

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
 Data File : VY003651.D
 Acq On : 03 Dec 2020 18:17
 Operator : SY/MD
 Sample : VY1203SBL06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VBLK425

Quant Time: Dec 04 00:26:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 04 00:25:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	234137	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	221738	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	109790	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	58613	19.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.64%
7) Chloroethane-d5	2.77	69	48970	20.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.52%
11) 1,1-Dichloroethene-d2	3.86	63	93643	15.38	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.52%
21) 2-Butanone-d5	6.90	46	64185	48.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.74%
24) Chloroform-d	7.49	84	128980	21.72	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.88%
26) 1,2-Dichloroethane-d4	8.15	65	74247	23.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.36%
32) Benzene-d6	8.12	84	279546	22.18	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.72%
36) 1,2-Dichloropropane-d6	9.13	67	86813	22.62	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	90.48%
41) Toluene-d8	10.18	98	248378	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.24%
43) trans-1,3-Dichloropropene-	10.43	79	40800	22.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.84%
47) 2-Hexanone-d5	10.79	63	49558	48.32	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.64%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	71446	18.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	73.64%
66) 1,2-Dichlorobenzene-d4	13.72	152	93421	23.98	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	1065	0.392 ug/L	98
3) Chloromethane	2.12	50	2190	0.743 ug/L	95
16) Methylene chloride	4.72	84	9176	2.322 ug/L	96
40) 4-Methyl-2-pentanone	10.08	43	3368	1.115 ug/L	98
53) m,p-Xylene	11.70	106	1970	0.331 ug/L	70
55) Styrene	12.04	104	2800	0.291 ug/L	85
57) 1,1,2,2-Tetrachloroethane	12.58	83	1422	0.371 ug/L #	84
60) Isopropylbenzene	12.33	105	4066	0.290 ug/L #	88
61) 1,2,3-Trichloropropane	12.64	75	1111	0.423 ug/L #	83
62) 1,3,5-Trimethylbenzene	12.81	105	3603	0.324 ug/L	97
63) 1,2,4-Trimethylbenzene	13.12	105	4184	0.380 ug/L	90
64) 1,3-Dichlorobenzene	13.37	146	2968	0.437 ug/L	94
65) 1,4-Dichlorobenzene	13.44	146	3406	0.494 ug/L	93
67) 1,2-Dichlorobenzene	13.73	146	2847	0.446 ug/L #	77
69) 1,3,5-Trichlorobenzene	14.50	180	2965	0.622 ug/L	96
70) 1,2,4-trichlorobenzene	15.01	180	2982	0.734 ug/L	97
71) Naphthalene	15.23	128	6881	0.776 ug/L	97

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ClientSampleId :
VBLK425

Quant Time: Dec 04 00:26:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYLEM120120SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 04 00:25:15 2020
Response via : Initial Calibration

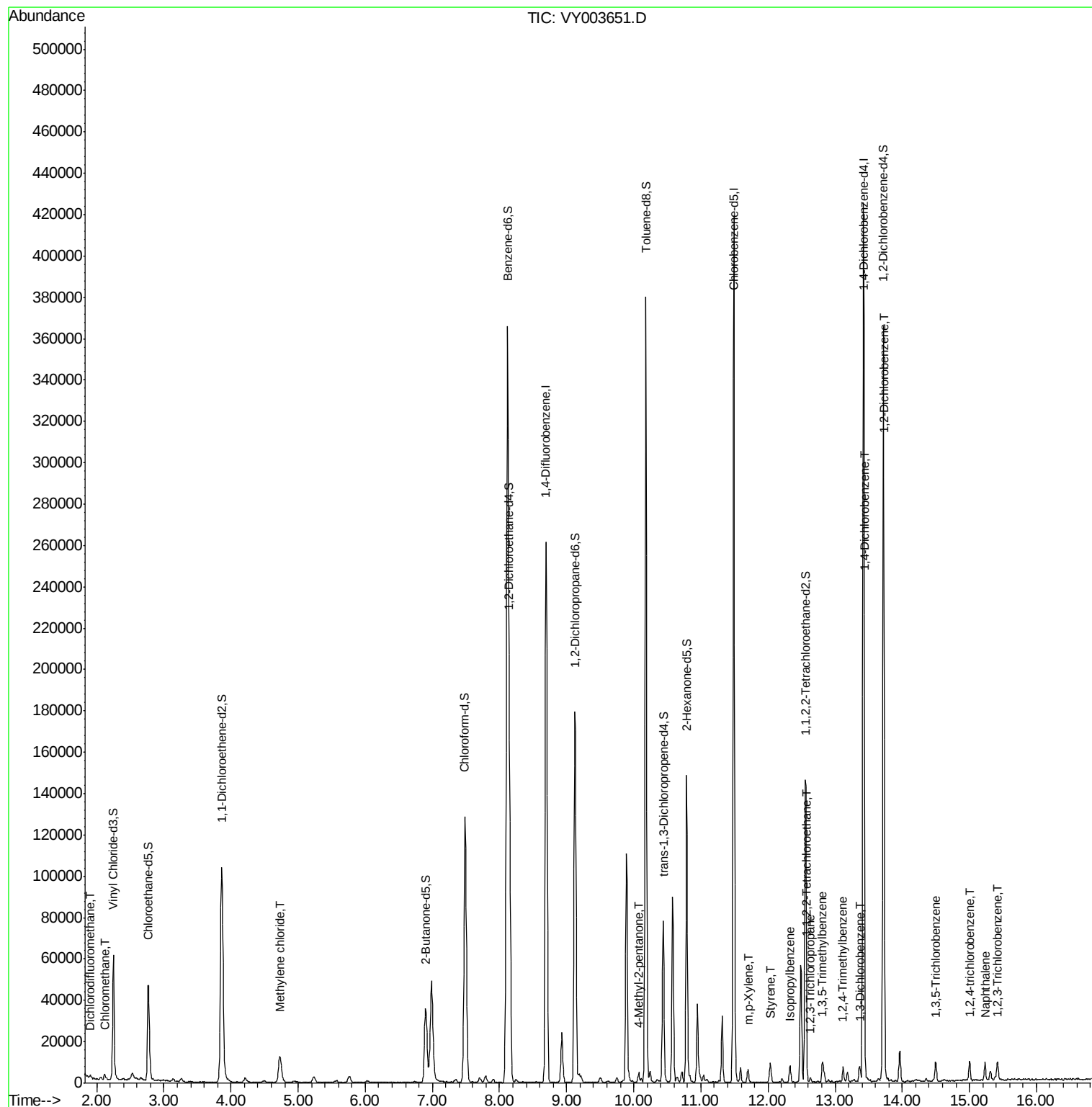
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	15.42	180	3107	0.833	ug/L	98

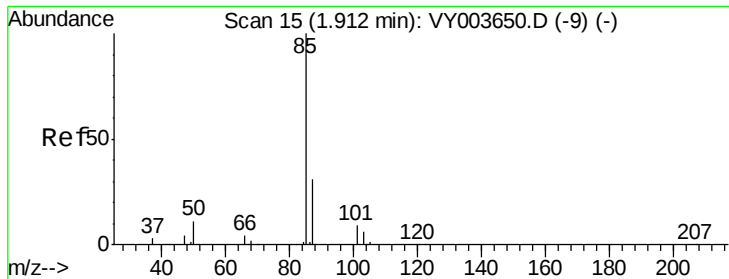
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
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Quant Time: Dec 04 00:26:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 04 00:25:15 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.392 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.01 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampleId :

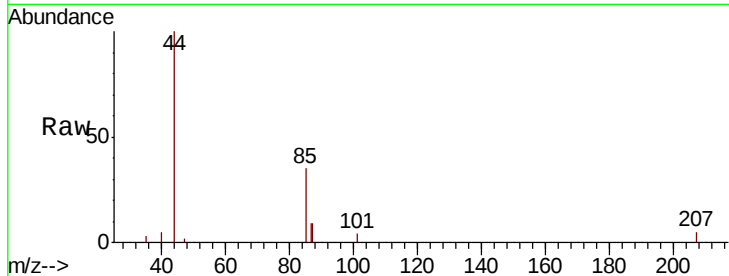
VBLK425

Tot Ion: 85 Resp: 1065

Ion Ratio Lower Upper

85 100

87 33.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

1.91

800

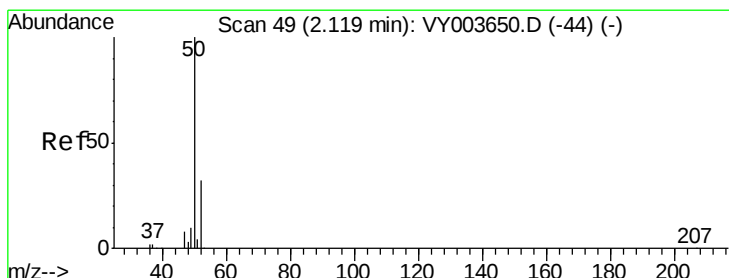
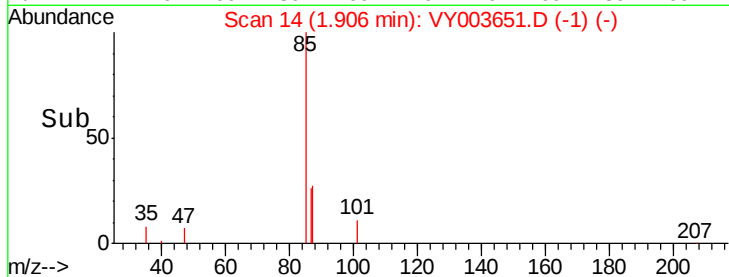
600

400

200

0

Time-->



#3

Chloromethane

Concen: 0.743 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003651.D

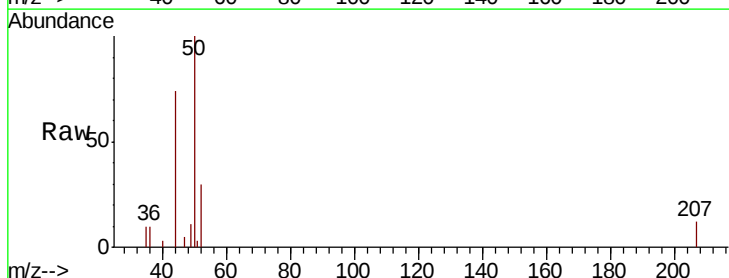
Acq: 03 Dec 2020 18:17

Tgt Ion: 50 Resp: 2190

Ion Ratio Lower Upper

50 100

52 29.6 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

2000

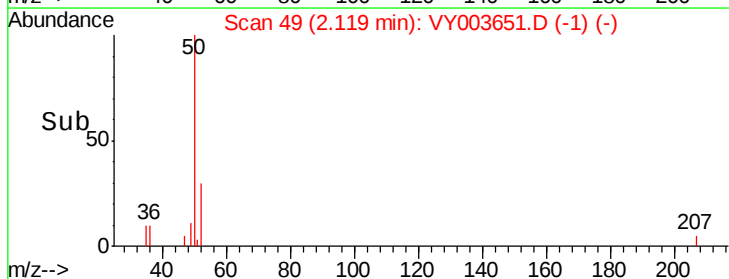
1500

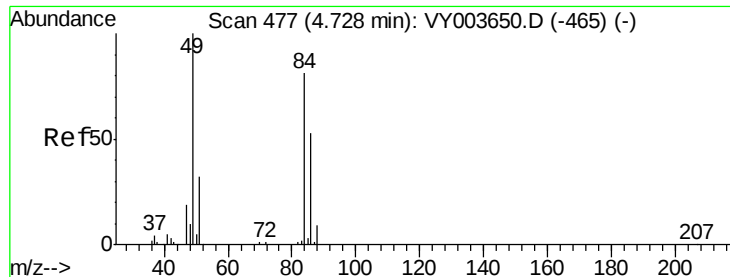
1000

500

0

Time-->

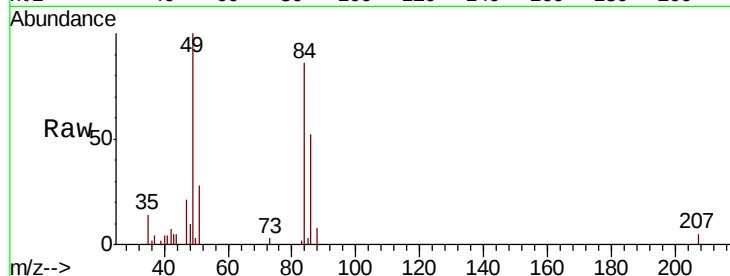




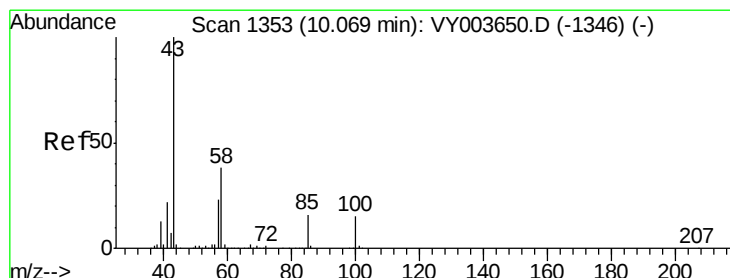
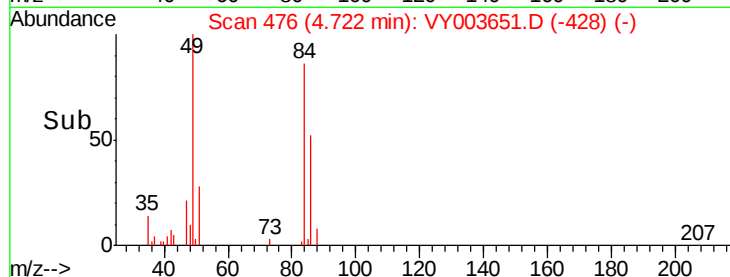
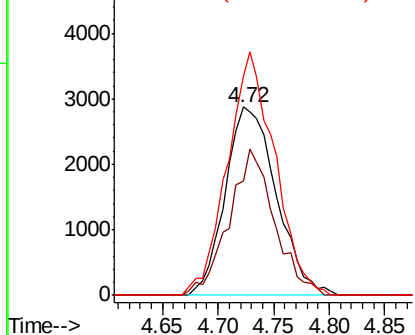
#16
Methylene chloride
Concen: 2.322 ug/L
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VY003651.D
Acq: 03 Dec 2020 18:17

Instrument :
MSVOA_Y
ClientSampled :
VBLK425

Tot Ion: 84 Resp: 9176
Ion Ratio Lower Upper
84 100
86 60.6 43.3 80.3
49 116.2 85.3 158.5

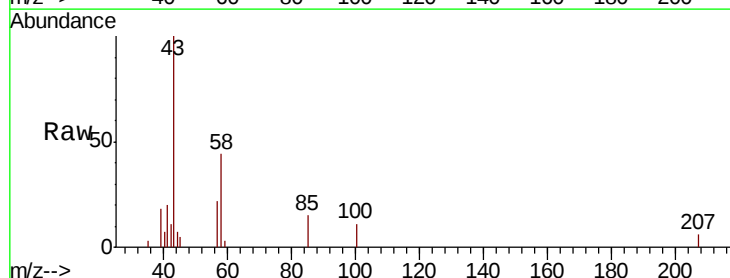


Abundance Ion 84.00 (83.70 to 84.70): VY0
Ion 86.00 (85.70 to 86.70): VY0
Ion 49.00 (48.70 to 49.70): VY0

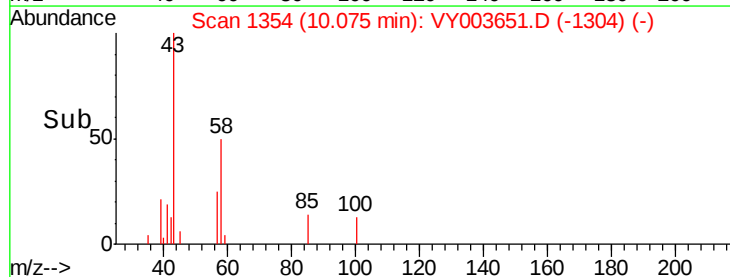
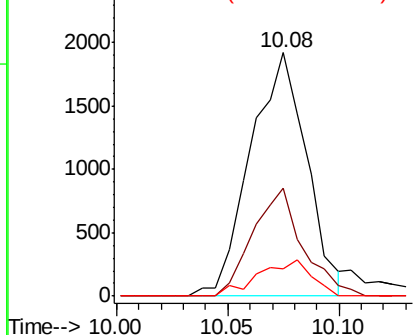


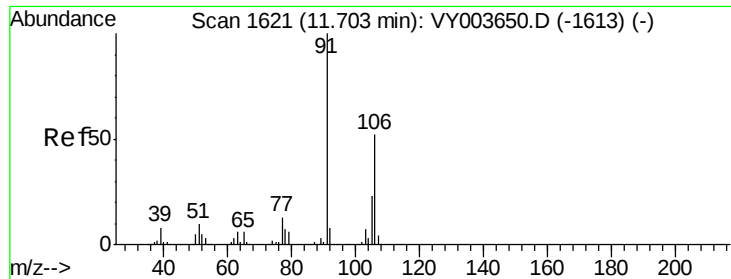
#40
4-Methyl-2-pentanone
Concen: 1.115 ug/L
RT: 10.08 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VY003651.D
Acq: 03 Dec 2020 18:17

Tgt Ion: 43 Resp: 3368
Ion Ratio Lower Upper
43 100
58 39.7 30.7 46.1
100 13.9 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#53

m,p-Xylene

Concen: 0.331 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampleId :

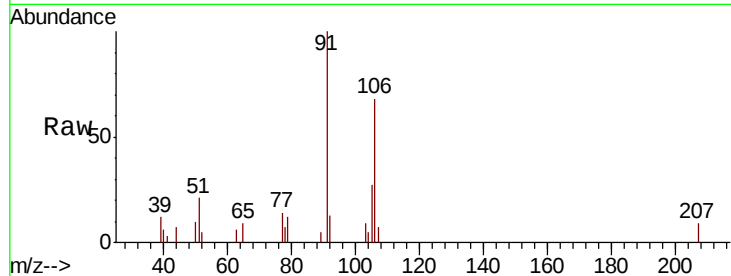
VBLK425

Tot Ion:106 Resp: 1970

Ion Ratio Lower Upper

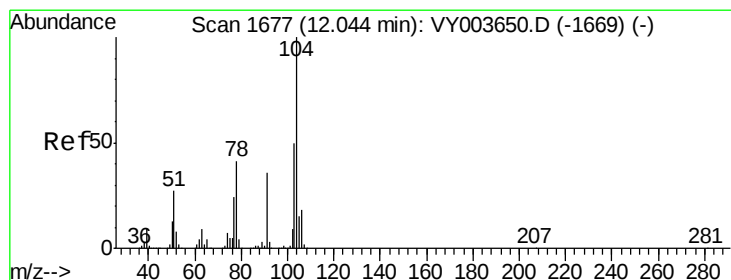
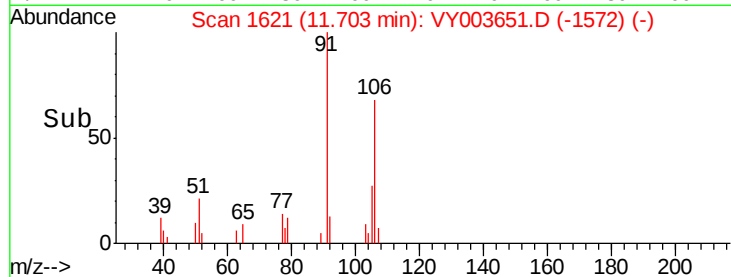
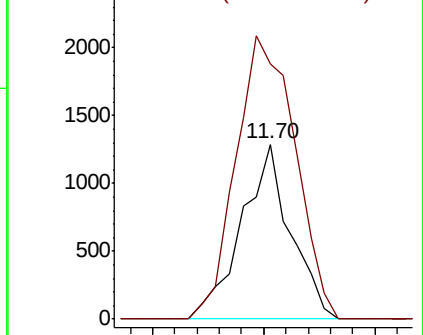
106 100

91 146.0 133.1 247.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

Styrene

Concen: 0.291 ug/L

RT: 12.04 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VY003651.D

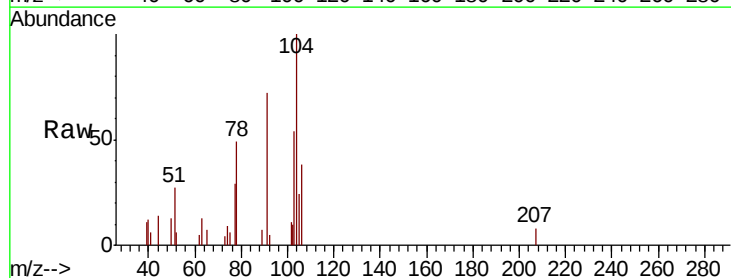
Acq: 03 Dec 2020 18:17

Tgt Ion:104 Resp: 2800

Ion Ratio Lower Upper

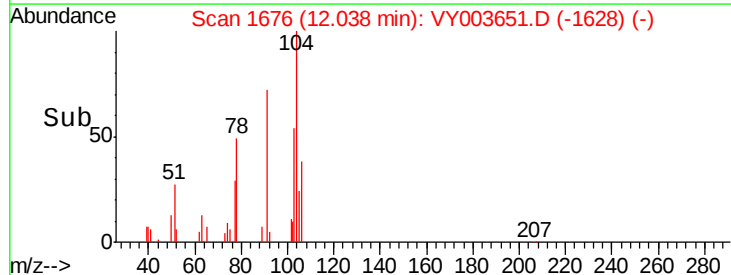
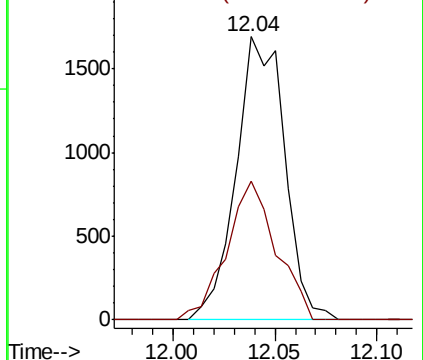
104 100

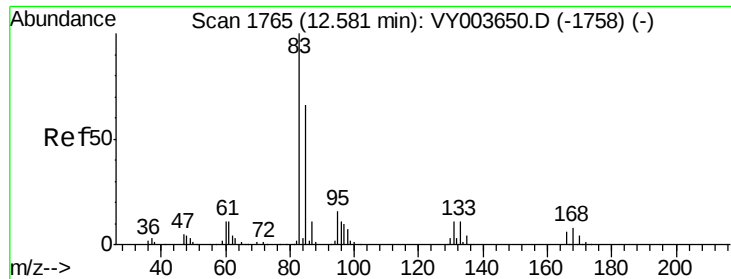
78 48.9 27.6 51.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.371 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampleId :

VBLK425

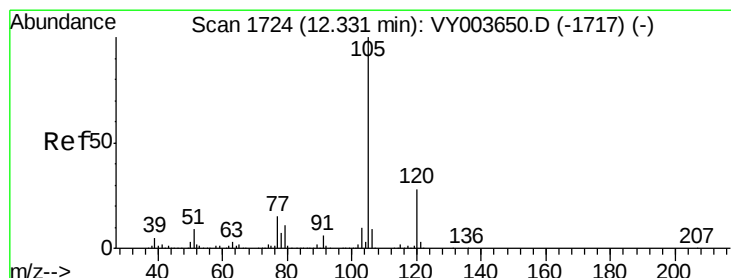
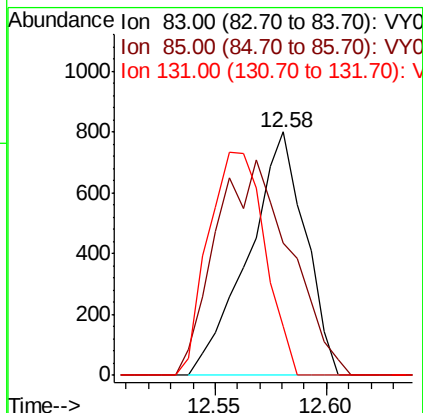
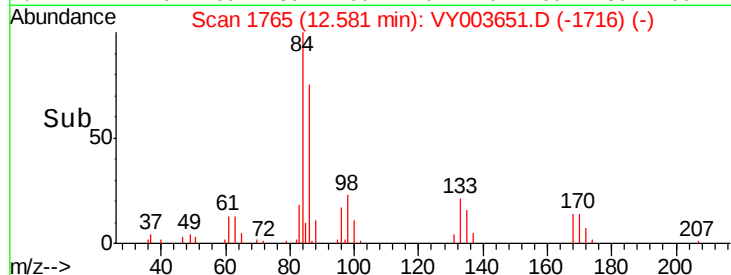
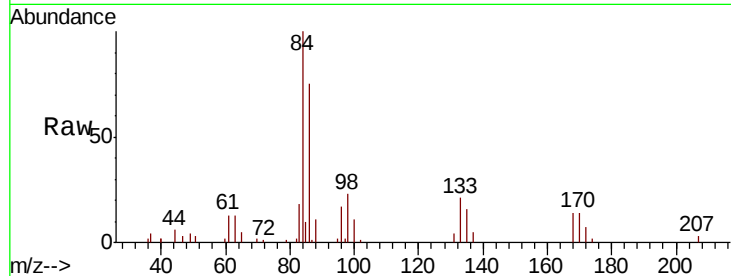
Tot Ion: 83 Resp: 1422

Ion Ratio Lower Upper

83 100

85 54.2 46.1 85.7

131 20.3 8.1 12.1#



#60

Isopropylbenzene

Concen: 0.290 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

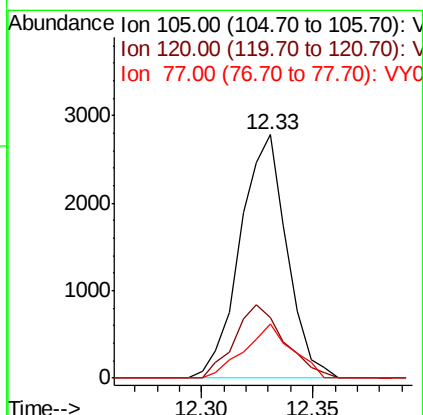
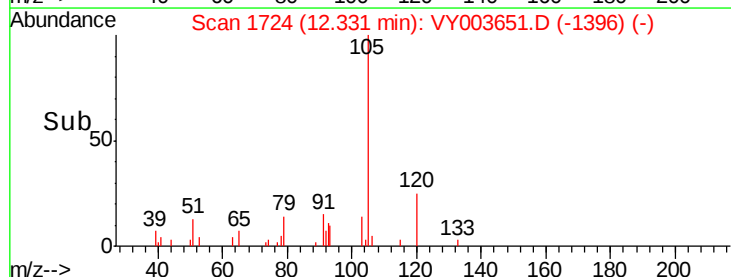
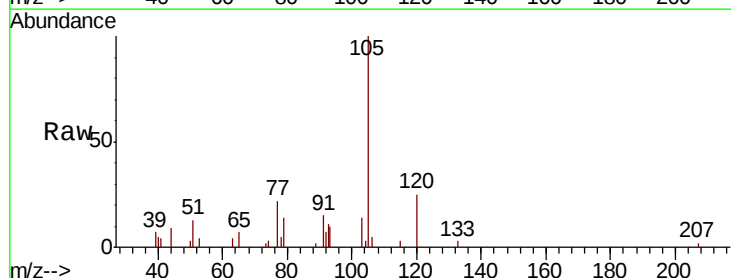
Tgt Ion: 105 Resp: 4066

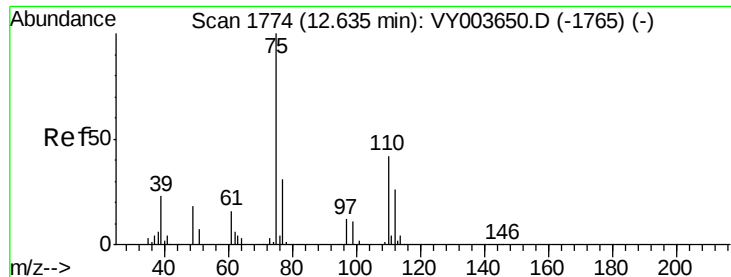
Ion Ratio Lower Upper

105 100

120 32.3 22.0 33.0

77 22.4 12.1 18.1#

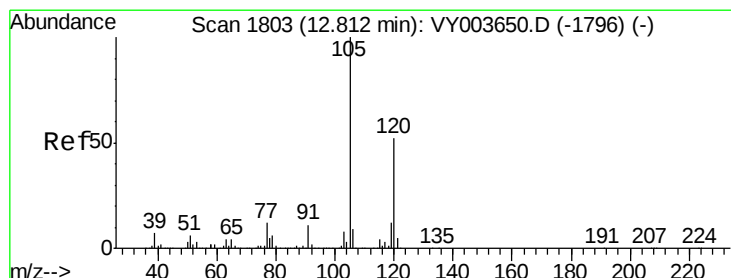
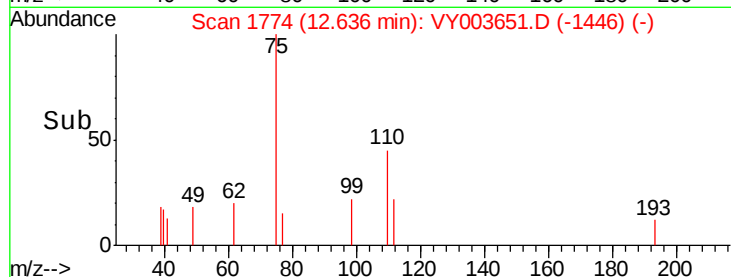
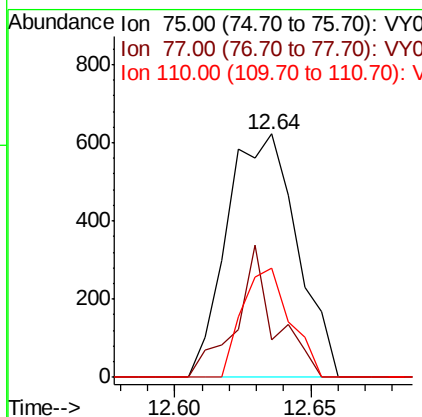
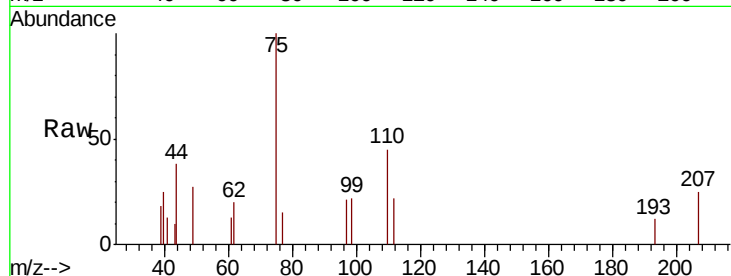




#61
 1,2,3-Trichloropropane
 Concen: 0.423 ug/L
 RT: 12.64 min Scan# 1774
 Delta R.T. 0.00 min
 Lab File: VY003651.D
 Acq: 03 Dec 2020 18:17

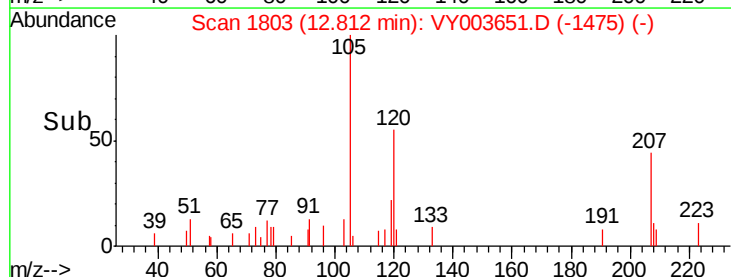
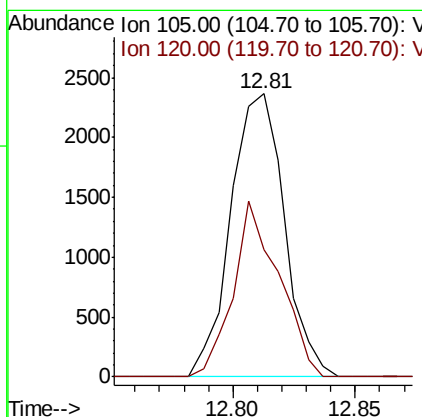
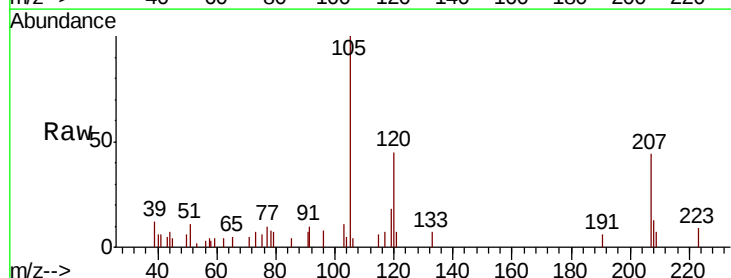
Instrument :
 MSVOA_Y
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 VBLK425

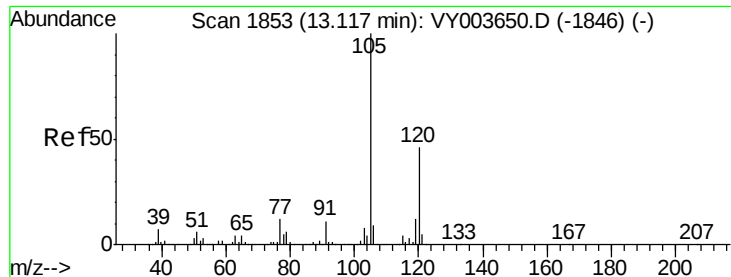
Tot Ion: 75 Resp: 1111
 Ion Ratio Lower Upper
 75 100
 77 23.3 26.3 39.5#
 110 30.6 33.0 49.4#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.324 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VY003651.D
 Acq: 03 Dec 2020 18:17

Tgt Ion: 105 Resp: 3603
 Ion Ratio Lower Upper
 105 100
 120 52.7 40.4 60.6





#63

1,2,4-Trimethylbenzene

Concen: 0.380 ug/L

RT: 13.12 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampleId :

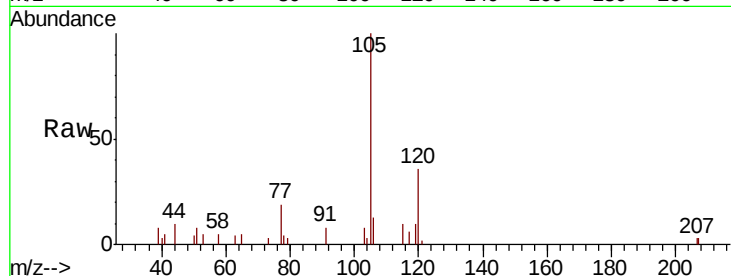
VBLK425

Tot Ion:105 Resp: 4184

Ion Ratio Lower Upper

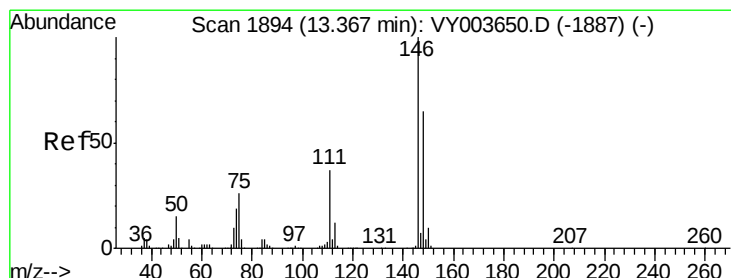
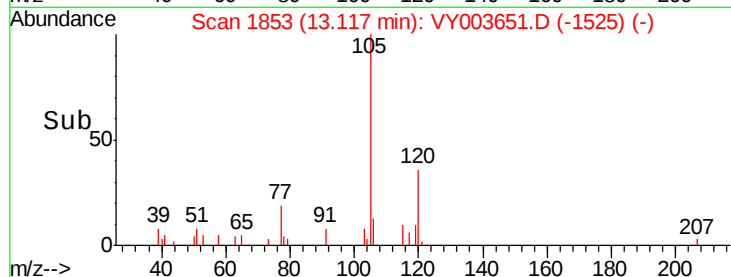
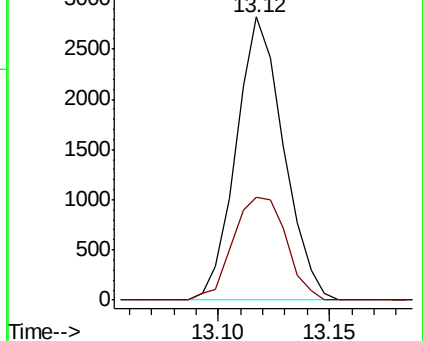
105 100

120 40.6 38.0 57.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#64

1,3-Dichlorobenzene

Concen: 0.437 ug/L

RT: 13.37 min Scan# 1894

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

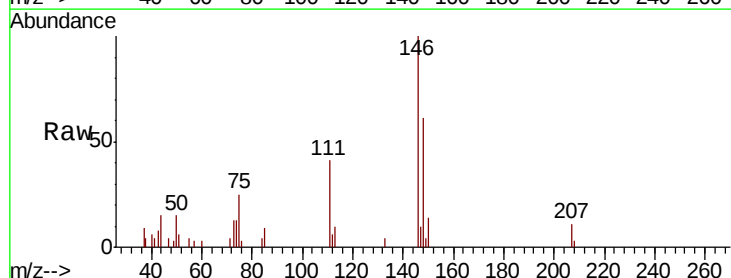
Tgt Ion:146 Resp: 2968

Ion Ratio Lower Upper

146 100

111 40.5 26.6 49.4

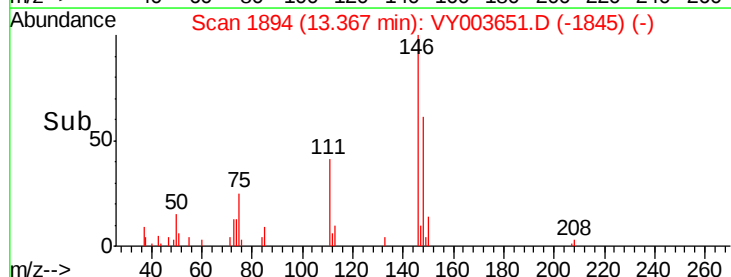
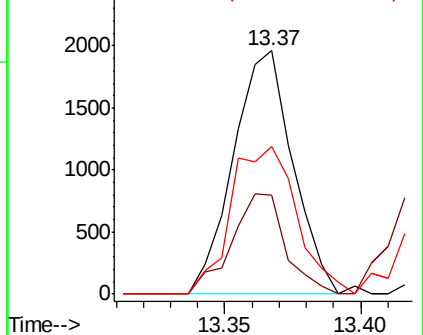
148 60.7 46.3 86.1

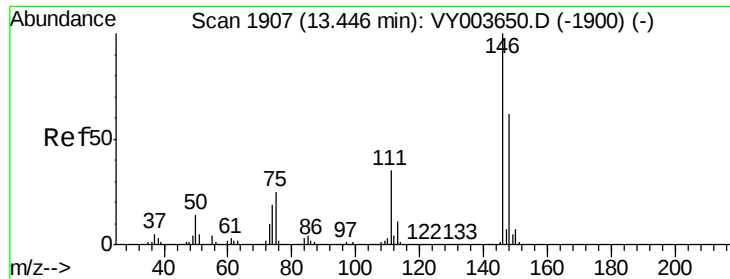


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,4-Dichlorobenzene

Concen: 0.494 ug/L

RT: 13.44 min Scan# 1906

Delta R.T. -0.01 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampleId :

VBLK425

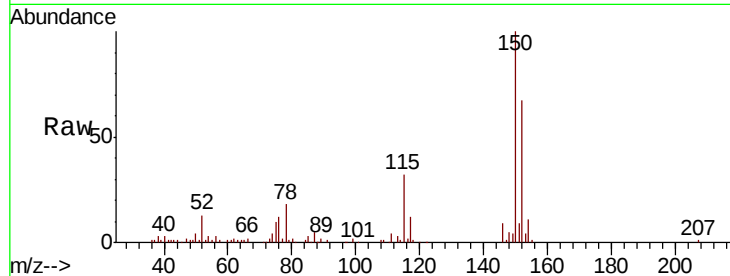
Tot Ion:146 Resp: 3406

Ion Ratio Lower Upper

146 100

111 43.0 24.7 45.9

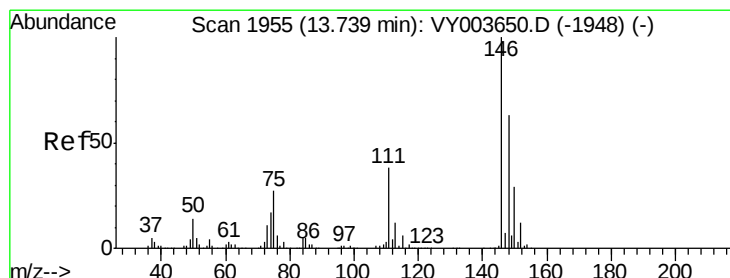
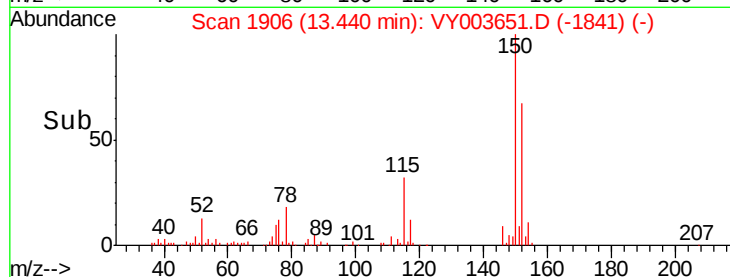
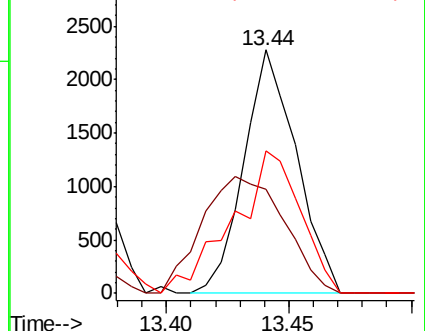
148 58.8 43.4 80.6



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: 0.446 ug/L

RT: 13.73 min Scan# 1954

Delta R.T. -0.01 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

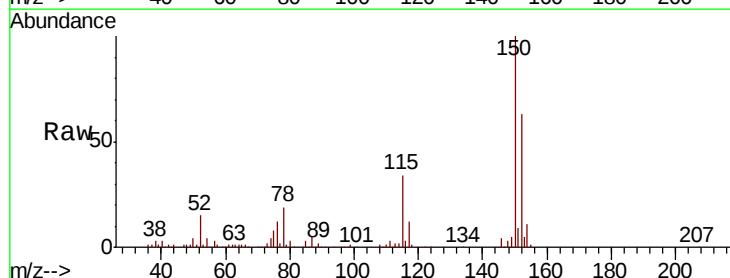
Tgt Ion:146 Resp: 2847

Ion Ratio Lower Upper

146 100

111 62.3 31.0 46.6#

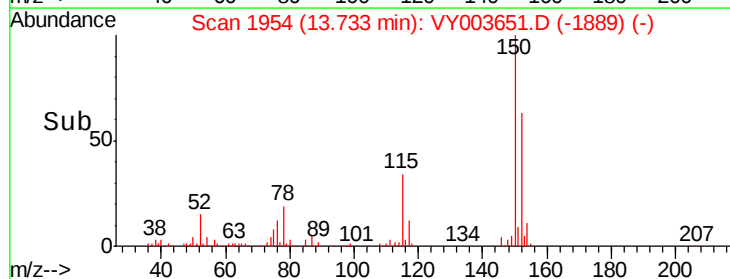
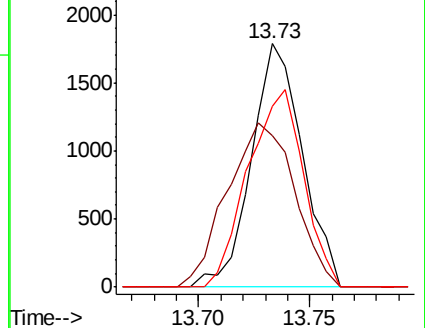
148 74.3 51.0 76.4

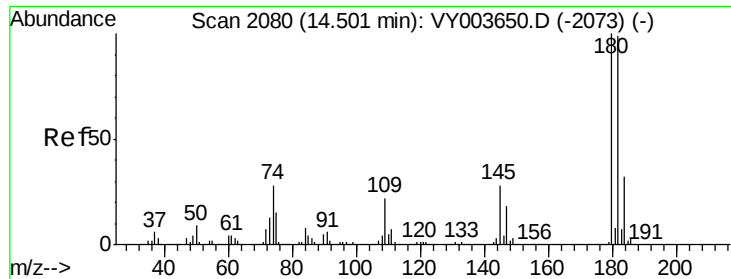


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

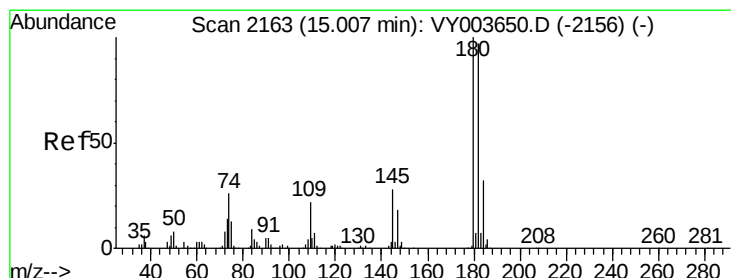
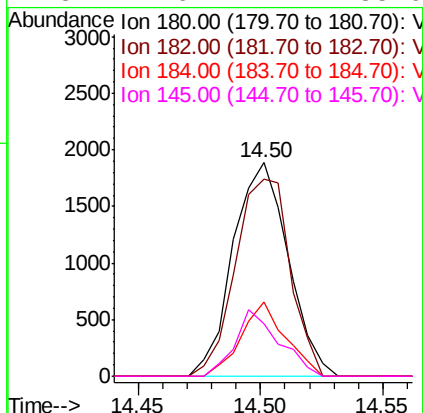
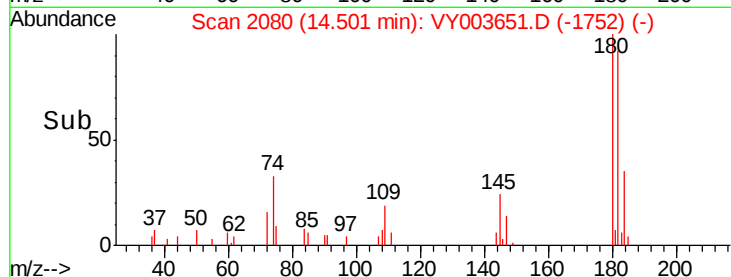
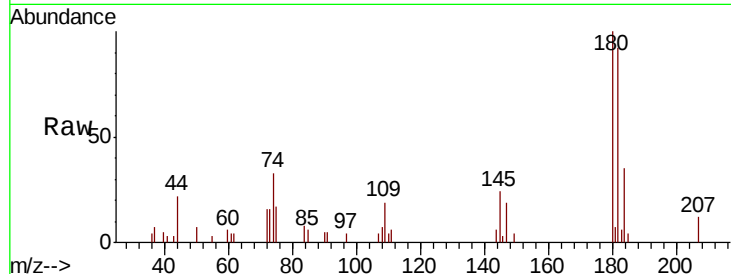




#69
 1,3,5-Trichlorobenzene
 Concen: 0.622 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VY003651.D
 Acq: 03 Dec 2020 18:17

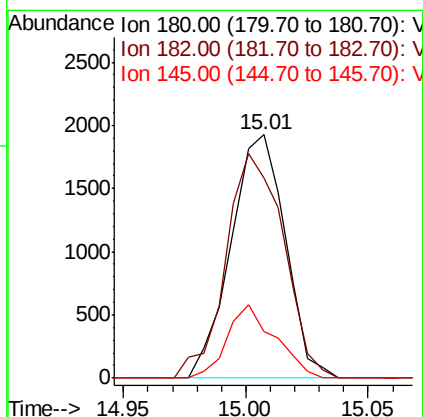
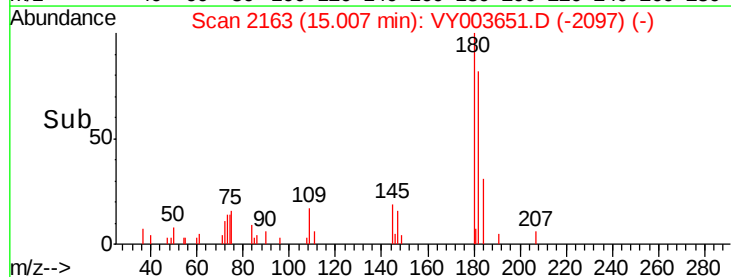
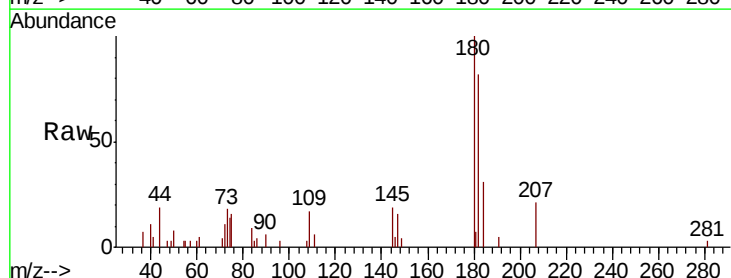
Instrument :
 MSVOA_Y
 ClientSampleId :
 VBLK425

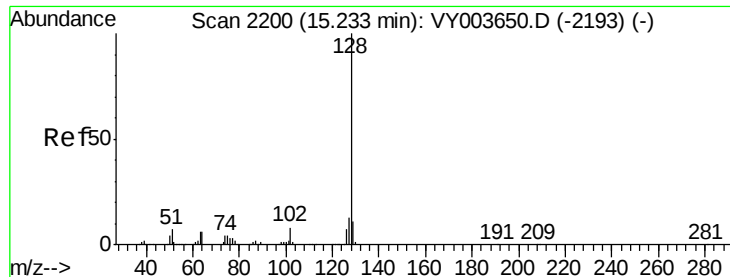
Tot Ion:180	Resp:	2965	
Ion Ratio	Lower	Upper	
180 100			
182 91.6	75.4	113.0	
184 27.9	24.1	36.1	
145 24.6	22.4	33.6	



#70
 1,2,4-trichlorobenzene
 Concen: 0.734 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VY003651.D
 Acq: 03 Dec 2020 18:17

Tgt Ion	180	Resp: Lower	2982 Upper
180	100		
182	97.8	76.1	114.1
145	26.4	22.8	34.2





#71

Naphthalene

Concen: 0.776 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

Instrument :

MSVOA_Y

ClientSampled :

VBLK425

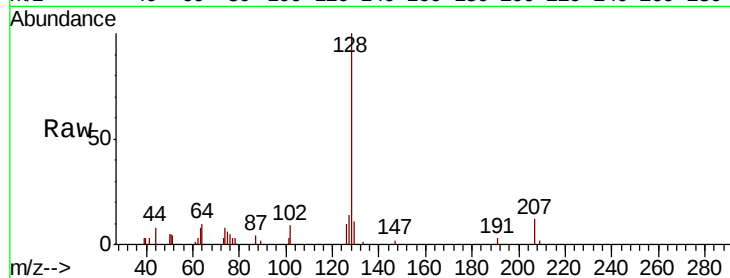
Tot Ion:128 Resp: 6881

Ion Ratio Lower Upper

128 100

127 14.8 10.4 15.6

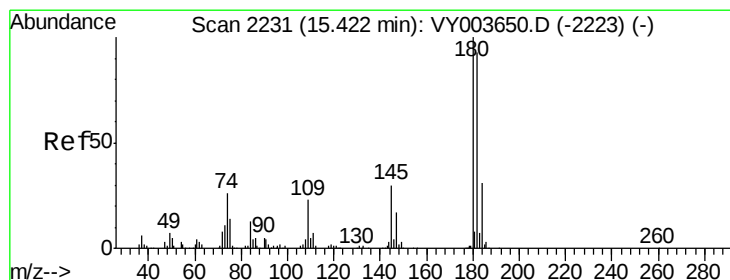
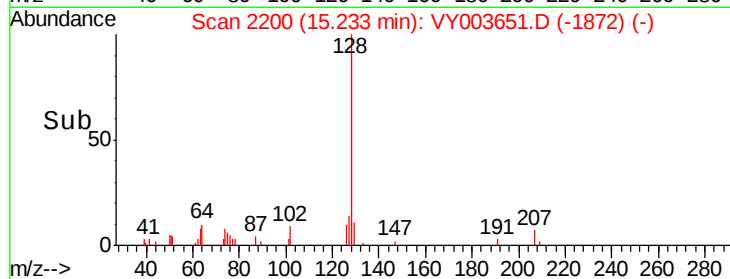
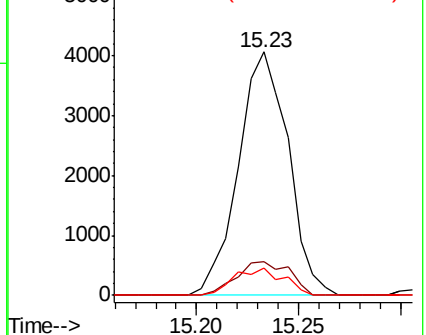
129 11.2 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 0.833 ug/L

RT: 15.42 min Scan# 2231

Delta R.T. 0.00 min

Lab File: VY003651.D

Acq: 03 Dec 2020 18:17

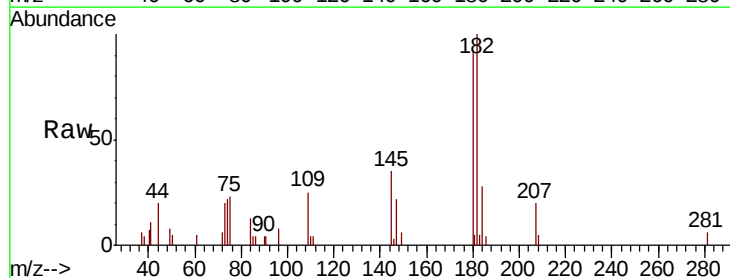
Tgt Ion:180 Resp: 3107

Ion Ratio Lower Upper

180 100

182 94.0 76.2 114.4

145 31.1 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

