

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050523\
 Data File : VY013620.D
 Acq On : 05 May 2023 13:11
 Operator : KP/MD
 Sample : 02598-04RE
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-328RE

Quant Time: May 08 00:23:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

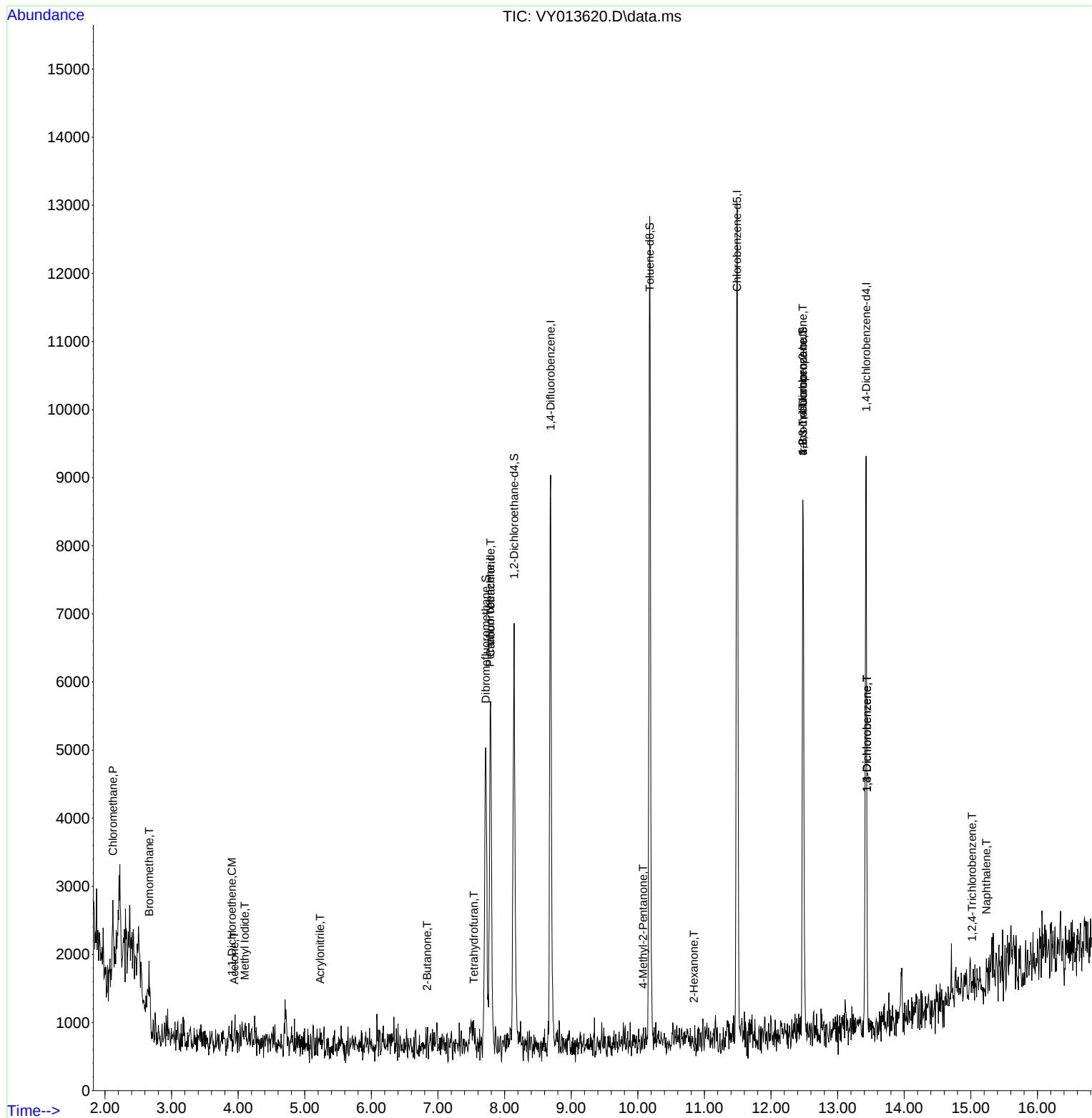
Internal Standards						
1) Pentafluorobenzene	7.783	168	4305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	6950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	7534	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	2189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	4627	98.046	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 196.100%#	
35) Dibromofluoromethane	7.716	113	3037	69.477	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 138.960%	
50) Toluene-d8	10.179	98	8343	53.652	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 107.300%	
62) 4-Bromofluorobenzene	12.477	95	2484	47.383	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 94.760%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	463	8.440	ug/l	97
5) Bromomethane	2.662	94	421	9.672	ug/l	# 46
10) Methyl Iodide	4.101	142	417	7.153	ug/l	# 63
12) 1,1-Dichloroethene	3.906	96	50	1.118	ug/l	# 1
13) Acrolein	3.832	56	20	Below Cal	#	16
15) Acrylonitrile	5.228	53	40	2.535	ug/l	# 18
16) Acetone	3.942	43	104	5.596	ug/l	# 43
20) Methylene Chloride	4.692	84	351	Below Cal	#	28
25) 2-Butanone	6.838	43	45	1.909	ug/l	# 47
29) Tetrahydrofuran	7.539	42	27	1.840	ug/l	# 32
38) Carbon Tetrachloride	7.789	117	244	3.209	ug/l	# 11
51) 4-Methyl-2-Pentanone	10.081	43	132	2.571	ug/l	# 37
59) 2-Hexanone	10.843	43	67	1.795	ug/l	# 26
76) 1,2,3-Trichloropropane	12.477	75	1364	46.204	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.477	75	1364	94.513	ug/l	# 12
87) 1,3-Dichlorobenzene	13.440	146	104	1.361	ug/l	# 25
88) 1,4-Dichlorobenzene	13.440	146	104	1.347	ug/l	# 25
93) 1,2,4-Trichlorobenzene	15.019	180	62	1.507	ug/l	# 37
95) Naphthalene	15.233	128	255	2.856	ug/l	# 69

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

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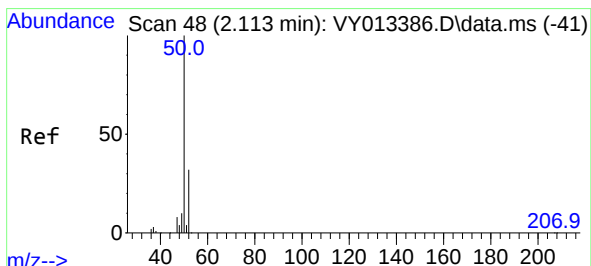
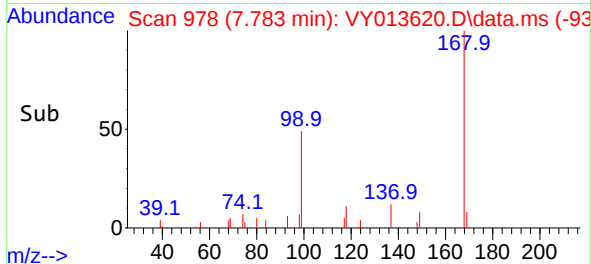
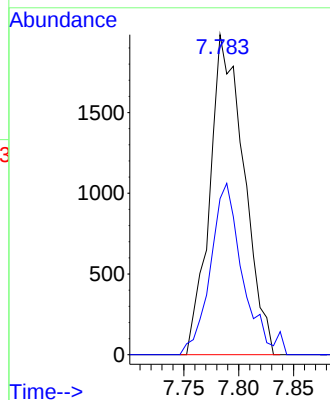
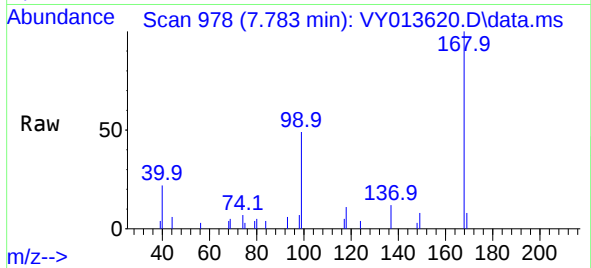




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

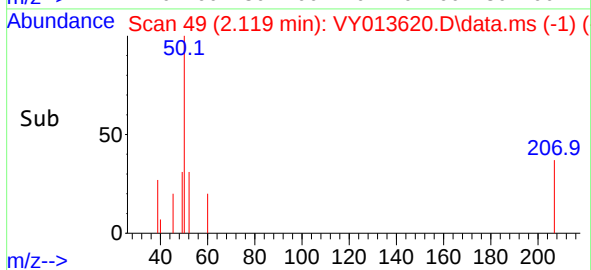
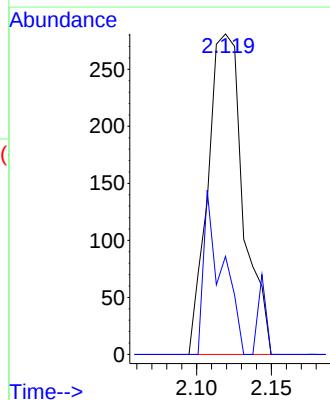
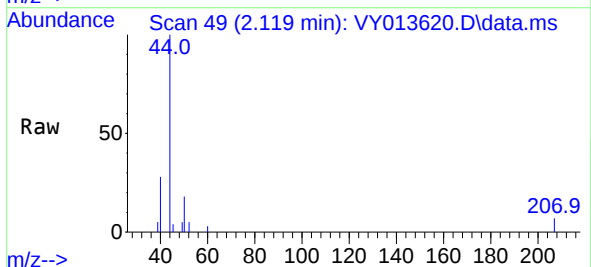
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

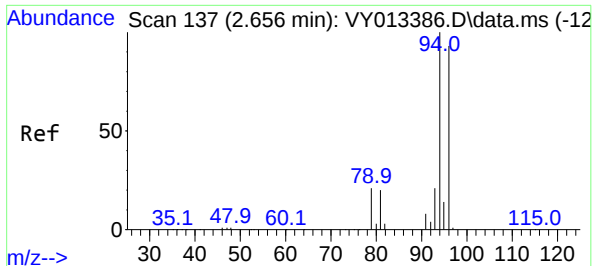
Tgt Ion:168 Resp: 4305
Ion Ratio Lower Upper
168 100
99 48.7 41.8 62.6



#3
Chloromethane
Concen: 8.440 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 50 Resp: 463
Ion Ratio Lower Upper
50 100
52 30.6 25.9 38.9

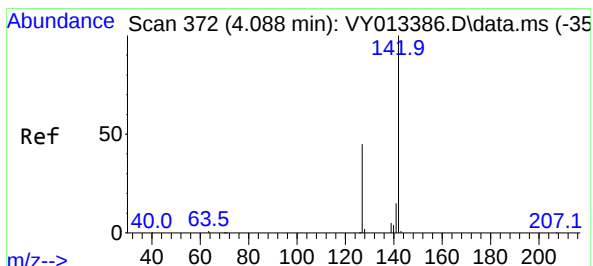
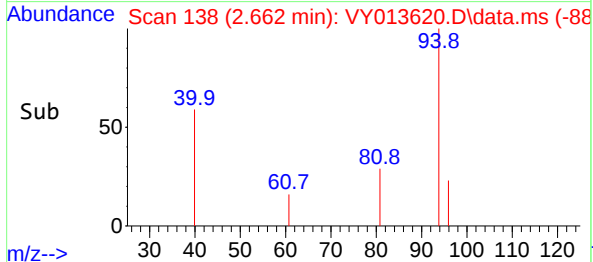
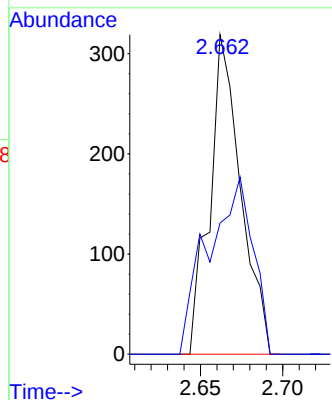
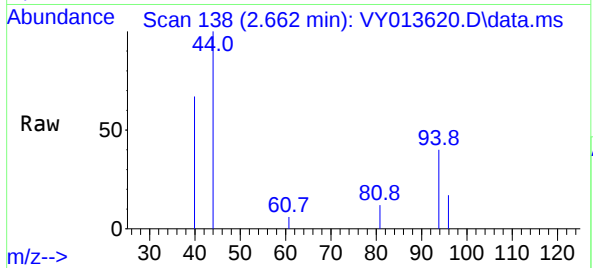




#5
Bromomethane
Concen: 9.672 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

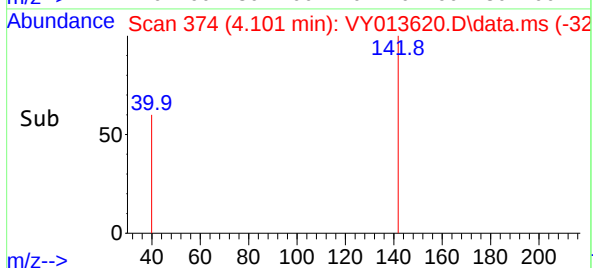
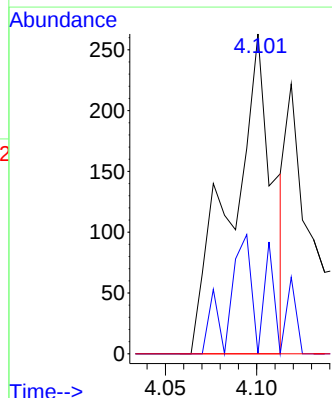
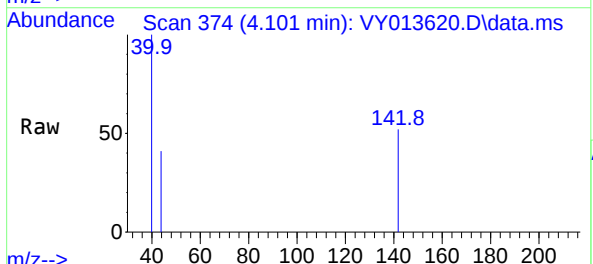
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

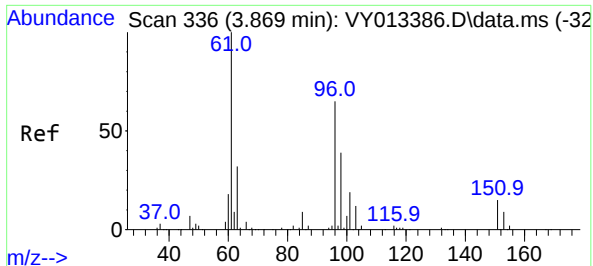
Tgt Ion: 94 Resp: 421
Ion Ratio Lower Upper
94 100
96 41.1 74.2 111.2#



#10
Methyl Iodide
Concen: 7.153 ug/l
RT: 4.101 min Scan# 374
Delta R.T. 0.013 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 142 Resp: 417
Ion Ratio Lower Upper
142 100
127 20.1 36.1 54.1#
141 0.0 11.6 17.4#





#12

1,1-Dichloroethene

Concen: 1.118 ug/l

RT: 3.906 min Scan# 34

Delta R.T. 0.037 min

Lab File: VY013620.D

Acq: 05 May 2023 13:11

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-328RE

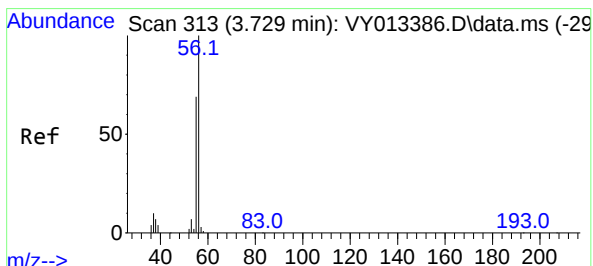
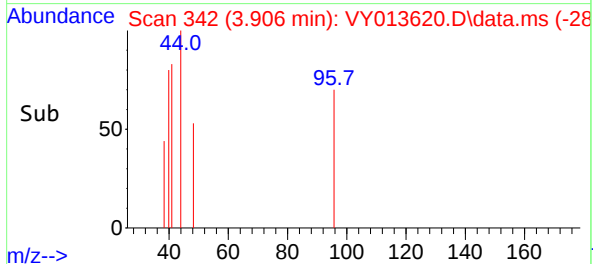
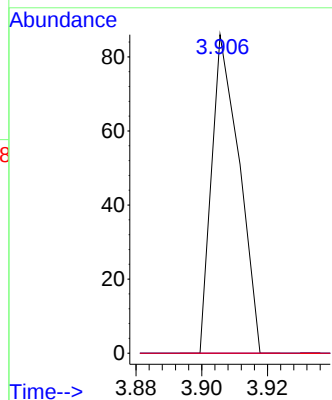
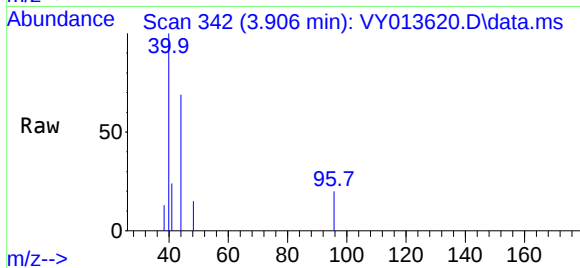
Tgt Ion: 96 Resp: 50

Ion Ratio Lower Upper

96 100

61 0.0 123.9 185.9#

98 0.0 48.9 73.3#



#13

Acrolein

Concen: Below Cal

RT: 3.832 min Scan# 330

Delta R.T. 0.103 min

Lab File: VY013620.D

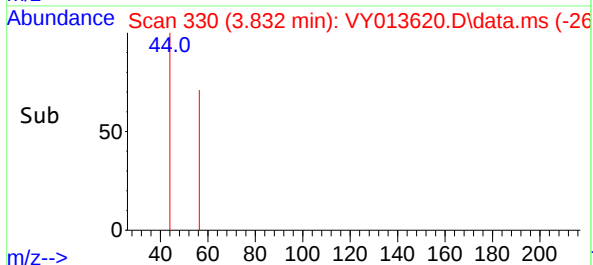
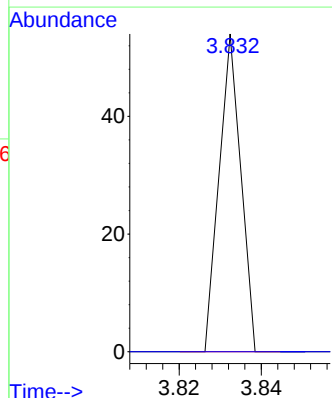
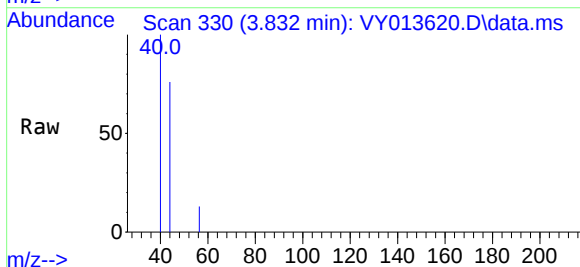
Acq: 05 May 2023 13:11

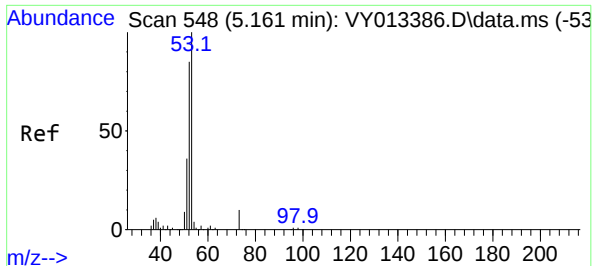
Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 54.1 81.1#

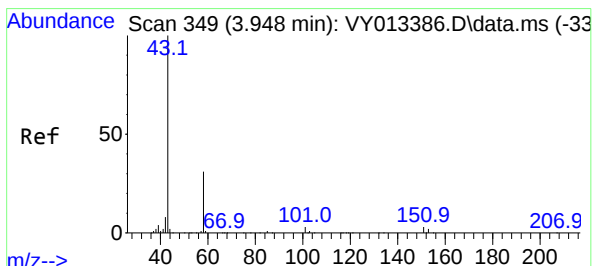
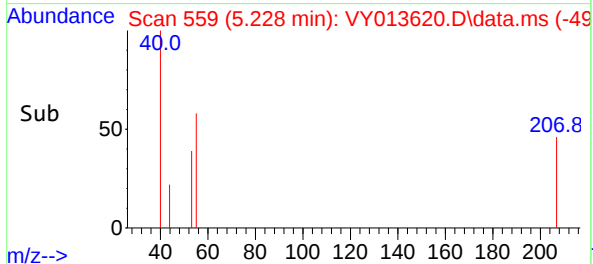
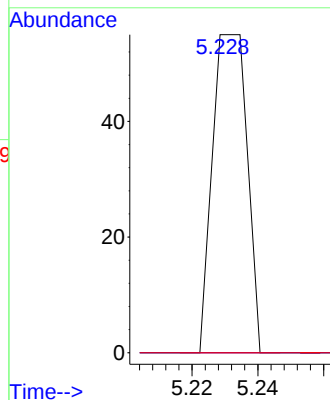
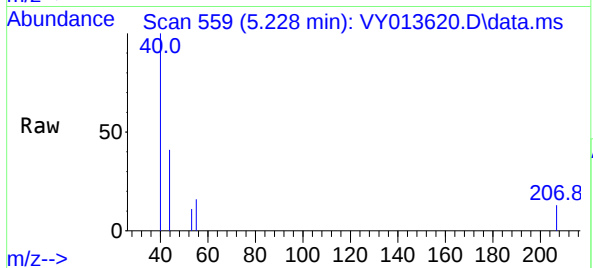




#15
Acrylonitrile
Concen: 2.535 ug/l
RT: 5.228 min Scan# 51
Delta R.T. 0.067 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

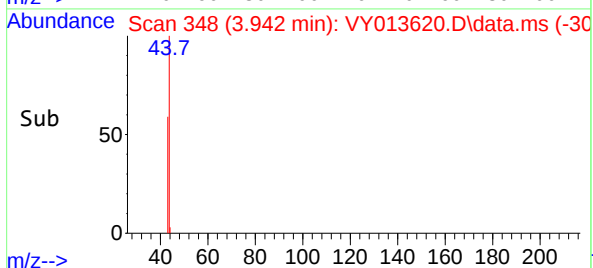
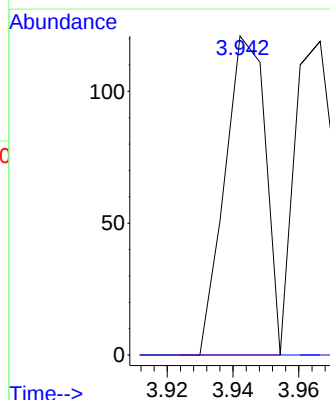
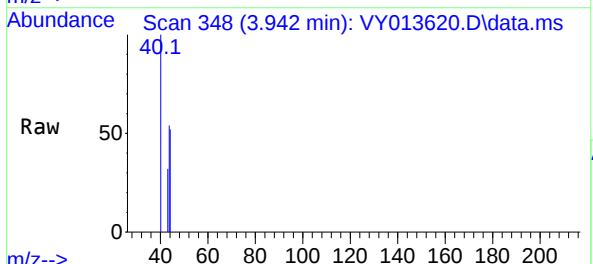
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

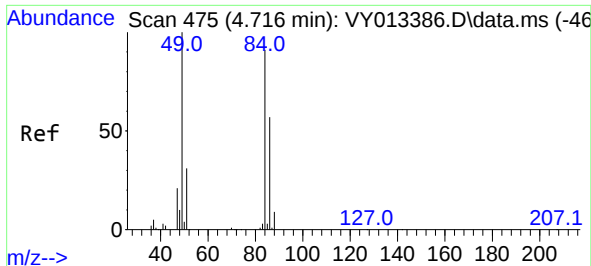
Tgt Ion: 53	Resp: 40
Ion Ratio	Lower Upper
53 100	
52 0.0	65.4 98.0#
51 0.0	29.3 43.9#



#16
Acetone
Concen: 5.596 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

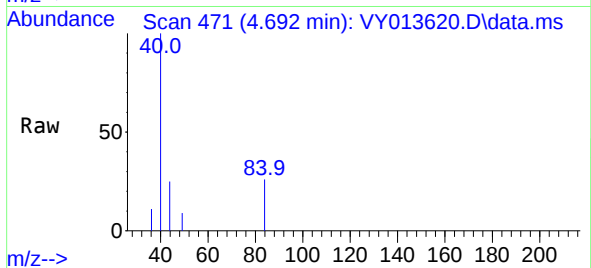
Tgt Ion: 43	Resp:	104	
Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.4	38.0#



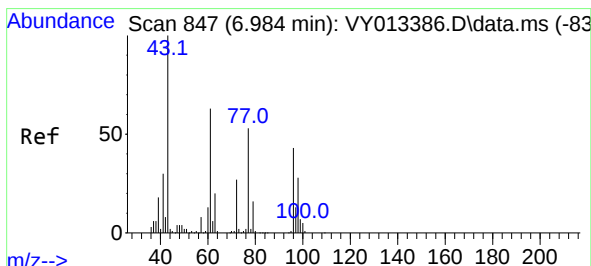
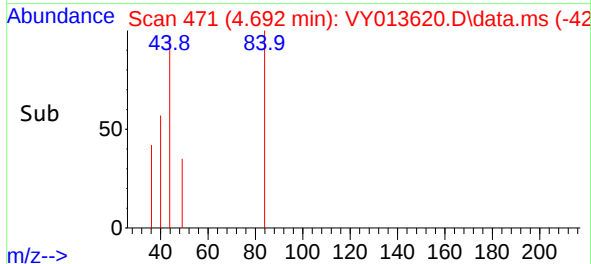
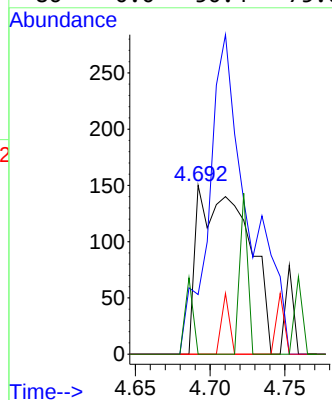


#20
Methylene Chloride
Concen: Below Cal
RT: 4.692 min Scan# 41
Delta R.T. -0.024 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

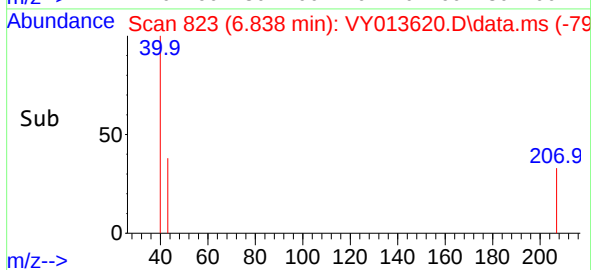
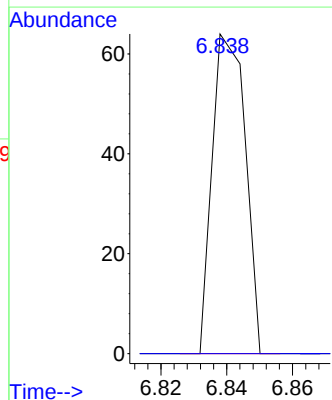
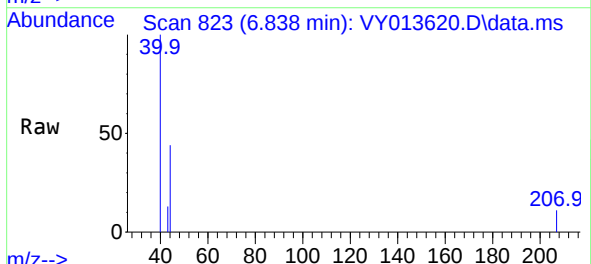


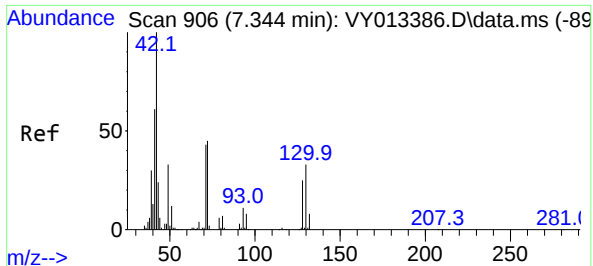
Tgt Ion: 84 Resp: 351
Ion Ratio Lower Upper
84 100
49 35.3 88.0 132.0#
51 0.0 27.4 41.0#
86 0.0 50.4 75.6#



#25
2-Butanone
Concen: 1.909 ug/l
RT: 6.838 min Scan# 823
Delta R.T. -0.146 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 43 Resp: 45
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#

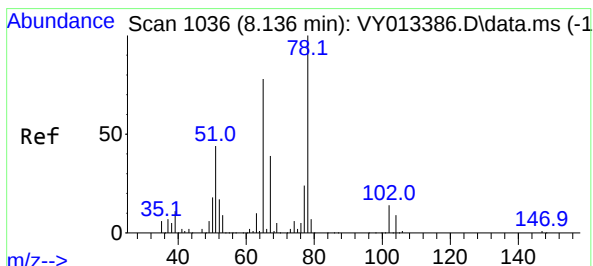
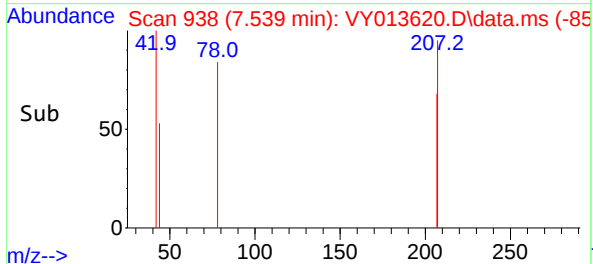
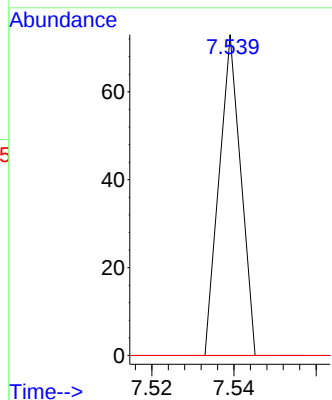
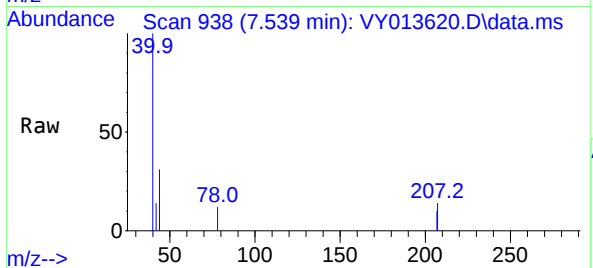




#29
Tetrahydrofuran
Concen: 1.840 ug/l
RT: 7.539 min Scan# 91
Delta R.T. 0.195 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

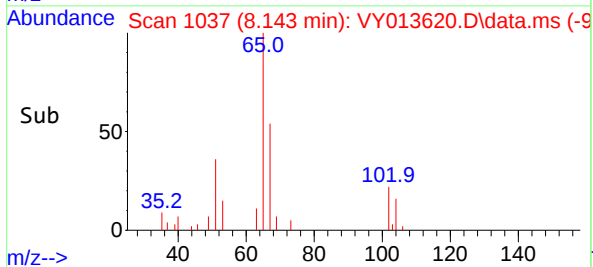
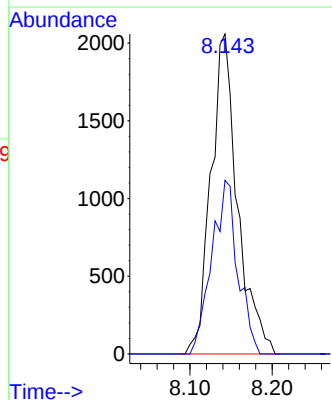
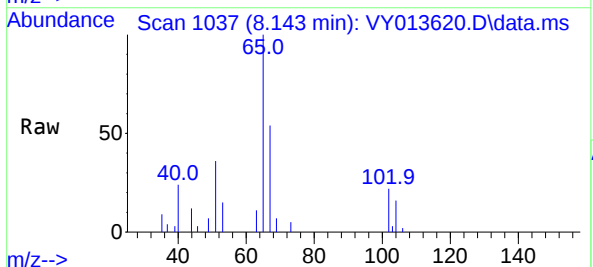
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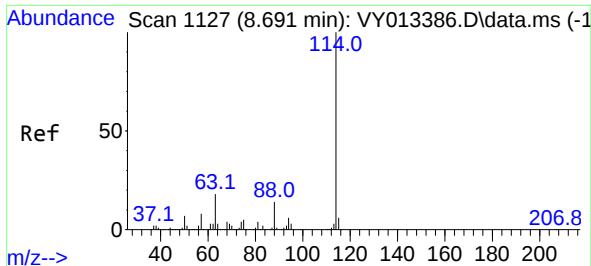
Tgt Ion: 42 Resp: 27
Ion Ratio Lower Upper
42 100
72 0.0 35.9 53.9#
71 0.0 34.3 51.5#



#33
1,2-Dichloroethane-d4
Concen: 98.046 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.007 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 65 Resp: 4627
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013620.D

Acq: 05 May 2023 13:11

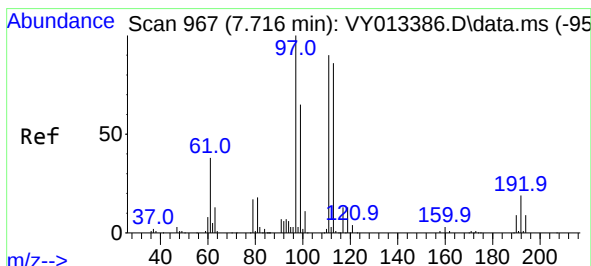
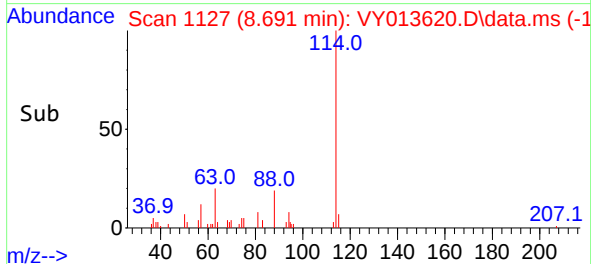
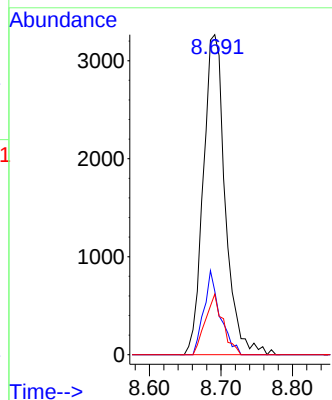
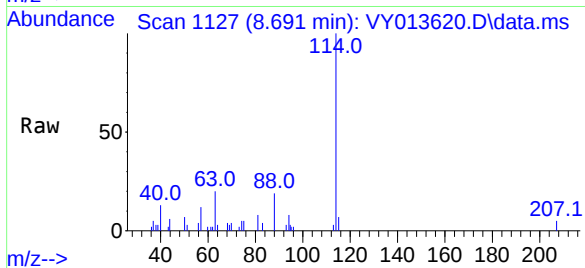
Instrument :

MSVOA_Y

ClientSampleId :

ETGI-328RE

Tgt Ion:114	Resp:	6950
Ion	Ratio	Lower Upper
114	100	
63	19.9	0.0 36.6
88	18.9	0.0 28.8



#35

Dibromofluoromethane

Concen: 69.477 ug/l

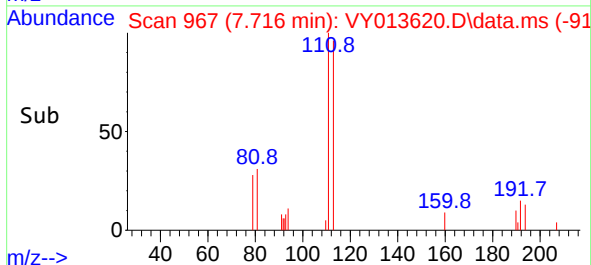
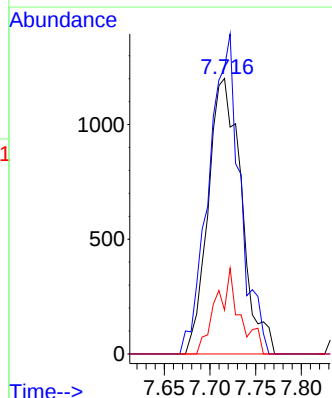
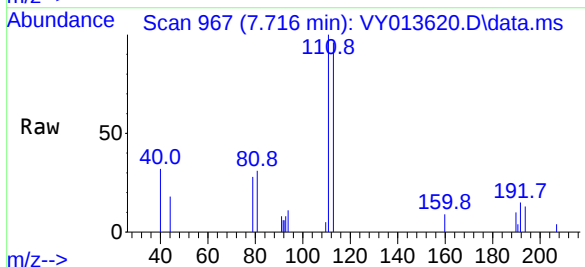
RT: 7.716 min Scan# 967

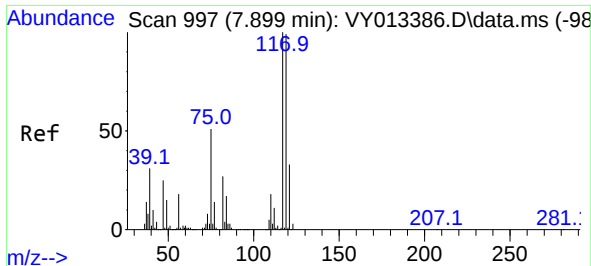
Delta R.T. -0.000 min

Lab File: VY013620.D

Acq: 05 May 2023 13:11

Tgt Ion:113	Resp:	3037
Ion	Ratio	Lower Upper
113	100	
111	108.9	82.2 123.2
192	22.3	16.7 25.1

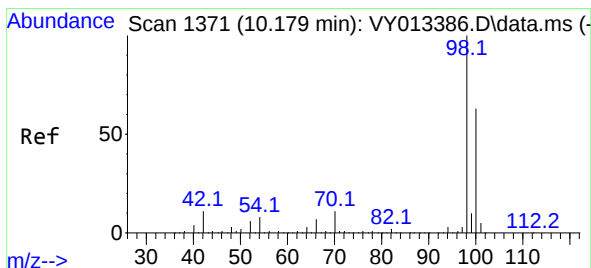
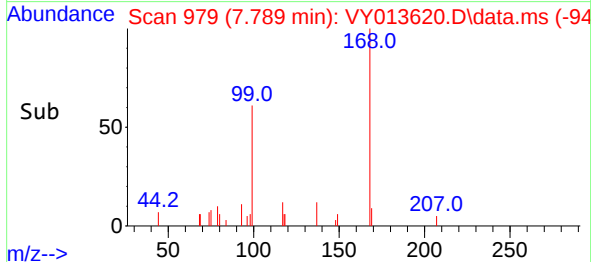
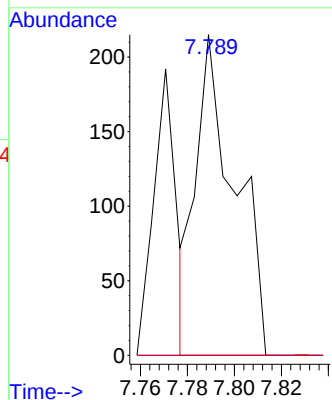
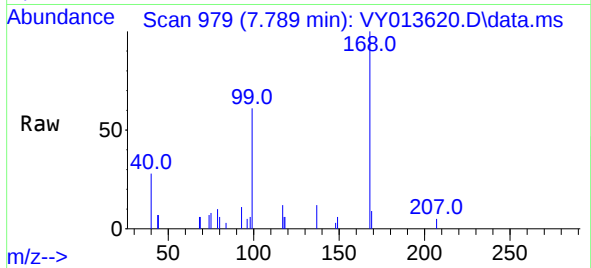




#38
Carbon Tetrachloride
Concen: 3.209 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

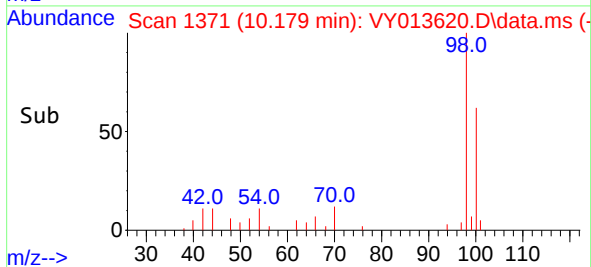
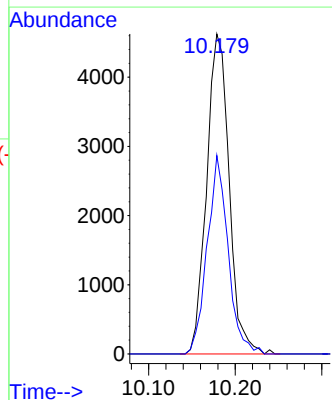
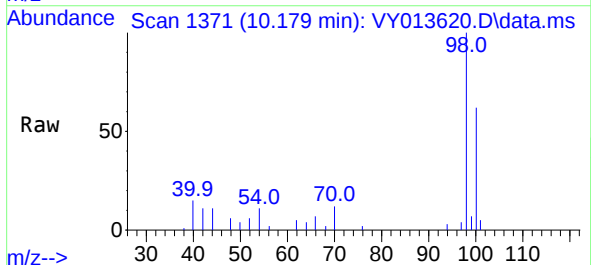
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

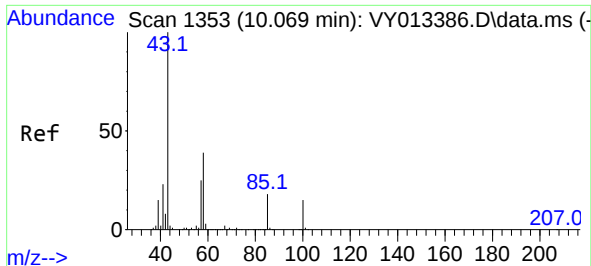
Tgt Ion:117 Resp: 244
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.6#
121 0.0 26.6 40.0#



#50
Toluene-d8
Concen: 53.652 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 98 Resp: 8343
Ion Ratio Lower Upper
98 100
100 57.8 50.5 75.7

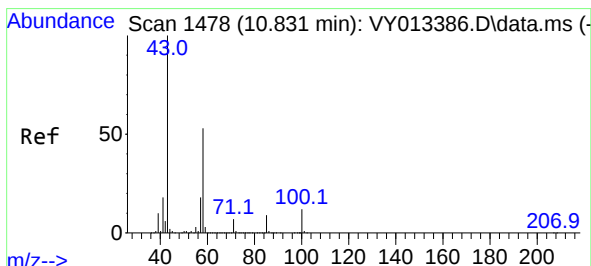
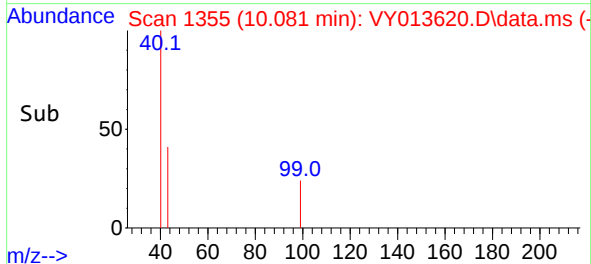
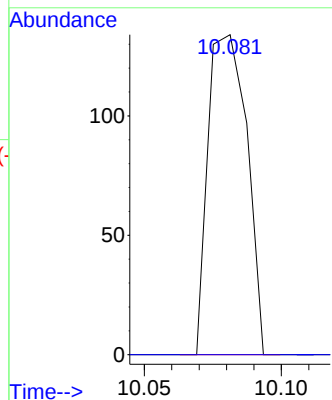
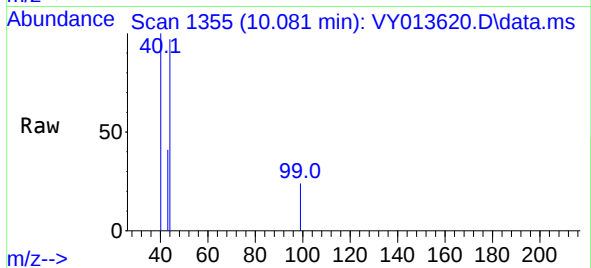




#51
4-Methyl-2-Pentanone
Concen: 2.571 ug/l
RT: 10.081 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

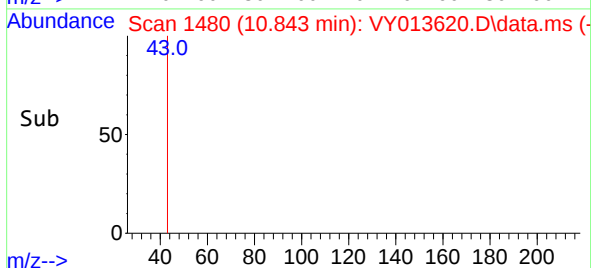
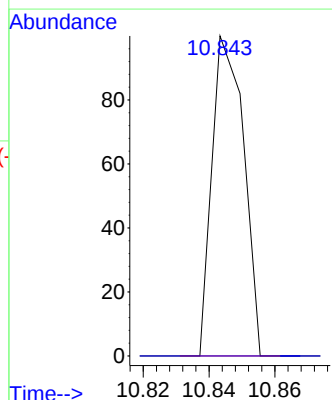
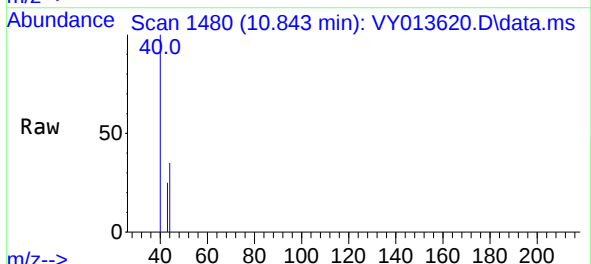
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

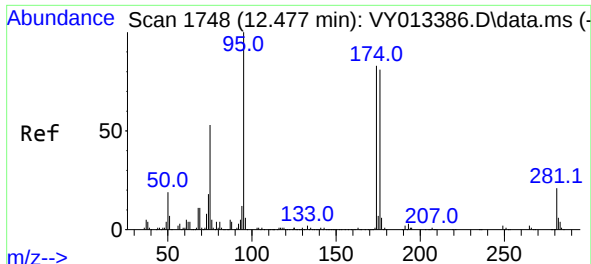
Tgt Ion: 43 Resp: 132
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#



#59
2-Hexanone
Concen: 1.795 ug/l
RT: 10.843 min Scan# 1480
Delta R.T. 0.012 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#

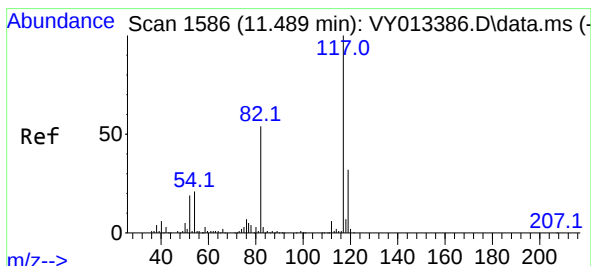
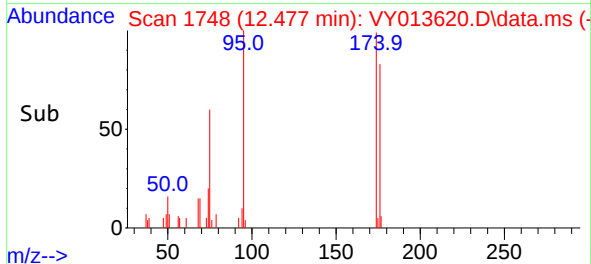
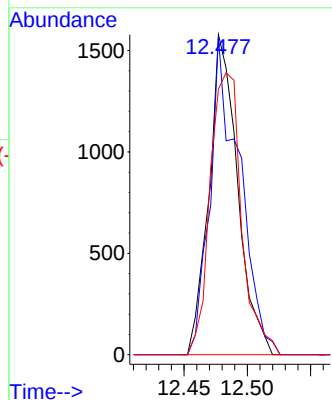
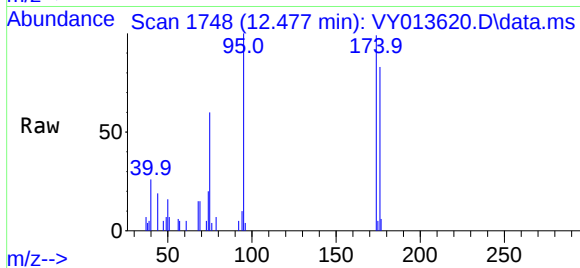




#62
4-Bromofluorobenzene
Concen: 47.383 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

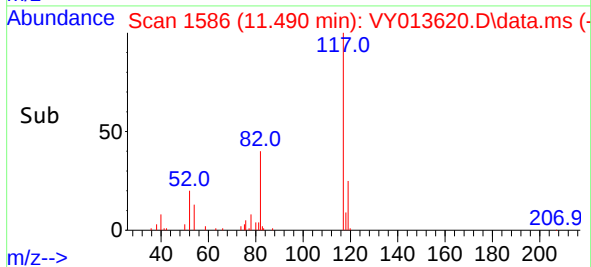
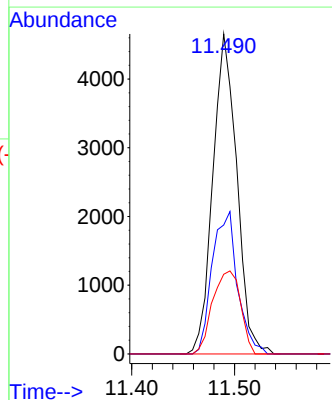
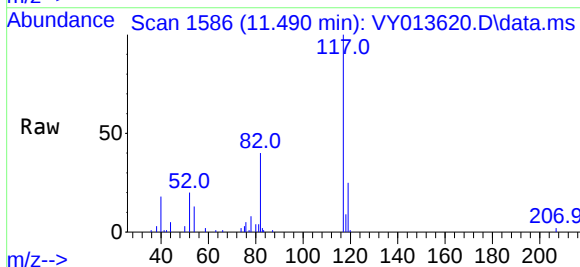
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

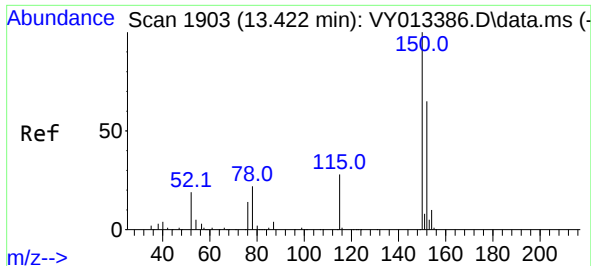
Tgt Ion:	95	Resp:	2484
Ion	Ratio	Lower	Upper
95	100		
174	102.0	0.0	182.0
176	96.6	0.0	175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion:	117	Resp:	7534
Ion	Ratio	Lower	Upper
117	100		
82	40.3	43.0	64.6#
119	24.9	25.5	38.3#

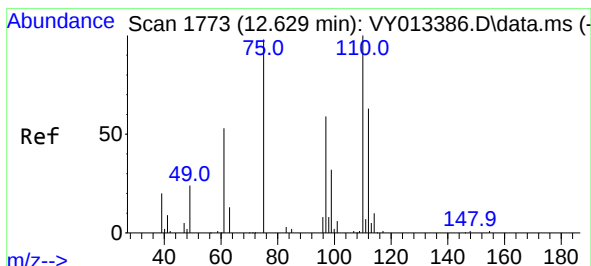
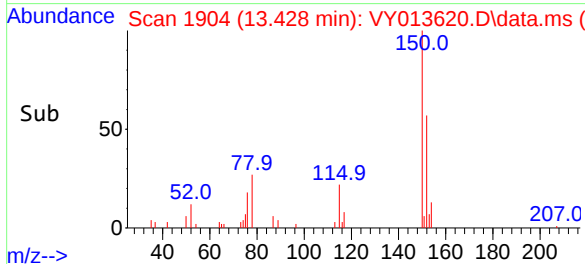
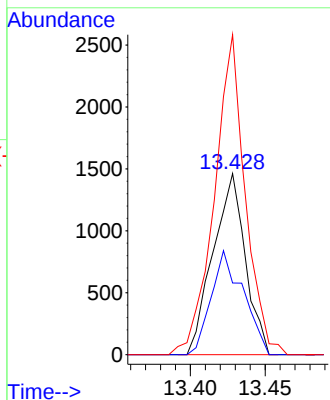
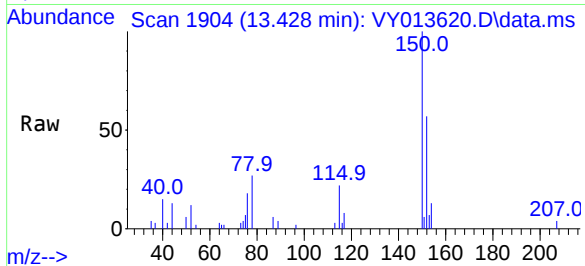




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

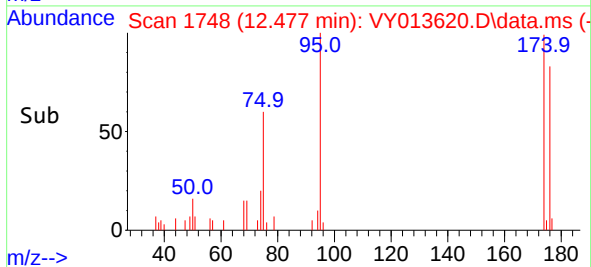
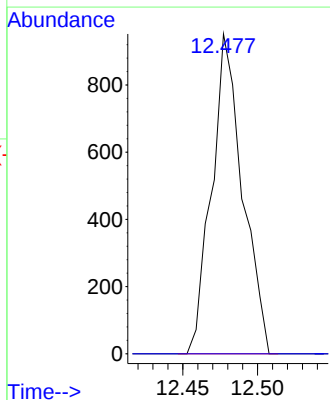
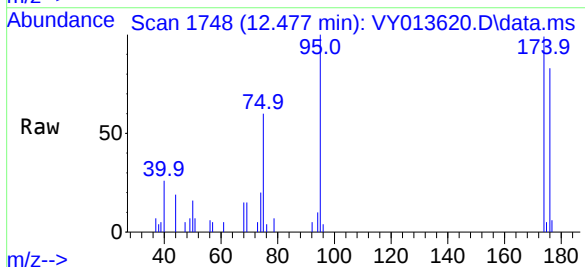
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

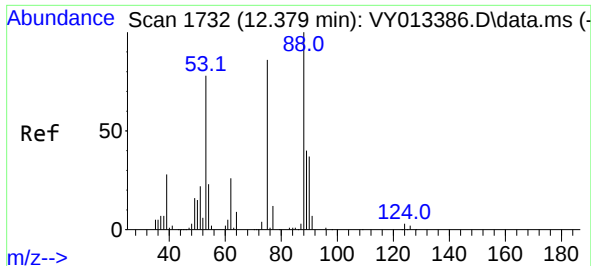
Tgt Ion:152 Resp: 2189
Ion Ratio Lower Upper
152 100
115 57.3 28.1 84.2
150 169.3 0.0 352.0



#76
1,2,3-Trichloropropane
Concen: 46.204 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion: 75 Resp: 1364
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

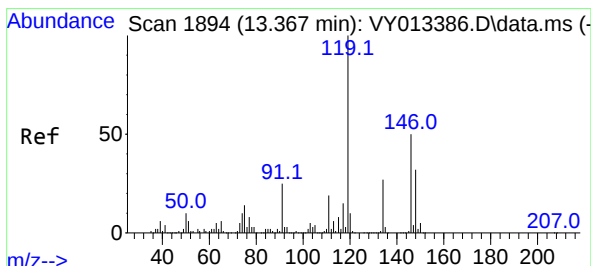
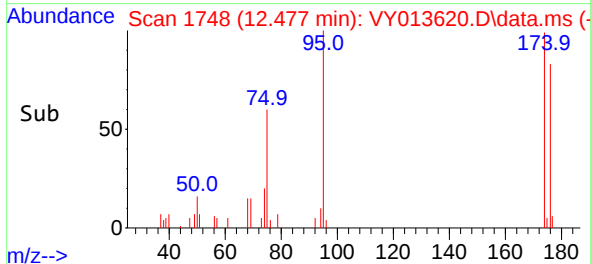
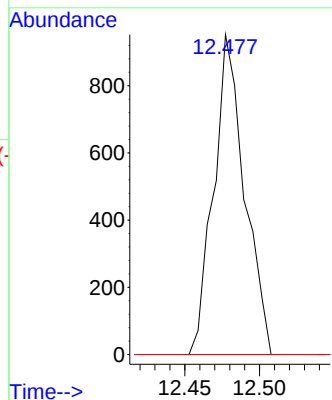
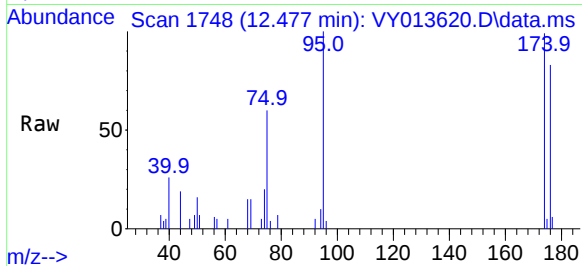




#81
trans-1,4-Dichloro-2-butene
Concen: 94.513 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

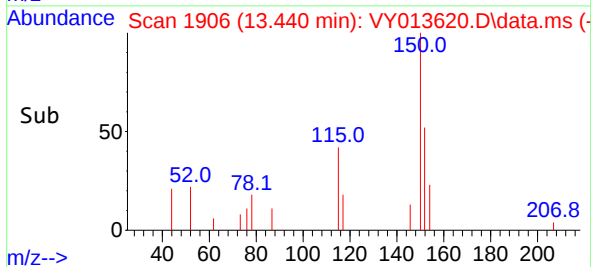
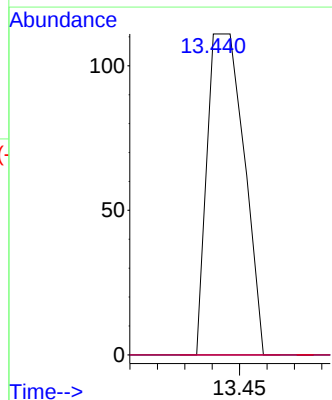
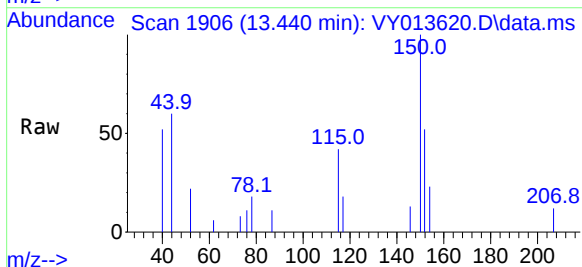
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

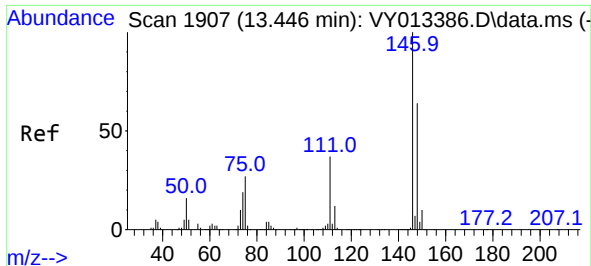
Tgt Ion: 75 Resp: 1364
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#



#87
1,3-Dichlorobenzene
Concen: 1.361 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.073 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Tgt Ion:146 Resp: 104
Ion Ratio Lower Upper
146 100
111 0.0 19.3 57.9#
148 0.0 31.9 95.7#

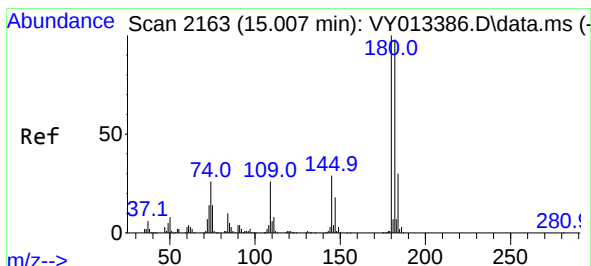
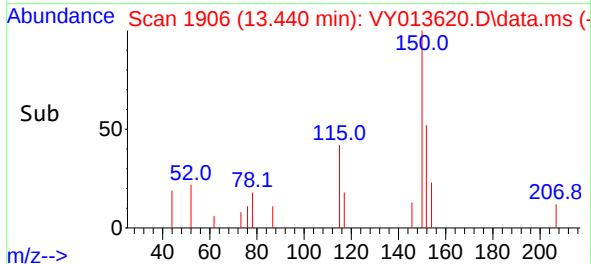
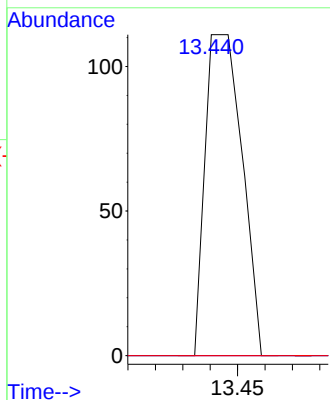
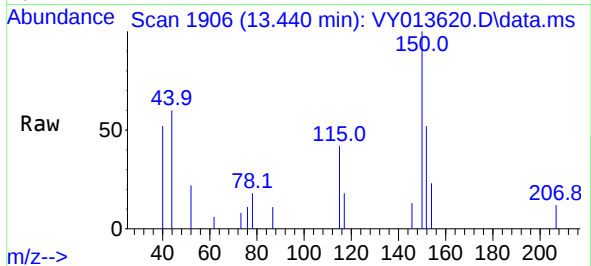




#88
1,4-Dichlorobenzene
Concen: 1.347 ug/l
RT: 13.440 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

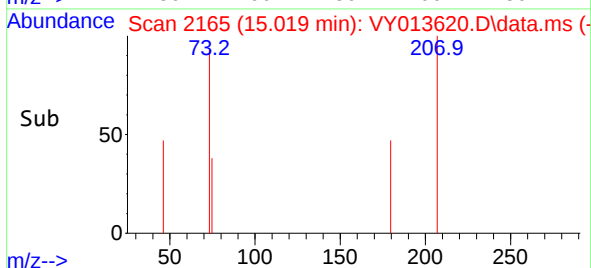
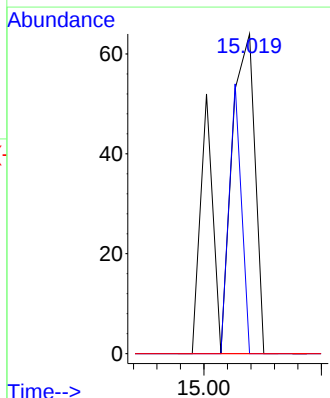
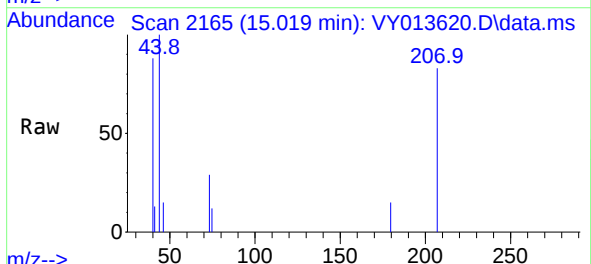
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE

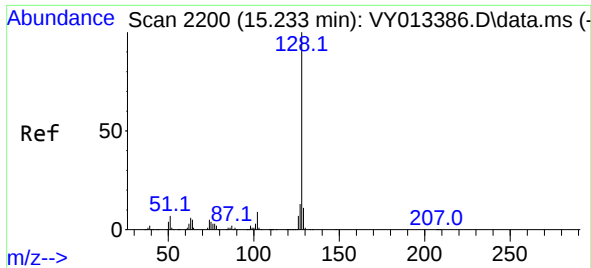
Tgt Ion:146	Resp:	104
Ion	Ratio	Lower Upper
146	100	
111	0.0	18.9 56.5#
148	0.0	31.9 95.5#



#93
1,2,4-Trichlorobenzene
Concen: 1.507 ug/l
RT: 15.019 min Scan# 2165
Delta R.T. 0.012 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

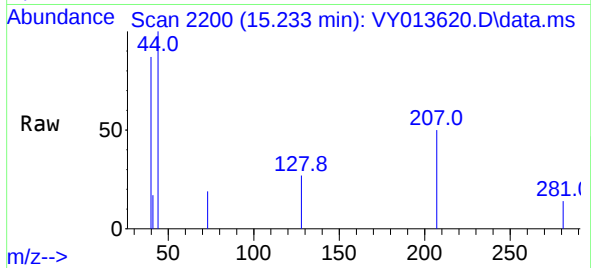
Tgt Ion:180	Resp:	62
Ion	Ratio	Lower Upper
180	100	
182	32.3	48.5 145.5#
145	0.0	15.0 45.0#





#95
Naphthalene
Concen: 2.856 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY013620.D
Acq: 05 May 2023 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ETGI-328RE



Tgt Ion:	128	Resp:	255
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.8	13.2#

