

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012471.D
 Acq On : 18 Sep 2019 14:14
 Operator : JC/SP
 Sample : K4858-17DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20190910DL

Quant Time: Sep 19 06:00:52 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	181733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	286109	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	106335	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	121361	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
35) Dibromofluoromethane	5.48	113	83369	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
50) Toluene-d8	8.71	98	328378	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.14	95	125575	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	

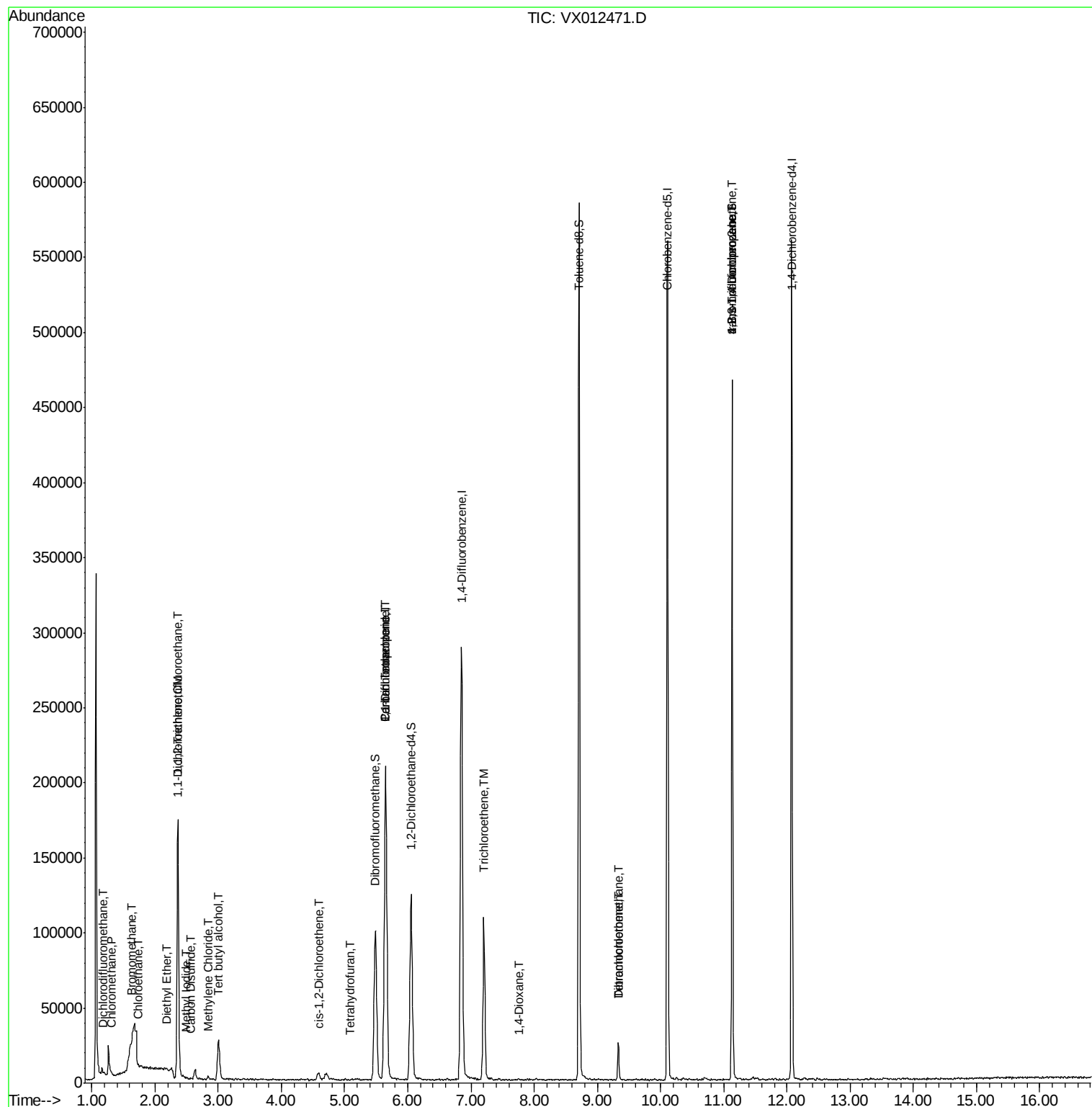
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	275	0.616	ug/l	89
3) Chloromethane	1.32	50	484	0.484	ug/l	98
5) Bromomethane	1.62	94	239	0.563	ug/l #	40
6) Chloroethane	1.73	64	1183	1.400	ug/l #	45
8) Diethyl Ether	2.18	74	189	0.211	ug/l	51
9) 1,1,2-Trichlorotrifluoroet	2.36	101	66238	46.247	ug/l	98
10) Methyl Iodide	2.49	142	448	4.774	ug/l #	77
11) Tert butyl alcohol	3.00	59	17614	21.295	ug/l #	77
12) 1,1-Dichloroethene	2.35	96	1025	0.897	ug/l	92
13) Acrolein	2.26	56	253	Below Cal	#	15
16) Acetone	2.44	43	1657	Below Cal		97
17) Carbon Disulfide	2.55	76	230	1.944	ug/l #	75
20) Methylene Chloride	2.84	84	741	0.470	ug/l #	78
27) cis-1,2-Dichloroethene	4.59	96	2676	1.510	ug/l	98
29) Tetrahydrofuran	5.09	42	233	0.233	ug/l #	34
36) 1,1-Dichloropropene	5.65	75	15622	8.984	ug/l #	53
38) Carbon Tetrachloride	5.65	117	19946	9.223	ug/l #	17
44) Trichloroethene	7.20	130	41425	28.480	ug/l	96
49) 1,4-Dioxane	7.76	88	315	5.731	ug/l #	10
60) Dibromochloromethane	9.33	129	4423	2.366	ug/l #	11
64) Tetrachloroethene	9.33	164	4342	3.860	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	64208	26.287	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	64208	70.794	ug/l #	8

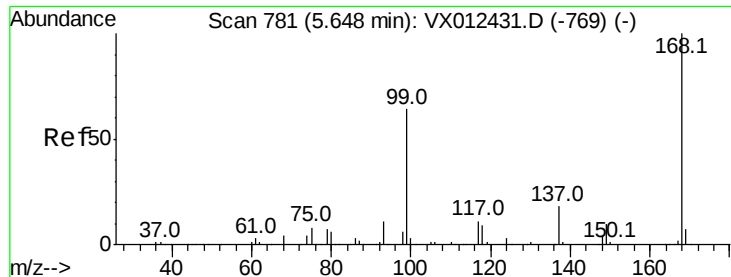
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

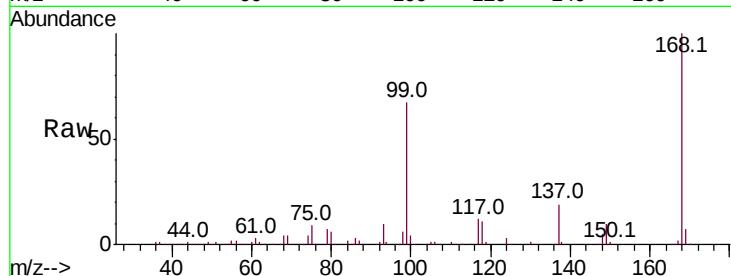
RE131D2-20190910DL

Tot Ion:168 Resp: 181733

Ion Ratio Lower Upper

168 100

99 66.6 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

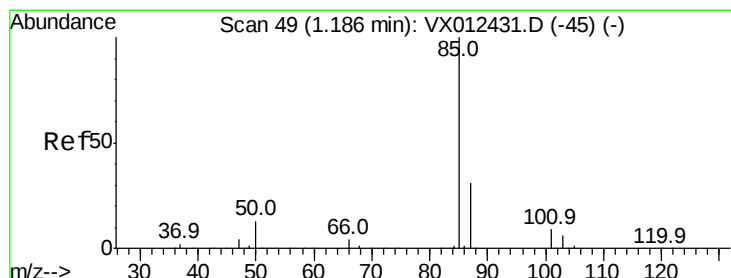
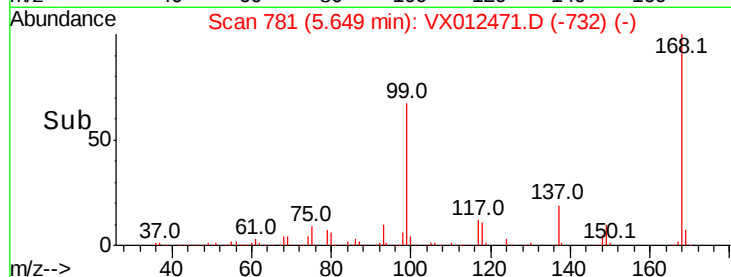
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.616 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012471.D

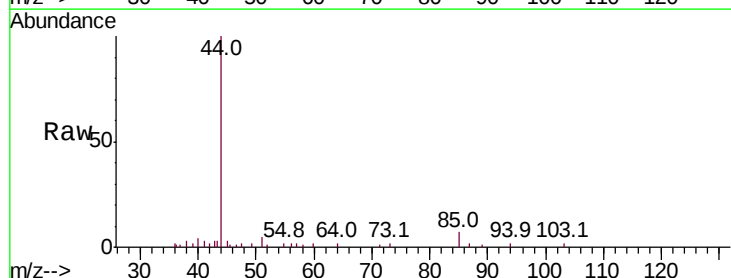
Acq: 18 Sep 2019 14:14

Tgt Ion: 85 Resp: 275

Ion Ratio Lower Upper

85 100

87 25.4 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

300

250

200

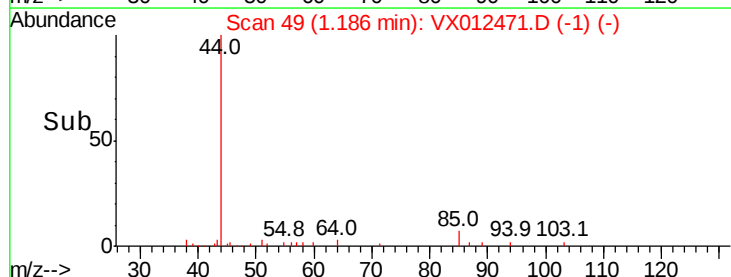
150

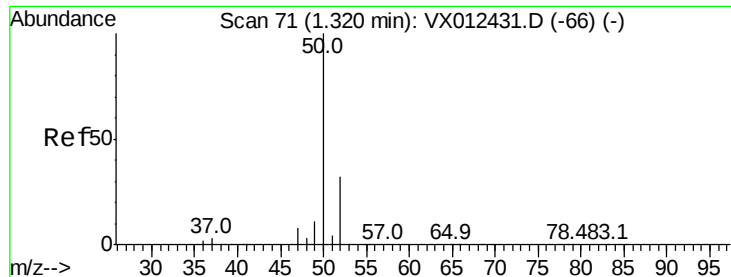
100

50

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 0.484 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

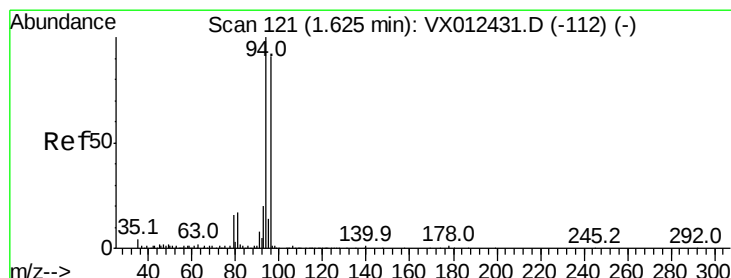
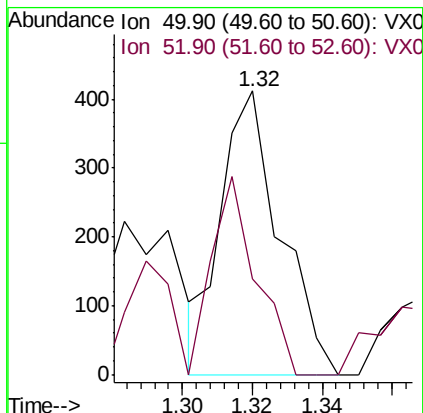
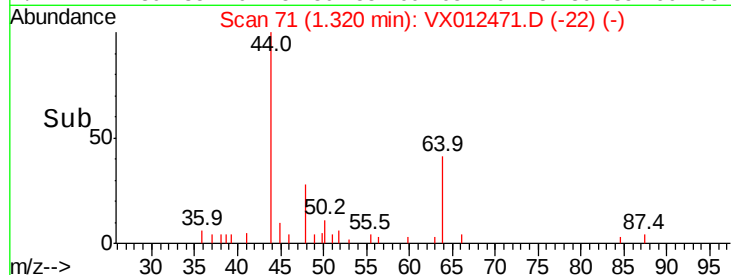
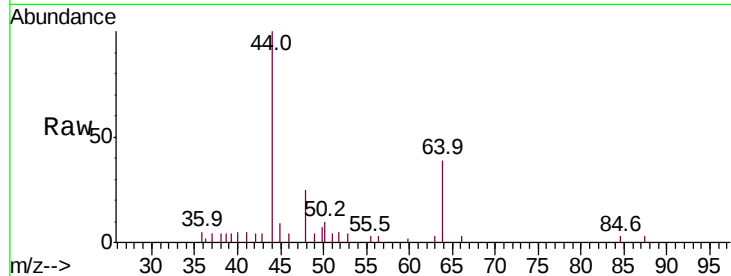
RE131D2-20190910DL

Tot Ion: 50 Resp: 484

Ion Ratio Lower Upper

50 100

52 33.5 25.7 38.5



#5

Bromomethane

Concen: 0.563 ug/l

RT: 1.62 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX012471.D

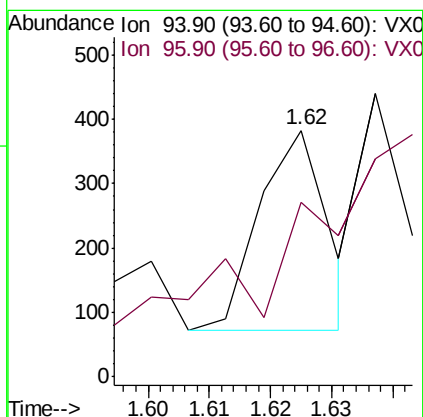
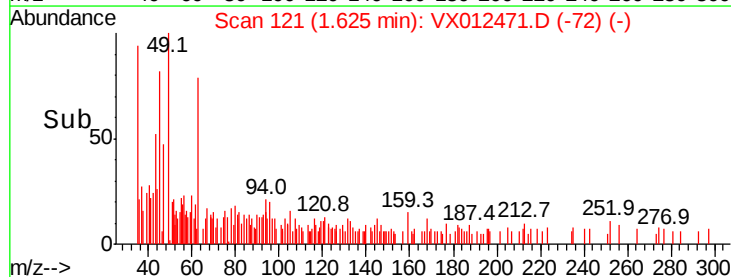
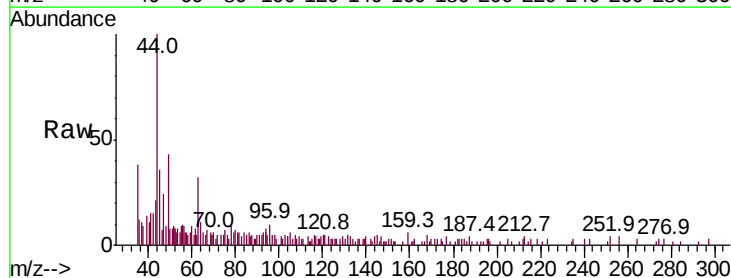
Acq: 18 Sep 2019 14:14

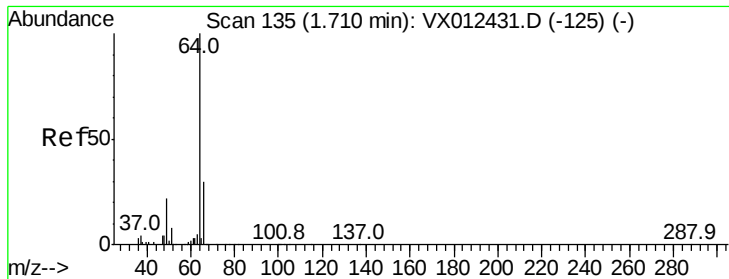
Tgt Ion: 94 Resp: 239

Ion Ratio Lower Upper

94 100

96 34.3 72.8 109.2#





#6

Chloroethane

Concen: 1.400 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

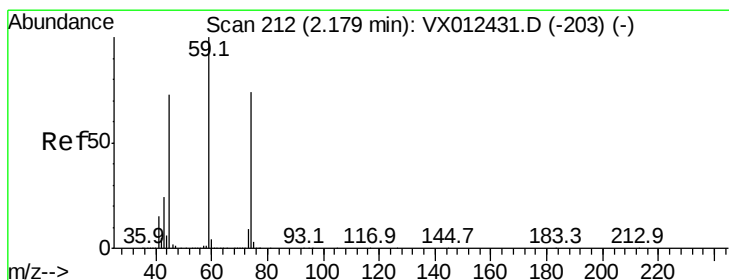
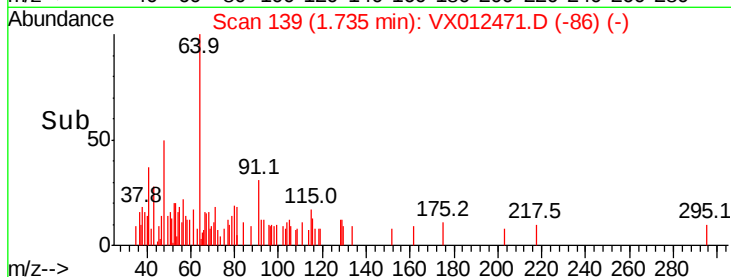
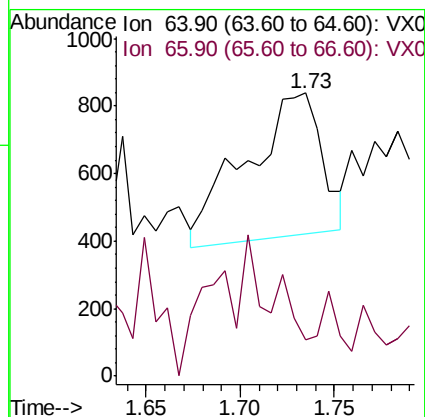
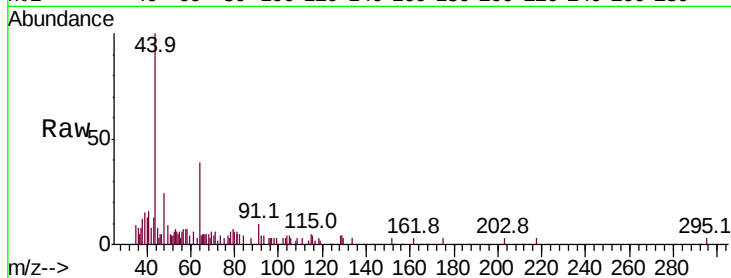
RE131D2-20190910DL

Tot Ion: 64 Resp: 1183

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#8

Diethyl Ether

Concen: 0.211 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX012471.D

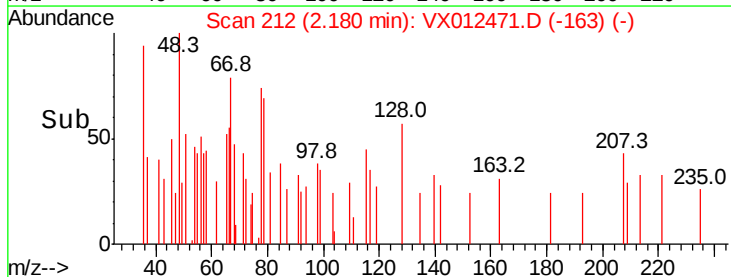
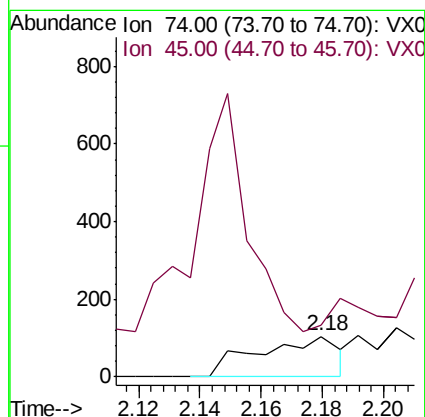
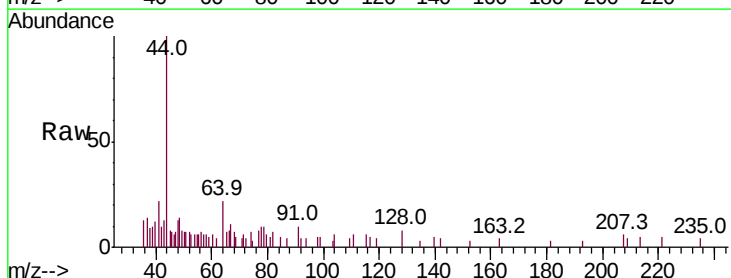
Acq: 18 Sep 2019 14:14

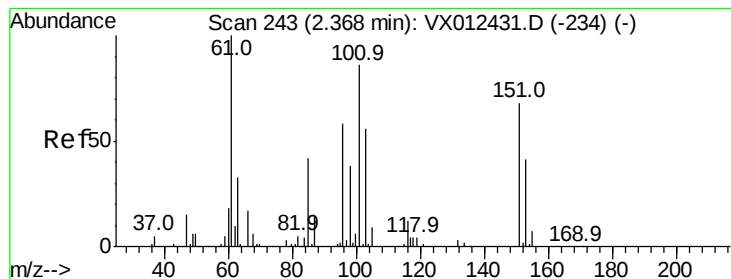
Tgt Ion: 74 Resp: 189

Ion Ratio Lower Upper

74 100

45 51.3 49.9 149.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.247 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20190910DL

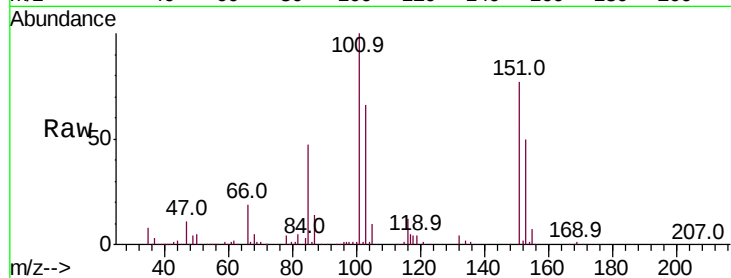
Tot Ion:101 Resp: 66238

Ion Ratio Lower Upper

101 100

85 44.8 37.3 55.9

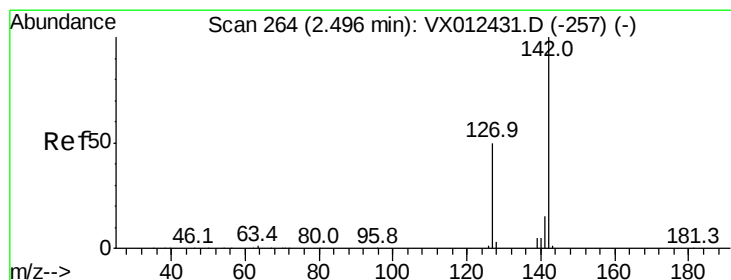
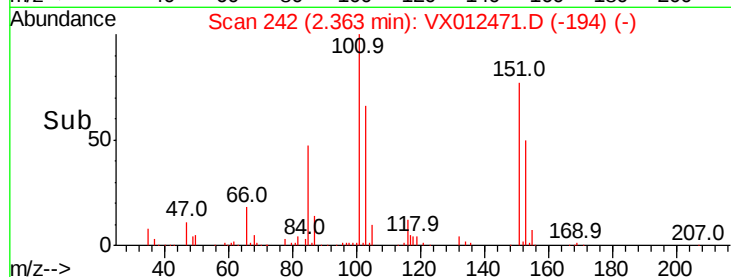
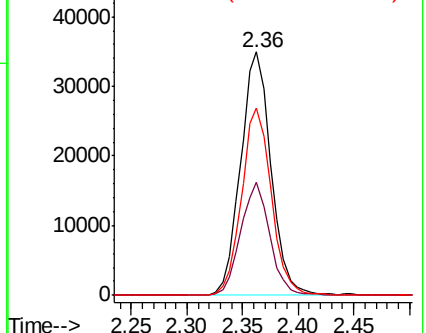
151 75.5 61.0 91.4



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: 4.774 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

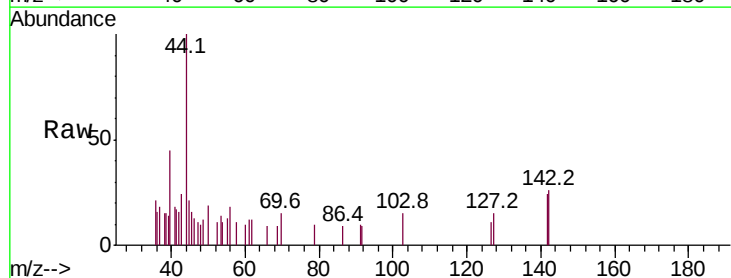
Tgt Ion:142 Resp: 448

Ion Ratio Lower Upper

142 100

127 37.5 40.8 61.2#

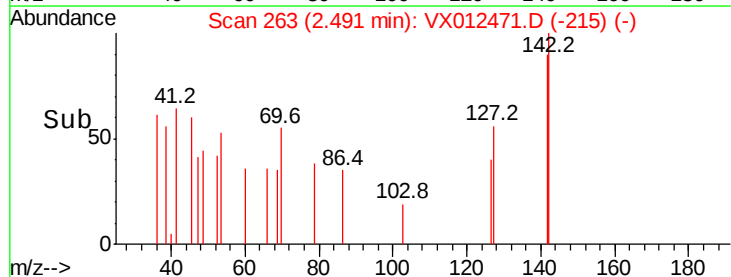
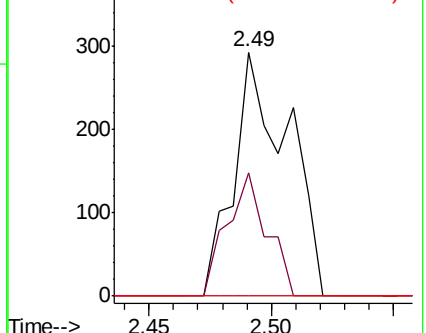
141 0.0 12.1 18.1#

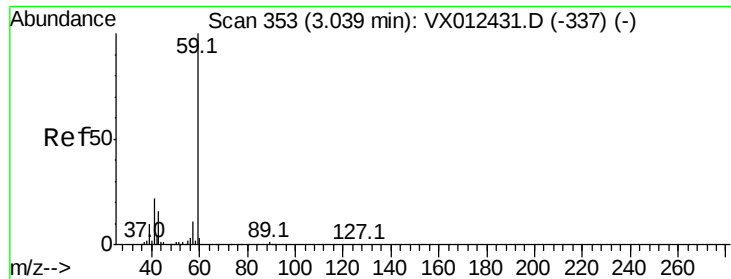


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



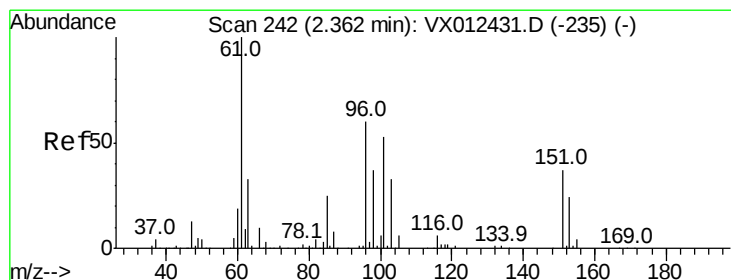
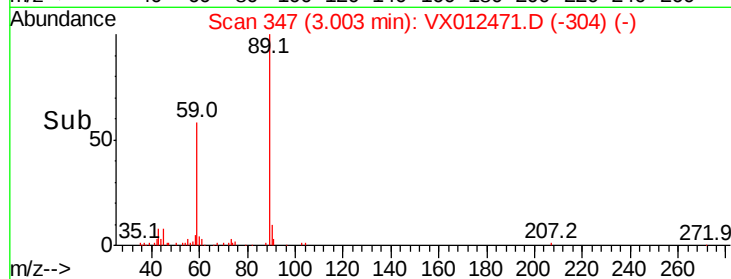
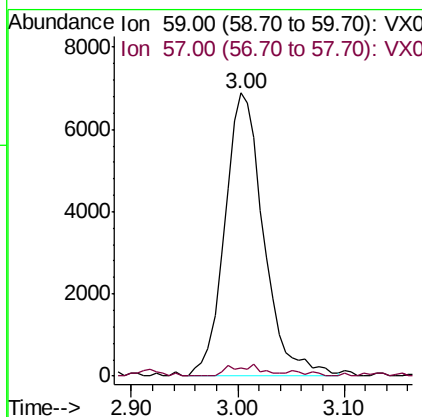
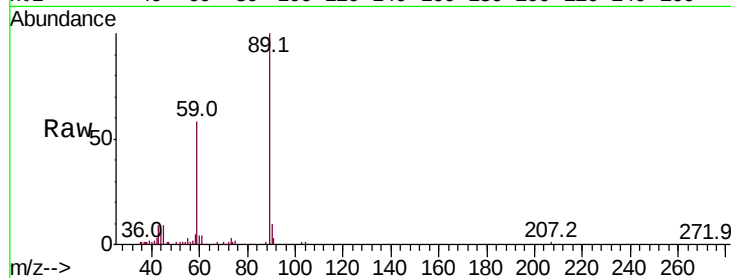


#11

Tert butyl alcohol
 Concen: 21.295 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

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 RE131D2-20190910DL

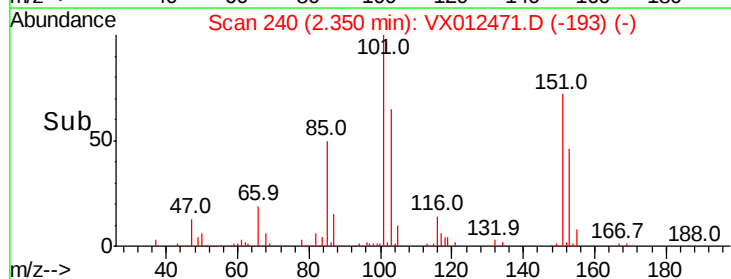
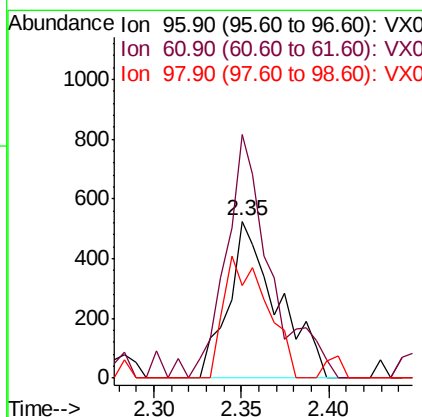
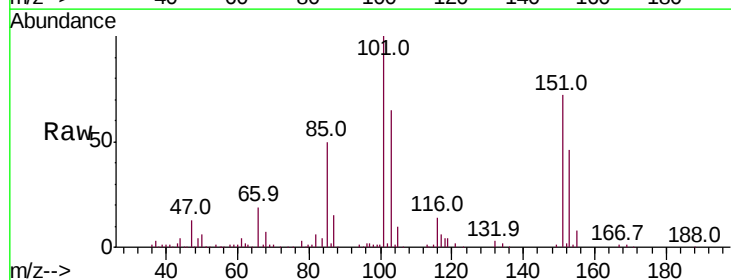
Tot Ion: 59 Resp: 17614
 Ion Ratio Lower Upper
 59 100
 57 1.9 8.3 12.5#

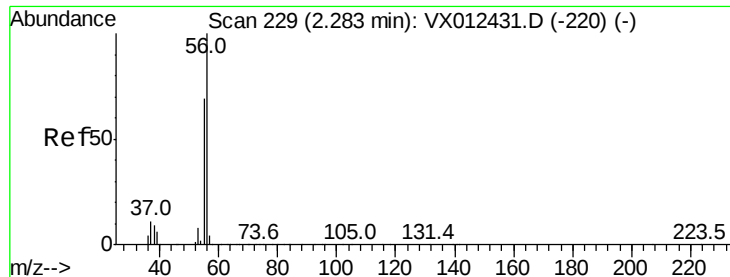


#12

1,1-Dichloroethene
 Concen: 0.897 ug/l
 RT: 2.35 min Scan# 240
 Delta R.T. -0.01 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Tgt Ion: 96 Resp: 1025
 Ion Ratio Lower Upper
 96 100
 61 155.2 133.8 200.6
 98 59.2 49.9 74.9





#13

Acrolein

Concen: Below Cal

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

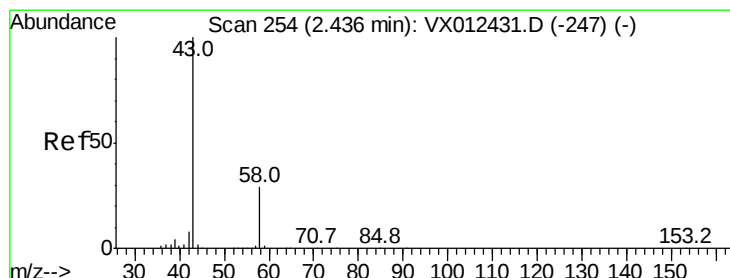
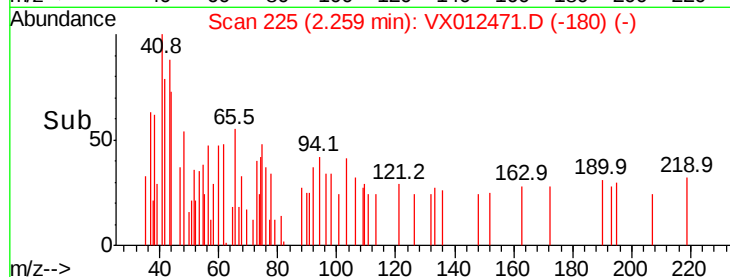
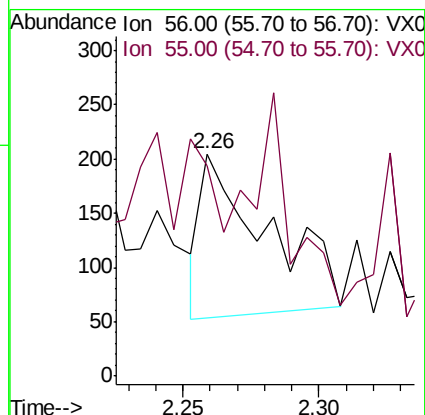
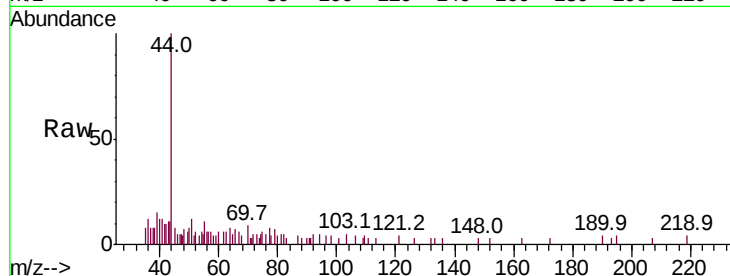
RE131D2-20190910DL

Tot Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012471.D

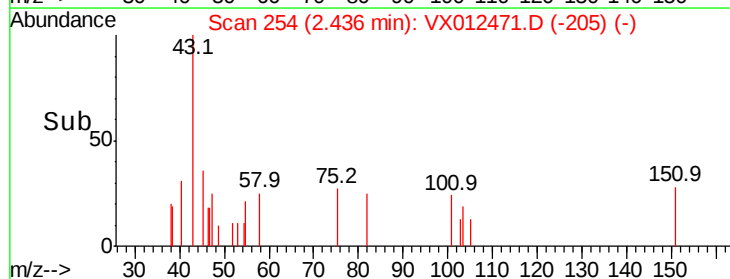
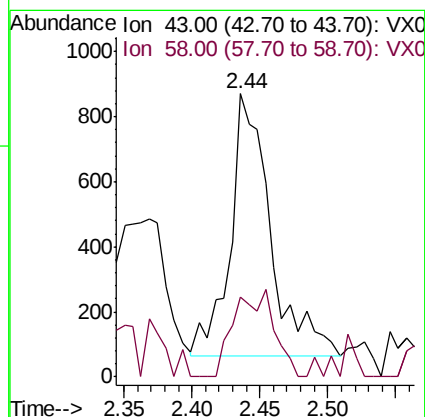
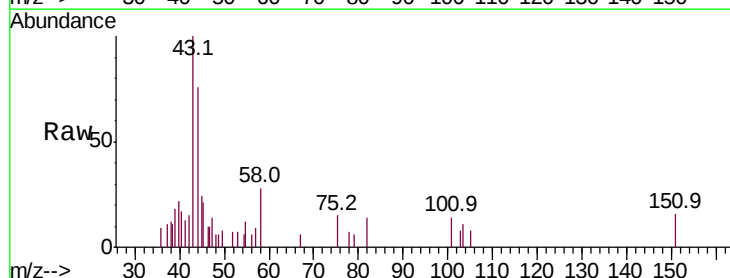
Acq: 18 Sep 2019 14:14

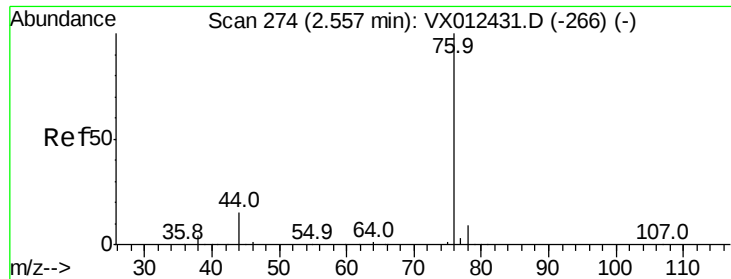
Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

58 30.6 23.3 34.9





#17

Carbon Disulfide

Concen: 1.944 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

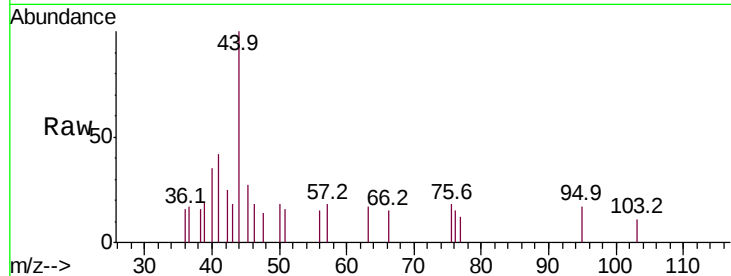
RE131D2-20190910DL

Tot Ion: 76 Resp: 230

Ion Ratio Lower Upper

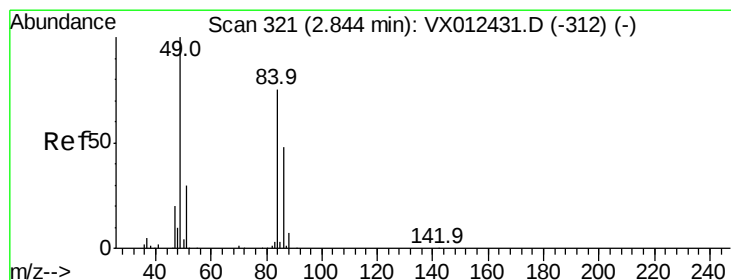
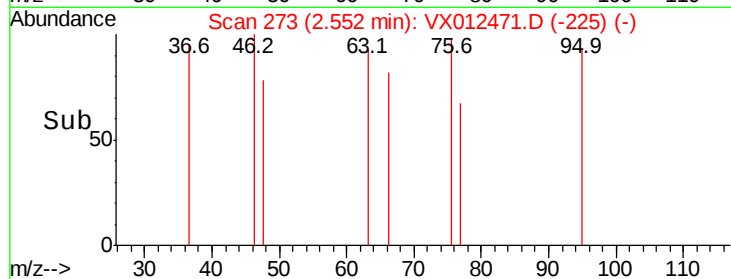
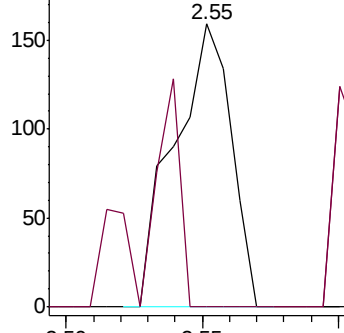
76 100

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

Methylene Chloride

Concen: 0.470 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Tgt Ion: 84 Resp: 741

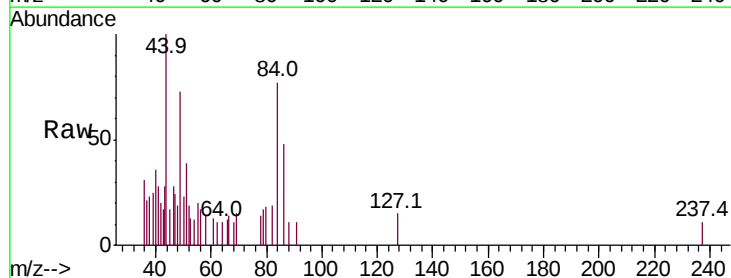
Ion Ratio Lower Upper

84 100

49 95.8 106.8 160.2#

51 51.6 32.3 48.5#

86 62.3 51.3 76.9

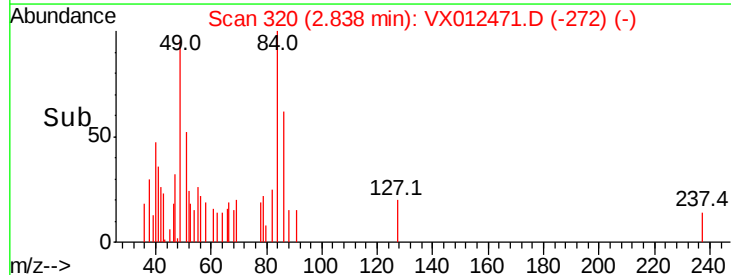
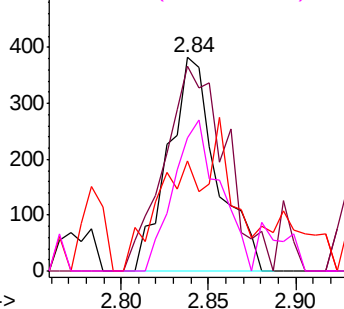


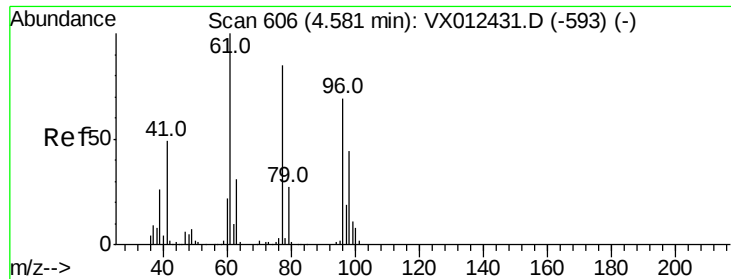
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



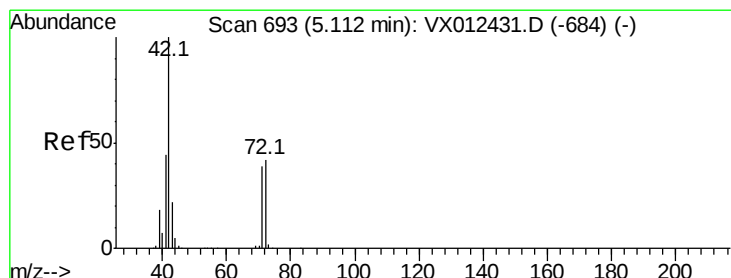
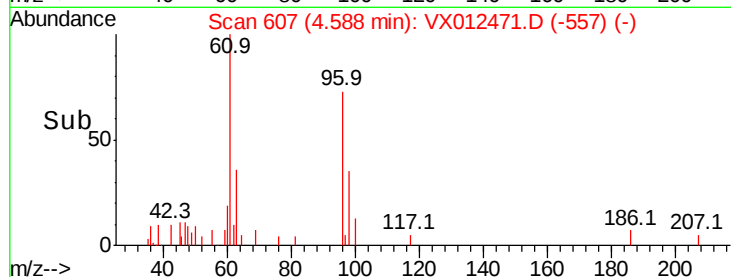
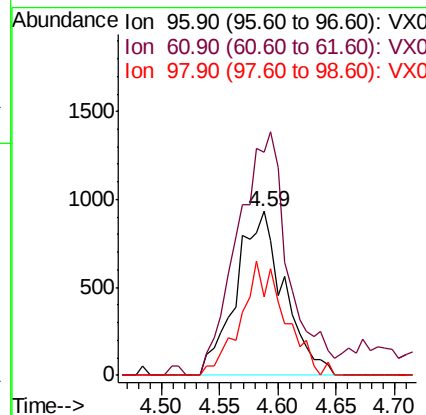
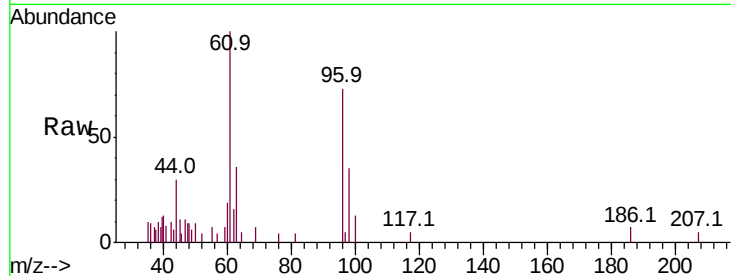


#27

cis-1,2-Dichloroethene
 Concen: 1.510 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20190910DL

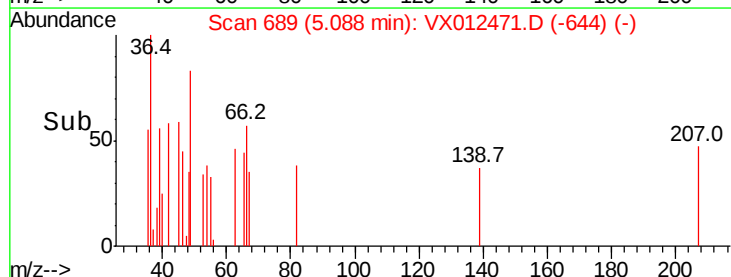
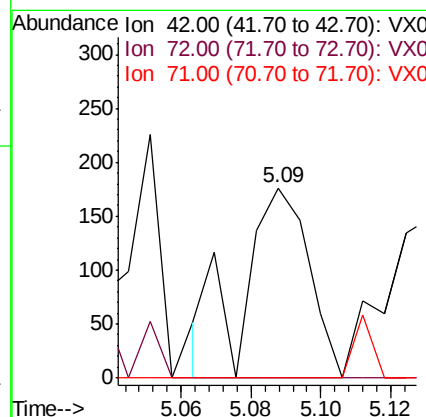
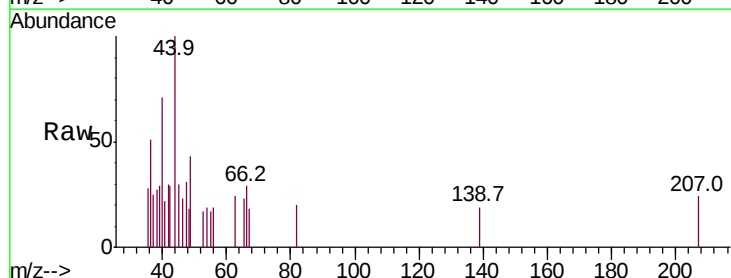
Tot Ion: 96 Resp: 2676
 Ion Ratio Lower Upper
 96 100
 61 157.3 0.0 319.4
 98 62.5 0.0 130.6

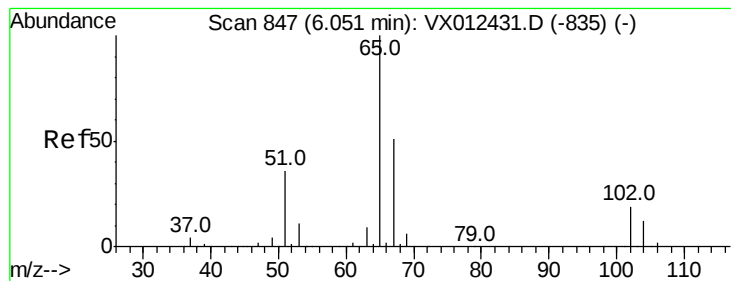


#29

Tetrahydrofuran
 Concen: 0.233 ug/l
 RT: 5.09 min Scan# 689
 Delta R.T. -0.02 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Tgt Ion: 42 Resp: 233
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.0 51.0#
 71 0.0 31.5 47.3#





#33

1,2-Dichloroethane-d4

Concen: 46.595 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

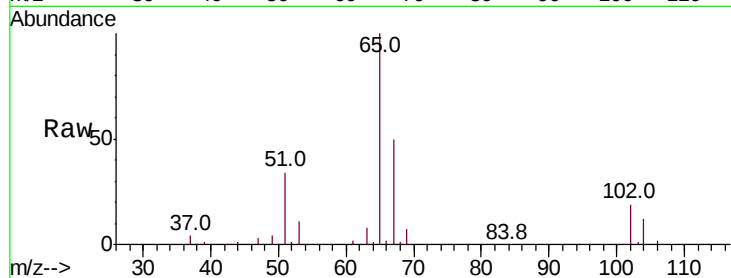
RE131D2-20190910DL

Tot Ion: 65 Resp: 121361

Ion Ratio Lower Upper

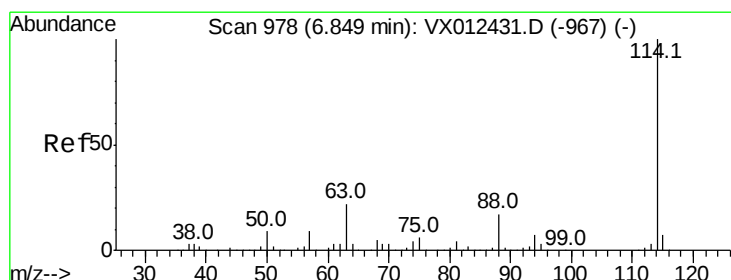
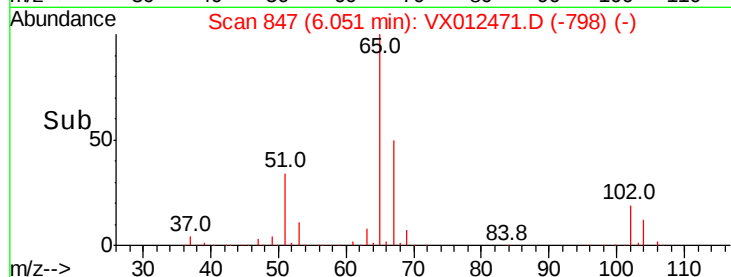
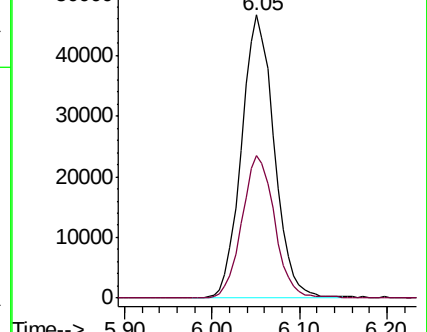
65 100

67 50.5 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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

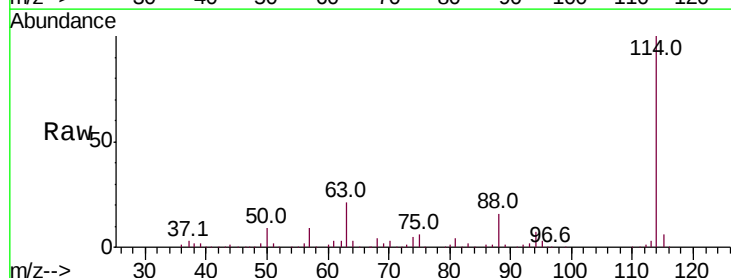
Tgt Ion: 114 Resp: 286109

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

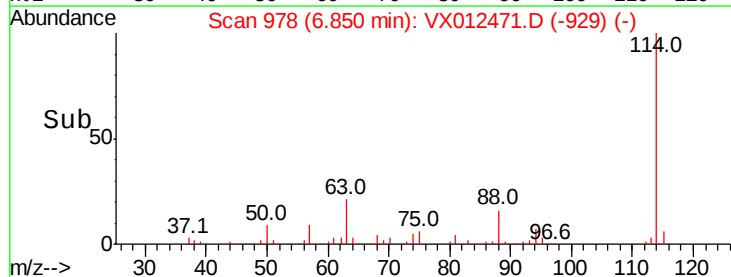
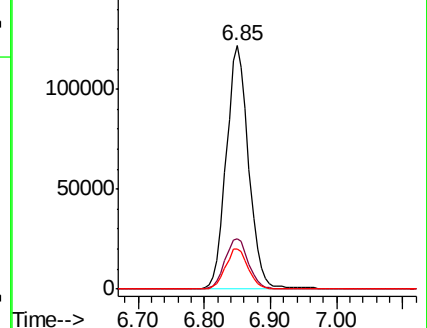
88 16.4 0.0 33.2

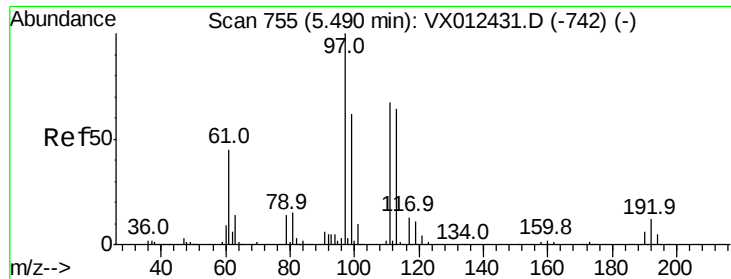


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

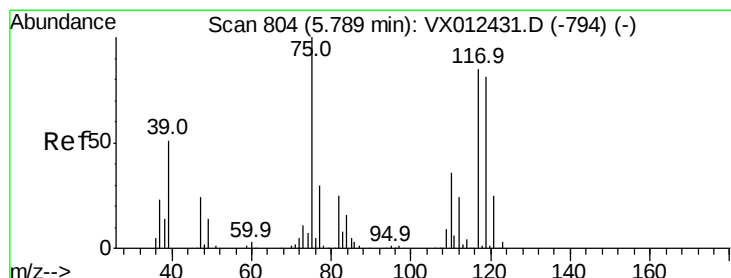
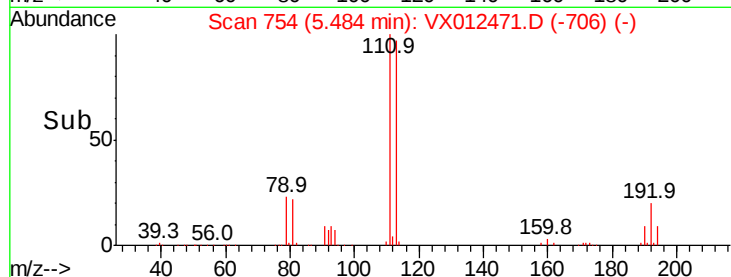
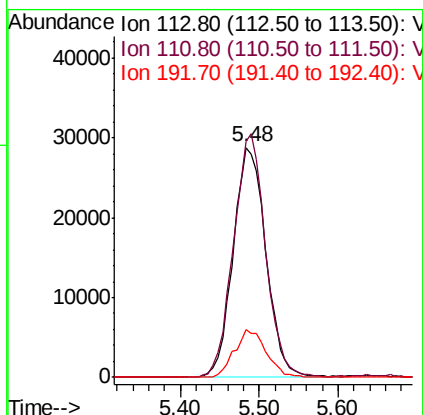
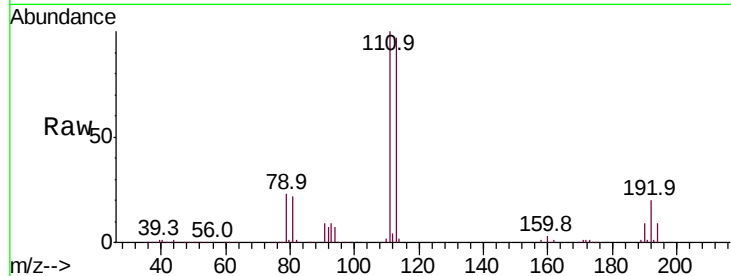




#35
 Dibromofluoromethane
 Concen: 48.143 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

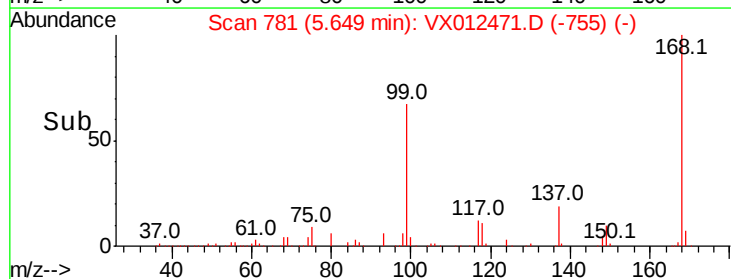
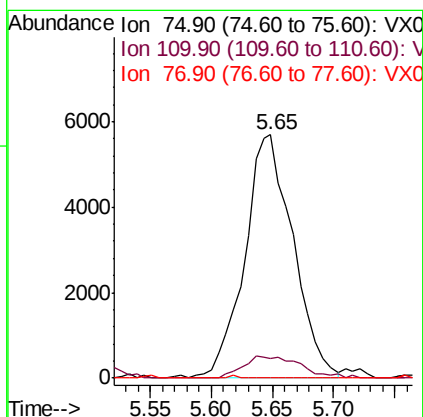
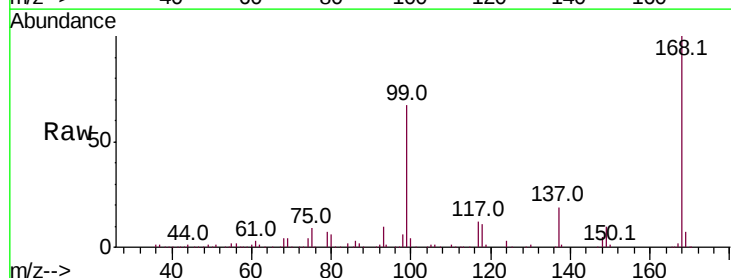
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20190910DL

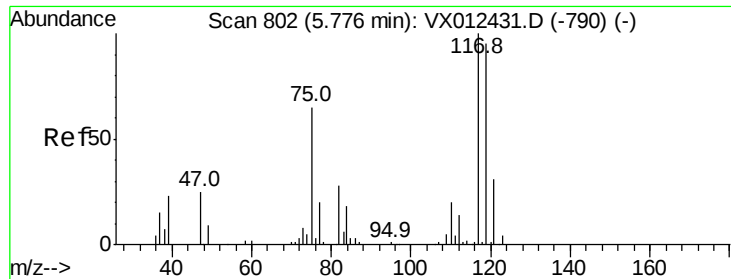
Tot Ion:113 Resp: 83369
 Ion Ratio Lower Upper
 113 100
 111 103.7 83.4 125.2
 192 20.0 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 8.984 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Tgt Ion: 75 Resp: 15622
 Ion Ratio Lower Upper
 75 100
 110 10.8 16.7 50.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 9.223 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20190910DL

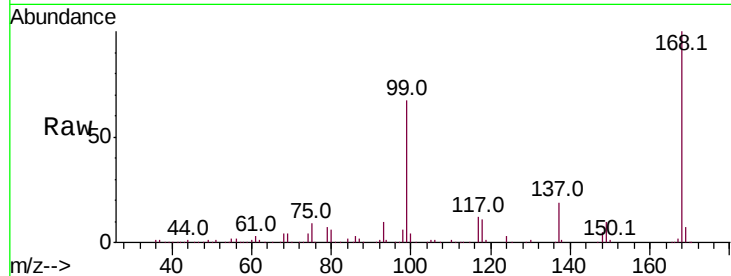
Tot Ion:117 Resp: 19946

Ion Ratio Lower Upper

117 100

119 5.5 75.7 113.5#

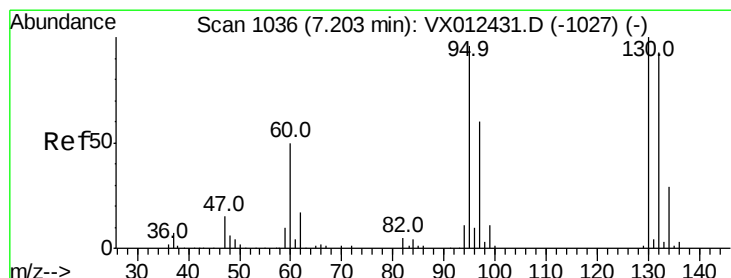
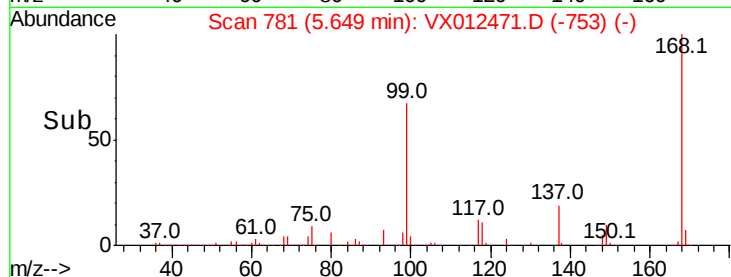
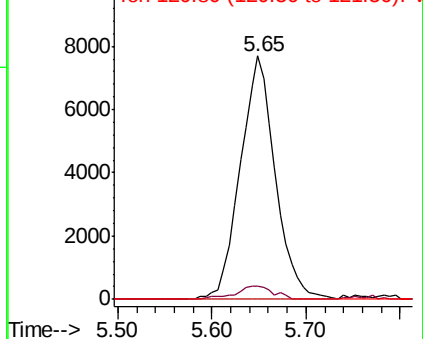
121 0.0 24.2 36.4#



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



#44

Trichloroethene

Concen: 28.480 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX012471.D

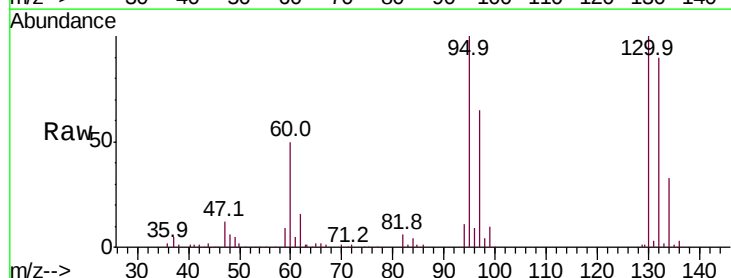
Acq: 18 Sep 2019 14:14

Tgt Ion:130 Resp: 41425

Ion Ratio Lower Upper

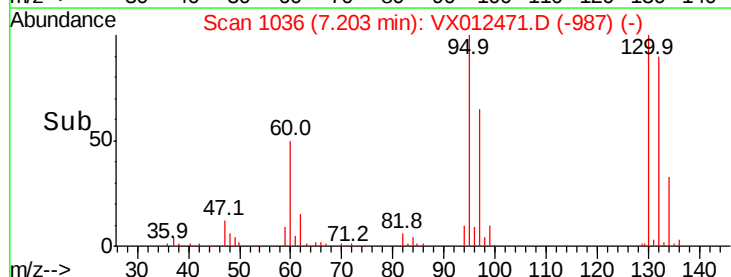
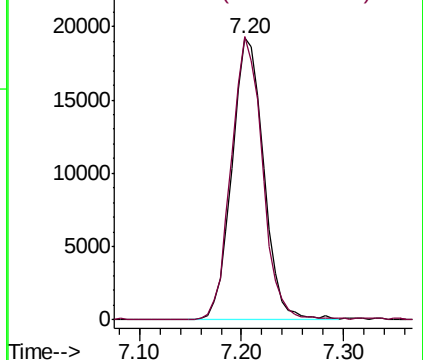
130 100

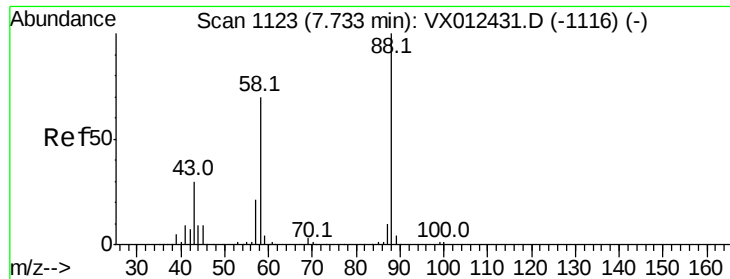
95 100.5 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

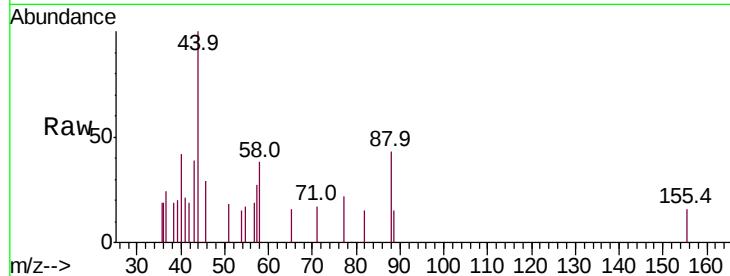




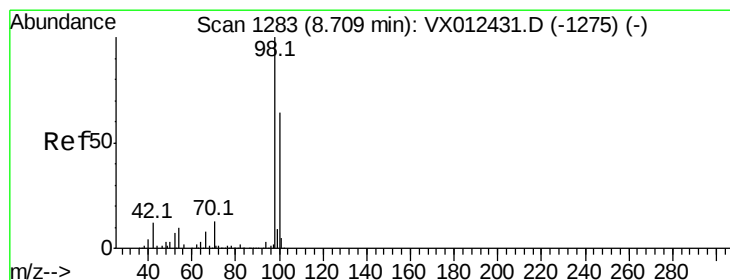
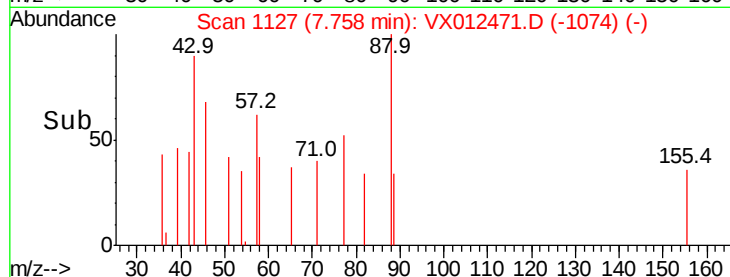
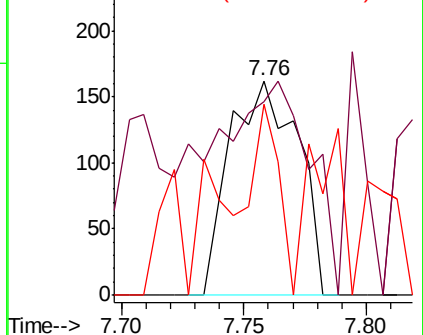
#49
 1,4-Dioxane
 Concen: 5.731 ug/l
 RT: 7.76 min Scan# 1127
 Delta R.T. 0.02 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20190910DL

Tot Ion: 88 Resp: 315
 Ion Ratio Lower Upper
 88 100
 43 144.1 29.4 44.0#
 58 36.2 57.5 86.3#

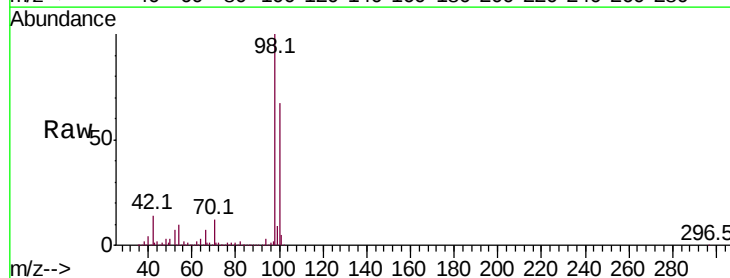


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

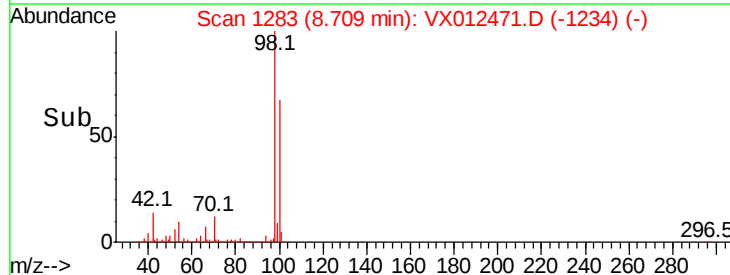
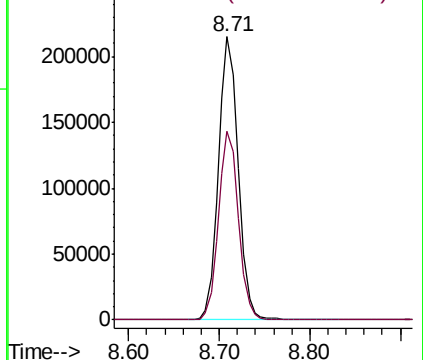


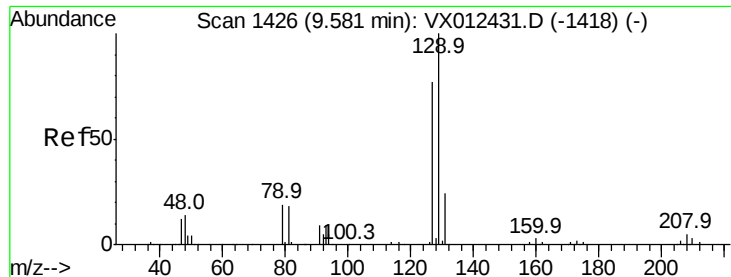
#50
 Toluene-d8
 Concen: 51.231 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX012471.D
 Acq: 18 Sep 2019 14:14

Tgt Ion: 98 Resp: 328378
 Ion Ratio Lower Upper
 98 100
 100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.366 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

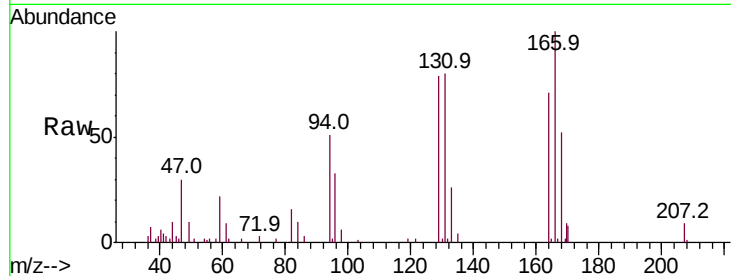
RE131D2-20190910DL

Tot Ion:129 Resp: 4423

Ion Ratio Lower Upper

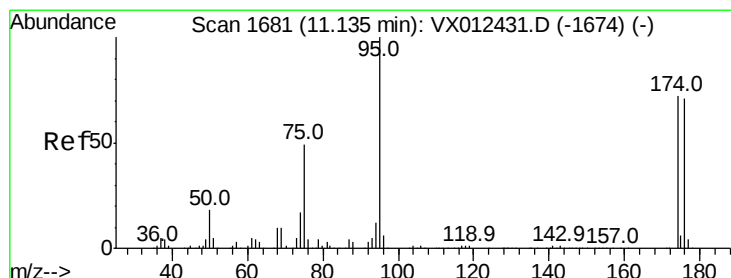
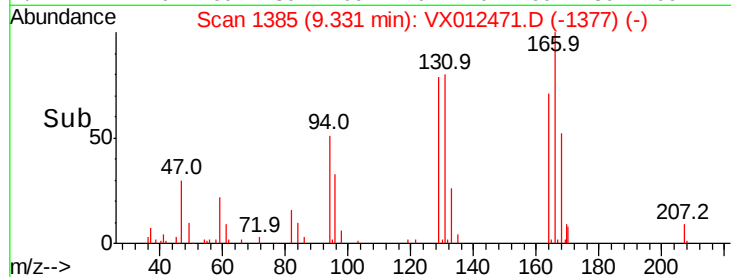
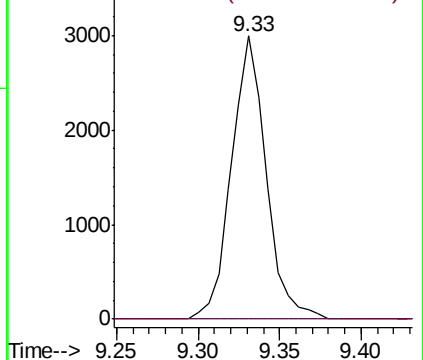
129 100

127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.184 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

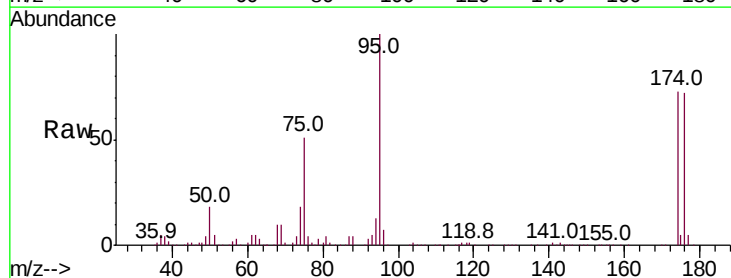
Tgt Ion: 95 Resp: 125575

Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.0

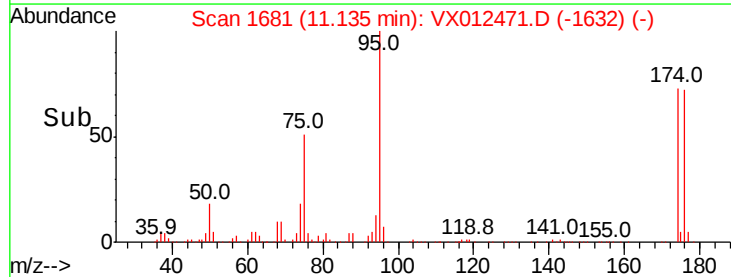
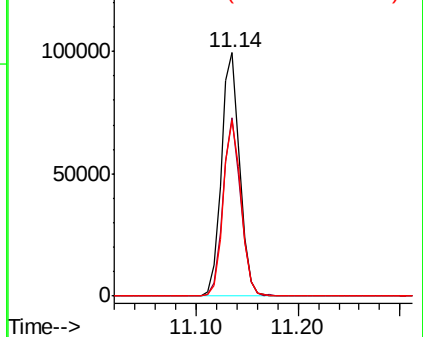
176 69.8 0.0 135.4

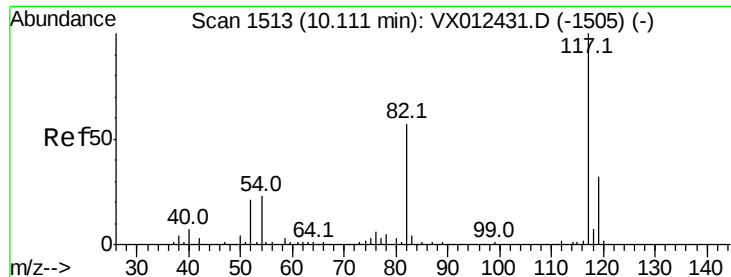


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

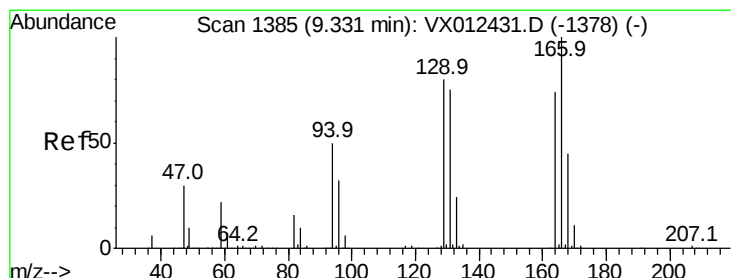
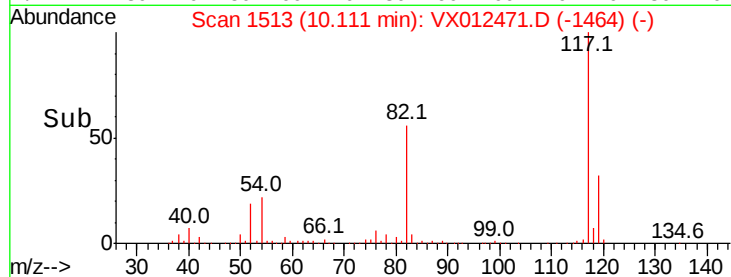
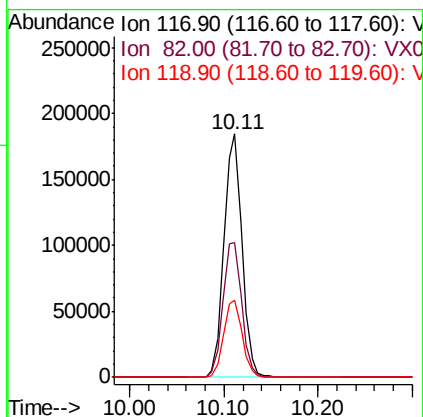
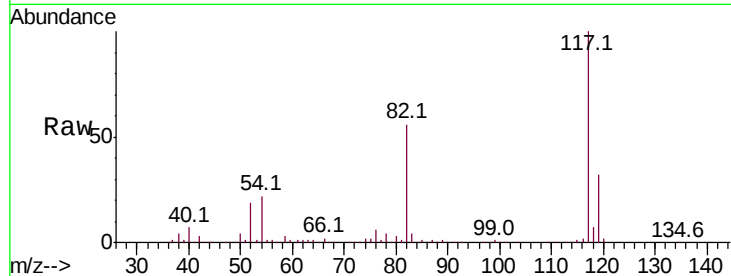




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012471.D
Acq: 18 Sep 2019 14:14

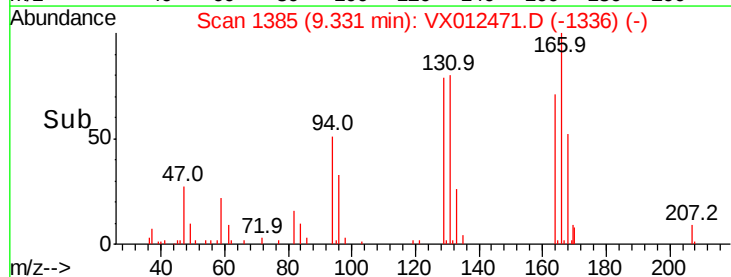
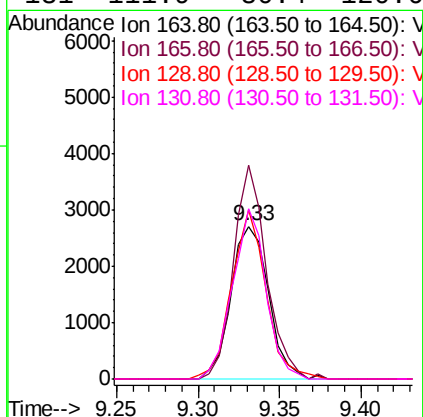
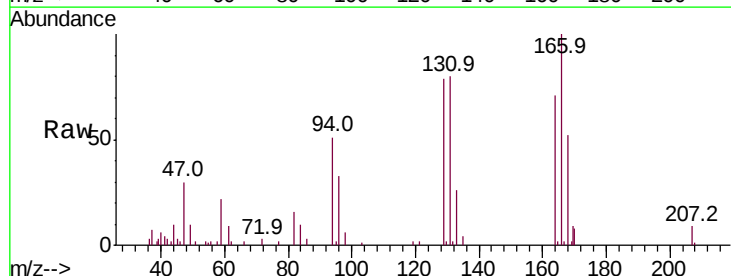
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20190910DL

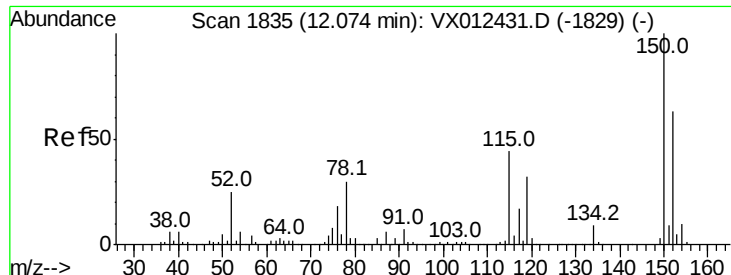
Tot Ion:117 Resp: 245489
Ion Ratio Lower Upper
117 100
82 55.6 45.9 68.9
119 31.8 25.3 37.9



#64
Tetrachloroethene
Concen: 3.860 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012471.D
Acq: 18 Sep 2019 14:14

Tgt Ion:164 Resp: 4342
Ion Ratio Lower Upper
164 100
166 140.2 107.8 161.6
129 110.8 86.2 129.2
131 111.9 80.4 120.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20190910DL

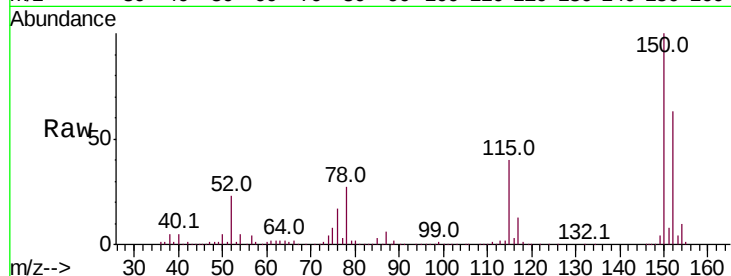
Tot Ion:152 Resp: 106335

Ion Ratio Lower Upper

152 100

115 62.8 44.1 132.3

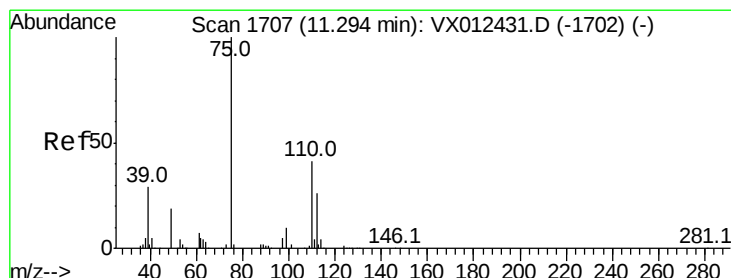
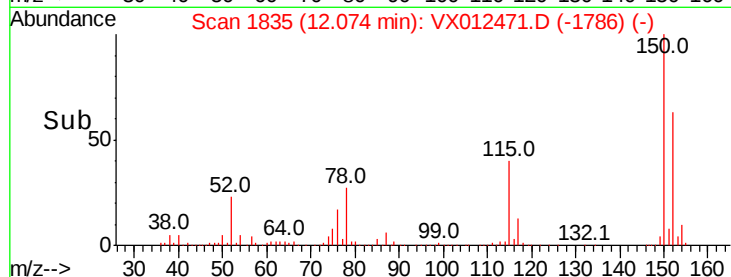
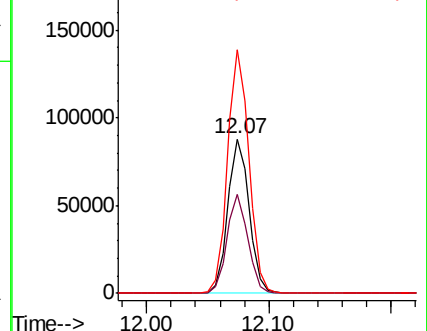
150 157.6 0.0 343.8



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: 26.287 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012471.D

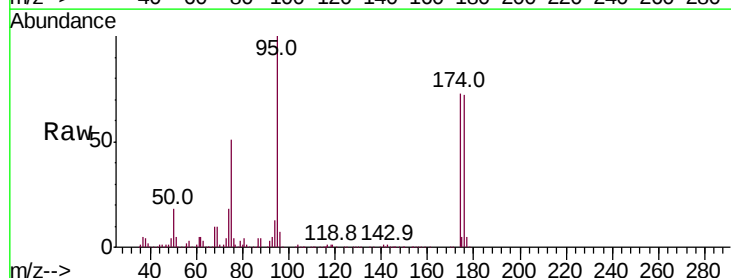
Acq: 18 Sep 2019 14:14

Tgt Ion: 75 Resp: 64208

Ion Ratio Lower Upper

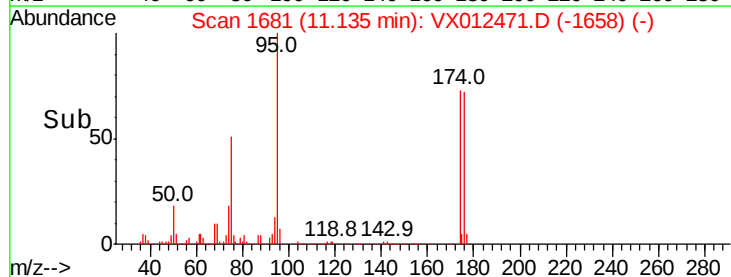
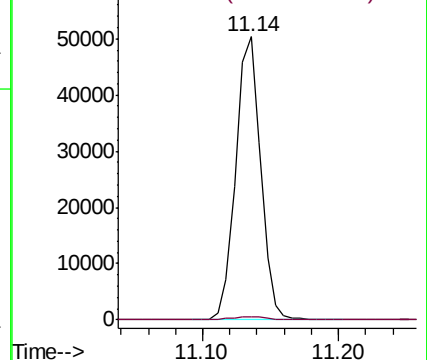
75 100

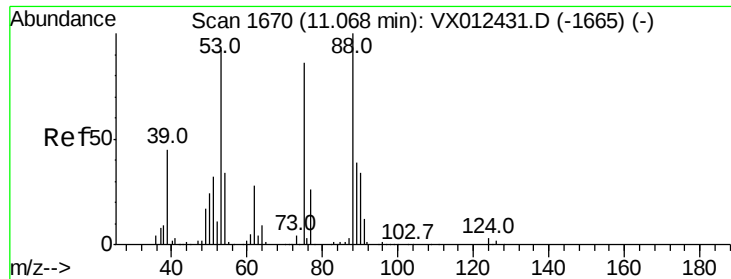
77 1.4 19.7 59.0#



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: 70.794 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012471.D

Acq: 18 Sep 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20190910DL

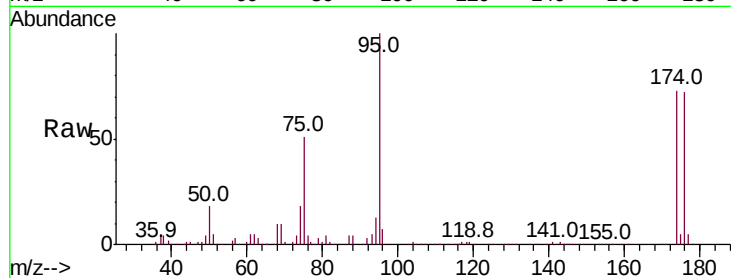
Tot Ion: 75 Resp: 64208

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

