

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012472.D
 Acq On : 18 Sep 2019 14:37
 Operator : JC/SP
 Sample : K4858-18DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20190910DL

Quant Time: Sep 19 06:01:13 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	190215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	300505	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	93579	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127283	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
35) Dibromofluoromethane	5.49	113	89904	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
50) Toluene-d8	8.71	98	343455	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	11.14	95	118223	42.29	ug/l	0.00
Spiked Amount			Recovery	=	84.58%	

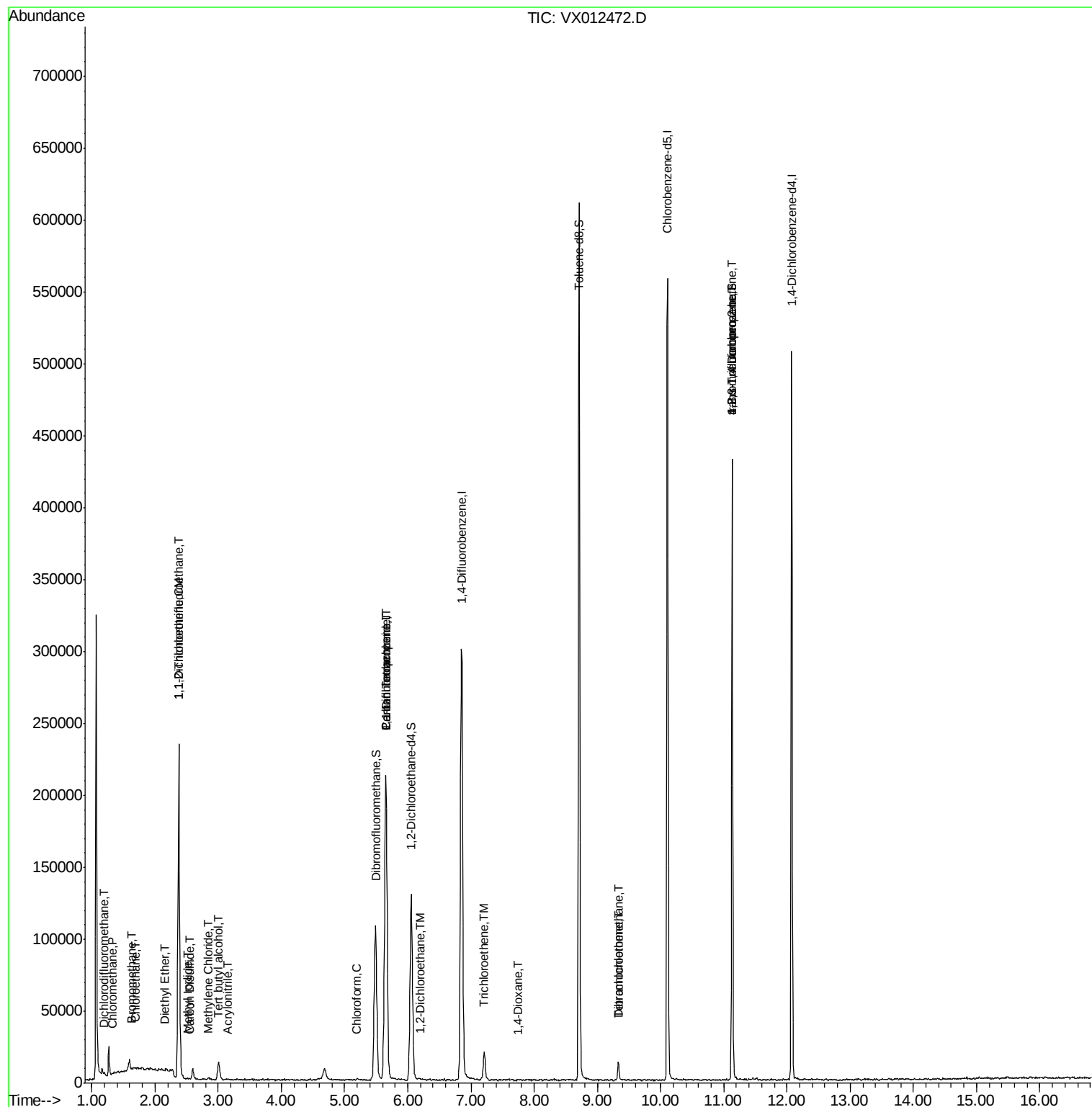
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	215	0.559	ug/l	89
3) Chloromethane	1.31	50	429	0.410	ug/l #	8
5) Bromomethane	1.64	94	151	0.340	ug/l	90
6) Chloroethane	1.70	64	1116	1.262	ug/l #	47
8) Diethyl Ether	2.17	74	232	0.248	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	2.37	101	89578	59.754	ug/l	98
10) Methyl Iodide	2.51	142	267	4.631	ug/l #	65
11) Tert butyl alcohol	3.00	59	7669	5.346	ug/l #	75
12) 1,1-Dichloroethene	2.37	96	881	0.737	ug/l #	55
13) Acrolein	2.28	56	273	Below Cal	#	74
15) Acrylonitrile	3.14	53	304	0.257	ug/l #	59
16) Acetone	2.44	43	1021	Below Cal	#	77
17) Carbon Disulfide	2.55	76	211	1.927	ug/l #	75
20) Methylene Chloride	2.84	84	505	0.306	ug/l #	73
30) Chloroform	5.19	83	831	0.232	ug/l #	64
36) 1,1-Dichloropropene	5.65	75	16278	8.913	ug/l #	53
38) Carbon Tetrachloride	5.65	117	20692	9.110	ug/l #	15
42) 1,2-Dichloroethane	6.20	62	619	0.230	ug/l #	75
44) Trichloroethene	7.21	130	7818	5.117	ug/l	95
49) 1,4-Dioxane	7.74	88	57	0.987	ug/l #	22
60) Dibromochloromethane	9.33	129	2459	1.252	ug/l #	11
64) Tetrachloroethene	9.33	164	2399	2.130	ug/l #	85
76) 1,2,3-Trichloropropane	11.14	75	59811	27.824	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	59811	74.755	ug/l #	8

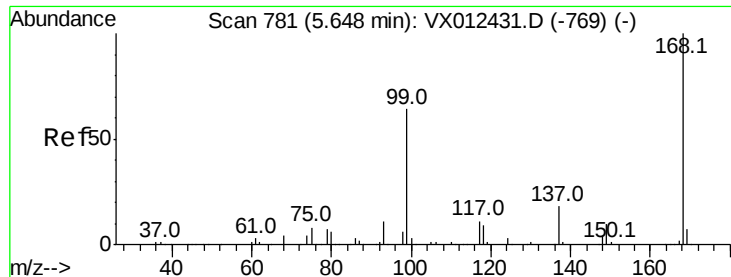
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

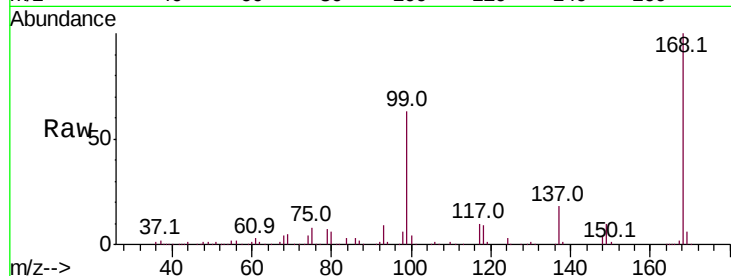
RE131D3-20190910DL

Tot Ion:168 Resp: 190215

Ion Ratio Lower Upper

168 100

99 63.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

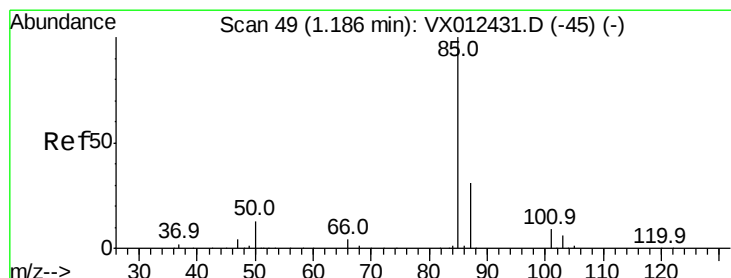
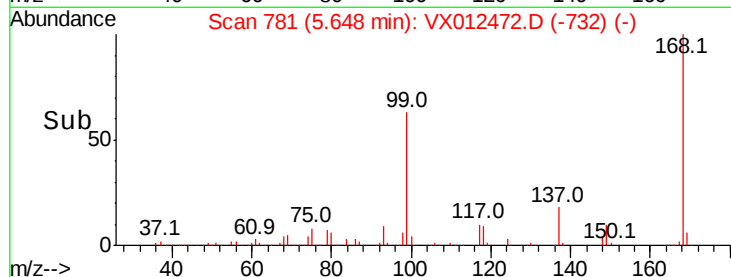
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.559 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012472.D

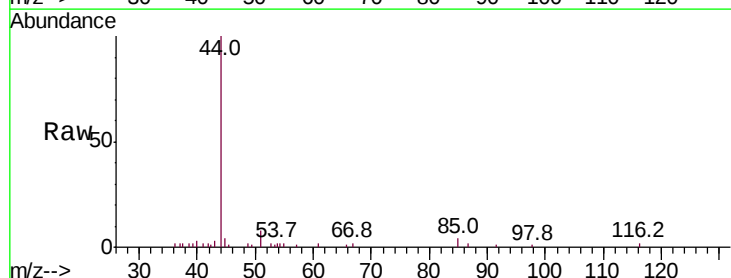
Acq: 18 Sep 2019 14:37

Tgt Ion: 85 Resp: 215

Ion Ratio Lower Upper

85 100

87 37.5 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

200

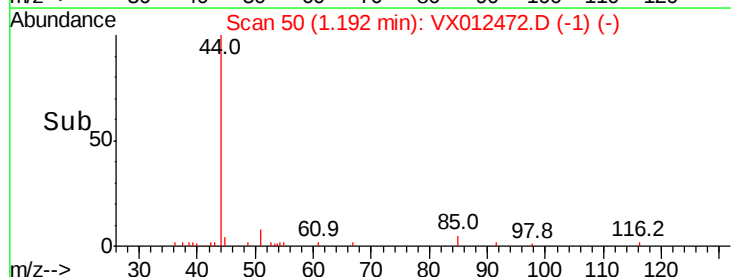
150

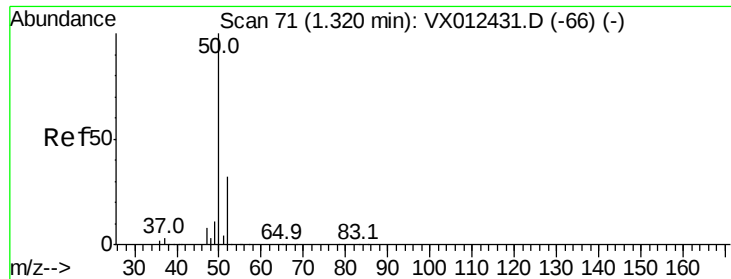
100

50

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 0.410 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

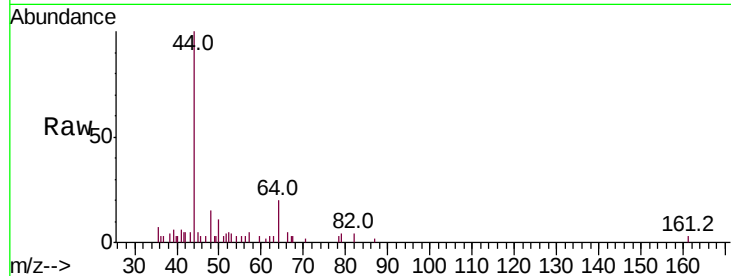
RE131D3-20190910DL

Tot Ion: 50 Resp: 429

Ion Ratio Lower Upper

50 100

52 83.6 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

250

200

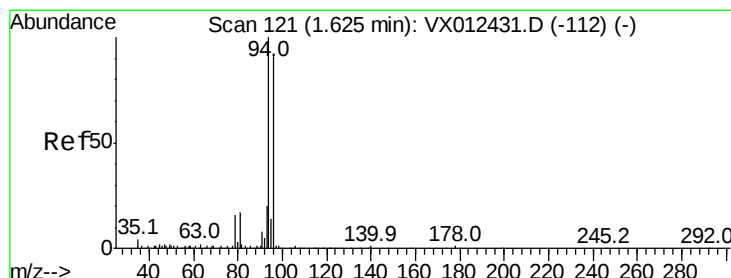
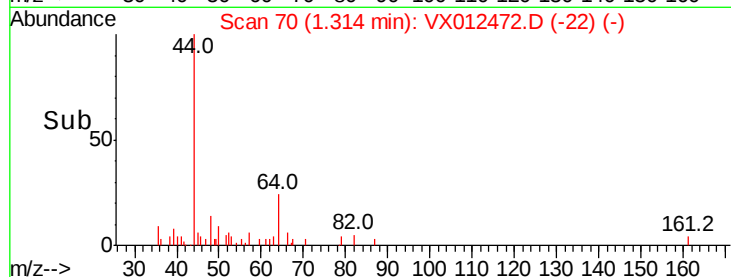
150

100

50

0

Time-->



#5

Bromomethane

Concen: 0.340 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012472.D

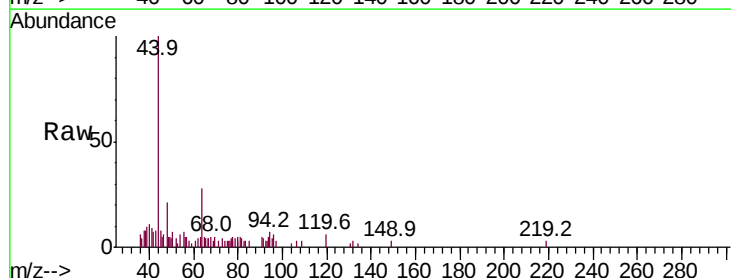
Acq: 18 Sep 2019 14:37

Tgt Ion: 94 Resp: 151

Ion Ratio Lower Upper

94 100

96 81.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

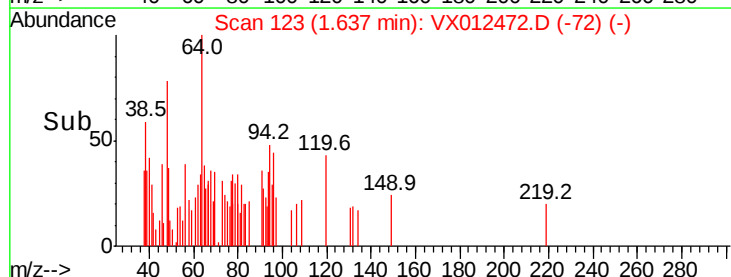
150

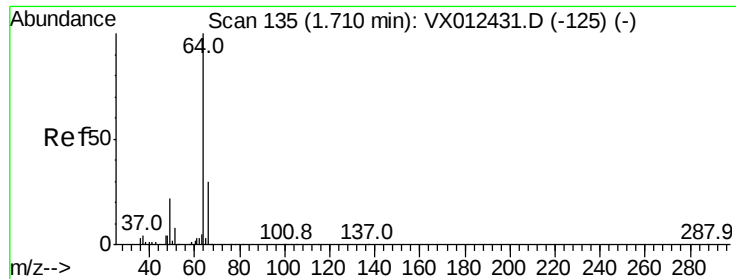
100

50

0

Time-->





#6

Chloroethane

Concen: 1.262 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

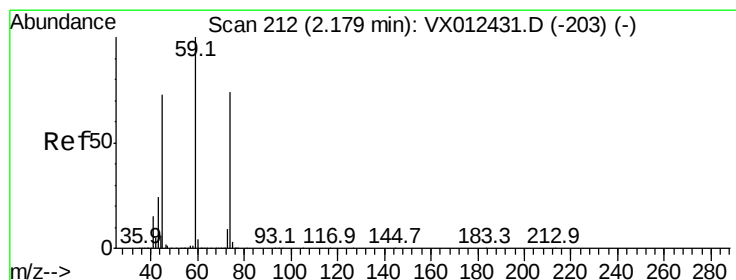
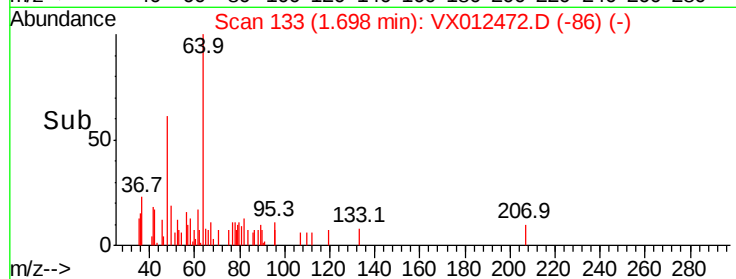
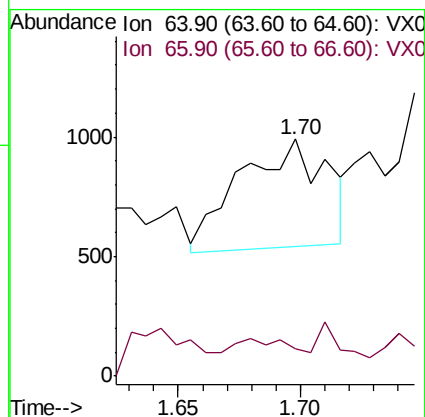
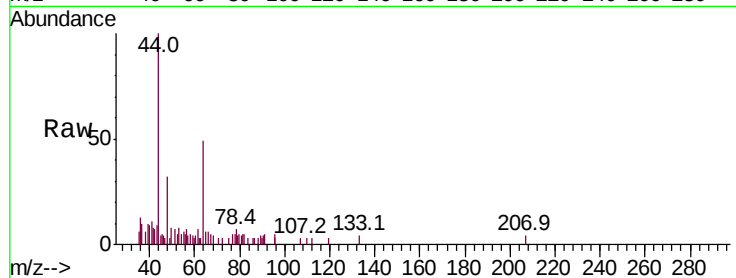
RE131D3-20190910DL

Tot Ion: 64 Resp: 1116

Ion Ratio Lower Upper

64 100

66 1.1 24.0 36.0#



#8

Diethyl Ether

Concen: 0.248 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX012472.D

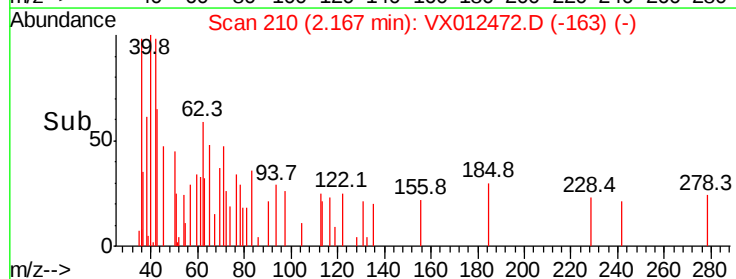
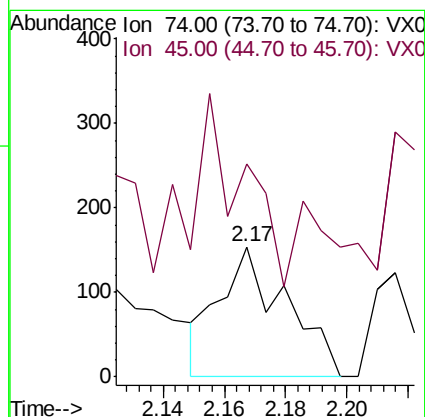
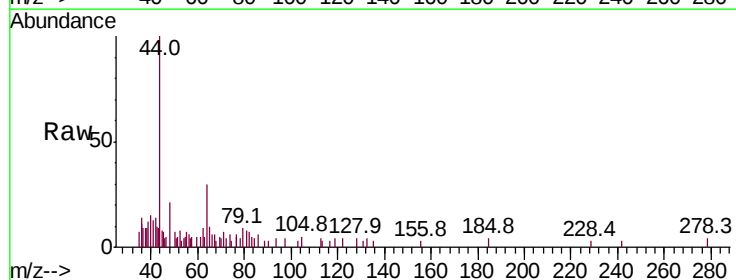
Acq: 18 Sep 2019 14:37

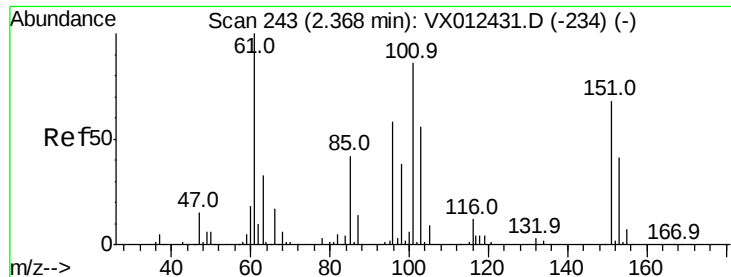
Tgt Ion: 74 Resp: 232

Ion Ratio Lower Upper

74 100

45 116.4 49.9 149.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.754 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20190910DL

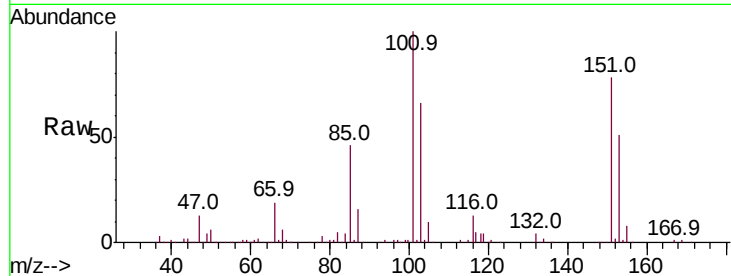
Tot Ion:101 Resp: 89578

Ion Ratio Lower Upper

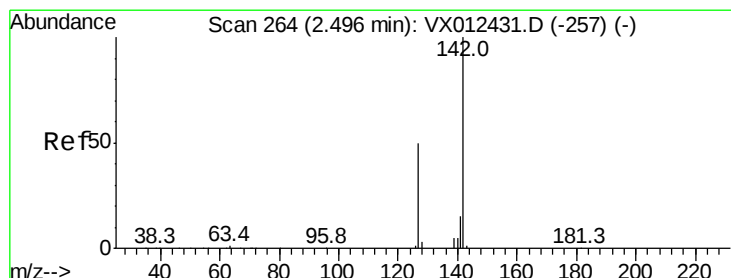
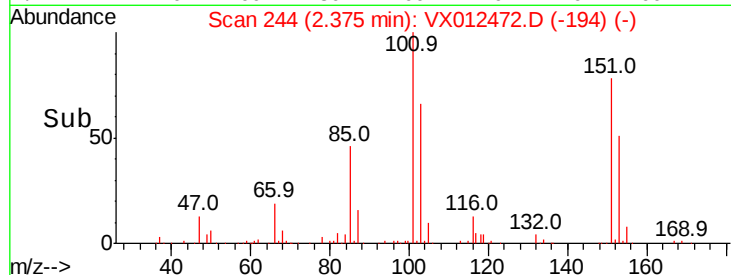
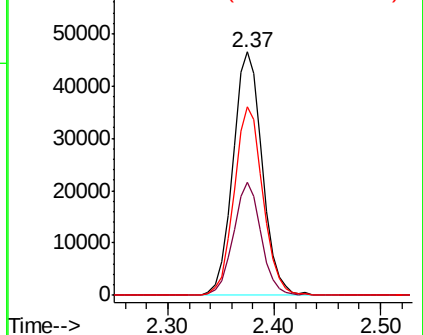
101 100

85 44.3 37.3 55.9

151 76.5 61.0 91.4



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VX0
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.631 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

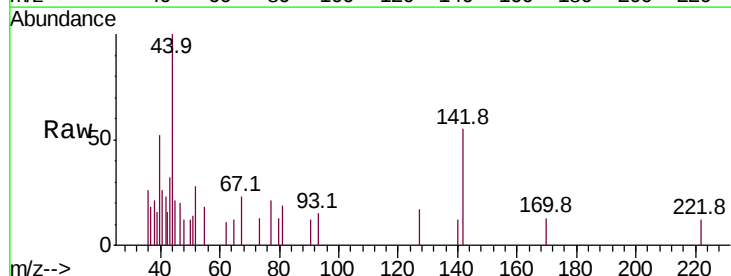
Tgt Ion:142 Resp: 267

Ion Ratio Lower Upper

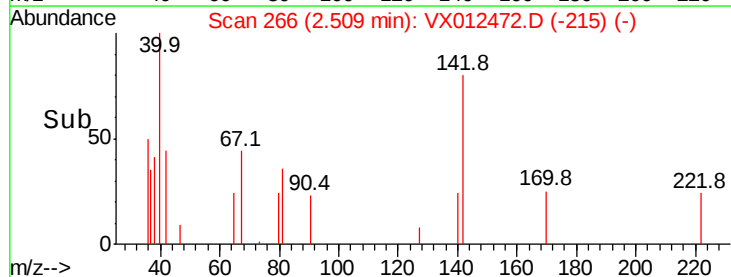
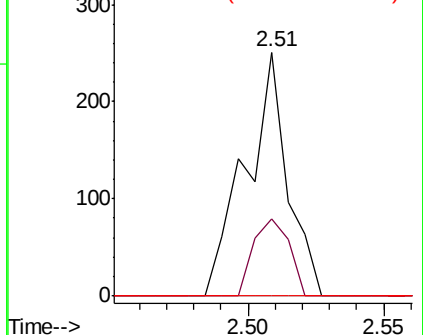
142 100

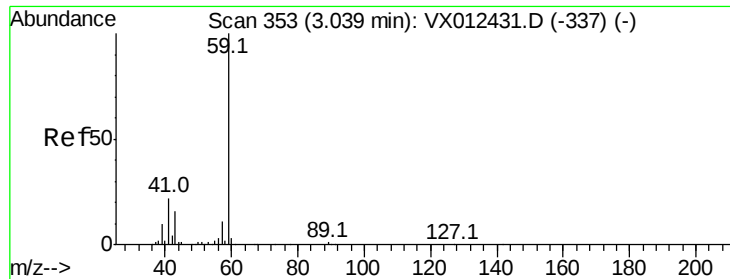
127 27.0 40.8 61.2#

141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 5.346 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

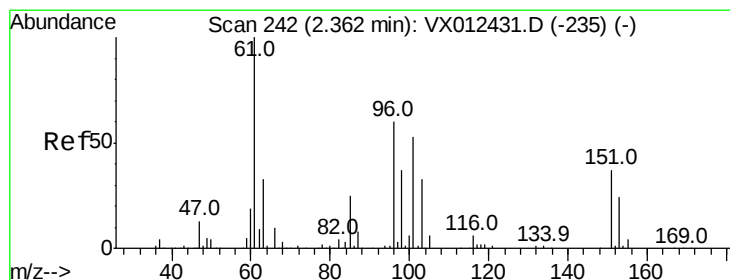
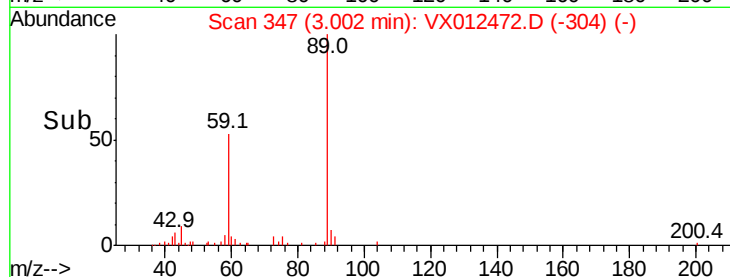
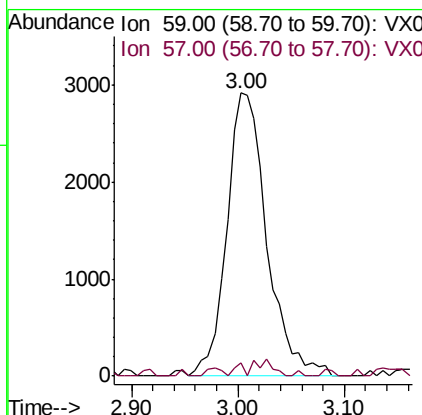
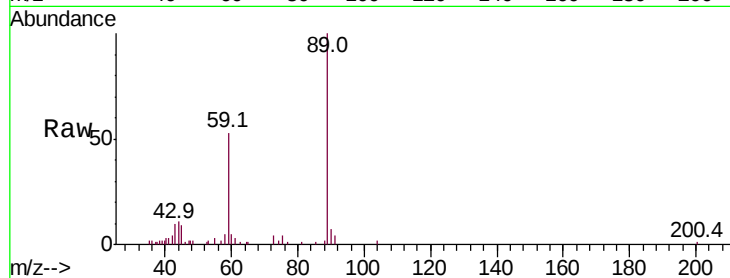
Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :
MSVOA_X
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RE131D3-20190910DL

Tot Ion: 59 Resp: 7669

Ion	Ratio	Lower	Upper
59	100		
57	1.0	8.3	12.5#



#12

1,1-Dichloroethene

Concen: 0.737 ug/l

RT: 2.37 min Scan# 243

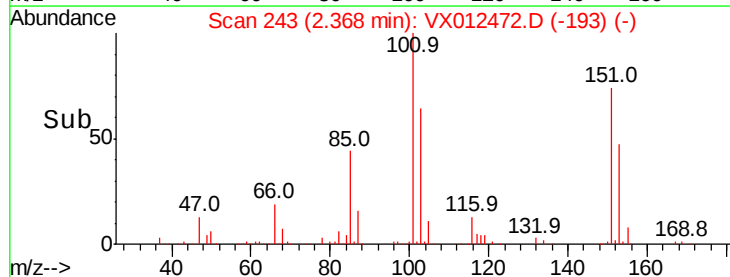
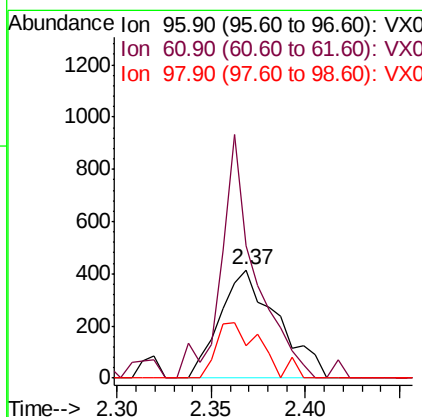
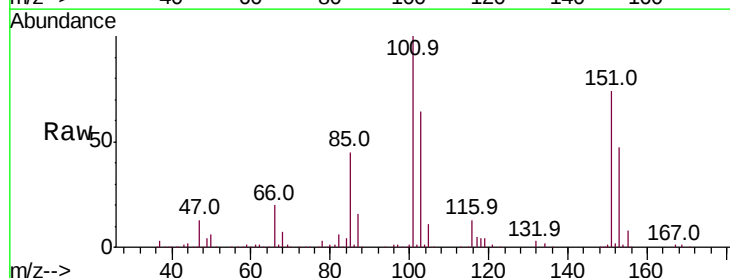
Delta R.T. 0.01 min

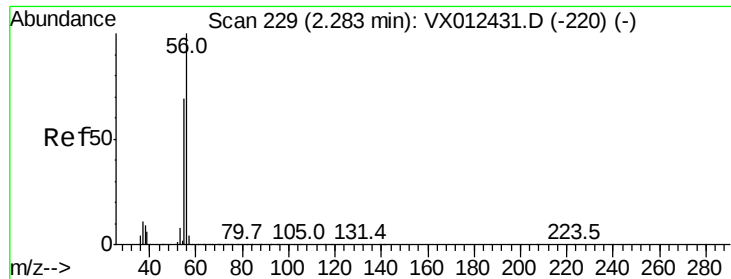
Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Tgt Ion: 96 Resp: 881

Ion	Ratio	Lower	Upper
96	100		
61	105.0	133.8	200.6#
98	29.6	49.9	74.9#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

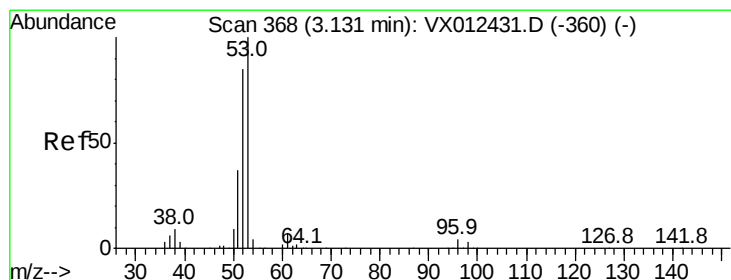
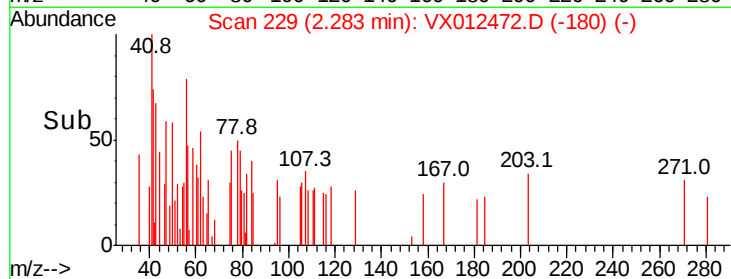
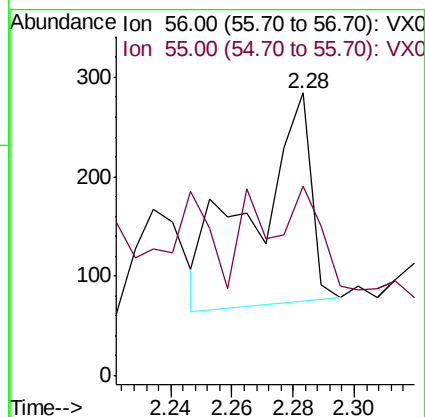
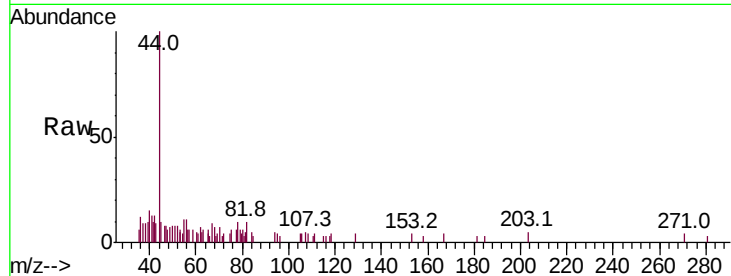
RE131D3-20190910DL

Tot Ion: 56 Resp: 273

Ion Ratio Lower Upper

56 100

55 91.2 55.8 83.8#



#15

Acrylonitrile

Concen: 0.257 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

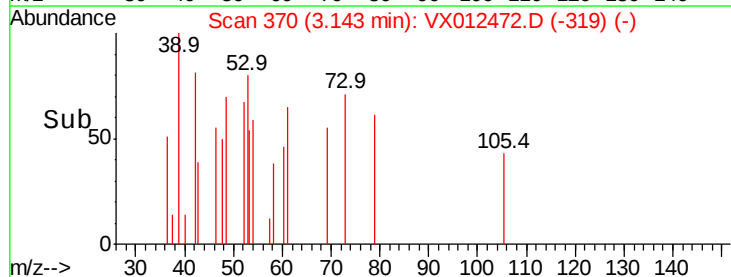
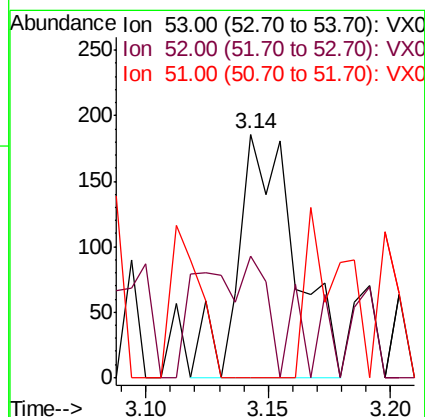
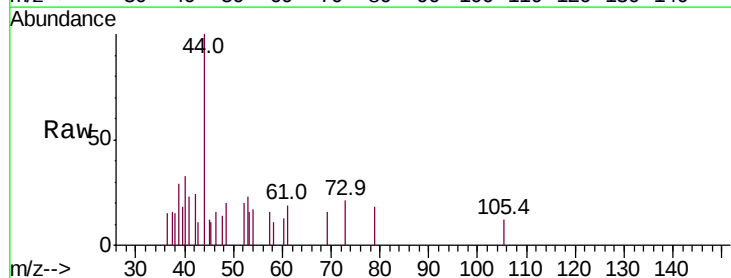
Tgt Ion: 53 Resp: 304

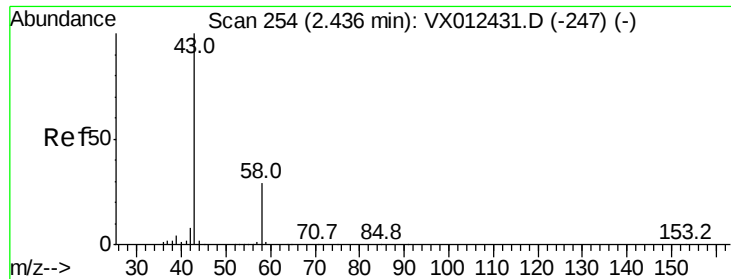
Ion Ratio Lower Upper

53 100

52 55.6 67.0 100.4#

51 0.0 29.6 44.4#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

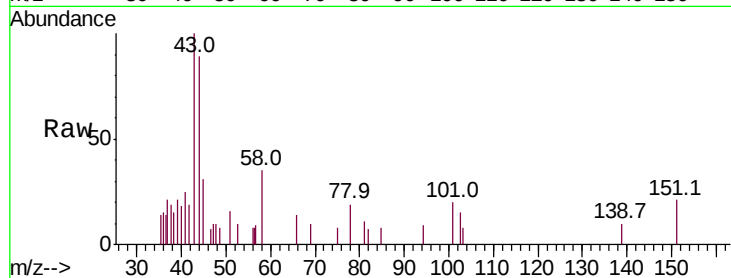
RE131D3-20190910DL

Tot Ion: 43 Resp: 1021

Ion Ratio Lower Upper

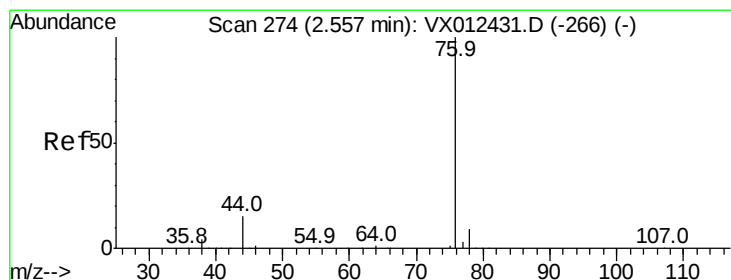
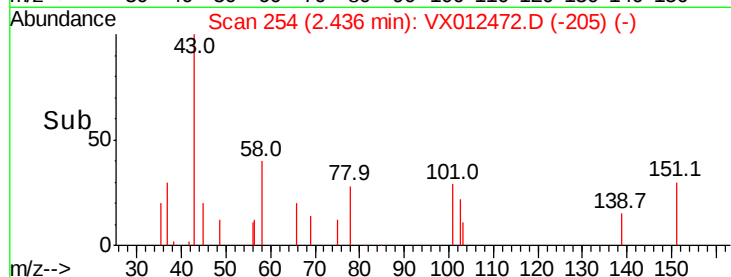
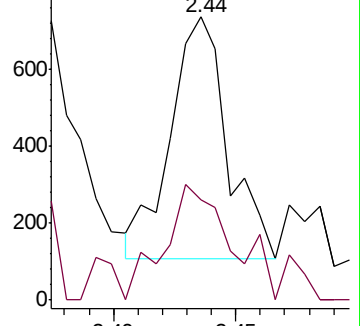
43 100

58 41.5 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.927 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012472.D

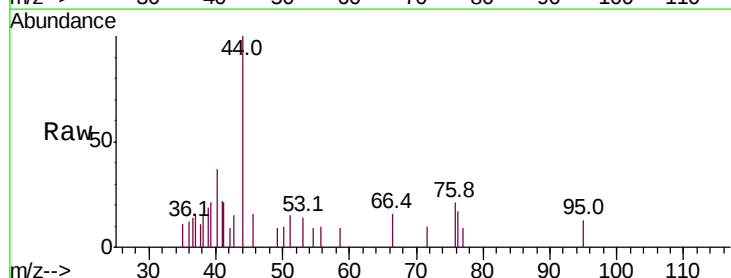
Acq: 18 Sep 2019 14:37

Tgt Ion: 76 Resp: 211

Ion Ratio Lower Upper

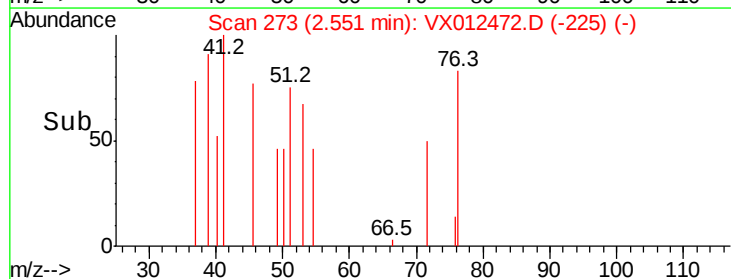
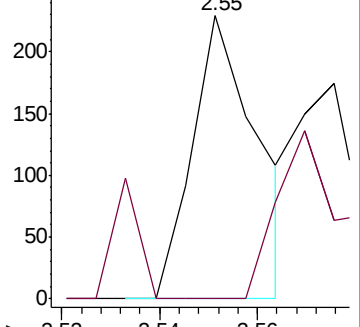
76 100

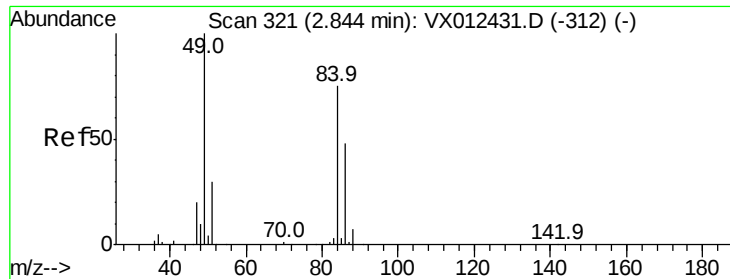
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

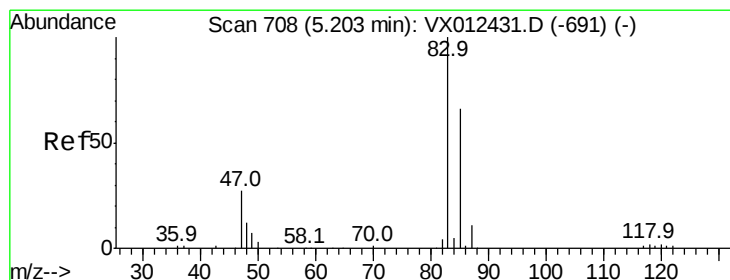
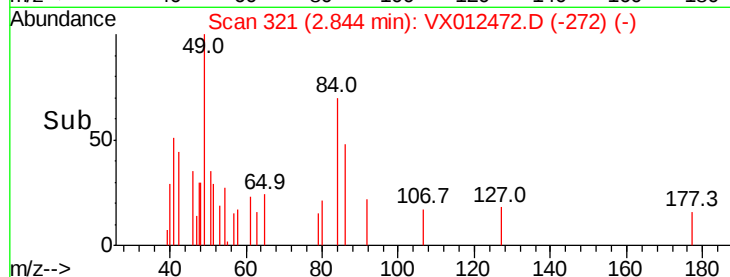
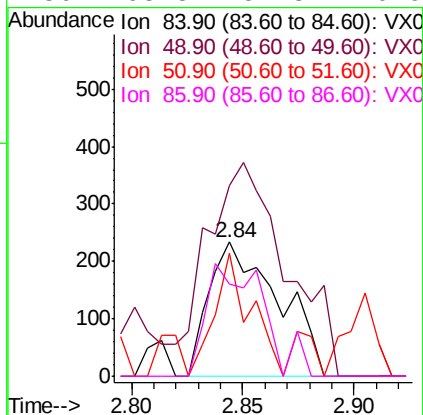
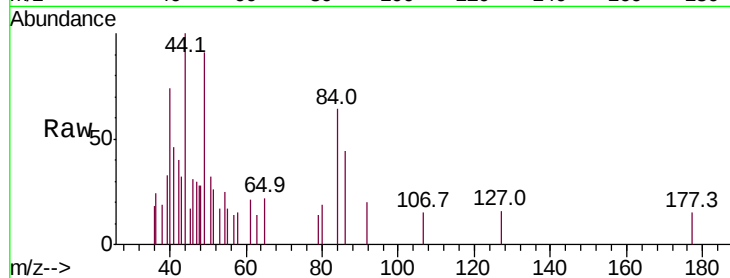




#20
Methvlene Chloride
Concen: 0.306 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012472.D
Acq: 18 Sep 2019 14:37

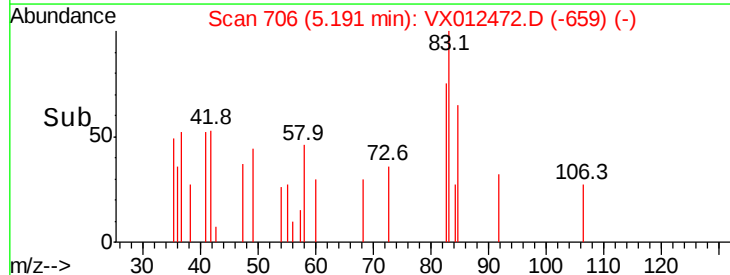
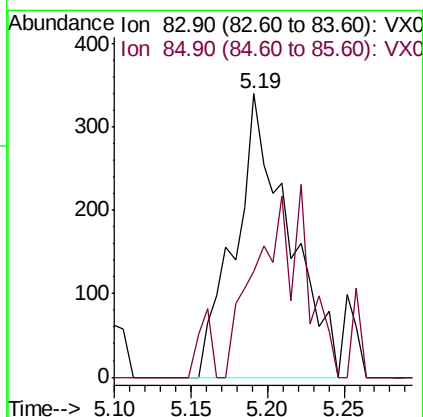
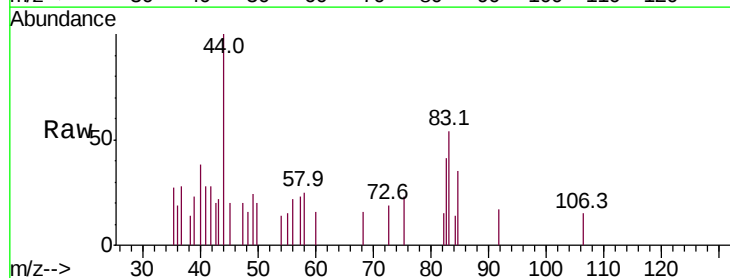
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20190910DL

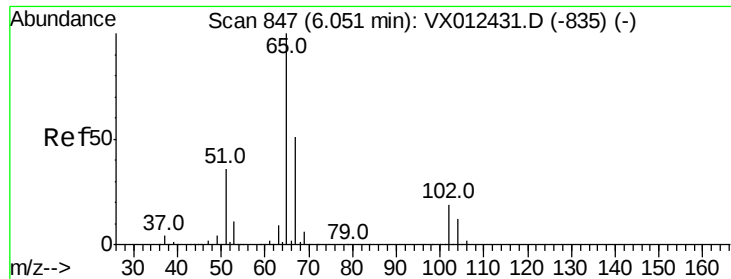
Tot Ion: 84 Resp: 505
Ion Ratio Lower Upper
84 100
49 108.5 106.8 160.2
51 91.5 32.3 48.5#
86 68.8 51.3 76.9



#30
Chloroform
Concen: 0.232 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX012472.D
Acq: 18 Sep 2019 14:37

Tgt Ion: 83 Resp: 831
Ion Ratio Lower Upper
83 100
85 37.4 53.0 79.4#





#33

1,2-Dichloroethane-d4

Concen: 46.689 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

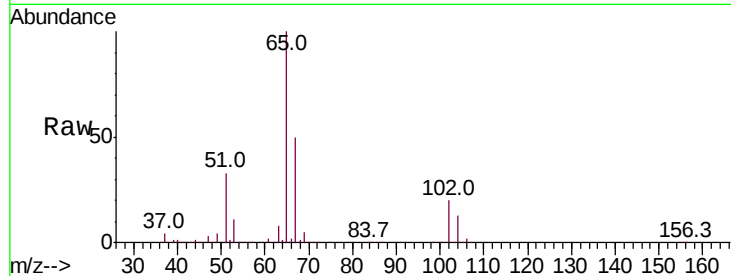
RE131D3-20190910DL

Tot Ion: 65 Resp: 127283

Ion Ratio Lower Upper

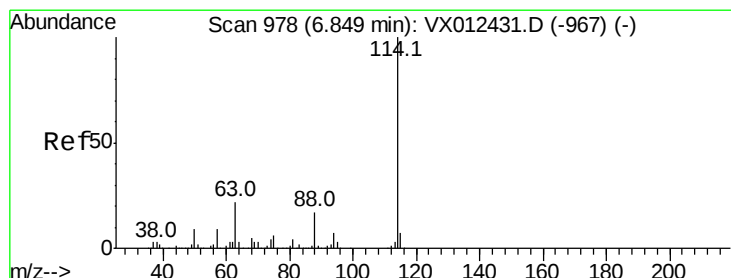
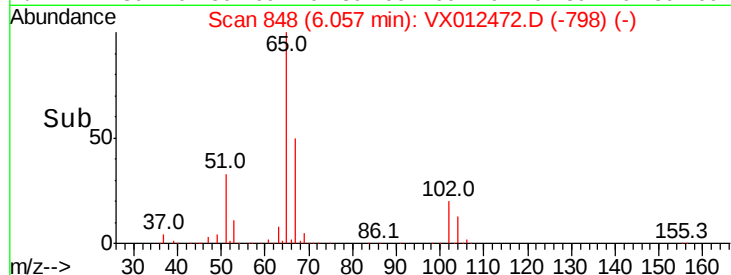
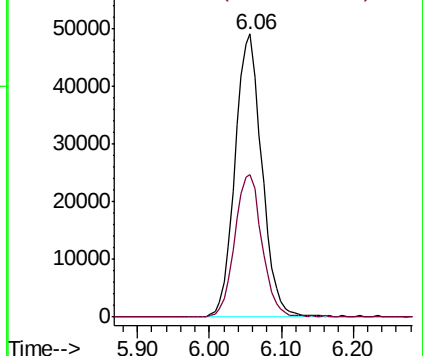
65 100

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

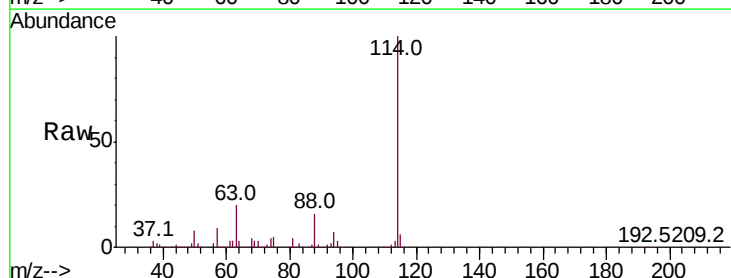
Tgt Ion: 114 Resp: 300505

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.2

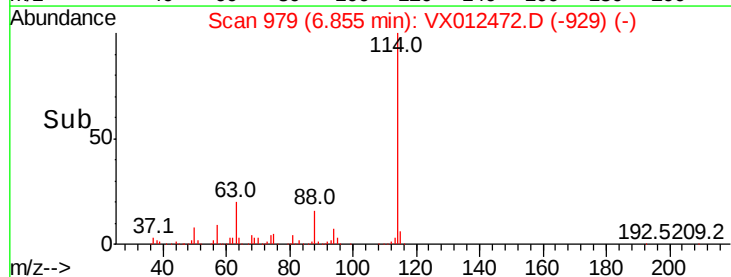
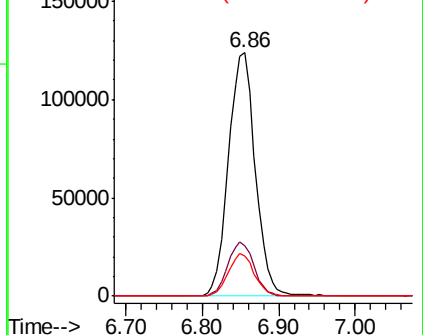
88 16.3 0.0 33.2

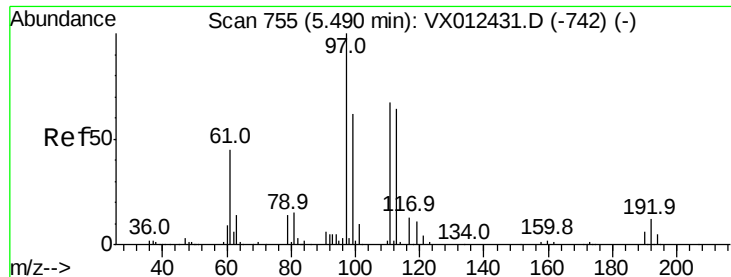


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.429 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20190910DL

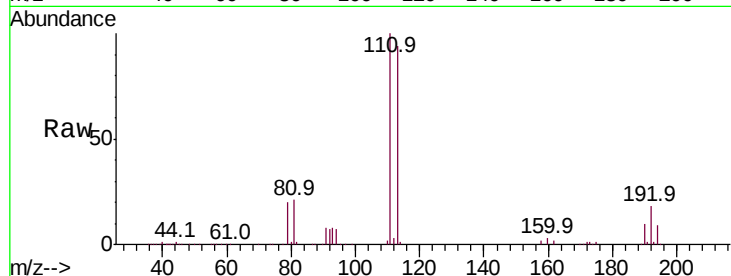
Tot Ion:113 Resp: 89904

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

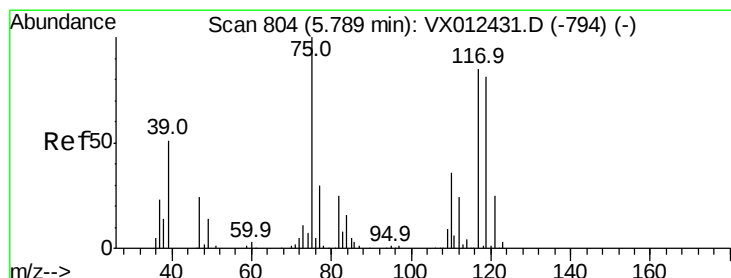
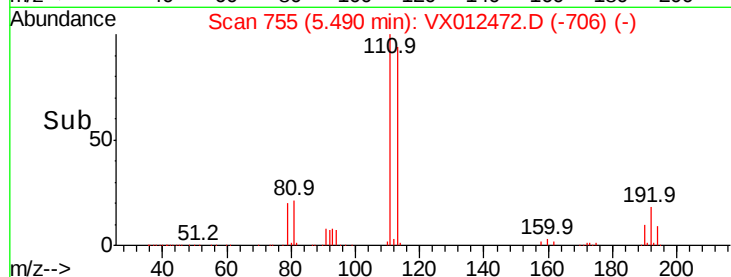
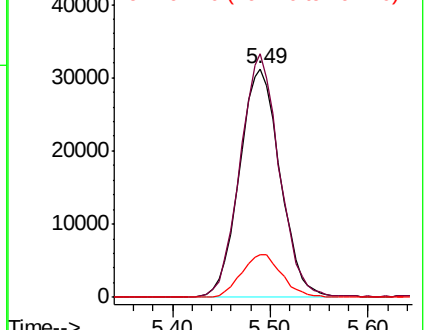
192 18.9 14.4 21.6



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: 8.913 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

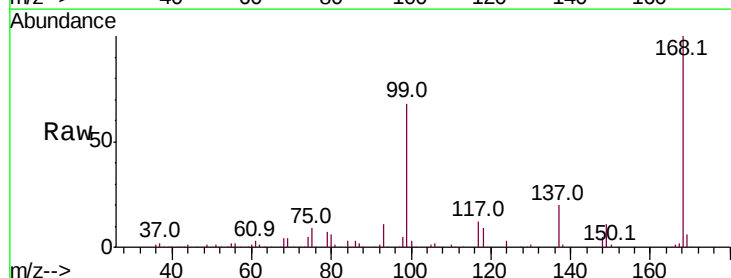
Tgt Ion: 75 Resp: 16278

Ion Ratio Lower Upper

75 100

110 10.4 16.7 50.0#

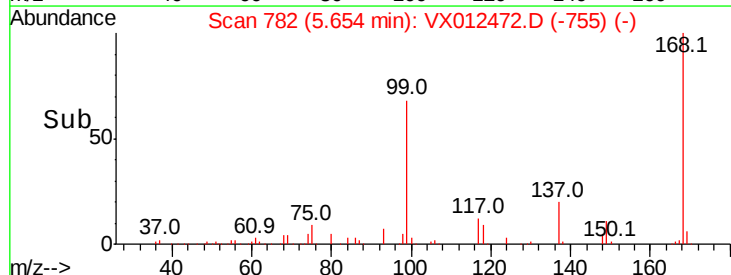
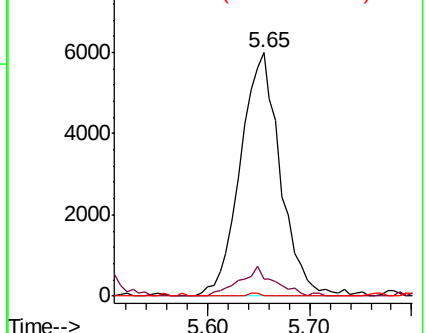
77 0.3 24.2 36.2#

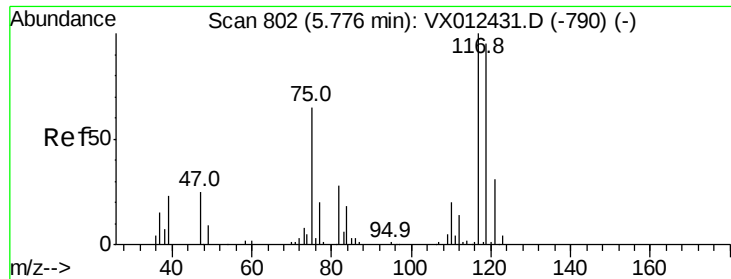


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.110 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20190910DL

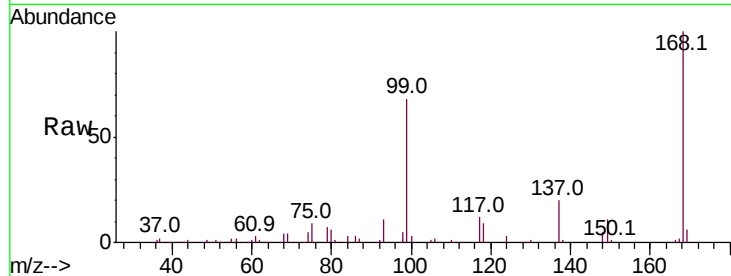
Tot Ion:117 Resp: 20692

Ion Ratio Lower Upper

117 100

119 3.5 75.7 113.5#

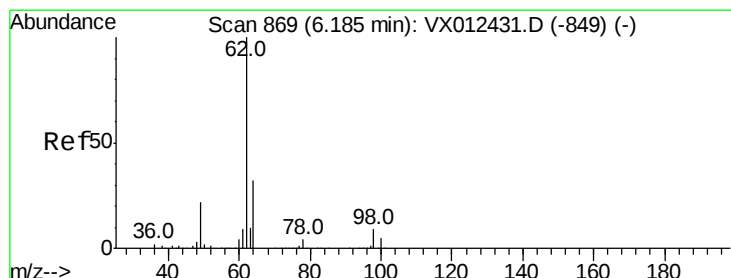
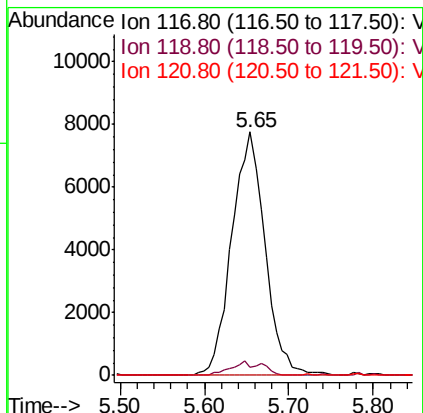
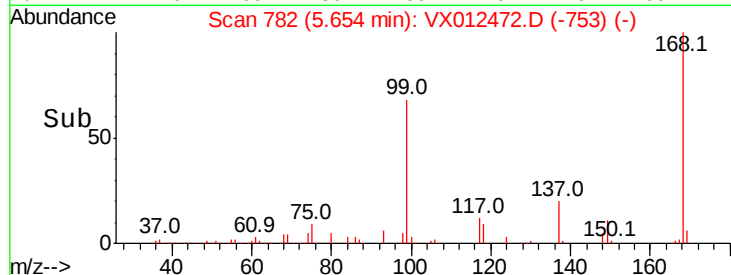
121 0.0 24.2 36.4#



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



#42

1,2-Dichloroethane

Concen: 0.230 ug/l

RT: 6.20 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX012472.D

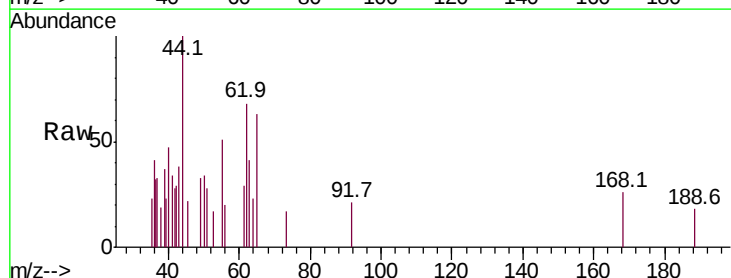
Acq: 18 Sep 2019 14:37

Tgt Ion: 62 Resp: 619

Ion Ratio Lower Upper

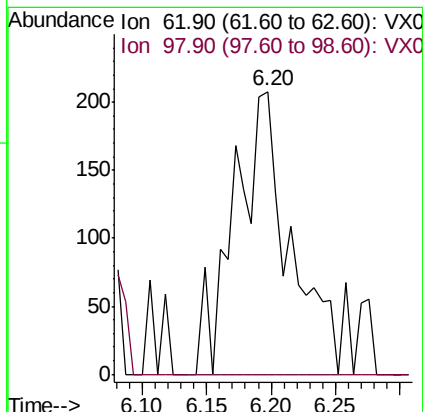
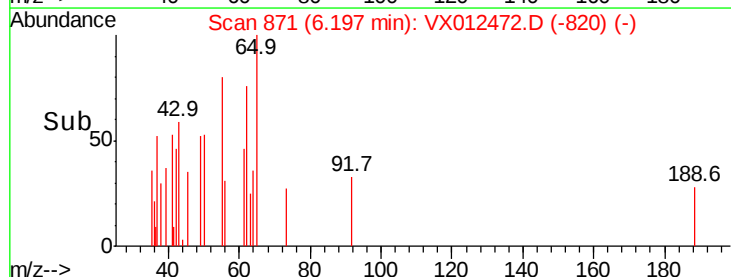
62 100

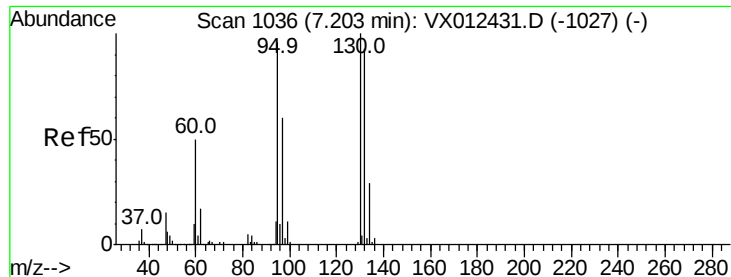
98 0.0 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 5.117 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

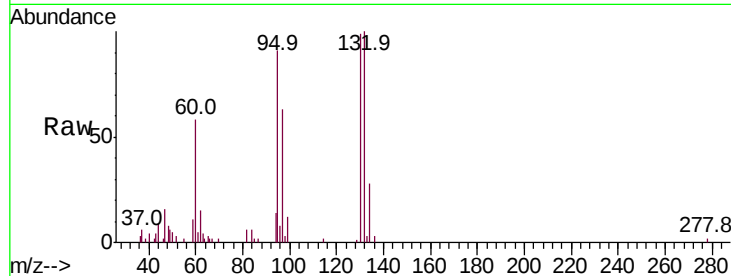
RE131D3-20190910DL

Tot Ion:130 Resp: 7818

Ion Ratio Lower Upper

130 100

95 91.5 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

4000

3000

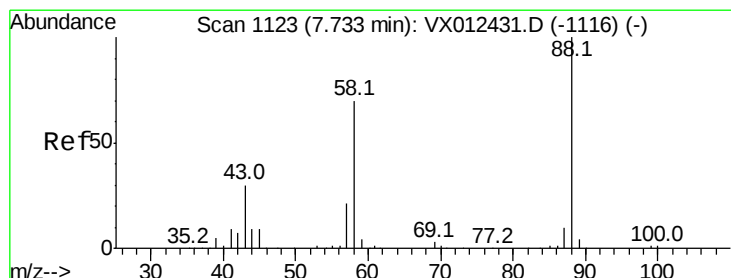
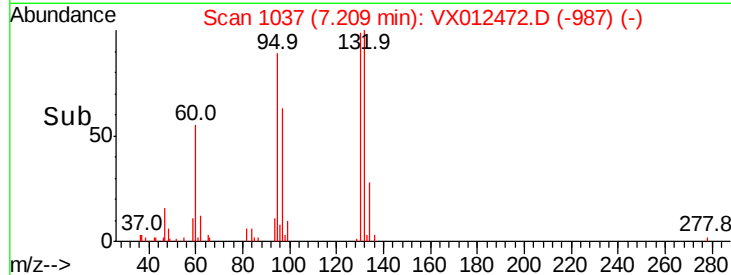
2000

1000

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 0.987 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

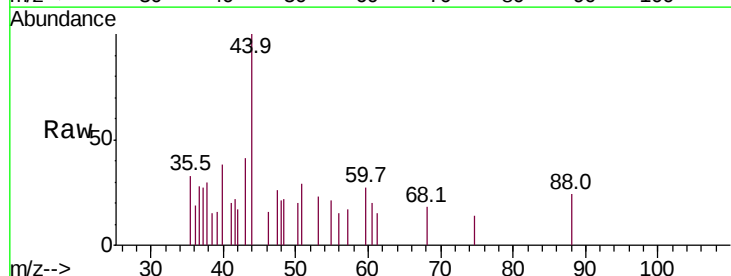
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 73.7 29.4 44.0#

58 0.0 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

250

200

150

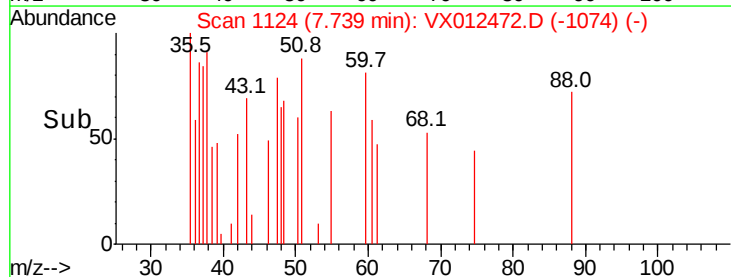
100

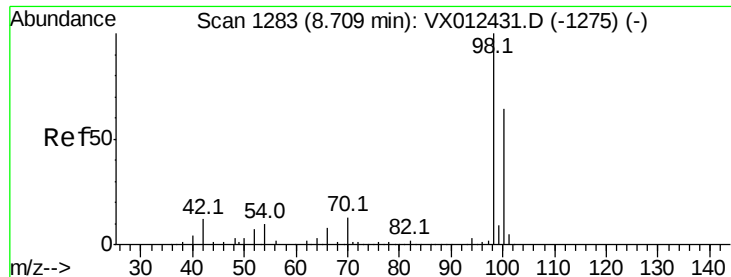
50

0

7.72 7.74 7.76

Time-->

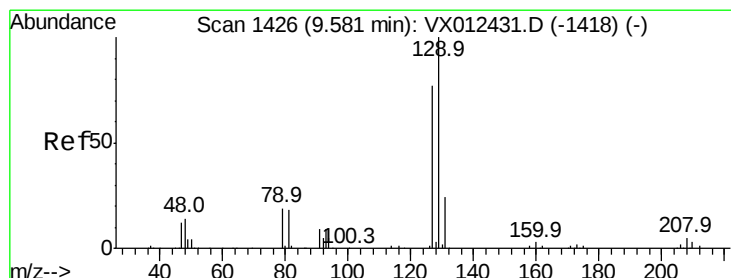
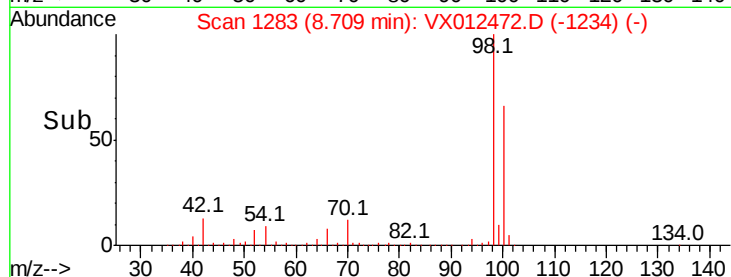
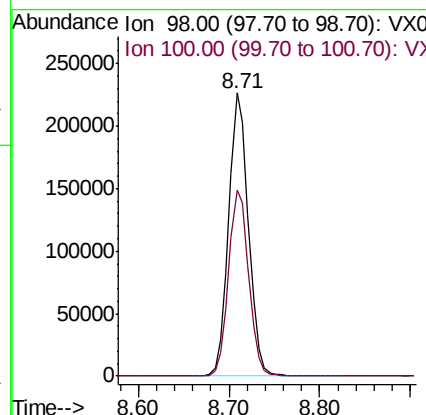
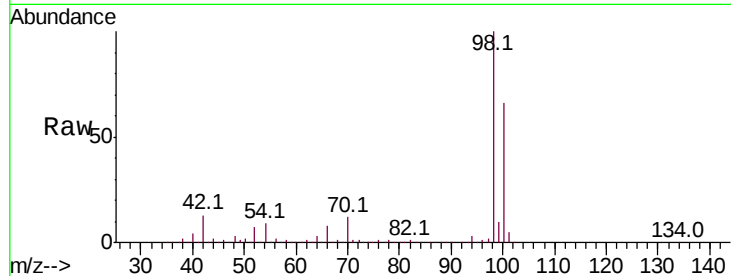




#50
Toluene-d8
Concen: 51.016 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012472.D
Acq: 18 Sep 2019 14:37

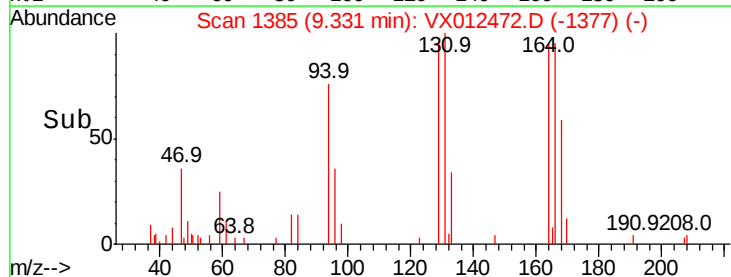
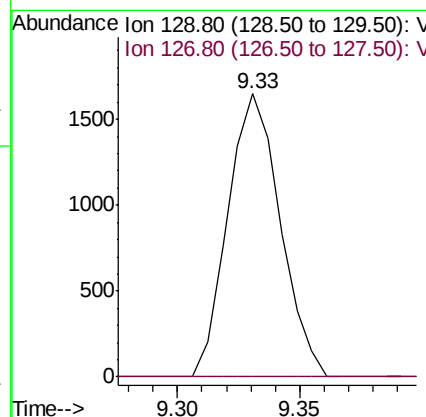
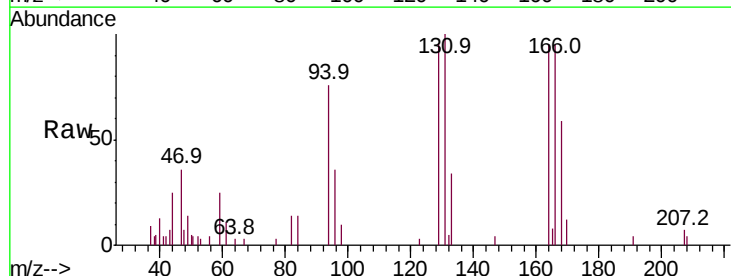
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20190910DL

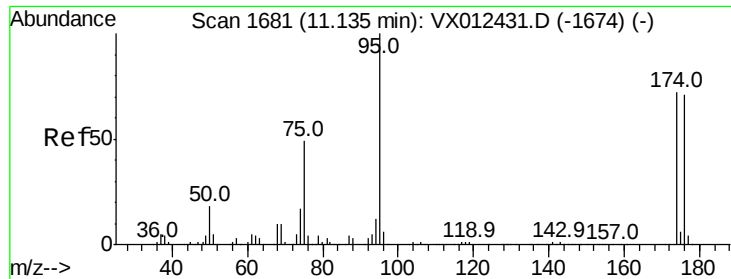
Tot Ion: 98 Resp: 343455
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.2



#60
Dibromochloromethane
Concen: 1.252 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX012472.D
Acq: 18 Sep 2019 14:37

Tgt Ion: 129 Resp: 2459
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.6#





#62

4-Bromofluorobenzene

Concen: 42.293 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20190910DL

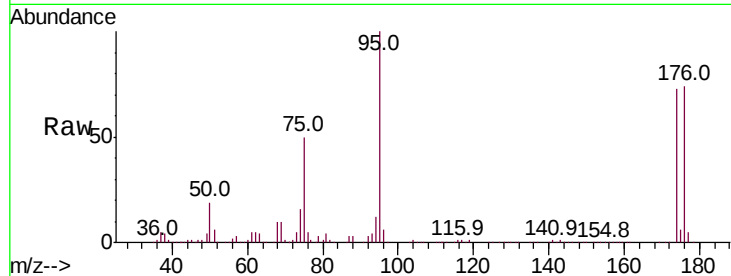
Tot Ion: 95 Resp: 118223

Ion Ratio Lower Upper

95 100

174 72.4 0.0 140.0

176 68.1 0.0 135.4

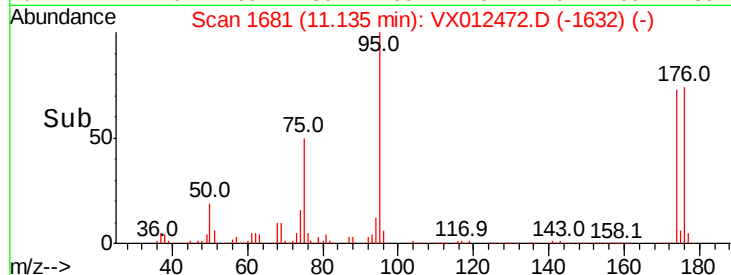


Abundance Ion 94.90 (94.60 to 95.60): VX012472.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012472.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012472.D (-1632) (-)

Time-->

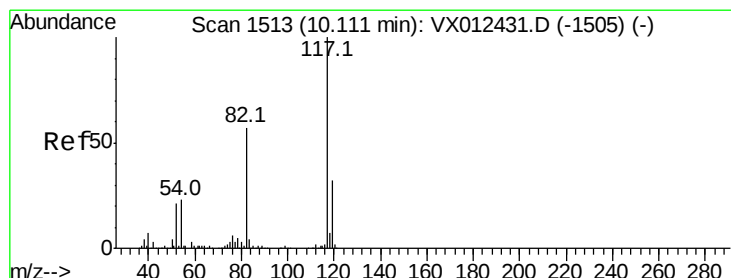


Abundance Ion 94.90 (94.60 to 95.60): VX012472.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012472.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012472.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

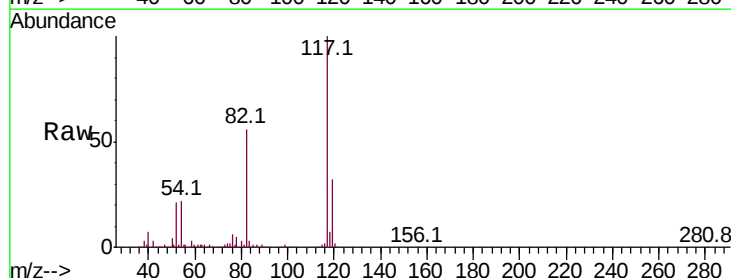
Tgt Ion: 117 Resp: 245774

Ion Ratio Lower Upper

117 100

82 55.7 45.9 68.9

119 32.1 25.3 37.9

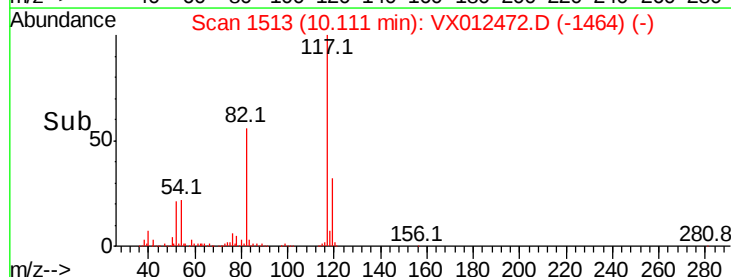


Abundance Ion 116.90 (116.60 to 117.60): VX012472.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012472.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012472.D (-1464) (-)

Time-->

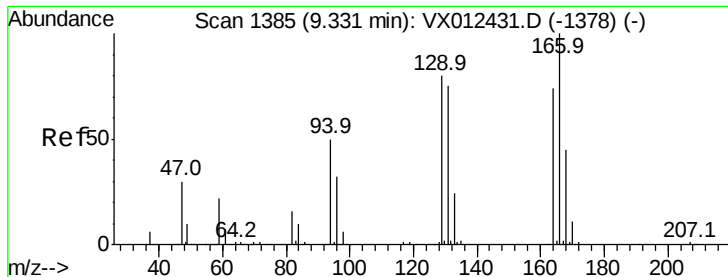


Abundance Ion 116.90 (116.60 to 117.60): VX012472.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012472.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012472.D (-1464) (-)

Time-->



#64

Tetrachloroethene

Concen: 2.130 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20190910DL

Tot Ion:164 Resp: 2399

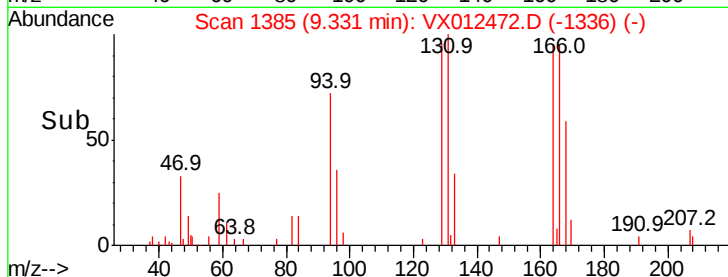
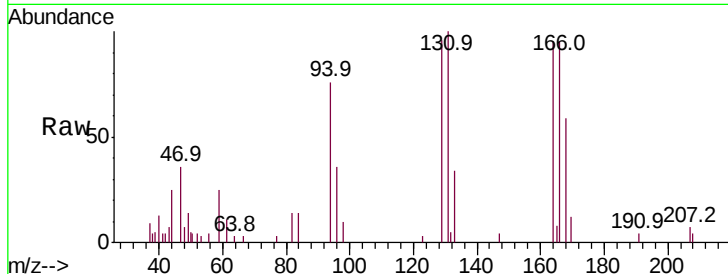
Ion Ratio Lower Upper

164 100

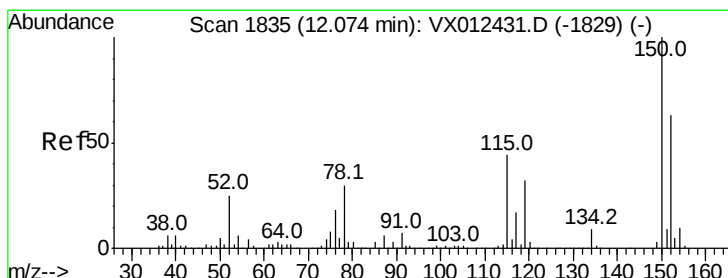
166 100.0 107.8 161.6#

129 101.2 86.2 129.2

131 105.3 80.4 120.6



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

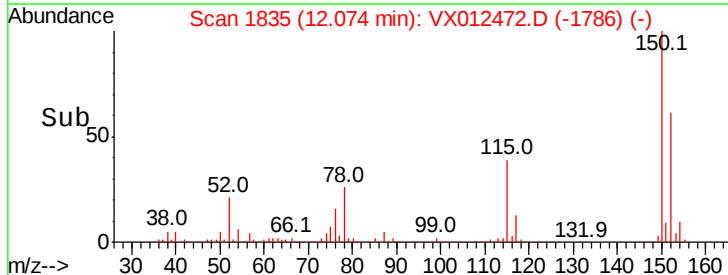
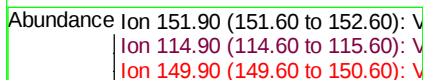
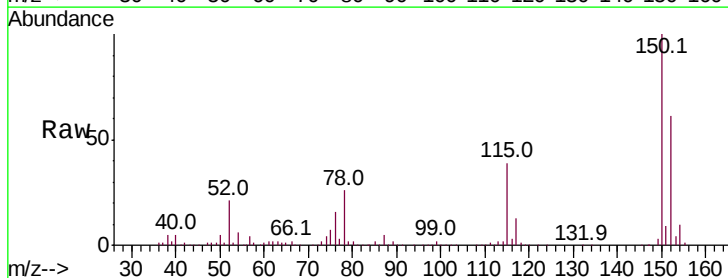
Tgt Ion:152 Resp: 93579

Ion Ratio Lower Upper

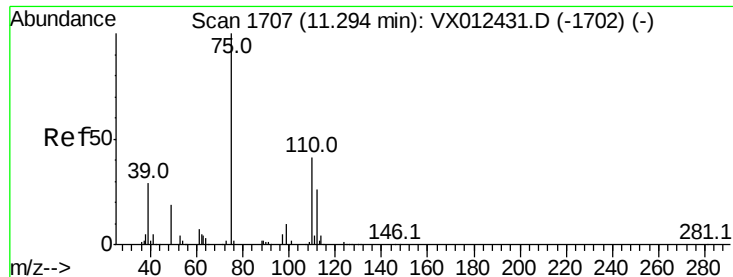
152 100

115 63.8 44.1 132.3

150 158.9 0.0 343.8



Time-->



#76

1,2,3-Trichloropropane

Concen: 27.824 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

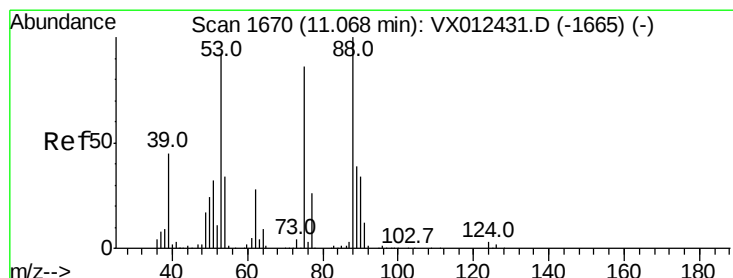
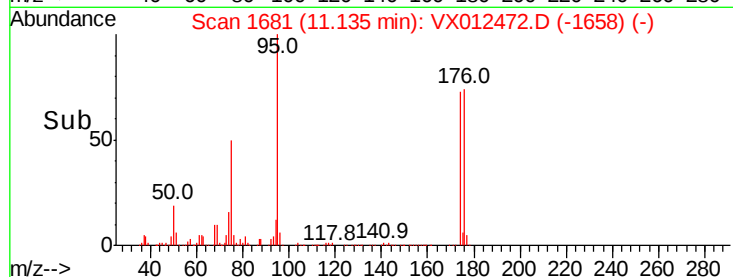
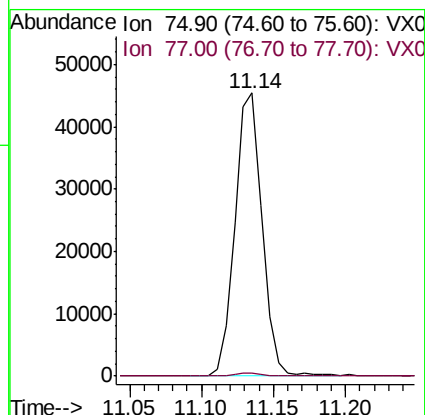
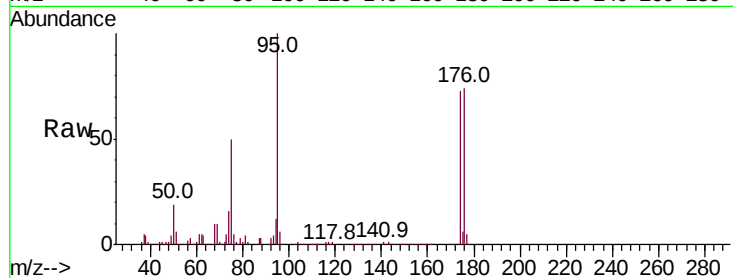
RE131D3-20190910DL

Tot Ion: 75 Resp: 59811

Ion Ratio Lower Upper

75 100

77 1.1 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.755 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012472.D

Acq: 18 Sep 2019 14:37

Tgt Ion: 75 Resp: 59811

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#

