

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012522\
 Data File : VY007292.D
 Acq On : 25 Jan 2022 14:19
 Operator : SY/MD
 Sample : N1248-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 26 03:57:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 14 05:48:29 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

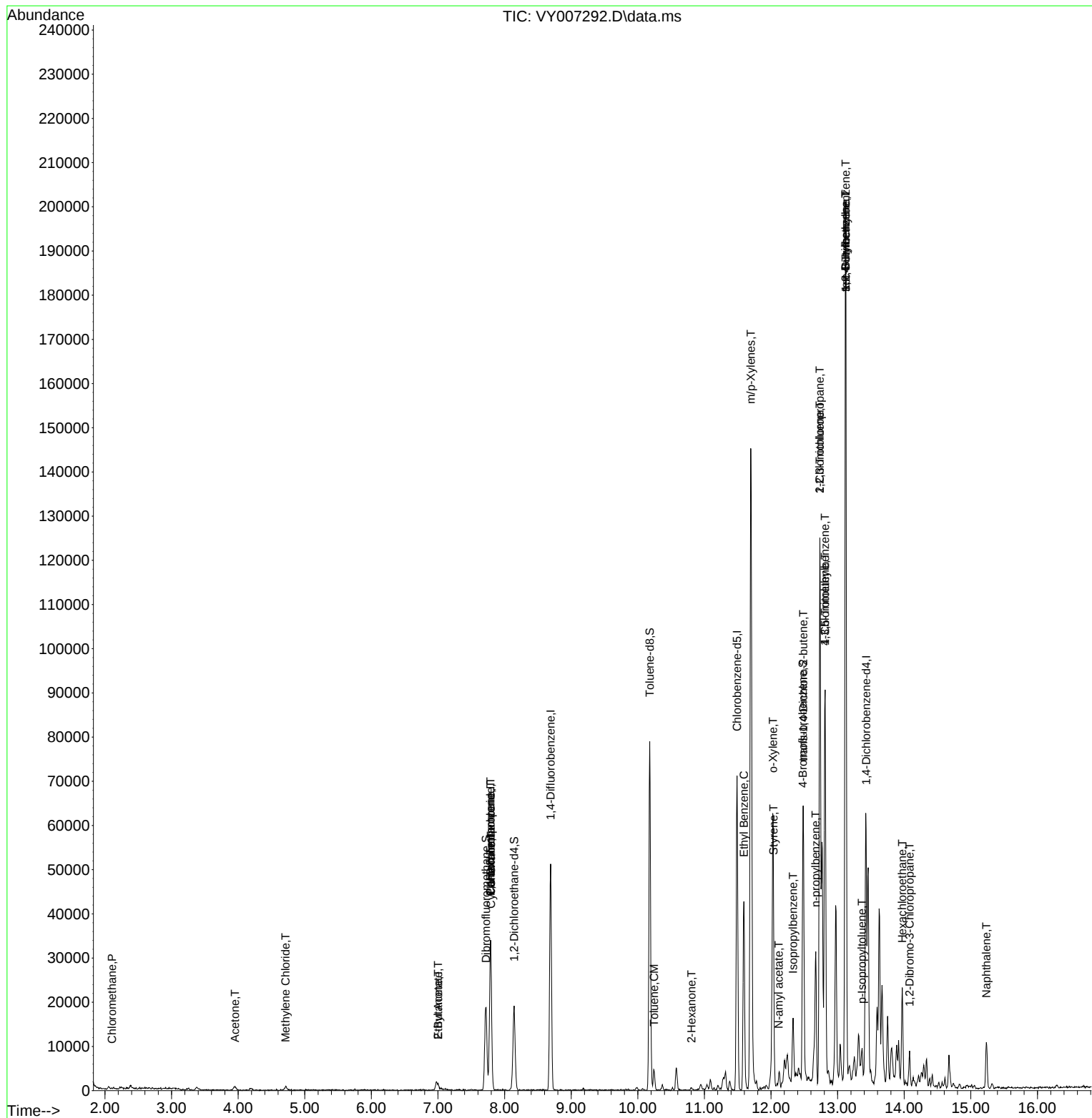
Internal Standards						
1) Pentafluorobenzene	7.789	168	24461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	43222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	37947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	14864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	14436	48.098	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.200%		
35) Dibromofluoromethane	7.722	113	13878	47.485	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.960%		
50) Toluene-d8	10.179	98	51686	48.399	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	96.800%		
62) 4-Bromofluorobenzene	12.477	95	16420	43.225	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	86.460%		
Target Compounds						Qvalue
3) Chloromethane	2.107	50	202	1.123	ug/l #	41
16) Acetone	3.954	43	1701	21.837	ug/l #	89
20) Methylene Chloride	4.710	84	576	1.788	ug/l #	73
25) 2-Butanone	7.002	43	441	4.379	ug/l #	47
31) Cyclohexane	7.795	56	657	1.295	ug/l #	56
36) 1,1-Dichloropropene	7.789	75	2021	4.330	ug/l #	49
37) Ethyl Acetate	7.002	43	441	1.841	ug/l #	67
38) Carbon Tetrachloride	7.789	117	2653	5.404	ug/l #	12
52) Toluene	10.246	92	2066	2.618	ug/l	98
59) 2-Hexanone	10.807	43	386	2.407	ug/l #	23
67) Ethyl Benzene	11.593	91	29911	19.180	ug/l	99
68) m/p-Xylenes	11.697	106	42138	72.710	ug/l	99
69) o-Xylene	12.032	106	15845	29.033	ug/l	98
70) Styrene	12.038	104	1112	1.208	ug/l #	1
73) Isopropylbenzene	12.331	105	7583	5.907	ug/l	98
74) N-amyl acetate	12.117	43	1047	3.050	ug/l #	60
76) 1,2,3-Trichloropropane	12.733	75	677	3.994	ug/l #	100
78) n-propylbenzene	12.672	91	23437	14.727	ug/l	98
79) 2-Chlorotoluene	12.733	91	9583	10.830	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.812	105	39679	37.642	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	9064	97.904	ug/l #	3
82) 4-Chlorotoluene	12.812	91	4673	5.063	ug/l #	42
83) tert-Butylbenzene	13.117	119	13384	14.694	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.123	105	109406	104.709	ug/l	99
85) sec-Butylbenzene	13.123	105	109406	80.289	ug/l #	57
86) p-Isopropyltoluene	13.367	119	3335	2.978	ug/l	97
90) Hexachloroethane	13.971	117	1011	4.618	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.080	75	54	1.252	ug/l #	3
95) Naphthalene	15.233	128	8718	13.874	ug/l	97

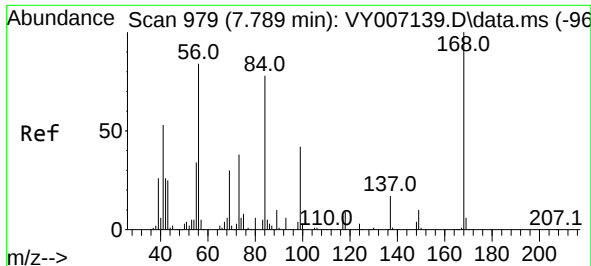
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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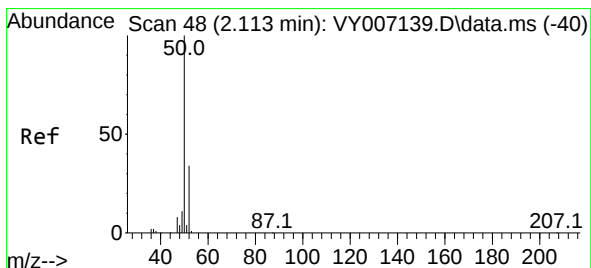
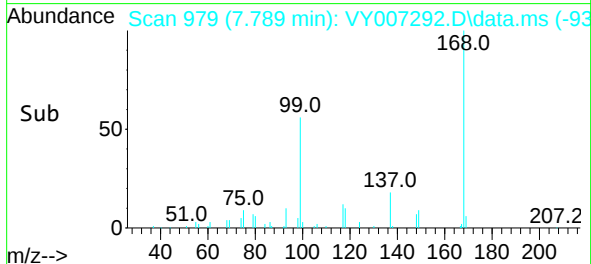
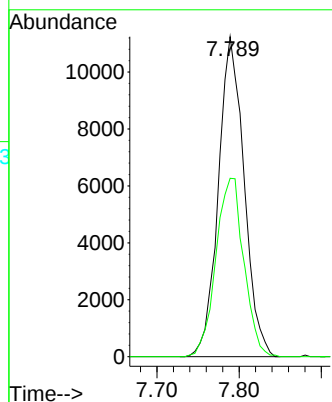
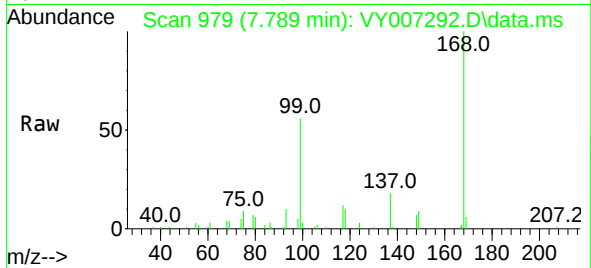




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

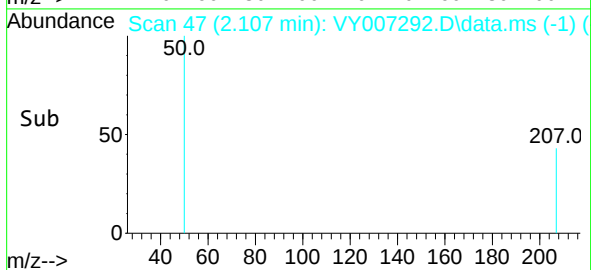
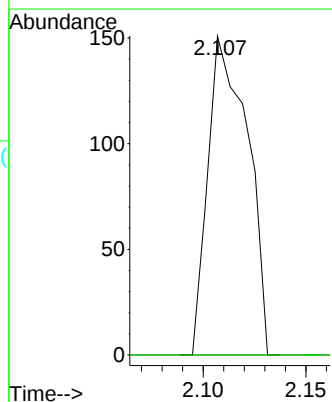
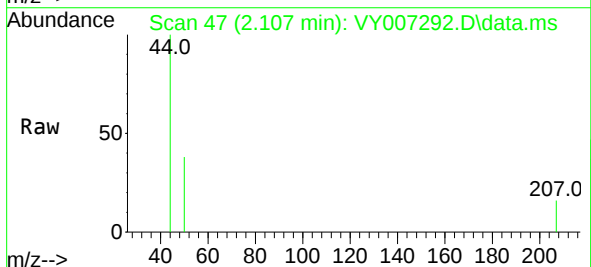
Instrument :
MSVOA_Y
ClientSampleId :

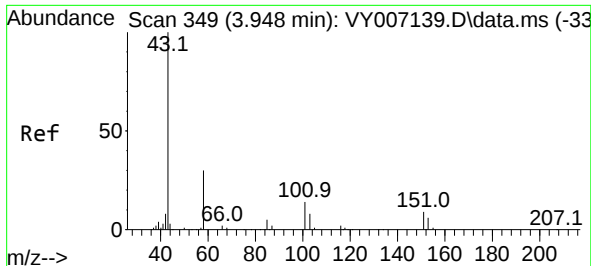
Tgt Ion:168 Resp: 24461
Ion Ratio Lower Upper
168 100
99 55.8 49.1 73.7



#3
Chloromethane
Concen: 1.123 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

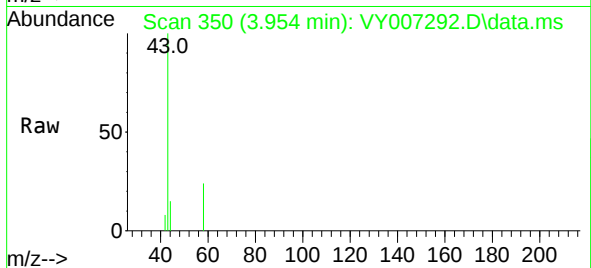
Tgt Ion: 50 Resp: 202
Ion Ratio Lower Upper
50 100
52 0.0 27.1 40.7#



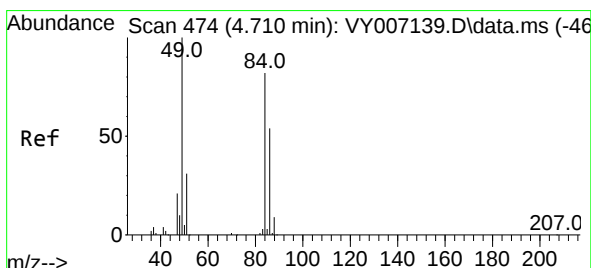
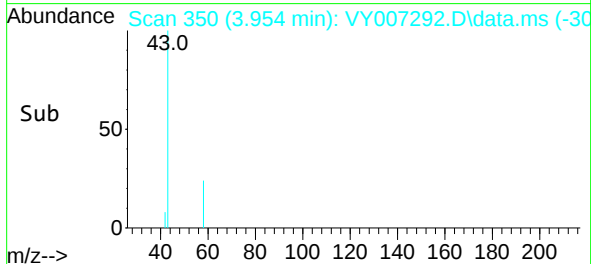
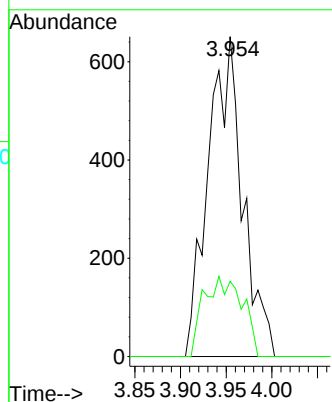


#16
Acetone
Concen: 21.837 ug/l
RT: 3.954 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Instrument :
MSVOA_Y
ClientSampleId :

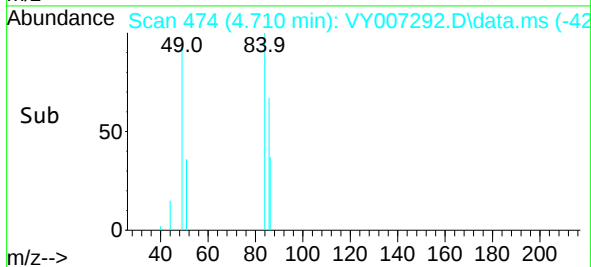
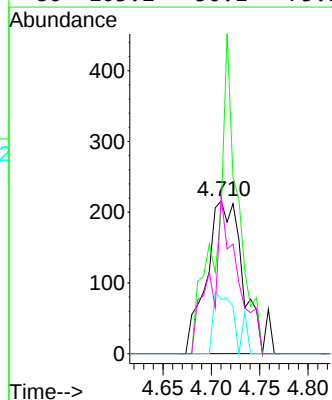
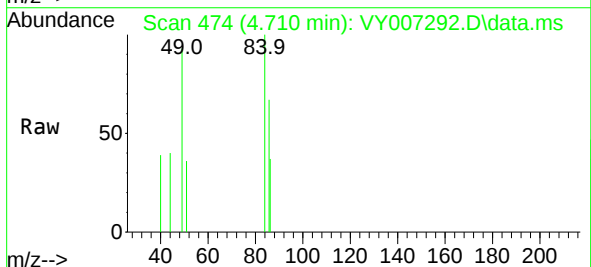


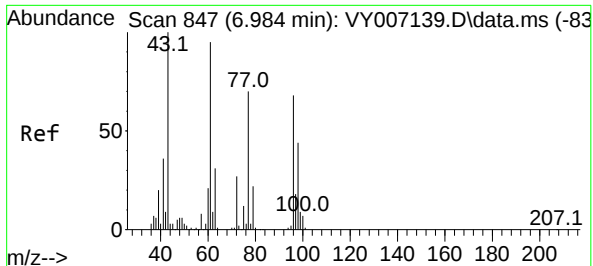
Tgt Ion: 43 Resp: 1701
Ion Ratio Lower Upper
43 100
58 23.5 23.8 35.6#



#20
Methylene Chloride
Concen: 1.788 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 84 Resp: 576
Ion Ratio Lower Upper
84 100
49 93.1 92.6 139.0
51 35.6 28.6 42.8
86 103.2 50.1 75.1#





#25

2-Butanone

Concen: 4.379 ug/l

RT: 7.002 min Scan# 81

Delta R.T. 0.019 min

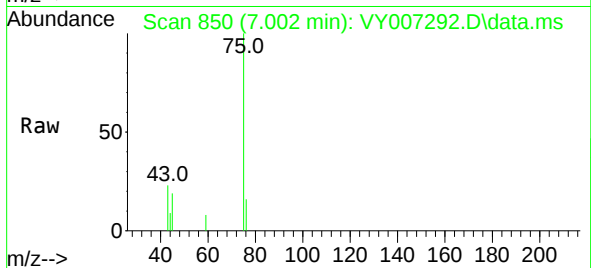
Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :

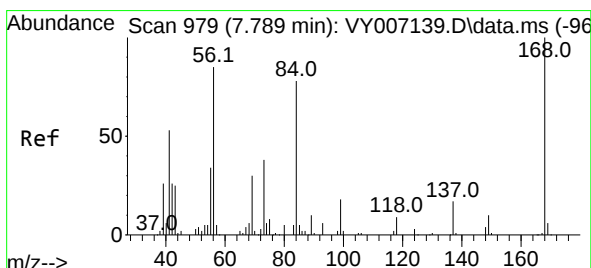
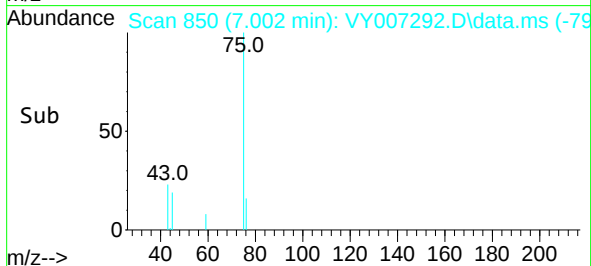
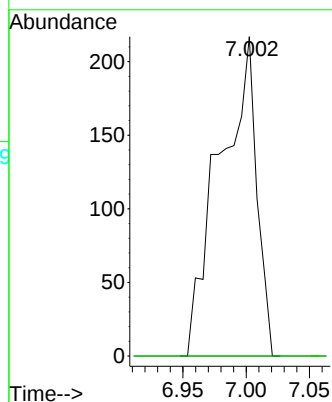


Tgt Ion: 43 Resp: 441

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



#31

Cyclohexane

Concen: 1.295 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

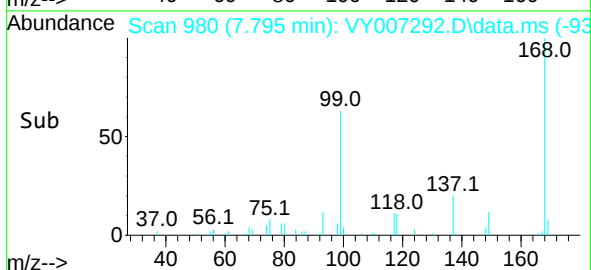
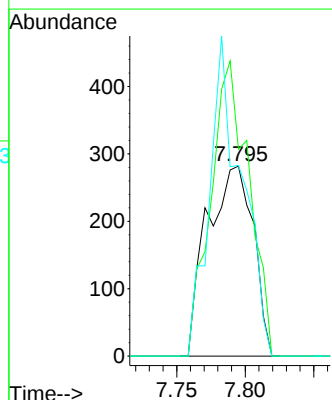
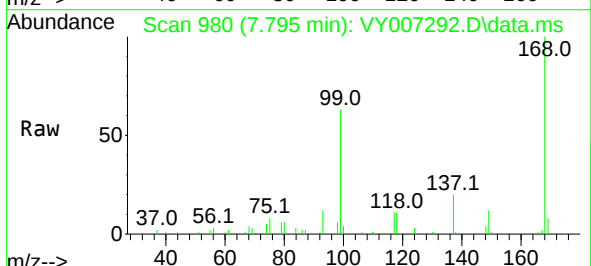
Tgt Ion: 56 Resp: 657

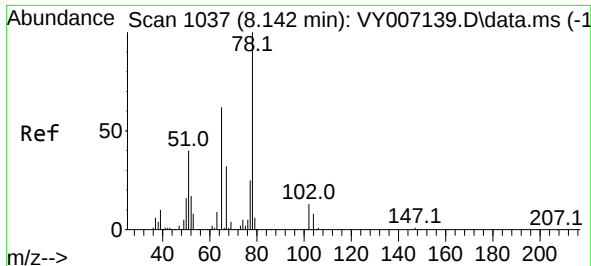
Ion Ratio Lower Upper

56 100

69 108.9 27.2 40.8#

84 100.4 72.1 108.1

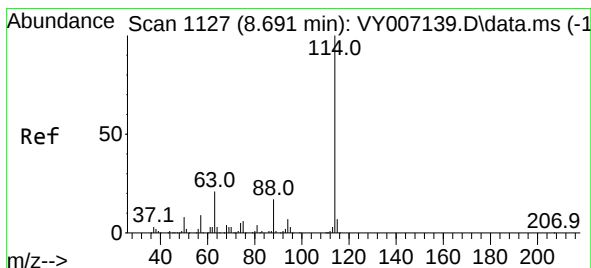
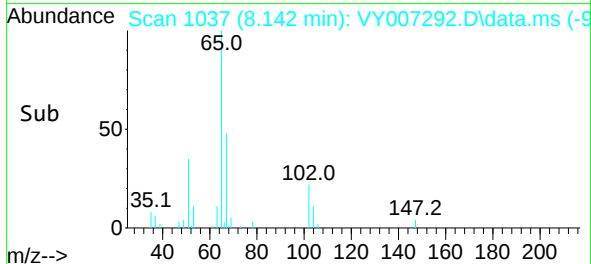
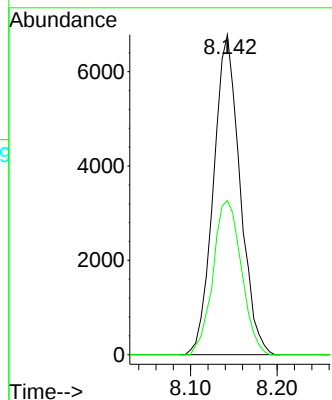
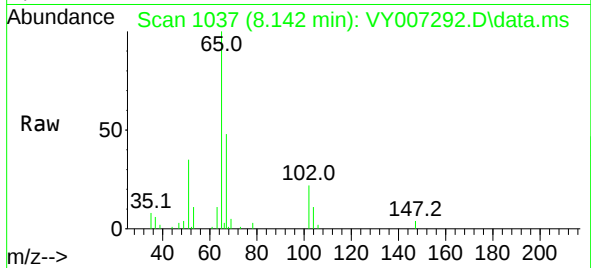




#33
 1,2-Dichloroethane-d4
 Concen: 48.098 ug/l
 RT: 8.142 min Scan# 1037
 Delta R.T. 0.000 min
 Lab File: VY007292.D
 Acq: 25 Jan 2022 14:19

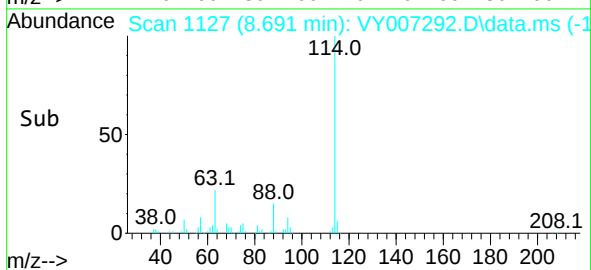
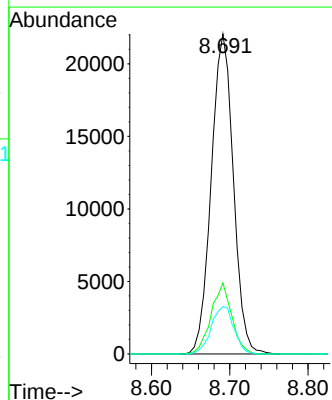
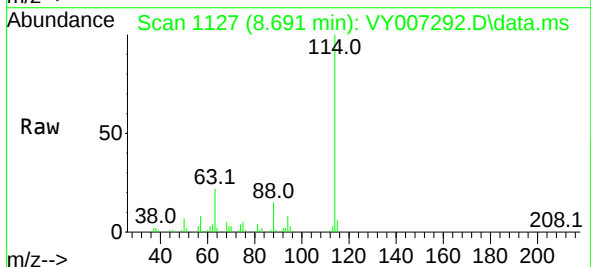
Instrument :
 MSVOA_Y
 ClientSampleId :

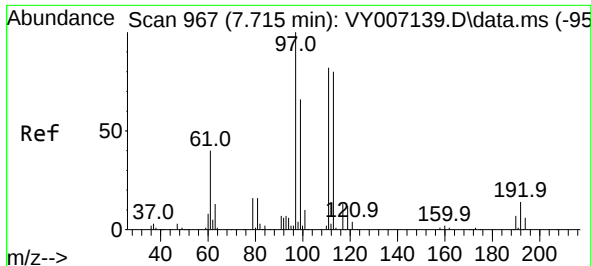
Tgt Ion: 65 Resp: 14436
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY007292.D
 Acq: 25 Jan 2022 14:19

Tgt Ion: 114 Resp: 43222
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 39.2
 88 14.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.485 ug/l

RT: 7.722 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :

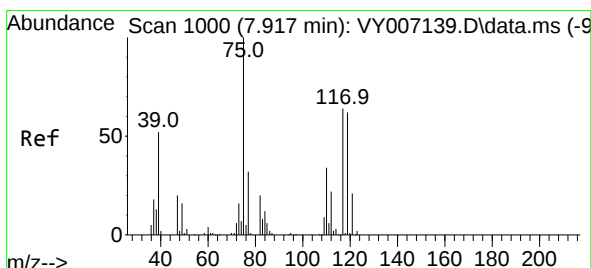
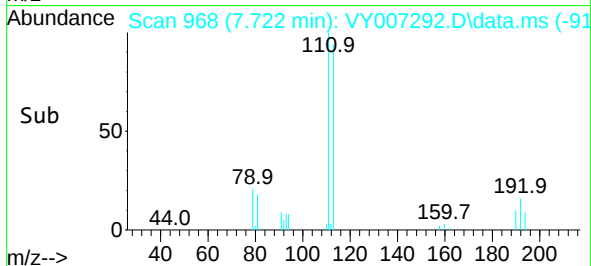
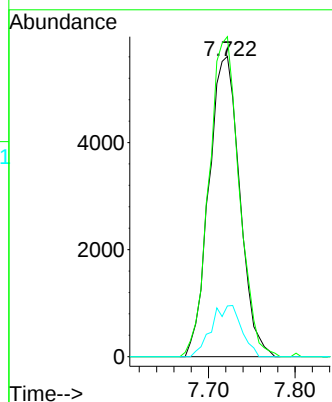
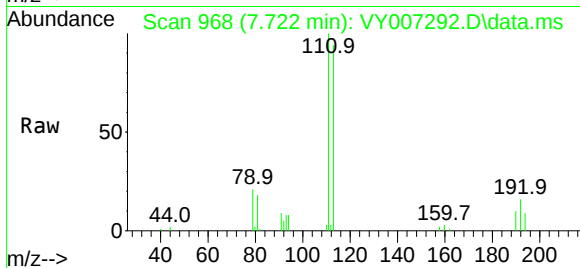
Tgt Ion:113 Resp: 13878

Ion Ratio Lower Upper

113 100

111 104.2 82.2 123.4

192 16.5 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.330 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.128 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

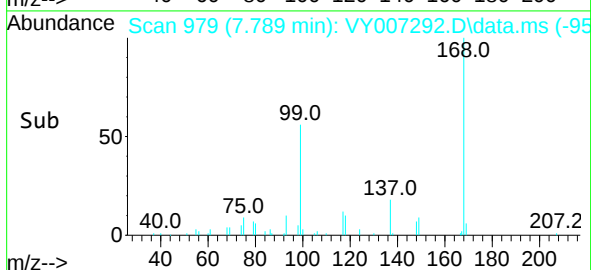
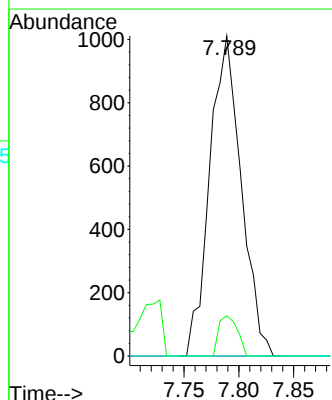
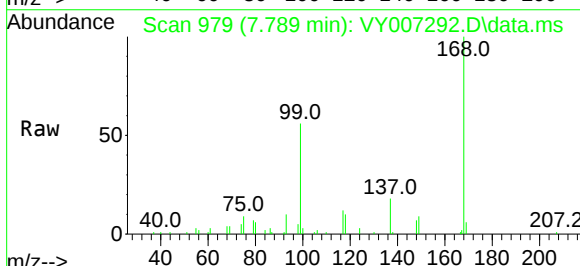
Tgt Ion: 75 Resp: 2021

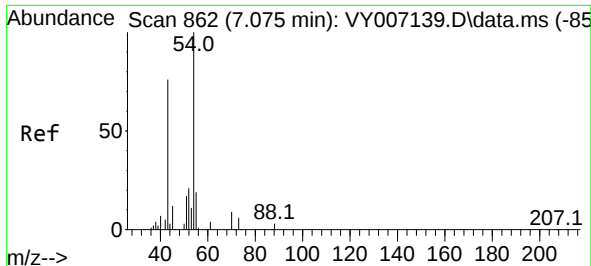
Ion Ratio Lower Upper

75 100

110 7.5 17.3 51.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.841 ug/l

RT: 7.002 min Scan# 81

Delta R.T. -0.073 min

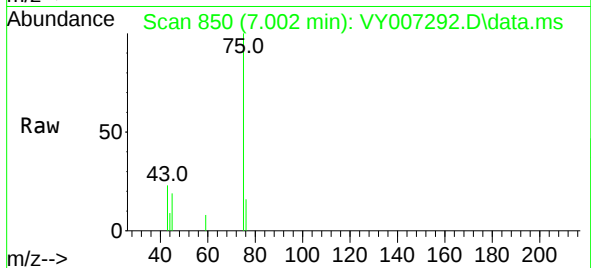
Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

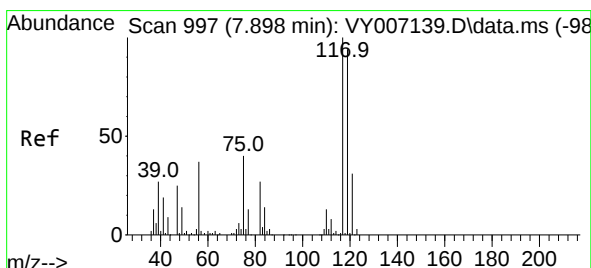
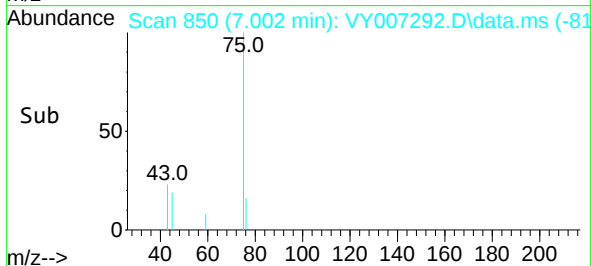
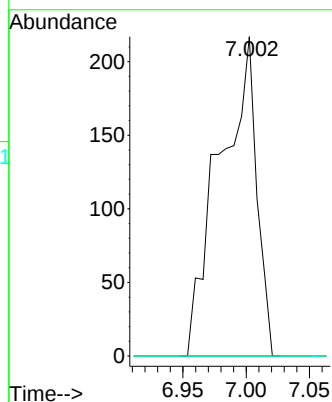
Instrument :

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Tgt Ion:	43	Resp:	441
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.8#
70	0.0	9.0	13.4#



#38

Carbon Tetrachloride

Concen: 5.404 ug/l

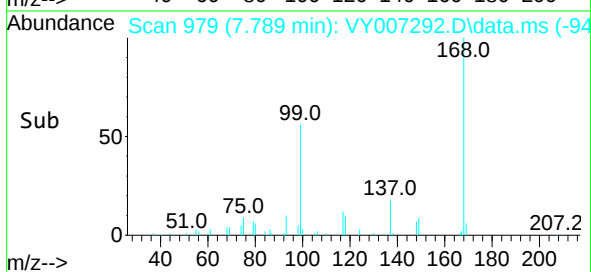
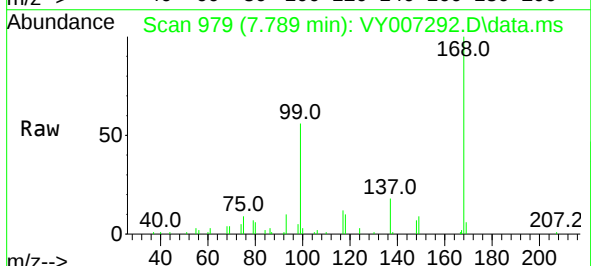
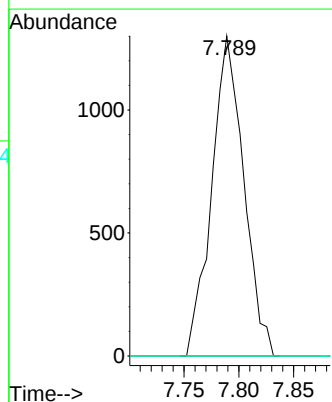
RT: 7.789 min Scan# 979

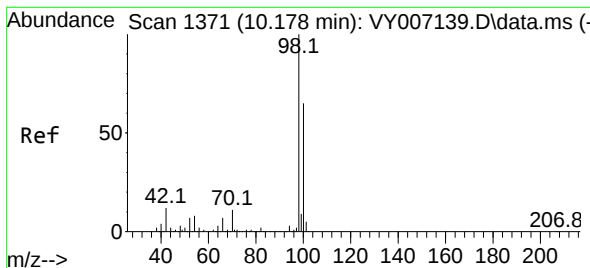
Delta R.T. -0.109 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Tgt Ion:	117	Resp:	2653
Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.2	115.8#
121	0.0	24.2	36.2#

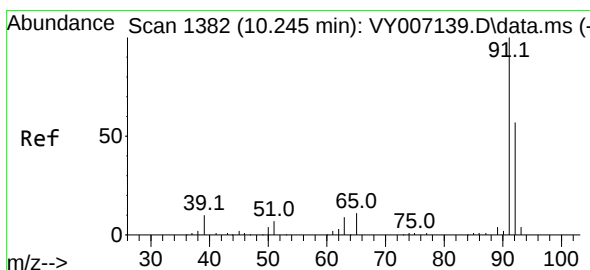
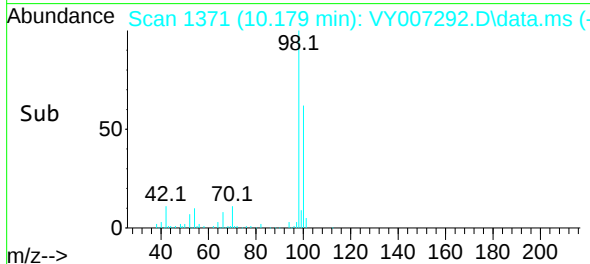
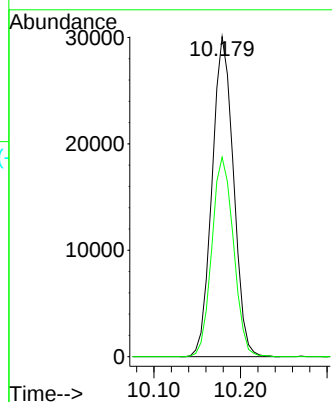
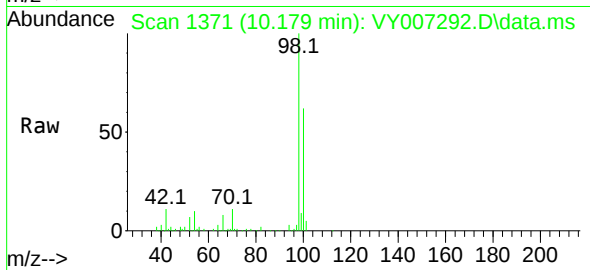




#50
Toluene-d8
Concen: 48.399 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

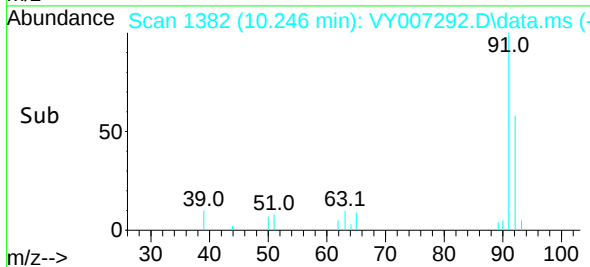
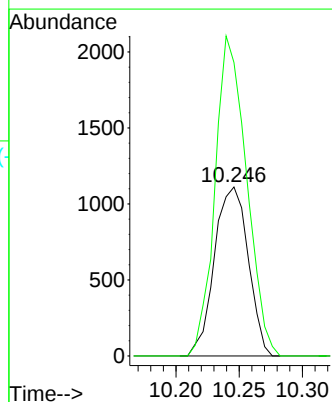
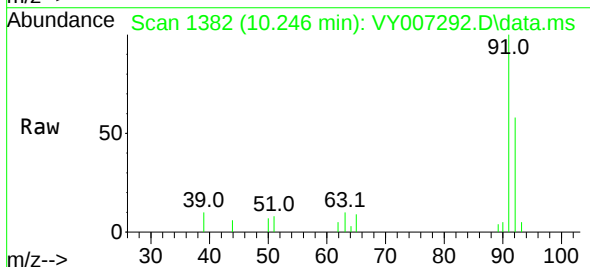
Instrument :
MSVOA_Y
ClientSampleId :

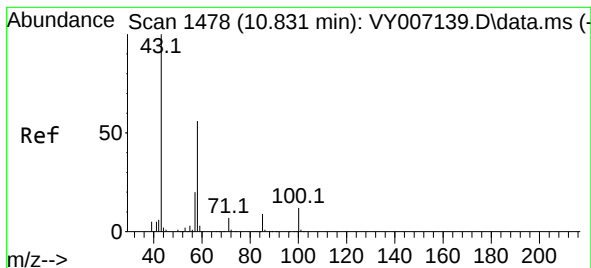
Tgt Ion: 98 Resp: 51686
Ion Ratio Lower Upper
98 100
100 63.0 52.2 78.2



#52
Toluene
Concen: 2.618 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 92 Resp: 2066
Ion Ratio Lower Upper
92 100
91 176.3 138.6 207.8

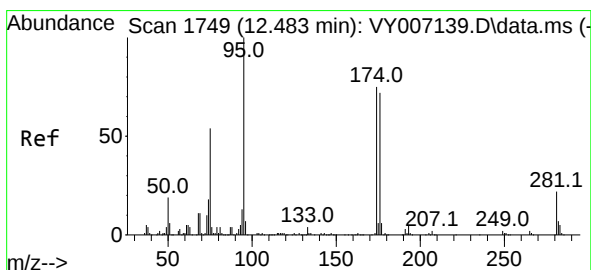
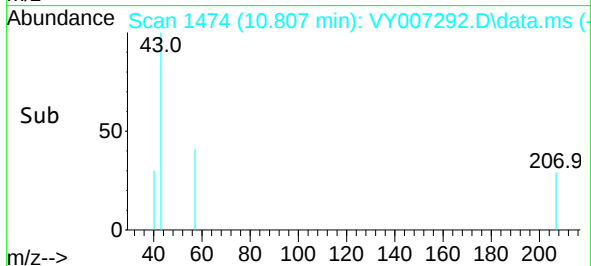
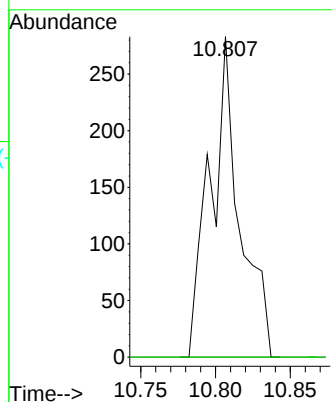
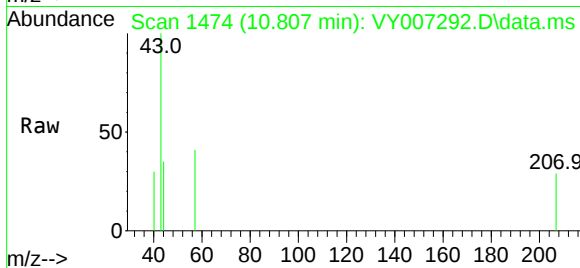




#59
2-Hexanone
Concen: 2.407 ug/l
RT: 10.807 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

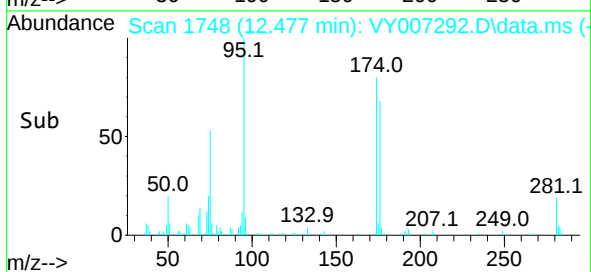
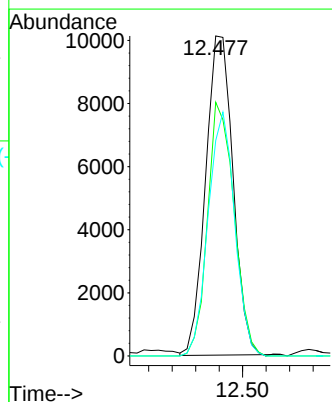
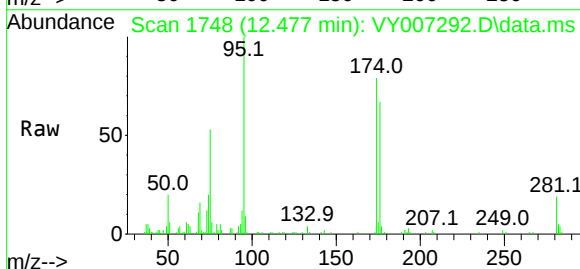
Instrument :
MSVOA_Y
ClientSampleId :

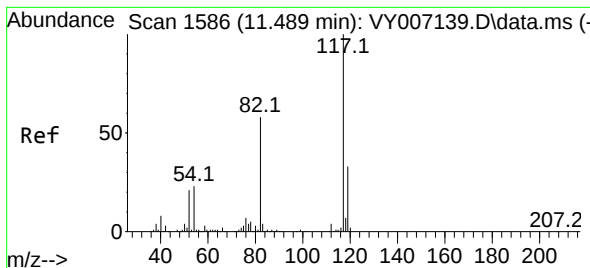
Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 43.225 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 95 Resp: 16420
Ion Ratio Lower Upper
95 100
174 76.9 0.0 148.4
176 73.8 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY007292.D

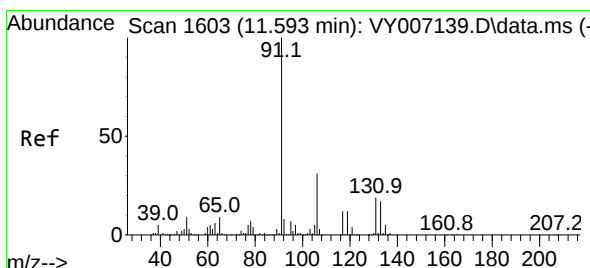
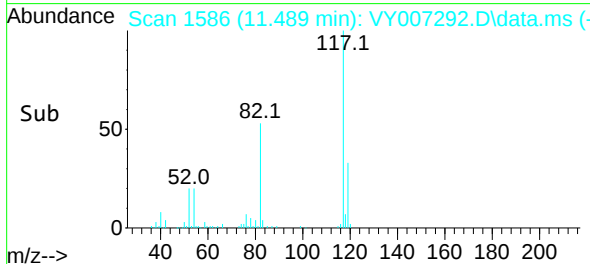
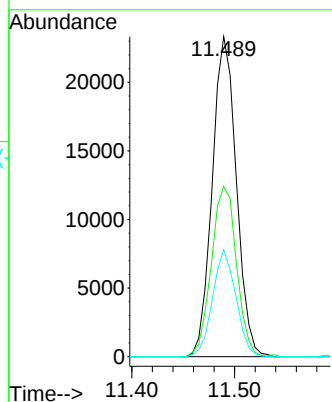
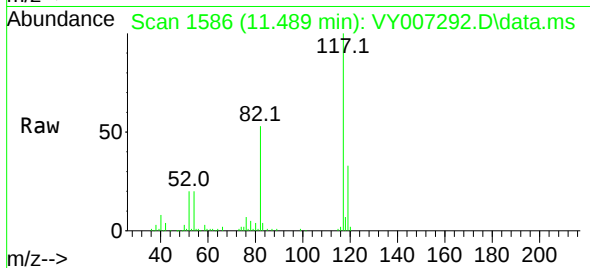
Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	37947
Ion	Ratio	Lower Upper
117	100	
82	53.1	45.4 68.0
119	33.4	26.4 39.6



#67

Ethyl Benzene

Concen: 19.180 ug/l

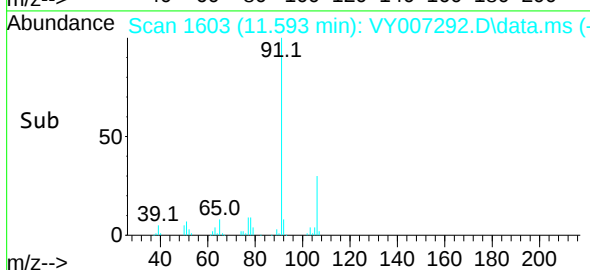
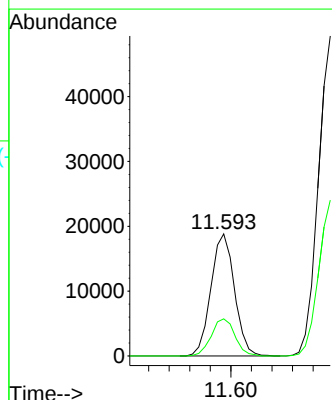
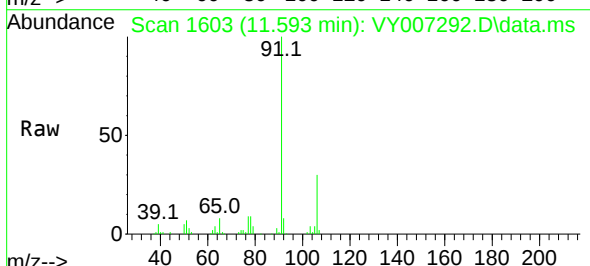
RT: 11.593 min Scan# 1603

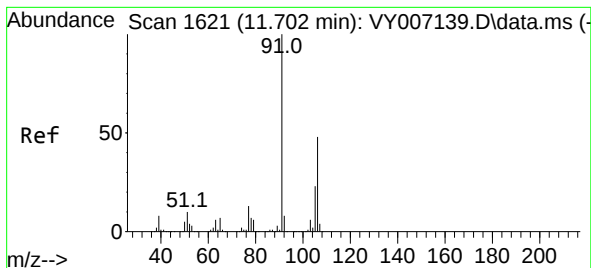
Delta R.T. 0.000 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Tgt Ion: 91	Resp:	29911
Ion	Ratio	Lower Upper
91	100	
106	30.4	23.9 35.9





#68

m/p-Xylenes

Concen: 72.710 ug/l

RT: 11.697 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

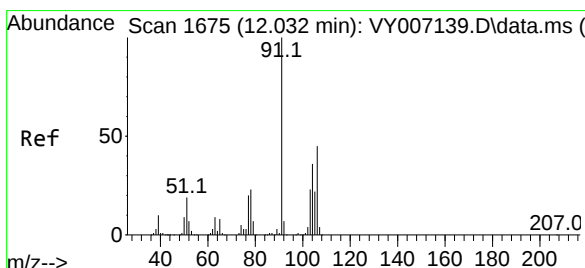
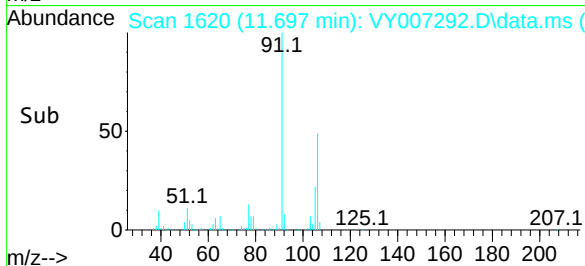
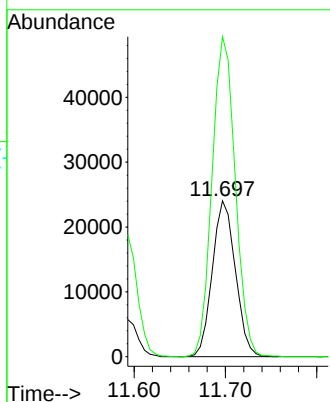
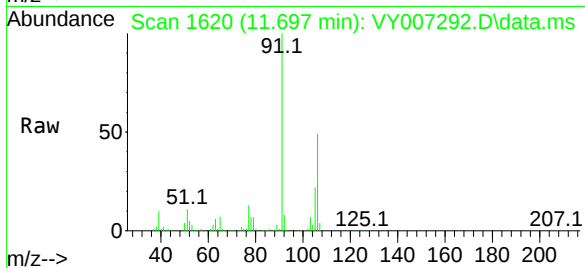
ClientSampleId :

Tgt Ion:106 Resp: 42138

Ion Ratio Lower Upper

106 100

91 206.9 167.1 250.7



#69

o-Xylene

Concen: 29.033 ug/l

RT: 12.032 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VY007292.D

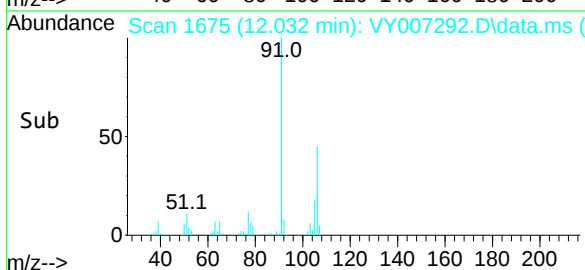
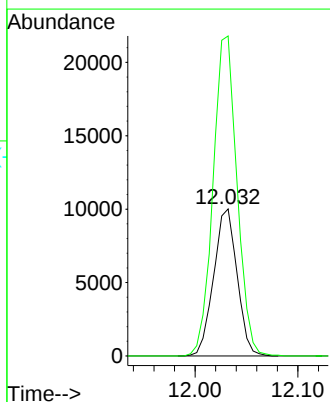
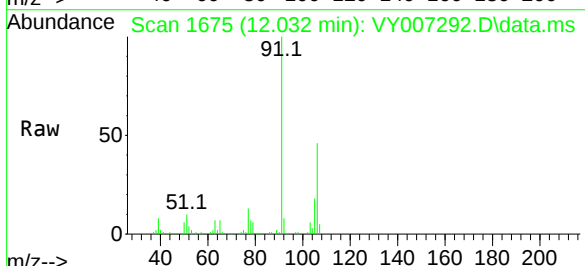
Acq: 25 Jan 2022 14:19

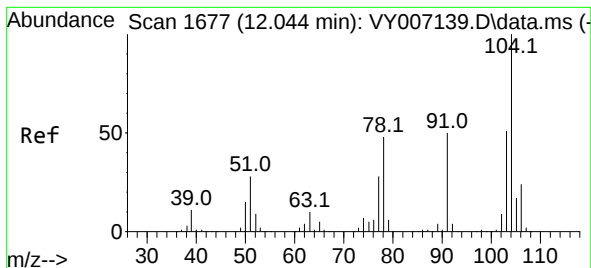
Tgt Ion:106 Resp: 15845

Ion Ratio Lower Upper

106 100

91 222.2 109.9 329.6





#70

Styrene

Concen: 1.208 ug/l

RT: 12.038 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY007292.D

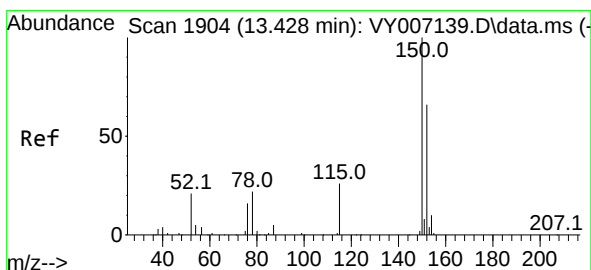
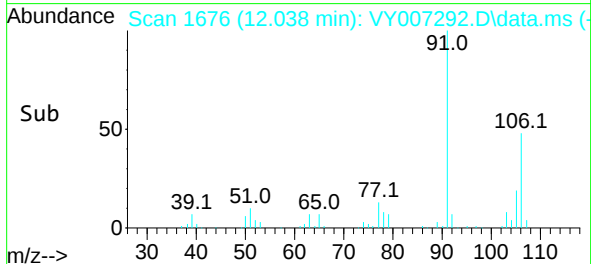
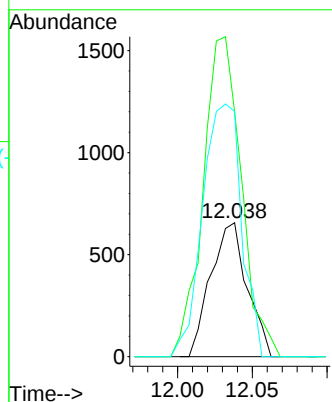
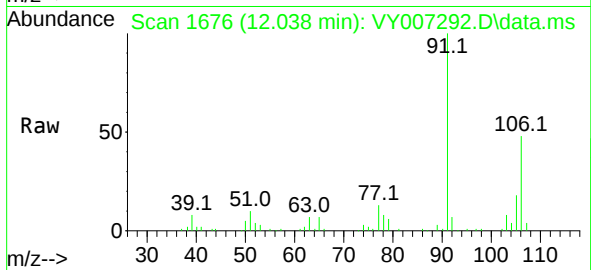
Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	1112
Ion Ratio	Lower	Upper
104	100	
78	250.1	41.4 62.0#
103	202.0	44.2 66.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

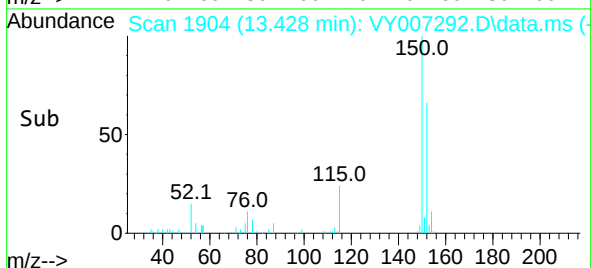
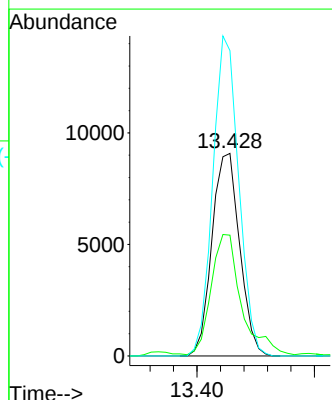
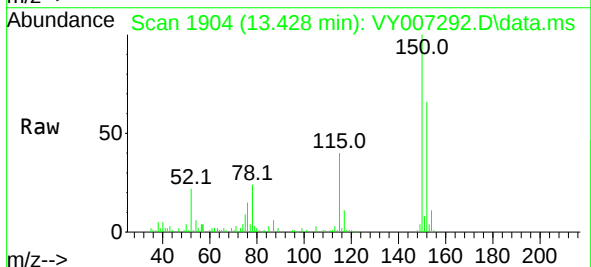
RT: 13.428 min Scan# 1904

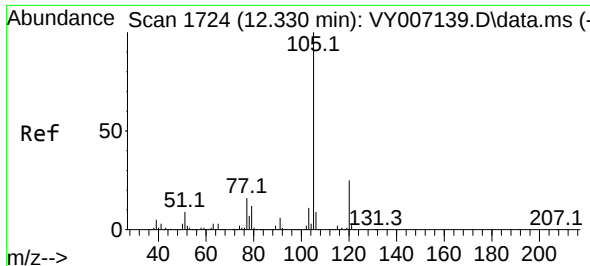
Delta R.T. 0.000 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Tgt Ion:152	Resp:	14864
Ion Ratio	Lower	Upper
152	100	
115	64.6	31.4 94.0
150	148.0	0.0 348.4

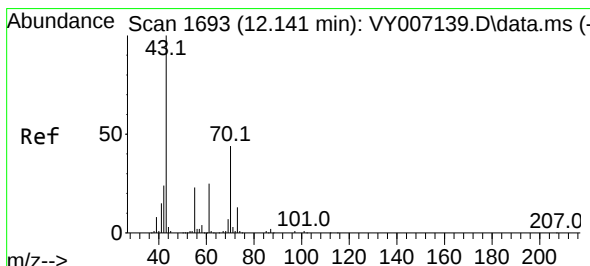
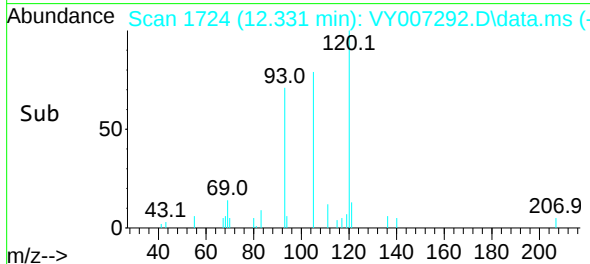
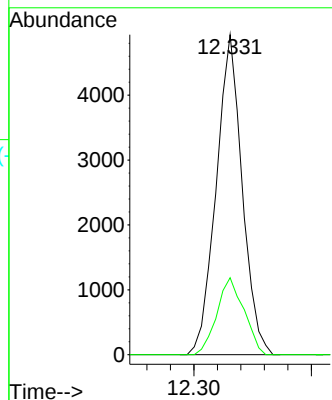
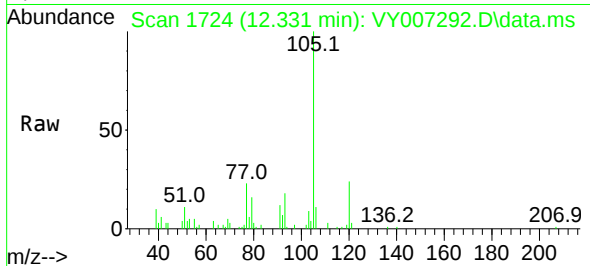




#73
Isopropylbenzene
Concen: 5.907 ug/l
RT: 12.331 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

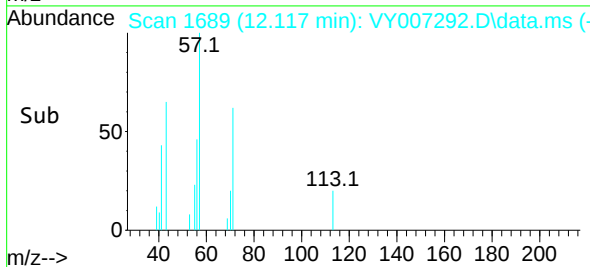
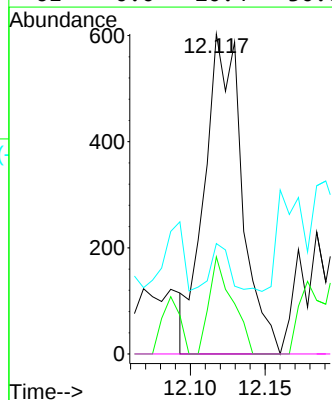
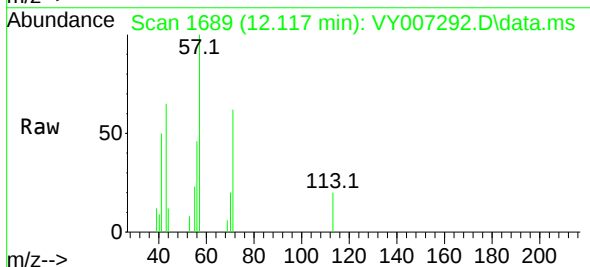
Instrument :
MSVOA_Y
ClientSampleId :

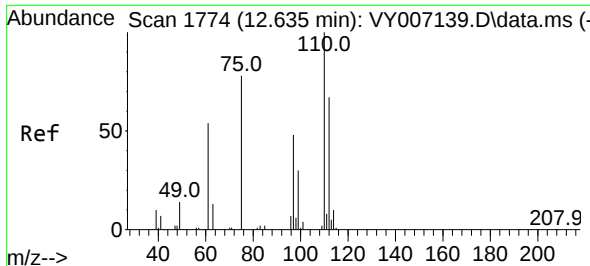
Tgt Ion:105 Resp: 7583
Ion Ratio Lower Upper
105 100
120 25.0 13.1 39.1



#74
N-ethyl acetate
Concen: 3.050 ug/l
RT: 12.117 min Scan# 1689
Delta R.T. -0.024 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 43 Resp: 1047
Ion Ratio Lower Upper
43 100
70 18.9 36.2 54.4#
55 9.6 19.0 28.4#
61 0.0 20.4 30.6#

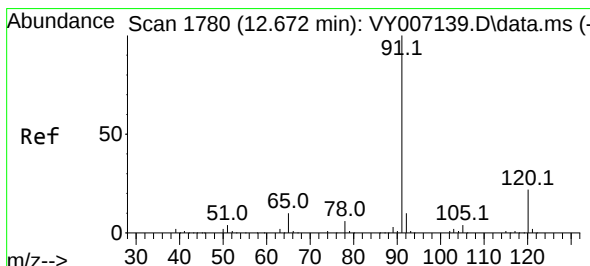
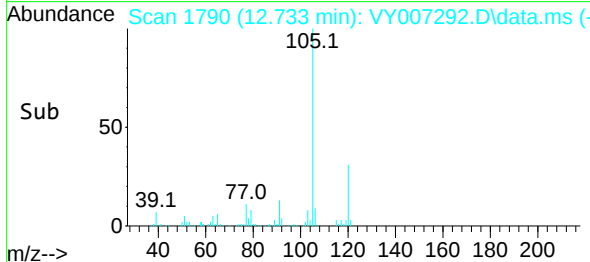
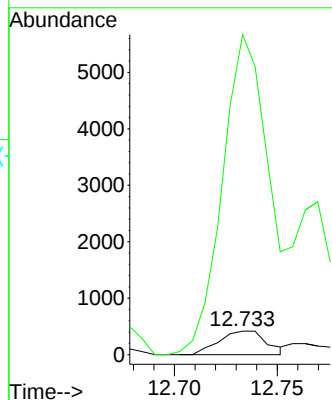
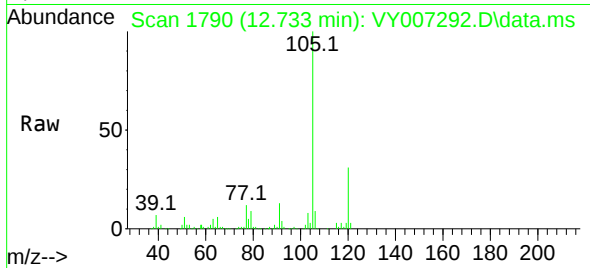




#76
1,2,3-Trichloropropane
Concen: 3.994 ug/l
RT: 12.733 min Scan# 1774
Delta R.T. 0.098 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

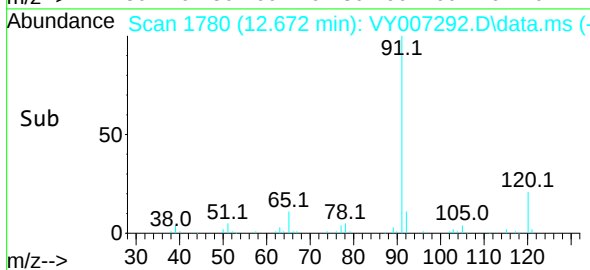
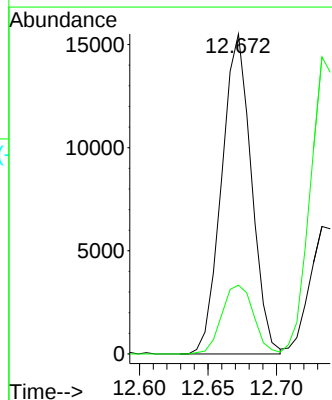
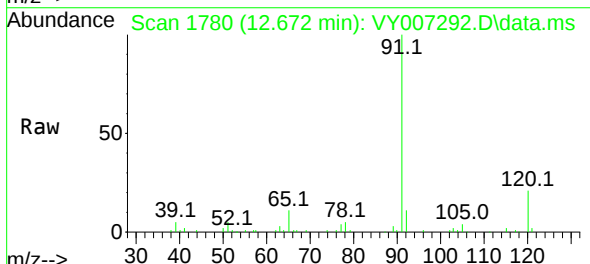
Instrument :
MSVOA_Y
ClientSampleId :

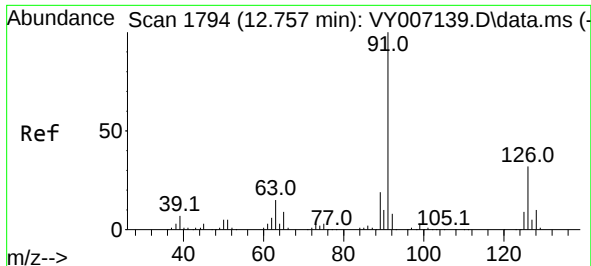
Tgt Ion: 75 Resp: 677
Ion Ratio Lower Upper
75 100
77 1395.0 0.0 0.0#



#78
n-propylbenzene
Concen: 14.727 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 91 Resp: 23437
Ion Ratio Lower Upper
91 100
120 23.0 11.2 33.5





#79

2-Chlorotoluene

Concen: 10.830 ug/l

RT: 12.733 min Scan# 11

Delta R.T. -0.024 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

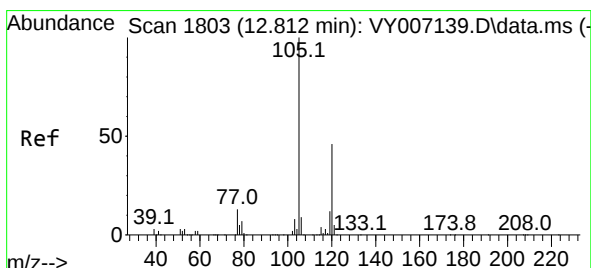
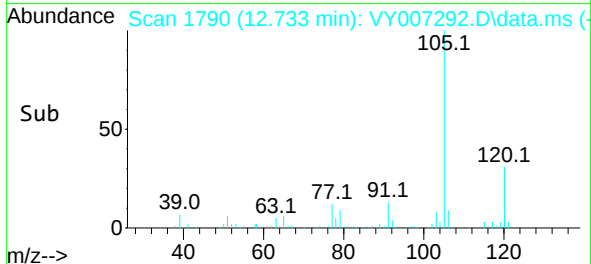
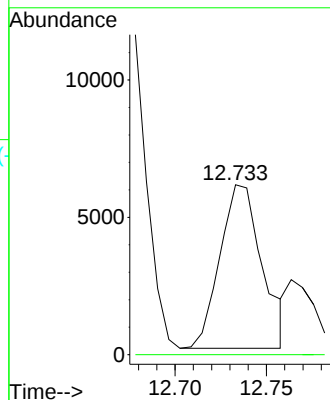
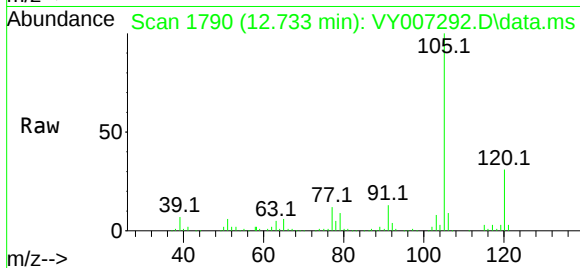
ClientSampleId :

Tgt Ion: 91 Resp: 9583

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#



#80

1,3,5-Trimethylbenzene

Concen: 37.642 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY007292.D

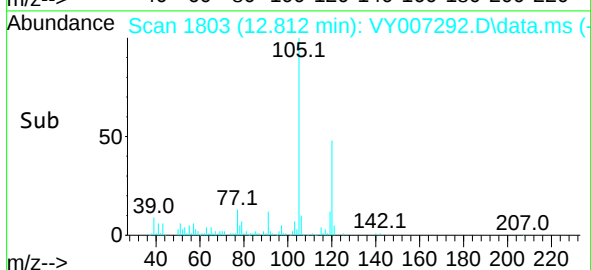
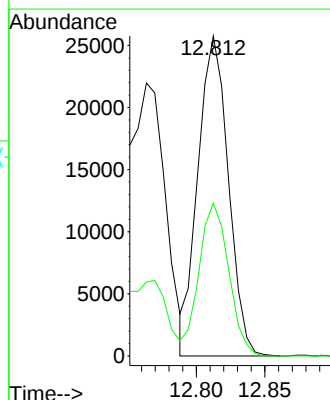
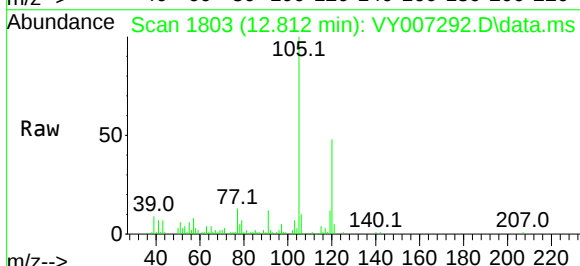
Acq: 25 Jan 2022 14:19

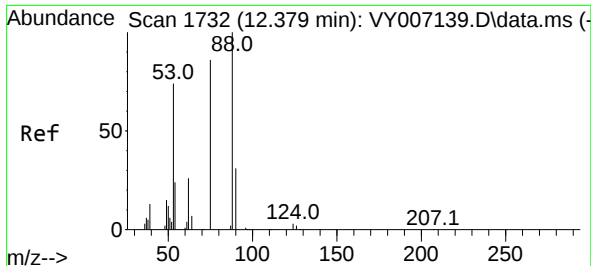
Tgt Ion:105 Resp: 39679

Ion Ratio Lower Upper

105 100

120 46.7 23.7 71.1

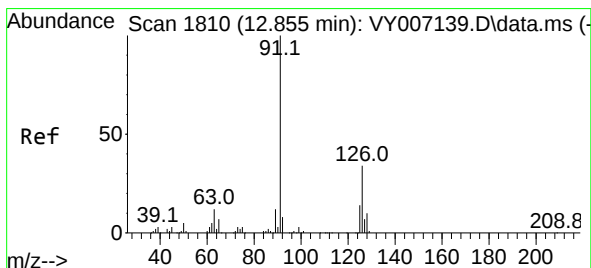
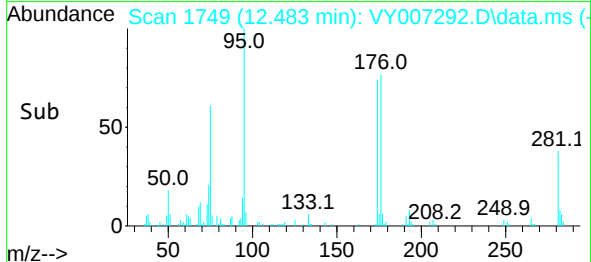
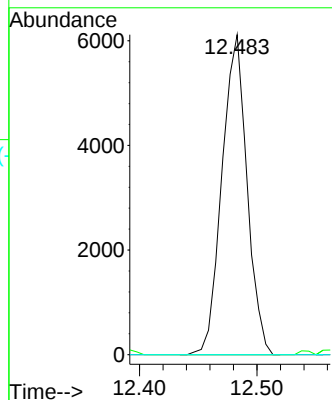
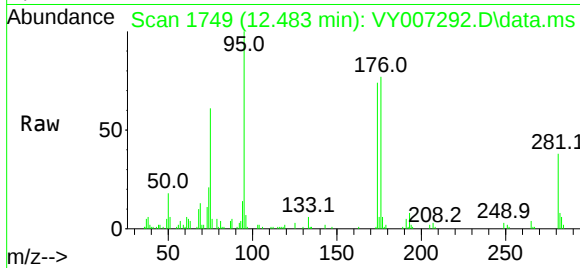




#81
trans-1,4-Dichloro-2-butene
Concen: 97.904 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

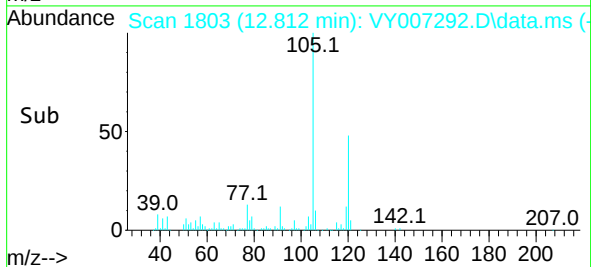
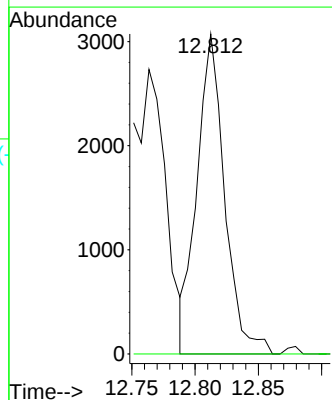
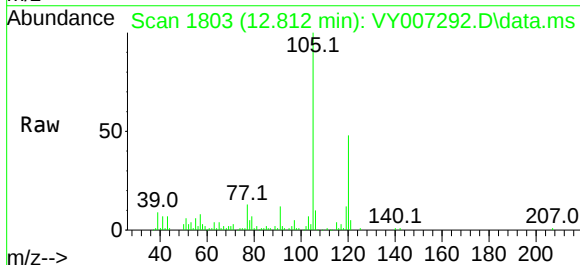
Instrument :
MSVOA_Y
ClientSampleId :

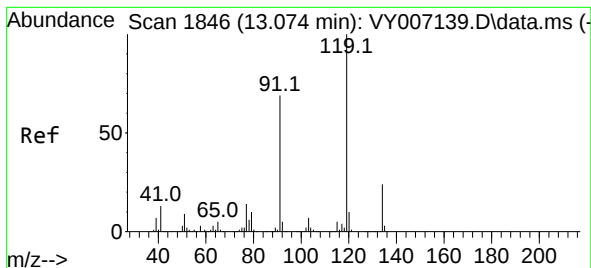
Tgt Ion: 75 Resp: 9064
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 0.0 0.0



#82
4-Chlorotoluene
Concen: 5.063 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.042 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 91 Resp: 4673
Ion Ratio Lower Upper
91 100
126 0.0 16.3 48.9#





#83

tert-Butylbenzene

Concen: 14.694 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.043 min

Lab File: VY007292.D

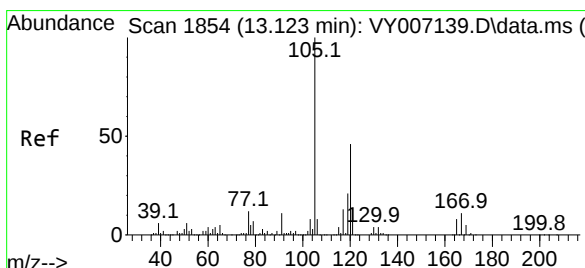
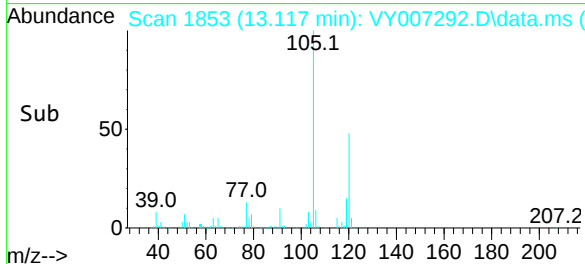
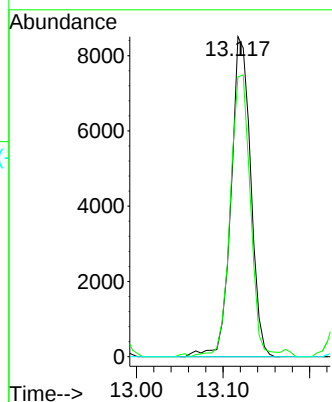
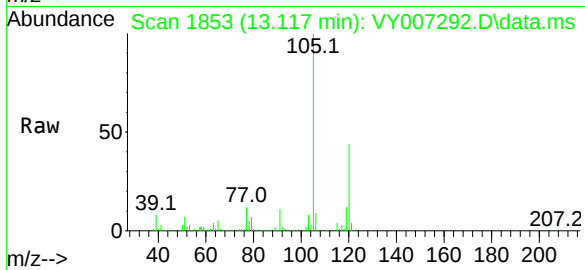
Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:119	Resp:	13384
Ion Ratio	Lower	Upper
119	100	
91	90.4	33.1 99.5
134	0.0	12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 104.709 ug/l

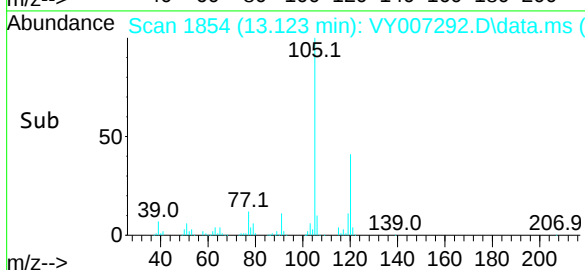
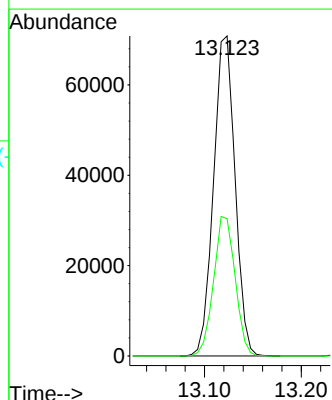
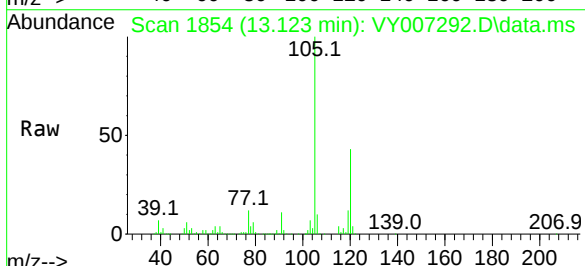
RT: 13.123 min Scan# 1854

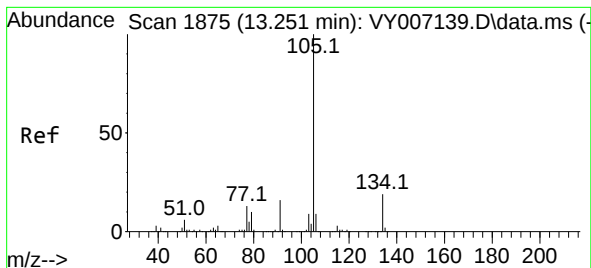
Delta R.T. 0.000 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Tgt Ion:105	Resp:	109406
Ion Ratio	Lower	Upper
105	100	
120	43.6	21.6 64.6





#85

sec-Butylbenzene

Concen: 80.289 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.128 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

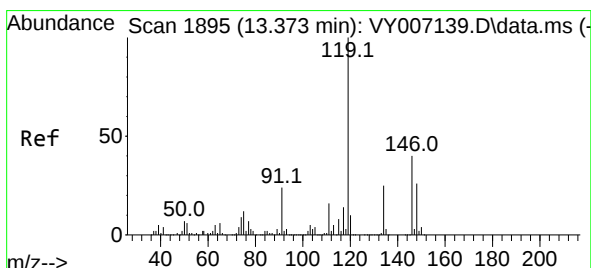
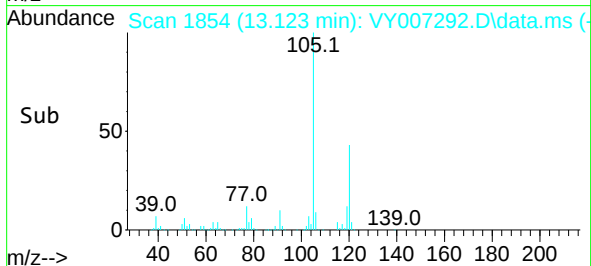
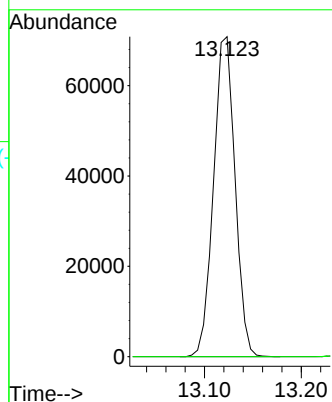
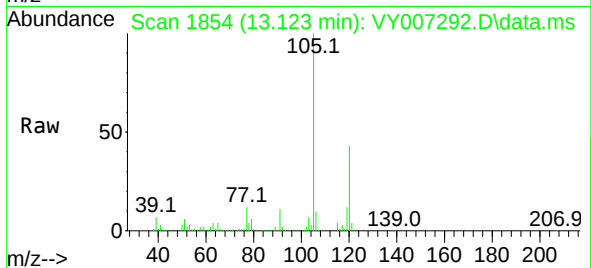
ClientSampleId :

Tgt Ion:105 Resp: 109406

Ion Ratio Lower Upper

105 100

134 0.0 9.9 29.7#



#86

p-Isopropyltoluene

Concen: 2.978 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.006 min

Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

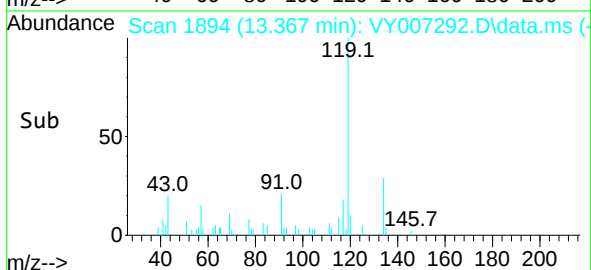
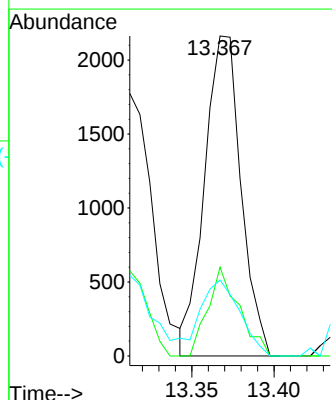
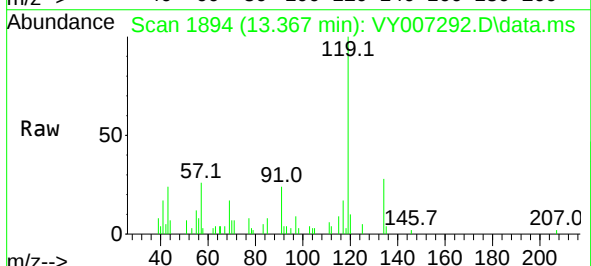
Tgt Ion:119 Resp: 3335

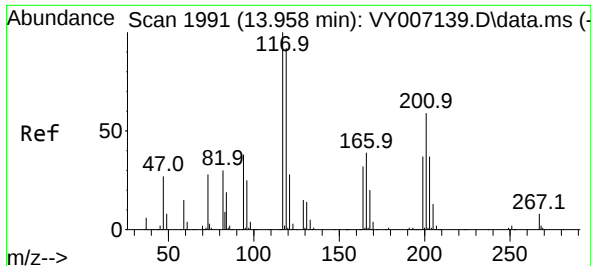
Ion Ratio Lower Upper

119 100

134 23.7 12.9 38.7

91 24.3 12.4 37.2

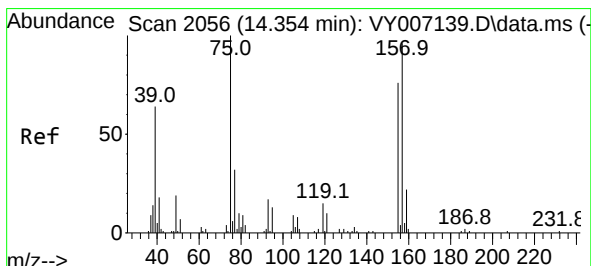
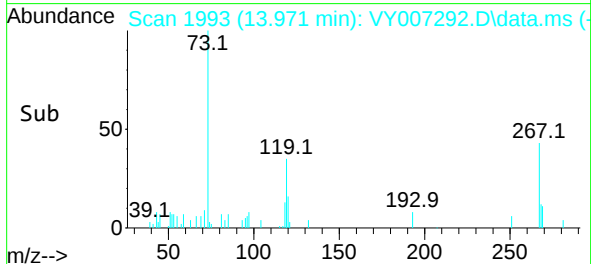
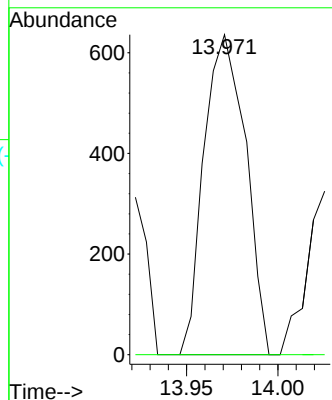
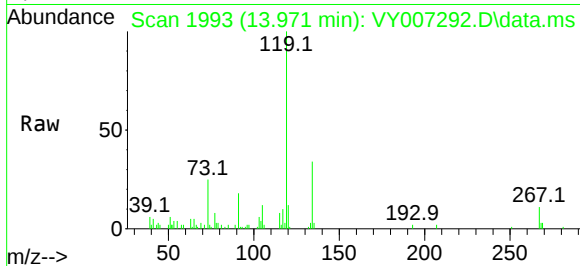




#90
Hexachloroethane
Concen: 4.618 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.013 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

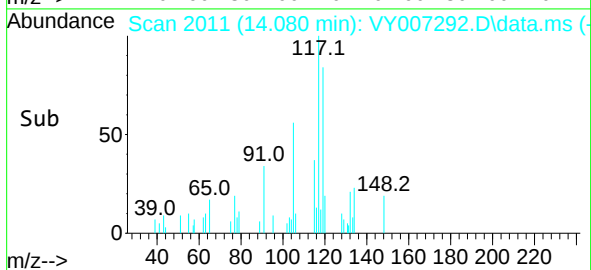
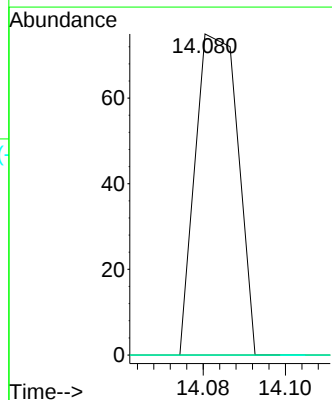
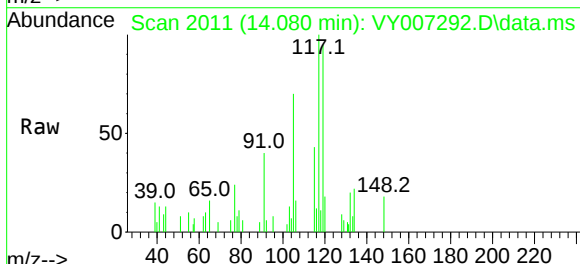
Instrument :
MSVOA_Y
ClientSampleId :

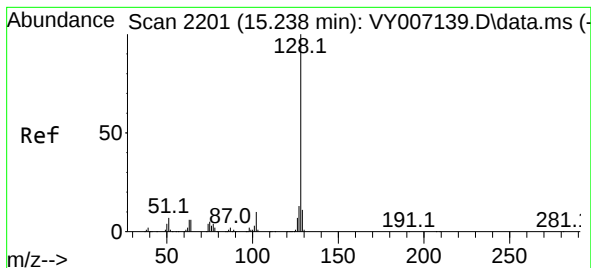
Tgt Ion:117 Resp: 1011
Ion Ratio Lower Upper
117 100
201 0.0 33.6 100.6#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.252 ug/l
RT: 14.080 min Scan# 2011
Delta R.T. -0.274 min
Lab File: VY007292.D
Acq: 25 Jan 2022 14:19

Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
155 0.0 40.1 120.2#
157 0.0 51.7 155.2#





#95

Naphthalene

Concen: 13.874 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.006 min

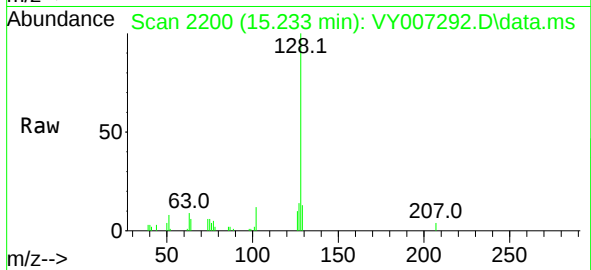
Lab File: VY007292.D

Acq: 25 Jan 2022 14:19

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 8718

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

129 12.7 8.9 13.3

