

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110321\
 Data File : VY006607.D
 Acq On : 03 Nov 2021 17:07
 Operator : SY/MD
 Sample : M4427-08RE
 Misc : 5.26G/5ML/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 FDR-BH-2-20211029-6.5-7RE

Quant Time: Nov 03 21:22:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102221S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 23 06:59:04 2021
 Response via : Initial Calibration

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

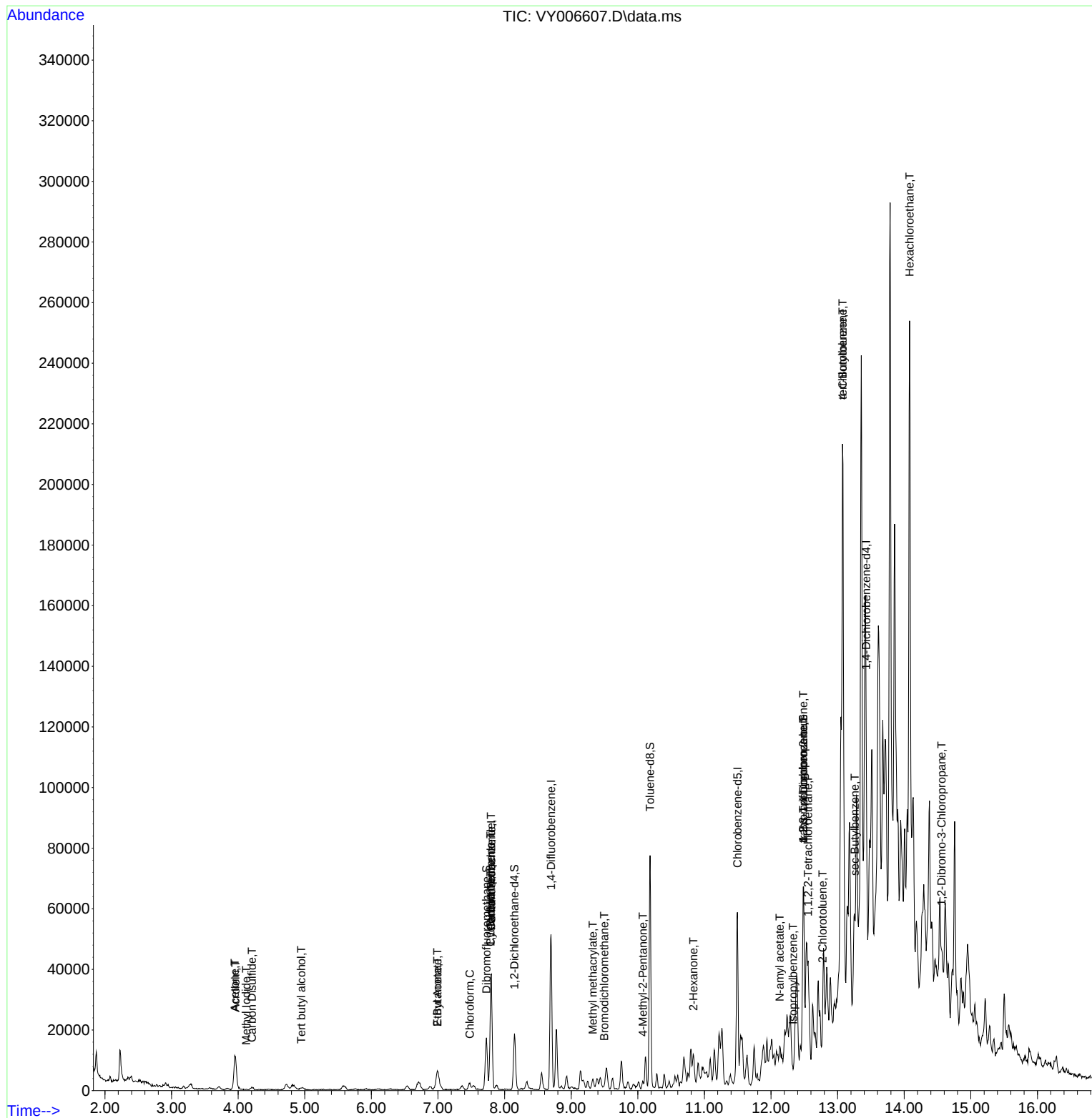
Internal Standards						
1) Pentafluorobenzene	7.801	168	28221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	41977	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	26919	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	3976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	14550	41.897	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	83.800%		
35) Dibromofluoromethane	7.728	113	11844	50.622	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.240%		
50) Toluene-d8	10.185	98	47711	48.104	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	96.200%		
62) 4-Bromofluorobenzene	12.483	95	8540	25.561	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	51.120%		
Target Compounds						Qvalue
10) Methyl Iodide	4.119	142	73	5.296	ug/l #	65
11) Tert butyl alcohol	4.948	59	1422	45.073	ug/l #	72
13) Acrolein	3.960	56	213	9.766	ug/l #	79
16) Acetone	3.948	43	18499	184.995	ug/l	99
17) Carbon Disulfide	4.204	76	998	1.194	ug/l #	75
20) Methylene Chloride	4.716	84	793	Below Cal	#	83
25) 2-Butanone	6.990	43	7188	54.868	ug/l #	86
30) Chloroform	7.478	83	1488	2.637	ug/l #	19
31) Cyclohexane	7.789	56	762	1.355	ug/l #	36
36) 1,1-Dichloropropene	7.789	75	2446	5.897	ug/l #	49
37) Ethyl Acetate	6.990	43	7188	27.384	ug/l #	72
38) Carbon Tetrachloride	7.795	117	2787	6.091	ug/l #	19
47) Bromodichloromethane	9.496	83	685	1.637	ug/l #	26
48) Methyl methacrylate	9.325	41	856	3.627	ug/l #	48
51) 4-Methyl-2-Pentanone	10.075	43	1767	6.620	ug/l #	83
59) 2-Hexanone	10.837	43	1096	5.673	ug/l	92
73) Isopropylbenzene	12.331	105	300	1.079	ug/l #	48
74) N-amyl acetate	12.130	43	724	7.847	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.556	83	8621	179.044	ug/l #	47
76) 1,2,3-Trichloropropane	12.483	75	4921	120.107	ug/l #	100
79) 2-Chlorotoluene	12.776	91	330	1.734	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.483	75	4921	246.576	ug/l #	11
82) 4-Chlorotoluene	13.075	91	35609	179.591	ug/l #	41
83) tert-Butylbenzene	13.075	119	49946	249.573	ug/l	98
85) sec-Butylbenzene	13.258	105	778	2.589	ug/l #	56
90) Hexachloroethane	14.081	117	4661	100.671	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.562	75	38	3.717	ug/l #	30

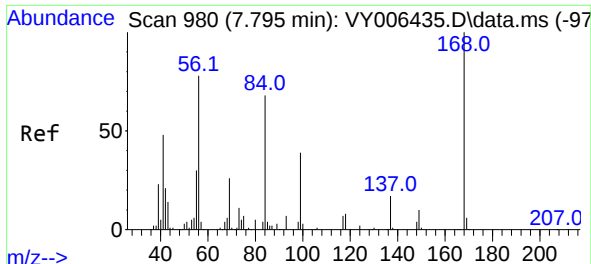
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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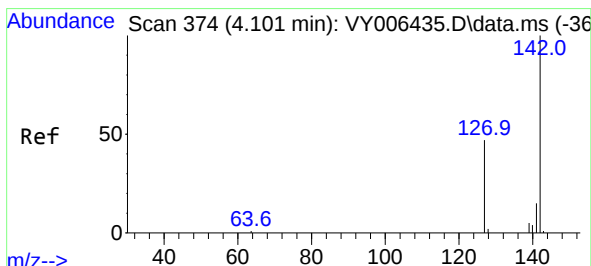
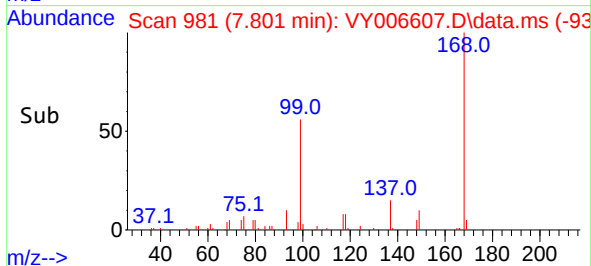
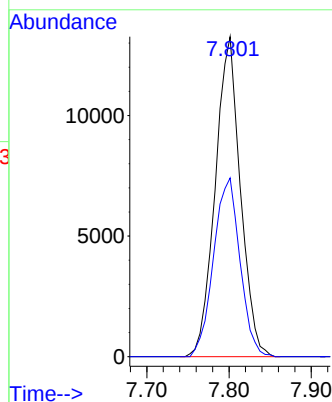
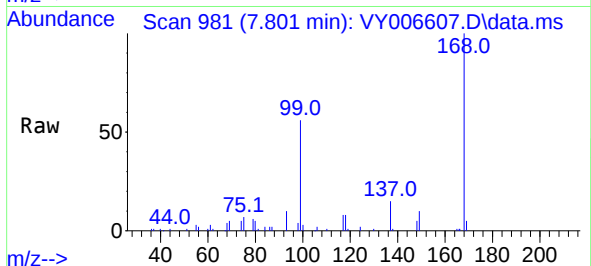




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

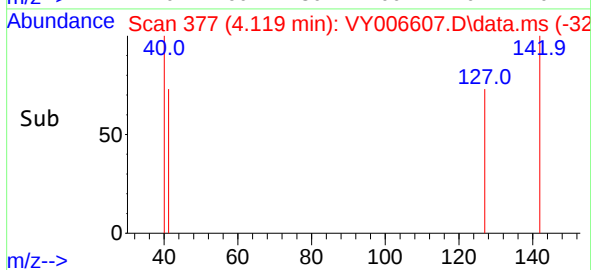
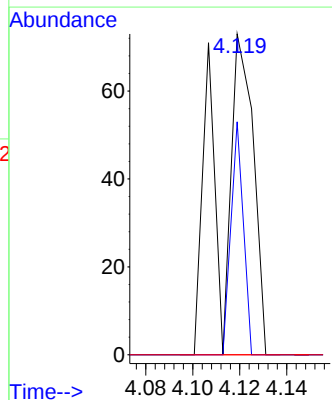
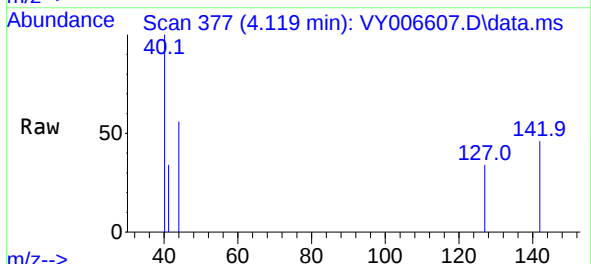
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

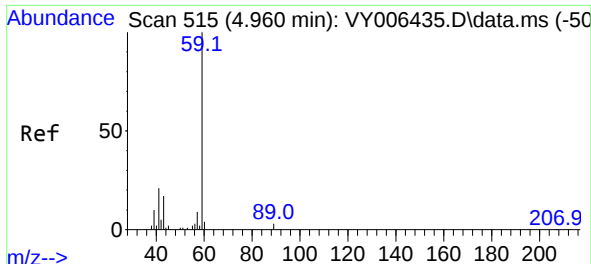
Tgt Ion:168 Resp: 28221
Ion Ratio Lower Upper
168 100
99 55.8 44.8 67.2



#10
Methyl Iodide
Concen: 5.296 ug/l
RT: 4.119 min Scan# 377
Delta R.T. 0.018 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 26.0 40.1 60.1#
141 0.0 12.5 18.7#

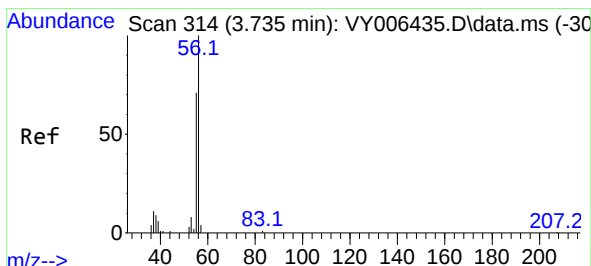
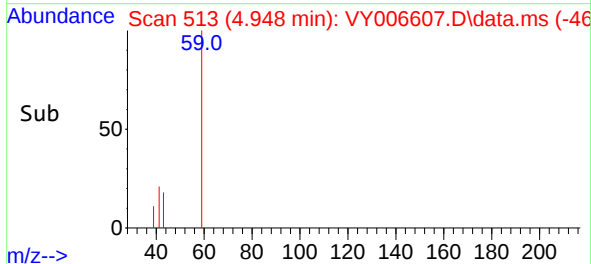
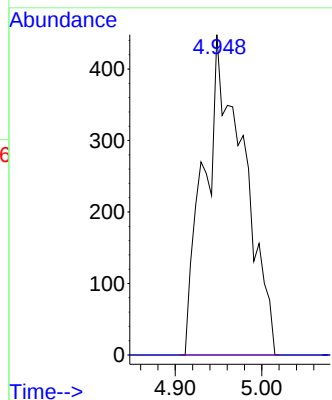
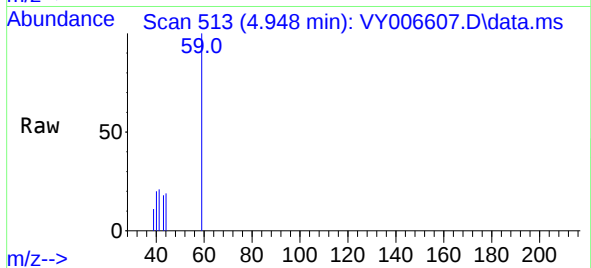




#11
Tert butyl alcohol
Concen: 45.073 ug/l
RT: 4.948 min Scan# 51
Delta R.T. -0.012 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

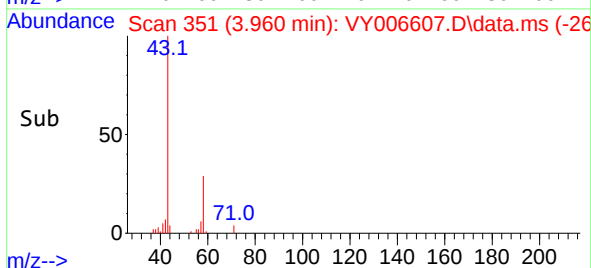
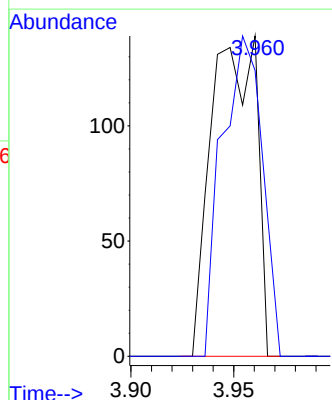
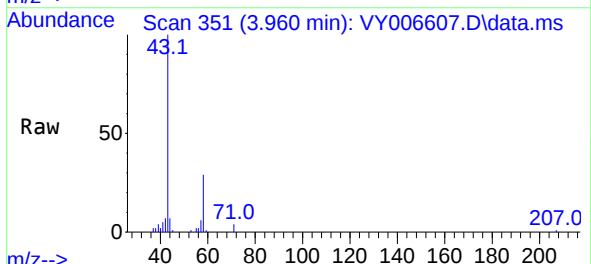
Instrument :
MSVOA_Y
ClientSampleId :
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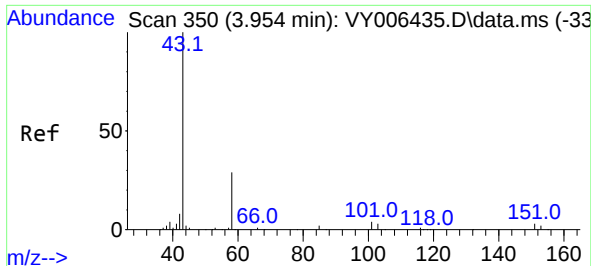
Tgt Ion: 59 Resp: 1422
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 9.766 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.226 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 56 Resp: 213
Ion Ratio Lower Upper
56 100
55 88.7 57.1 85.7#

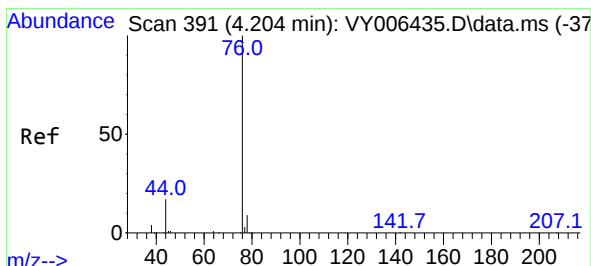
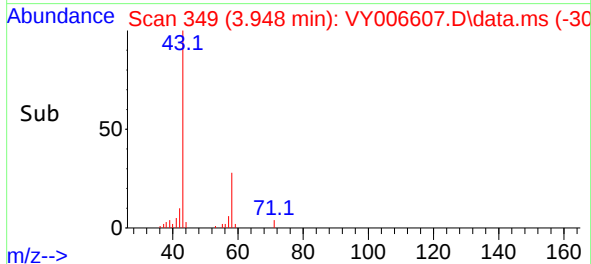
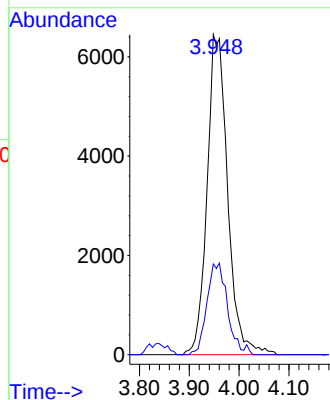
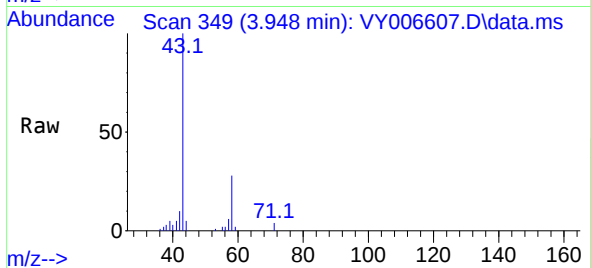




#16
Acetone
Concen: 184.995 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

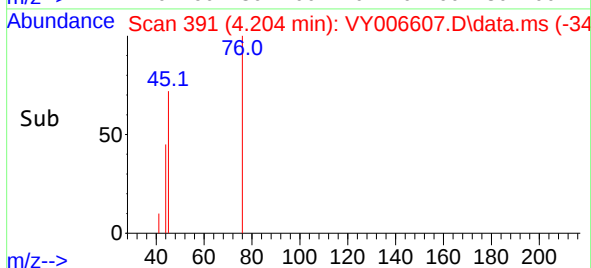
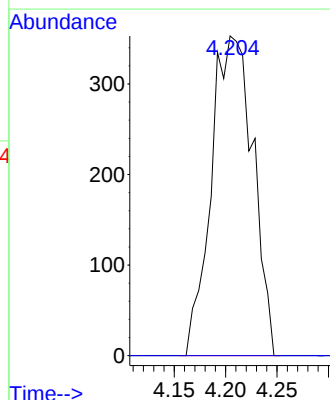
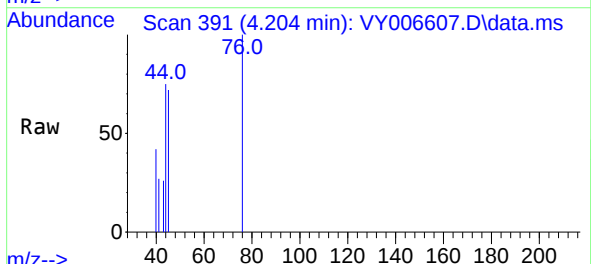
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

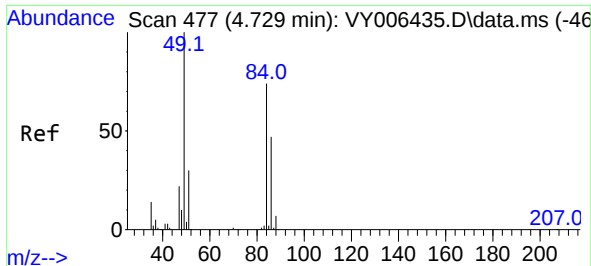
Tgt Ion: 43 Resp: 18499
Ion Ratio Lower Upper
43 100
58 28.3 22.9 34.3



#17
Carbon Disulfide
Concen: 1.194 ug/l
RT: 4.204 min Scan# 391
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

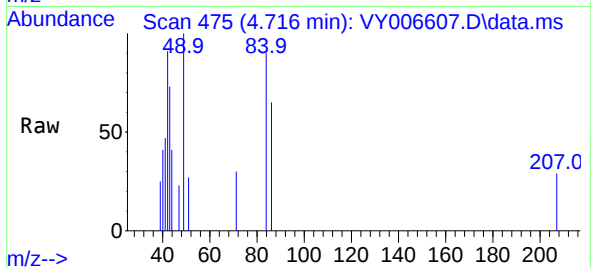
Tgt Ion: 76 Resp: 998
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#





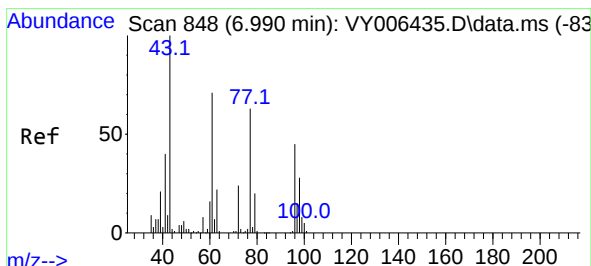
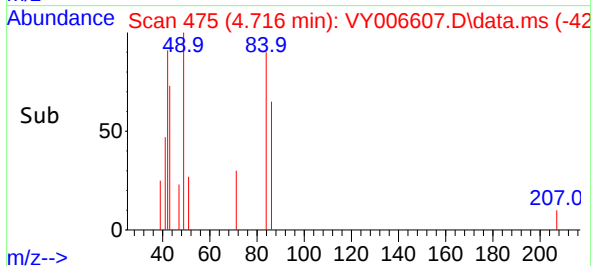
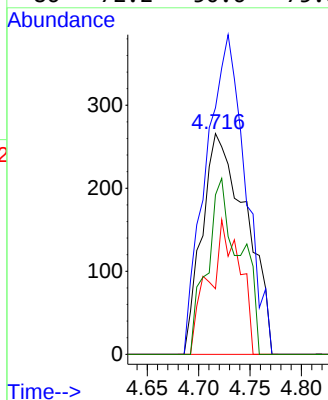
#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 41
Delta R.T. -0.013 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE



Tgt Ion: 84 Resp: 793

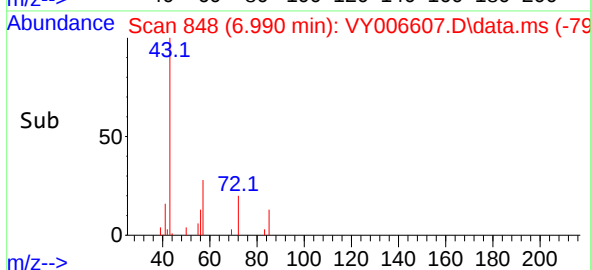
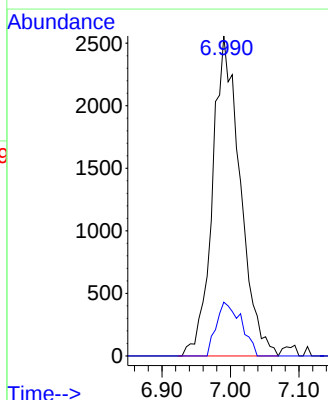
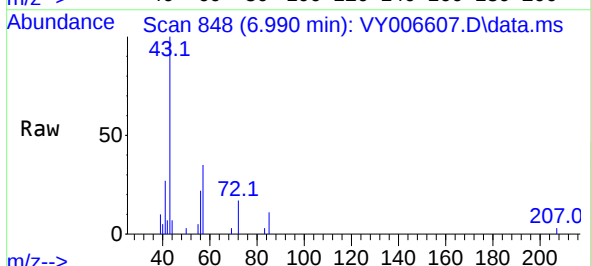
Ion	Ratio	Lower	Upper
84	100		
49	111.7	107.8	161.8
51	29.7	32.8	49.2#
86	72.2	50.6	75.8

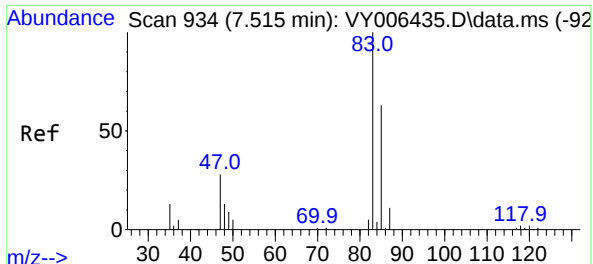


#25
2-Butanone
Concen: 54.868 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 43 Resp: 7188

Ion	Ratio	Lower	Upper
43	100		
72	16.8	18.9	28.3#





#30

Chloroform

Concen: 2.637 ug/l

RT: 7.478 min Scan# 91

Delta R.T. -0.037 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

Instrument :

MSVOA_Y

ClientSampleId :

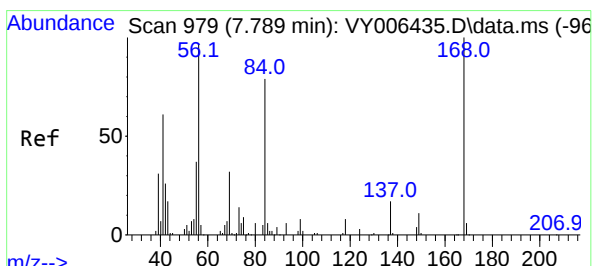
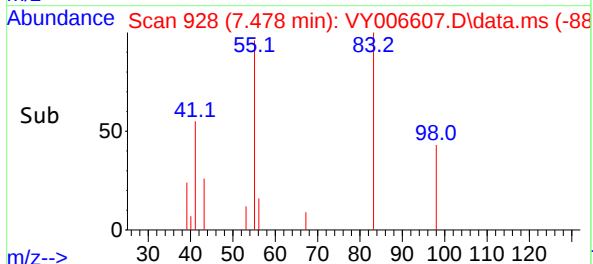
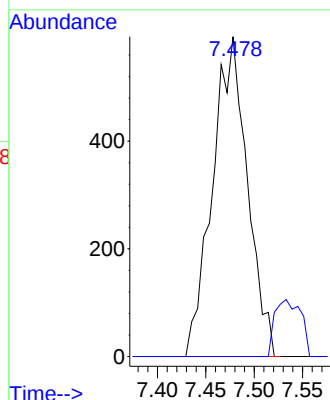
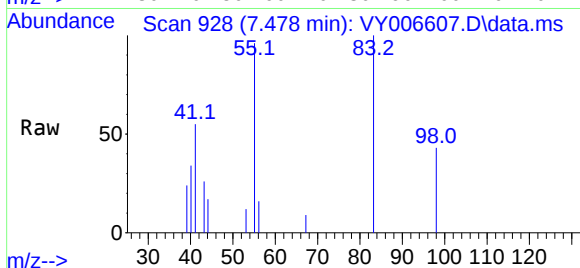
FDR-BH-2-20211029-6.5-7RE

Tgt Ion: 83 Resp: 1488

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.4#



#31

Cyclohexane

Concen: 1.355 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.000 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

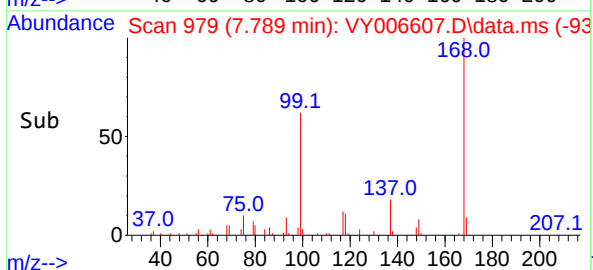
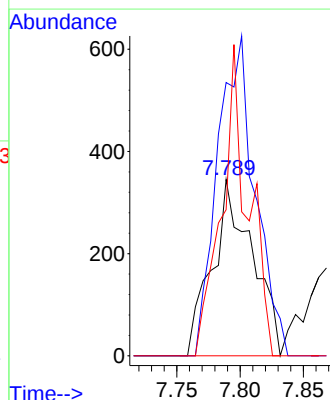
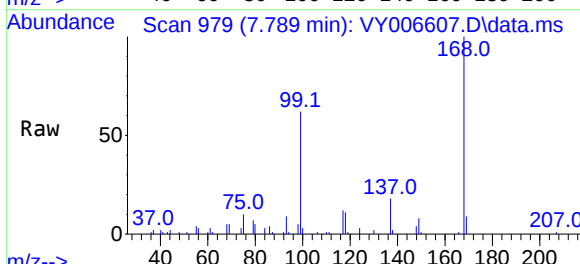
Tgt Ion: 56 Resp: 762

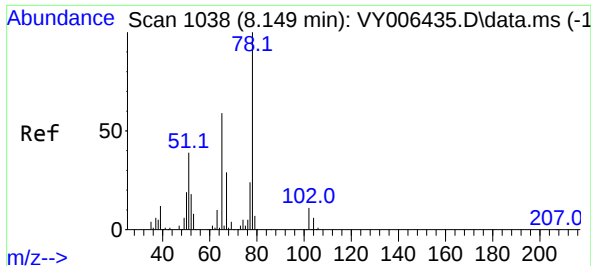
Ion Ratio Lower Upper

56 100

69 155.1 26.6 40.0#

84 82.9 65.0 97.4





#33

1,2-Dichloroethane-d4

Concen: 41.897 ug/l

RT: 8.149 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

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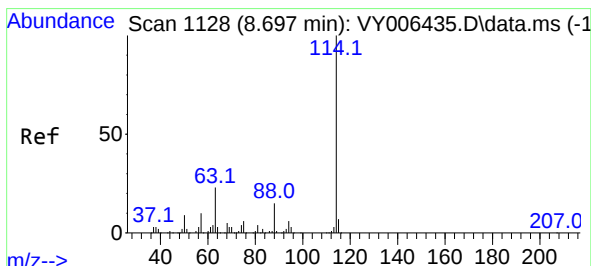
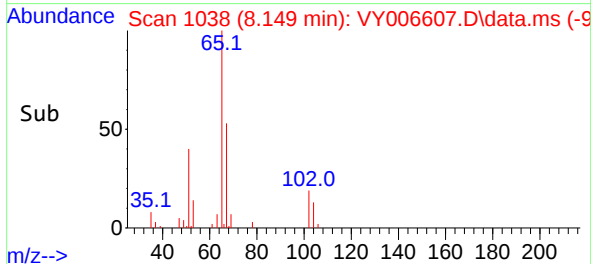
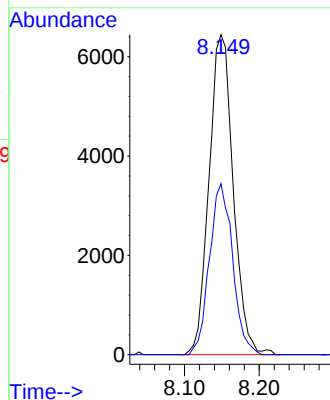
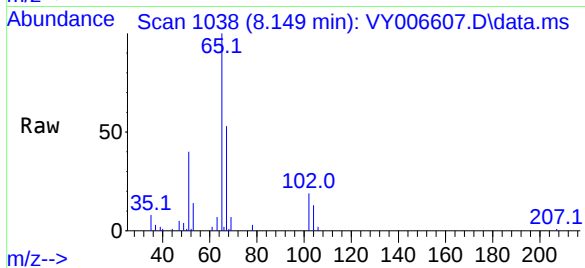
FDR-BH-2-20211029-6.5-7RE

Tgt Ion: 65 Resp: 14550

Ion Ratio Lower Upper

65 100

67 51.2 0.0 98.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

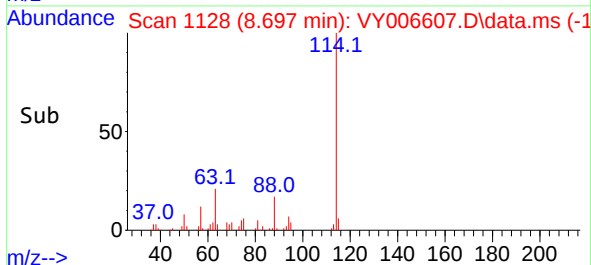
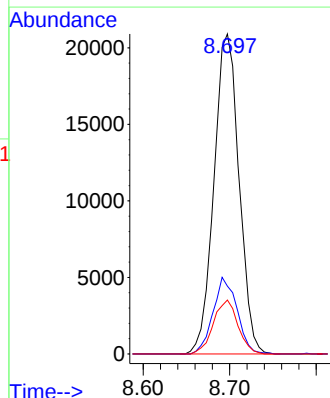
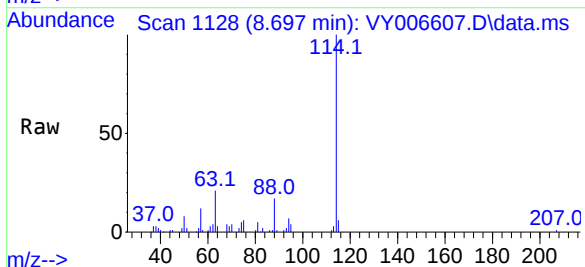
Tgt Ion: 114 Resp: 41977

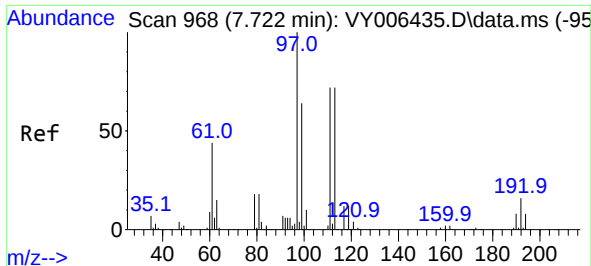
Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.0

88 16.8 0.0 30.6

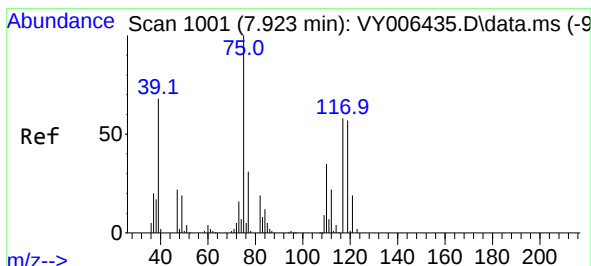
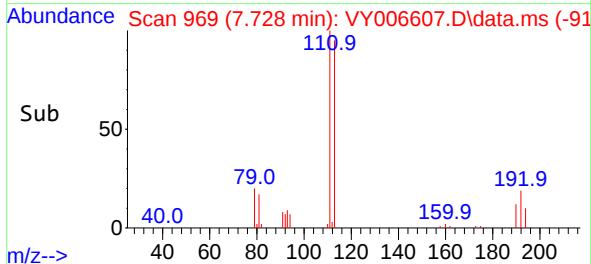
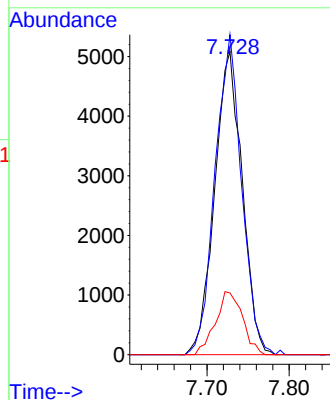
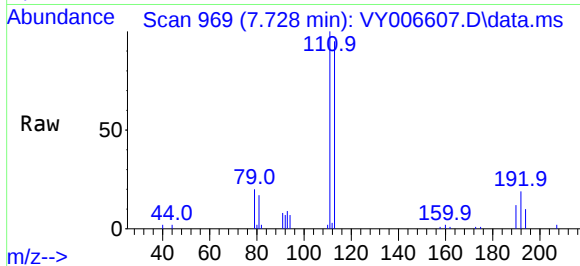




#35
Dibromofluoromethane
Concen: 50.622 ug/l
RT: 7.728 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

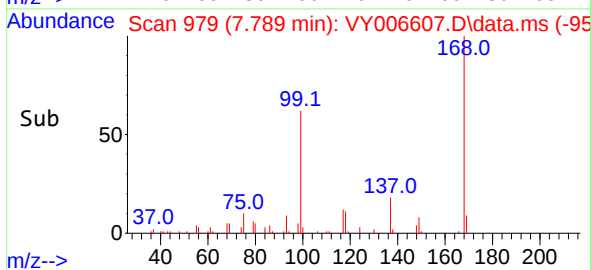
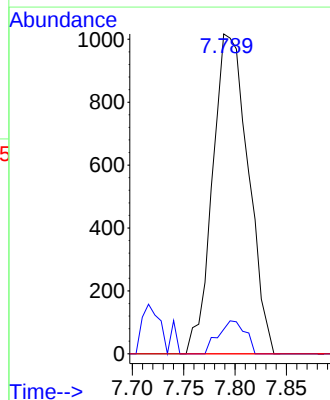
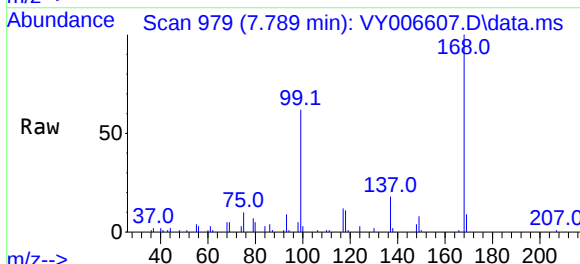
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

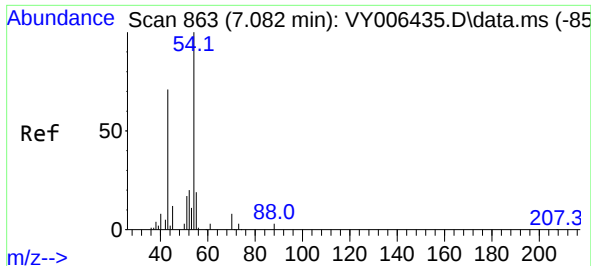
Tgt Ion:	113	Resp:	11844
Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.3	123.5
192	20.4	17.4	26.2



#36
1,1-Dichloropropene
Concen: 5.897 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion:	75	Resp:	2446
Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.1	51.3#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: 27.384 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.091 min

Lab File: VY006607.D

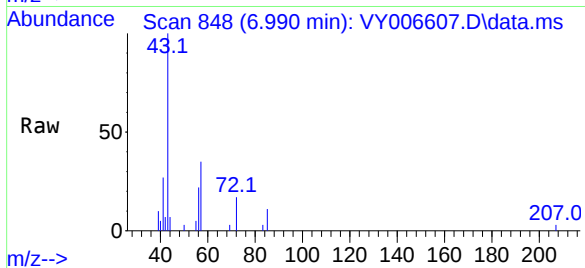
Acq: 03 Nov 2021 17:07

Instrument :

MSVOA_Y

ClientSampleId :

FDR-BH-2-20211029-6.5-7RE



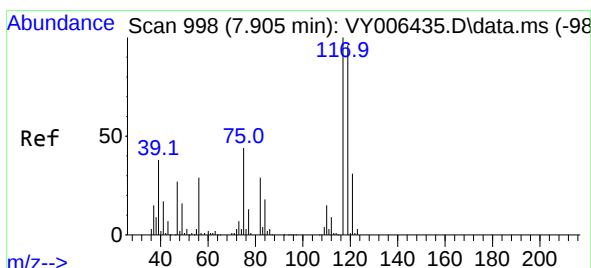
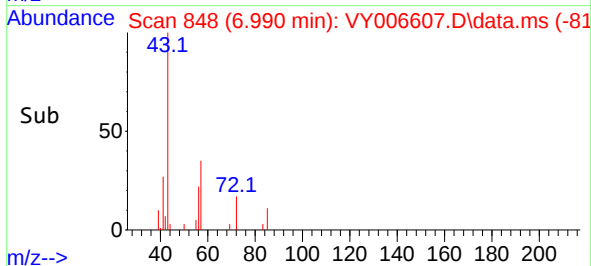
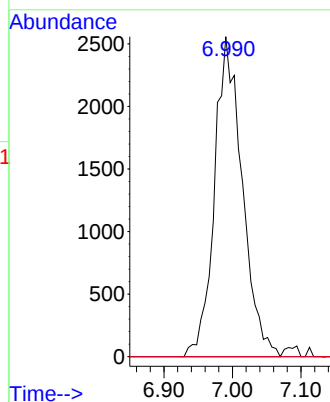
Tgt Ion: 43 Resp: 7188

Ion Ratio Lower Upper

43 100

61 0.0 9.4 14.2#

70 0.0 6.9 10.3#



#38

Carbon Tetrachloride

Concen: 6.091 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.110 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

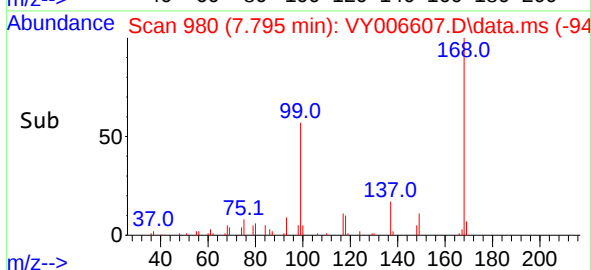
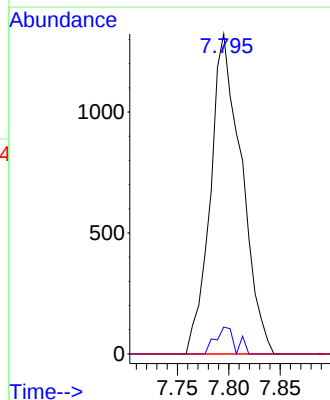
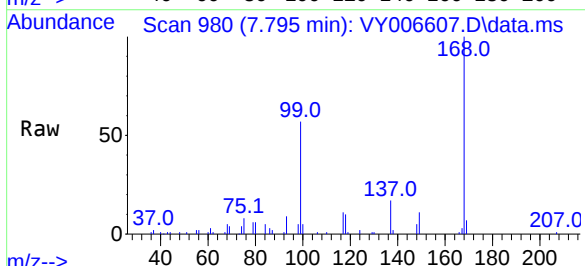
Tgt Ion: 117 Resp: 2787

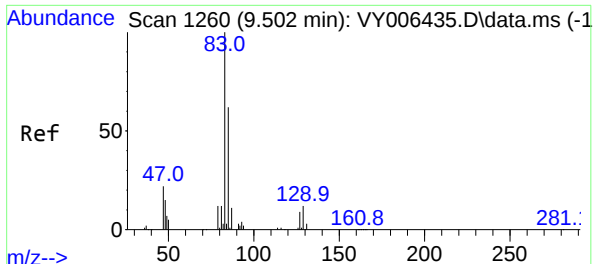
Ion Ratio Lower Upper

117 100

119 8.4 76.6 115.0#

121 0.0 24.7 37.1#





#47

Bromodichloromethane

Concen: 1.637 ug/l

RT: 9.496 min Scan# 1259

Delta R.T. -0.006 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

Instrument :

MSVOA_Y

ClientSampleId :

FDR-BH-2-20211029-6.5-7RE

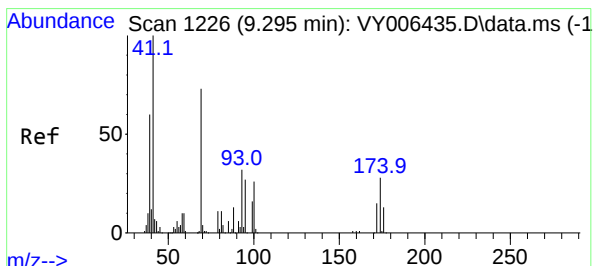
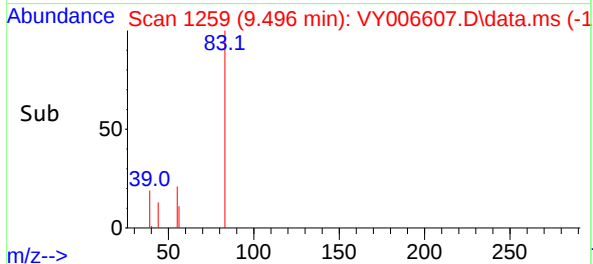
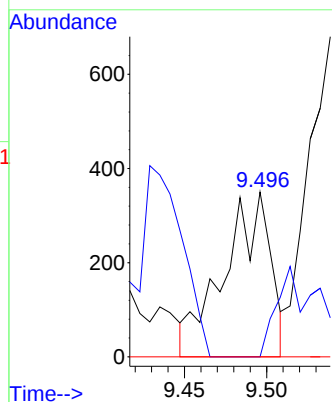
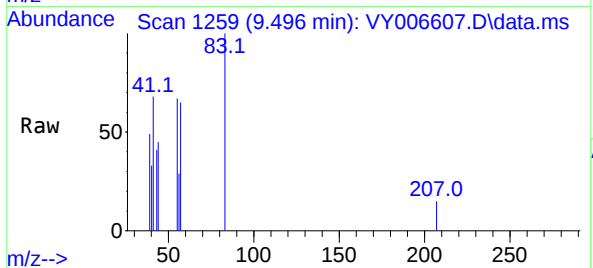
Tgt Ion: 83 Resp: 685

Ion Ratio Lower Upper

83 100

85 0.0 49.9 74.9#

127 0.0 7.1 10.7#



#48

Methyl methacrylate

Concen: 3.627 ug/l

RT: 9.325 min Scan# 1231

Delta R.T. 0.031 min

Lab File: VY006607.D

Acq: 03 Nov 2021 17:07

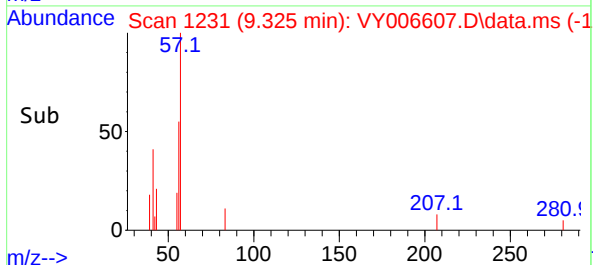
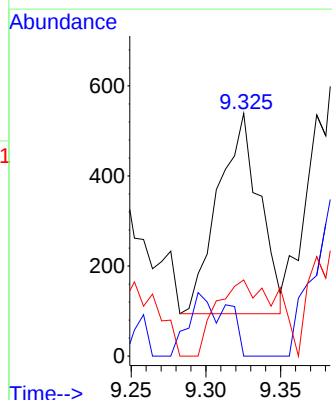
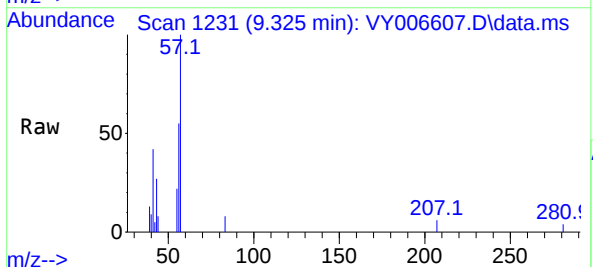
Tgt Ion: 41 Resp: 856

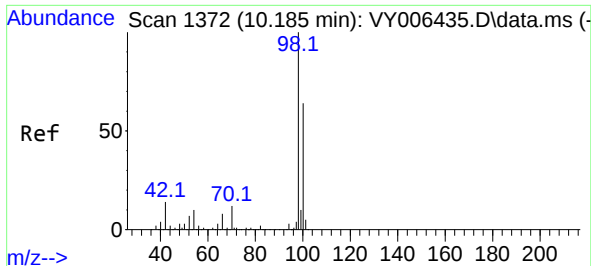
Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

39 54.6 48.2 72.2

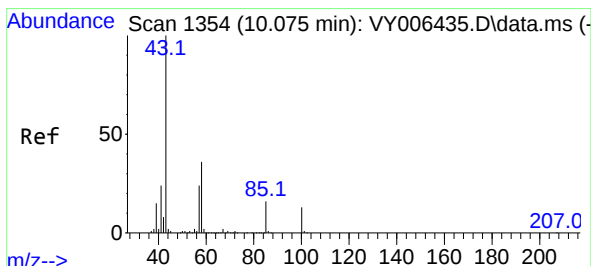
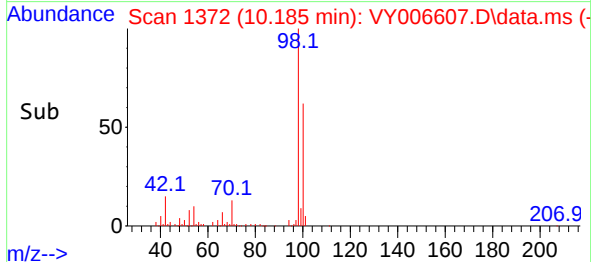
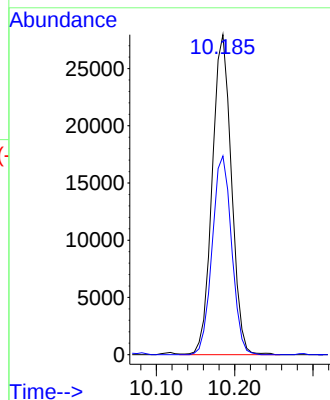
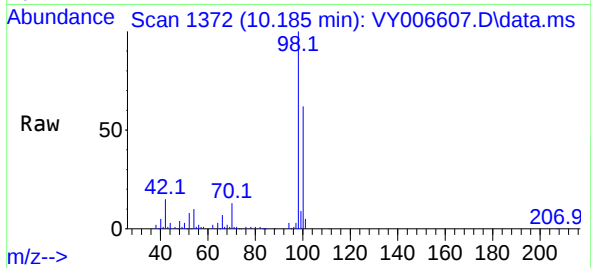




#50
Toluene-d8
Concen: 48.104 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

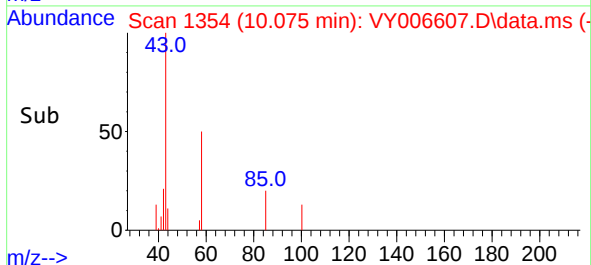
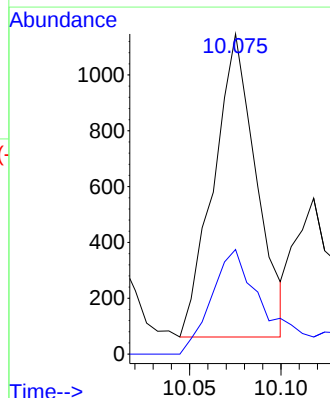
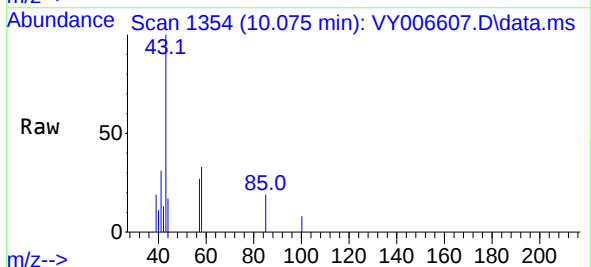
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

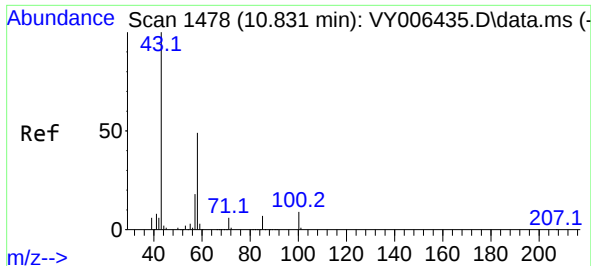
Tgt Ion: 98 Resp: 47711
Ion Ratio Lower Upper
98 100
100 62.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 6.620 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 43 Resp: 1767
Ion Ratio Lower Upper
43 100
58 46.0 28.7 43.1#

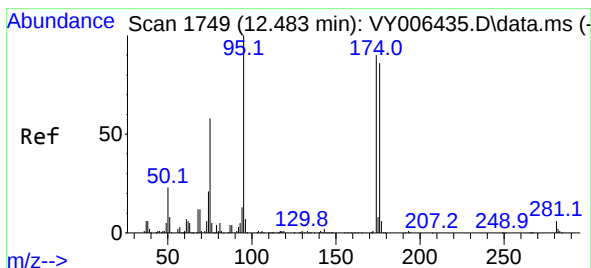
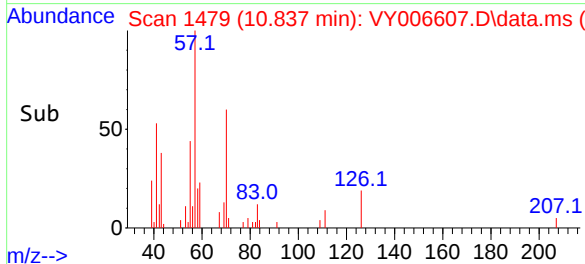
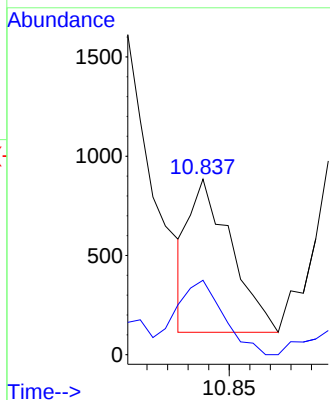
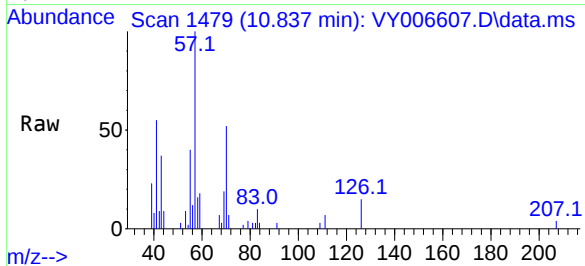




#59
2-Hexanone
Concen: 5.673 ug/l
RT: 10.837 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

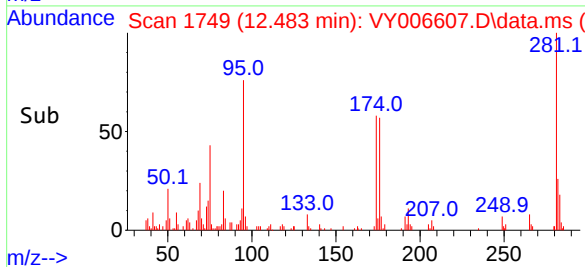
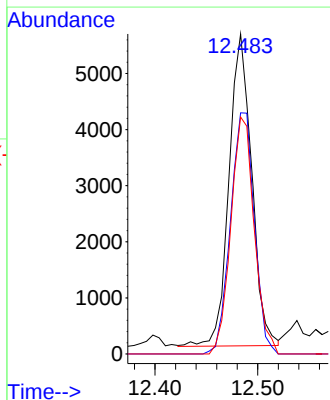
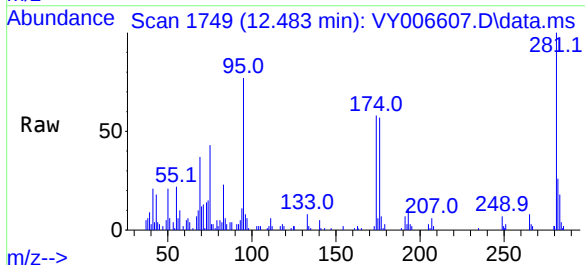
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

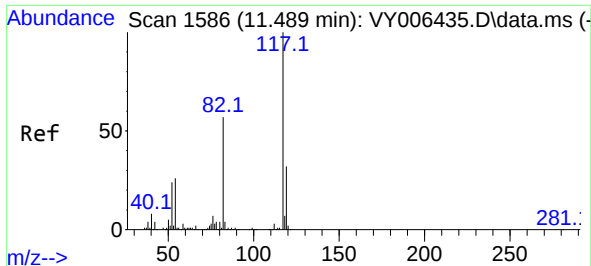
Tgt Ion: 43 Resp: 1096
Ion Ratio Lower Upper
43 100
58 54.8 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 25.561 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 95 Resp: 8540
Ion Ratio Lower Upper
95 100
174 81.4 0.0 177.0
176 78.3 0.0 169.4

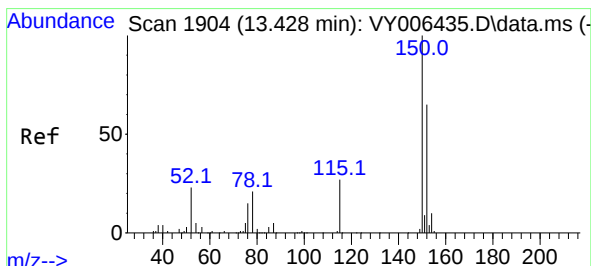
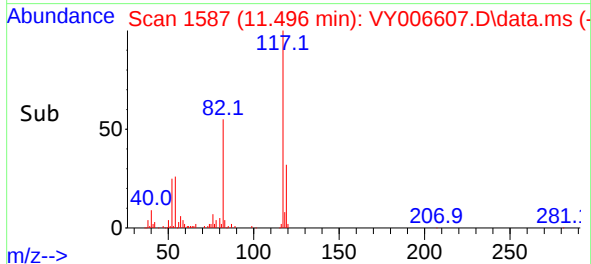
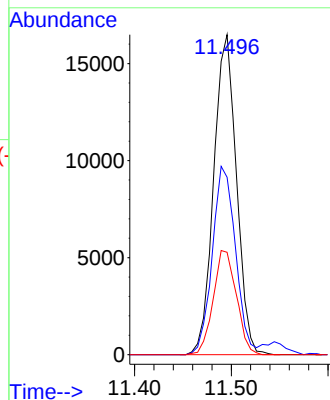
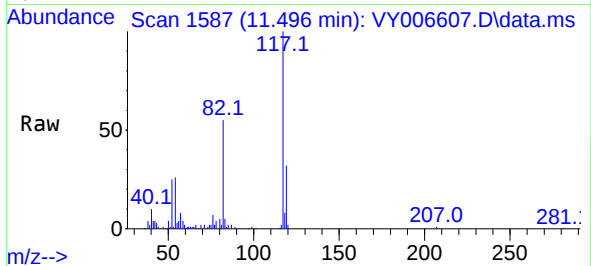




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

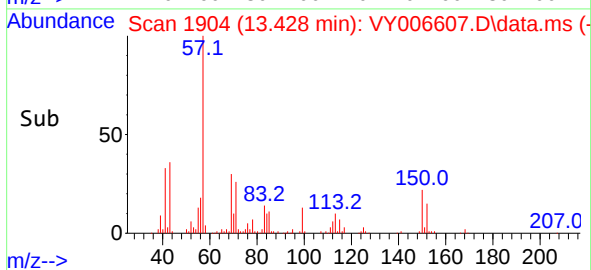
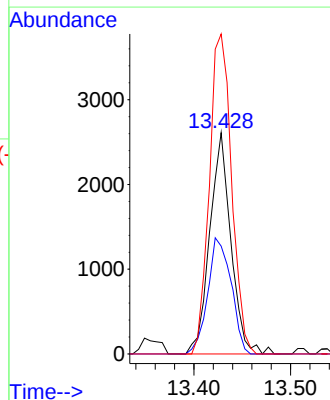
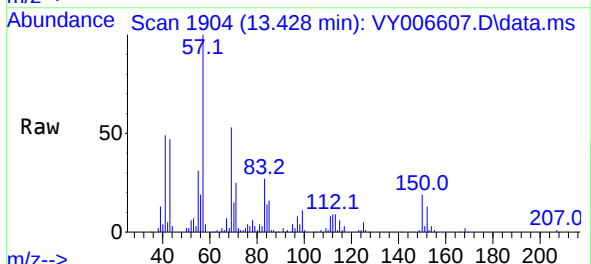
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

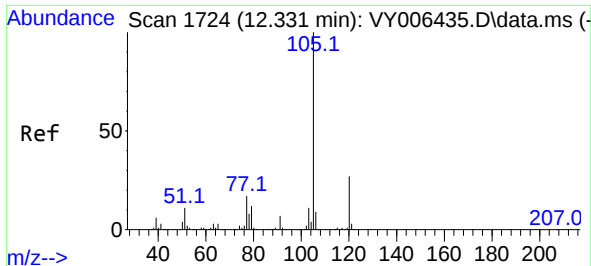
Tgt Ion:	117	Resp:	26919
Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.7	68.5
119	32.0	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion:	152	Resp:	3976
Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.5	85.5
150	151.9	0.0	348.2

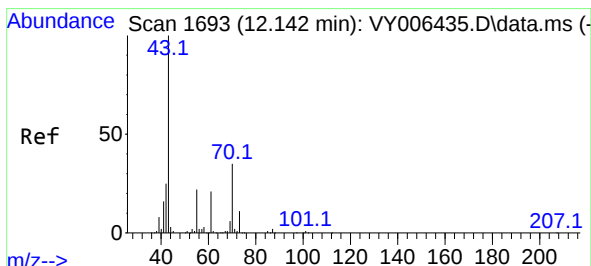
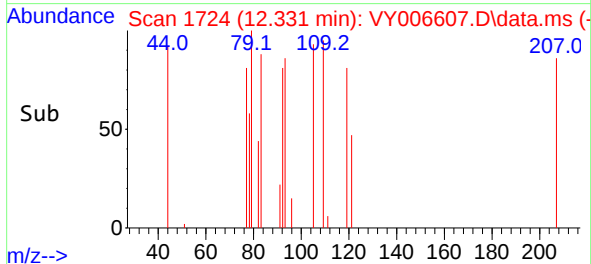
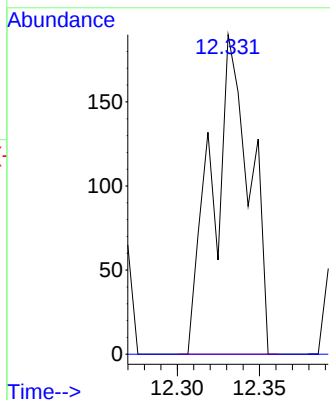
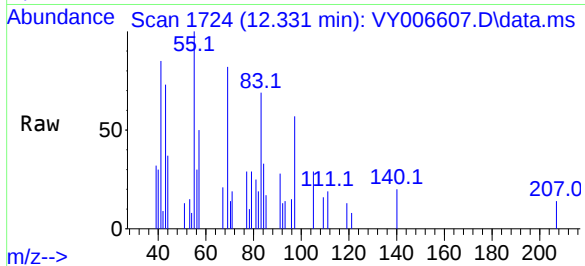




#73
Isopropylbenzene
Concen: 1.079 ug/l
RT: 12.331 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

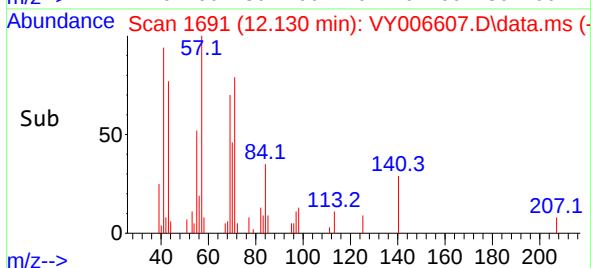
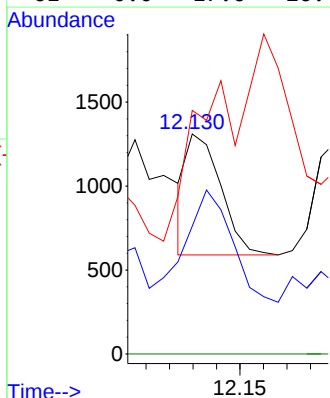
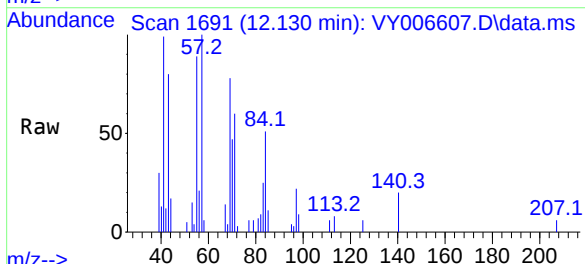
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

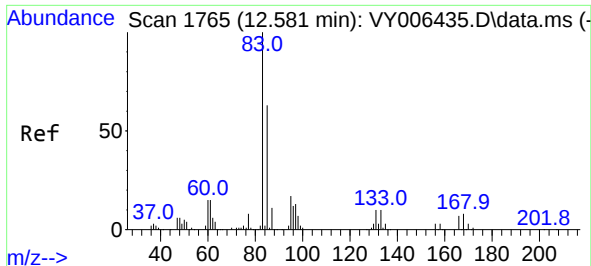
Tgt Ion:105 Resp: 300
Ion Ratio Lower Upper
105 100
120 0.0 13.3 39.9#



#74
N-ethyl acetate
Concen: 7.847 ug/l
RT: 12.130 min Scan# 1691
Delta R.T. -0.012 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 43 Resp: 724
Ion Ratio Lower Upper
43 100
70 155.2 29.4 44.0#
55 166.2 18.1 27.1#
61 0.0 17.6 26.4#

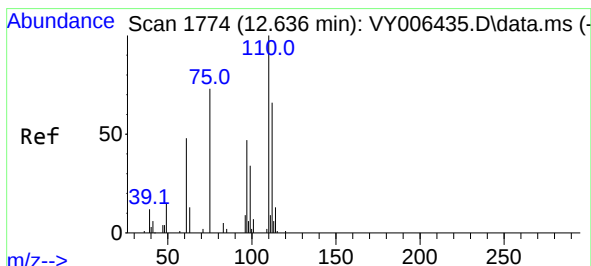
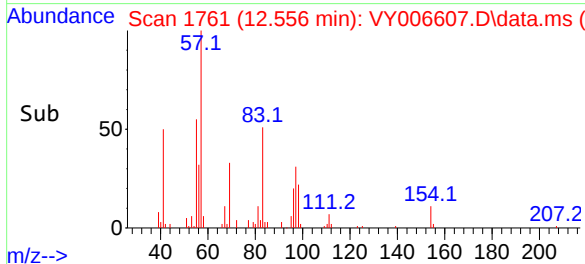
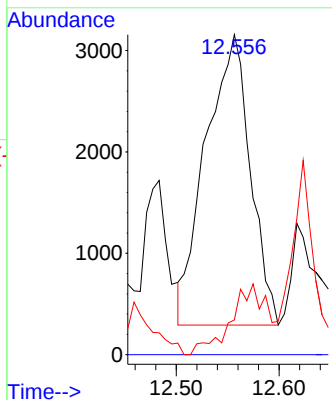
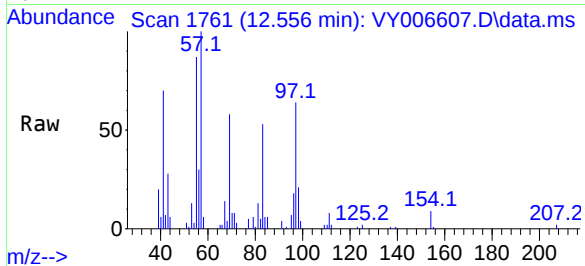




#75
1,1,2,2-Tetrachloroethane
Concen: 179.044 ug/l
RT: 12.556 min Scan# 1761
Delta R.T. -0.024 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

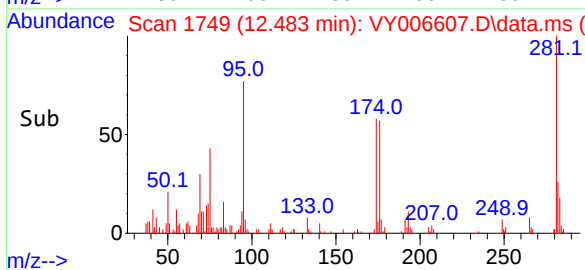
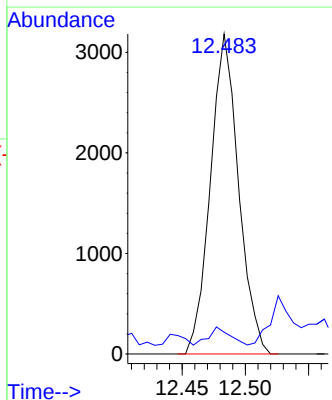
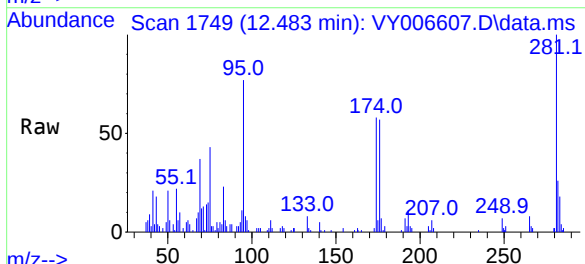
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

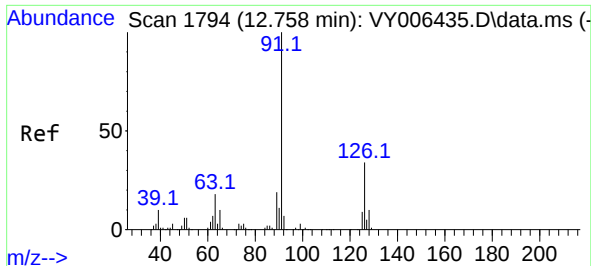
Tgt Ion: 83 Resp: 8621
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.4#
85 19.1 31.9 95.9#



#76
1,2,3-Trichloropropane
Concen: 120.107 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 75 Resp: 4921
Ion Ratio Lower Upper
75 100
77 4.2 0.0 0.0#

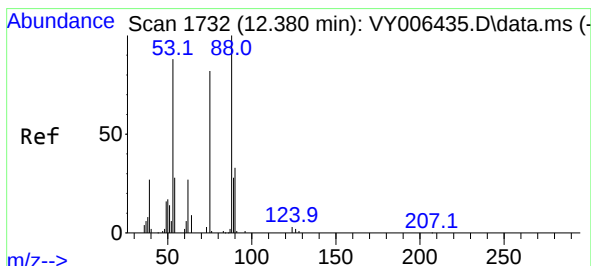
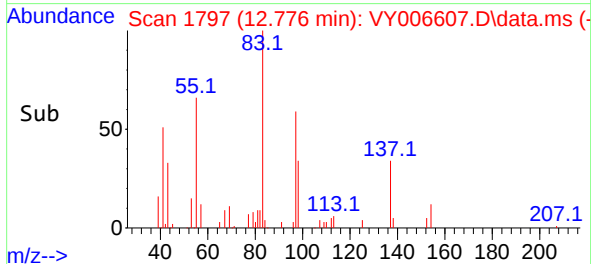
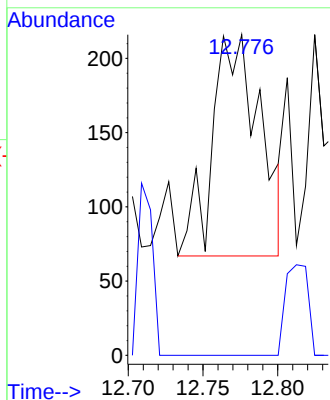
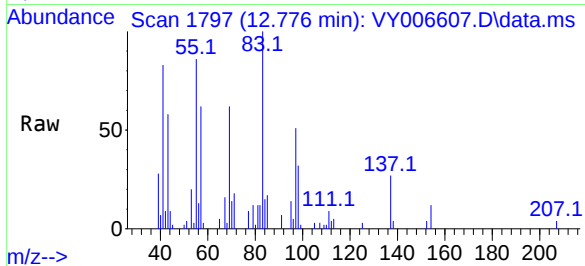




#79
2-Chlorotoluene
Concen: 1.734 ug/l
RT: 12.776 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

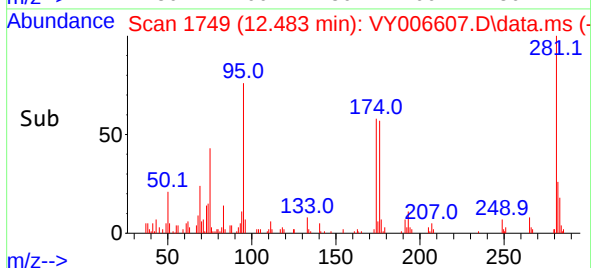
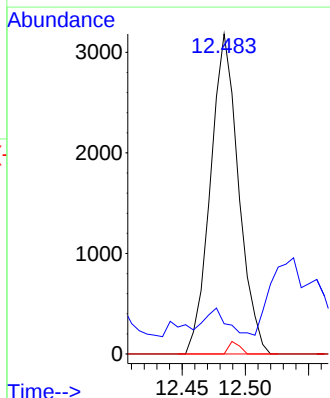
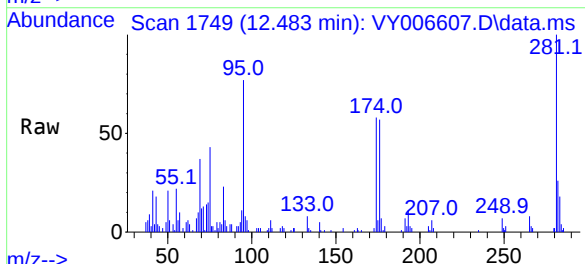
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

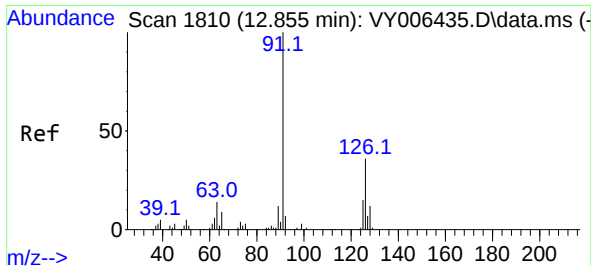
Tgt Ion: 91 Resp: 330
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 246.576 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 75 Resp: 4921
Ion Ratio Lower Upper
75 100
53 5.6 85.8 128.6#
89 1.5 39.3 58.9#

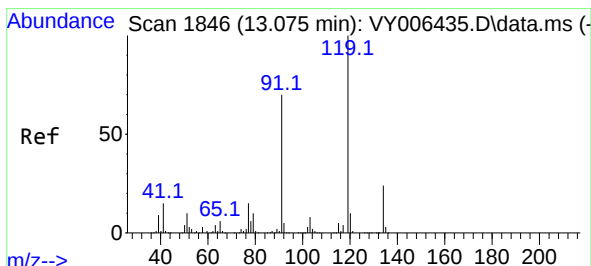
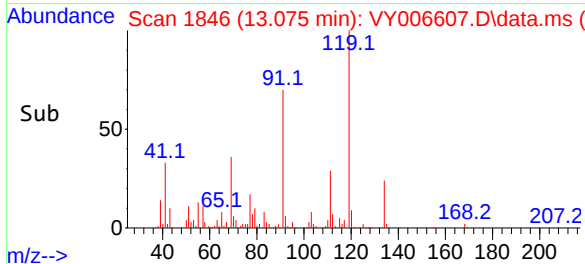
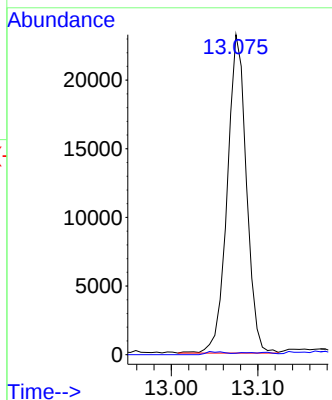
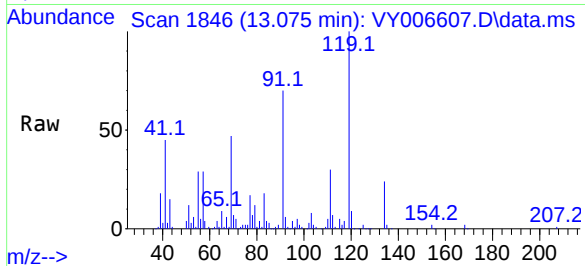




#82
4-Chlorotoluene
Concen: 179.591 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. 0.220 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

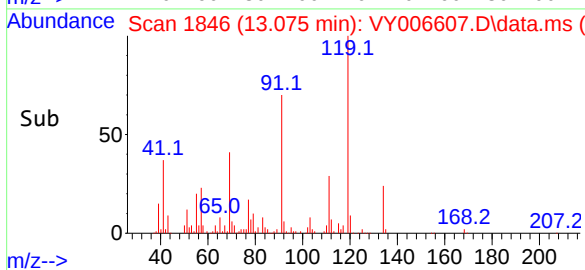
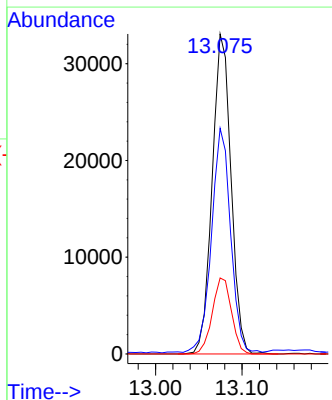
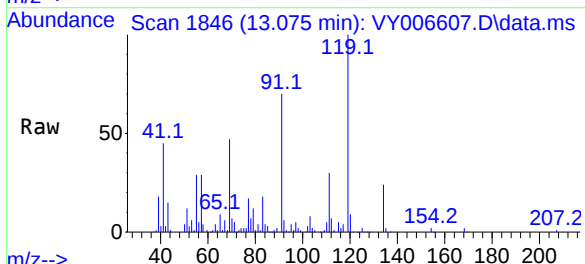
Instrument :
MSVOA_Y
ClientSampleId :
FDR-BH-2-20211029-6.5-7RE

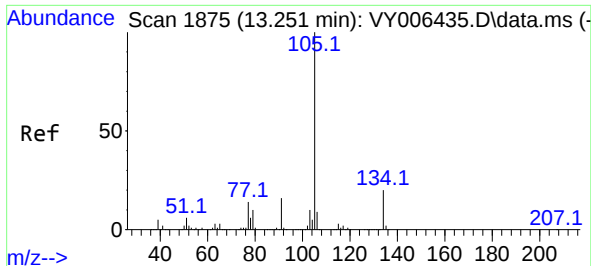
Tgt Ion: 91 Resp: 35609
Ion Ratio Lower Upper
91 100
126 0.2 16.8 50.4#



#83
tert-Butylbenzene
Concen: 249.573 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. 0.000 min
Lab File: VY006607.D
Acq: 03 Nov 2021 17:07

Tgt Ion: 119 Resp: 49946
Ion Ratio Lower Upper
119 100
91 71.3 34.8 104.5
134 24.2 13.0 38.9

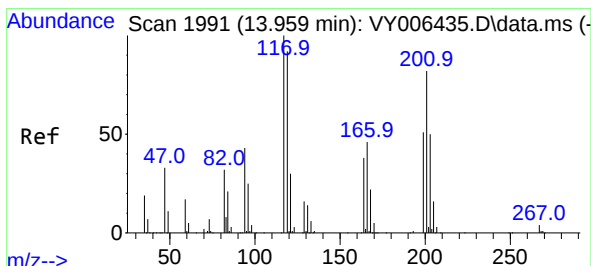
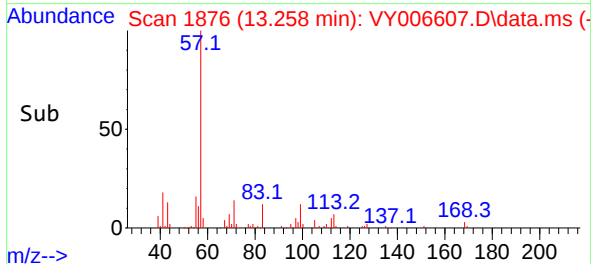
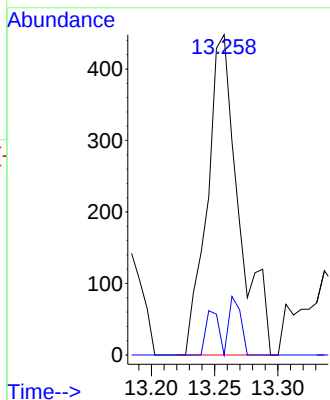
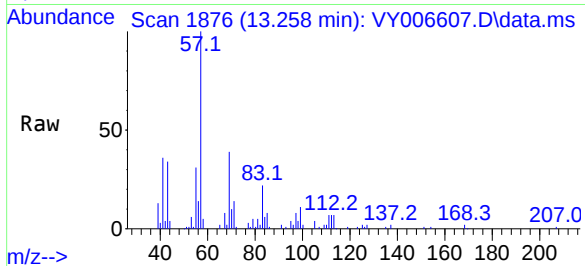




#85
 sec-Butylbenzene
 Concen: 2.589 ug/l
 RT: 13.258 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VY006607.D
 Acq: 03 Nov 2021 17:07

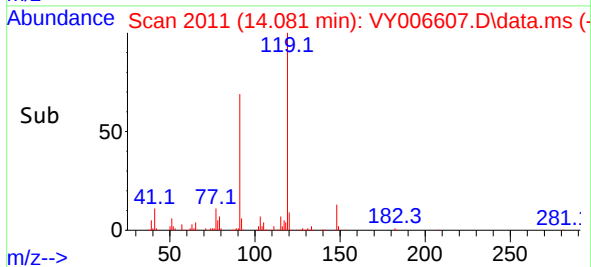
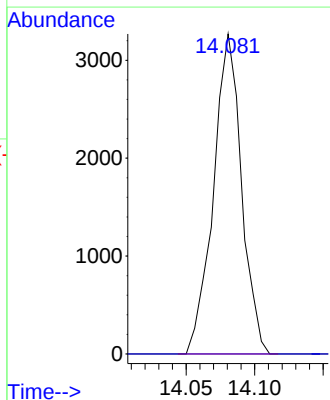
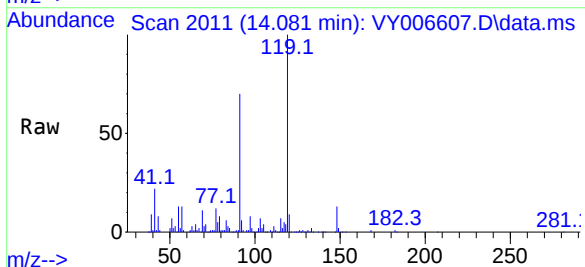
Instrument :
 MSVOA_Y
 ClientSampleId :
 FDR-BH-2-20211029-6.5-7RE

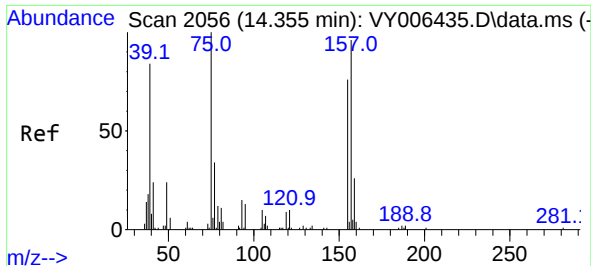
Tgt Ion:105 Resp: 778
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#



#90
 Hexachloroethane
 Concen: 100.671 ug/l
 RT: 14.081 min Scan# 2011
 Delta R.T. 0.122 min
 Lab File: VY006607.D
 Acq: 03 Nov 2021 17:07

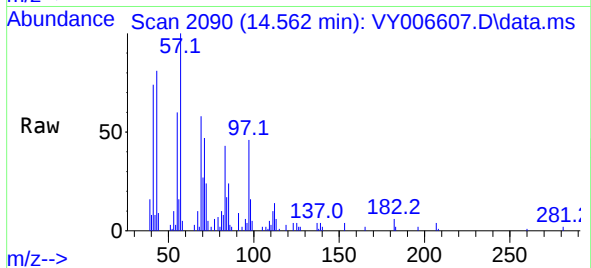
Tgt Ion:117 Resp: 4661
 Ion Ratio Lower Upper
 117 100
 201 0.0 43.4 130.1#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.717 ug/l
 RT: 14.562 min Scan# 2056
 Delta R.T. 0.207 min
 Lab File: VY006607.D
 Acq: 03 Nov 2021 17:07

Instrument : MSVOA_Y
 ClientSampleId : FDR-BH-2-20211029-6.5-7RE



Tgt Ion: 75 Resp: 38

Ion	Ratio	Lower	Upper
75	100		
155	50.0	39.0	116.9
157	0.0	49.2	147.6#

