

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052024\
 Data File : VY018328.D
 Acq On : 20 May 2024 12:27
 Operator : SY/MD
 Sample : P2500-02
 Misc : 7.56g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-112-SB02RE

Quant Time: May 21 01:23:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y050724S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 08 01:40:14 2024
 Response via : Initial Calibration

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

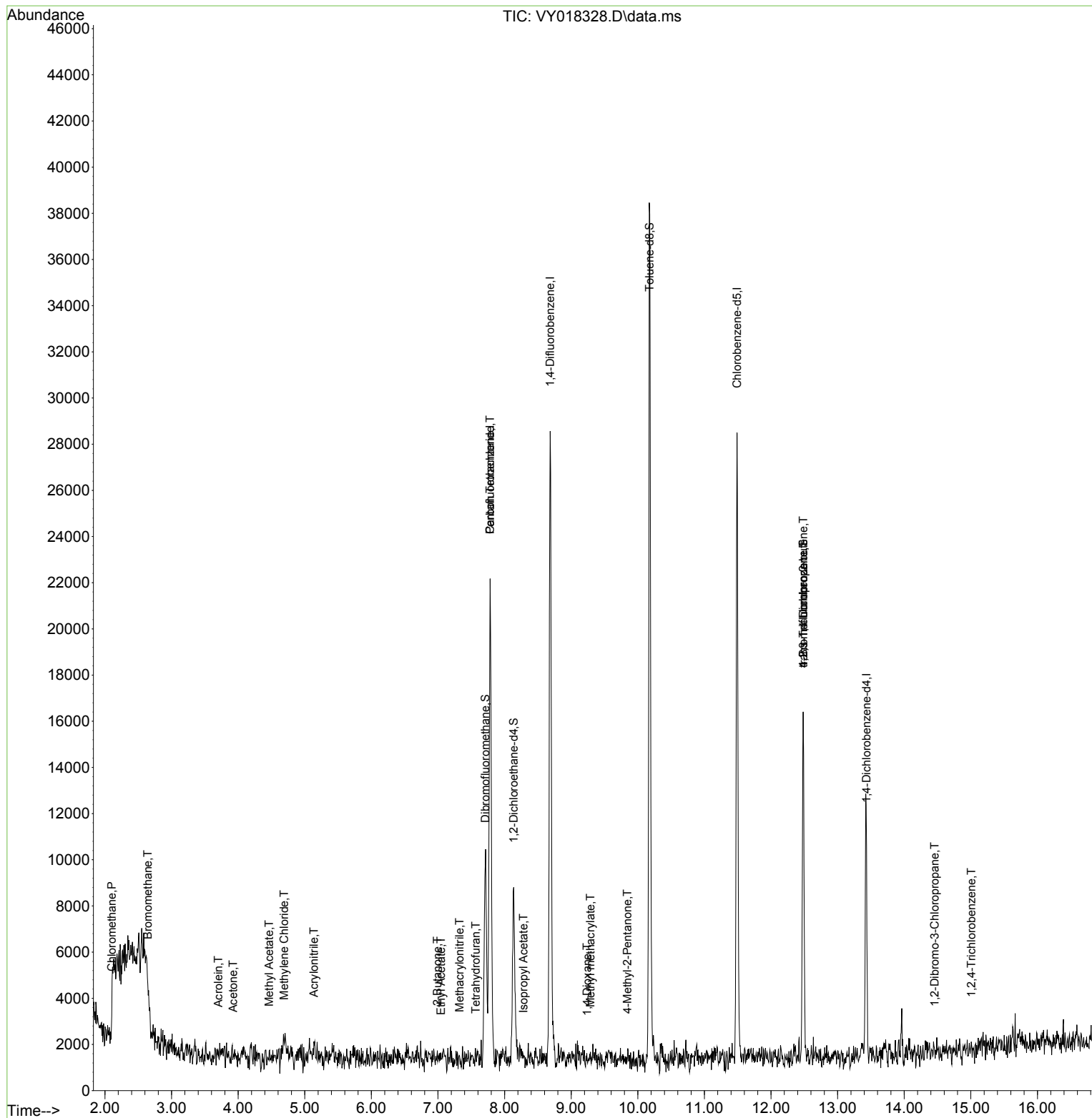
Internal Standards						
1) Pentafluorobenzene	7.783	168	15066	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	24472	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	14628	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	2978	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	5259	47.449	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	94.900%		
35) Dibromofluoromethane	7.709	113	6091	47.360	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.720%		
50) Toluene-d8	10.178	98	25153	49.630	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.260%		
62) 4-Bromofluorobenzene	12.483	95	4914	30.024	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	60.040%		
Target Compounds						Qvalue
3) Chloromethane	2.101	50	363	2.270	ug/l #	43
5) Bromomethane	2.643	94	142	1.055	ug/l #	54
11) Tert butyl alcohol	4.960	59	19	Below Cal	#	1
13) Acrolein	3.704	56	143	8.823	ug/l #	54
15) Acrylonitrile	5.137	53	69	2.400	ug/l #	35
16) Acetone	3.923	43	296	13.383	ug/l #	36
18) Methyl Acetate	4.466	43	91	1.444	ug/l #	46
20) Methylene Chloride	4.692	84	401	2.565	ug/l #	40
25) 2-Butanone	6.990	43	105	2.970	ug/l #	41
29) Tetrahydrofuran	7.569	42	42	1.800	ug/l	95
37) Ethyl Acetate	7.045	43	108	1.392	ug/l #	67
38) Carbon Tetrachloride	7.783	117	1812	8.994	ug/l #	13
41) Methacrylonitrile	7.325	41	64	1.428	ug/l #	1
43) Isopropyl Acetate	8.282	43	197	1.239	ug/l #	62
48) Methyl methacrylate	9.288	41	163	2.236	ug/l #	29
49) 1,4-Dioxane	9.240	88	49	49.525	ug/l #	87
51) 4-Methyl-2-Pentanone	9.843	43	139	1.739	ug/l	93
76) 1,2,3-Trichloropropane	12.483	75	2416	101.355	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	2416	195.277	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.458	75	48	9.897	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.007	180	78	1.630	ug/l #	12

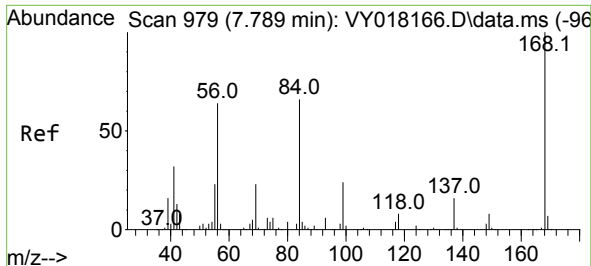
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052024\
Data File : VY018328.D
Acq On : 20 May 2024 12:27
Operator : SY/MD
Sample : P2500-02
Misc : 7.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

Quant Time: May 21 01:23:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y050724S.M
Quant Title : SW846 8260
QLast Update : Wed May 08 01:40:14 2024
Response via : Initial Calibration

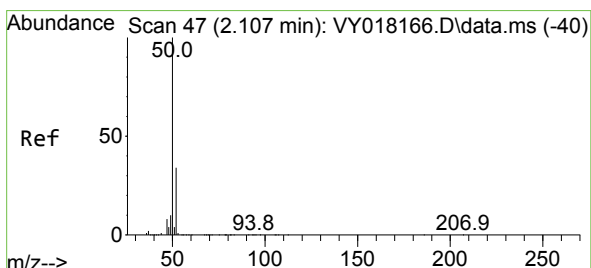
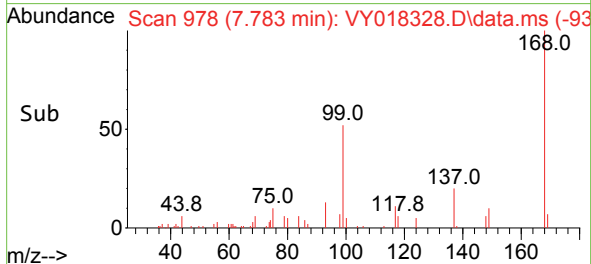
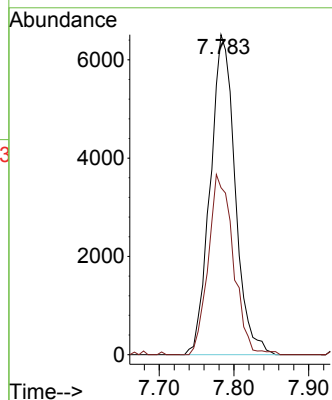
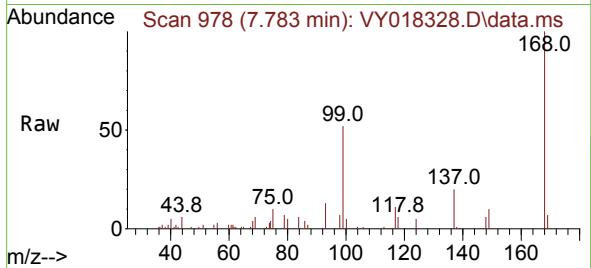




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

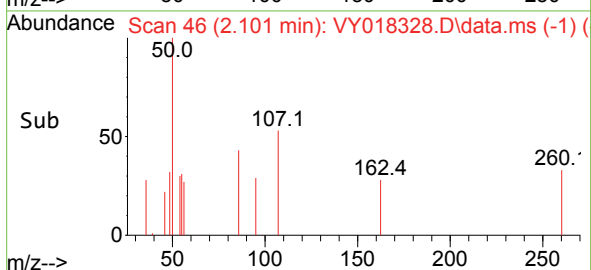
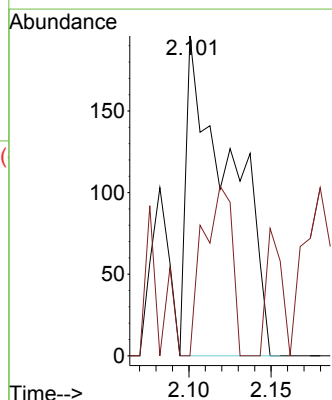
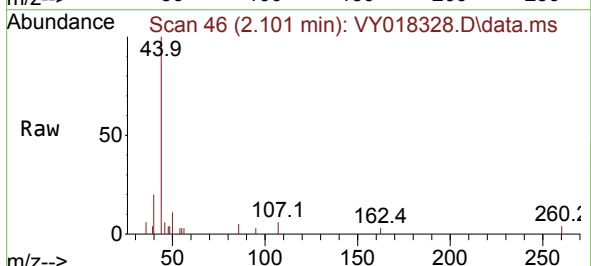
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

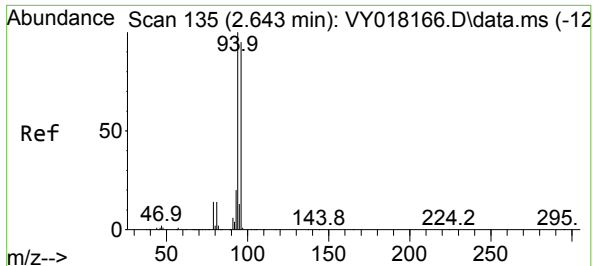
Tgt Ion:168 Resp: 15066
Ion Ratio Lower Upper
168 100
99 52.2 39.1 58.7



#3
Chloromethane
Concen: 2.270 ug/l
RT: 2.101 min Scan# 46
Delta R.T. -0.006 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 50 Resp: 363
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

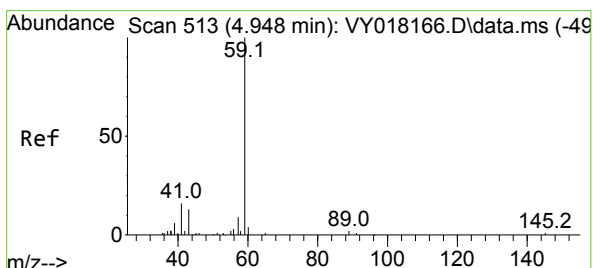
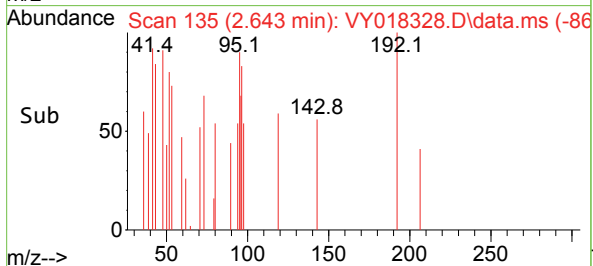
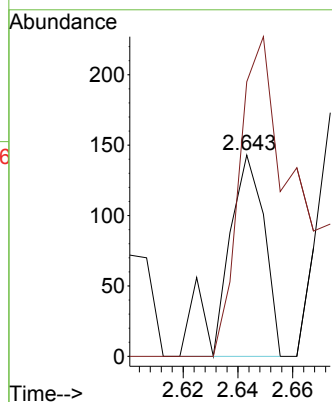
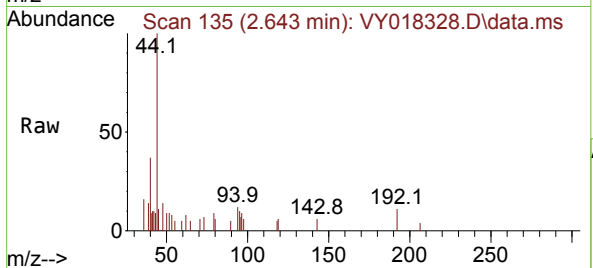




#5
Bromomethane
Concen: 1.055 ug/l
RT: 2.643 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

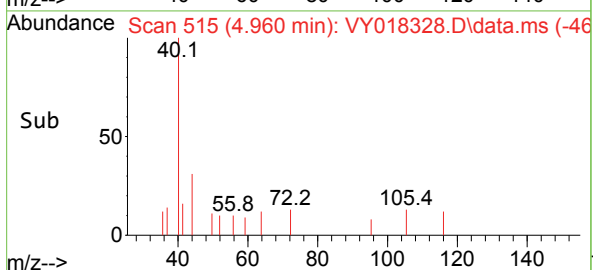
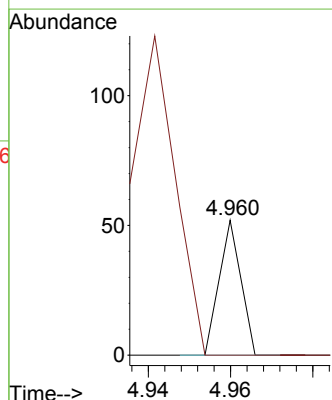
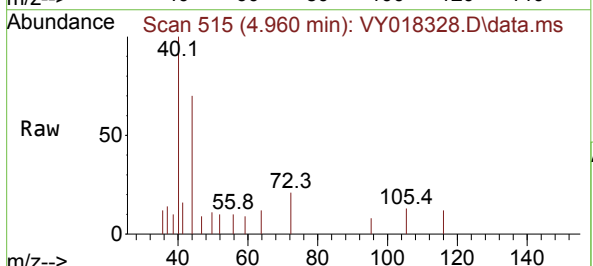
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

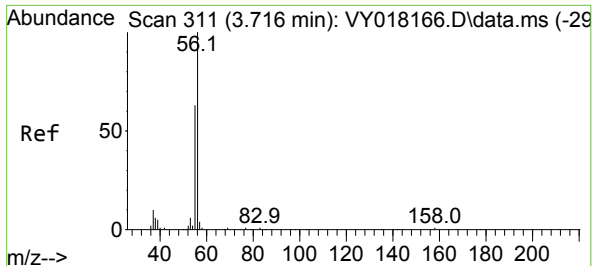
Tgt Ion: 94 Resp: 142
Ion Ratio Lower Upper
94 100
96 136.4 74.1 111.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.960 min Scan# 515
Delta R.T. 0.012 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 59 Resp: 19
Ion Ratio Lower Upper
59 100
57 473.7 3.0 4.6#





#13

Acrolein

Concen: 8.823 ug/l

RT: 3.704 min Scan# 309

Delta R.T. -0.012 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

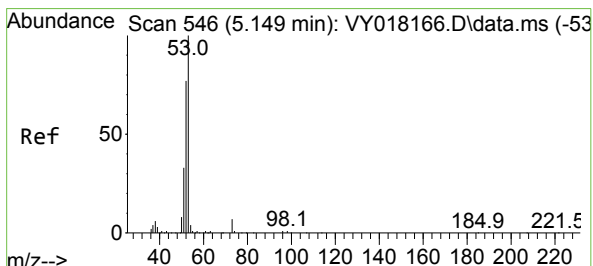
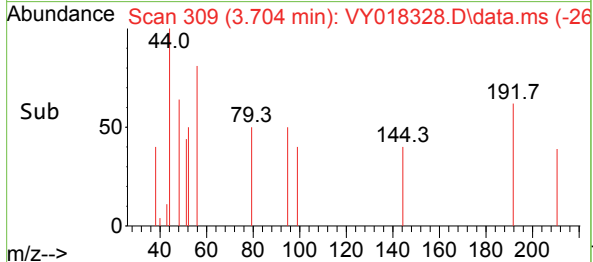
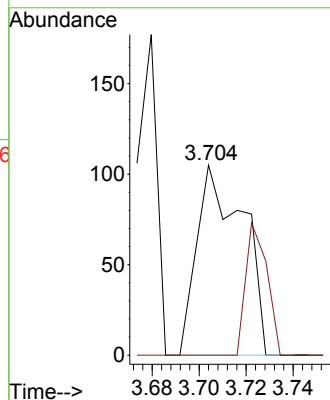
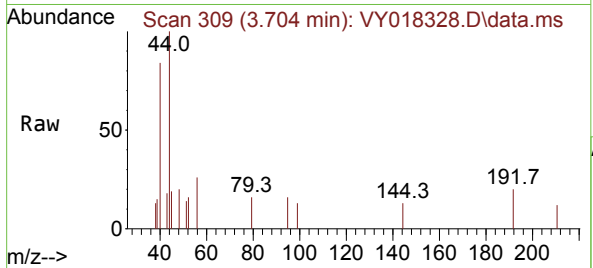
B-112-SB02RE

Tgt Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 32.2 55.7 83.5#



#15

Acrylonitrile

Concen: 2.400 ug/l

RT: 5.137 min Scan# 544

Delta R.T. -0.012 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

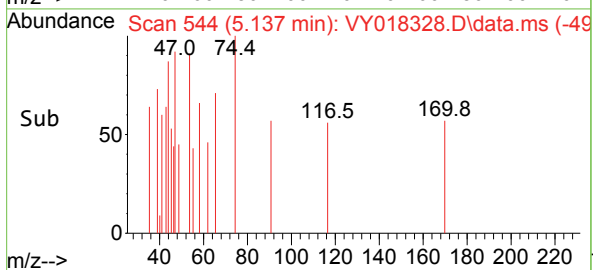
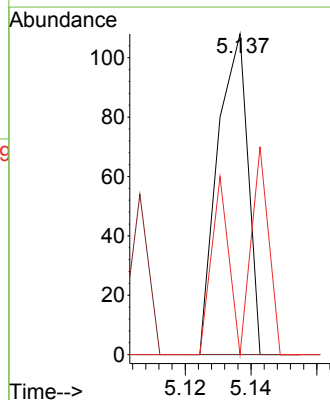
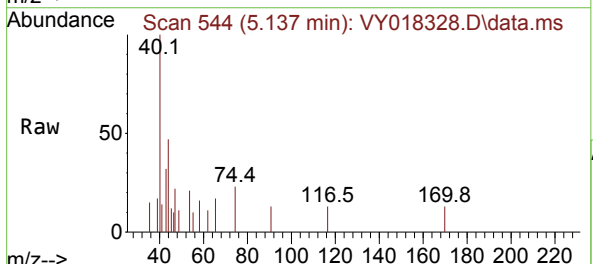
Tgt Ion: 53 Resp: 69

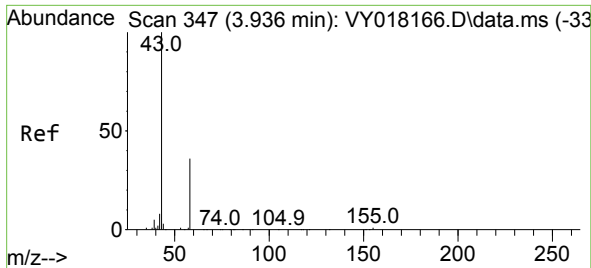
Ion Ratio Lower Upper

53 100

52 0.0 64.7 97.1#

51 31.9 28.4 42.6

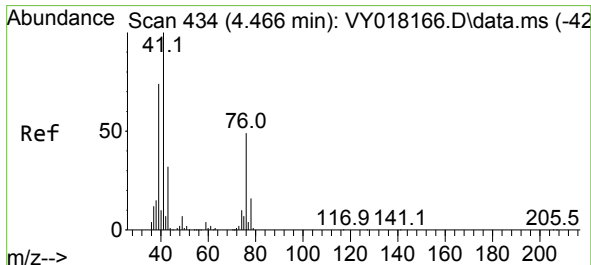
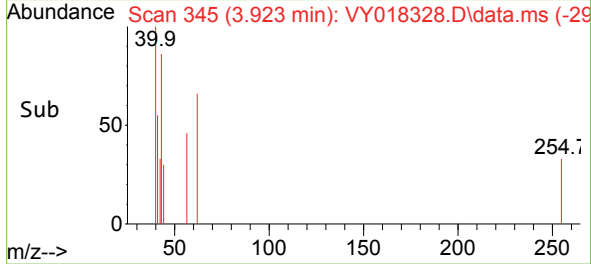
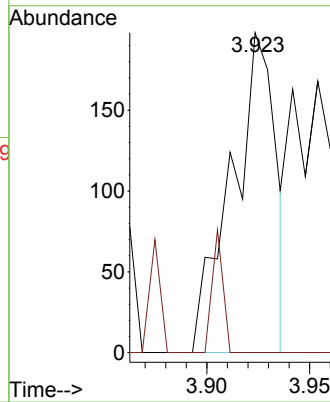
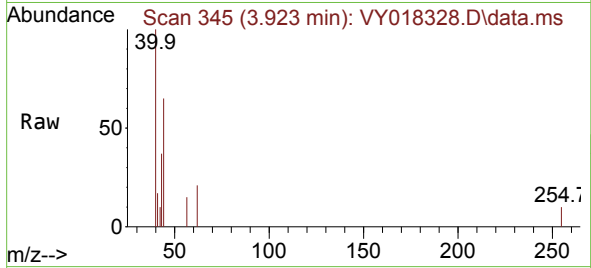




#16
Acetone
Concen: 13.383 ug/l
RT: 3.923 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

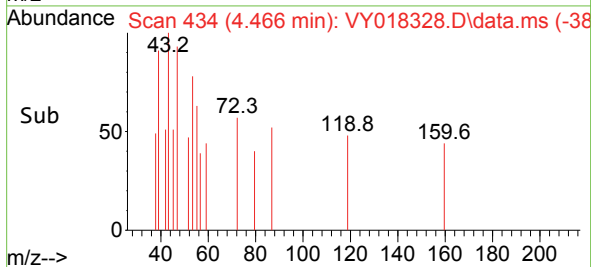
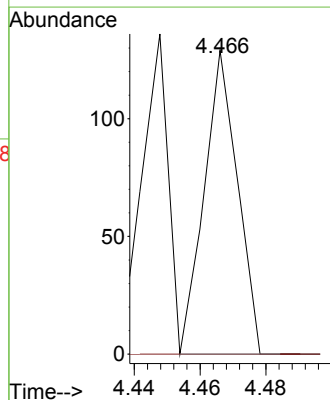
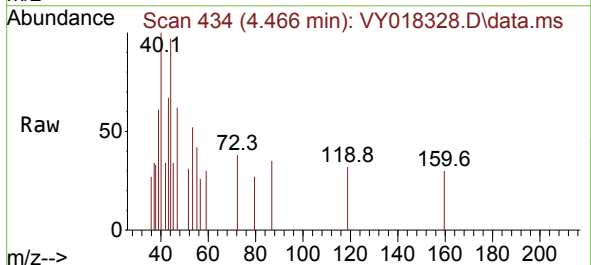
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

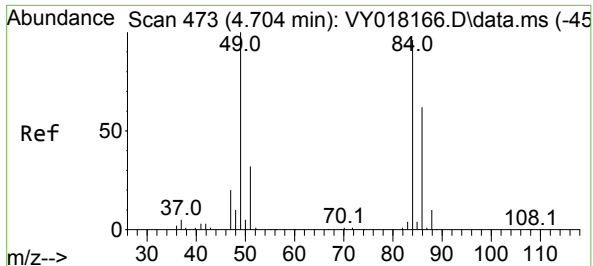
Tgt Ion: 43 Resp: 296
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#18
Methyl Acetate
Concen: 1.444 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.000 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 43 Resp: 91
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#





#20

Methylene Chloride

Concen: 2.565 ug/l

RT: 4.692 min Scan# 41

Delta R.T. -0.012 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

B-112-SB02RE

Tgt Ion: 84 Resp: 401

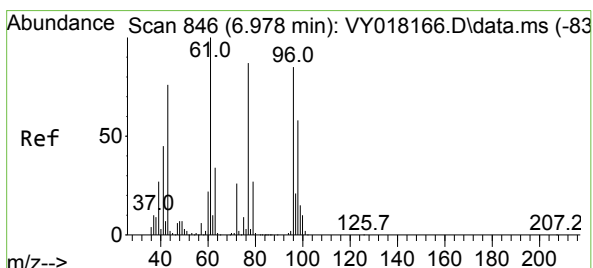
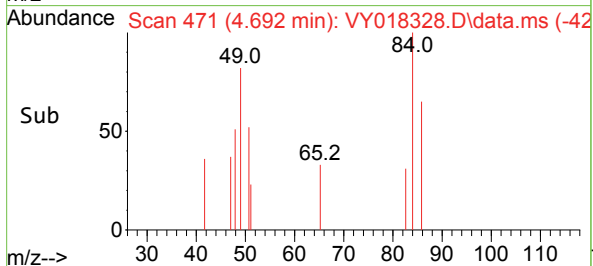
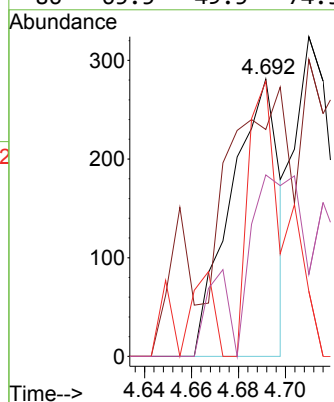
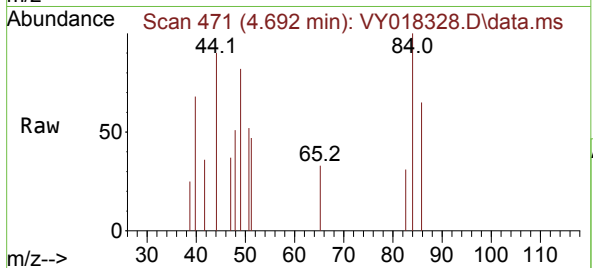
Ion Ratio Lower Upper

84 100

49 28.1 84.4 126.6#

51 99.3 26.0 39.0#

86 65.5 49.5 74.3



#25

2-Butanone

Concen: 2.970 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.012 min

Lab File: VY018328.D

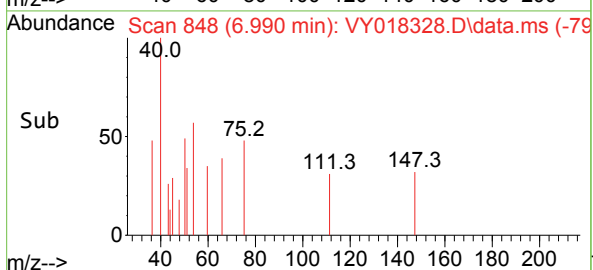
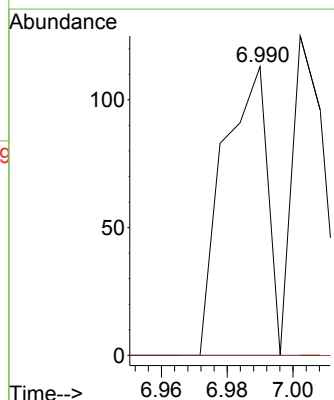
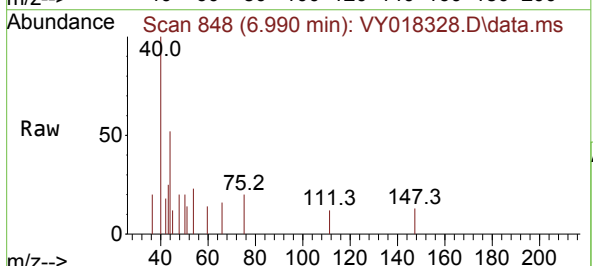
Acq: 20 May 2024 12:27

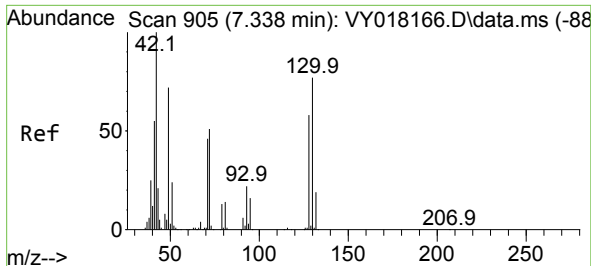
Tgt Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#





#29

Tetrahydrofuran

Concen: 1.800 ug/l

RT: 7.569 min Scan# 943

Delta R.T. 0.231 min

Lab File: VY018328.D

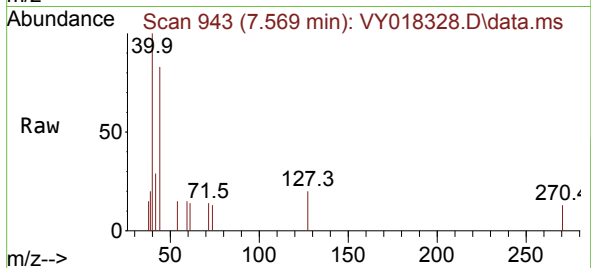
Acq: 20 May 2024 12:27

Instrument :

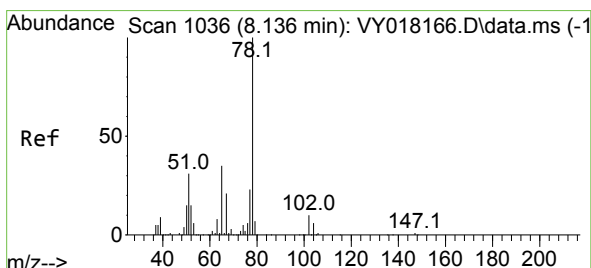
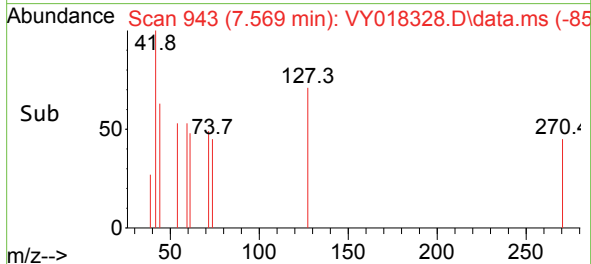
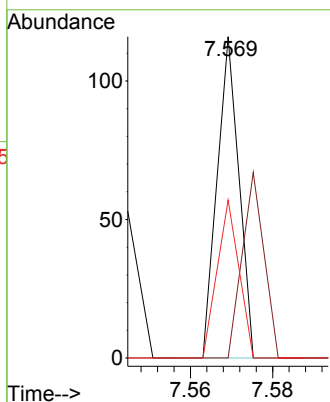
MSVOA_Y

ClientSampleId :

B-112-SB02RE



Tgt Ion:	42	Resp:	42
Ion	Ratio	Lower	Upper
42	100		
72	59.5	43.0	64.4
71	50.0	40.8	61.2



#33

1,2-Dichloroethane-d4

Concen: 47.449 ug/l

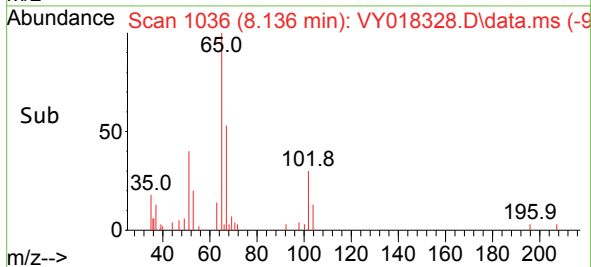
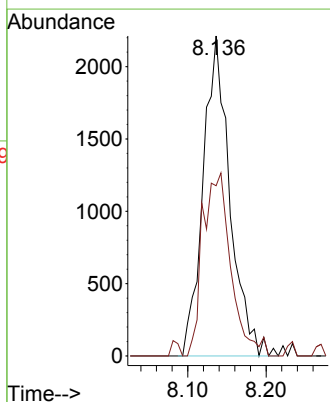
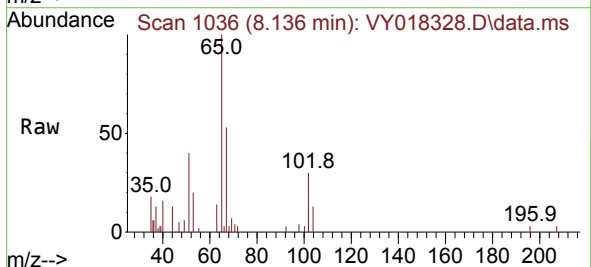
RT: 8.136 min Scan# 1036

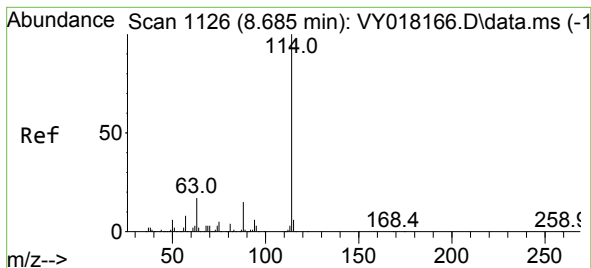
Delta R.T. -0.000 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Tgt Ion:	65	Resp:	5259
Ion	Ratio	Lower	Upper
65	100		
67	60.4	0.0	109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

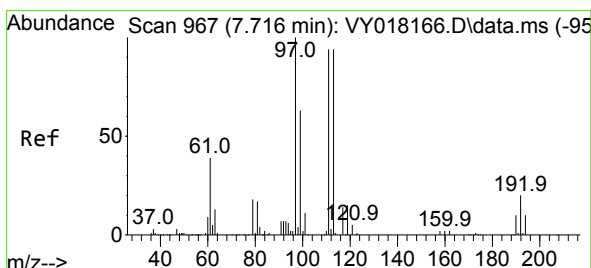
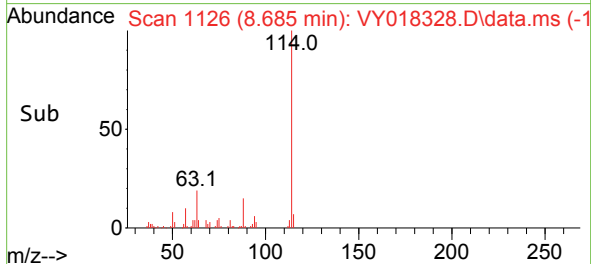
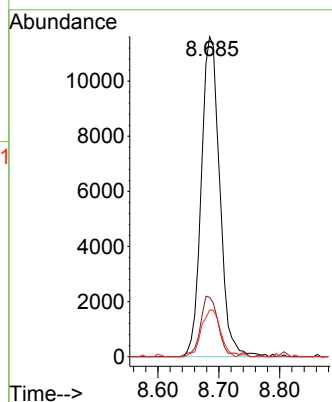
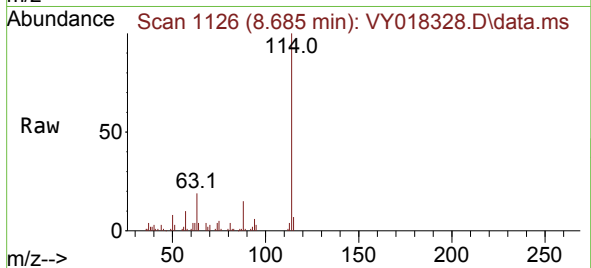
Instrument :

MSVOA_Y

ClientSampleId :

B-112-SB02RE

Tgt Ion:114	Resp:	24472
Ion Ratio	Lower	Upper
114	100	
63	18.6	0.0 35.0
88	14.6	0.0 27.2



#35

Dibromofluoromethane

Concen: 47.360 ug/l

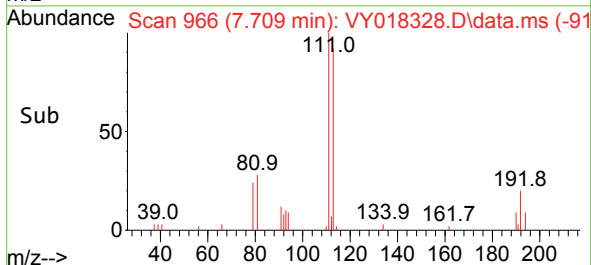
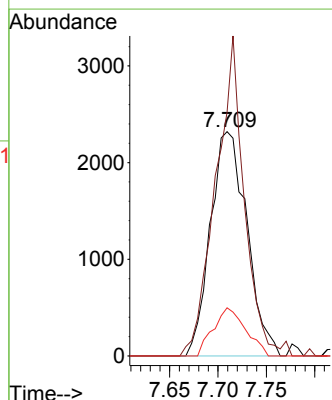
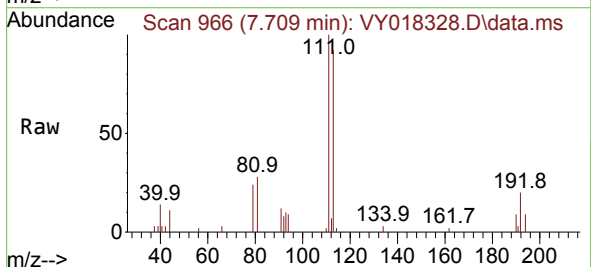
RT: 7.709 min Scan# 966

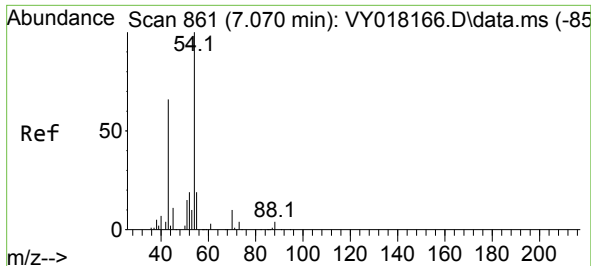
Delta R.T. -0.006 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Tgt Ion:113	Resp:	6091
Ion Ratio	Lower	Upper
113	100	
111	112.0	82.2 123.4
192	19.1	15.9 23.9





#37

Ethyl Acetate

Concen: 1.392 ug/l

RT: 7.045 min Scan# 81

Delta R.T. -0.025 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

B-112-SB02RE

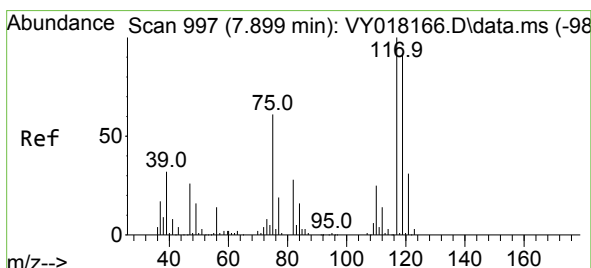
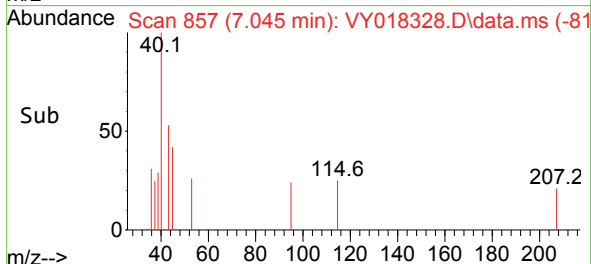
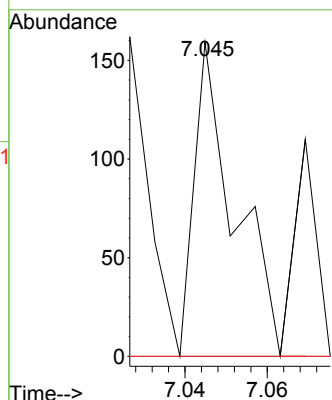
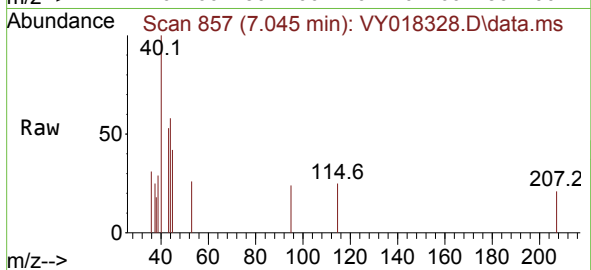
Tgt Ion: 43 Resp: 108

Ion Ratio Lower Upper

43 100

61 0.0 12.6 19.0#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 8.994 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

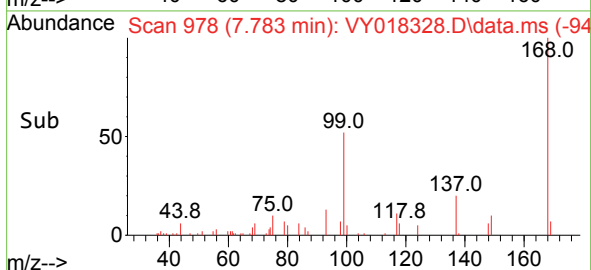
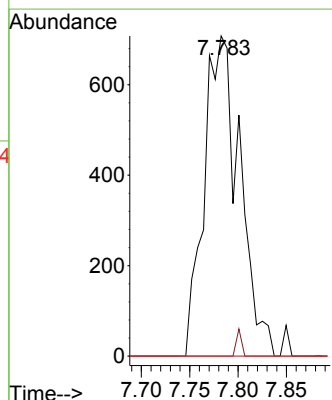
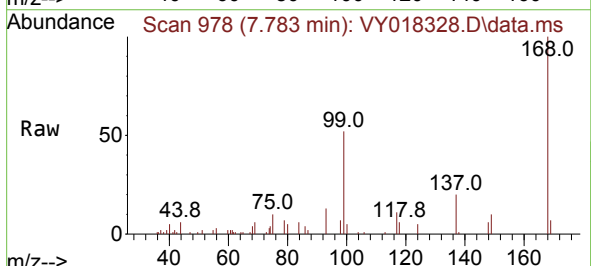
Tgt Ion: 117 Resp: 1812

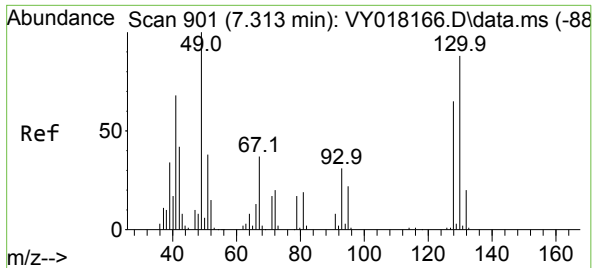
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

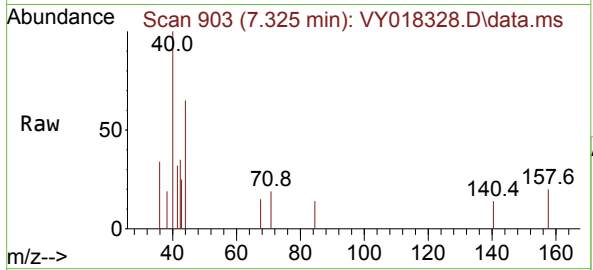
121 0.0 24.0 36.0#



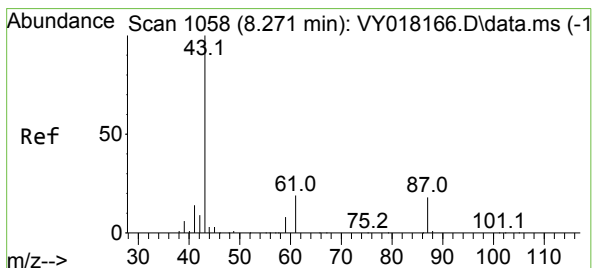
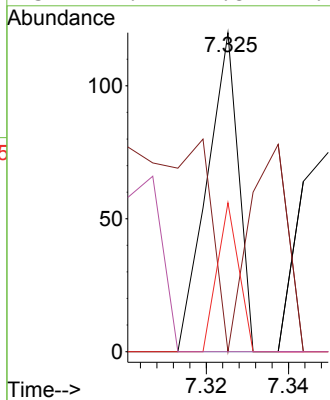
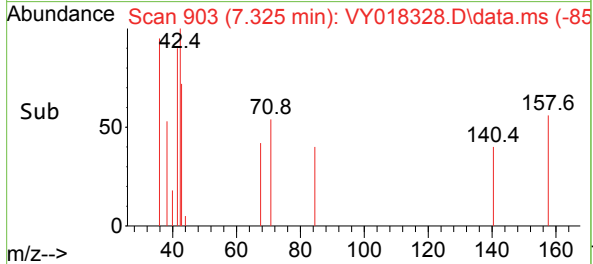


#41
Methacrylonitrile
Concen: 1.428 ug/l
RT: 7.325 min Scan# 901
Delta R.T. 0.012 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

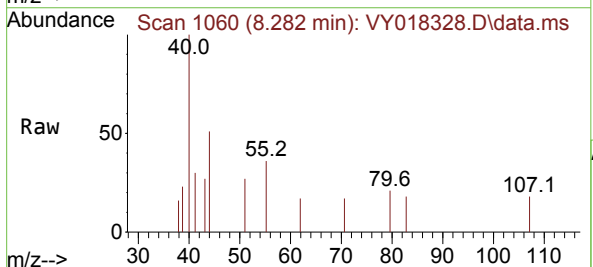
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE



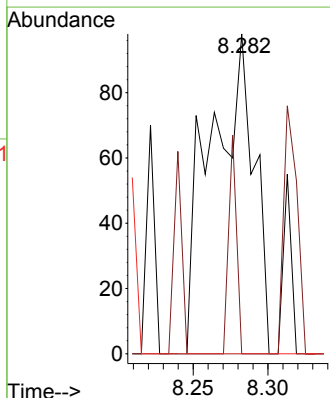
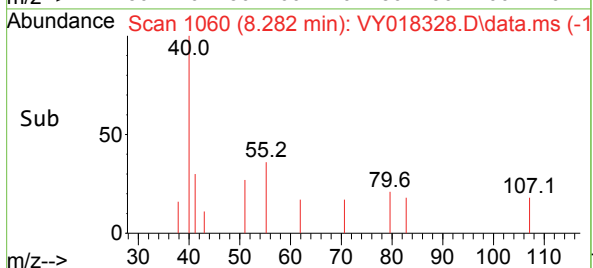
Tgt Ion:	41	Resp:	64
Ion	Ratio	Lower	Upper
41	100		
39	275.0	48.0	72.0#
67	31.3	75.1	112.7#
52	71.9	29.8	44.6#

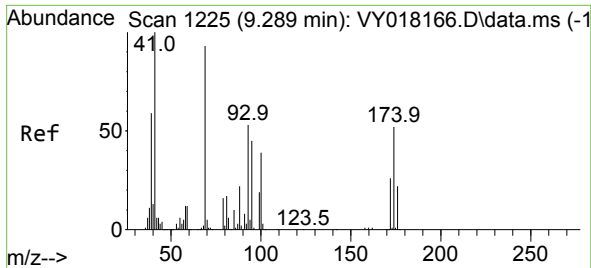


#43
Isopropyl Acetate
Concen: 1.239 ug/l
RT: 8.282 min Scan# 1060
Delta R.T. 0.012 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27



Tgt Ion:	43	Resp:	197
Ion	Ratio	Lower	Upper
43	100		
61	12.7	27.9	41.9#
87	0.0	13.1	19.7#

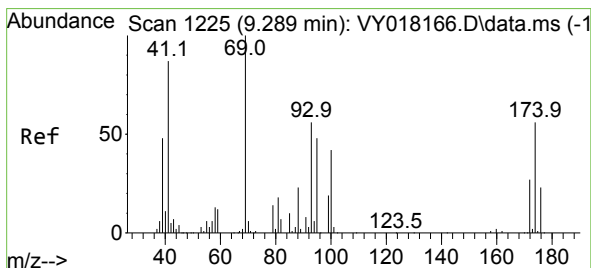
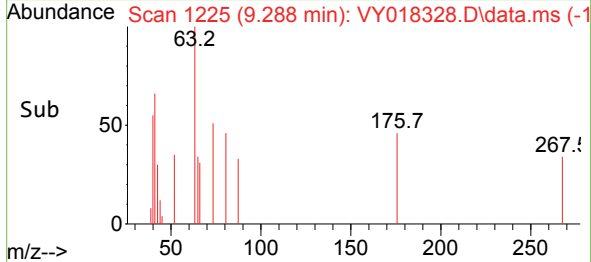
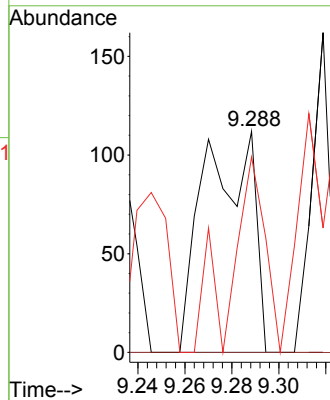
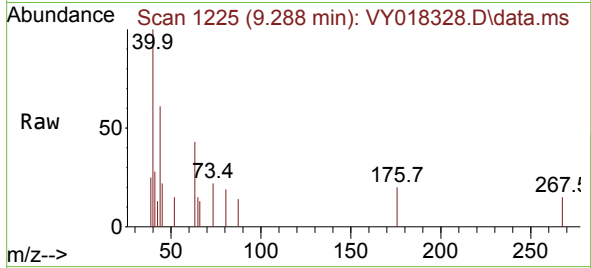




#48
Methyl methacrylate
Concen: 2.236 ug/l
RT: 9.288 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

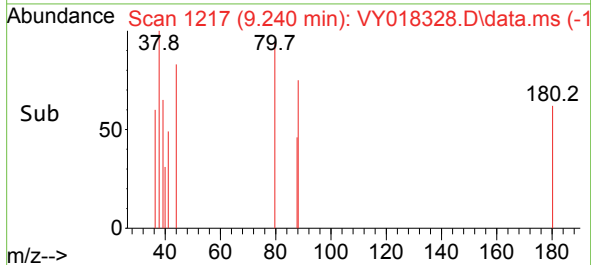
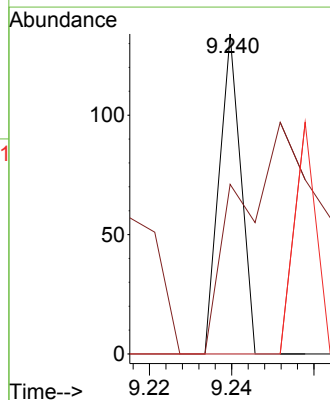
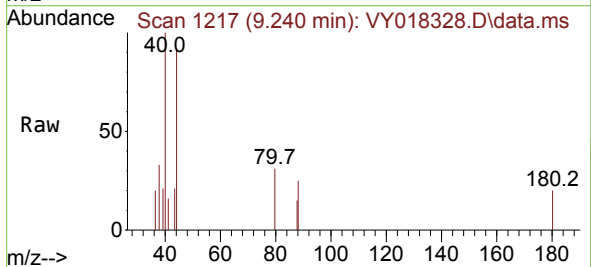
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

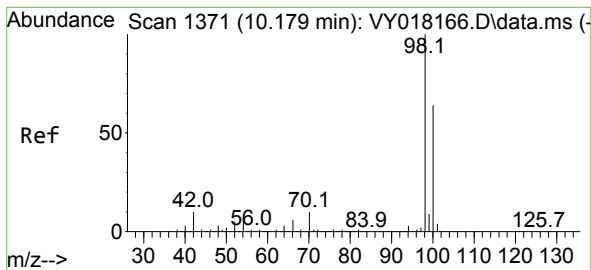
Tgt Ion: 41 Resp: 163
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 61.3 43.6 65.4



#49
1,4-Dioxane
Concen: 49.525 ug/l
RT: 9.240 min Scan# 1217
Delta R.T. -0.049 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 263.3 0.0 0.0#
58 71.4 49.3 73.9





#50

Toluene-d8

Concen: 49.630 ug/l

RT: 10.178 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

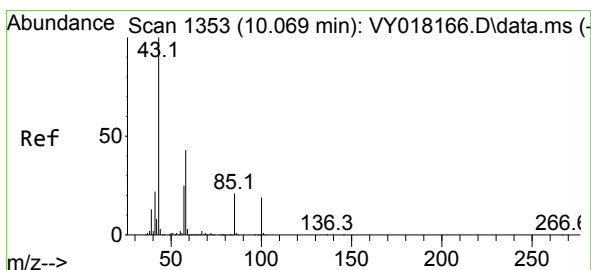
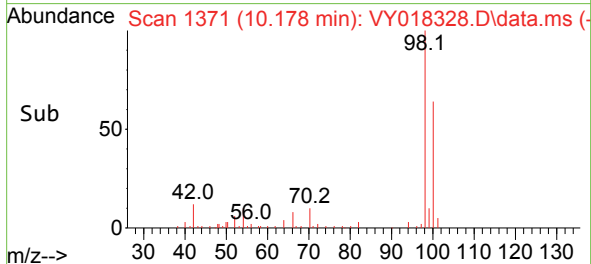
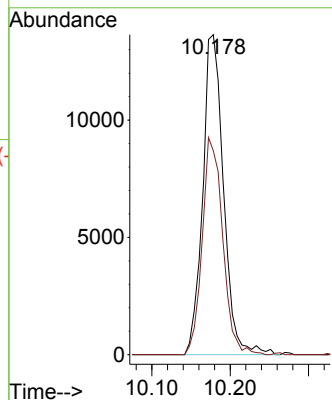
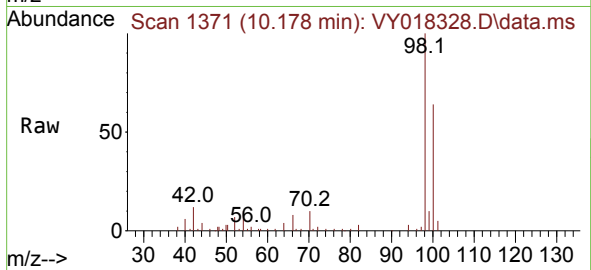
B-112-SB02RE

Tgt Ion: 98 Resp: 25153

Ion Ratio Lower Upper

98 100

100 66.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 1.739 ug/l

RT: 9.843 min Scan# 1316

Delta R.T. -0.226 min

Lab File: VY018328.D

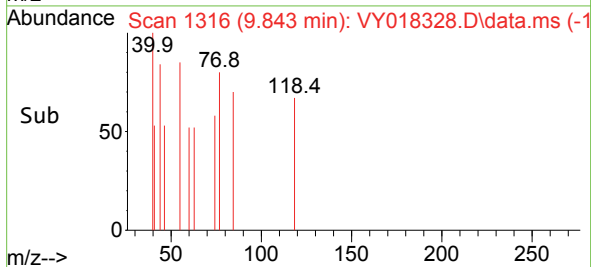
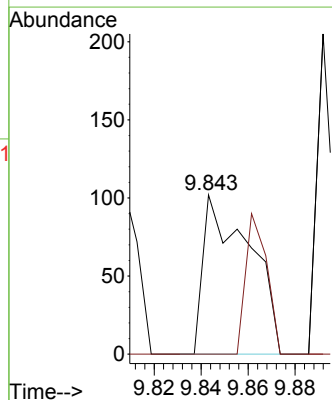
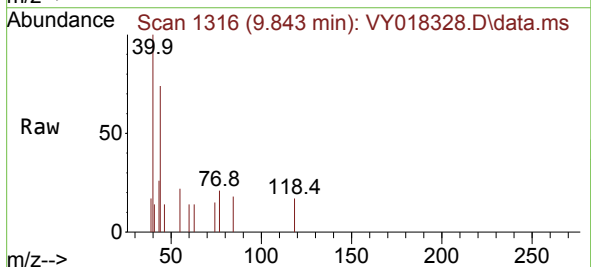
Acq: 20 May 2024 12:27

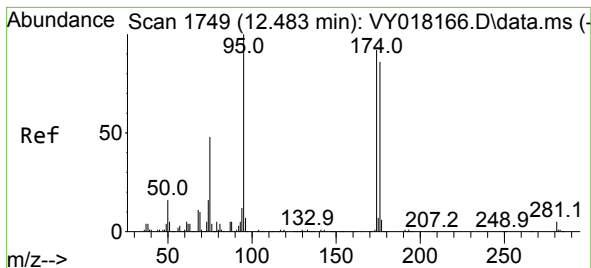
Tgt Ion: 43 Resp: 139

Ion Ratio Lower Upper

43 100

58 40.3 35.7 53.5

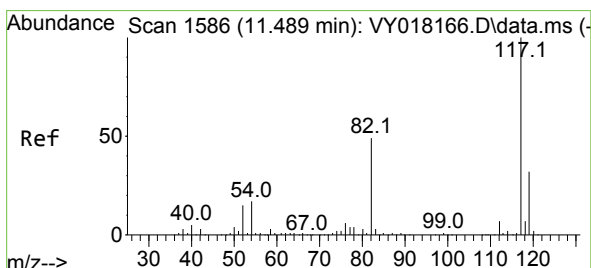
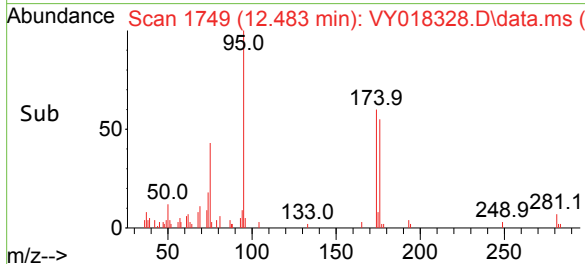
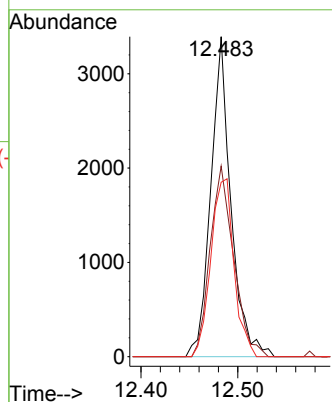
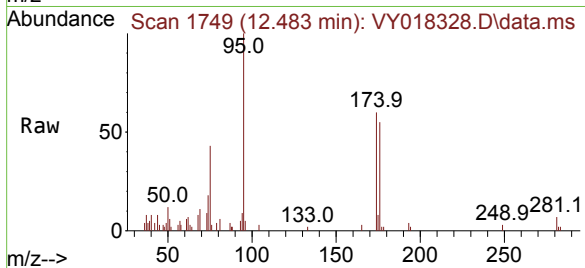




#62
4-Bromofluorobenzene
Concen: 30.024 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

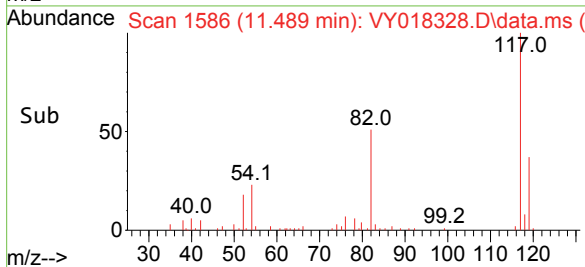
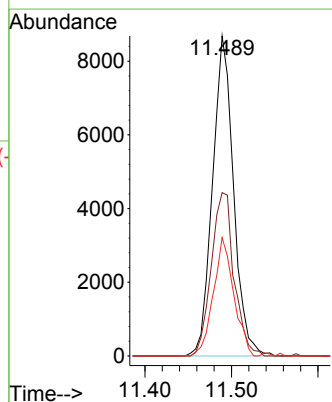
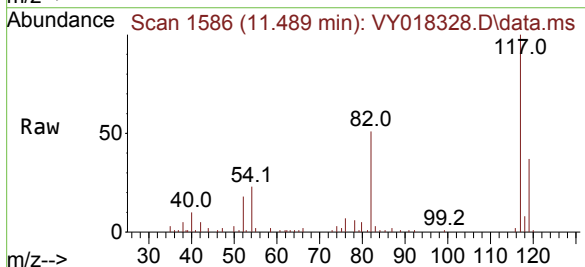
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

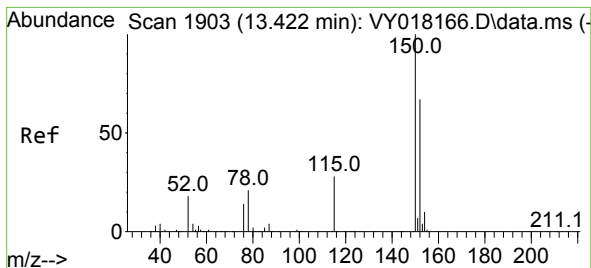
Tgt Ion: 95 Resp: 4914
Ion Ratio Lower Upper
95 100
174 69.5 0.0 175.6
176 63.7 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 117 Resp: 14628
Ion Ratio Lower Upper
117 100
82 51.1 42.4 63.6
119 37.0 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1903

Delta R.T. 0.012 min

Lab File: VY018328.D

Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

B-112-SB02RE

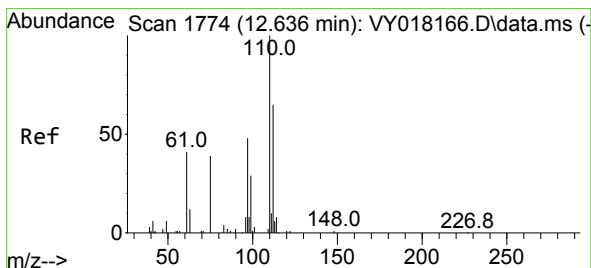
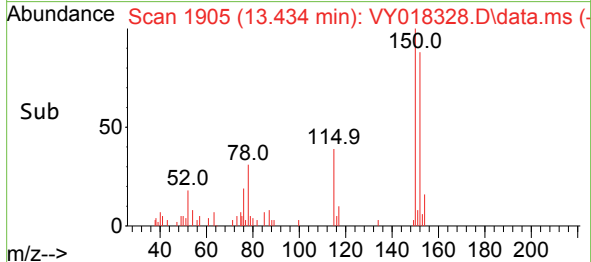
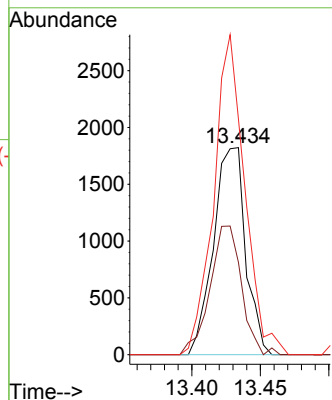
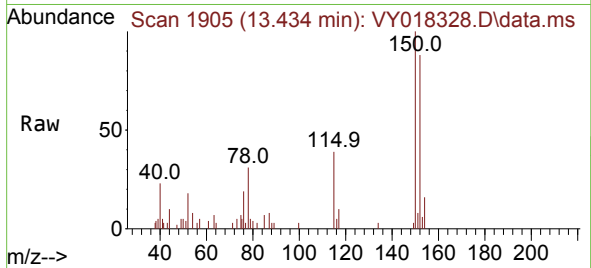
Tgt Ion:152 Resp: 2978

Ion Ratio Lower Upper

152 100

115 60.7 28.2 84.7

150 148.6 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 101.355 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.153 min

Lab File: VY018328.D

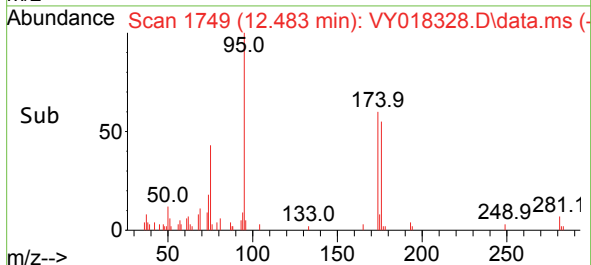
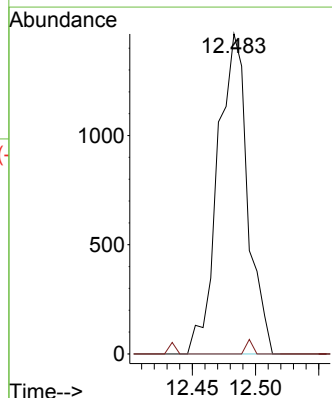
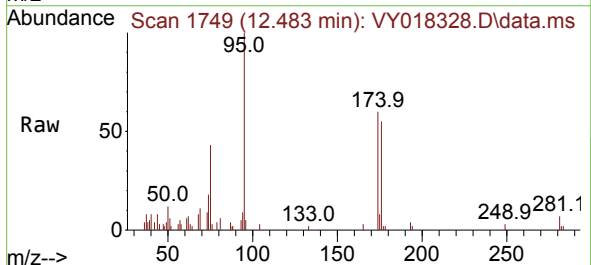
Acq: 20 May 2024 12:27

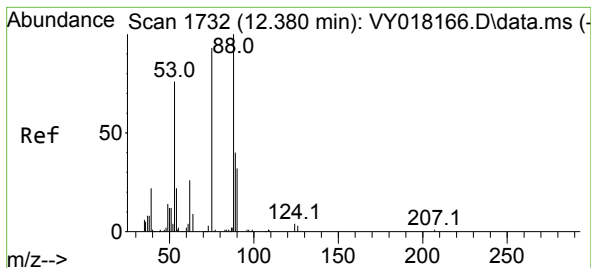
Tgt Ion: 75 Resp: 2416

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

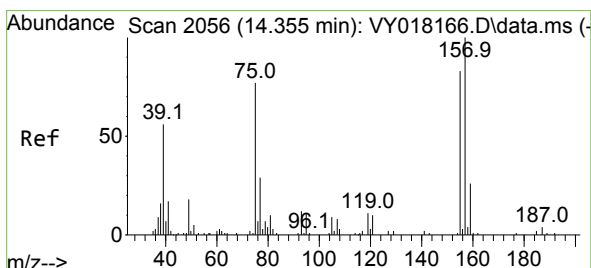
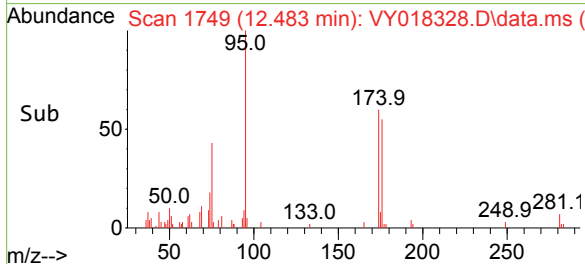
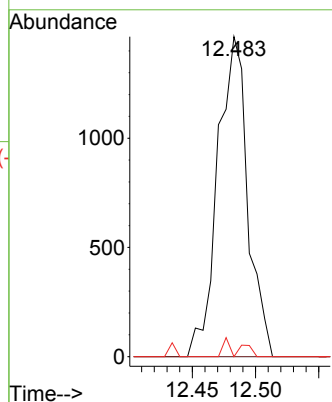
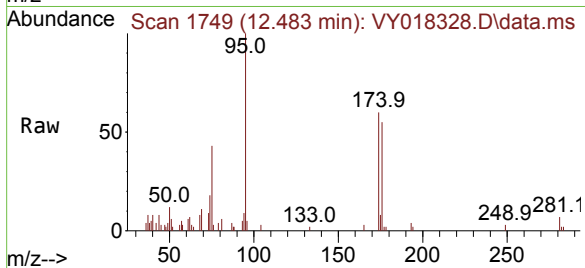




#81
trans-1,4-Dichloro-2-butene
Concen: 195.277 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

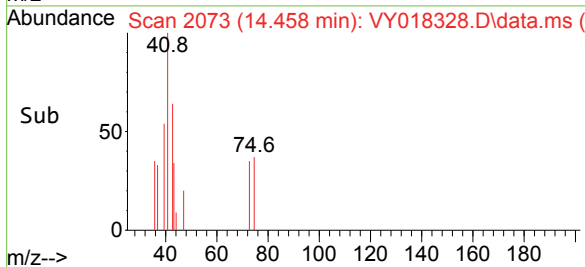
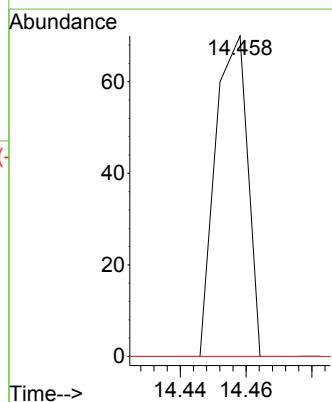
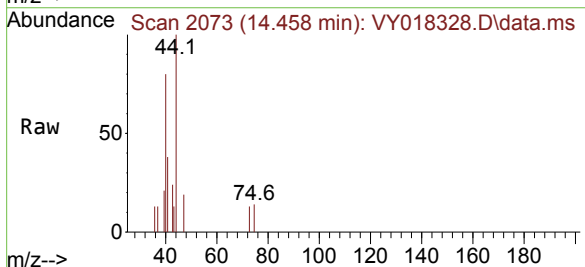
Instrument :
MSVOA_Y
ClientSampleId :
B-112-SB02RE

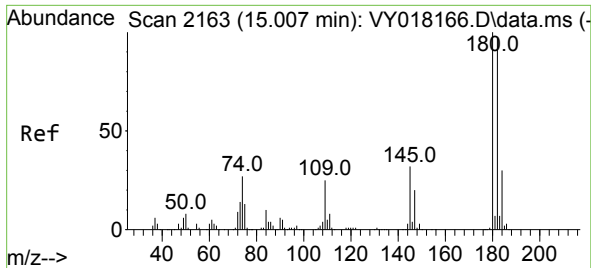
Tgt Ion: 75 Resp: 2416
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 1.3 35.8 53.6#



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.897 ug/l
RT: 14.458 min Scan# 2073
Delta R.T. 0.103 min
Lab File: VY018328.D
Acq: 20 May 2024 12:27

Tgt Ion: 75 Resp: 48
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#





#93

1,2,4-Trichlorobenzene

Concen: 1.630 ug/l

RT: 15.007 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY018328.D

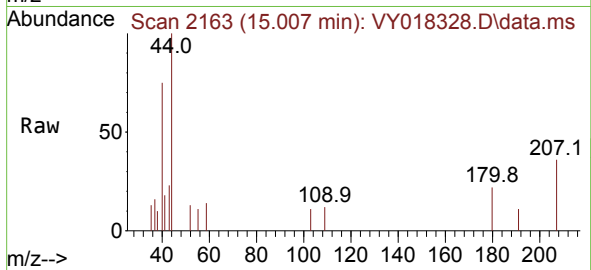
Acq: 20 May 2024 12:27

Instrument :

MSVOA_Y

ClientSampleId :

B-112-SB02RE



Tgt Ion:180 Resp: 78

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

145 0.0 14.2 42.6#

