

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012474.D
 Acq On : 18 Sep 2019 15:24
 Operator : JC/SP
 Sample : K4858-03DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20190909DL

Quant Time: Sep 19 06:01:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	182028	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283769	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	120132	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.49	113	85345	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	8.71	98	332310	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
62) 4-Bromofluorobenzene	11.14	95	125785	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	

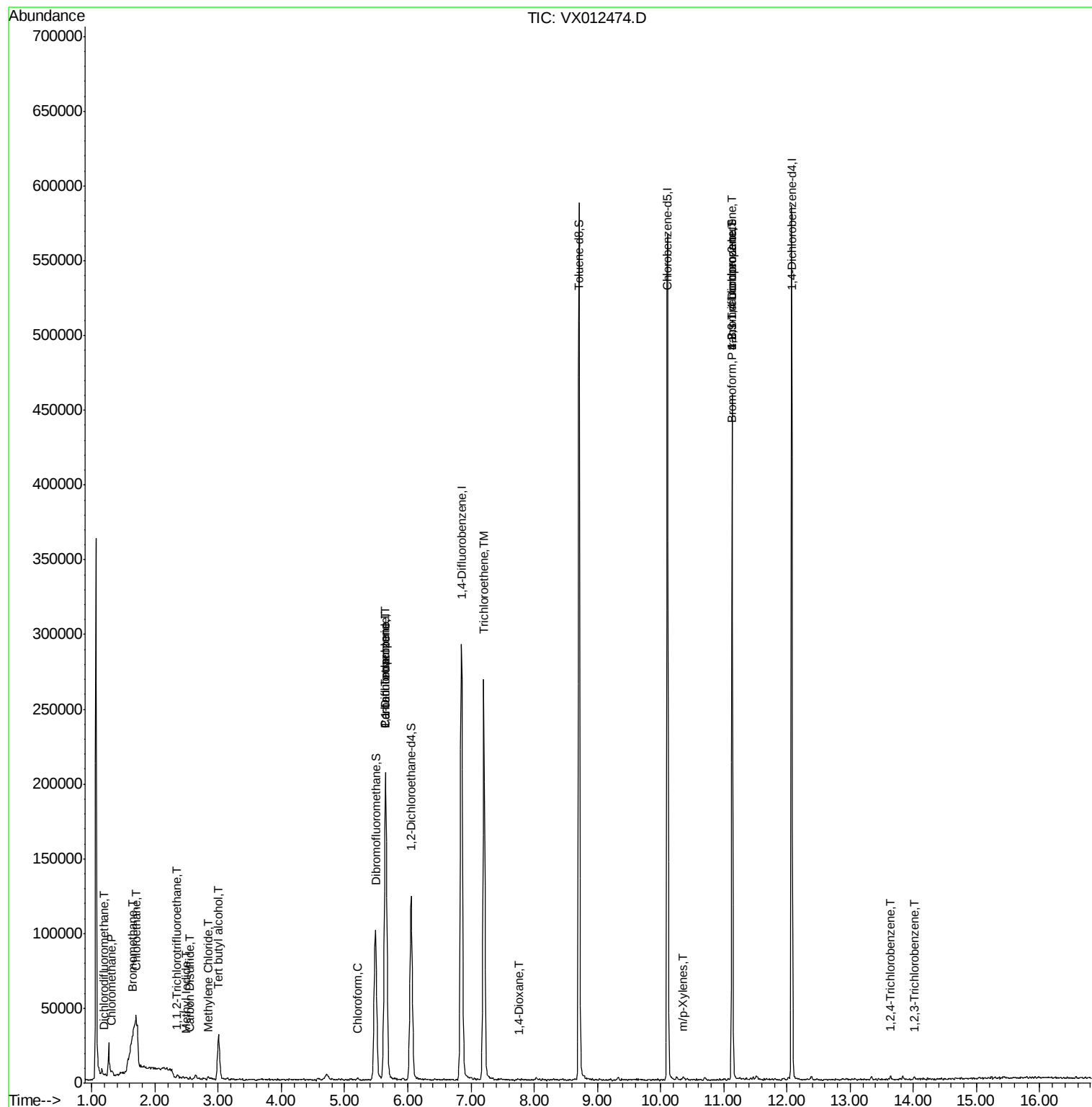
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	130	0.497	ug/l #	43
3) Chloromethane	1.31	50	473	0.473	ug/l #	51
5) Bromomethane	1.64	94	331	0.779	ug/l #	43
6) Chloroethane	1.70	64	337	0.398	ug/l #	88
9) 1,1,2-Trichlorotrifluoroet	2.35	101	751	0.523	ug/l #	79
10) Methyl Iodide	2.49	142	569	4.863	ug/l #	79
11) Tert butyl alcohol	3.01	59	19672	24.437	ug/l #	81
13) Acrolein	2.28	56	373	Below Cal	#	56
16) Acetone	2.44	43	1443	Below Cal	#	72
17) Carbon Disulfide	2.55	76	565	2.143	ug/l #	75
20) Methylene Chloride	2.84	84	822	0.521	ug/l	88
30) Chloroform	5.20	83	948	0.277	ug/l	100
36) 1,1-Dichloropropene	5.65	75	15084	8.746	ug/l #	53
38) Carbon Tetrachloride	5.64	117	19405	9.047	ug/l #	17
44) Trichloroethene	7.20	130	101552	70.393	ug/l	99
49) 1,4-Dioxane	7.76	88	19	0.349	ug/l #	1
68) m/p-Xylenes	10.36	106	550	0.213	ug/l	84
71) Bromoform	11.12	173	155	2.969	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	64677	25.720	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	64677	69.334	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.65	180	506	0.239	ug/l	88
96) 1,2,3-Trichlorobenzene	14.01	180	509	0.235	ug/l	85

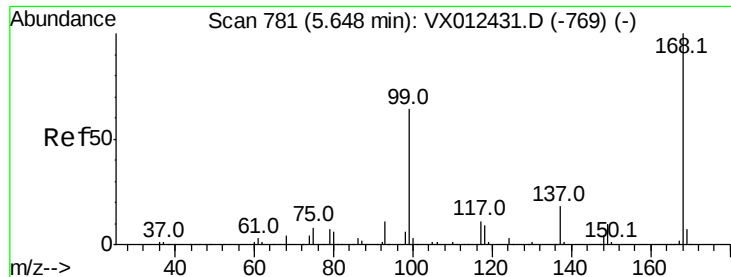
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\
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Quant Time: Sep 19 06:01:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

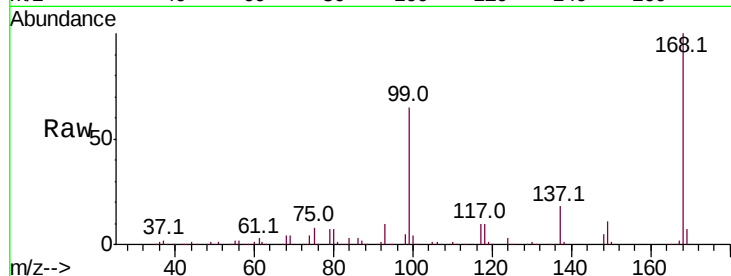
RE103D2-20190909DL

Tot Ion:168 Resp: 182028

Ion Ratio Lower Upper

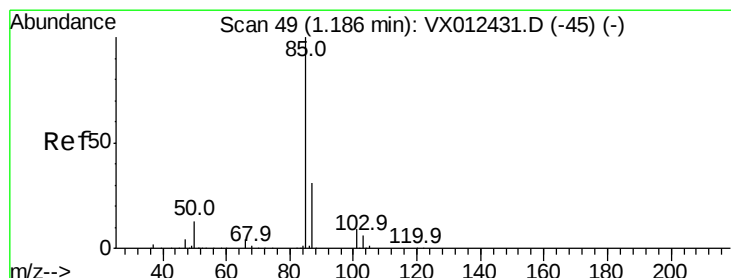
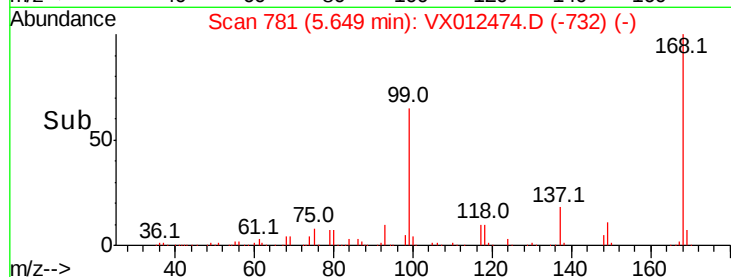
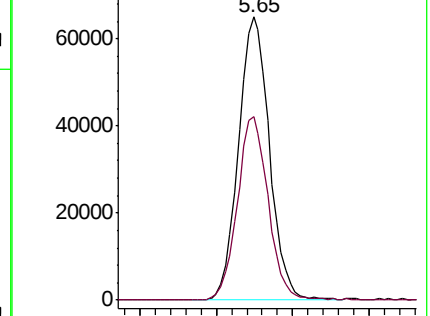
168 100

99 64.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.497 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012474.D

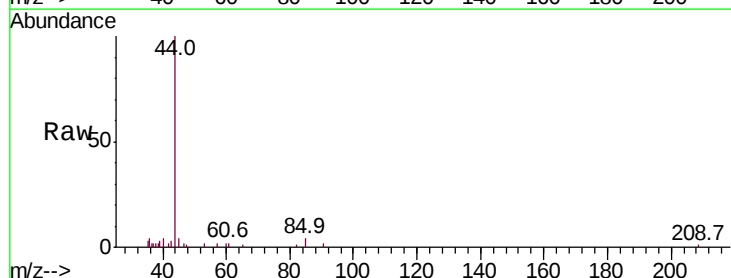
Acq: 18 Sep 2019 15:24

Tgt Ion: 85 Resp: 130

Ion Ratio Lower Upper

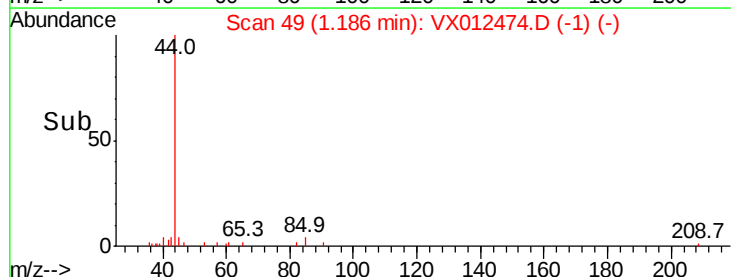
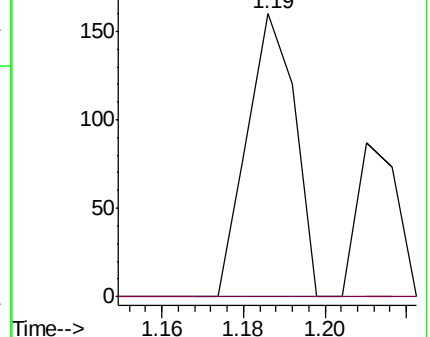
85 100

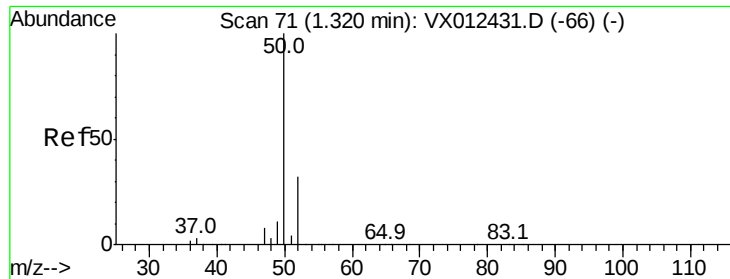
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.473 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

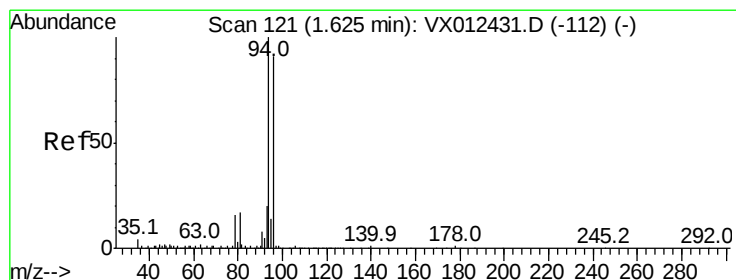
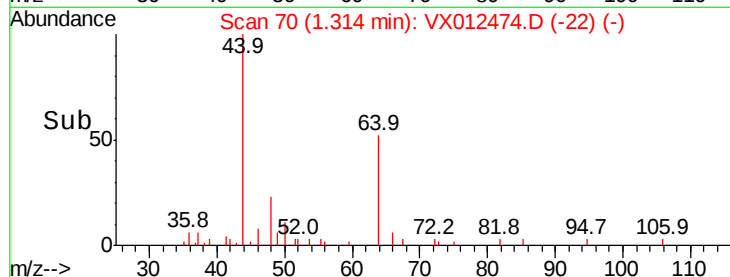
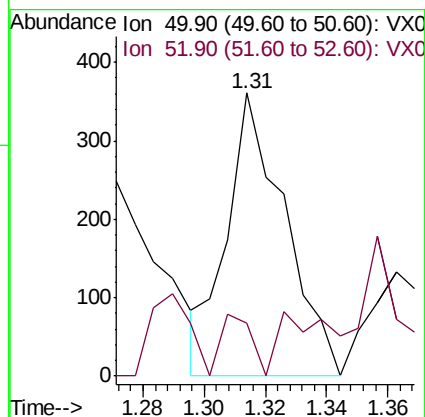
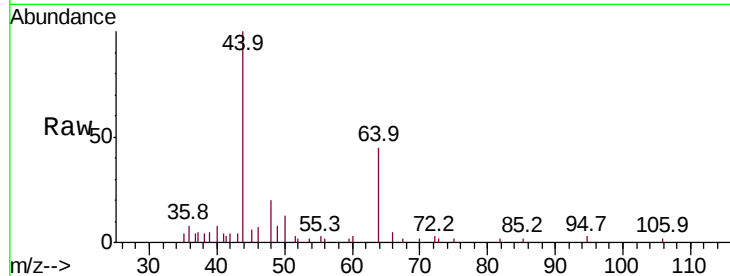
RE103D2-20190909DL

Tot Ion: 50 Resp: 473

Ion Ratio Lower Upper

50 100

52 4.7 25.7 38.5#



#5

Bromomethane

Concen: 0.779 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012474.D

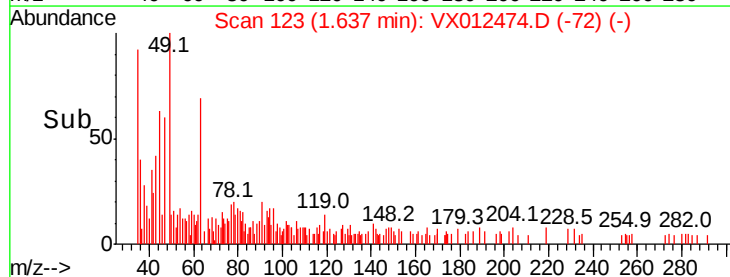
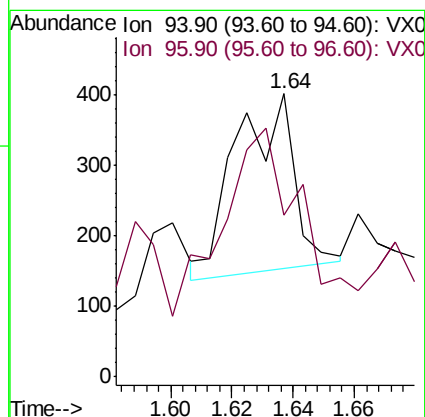
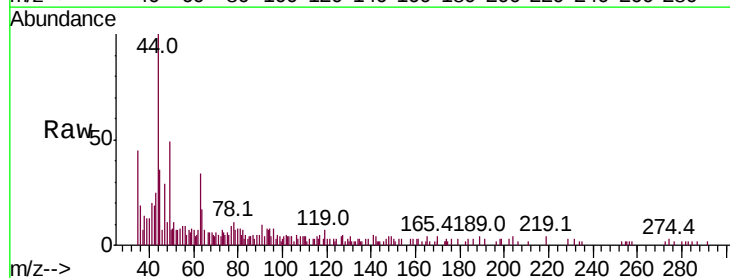
Acq: 18 Sep 2019 15:24

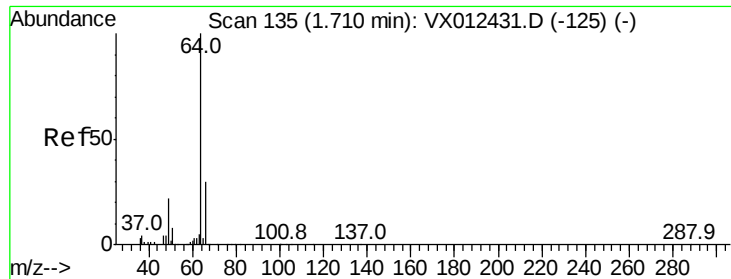
Tgt Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 37.4 72.8 109.2#





#6

Chloroethane

Concen: 0.398 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

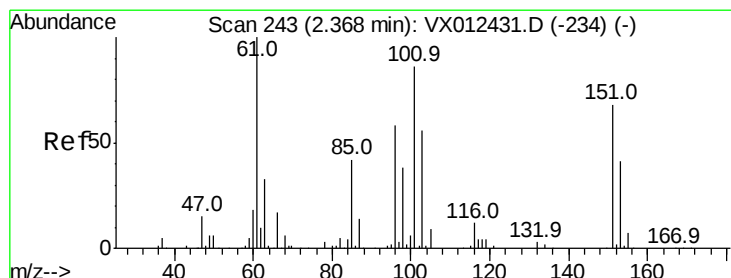
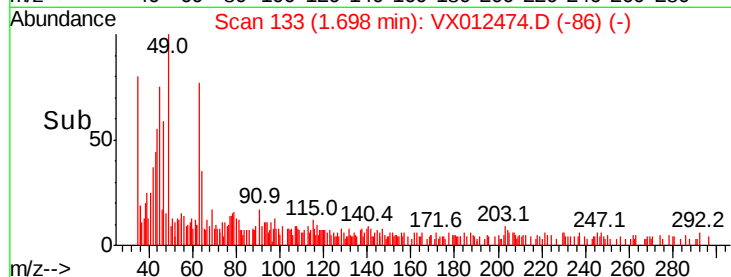
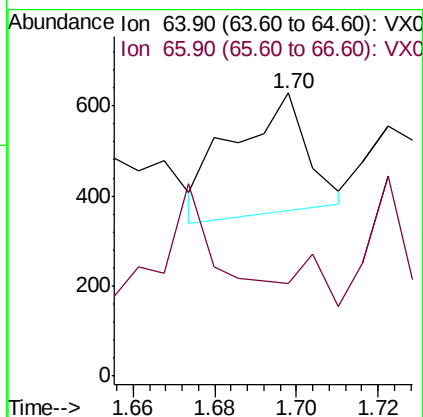
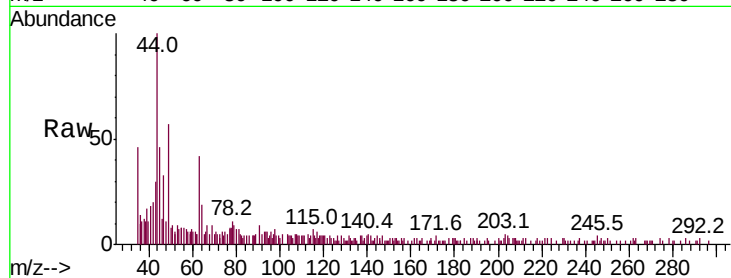
RE103D2-20190909DL

Tot Ion: 64 Resp: 337

Ion Ratio Lower Upper

64 100

66 23.6 24.0 36.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.523 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.02 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

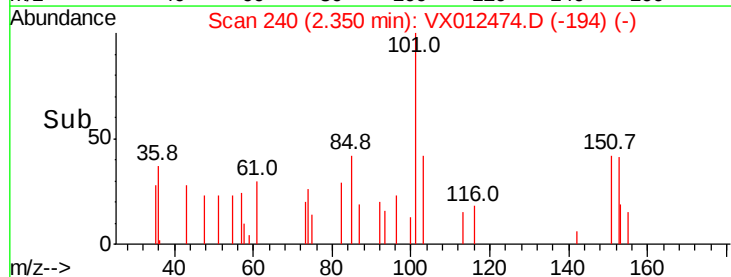
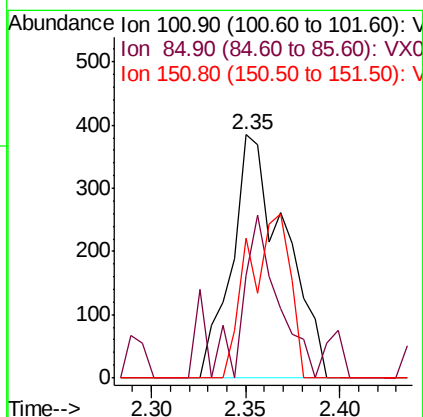
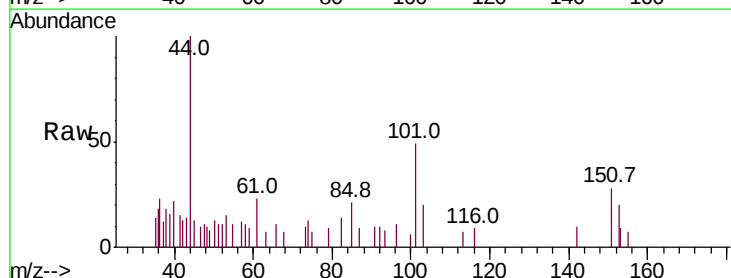
Tgt Ion: 101 Resp: 751

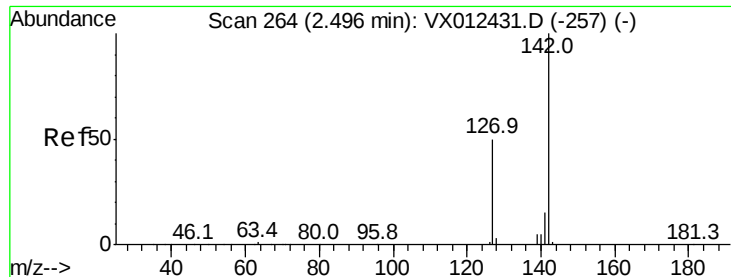
Ion Ratio Lower Upper

101 100

85 39.9 37.3 55.9

151 53.0 61.0 91.4#

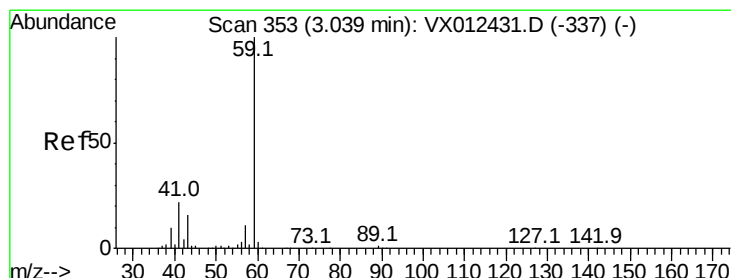
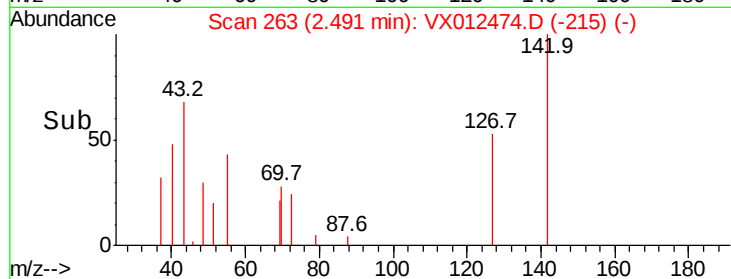
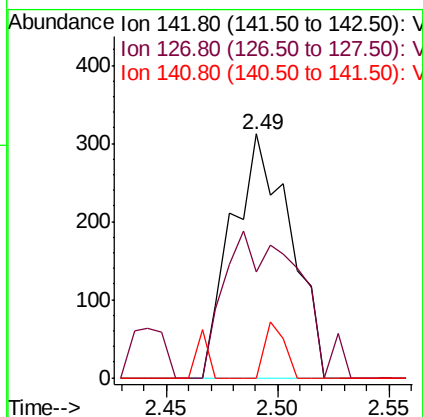
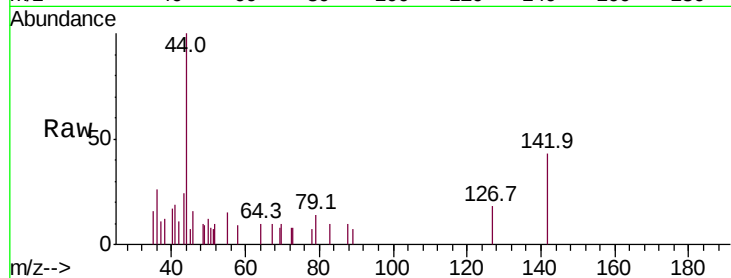




#10
Methyl Iodide
Concen: 4.863 ug/l
RT: 2.49 min Scan# 263
Delta R.T. -0.01 min
Lab File: VX012474.D
Acq: 18 Sep 2019 15:24

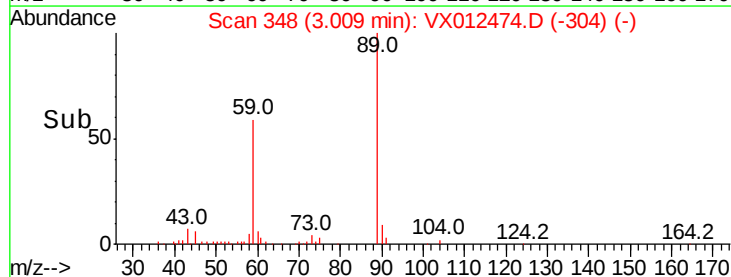
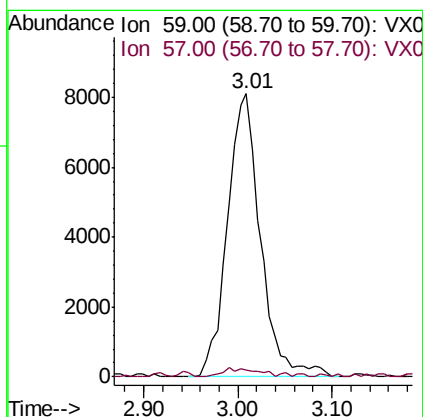
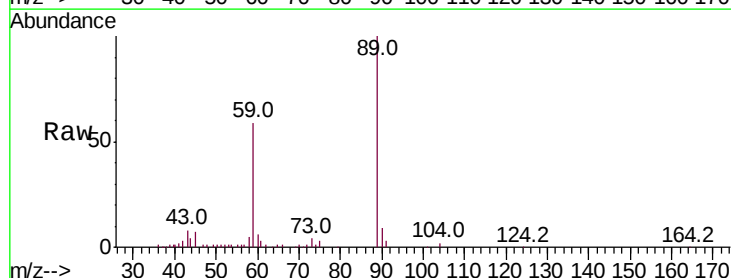
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20190909DL

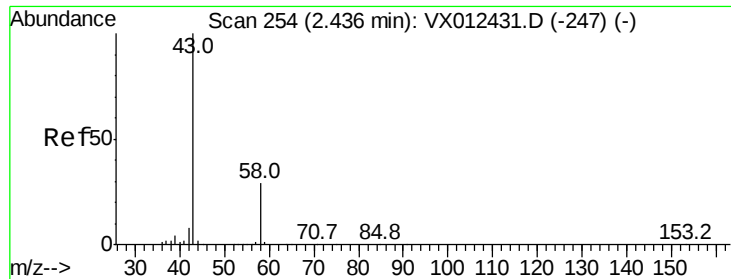
Tot Ion:142 Resp: 569
Ion Ratio Lower Upper
142 100
127 35.9 40.8 61.2#
141 7.7 12.1 18.1#



#11
Tert butyl alcohol
Concen: 24.437 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012474.D
Acq: 18 Sep 2019 15:24

Tgt Ion: 59 Resp: 19672
Ion Ratio Lower Upper
59 100
57 3.2 8.3 12.5#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

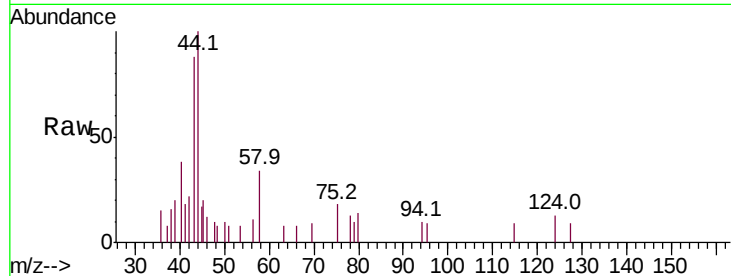
RE103D2-20190909DL

Tot Ion: 43 Resp: 1443

Ion Ratio Lower Upper

43 100

58 44.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

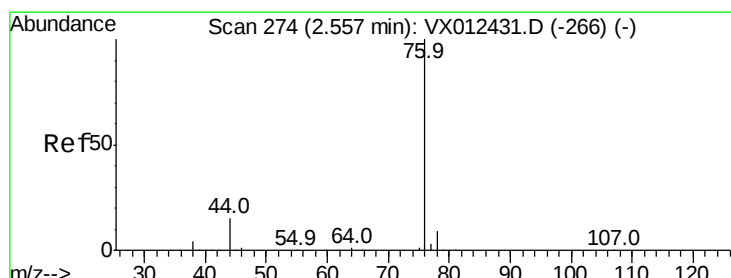
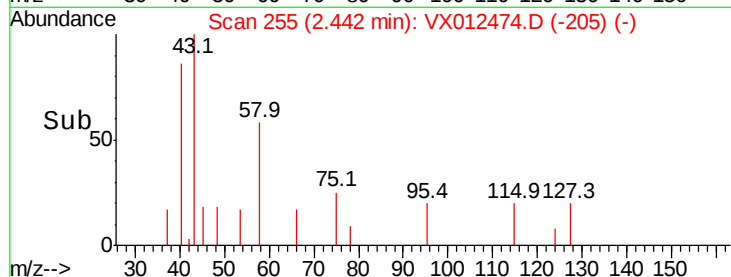
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: 2.143 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012474.D

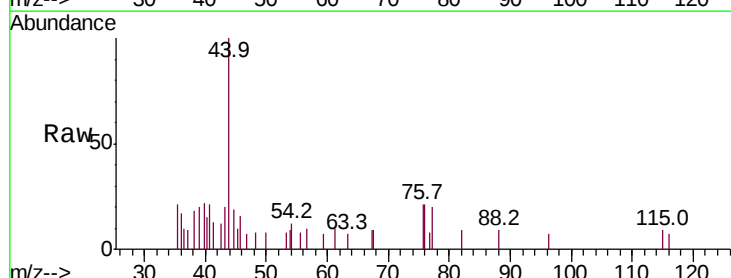
Acq: 18 Sep 2019 15:24

Tgt Ion: 76 Resp: 565

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

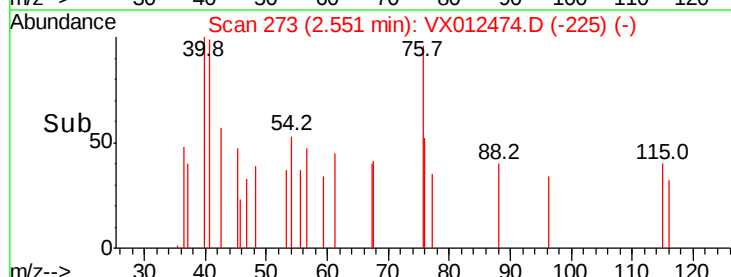
300

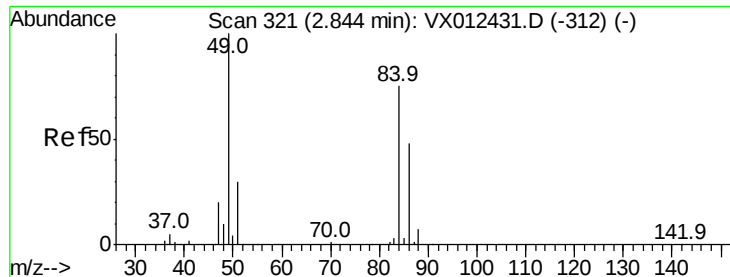
200

100

0

Time-->



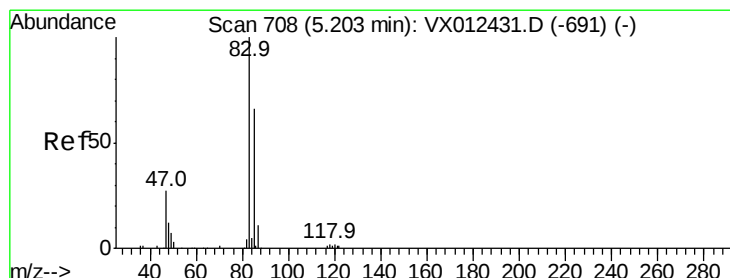
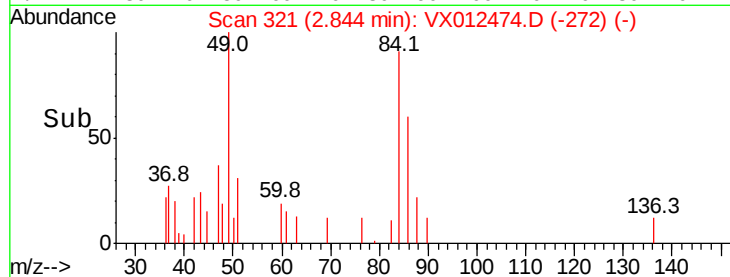
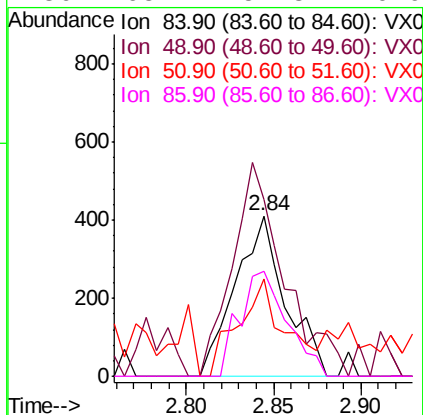
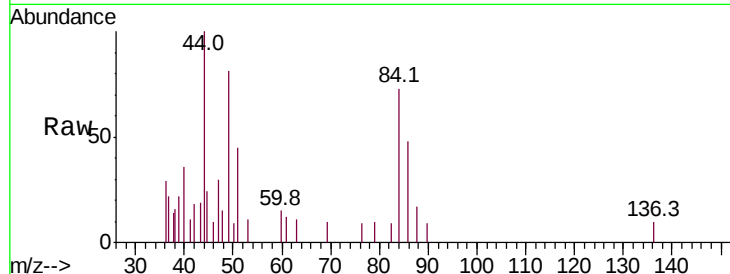


#20
Methvlene Chloride
Concen: 0.521 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012474.D
Acq: 18 Sep 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20190909DL

Tot Ion: 84 Resp: 822

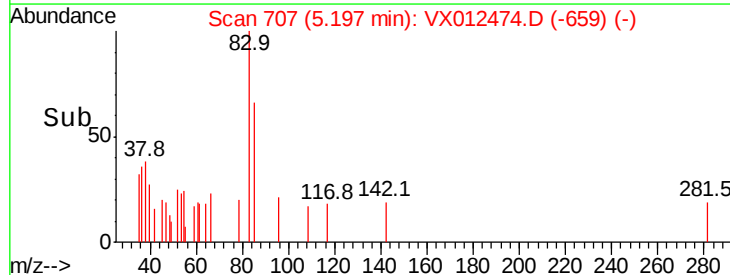
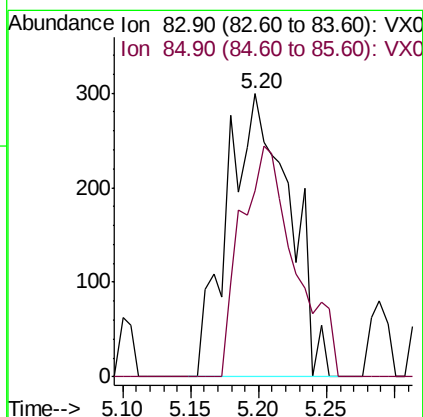
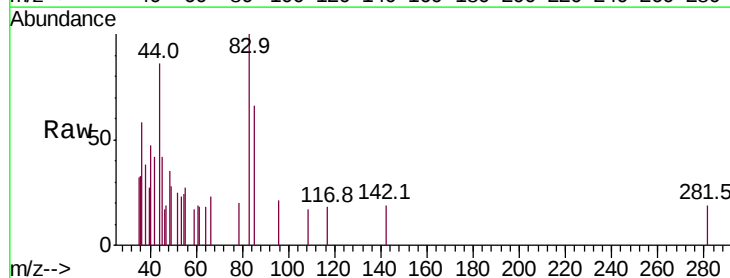
Ion	Ratio	Lower	Upper
84	100		
49	109.7	106.8	160.2
51	38.0	32.3	48.5
86	65.7	51.3	76.9

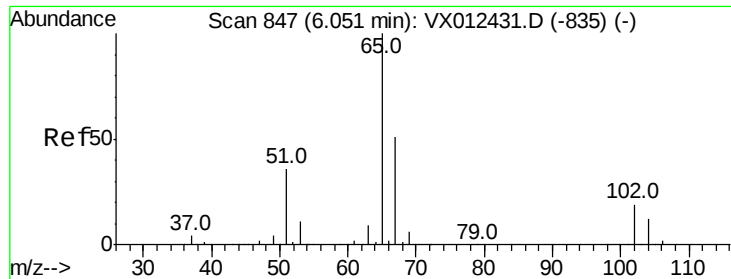


#30
Chloroform
Concen: 0.277 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.01 min
Lab File: VX012474.D
Acq: 18 Sep 2019 15:24

Tgt Ion: 83 Resp: 948

Ion	Ratio	Lower	Upper
83	100		
85	65.9	53.0	79.4





#33

1,2-Dichloroethane-d4

Concen: 46.048 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

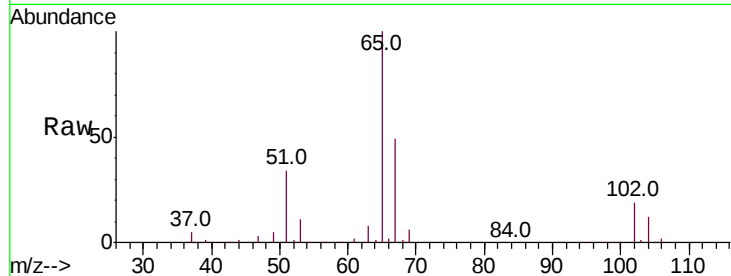
RE103D2-20190909DL

Tot Ion: 65 Resp: 120132

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

50000

40000

30000

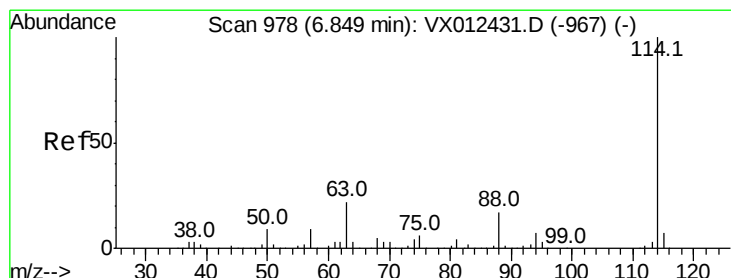
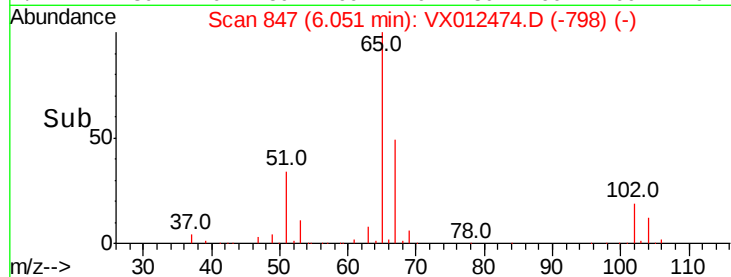
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

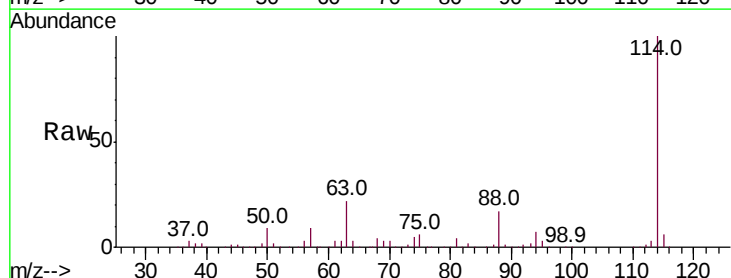
Tgt Ion:114 Resp: 283769

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

88 17.4 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

150000

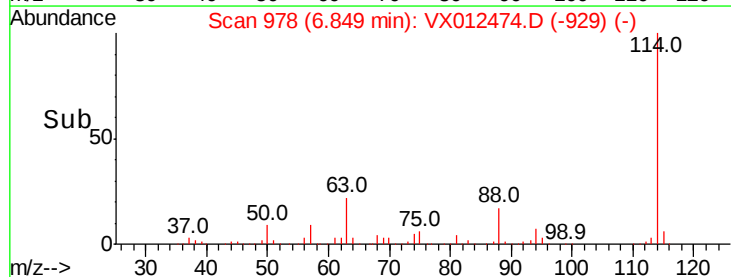
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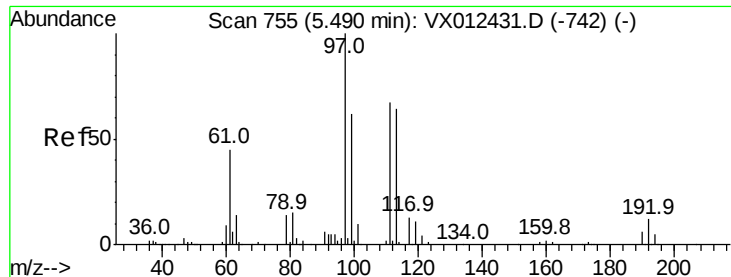
50000

0

Time-->

6.80 6.90





#35

Dibromofluoromethane

Concen: 49.690 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

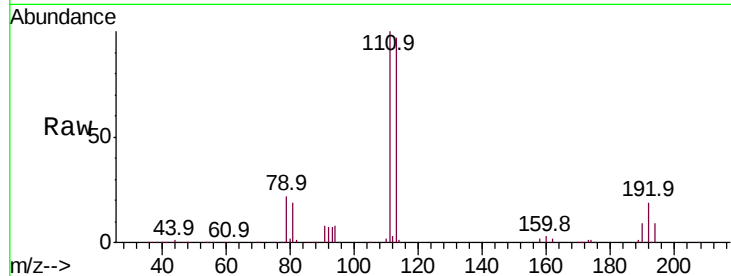
Tot Ion:113 Resp: 85345

Ion Ratio Lower Upper

113 100

111 104.5 83.4 125.2

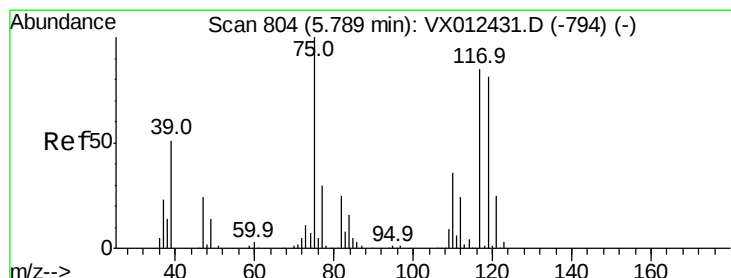
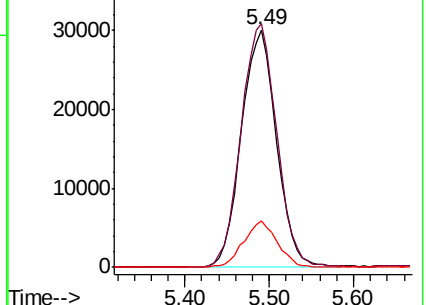
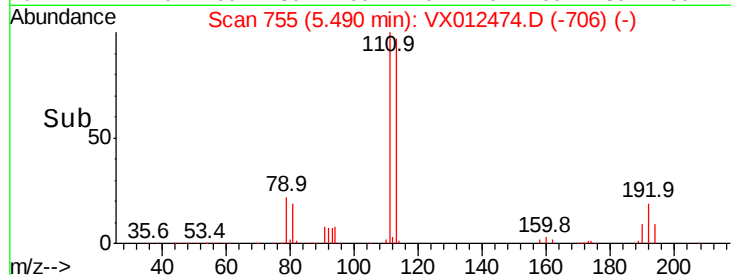
192 18.9 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 8.746 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

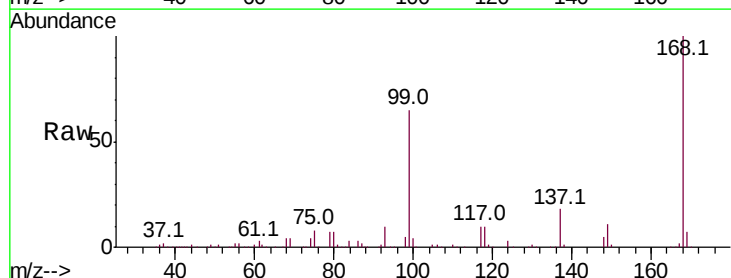
Tgt Ion: 75 Resp: 15084

Ion Ratio Lower Upper

75 100

110 10.9 16.7 50.0#

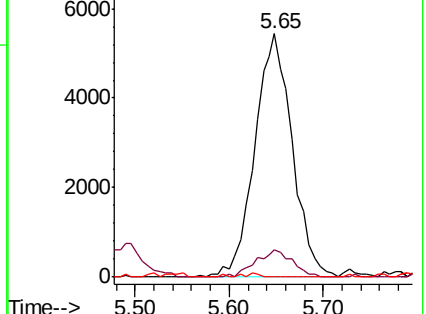
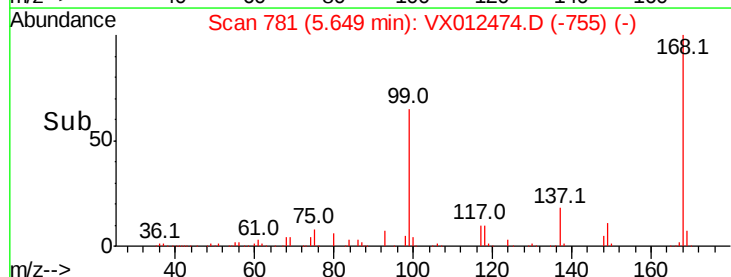
77 0.0 24.2 36.2#

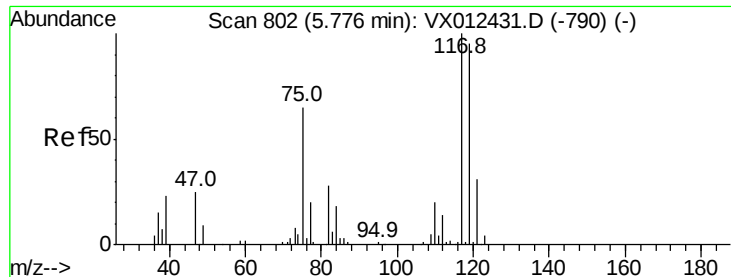


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.047 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

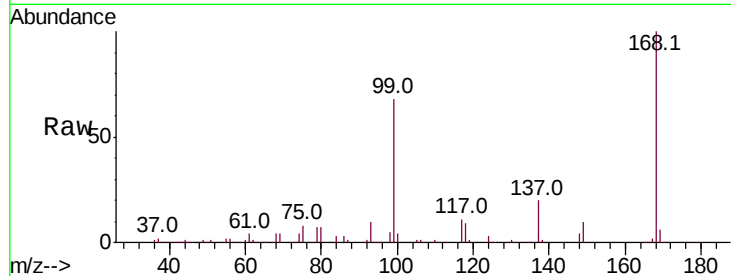
Tot Ion:117 Resp: 19405

Ion Ratio Lower Upper

117 100

119 6.3 75.7 113.5#

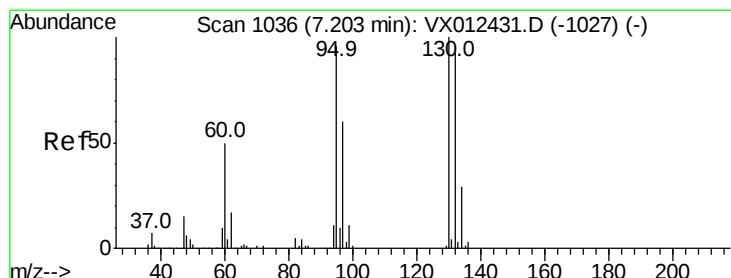
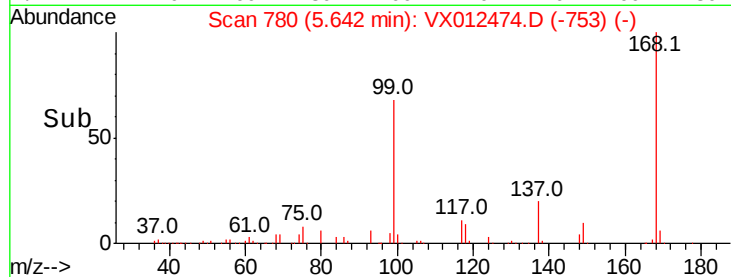
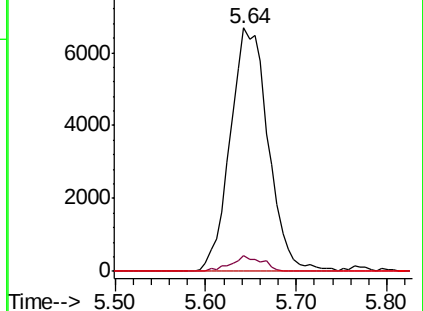
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 70.393 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX012474.D

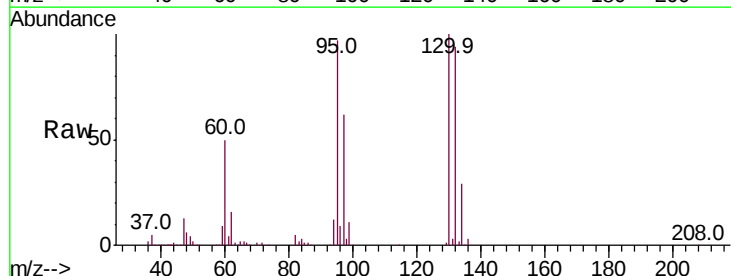
Acq: 18 Sep 2019 15:24

Tgt Ion:130 Resp: 101552

Ion Ratio Lower Upper

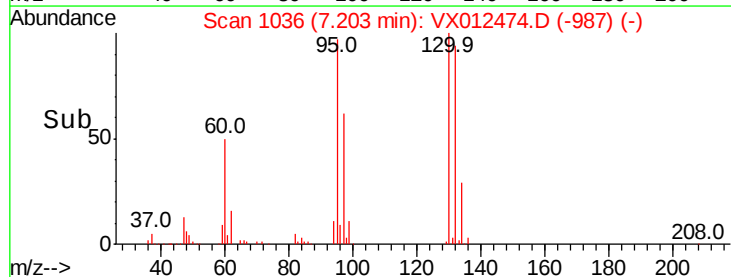
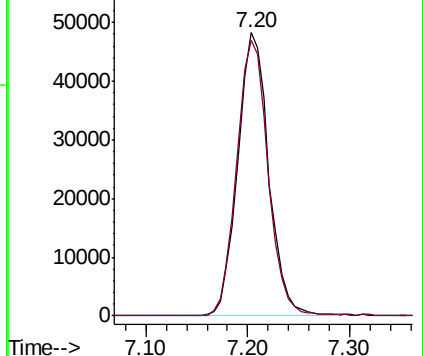
130 100

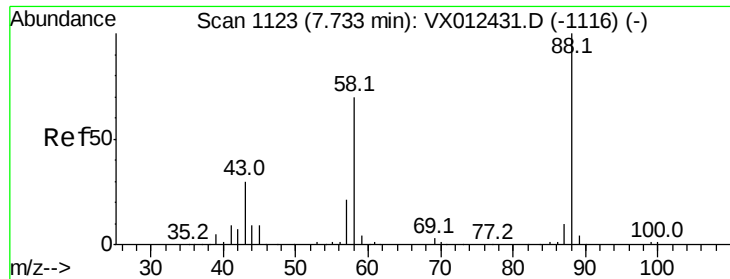
95 97.2 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.349 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

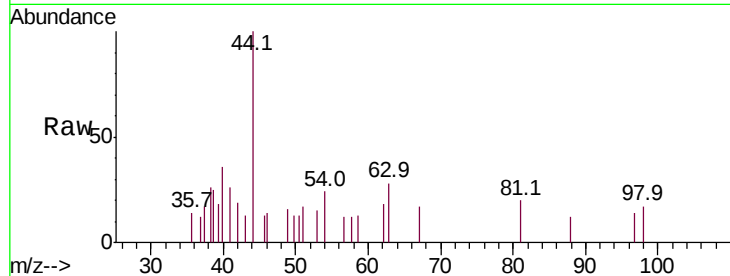
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 942.1 29.4 44.0#

58 984.2 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200

150

100

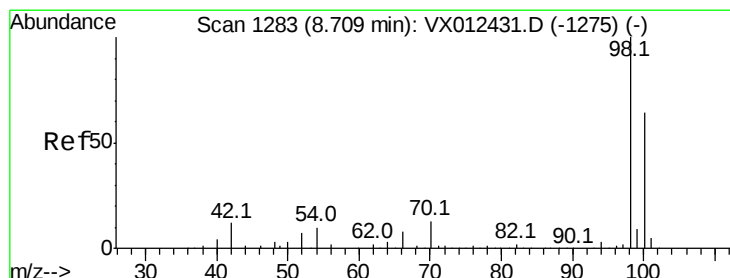
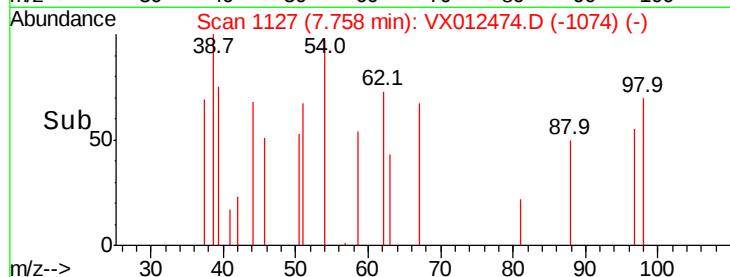
50

0

7.74 7.75 7.76 7.77

7.76

Time-->



#50

Toluene-d8

Concen: 52.272 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012474.D

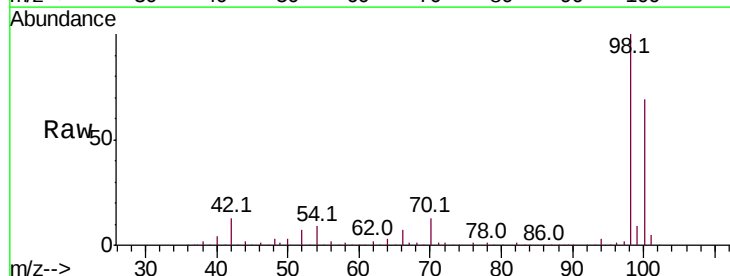
Acq: 18 Sep 2019 15:24

Tgt Ion: 98 Resp: 332310

Ion Ratio Lower Upper

98 100

100 67.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

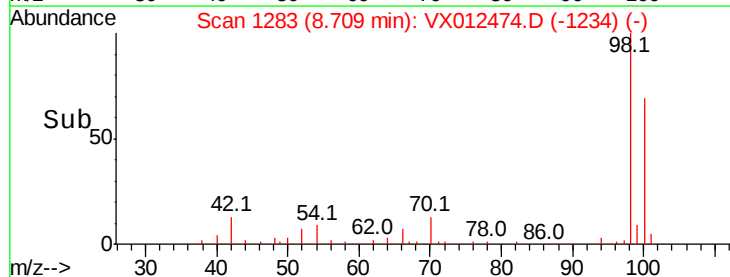
50000

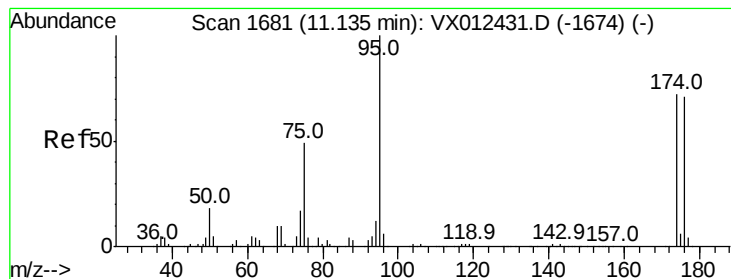
0

8.60 8.70 8.80

8.71

Time-->





#62

4-Bromofluorobenzene

Concen: 47.653 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

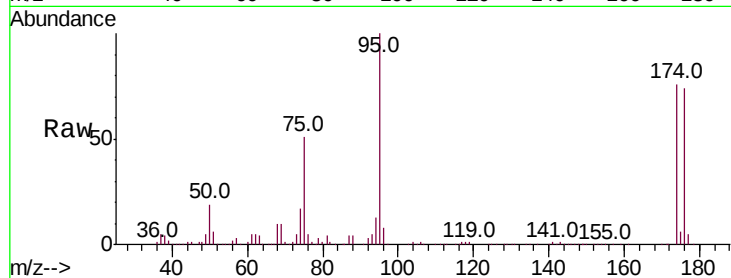
Tot Ion: 95 Resp: 125785

Ion Ratio Lower Upper

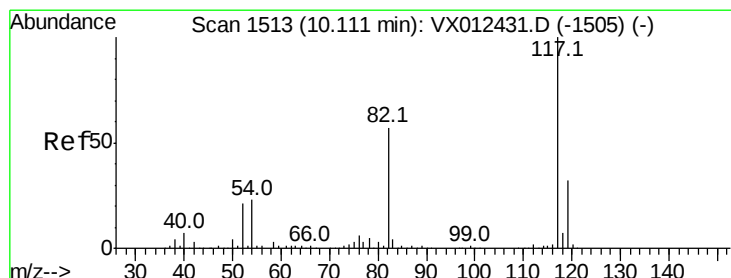
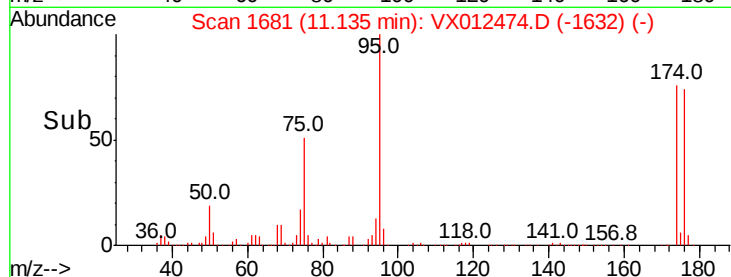
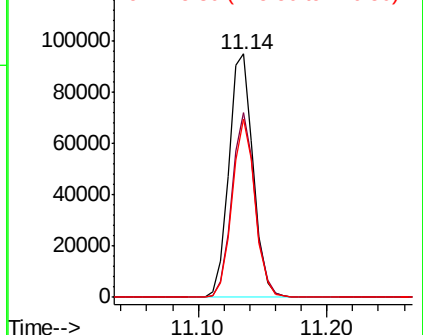
95 100

174 72.6 0.0 140.0

176 69.4 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

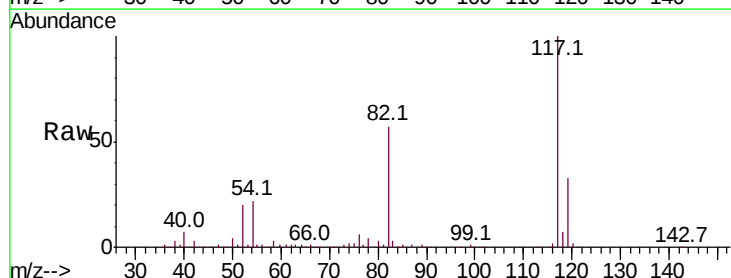
Tgt Ion: 117 Resp: 250018

Ion Ratio Lower Upper

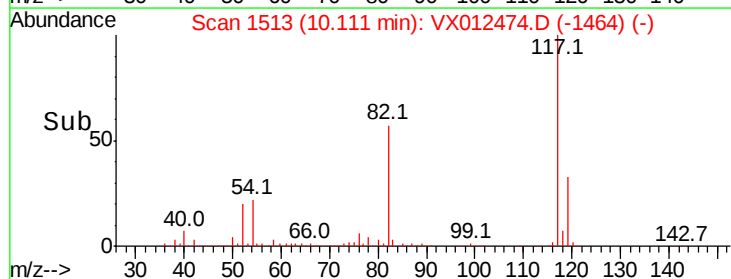
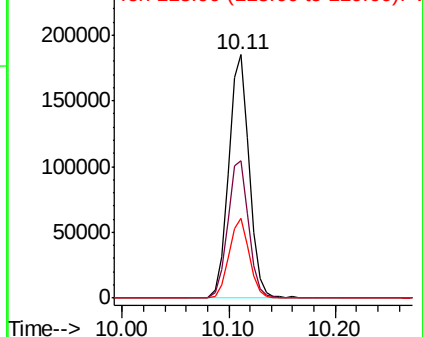
117 100

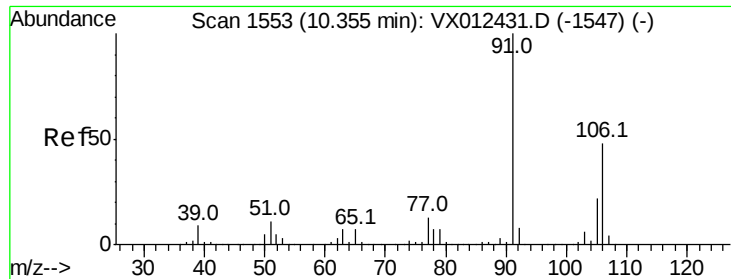
82 56.7 45.9 68.9

119 32.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xvlenes

Concen: 0.213 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

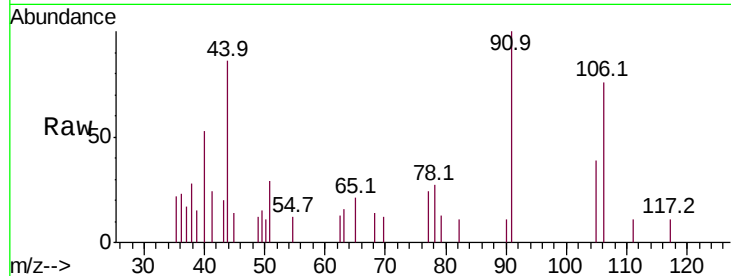
RE103D2-20190909DL

Tot Ion:106 Resp: 550

Ion Ratio Lower Upper

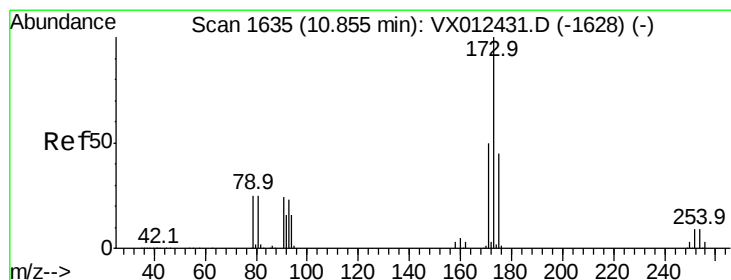
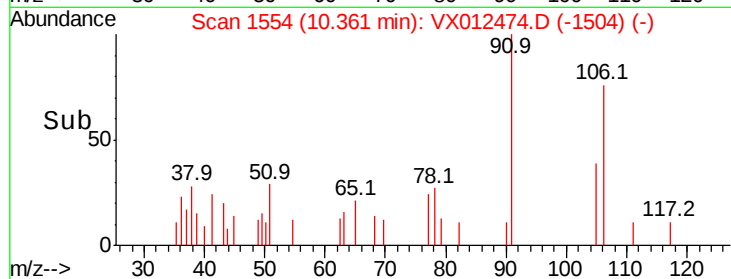
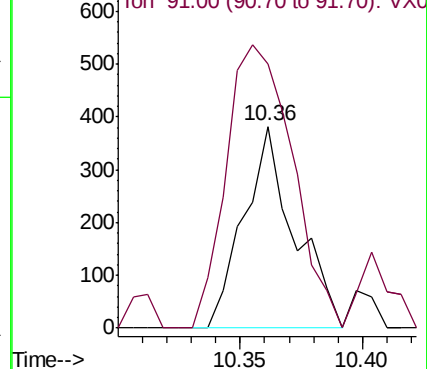
106 100

91 183.8 166.6 250.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#71

Bromoform

Concen: 2.969 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

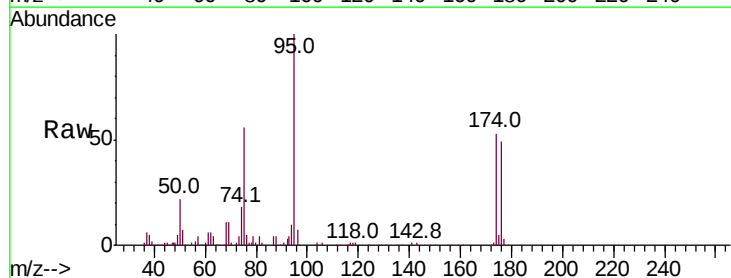
Tgt Ion:173 Resp: 155

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

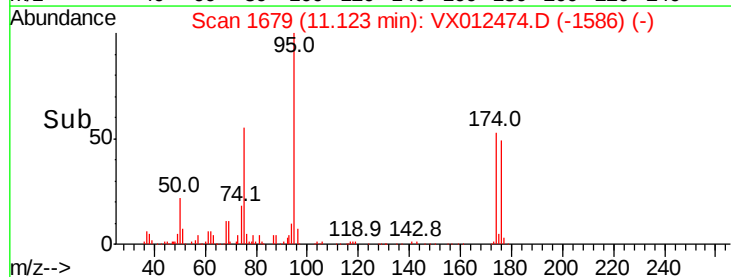
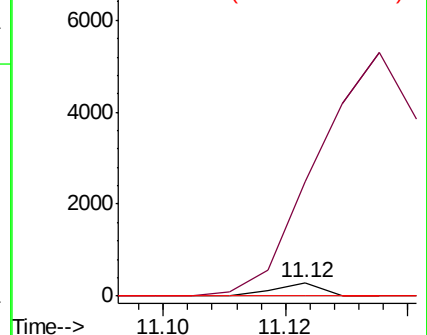
254 0.0 0.1 0.1#

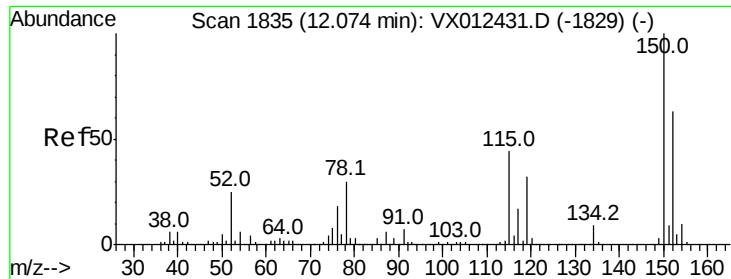


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

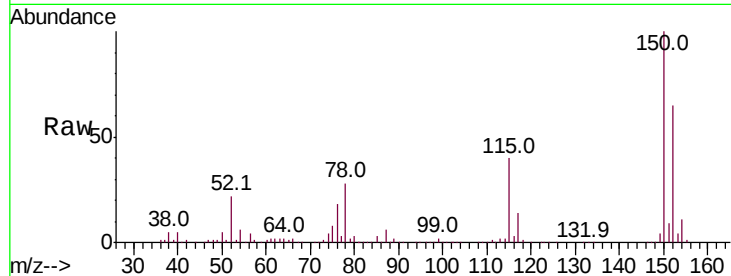
Tot Ion:152 Resp: 109473

Ion Ratio Lower Upper

152 100

115 62.2 44.1 132.3

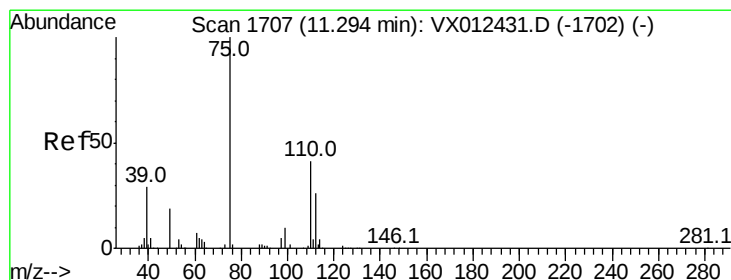
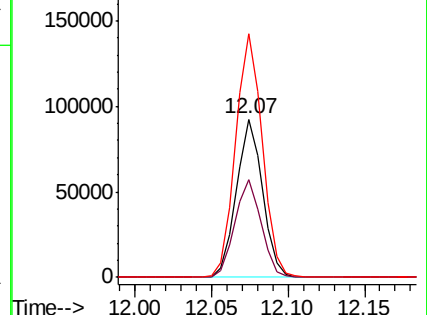
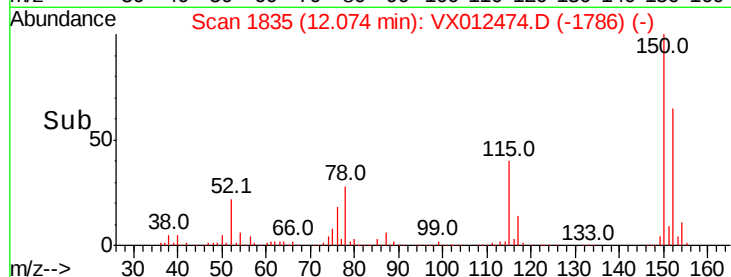
150 157.1 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.720 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012474.D

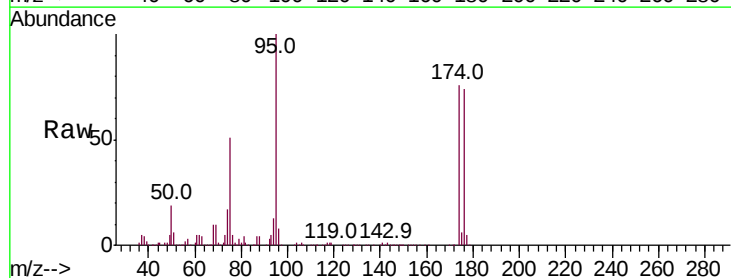
Acq: 18 Sep 2019 15:24

Tgt Ion: 75 Resp: 64677

Ion Ratio Lower Upper

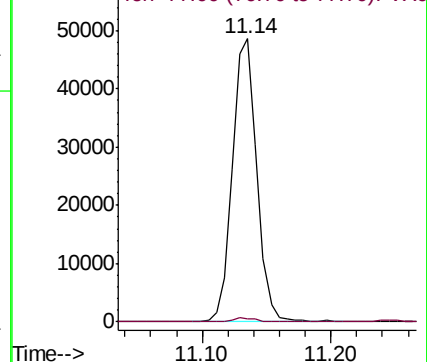
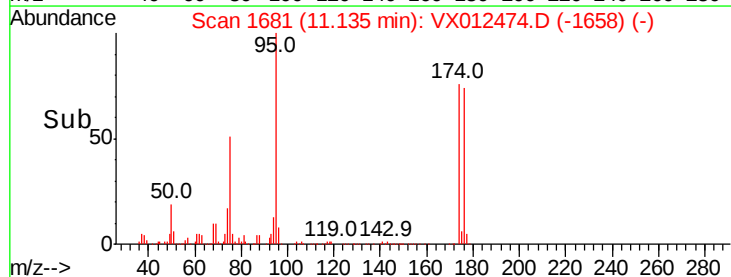
75 100

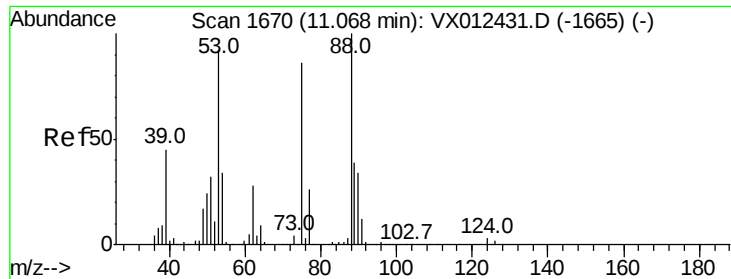
77 1.4 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.334 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20190909DL

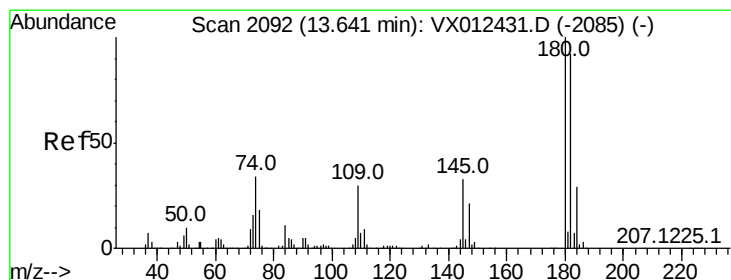
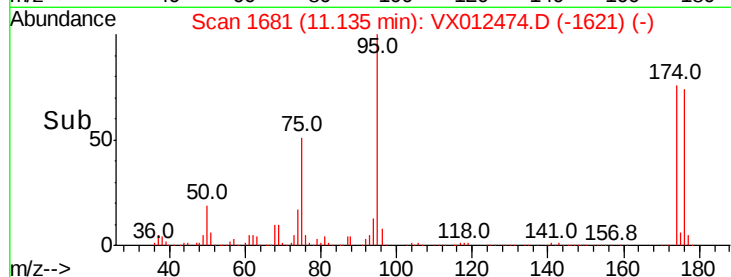
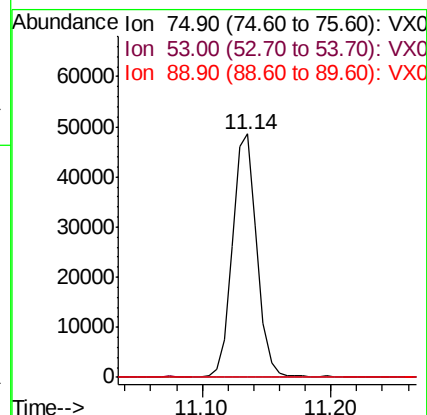
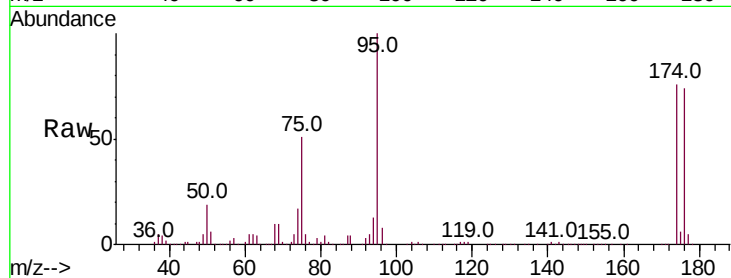
Tot Ion: 75 Resp: 64677

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#



#93

1,2,4-Trichlorobenzene

Concen: 0.239 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX012474.D

Acq: 18 Sep 2019 15:24

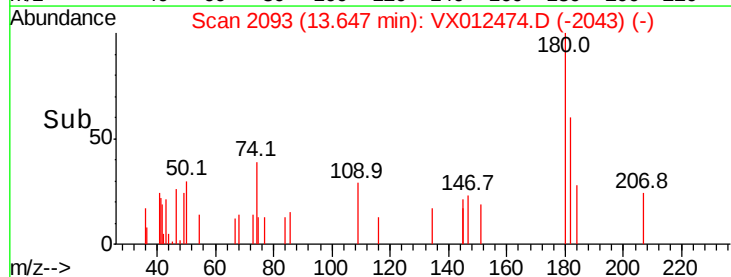
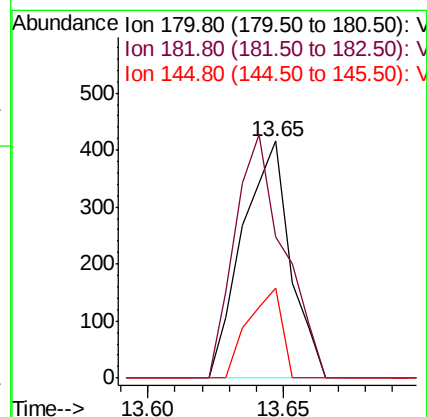
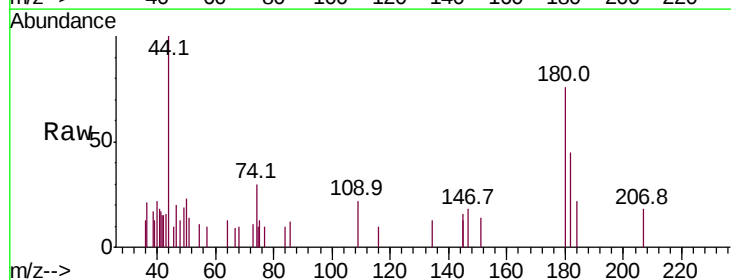
Tgt Ion:180 Resp: 506

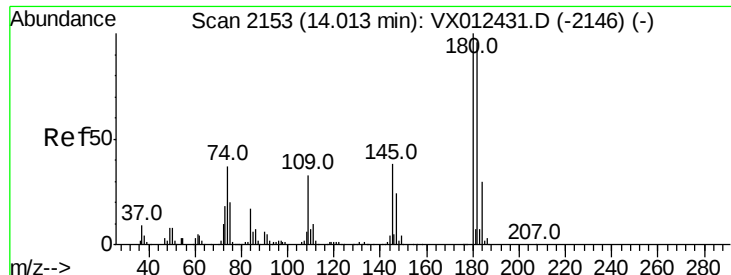
Ion Ratio Lower Upper

180 100

182 105.7 47.0 141.0

145 26.7 16.8 50.4





#96
 1,2,3-Trichlorobenzene
 Concen: 0.235 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX012474.D
 Acq: 18 Sep 2019 15:24

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20190909DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.2	47.1	141.3
145	30.5	18.0	54.0

