

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015253.D
 Acq On : 13 Mar 2020 12:42
 Operator : JC/SP
 Sample : L1903-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D2-20200311

Quant Time: Mar 16 08:18:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	251368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	403238	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	391873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	197941	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	142748	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
35) Dibromofluoromethane	5.49	113	122045	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	8.71	98	492821	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.14	95	181317	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	

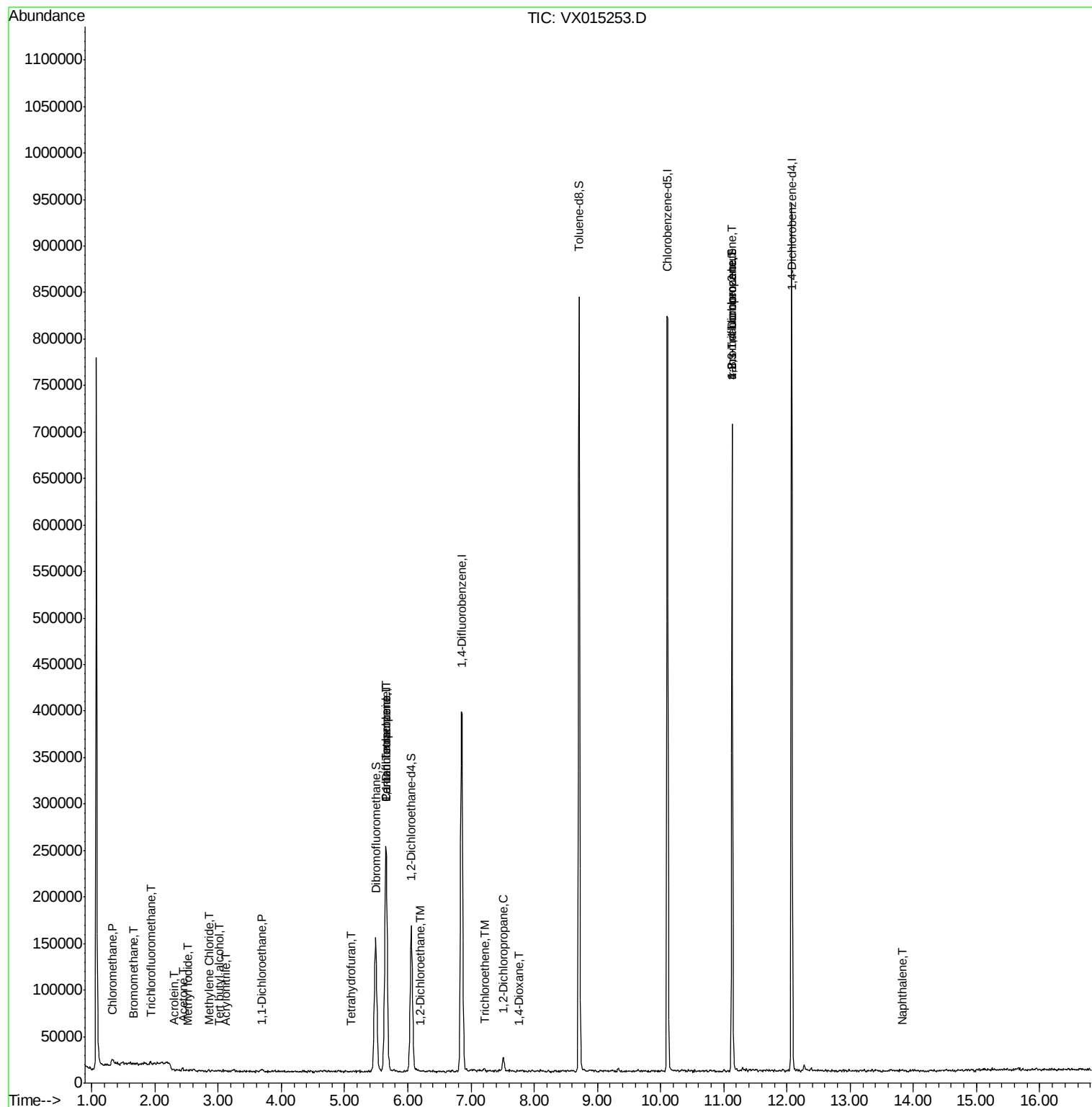
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1018	0.326	ug/l	90
5) Bromomethane	1.66	94	394	0.203	ug/l #	24
7) Trichlorofluoromethane	1.92	101	762	0.203	ug/l #	65
10) Methyl Iodide	2.53	142	798	0.298	ug/l #	88
11) Tert butyl alcohol	3.02	59	253	0.489	ug/l #	1
13) Acrolein	2.30	56	304	0.625	ug/l #	69
15) Acrylonitrile	3.12	53	299	0.232	ug/l #	69
16) Acetone	2.44	43	5365	4.442	ug/l #	84
20) Methylene Chloride	2.84	84	1030	0.364	ug/l #	66
24) 1,1-Dichloroethane	3.69	63	2114	0.449	ug/l #	76
29) Tetrahydrofuran	5.10	42	424	0.372	ug/l #	54
36) 1,1-Dichloropropene	5.66	75	17081	4.582	ug/l #	53
38) Carbon Tetrachloride	5.65	117	23059	6.553	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	1247	0.328	ug/l #	60
44) Trichloroethene	7.22	130	1079	0.350	ug/l	79
45) 1,2-Dichloropropane	7.51	63	6720	2.347	ug/l	98
49) 1,4-Dioxane	7.75	88	134	2.002	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	87058	22.049	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	87058	62.576	ug/l #	11
95) Naphthalene	13.84	128	642	1.467	ug/l #	73

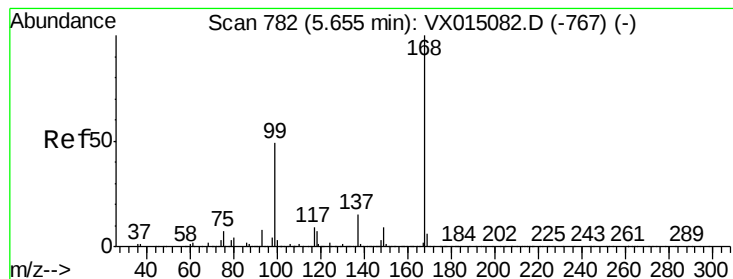
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

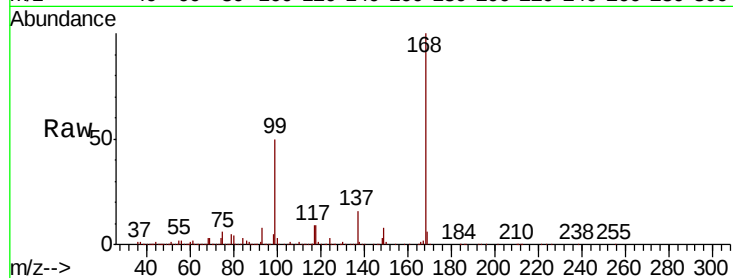
RE135D2-20200311

Tot Ion:168 Resp: 251368

Ion Ratio Lower Upper

168 100

99 49.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

100000

80000

60000

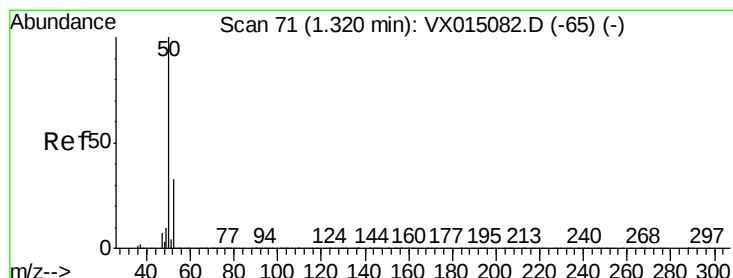
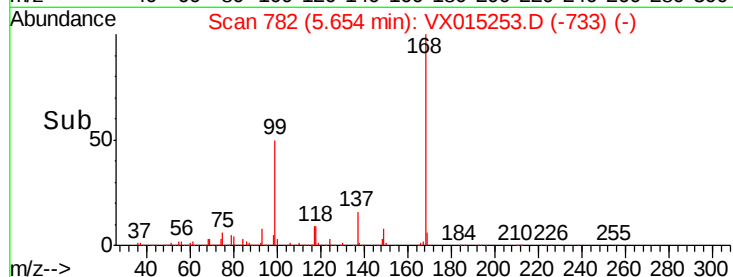
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.326 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015253.D

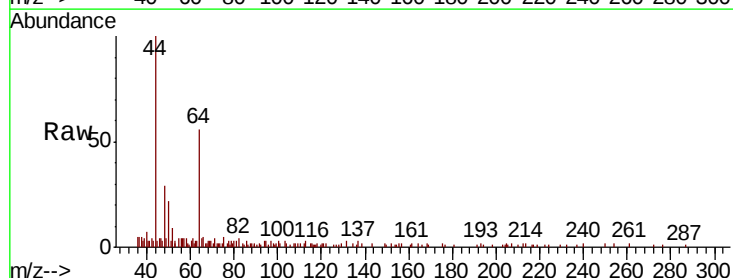
Acq: 13 Mar 2020 12:42

Tgt Ion: 50 Resp: 1018

Ion Ratio Lower Upper

50 100

52 38.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

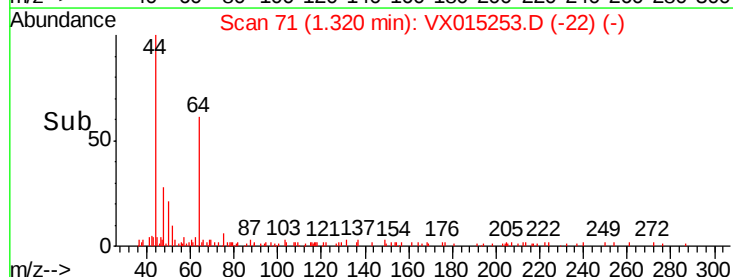
400

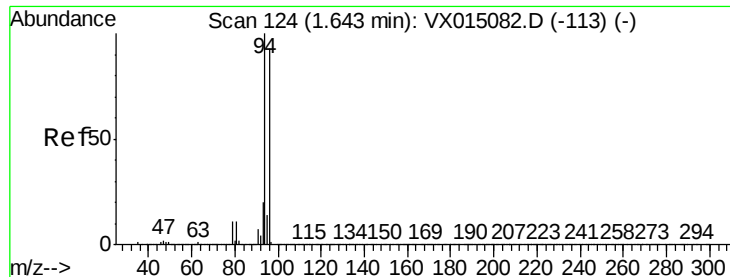
200

0

Time-->

1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

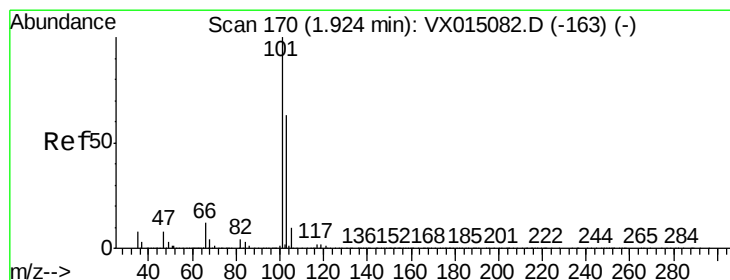
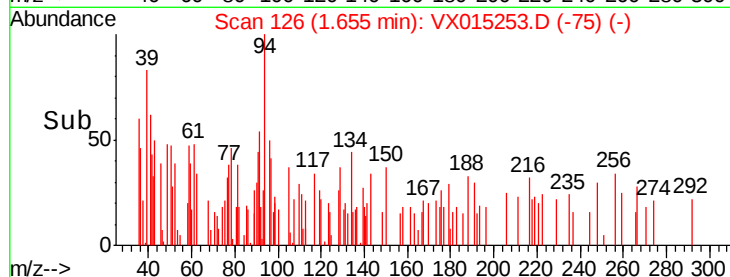
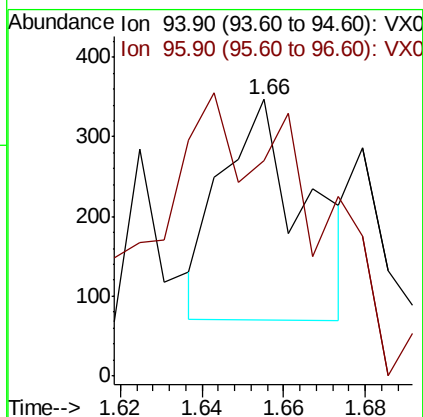
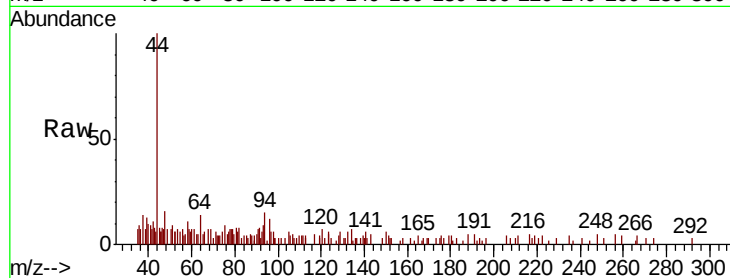
RE135D2-20200311

Tot Ion: 94 Resp: 394

Ion Ratio Lower Upper

94 100

96 20.3 74.6 111.8#



#7

Trichlorofluoromethane

Concen: 0.203 ug/l

RT: 1.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX015253.D

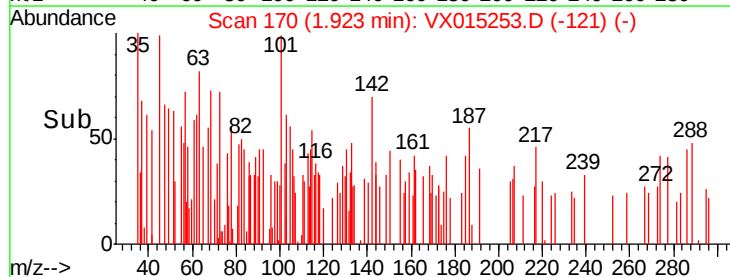
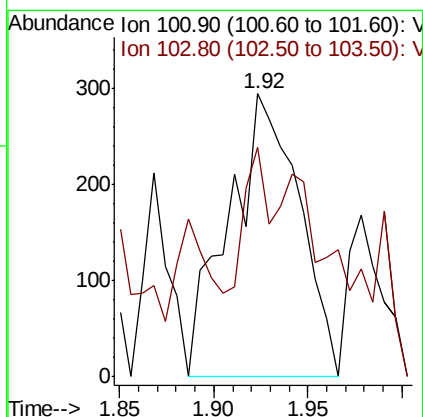
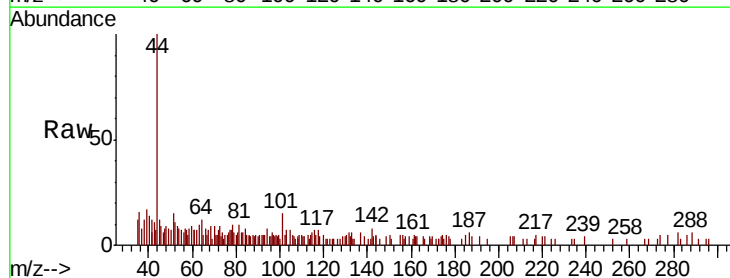
Acq: 13 Mar 2020 12:42

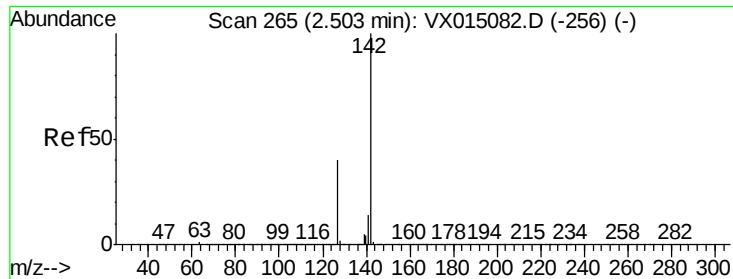
Tgt Ion: 101 Resp: 762

Ion Ratio Lower Upper

101 100

103 36.1 50.4 75.6#

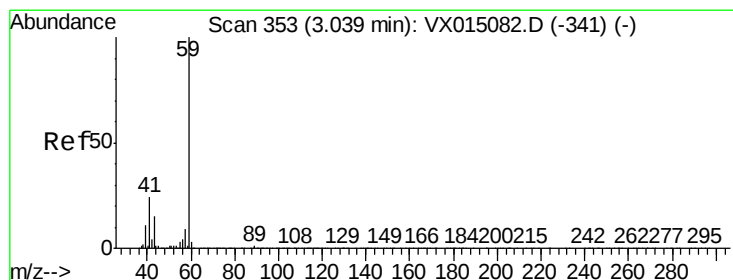
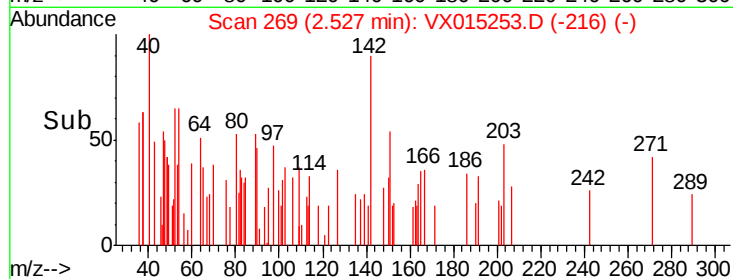
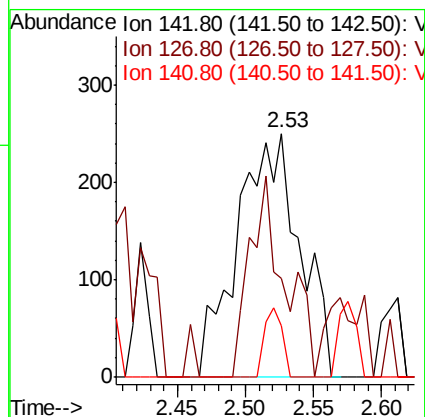
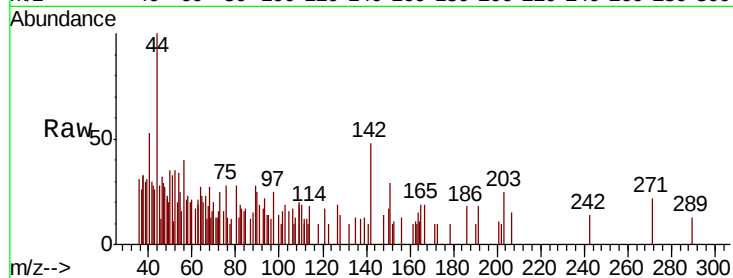




#10
Methvl Iodide
Concen: 0.298 ug/l
RT: 2.53 min Scan# 269
Delta R.T. 0.02 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

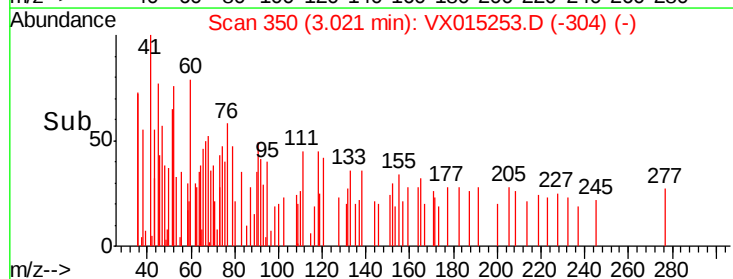
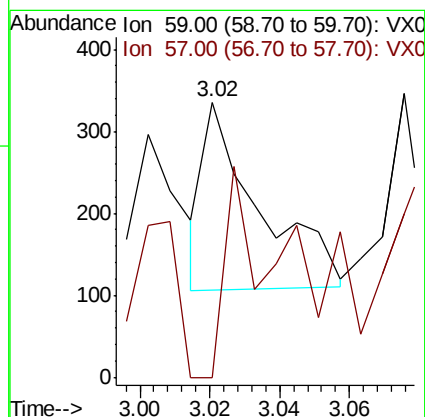
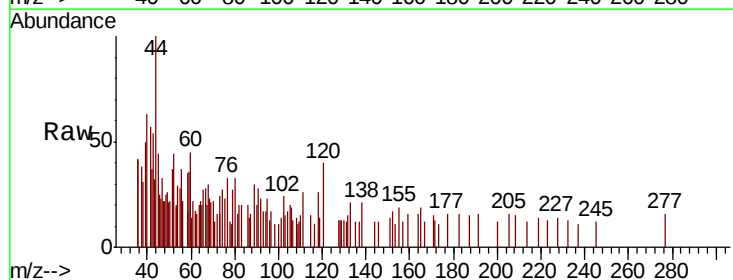
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20200311

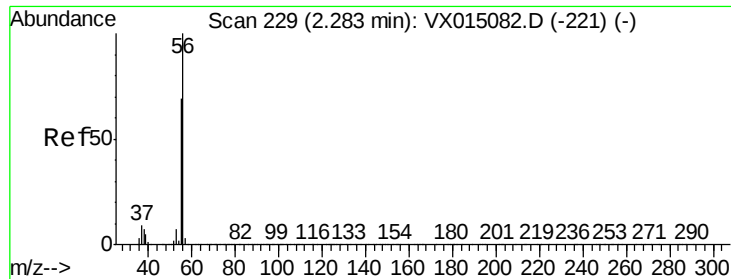
Tot Ion:142 Resp: 798
Ion Ratio Lower Upper
142 100
127 46.7 31.7 47.5
141 8.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.489 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

Tgt Ion: 59 Resp: 253
Ion Ratio Lower Upper
59 100
57 73.1 8.2 12.4#

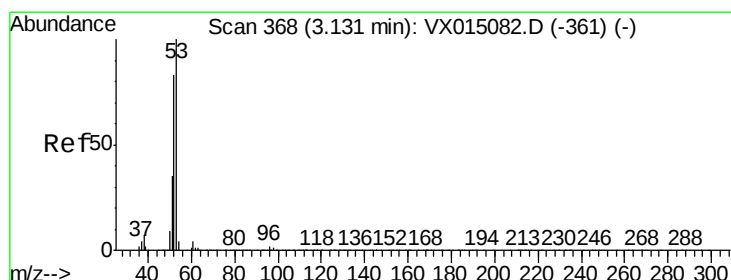
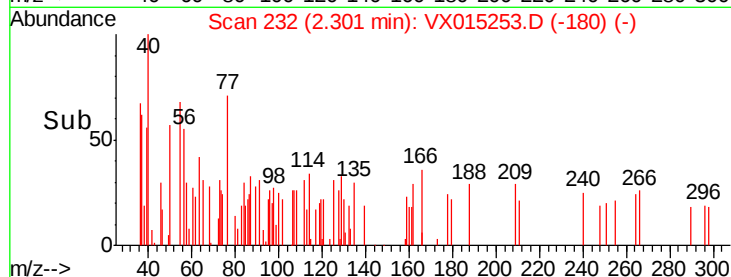
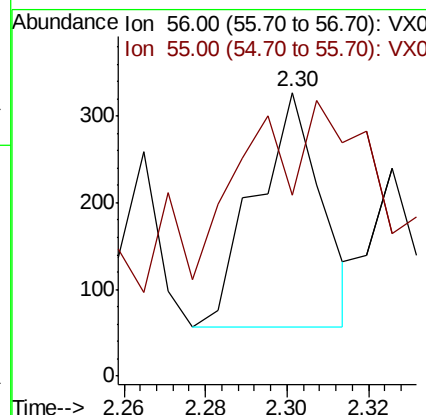
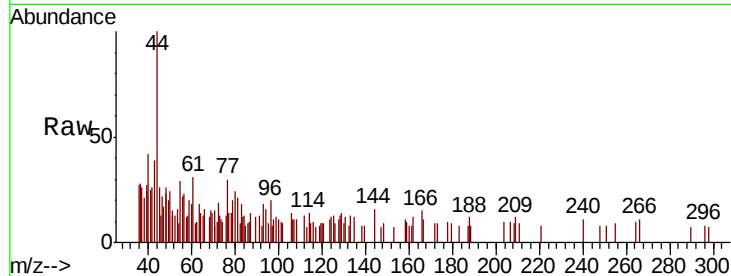




#13
Acrolein
Concen: 0.625 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

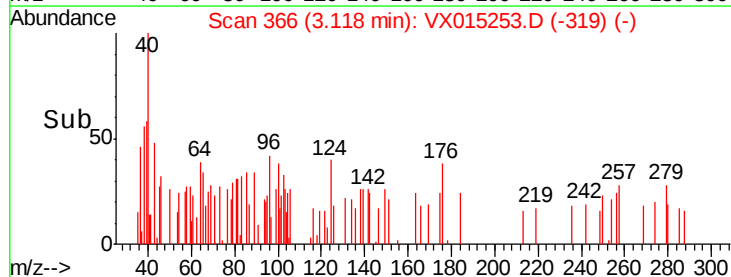
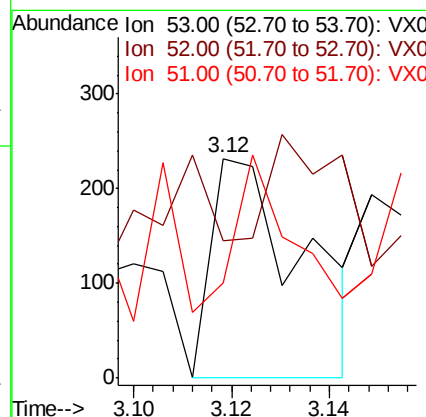
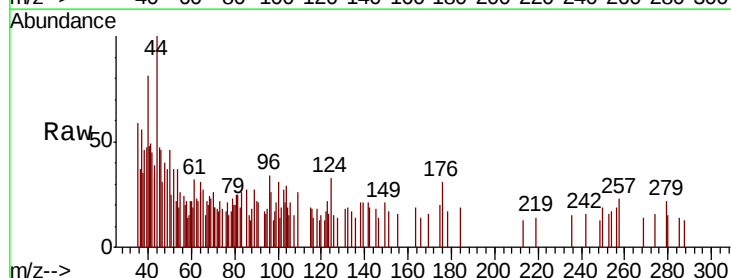
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20200311

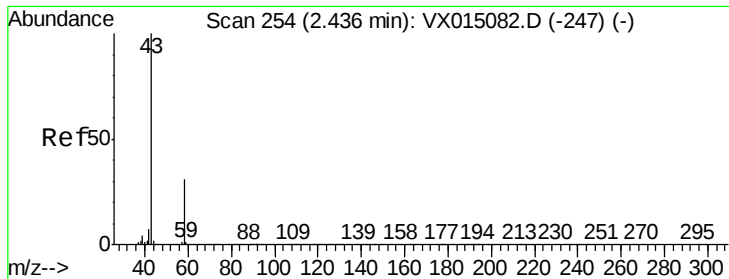
Tot Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 94.1 55.4 83.0#



#15
Acrylonitrile
Concen: 0.232 ug/l
RT: 3.12 min Scan# 366
Delta R.T. -0.01 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

Tgt Ion: 53 Resp: 299
Ion Ratio Lower Upper
53 100
52 59.9 66.6 100.0#
51 60.5 29.0 43.6#





#16

Acetone

Concen: 4.442 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

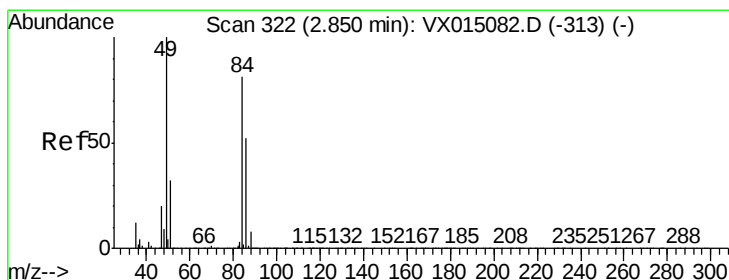
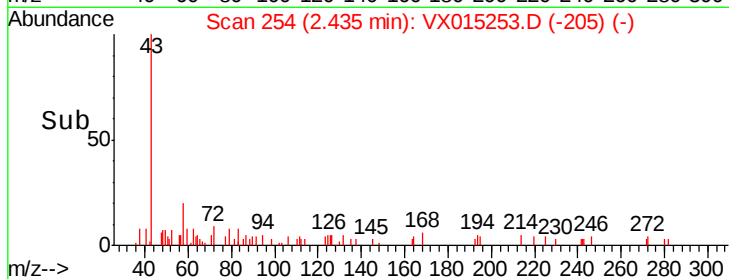
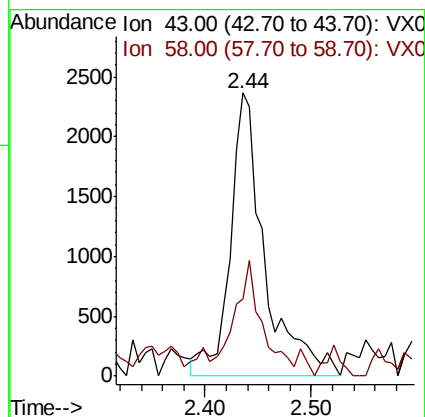
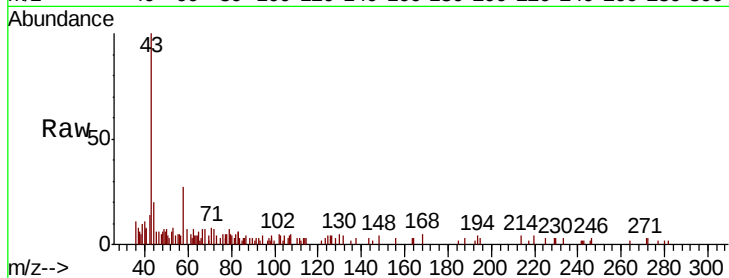
RE135D2-20200311

Tot Ion: 43 Resp: 5365

Ion Ratio Lower Upper

43 100

58 22.1 24.8 37.2#



#20

Methylene Chloride

Concen: 0.364 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Tgt Ion: 84 Resp: 1030

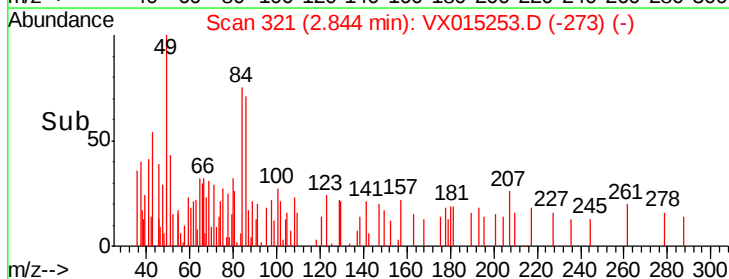
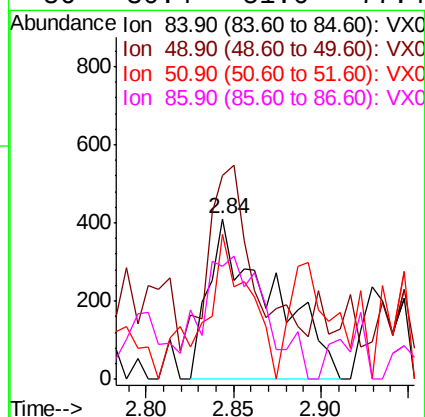
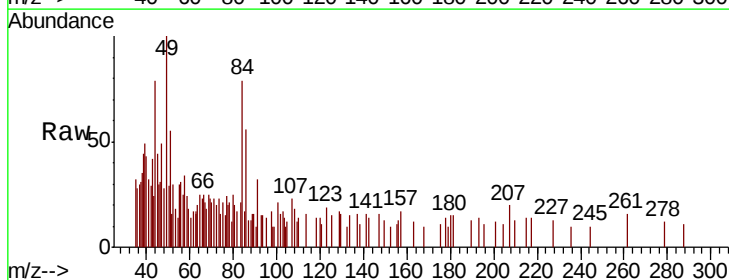
Ion Ratio Lower Upper

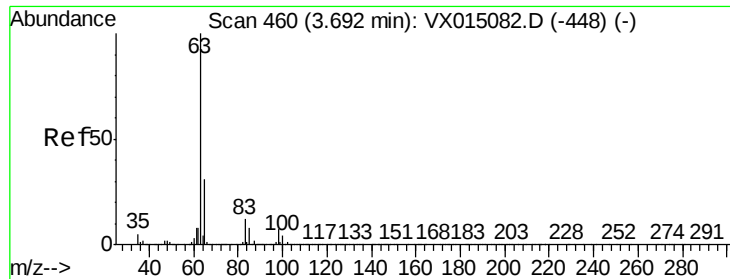
84 100

49 96.1 99.4 149.2#

51 69.8 31.5 47.3#

86 30.4 51.6 77.4#





#24

1,1-Dichloroethane

Concen: 0.449 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20200311

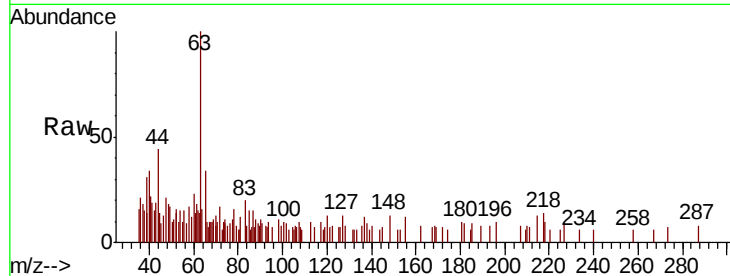
Tot Ion: 63 Resp: 2114

Ion Ratio Lower Upper

63 100

98 4.7 3.7 11.1

100 21.7 2.1 6.5#



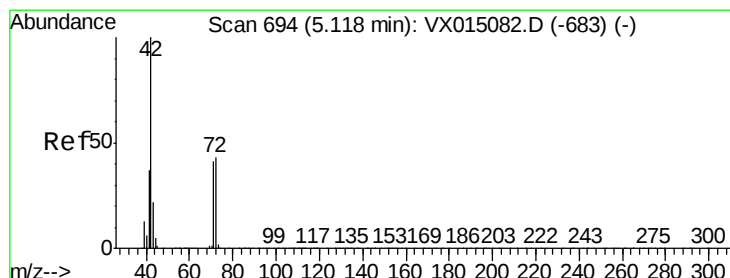
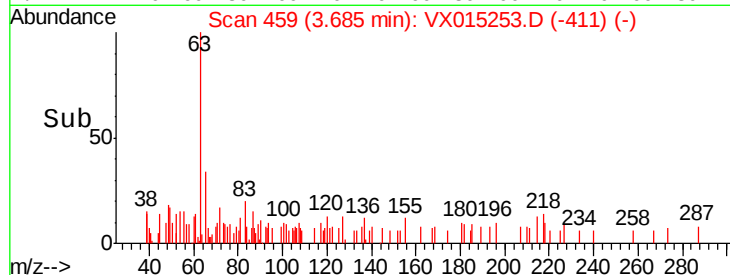
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.69

Time--> 3.60 3.65 3.70 3.75



#29

Tetrahydrofuran

Concen: 0.372 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.02 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

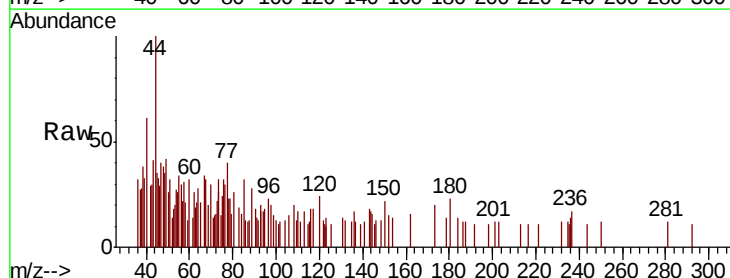
Tgt Ion: 42 Resp: 424

Ion Ratio Lower Upper

42 100

72 97.9 36.4 54.6#

71 35.6 33.3 49.9



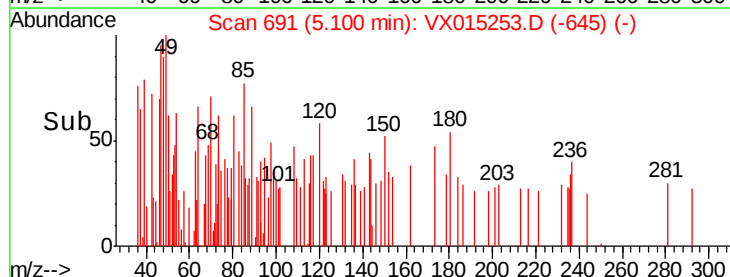
Abundance Ion 42.00 (41.70 to 42.70): VX0

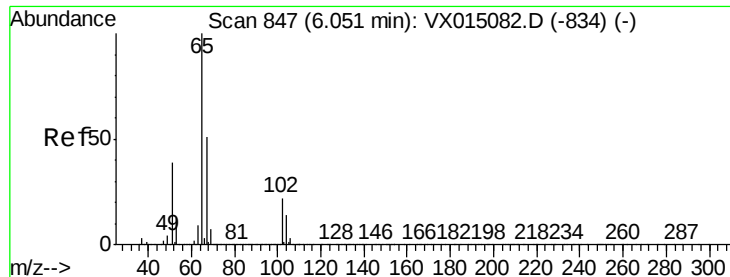
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.10

Time--> 5.06 5.08 5.10 5.12





#33

1,2-Dichloroethane-d4

Concen: 47.867 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

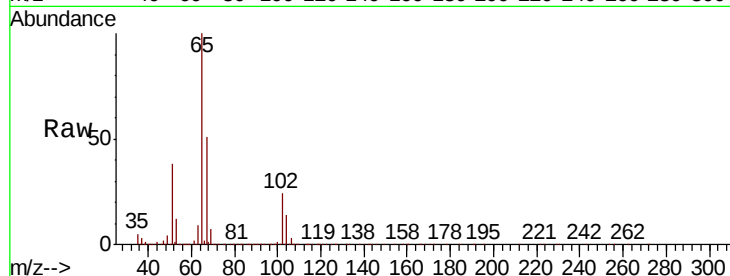
RE135D2-20200311

Tot Ion: 65 Resp: 142748

Ion Ratio Lower Upper

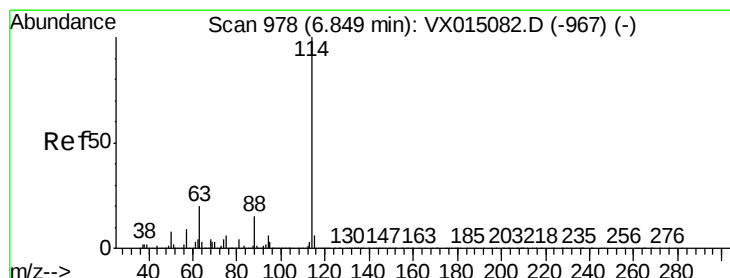
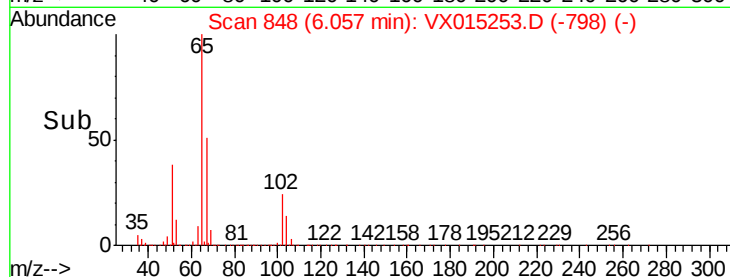
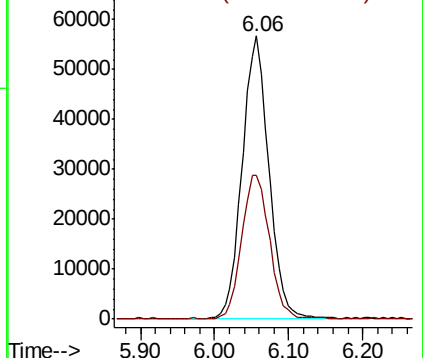
65 100

67 52.5 0.0 105.6



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: VX015253.D

Acq: 13 Mar 2020 12:42

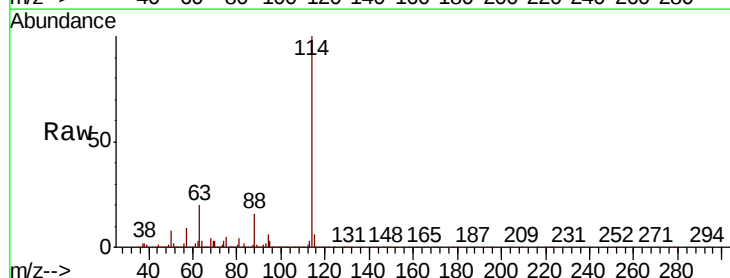
Tgt Ion: 114 Resp: 403238

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

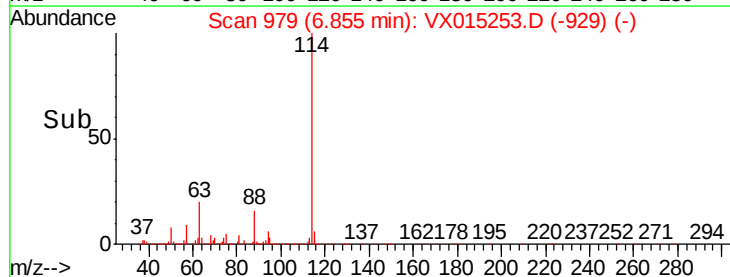
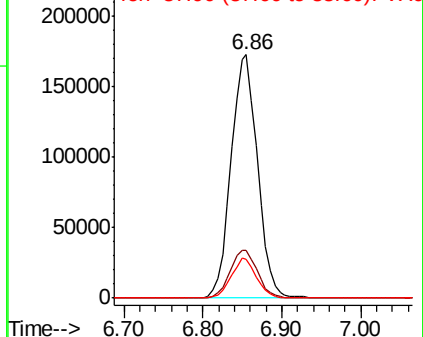
88 15.8 0.0 30.6

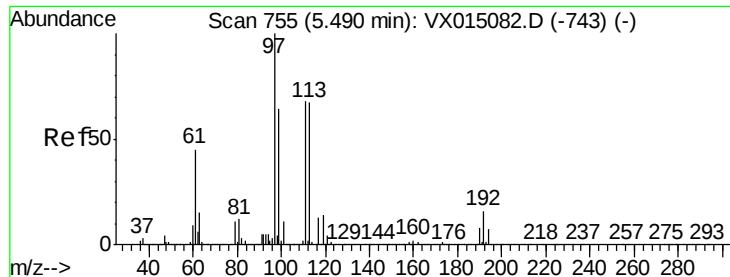


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

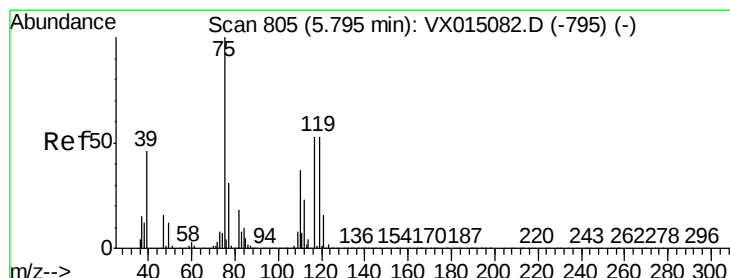
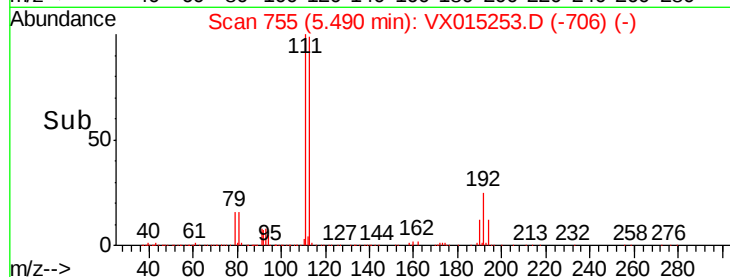
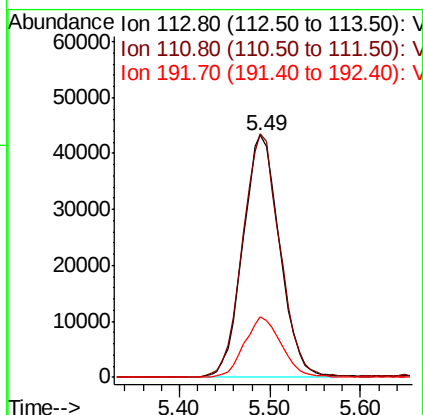
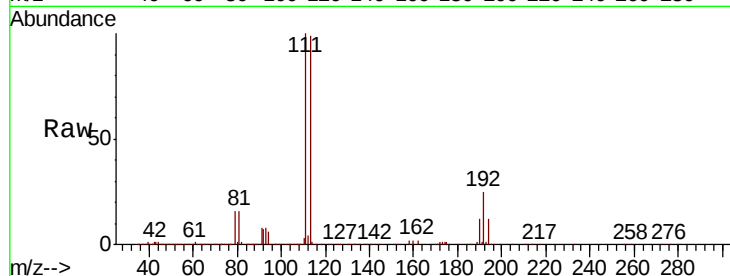




#35
Dibromofluoromethane
Concen: 47.975 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

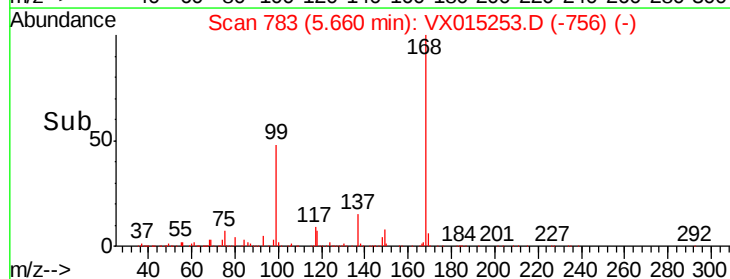
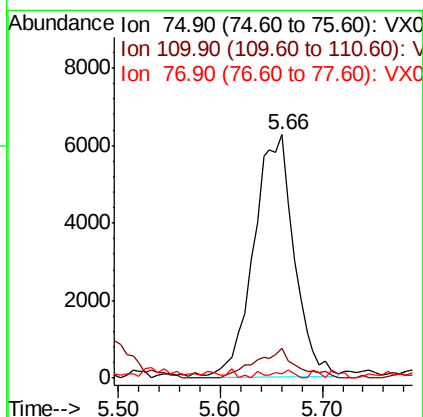
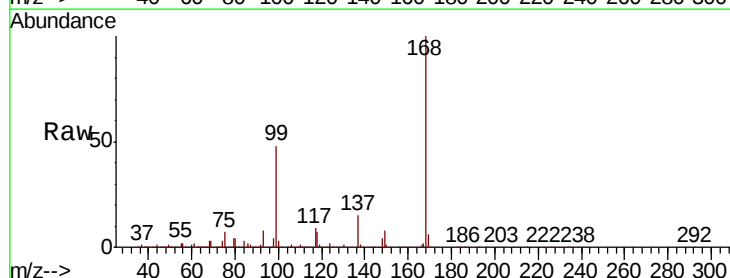
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20200311

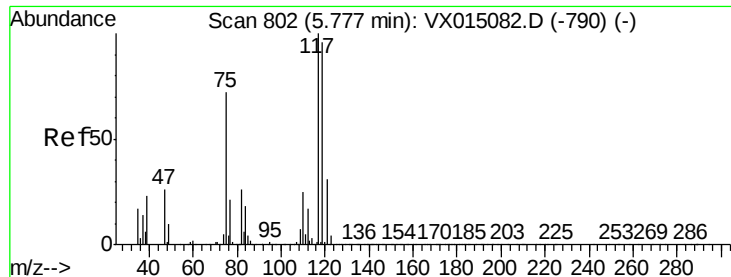
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.6	123.8
192	25.1	18.6	28.0



#36
1,1-Dichloropropene
Concen: 4.582 ug/l
RT: 5.66 min Scan# 783
Delta R.T. -0.13 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.4	17.9	53.8#
77	1.2	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.553 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20200311

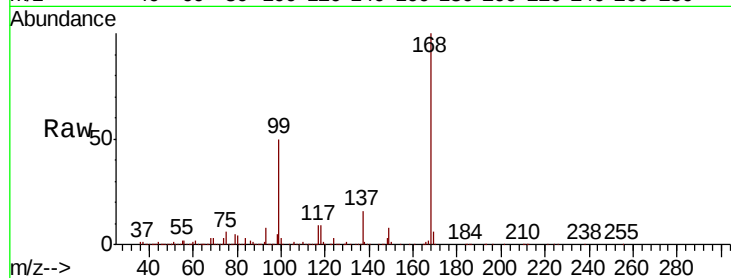
Tot Ion:117 Resp: 23059

Ion Ratio Lower Upper

117 100

119 5.9 76.9 115.3#

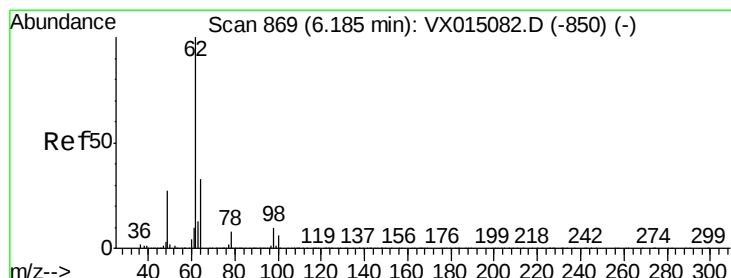
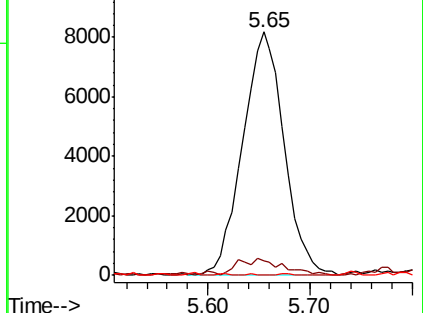
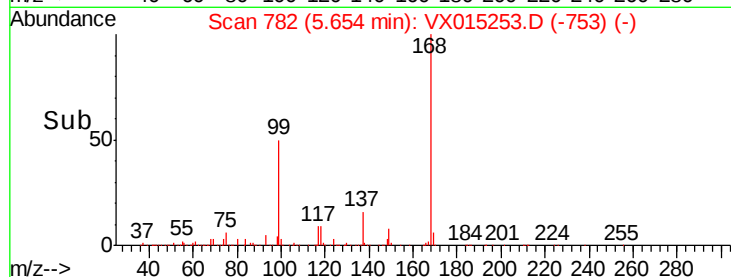
121 0.0 24.6 37.0#



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: 0.328 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX015253.D

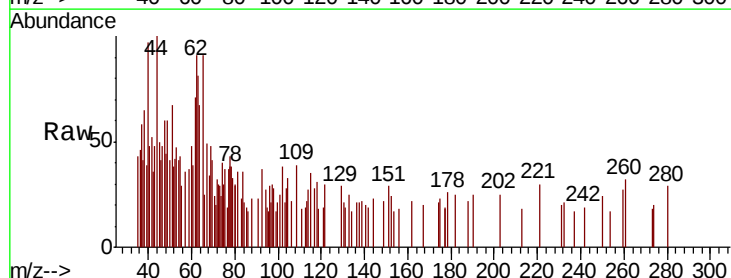
Acq: 13 Mar 2020 12:42

Tgt Ion: 62 Resp: 1247

Ion Ratio Lower Upper

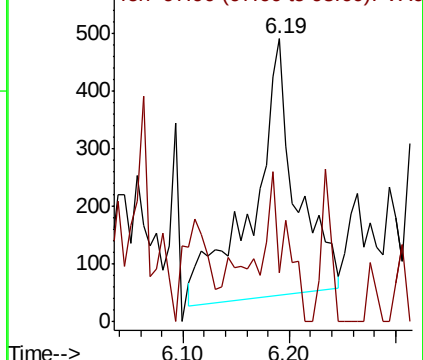
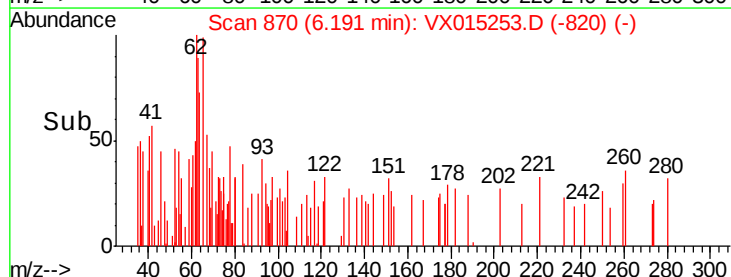
62 100

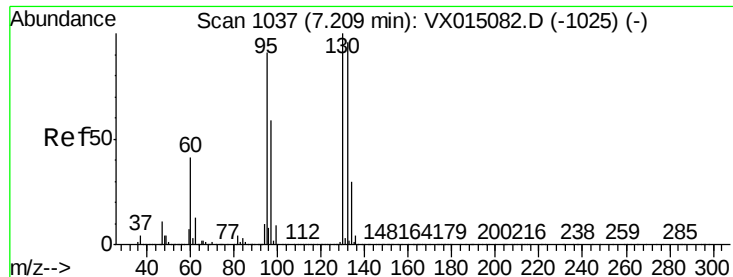
98 25.3 0.0 20.6#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.350 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

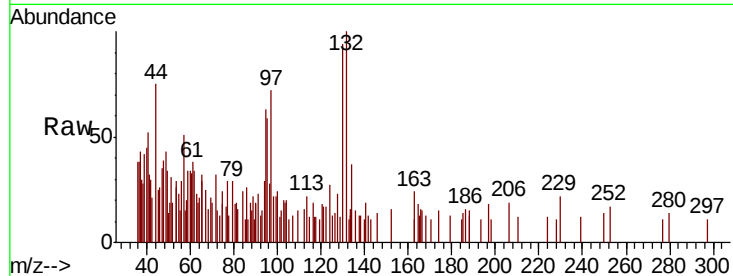
RE135D2-20200311

Tot Ion:130 Resp: 1079

Ion Ratio Lower Upper

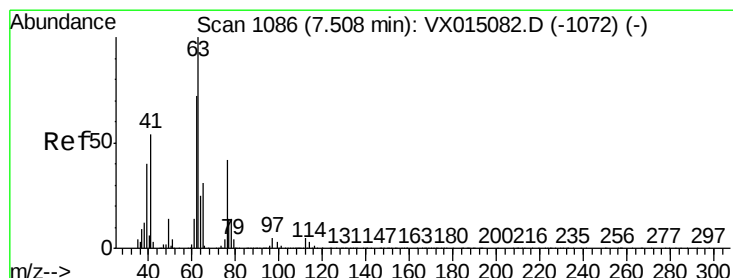
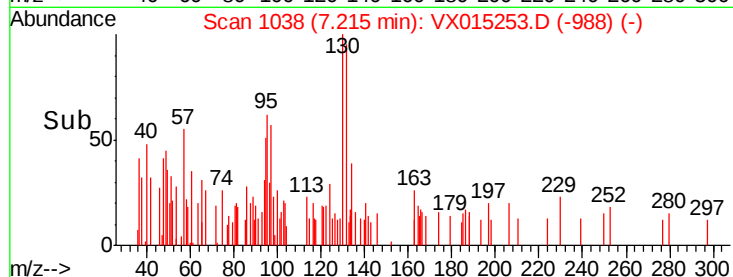
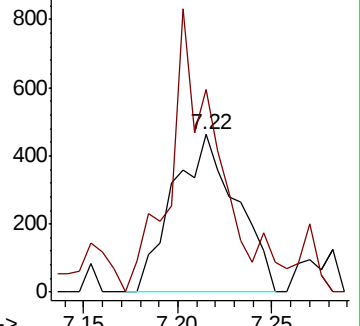
130 100

95 110.4 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 2.347 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX015253.D

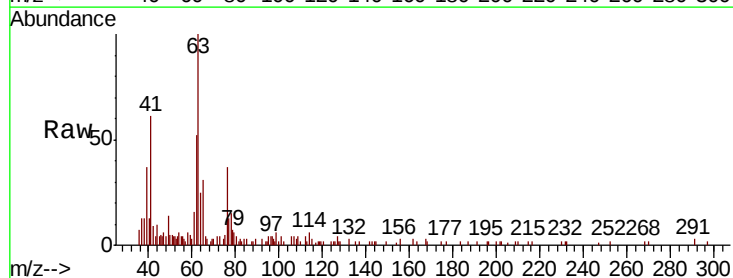
Acq: 13 Mar 2020 12:42

Tgt Ion: 63 Resp: 6720

Ion Ratio Lower Upper

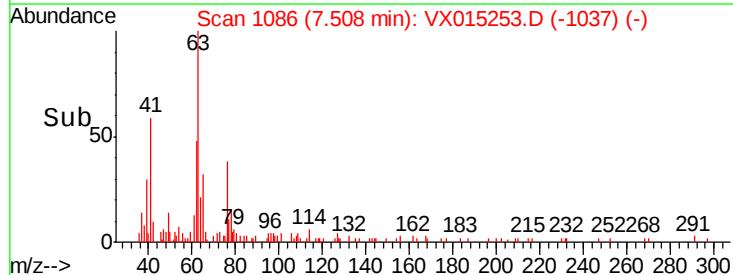
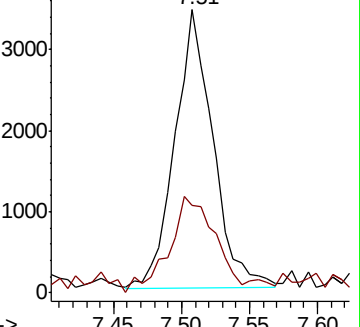
63 100

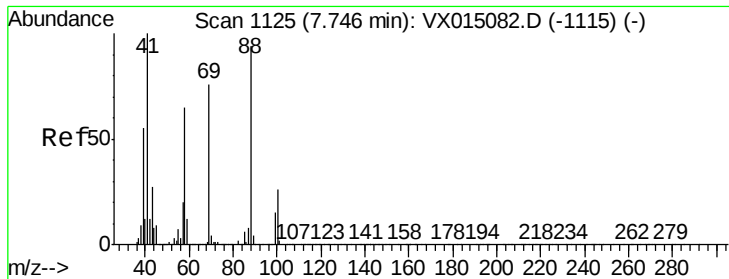
65 31.8 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

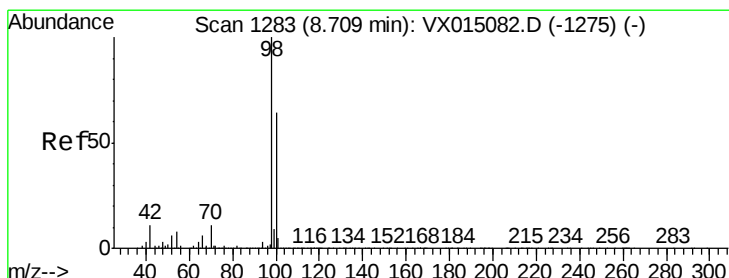
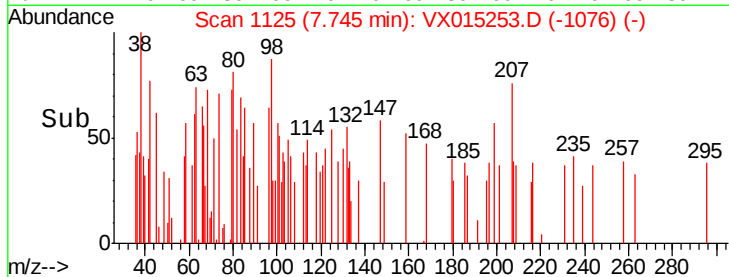
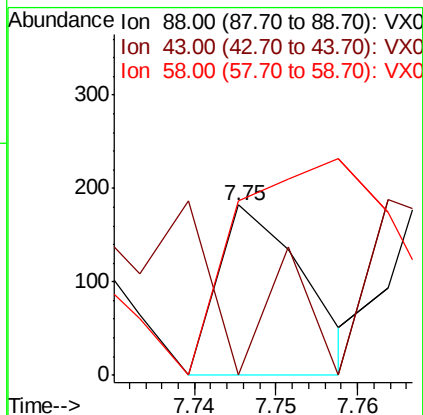
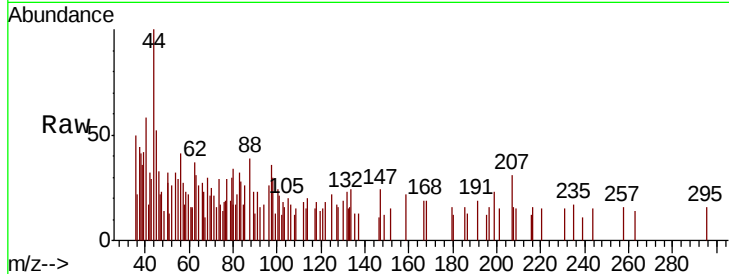




#49
1,4-Dioxane
Concen: 2.002 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

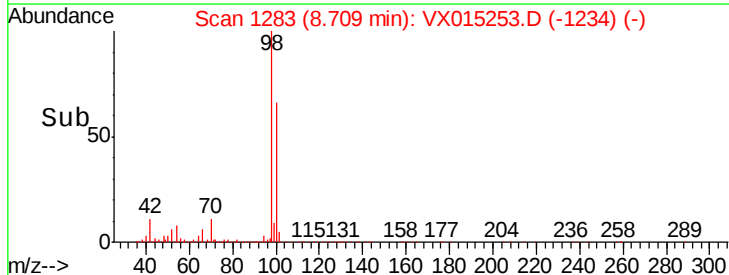
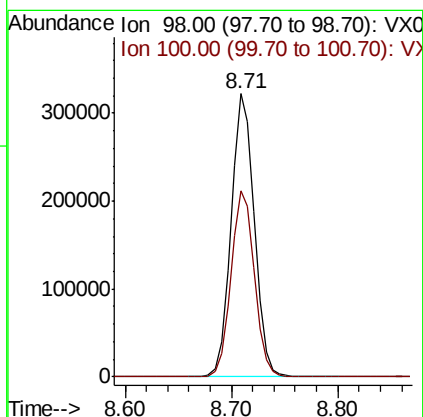
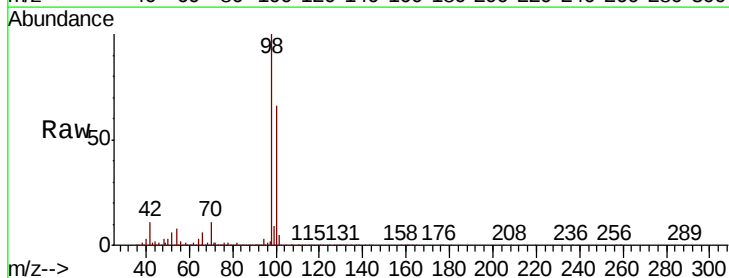
Instrument :
MSVOA_X
ClientSampleId :
RE135D2-20200311

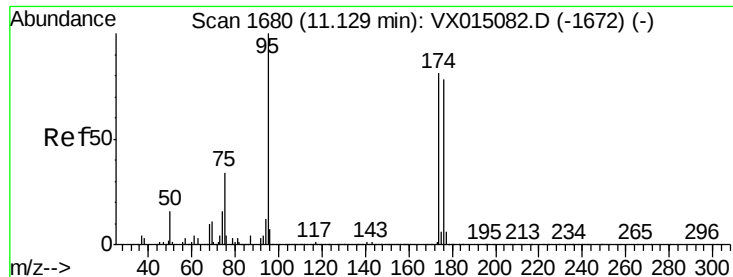
Tot Ion: 88 Resp: 134
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 0.0 55.6 83.4#



#50
Toluene-d8
Concen: 50.929 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015253.D
Acq: 13 Mar 2020 12:42

Tgt Ion: 98 Resp: 492821
Ion Ratio Lower Upper
98 100
100 66.3 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 52.532 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20200311

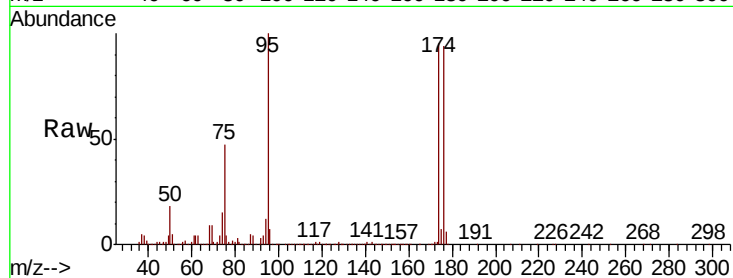
Tot Ion: 95 Resp: 181317

Ion Ratio Lower Upper

95 100

174 91.2 0.0 177.6

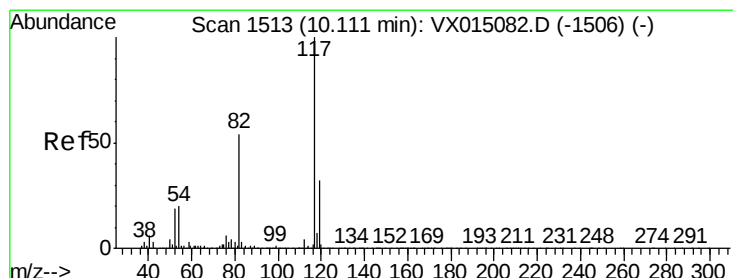
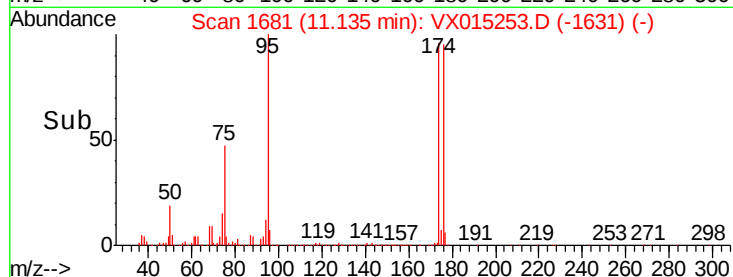
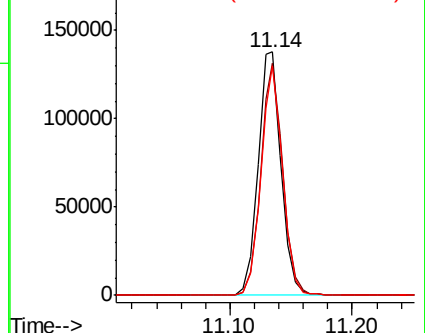
176 88.4 0.0 170.2



Abundance Ion 94.90 (94.60 to 95.60): VX015082.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX015082.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX015082.D (-1672) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

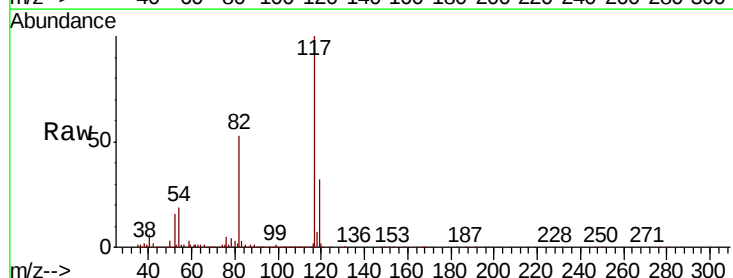
Tgt Ion: 117 Resp: 391873

Ion Ratio Lower Upper

117 100

82 53.4 43.3 64.9

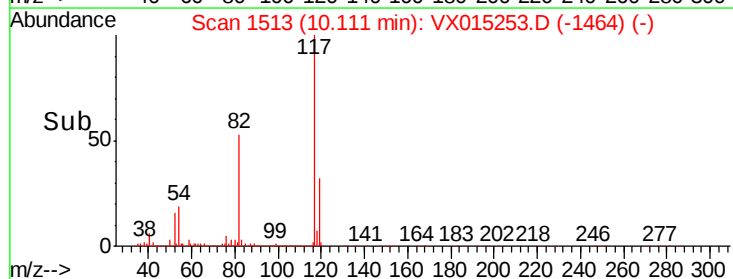
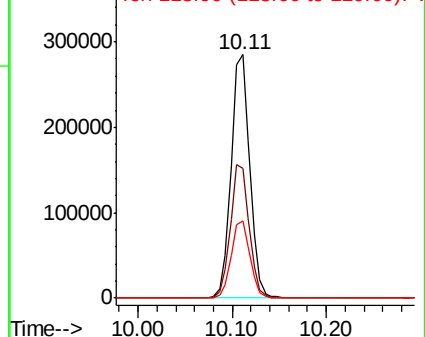
119 31.7 25.8 38.8

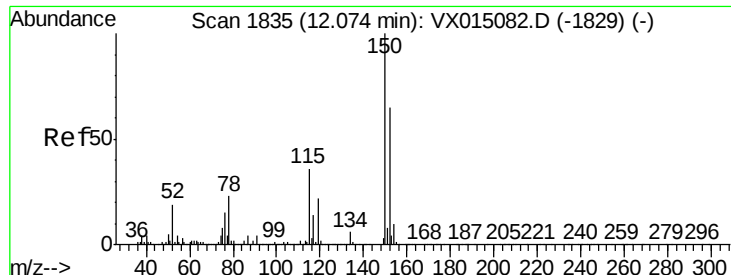


Abundance Ion 116.90 (116.60 to 117.60): VX015082.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX015082.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX015082.D (-1506) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20200311

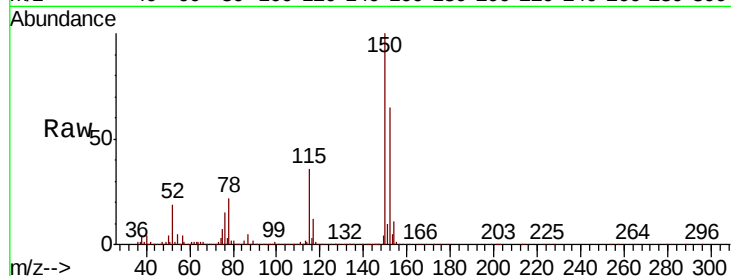
Tot Ion:152 Resp: 197941

Ion Ratio Lower Upper

152 100

115 55.9 38.2 114.6

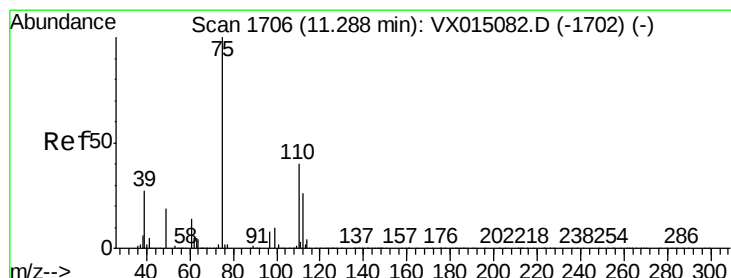
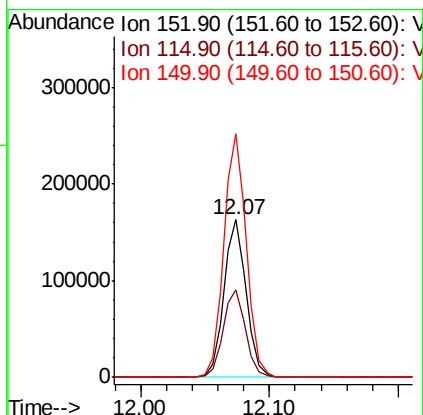
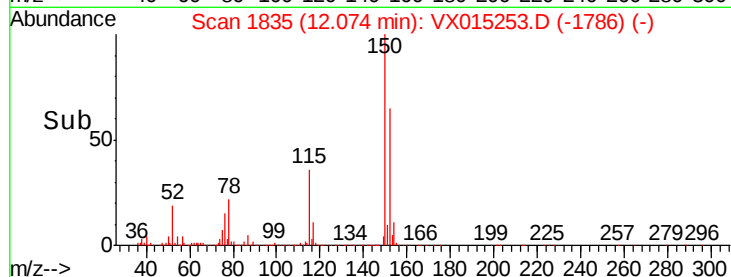
150 156.1 0.0 343.8



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: 22.049 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX015253.D

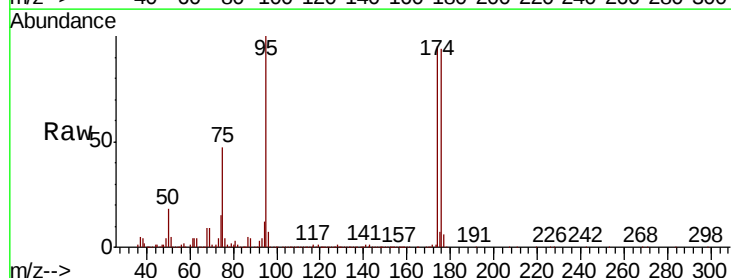
Acq: 13 Mar 2020 12:42

Tgt Ion: 75 Resp: 87058

Ion Ratio Lower Upper

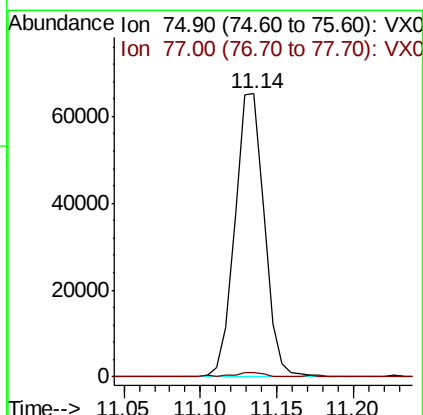
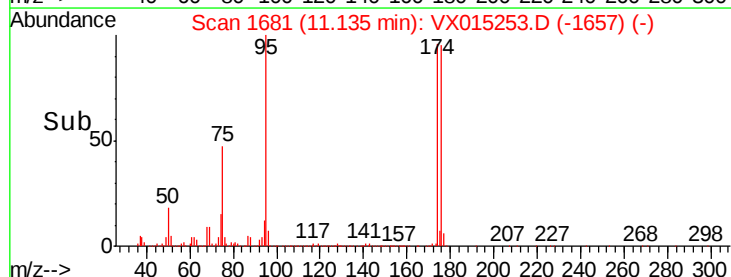
75 100

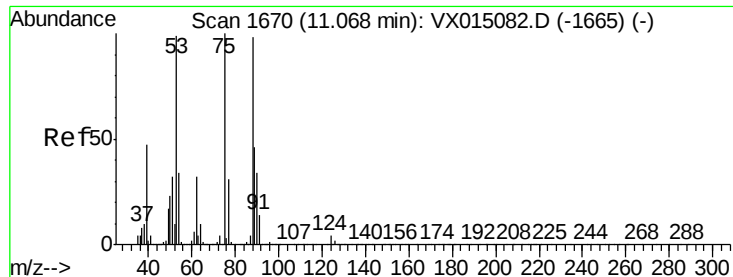
77 2.0 22.6 67.8#



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: 62.576 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

Instrument :

MSVOA_X

ClientSampleId :

RE135D2-20200311

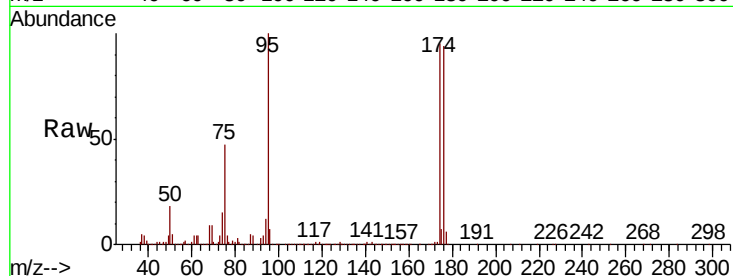
Tot Ion: 75 Resp: 87058

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

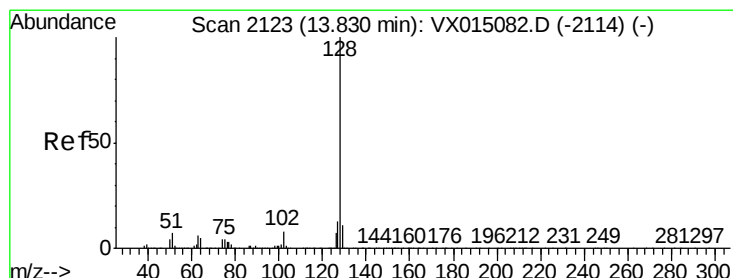
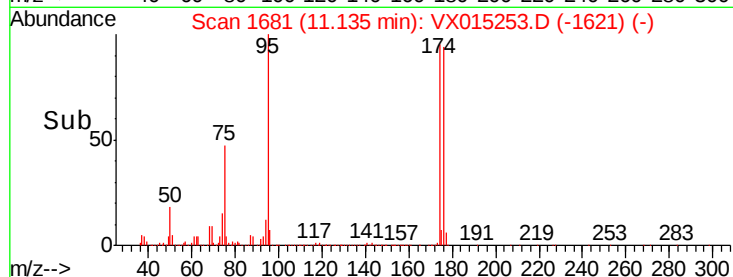
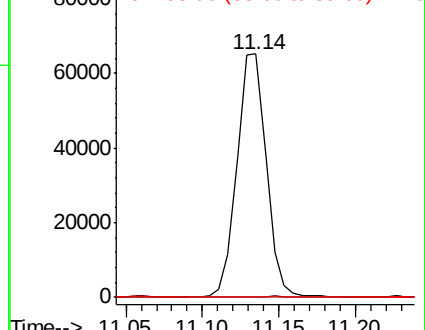
89 0.1 36.2 54.2#



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



#95

Naphthalene

Concen: 1.467 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015253.D

Acq: 13 Mar 2020 12:42

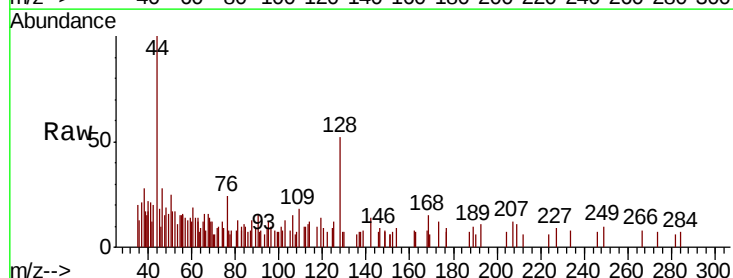
Tgt Ion: 128 Resp: 642

Ion Ratio Lower Upper

128 100

127 26.5 10.3 15.5#

129 18.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

