

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120421\
 Data File : VX025524.D
 Acq On : 04 Dec 2021 16:07
 Operator : JC/MD
 Sample : M4924-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-20211202

Quant Time: Dec 06 01:03:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
 Quant Title : Sw846 8260
 QLast Update : Wed Nov 17 15:36:16 2021
 Response via : Initial Calibration

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

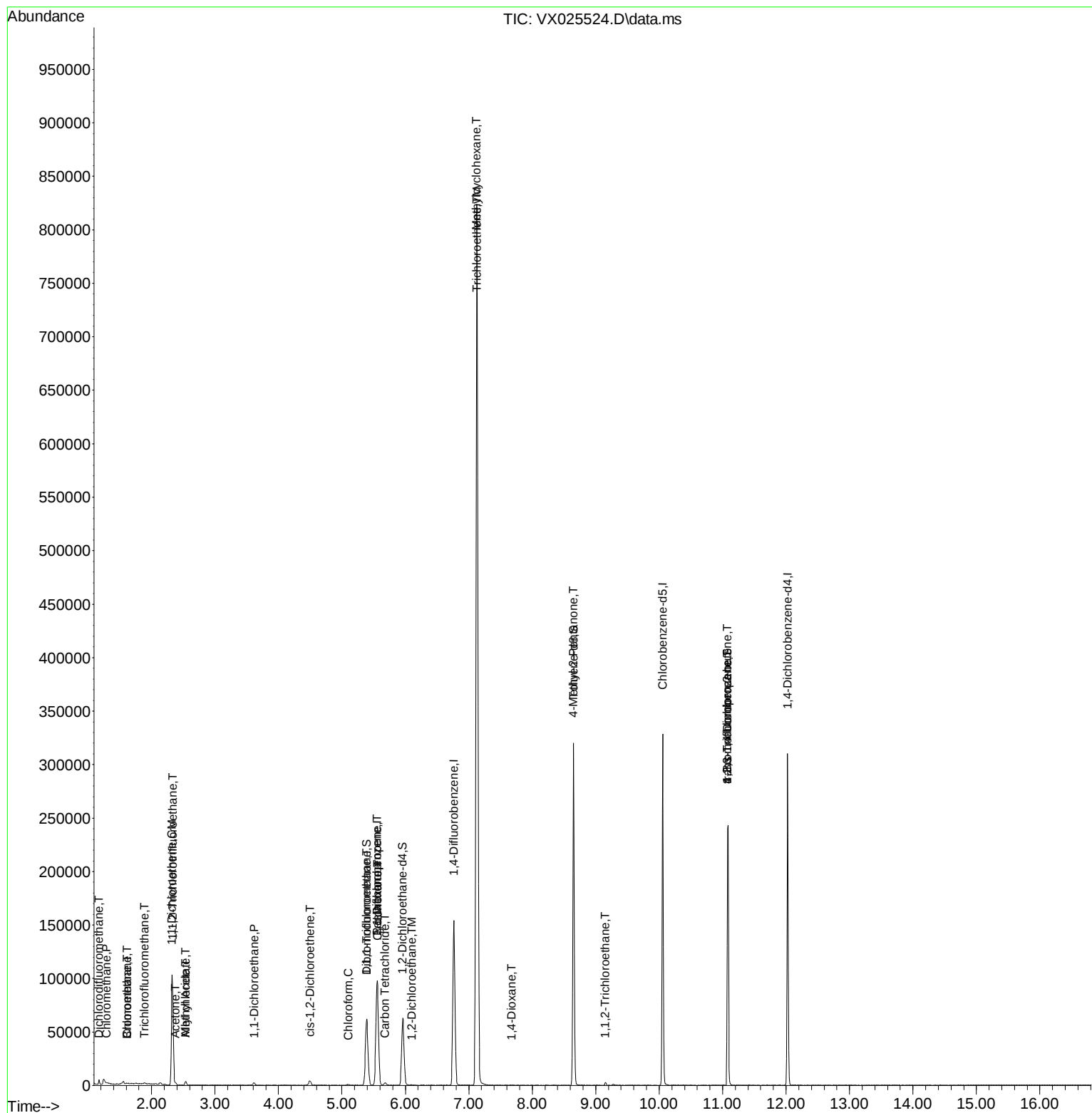
Internal Standards						
1) Pentafluorobenzene	5.556	168	98947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	166953	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	149520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	65697	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	59167	56.73	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery	=	113.46%	
35) Dibromofluoromethane	5.391	113	51908	50.67	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	=	101.34%	
50) Toluene-d8	8.653	98	193420	50.22	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.079	95	67607	46.40	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery	=	92.80%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	326	0.38	ug/l	98
3) Chloromethane	1.295	50	218	0.21	ug/l	92
5) Bromomethane	1.618	94	222	0.44	ug/l #	59
6) Chloroethane	1.612	64	245	0.30	ug/l #	43
7) Trichlorofluoromethane	1.886	101	604	0.35	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	26422	28.69	ug/l	98
12) 1,1-Dichloroethene	2.319	96	16192	17.66	ug/l	92
14) Allyl chloride	2.538	41	368	0.22	ug/l #	57
16) Acetone	2.380	43	1962	3.39	ug/l	93
18) Methyl Acetate	2.538	43	1009	0.54	ug/l #	52
24) 1,1-Dichloroethane	3.617	63	2792	1.62	ug/l	93
27) cis-1,2-Dichloroethene	4.495	96	2780	2.37	ug/l	87
30) Chloroform	5.105	83	1268	0.71	ug/l #	81
31) Cyclohexane	5.562	56	1814	1.13	ug/l #	1
32) 1,1,1-Trichloroethane	5.391	97	2610	1.59	ug/l	96
36) 1,1-Dichloropropene	5.556	75	6705	4.60	ug/l #	50
38) Carbon Tetrachloride	5.678	117	2141	1.33	ug/l	87
39) Methylcyclohexane	7.123	83	3676	1.97	ug/l #	1
42) 1,2-Dichloroethane	6.099	62	542	0.38	ug/l #	77
44) Trichloroethene	7.129	130	328514	256.29	ug/l	95
49) 1,4-Dioxane	7.678	88	343	12.55	ug/l #	76
51) 4-Methyl-2-Pentanone	8.647	43	860	0.50	ug/l #	1
55) 1,1,2-Trichloroethane	9.153	97	776	0.68	ug/l #	85
76) 1,2,3-Trichloropropane	11.079	75	33216	24.69	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	33216	62.20	ug/l #	9

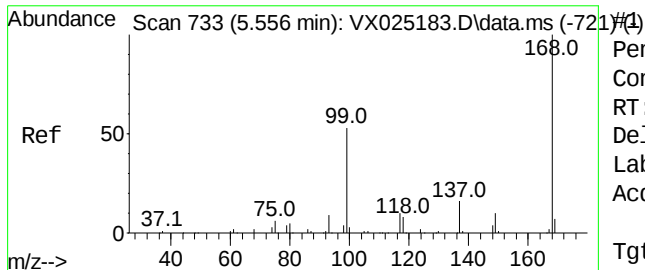
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 17 15:36:16 2021
Response via : Initial Calibration





Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.556 min Scan#

Delta R.T. -0.000 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

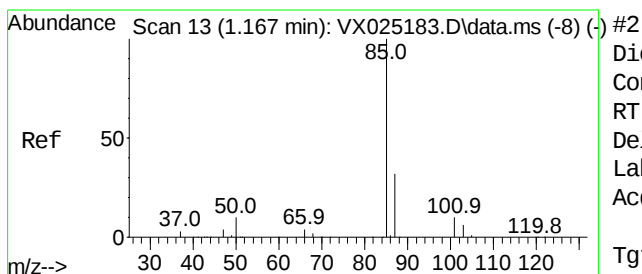
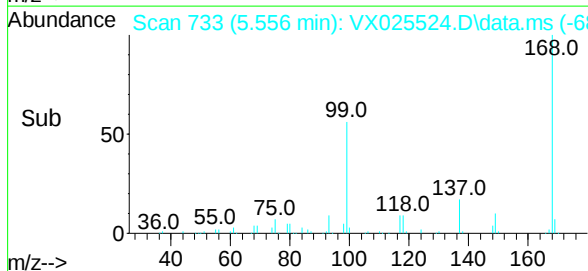
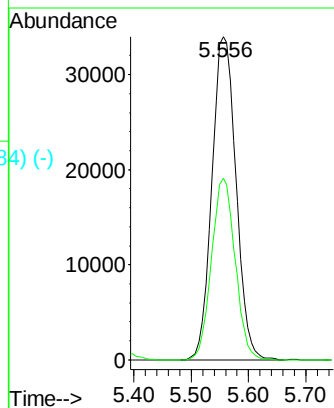
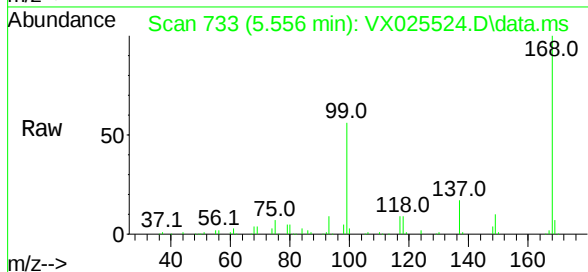
RE108D2-20211202

Tgt Ion:168 Resp: 98947

Ion Ratio Lower Upper

168 100

99 56.3 46.4 69.6



Dichlorodifluoromethane

Concen: 0.38 ug/l

RT: 1.166 min Scan# 13

Delta R.T. -0.001 min

Lab File: VX025524.D

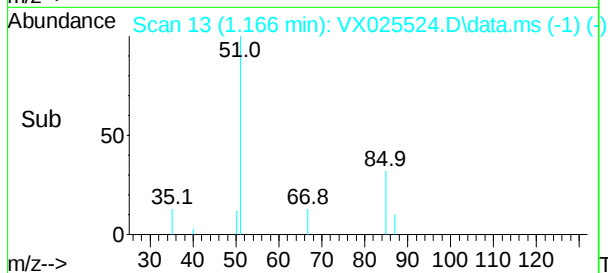
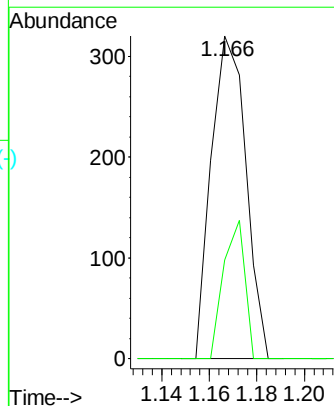
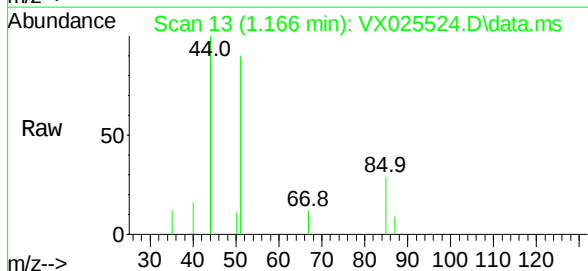
Acq: 04 Dec 2021 16:07

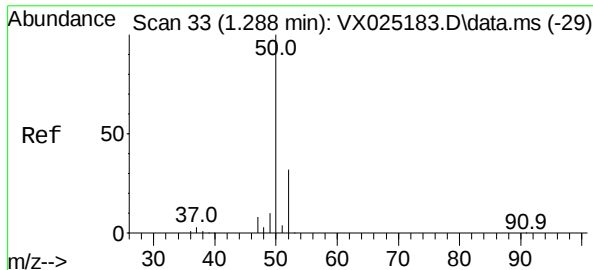
Tgt Ion: 85 Resp: 326

Ion Ratio Lower Upper

85 100

87 30.6 16.0 47.9





Chloromethane

Concen: 0.21 ug/l

RT: 1.295 min Scan#

Delta R.T. 0.006 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

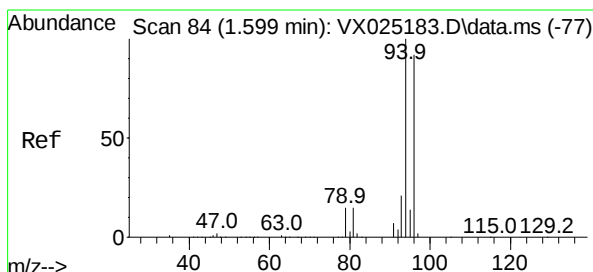
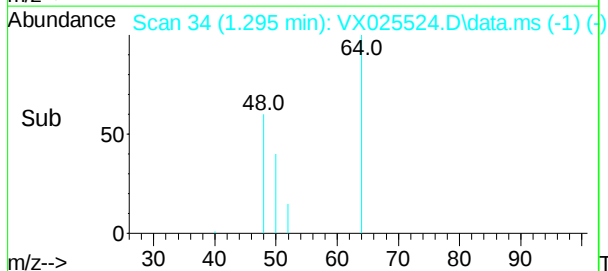
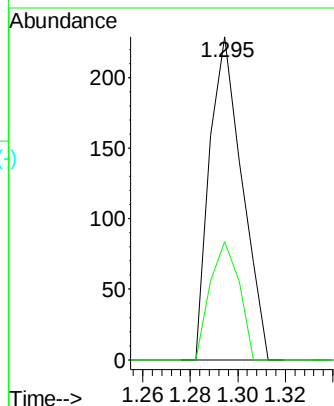
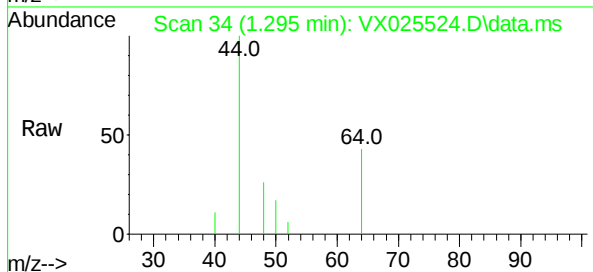
RE108D2-20211202

Tgt Ion: 50 Resp: 218

Ion Ratio Lower Upper

50 100

52 36.7 25.9 38.9



Bromomethane

Concen: 0.44 ug/l

RT: 1.618 min Scan# 87

Delta R.T. 0.019 min

Lab File: VX025524.D

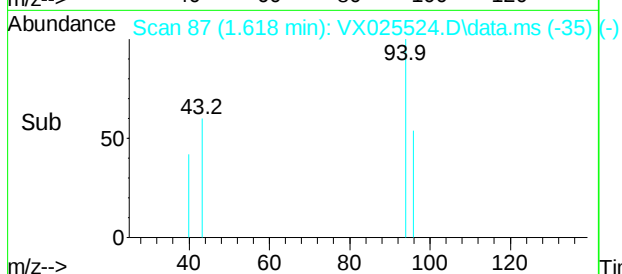
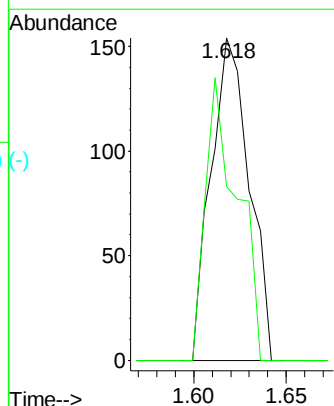
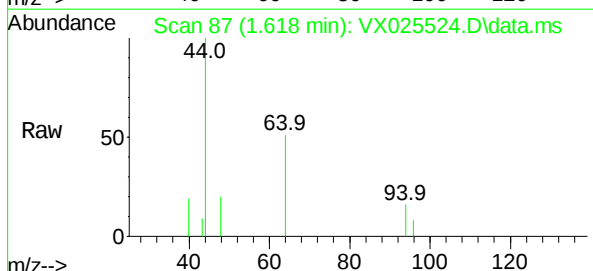
Acq: 04 Dec 2021 16:07

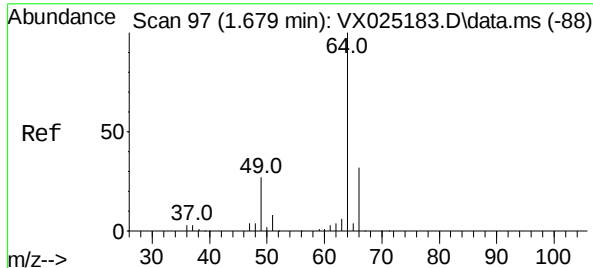
Tgt Ion: 94 Resp: 222

Ion Ratio Lower Upper

94 100

96 53.9 74.8 112.2#





Chloroethane

Concen: 0.30 ug/l

RT: 1.612 min Scan# 8

Delta R.T. -0.067 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

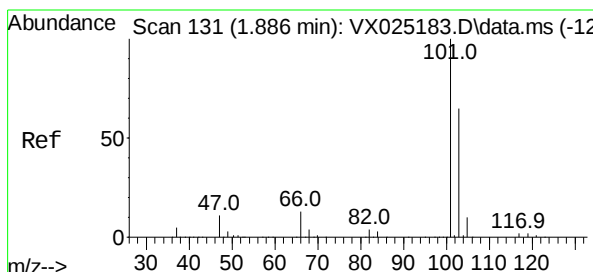
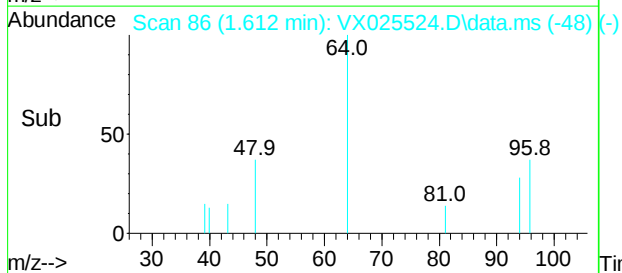
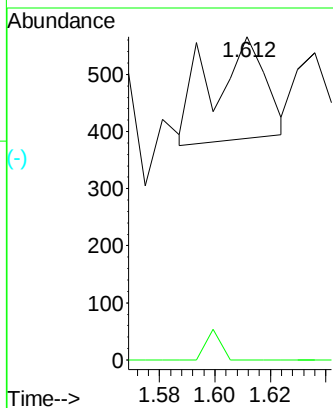
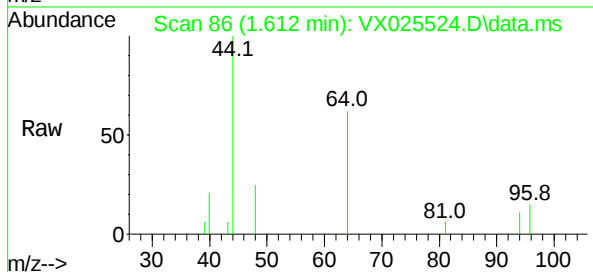
RE108D2-20211202

Tgt Ion: 64 Resp: 245

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Trichlorofluoromethane

Concen: 0.35 ug/l

RT: 1.886 min Scan# 131

Delta R.T. -0.000 min

Lab File: VX025524.D

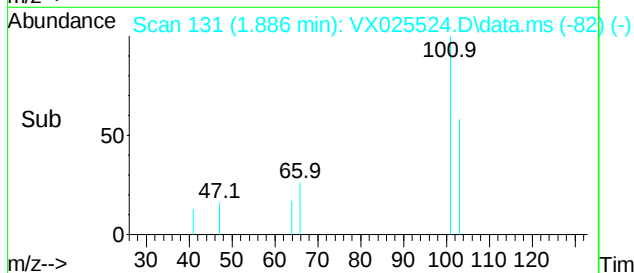
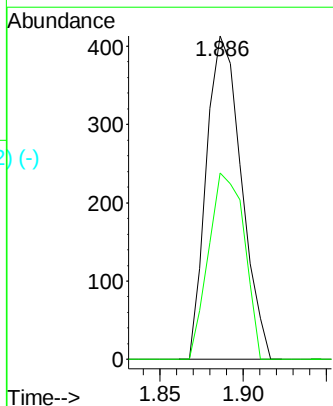
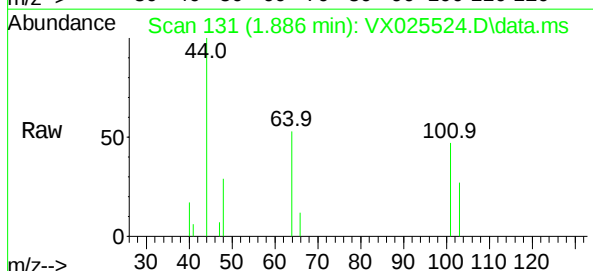
Acq: 04 Dec 2021 16:07

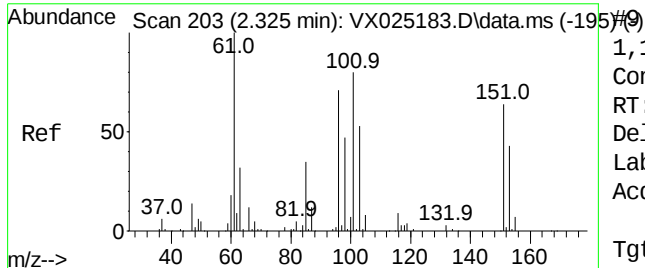
Tgt Ion: 101 Resp: 604

Ion Ratio Lower Upper

101 100

103 57.6 51.0 76.6





1,1,2-Trichlorotrifluoroethane

Concen: 28.69 ug/l

RT: 2.331 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

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ClientSampleId :

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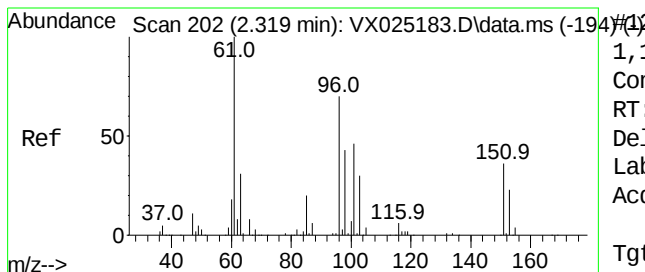
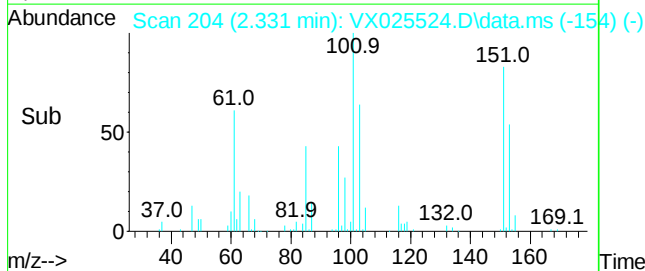
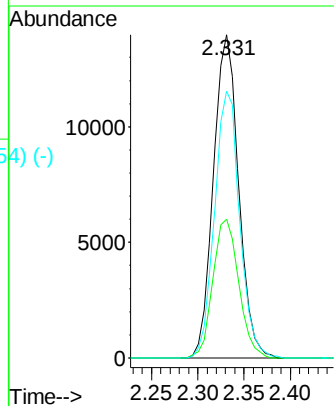
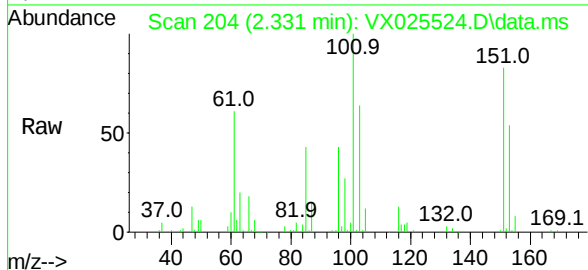
Tgt Ion:101 Resp: 26422

Ion Ratio Lower Upper

101 100

85 44.1 35.9 53.9

151 82.5 64.4 96.6



1,1-Dichloroethene

Concen: 17.66 ug/l

RT: 2.319 min Scan# 202

Delta R.T. -0.000 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

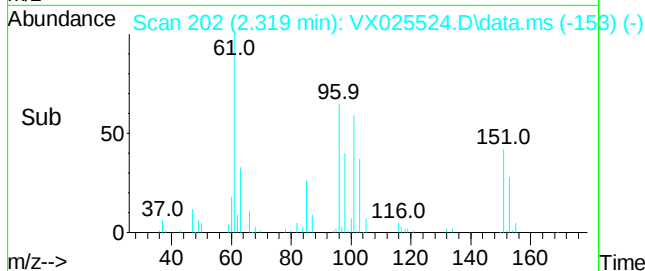
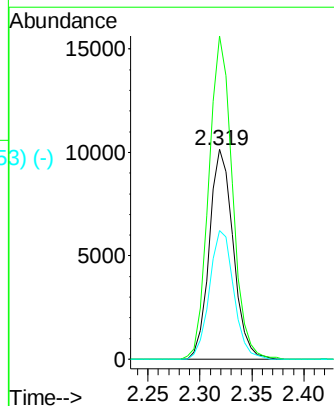
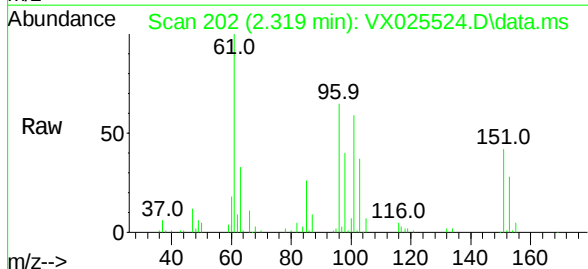
Tgt Ion: 96 Resp: 16192

Ion Ratio Lower Upper

96 100

61 154.2 134.1 201.1

98 61.3 51.5 77.3



Abundance Scan 258 (2.660 min): VX025183.D\data.ms (-244)#14

Allyl chloride

Concen: 0.22 ug/l

RT: 2.538 min Scan# 212

Delta R.T. -0.122 min

Lab File: VX025524.D

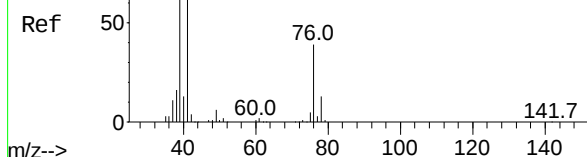
Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

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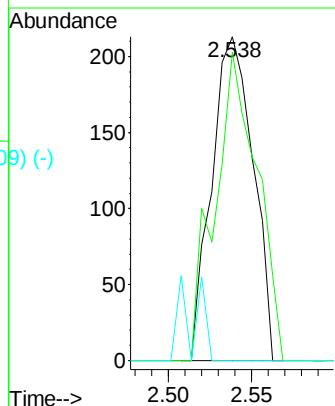
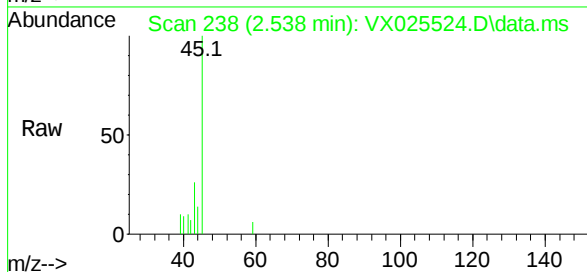
Tgt Ion: 41 Resp: 368

Ion Ratio Lower Upper

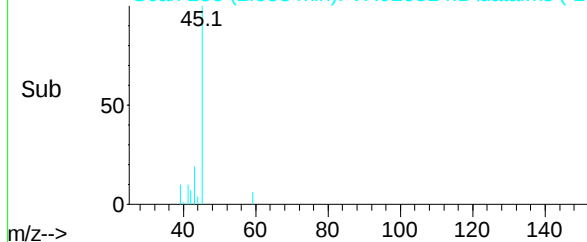
41 100

39 97.6 54.6 82.0#

76 0.0 25.3 37.9#



Abundance Scan 238 (2.538 min): VX025524.D\data.ms (-209) (-)



Abundance Scan 212 (2.380 min): VX025183.D\data.ms (-205)#16

Acetone

Concen: 3.39 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX025524.D

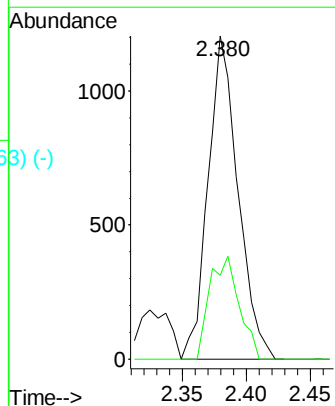
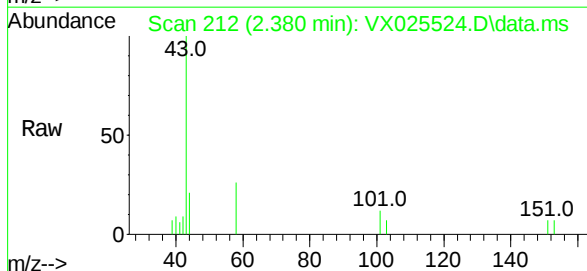
Acq: 04 Dec 2021 16:07

Tgt Ion: 43 Resp: 1962

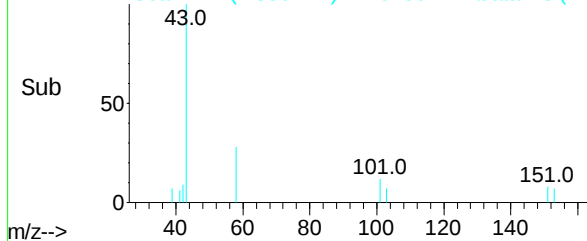
Ion Ratio Lower Upper

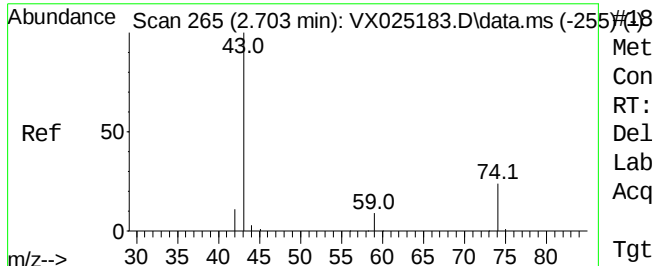
43 100

58 26.0 24.0 36.0



Abundance Scan 212 (2.380 min): VX025524.D\data.ms (-163) (-)





Methyl Acetate

Concen: 0.54 ug/l

RT: 2.538 min Scan# 415

Delta R.T. -0.165 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

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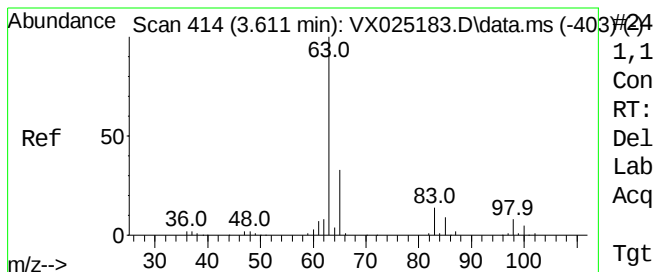
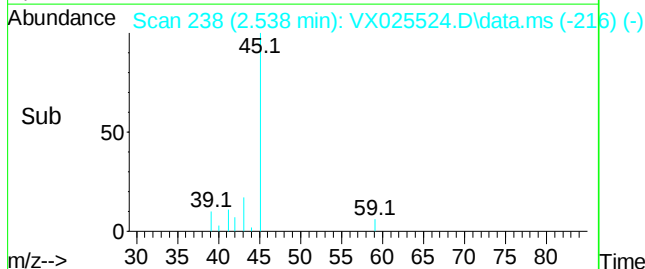
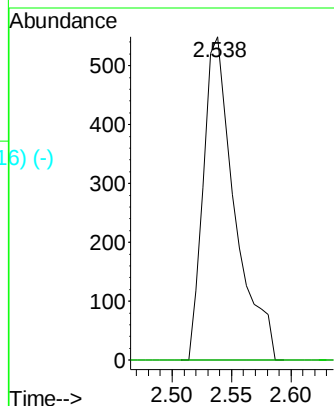
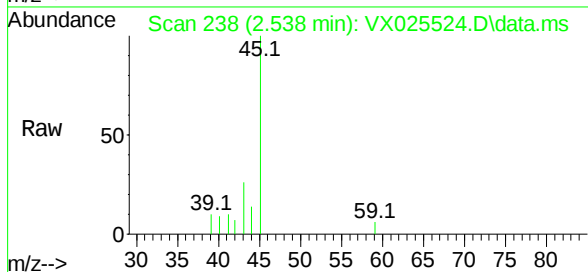
RE108D2-20211202

Tgt Ion: 43 Resp: 1009

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.6#



1,1-Dichloroethane

Concen: 1.62 ug/l

RT: 3.617 min Scan# 415

Delta R.T. 0.006 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

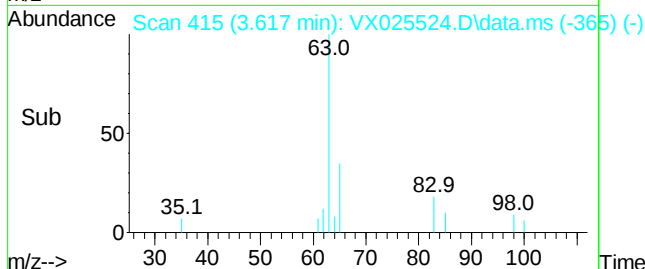
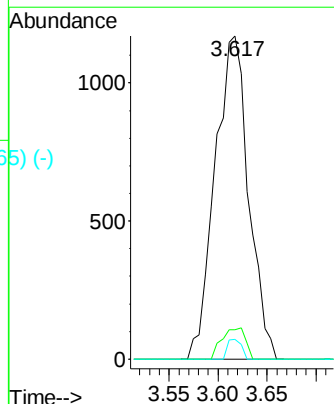
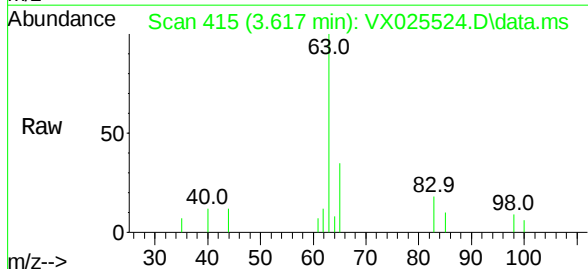
Tgt Ion: 63 Resp: 2792

Ion Ratio Lower Upper

63 100

98 9.1 3.3 9.9

100 6.1 2.1 6.2



Abundance Scan 558 (4.489 min): VX025183.D\data.ms (-546)#27

cis-1,2-Dichloroethene

Concen: 2.37 ug/l

RT: 4.495 min Scan# 659

Delta R.T. 0.006 min

Lab File: VX025524.D

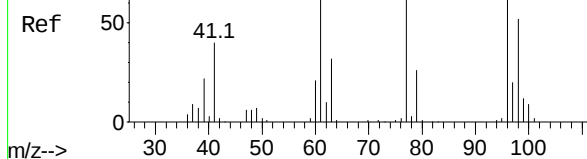
Acq: 04 Dec 2021 16:07

Instrument :

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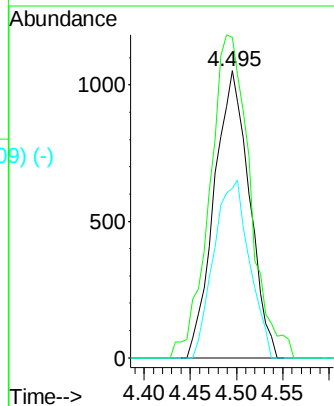
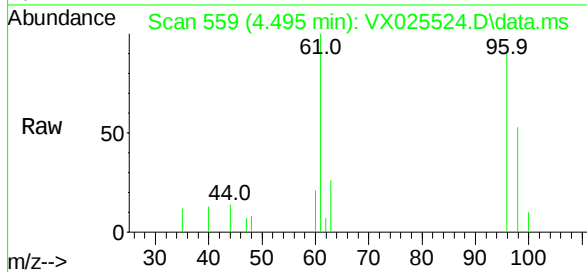
Tgt Ion: 96 Resp: 2780

Ion Ratio Lower Upper

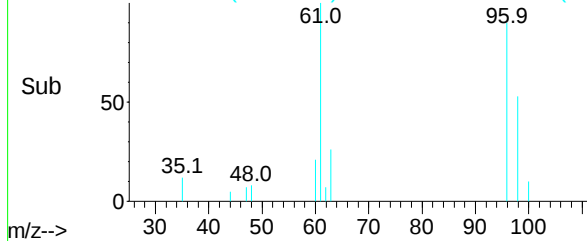
96 100

61 128.8 0.0 302.2

98 62.5 0.0 131.4



Abundance Scan 559 (4.495 min): VX025524.D\data.ms (-509) (-)



Abundance Scan 658 (5.099 min): VX025183.D\data.ms (-645)#30

Chloroform

Concen: 0.71 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.006 min

Lab File: VX025524.D

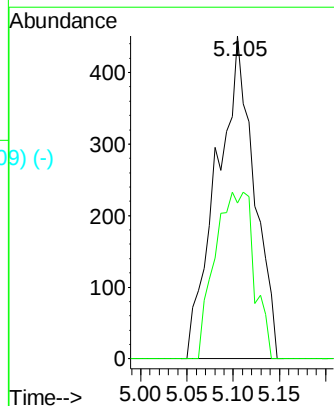
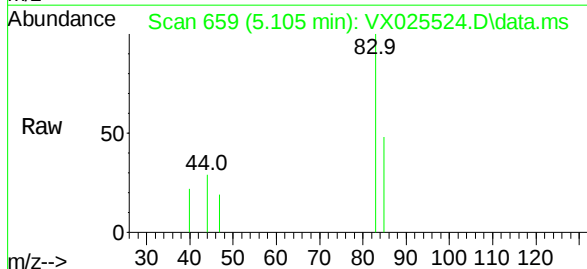
Acq: 04 Dec 2021 16:07

Tgt Ion: 83 Resp: 1268

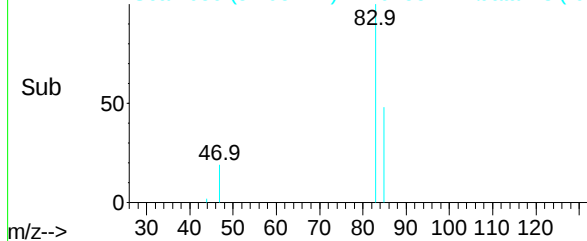
Ion Ratio Lower Upper

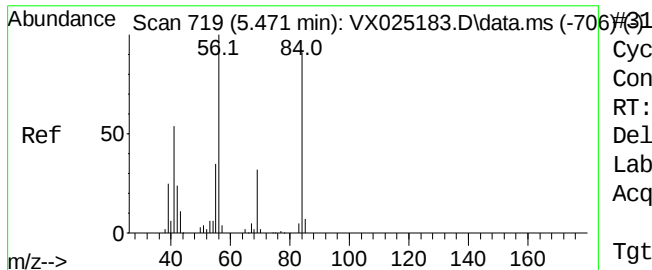
83 100

85 48.3 50.2 75.2#



Abundance Scan 659 (5.105 min): VX025524.D\data.ms (-609) (-)





Cyclohexane

Concen: 1.13 ug/l

RT: 5.562 min Scan#

Delta R.T. 0.091 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20211202

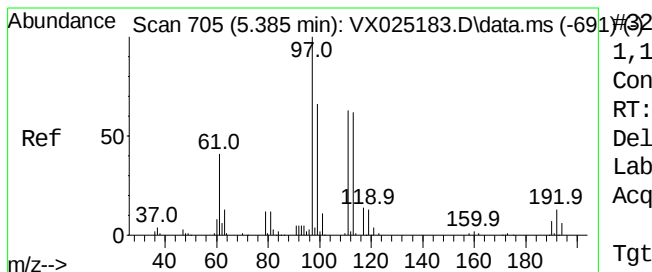
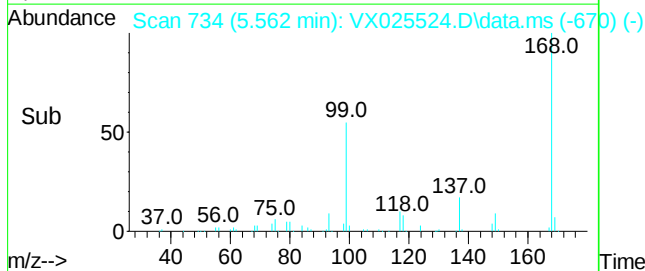
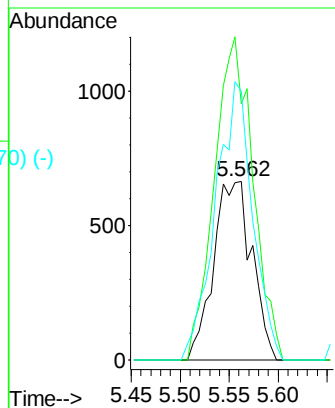
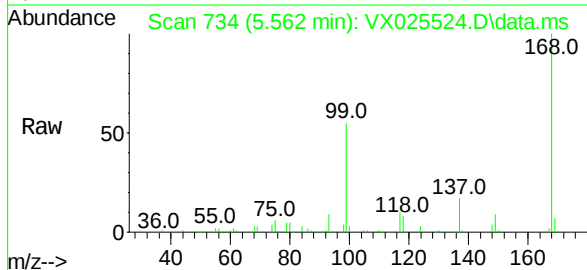
Tgt Ion: 56 Resp: 1814

Ion Ratio Lower Upper

56 100

69 143.3 24.2 36.2#

84 150.5 71.5 107.3#



1,1,1-Trichloroethane

Concen: 1.59 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

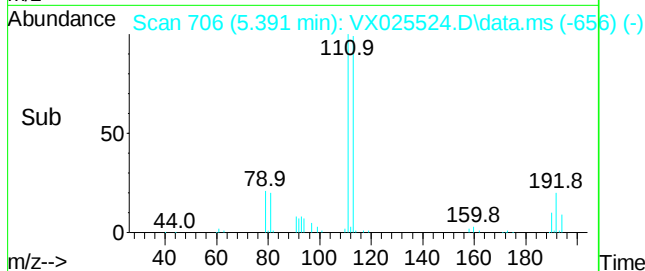
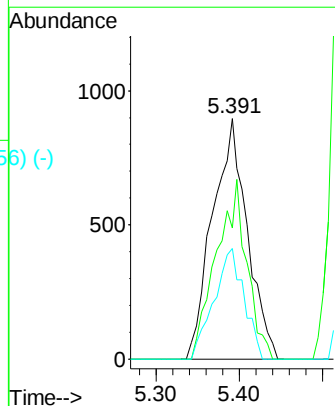
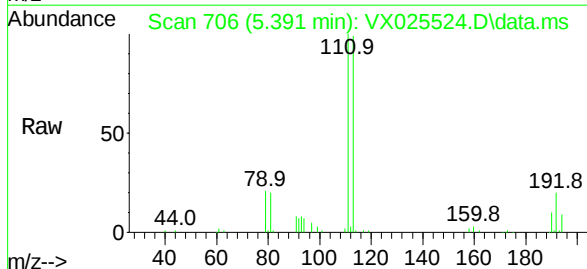
Tgt Ion: 97 Resp: 2610

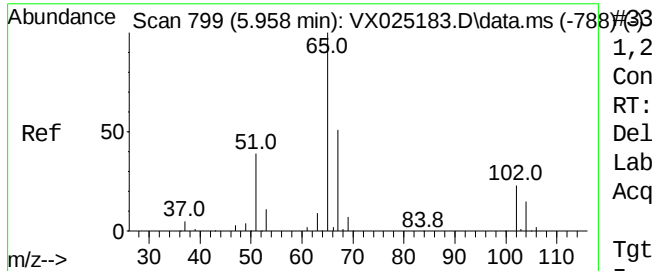
Ion Ratio Lower Upper

97 100

99 65.5 50.9 76.3

61 39.8 35.0 52.4

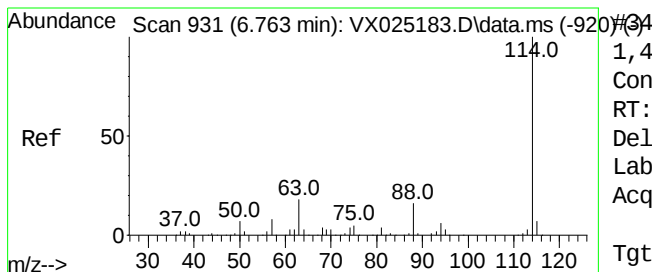
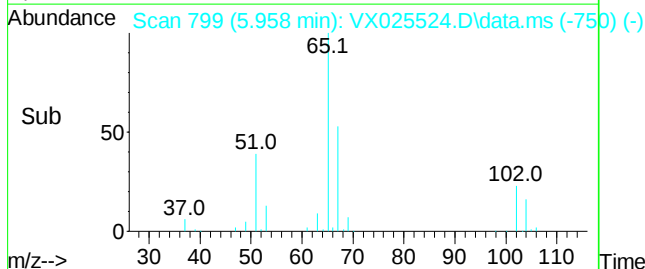
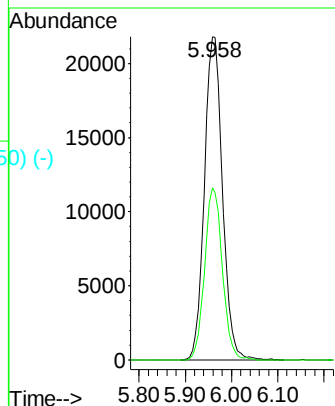
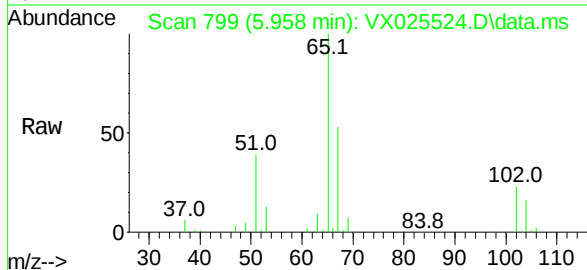




1,2-Dichloroethane-d4
Concen: 56.73 ug/l
RT: 5.958 min Scan#
Delta R.T. 0.000 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

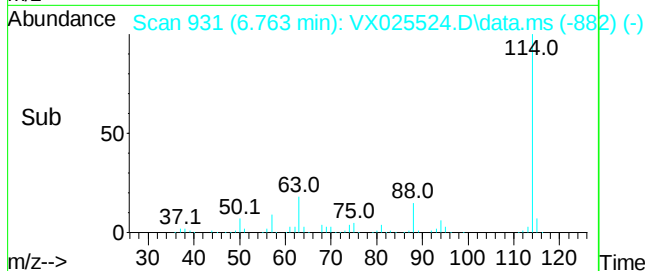
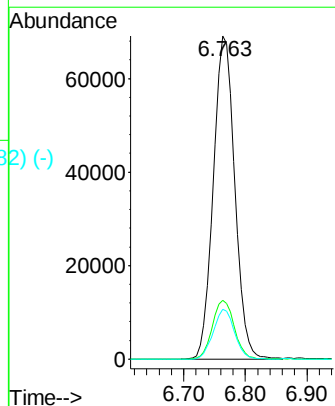
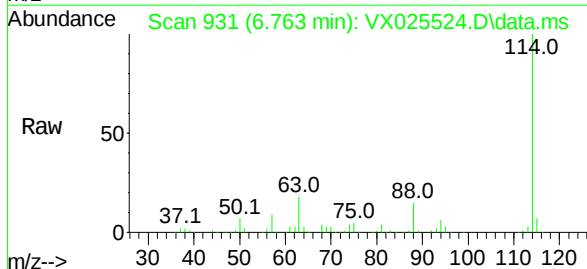
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20211202

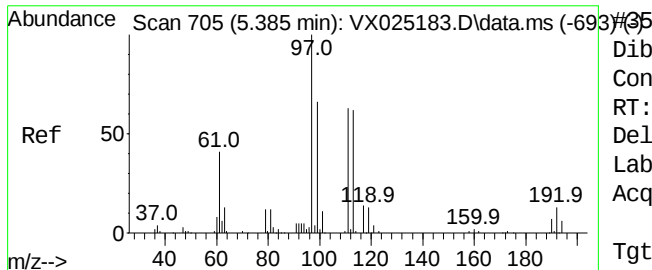
Tgt Ion: 65 Resp: 59167
Ion Ratio Lower Upper
65 100
67 52.1 0.0 101.0



1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Tgt Ion:114 Resp: 166953
Ion Ratio Lower Upper
114 100
63 18.3 0.0 41.0
88 15.4 0.0 34.8

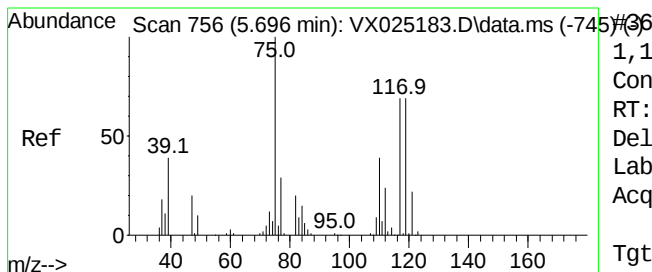
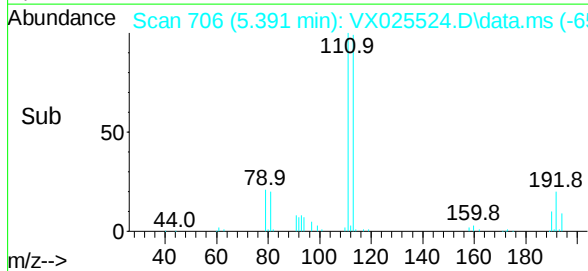
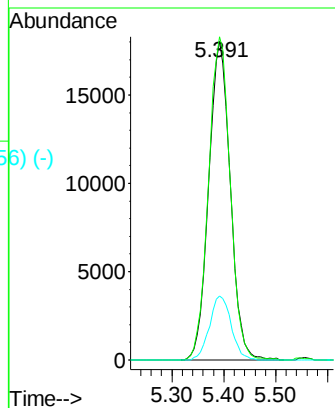
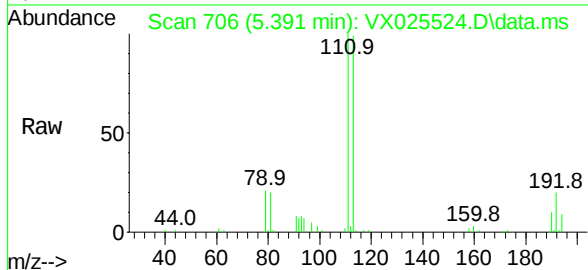




Dibromofluoromethane
Concen: 50.67 ug/l
RT: 5.391 min Scan# 735
Delta R.T. 0.006 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

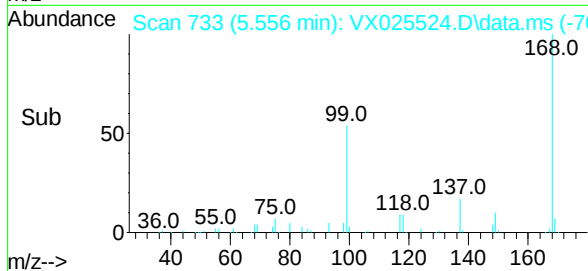
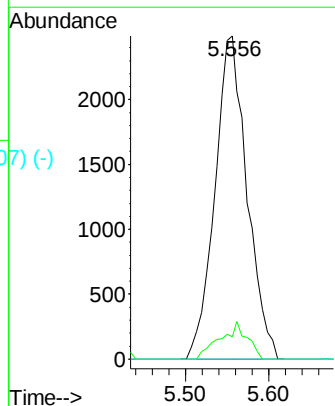
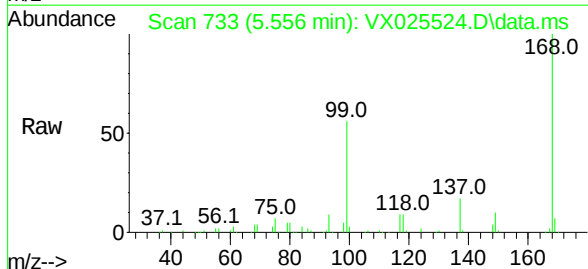
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20211202

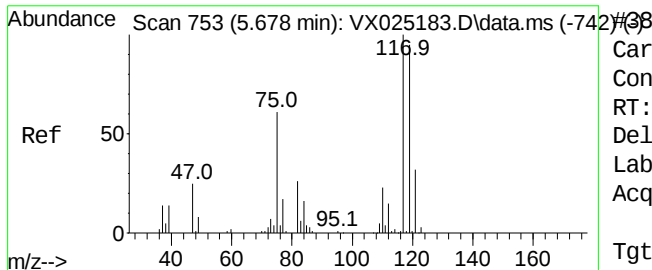
Tgt Ion:	113	Resp:	51908
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.1	123.1
192	20.1	15.6	23.4



1,1-Dichloropropene
Concen: 4.60 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Tgt Ion:	75	Resp:	6705
Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.3#
77	0.0	24.4	36.6#

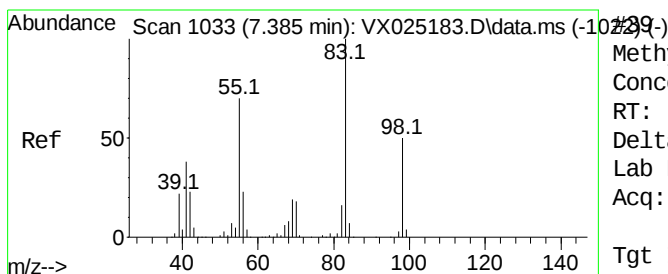
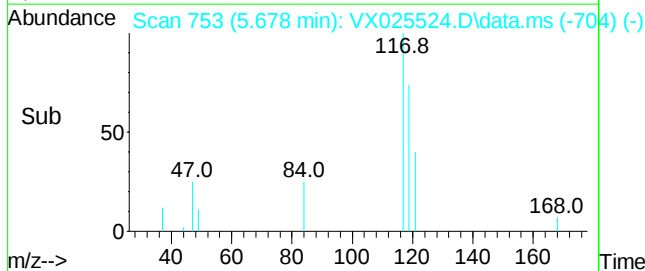
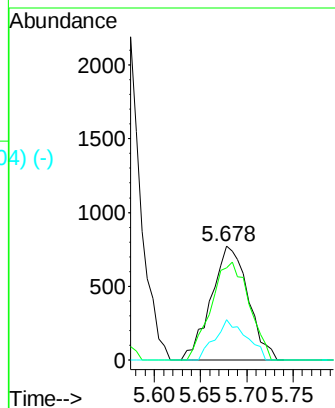
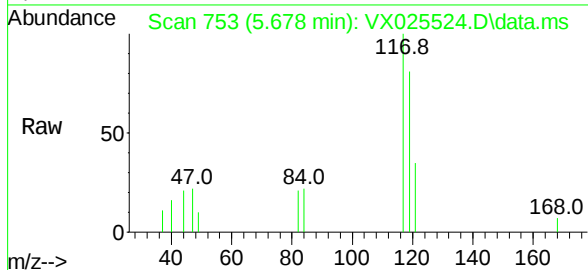




Carbon Tetrachloride
Concen: 1.33 ug/l
RT: 5.678 min Scan# 117
Delta R.T. -0.000 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

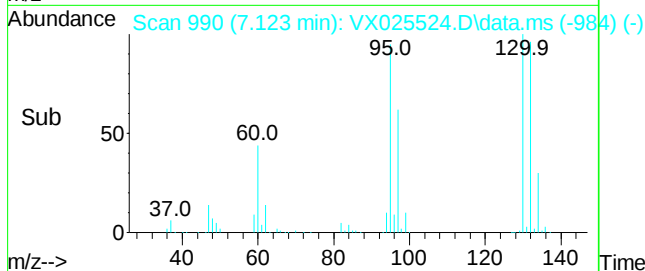
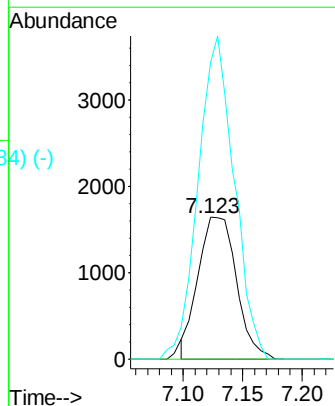
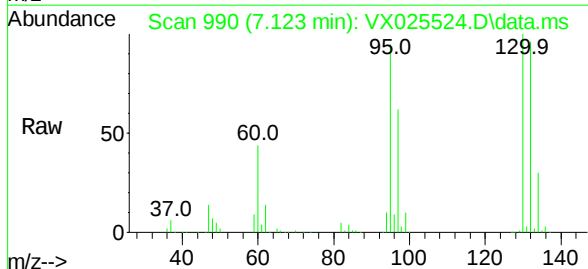
Instrument : MSVOA_X
ClientSampleId : RE108D2-20211202

Tgt Ion:	117	Resp:	2141
Ion	Ratio	Lower	Upper
117	100		
119	80.7	75.6	113.4
121	35.0	23.7	35.5



Methylcyclohexane
Concen: 1.97 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.262 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Tgt Ion:	83	Resp:	3676
Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.8	91.2#
98	209.2	37.0	55.4#



Abundance Scan 820 (6.086 min): VX025183.D\data.ms (-804) #42

1,2-Dichloroethane

Concen: 0.38 ug/l

RT: 6.099 min Scan# 820

Delta R.T. 0.013 min

Lab File: VX025524.D

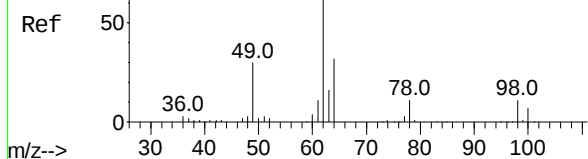
Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20211202

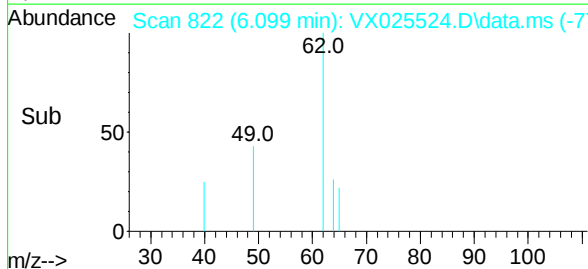
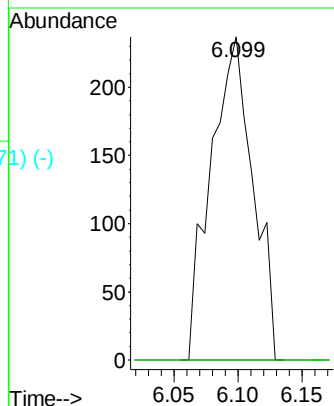
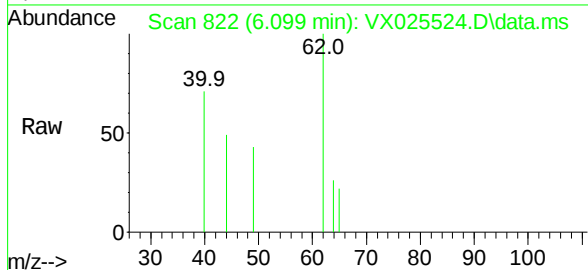


Tgt Ion: 62 Resp: 542

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



Abundance Scan 991 (7.129 min): VX025183.D\data.ms (-981) #44

Trichloroethene

Concen: 256.29 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025524.D

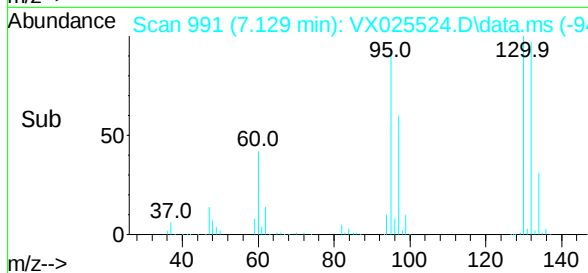
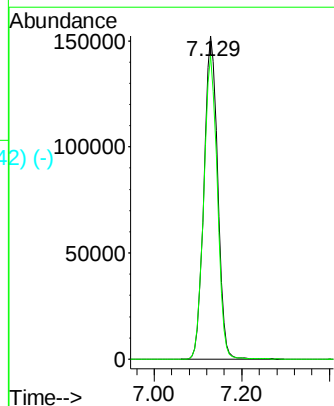
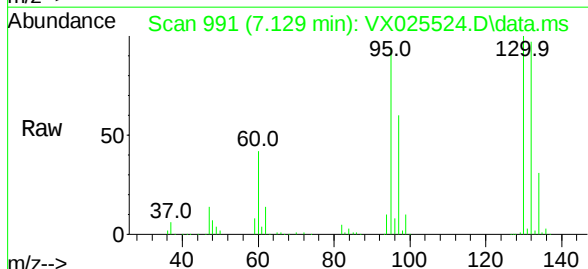
Acq: 04 Dec 2021 16:07

Tgt Ion:130 Resp: 328514

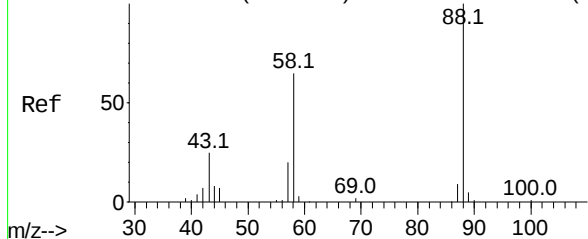
Ion Ratio Lower Upper

130 100

95 93.8 0.0 196.8



Abundance Scan 1078 (7.659 min): VX025183.D\data.ms (-10719-)



1,4-Dioxane

Concen: 12.55 ug/l

RT: 7.678 min Scan#

Delta R.T. 0.019 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20211202

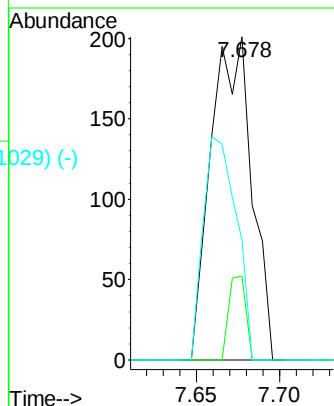
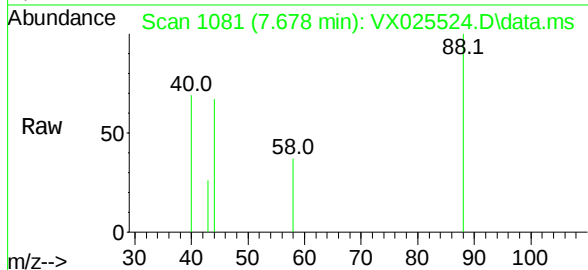
Tgt Ion: 88 Resp: 343

Ion Ratio Lower Upper

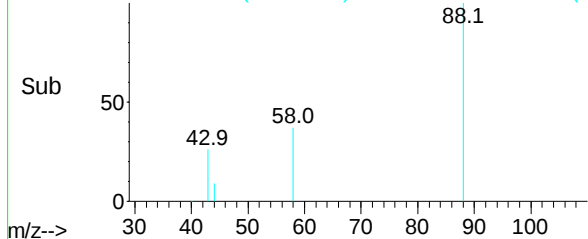
88 100

43 11.1 27.0 40.6#

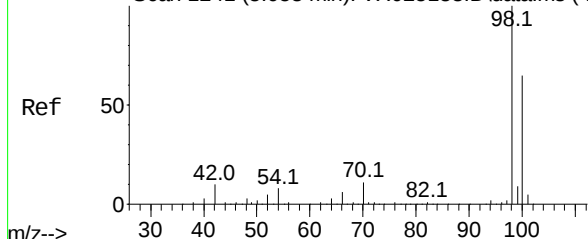
58 56.0 55.2 82.8



Abundance Scan 1081 (7.678 min): VX025524.D\data.ms (-1029-)



Abundance Scan 1241 (8.653 min): VX025183.D\data.ms (-12350-)



Toluene-d8

Concen: 50.22 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025524.D

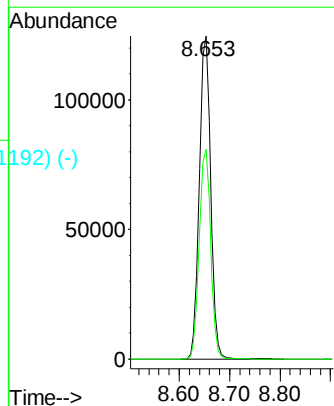
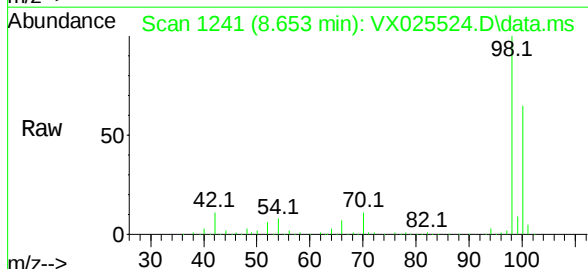
Acq: 04 Dec 2021 16:07

Tgt Ion: 98 Resp: 193420

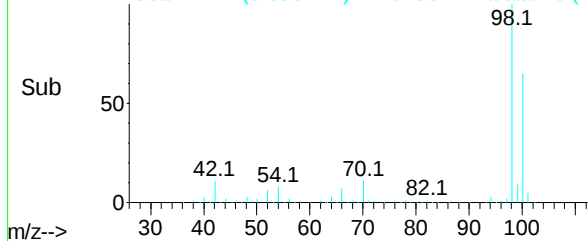
Ion Ratio Lower Upper

98 100

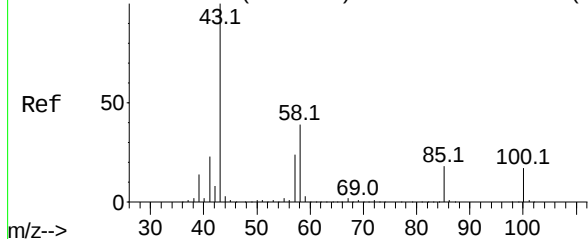
100 65.7 51.4 77.0



Abundance Scan 1241 (8.653 min): VX025524.D\data.ms (-1192-)



Abundance Scan 1228 (8.574 min): VX025183.D\data.ms (-1228)



4-Methyl-2-Pentanone

Concen: 0.50 ug/l

RT: 8.647 min Scan# 1228

Delta R.T. 0.073 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

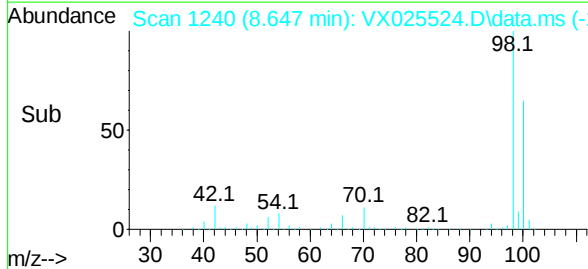
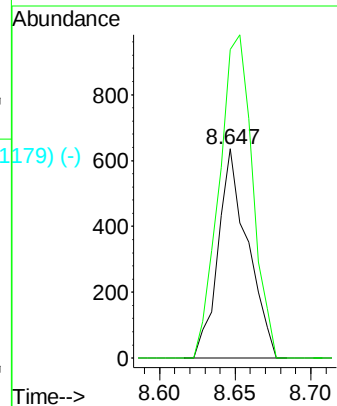
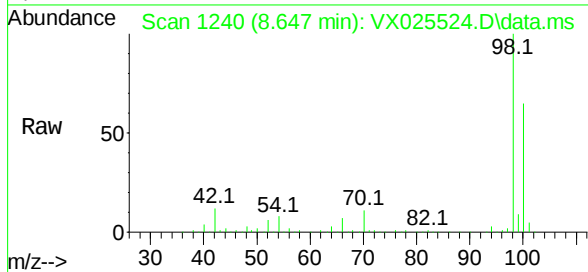
RE108D2-20211202

Tgt Ion: 43 Resp: 860

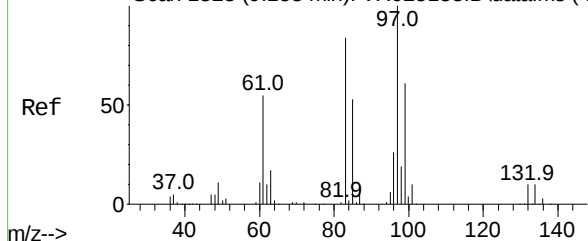
Ion Ratio Lower Upper

43 100

58 174.5 30.9 46.3#



Abundance Scan 1323 (9.153 min): VX025183.D\data.ms (-1323)



1,1,2-Trichloroethane

Concen: 0.68 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX025524.D

Acq: 04 Dec 2021 16:07

Tgt Ion: 97 Resp: 776

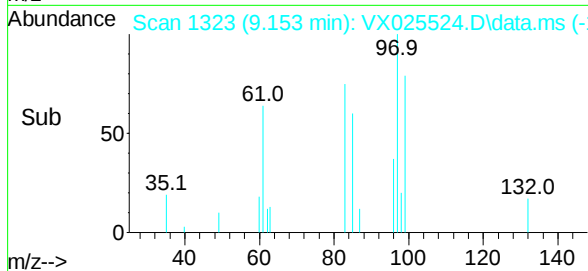
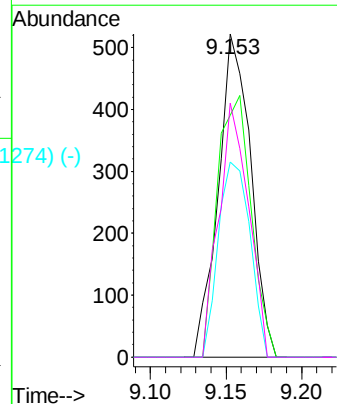
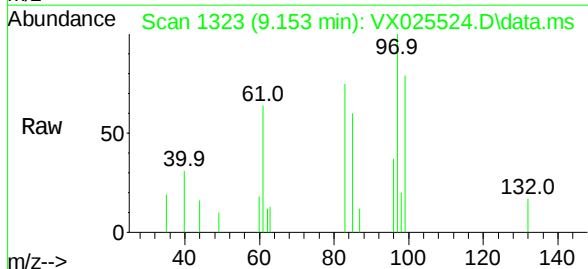
Ion Ratio Lower Upper

97 100

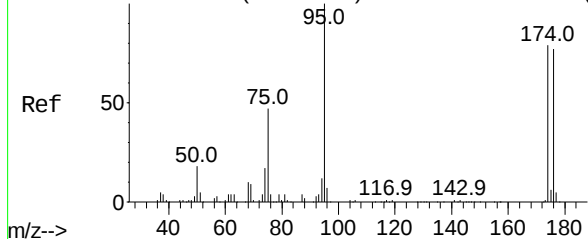
83 74.9 69.2 103.8

85 60.3 43.3 64.9

99 78.5 49.1 73.7#



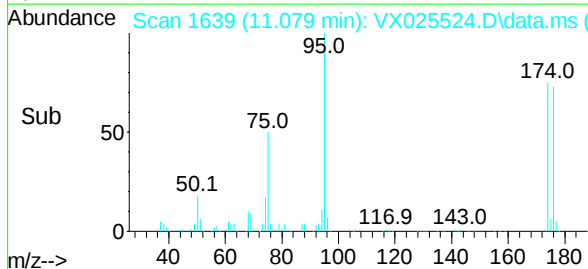
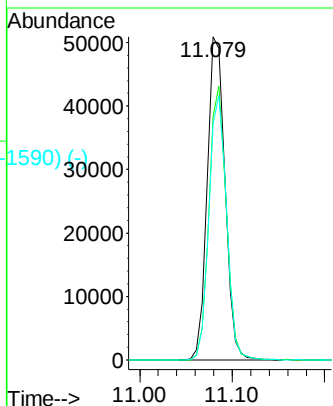
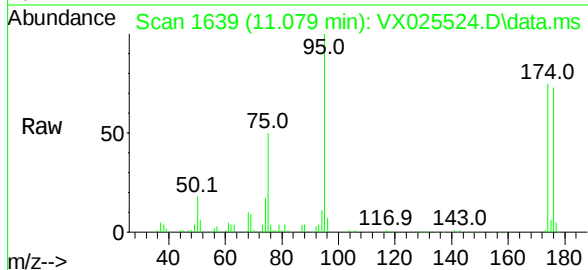
Abundance Scan 1639 (11.079 min): VX025183.D\data.ms (-1639)



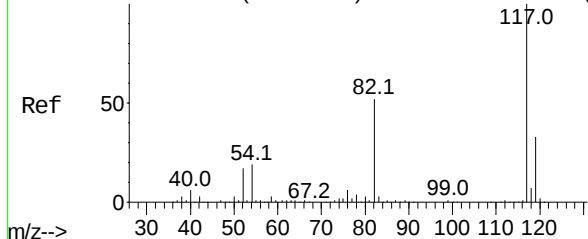
4-Bromofluorobenzene
Concen: 46.40 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20211202

Tgt Ion:	95	Resp:	67607
Ion	Ratio	Lower	Upper
95	100		
174	82.3	0.0	158.0
176	80.9	0.0	153.6

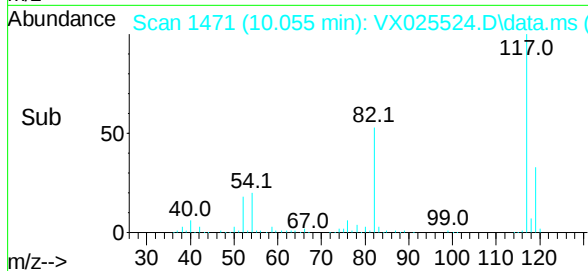
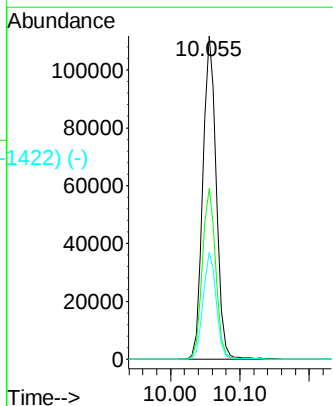
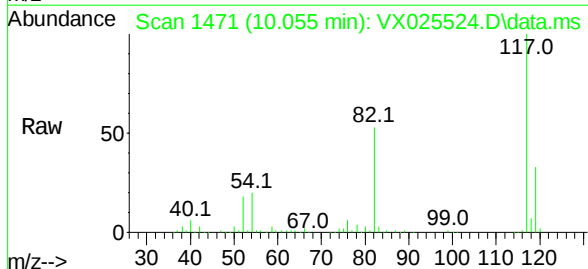


Abundance Scan 1471 (10.055 min): VX025183.D\data.ms (-1469)



Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Tgt Ion:	117	Resp:	149520
Ion	Ratio	Lower	Upper
117	100		
82	52.8	44.6	67.0
119	33.1	24.8	37.2



Abundance Scan 1794 (12.024 min): VX025183.D\data.ms (-1759) (-)

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.024 min Scan# 1759

Delta R.T. 0.000 min

Lab File: VX025524.D

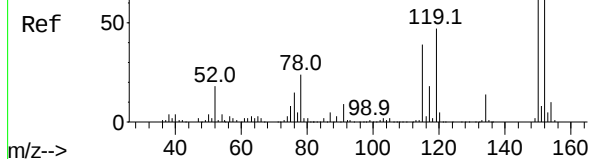
Acq: 04 Dec 2021 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20211202



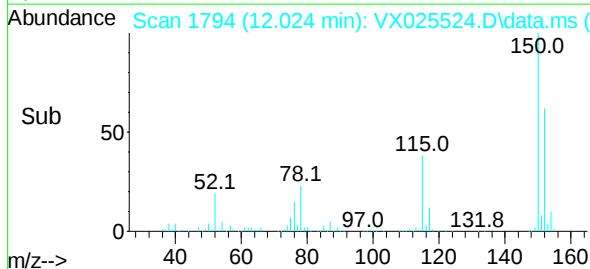
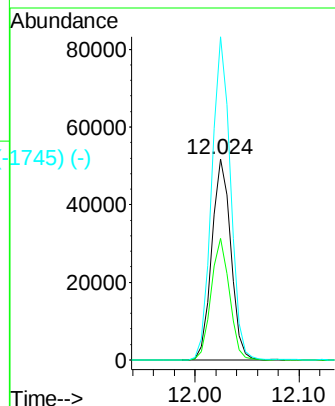
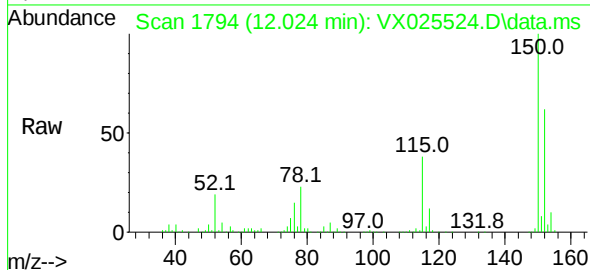
Tgt Ion:152 Resp: 65697

Ion Ratio Lower Upper

152 100

115 58.1 43.3 129.8

150 158.1 0.0 351.2



Abundance Scan 1666 (11.244 min): VX025183.D\data.ms (-1676) (-)

1,2,3-Trichloropropane

Concen: 24.69 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX025524.D

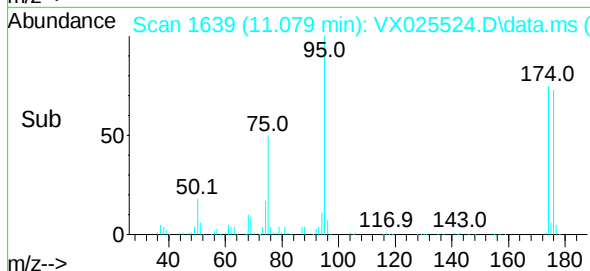
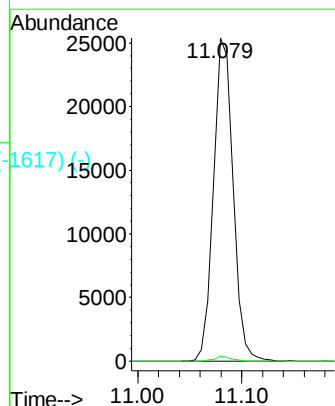
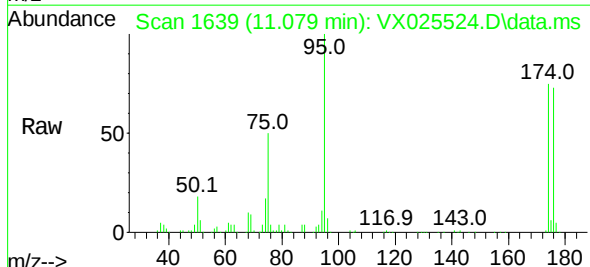
Acq: 04 Dec 2021 16:07

Tgt Ion: 75 Resp: 33216

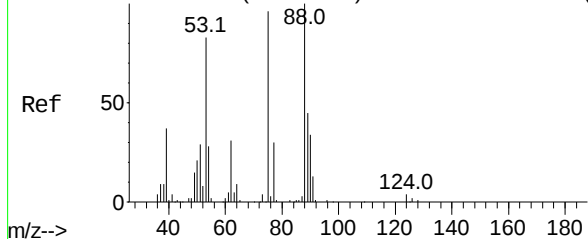
Ion Ratio Lower Upper

75 100

77 1.2 20.0 59.9#



Abundance Scan 1629 (11.018 min): VX025183.D\data.ms (-1629)



trans-1,4-Dichloro-2-butene
Concen: 62.20 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX025524.D
Acq: 04 Dec 2021 16:07

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20211202

Tgt Ion: 75 Resp: 33216
Ion Ratio Lower Upper
75 100
53 0.0 81.9 122.9#
89 0.0 38.2 57.2#

