

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030420\
 Data File : VY001856.D
 Acq On : 04 Mar 2020 16:12
 Operator : SY/MD
 Sample : L1759-01
 Misc : 7.81G/5ML/MSVOA Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-030320

Quant Time: Mar 05 04:10:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	151459	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	287406	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.50	117	260562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	106706	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	92967	57.50	ug/l	-0.01
Spiked Amount			Recovery	=	115.00%	
35) Dibromofluoromethane	7.74	113	84937	54.12	ug/l	-0.01
Spiked Amount			Recovery	=	108.24%	
50) Toluene-d8	10.19	98	350858	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.48	95	117019	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	

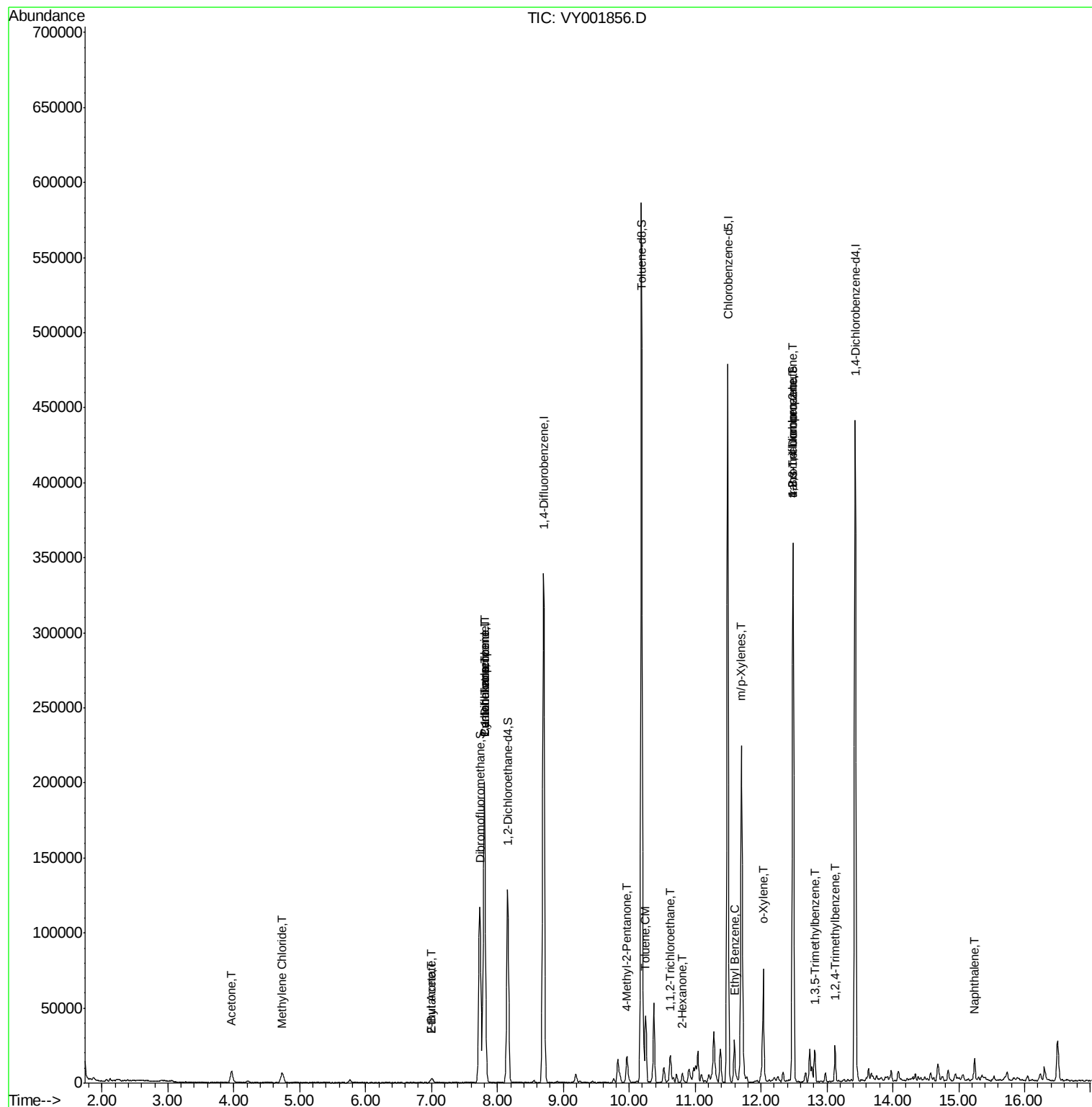
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.67	94	99	Below Cal		85
11) Tert butyl alcohol	4.97	59	132	Below Cal	#	74
16) Acetone	3.96	43	13546	28.763	ug/l	93
20) Methylene Chloride	4.73	84	4889	2.422	ug/l	95
25) 2-Butanone	7.01	43	2934	4.097	ug/l #	63
31) Cyclohexane	7.80	56	3735	1.051	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	12777	4.620	ug/l #	49
37) Ethyl Acetate	7.01	43	2934	1.825	ug/l #	86
38) Carbon Tetrachloride	7.80	117	15701	6.646	ug/l #	17
51) 4-Methyl-2-Pentanone	9.97	43	8148	5.198	ug/l #	39
52) Toluene	10.25	92	18586	3.732	ug/l	95
55) 1,1,2-Trichloroethane	10.63	97	6993	4.500	ug/l #	20
59) 2-Hexanone	10.81	43	2998	2.680	ug/l #	26
67) Ethyl Benzene	11.60	91	18363	1.896	ug/l	95
68) m/p-Xylenes	11.70	106	60736	16.966	ug/l	97
69) o-Xylene	12.03	106	18698	5.542	ug/l	98
76) 1,2,3-Trichloropropane	12.48	75	58516	46.216	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	8795	1.312	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.48	75	58516	93.354	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.12	105	12479	1.875	ug/l	97
95) Naphthalene	15.24	128	10822	2.290	ug/l	97

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

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Quant Title : SW846 8260
QLast Update : Thu Mar 05 04:05:33 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

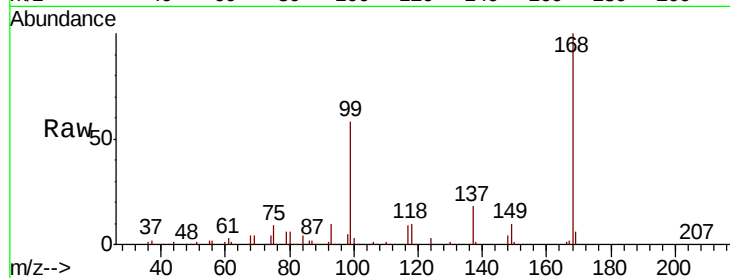
OR-02-030320

Tot Ion:168 Resp: 151459

Ion Ratio Lower Upper

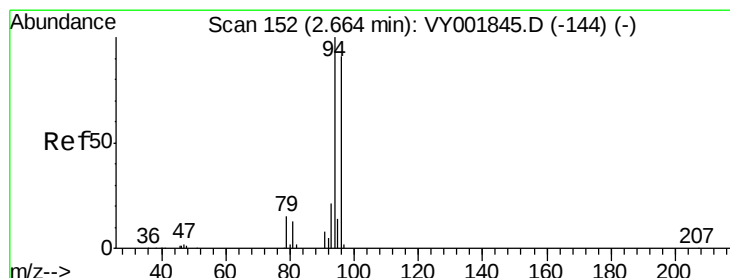
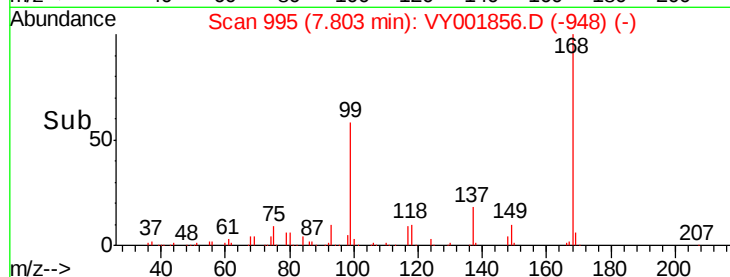
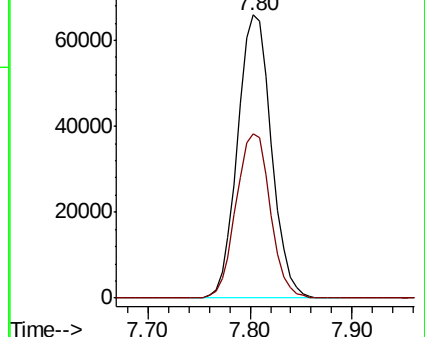
168 100

99 58.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.67 min Scan# 153

Delta R.T. 0.01 min

Lab File: VY001856.D

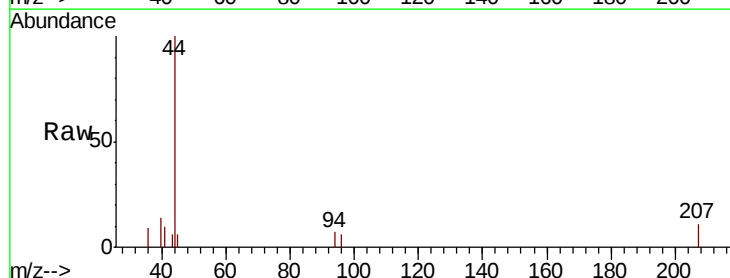
Acq: 04 Mar 2020 16:12

Tgt Ion: 94 Resp: 99

Ion Ratio Lower Upper

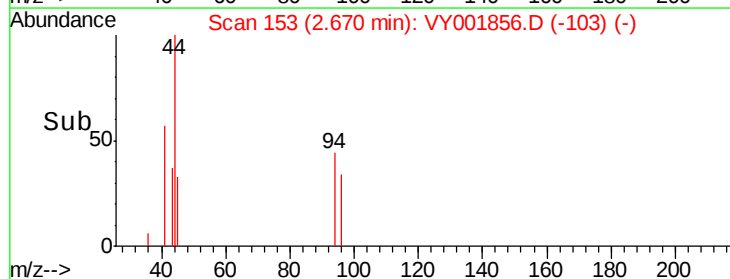
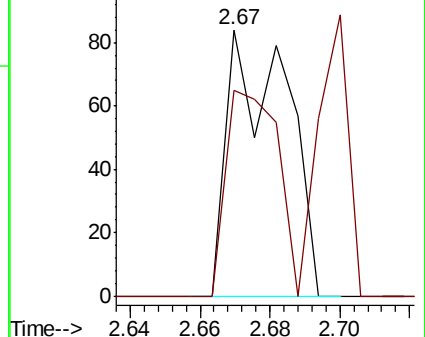
94 100

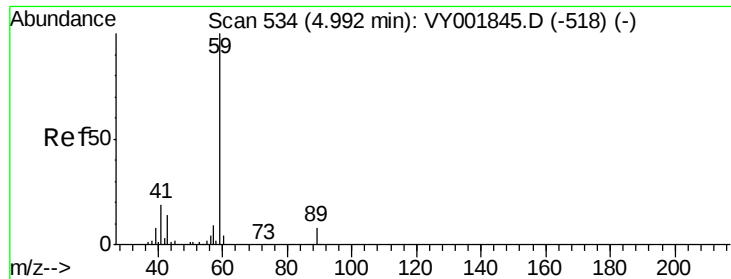
96 77.4 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)

Ion 95.90 (95.60 to 96.60): VY001845.D (-144) (-)

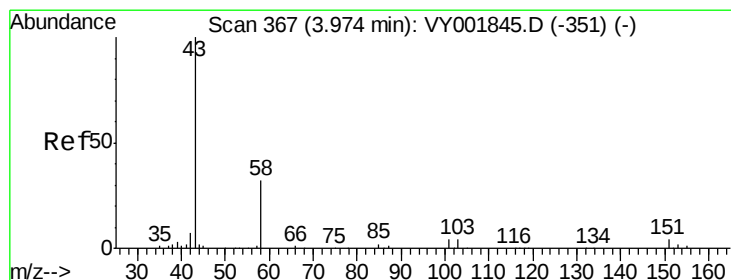
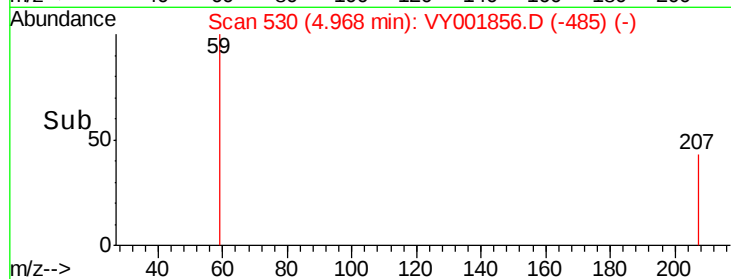
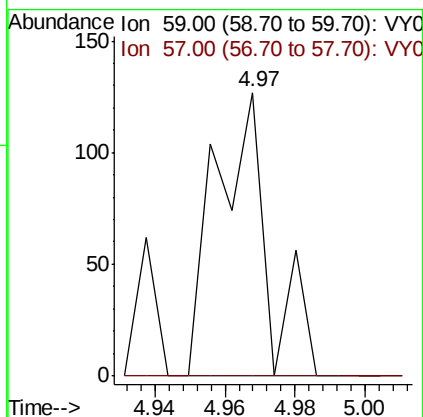
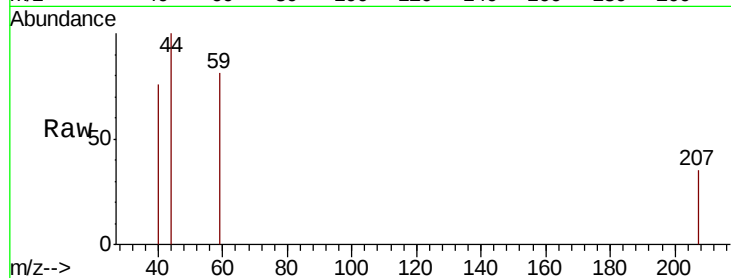




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.97 min Scan# 530
Delta R.T. -0.02 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

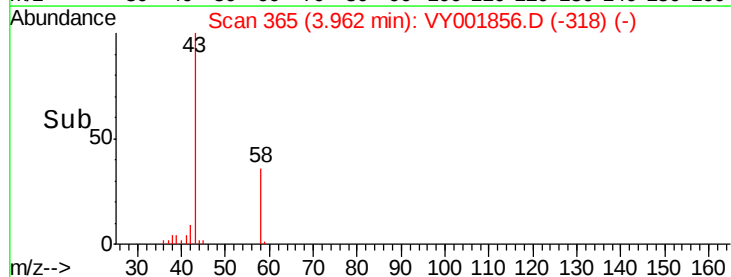
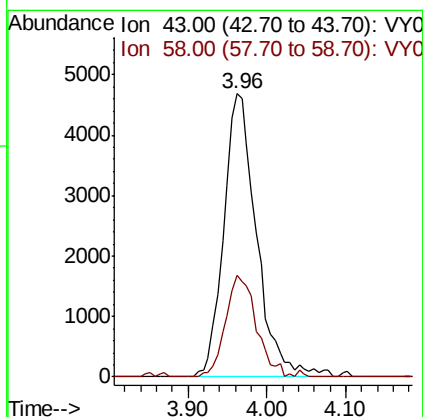
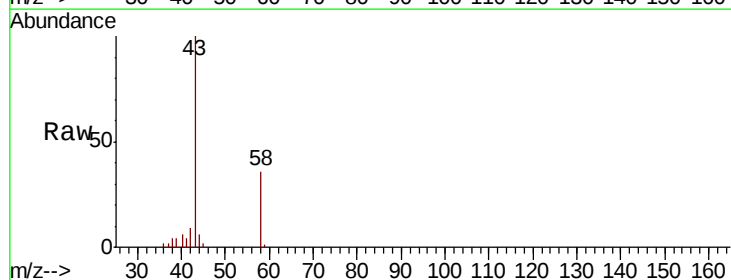
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

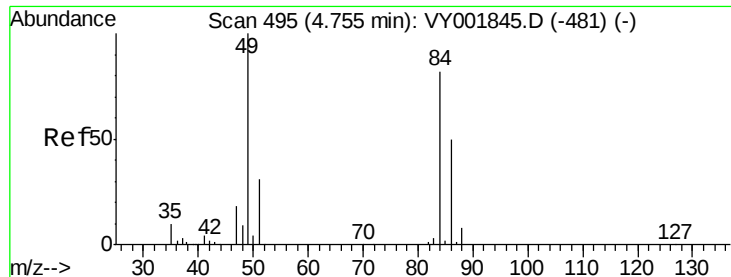
Tot Ion: 59 Resp: 132
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#16
Acetone
Concen: 28.763 ug/l
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion: 43 Resp: 13546
Ion Ratio Lower Upper
43 100
58 36.1 25.9 38.9

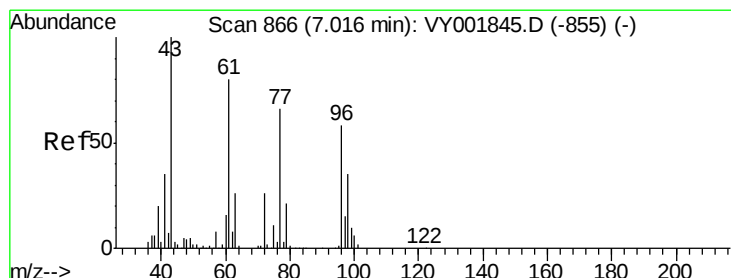
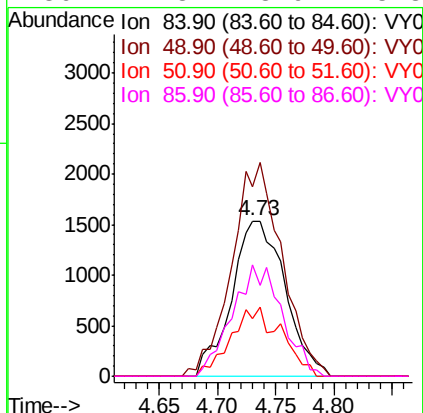
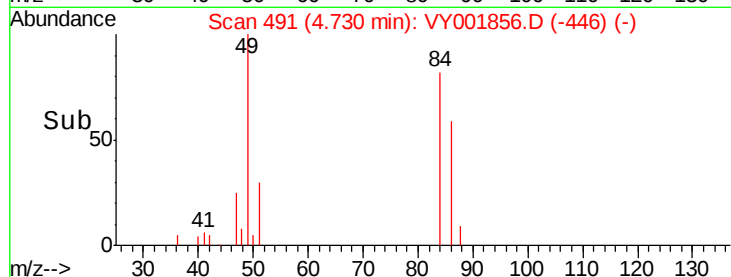
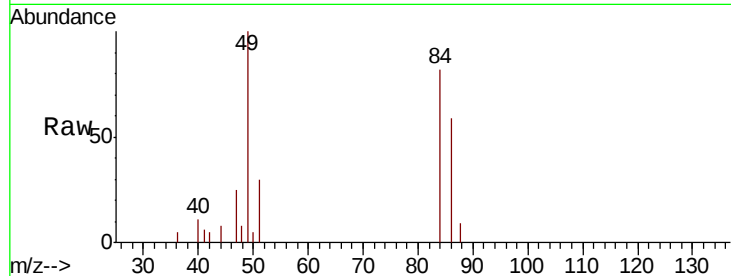




#20
Methylene Chloride
Concen: 2.422 ug/l
RT: 4.73 min Scan# 491
Delta R.T. -0.02 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

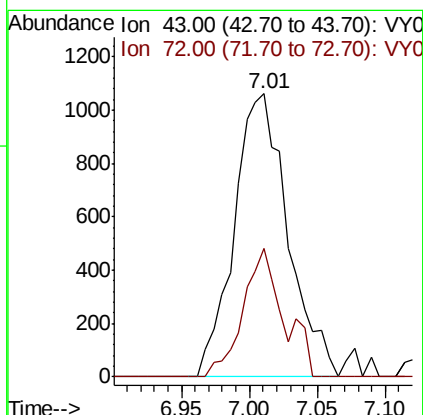
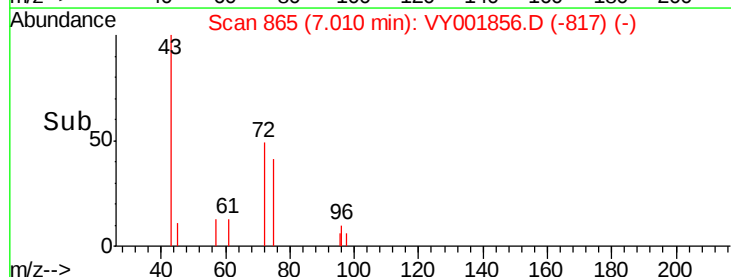
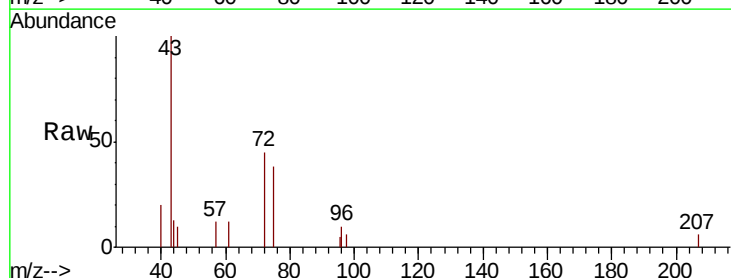
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

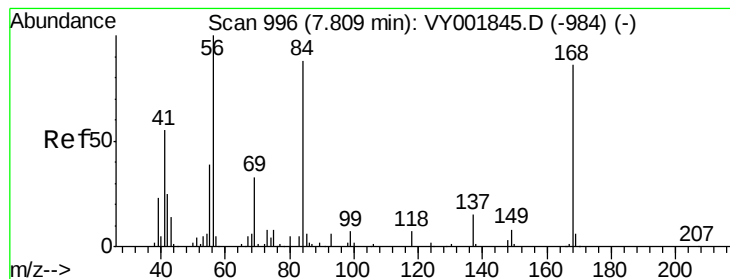
Tot Ion: 84 Resp: 4889
Ion Ratio Lower Upper
84 100
49 121.7 98.2 147.2
51 37.0 30.2 45.2
86 71.8 48.9 73.3



#25
2-Butanone
Concen: 4.097 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion: 43 Resp: 2934
Ion Ratio Lower Upper
43 100
72 45.2 20.9 31.3#





#31

Cyclohexane

Concen: 1.051 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-030320

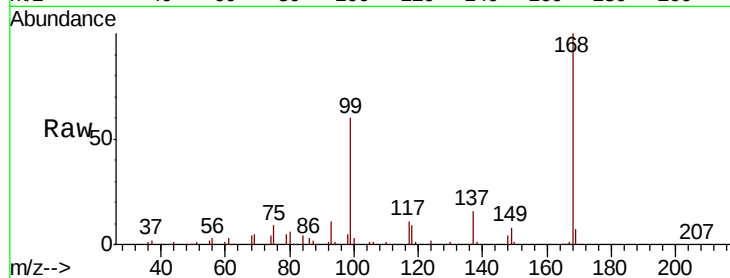
Tot Ion: 56 Resp: 3735

Ion Ratio Lower Upper

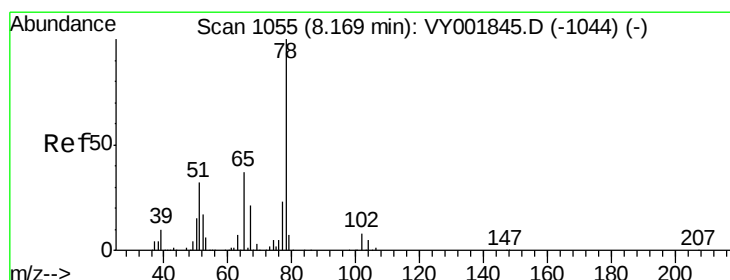
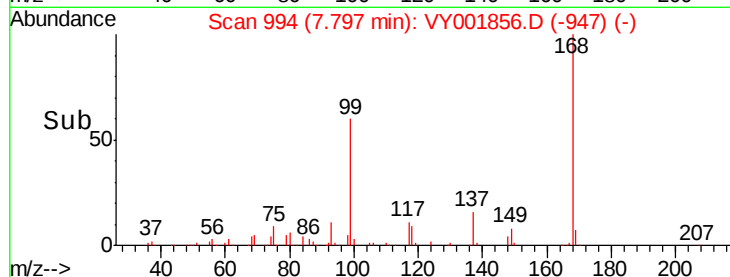
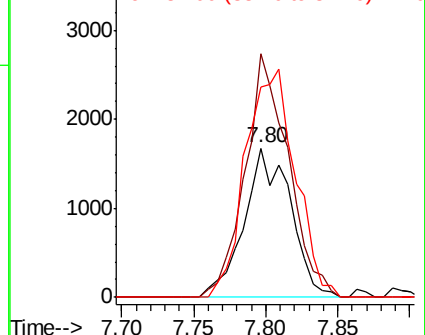
56 100

69 163.1 26.7 40.1#

84 140.6 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 57.496 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY001856.D

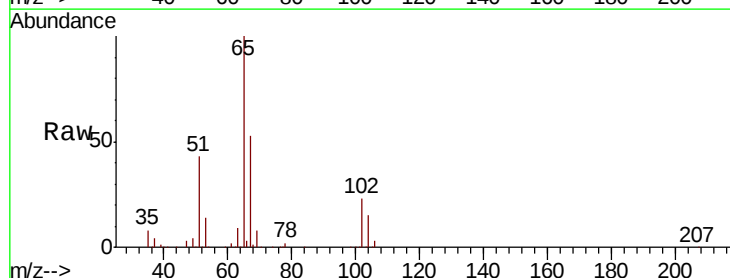
Acq: 04 Mar 2020 16:12

Tgt Ion: 65 Resp: 92967

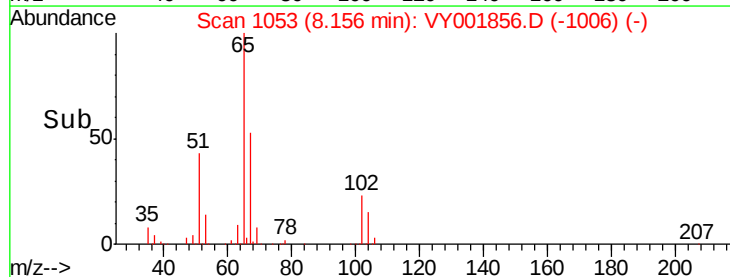
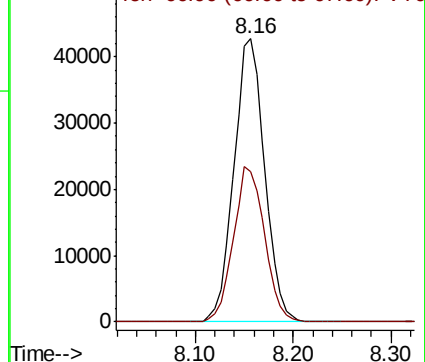
Ion Ratio Lower Upper

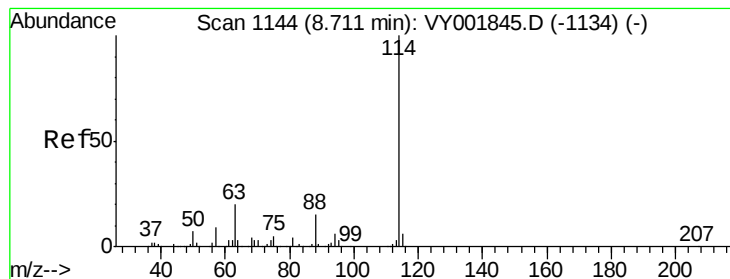
65 100

67 55.4 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

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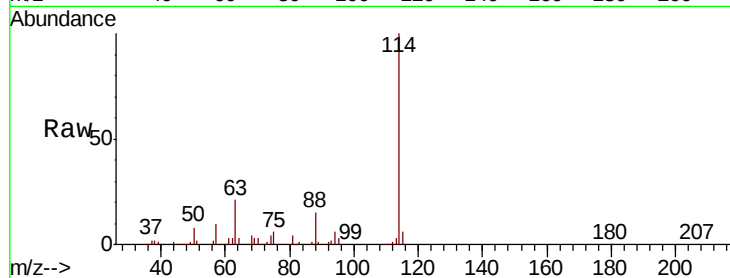
Tot Ion:114 Resp: 287406

Ion Ratio Lower Upper

114 100

63 21.4 0.0 39.4

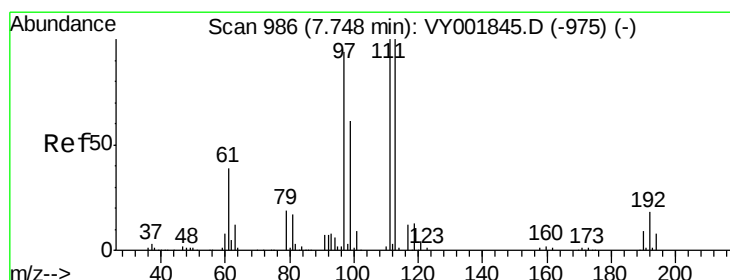
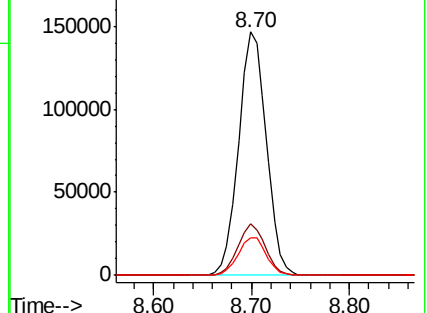
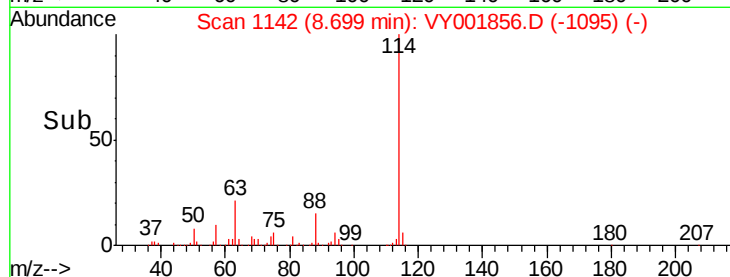
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 54.122 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

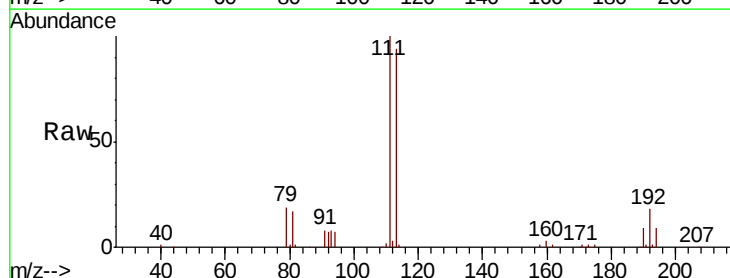
Tgt Ion:113 Resp: 84937

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

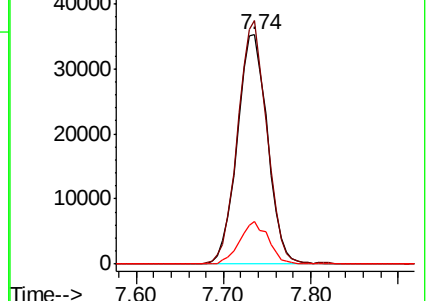
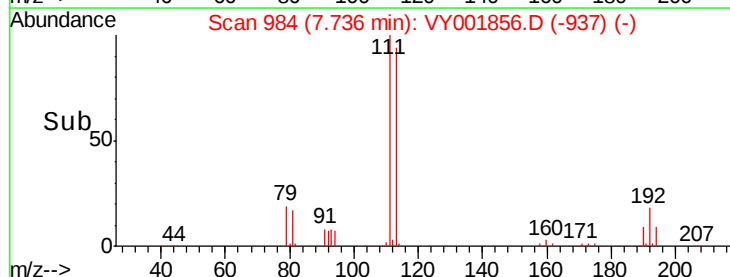
192 17.8 14.2 21.2

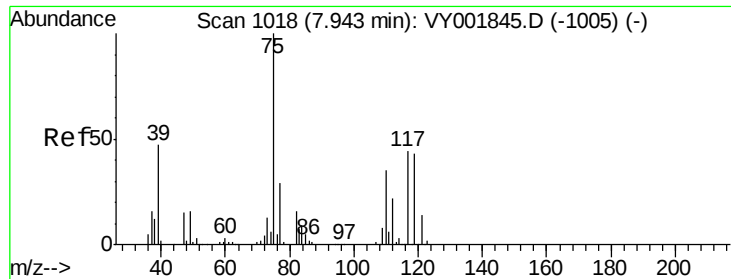


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

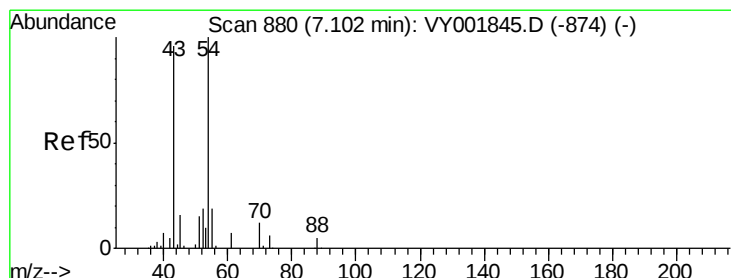
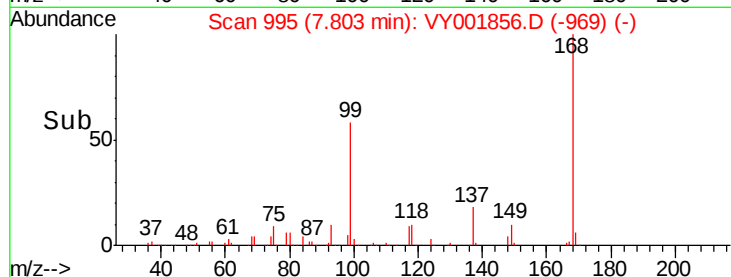
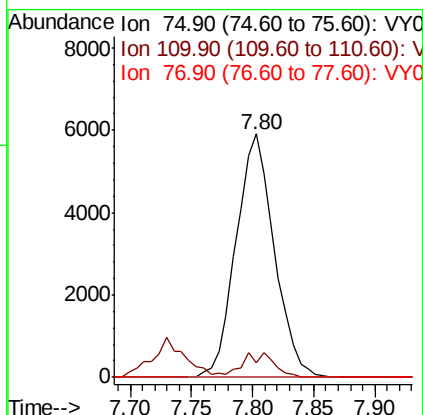
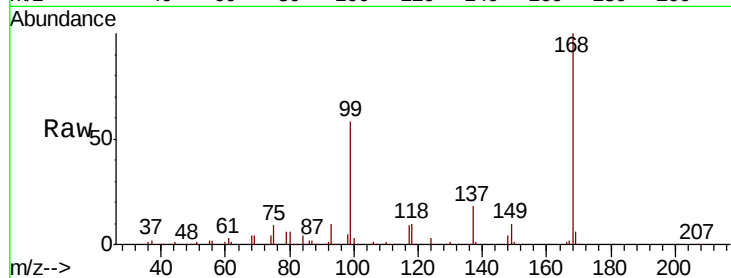




#36
 1,1-Dichloropropene
 Concen: 4.620 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.14 min
 Lab File: VY001856.D
 Acq: 04 Mar 2020 16:12

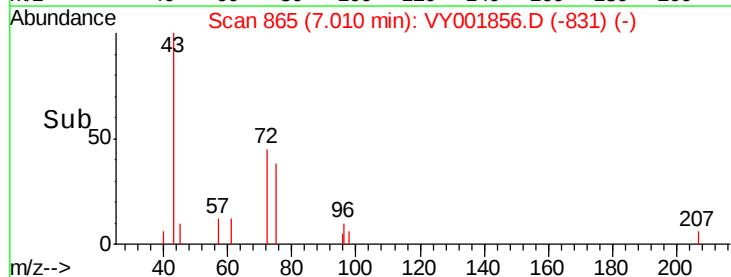
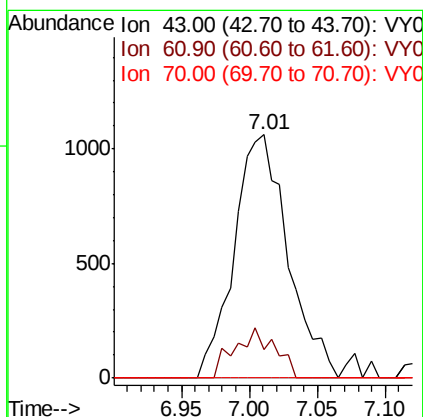
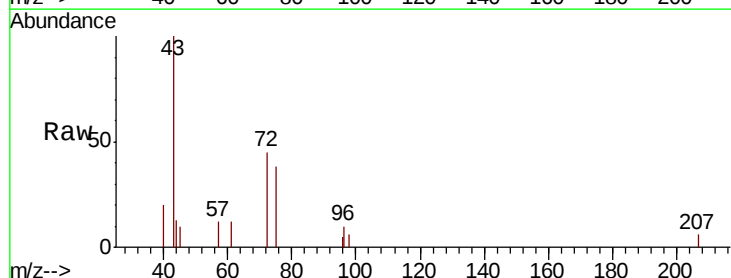
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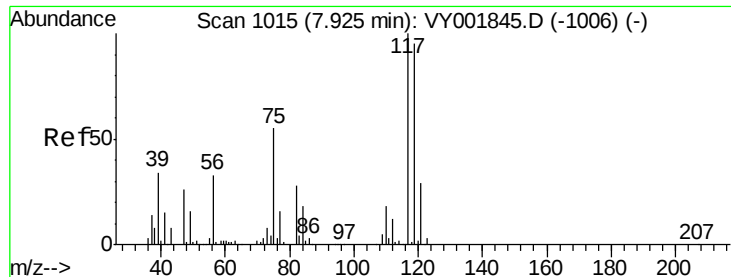
Tot Ion: 75 Resp: 12777
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.4 52.2#
 77 0.0 24.2 36.2#



#37
 Ethyl Acetate
 Concen: 1.825 ug/l
 RT: 7.01 min Scan# 865
 Delta R.T. -0.09 min
 Lab File: VY001856.D
 Acq: 04 Mar 2020 16:12

Tgt Ion: 43 Resp: 2934
 Ion Ratio Lower Upper
 43 100
 61 15.2 11.1 16.7
 70 0.0 8.2 12.4#

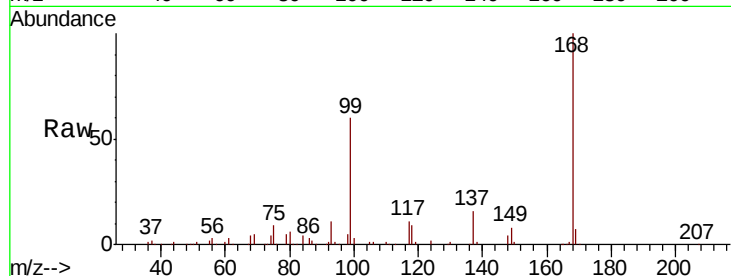




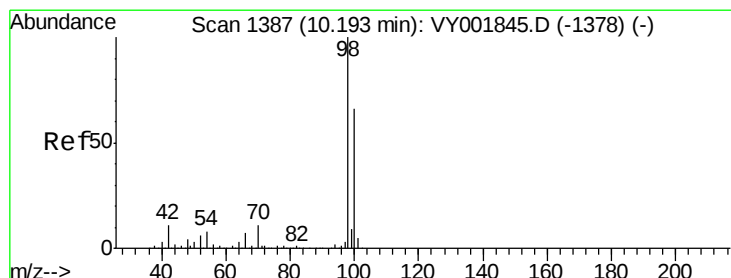
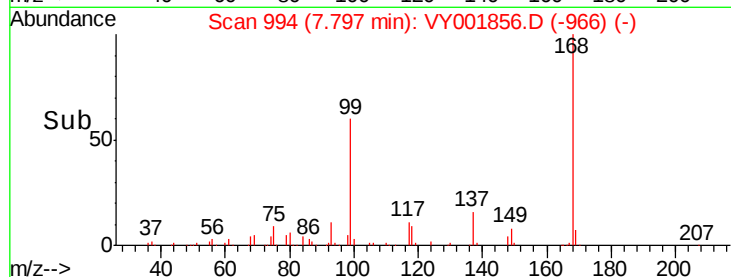
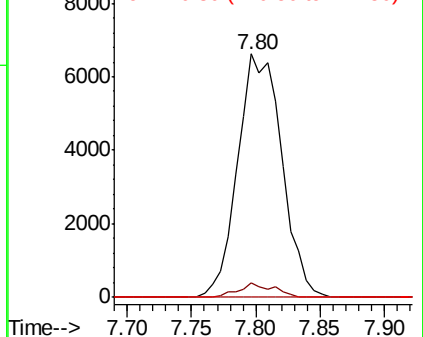
#38
Carbon Tetrachloride
Concen: 6.646 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.13 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

Tot Ion:117 Resp: 15701
Ion Ratio Lower Upper
117 100
119 6.0 76.3 114.5#
121 0.0 23.5 35.3#

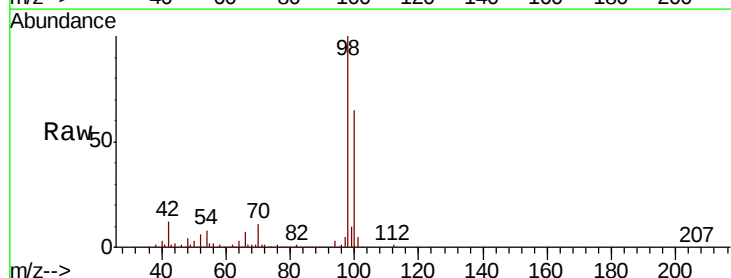


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

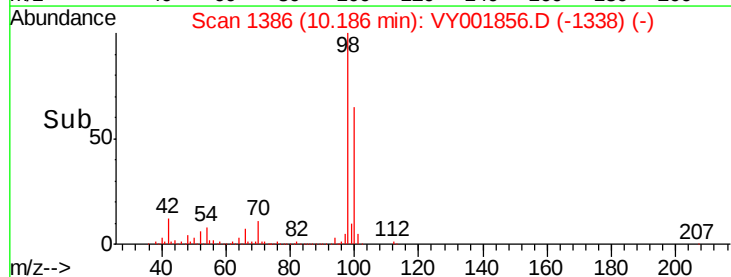
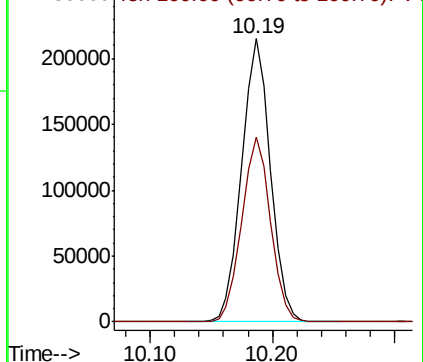


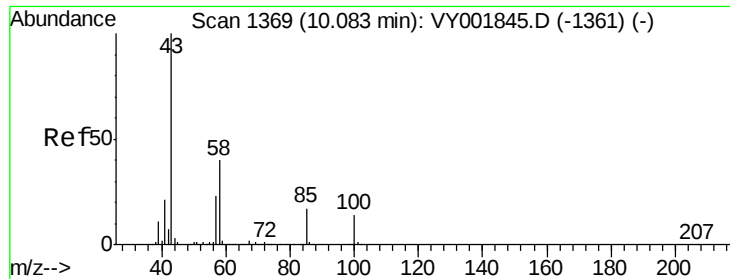
#50
Toluene-d8
Concen: 53.018 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion: 98 Resp: 350858
Ion Ratio Lower Upper
98 100
100 65.5 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY

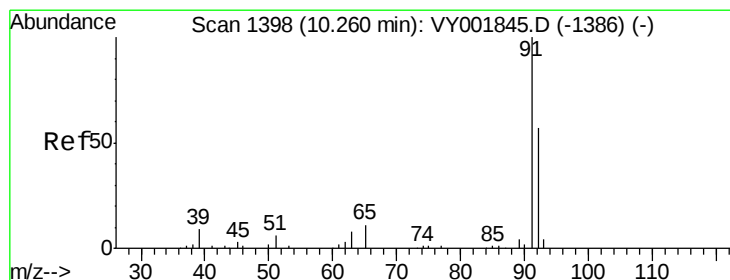
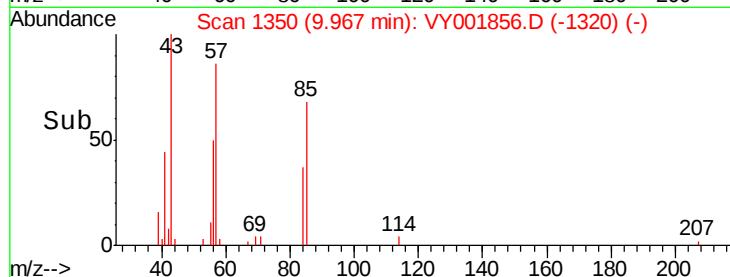
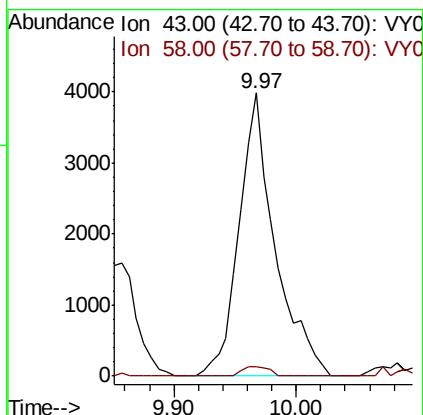
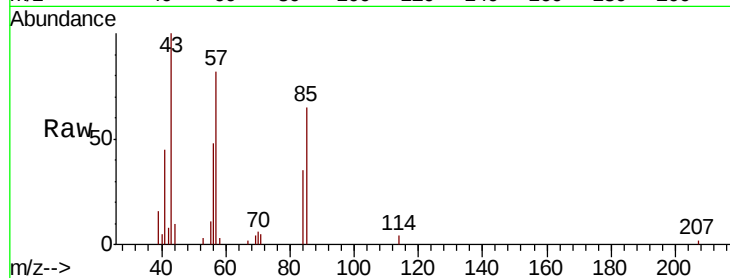




#51
4-Methyl-2-Pentanone
Concen: 5.198 ug/l
RT: 9.97 min Scan# 1350
Delta R.T. -0.12 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

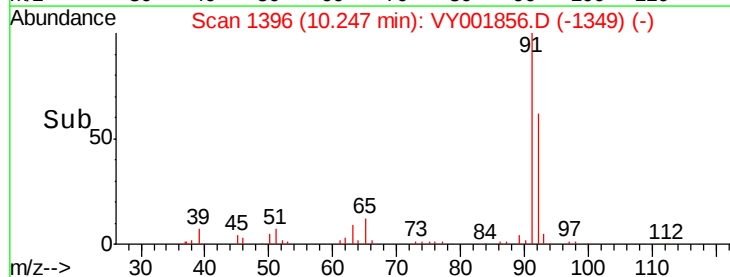
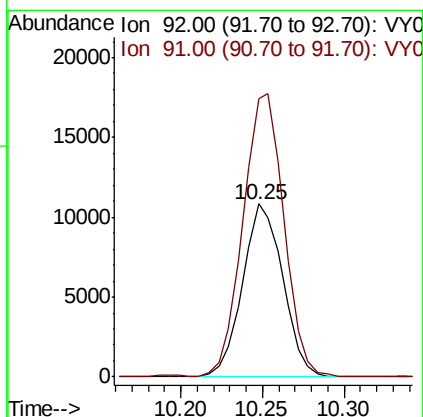
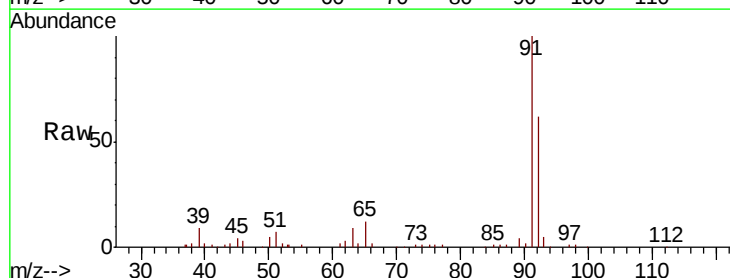
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

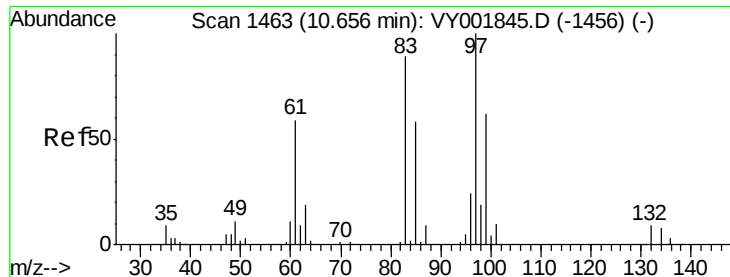
Tot Ion: 43 Resp: 8148
Ion Ratio Lower Upper
43 100
58 2.5 32.0 48.0#



#52
Toluene
Concen: 3.732 ug/l
RT: 10.25 min Scan# 1396
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion: 92 Resp: 18586
Ion Ratio Lower Upper
92 100
91 166.6 138.6 208.0





#55

1,1,2-Trichloroethane

Concen: 4.500 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.03 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampled :

OR-02-030320

Tot Ion: 97 Resp: 6993

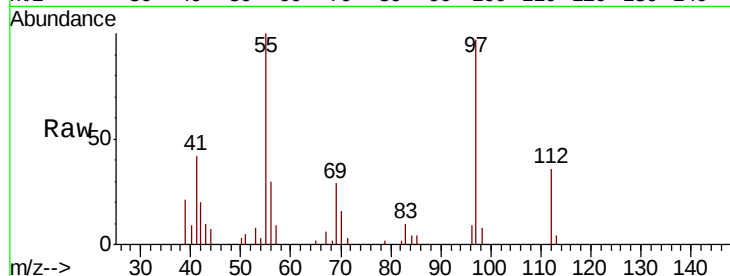
Ion Ratio Lower Upper

97 100

83 10.8 71.6 107.4#

85 4.2 46.6 69.8#

99 0.0 49.8 74.6#

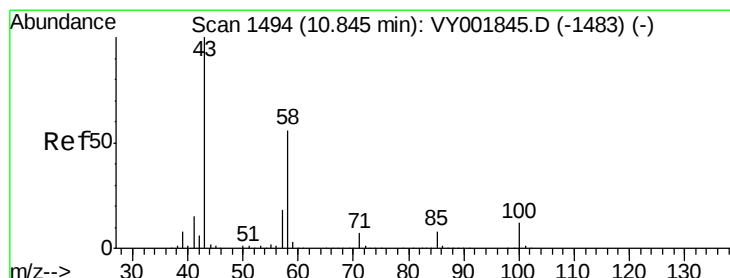
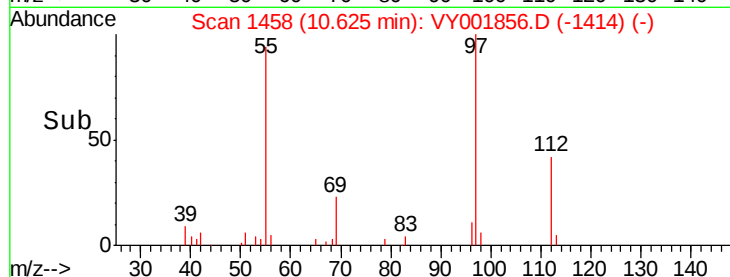
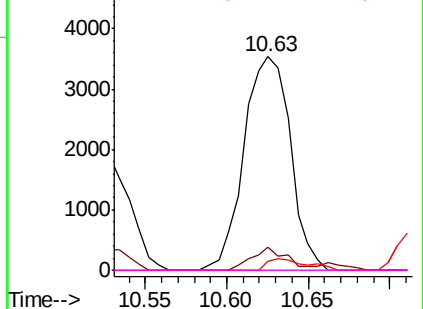


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#59

2-Hexanone

Concen: 2.680 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.04 min

Lab File: VY001856.D

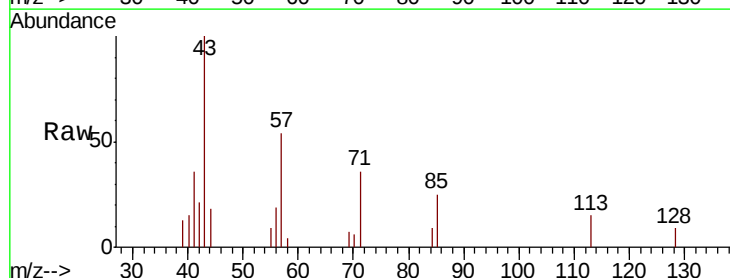
Acq: 04 Mar 2020 16:12

Tgt Ion: 43 Resp: 2998

Ion Ratio Lower Upper

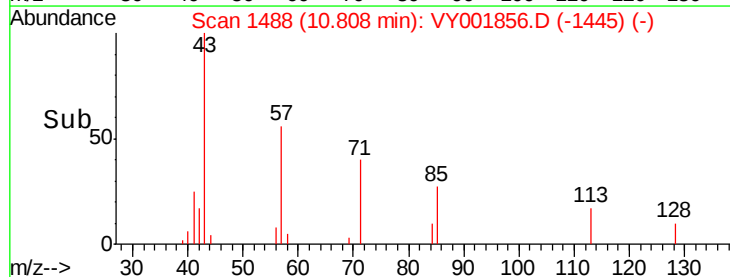
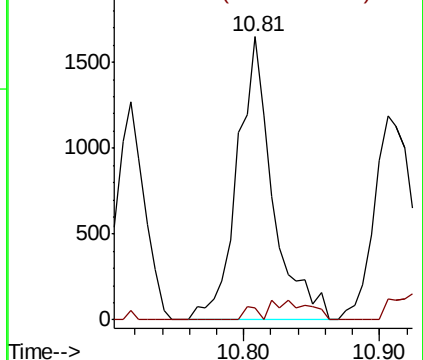
43 100

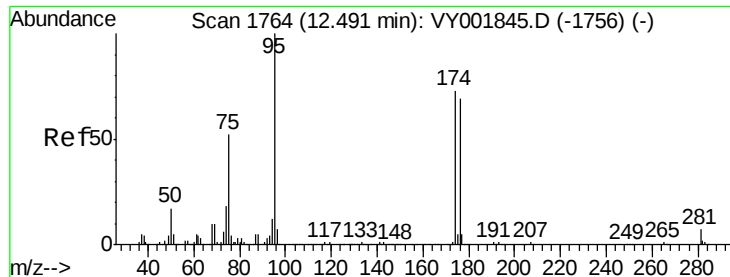
58 1.9 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

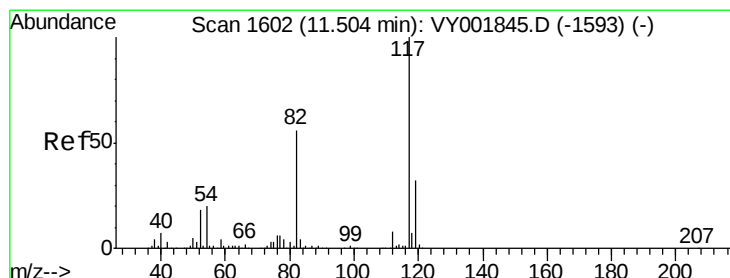
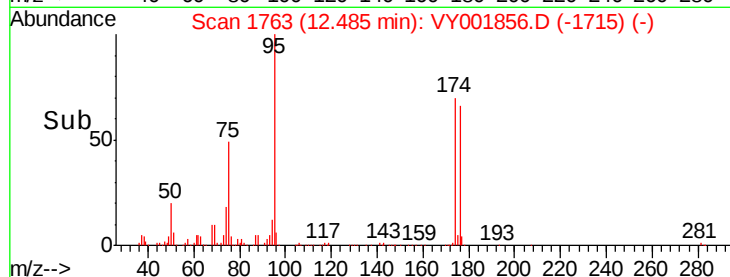
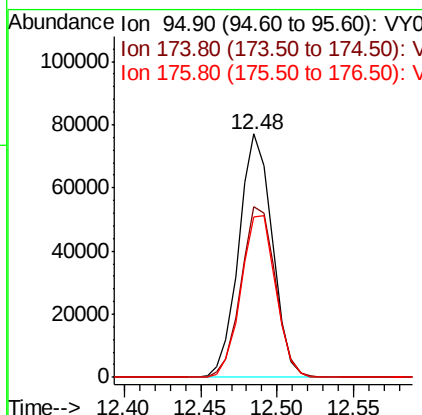
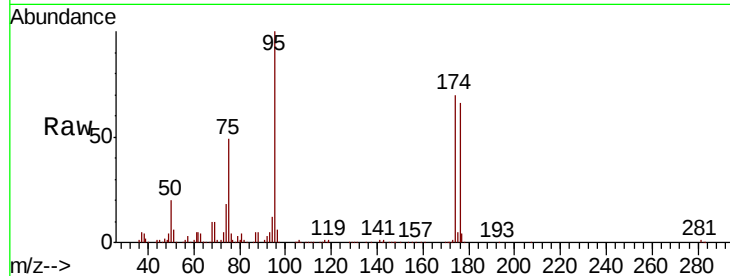




#62
4-Bromofluorobenzene
Concen: 50.854 ug/l
RT: 12.48 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

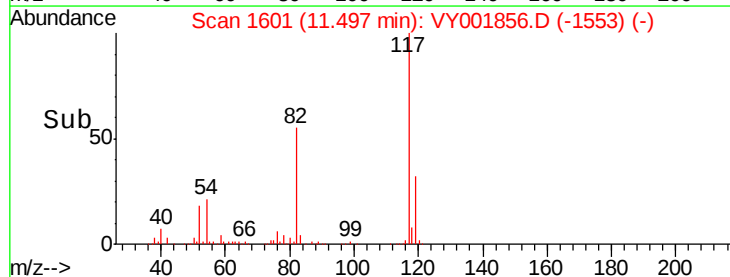
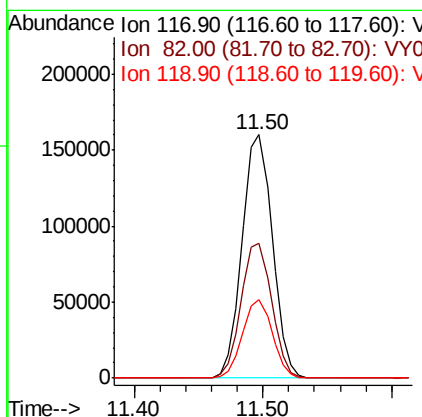
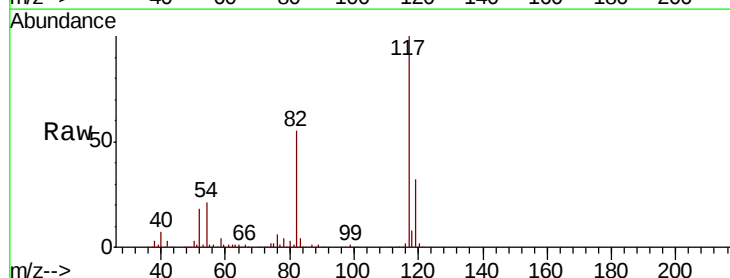
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

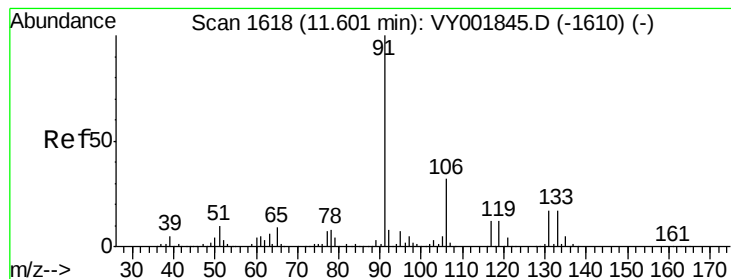
Tot Ion: 95 Resp: 117019
Ion Ratio Lower Upper
95 100
174 72.2 0.0 145.0
176 69.0 0.0 137.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion: 117 Resp: 260562
Ion Ratio Lower Upper
117 100
82 55.3 44.5 66.7
119 32.1 25.7 38.5





#67

Ethyl Benzene

Concen: 1.896 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

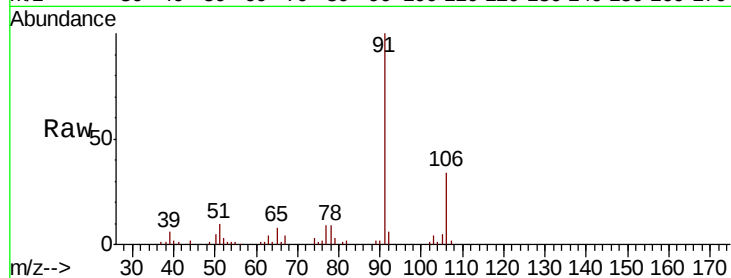
OR-02-030320

Tot Ion: 91 Resp: 18363

Ion Ratio Lower Upper

91 100

106 34.4 25.4 38.2



Abundance Ion 91.00 (90.70 to 91.70): VY001845.D (-1610) (-)

Ion 106.00 (105.70 to 106.70): VY001845.D (-1610) (-)

80000

60000

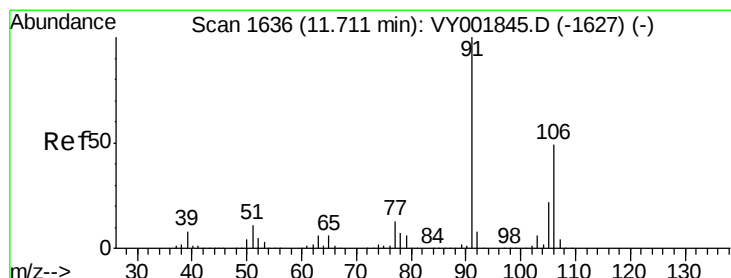
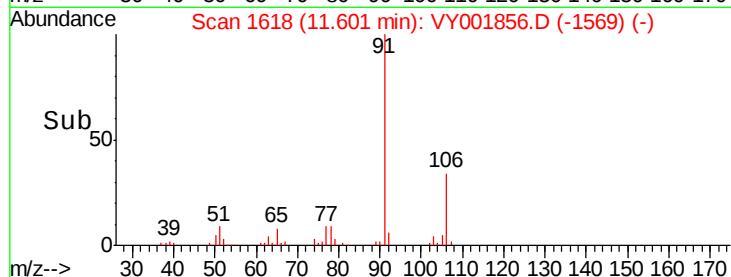
40000

20000

0

11.55 11.60 11.65

Time-->



#68

m/p-Xylenes

Concen: 16.966 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY001856.D

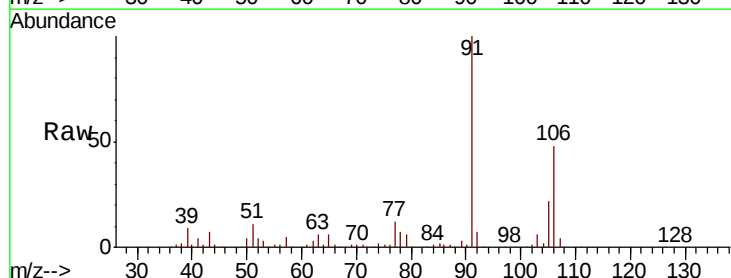
Acq: 04 Mar 2020 16:12

Tgt Ion: 106 Resp: 60736

Ion Ratio Lower Upper

106 100

91 206.1 161.3 241.9



Abundance Ion 106.00 (105.70 to 106.70): VY001845.D (-1627) (-)

Ion 91.00 (90.70 to 91.70): VY001845.D (-1627) (-)

80000

60000

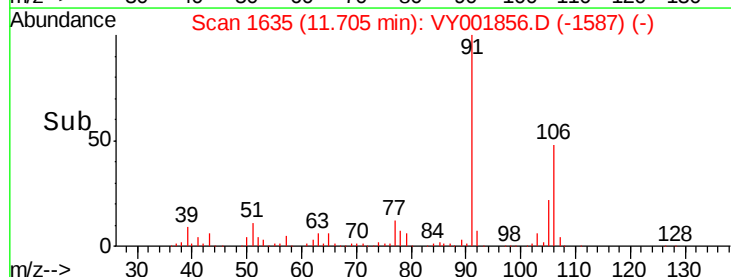
40000

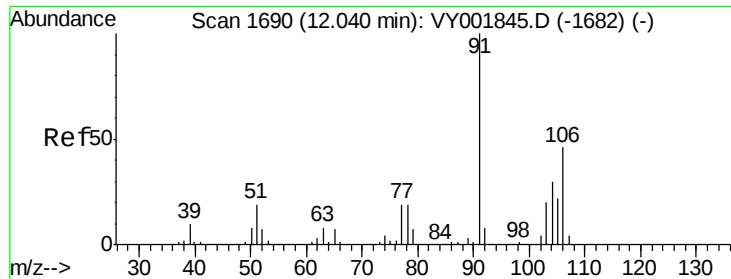
20000

0

11.60 11.65 11.70 11.75

Time-->

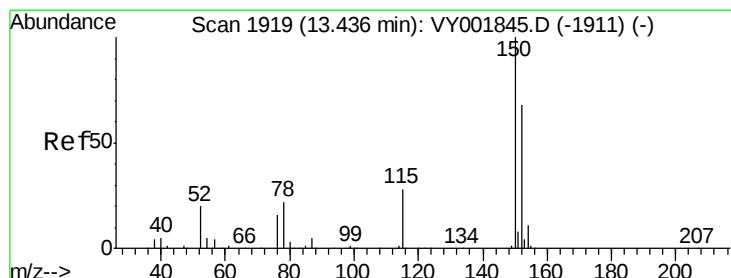
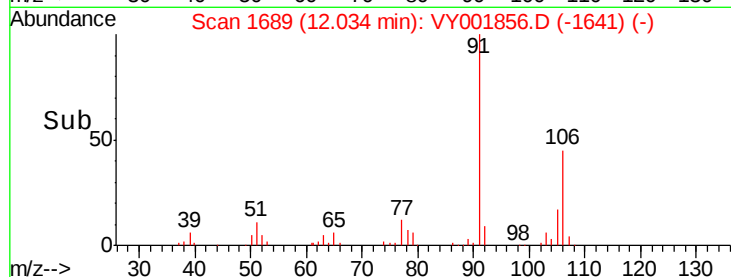
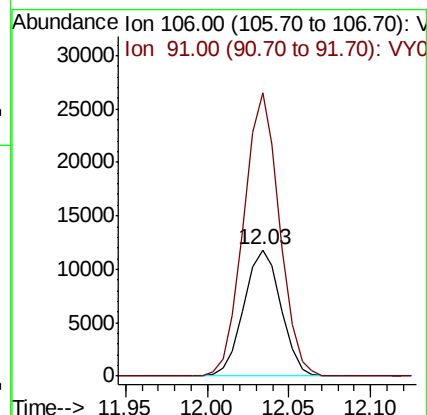
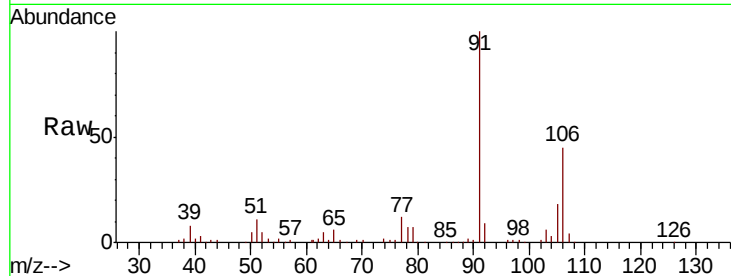




#69
o-Xylene
Concen: 5.542 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

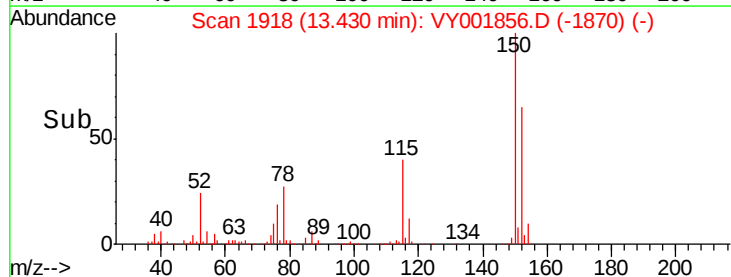
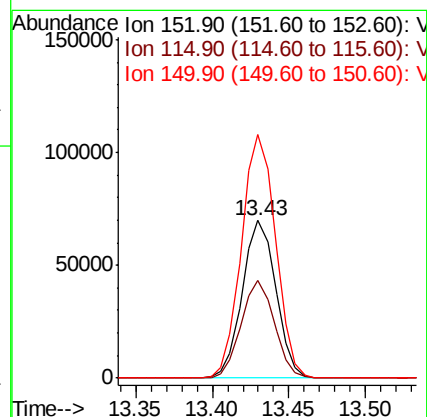
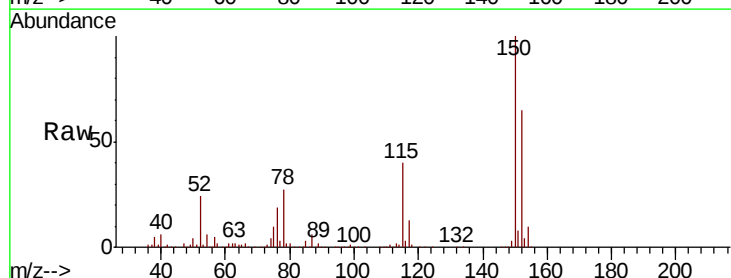
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-030320

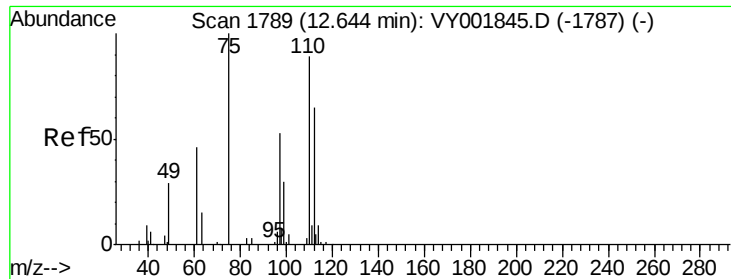
Tot Ion:106 Resp: 18698
Ion Ratio Lower Upper
106 100
91 217.1 106.8 320.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001856.D
Acq: 04 Mar 2020 16:12

Tgt Ion:152 Resp: 106706
Ion Ratio Lower Upper
152 100
115 61.3 29.9 89.7
150 157.0 0.0 340.6





#76

1,2,3-Trichloropropane

Concen: 46.216 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

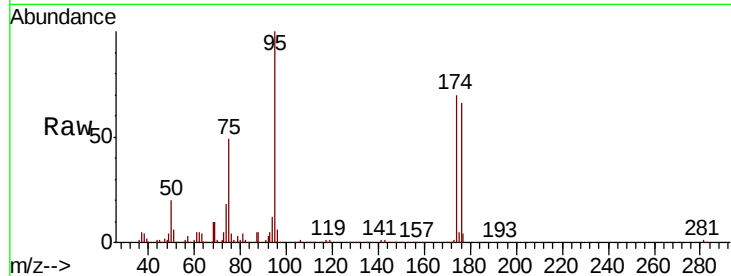
OR-02-030320

Tot Ion: 75 Resp: 58516

Ion Ratio Lower Upper

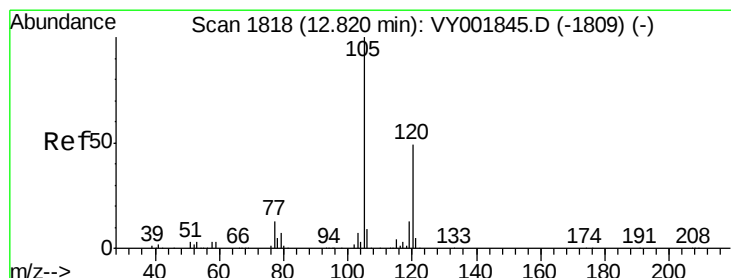
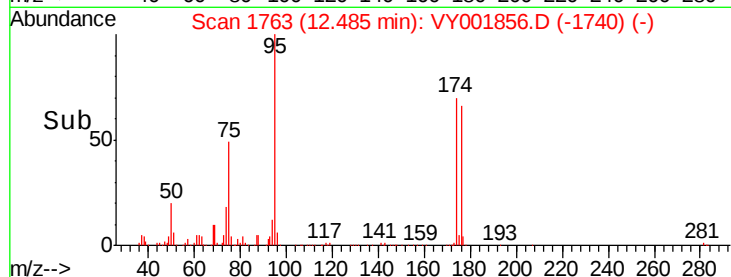
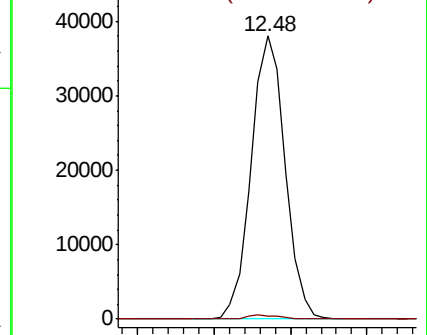
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#80

1,3,5-Trimethylbenzene

Concen: 1.312 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001856.D

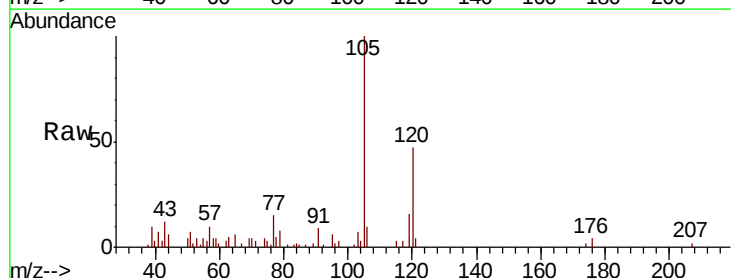
Acq: 04 Mar 2020 16:12

Tgt Ion:105 Resp: 8795

Ion Ratio Lower Upper

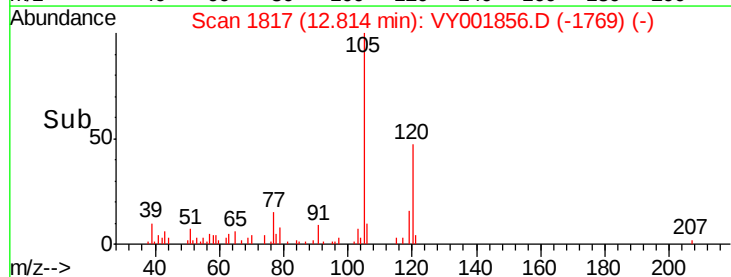
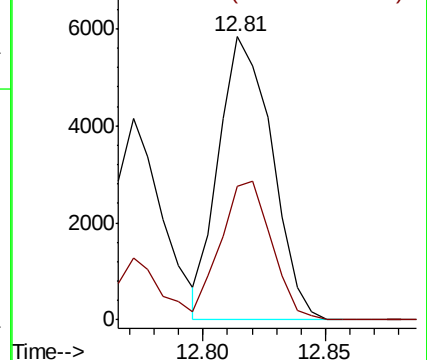
105 100

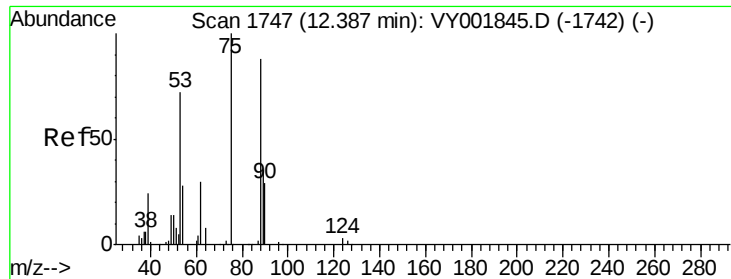
120 47.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 93.354 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-030320

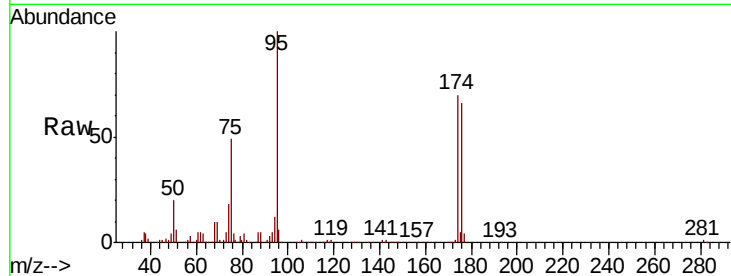
Tot Ion: 75 Resp: 58516

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

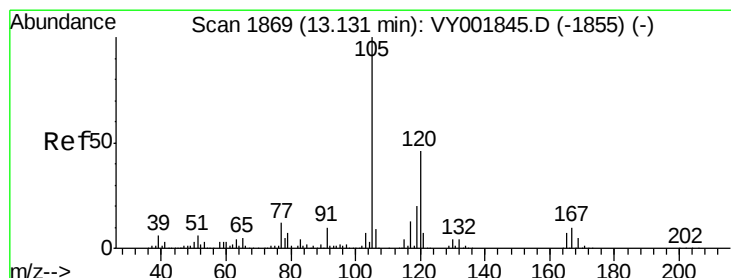
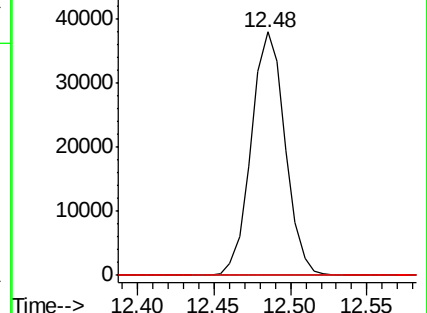
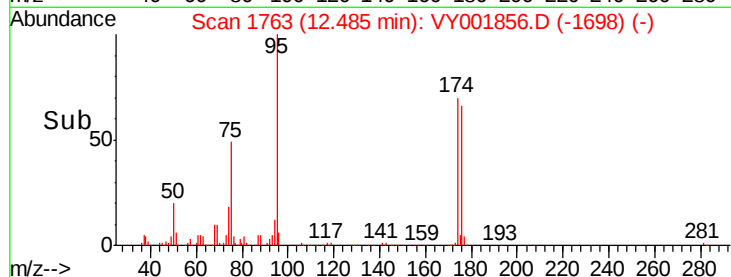
89 0.2 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#84

1,2,4-Trimethylbenzene

Concen: 1.875 ug/l

RT: 13.12 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VY001856.D

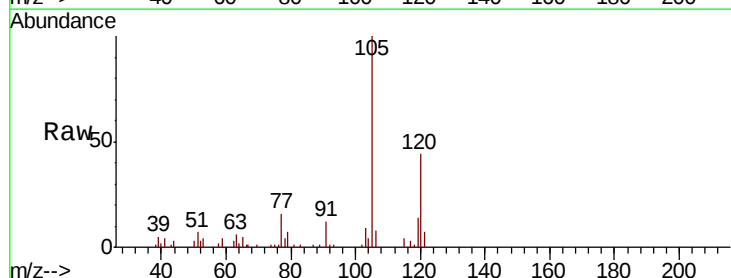
Acq: 04 Mar 2020 16:12

Tgt Ion: 105 Resp: 12479

Ion Ratio Lower Upper

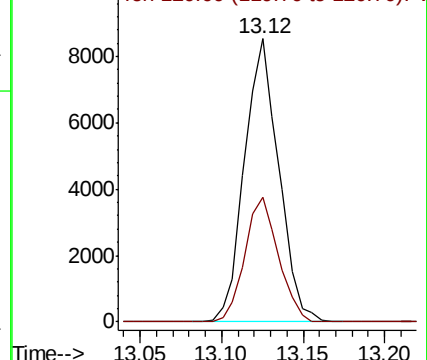
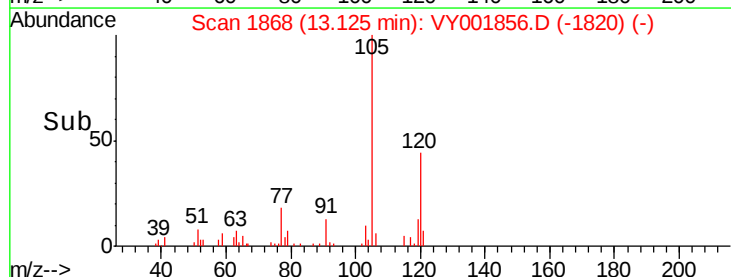
105 100

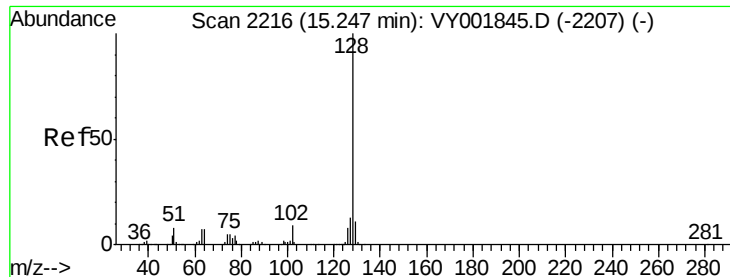
120 43.0 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 2.290 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001856.D

Acq: 04 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-030320

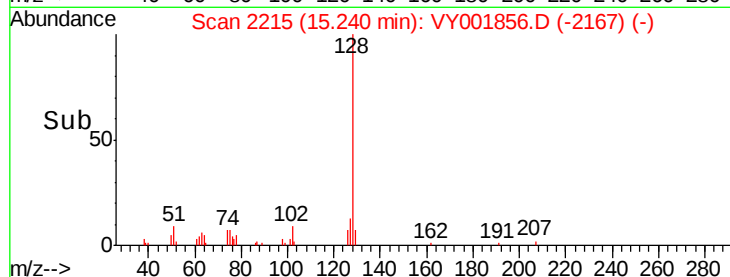
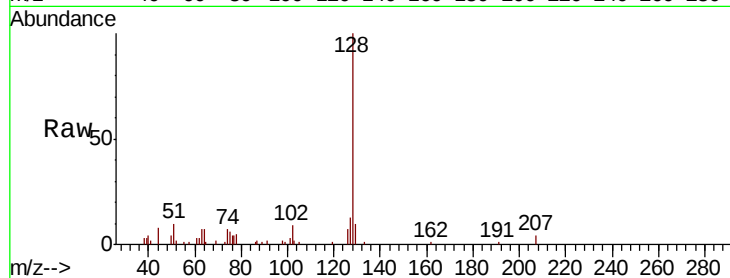
Tot Ion:128 Resp: 10822

Ion Ratio Lower Upper

128 100

127 14.8 10.1 15.1

129 10.7 8.6 13.0



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

