

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121120\
 Data File : VY003732.D
 Acq On : 11 Dec 2020 17:12
 Operator : SY/MD
 Sample : L5063-04
 Misc : 4.09G/10ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD6

Quant Time: Dec 12 01:41:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 11 10:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	304894	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	215150	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	54628	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	82049	19.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.12%
7) Chloroethane-d5	2.77	69	73254	22.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.08%
10) 1,1-Dichloroethene-d2	3.86	63	137365	16.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.72%
20) 2-Butanone-d5	6.90	46	71513	46.52	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.04%
24) Chloroform-d	7.48	84	191510	24.41	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.64%
26) 1,2-Dichloroethane-d4	8.15	65	106717	24.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.68%
29) Benzene-d6	8.12	84	392983	31.55	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	126.20%
33) 1,2-Dichloropropane-d6	9.12	67	119578	32.44	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	129.76%#
37) Toluene-d8	10.18	98	303868	27.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.84%
38) trans-1,3-Dichloropropene-	10.44	79	52312	29.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	118.76%
39) 2-Hexanone-d5	10.79	63	56227	60.89	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.78%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	78051	23.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.08%
61) 1,2-Dichlorobenzene-d4	13.72	152	48131	24.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.00%

Target Compounds

					Ovalue
13) Acetone	3.96	43	3123	2.772	ug/L 83
14) Carbon disulfide	4.21	76	12584	1.035	ug/L 98
36) Methylcyclohexane	9.12	83	29023	5.605	ug/L # 22
42) cis-1,3-Dichloropropene	9.89	75	4059	0.835	ug/L # 70
44) Toluene	10.25	91	8979	0.692	ug/L 87
46) 1,1,2-Trichloroethane	10.61	97	1687	0.634	ug/L # 21
53) Ethylbenzene	11.59	91	4224	0.298	ug/L 98
54) m,p-Xylene	11.70	106	3263	0.597	ug/L 95
55) o-xylene	12.03	106	3433	0.655	ug/L 91
57) Isopropylbenzene	12.32	105	9915	0.723	ug/L # 91
58) 1,1,2,2-Tetrachloroethane	12.56	83	2798	0.981	ug/L # 81
66) 1,2-Dibromo-3-chloropropan	14.33	75	7205	25.950	ug/L # 1
68) 1,2,4-trichlorobenzene	15.00	180	900	0.459	ug/L # 1
69) Naphthalene	15.23	128	257322	62.618	ug/L 97
70) 1,2,3-Trichlorobenzene	15.44	180	2213	1.236	ug/L # 1

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Quant Title : VOC Analysis
QLast Update : Fri Dec 11 10:03:37 2020
Response via : Initial Calibration

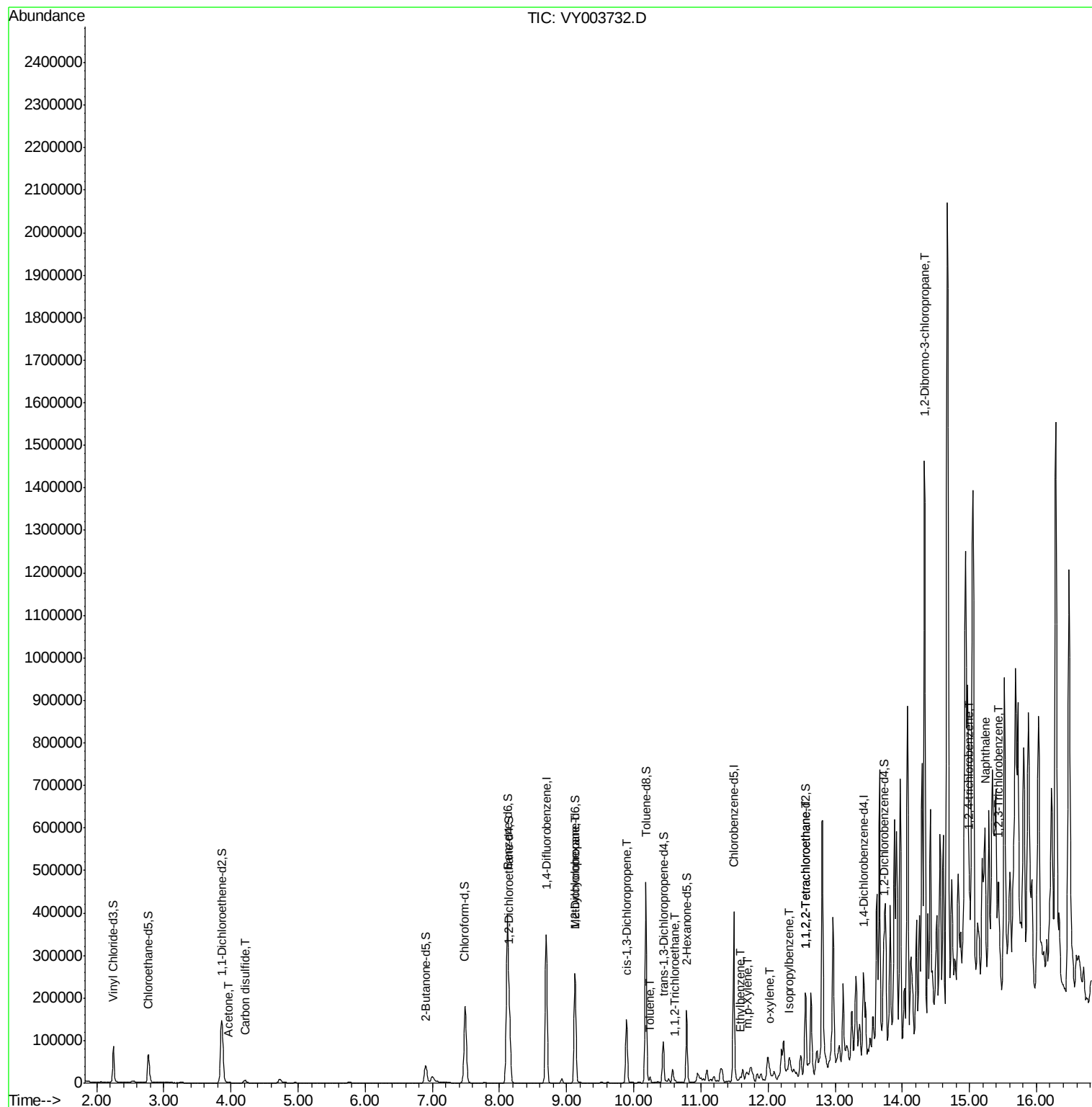
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

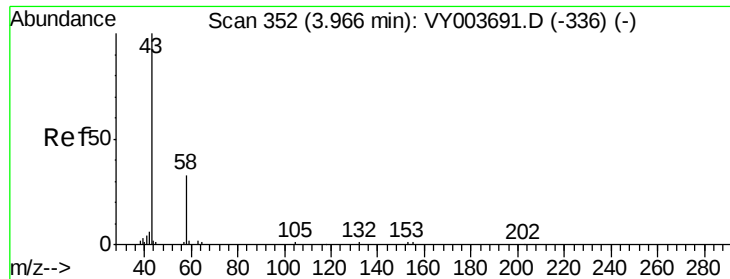
(#)= qualifier out of range (m)= manual integration (+)= signals summed						

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#13

Acetone

Concen: 2.772 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

Instrument :

MSVOA_Y

ClientSampleId :

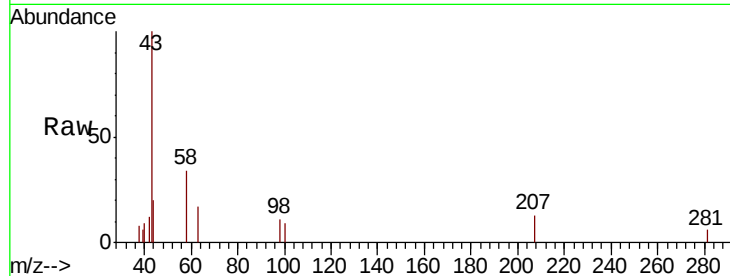
C0AD6

Tot Ion: 43 Resp: 3123

Ion Ratio Lower Upper

43 100

58 24.6 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

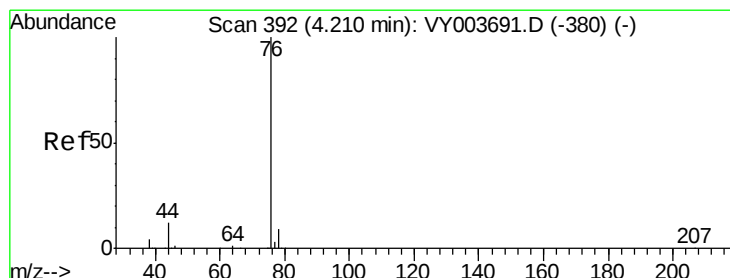
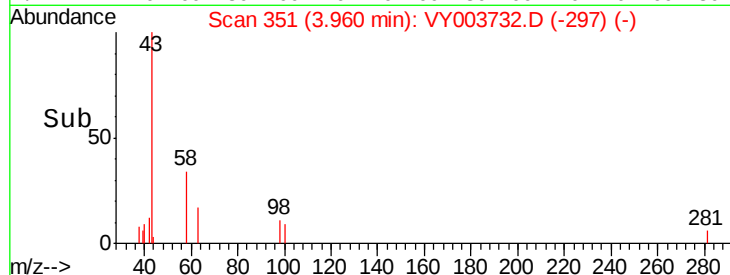
1000

500

0

Time-->

3.90 3.95 4.00



#14

Carbon disulfide

Concen: 1.035 ug/L

RT: 4.21 min Scan# 392

Delta R.T. 0.00 min

Lab File: VY003732.D

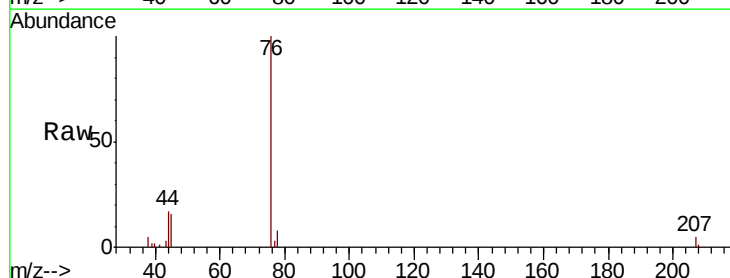
Acq: 11 Dec 2020 17:12

Tgt Ion: 76 Resp: 12584

Ion Ratio Lower Upper

76 100

78 8.2 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

4.21

5000

4000

3000

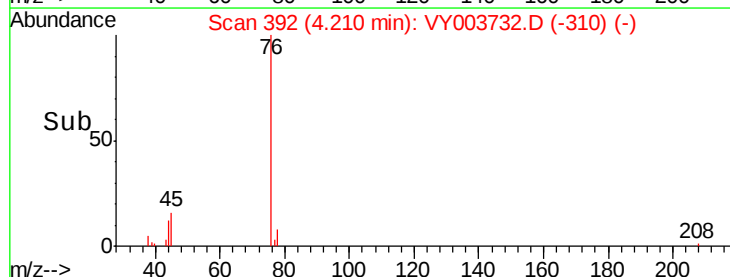
2000

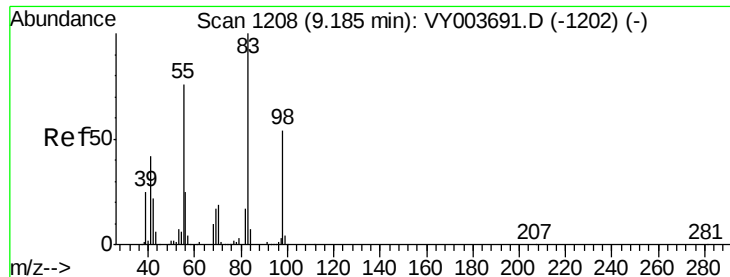
1000

0

Time-->

4.10 4.15 4.20 4.25

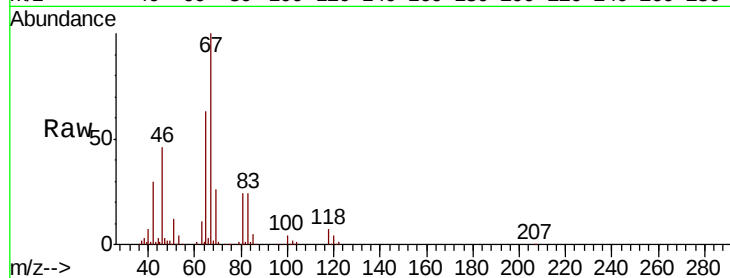




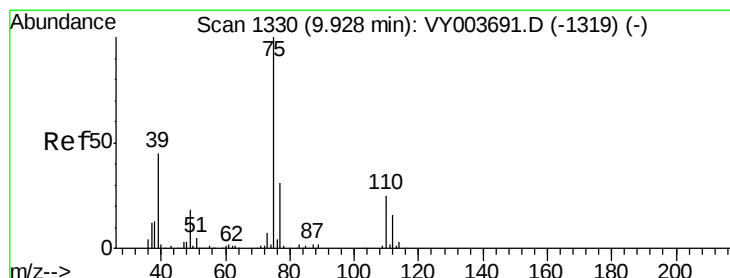
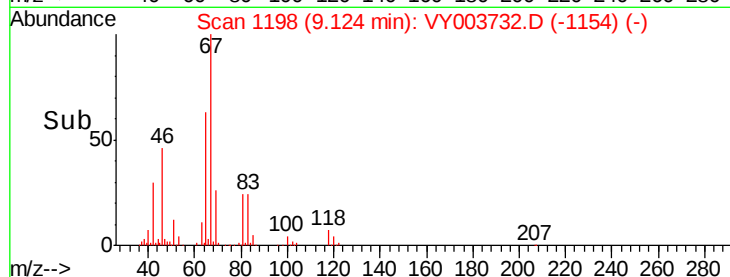
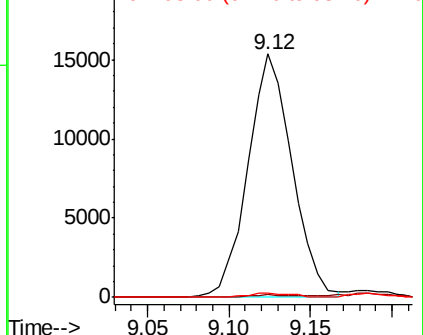
#36
Methylcyclohexane
Concen: 5.605 ug/L
RT: 9.12 min Scan# 1198
Delta R.T. -0.06 min
Lab File: VY003732.D
Acq: 11 Dec 2020 17:12

Instrument :
MSVOA_Y
ClientSampleId :
C0AD6

Tot Ion: 83 Resp: 29023
Ion Ratio Lower Upper
83 100
55 1.1 56.4 84.6#
98 1.8 40.3 60.5#

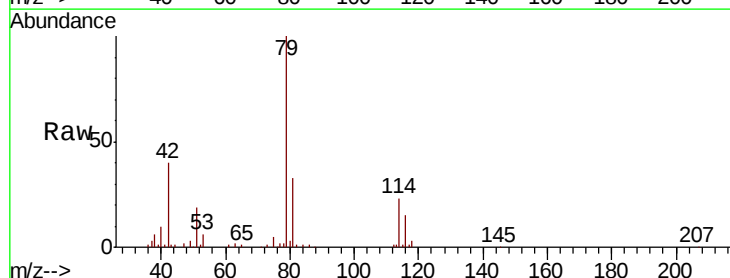


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

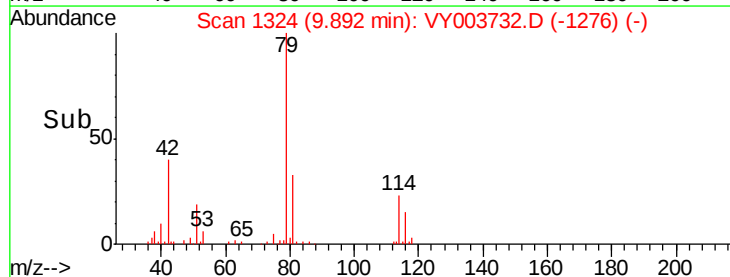
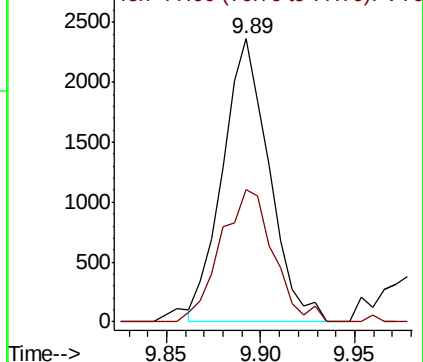


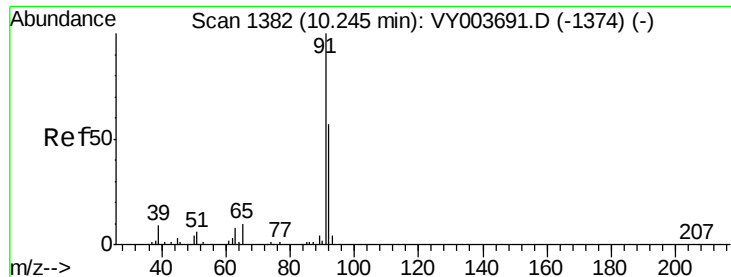
#42
cis-1,3-Dichloropropene
Concen: 0.835 ug/L
RT: 9.89 min Scan# 1324
Delta R.T. -0.04 min
Lab File: VY003732.D
Acq: 11 Dec 2020 17:12

Tgt Ion: 75 Resp: 4059
Ion Ratio Lower Upper
75 100
77 47.0 21.3 39.6#



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





#44

Toluene

Concen: 0.692 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

Instrument :

MSVOA_Y

ClientSampleId :

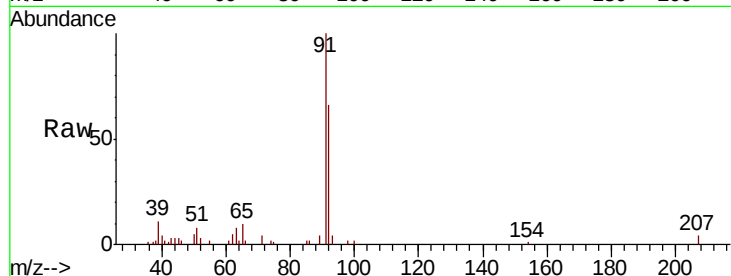
C0AD6

Tot Ion: 91 Resp: 8979

Ion Ratio Lower Upper

91 100

92 66.5 39.8 73.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

6000

5000

4000

3000

2000

1000

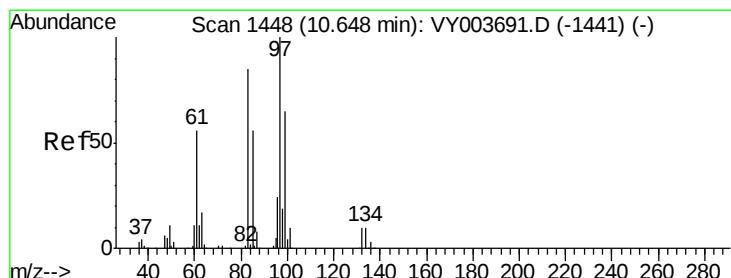
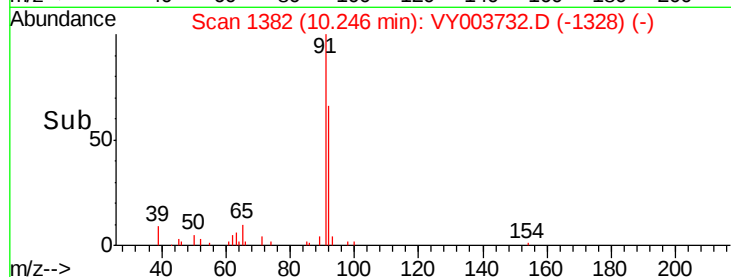
0

10.20

10.25

10.30

Time-->



#46

1,1,2-Trichloroethane

Concen: 0.634 ug/L

RT: 10.61 min Scan# 1442

Delta R.T. -0.04 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

Tgt Ion: 97 Resp: 1687

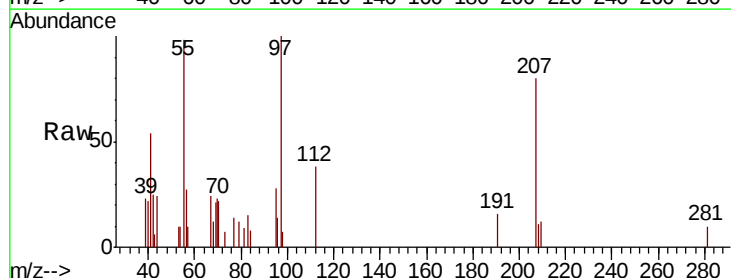
Ion Ratio Lower Upper

97 100

83 14.8 59.6 110.8#

85 0.0 40.2 74.6#

99 0.0 44.7 82.9#



Abundance Ion 97.00 (96.70 to 97.70): VY0

Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 99.00 (98.70 to 99.70): VY0

1200

1000

800

600

400

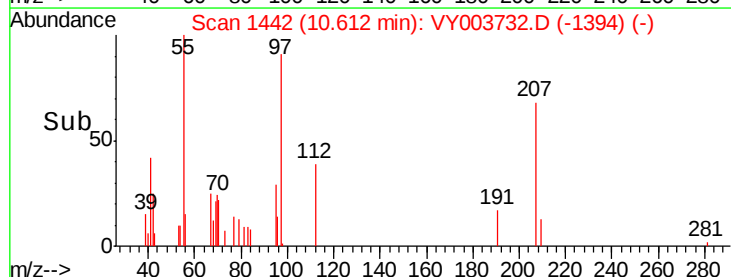
200

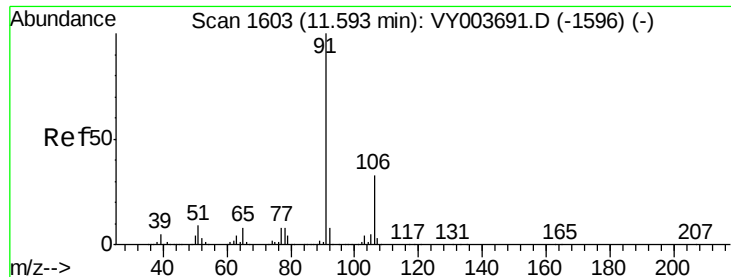
0

10.60

10.65

Time-->

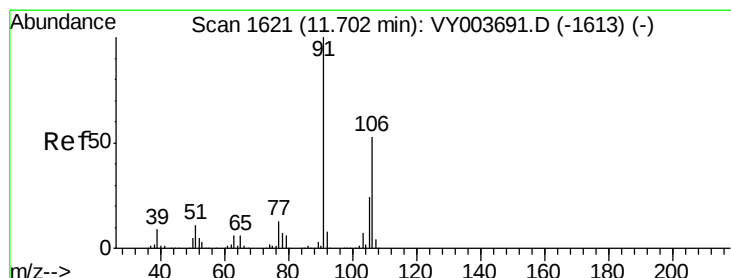
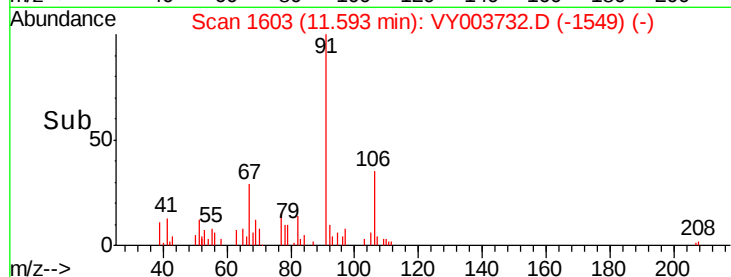
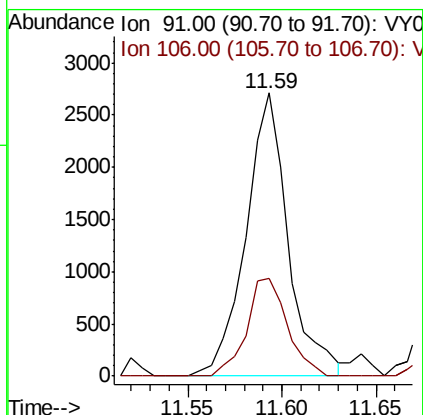
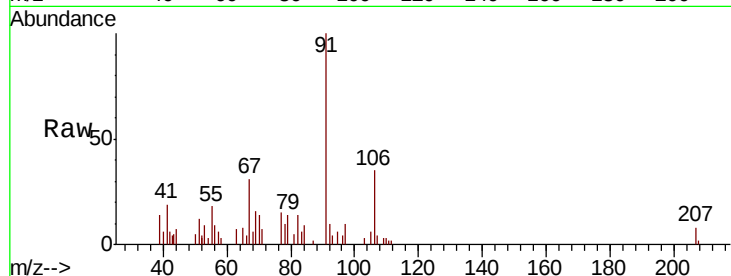




#53
Ethylbenzene
Concen: 0.298 ug/L
RT: 11.59 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VY003732.D
Acq: 11 Dec 2020 17:12

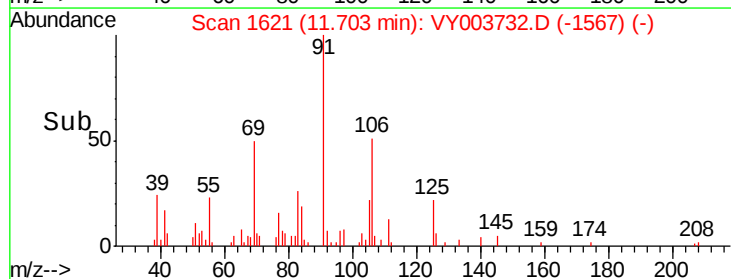
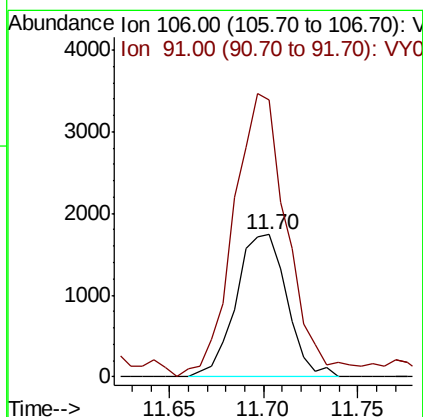
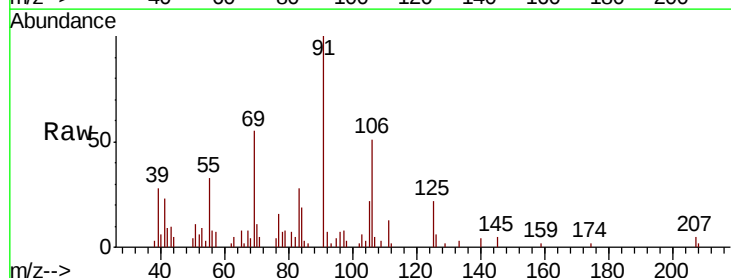
Instrument :
MSVOA_Y
ClientSampled :
C0AD6

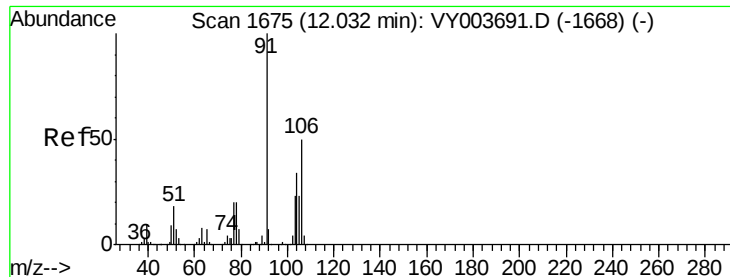
Tot Ion: 91 Resp: 4224
Ion Ratio Lower Upper
91 100
106 34.7 23.3 43.3



#54
m,p-Xylene
Concen: 0.597 ug/L
RT: 11.70 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VY003732.D
Acq: 11 Dec 2020 17:12

Tgt Ion: 106 Resp: 3263
Ion Ratio Lower Upper
106 100
91 194.7 131.3 243.9





#55

o-xylene

Concen: 0.655 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

Instrument :

MSVOA_Y

ClientSampleId :

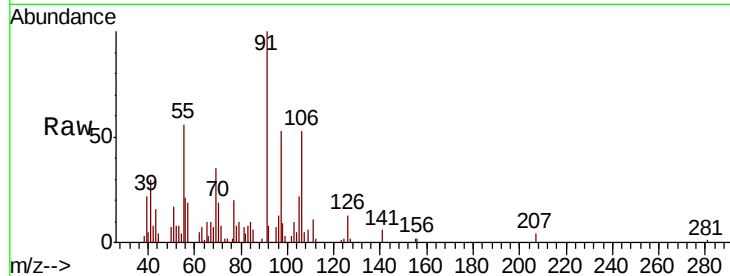
C0AD6

Tot Ion:106 Resp: 3433

Ion Ratio Lower Upper

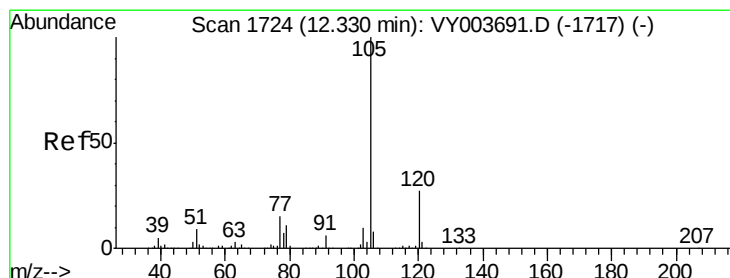
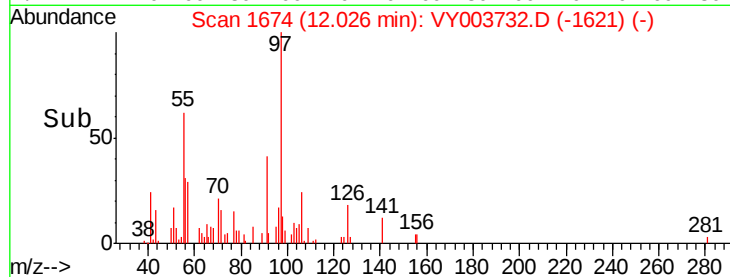
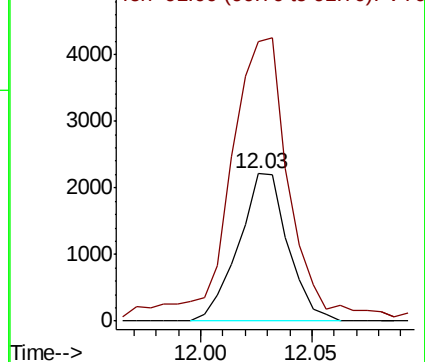
106 100

91 189.3 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#57

Isopropylbenzene

Concen: 0.723 ug/L

RT: 12.32 min Scan# 1723

Delta R.T. -0.01 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

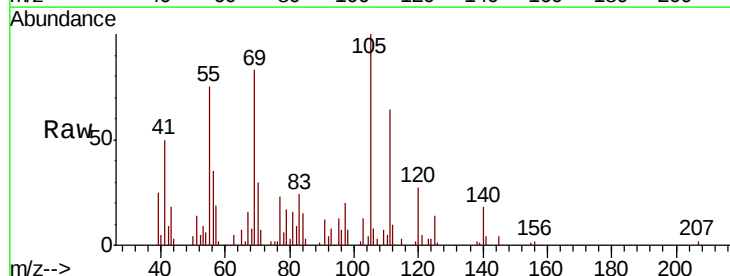
Tgt Ion:105 Resp: 9915

Ion Ratio Lower Upper

105 100

120 26.7 22.3 33.5

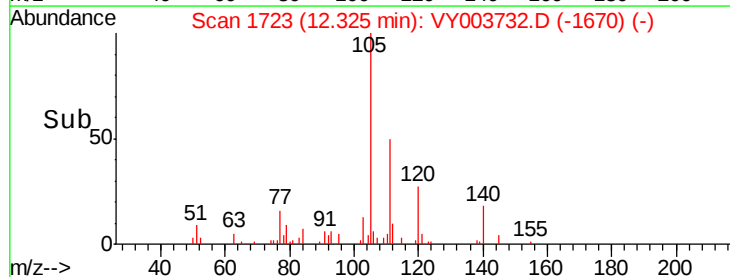
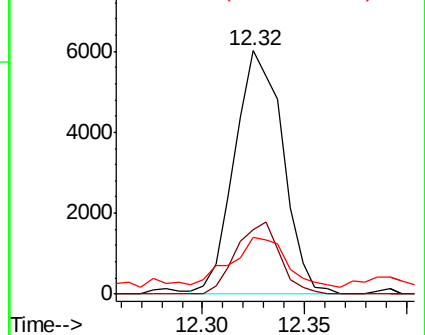
77 23.5 11.9 17.9#

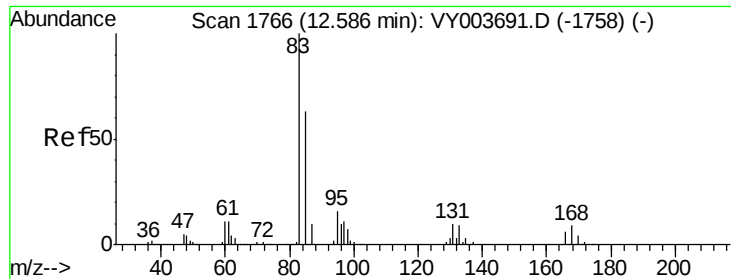


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VY0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.981 ug/L

RT: 12.56 min Scan# 1761

Delta R.T. -0.02 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

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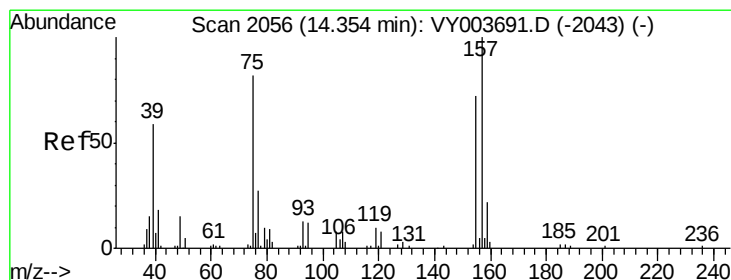
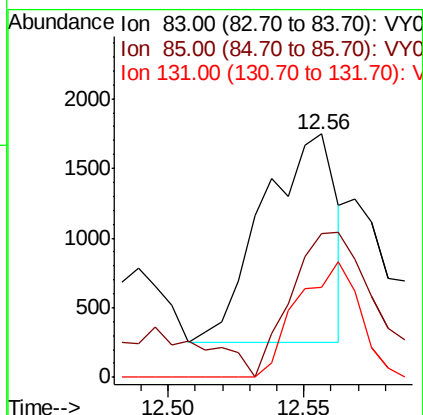
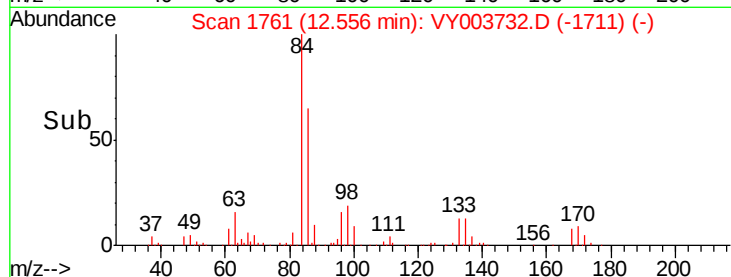
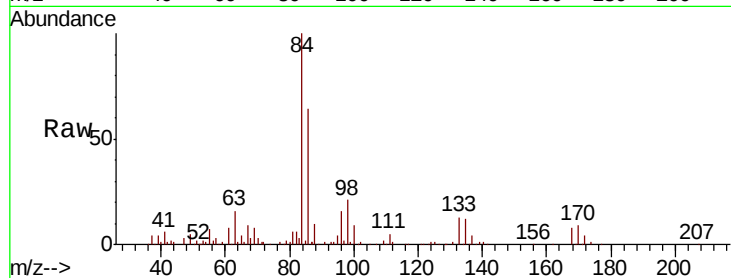
Tot Ion: 83 Resp: 2798

Ion Ratio Lower Upper

83 100

85 58.8 47.2 87.6

131 36.7 8.4 12.6#



#66

1,2-Dibromo-3-chloropropane

Concen: 25.950 ug/L

RT: 14.33 min Scan# 2052

Delta R.T. -0.02 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

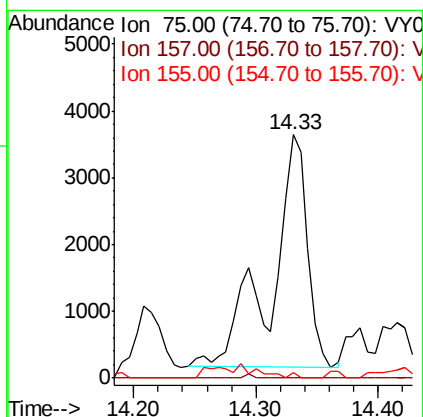
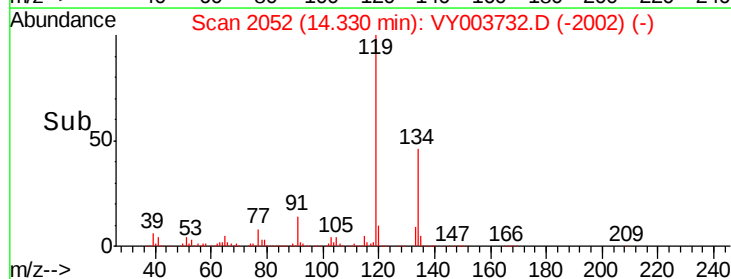
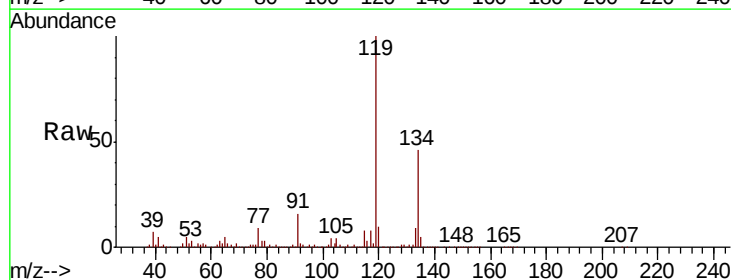
Tgt Ion: 75 Resp: 7205

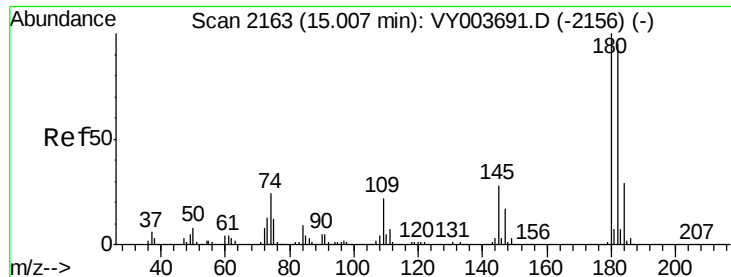
Ion Ratio Lower Upper

75 100

157 0.0 101.3 151.9#

155 2.1 76.2 114.4#





#68

1,2,4-trichlorobenzene

Concen: 0.459 ug/L

RT: 15.00 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

Instrument :

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ClientSampleId :

C0AD6

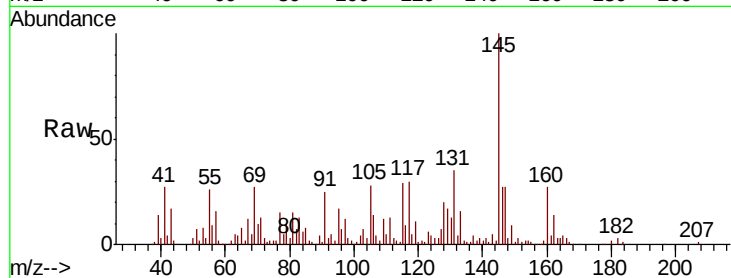
Tot Ion:180 Resp: 900

Ion Ratio Lower Upper

180 100

182 268.7 76.5 114.7#

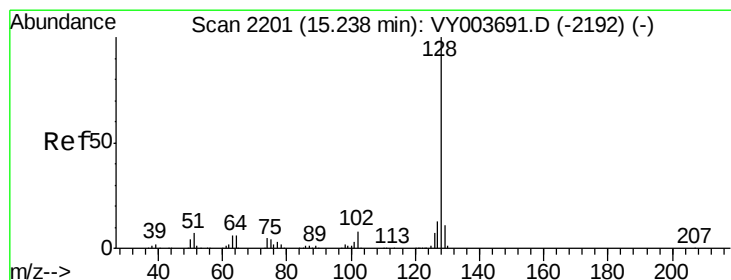
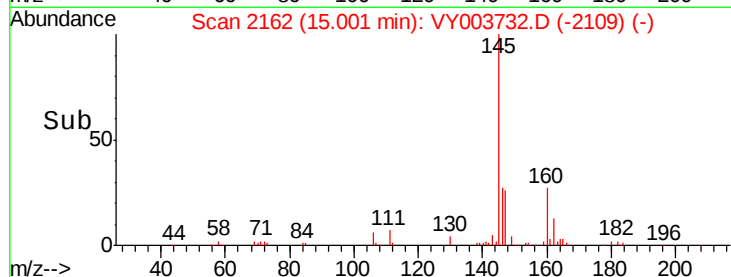
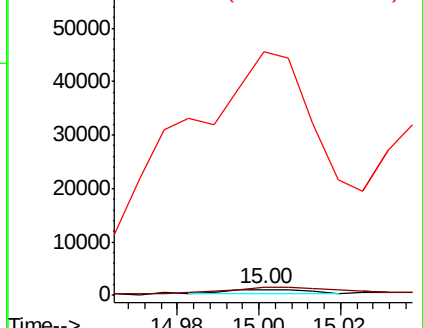
145 7792.4 22.2 33.4#



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



#69

Naphthalene

Concen: 62.618 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. -0.01 min

Lab File: VY003732.D

Acq: 11 Dec 2020 17:12

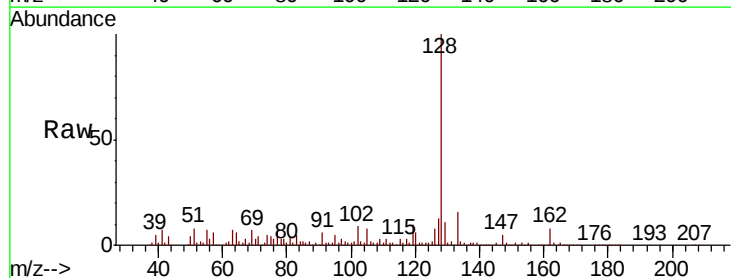
Tgt Ion:128 Resp: 257322

Ion Ratio Lower Upper

128 100

129 9.7 8.7 13.1

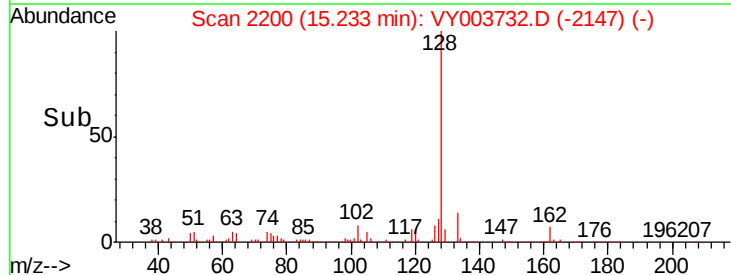
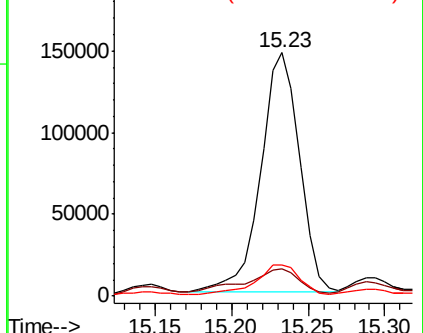
127 13.8 10.2 15.4

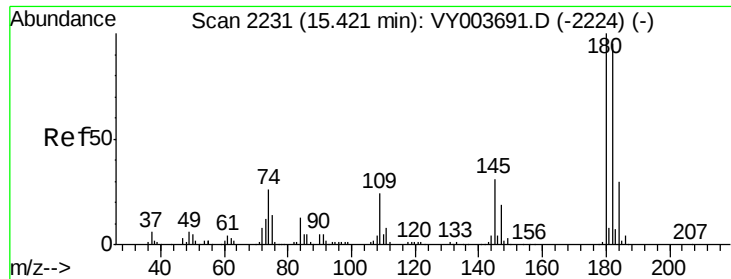


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

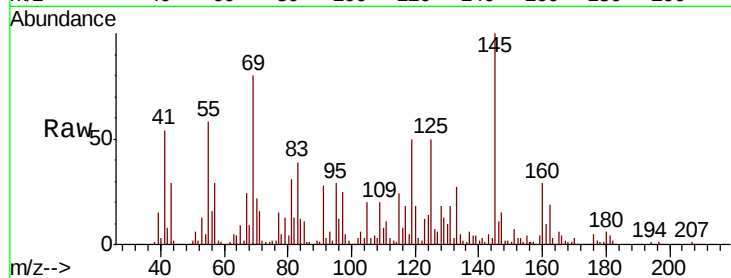




#70
 1,2,3-Trichlorobenzene
 Concen: 1.236 ug/L
 RT: 15.44 min Scan# 2234
 Delta R.T. 0.02 min
 Lab File: VY003732.D
 Acq: 11 Dec 2020 17:12

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD6

Tot Ion:180 Resp: 2213
 Ion Ratio Lower Upper
 180 100
 182 58.6 76.9 115.3#
 145 4463.1 24.2 36.4#



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

