

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021920\
 Data File : VY001707.D
 Acq On : 19 Feb 2020 18:21
 Operator : SY/MD
 Sample : L1589-04
 Misc : 7.14G/5ML/MSVOA Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 20 05:41:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	189476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	359338	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	324658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	139728	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	113441	55.66	ug/l	0.00
Spiked Amount			Recovery	=	111.32%	
35) Dibromofluoromethane	7.75	113	105835	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
50) Toluene-d8	10.19	98	434558	53.89	ug/l	0.00
Spiked Amount			Recovery	=	107.78%	
62) 4-Bromofluorobenzene	12.49	95	154782	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	

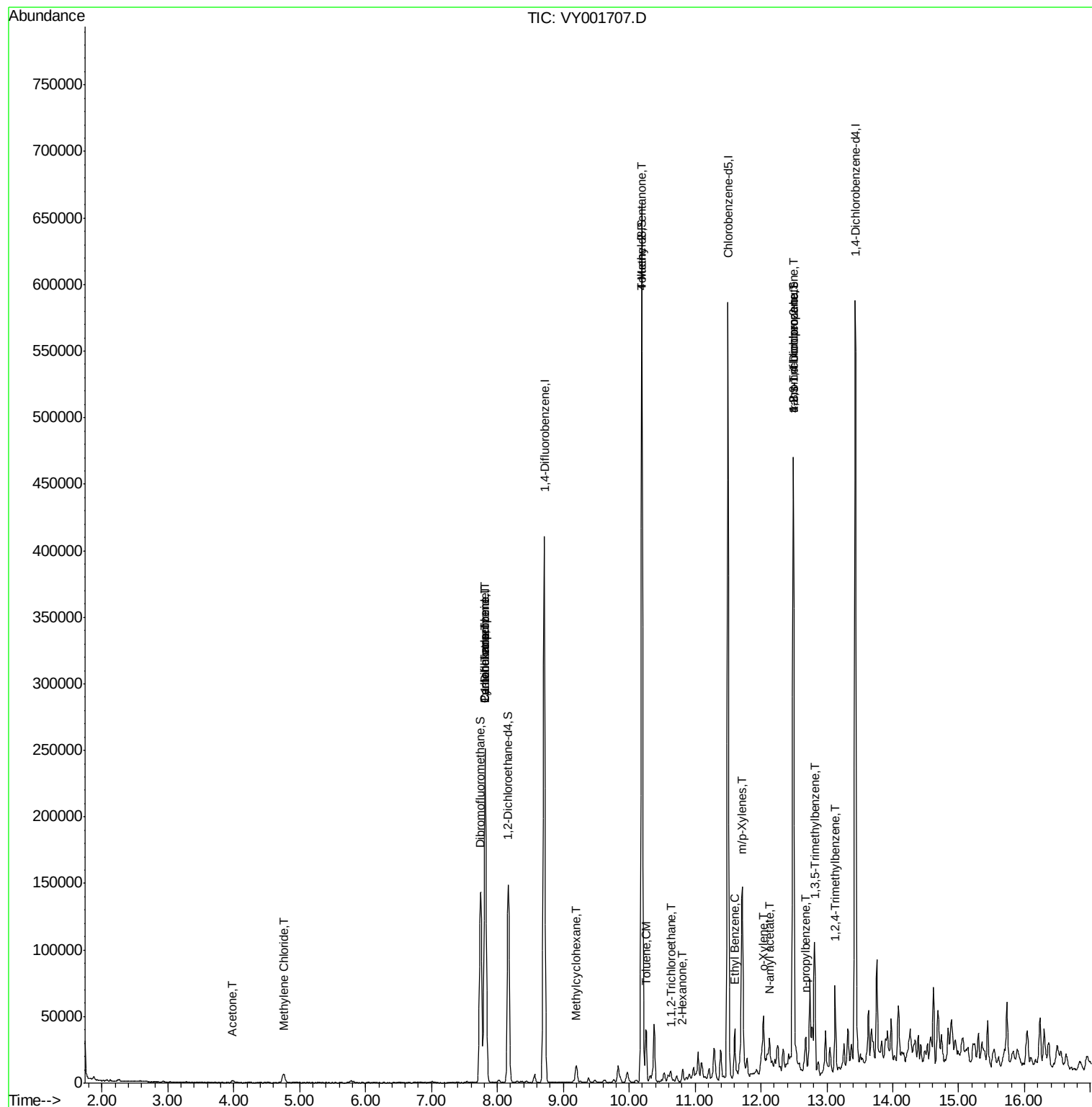
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	87	Below Cal	#	74
16) Acetone	3.97	43	2909	4.125	ug/l #	88
20) Methylene Chloride	4.77	84	4971	1.985	ug/l #	80
31) Cyclohexane	7.82	56	4998	1.167	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	15725	4.581	ug/l #	49
38) Carbon Tetrachloride	7.82	117	19755	6.553	ug/l #	18
39) Methylcyclohexane	9.20	83	5767	1.266	ug/l	94
51) 4-Methyl-2-Pentanone	10.19	43	2279	1.141	ug/l #	1
52) Toluene	10.25	92	16539	2.627	ug/l	100
55) 1,1,2-Trichloroethane	10.63	97	3237	1.660	ug/l #	19
59) 2-Hexanone	10.81	43	3962	2.644	ug/l #	23
67) Ethyl Benzene	11.60	91	24276	2.018	ug/l	99
68) m/p-Xylenes	11.70	106	24807	5.521	ug/l	100
69) o-Xylene	12.04	106	10418	2.439	ug/l	97
74) N-amyl acetate	12.13	43	6964	2.050	ug/l #	50
76) 1,2,3-Trichloropropane	12.49	75	74783	46.656	ug/l #	100
78) n-propylbenzene	12.68	91	20257	1.563	ug/l	99
80) 1,3,5-Trimethylbenzene	12.82	105	8843	1.004	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.49	75	74783	88.514	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.13	105	33293	3.790	ug/l	98

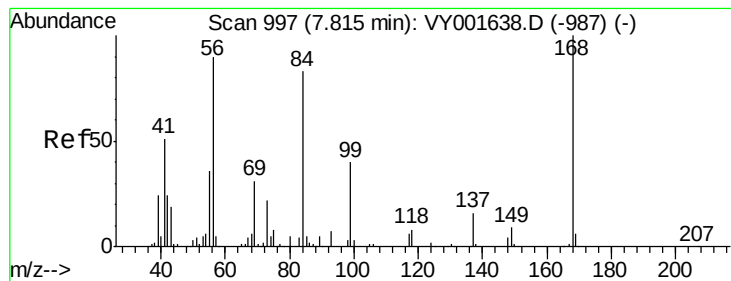
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Feb 17 12:19:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

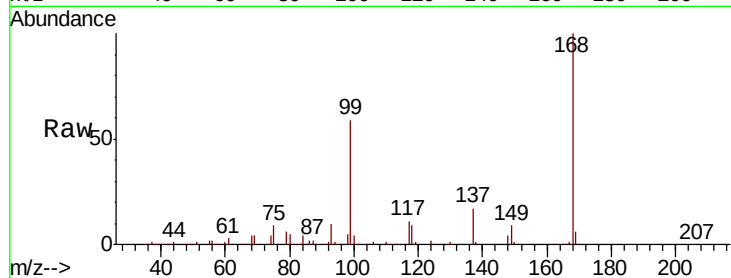
ClientSampleId :

Tot Ion:168 Resp: 189476

Ion Ratio Lower Upper

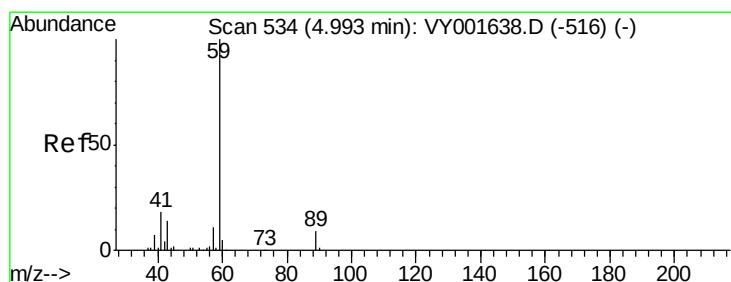
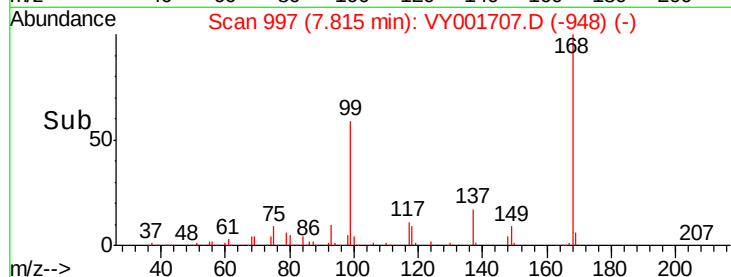
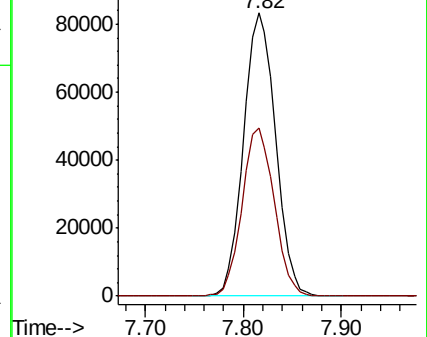
168 100

99 59.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001707.D (-948) (-)

Ion 98.90 (98.60 to 99.60): VY001707.D (-948) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.99 min Scan# 533

Delta R.T. -0.01 min

Lab File: VY001707.D

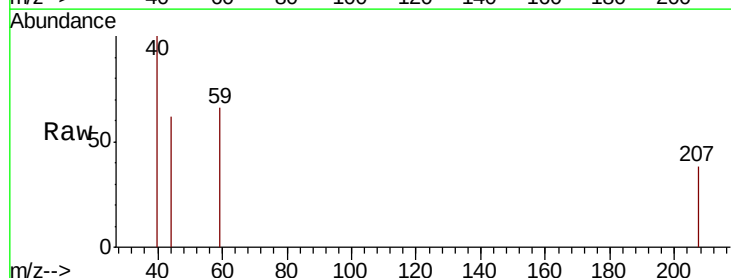
Acq: 19 Feb 2020 18:21

Tgt Ion: 59 Resp: 87

Ion Ratio Lower Upper

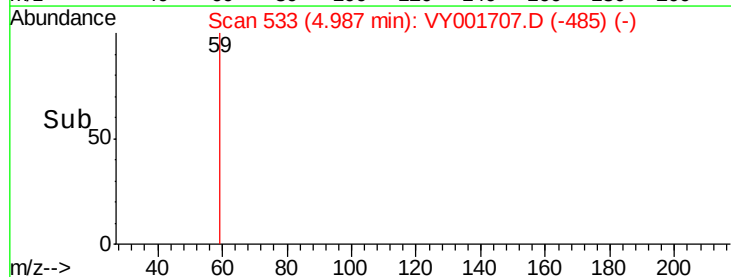
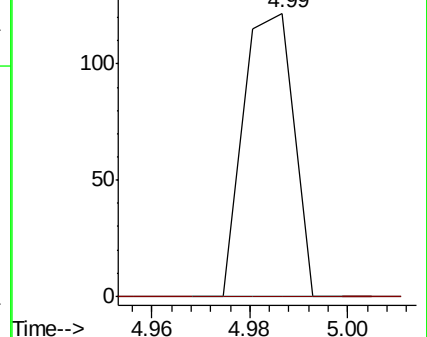
59 100

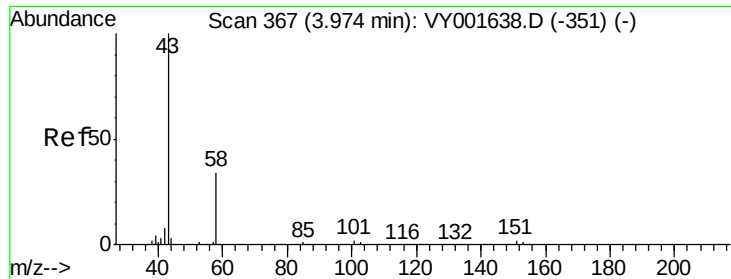
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001707.D (-485) (-)

Ion 57.00 (56.70 to 57.70): VY001707.D (-485) (-)

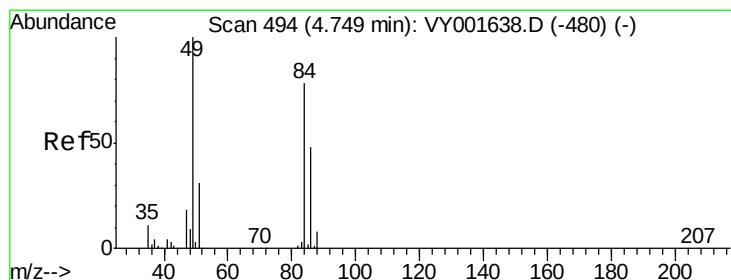
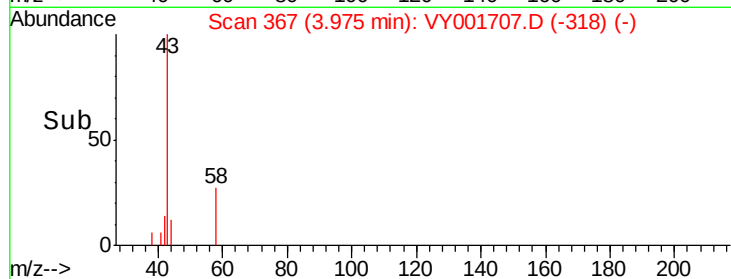
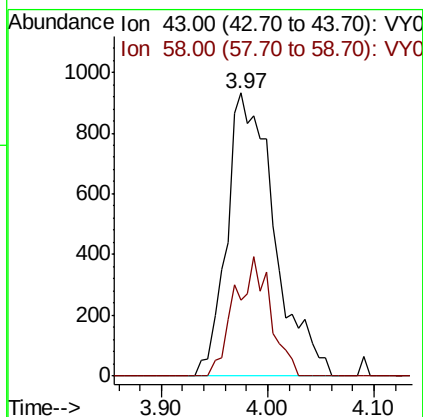
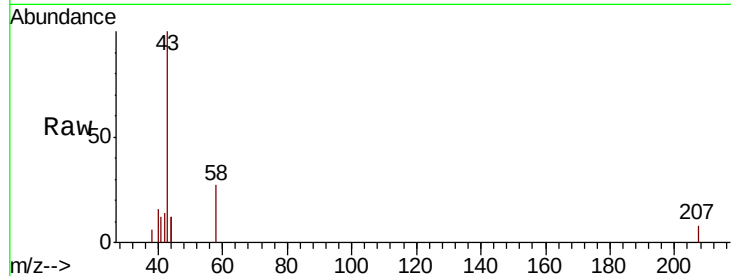




#16
Acetone
Concen: 4.125 ug/l
RT: 3.97 min Scan# 367
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

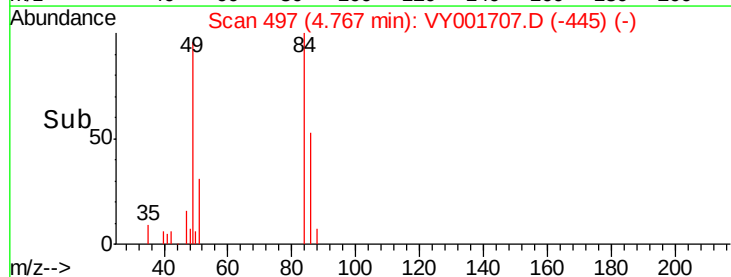
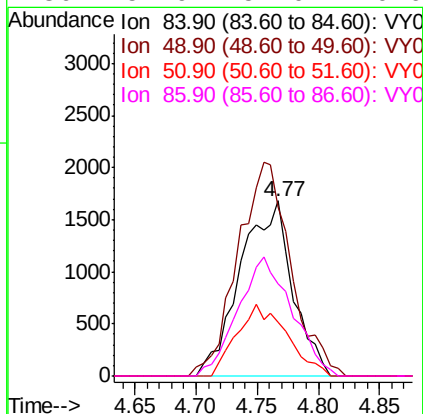
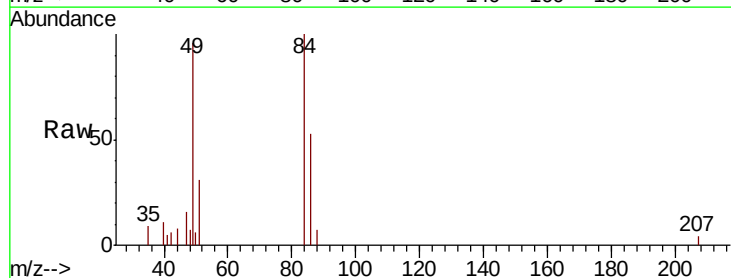
Instrument :
MSVOA_Y
ClientSampled :

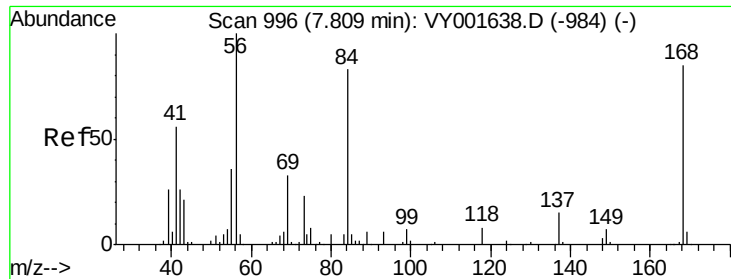
Tot Ion: 43 Resp: 2909
Ion Ratio Lower Upper
43 100
58 27.0 27.3 40.9#



#20
Methylene Chloride
Concen: 1.985 ug/l
RT: 4.77 min Scan# 497
Delta R.T. 0.02 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion: 84 Resp: 4971
Ion Ratio Lower Upper
84 100
49 96.3 99.2 148.8#
51 30.7 31.5 47.3#
86 52.9 51.0 76.6

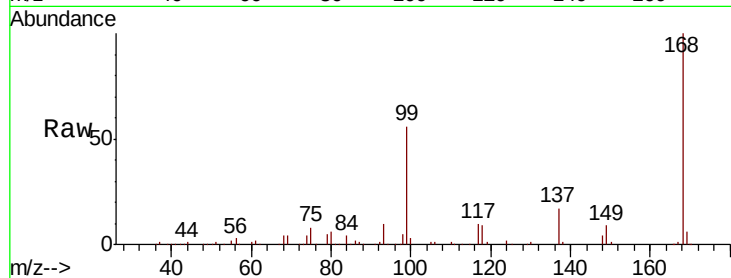




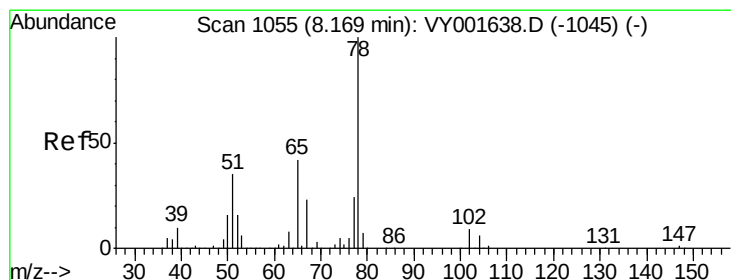
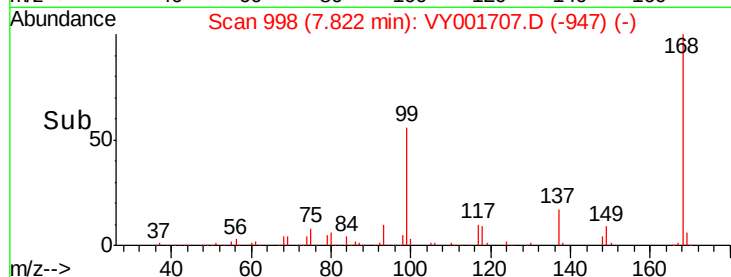
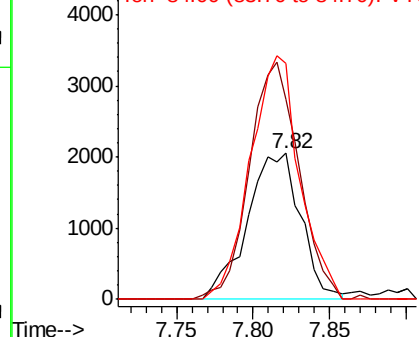
#31
Cyclohexane
Concen: 1.167 ug/l
RT: 7.82 min Scan# 998
Delta R.T. 0.01 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 4998
Ion Ratio Lower Upper
56 100
69 137.0 25.1 37.7#
84 161.1 66.9 100.3#

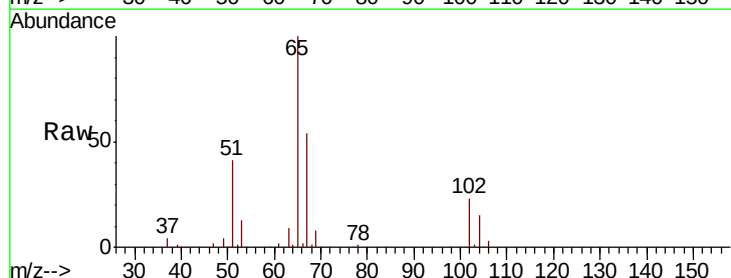


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

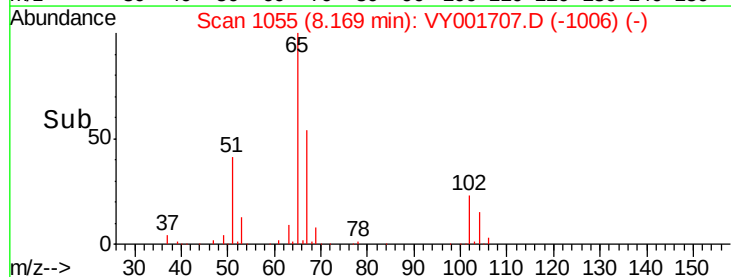
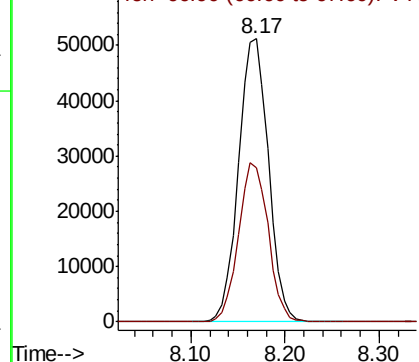


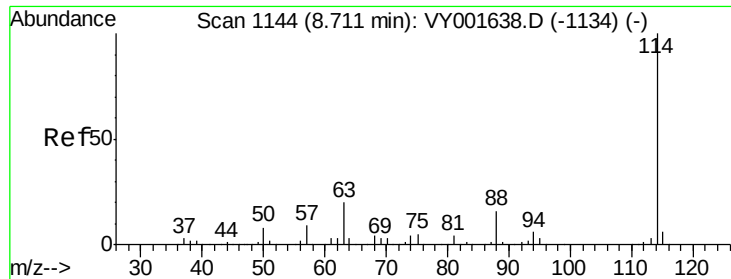
#33
1,2-Dichloroethane-d4
Concen: 55.661 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion: 65 Resp: 113441
Ion Ratio Lower Upper
65 100
67 55.8 0.0 111.0



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

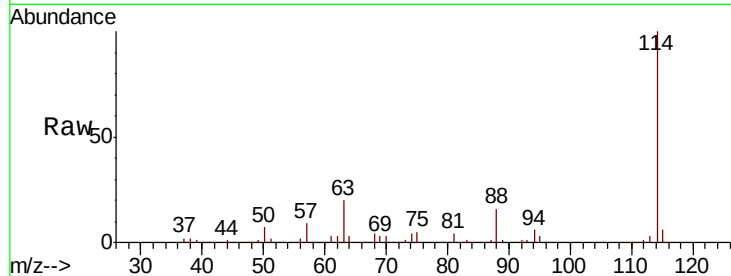




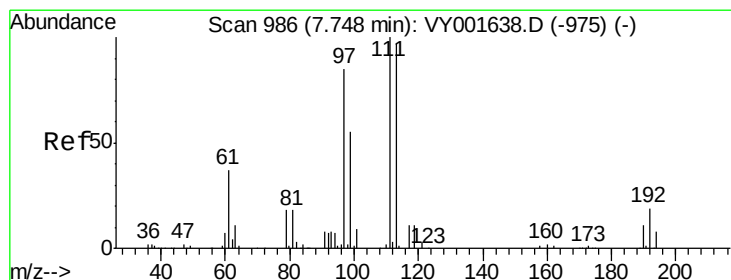
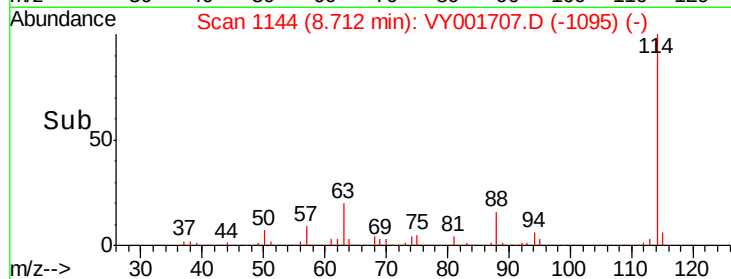
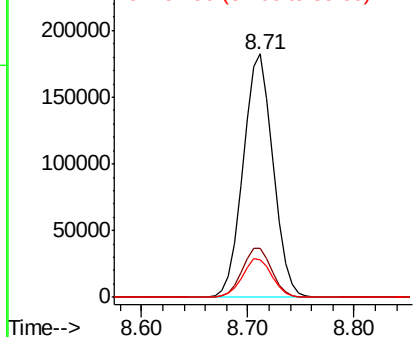
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VY001707.D
 Acq: 19 Feb 2020 18:21

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	41.4
88	15.6	0.0	32.8

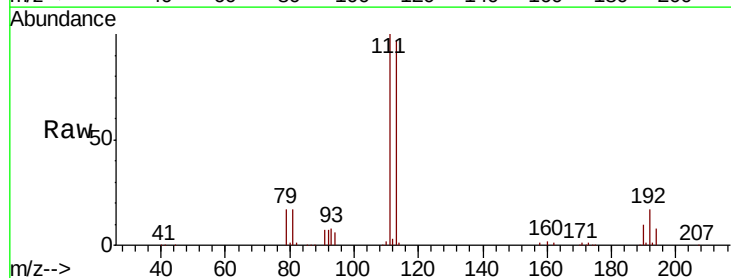


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

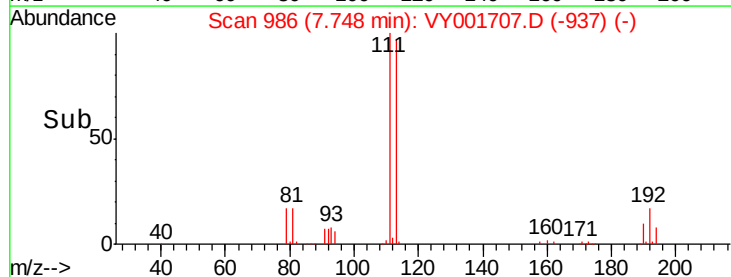
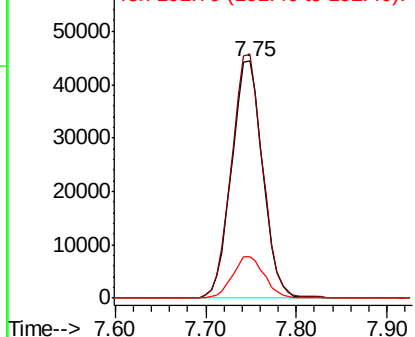


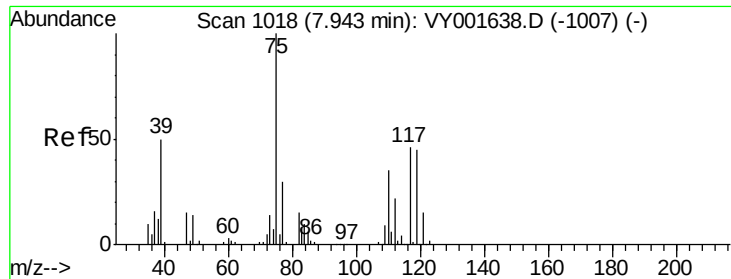
#35
 Dibromofluoromethane
 Concen: 51.423 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VY001707.D
 Acq: 19 Feb 2020 18:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.9	122.9
192	17.8	14.3	21.5



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

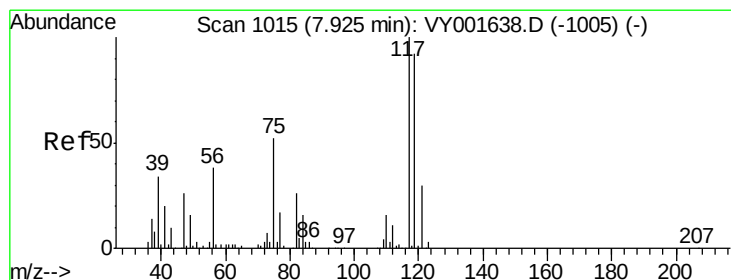
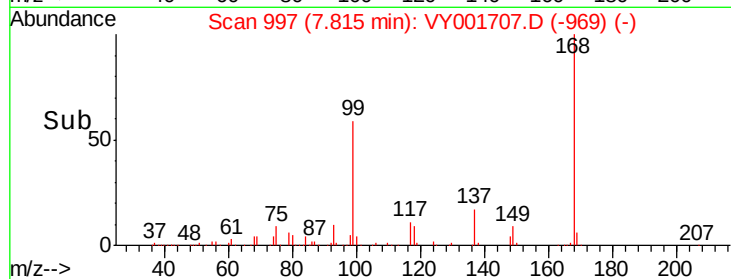
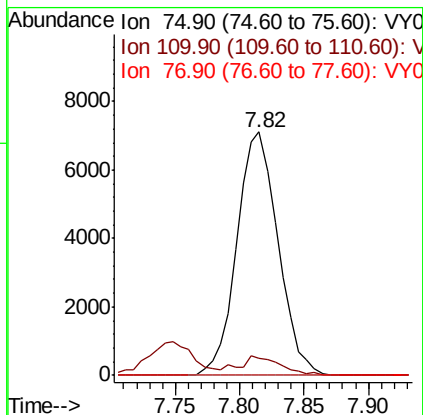
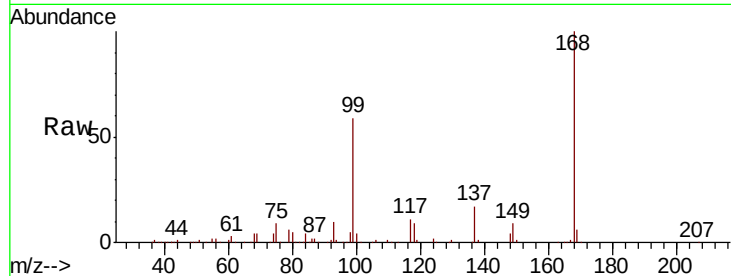




#36
 1,1-Dichloropropene
 Concen: 4.581 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001707.D
 Acq: 19 Feb 2020 18:21

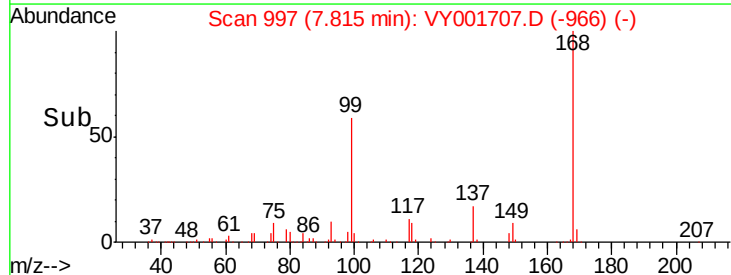
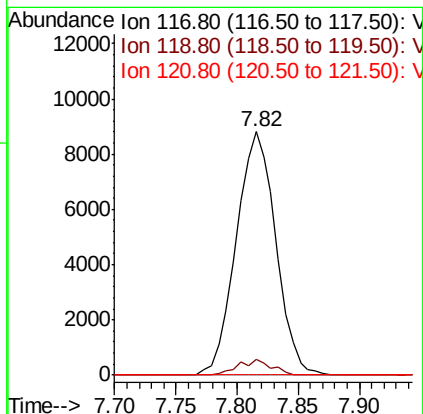
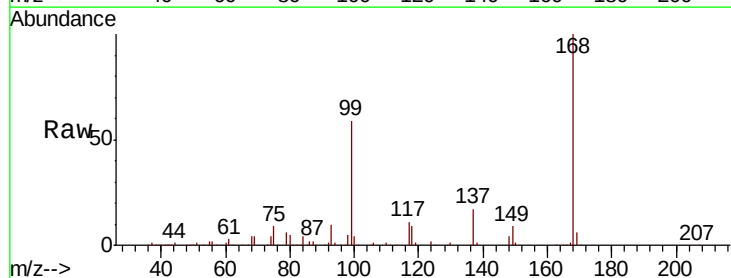
Instrument :
 MSVOA_Y
 ClientSampleId :

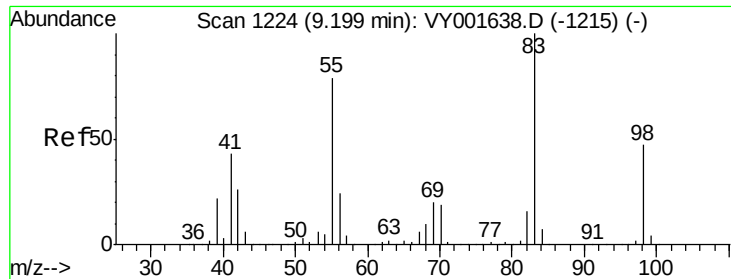
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.2	51.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.553 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.11 min
 Lab File: VY001707.D
 Acq: 19 Feb 2020 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	74.8	112.2#
121	0.0	23.8	35.6#

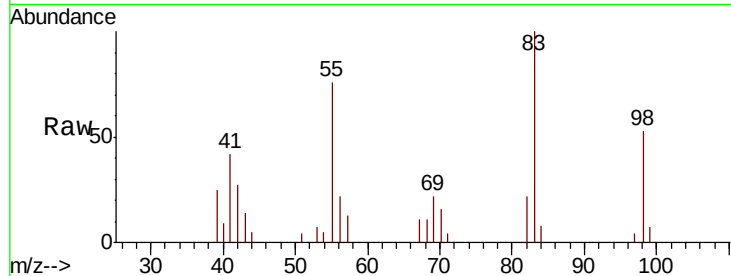




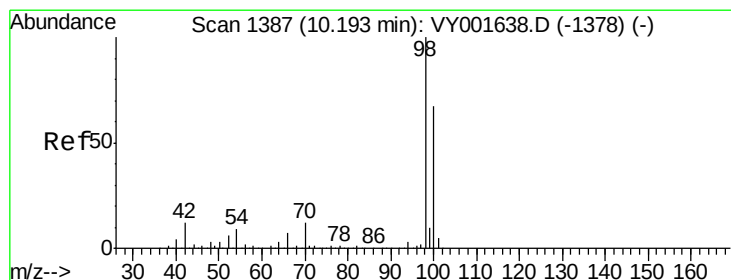
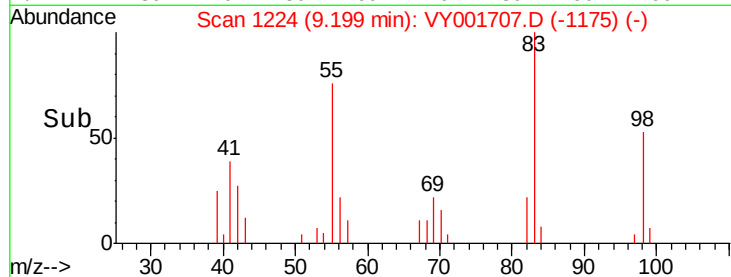
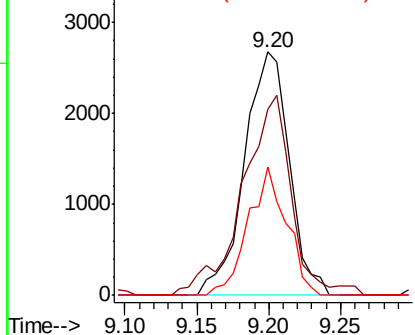
#39
Methylcyclohexane
Concen: 1.266 ug/l
RT: 9.20 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 83 Resp: 5767
Ion Ratio Lower Upper
83 100
55 72.7 61.3 91.9
98 52.7 38.0 57.0

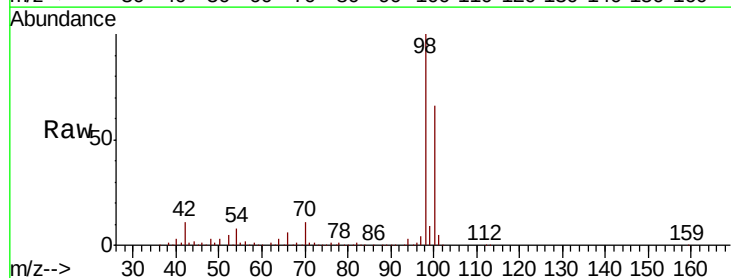


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

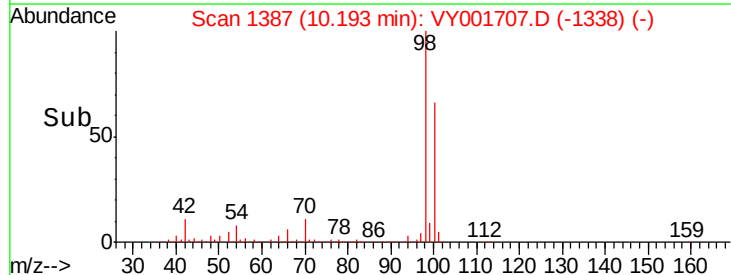
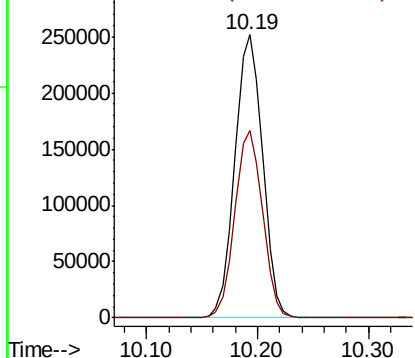


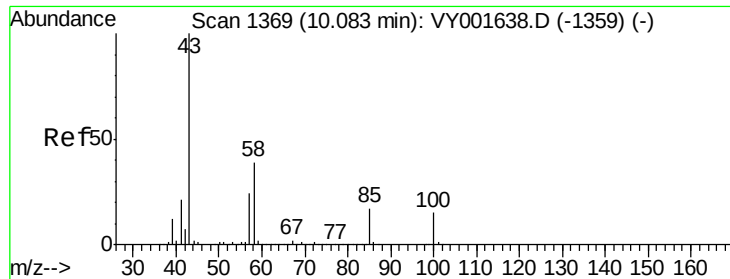
#50
Toluene-d8
Concen: 53.895 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion: 98 Resp: 434558
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4



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

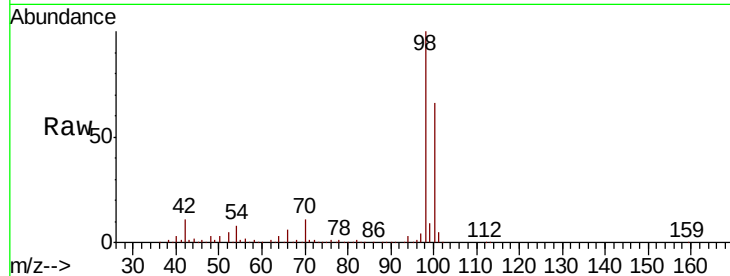




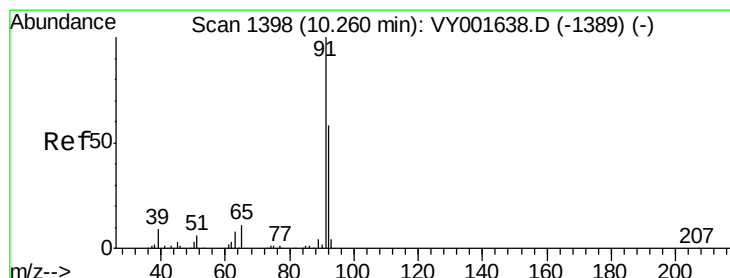
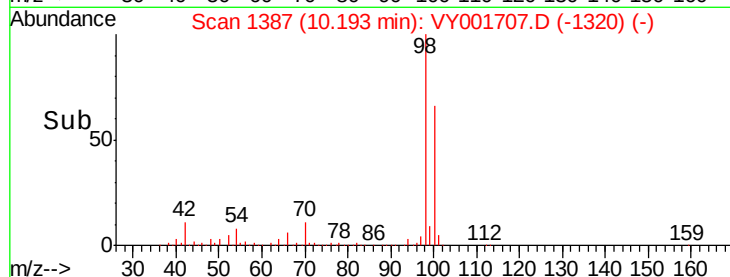
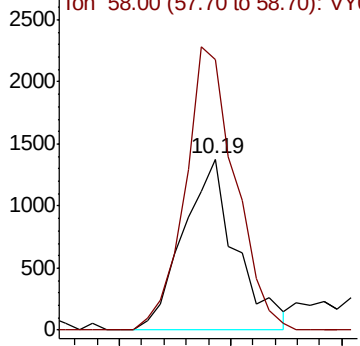
#51
4-Methyl-2-Pentanone
Concen: 1.141 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.11 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 2279
Ion Ratio Lower Upper
43 100
58 157.0 32.2 48.4#

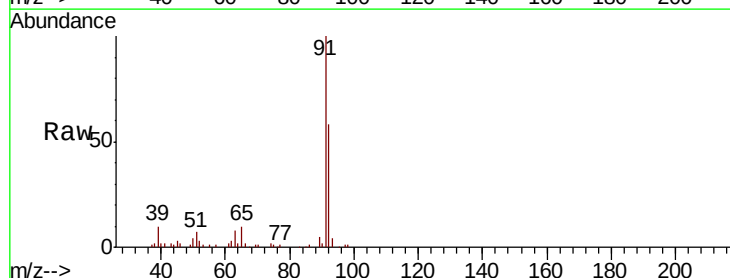


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

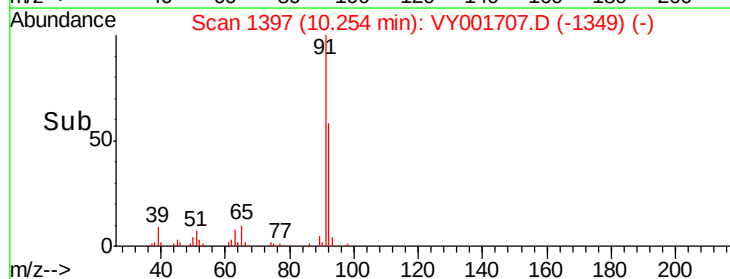
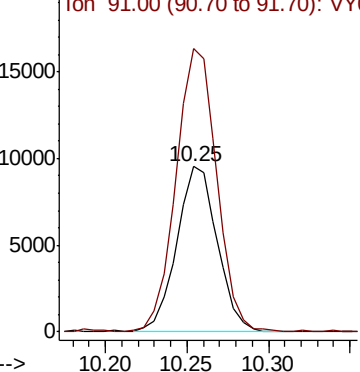


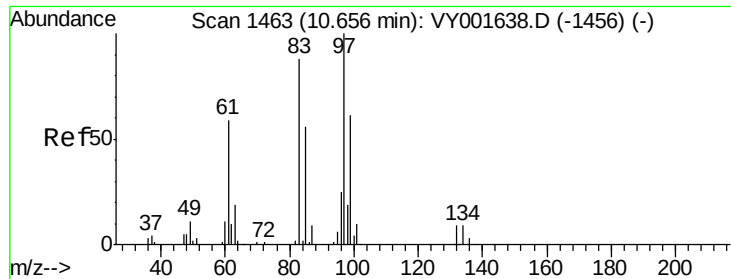
#52
Toluene
Concen: 2.627 ug/l
RT: 10.25 min Scan# 1397
Delta R.T. -0.01 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion: 92 Resp: 16539
Ion Ratio Lower Upper
92 100
91 171.2 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VY0
Ion 91.00 (90.70 to 91.70): VY0





#55

1,1,2-Trichloroethane

Concen: 1.660 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.03 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 97 Resp: 3237

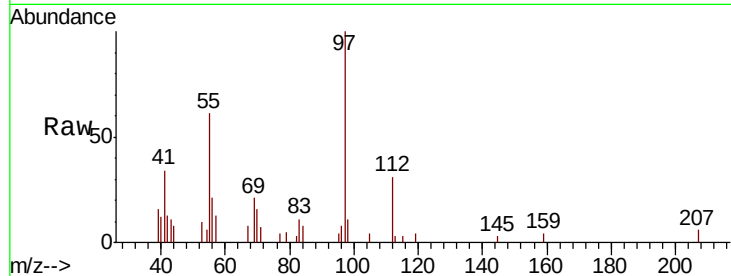
Ion Ratio Lower Upper

97 100

83 8.4 69.7 104.5#

85 0.0 44.5 66.7#

99 0.0 49.6 74.4#

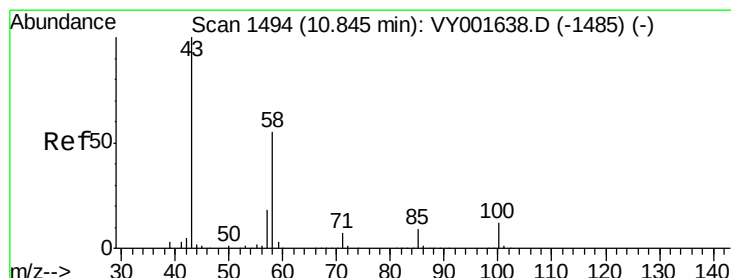
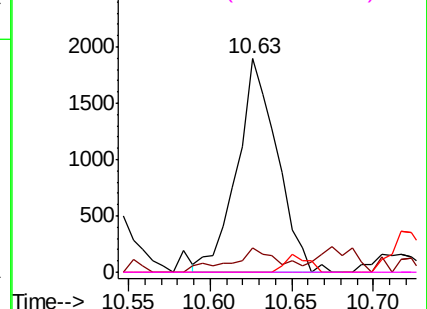
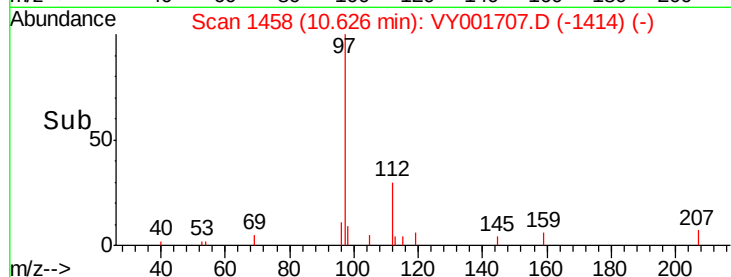


Abundance Ion 96.90 (96.60 to 97.60): VY001707.D (-1414) (-)

Ion 82.90 (82.60 to 83.60): VY001707.D (-1414) (-)

Ion 84.90 (84.60 to 85.60): VY001707.D (-1414) (-)

Ion 98.90 (98.60 to 99.60): VY001707.D (-1414) (-)



#59

2-Hexanone

Concen: 2.644 ug/l

RT: 10.81 min Scan# 1489

Delta R.T. -0.03 min

Lab File: VY001707.D

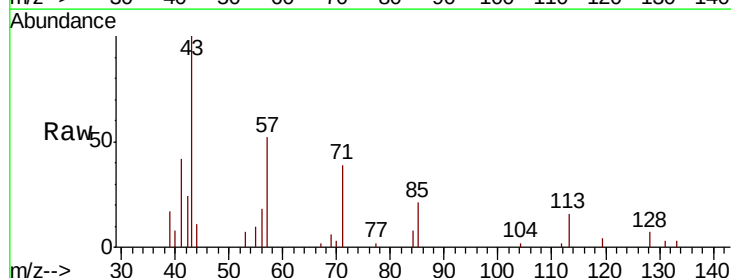
Acq: 19 Feb 2020 18:21

Tgt Ion: 43 Resp: 3962

Ion Ratio Lower Upper

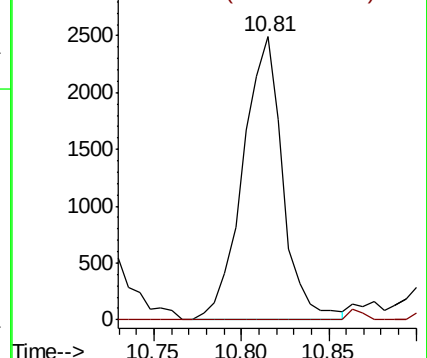
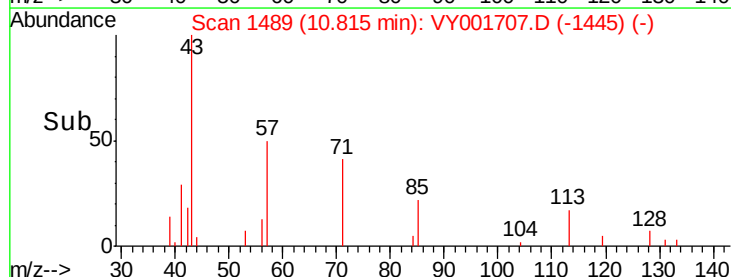
43 100

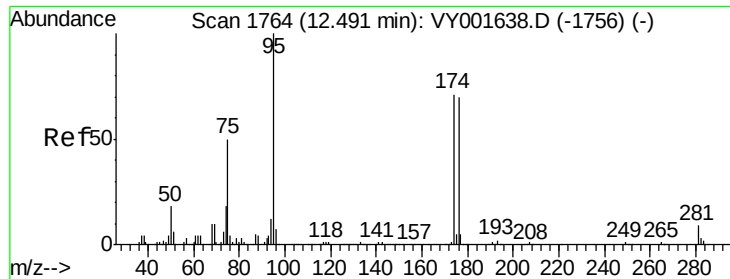
58 0.0 28.4 85.2#



Abundance Ion 43.00 (42.70 to 43.70): VY001707.D (-1445) (-)

Ion 58.00 (57.70 to 58.70): VY001707.D (-1445) (-)

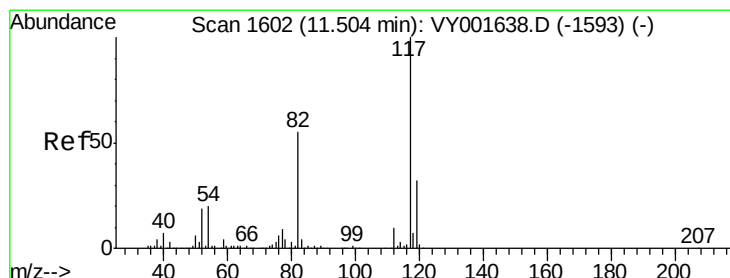
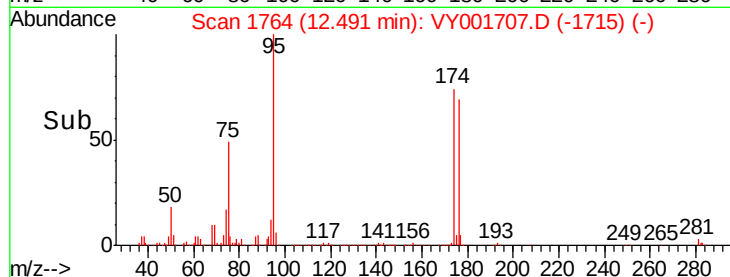
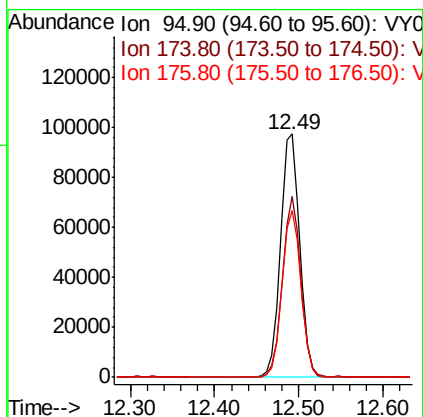
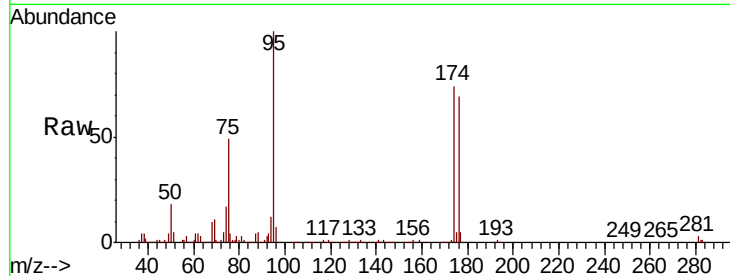




#62
4-Bromofluorobenzene
Concen: 49.412 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

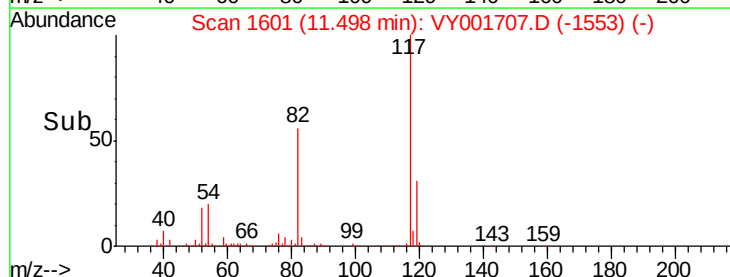
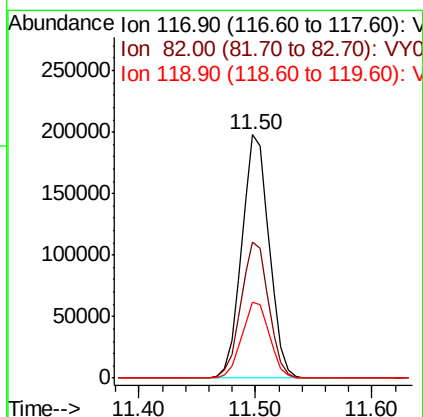
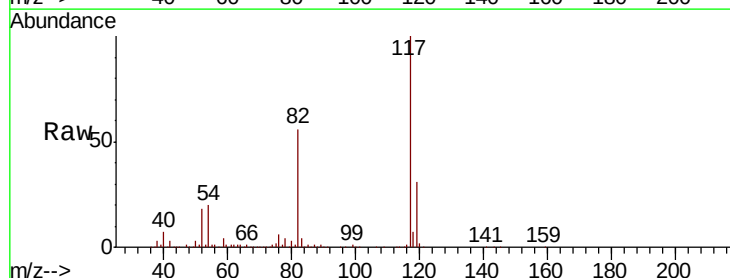
Instrument :
MSVOA_Y
ClientSampleId :

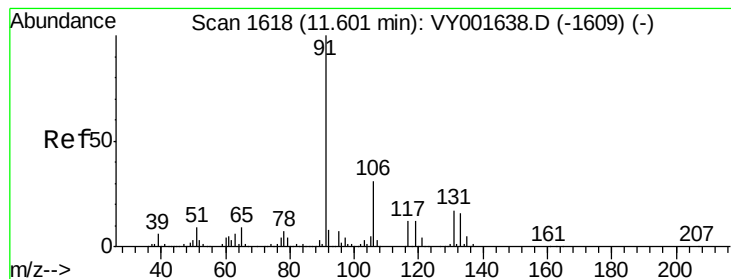
Tot Ion: 95 Resp: 154782
Ion Ratio Lower Upper
95 100
174 70.4 0.0 138.4
176 67.1 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion: 117 Resp: 324658
Ion Ratio Lower Upper
117 100
82 55.6 45.5 68.3
119 31.2 25.8 38.6





#67

Ethyl Benzene

Concen: 2.018 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

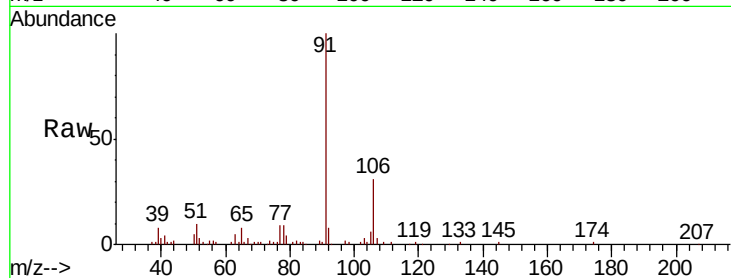
ClientSampled :

Tot Ion: 91 Resp: 24276

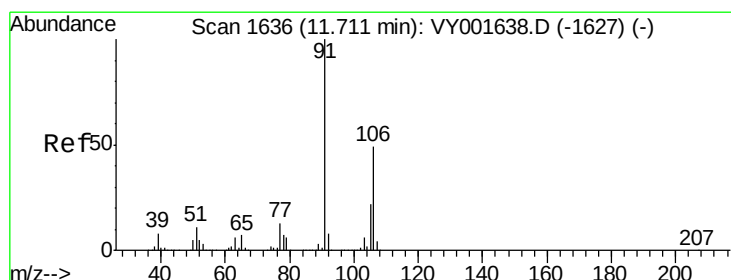
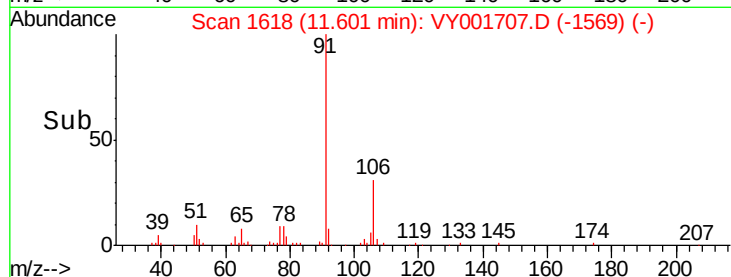
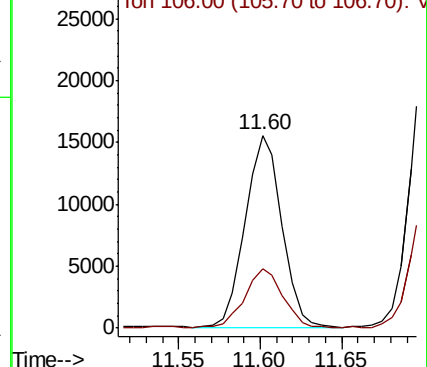
Ion Ratio Lower Upper

91 100

106 30.9 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VY001638.D (-1609) (-)



#68

m/p-Xylenes

Concen: 5.521 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY001707.D

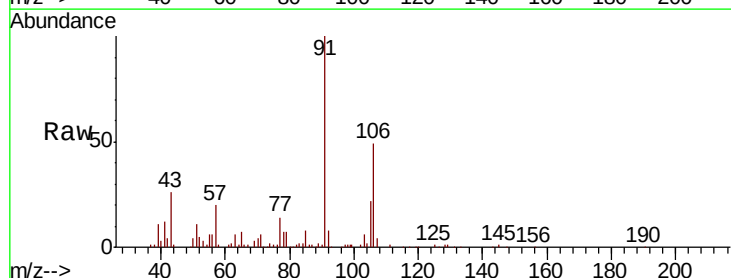
Acq: 19 Feb 2020 18:21

Tgt Ion: 106 Resp: 24807

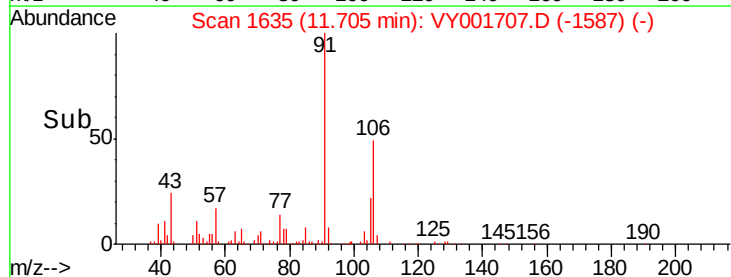
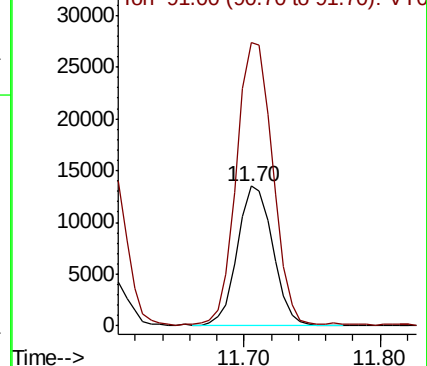
Ion Ratio Lower Upper

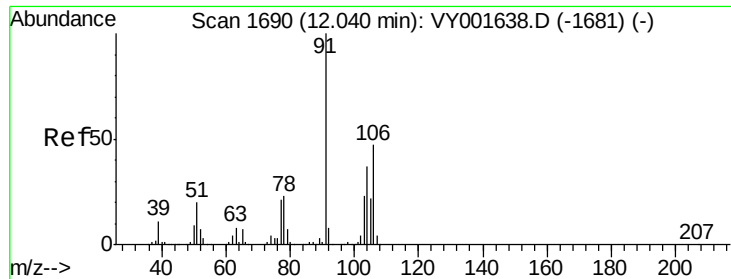
106 100

91 204.5 163.3 244.9



Abundance Ion 106.00 (105.70 to 106.70): VY001638.D (-1627) (-)

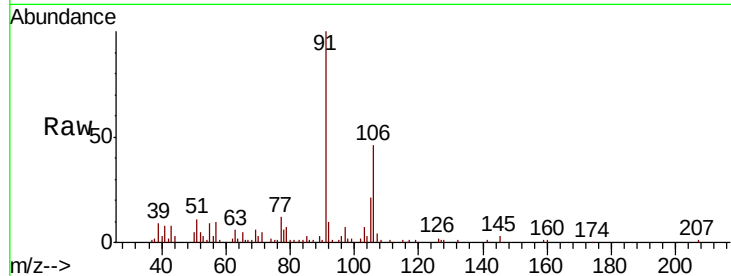




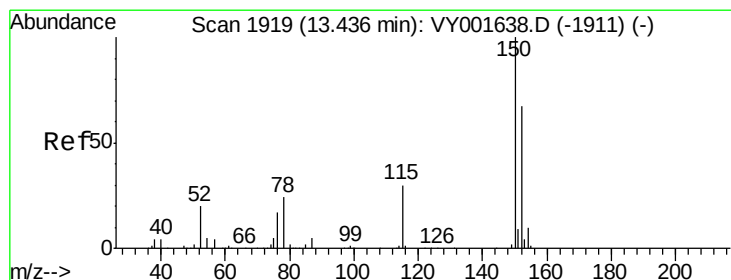
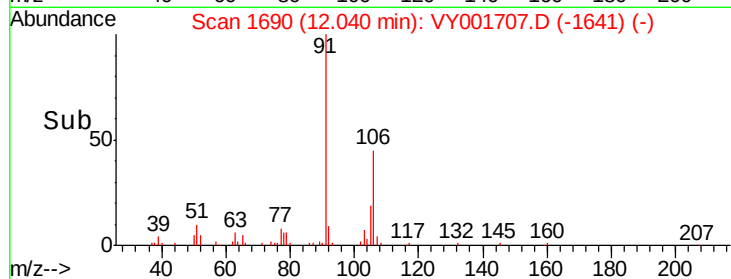
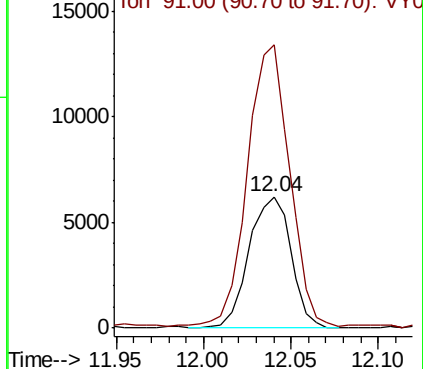
#69
o-Xylene
Concen: 2.439 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:106 Resp: 10418
Ion Ratio Lower Upper
106 100
91 220.7 108.3 324.9

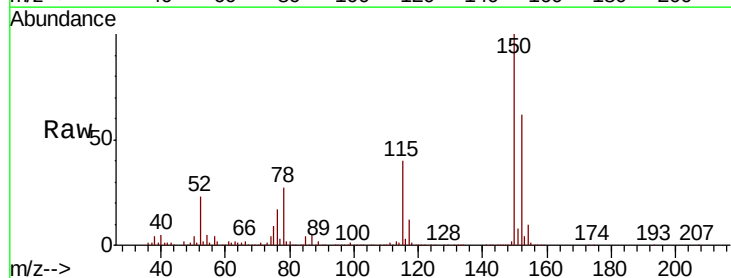


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

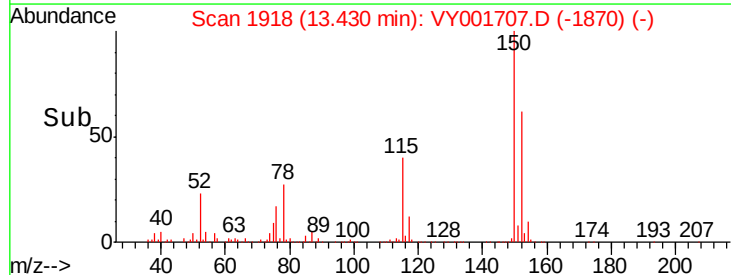
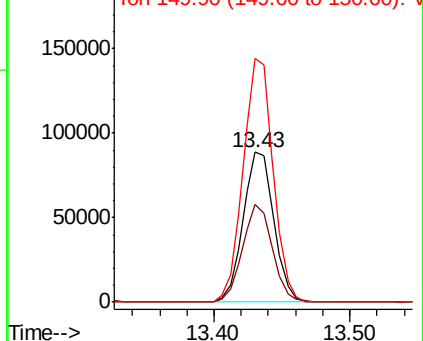


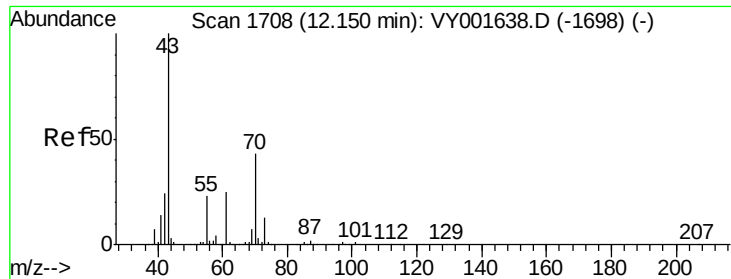
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001707.D
Acq: 19 Feb 2020 18:21

Tgt Ion:152 Resp: 139728
Ion Ratio Lower Upper
152 100
115 63.1 31.4 94.2
150 158.6 0.0 407.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.050 ug/l

RT: 12.13 min Scan# 1705

Delta R.T. -0.02 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 6964

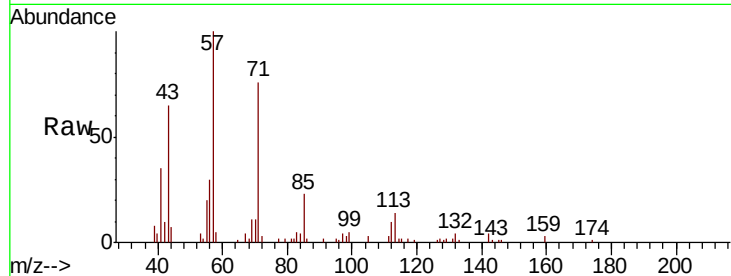
Ion Ratio Lower Upper

43 100

70 11.7 35.9 53.9#

55 0.0 18.3 27.5#

61 0.0 20.7 31.1#

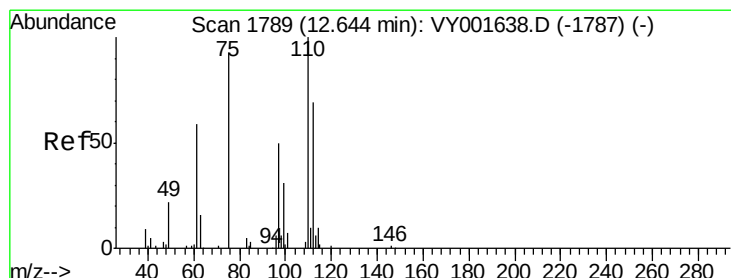
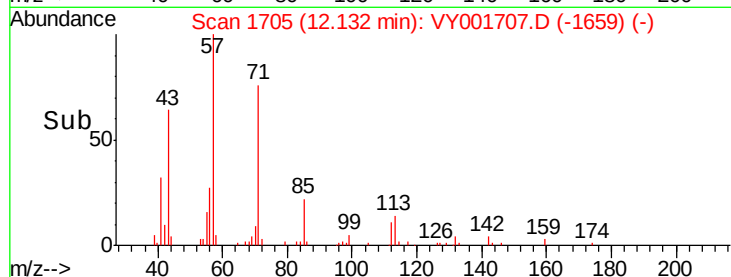
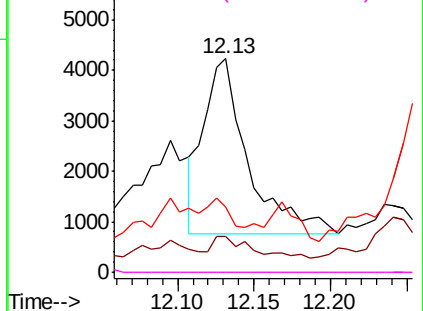


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 46.656 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001707.D

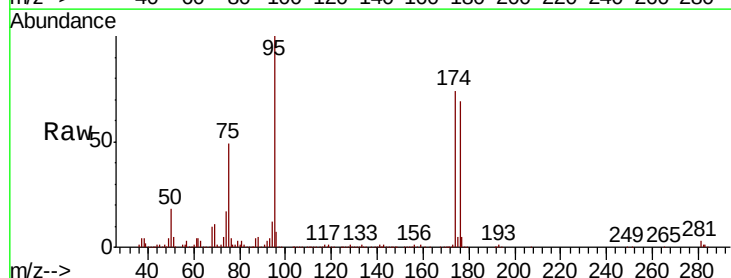
Acq: 19 Feb 2020 18:21

Tgt Ion: 75 Resp: 74783

Ion Ratio Lower Upper

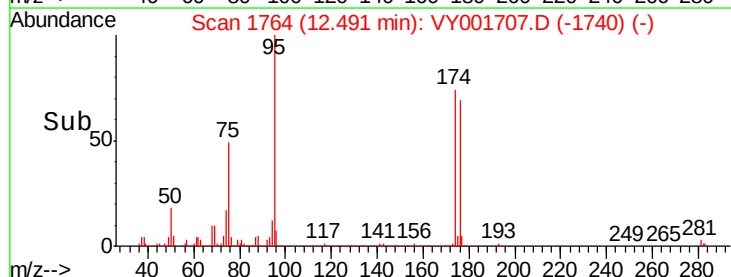
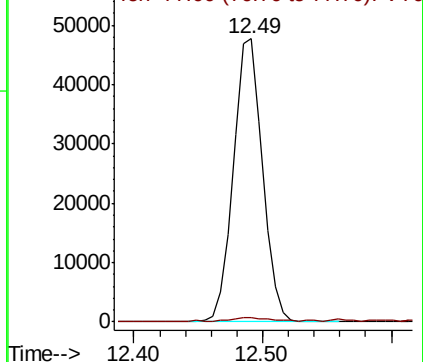
75 100

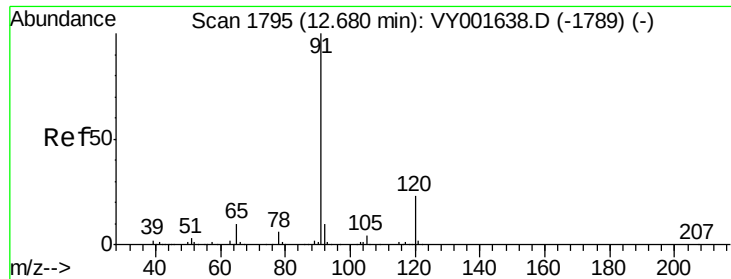
77 2.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#78

n-propylbenzene

Concen: 1.563 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

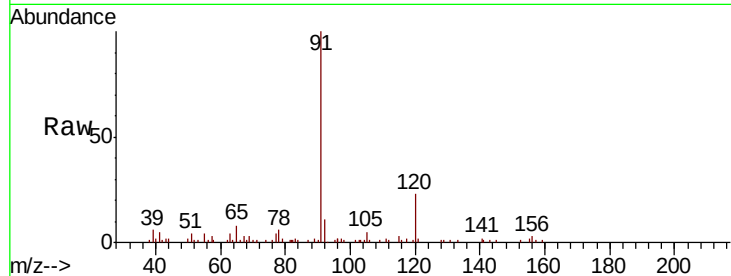
ClientSampleId :

Tot Ion: 91 Resp: 20257

Ion Ratio Lower Upper

91 100

120 21.8 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VY001707.D (-1746) (-)

Ion 120.00 (119.70 to 120.70): VY001707.D (-1746) (-)

12.68

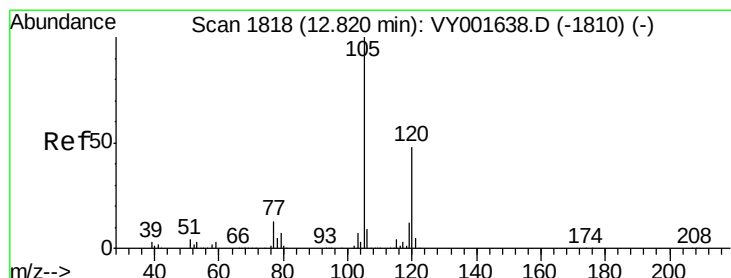
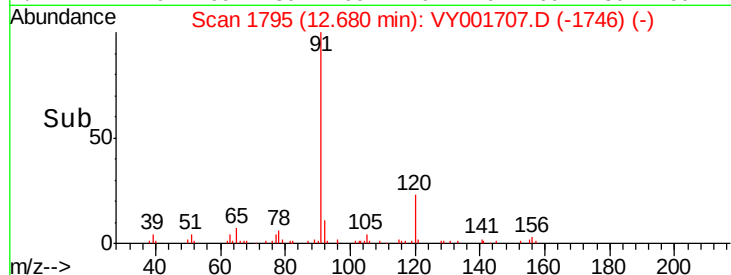
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.004 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VY001707.D

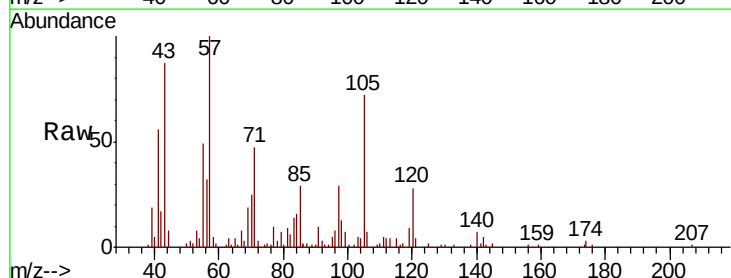
Acq: 19 Feb 2020 18:21

Tgt Ion: 105 Resp: 8843

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VY001707.D (-1769) (-)

Ion 120.00 (119.70 to 120.70): VY001707.D (-1769) (-)

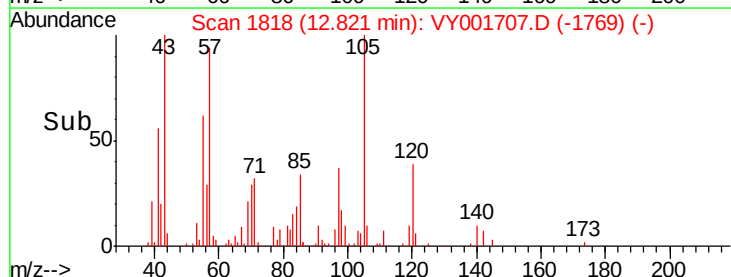
12.82

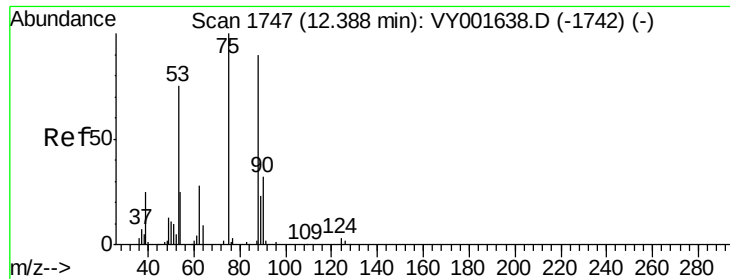
10000

5000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 88.514 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001707.D

Acq: 19 Feb 2020 18:21

Instrument :

MSVOA_Y

ClientSampleId :

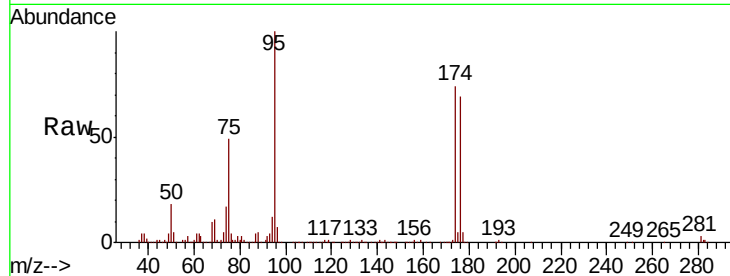
Tot Ion: 75 Resp: 74783

Ion Ratio Lower Upper

75 100

53 0.0 64.5 96.7#

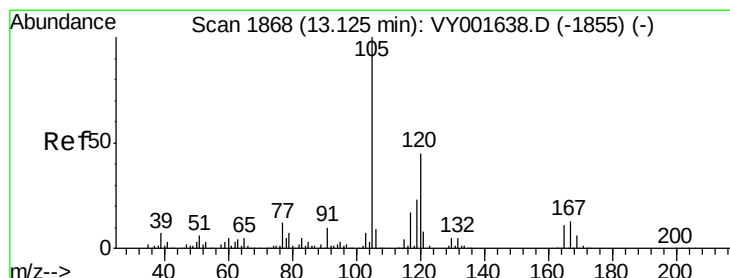
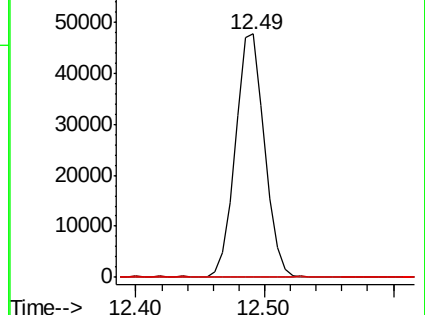
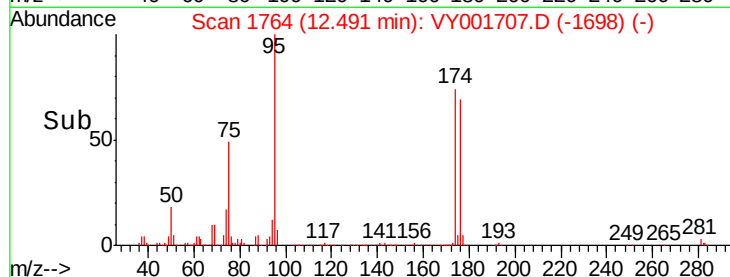
89 0.3 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VY001707.D (-1698) (-)

Ion 53.00 (52.70 to 53.70): VY001707.D (-1698) (-)

Ion 88.90 (88.60 to 89.60): VY001707.D (-1698) (-)



#84

1,2,4-Trimethylbenzene

Concen: 3.790 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VY001707.D

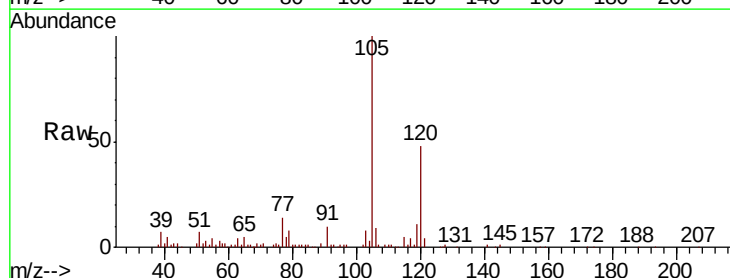
Acq: 19 Feb 2020 18:21

Tgt Ion: 105 Resp: 33293

Ion Ratio Lower Upper

105 100

120 46.2 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): VY001707.D (-1819) (-)

Ion 120.00 (119.70 to 120.70): VY001707.D (-1819) (-)

