

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033122\
 Data File : VX027855.D
 Acq On : 31 Mar 2022 18:04
 Operator : JC/MD
 Sample : N2074-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20220319

Quant Time: Apr 01 04:10:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032922W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 04:39:27 2022
 Response via : Initial Calibration

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

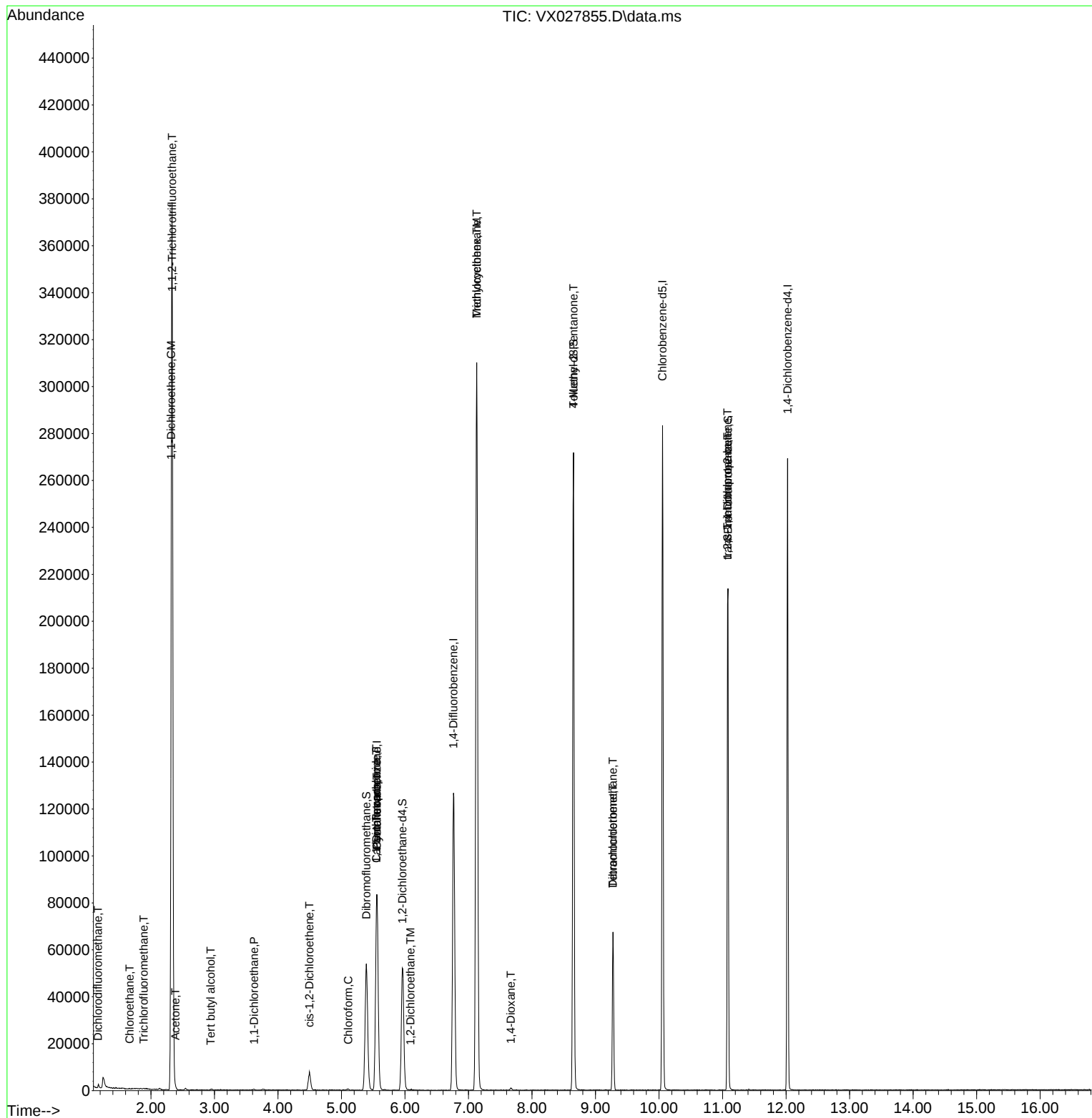
Internal Standards						
1) Pentafluorobenzene	5.556	168	77421	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	131906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	117367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	48500	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	52484	52.540	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.080%	
35) Dibromofluoromethane	5.391	113	45807	53.801	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 107.600%	
50) Toluene-d8	8.653	98	154814	51.679	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 103.360%	
62) 4-Bromofluorobenzene	11.085	95	58423	45.892	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 91.780%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	303	0.432	ug/l	# 69
6) Chloroethane	1.666	64	243	0.567	ug/l	# 43
7) Trichlorofluoromethane	1.886	101	240	0.215	ug/l	# 19
9) 1,1,2-Trichlorotrifluo...	2.331	101	146184	201.648	ug/l	93
11) Tert butyl alcohol	2.940	59	198	1.032	ug/l	# 72
12) 1,1-Dichloroethene	2.319	96	1624	2.442	ug/l	83
16) Acetone	2.386	43	465	1.052	ug/l	93
24) 1,1-Dichloroethane	3.623	63	556	0.404	ug/l	# 81
27) cis-1,2-Dichloroethene	4.495	96	4293	4.931	ug/l	97
30) Chloroform	5.105	83	570	0.372	ug/l	88
31) Cyclohexane	5.556	56	1589	1.439	ug/l	# 1
36) 1,1-Dichloropropene	5.550	75	6318	5.892	ug/l	# 48
38) Carbon Tetrachloride	5.550	117	8254	6.967	ug/l	# 16
39) Methylcyclohexane	7.129	83	1339	1.061	ug/l	# 1
42) 1,2-Dichloroethane	6.086	62	383	0.295	ug/l	# 73
44) Trichloroethene	7.129	130	118109	133.734	ug/l	92
49) 1,4-Dioxane	7.665	88	644	29.214	ug/l	96
51) 4-Methyl-2-Pentanone	8.653	43	735	0.498	ug/l	# 1
60) Dibromochloromethane	9.275	129	11786	12.520	ug/l	# 9
64) Tetrachloroethene	9.275	164	11397	14.322	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	33568	29.504	ug/l	# 38
81) trans-1,4-Dichloro-2-b...	11.079	75	33568	85.998	ug/l	# 15

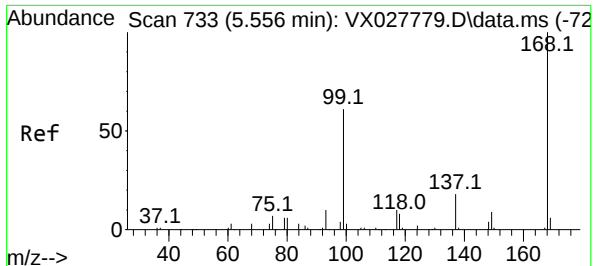
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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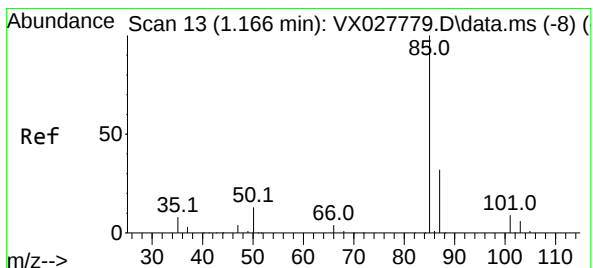
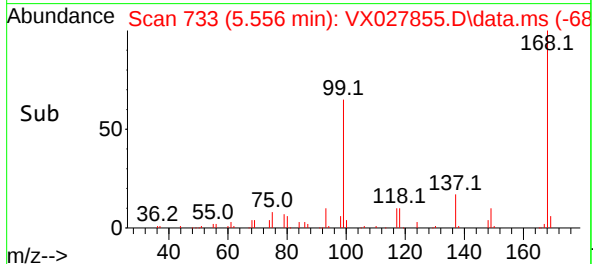
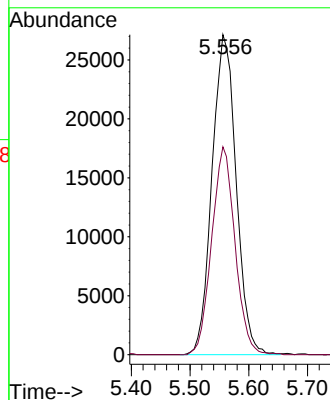
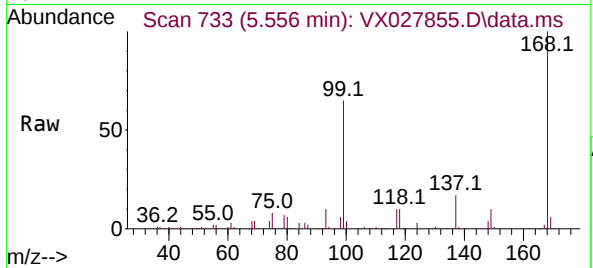




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

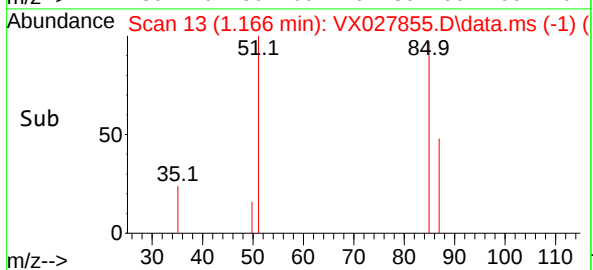
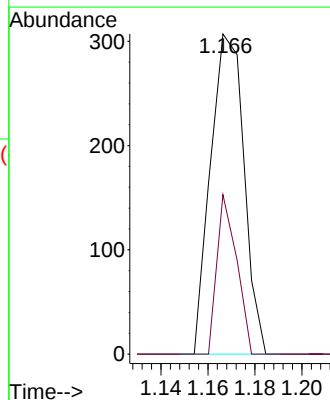
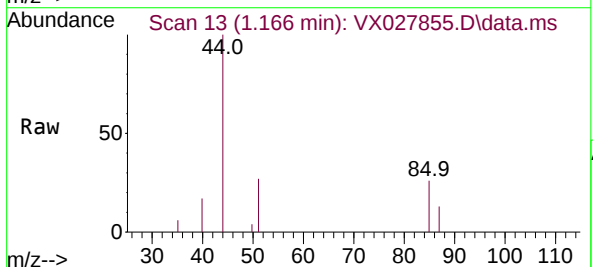
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

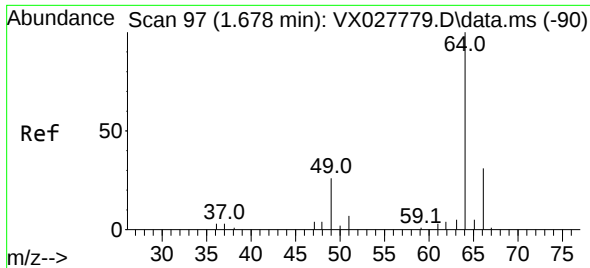
Tgt Ion:168 Resp: 77421
Ion Ratio Lower Upper
168 100
99 65.0 41.7 62.5#



#2
Dichlorodifluoromethane
Concen: 0.432 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 85 Resp: 303
Ion Ratio Lower Upper
85 100
87 49.8 16.2 48.6#

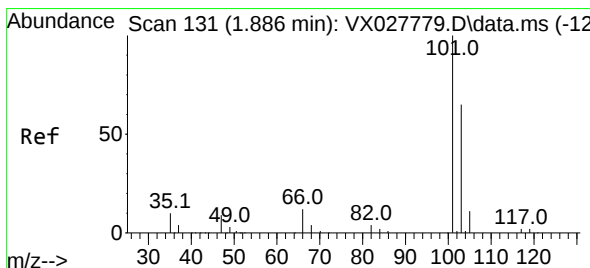
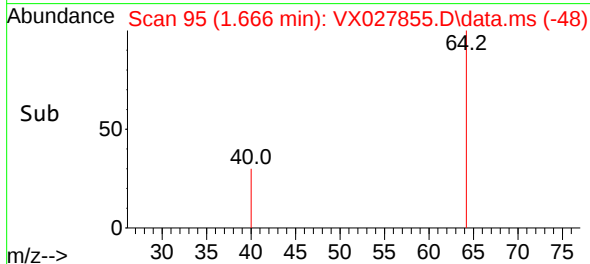
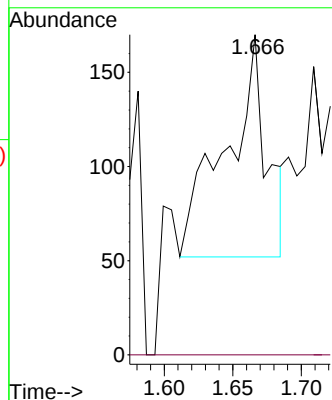
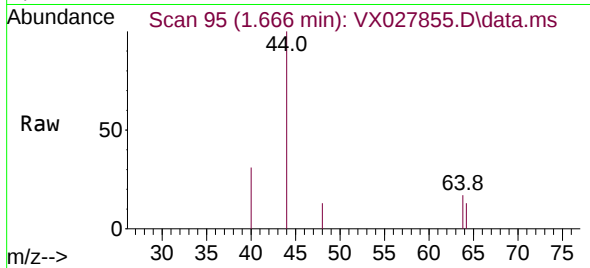




#6
Chloroethane
Concen: 0.567 ug/l
RT: 1.666 min Scan# 91
Delta R.T. -0.012 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

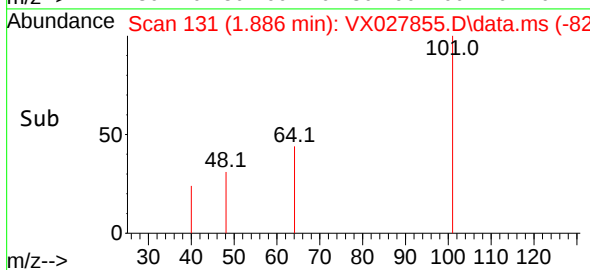
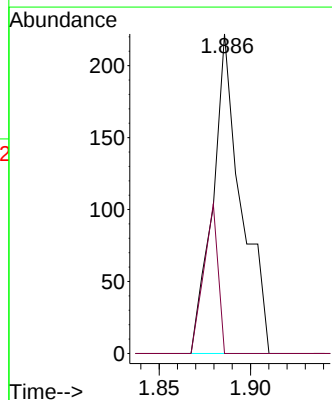
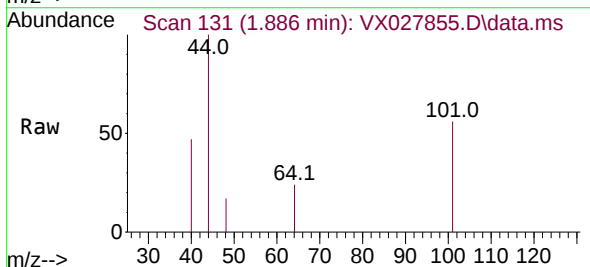
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

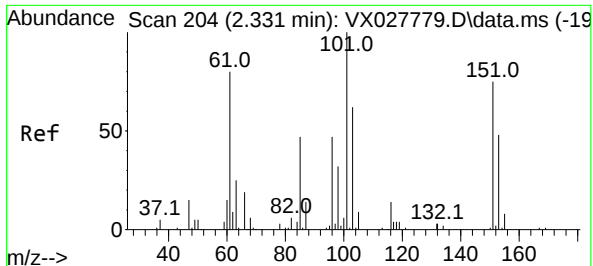
Tgt Ion: 64 Resp: 243
Ion Ratio Lower Upper
64 100
66 0.0 25.3 37.9#



#7
Trichlorofluoromethane
Concen: 0.215 ug/l
RT: 1.886 min Scan# 131
Delta R.T. -0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 101 Resp: 240
Ion Ratio Lower Upper
101 100
103 0.0 50.5 75.7#

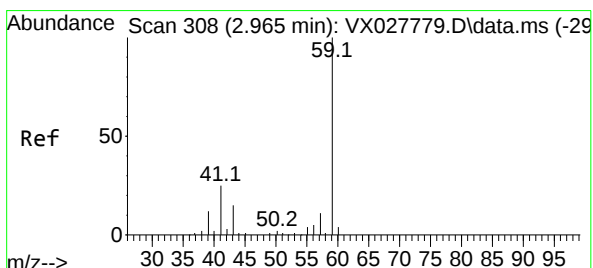
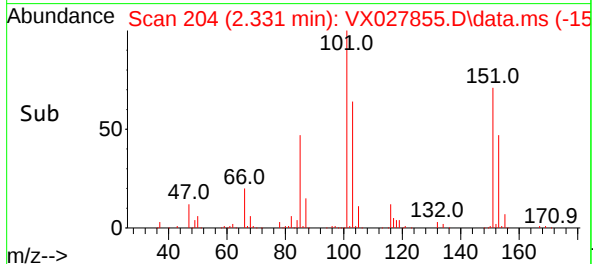
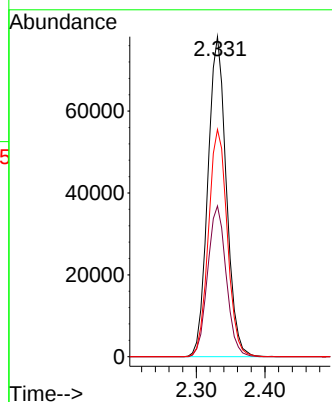
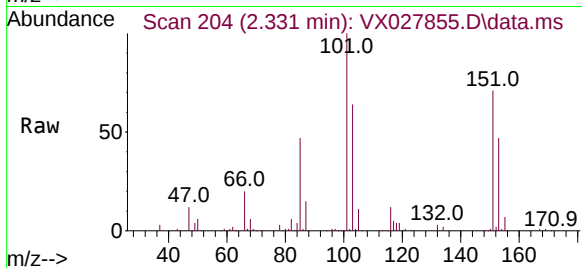




#9
1,1,2-Trichlorotrifluoroethane
Concen: 201.648 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

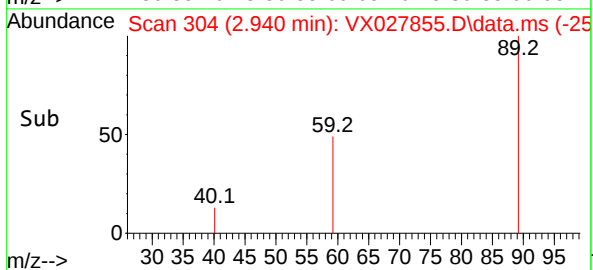
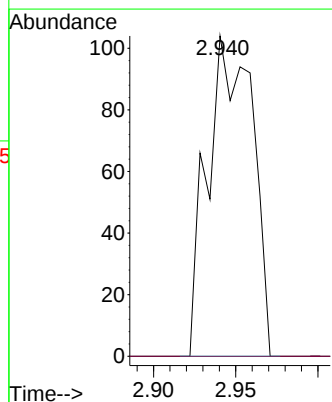
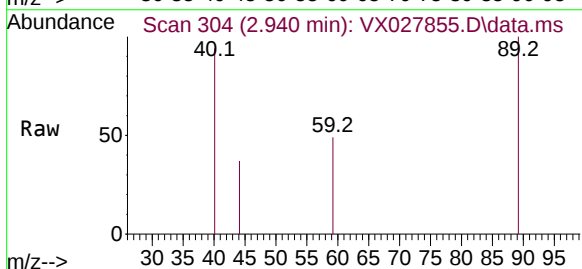
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

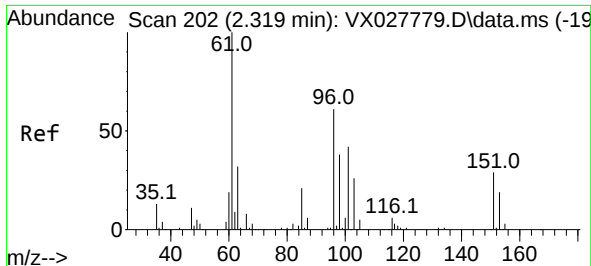
Tgt Ion:101 Resp: 146184
Ion Ratio Lower Upper
101 100
85 47.4 33.5 50.3
151 72.3 61.8 92.6



#11
Tert butyl alcohol
Concen: 1.032 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.025 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 59 Resp: 198
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 2.442 ug/l

RT: 2.319 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20220319

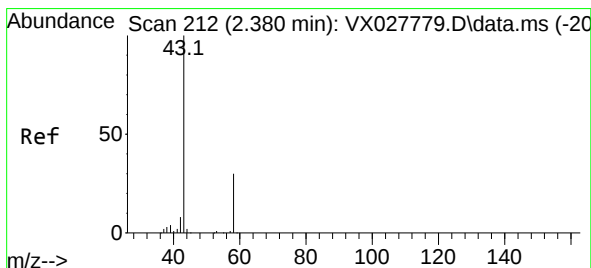
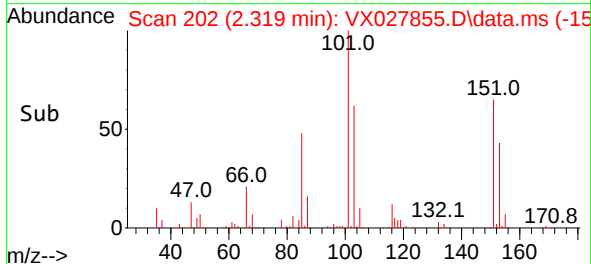
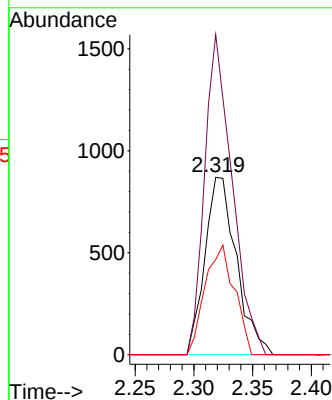
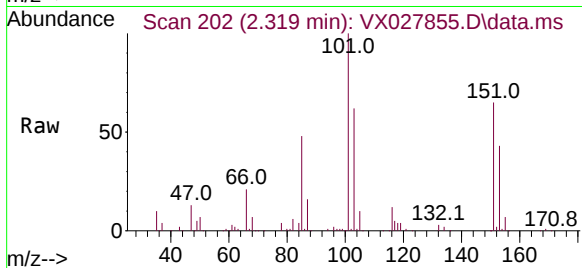
Tgt Ion: 96 Resp: 1624

Ion Ratio Lower Upper

96 100

61 180.5 124.6 187.0

98 53.7 51.0 76.4



#16

Acetone

Concen: 1.052 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX027855.D

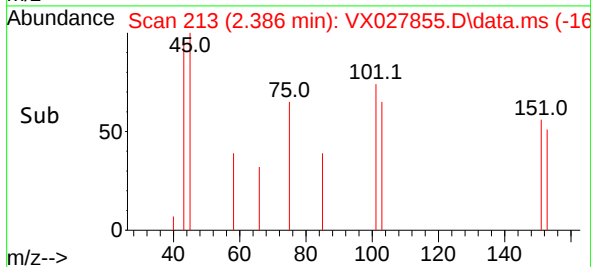
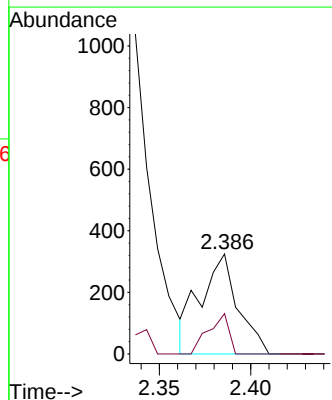
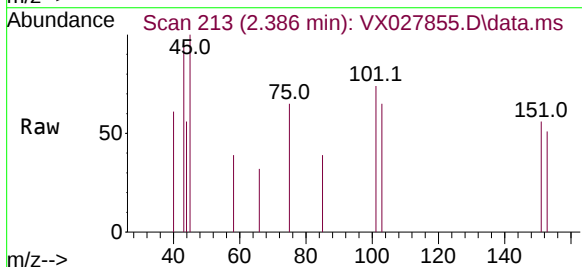
Acq: 31 Mar 2022 18:04

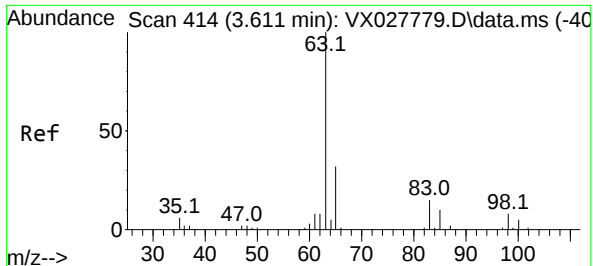
Tgt Ion: 43 Resp: 465

Ion Ratio Lower Upper

43 100

58 40.3 28.8 43.2





#24

1,1-Dichloroethane

Concen: 0.404 ug/l

RT: 3.623 min Scan# 41

Delta R.T. 0.012 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

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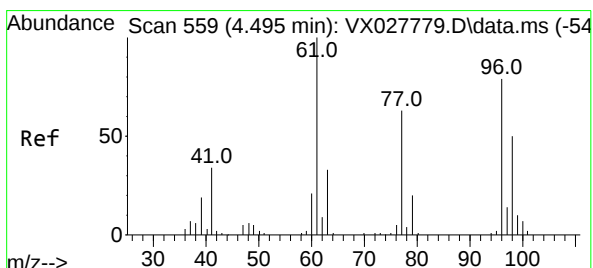
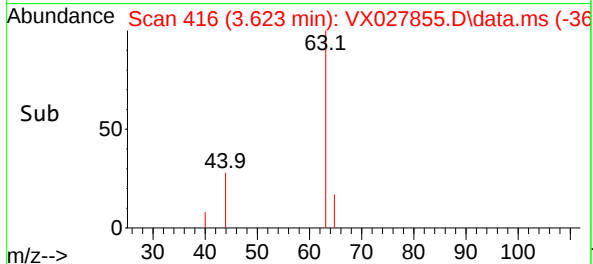
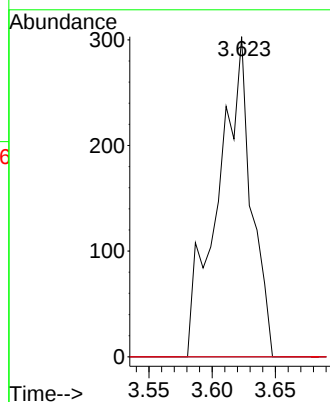
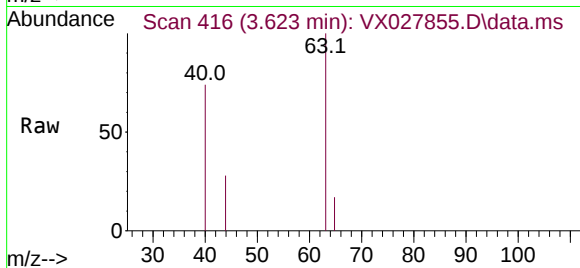
Tgt Ion: 63 Resp: 556

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

100 0.0 2.4 7.2#



#27

cis-1,2-Dichloroethene

Concen: 4.931 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

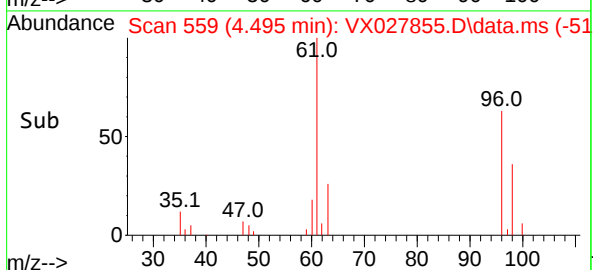
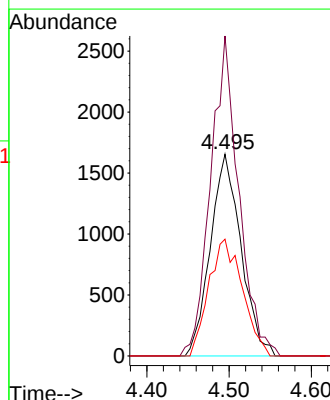
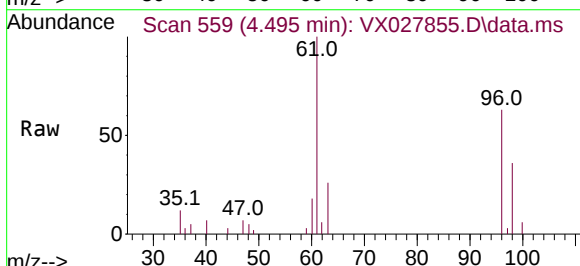
Tgt Ion: 96 Resp: 4293

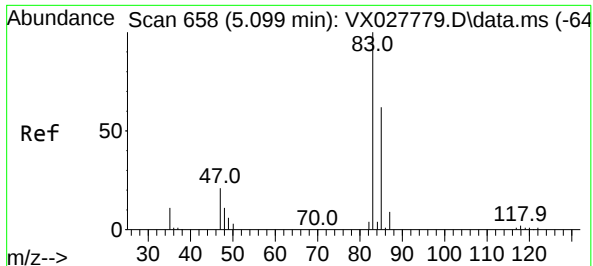
Ion Ratio Lower Upper

96 100

61 145.8 0.0 283.8

98 63.6 0.0 129.8





#30

Chloroform

Concen: 0.372 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

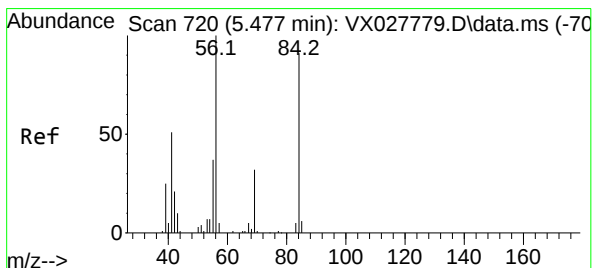
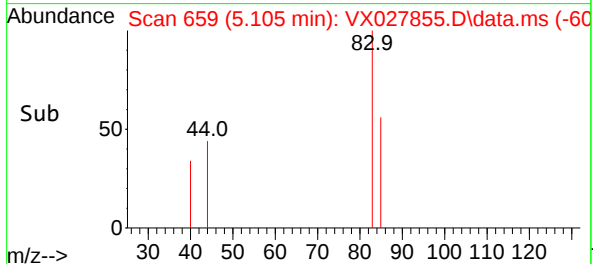
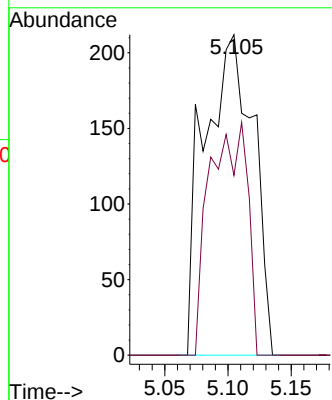
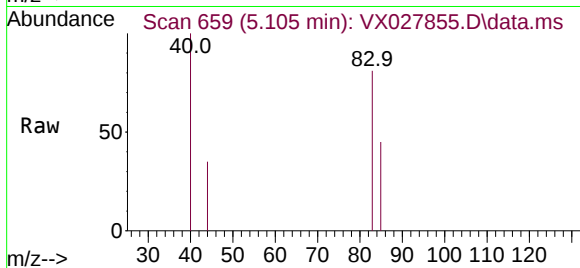
RE131D2-20220319

Tgt Ion: 83 Resp: 570

Ion Ratio Lower Upper

83 100

85 56.1 52.7 79.1



#31

Cyclohexane

Concen: 1.439 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.079 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

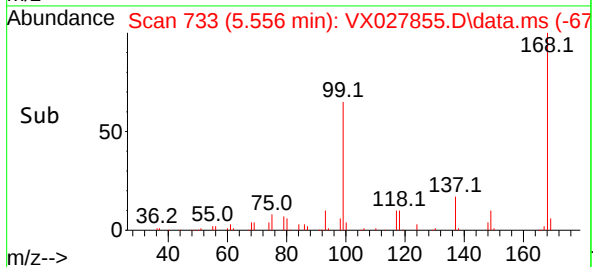
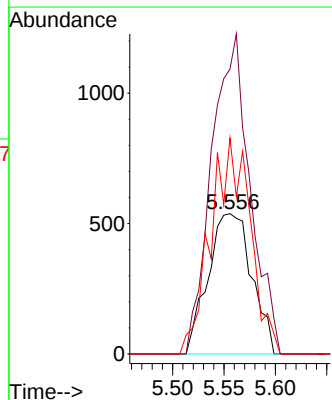
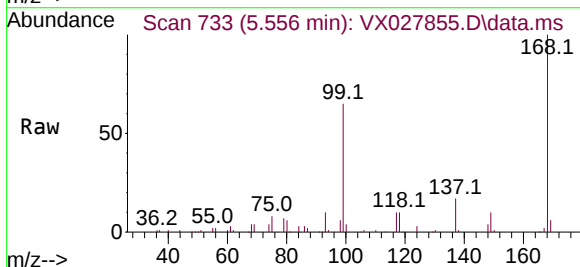
Tgt Ion: 56 Resp: 1589

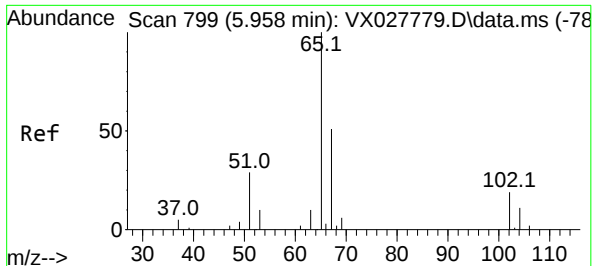
Ion Ratio Lower Upper

56 100

69 203.0 26.7 40.1#

84 153.9 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 52.540 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

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MSVOA_X

ClientSampleId :

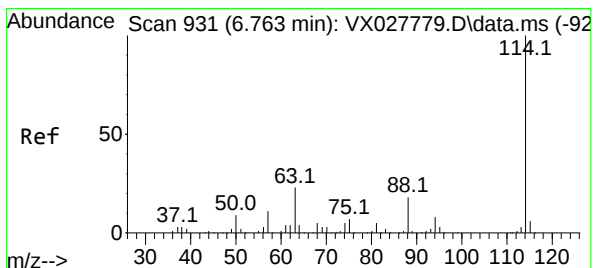
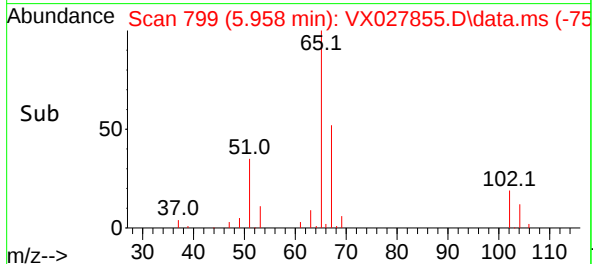
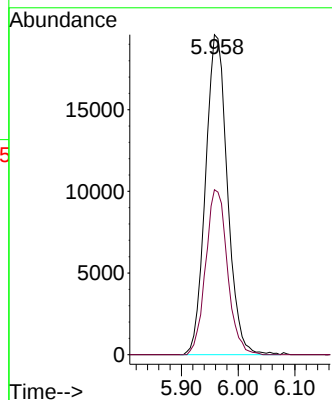
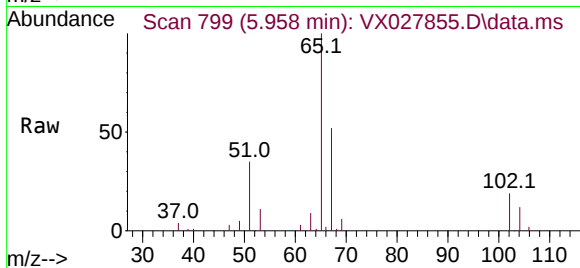
RE131D2-20220319

Tgt Ion: 65 Resp: 52484

Ion Ratio Lower Upper

65 100

67 51.3 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

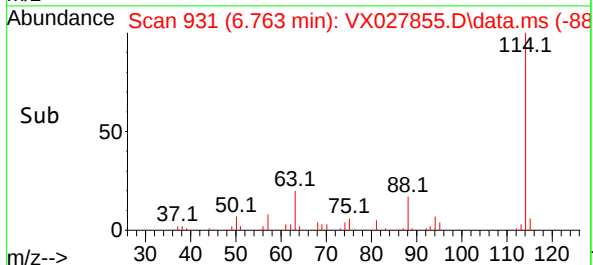
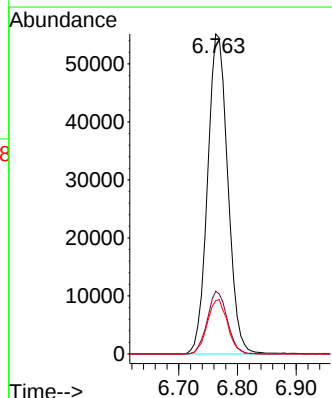
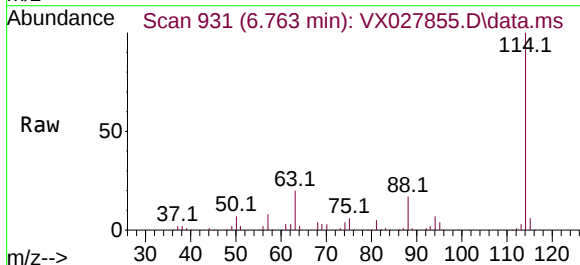
Tgt Ion: 114 Resp: 131906

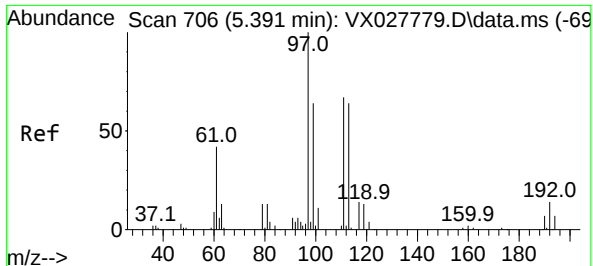
Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.8

88 16.7 0.0 32.4





#35

Dibromofluoromethane

Concen: 53.801 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX027855.D

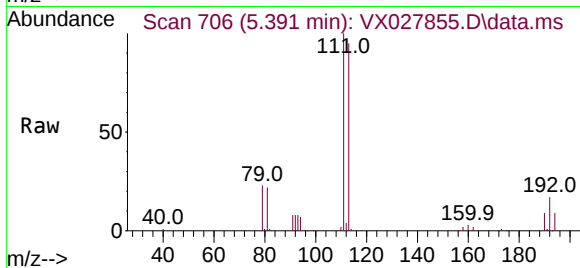
Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20220319



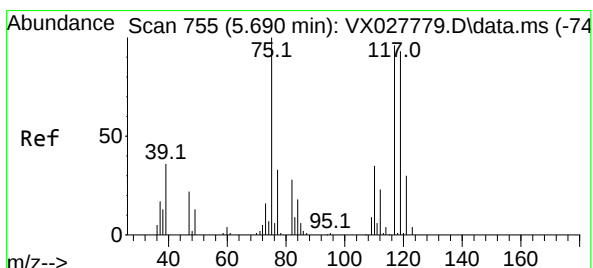
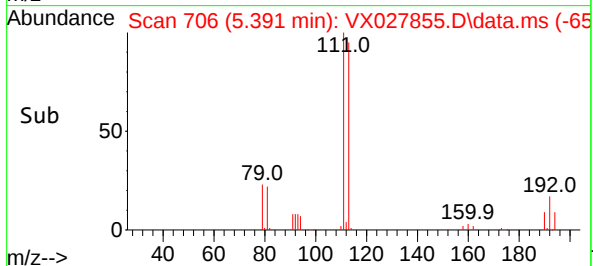
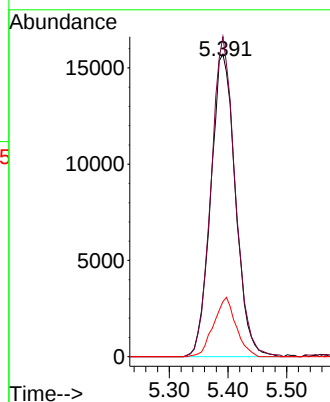
Tgt Ion:113 Resp: 45807

Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

192 17.8 16.9 25.3



#36

1,1-Dichloropropene

Concen: 5.892 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

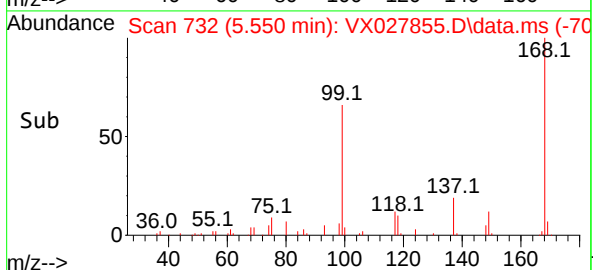
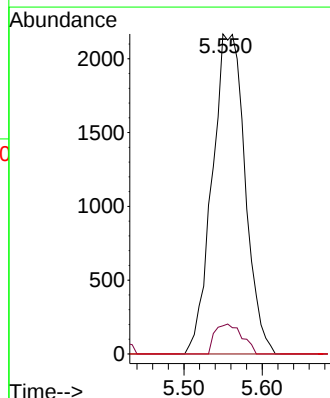
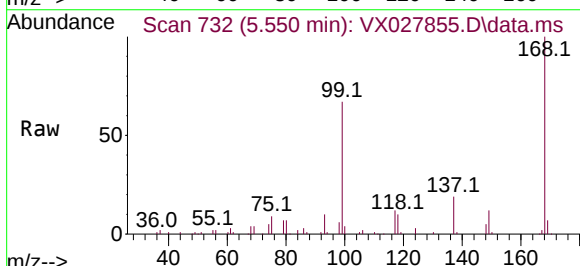
Tgt Ion: 75 Resp: 6318

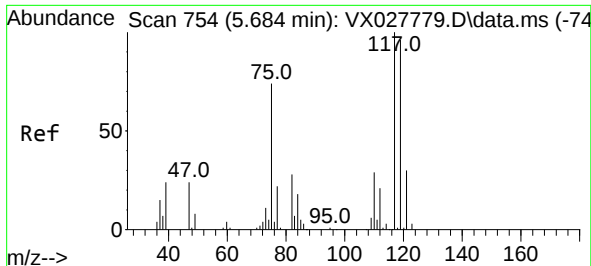
Ion Ratio Lower Upper

75 100

110 7.7 18.3 54.8#

77 0.0 24.8 37.2#

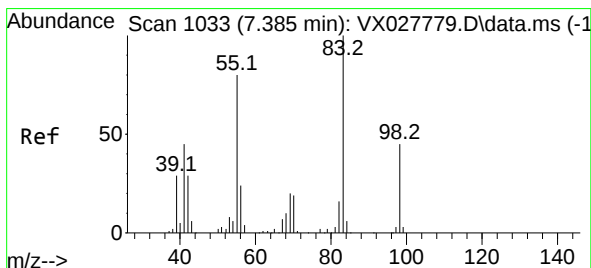
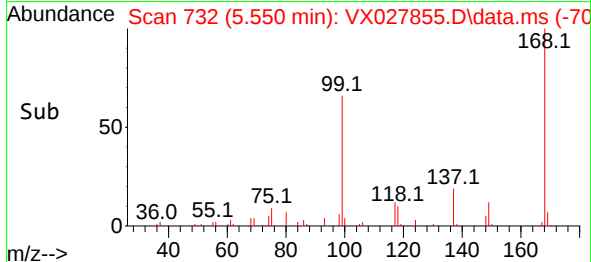
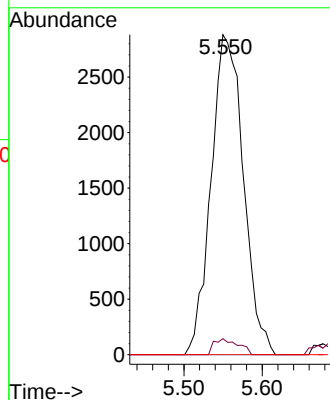
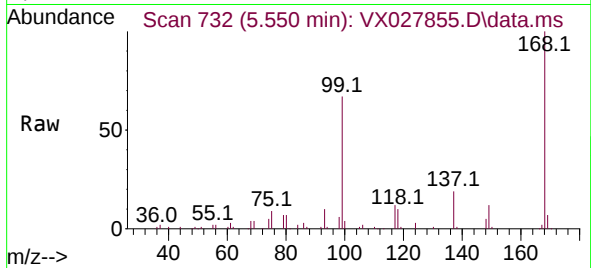




#38
Carbon Tetrachloride
Concen: 6.967 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

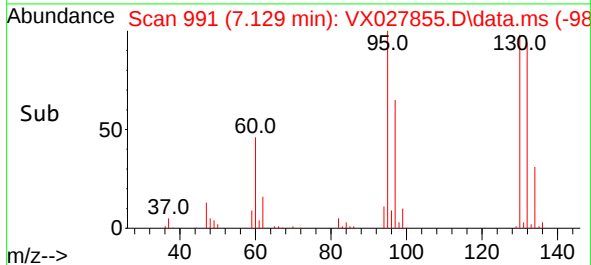
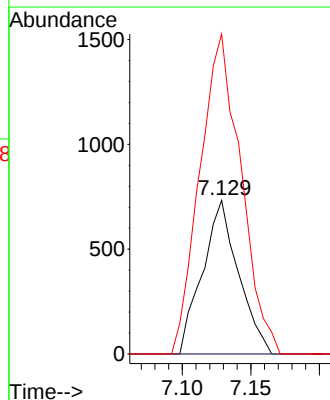
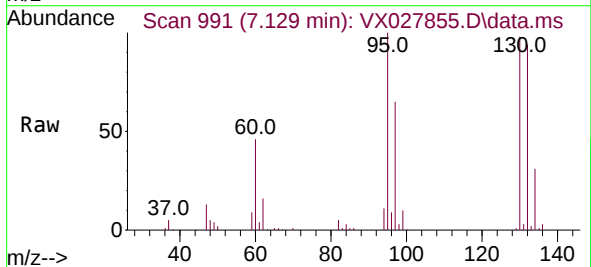
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

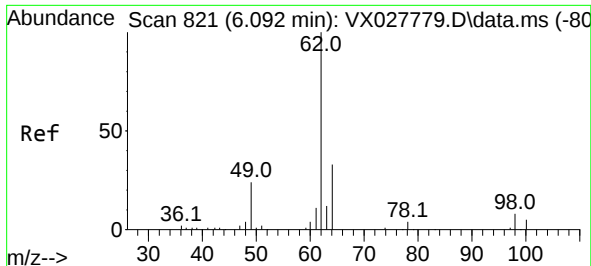
Tgt Ion:117 Resp: 8254
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.061 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.256 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 83 Resp: 1339
Ion Ratio Lower Upper
83 100
55 0.0 54.6 81.8#
98 208.3 37.4 56.2#





#42

1,2-Dichloroethane

Concen: 0.295 ug/l

RT: 6.086 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

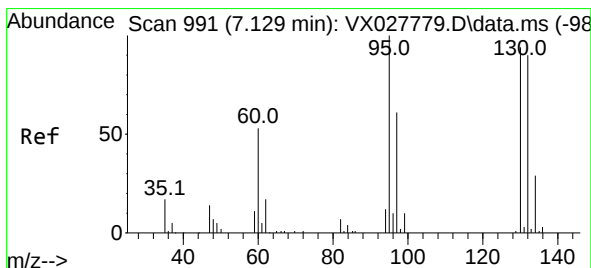
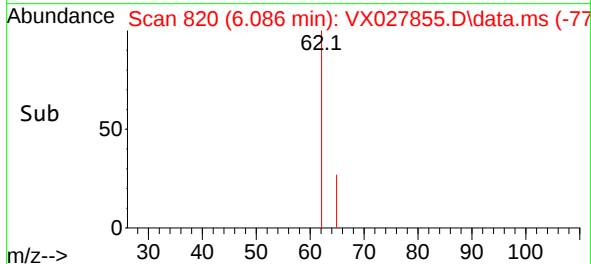
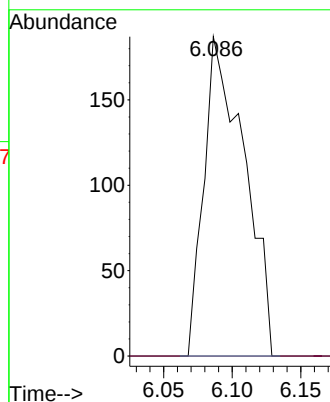
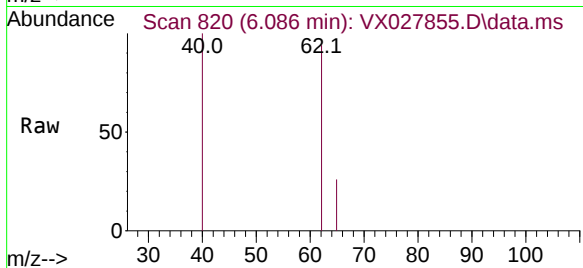
RE131D2-20220319

Tgt Ion: 62 Resp: 383

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#44

Trichloroethene

Concen: 133.734 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX027855.D

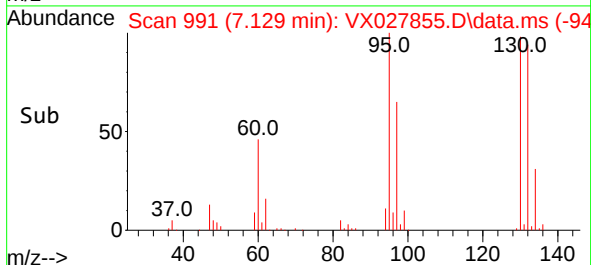
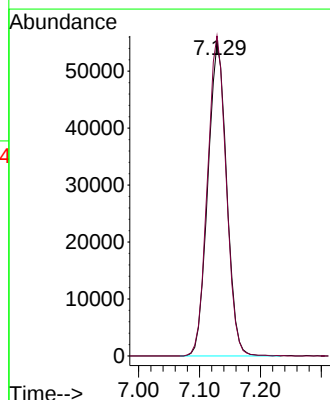
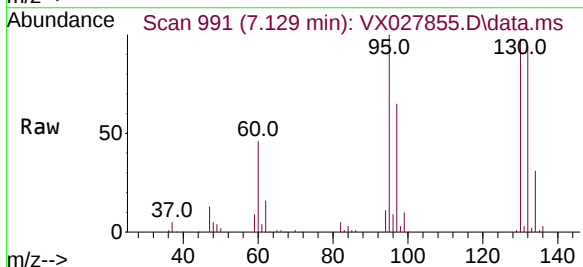
Acq: 31 Mar 2022 18:04

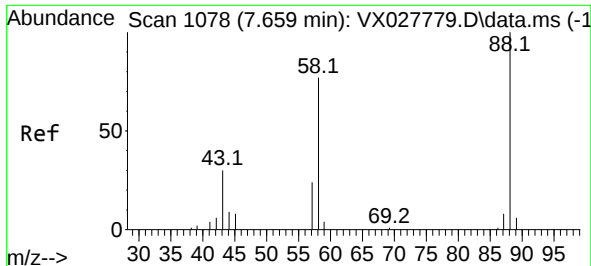
Tgt Ion:130 Resp: 118109

Ion Ratio Lower Upper

130 100

95 102.2 0.0 188.8





#49

1,4-Dioxane

Concen: 29.214 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX027855.D

Acq: 31 Mar 2022 18:04

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20220319

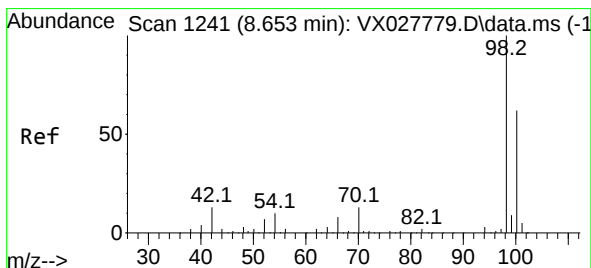
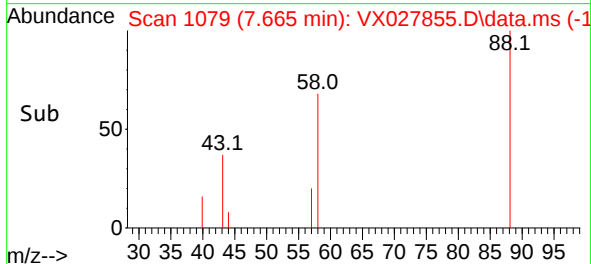
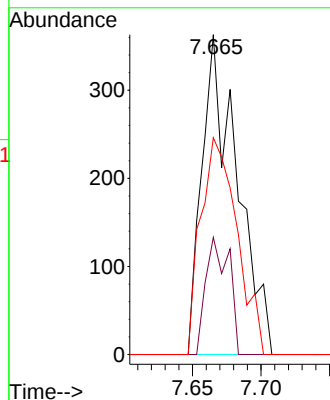
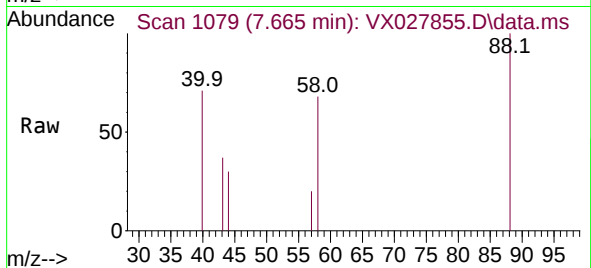
Tgt Ion: 88 Resp: 644

Ion Ratio Lower Upper

88 100

43 24.2 21.9 32.9

58 70.0 53.7 80.5



#50

Toluene-d8

Concen: 51.679 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX027855.D

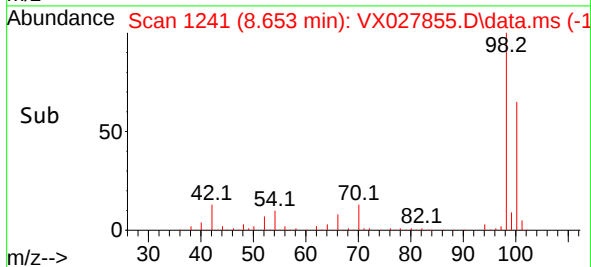
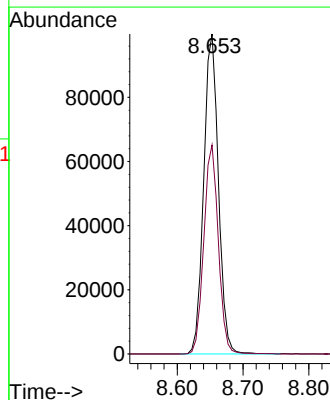
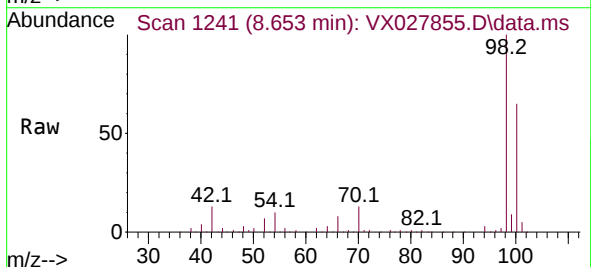
Acq: 31 Mar 2022 18:04

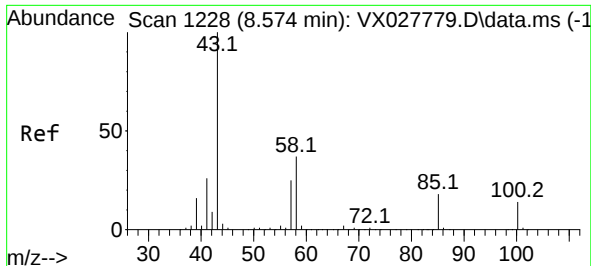
Tgt Ion: 98 Resp: 154814

Ion Ratio Lower Upper

98 100

100 64.5 52.6 78.8

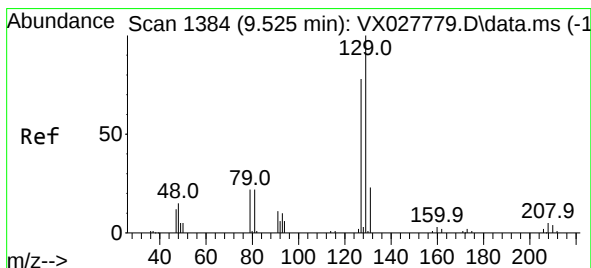
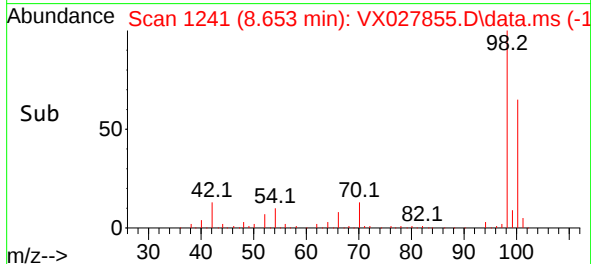
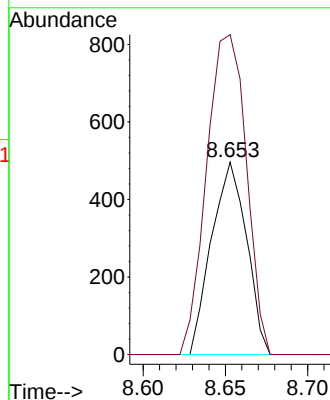
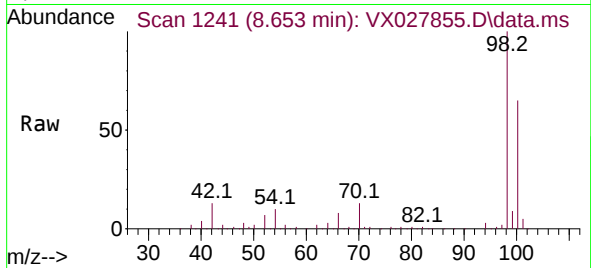




#51
4-Methyl-2-Pentanone
Concen: 0.498 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.079 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

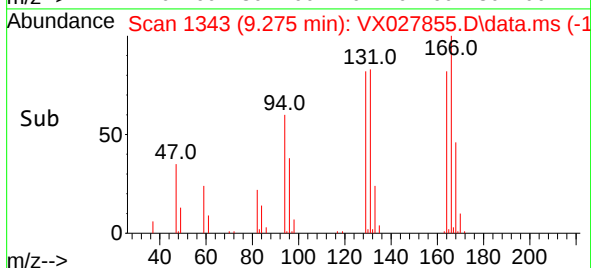
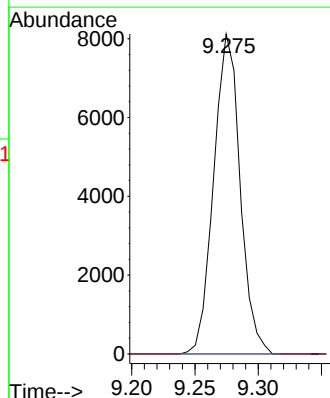
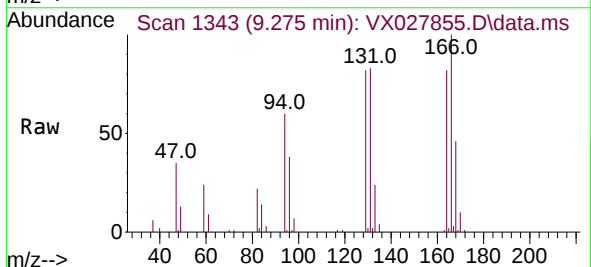
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

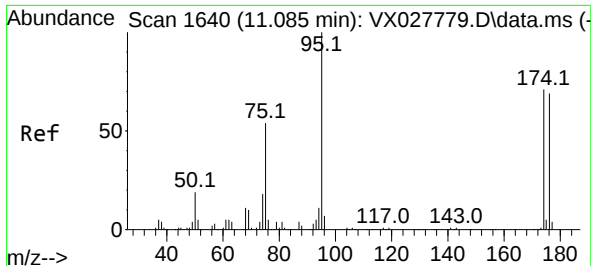
Tgt Ion: 43 Resp: 735
Ion Ratio Lower Upper
43 100
58 188.3 36.1 54.1#



#60
Dibromochloromethane
Concen: 12.520 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.250 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 129 Resp: 11786
Ion Ratio Lower Upper
129 100
127 0.0 40.3 120.8#

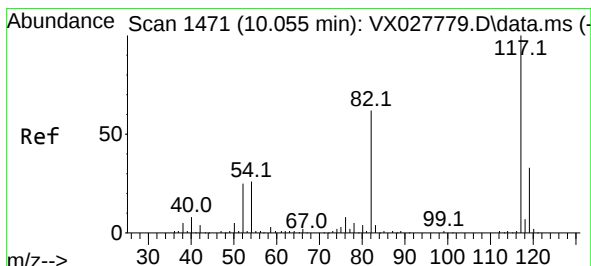
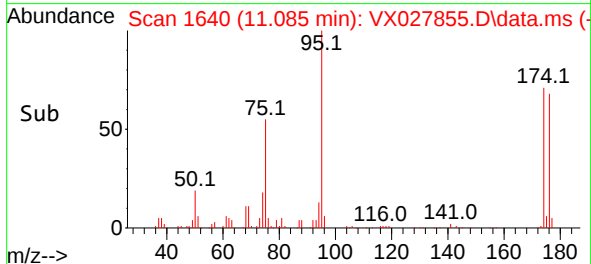
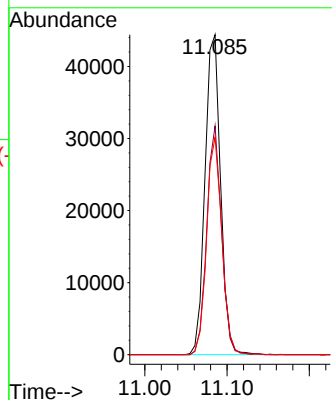
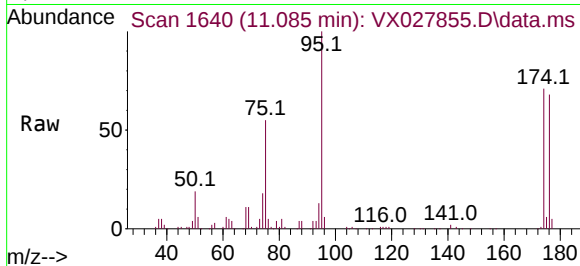




#62
4-Bromofluorobenzene
Concen: 45.892 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

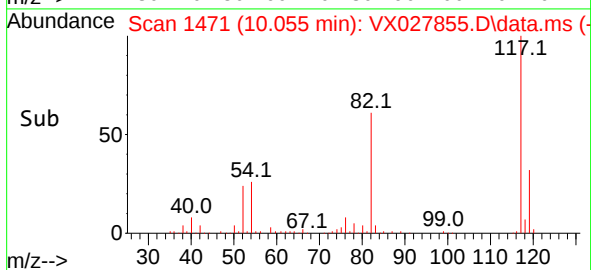
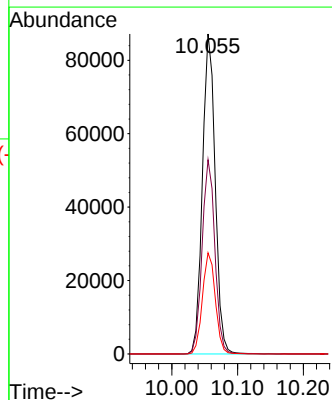
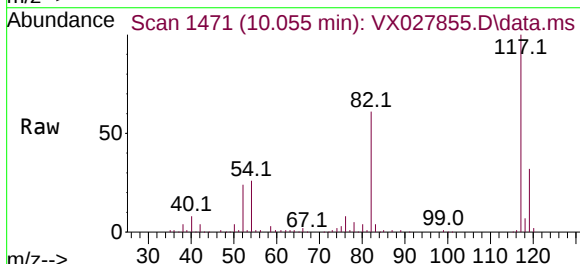
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

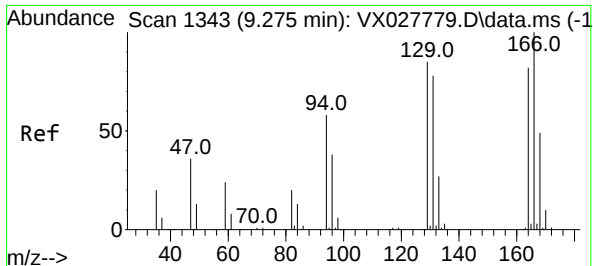
Tgt Ion: 95 Resp: 58423
Ion Ratio Lower Upper
95 100
174 68.0 0.0 163.0
176 66.2 0.0 155.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

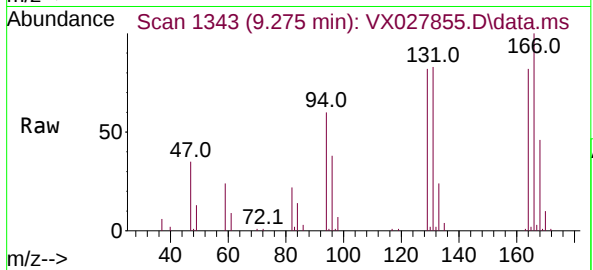
Tgt Ion: 117 Resp: 117367
Ion Ratio Lower Upper
117 100
82 60.7 41.8 62.8
119 31.6 24.8 37.2





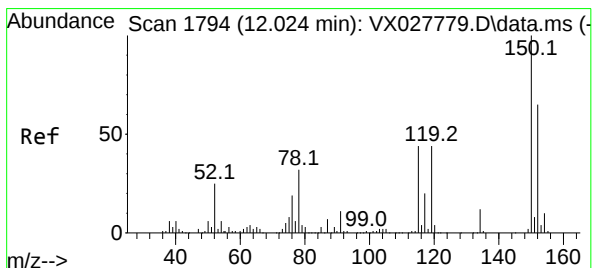
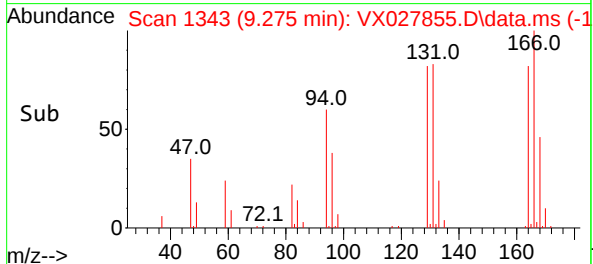
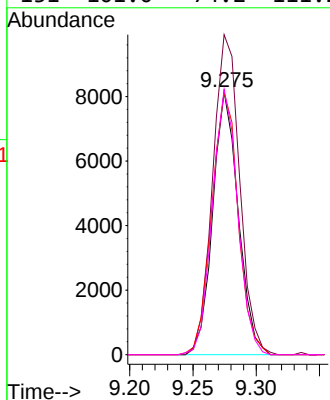
#64
Tetrachloroethene
Concen: 14.322 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319



Tgt Ion:164 Resp: 11397

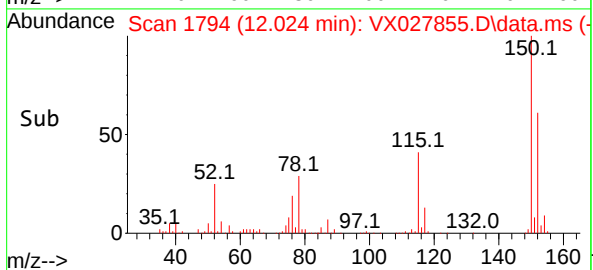
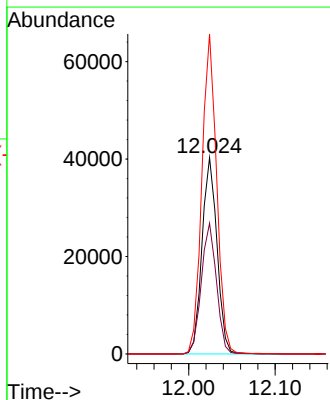
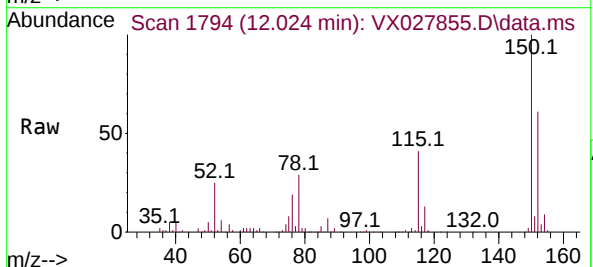
Ion	Ratio	Lower	Upper
164	100		
166	121.8	101.2	151.8
129	99.7	73.0	109.4
131	101.0	74.2	111.2

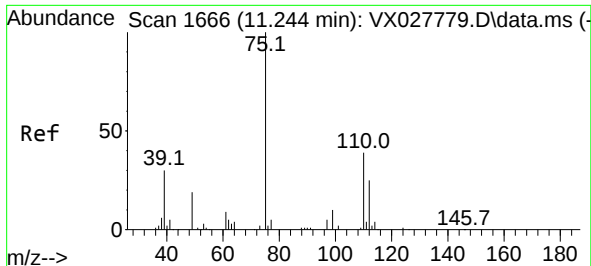


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion:152 Resp: 48500

Ion	Ratio	Lower	Upper
152	100		
115	67.2	37.5	112.7
150	161.0	0.0	338.2

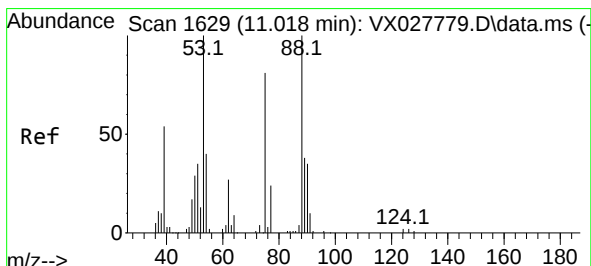
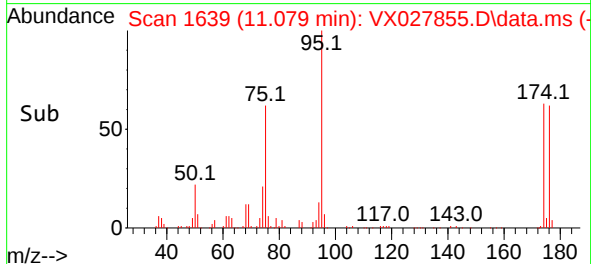
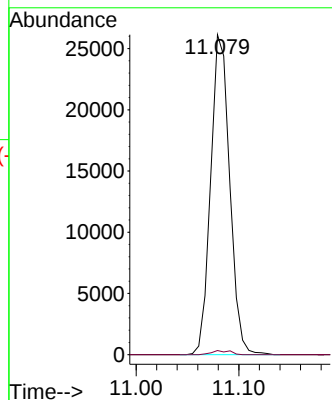
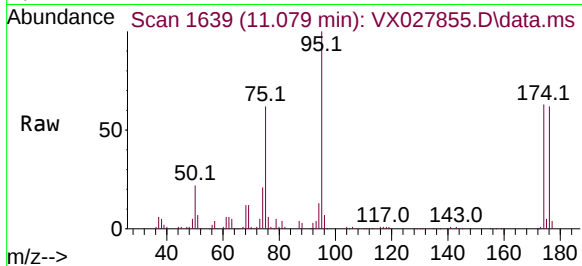




#76
1,2,3-Trichloropropane
Concen: 29.504 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20220319

Tgt Ion: 75 Resp: 33568
Ion Ratio Lower Upper
75 100
77 1.3 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.998 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX027855.D
Acq: 31 Mar 2022 18:04

Tgt Ion: 75 Resp: 33568
Ion Ratio Lower Upper
75 100
53 0.0 69.0 103.4#
89 0.0 37.0 55.6#

