

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120120\
 Data File : VY003637.D
 Acq On : 01 Dec 2020 16:43
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

Quant Time: Dec 02 01:28:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYLEM120120SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 01 12:34:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	233671	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	214785	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	106830	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	70485	23.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.36%
7) Chloroethane-d5	2.77	69	57007	24.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.28%
11) 1,1-Dichloroethene-d2	3.86	63	113505	18.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.72%
21) 2-Butanone-d5	6.89	46	70414	53.72	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.44%
24) Chloroform-d	7.48	84	142196	23.99	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.96%
26) 1,2-Dichloroethane-d4	8.15	65	80516	25.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.36%
32) Benzene-d6	8.12	84	306304	25.09	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.36%
36) 1,2-Dichloropropane-d6	9.12	67	92904	24.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.96%
41) Toluene-d8	10.18	98	272069	24.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	10.43	79	43092	24.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.04%
47) 2-Hexanone-d5	10.79	63	53521	53.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.76%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	93744	24.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.76%
66) 1,2-Dichlorobenzene-d4	13.72	152	97032	25.59	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.36%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.91	85	3651	1.346	ug/L	95
3) Chloromethane	2.12	50	3703	1.259	ug/L	99
5) Vinyl chloride	2.25	62	4348	1.378	ug/L #	66
6) Bromomethane	2.66	94	2549	1.290	ug/L	82
9) Trichlorofluoromethane	3.13	101	6387	1.334	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	3.90	101	3972	1.242	ug/L #	90
12) 1,1-Dichloroethene	3.88	96	4767	1.569	ug/L #	1
14) Carbon disulfide	4.20	76	11953	1.191	ug/L	96
15) Methyl Acetate	4.49	43	2550	1.127	ug/L #	79
16) Methylene chloride	4.72	84	15174	3.847	ug/L	95
17) trans-1,2-Dichloroethene	5.23	96	3988	1.195	ug/L	84
18) Methyl tert-butyl Ether	5.24	73	9306	1.141	ug/L #	65
19) 1,1-Dichloroethane	6.03	63	6816	1.214	ug/L	97
20) cis-1,2-Dichloroethene	6.99	96	4402	1.258	ug/L #	54
22) 2-Butanone	7.00	43	6497	4.114	ug/L #	68
23) Bromochloromethane	7.34	128	2137	1.253	ug/L	86
27) 1,2-Dichloroethane	8.25	62	4826	1.303	ug/L	97

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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

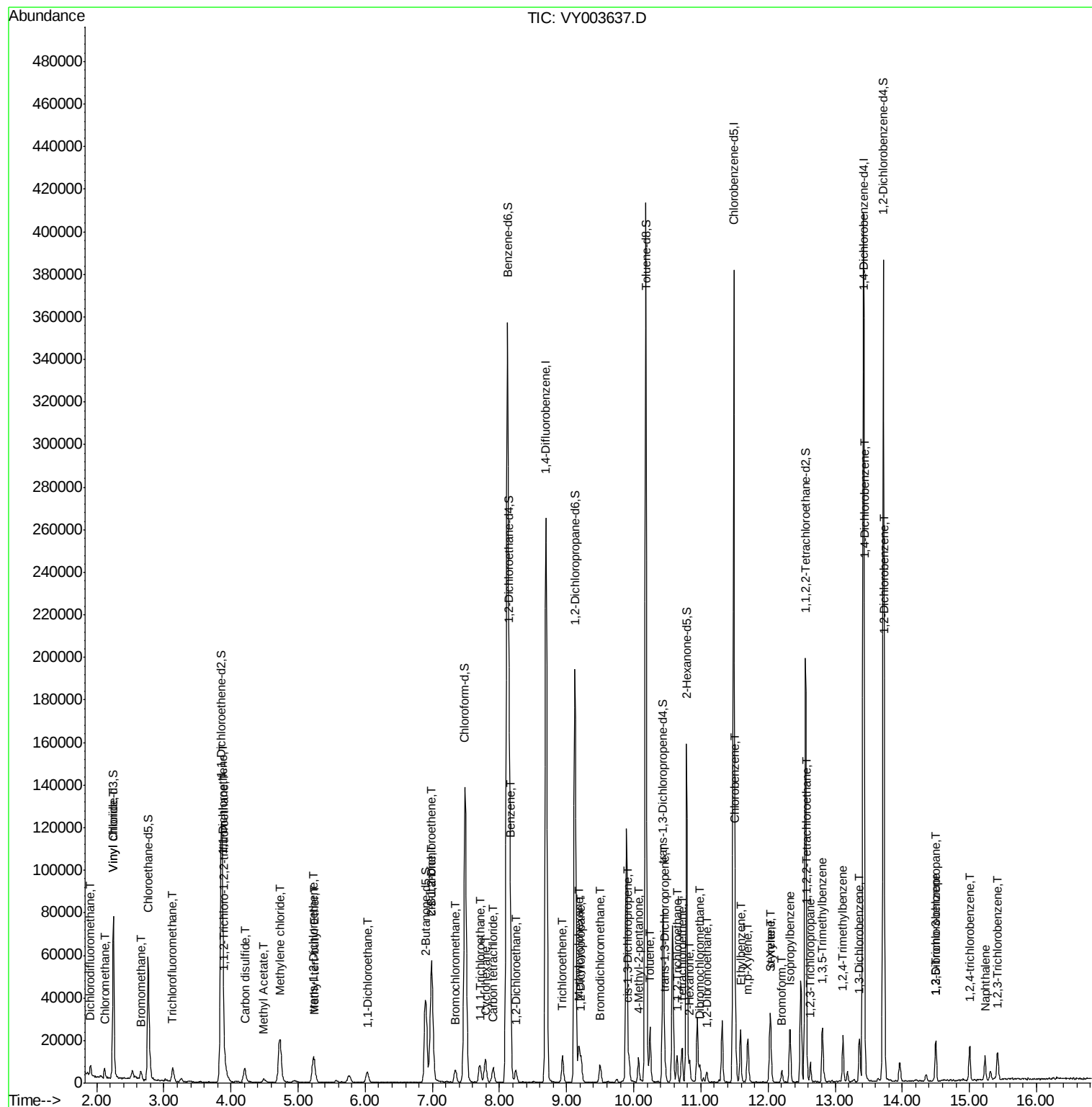
29) Cyclohexane	7.80	56	5955	1.168	ug/L #	21
30) 1,1,1-Trichloroethane	7.72	97	6529	1.333	ug/L	98
31) Carbon tetrachloride	7.90	117	5701	1.290	ug/L	98
33) Benzene	8.17	78	17000	1.295	ug/L	100
34) Trichloroethene	8.94	95	3944	1.204	ug/L	93
35) Methylcyclohexane	9.19	83	6484	1.157	ug/L	97
37) 1,2-Dichloropropane	9.22	63	4228	1.269	ug/L #	90
38) Bromodichloromethane	9.50	83	5057	1.206	ug/L #	97
39) cis-1,3-Dichloropropene	9.92	75	6075	1.180	ug/L	100
40) 4-Methyl-2-pentanone	10.07	43	8235	2.815	ug/L	98
42) Toluene	10.25	91	17564	1.274	ug/L	99
44) trans-1,3-Dichloropropene	10.47	75	7598	1.599	ug/L	95
45) 1,1,2-Trichloroethane	10.65	97	3419	1.222	ug/L	97
46) Tetrachloroethene	10.72	164	3693	1.317	ug/L	92
48) 2-Hexanone	10.83	43	5017	2.349	ug/L	99
49) Dibromochloromethane	10.98	129	3742	1.157	ug/L	95
50) 1,2-Dibromoethane	11.09	107	3283	1.213	ug/L #	99
51) Chlorobenzene	11.51	112	11379	1.281	ug/L	95
52) Ethylbenzene	11.59	91	17519	1.187	ug/L	99
53) m,p-Xylene	11.70	106	7201	1.248	ug/L	89
54) o-Xylene	12.03	106	6108	1.121	ug/L	94
55) Styrene	12.04	104	9960	1.068	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.58	83	4950	1.335	ug/L #	97
59) Bromoform	12.21	173	2517	1.200	ug/L	96
60) Isopropylbenzene	12.33	105	14875	1.089	ug/L	95
61) 1,2,3-Trichloropropane	12.63	75	3345	1.309	ug/L	93
62) 1,3,5-Trimethylbenzene	12.81	105	11896	1.098	ug/L	95
63) 1,2,4-Trimethylbenzene	13.12	105	11233	1.050	ug/L	100
64) 1,3-Dichlorobenzene	13.37	146	8102	1.226	ug/L	96
65) 1,4-Dichlorobenzene	13.44	146	9179	1.367	ug/L	93
67) 1,2-Dichlorobenzene	13.74	146	7987	1.287	ug/L #	92
68) 1,2-Dibromo-3-chloropropan	14.50	75	1097	1.850	ug/L #	1
69) 1,3,5-Trichlorobenzene	14.50	180	5503	1.185	ug/L	96
70) 1,2,4-trichlorobenzene	15.01	180	4894	1.238	ug/L	99
71) Naphthalene	15.23	128	9147	1.060	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	4293	1.182	ug/L	99

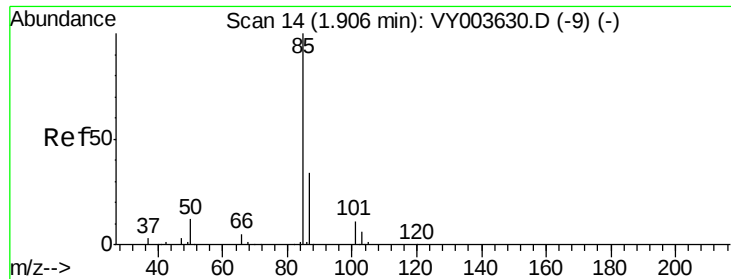
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.346 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

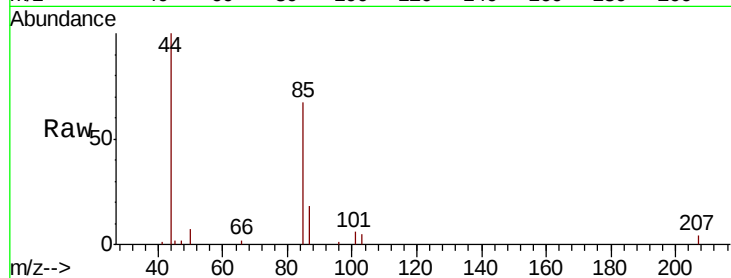
MDL02

Tot Ion: 85 Resp: 3651

Ion Ratio Lower Upper

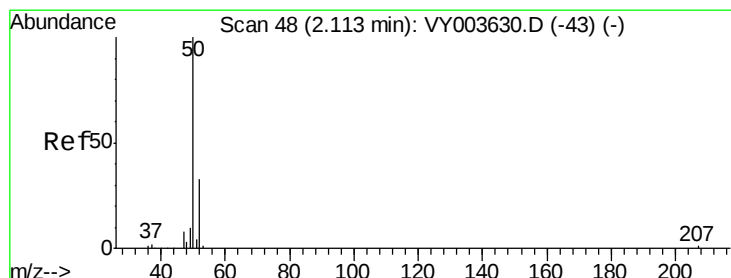
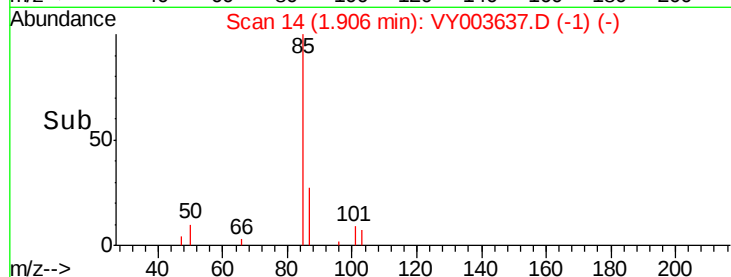
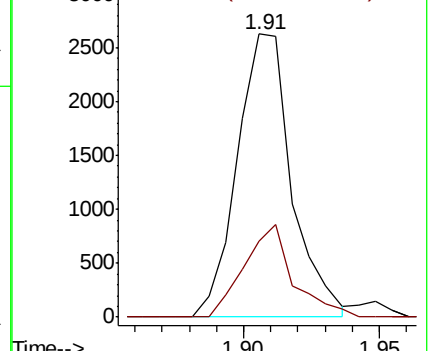
85 100

87 29.2 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 1.259 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.01 min

Lab File: VY003637.D

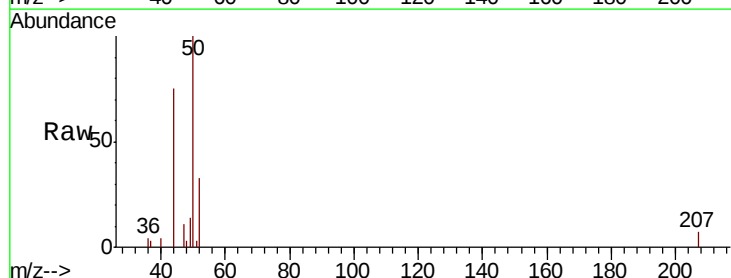
Acq: 01 Dec 2020 16:43

Tgt Ion: 50 Resp: 3703

Ion Ratio Lower Upper

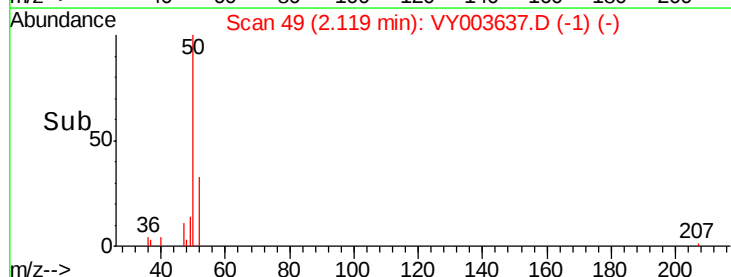
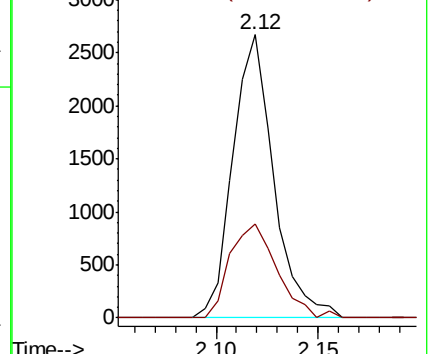
50 100

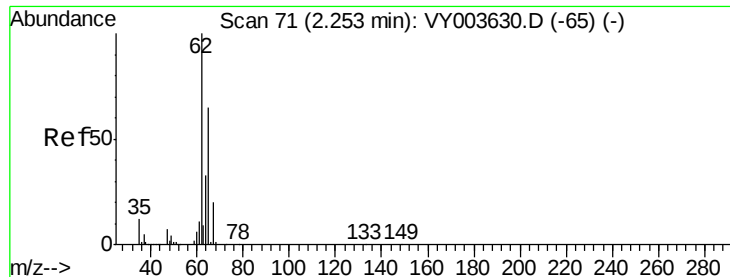
52 33.3 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 1.378 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

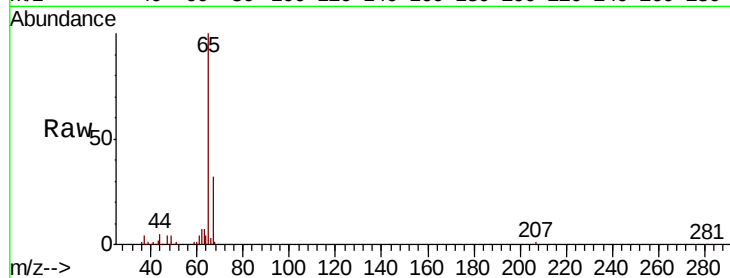
MDL02

Tot Ion: 62 Resp: 4348

Ion Ratio Lower Upper

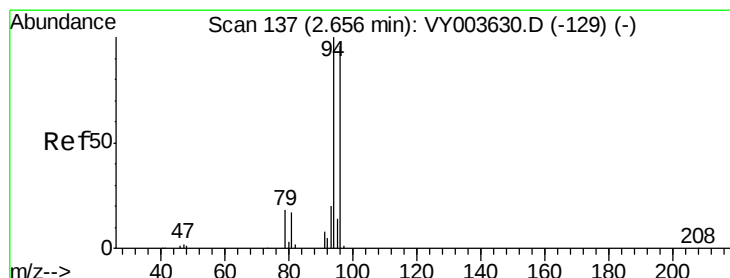
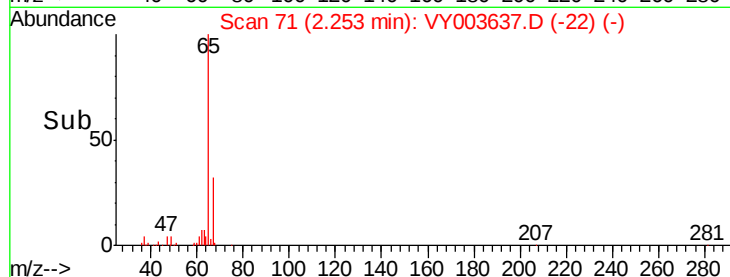
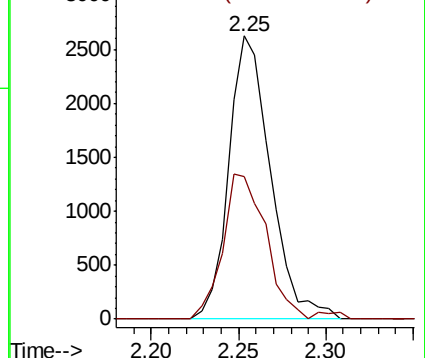
62 100

64 50.3 21.9 40.7#



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.290 ug/L

RT: 2.66 min Scan# 137

Delta R.T. -0.01 min

Lab File: VY003637.D

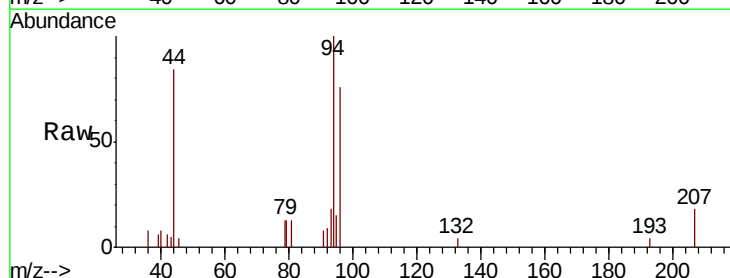
Acq: 01 Dec 2020 16:43

Tgt Ion: 94 Resp: 2549

Ion Ratio Lower Upper

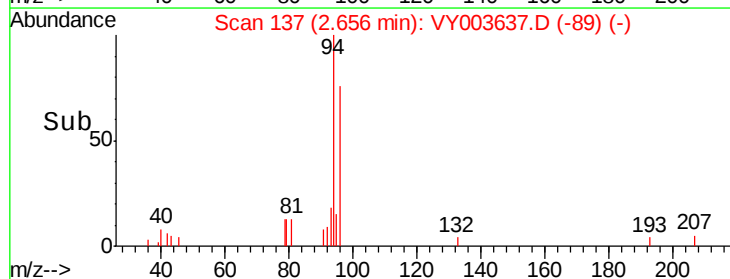
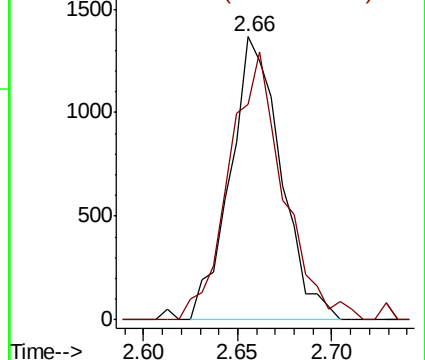
94 100

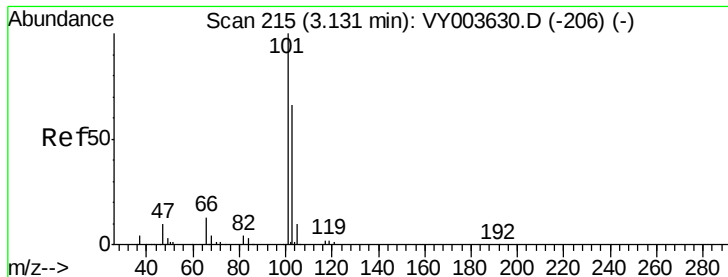
96 75.9 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0



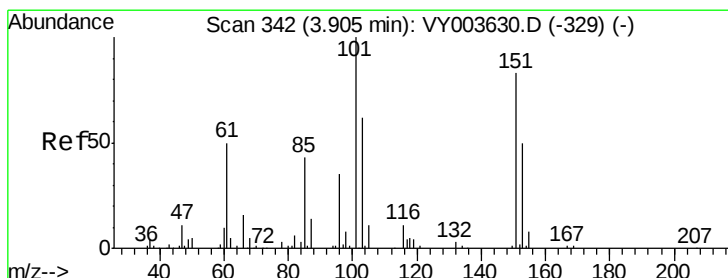
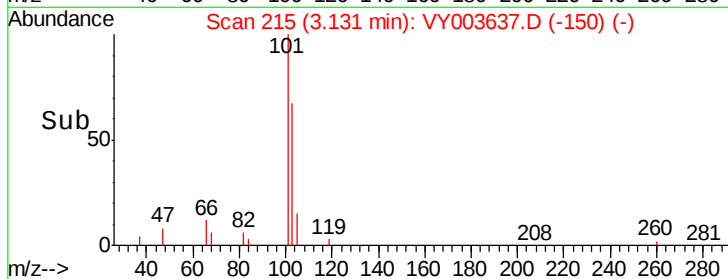
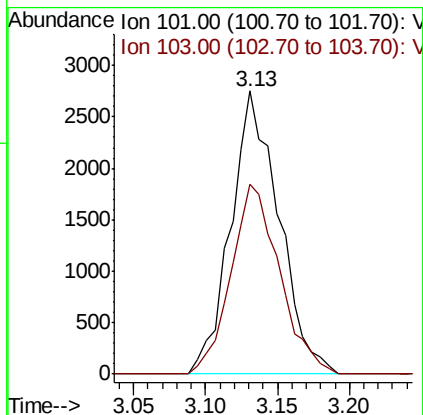
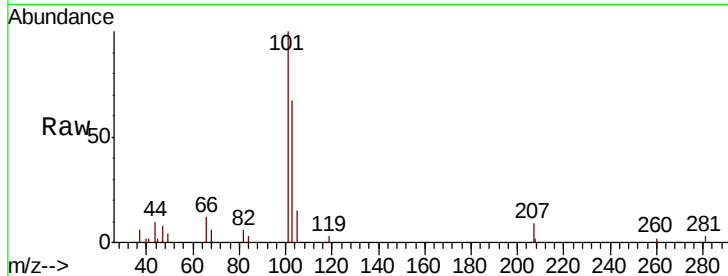


#9

Trichlorofluoromethane
Concen: 1.334 ug/L
RT: 3.13 min Scan# 215
Delta R.T. -0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL02

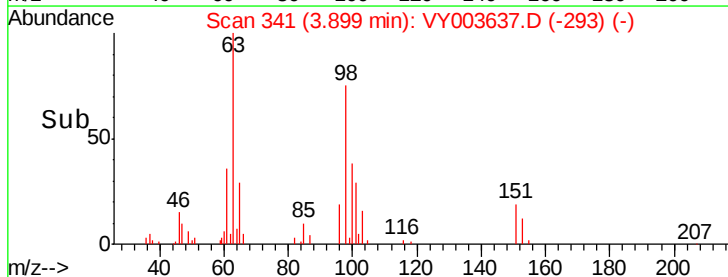
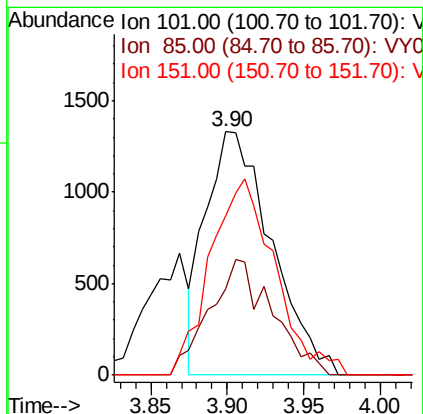
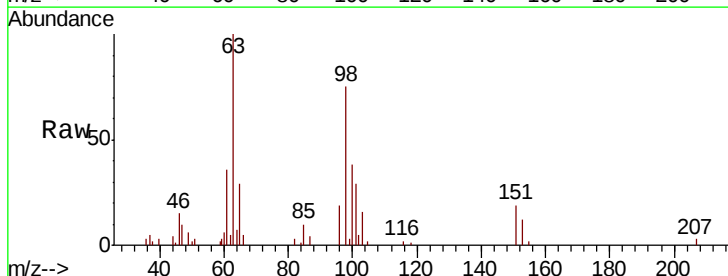
Tot Ion:101 Resp: 6387
Ion Ratio Lower Upper
101 100
103 67.5 51.9 77.9

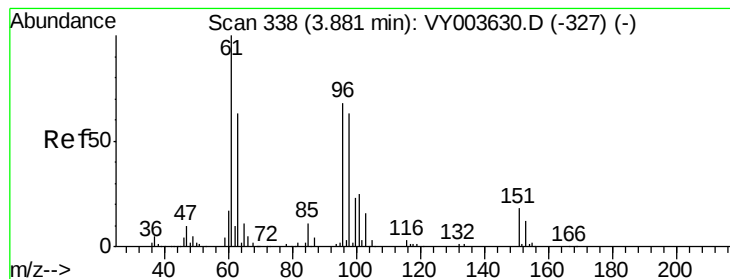


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.242 ug/L
RT: 3.90 min Scan# 341
Delta R.T. -0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Tgt Ion:101 Resp: 3972
Ion Ratio Lower Upper
101 100
85 30.6 35.6 53.4#
151 76.6 64.2 96.2





#12

1,1-Dichloroethene

Concen: 1.569 ug/L

RT: 3.88 min Scan# 338

Delta R.T. -0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

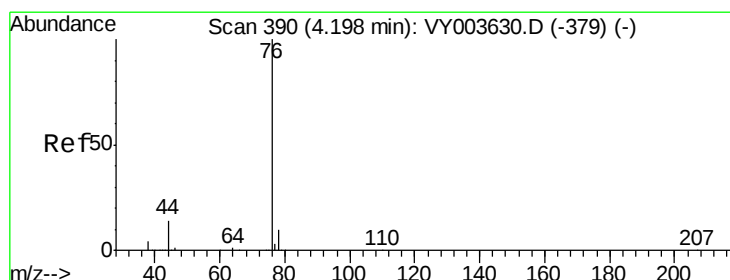
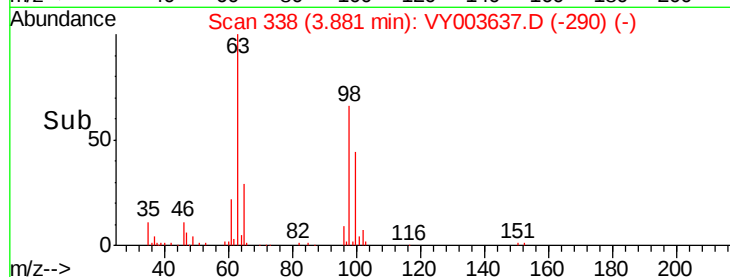
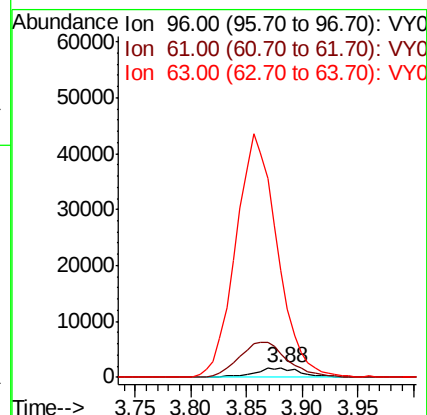
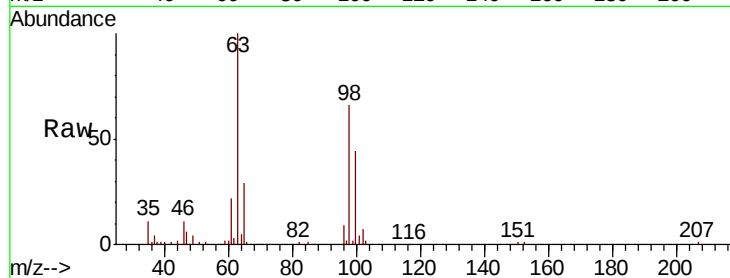
Tot Ion: 96 Resp: 4767

Ion Ratio Lower Upper

96 100

61 244.4 106.1 197.1#

63 1125.3 62.9 116.9#



#14

Carbon disulfide

Concen: 1.191 ug/L

RT: 4.20 min Scan# 390

Delta R.T. -0.01 min

Lab File: VY003637.D

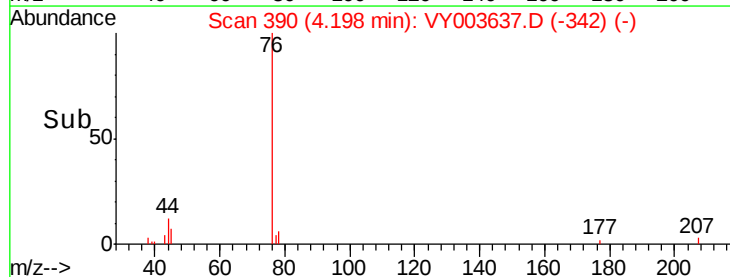
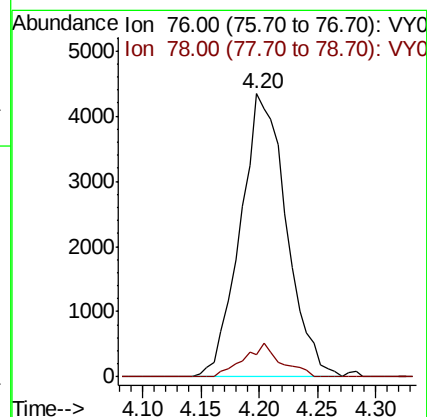
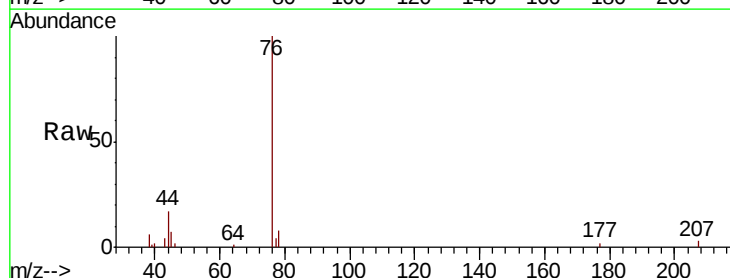
Acq: 01 Dec 2020 16:43

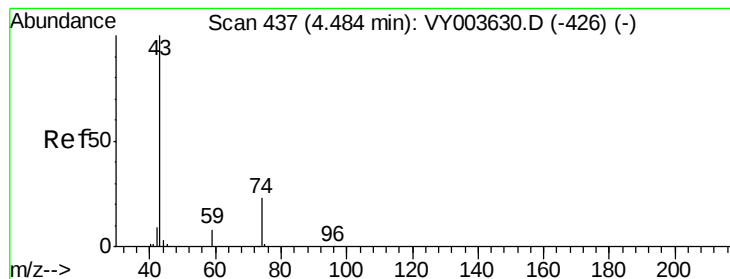
Tgt Ion: 76 Resp: 11953

Ion Ratio Lower Upper

76 100

78 7.7 7.3 10.9





#15

Methyl Acetate

Concen: 1.127 ug/L

RT: 4.49 min Scan# 438

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampled :

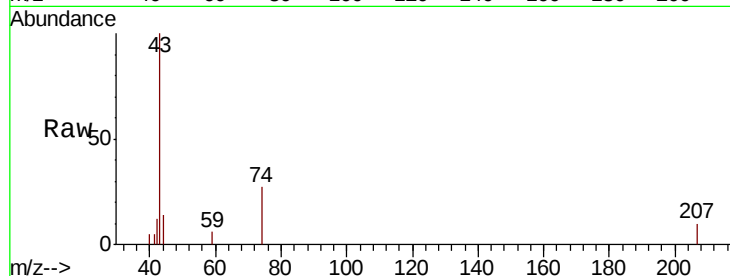
MDL02

Tot Ion: 43 Resp: 2550

Ion Ratio Lower Upper

43 100

74 33.1 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VY003637.D (-426) (-)

Ion 74.00 (73.70 to 74.70): VY003637.D (-426) (-)

4.49

1500

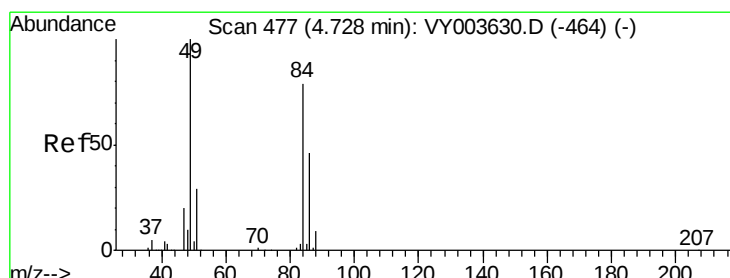
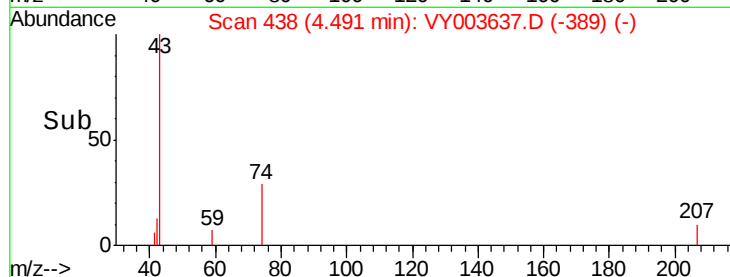
1000

500

0

4.45 4.50

Time-->



#16

Methylene chloride

Concen: 3.847 ug/L

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

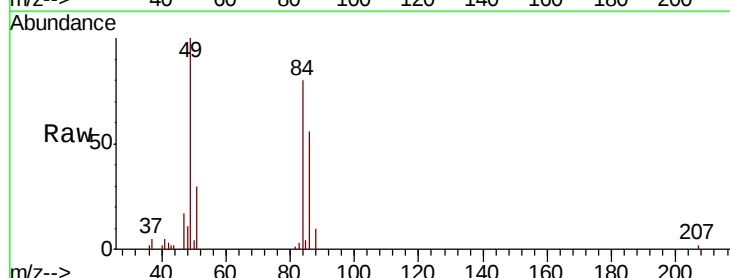
Tgt Ion: 84 Resp: 15174

Ion Ratio Lower Upper

84 100

86 69.8 43.3 80.3

49 125.0 85.3 158.5



Abundance Ion 84.00 (83.70 to 84.70): VY003637.D (-464) (-)

Ion 86.00 (85.70 to 86.70): VY003637.D (-464) (-)

Ion 49.00 (48.70 to 49.70): VY003637.D (-464) (-)

8000

6000

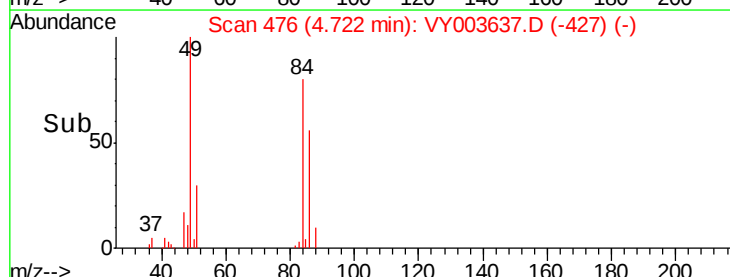
4000

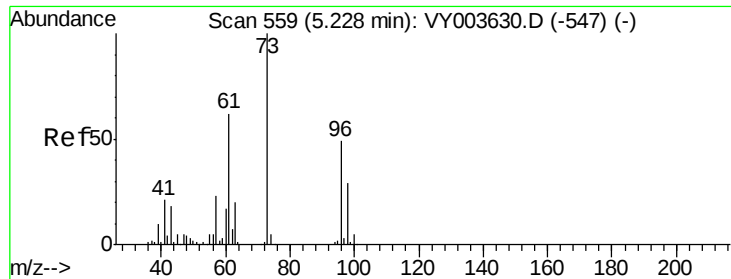
2000

0

4.65 4.70 4.75 4.80

Time-->

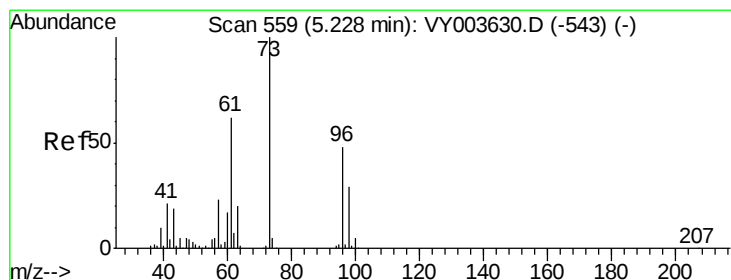
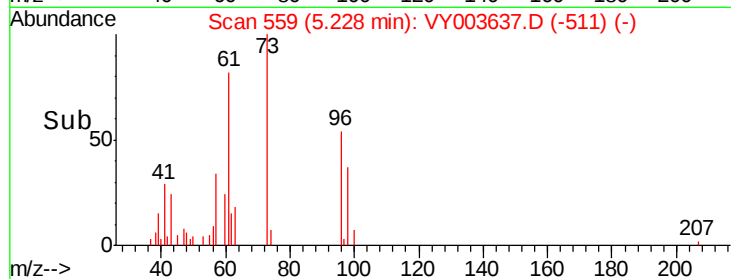
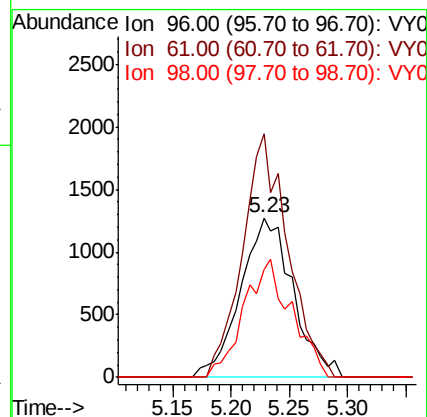
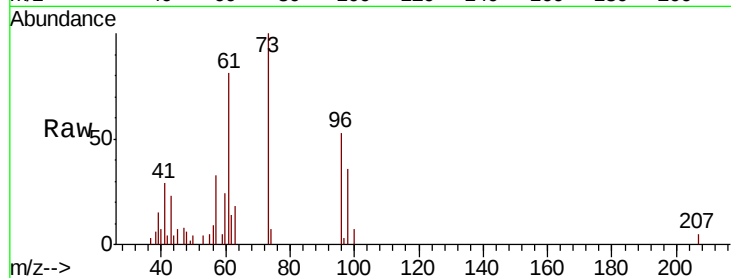




#17
trans-1,2-Dichloroethene
Concen: 1.195 ug/L
RT: 5.23 min Scan# 559
Delta R.T. -0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

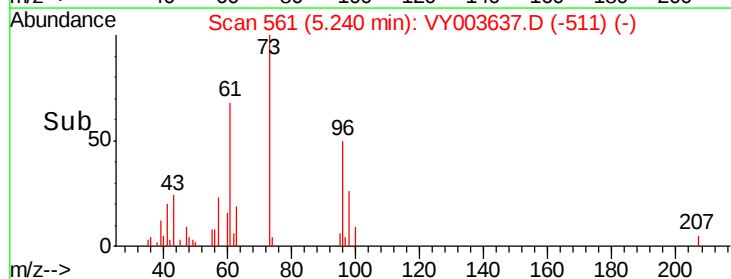
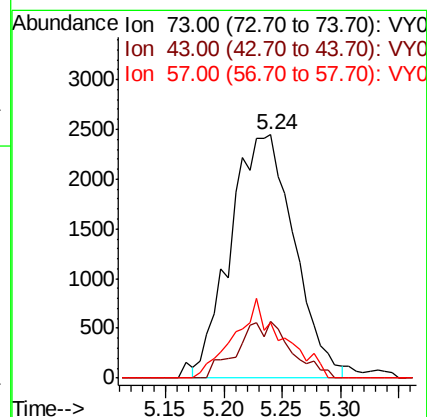
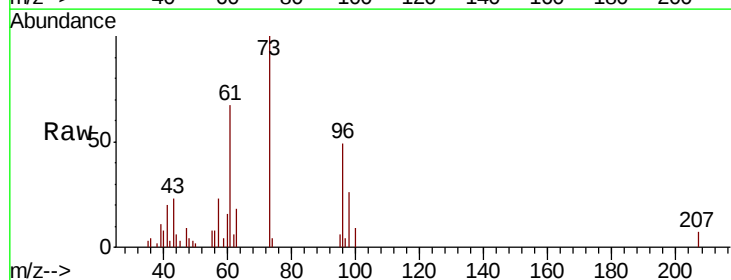
Instrument :
MSVOA_Y
ClientSampled :
MDL02

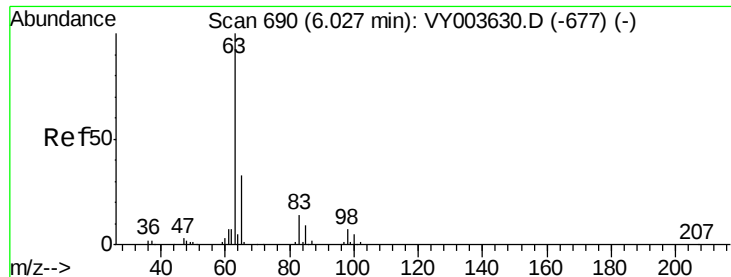
Tot Ion: 96 Resp: 3988
Ion Ratio Lower Upper
96 100
61 152.8 89.5 166.1
98 68.0 45.5 84.5



#18
Methyl tert-butyl Ether
Concen: 1.141 ug/L
RT: 5.24 min Scan# 561
Delta R.T. 0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Tgt Ion: 73 Resp: 9306
Ion Ratio Lower Upper
73 100
43 9.3 15.2 22.8#
57 0.0 18.1 27.1#





#19

1,1-Dichloroethane

Concen: 1.214 ug/L

RT: 6.03 min Scan# 690

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

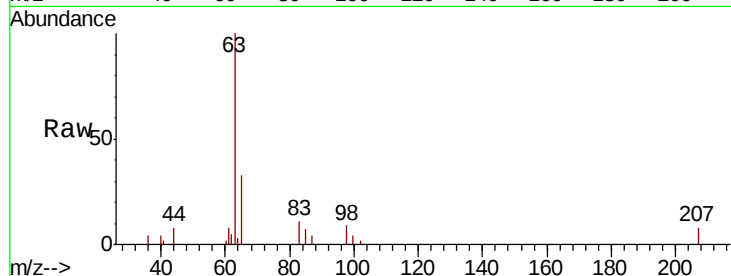
Tot Ion: 63 Resp: 6816

Ion Ratio Lower Upper

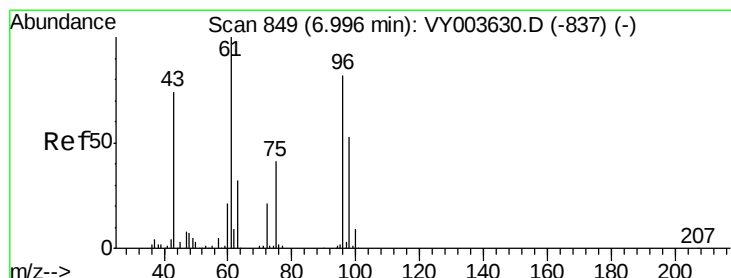
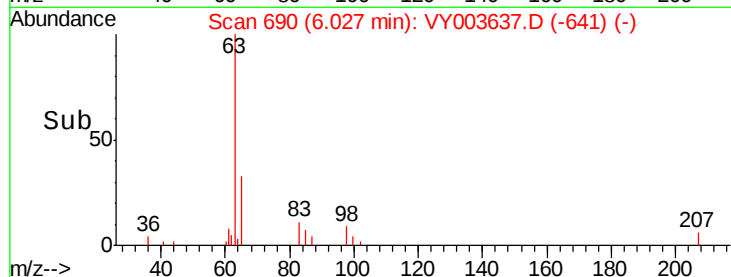
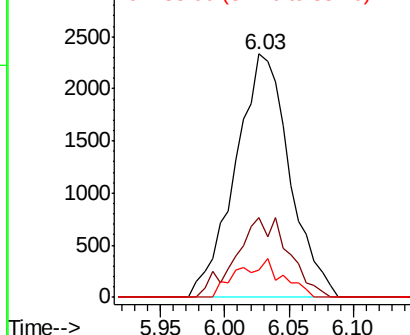
63 100

65 32.7 21.9 40.7

83 11.4 9.5 17.7



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



#20

cis-1,2-Dichloroethene

Concen: 1.258 ug/L

RT: 6.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

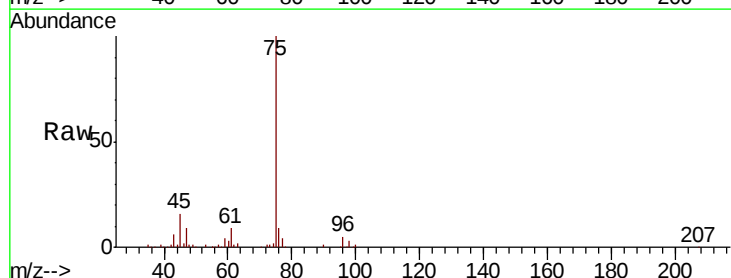
Tgt Ion: 96 Resp: 4402

Ion Ratio Lower Upper

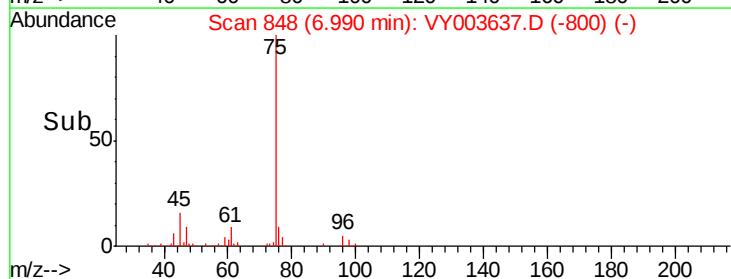
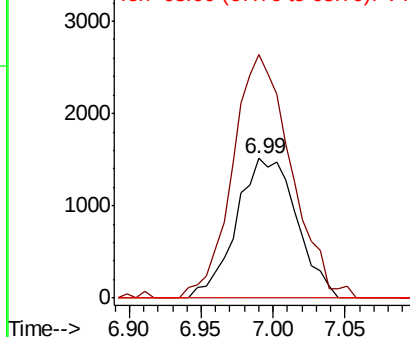
96 100

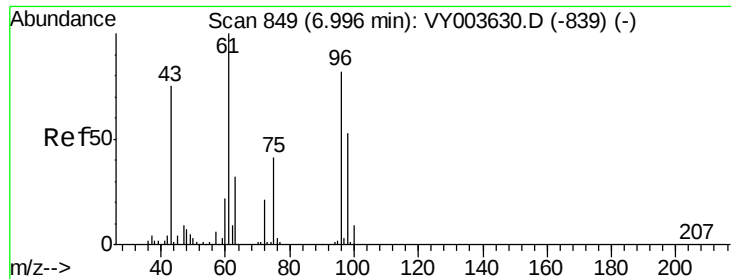
61 174.5 85.8 159.4#

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 68.00 (67.70 to 68.70): VY0





#22

2-Butanone

Concen: 4.114 ug/L

RT: 7.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

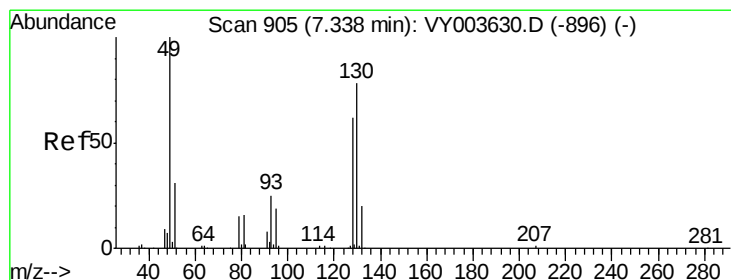
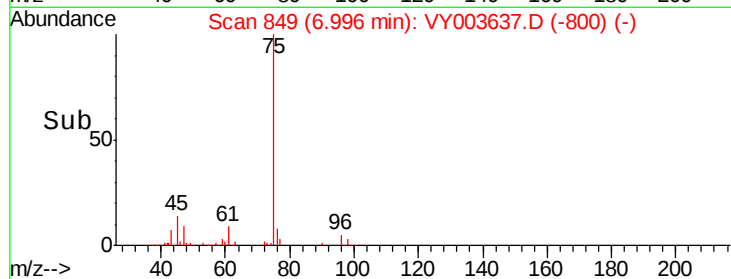
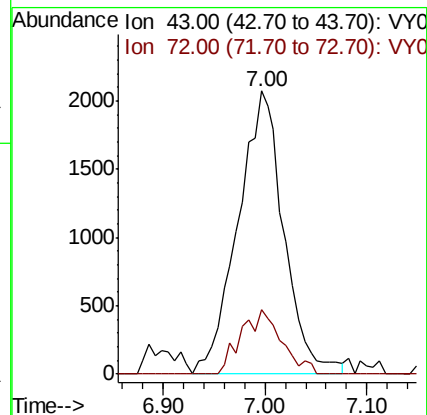
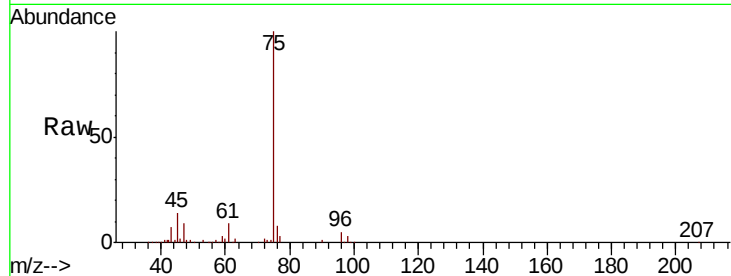
MDL02

Tot Ion: 43 Resp: 6497

Ion Ratio Lower Upper

43 100

72 10.6 13.5 40.5#



#23

Bromochloromethane

Concen: 1.253 ug/L

RT: 7.34 min Scan# 905

Delta R.T. -0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Tgt Ion:128 Resp: 2137

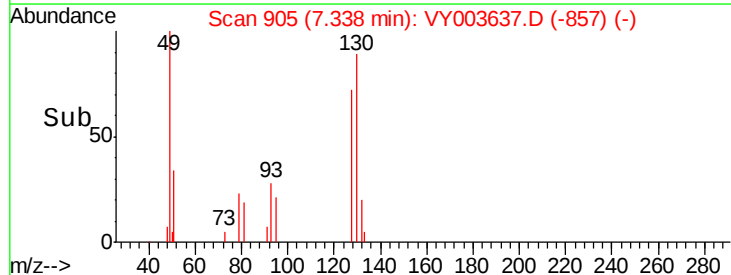
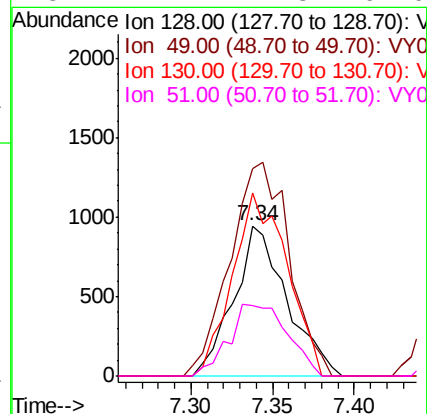
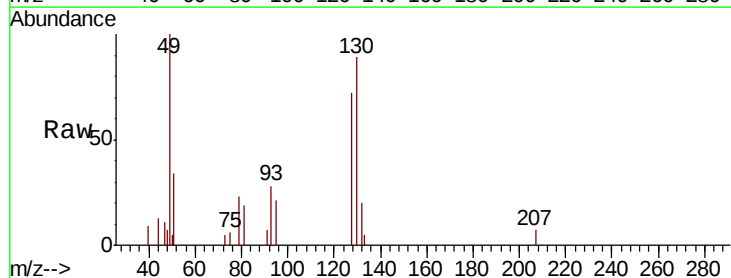
Ion Ratio Lower Upper

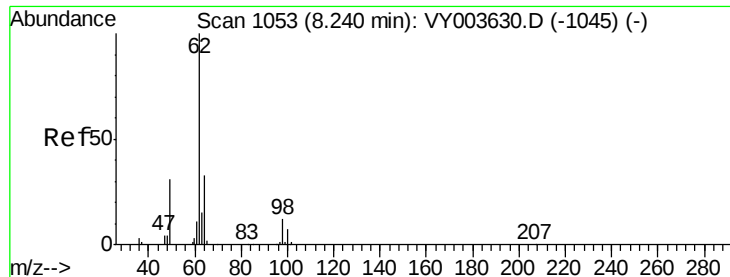
128 100

49 138.1 118.1 219.3

130 122.5 90.5 168.1

51 47.4 41.3 61.9





#27

1,2-Dichloroethane

Concen: 1.303 ug/L

RT: 8.25 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

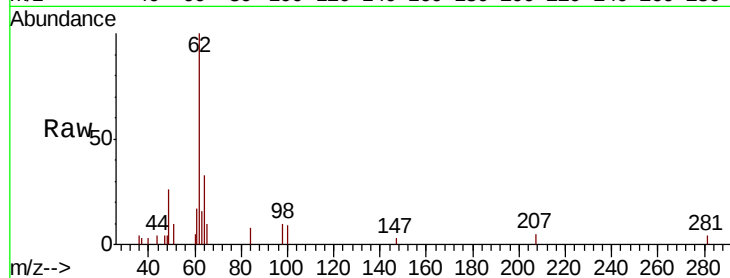
MDL02

Tot Ion: 62 Resp: 4826

Ion Ratio Lower Upper

62 100

98 10.3 7.5 11.3



Abundance Ion 62.00 (61.70 to 62.70): VY003637.D (-1045) (-)

Ion 98.00 (97.70 to 98.70): VY003637.D (-1045) (-)

8.25

2500

2000

1500

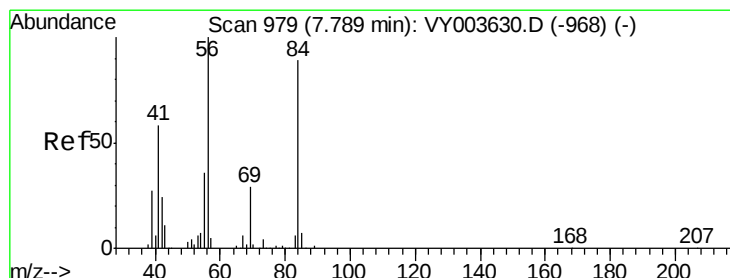
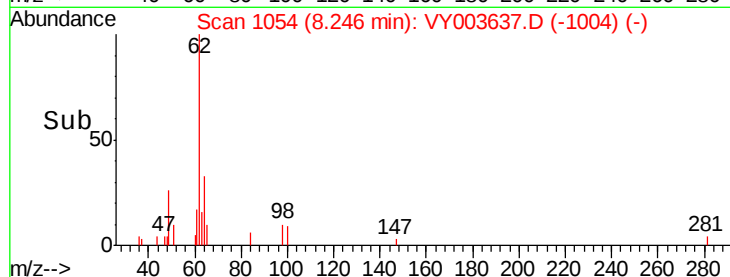
1000

500

0

Time-->

8.20 8.25 8.30



#29

Cyclohexane

Concen: 1.168 ug/L

RT: 7.80 min Scan# 981

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

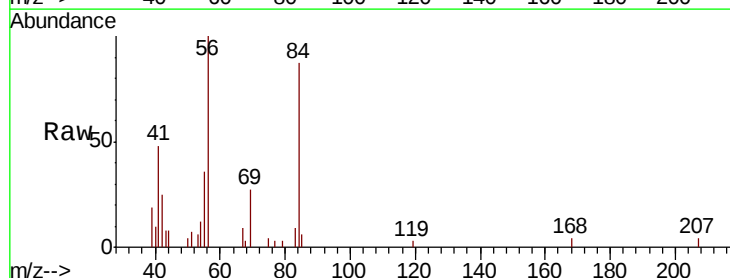
Tgt Ion: 56 Resp: 5955

Ion Ratio Lower Upper

56 100

69 10.5 23.9 35.9#

84 1.4 71.9 107.9#



Abundance Ion 56.00 (55.70 to 56.70): VY003637.D (-930) (-)

Ion 69.00 (68.70 to 69.70): VY003637.D (-930) (-)

Ion 84.00 (83.70 to 84.70): VY003637.D (-930) (-)

7.80

3000

2500

2000

1500

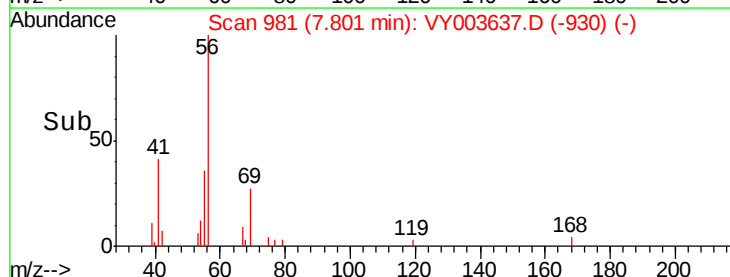
1000

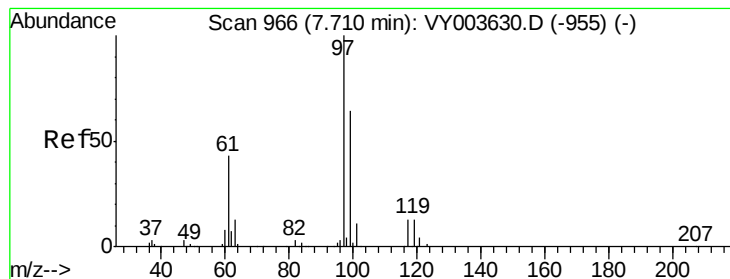
500

0

Time-->

7.70 7.75 7.80 7.85





#30

1,1,1-Trichloroethane

Concen: 1.333 ug/L

RT: 7.72 min Scan# 967

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

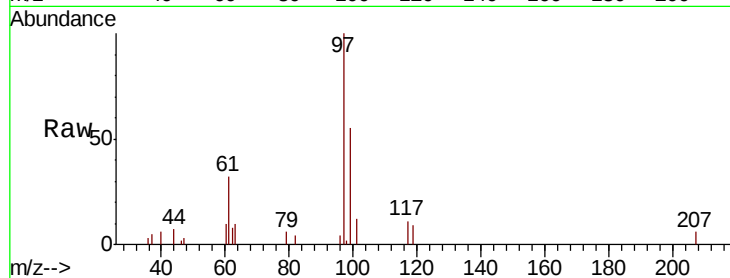
Tot Ion: 97 Resp: 6529

Ion Ratio Lower Upper

97 100

99 61.2 50.6 76.0

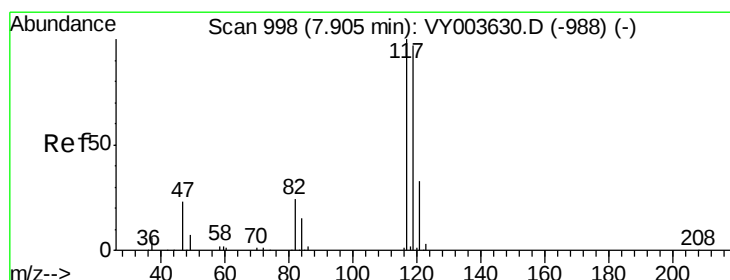
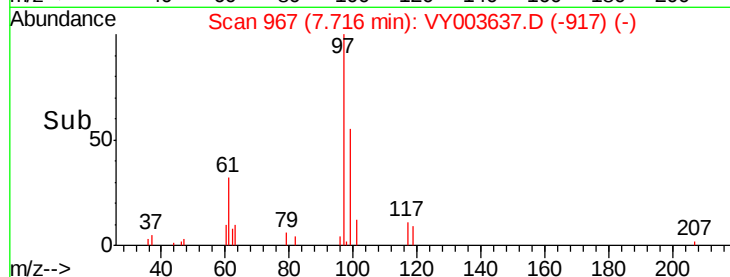
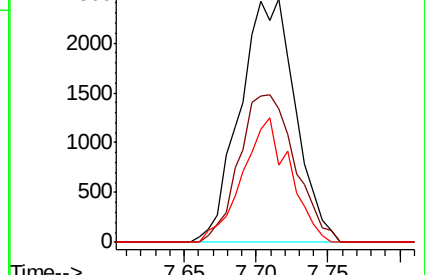
61 43.8 34.3 51.5



Abundance Ion 97.00 (96.70 to 97.70): VY003637.D (-967) (-)

Ion 99.00 (98.70 to 99.70): VY003637.D (-967) (-)

Ion 61.05 (60.75 to 61.75): VY003637.D (-967) (-)



#31

Carbon tetrachloride

Concen: 1.290 ug/L

RT: 7.90 min Scan# 998

Delta R.T. -0.00 min

Lab File: VY003637.D

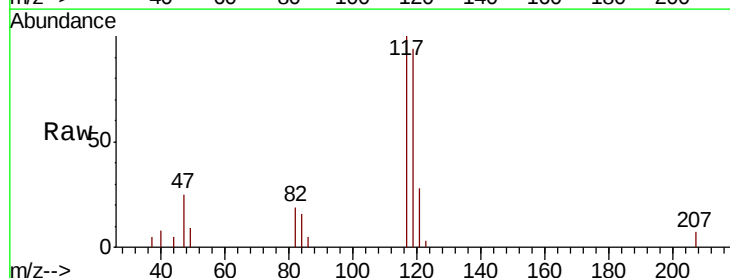
Acq: 01 Dec 2020 16:43

Tgt Ion: 117 Resp: 5701

Ion Ratio Lower Upper

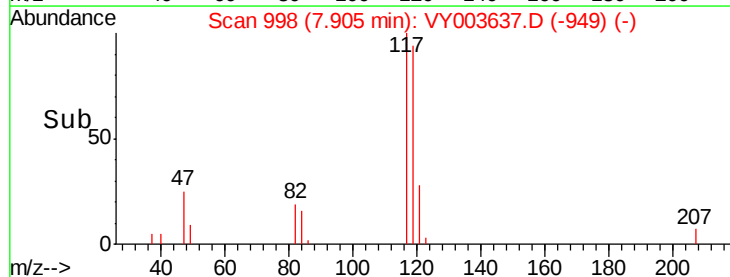
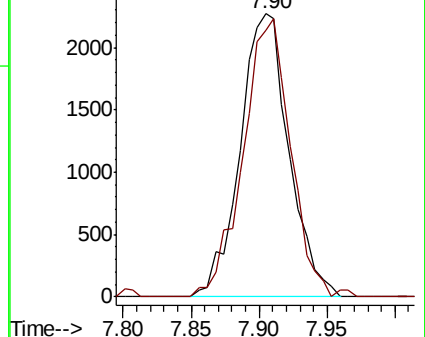
117 100

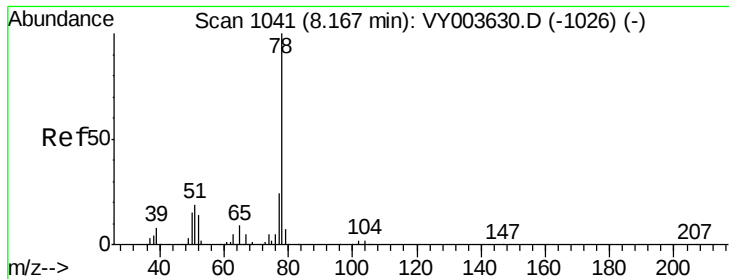
119 95.1 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): VY003637.D (-998) (-)

Ion 119.00 (118.70 to 119.70): VY003637.D (-998) (-)





#33

Benzene

Concen: 1.295 ug/L

RT: 8.17 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

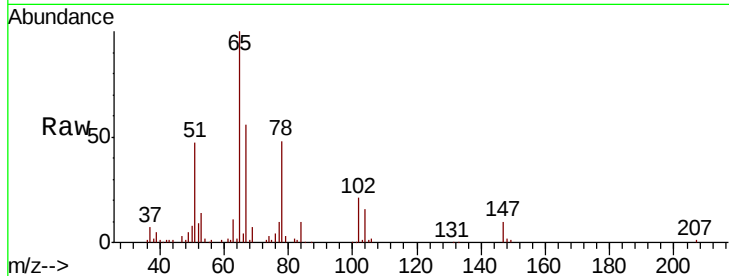
Instrument :

MSVOA_Y

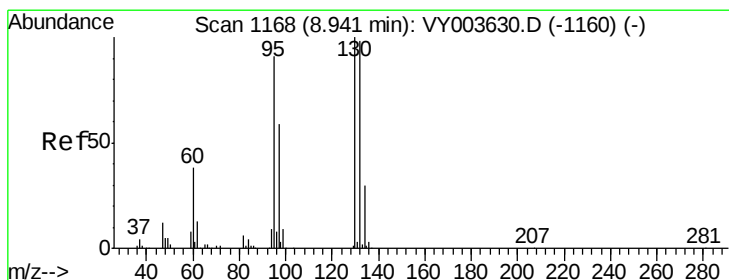
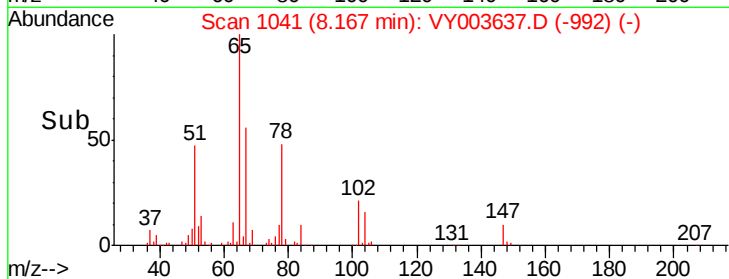
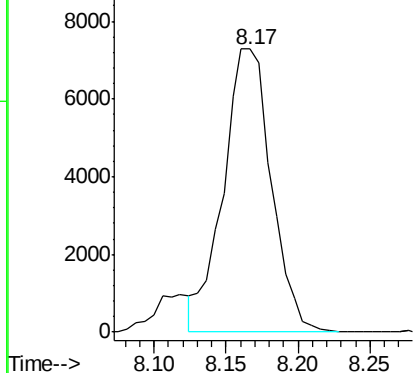
ClientSampleId :

MDL02

Tgt Ion: 78 Resp: 17000



Abundance Ion 78.00 (77.70 to 78.70): VY0



#34

Trichloroethene

Concen: 1.204 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Tgt Ion: 95 Resp: 3944

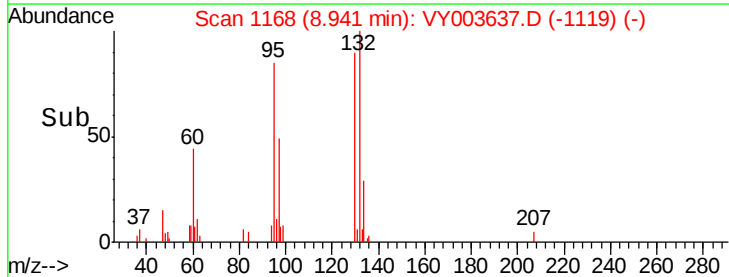
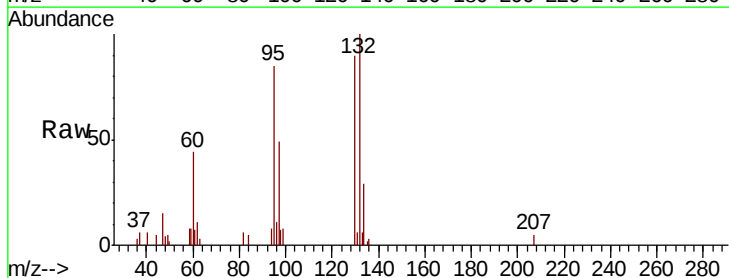
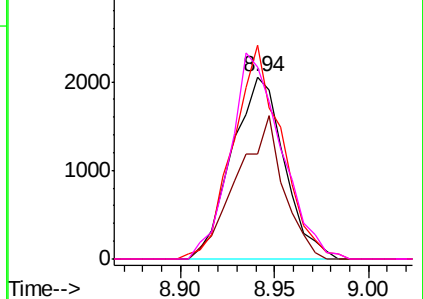
Ion	Ratio	Lower	Upper
95	100		
97	57.9	44.7	83.1
132	117.3	74.7	138.7
130	105.5	76.8	142.6

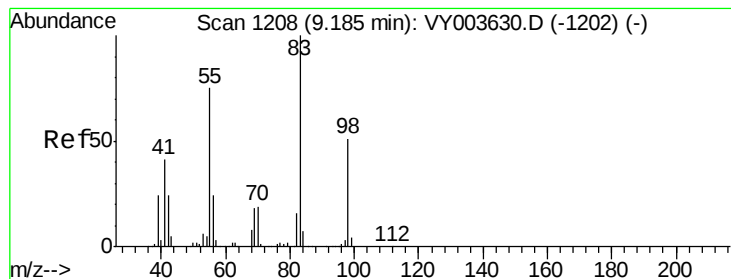
Abundance Ion 95.00 (94.70 to 95.70): VY0

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

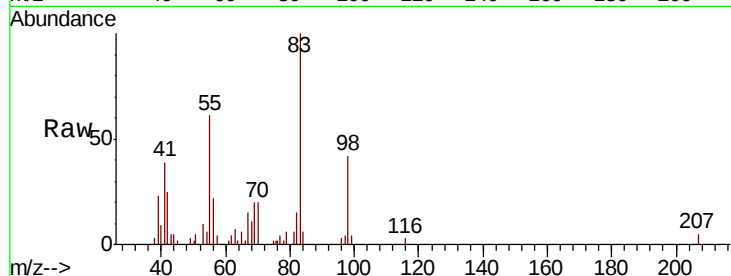




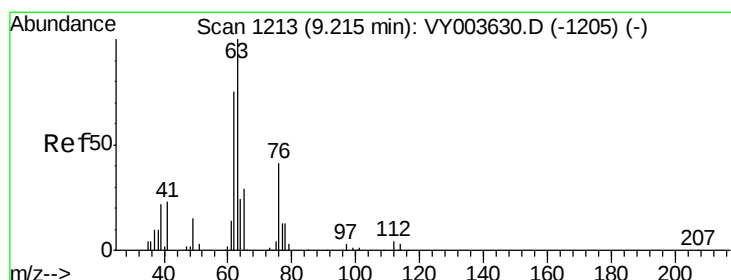
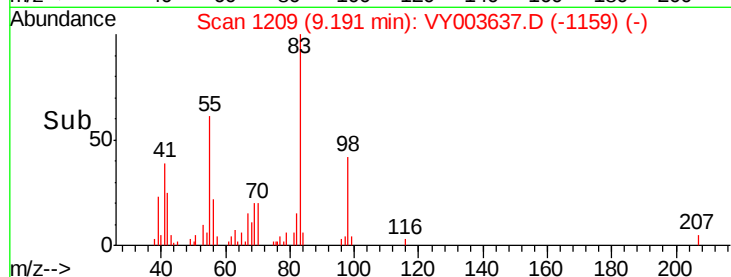
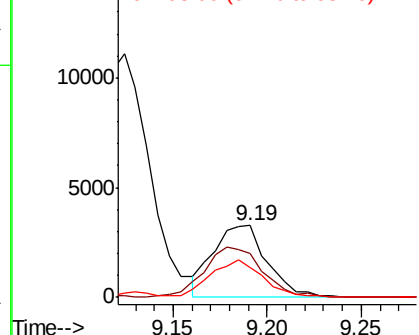
#35
Methylcyclohexane
Concen: 1.157 ug/L
RT: 9.19 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 6484
Ion Ratio Lower Upper
83 100
55 75.4 58.3 87.5
98 50.3 39.0 58.6

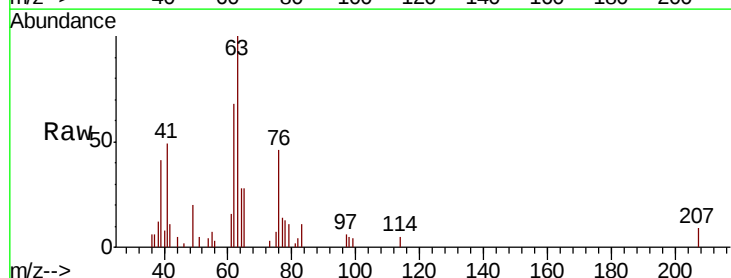


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

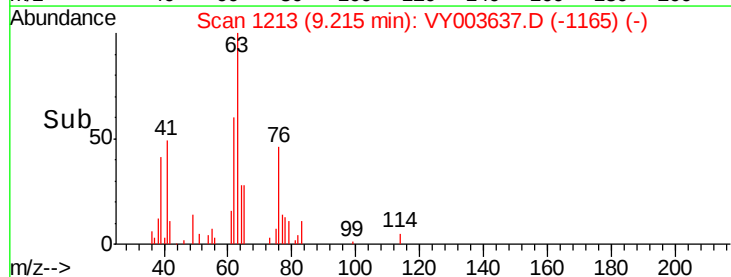
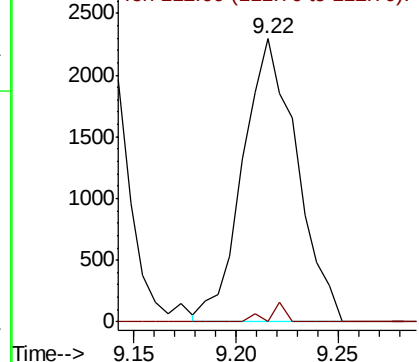


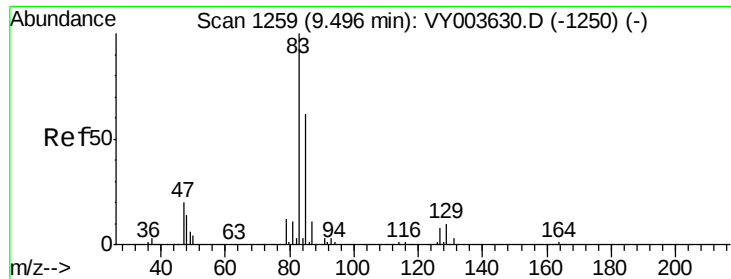
#37
1,2-Dichloropropane
Concen: 1.269 ug/L
RT: 9.22 min Scan# 1213
Delta R.T. -0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Tgt Ion: 63 Resp: 4228
Ion Ratio Lower Upper
63 100
112 1.3 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VY0
Ion 112.00 (111.70 to 112.70): V

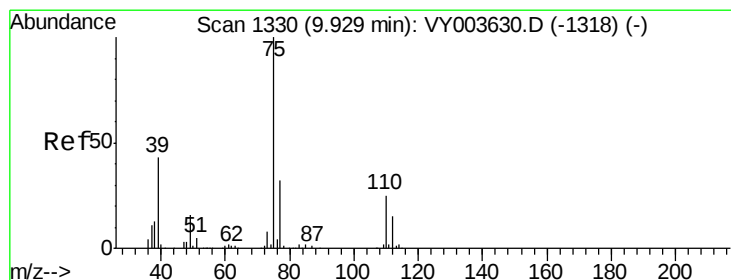
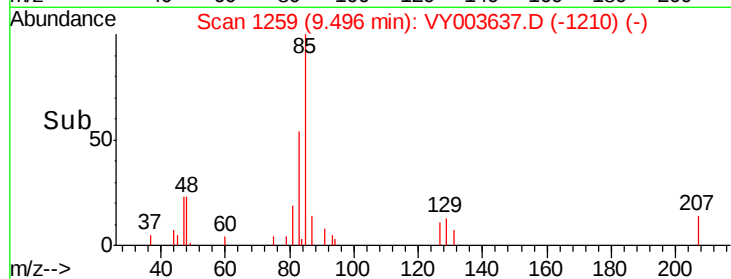
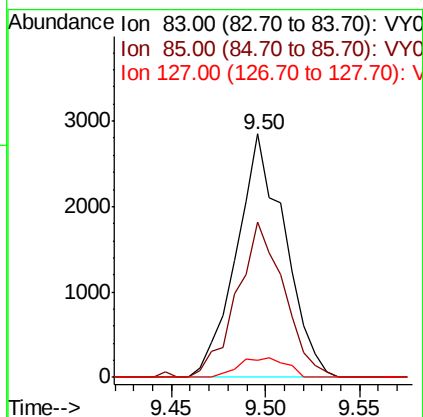
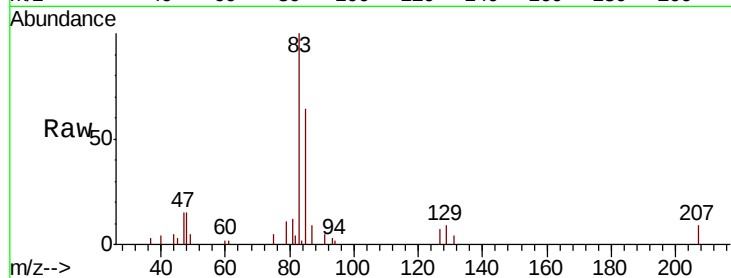




#38
 Bromodichloromethane
 Concen: 1.206 ug/L
 RT: 9.50 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

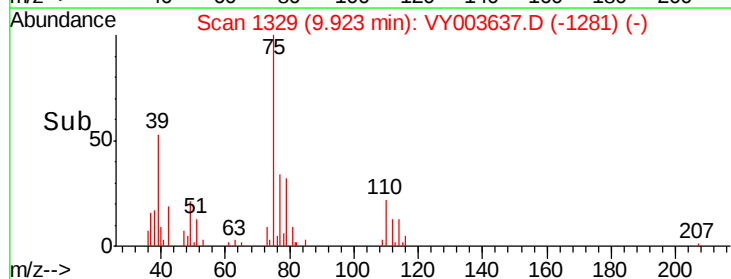
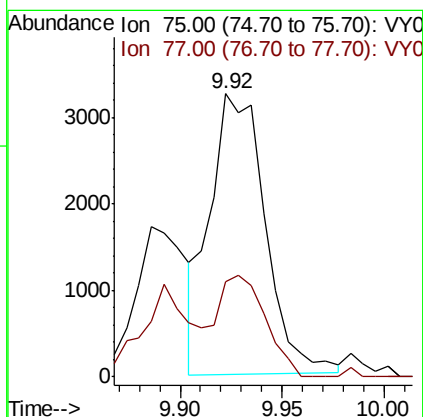
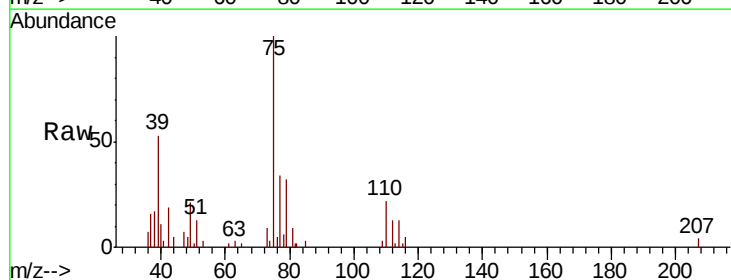
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

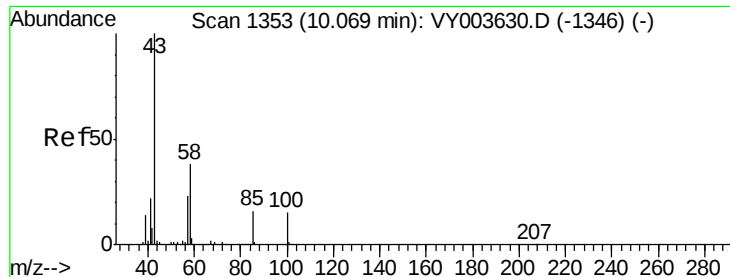
Tot Ion: 83 Resp: 5057
 Ion Ratio Lower Upper
 83 100
 85 63.9 43.1 80.1
 127 6.8 7.1 10.7#



#39
 cis-1,3-Dichloropropene
 Concen: 1.180 ug/L
 RT: 9.92 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Tgt Ion: 75 Resp: 6075
 Ion Ratio Lower Upper
 75 100
 77 33.6 23.5 43.7





#40

4-Methyl-2-pentanone

Concen: 2.815 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

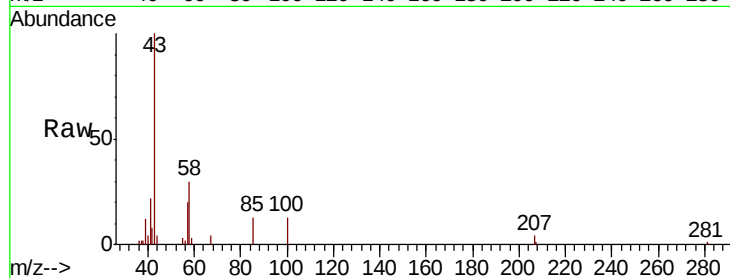
Tot Ion: 43 Resp: 8235

Ion Ratio Lower Upper

43 100

58 36.5 30.7 46.1

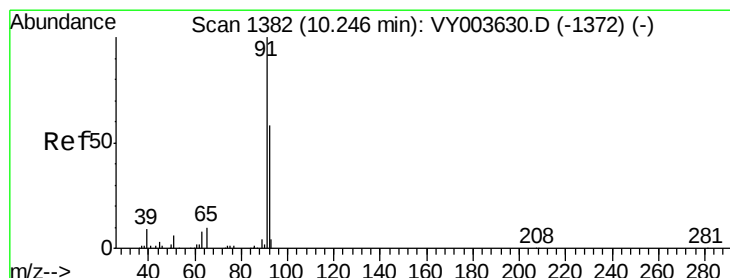
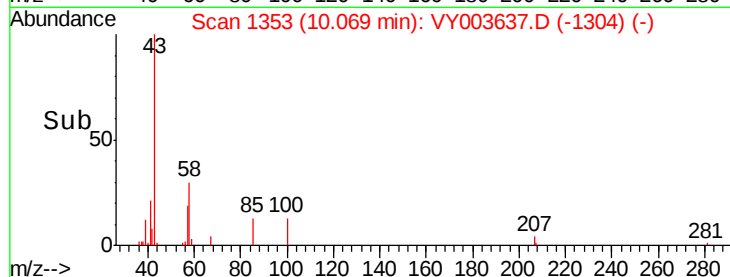
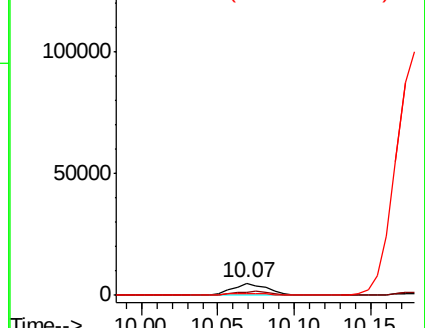
100 15.2 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VY003637.D (-1346) (-)

Ion 58.00 (57.70 to 58.70): VY003637.D (-1346) (-)

Ion 100.00 (99.70 to 100.70): VY003637.D (-1346) (-)



#42

Toluene

Concen: 1.274 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VY003637.D

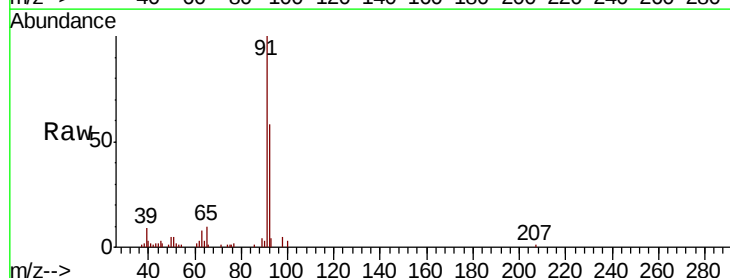
Acq: 01 Dec 2020 16:43

Tgt Ion: 91 Resp: 17564

Ion Ratio Lower Upper

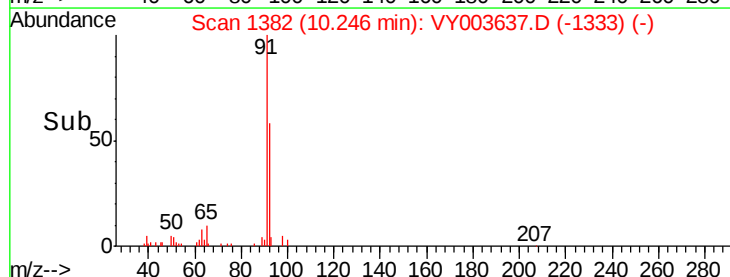
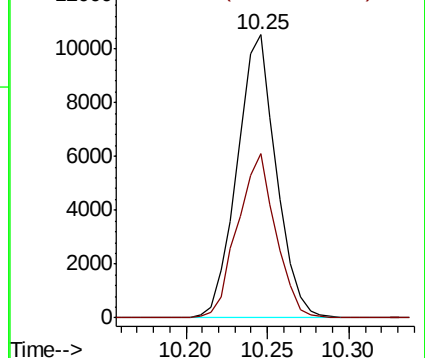
91 100

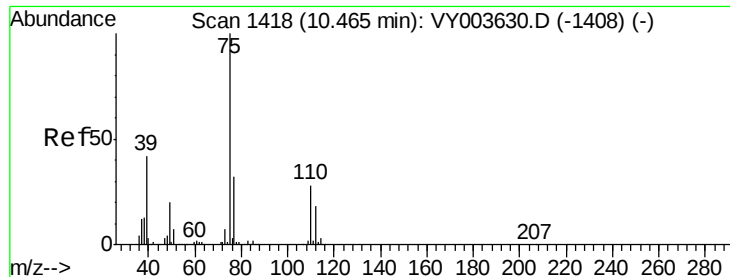
92 58.0 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VY003637.D (-1372) (-)

Ion 92.00 (91.70 to 92.70): VY003637.D (-1372) (-)





#44

trans-1,3-Dichloropropene

Concen: 1.599 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

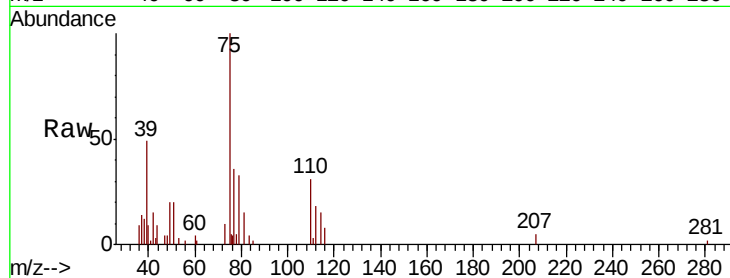
MDL02

Tot Ion: 75 Resp: 7598

Ion Ratio Lower Upper

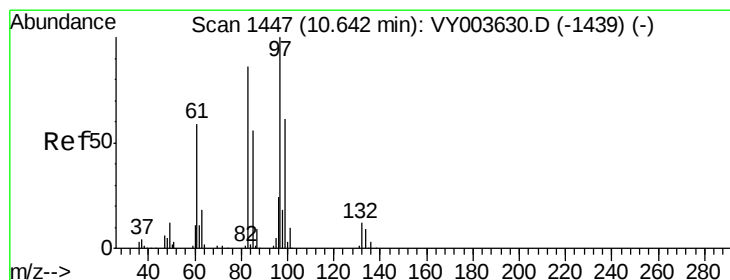
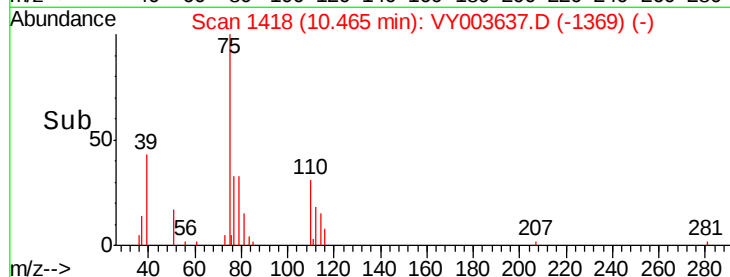
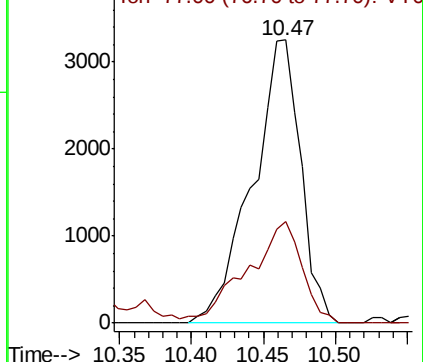
75 100

77 35.8 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#45

1,1,2-Trichloroethane

Concen: 1.222 ug/L

RT: 10.65 min Scan# 1448

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Tgt Ion: 97 Resp: 3419

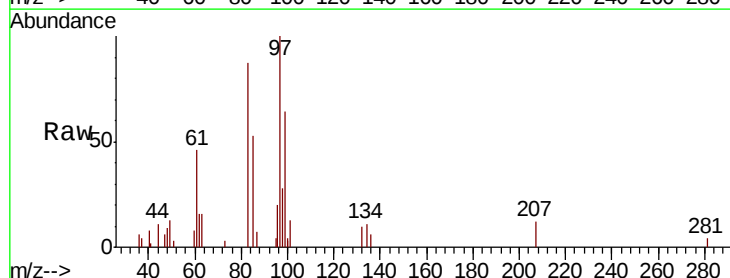
Ion Ratio Lower Upper

97 100

99 66.8 45.1 83.9

83 86.6 59.7 110.9

85 52.9 39.0 72.4

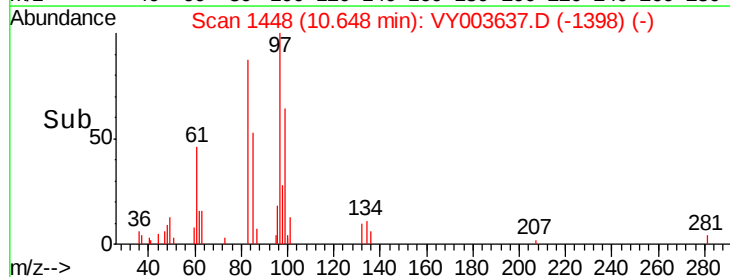
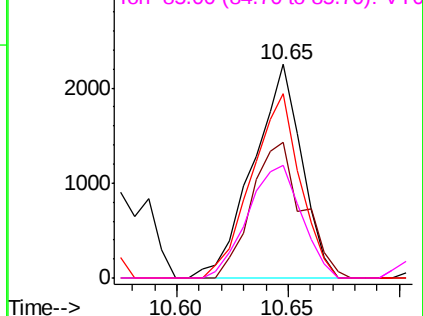


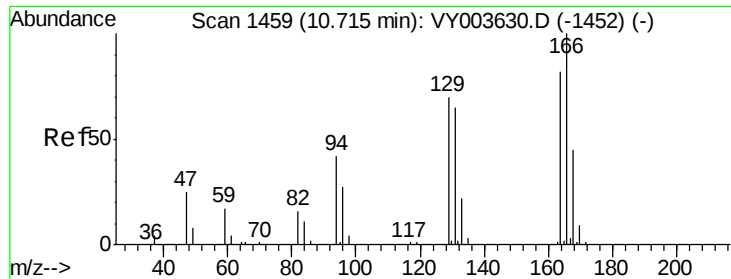
Abundance Ion 97.00 (96.70 to 97.70): VY0

Ion 99.00 (98.70 to 99.70): VY0

Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0





#46

Tetrachloroethene

Concen: 1.317 ug/L

RT: 10.72 min Scan# 1460

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

Tot Ion:164 Resp: 3693

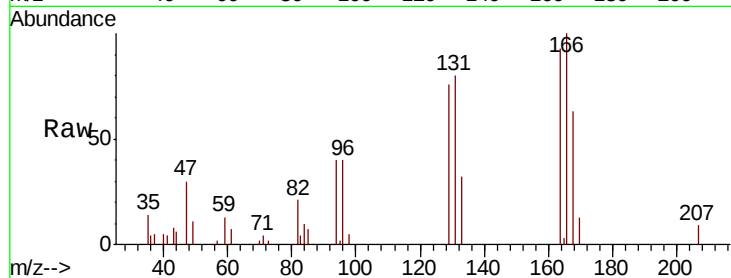
Ion Ratio Lower Upper

164 100

129 81.9 58.9 109.5

131 85.7 59.0 109.6

166 107.3 87.8 163.0

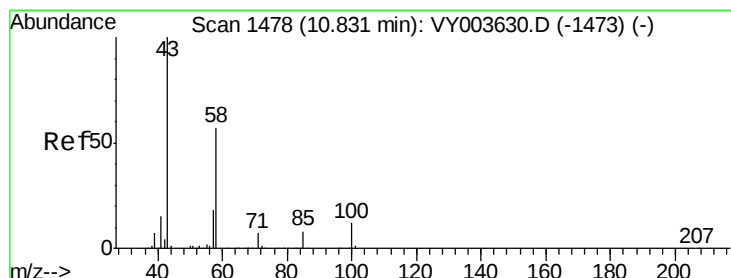
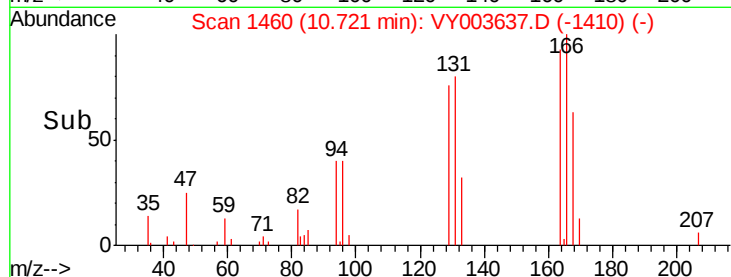
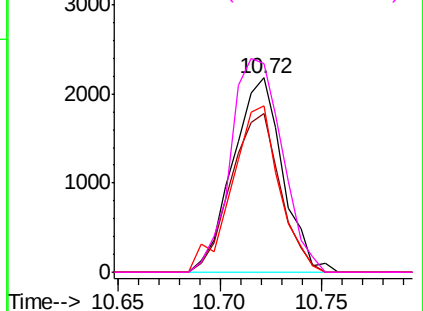


Abundance Ion 164.00 (163.70 to 164.70): V

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: 2.349 ug/L

RT: 10.83 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Tgt Ion: 43 Resp: 5017

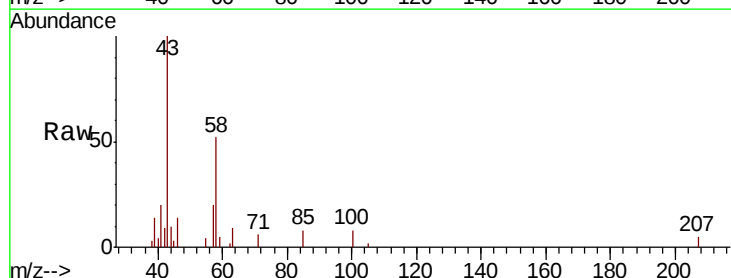
Ion Ratio Lower Upper

43 100

58 53.8 43.0 64.6

57 19.0 14.6 21.8

100 13.3 9.7 14.5

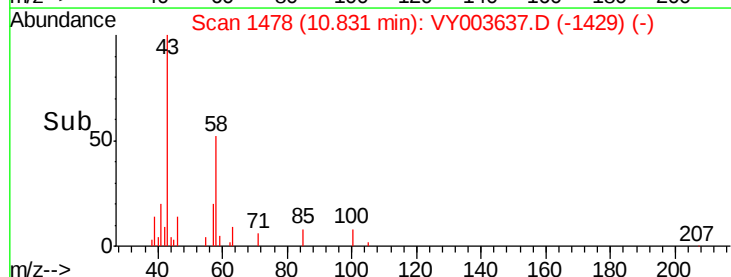
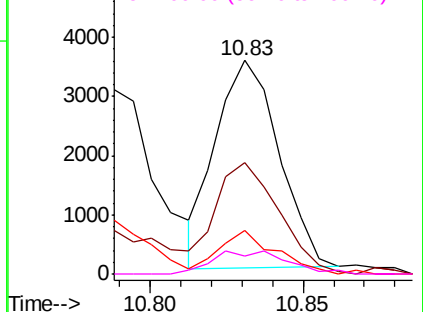


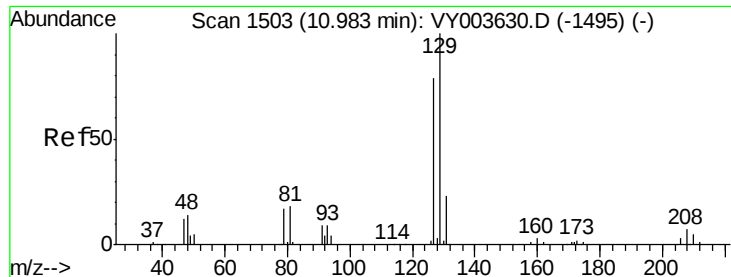
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#49

Dibromochloromethane

Concen: 1.157 ug/L

RT: 10.98 min Scan# 1503

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

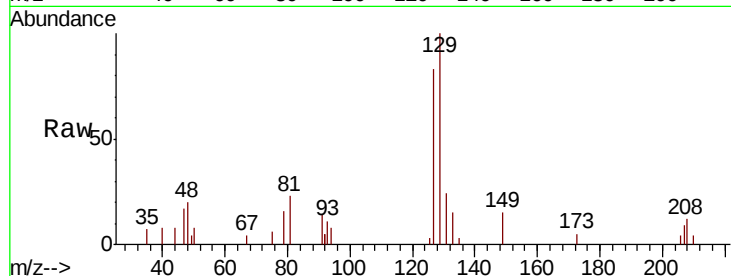
MDL02

Tot Ion:129 Resp: 3742

Ion Ratio Lower Upper

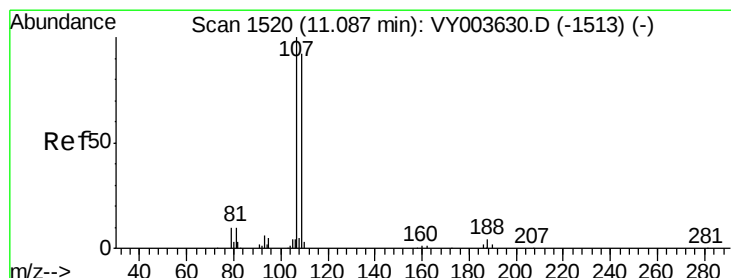
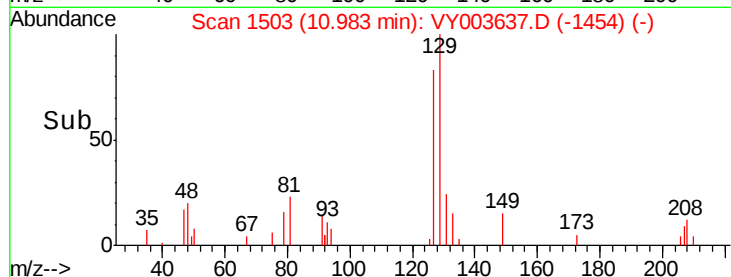
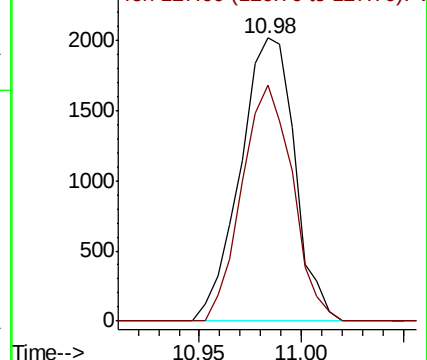
129 100

127 83.3 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.213 ug/L

RT: 11.09 min Scan# 1520

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

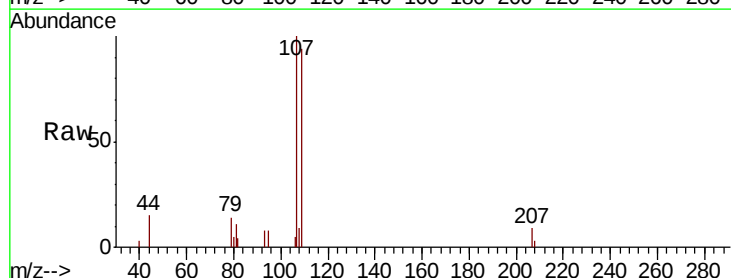
Tgt Ion:107 Resp: 3283

Ion Ratio Lower Upper

107 100

109 93.6 65.5 121.7

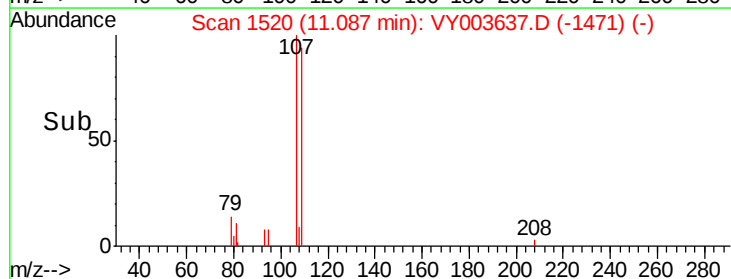
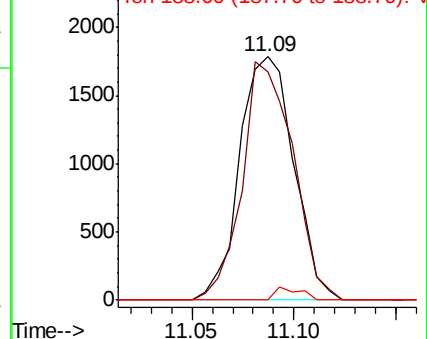
188 0.0 3.8 5.8#

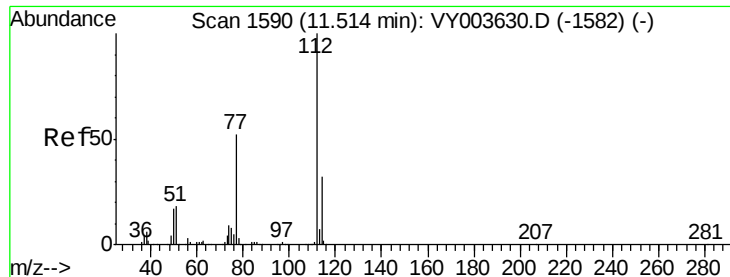


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.281 ug/L

RT: 11.51 min Scan# 1590

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampled :

MDL02

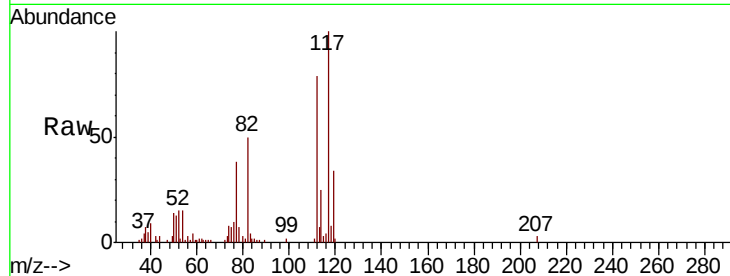
Tot Ion:112 Resp: 11379

Ion Ratio Lower Upper

112 100

114 31.6 22.2 41.2

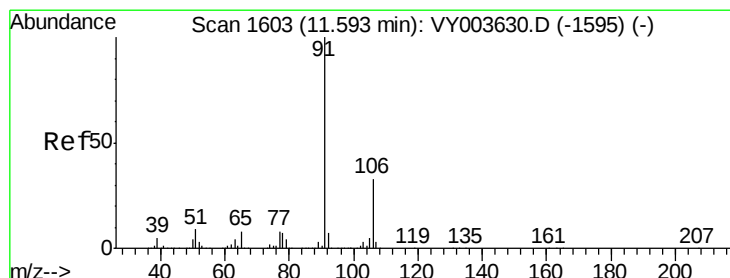
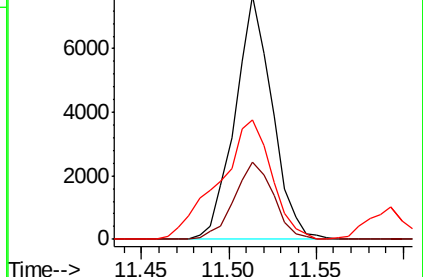
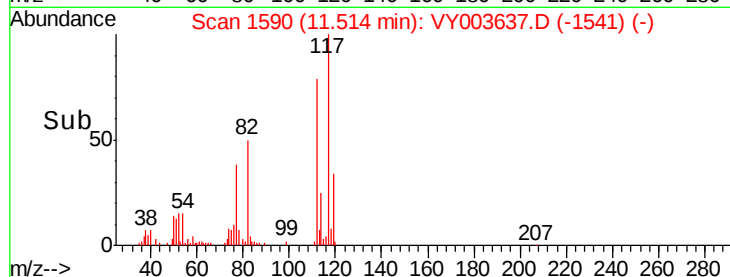
77 48.9 43.8 65.6



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): V



#52

Ethylbenzene

Concen: 1.187 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VY003637.D

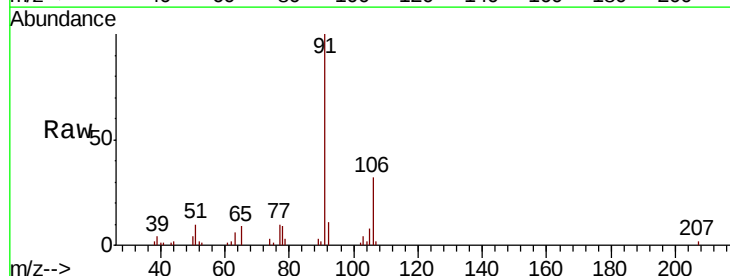
Acq: 01 Dec 2020 16:43

Tgt Ion: 91 Resp: 17519

Ion Ratio Lower Upper

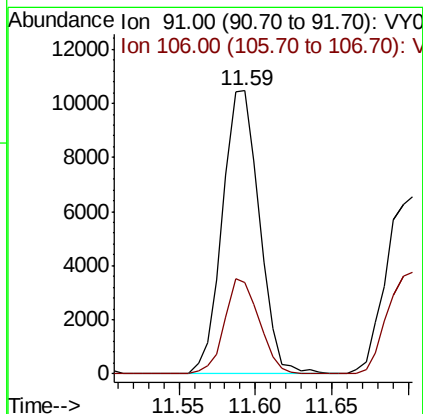
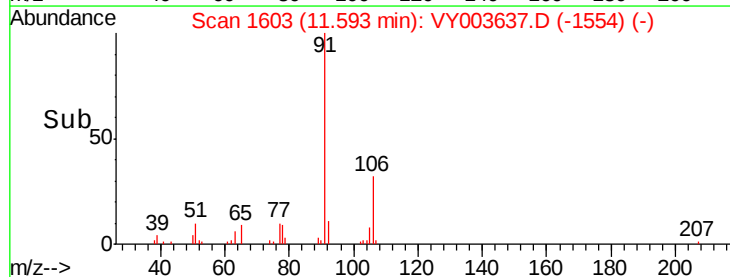
91 100

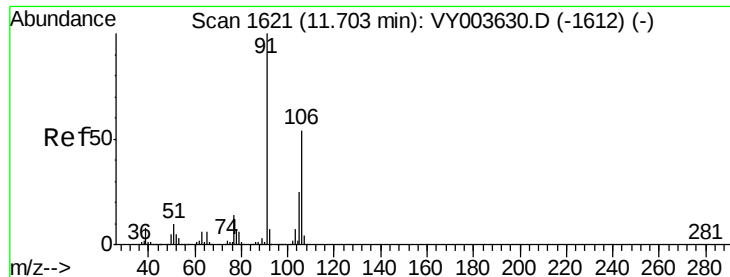
106 32.3 22.8 42.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.248 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

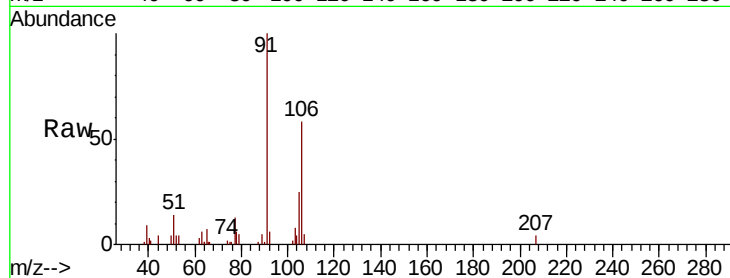
MDL02

Tot Ion:106 Resp: 7201

Ion Ratio Lower Upper

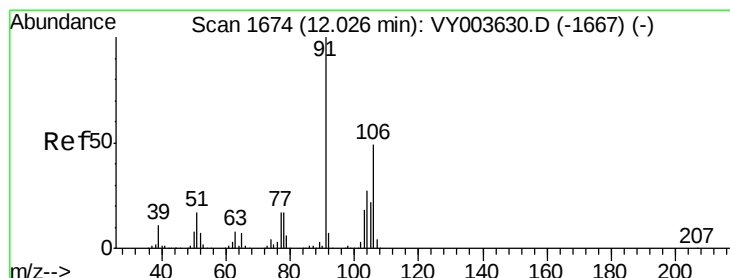
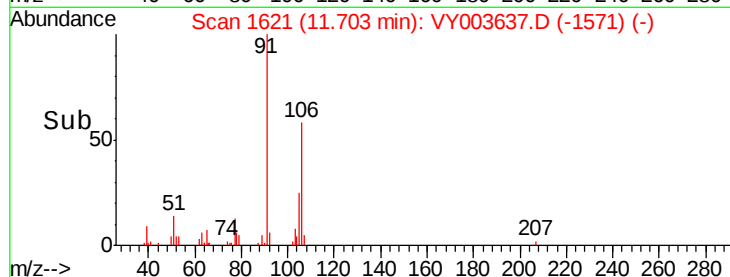
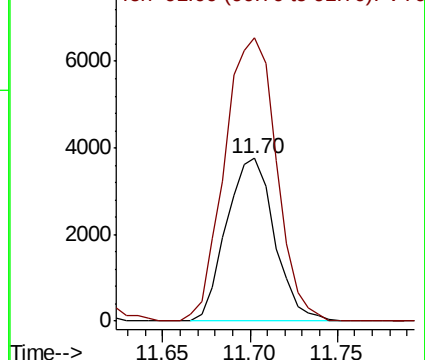
106 100

91 173.8 133.1 247.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#54

o-Xylene

Concen: 1.121 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VY003637.D

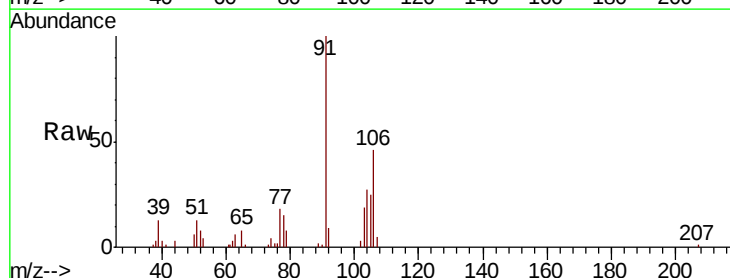
Acq: 01 Dec 2020 16:43

Tgt Ion:106 Resp: 6108

Ion Ratio Lower Upper

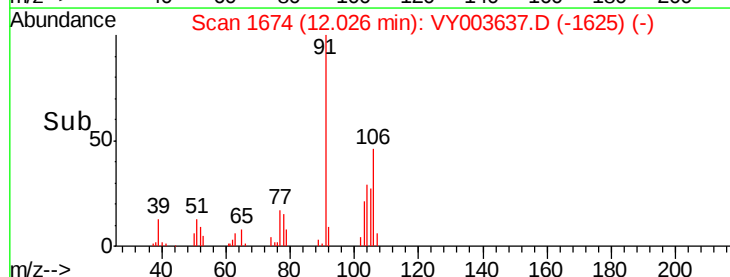
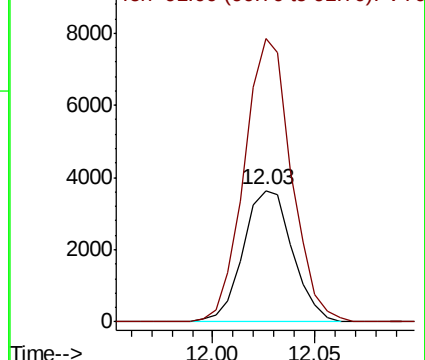
106 100

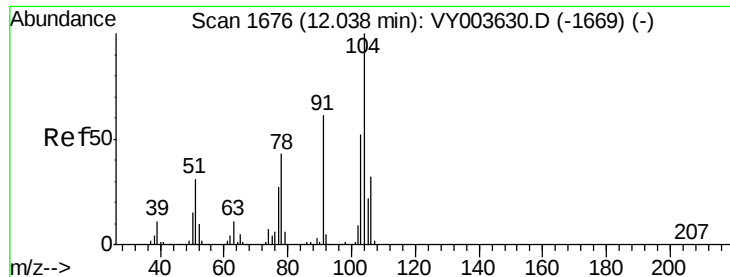
91 215.3 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#55

Stvrene

Concen: 1.068 ug/L

RT: 12.04 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

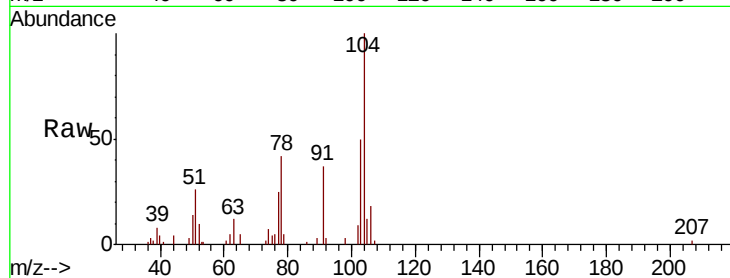
MDL02

Tot Ion:104 Resp: 9960

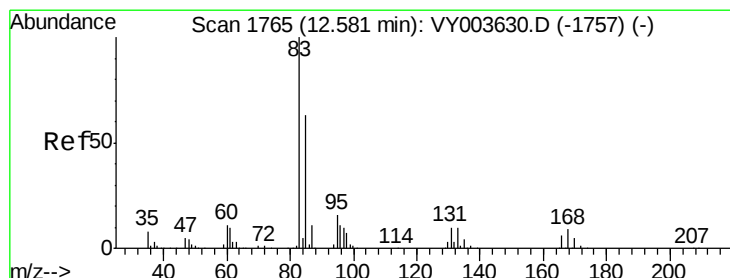
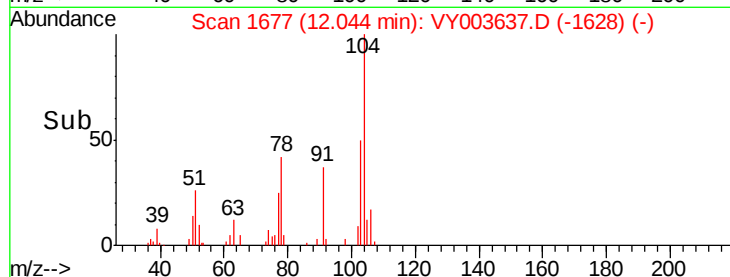
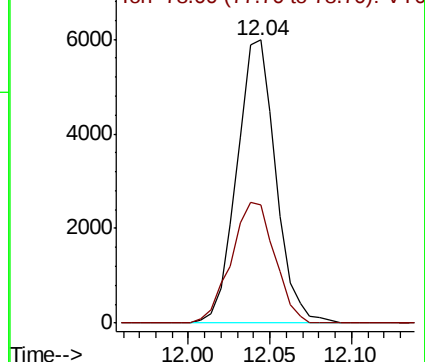
Ion Ratio Lower Upper

104 100

78 41.9 27.6 51.4



Abundance Ion 104.00 (103.70 to 104.70): VY003637.D (-1670) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 1.335 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

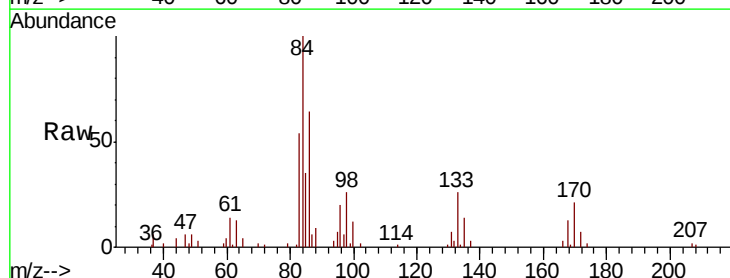
Tgt Ion: 83 Resp: 4950

Ion Ratio Lower Upper

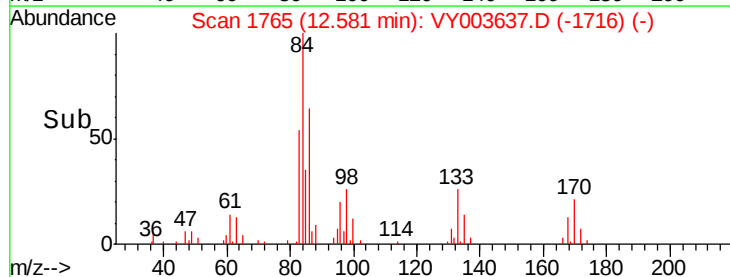
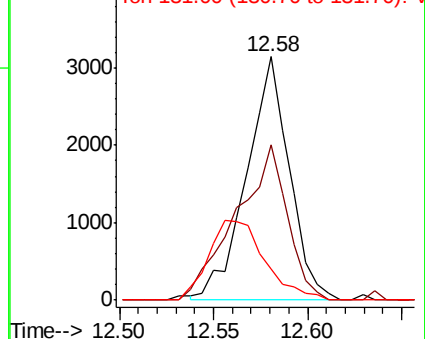
83 100

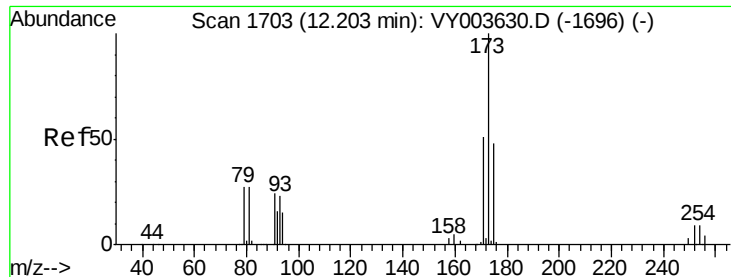
85 64.0 46.1 85.7

131 12.8 8.1 12.1#



Abundance Ion 83.00 (82.70 to 83.70): VY003637.D (-1758) (-)





#59

Bromoform

Concen: 1.200 ug/L

RT: 12.21 min Scan# 1704

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

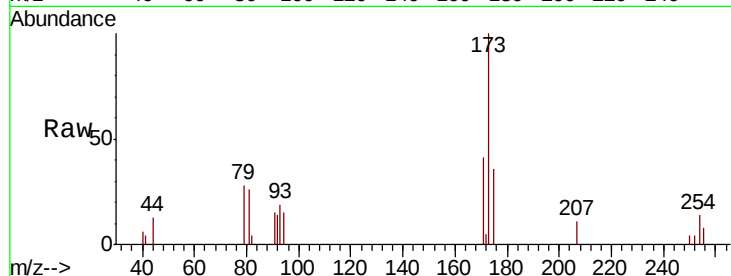
Tot Ion:173 Resp: 2517

Ion Ratio Lower Upper

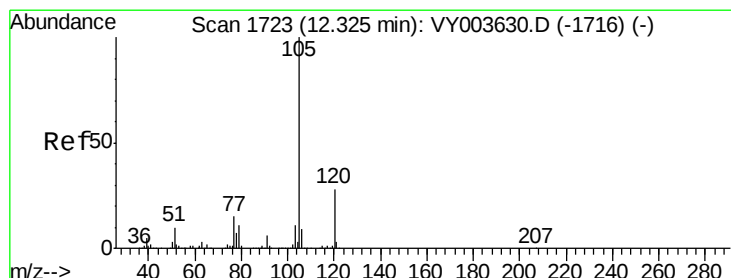
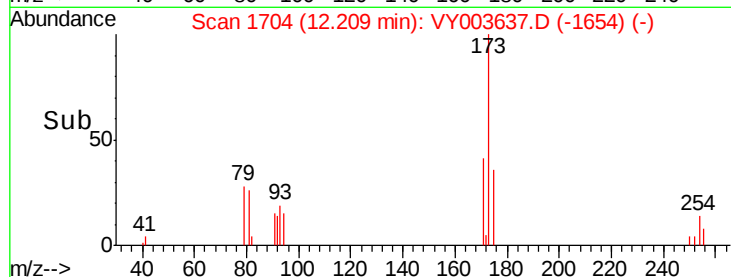
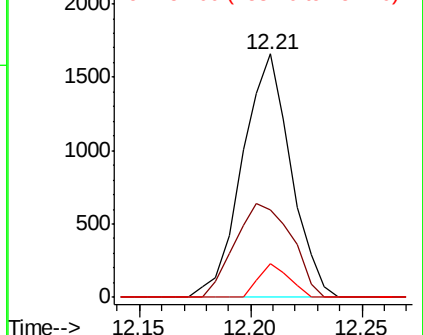
173 100

175 44.8 38.2 57.4

254 8.7 8.0 12.0



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



#60

Isopropylbenzene

Concen: 1.089 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.01 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

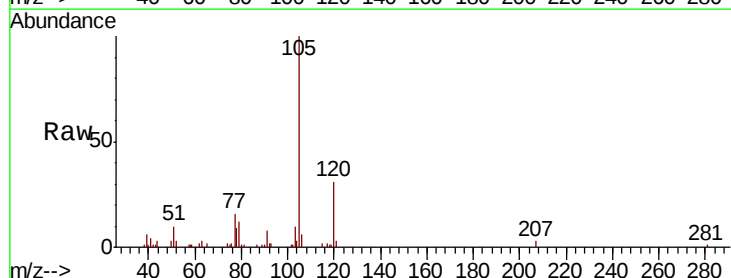
Tgt Ion:105 Resp: 14875

Ion Ratio Lower Upper

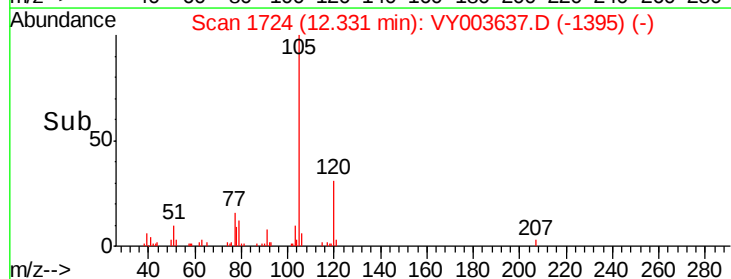
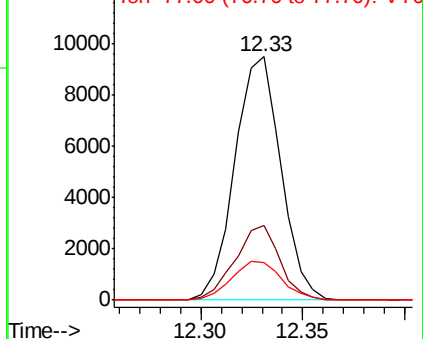
105 100

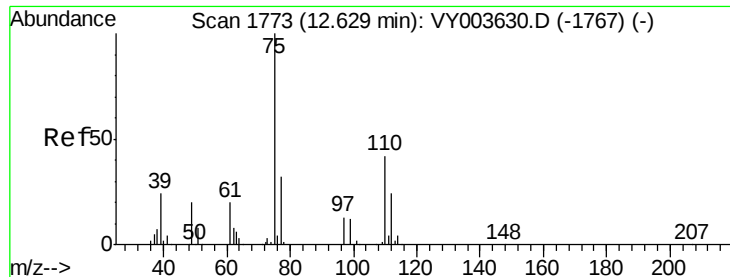
120 29.8 22.0 33.0

77 17.3 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

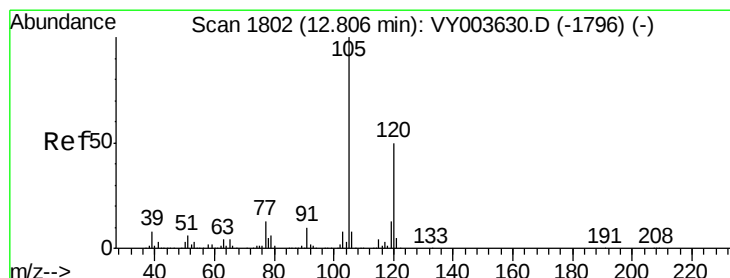
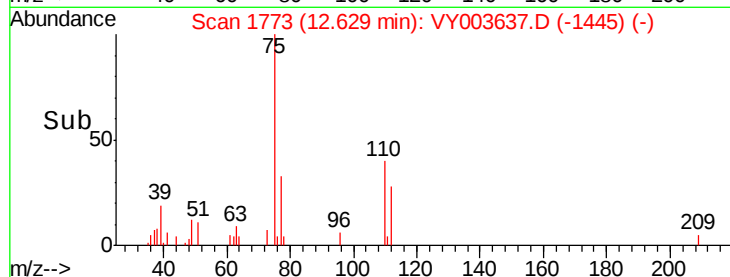
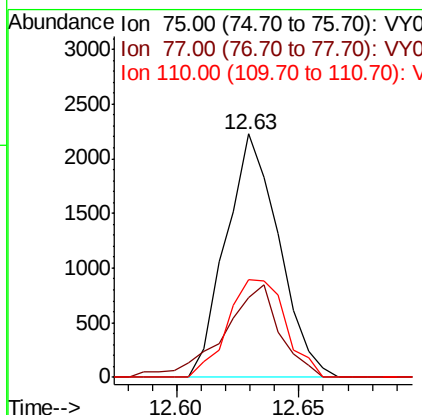
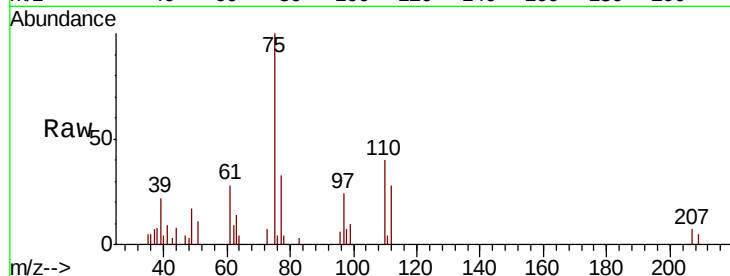




#61
 1,2,3-Trichloropropane
 Concen: 1.309 ug/L
 RT: 12.63 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

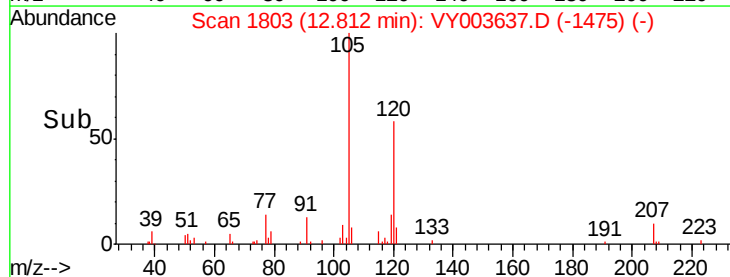
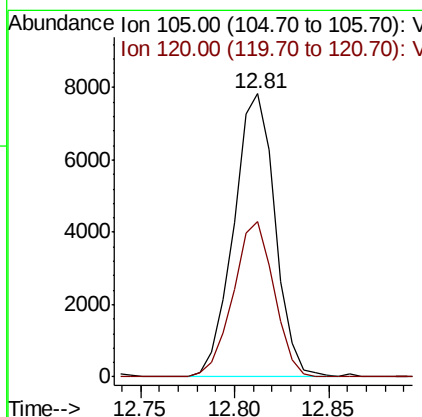
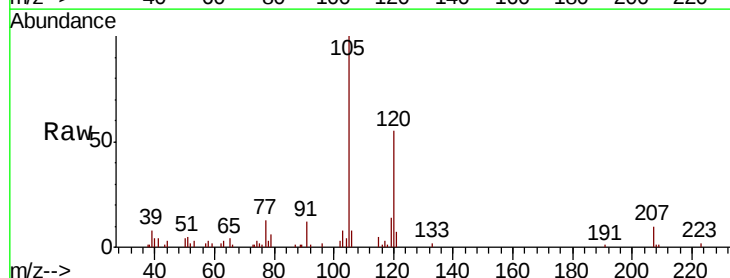
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

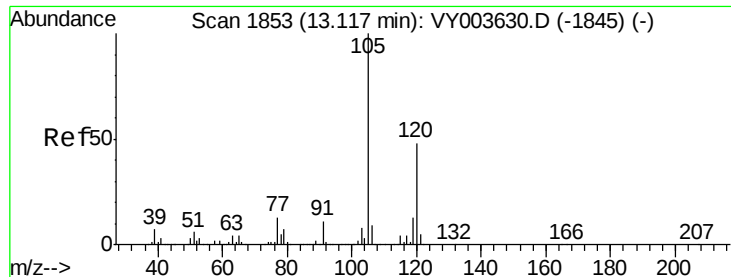
Tot Ion: 75 Resp: 3345
 Ion Ratio Lower Upper
 75 100
 77 39.1 26.3 39.5
 110 44.0 33.0 49.4



#62
 1,3,5-Trimethylbenzene
 Concen: 1.098 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Tgt Ion: 105 Resp: 11896
 Ion Ratio Lower Upper
 105 100
 120 54.2 40.4 60.6

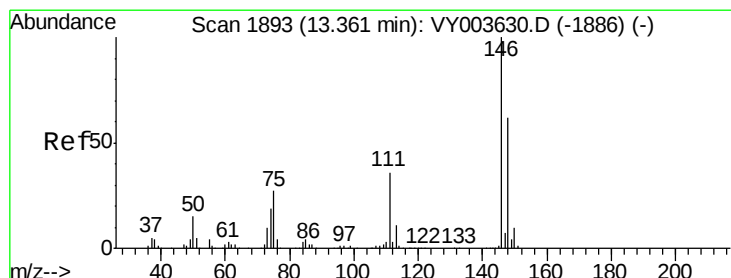
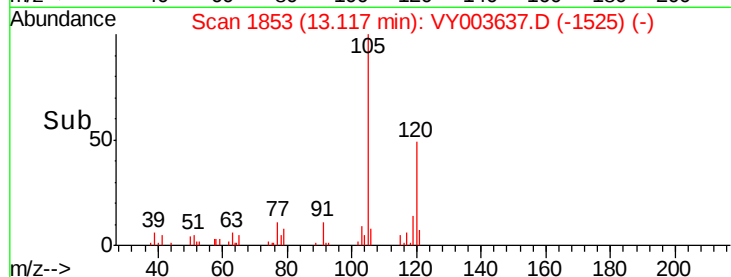
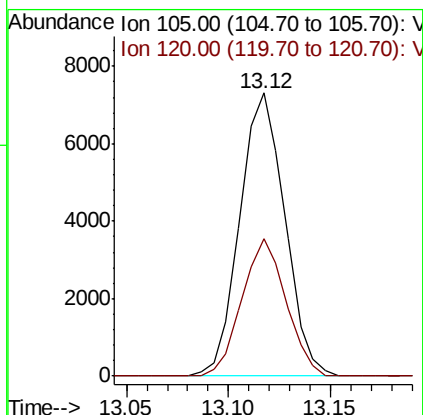
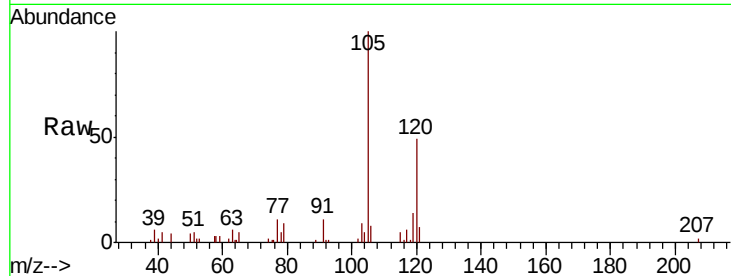




#63
1,2,4-Trimethylbenzene
Concen: 1.050 ug/L
RT: 13.12 min Scan# 1853
Delta R.T. -0.00 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

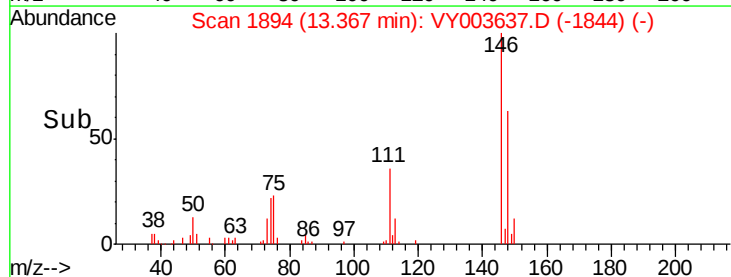
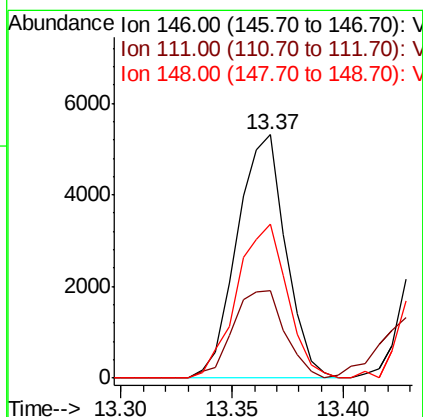
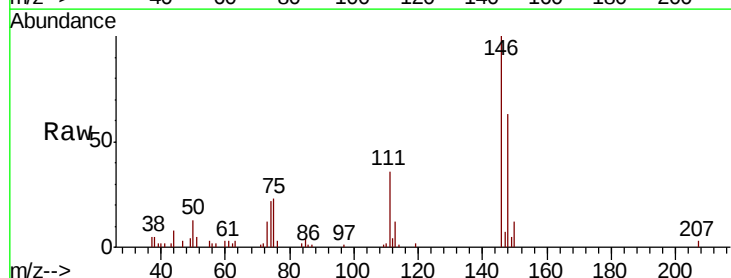
Instrument :
MSVOA_Y
ClientSampleId :
MDL02

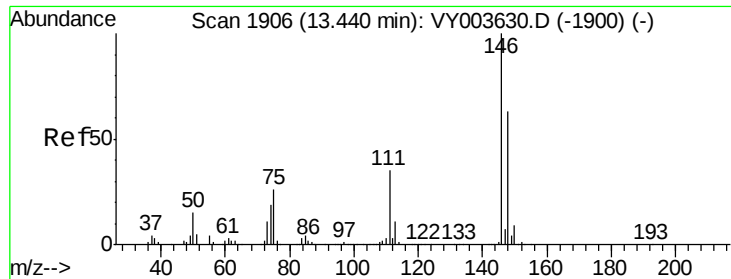
Tot Ion:105 Resp: 11233
Ion Ratio Lower Upper
105 100
120 47.4 38.0 57.0



#64
1,3-Dichlorobenzene
Concen: 1.226 ug/L
RT: 13.37 min Scan# 1894
Delta R.T. 0.01 min
Lab File: VY003637.D
Acq: 01 Dec 2020 16:43

Tgt Ion:146 Resp: 8102
Ion Ratio Lower Upper
146 100
111 35.8 26.6 49.4
148 63.1 46.3 86.1

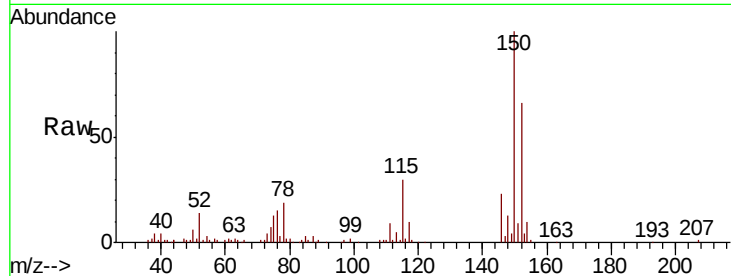




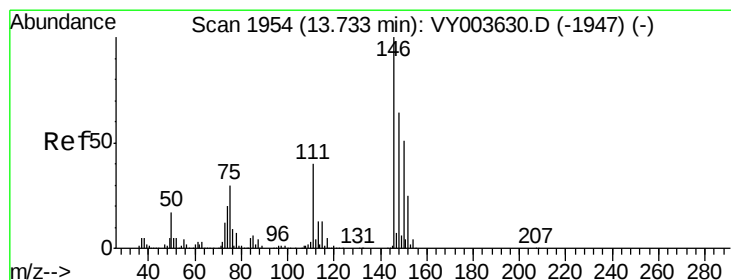
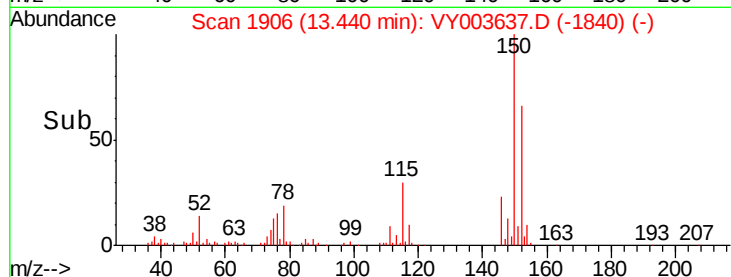
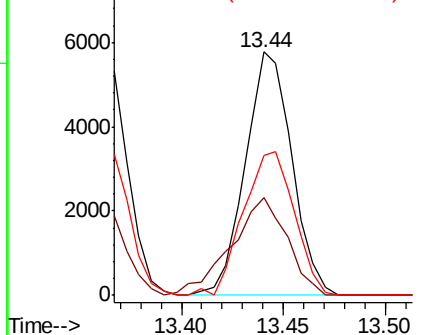
#65
 1,4-Dichlorobenzene
 Concen: 1.367 ug/L
 RT: 13.44 min Scan# 1906
 Delta R.T. -0.00 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

Tot Ion:146 Resp: 9179
 Ion Ratio Lower Upper
 146 100
 111 39.9 24.7 45.9
 148 57.6 43.4 80.6

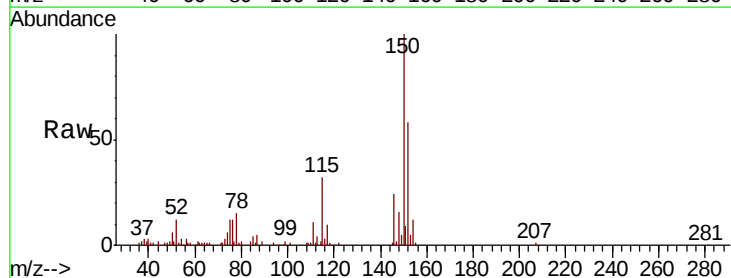


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

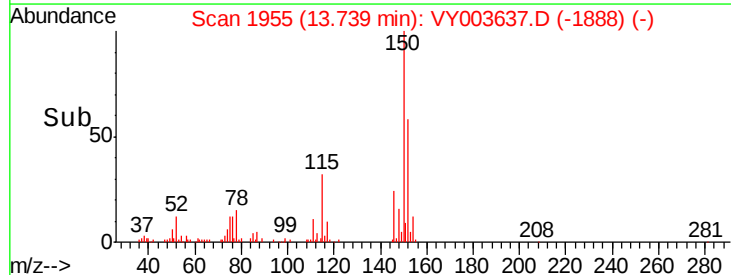
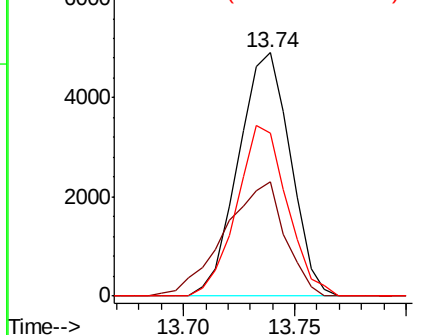


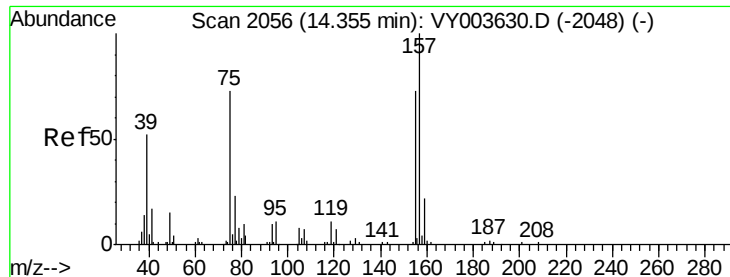
#67
 1,2-Dichlorobenzene
 Concen: 1.287 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.01 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Tgt Ion:146 Resp: 7987
 Ion Ratio Lower Upper
 146 100
 111 47.1 31.0 46.6#
 148 67.2 51.0 76.4



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





#68

1,2-Dibromo-3-chloropropane

Concen: 1.850 ug/L

RT: 14.50 min Scan# 2080

Delta R.T. 0.15 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL02

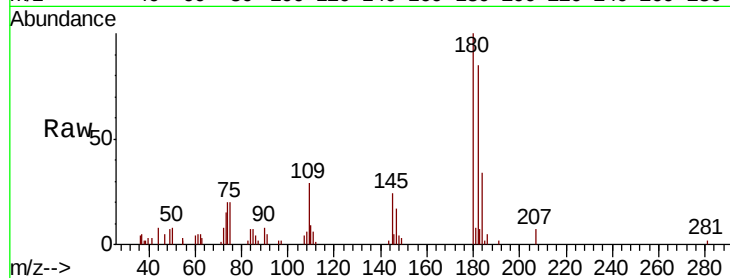
Tot Ion: 75 Resp: 1097

Ion Ratio Lower Upper

75 100

155 0.0 73.4 110.0#

157 0.0 98.1 147.1#

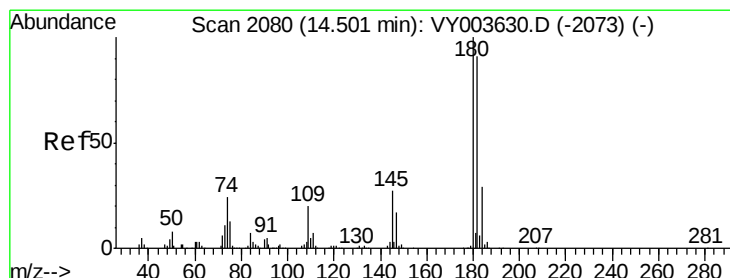
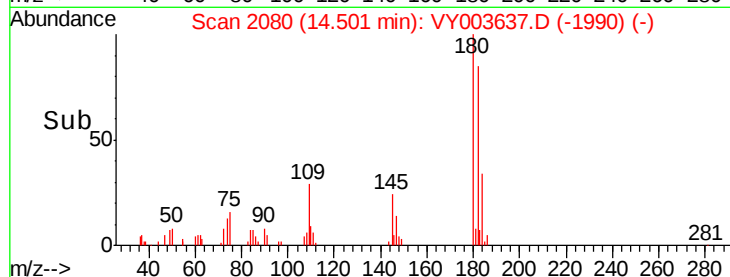
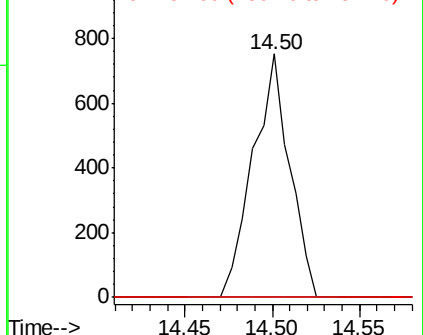


Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#69

1,3,5-Trichlorobenzene

Concen: 1.185 ug/L

RT: 14.50 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VY003637.D

Acq: 01 Dec 2020 16:43

Tgt Ion: 180 Resp: 5503

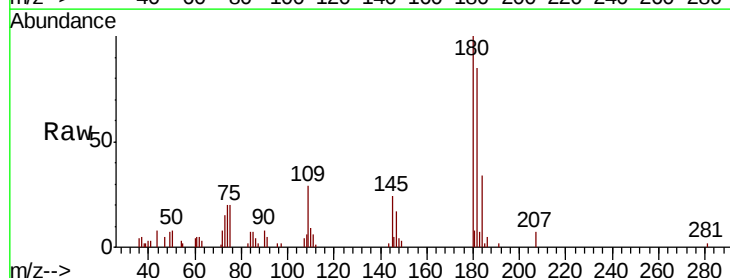
Ion Ratio Lower Upper

180 100

182 97.7 75.4 113.0

184 35.1 24.1 36.1

145 28.3 22.4 33.6



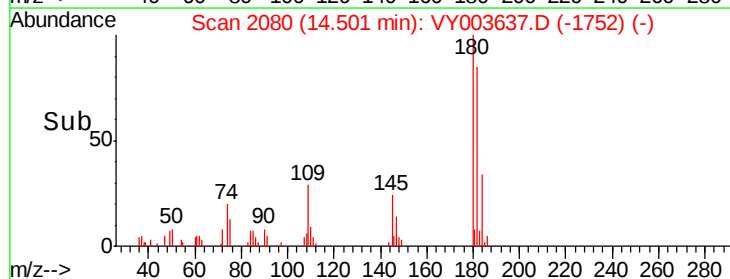
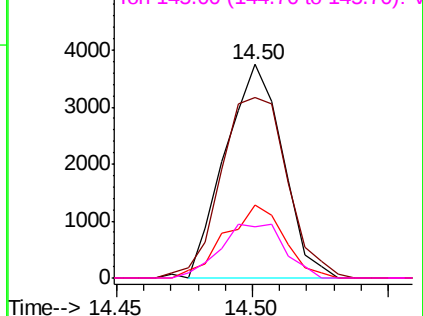
Abundance

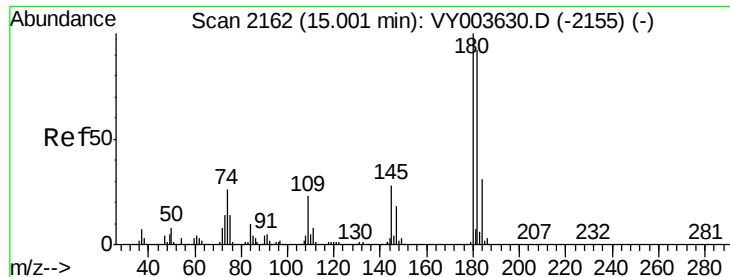
Ion 180.00 (179.70 to 180.70): V

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

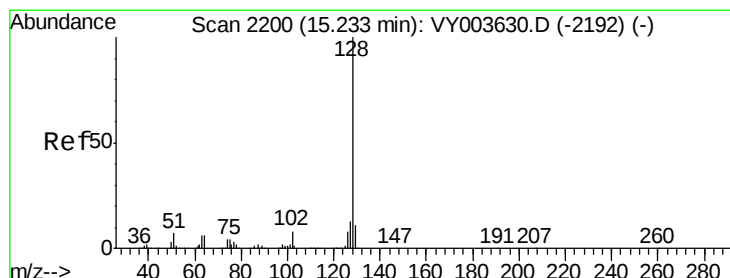
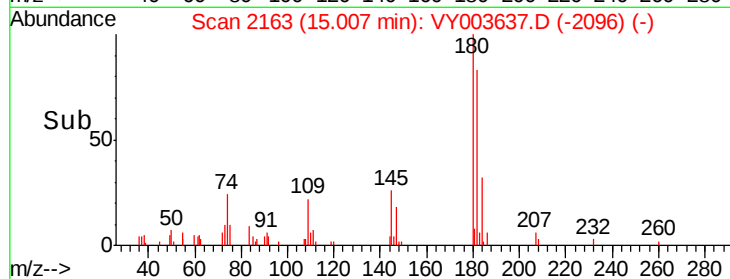
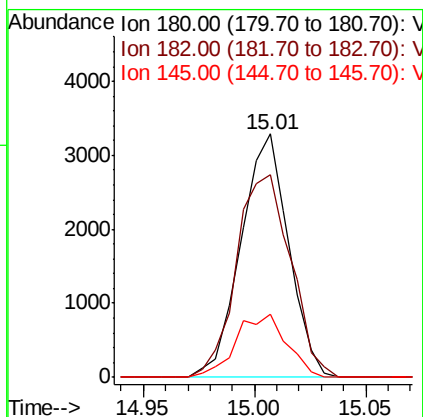
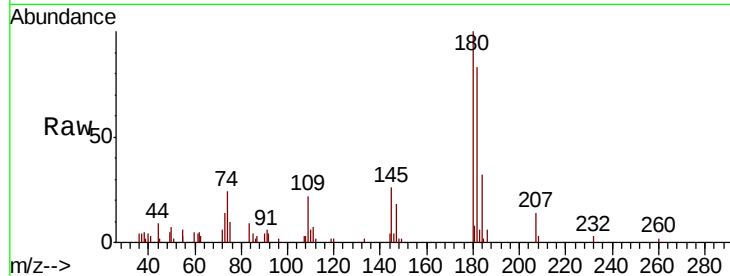




#70
 1,2,4-trichlorobenzene
 Concen: 1.238 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.01 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

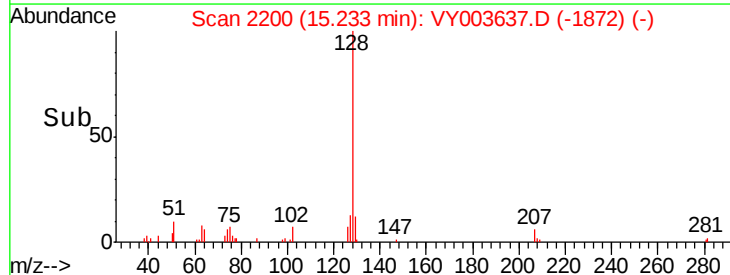
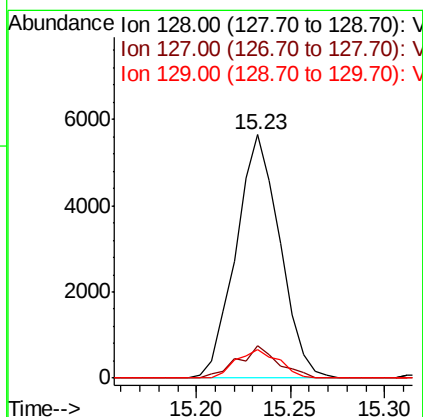
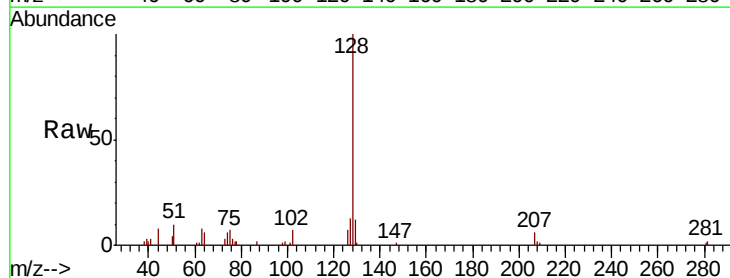
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

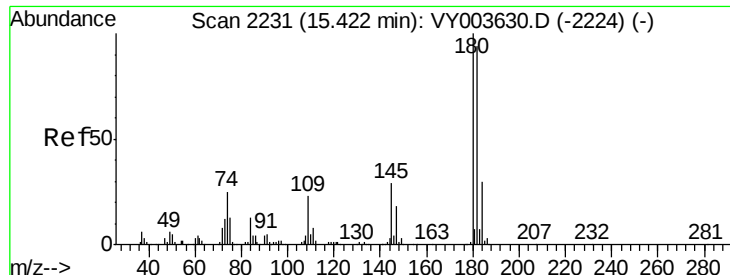
Tot Ion:180 Resp: 4894
 Ion Ratio Lower Upper
 180 100
 182 94.6 76.1 114.1
 145 27.6 22.8 34.2



#71
 Naphthalene
 Concen: 1.060 ug/L
 RT: 15.23 min Scan# 2200
 Delta R.T. -0.00 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Tgt Ion:128 Resp: 9147
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.4 15.6
 129 11.4 8.5 12.7

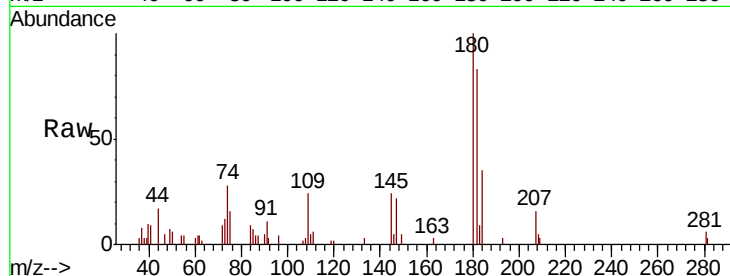




#72
 1,2,3-Trichlorobenzene
 Concen: 1.182 ug/L
 RT: 15.42 min Scan# 2230
 Delta R.T. -0.01 min
 Lab File: VY003637.D
 Acq: 01 Dec 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.2	114.4
145	29.5	23.6	35.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

