

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111219\
 Data File : VY000659.D
 Acq On : 12 Nov 2019 16:23
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 3:07:21 PM

Quant Time: Nov 13 10:18:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 03:04:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	342170	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	318227	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	151373	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	120861	25.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.04%
7) Chloroethane-d5	2.76	69	110404	25.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.84%
10) 1,1-Dichloroethene-d2	3.85	63	165674	18.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.24%
20) 2-Butanone-d5	6.91	46	105165	52.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.48%
24) Chloroform-d	7.49	84	217382	24.21	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.84%
26) 1,2-Dichloroethane-d4	8.15	65	130187	25.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.04%
29) Benzene-d6	8.12	84	461015	24.95	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.80%
33) 1,2-Dichloropropane-d6	9.13	67	144679	24.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.92%
37) Toluene-d8	10.18	98	420598	24.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.44%
38) trans-1,3-Dichloropropene-	10.44	79	67409	24.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.80%
39) 2-Hexanone-d5	10.79	63	81656	52.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.32%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	134966	23.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.84%
61) 1,2-Dichlorobenzene-d4	13.72	152	149397	24.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.90	85	5956	1.317 ug/L	97
3) Chloromethane	2.12	50	6949	1.226 ug/L	96
5) Vinyl chloride	2.25	62	7070	1.250 ug/L #	53
6) Bromomethane	2.66	94	3725	1.206 ug/L	99
8) Chloroethane	2.80	64	4309	1.215 ug/L #	64
9) Trichlorofluoromethane	3.13	101	9572m	1.195 ug/L	
11) 1,1,2-Trichloro-1,2,2-trif	3.89	101	6076m	1.337 ug/L	
12) 1,1-Dichloroethene	3.87	96	6610m	1.490 ug/L	
13) Acetone	3.96	43	5980	4.099 ug/L	98
14) Carbon disulfide	4.19	76	14528	1.061 ug/L	97
15) Methyl Acetate	4.49	43	4175	1.249 ug/L #	65
16) Methylene chloride	4.72	84	12977	2.297 ug/L	87
17) Methyl tert-butyl Ether	5.23	73	15230	1.128 ug/L #	94
18) trans-1,2-Dichloroethene	5.24	96	5609	1.132 ug/L	83
19) 1,1-Dichloroethane	6.03	63	10213	1.171 ug/L	95
21) 2-Butanone	7.00	43	8845	3.442 ug/L #	56
22) cis-1,2-Dichloroethene	6.99	96	6940	1.266 ug/L	92

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

23) Bromochloromethane	7.36	128	3251m	1.359	ug/L	
25) Chloroform	7.52	83	17857	1.900	ug/L	83
27) 1,2-Dichloroethane	8.25	62	7742	1.232	ug/L	100
30) Cyclohexane	7.80	56	9610	1.107	ug/L #	31
31) 1,1,1-Trichloroethane	7.71	97	8747m	1.116	ug/L	
32) Carbon tetrachloride	7.91	117	8045	1.177	ug/L	98
34) Benzene	8.17	78	23266	1.118	ug/L	100
35) Trichloroethene	8.94	95	6552m	1.201	ug/L	
36) Methylcyclohexane	9.19	83	10823	1.159	ug/L	97
40) 1,2-Dichloropropane	9.23	63	6683	1.268	ug/L #	96
41) Bromodichloromethane	9.50	83	8326	1.227	ug/L	87
42) cis-1,3-Dichloropropene	9.93	75	9624m	1.133	ug/L	
43) 4-Methyl-2-pentanone	10.08	43	13519	2.681	ug/L	97
44) Toluene	10.25	91	26066	1.159	ug/L	97
45) trans-1,3-Dichloropropene	10.47	75	8515m	1.167	ug/L	
46) 1,1,2-Trichloroethane	10.65	97	5611	1.297	ug/L #	80
47) Tetrachloroethene	10.72	164	4723	1.159	ug/L	90
49) 2-Hexanone	10.84	43	10618	2.703	ug/L #	92
50) Dibromochloromethane	10.98	129	5428	1.111	ug/L	88
51) 1,2-Dibromoethane	11.09	107	5030	1.195	ug/L #	98
52) Chlorobenzene	11.51	112	17444	1.222	ug/L	89
53) Ethylbenzene	11.59	91	28561	1.122	ug/L	95
54) m,p-Xylene	11.70	106	10907	1.133	ug/L	94
55) o-xylene	12.03	106	10038	1.062	ug/L	80
56) Styrene	12.05	104	16776	1.068	ug/L	81
57) Isopropylbenzene	12.33	105	26816	1.091	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	6658	1.234	ug/L #	80
59) 1,2,3-Trichloropropane	12.63	75	5391	1.229	ug/L	93
62) Bromoform	12.21	173	2970	1.033	ug/L #	85
63) 1,3-Dichlorobenzene	13.37	146	12301	1.139	ug/L	91
64) 1,4-Dichlorobenzene	13.45	146	13510	1.252	ug/L	94
65) 1,2-Dichlorobenzene	13.74	146	12314	1.231	ug/L	91
66) 1,2-Dibromo-3-chloropropan	14.36	75	1204	1.267	ug/L #	81
67) 1,3,5-Trichlorobenzene	14.50	180	8749	1.162	ug/L	99
68) 1,2,4-trichlorobenzene	15.01	180	8147	1.211	ug/L	95
69) Naphthalene	15.23	128	19787	1.180	ug/L	97
70) 1,2,3-Trichlorobenzene	15.42	180	8214	1.313	ug/L	96

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

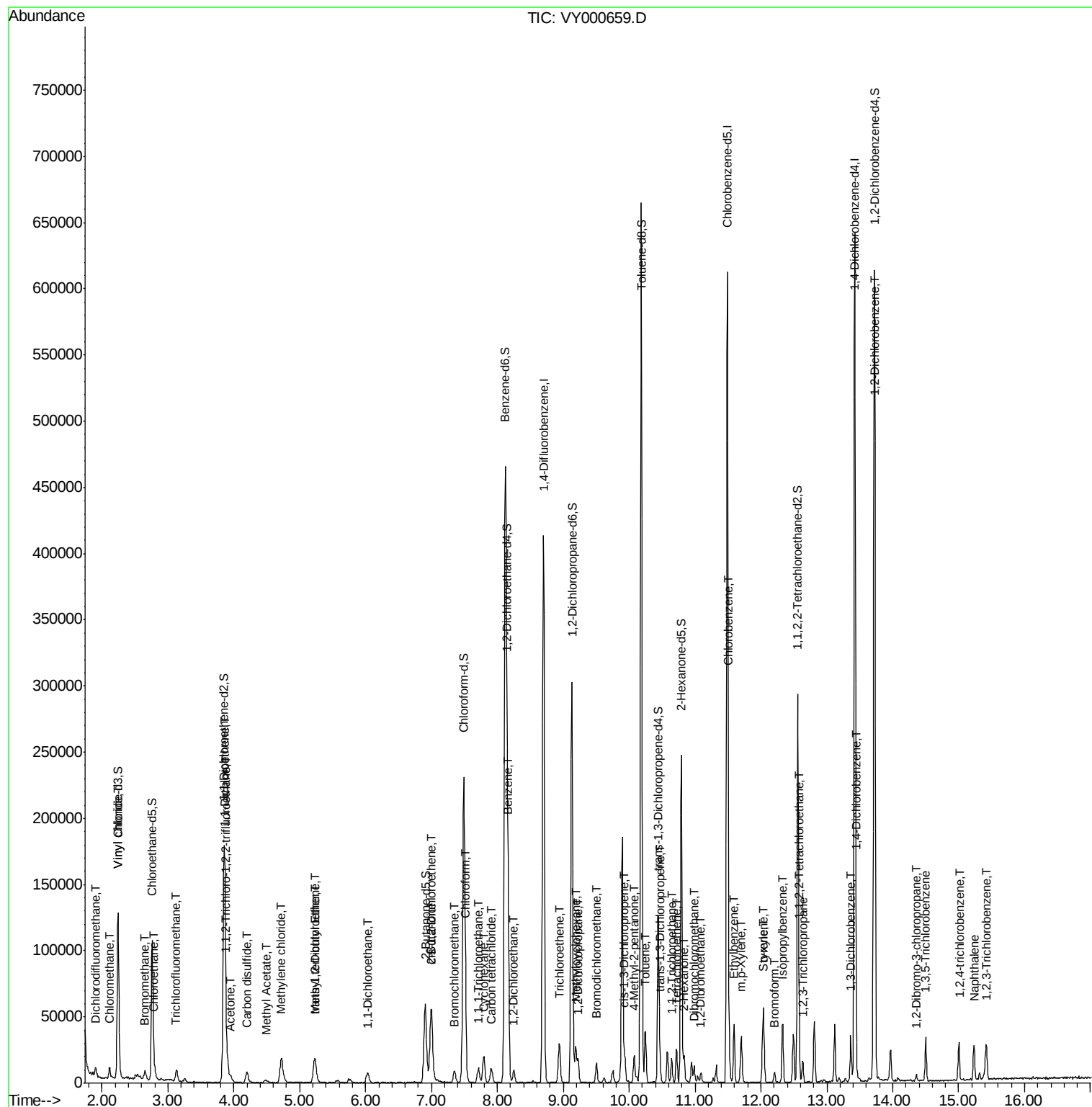
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY111219\
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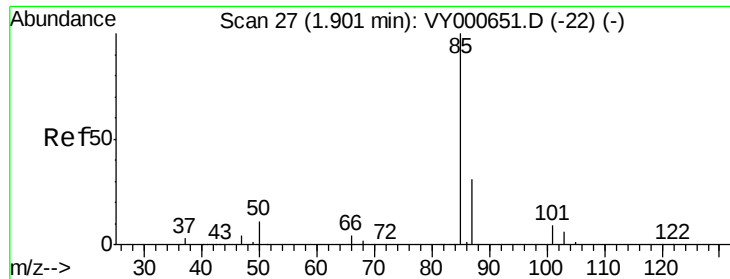
Instrument :
MSVOA_Y
ClientSampleId :
MDL07

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#2

Dichlorodifluoromethane

Concen: 1.317 ug/L

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 5956

Ion Ratio Lower Upper

85 100

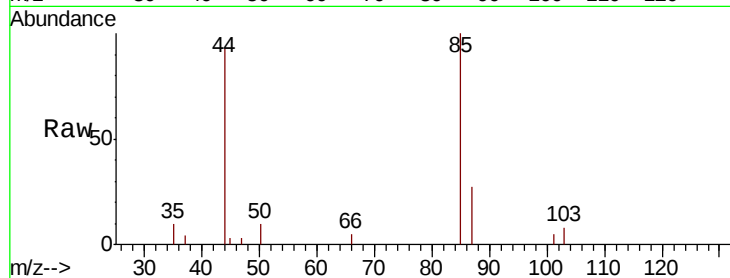
87 34.3 22.7 42.1

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

5000

4000

3000

2000

1000

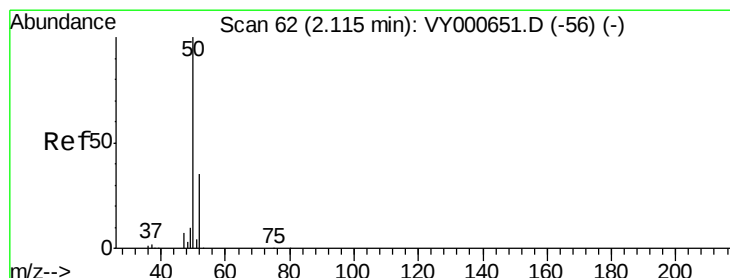
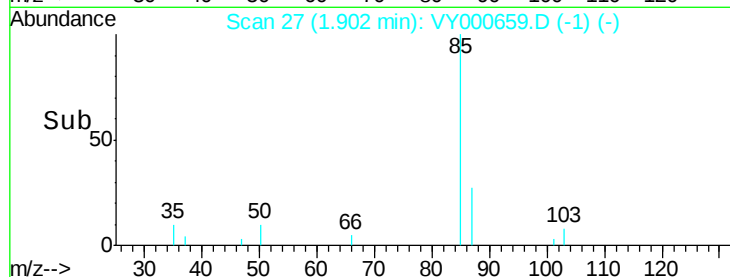
0

1.85

1.90

1.95

Time-->



#3

Chloromethane

Concen: 1.226 ug/L

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000659.D

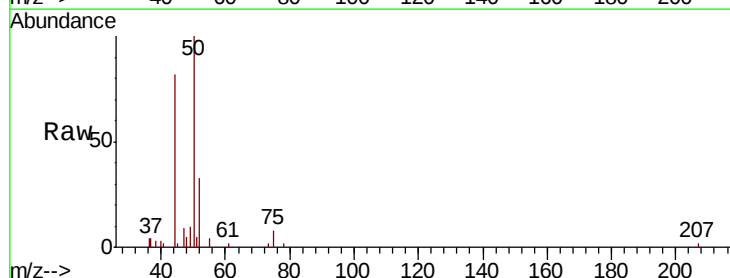
Acq: 12 Nov 2019 16:23

Tgt Ion: 50 Resp: 6949

Ion Ratio Lower Upper

50 100

52 33.5 24.9 46.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

5000

4000

3000

2000

1000

0

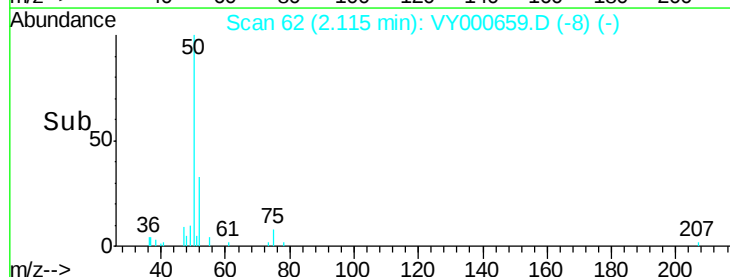
2.05

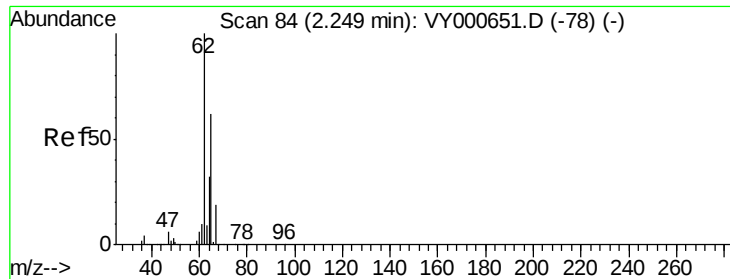
2.10

2.15

2.20

Time-->





#5

Vinyl chloride

Concen: 1.250 ug/L

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleID :

MDL07

Tot Ion: 62 Resp: 7070

Ion Ratio Lower Upper

62 100

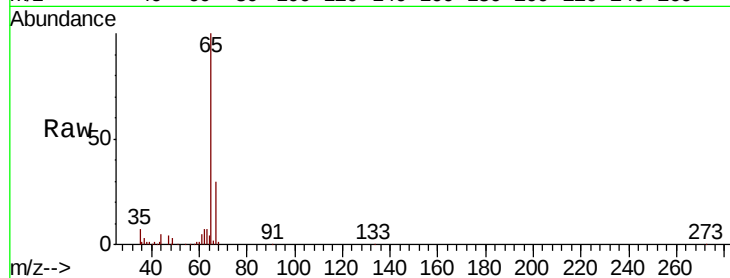
64 57.5 22.0 40.8#

Manual Integrations

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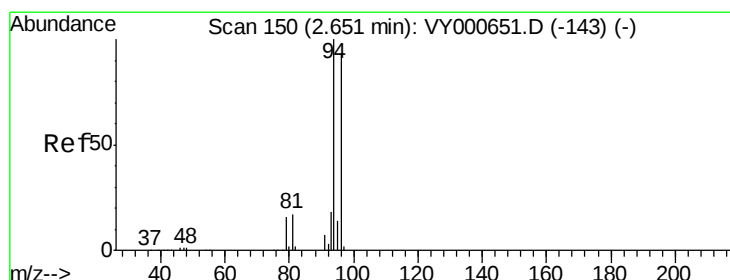
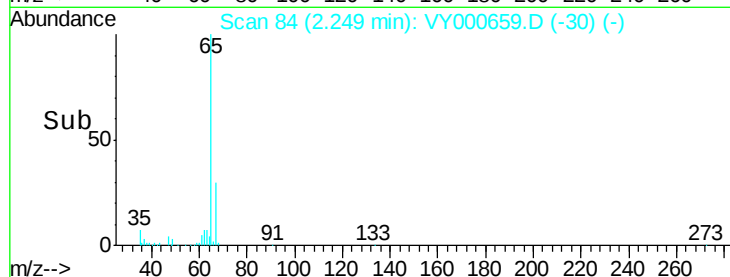
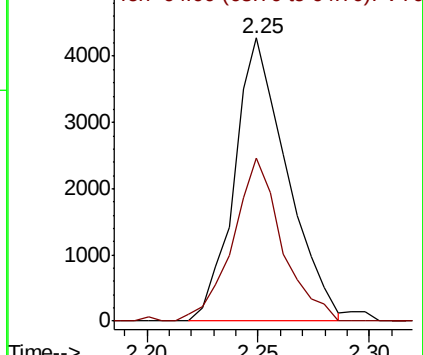
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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.206 ug/L

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000659.D

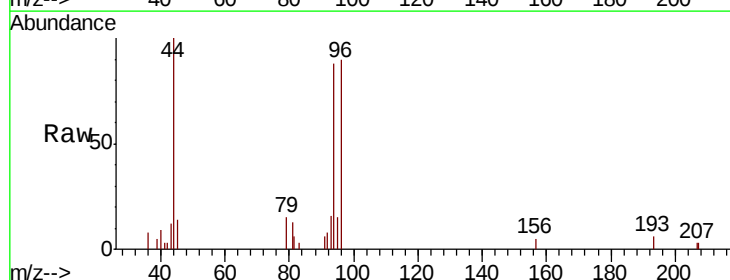
Acq: 12 Nov 2019 16:23

Tgt Ion: 94 Resp: 3725

Ion Ratio Lower Upper

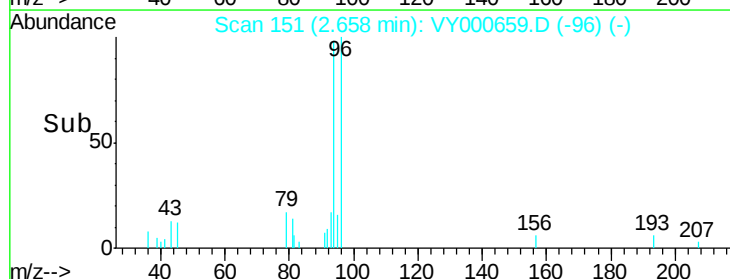
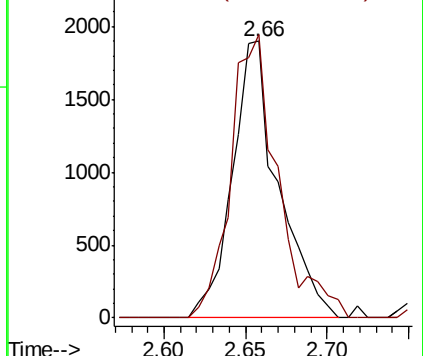
94 100

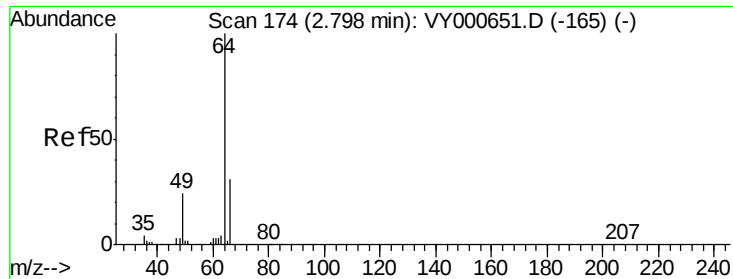
96 97.1 9.8 185.6



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 1.215 ug/L

RT: 2.80 min Scan# 174

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 4309

Ion Ratio Lower Upper

64 100

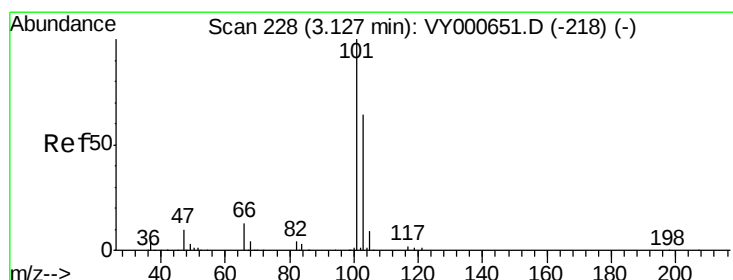
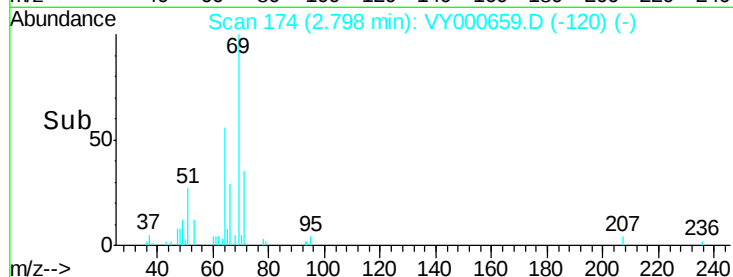
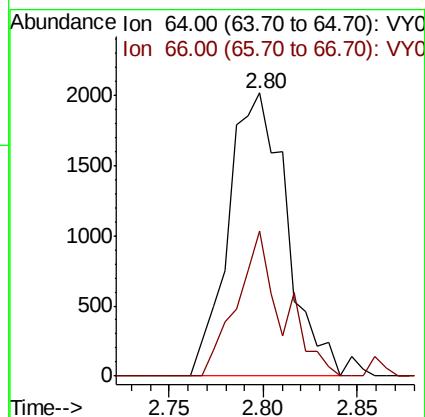
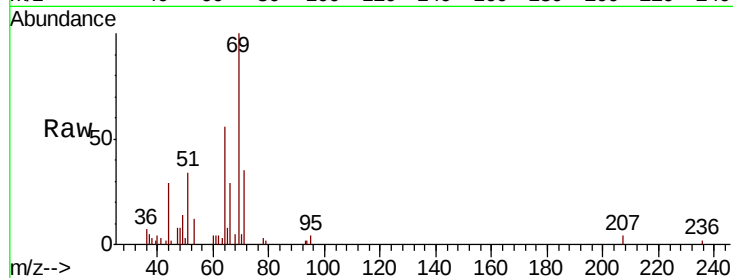
66 51.5 22.2 41.2#

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 1.195 ug/L m

RT: 3.13 min Scan# 228

Delta R.T. 0.00 min

Lab File: VY000659.D

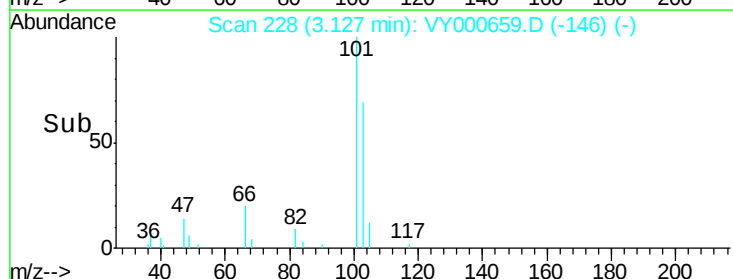
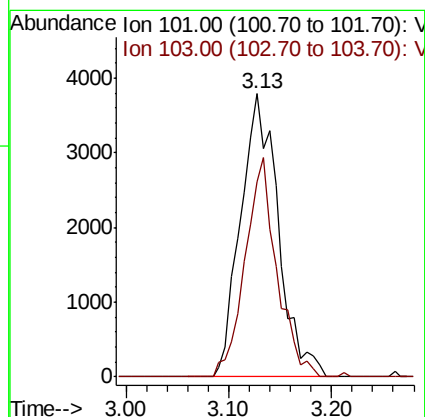
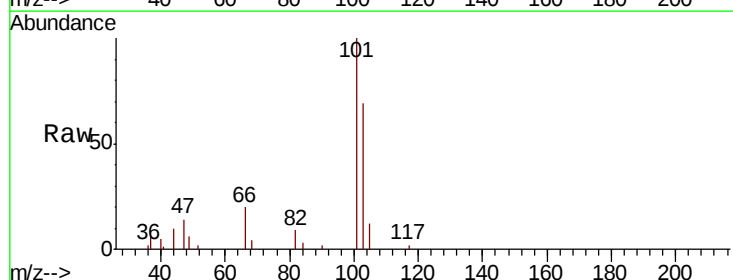
Acq: 12 Nov 2019 16:23

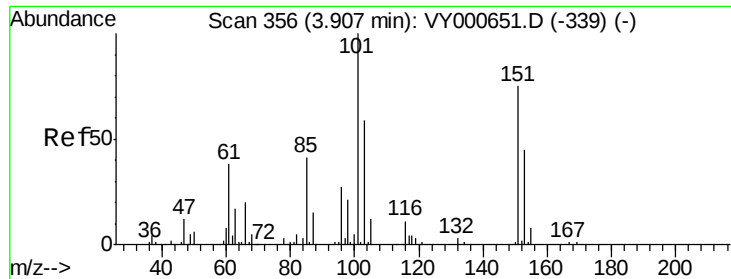
Tgt Ion:101 Resp: 9572

Ion Ratio Lower Upper

101 100

103 64.1 45.8 85.0





#11

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

Concen: 1.337 ug/L m

RT: 3.89 min Scan# 353

Delta R.T. -0.02 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

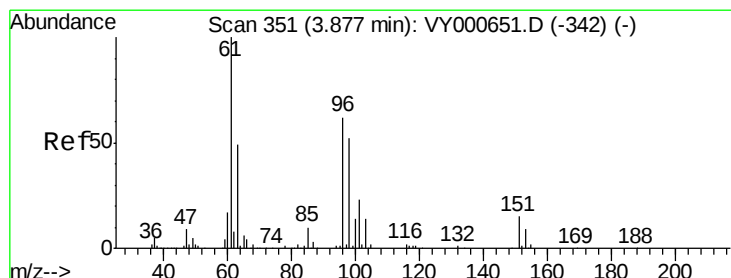
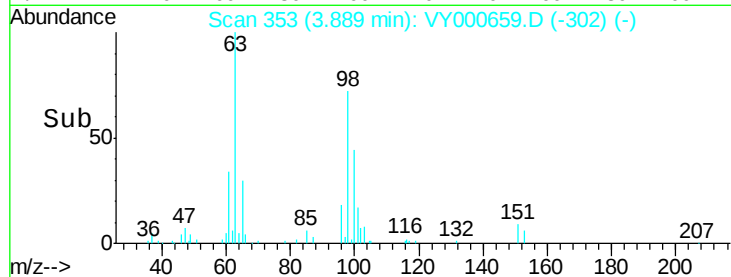
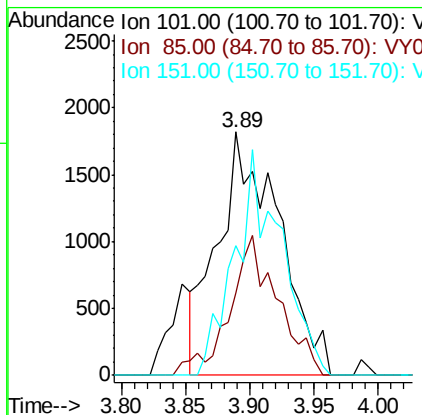
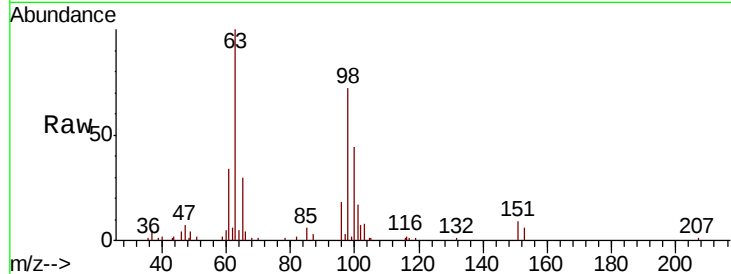
ClientSampled :

MDL07

Tot Ion:	101	Resp:	6076
Ion Ratio	Lower	Upper	
101	100		
85	0.0	35.3	52.9#
151	21.5	61.9	92.9#

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#12

1,1-Dichloroethene

Concen: 1.490 ug/L m

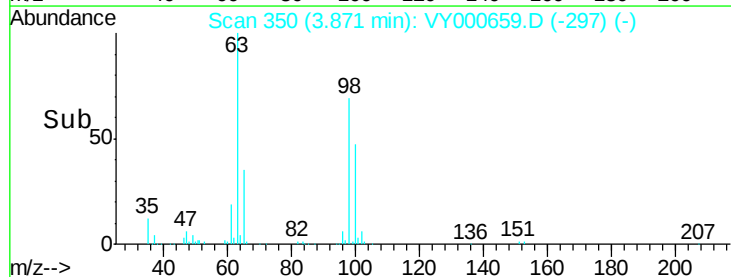
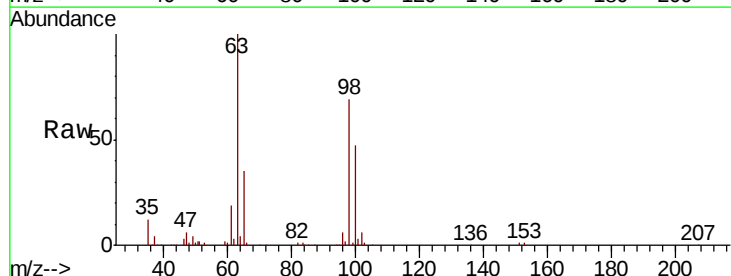
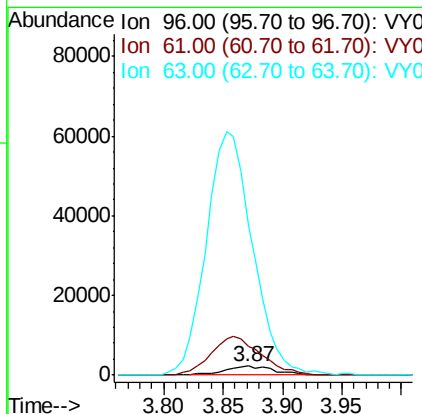
RT: 3.87 min Scan# 350

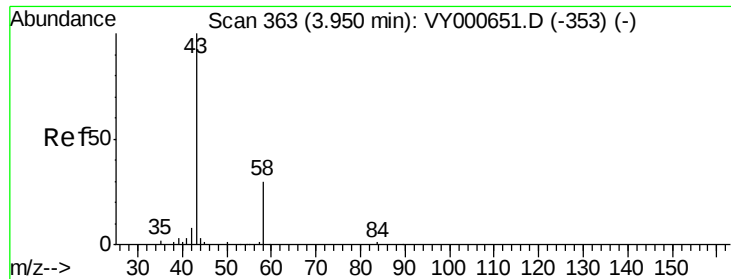
Delta R.T. -0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Tgt Ion:	96	Resp:	6610
Ion Ratio	Lower	Upper	
96	100		
61	309.2	113.5	210.9#
63	1638.2	94.3	175.1#





#13

Acetone

Concen: 4.099 ug/L

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

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Tot Ion: 43 Resp: 5980

Ion Ratio Lower Upper

43 100

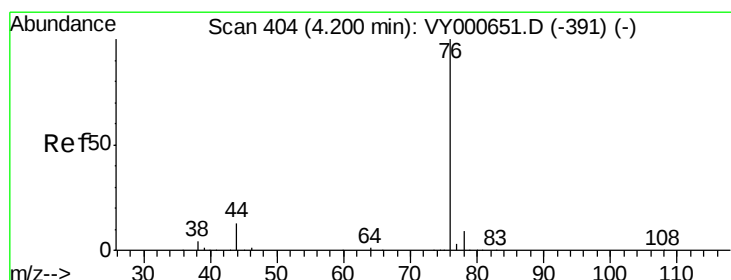
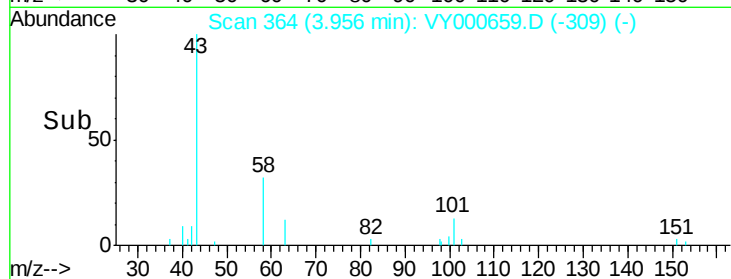
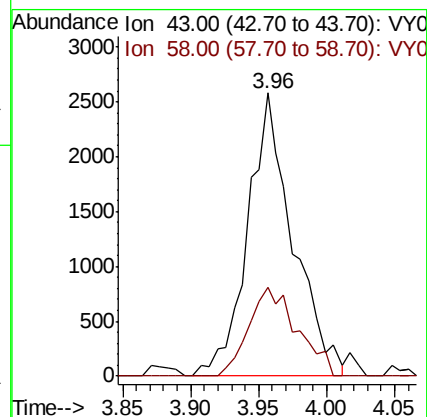
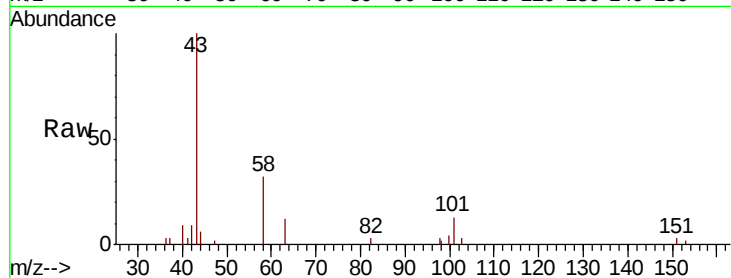
58 33.7 0.0 64.8

Manual Integrations

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#14

Carbon disulfide

Concen: 1.061 ug/L

RT: 4.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: VY000659.D

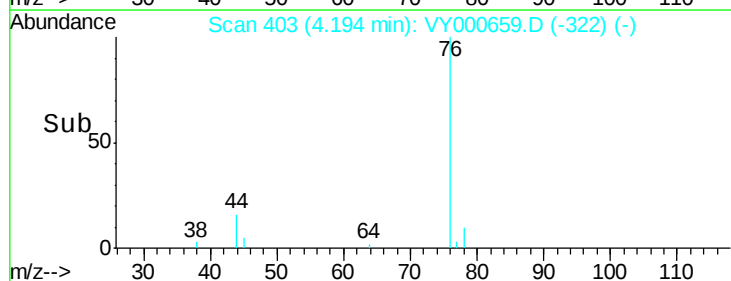
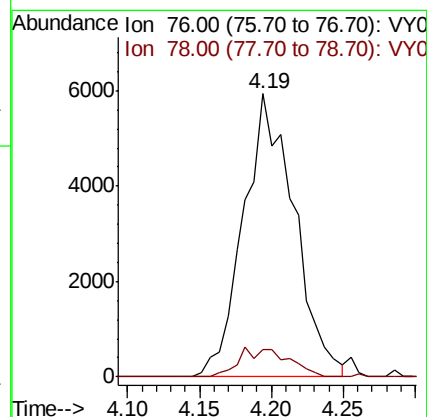
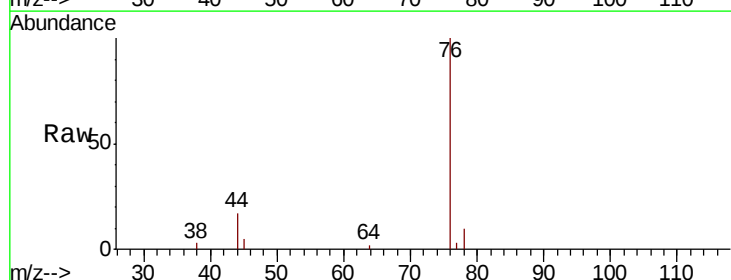
Acq: 12 Nov 2019 16:23

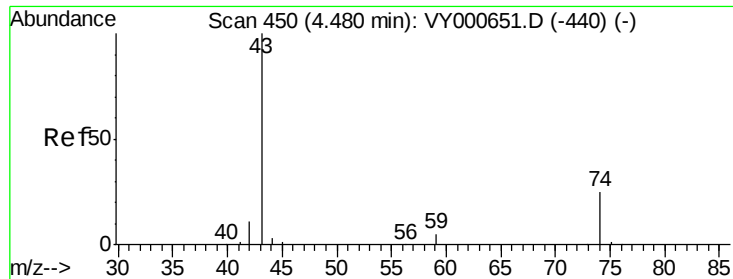
Tgt Ion: 76 Resp: 14528

Ion Ratio Lower Upper

76 100

78 9.8 7.0 10.6





#15

Methyl Acetate

Concen: 1.249 ug/L

RT: 4.49 min Scan# 452

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4175

Ion Ratio Lower Upper

43 100

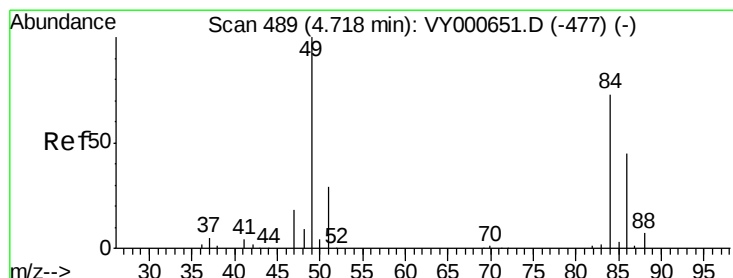
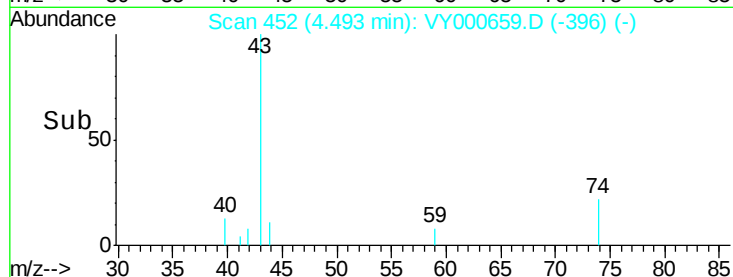
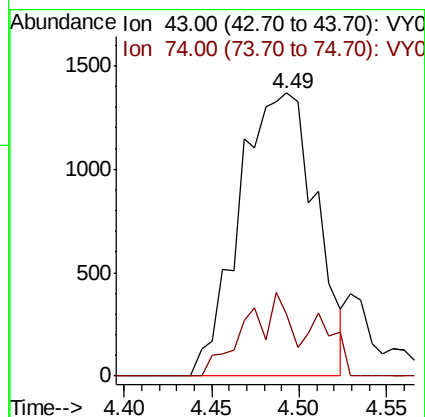
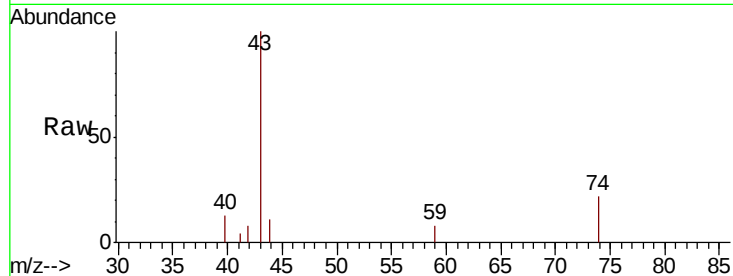
74 5.8 18.1 27.1#

Manual Integrations

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#16

Methylene chloride

Concen: 2.297 ug/L

RT: 4.72 min Scan# 489

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

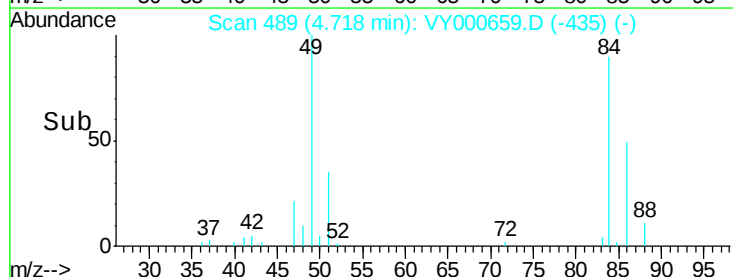
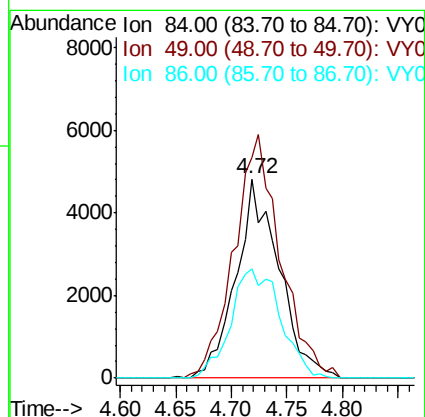
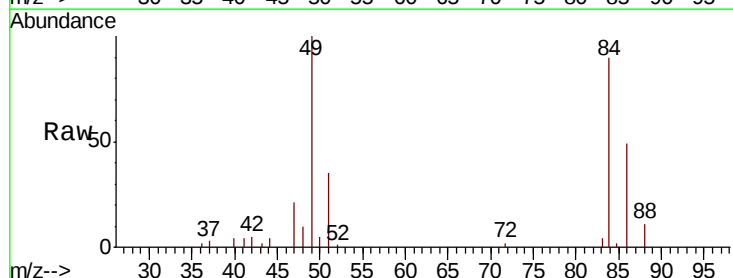
Tgt Ion: 84 Resp: 12977

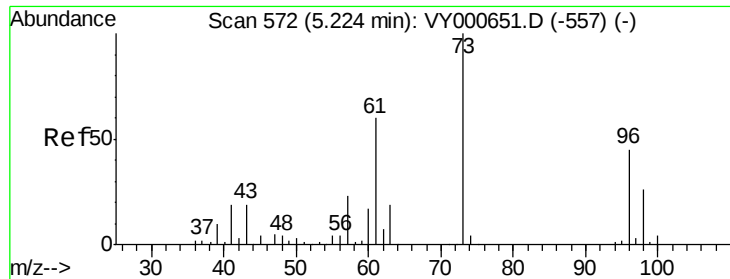
Ion Ratio Lower Upper

84 100

49 111.0 88.8 165.0

86 54.8 43.9 81.5





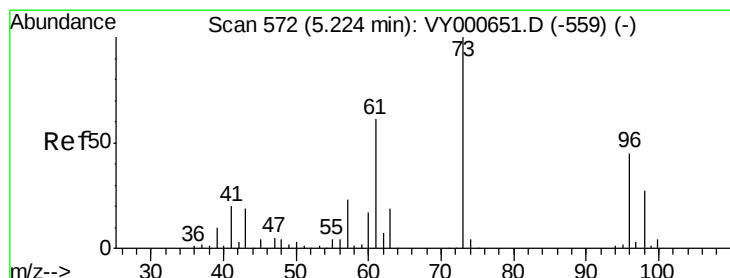
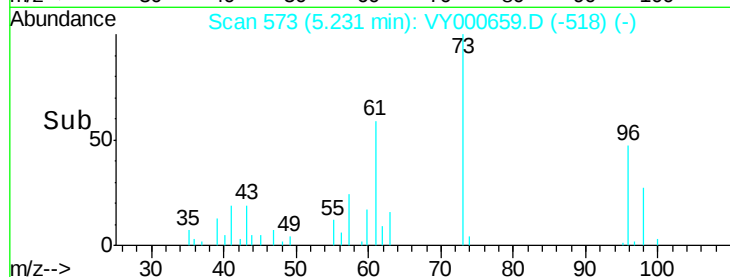
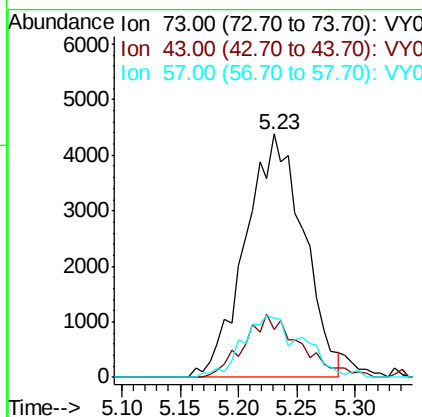
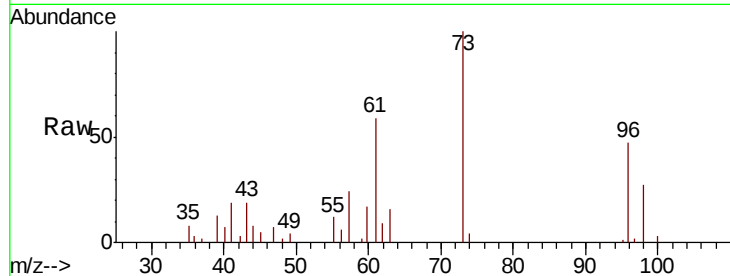
#17
Methvl tert-butvl Ether
Concen: 1.128 ug/L
RT: 5.23 min Scan# 573
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
73	100		
43	17.7	15.4	23.0
57	17.5	17.5	26.3

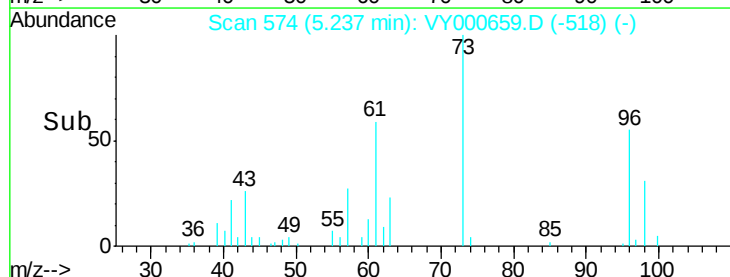
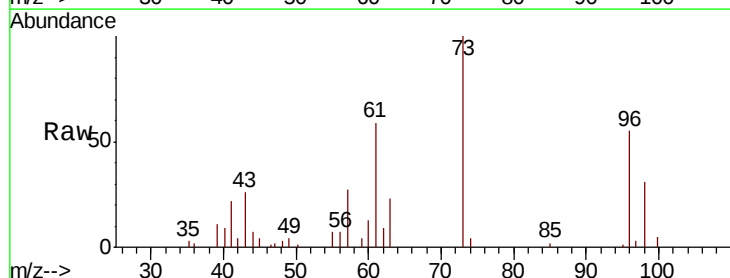
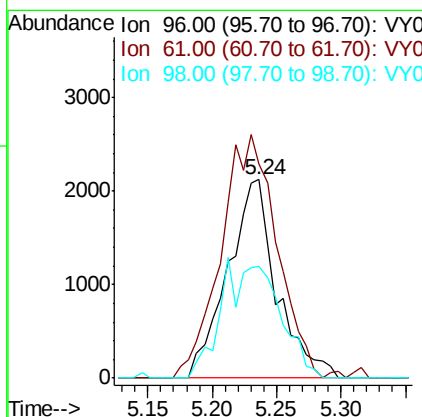
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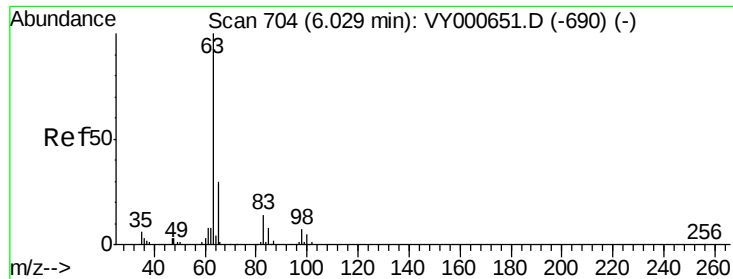
MMDadoda
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#18
trans-1,2-Dichloroethene
Concen: 1.132 ug/L
RT: 5.24 min Scan# 574
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	107.8	91.8	170.4
98	56.2	46.3	85.9





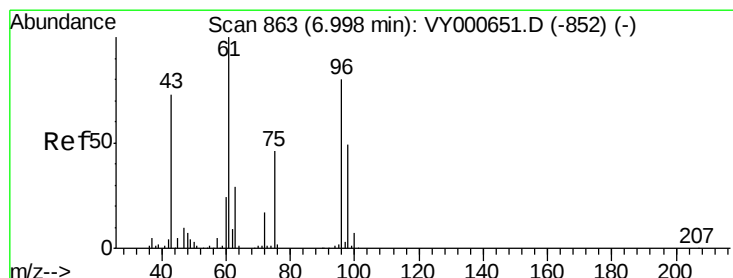
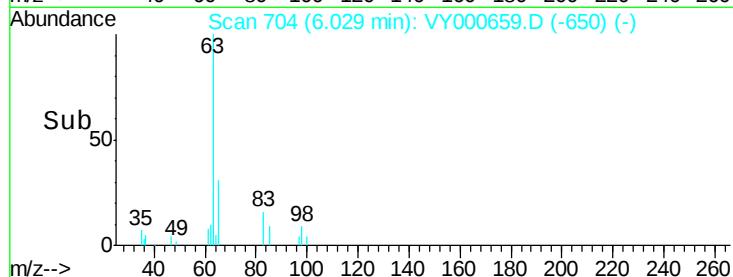
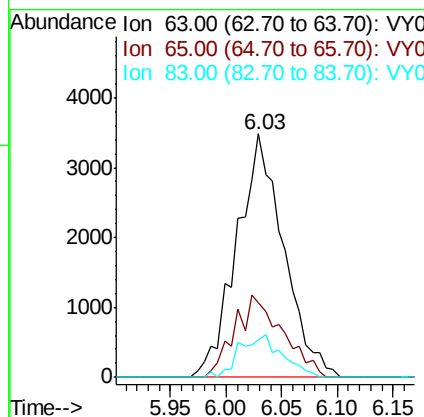
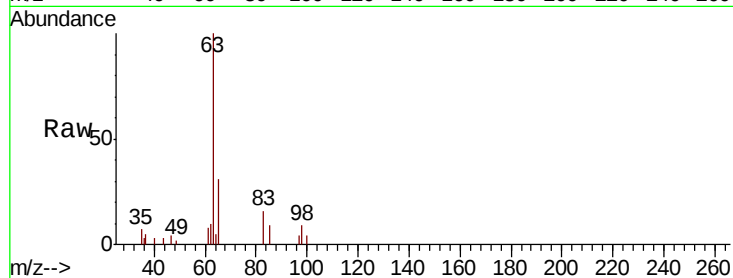
#19
 1,1-Dichloroethane
 Concen: 1.171 ug/L
 RT: 6.03 min Scan# 704
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	23.9	44.5
83	15.6	10.1	18.9

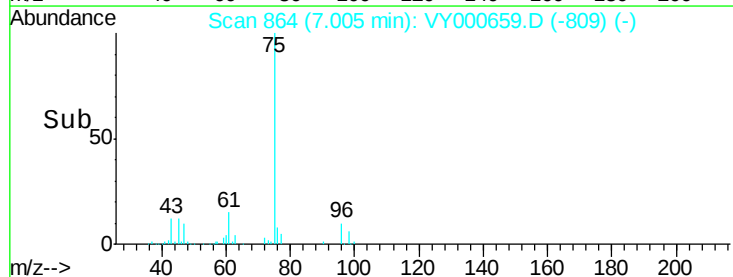
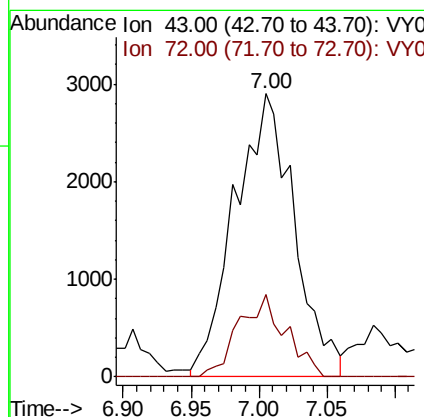
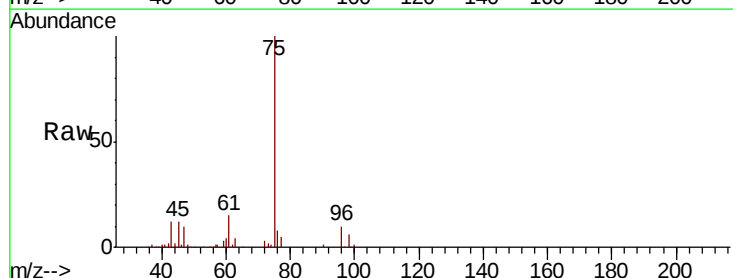
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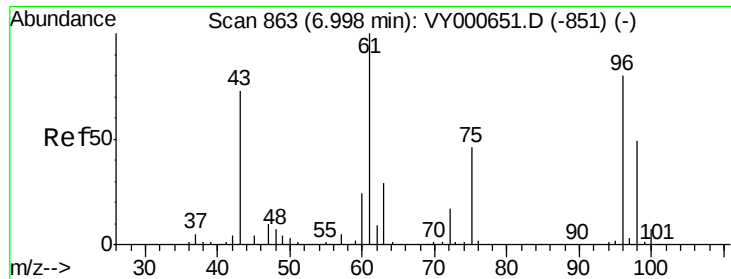
MMDadoda
 11/15/2019 3:07:21 PM



#21
 2-Butanone
 Concen: 3.442 ug/L
 RT: 7.00 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	3.0	12.6	37.8#





#22

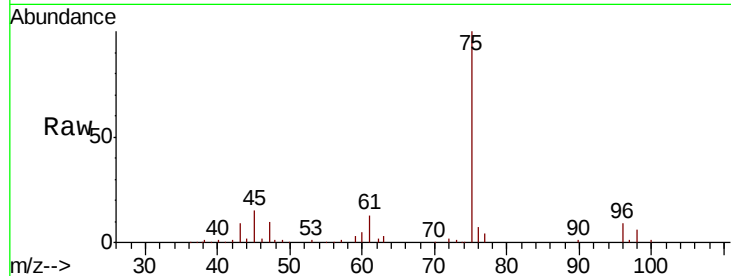
cis-1,2-Dichloroethene
Concen: 1.266 ug/L
RT: 6.99 min Scan# 862
Delta R.T. -0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.2	86.8	161.2
98	68.6	44.6	82.8

Manual Integrations
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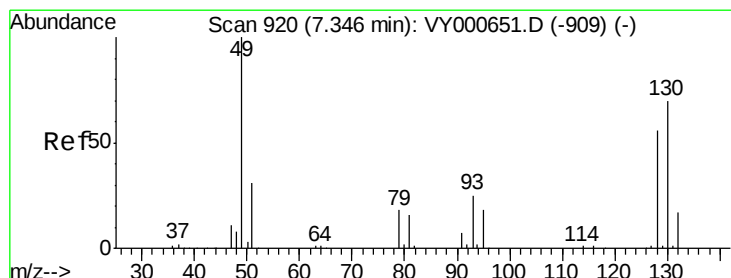
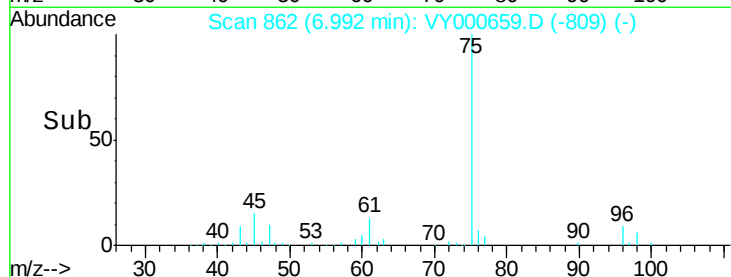
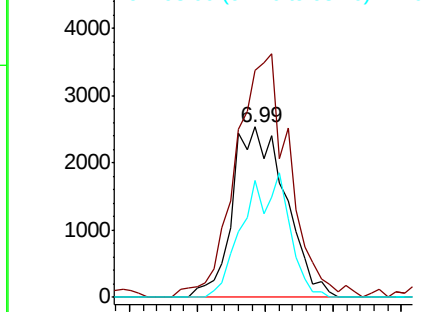


Abundance

Ion 96.00 (95.70 to 96.70): VY000659.D (-851) (-)

Ion 61.00 (60.70 to 61.70): VY000659.D (-851) (-)

Ion 98.00 (97.70 to 98.70): VY000659.D (-851) (-)



#23

Bromochloromethane
Concen: 1.359 ug/L m
RT: 7.36 min Scan# 922
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
128	100		
49	112.8	131.5	244.3#
130	122.2	96.7	179.5
51	35.1	45.3	67.9#

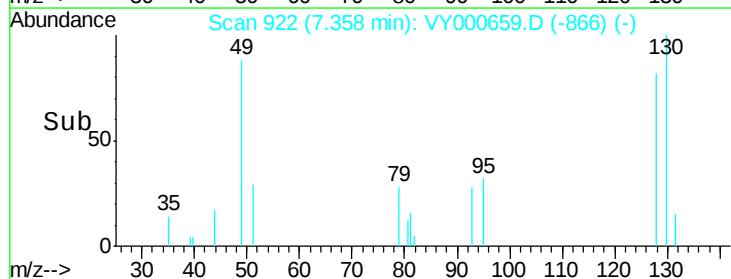
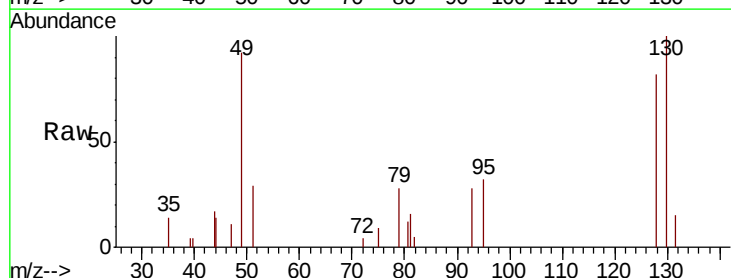
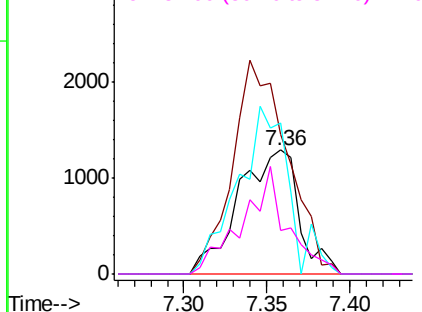
Abundance

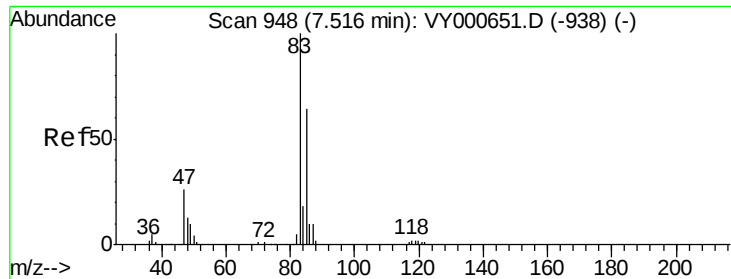
Ion 128.00 (127.70 to 128.70): VY000659.D (-909) (-)

Ion 49.00 (48.70 to 49.70): VY000659.D (-909) (-)

Ion 130.00 (129.70 to 130.70): VY000659.D (-909) (-)

Ion 51.00 (50.70 to 51.70): VY000659.D (-909) (-)





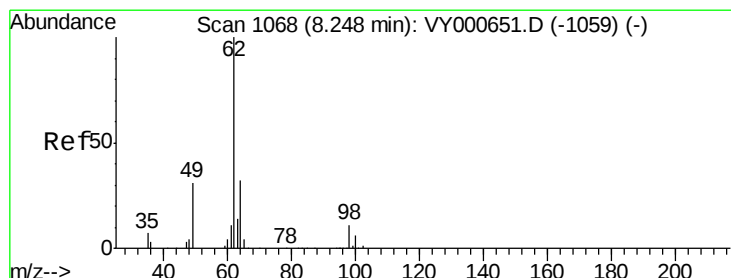
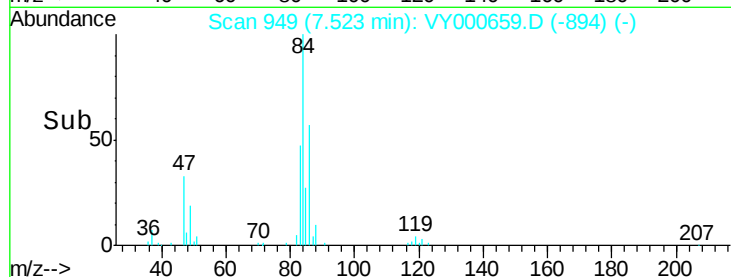
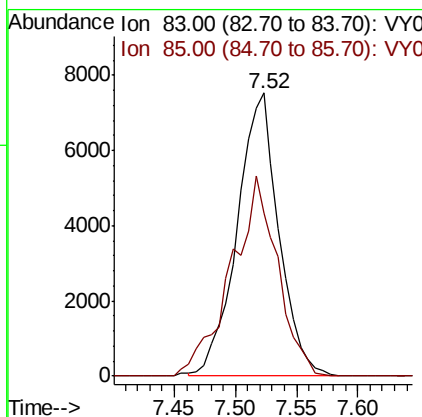
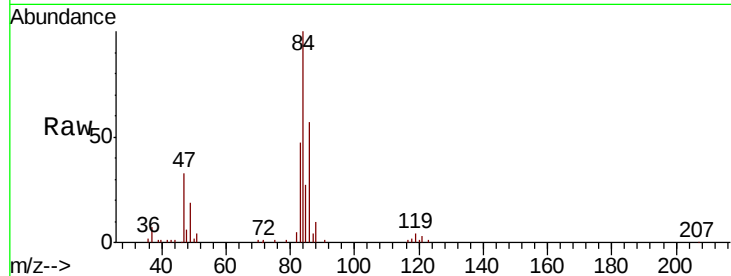
#25
Chloroform
Concen: 1.900 ug/L
RT: 7.52 min Scan# 949
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion	83	Resp	17857
Ion Ratio	100	Lower	Upper
85	78.1	45.6	84.6

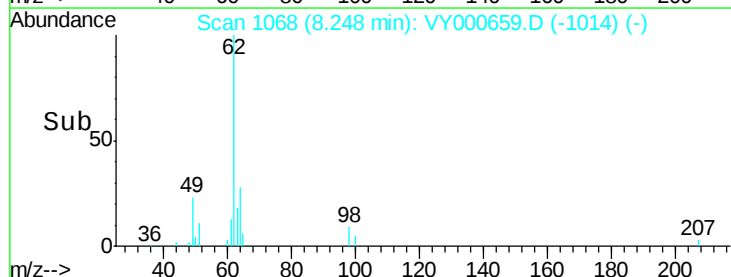
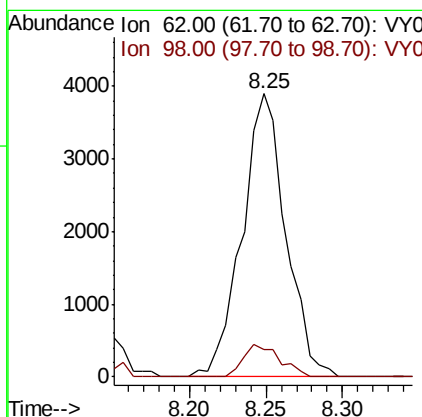
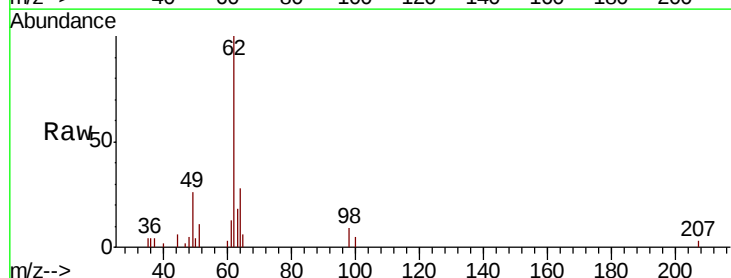
Manual Integrations
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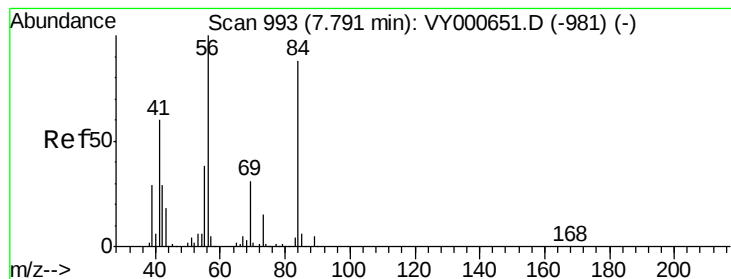
MMDadoda
11/15/2019 3:07:21 PM



#27
1,2-Dichloroethane
Concen: 1.232 ug/L
RT: 8.25 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	62	Resp	7742
Ion Ratio	100	Lower	Upper
98	9.5	7.5	11.3





#30

Cvclohexane

Concen: 1.107 ug/L

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

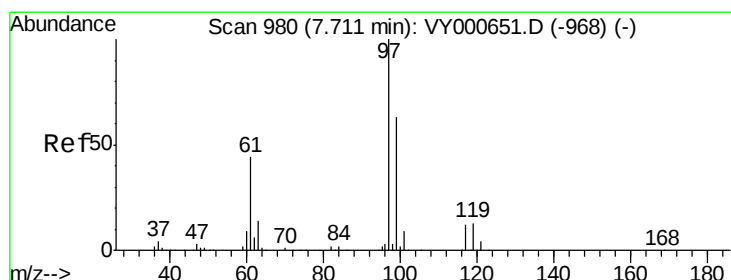
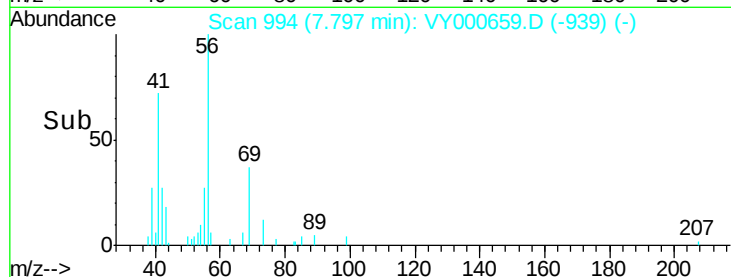
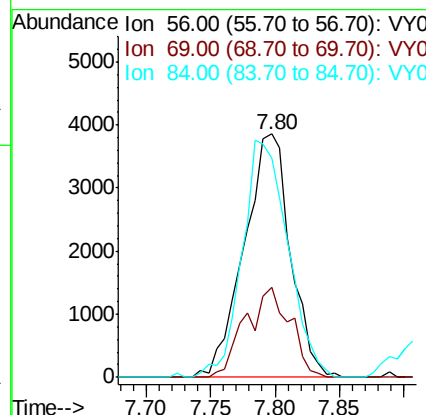
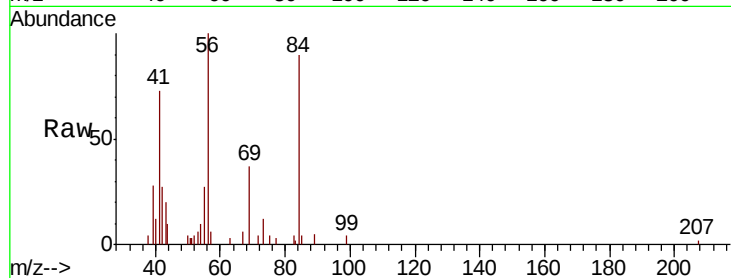
ClientSampleId :

MDL07

Tot Ion:	56	Resp:	9610
Ion	Ratio	Lower	Upper
56	100		
69	7.9	24.1	36.1#
84	14.6	70.2	105.4#

Manual Integrations
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#31

1,1,1-Trichloroethane

Concen: 1.116 ug/L m

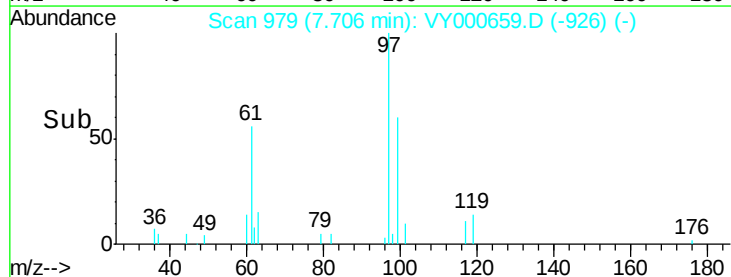
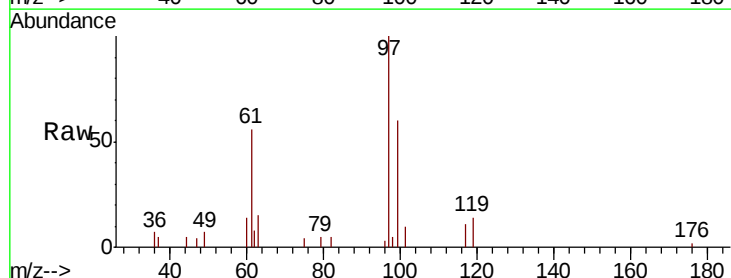
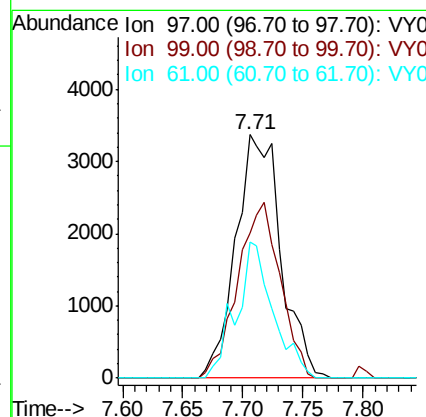
RT: 7.71 min Scan# 979

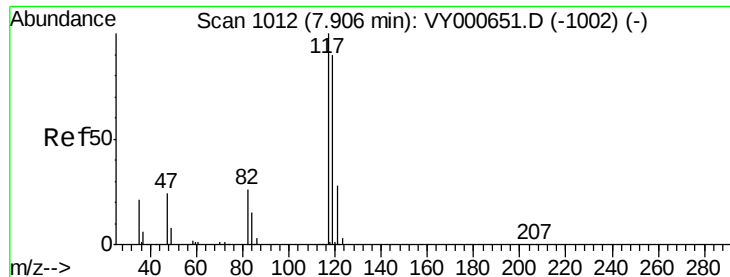
Delta R.T. -0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Tgt Ion:	97	Resp:	8747
Ion	Ratio	Lower	Upper
97	100		
99	68.1	51.4	77.0
61	36.8	34.7	52.1





#32

Carbon tetrachloride

Concen: 1.177 ug/L

RT: 7.91 min Scan# 1013

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion:117 Resp: 8045

Ion Ratio Lower Upper

117 100

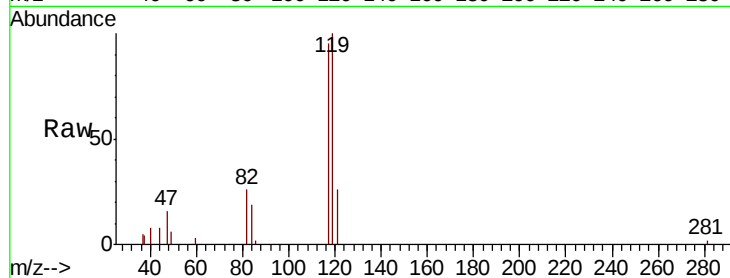
119 93.0 76.2 114.2

Manual Integrations

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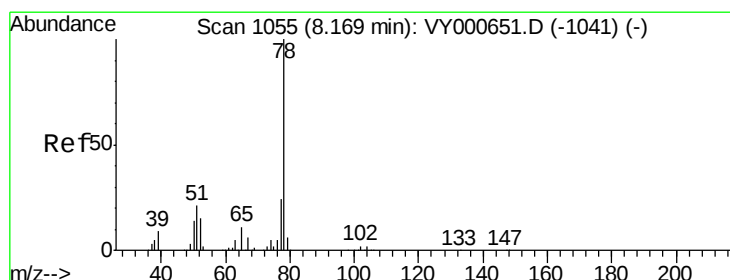
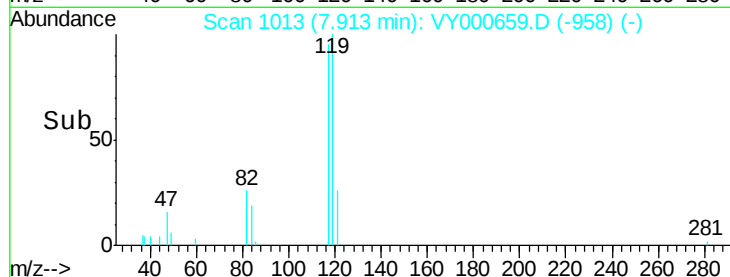
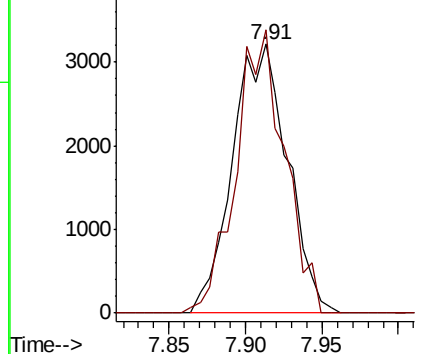
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 1.118 ug/L

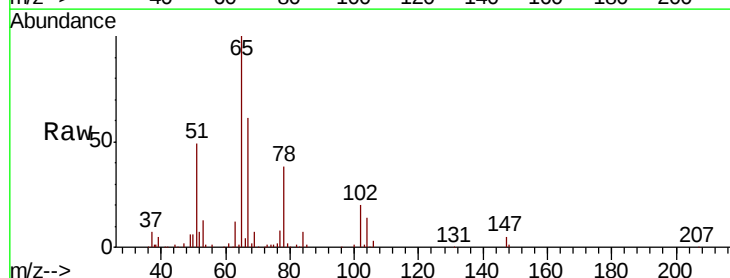
RT: 8.17 min Scan# 1055

Delta R.T. 0.00 min

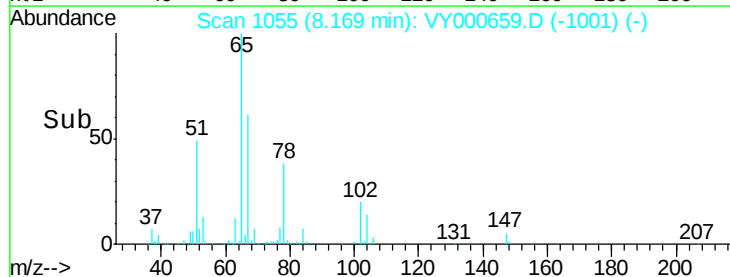
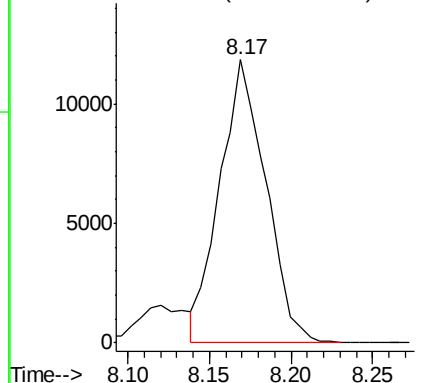
Lab File: VY000659.D

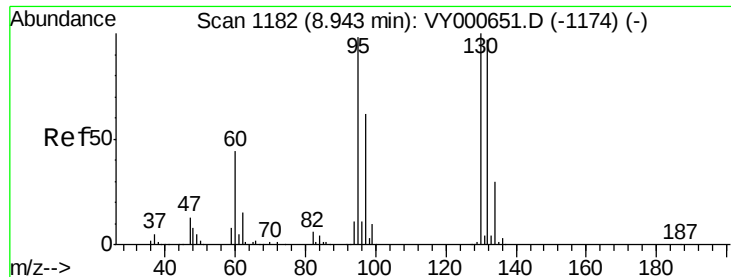
Acq: 12 Nov 2019 16:23

Tgt Ion: 78 Resp: 23266



Abundance Ion 78.00 (77.70 to 78.70): VY0





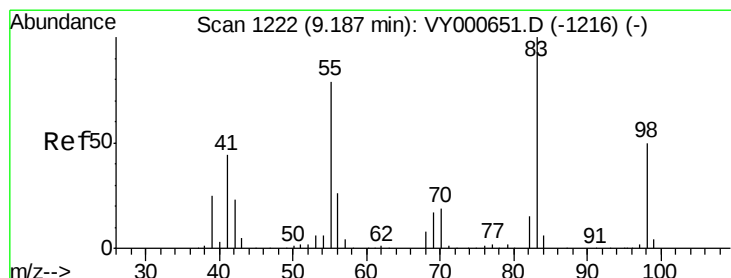
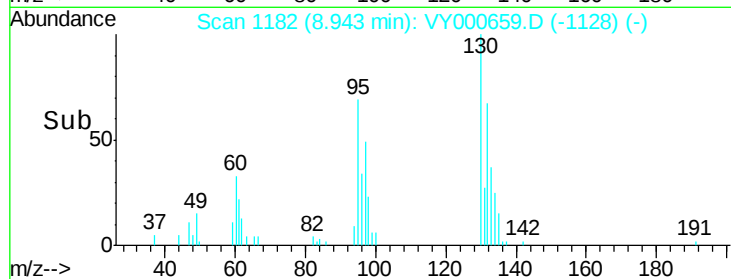
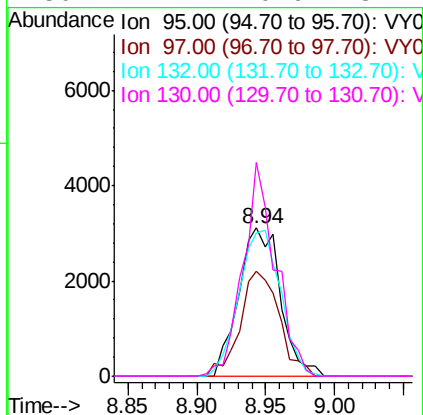
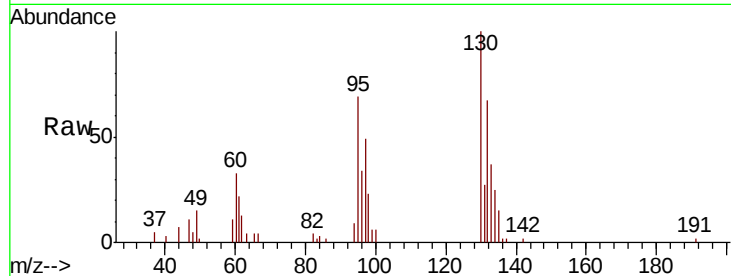
#35
 Trichloroethene
 Concen: 1.201 ug/L m
 RT: 8.94 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
95	100		
97	65.2	44.4	82.4
132	98.2	66.8	124.0
130	112.7	70.9	131.7

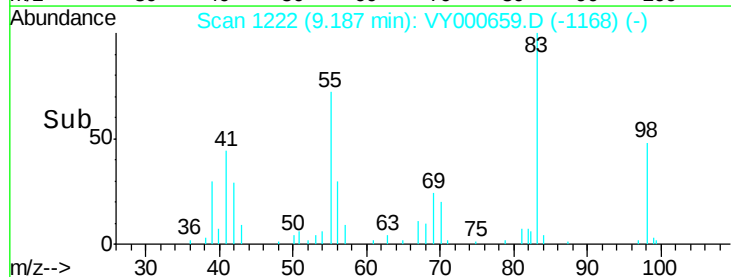
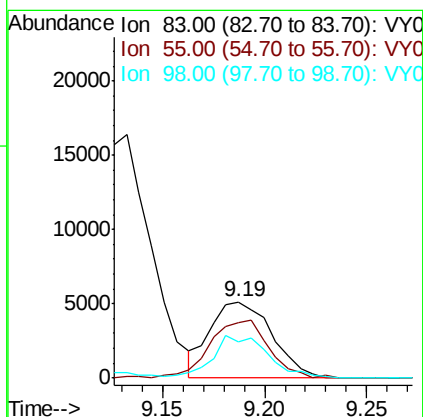
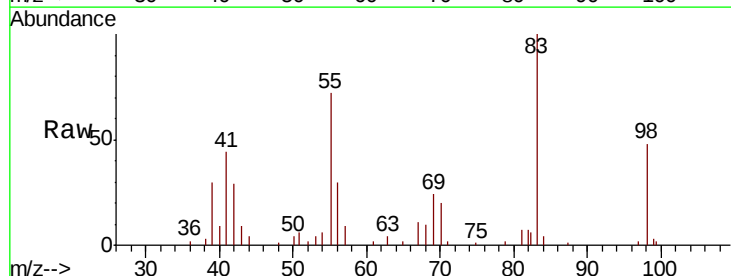
Manual Integrations
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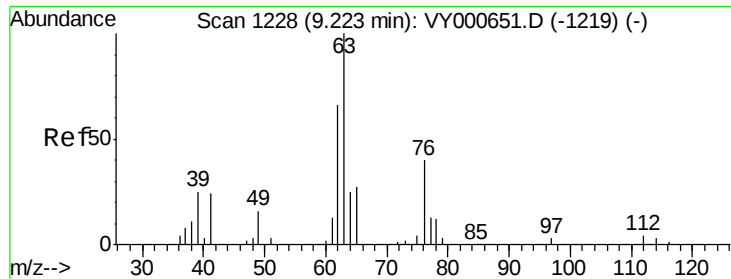
MMDadoda
 11/15/2019 3:07:21 PM



#36
 Methylcyclohexane
 Concen: 1.159 ug/L
 RT: 9.19 min Scan# 1222
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.5	60.0	90.0
98	50.5	40.2	60.2





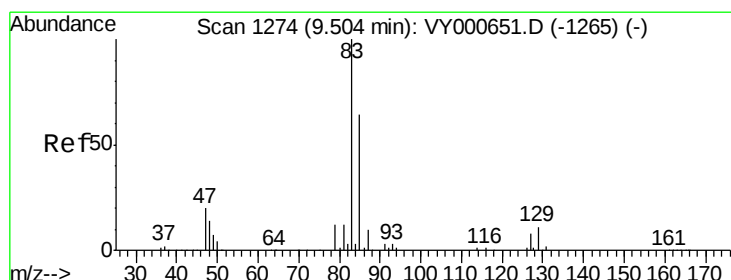
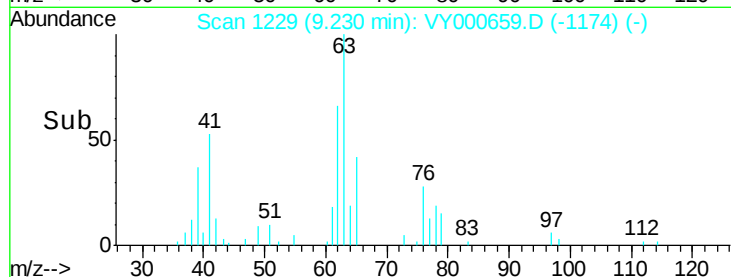
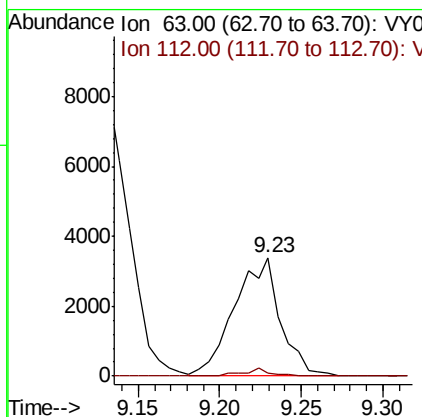
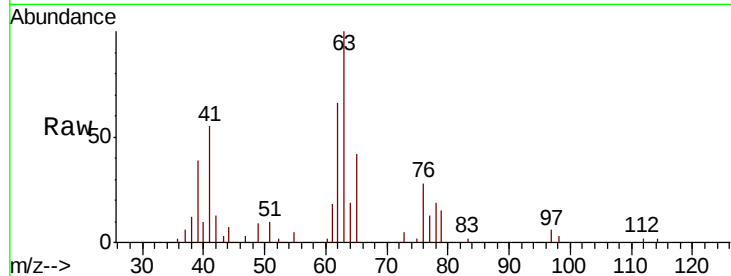
#40
 1,2-Dichloropropane
 Concen: 1.268 ug/L
 RT: 9.23 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion: 63 Resp: 6683
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.2 4.8#

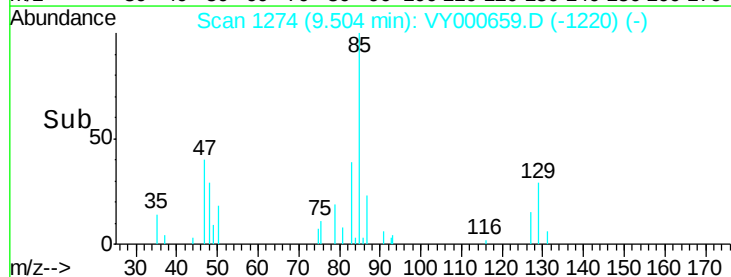
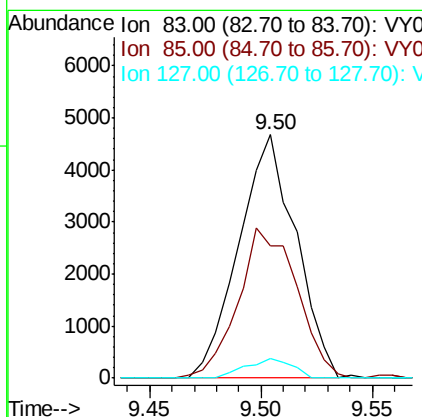
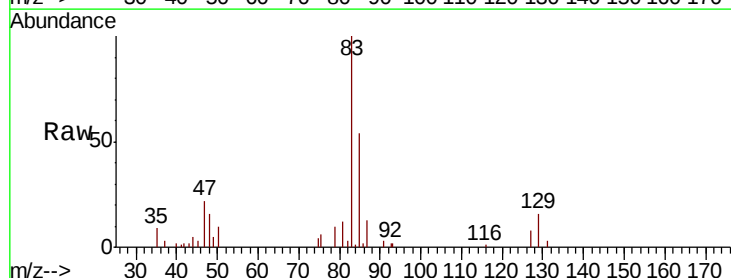
Manual Integrations
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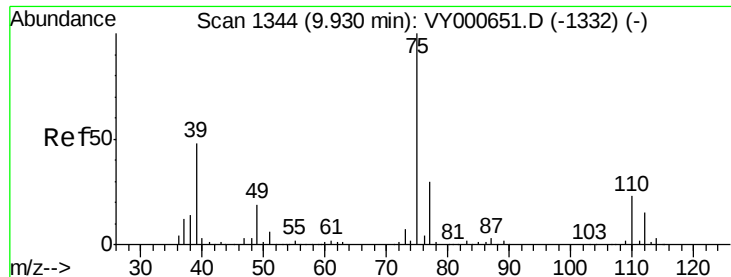
MMDadoda
 11/15/2019 3:07:21 PM



#41
 Bromodichloromethane
 Concen: 1.227 ug/L
 RT: 9.50 min Scan# 1274
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion: 83 Resp: 8326
 Ion Ratio Lower Upper
 83 100
 85 54.2 46.1 85.5
 127 8.2 6.5 9.7





#42

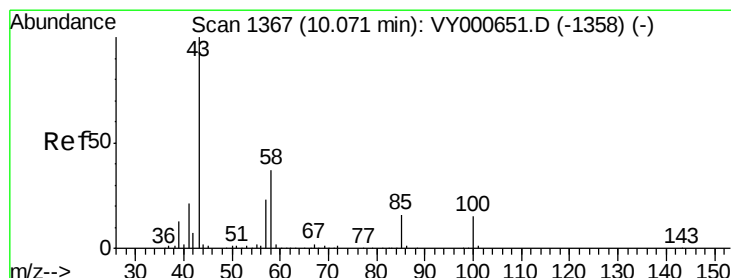
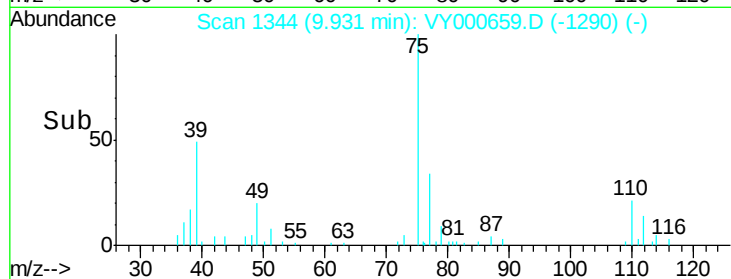
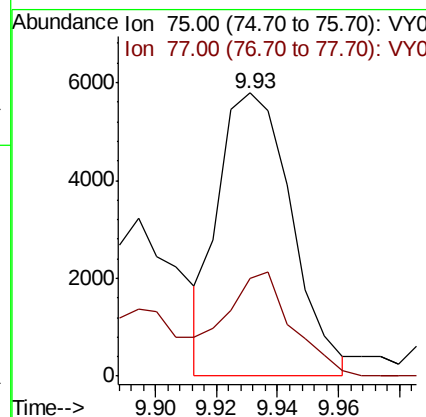
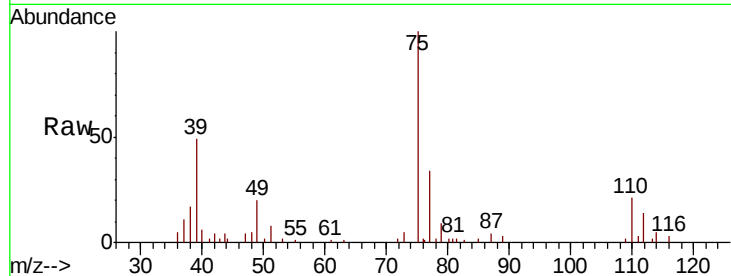
cis-1,3-Dichloropropene
Concen: 1.133 ug/L m
RT: 9.93 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.4	21.7	40.3

Manual Integrations
APPROVED

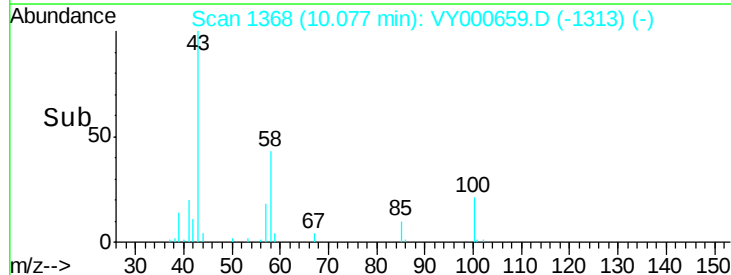
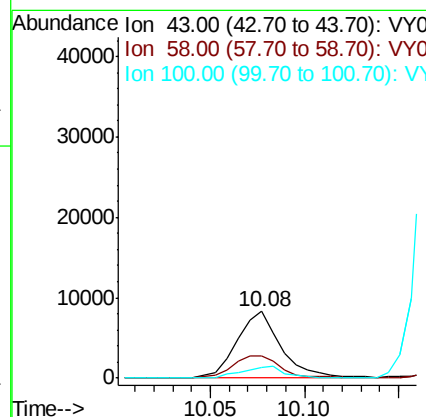
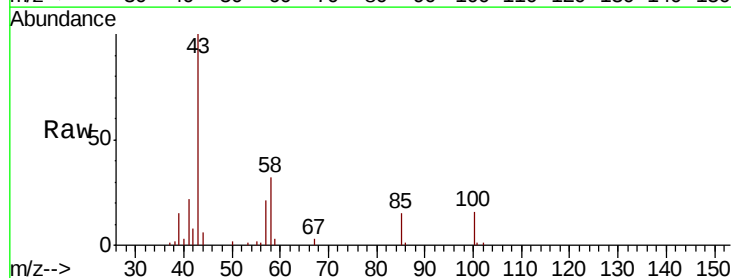
MMDadoda
11/15/2019 3:07:21 PM

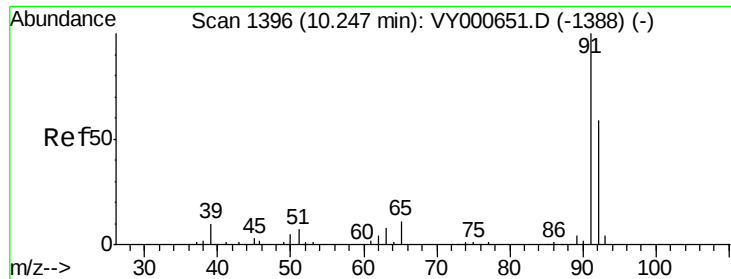


#43

4-Methyl-2-pentanone
Concen: 2.681 ug/L
RT: 10.08 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.3	30.6	45.8
100	16.8	12.0	18.0





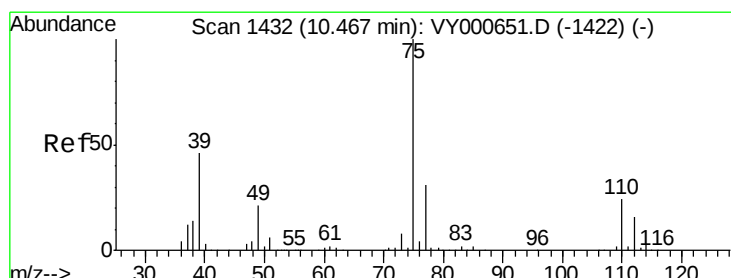
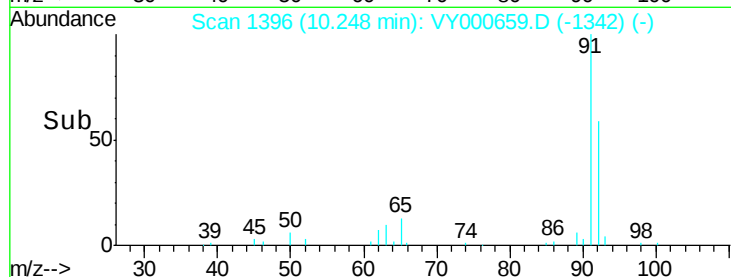
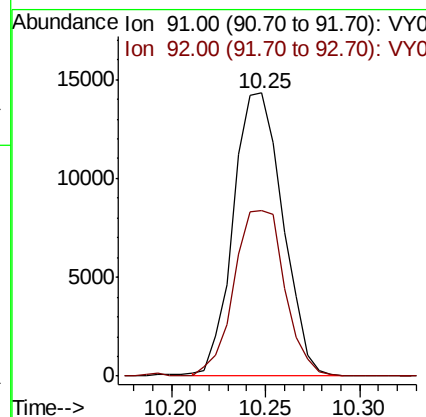
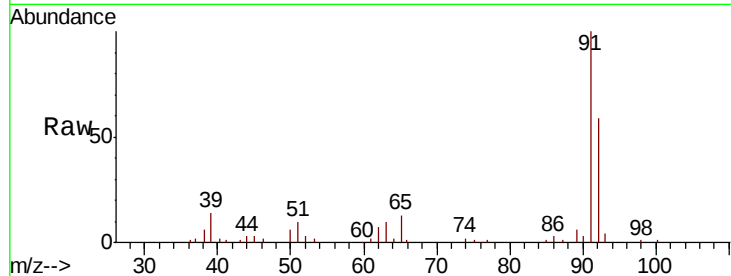
#44
Toluene
Concen: 1.159 ug/L
RT: 10.25 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion: 91 Resp: 26066
Ion Ratio Lower Upper
91 100
92 58.7 39.5 73.4

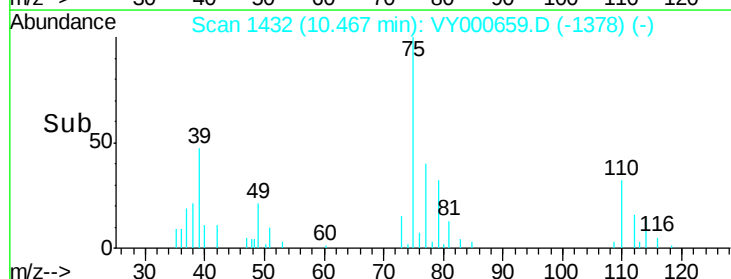
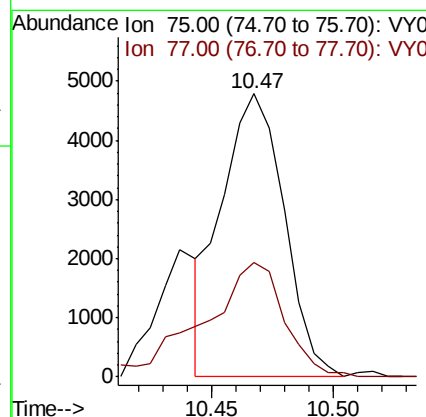
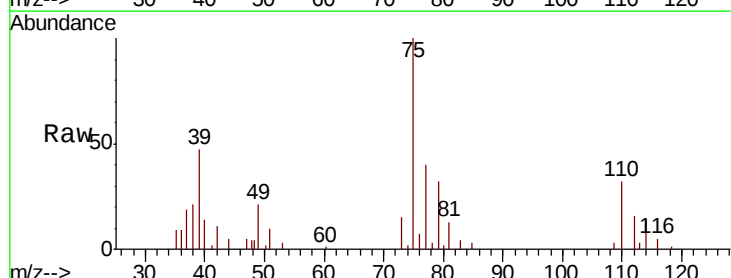
Manual Integrations
APPROVED

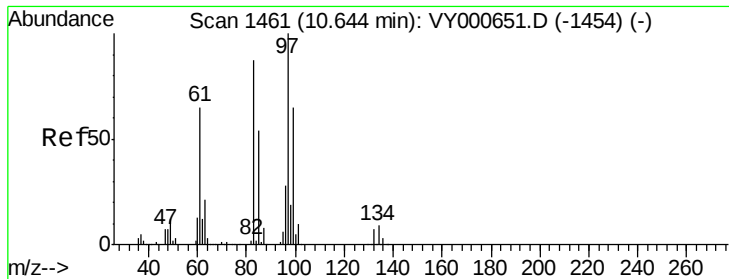
MMDadoda
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#45
trans-1,3-Dichloropropene
Concen: 1.167 ug/L m
RT: 10.47 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion: 75 Resp: 8515
Ion Ratio Lower Upper
75 100
77 40.2 20.4 37.8#





#46

1,1,2-Trichloroethane

Concen: 1.297 ug/L

RT: 10.65 min Scan# 1462

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

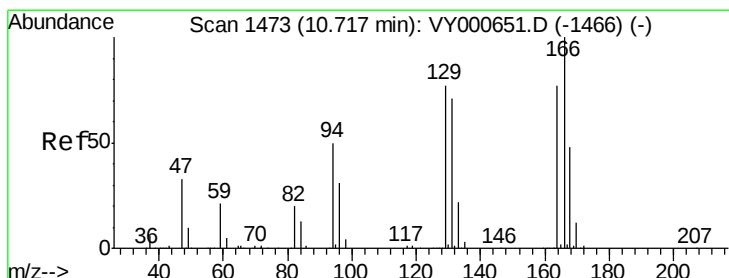
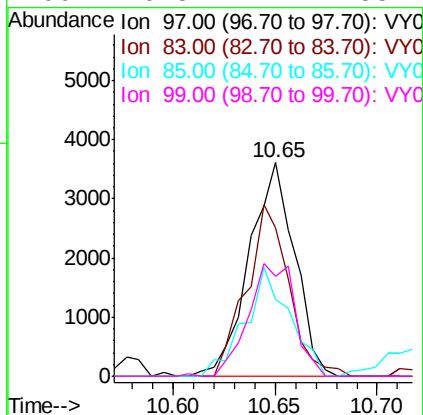
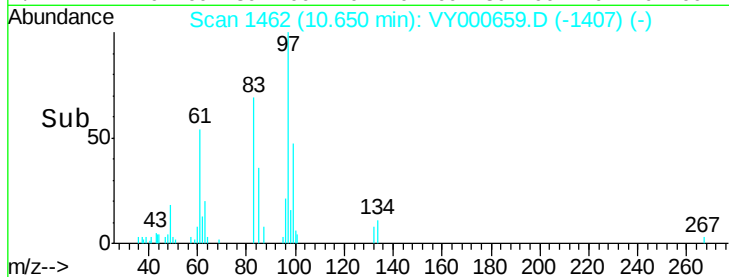
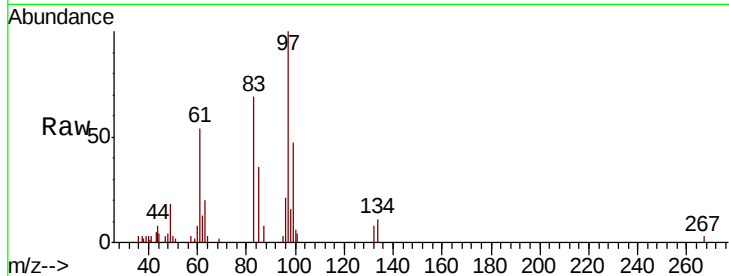
ClientSampleId :

MDL07

Tot Ion:	97	Resp:	5611
Ion	Ratio	Lower	Upper
97	100		
83	69.4	58.7	109.1
85	36.0	37.3	69.3#
99	46.8	44.7	83.1

Manual Integrations
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#47

Tetrachloroethene

Concen: 1.159 ug/L

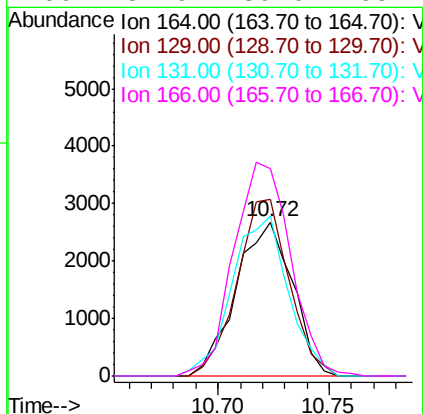
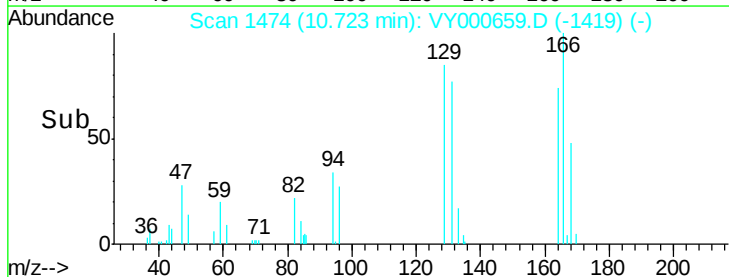
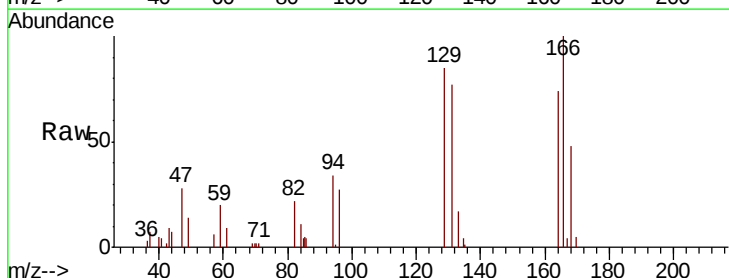
RT: 10.72 min Scan# 1474

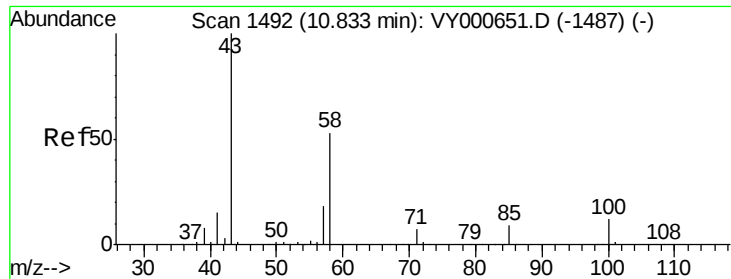
Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Tgt Ion:	164	Resp:	4723
Ion	Ratio	Lower	Upper
164	100		
129	114.7	69.6	129.2
131	104.4	66.8	124.2
166	134.9	89.0	165.2





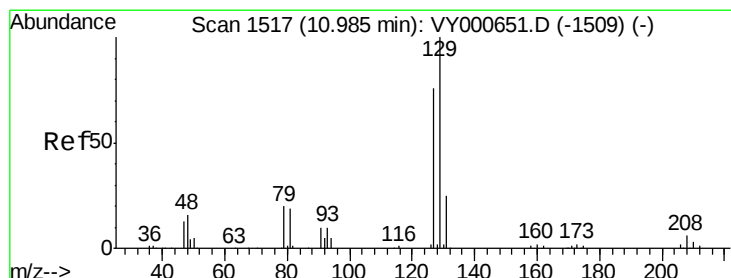
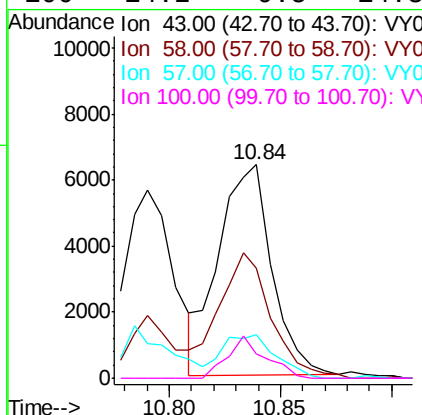
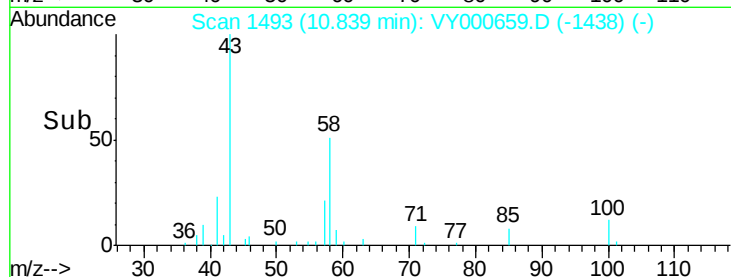
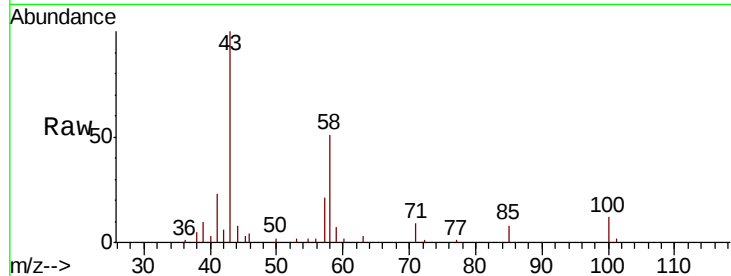
#49
2-Hexanone
Concen: 2.703 ug/L
RT: 10.84 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	61.0	44.1	66.1
57	21.0	13.9	20.9
100	14.2	9.5	14.3

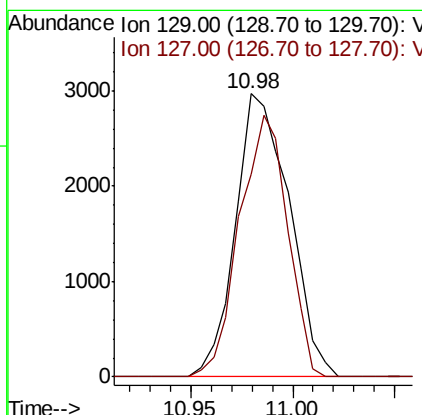
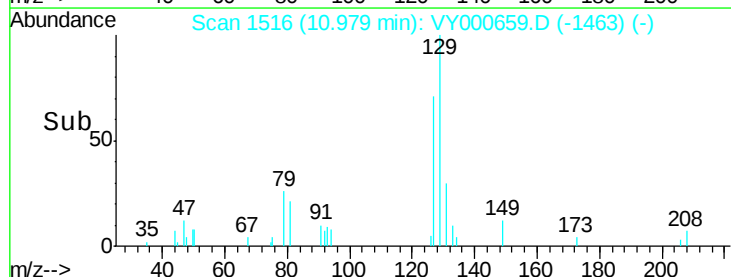
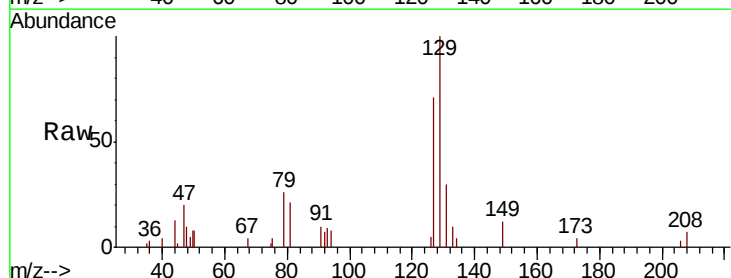
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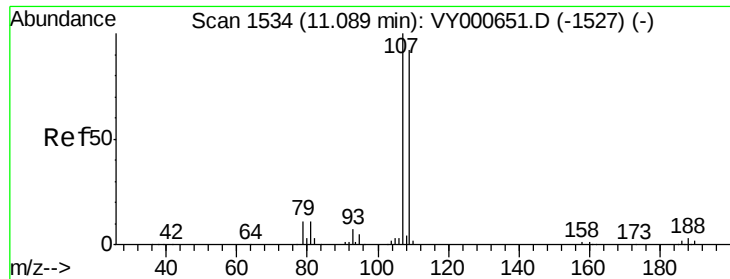
MMDadoda
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#50
Dibromochloromethane
Concen: 1.111 ug/L
RT: 10.98 min Scan# 1516
Delta R.T. -0.01 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.5	57.9	107.5





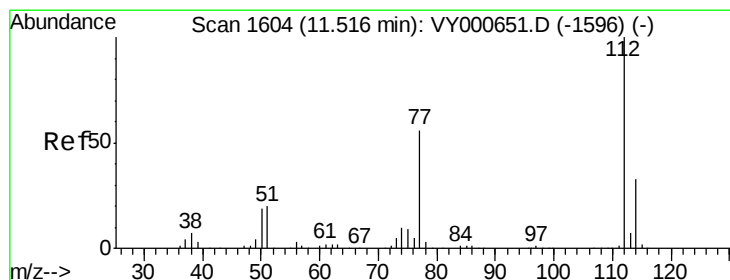
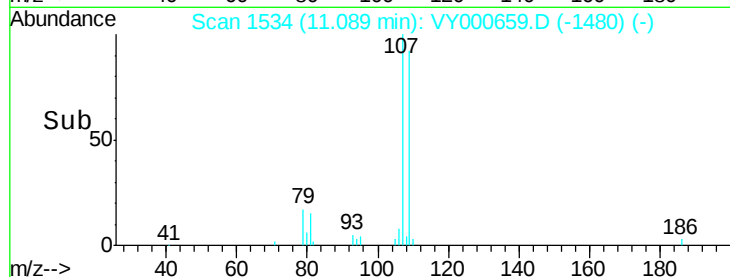
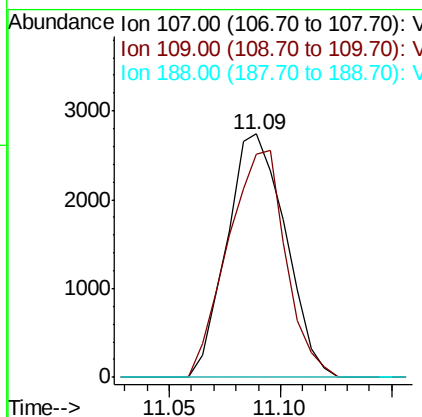
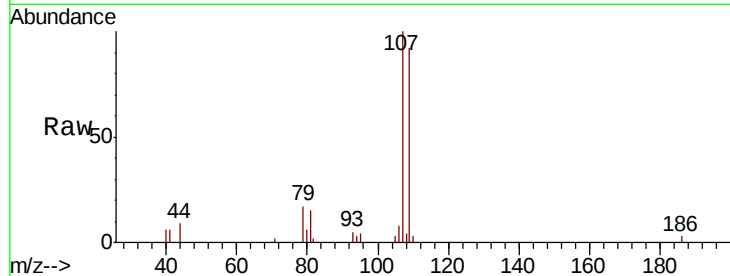
#51
 1,2-Dibromoethane
 Concen: 1.195 ug/L
 RT: 11.09 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.9	65.5	121.6
188	0.0	2.7	4.1#

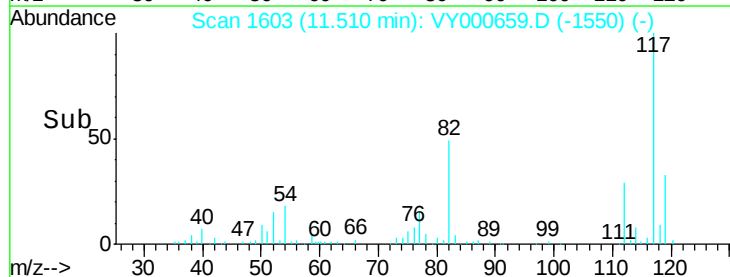
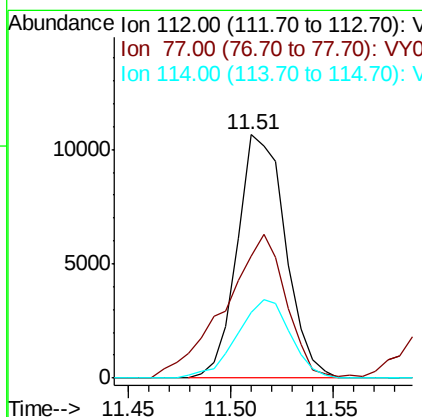
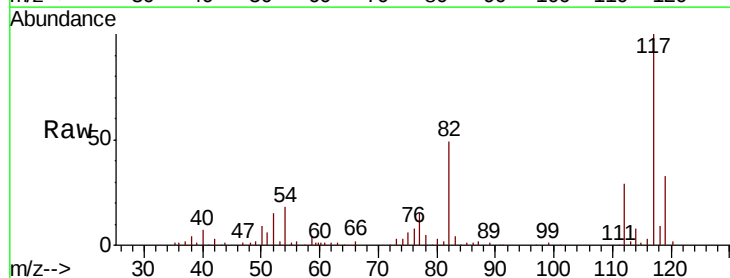
Manual Integrations
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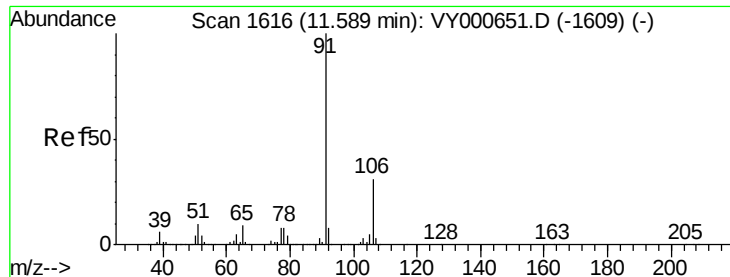
MMDadoda
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#52
 Chlorobenzene
 Concen: 1.222 ug/L
 RT: 11.51 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
112	100		
77	50.1	47.4	71.0
114	27.1	23.0	42.6





#53

Ethylbenzene

Concen: 1.122 ug/L

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 28561

Ion Ratio Lower Upper

91 100

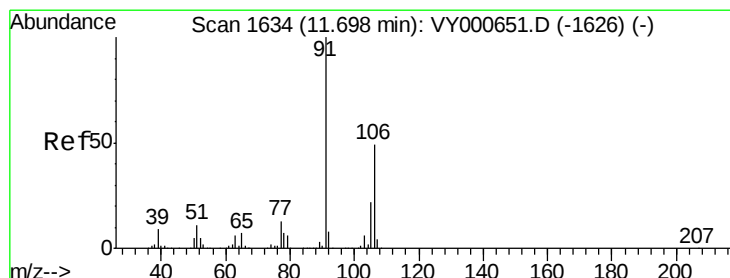
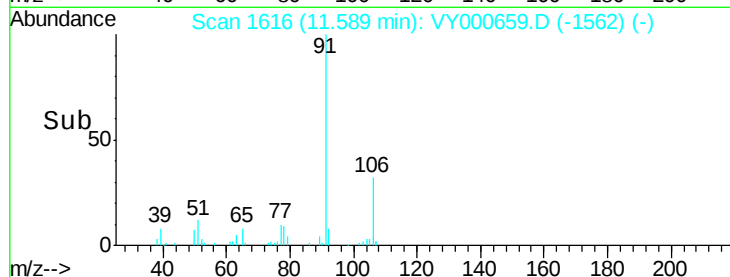
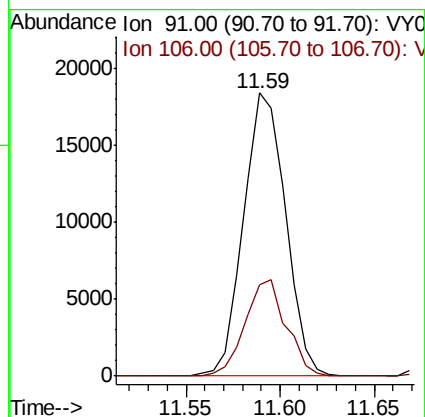
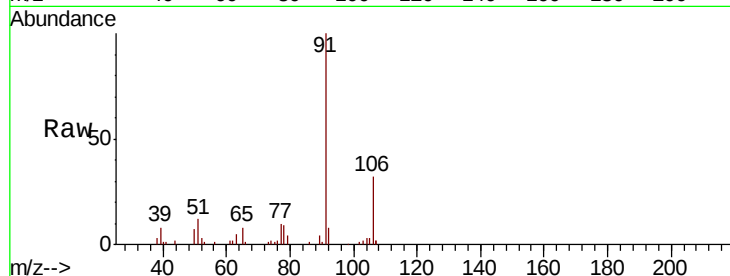
106 32.3 20.9 38.7

Manual Integrations

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#54

m,p-Xylene

Concen: 1.133 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY000659.D

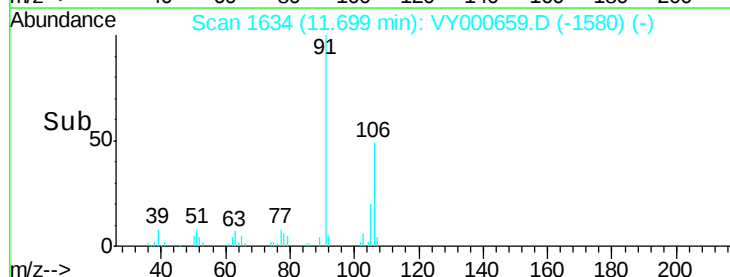
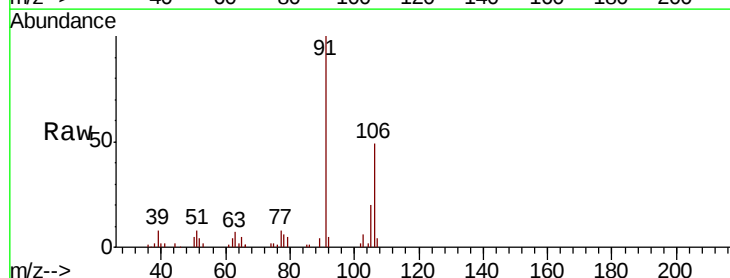
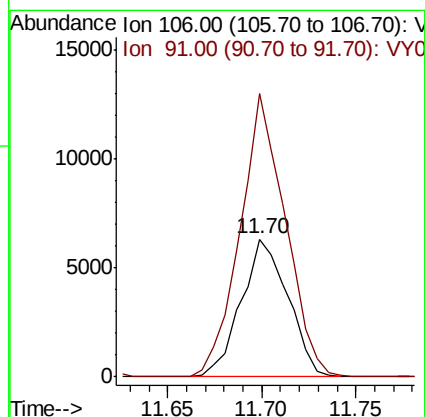
Acq: 12 Nov 2019 16:23

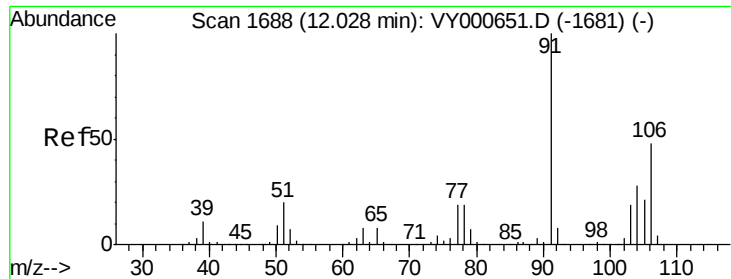
Tgt Ion: 106 Resp: 10907

Ion Ratio Lower Upper

106 100

91 205.7 137.4 255.2





#55

o-xylene

Concen: 1.062 ug/L

RT: 12.03 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

ClientSampleId :

MDL07

Tot Ion:106 Resp: 10038

Ion Ratio Lower Upper

106 100

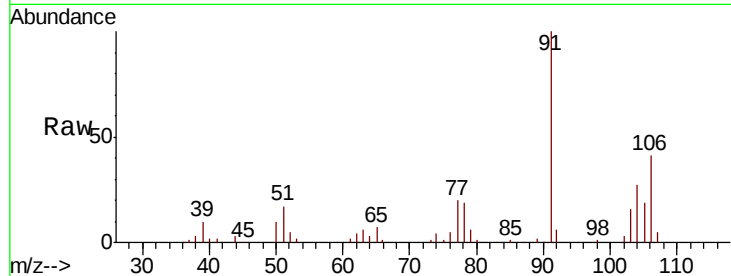
91 243.1 147.8 274.6

Manual Integrations

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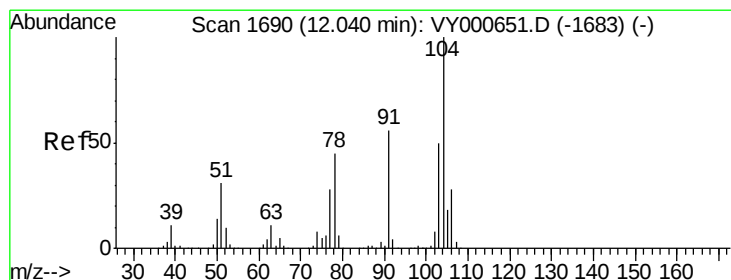
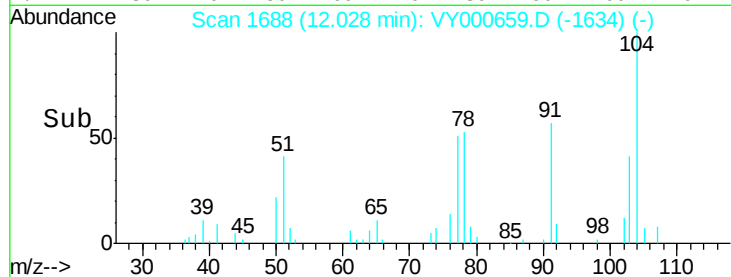
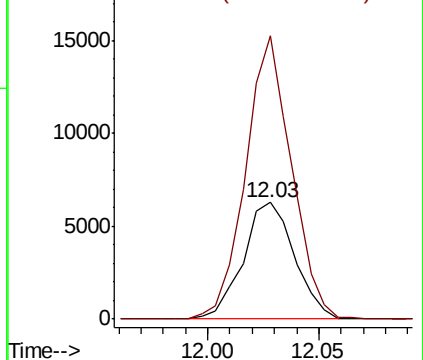
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#56

Styrene

Concen: 1.068 ug/L

RT: 12.05 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VY000659.D

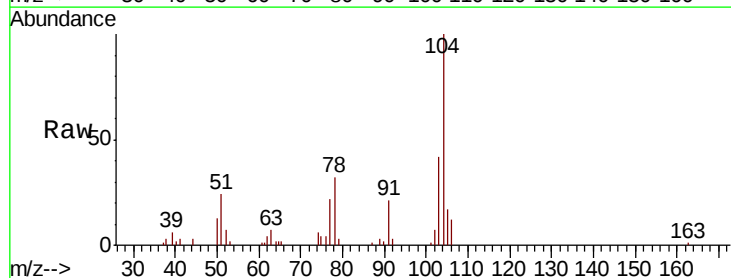
Acq: 12 Nov 2019 16:23

Tgt Ion:104 Resp: 16776

Ion Ratio Lower Upper

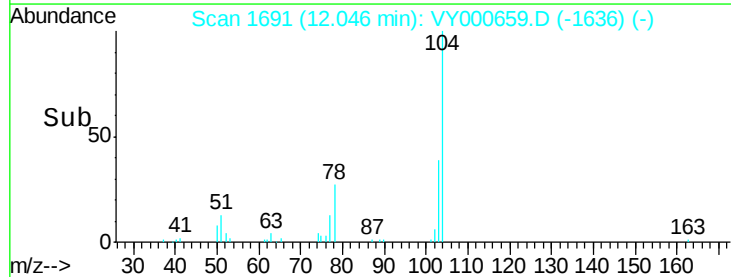
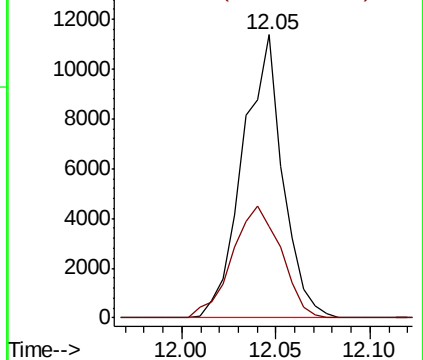
104 100

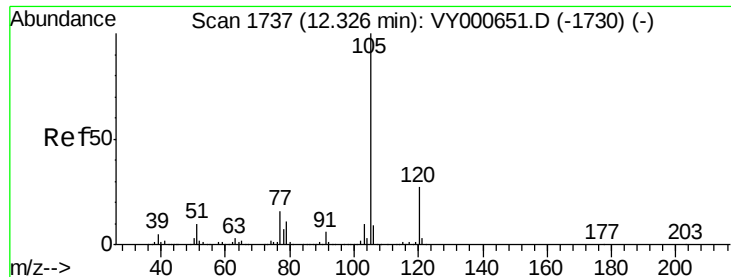
78 32.5 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0





#57

Isopropylbenzene

Concen: 1.091 ug/L

RT: 12.33 min Scan# 1738

Delta R.T. 0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

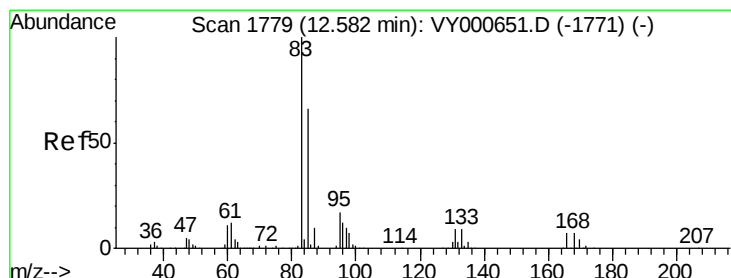
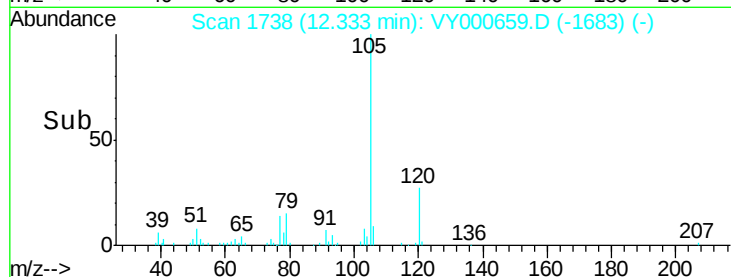
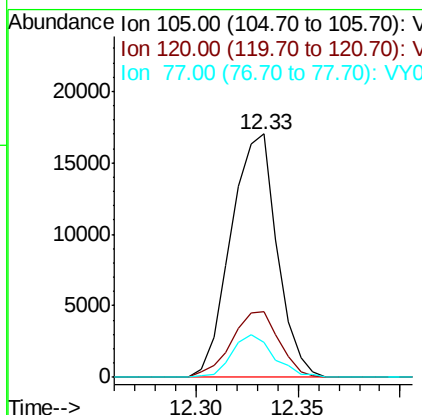
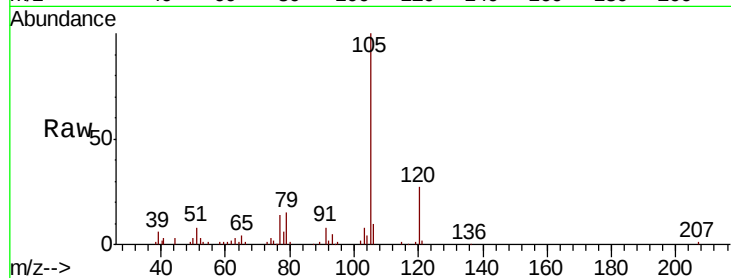
ClientSampleId :

MDL07

Tot Ion:	105	Resp:	26816
Ion Ratio	Lower	Upper	
105	100		
120	27.7	21.5	32.3
77	16.1	12.6	19.0

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.234 ug/L

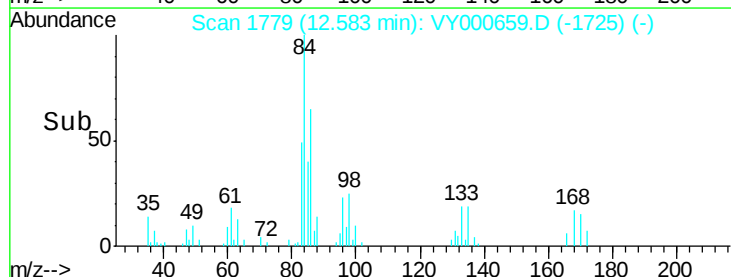
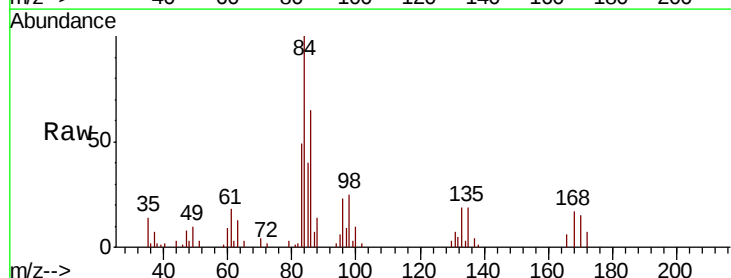
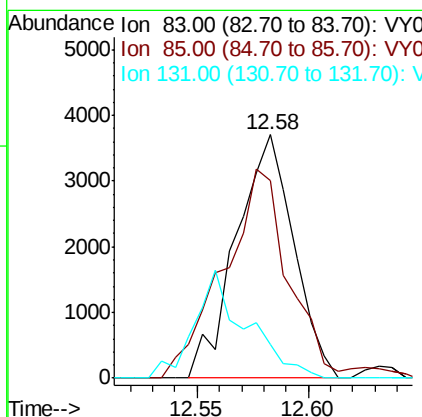
RT: 12.58 min Scan# 1779

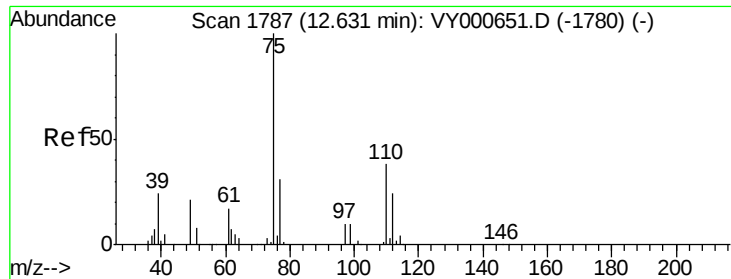
Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Tgt Ion:	83	Resp:	6658
Ion Ratio	Lower	Upper	
83	100		
85	81.0	45.0	83.6
131	13.8	7.8	11.6#





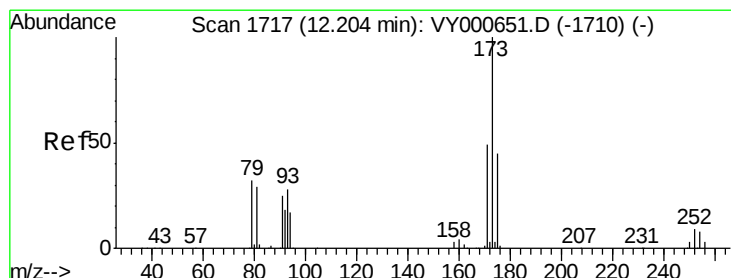
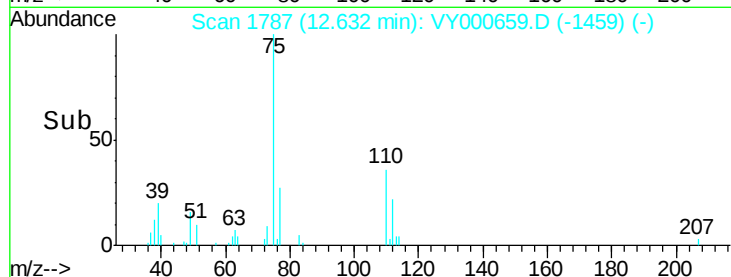
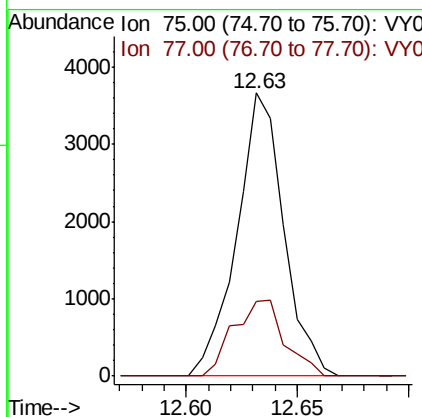
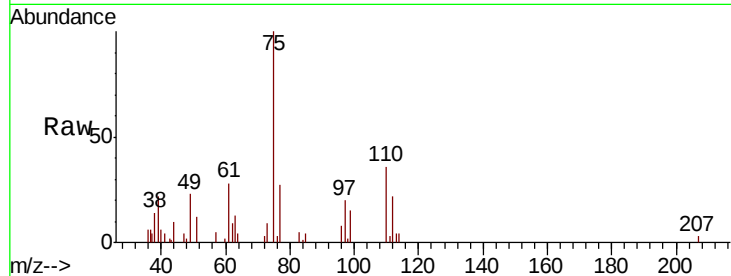
#59
 1,2,3-Trichloropropane
 Concen: 1.229 ug/L
 RT: 12.63 min Scan# 1787
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 5391
 Ion Ratio Lower Upper
 75 100
 77 29.2 26.4 39.6

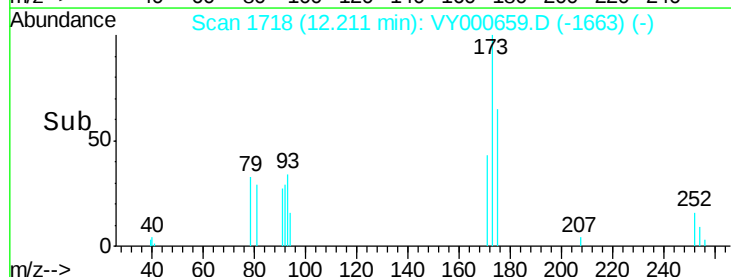
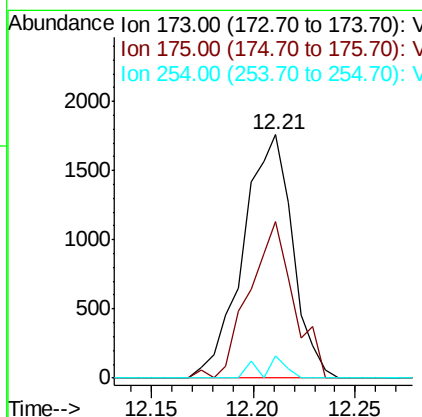
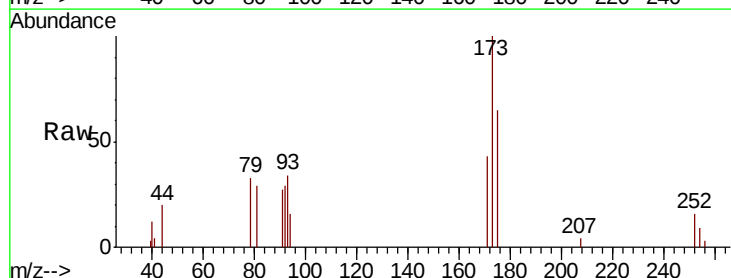
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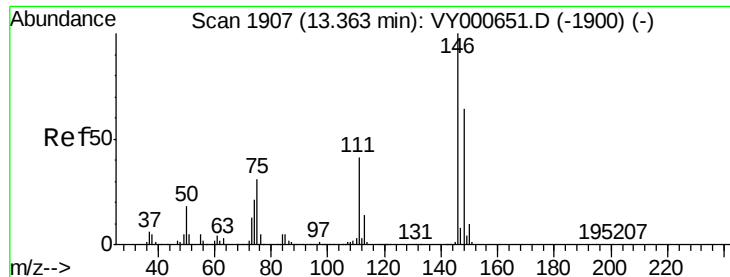
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#62
 Bromoform
 Concen: 1.033 ug/L
 RT: 12.21 min Scan# 1718
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion: 173 Resp: 2970
 Ion Ratio Lower Upper
 173 100
 175 57.1 37.8 56.6#
 254 2.8 7.7 11.5#





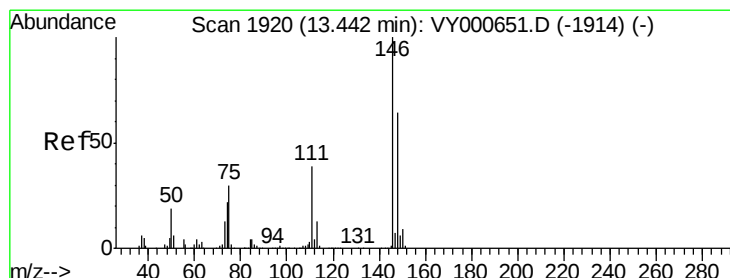
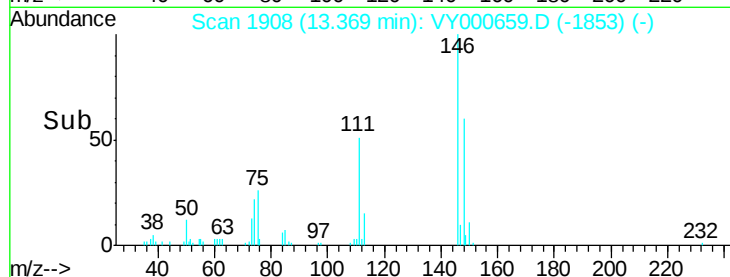
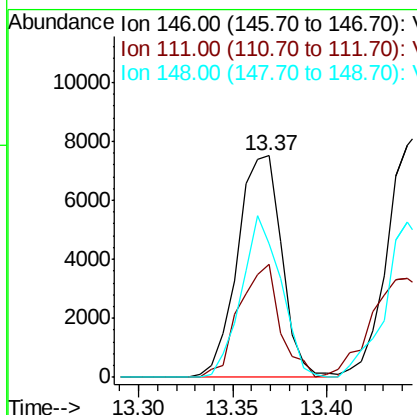
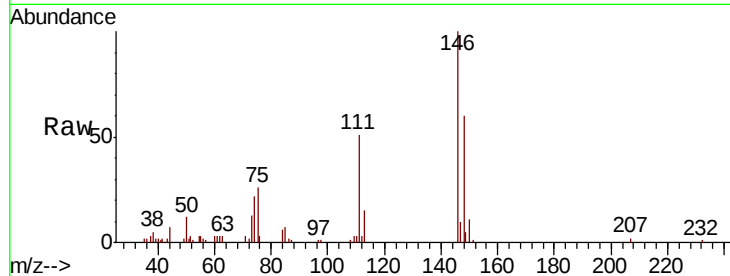
#63
 1,3-Dichlorobenzene
 Concen: 1.139 ug/L
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.1	28.8	53.6
148	60.2	44.3	82.3

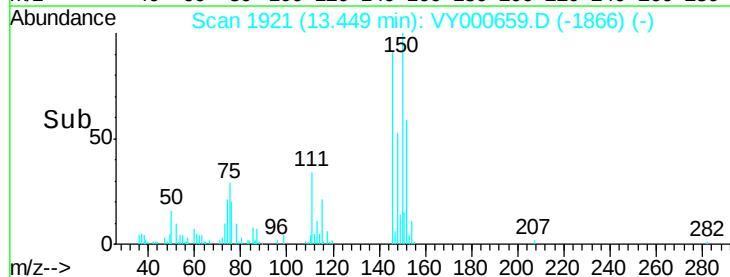
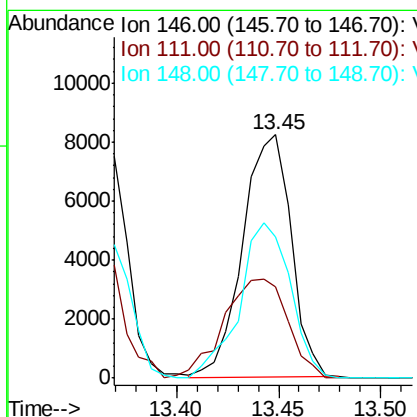
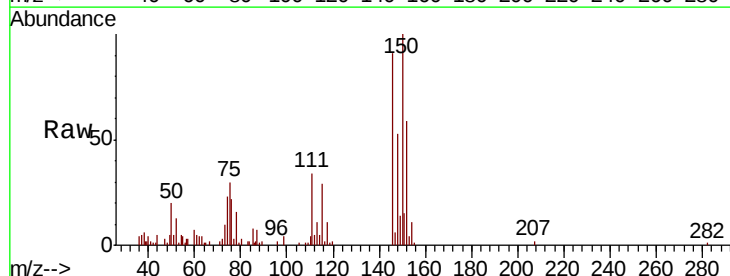
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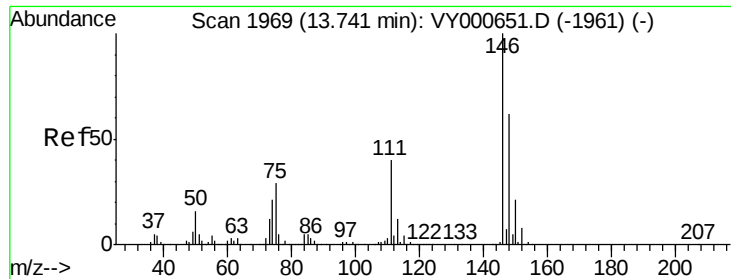
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#64
 1,4-Dichlorobenzene
 Concen: 1.252 ug/L
 RT: 13.45 min Scan# 1921
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	26.7	49.5
148	58.2	45.2	84.0





#65

1,2-Dichlorobenzene

Concen: 1.231 ug/L

RT: 13.74 min Scan# 1968

Delta R.T. -0.01 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Instrument :

MSVOA_Y

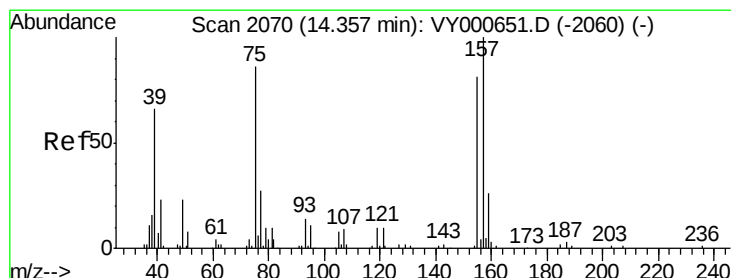
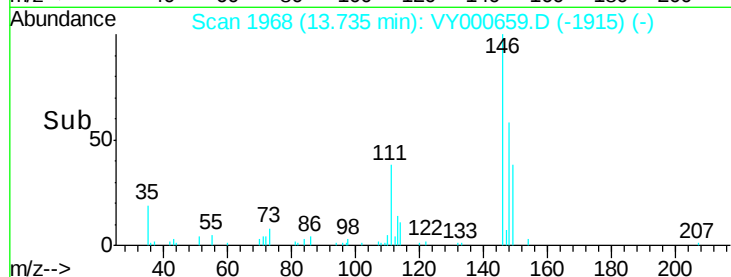
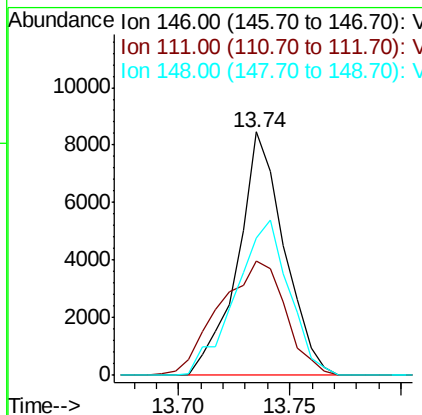
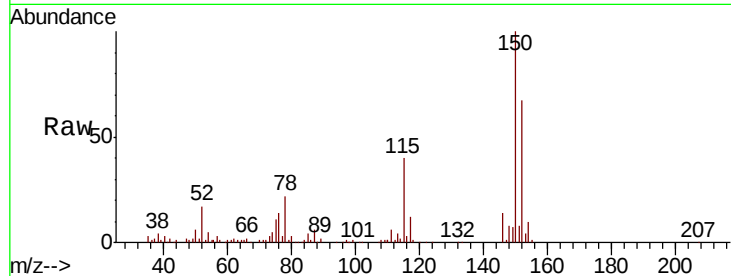
ClientSampleId :

MDL07

Tot Ion:	146	Resp:	12314
Ion Ratio	Lower	Upper	
146	100		
111	46.8	33.8	50.8
148	56.2	51.0	76.6

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.267 ug/L

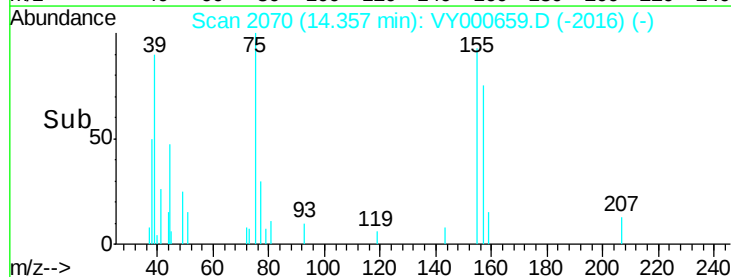
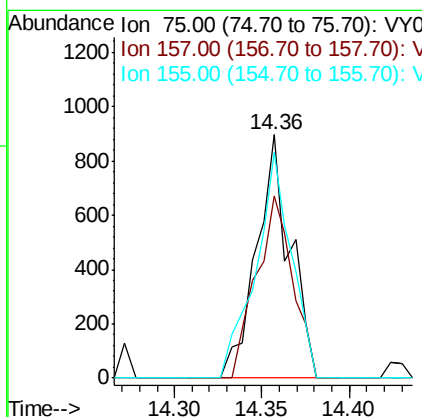
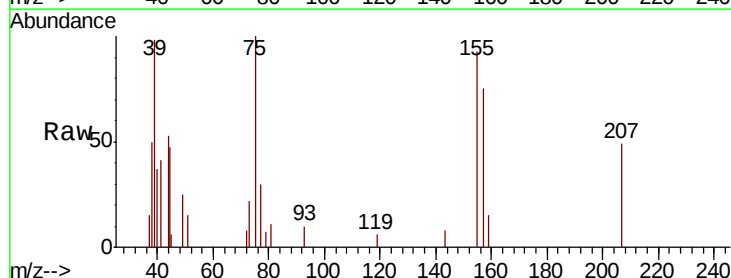
RT: 14.36 min Scan# 2070

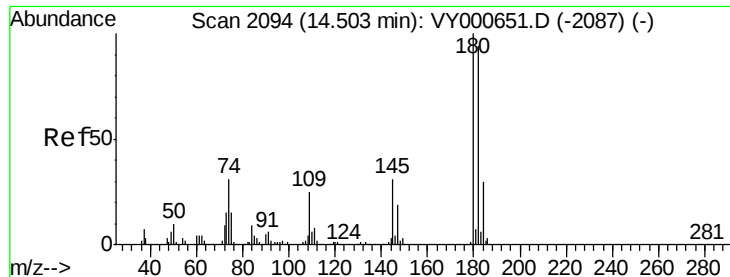
Delta R.T. 0.00 min

Lab File: VY000659.D

Acq: 12 Nov 2019 16:23

Tgt Ion:	75	Resp:	1204
Ion Ratio	Lower	Upper	
75	100		
157	74.9	78.1	117.1#
155	92.9	64.2	96.4





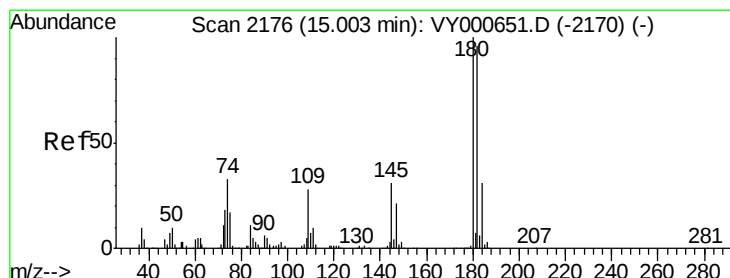
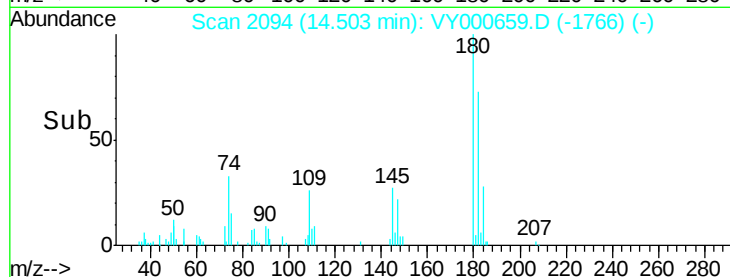
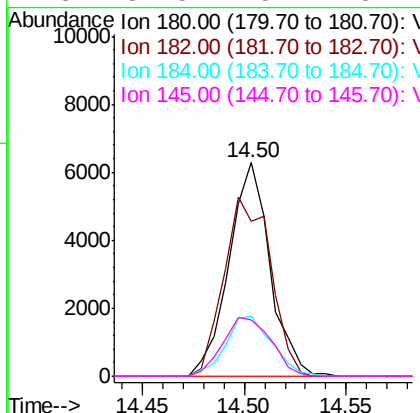
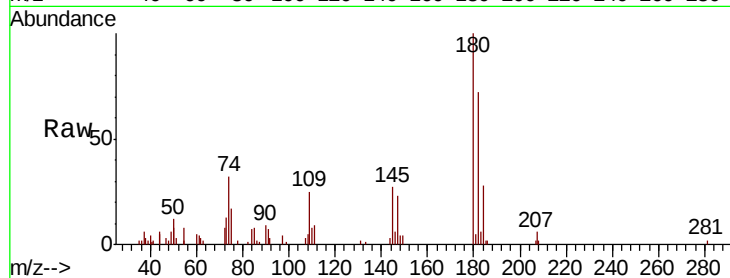
#67
 1,3,5-Trichlorobenzene
 Concen: 1.162 ug/L
 RT: 14.50 min Scan# 2094
 Delta R.T. 0.00 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Resp	Lower	Upper
180	100	8749		
182	95.6		75.6	113.4
184	31.7		24.5	36.7
145	32.5		25.1	37.7

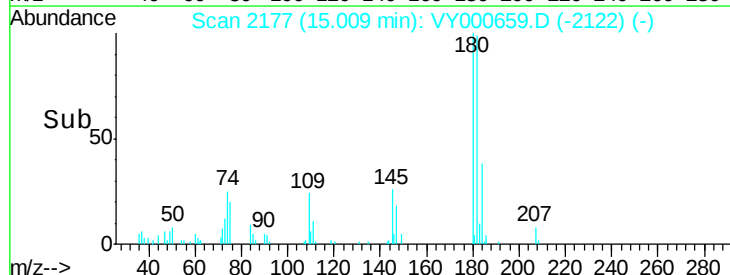
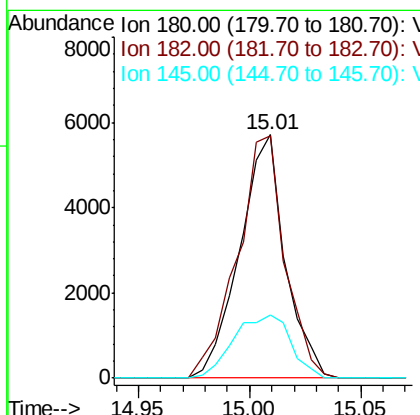
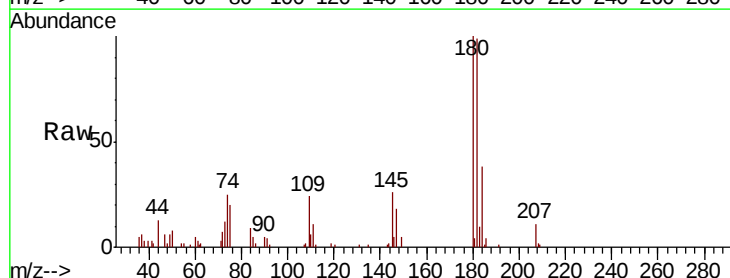
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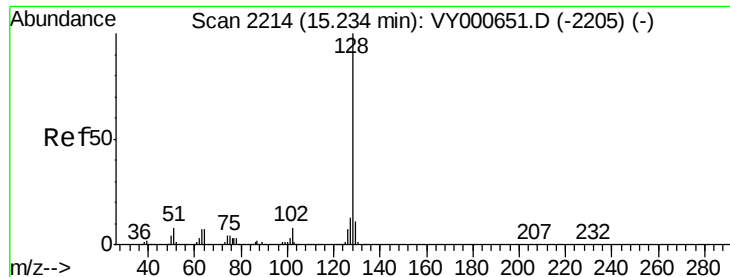
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#68
 1,2,4-trichlorobenzene
 Concen: 1.211 ug/L
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.01 min
 Lab File: VY000659.D
 Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	8147		
182	103.4		77.5	116.3
145	32.3		25.4	38.2





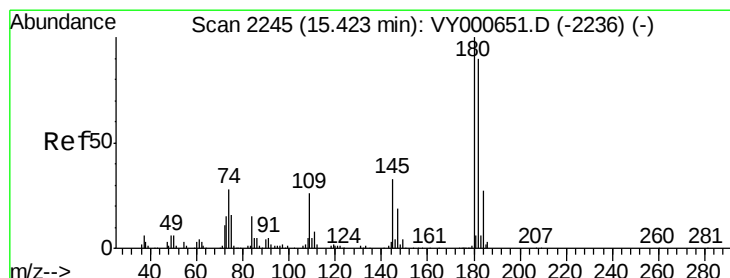
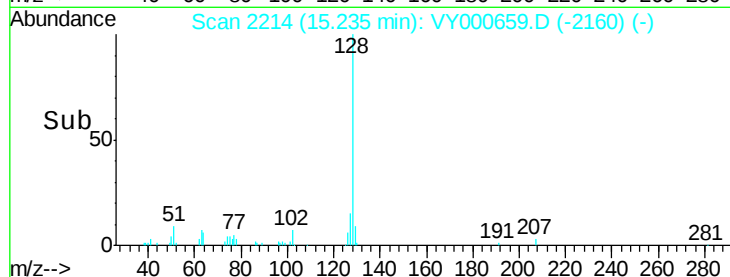
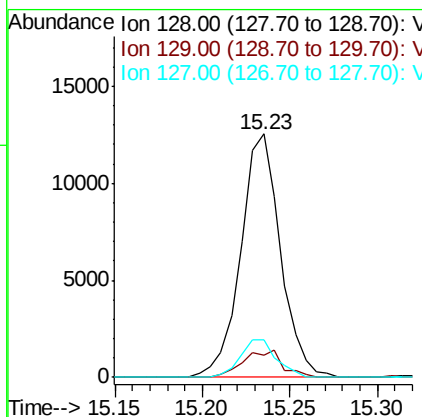
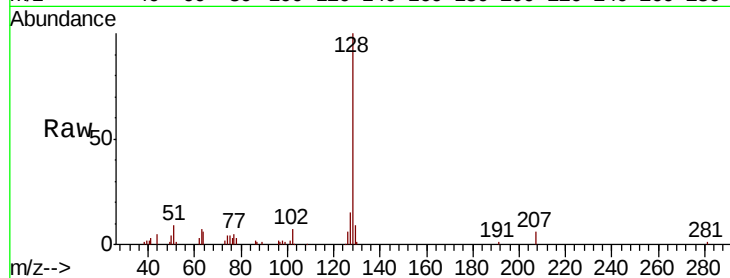
#69
Naphthalene
Concen: 1.180 ug/L
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Instrument :
MSVOA_Y
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	14.0	9.8	14.6

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 1.313 ug/L
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY000659.D
Acq: 12 Nov 2019 16:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	76.2	114.4
145	32.3	26.6	39.8

