

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090322\
 Data File : VX031090.D
 Acq On : 03 Sep 2022 18:13
 Operator : JC/MD
 Sample : N4357-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

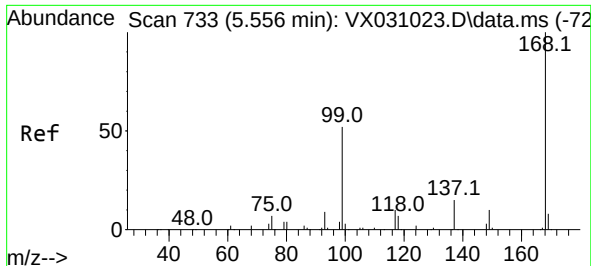
Instrument :
 MSVOA_X
 ClientSampleId :
 RE137-20220823

Quant Time: Sep 06 00:15:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X090122W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 02 02:49:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	215915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	345141	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	313964	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	145605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	134497	48.412	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.820%
35) Dibromofluoromethane	5.391	113	129225	51.306	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.620%
50) Toluene-d8	8.653	98	472827	51.007	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.020%
62) 4-Bromofluorobenzene	11.079	95	165323	50.495	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.980%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	887	0.399	ug/l	79
3) Chloromethane	1.288	50	484	0.925	ug/l #	25
5) Bromomethane	1.630	94	276	0.266	ug/l #	2
6) Chloroethane	1.715	64	1129	2.379	ug/l #	41
9) 1,1,2-Trichlorotrifluo...	2.331	101	34929	13.447	ug/l	90
10) Methyl Iodide	2.459	142	661	3.156	ug/l #	81
11) Tert butyl alcohol	2.983	59	20	Below Cal	#	74
12) 1,1-Dichloroethene	2.319	96	7822	3.118	ug/l	92
16) Acetone	2.398	43	585	0.545	ug/l #	40
20) Methylene Chloride	2.794	84	254	Below Cal	#	65
24) 1,1-Dichloroethane	3.611	63	2480	0.548	ug/l #	90
27) cis-1,2-Dichloroethene	4.501	96	6624	2.117	ug/l	86
29) Tetrahydrofuran	5.026	42	233	0.218	ug/l #	32
30) Chloroform	5.093	83	4121	0.831	ug/l #	80
31) Cyclohexane	5.556	56	3345	0.881	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	14675	4.160	ug/l #	50
38) Carbon Tetrachloride	5.678	117	6383	1.743	ug/l	97
39) Methylcyclohexane	7.129	83	30724	7.027	ug/l #	1
42) 1,2-Dichloroethane	6.099	62	697	0.209	ug/l #	73
44) Trichloroethene	7.135	130	2896361	903.418	ug/l	97
49) 1,4-Dioxane	7.696	88	714	9.706	ug/l #	84
51) 4-Methyl-2-Pentanone	8.647	43	1366	0.444	ug/l #	1
55) 1,1,2-Trichloroethane	9.153	97	1635	0.585	ug/l #	83
60) Dibromochloromethane	9.275	129	9561	3.297	ug/l #	11
64) Tetrachloroethene	9.275	164	9957	3.176	ug/l #	90
76) 1,2,3-Trichloropropane	11.079	75	75875	22.044	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	75875	69.279	ug/l #	12

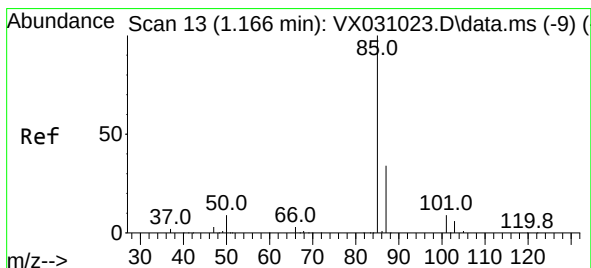
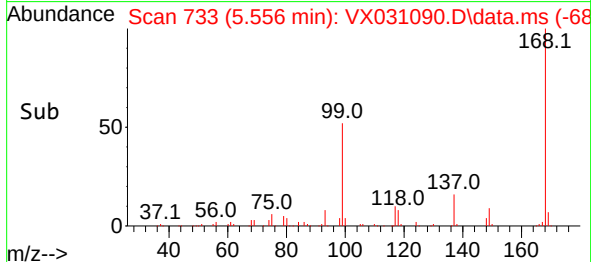
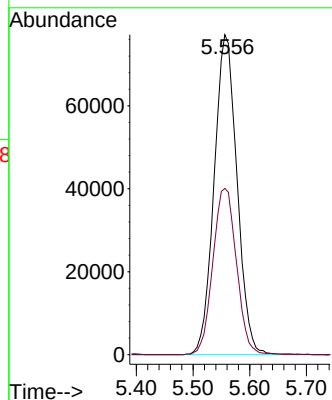
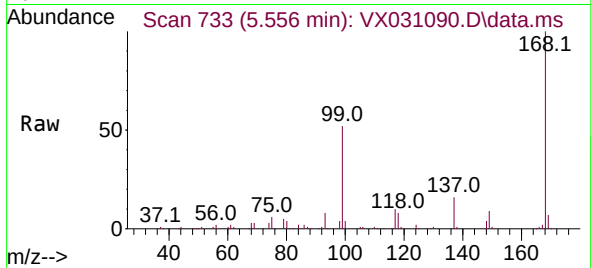
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

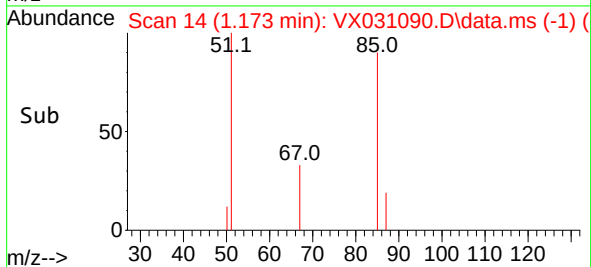
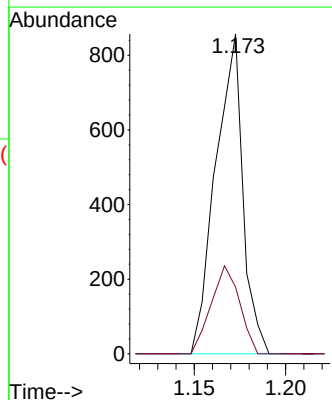
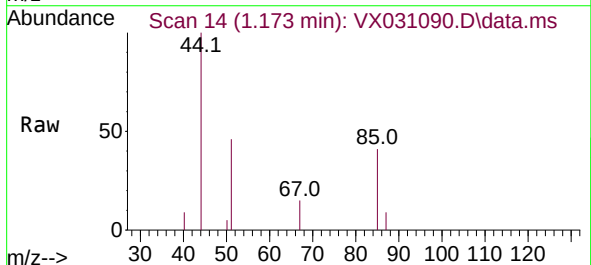
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

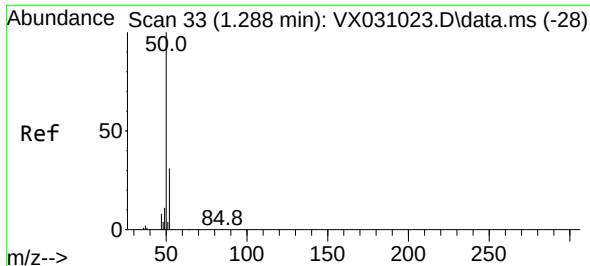
Tgt Ion:168 Resp: 215915
Ion Ratio Lower Upper
168 100
99 52.0 44.0 66.0



#2
Dichlorodifluoromethane
Concen: 0.399 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.007 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 85 Resp: 887
Ion Ratio Lower Upper
85 100
87 20.9 16.5 49.5

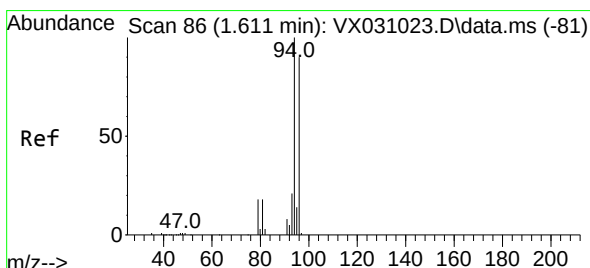
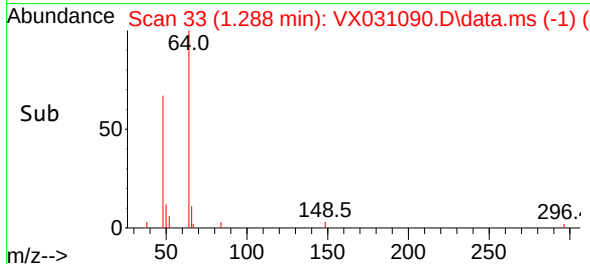
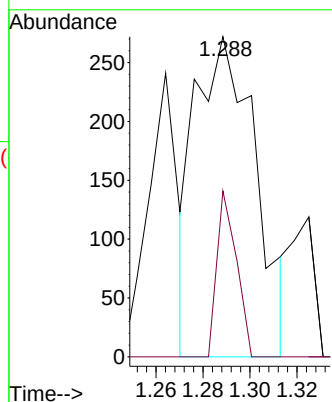
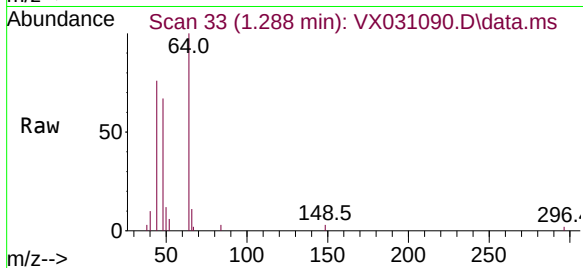




#3
Chloromethane
Concen: 0.925 ug/l
RT: 1.288 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

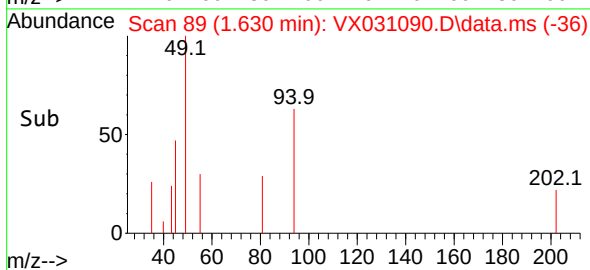
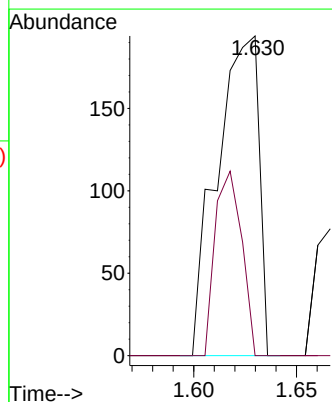
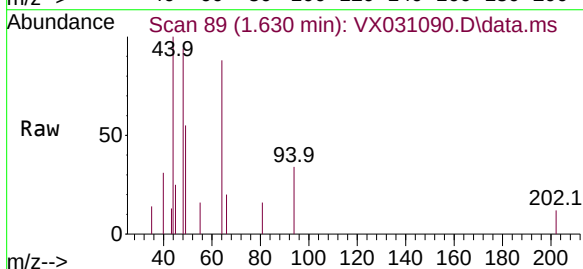
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

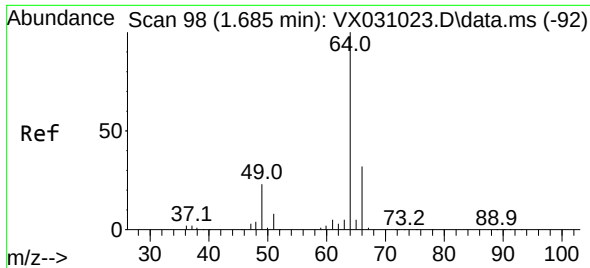
Tgt Ion: 50 Resp: 484
Ion Ratio Lower Upper
50 100
52 75.4 26.3 39.5#



#5
Bromomethane
Concen: 0.266 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.025 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 94 Resp: 276
Ion Ratio Lower Upper
94 100
96 0.0 76.9 115.3#

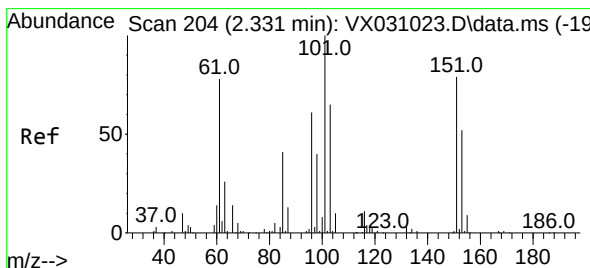
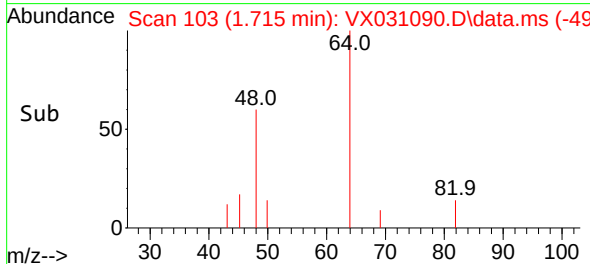
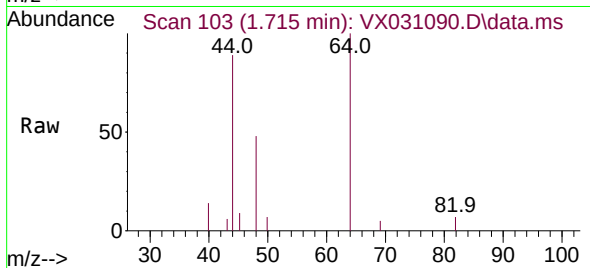




#6
Chloroethane
Concen: 2.379 ug/l
RT: 1.715 min Scan# 103
Delta R.T. 0.030 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

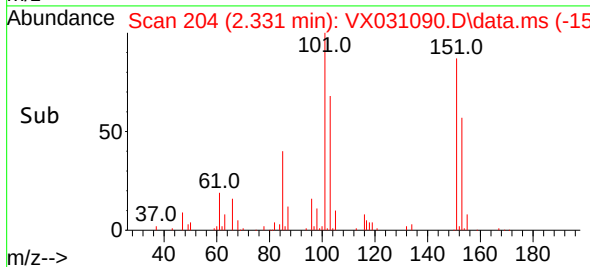
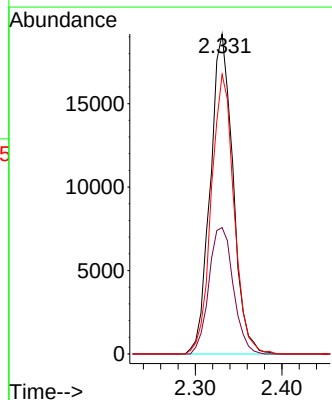
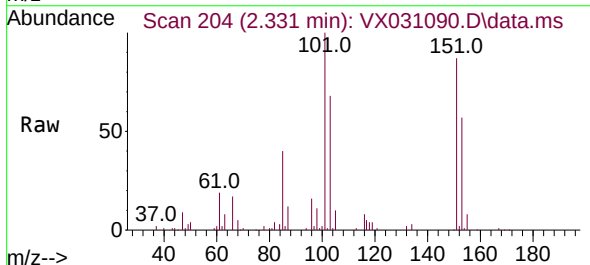
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

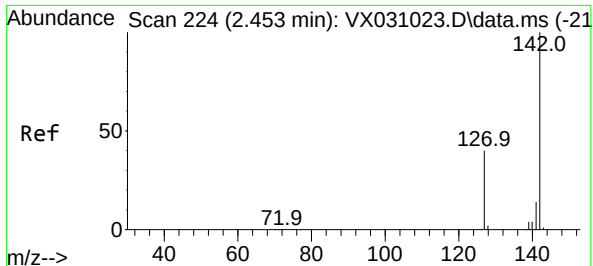
Tgt Ion: 64 Resp: 1129
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 13.447 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 101 Resp: 34929
Ion Ratio Lower Upper
101 100
85 42.3 34.0 51.0
151 87.1 59.4 89.0





#10

Methyl Iodide

Concen: 3.156 ug/l

RT: 2.459 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

RE137-20220823

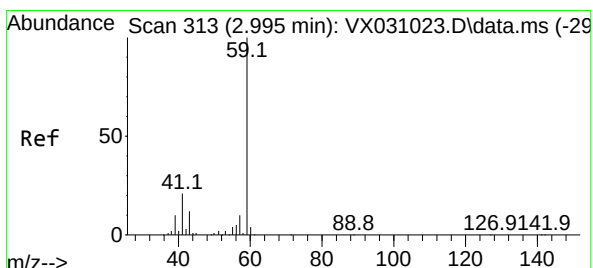
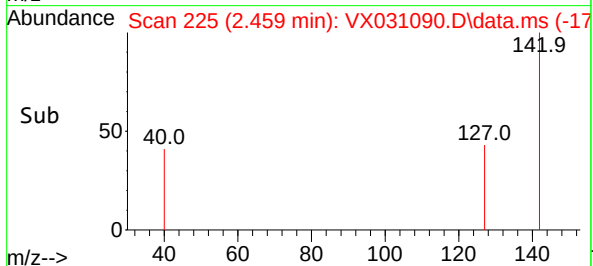
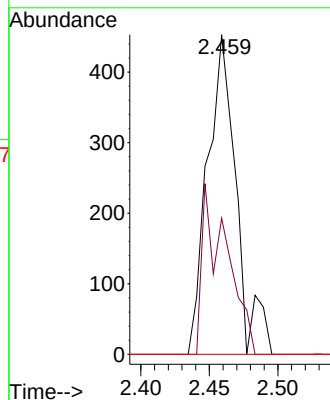
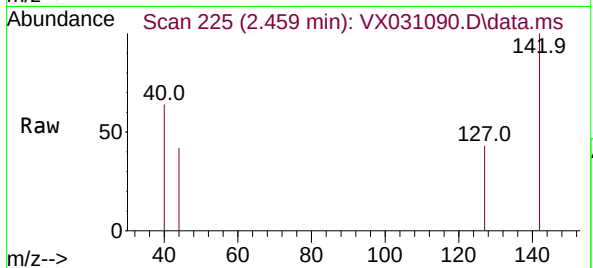
Tgt Ion:142 Resp: 661

Ion Ratio Lower Upper

142 100

127 45.7 30.2 45.2#

141 0.0 11.3 16.9#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.983 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX031090.D

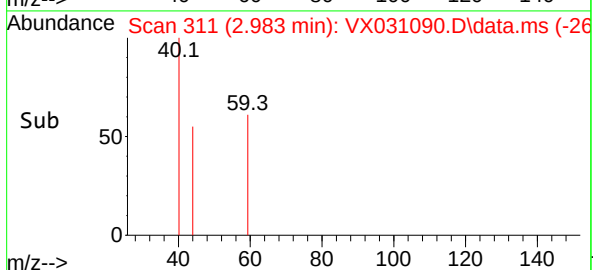
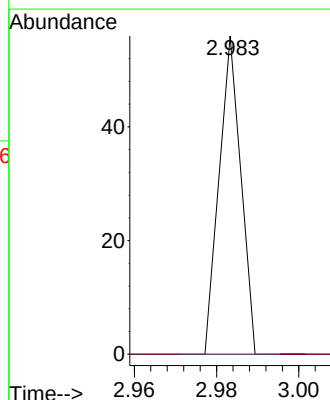
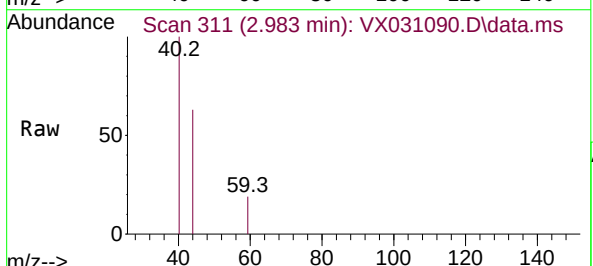
Acq: 03 Sep 2022 18:13

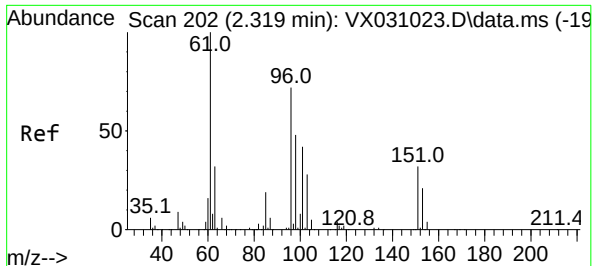
Tgt Ion: 59 Resp: 20

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#





#12

1,1-Dichloroethene

Concen: 3.118 ug/l

RT: 2.319 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

RE137-20220823

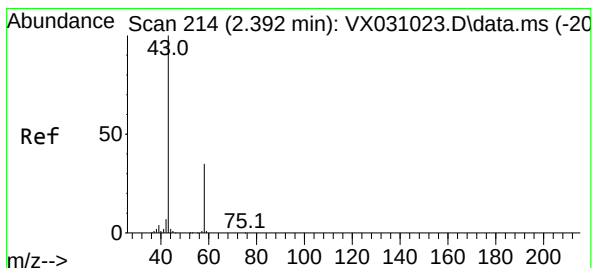
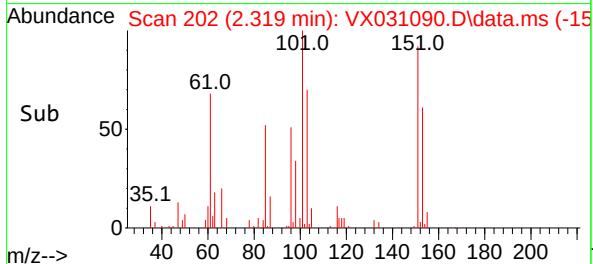
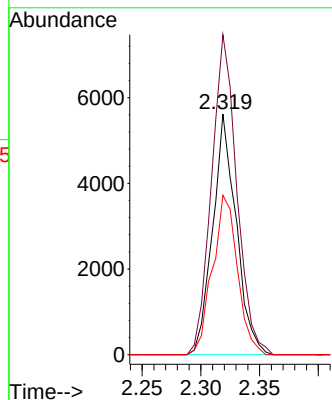
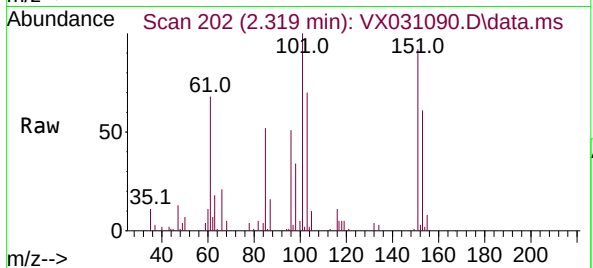
Tgt Ion: 96 Resp: 7822

Ion Ratio Lower Upper

96 100

61 133.0 117.4 176.0

98 66.2 52.2 78.4



#16

Acetone

Concen: 0.545 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.012 min

Lab File: VX031090.D

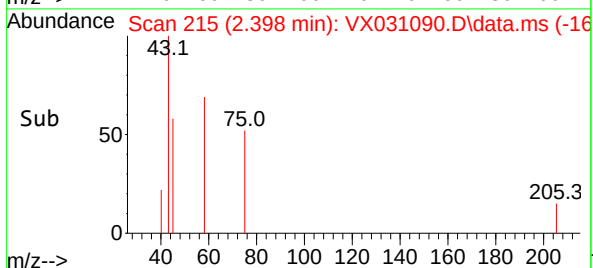
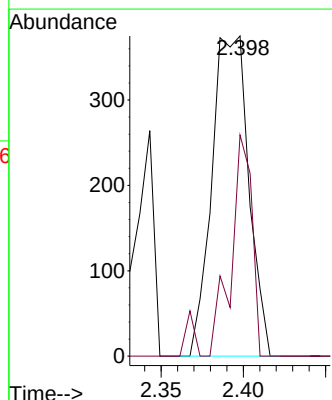
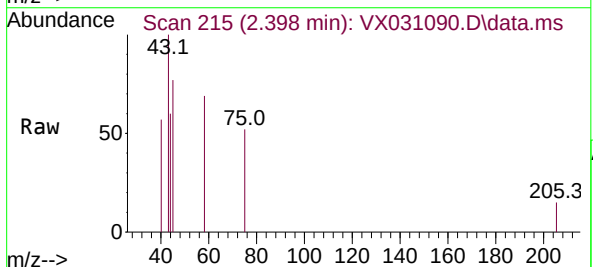
Acq: 03 Sep 2022 18:13

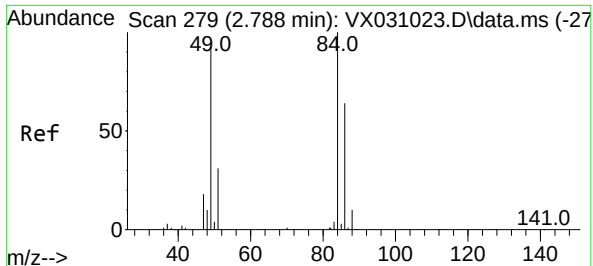
Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

58 69.1 27.7 41.5#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX031090.D

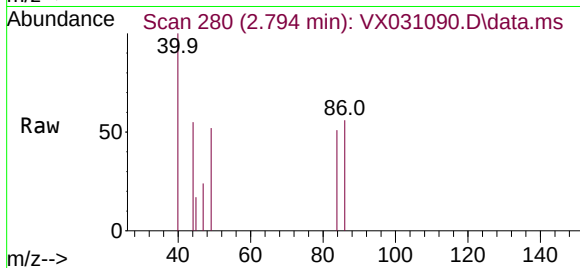
Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

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Tgt Ion: 84 Resp: 254

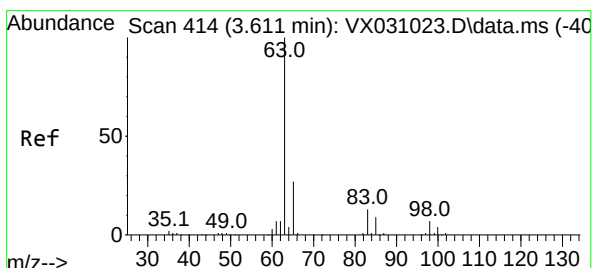
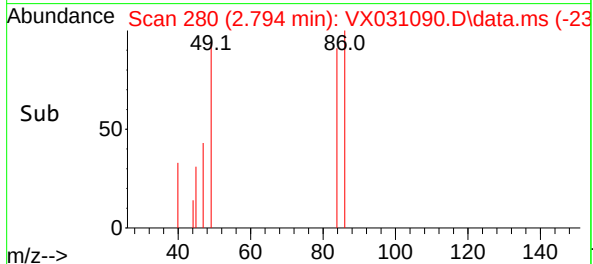
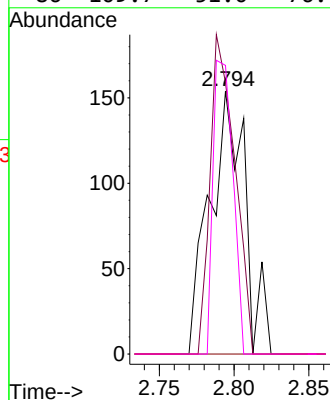
Ion Ratio Lower Upper

84 100

49 103.2 93.8 140.6

51 0.0 29.4 44.0#

86 109.7 51.0 76.4#



#24

1,1-Dichloroethane

Concen: 0.548 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.000 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

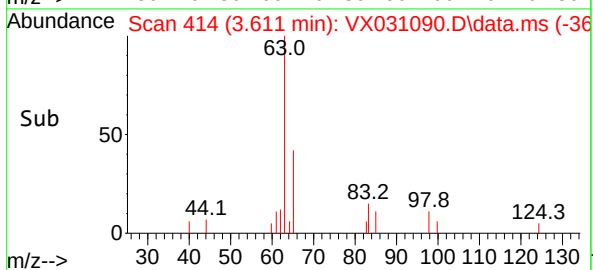
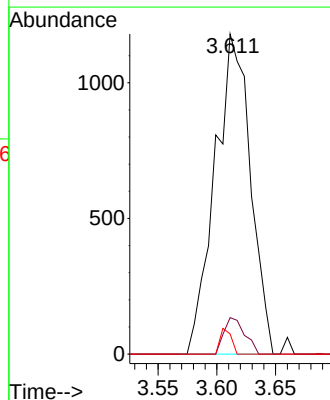
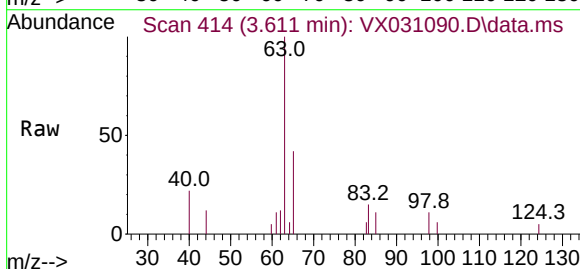
Tgt Ion: 63 Resp: 2480

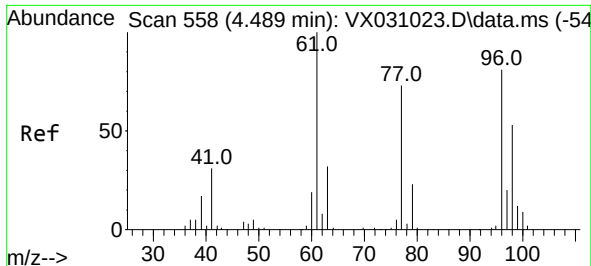
Ion Ratio Lower Upper

63 100

98 11.4 3.5 10.5#

100 6.3 2.3 6.9





#27

cis-1,2-Dichloroethene

Concen: 2.117 ug/l

RT: 4.501 min Scan# 5

Delta R.T. 0.012 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

RE137-20220823

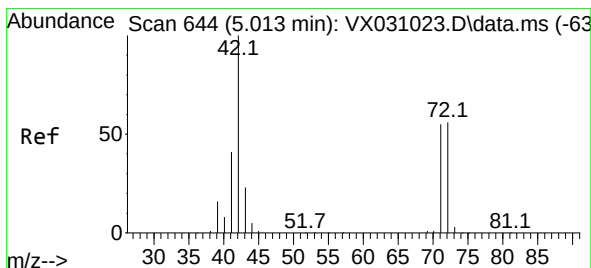
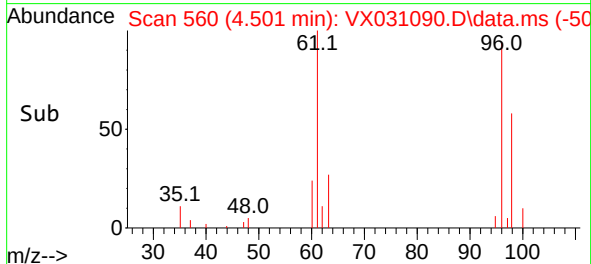
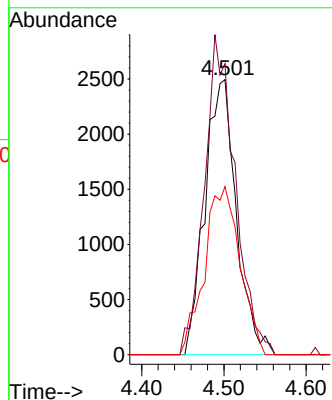
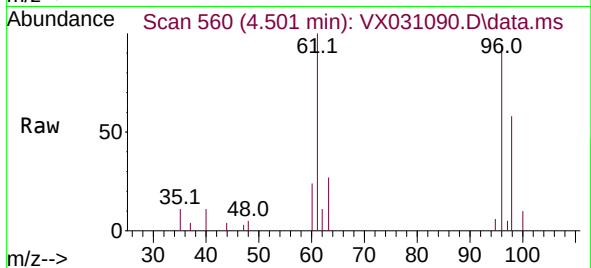
Tgt Ion: 96 Resp: 6624

Ion Ratio Lower Upper

96 100

61 113.5 0.0 270.0

98 69.1 0.0 127.8



#29

Tetrahydrofuran

Concen: 0.218 ug/l

RT: 5.026 min Scan# 646

Delta R.T. 0.013 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

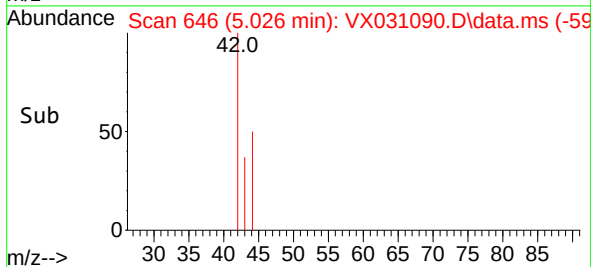
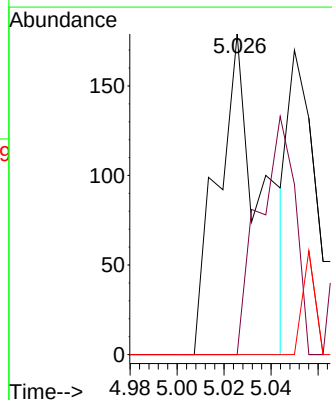
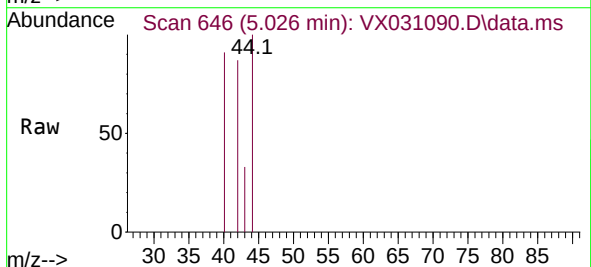
Tgt Ion: 42 Resp: 233

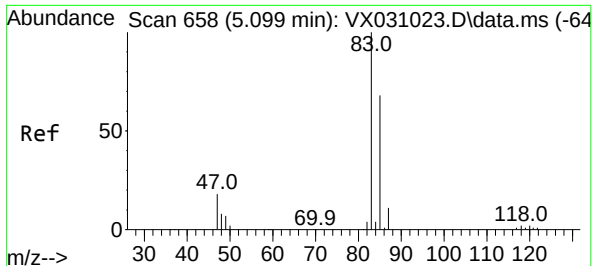
Ion Ratio Lower Upper

42 100

72 0.0 36.5 54.7#

71 0.0 33.9 50.9#





#30

Chloroform

Concen: 0.831 ug/l

RT: 5.093 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

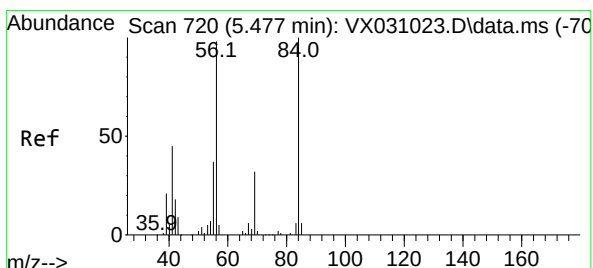
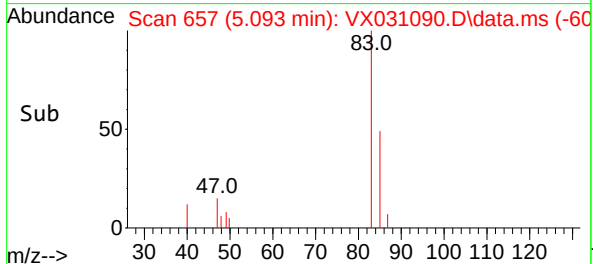
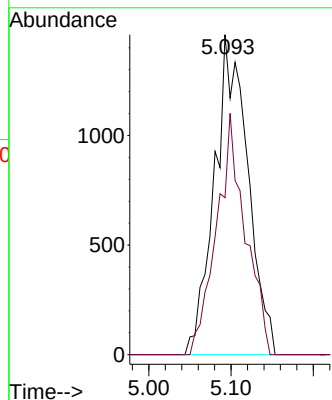
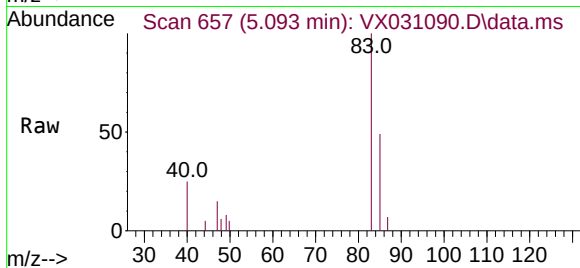
RE137-20220823

Tgt Ion: 83 Resp: 4121

Ion Ratio Lower Upper

83 100

85 49.0 51.5 77.3#



#31

Cyclohexane

Concen: 0.881 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.079 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

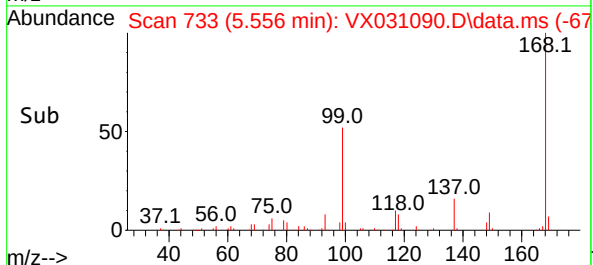
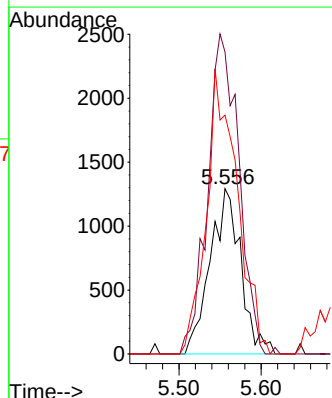
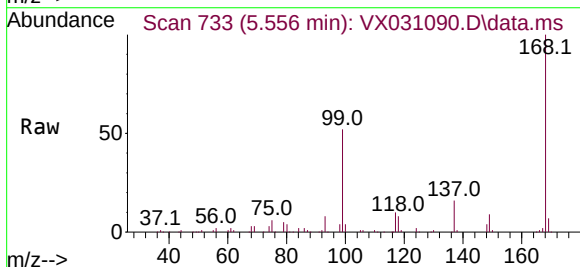
Tgt Ion: 56 Resp: 3345

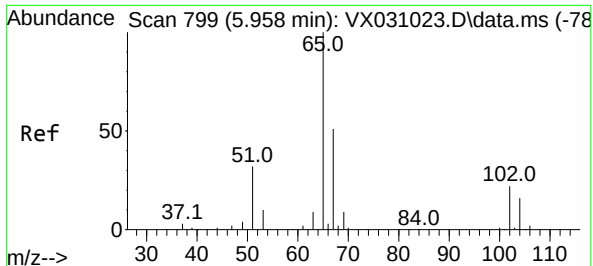
Ion Ratio Lower Upper

56 100

69 182.7 25.4 38.0#

84 144.5 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 48.412 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

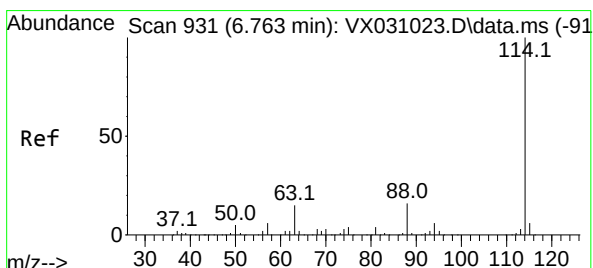
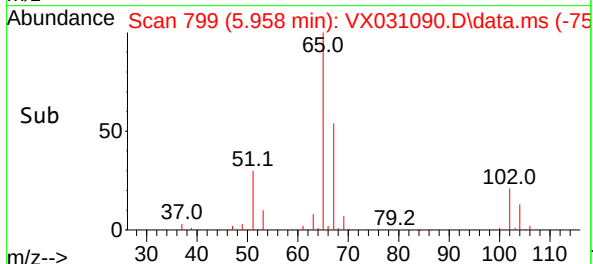
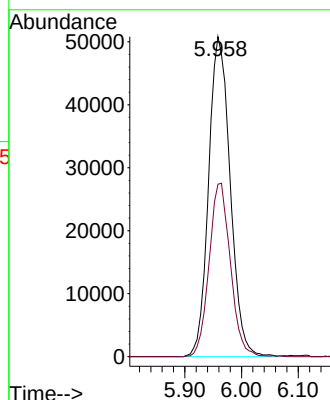
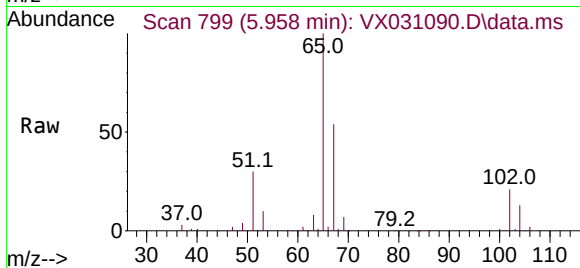
RE137-20220823

Tgt Ion: 65 Resp: 134497

Ion Ratio Lower Upper

65 100

67 53.5 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

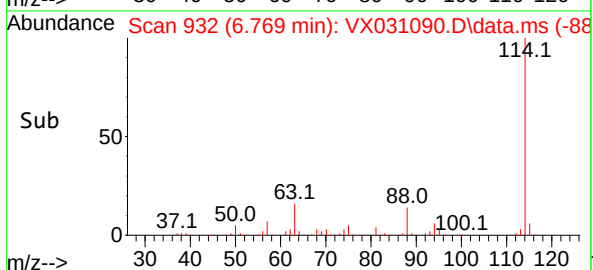
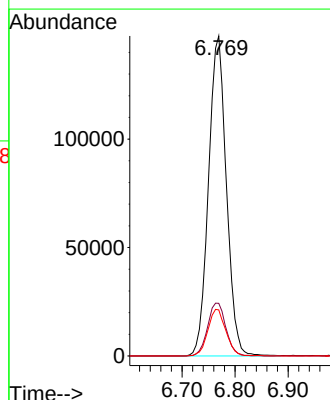
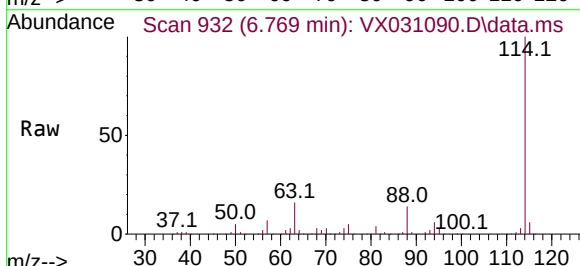
Tgt Ion: 114 Resp: 345141

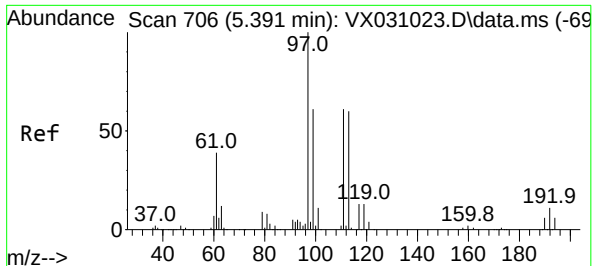
Ion Ratio Lower Upper

114 100

63 16.5 0.0 38.4

88 14.4 0.0 31.8

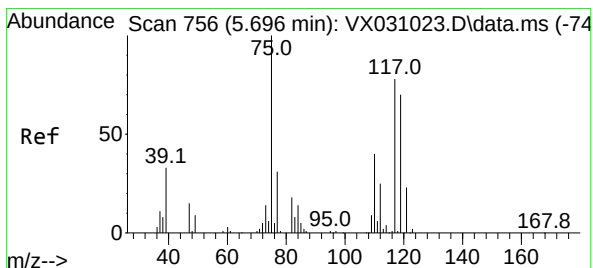
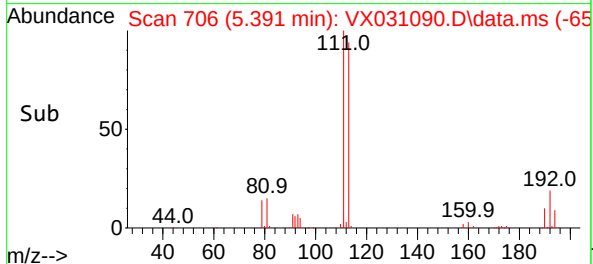
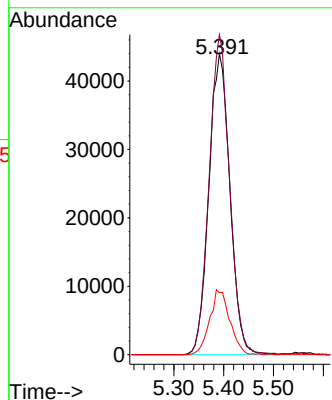
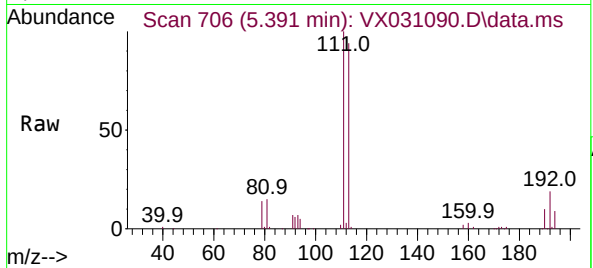




#35
Dibromofluoromethane
Concen: 51.306 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

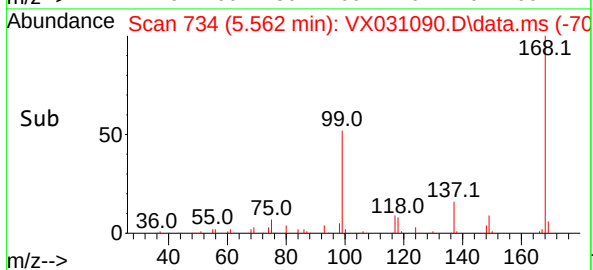
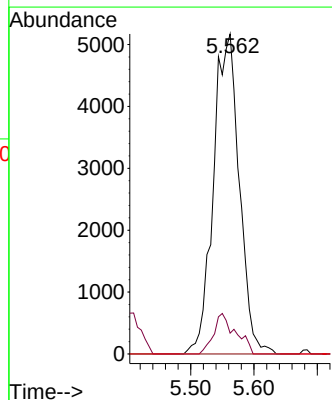
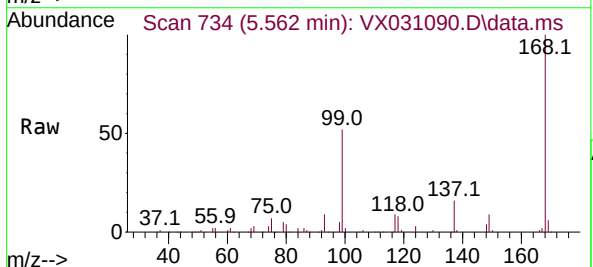
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

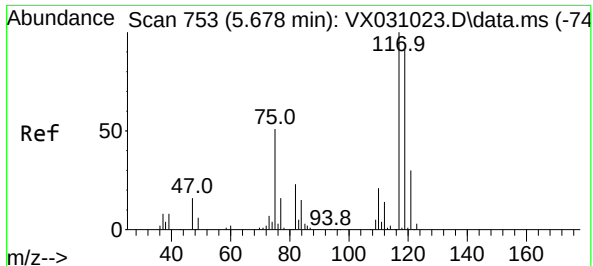
Tgt Ion:113 Resp: 129225
Ion Ratio Lower Upper
113 100
111 103.1 83.2 124.8
192 20.6 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.160 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.134 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 75 Resp: 14675
Ion Ratio Lower Upper
75 100
110 10.7 19.3 57.9#
77 0.0 24.4 36.6#

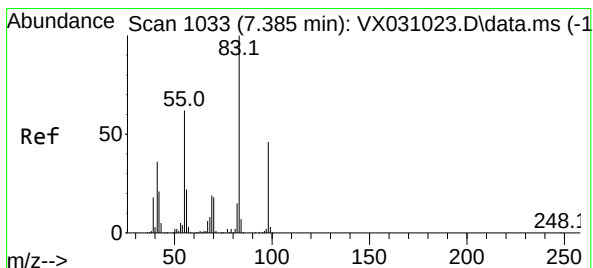
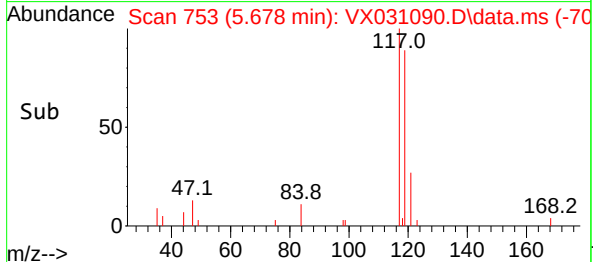
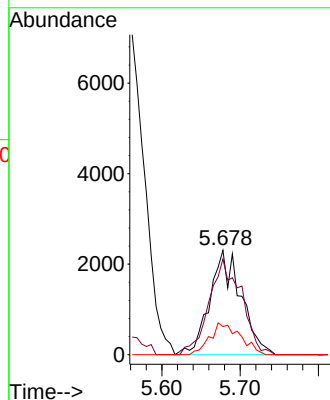
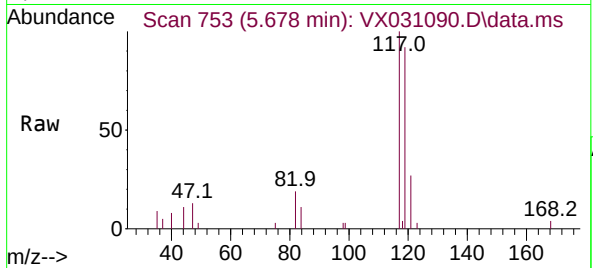




#38
Carbon Tetrachloride
Concen: 1.743 ug/l
RT: 5.678 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

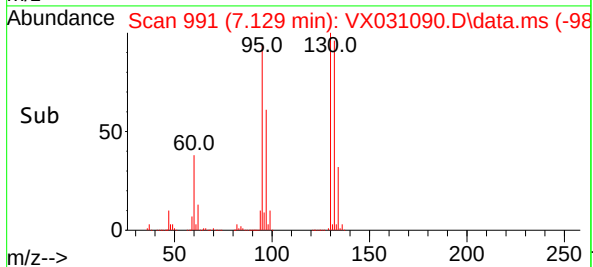
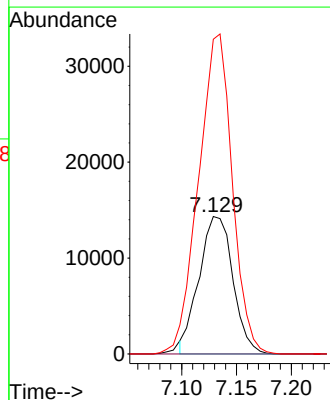
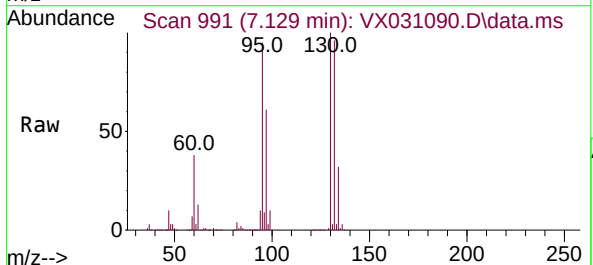
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

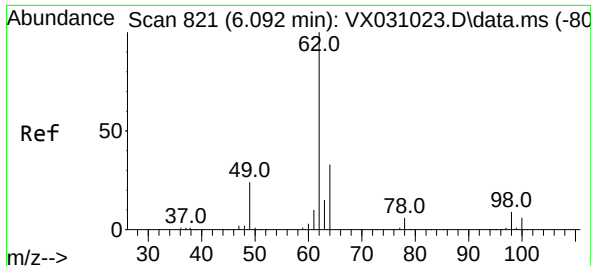
Tgt Ion:117 Resp: 6383
Ion Ratio Lower Upper
117 100
119 91.7 74.1 111.1
121 27.0 25.8 38.8



#39
Methylcyclohexane
Concen: 7.027 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.256 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 83 Resp: 30724
Ion Ratio Lower Upper
83 100
55 0.0 57.7 86.5#
98 229.1 36.5 54.7#





#42

1,2-Dichloroethane

Concen: 0.209 ug/l

RT: 6.099 min Scan# 81

Delta R.T. 0.007 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

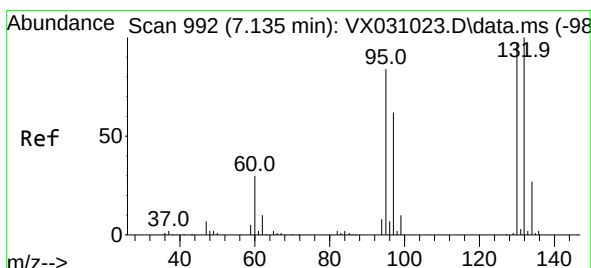
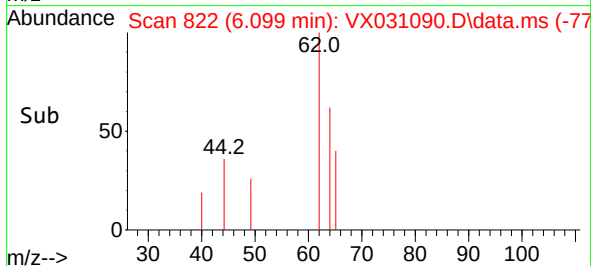
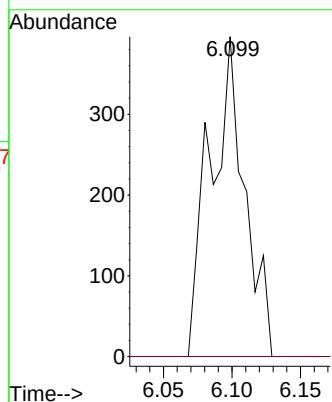
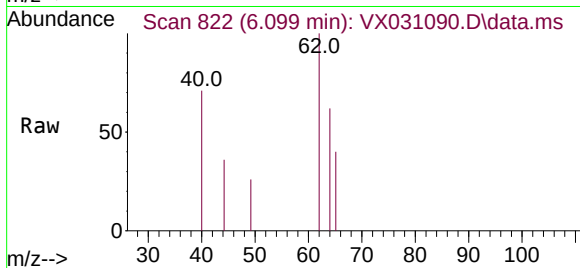
RE137-20220823

Tgt Ion: 62 Resp: 697

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#44

Trichloroethene

Concen: 903.418 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.006 min

Lab File: VX031090.D

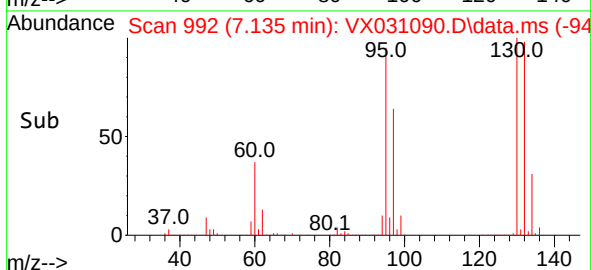
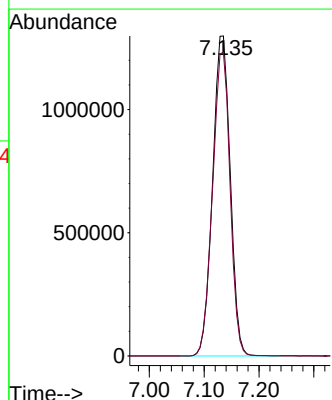
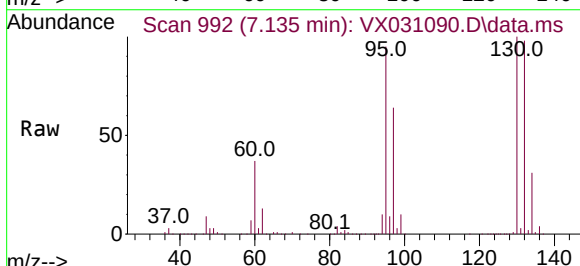
Acq: 03 Sep 2022 18:13

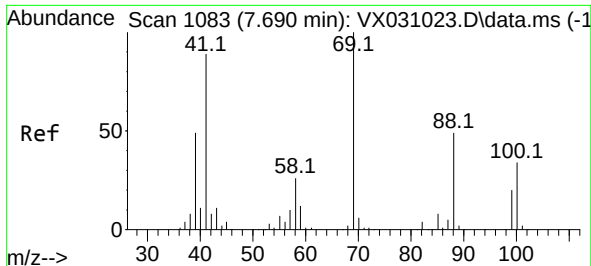
Tgt Ion:130 Resp: 2896361

Ion Ratio Lower Upper

130 100

95 94.9 0.0 194.8





#49

1,4-Dioxane

Concen: 9.706 ug/l

RT: 7.696 min Scan# 1083

Delta R.T. 0.019 min

Lab File: VX031090.D

Acq: 03 Sep 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

RE137-20220823

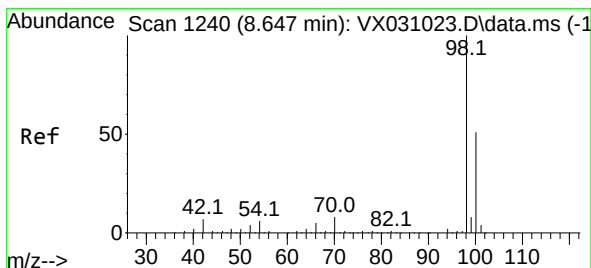
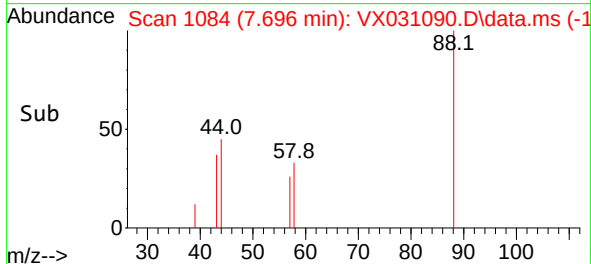
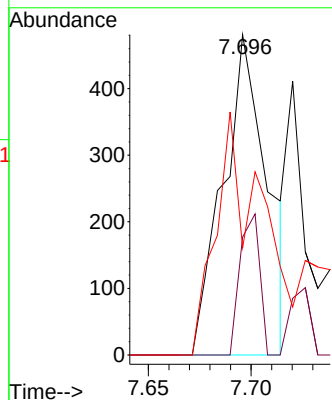
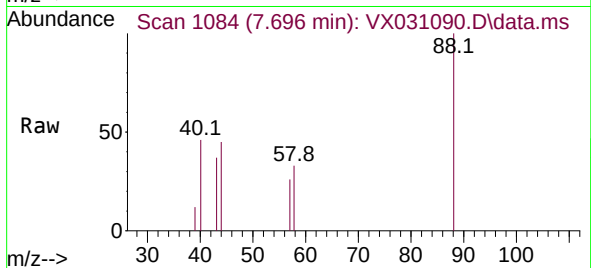
Tgt Ion: 88 Resp: 714

Ion Ratio Lower Upper

88 100

43 19.9 23.8 35.8#

58 79.0 53.8 80.6



#50

Toluene-d8

Concen: 51.007 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX031090.D

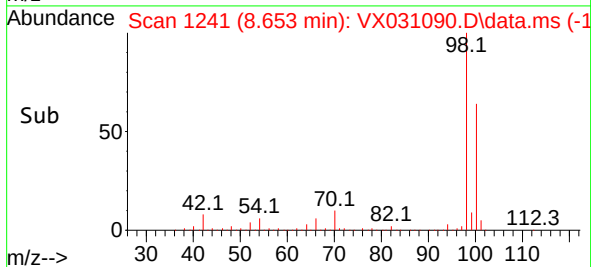
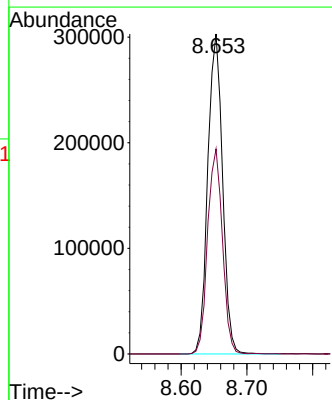
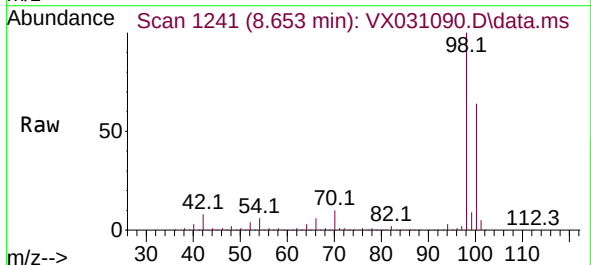
Acq: 03 Sep 2022 18:13

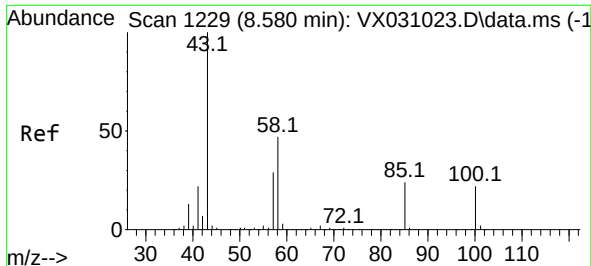
Tgt Ion: 98 Resp: 472827

Ion Ratio Lower Upper

98 100

100 64.3 52.3 78.5

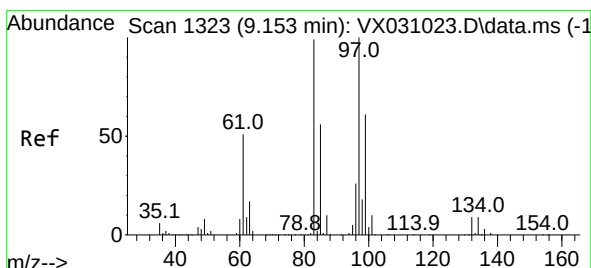
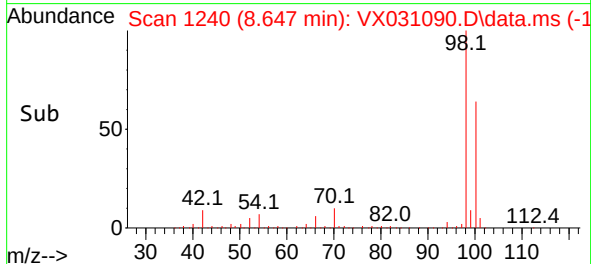
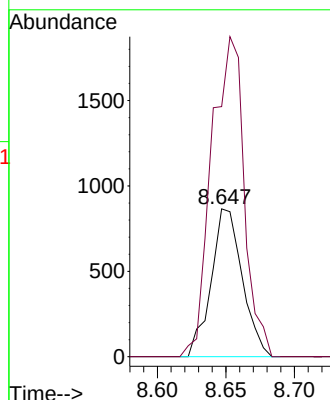
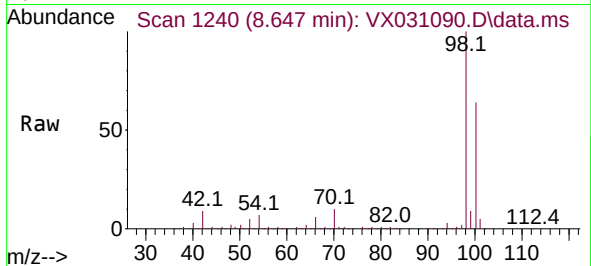




#51
4-Methyl-2-Pentanone
Concen: 0.444 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.067 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

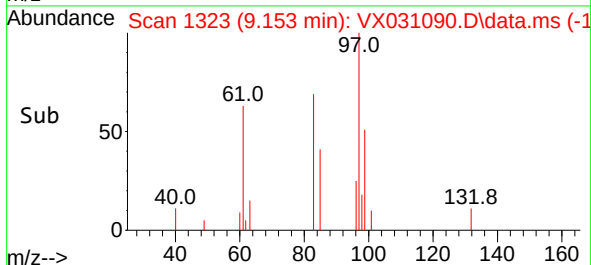
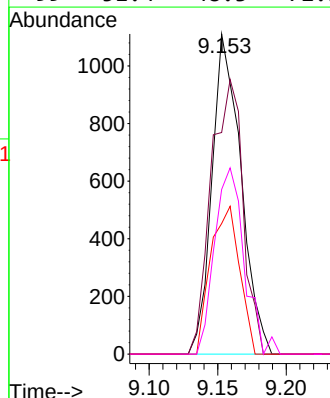
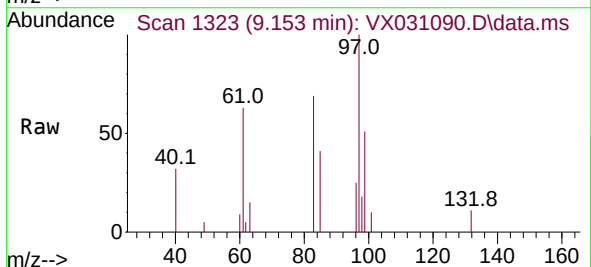
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

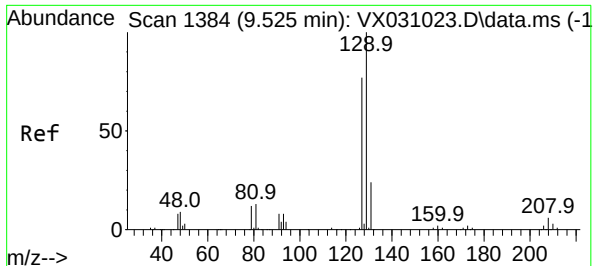
Tgt Ion: 43 Resp: 1366
Ion Ratio Lower Upper
43 100
58 226.9 31.4 47.2#



#55
1,1,2-Trichloroethane
Concen: 0.585 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 97 Resp: 1635
Ion Ratio Lower Upper
97 100
83 69.2 68.9 103.3
85 40.8 44.0 66.0#
99 51.4 48.3 72.5

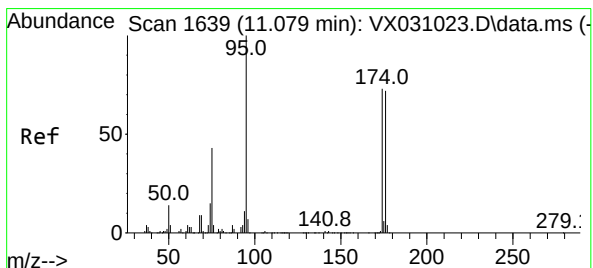
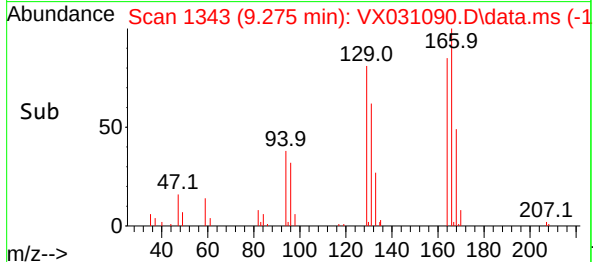
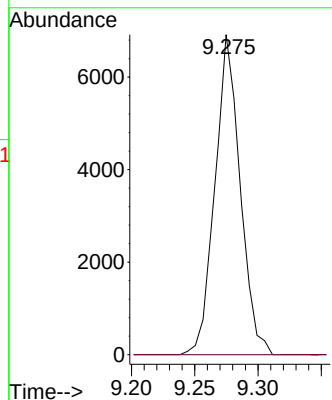
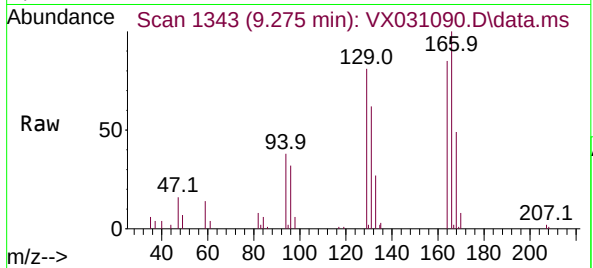




#60
Dibromochloromethane
Concen: 3.297 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

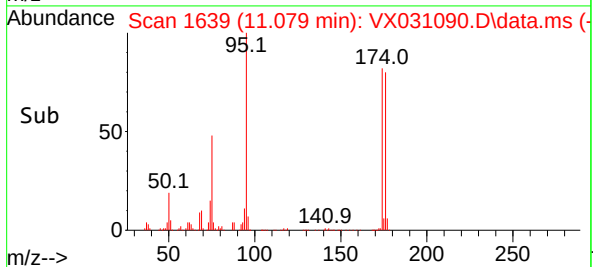
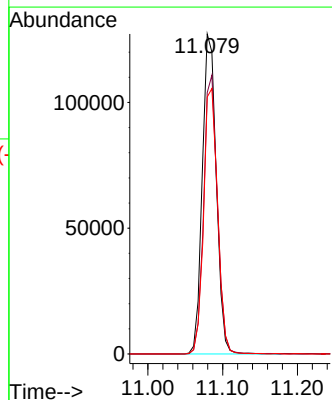
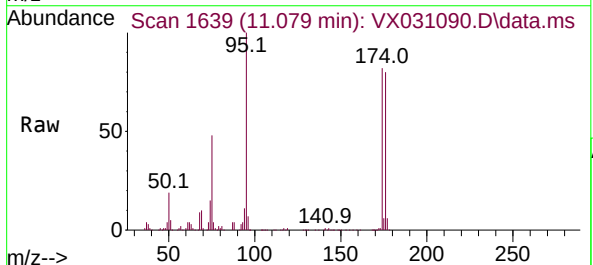
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

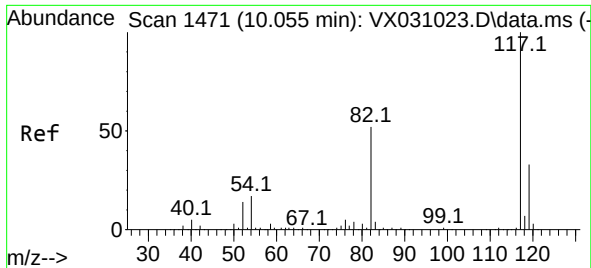
Tgt Ion:129 Resp: 9561
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 50.495 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 95 Resp: 165323
Ion Ratio Lower Upper
95 100
174 85.3 0.0 149.0
176 83.3 0.0 146.0

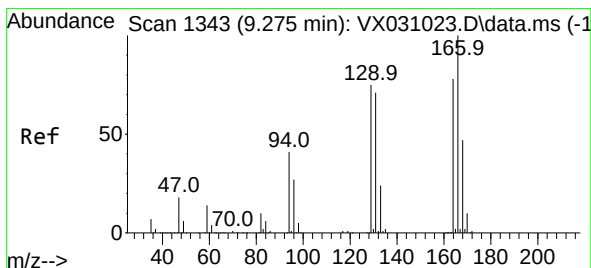
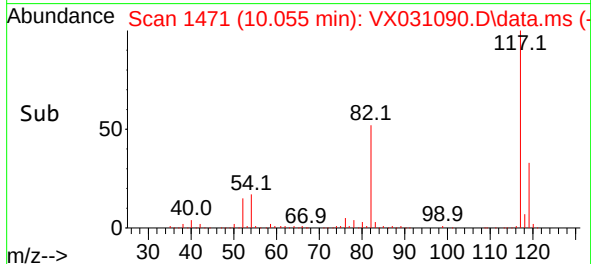
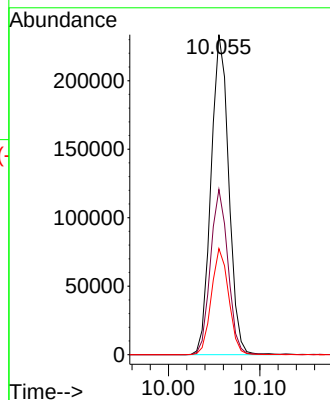
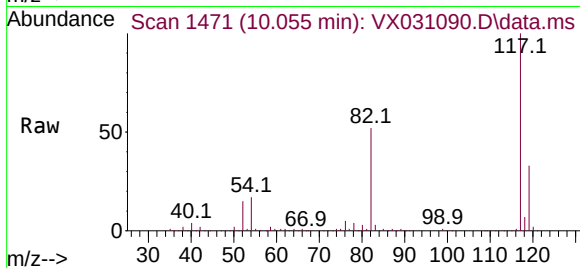




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

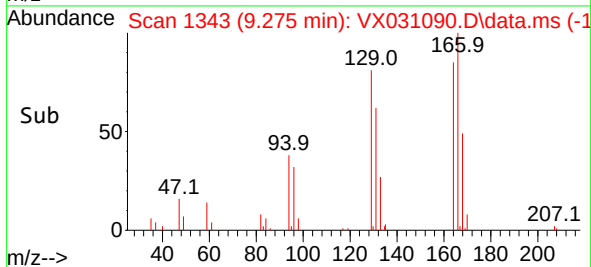
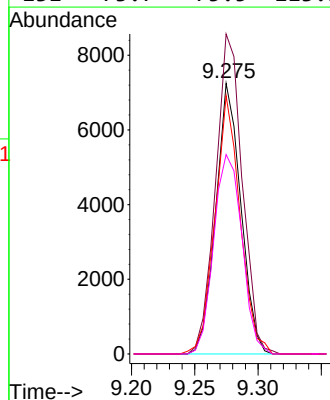
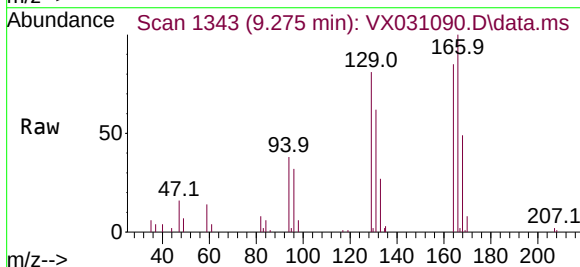
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

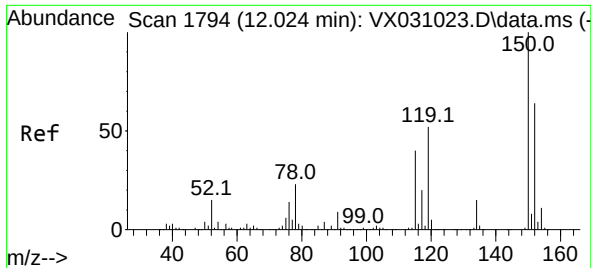
Tgt Ion:117 Resp: 313964
Ion Ratio Lower Upper
117 100
82 51.7 42.7 64.1
119 33.2 25.4 38.2



#64
Tetrachloroethene
Concen: 3.176 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion:164 Resp: 9957
Ion Ratio Lower Upper
164 100
166 118.2 98.2 147.4
129 95.4 80.8 121.2
131 73.7 75.5 113.3#

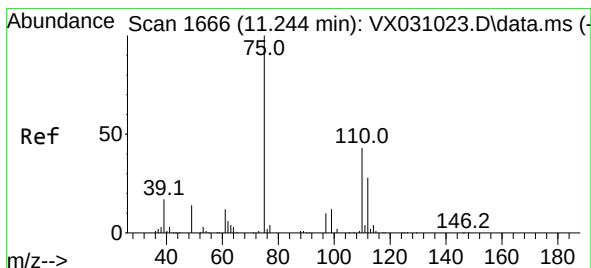
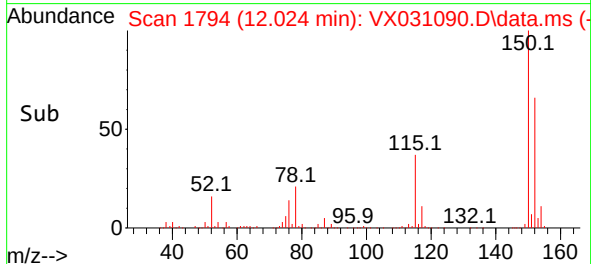
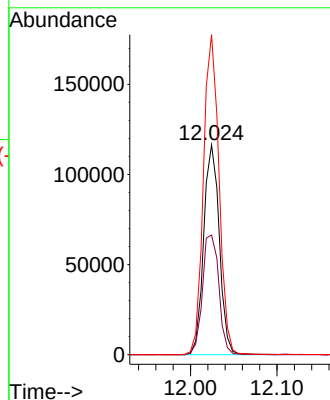
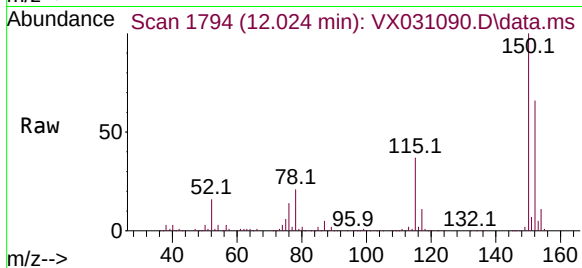




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

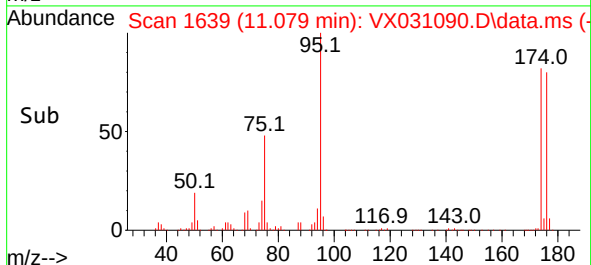
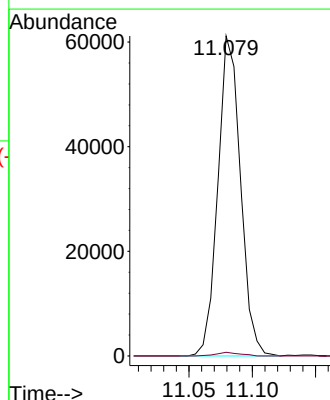
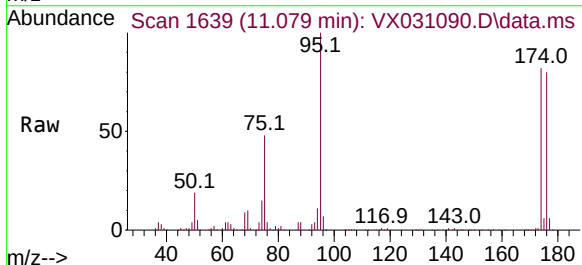
Instrument :
MSVOA_X
ClientSampleId :
RE137-20220823

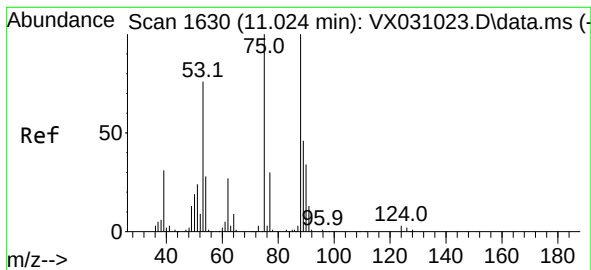
Tgt Ion:152 Resp: 145605
Ion Ratio Lower Upper
152 100
115 60.0 40.5 121.5
150 152.1 0.0 347.0



#76
1,2,3-Trichloropropane
Concen: 22.044 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX031090.D
Acq: 03 Sep 2022 18:13

Tgt Ion: 75 Resp: 75875
Ion Ratio Lower Upper
75 100
77 1.2 19.8 59.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.279 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.055 min
 Lab File: VX031090.D
 Acq: 03 Sep 2022 18:13

Instrument :
 MSVOA_X
 ClientSampleId :
 RE137-20220823

Tgt Ion: 75 Resp: 75875
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.0 34.8 52.2#

