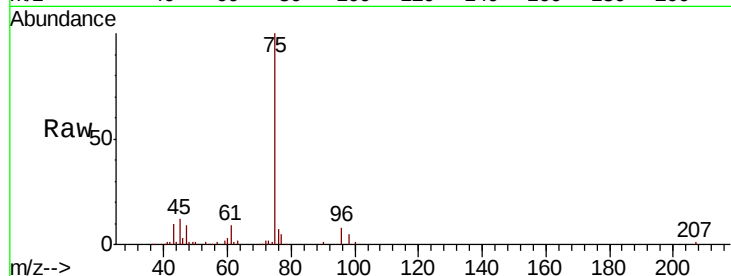
MDL06

Tot Ion: 43 Resp: 5096

Ion Ratio Lower Upper

43 100

72 17.7 13.2 39.6



#22

cis-1,2-Dichloroethene

Concen: 0.788 ug/L

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

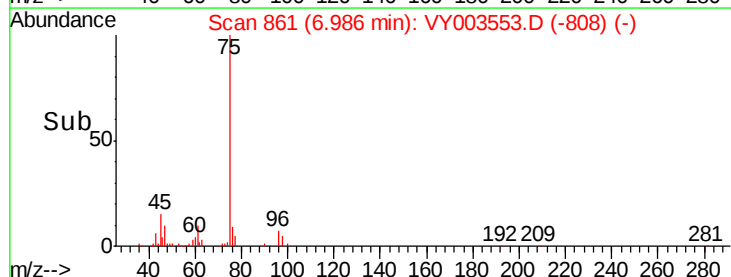
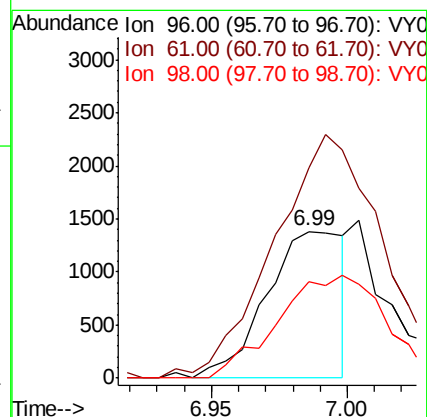
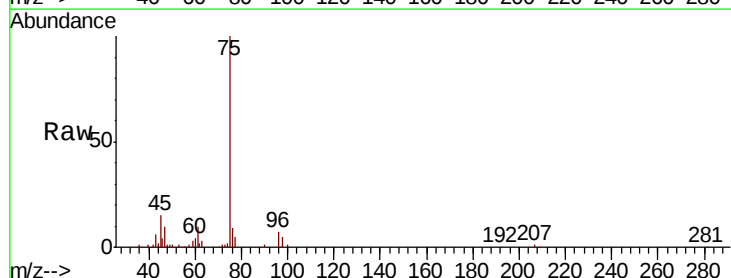
Tgt Ion: 96 Resp: 2748

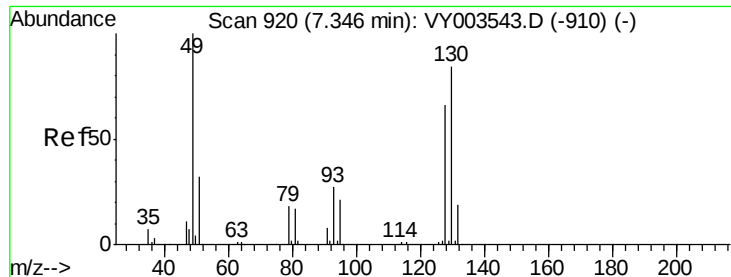
Ion Ratio Lower Upper

96 100

61 143.4 88.1 163.5

98 65.7 45.6 84.6





#23

Bromochloromethane

Concen: 1.091 ug/L

RT: 7.34 min Scan# 919

Delta R.T. -0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

Tot Ion:128 Resp: 1841

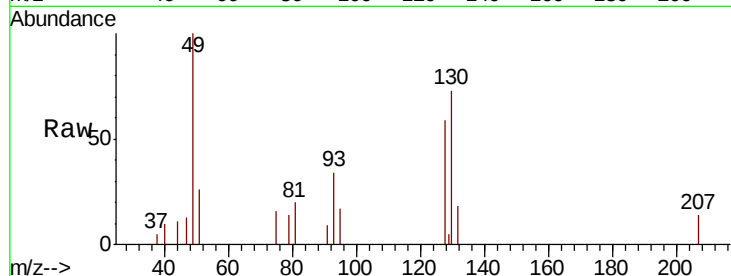
Ion Ratio Lower Upper

128 100

49 170.2 107.3 199.3

130 125.0 89.3 165.9

51 45.0 38.8 58.2

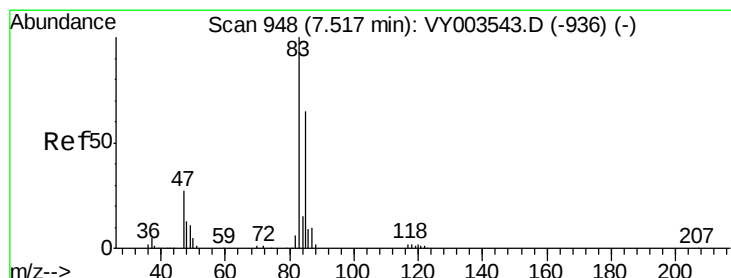
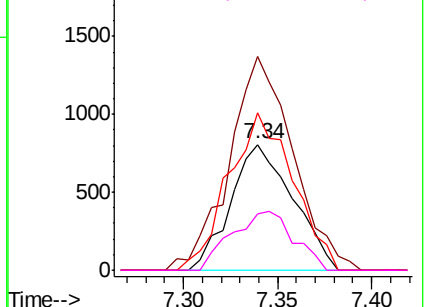
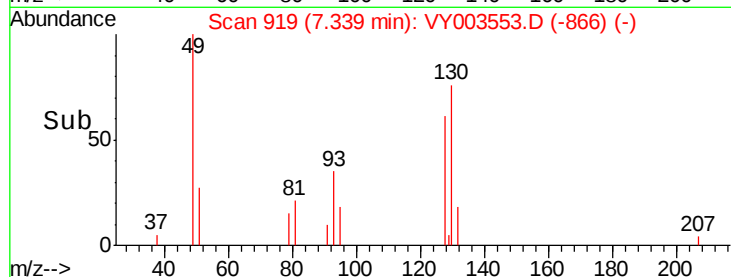


Abundance Ion 128.00 (127.70 to 128.70): VY003553.D (-866) (-)

Ion 49.00 (48.70 to 49.70): VY003553.D (-866) (-)

Ion 130.00 (129.70 to 130.70): VY003553.D (-866) (-)

Ion 51.00 (50.70 to 51.70): VY003553.D (-866) (-)



#25

Chloroform

Concen: 1.261 ug/L

RT: 7.52 min Scan# 948

Delta R.T. -0.00 min

Lab File: VY003553.D

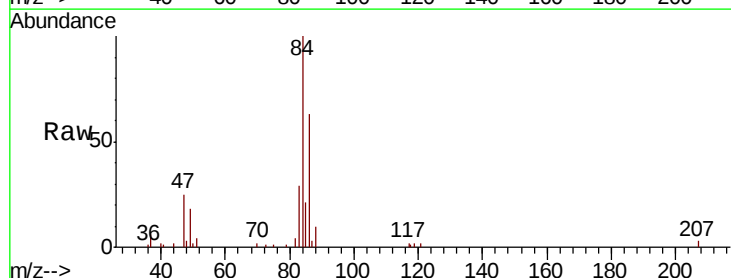
Acq: 19 Nov 2020 17:16

Tgt Ion: 83 Resp: 7186

Ion Ratio Lower Upper

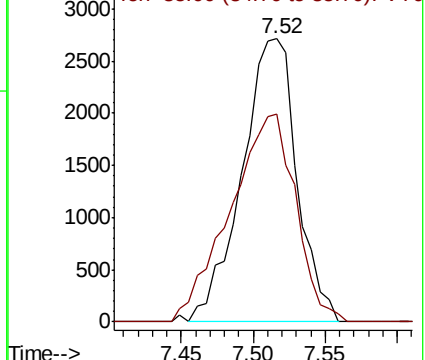
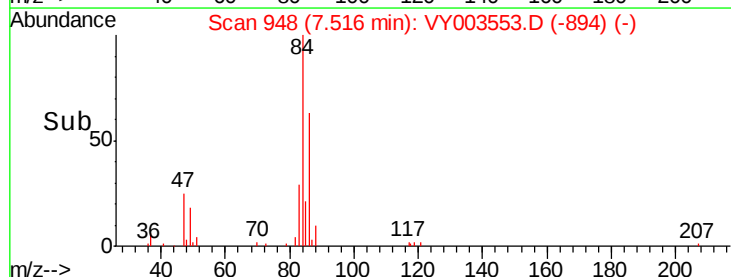
83 100

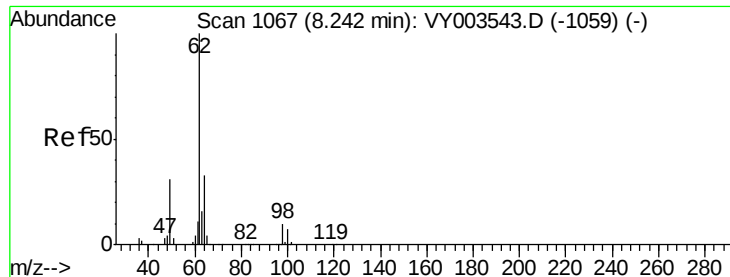
85 87.7 46.2 85.8#



Abundance Ion 83.00 (82.70 to 83.70): VY003553.D (-894) (-)

Ion 85.00 (84.70 to 85.70): VY003553.D (-894) (-)

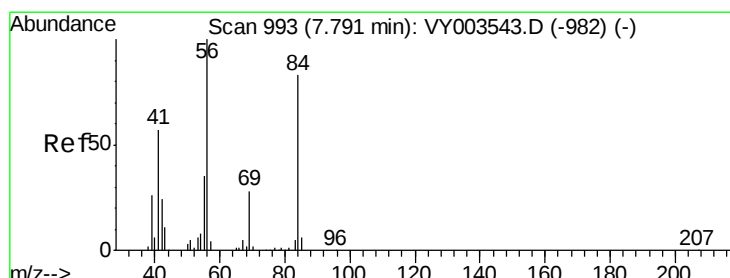
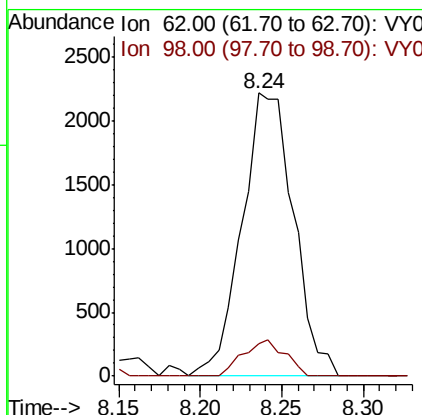
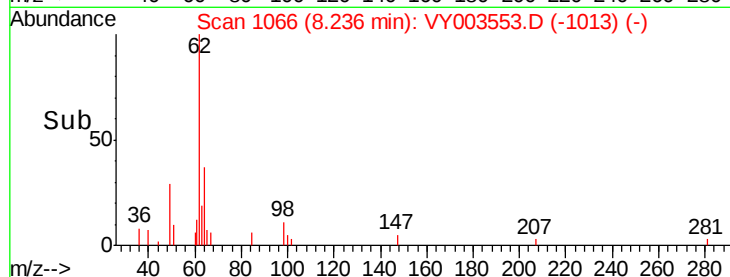
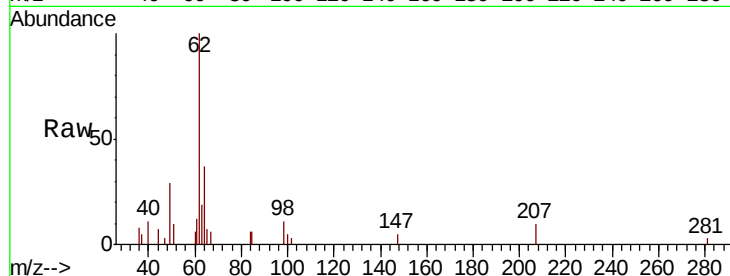




#27
 1,2-Dichloroethane
 Concen: 1.268 ug/L
 RT: 8.24 min Scan# 1066
 Delta R.T. -0.01 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

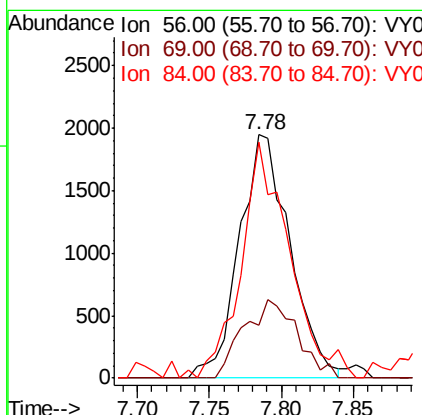
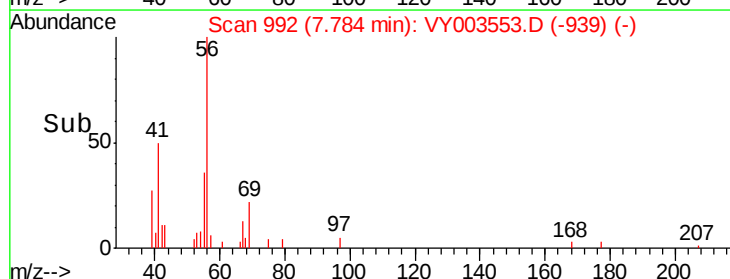
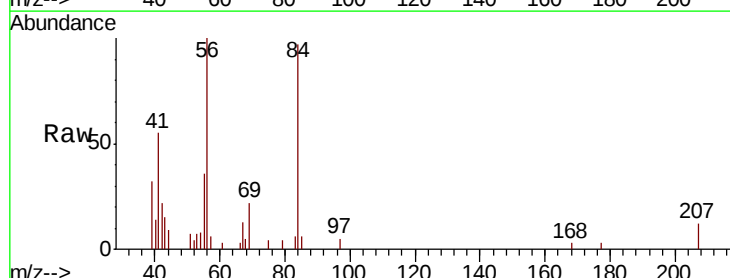
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL06

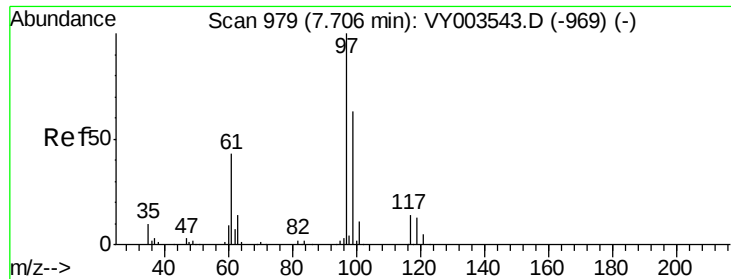
Tot Ion: 62 Resp: 4881
 Ion Ratio Lower Upper
 62 100
 98 11.3 7.7 11.5



#30
 Cyclohexane
 Concen: 0.923 ug/L
 RT: 7.78 min Scan# 992
 Delta R.T. -0.01 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Tgt Ion: 56 Resp: 4767
 Ion Ratio Lower Upper
 56 100
 69 21.1 23.3 34.9#
 84 89.4 69.9 104.9





#31

1,1,1-Trichloroethane

Concen: 1.081 ug/L

RT: 7.71 min Scan# 979

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

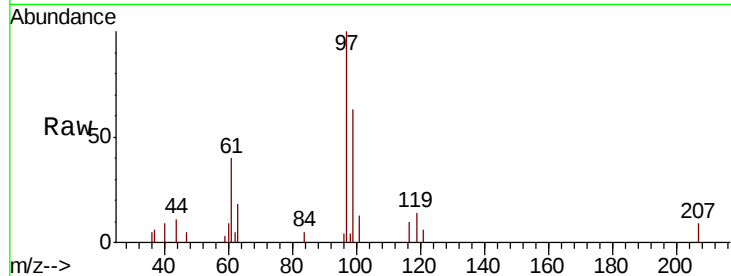
Tot Ion: 97 Resp: 4991

Ion Ratio Lower Upper

97 100

99 63.4 52.1 78.1

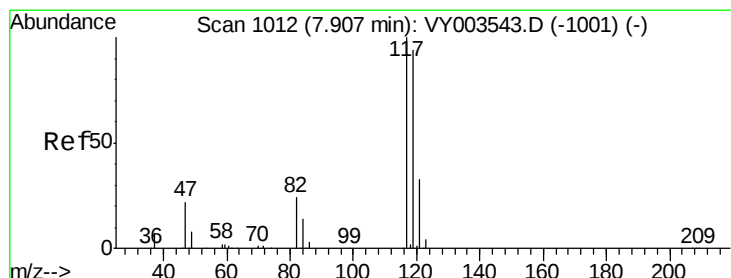
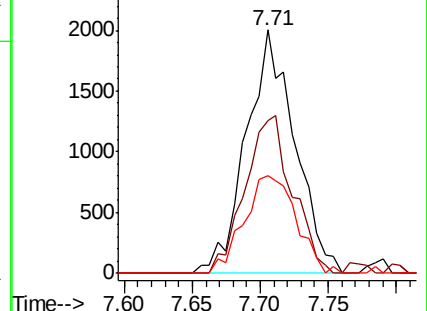
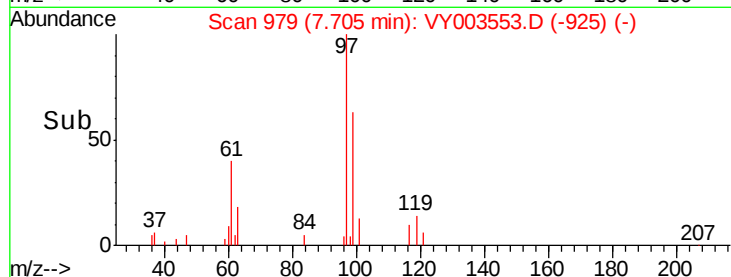
61 42.7 34.9 52.3



Abundance Ion 97.00 (96.70 to 97.70): VY003553.D (-925) (-)

Ion 99.00 (98.70 to 99.70): VY003553.D (-925) (-)

Ion 61.00 (60.70 to 61.70): VY003553.D (-925) (-)



#32

Carbon tetrachloride

Concen: 1.088 ug/L

RT: 7.91 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VY003553.D

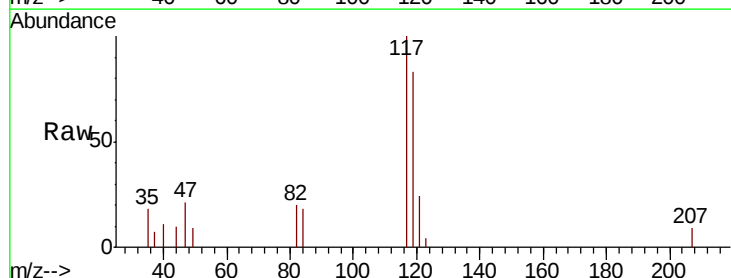
Acq: 19 Nov 2020 17:16

Tgt Ion: 117 Resp: 4778

Ion Ratio Lower Upper

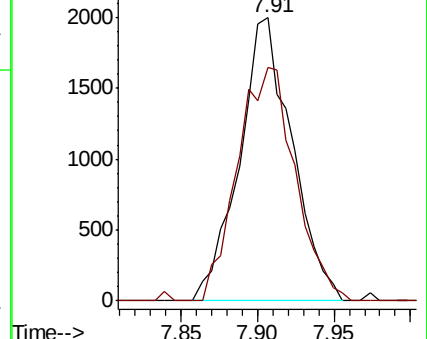
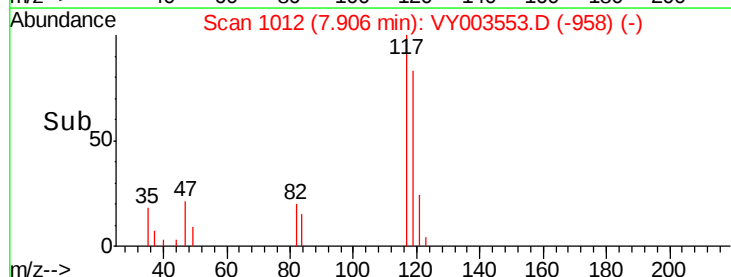
117 100

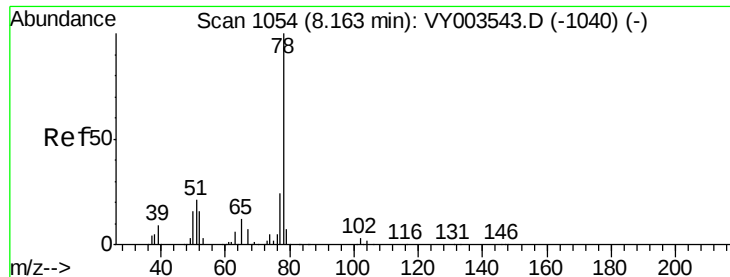
119 90.8 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): VY003553.D (-958) (-)

Ion 119.00 (118.70 to 119.70): VY003553.D (-958) (-)





#34

Benzene

Concen: 1.139 ug/L

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

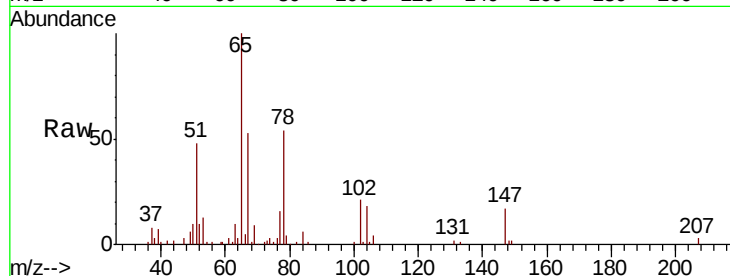
Instrument :

MSVOA_Y

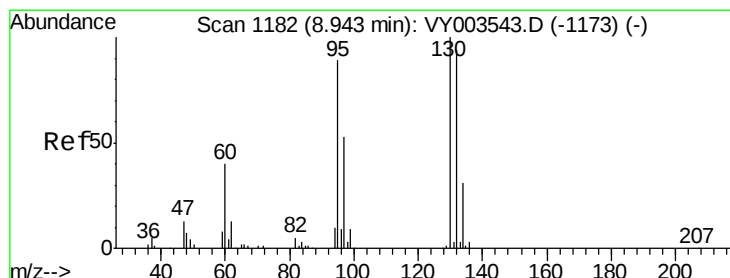
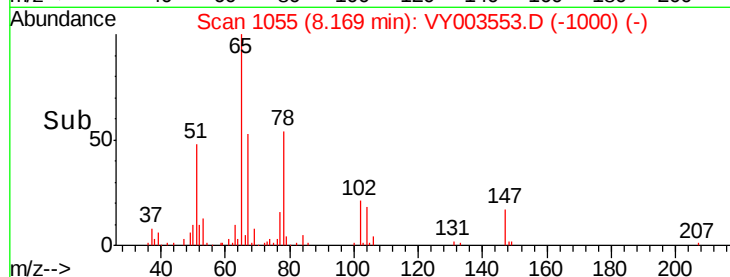
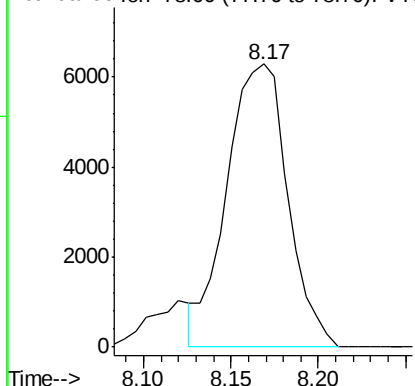
ClientSampled :

MDL06

Tgt Ion: 78 Resp: 15259



Abundance Ion 78.00 (77.70 to 78.70): VY0



#35

Trichloroethene

Concen: 1.119 ug/L

RT: 8.95 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Tgt Ion: 95 Resp: 3795

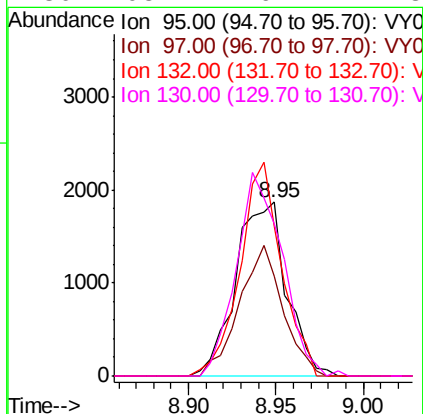
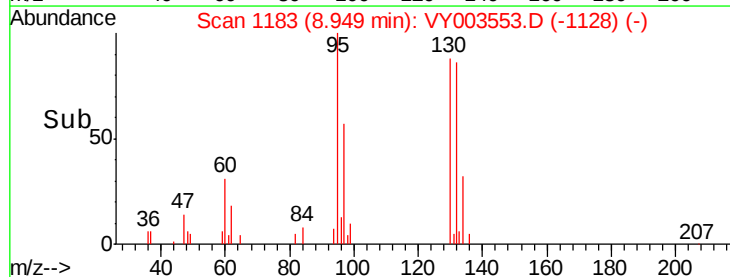
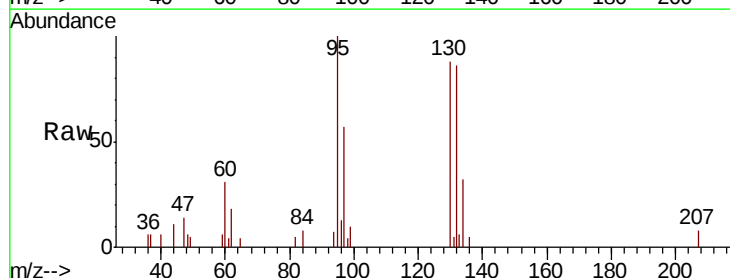
Ion	Ratio	Lower	Upper
95	100		
97	64.0	44.5	82.7
132	99.9	73.1	135.7
130	105.2	76.1	141.3

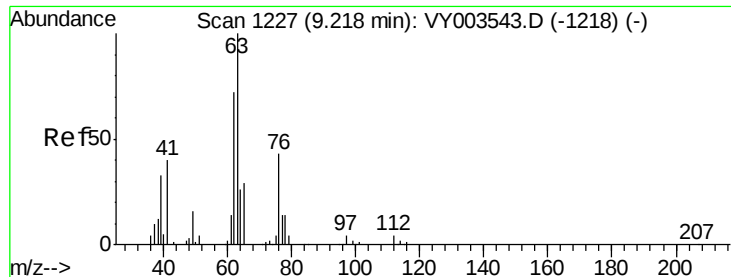
Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0

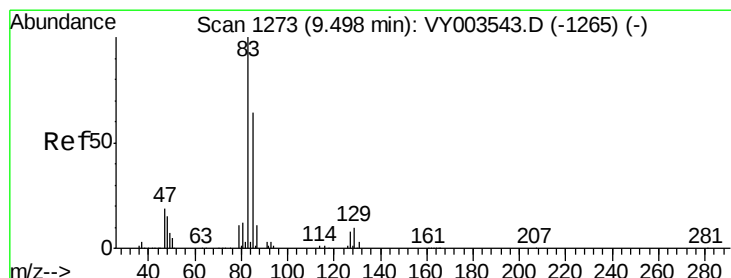
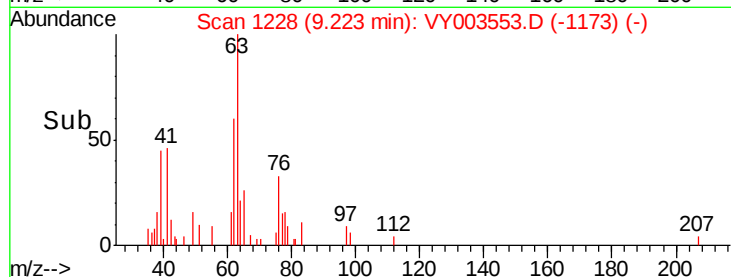
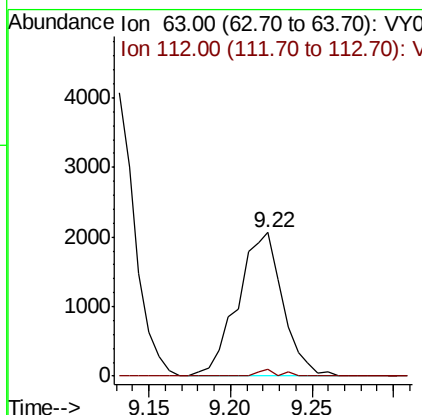
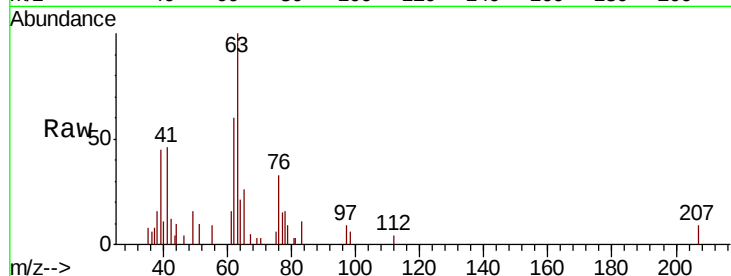




#40
 1,2-Dichloropropane
 Concen: 1.206 ug/L
 RT: 9.22 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

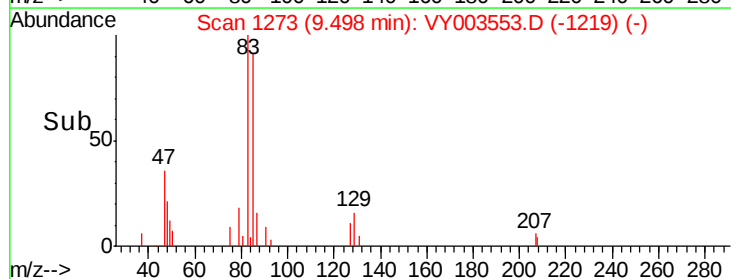
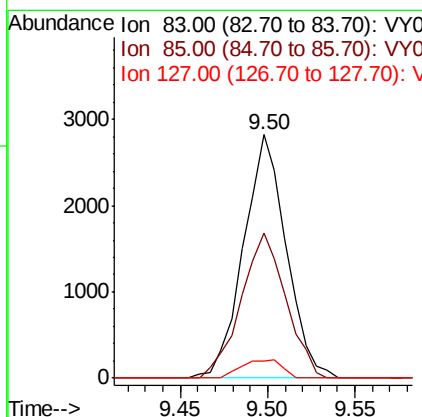
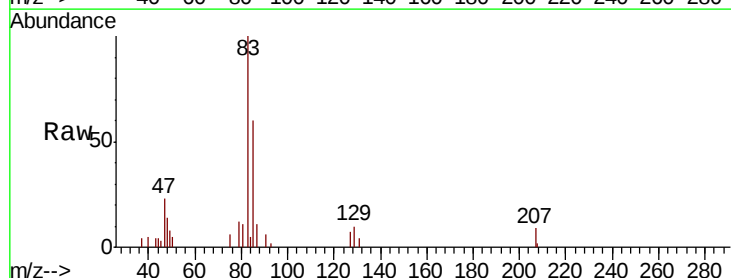
Instrument :
 MSVOA_Y
 ClientSampled :
 MDL06

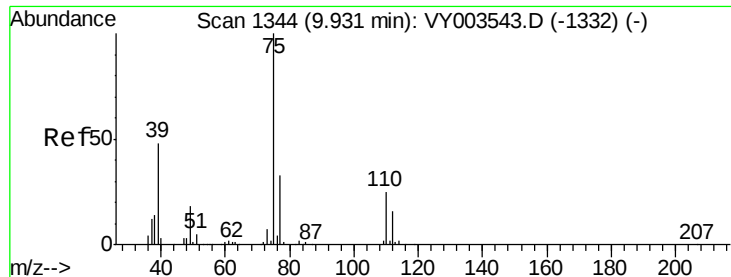
Tot Ion: 63 Resp: 3983
 Ion Ratio Lower Upper
 63 100
 112 1.4 3.5 5.3#



#41
 Bromodichloromethane
 Concen: 1.137 ug/L
 RT: 9.50 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Tgt Ion: 83 Resp: 4790
 Ion Ratio Lower Upper
 83 100
 85 59.6 45.1 83.7
 127 7.0 6.8 10.2



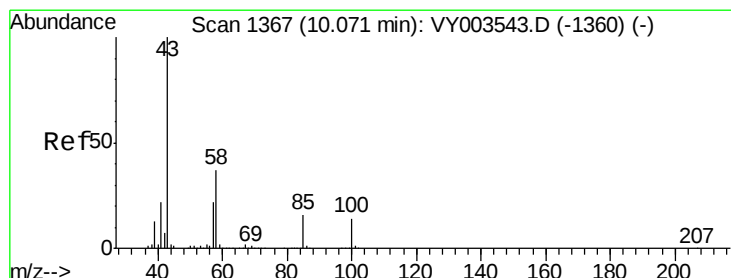
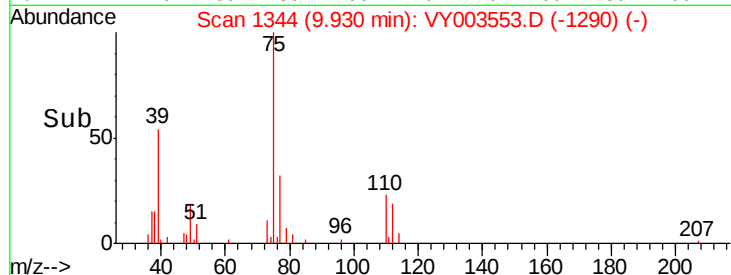
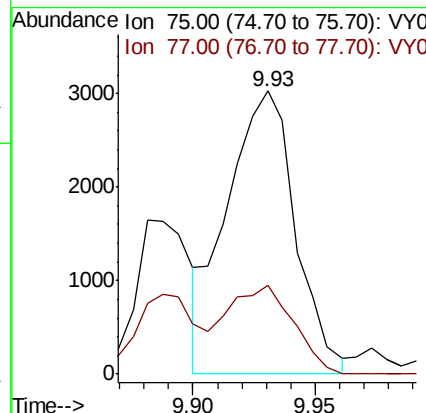
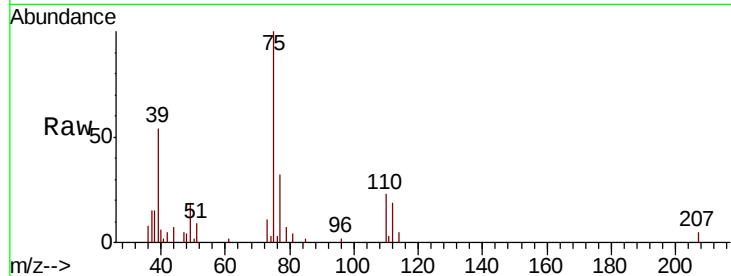


#42

cis-1,3-Dichloropropene
 Concen: 1.130 ug/L
 RT: 9.93 min Scan# 1344
 Delta R.T. -0.00 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Instrument :
 MSVOA_Y
 ClientSampled :
 MDL06

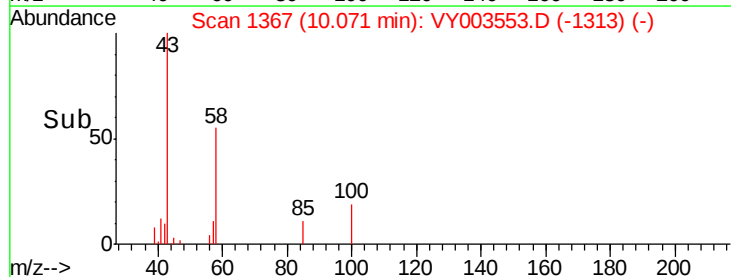
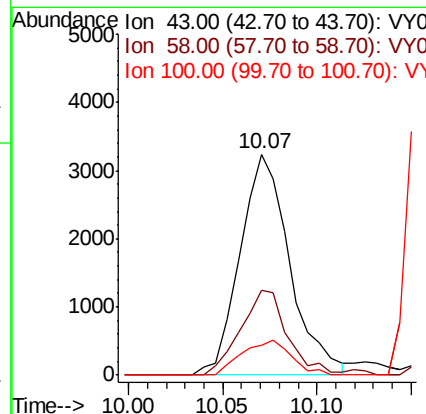
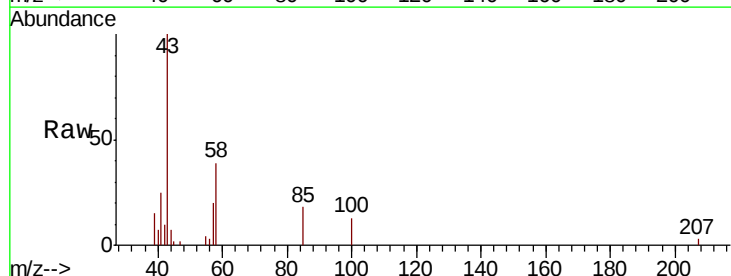
Tot Ion: 75 Resp: 5882
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.2 43.0

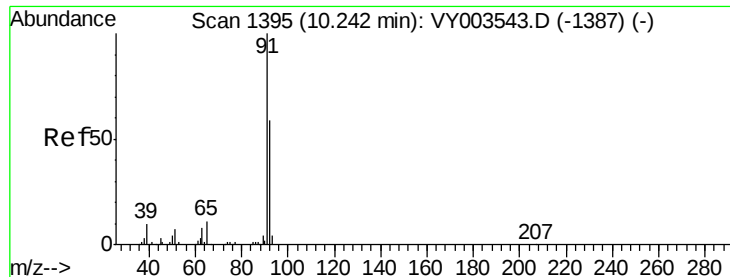


#43

4-Methyl-2-pentanone
 Concen: 2.141 ug/L
 RT: 10.07 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Tgt Ion: 43 Resp: 5914
 Ion Ratio Lower Upper
 43 100
 58 36.3 30.2 45.2
 100 15.6 11.7 17.5





#44

Toluene

Concen: 1.135 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampled :

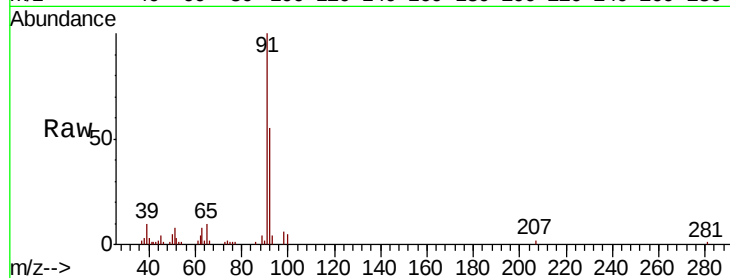
MDL06

Tot Ion: 91 Resp: 16023

Ion Ratio Lower Upper

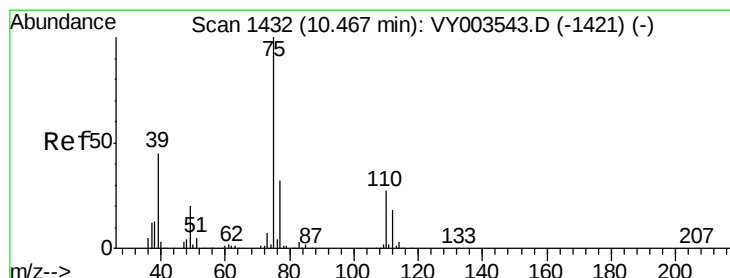
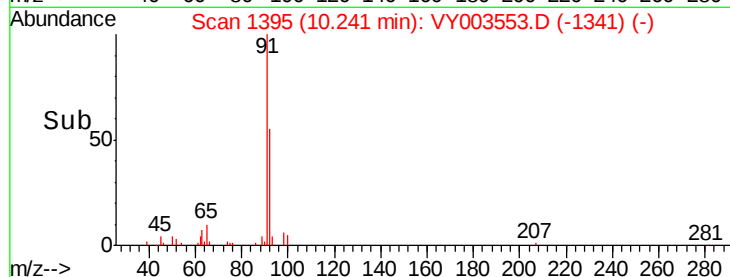
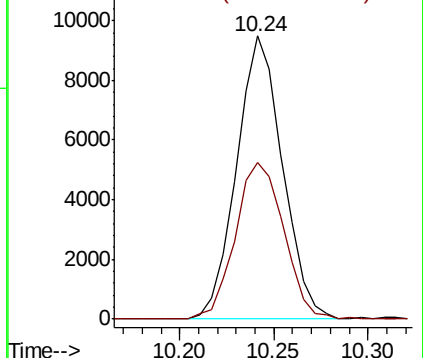
91 100

92 55.4 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0



#45

trans-1,3-Dichloropropene

Concen: 1.539 ug/L

RT: 10.46 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VY003553.D

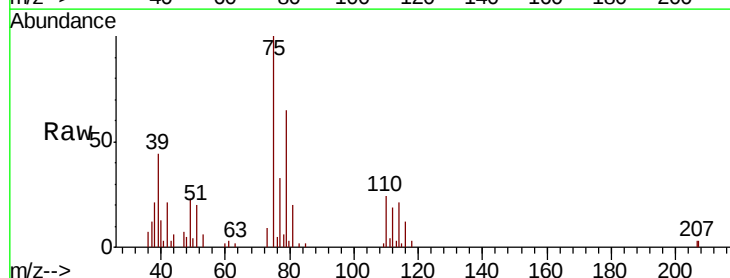
Acq: 19 Nov 2020 17:16

Tgt Ion: 75 Resp: 7381

Ion Ratio Lower Upper

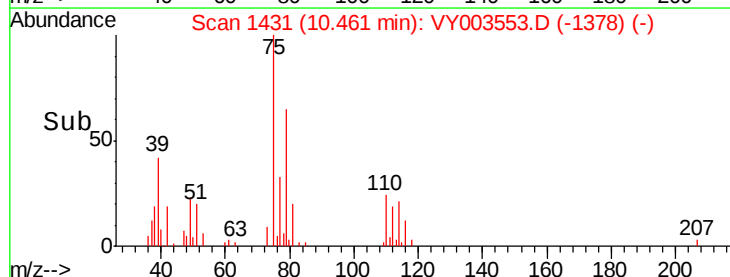
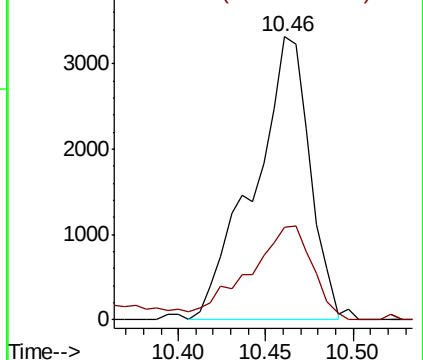
75 100

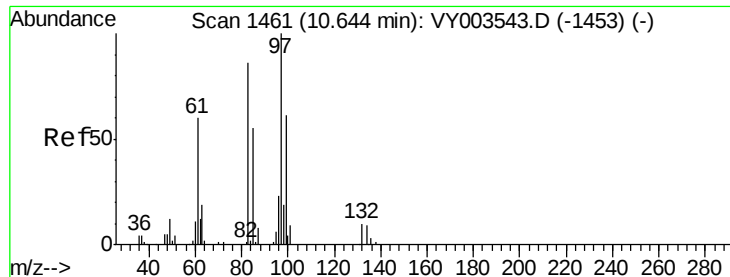
77 32.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0

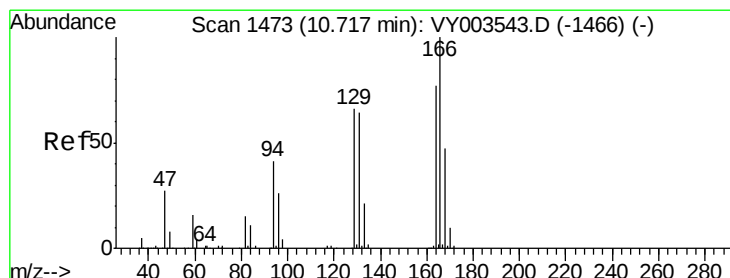
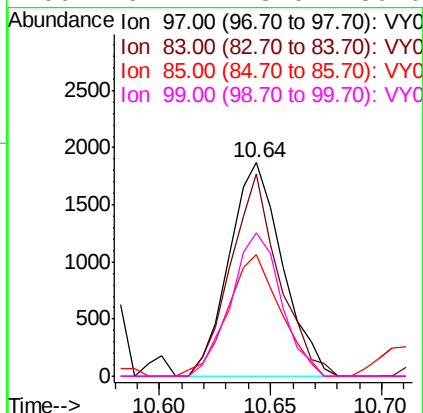
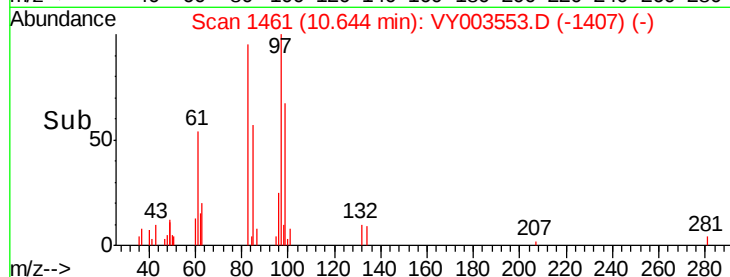
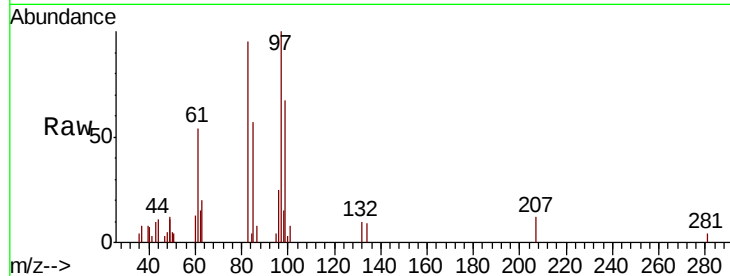




#46
1,1,2-Trichloroethane
Concen: 1.180 ug/L
RT: 10.64 min Scan# 1461
Delta R.T. -0.00 min
Lab File: VY003553.D
Acq: 19 Nov 2020 17:16

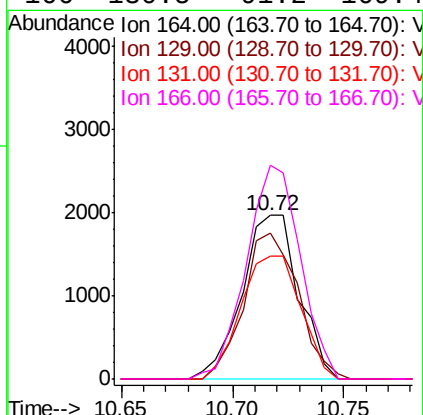
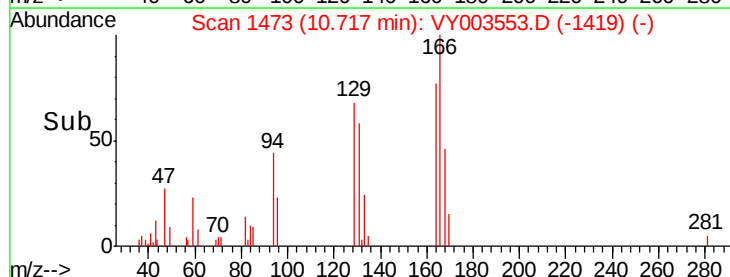
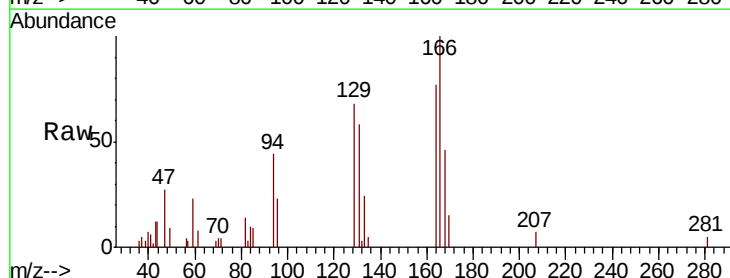
Instrument :
MSVOA_Y
ClientSampleId :
MDL06

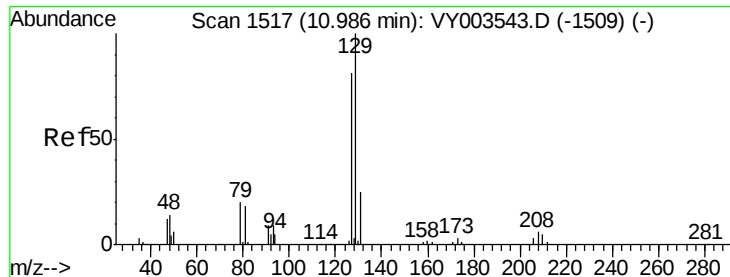
Tot Ion: 97 Resp: 3112
Ion Ratio Lower Upper
97 100
83 94.6 60.1 111.5
85 57.0 38.9 72.2
99 67.4 43.0 80.0



#47
Tetrachloroethene
Concen: 1.192 ug/L
RT: 10.72 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VY003553.D
Acq: 19 Nov 2020 17:16

Tgt Ion: 164 Resp: 3514
Ion Ratio Lower Upper
164 100
129 88.9 60.6 112.6
131 75.1 58.7 109.1
166 130.5 91.2 169.4





#50

Dibromochloromethane

Concen: 1.187 ug/L

RT: 10.98 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

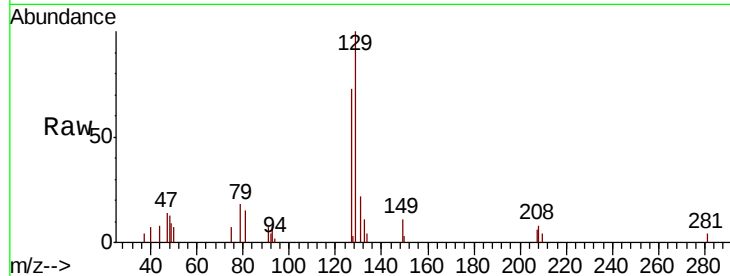
MDL06

Tot Ion:129 Resp: 3777

Ion Ratio Lower Upper

129 100

127 72.8 56.6 105.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.98

2500

2000

1500

1000

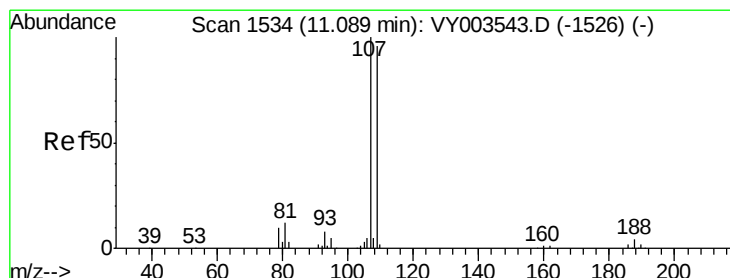
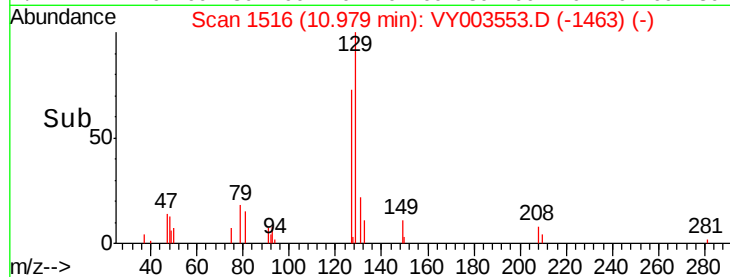
500

0

10.95

11.00

Time-->



#51

1,2-Dibromoethane

Concen: 1.178 ug/L

RT: 11.08 min Scan# 1533

Delta R.T. -0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

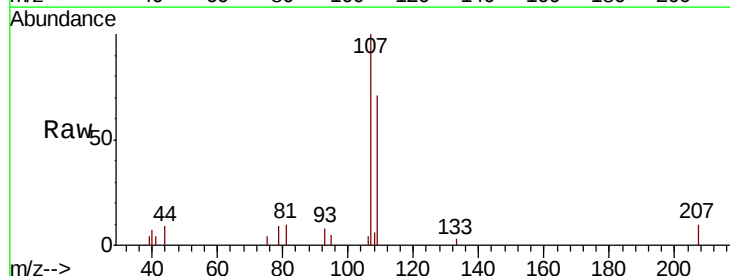
Tgt Ion:107 Resp: 3098

Ion Ratio Lower Upper

107 100

109 70.9 66.8 124.2

188 0.0 3.3 4.9#



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

11.08

2500

2000

1500

1000

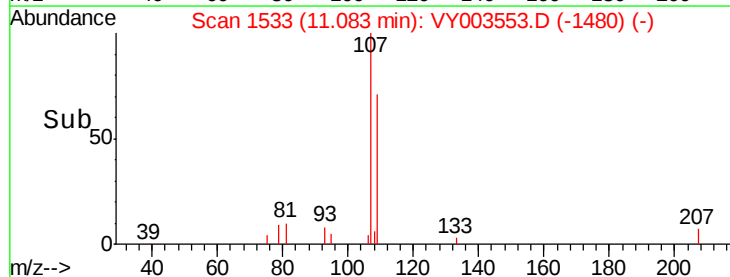
500

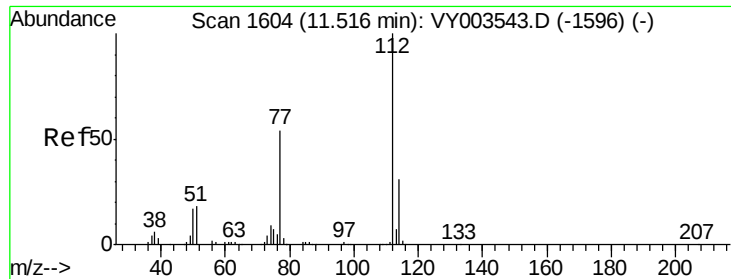
0

11.05

11.10

Time-->





#52

Chlorobenzene

Concen: 1.088 ug/L

RT: 11.52 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

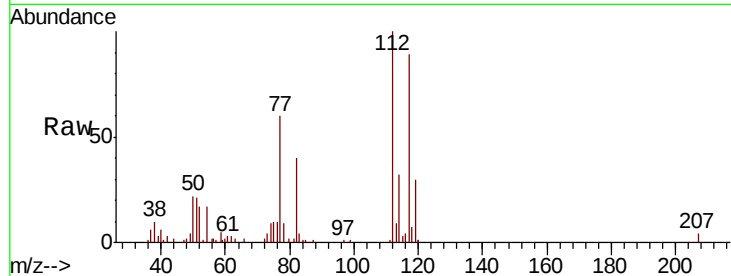
Tot Ion:112 Resp: 9812

Ion Ratio Lower Upper

112 100

77 60.0 43.3 64.9

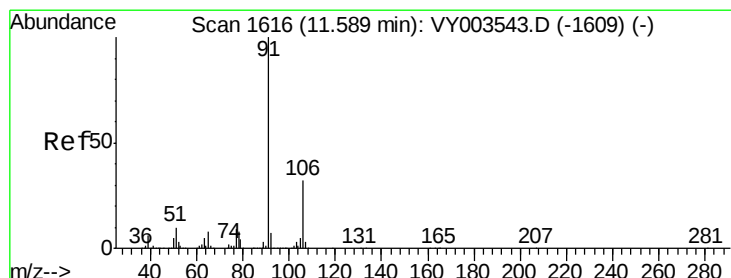
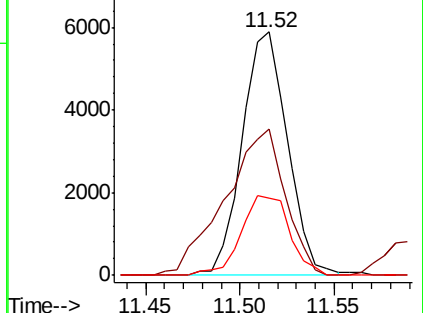
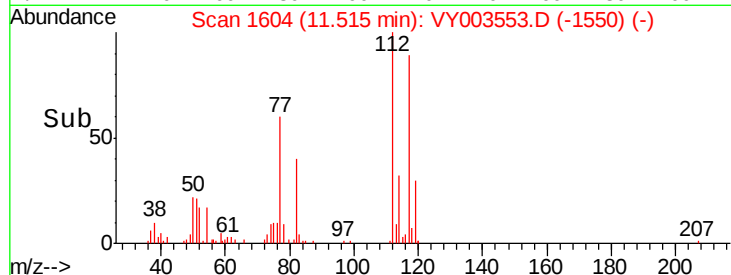
114 31.5 21.9 40.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 1.059 ug/L

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VY003553.D

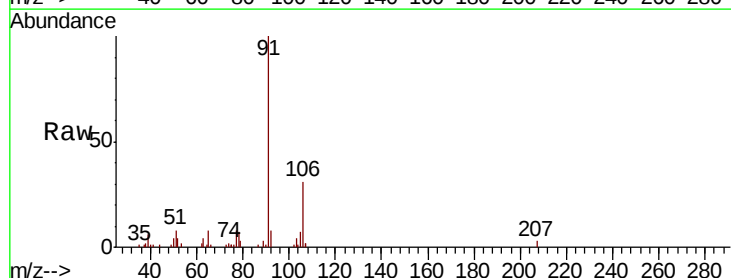
Acq: 19 Nov 2020 17:16

Tgt Ion: 91 Resp: 15352

Ion Ratio Lower Upper

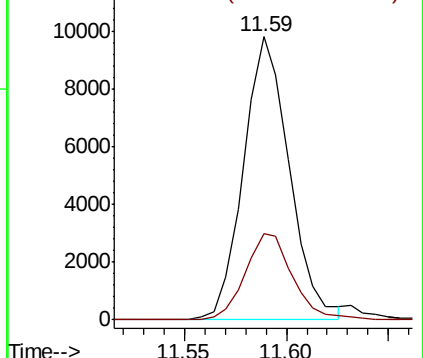
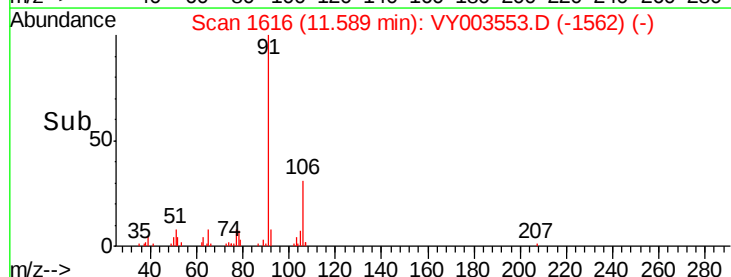
91 100

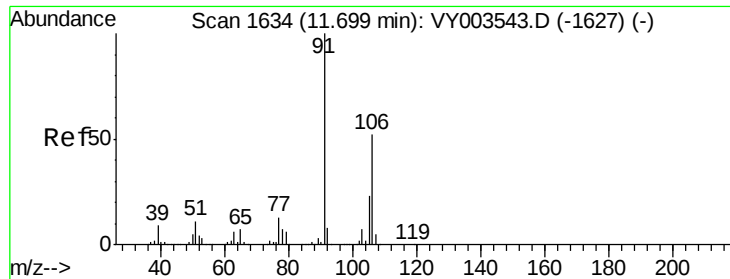
106 30.7 22.5 41.7



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 1.070 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

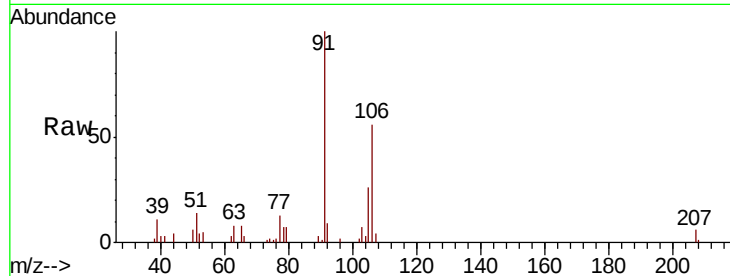
MDL06

Tot Ion:106 Resp: 5972

Ion Ratio Lower Upper

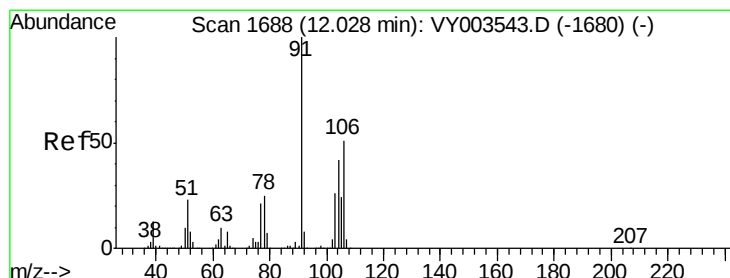
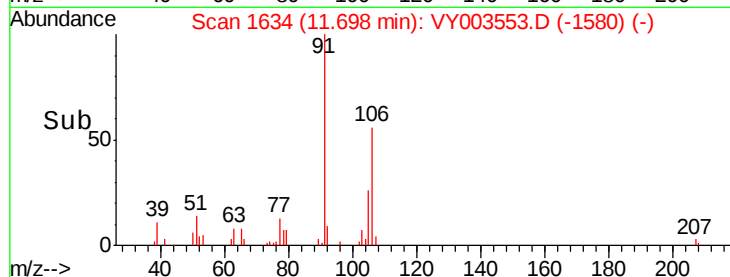
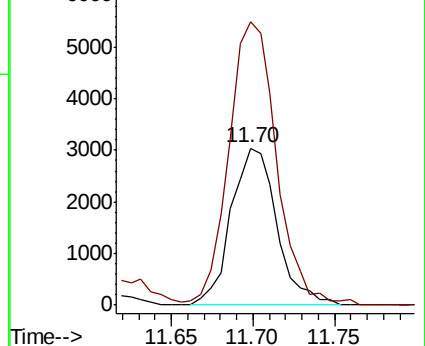
106 100

91 180.0 135.6 251.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

o-xylene

Concen: 1.023 ug/L

RT: 12.03 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VY003553.D

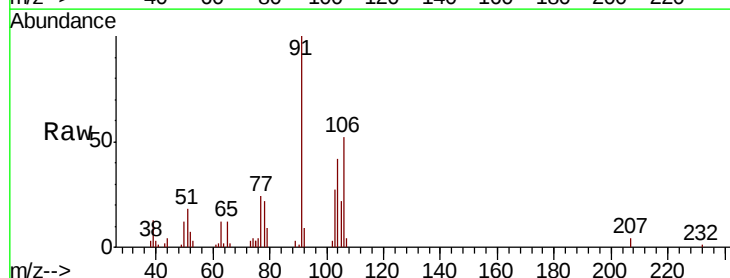
Acq: 19 Nov 2020 17:16

Tgt Ion:106 Resp: 4768

Ion Ratio Lower Upper

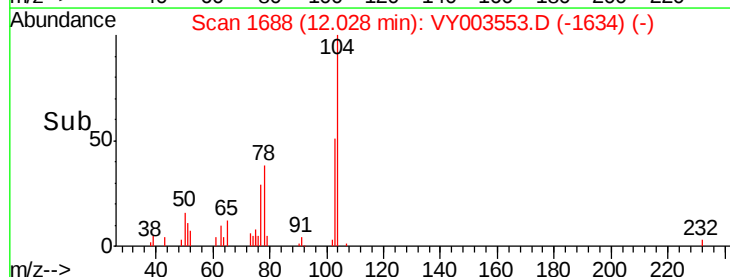
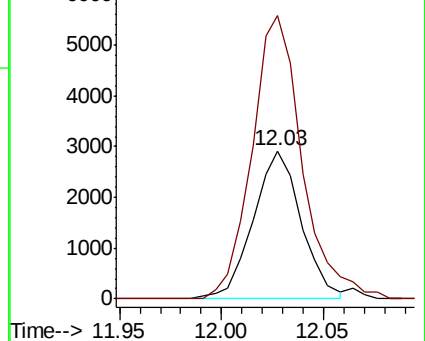
106 100

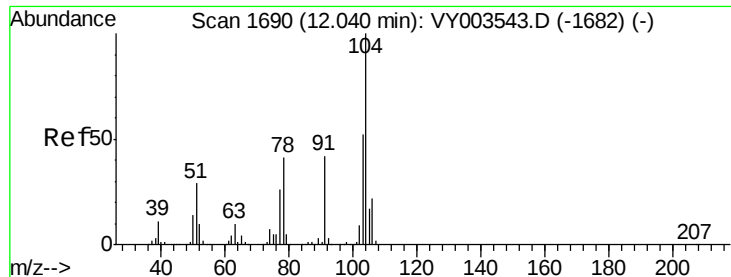
91 191.4 138.3 256.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#56

Stvrene

Concen: 1.000 ug/L

RT: 12.04 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

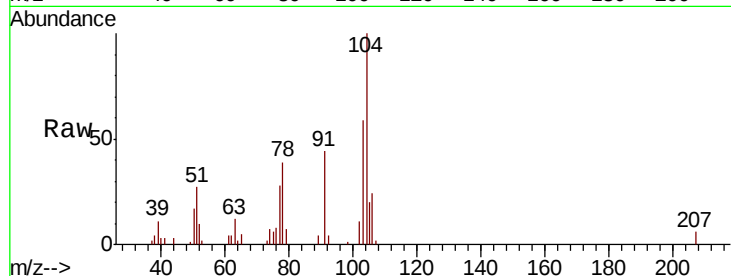
MDL06

Tot Ion:104 Resp: 9126

Ion Ratio Lower Upper

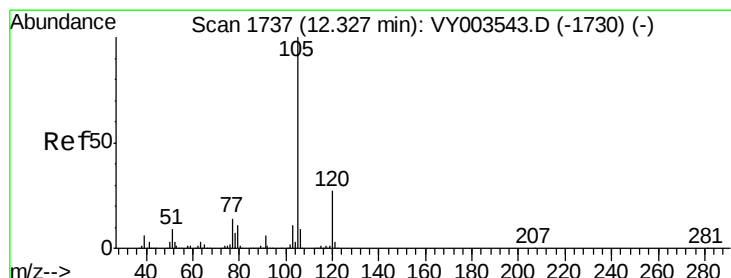
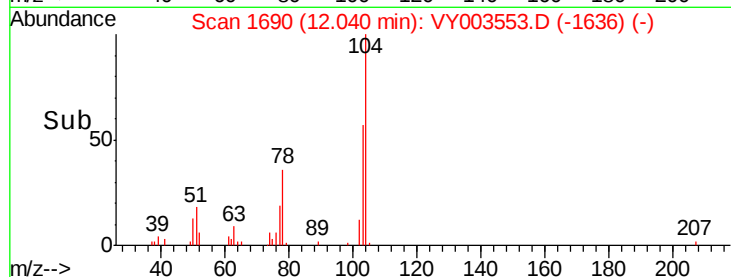
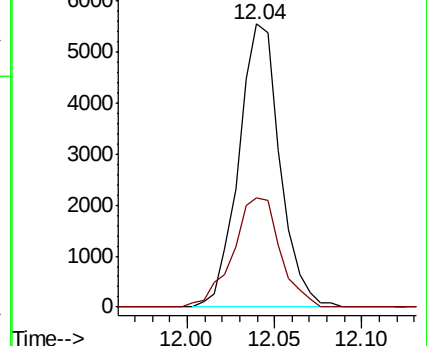
104 100

78 38.7 28.8 53.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0



#57

Isopropylbenzene

Concen: 0.967 ug/L

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

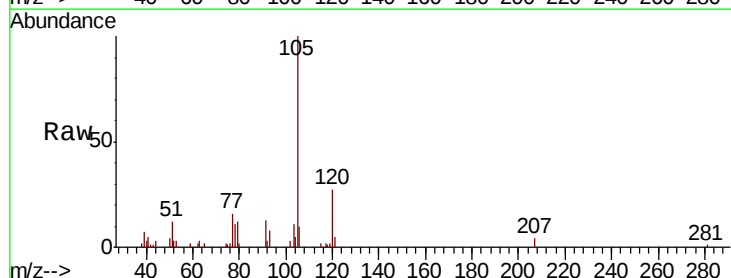
Tgt Ion:105 Resp: 10192

Ion Ratio Lower Upper

105 100

120 26.6 21.7 32.5

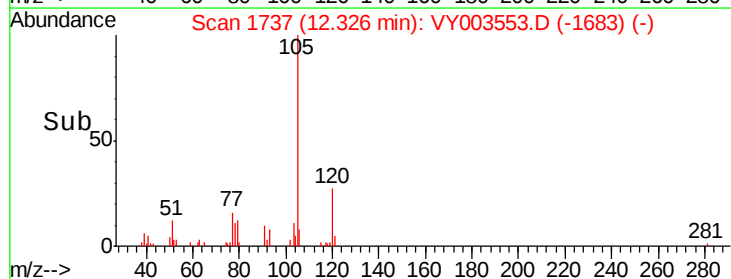
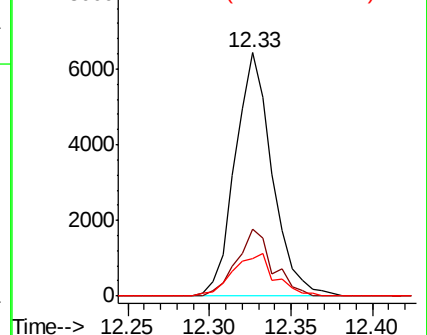
77 19.4 12.1 18.1#

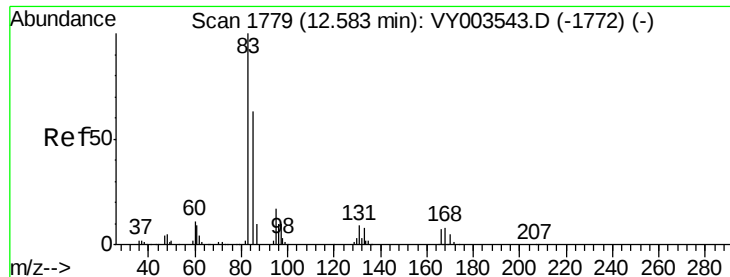


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VY0





#58

1,1,2,2-Tetrachloroethane

Concen: 1.317 ug/L

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

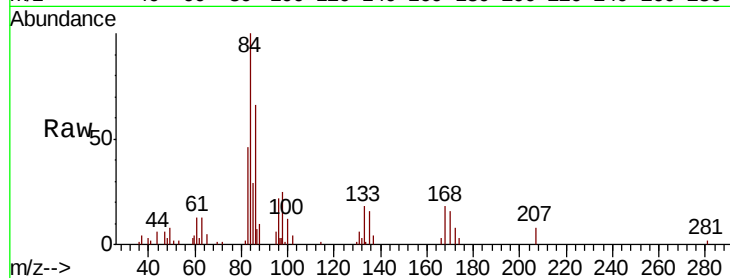
Tot Ion: 83 Resp: 4098

Ion Ratio Lower Upper

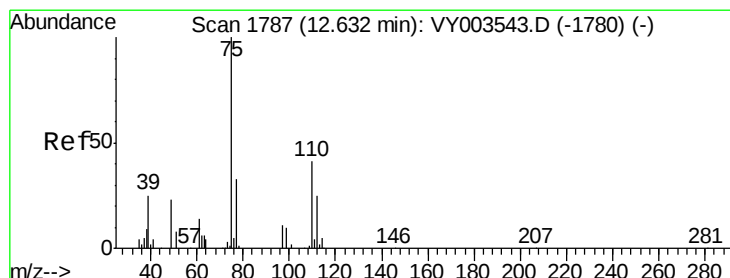
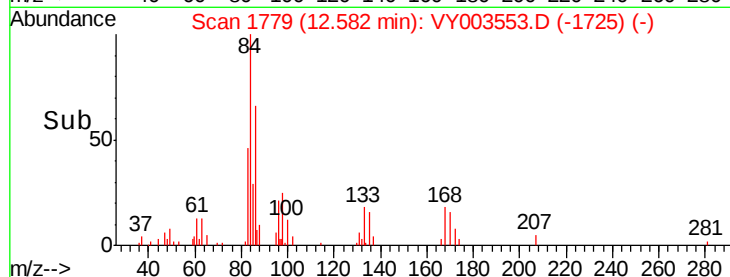
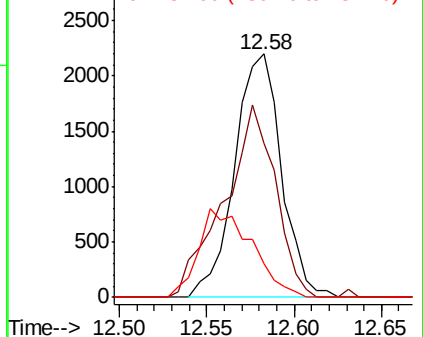
83 100

85 63.5 44.8 83.2

131 19.8 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 85.00 (84.70 to 85.70): VY0
Ion 131.00 (130.70 to 131.70): V



#59

1,2,3-Trichloropropane

Concen: 1.180 ug/L

RT: 12.63 min Scan# 1787

Delta R.T. -0.00 min

Lab File: VY003553.D

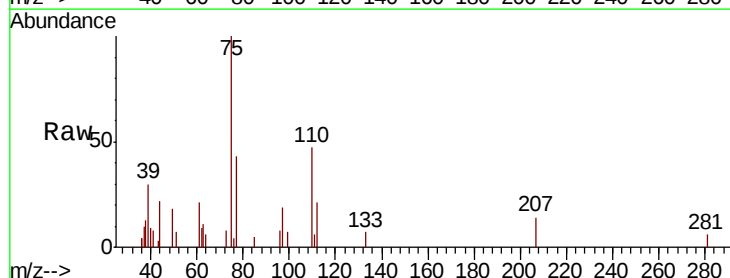
Acq: 19 Nov 2020 17:16

Tgt Ion: 75 Resp: 2860

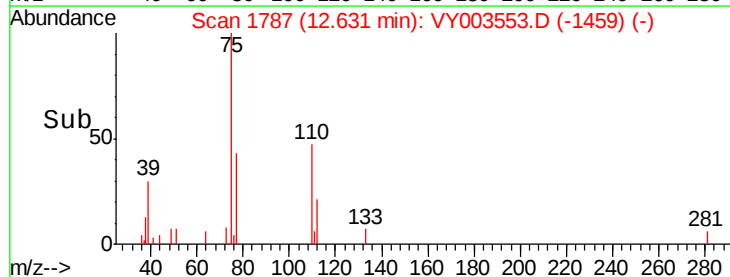
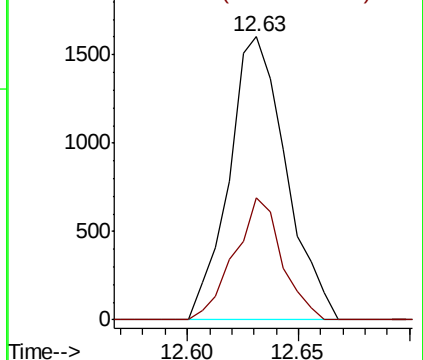
Ion Ratio Lower Upper

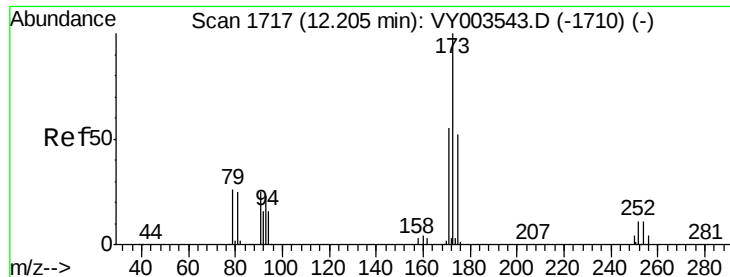
75 100

77 35.8 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VY0
Ion 77.00 (76.70 to 77.70): VY0





#62

Bromoform

Concen: 1.165 ug/L

RT: 12.20 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

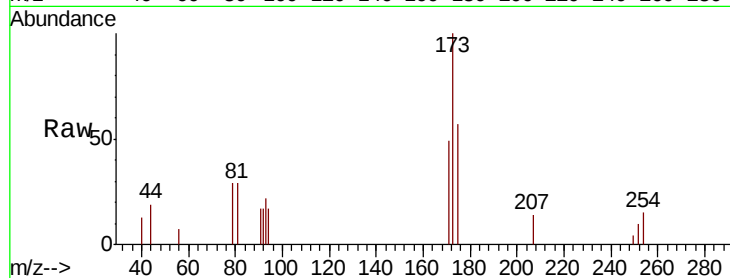
Tot Ion:173 Resp: 2420

Ion Ratio Lower Upper

173 100

175 47.6 39.5 59.3

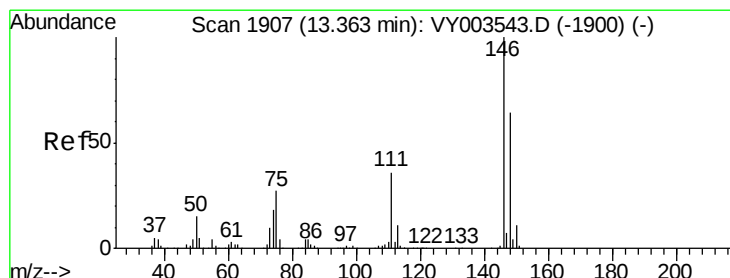
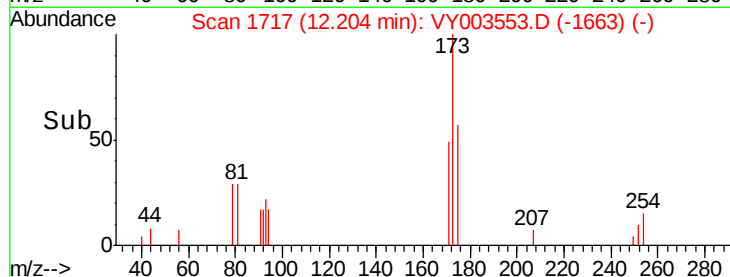
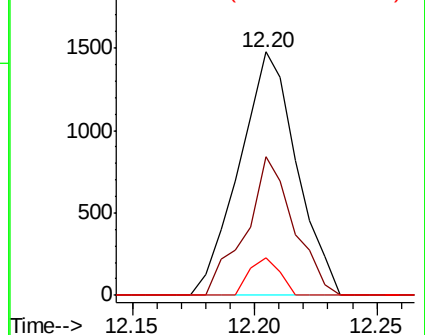
254 8.1 8.6 12.8#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 1.166 ug/L

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

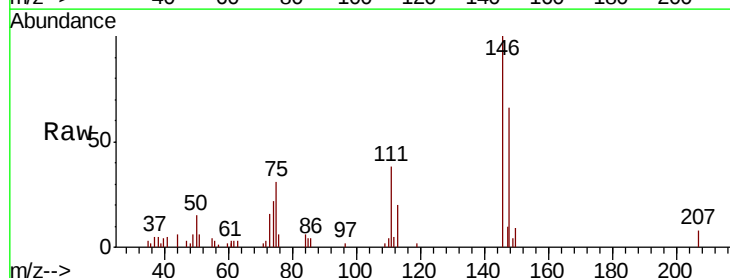
Tgt Ion:146 Resp: 7531

Ion Ratio Lower Upper

146 100

111 38.0 25.1 46.5

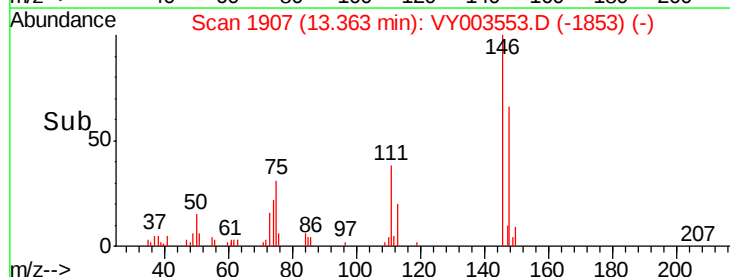
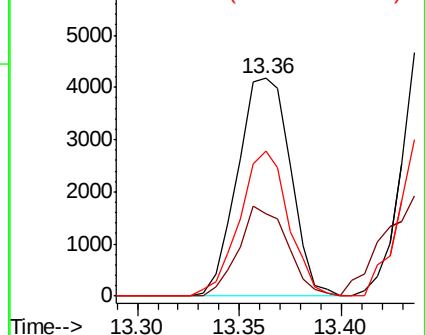
148 66.3 44.7 82.9

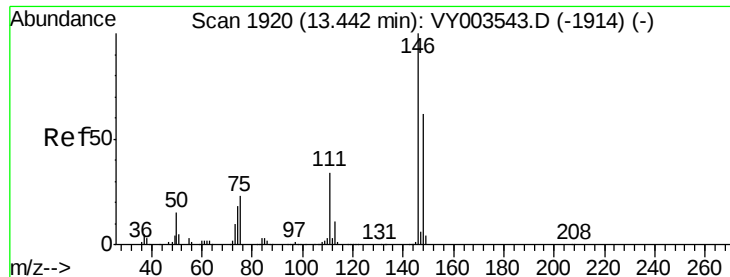


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 1.161 ug/L

RT: 13.44 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

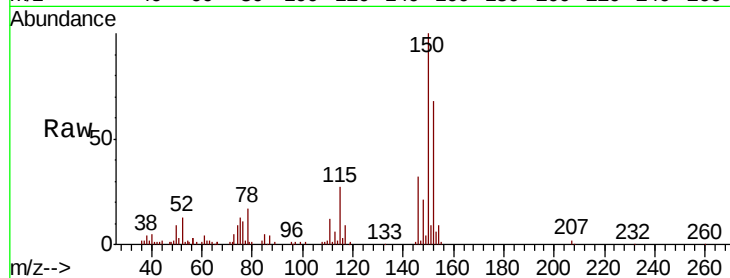
Tot Ion:146 Resp: 7720

Ion Ratio Lower Upper

146 100

111 38.9 24.1 44.8

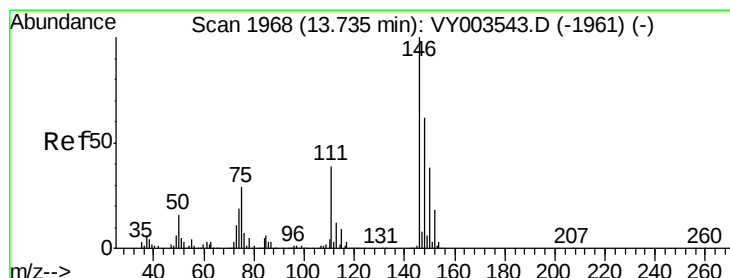
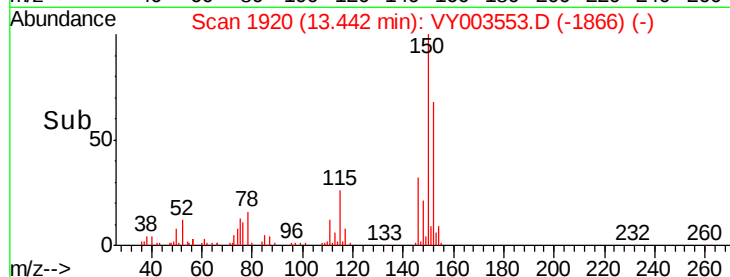
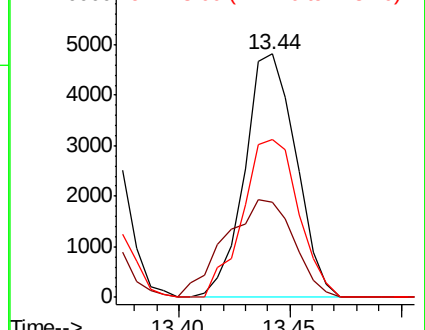
148 65.0 43.6 81.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.175 ug/L

RT: 13.73 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

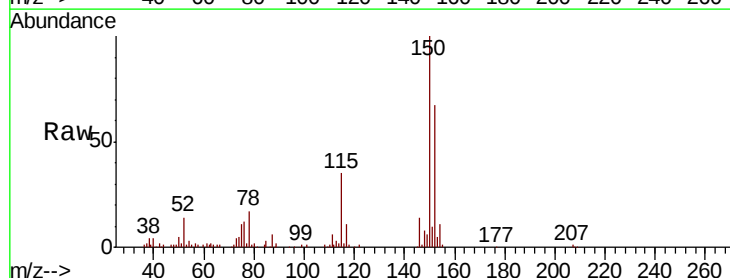
Tgt Ion:146 Resp: 6251

Ion Ratio Lower Upper

146 100

111 40.1 31.0 46.6

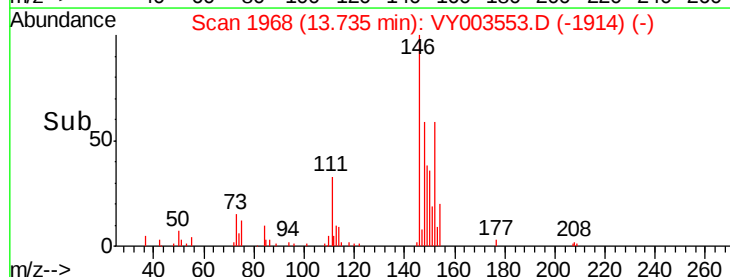
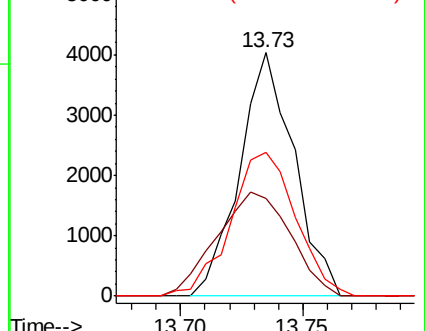
148 59.2 49.8 74.8

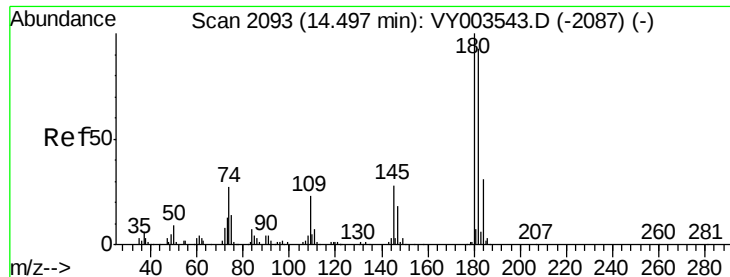


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

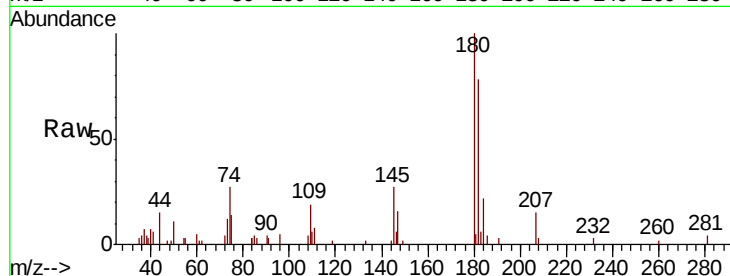




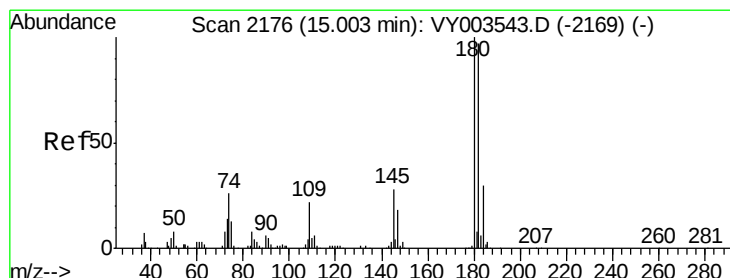
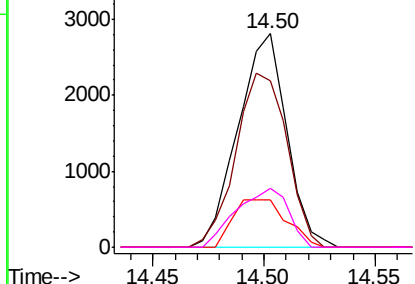
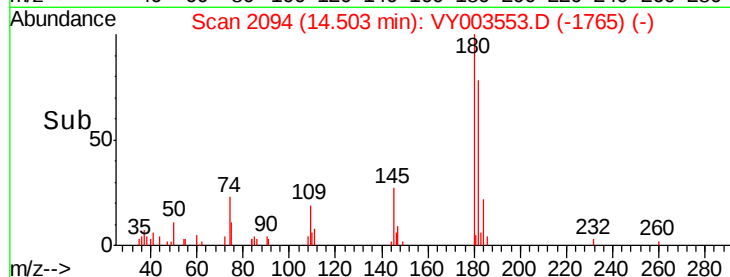
#67
 1,3,5-Trichlorobenzene
 Concen: 1.255 ug/L
 RT: 14.50 min Scan# 2094
 Delta R.T. 0.01 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL06

Tot Ion:180 Resp: 4298
 Ion Ratio Lower Upper
 180 100
 182 85.4 77.3 115.9
 184 24.7 24.4 36.6
 145 29.3 22.4 33.6

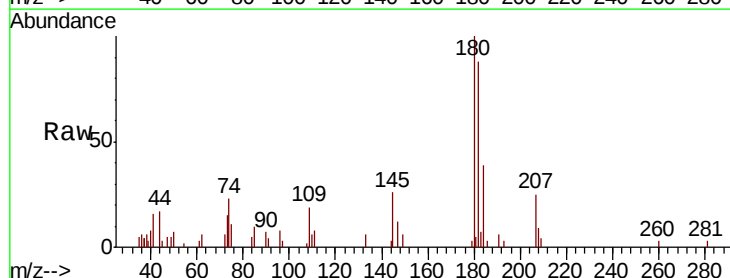


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

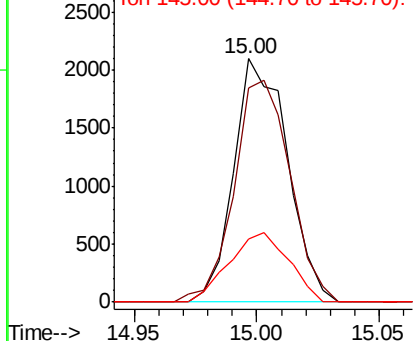
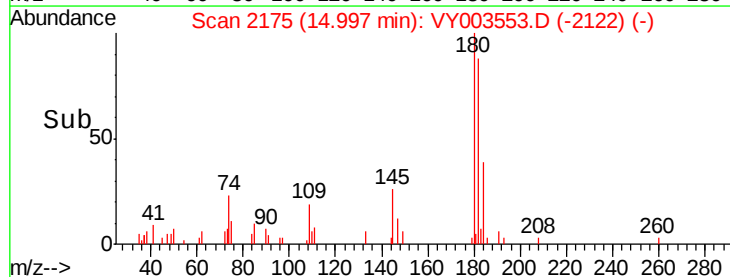


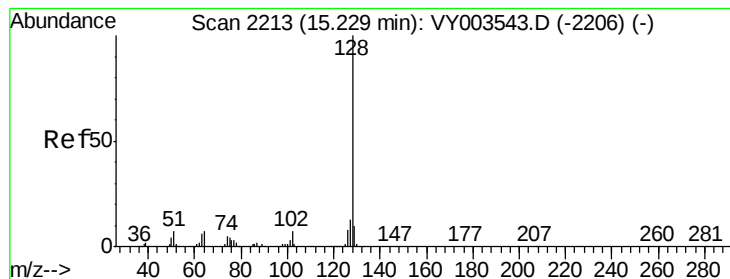
#68
 1,2,4-trichlorobenzene
 Concen: 1.085 ug/L
 RT: 15.00 min Scan# 2175
 Delta R.T. -0.01 min
 Lab File: VY003553.D
 Acq: 19 Nov 2020 17:16

Tgt Ion:180 Resp: 3202
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.5 114.7
 145 31.8 22.8 34.2



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: 1.054 ug/L

RT: 15.23 min Scan# 2214

Delta R.T. 0.01 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

Instrument :

MSVOA_Y

ClientSampleId :

MDL06

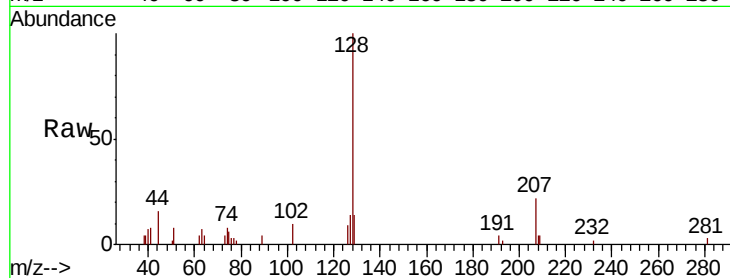
Tot Ion:128 Resp: 5487

Ion Ratio Lower Upper

128 100

129 12.6 8.5 12.7

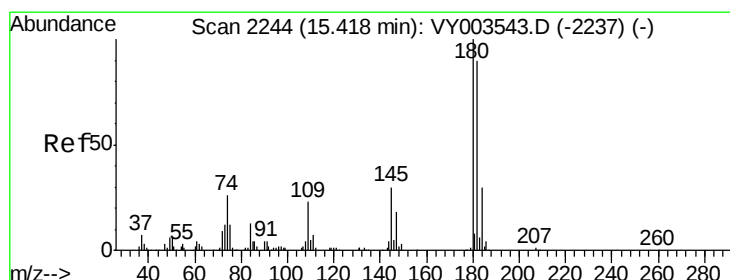
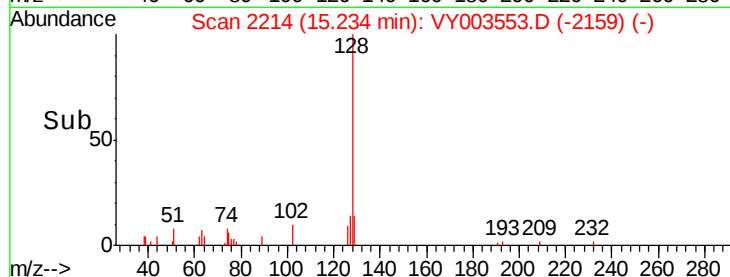
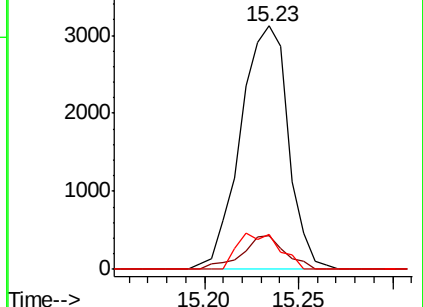
127 13.2 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.218 ug/L

RT: 15.42 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VY003553.D

Acq: 19 Nov 2020 17:16

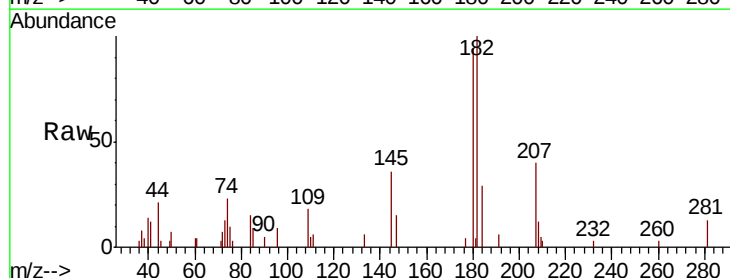
Tgt Ion:180 Resp: 2716

Ion Ratio Lower Upper

180 100

182 91.1 76.5 114.7

145 29.2 25.2 37.8



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

