

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015300.D
 Acq On : 16 Mar 2020 17:28
 Operator : JC/SP
 Sample : L1903-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310

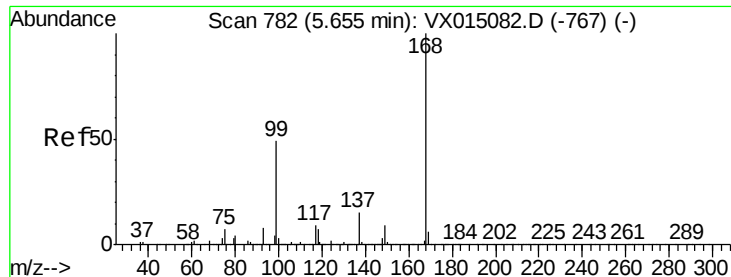
Quant Time: Mar 17 07:43:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	313213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	514518	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	509509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	256243	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	182329	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
35) Dibromofluoromethane	5.49	113	157650	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	8.71	98	628264	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.13	95	234684	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1161	0.423	ug/l #	53
3) Chloromethane	1.32	50	829	0.213	ug/l #	85
7) Trichlorofluoromethane	1.94	101	992	0.212	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	17296	5.865	ug/l	94
11) Tert butyl alcohol	3.01	59	534	0.828	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	10558	3.469	ug/l	99
13) Acrolein	2.29	56	179	0.295	ug/l #	67
16) Acetone	2.43	43	2573	1.710	ug/l #	82
20) Methylene Chloride	2.86	84	927	0.263	ug/l #	14
24) 1,1-Dichloroethane	3.70	63	5109	0.871	ug/l #	92
27) cis-1,2-Dichloroethene	4.59	96	7271	1.994	ug/l	87
30) Chloroform	5.21	83	3941	0.689	ug/l	89
36) 1,1-Dichloropropene	5.65	75	21985	4.622	ug/l #	50
38) Carbon Tetrachloride	5.65	117	27701	6.170	ug/l #	17
39) Methylcyclohexane	7.21	83	26867	4.837	ug/l #	1
44) Trichloroethene	7.21	130	2545856	647.788	ug/l	97
49) 1,4-Dioxane	7.73	88	1453	17.011	ug/l #	33
55) 1,1,2-Trichloroethane	9.21	97	1946	0.548	ug/l #	83
60) Dibromochloromethane	9.33	129	14447	3.872	ug/l #	12
64) Tetrachloroethene	9.33	164	18004	4.274	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	111938	21.900	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	111938	62.153	ug/l #	11
95) Naphthalene	13.84	128	634	1.456	ug/l #	56

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015300.D

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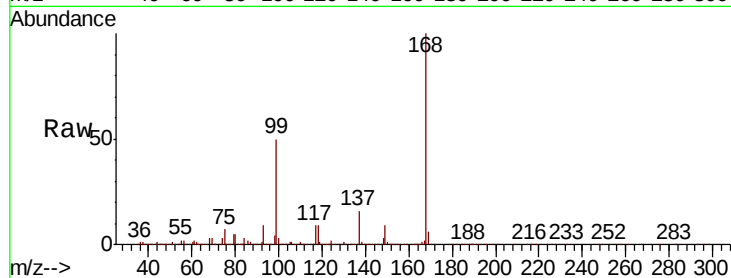
RE103D1-20200310

Tot Ion:168 Resp: 313213

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

120000

100000

80000

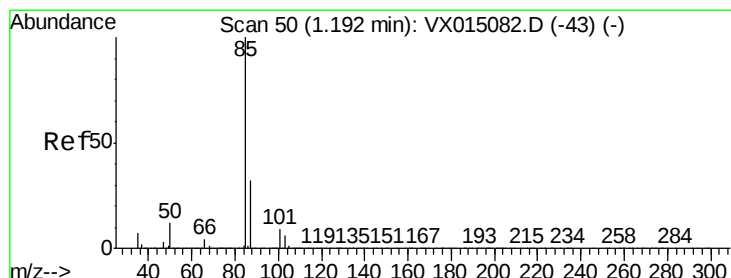
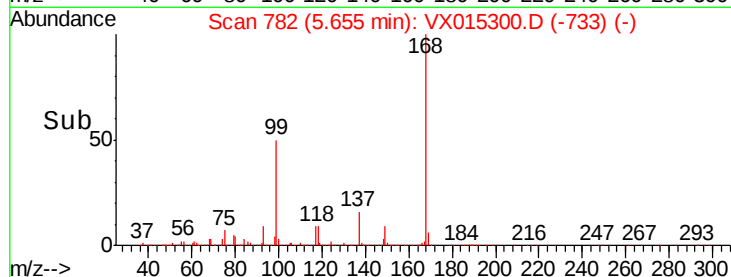
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.423 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015300.D

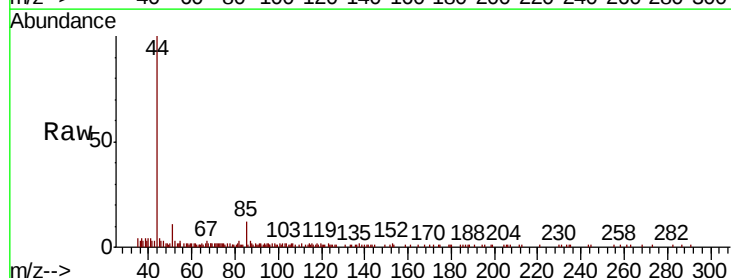
Acq: 16 Mar 2020 17:28

Tgt Ion: 85 Resp: 1161

Ion Ratio Lower Upper

85 100

87 6.3 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1000

800

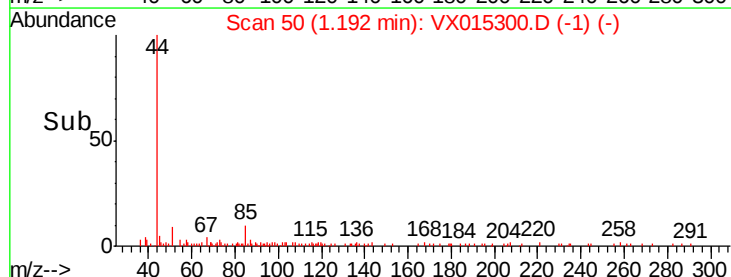
600

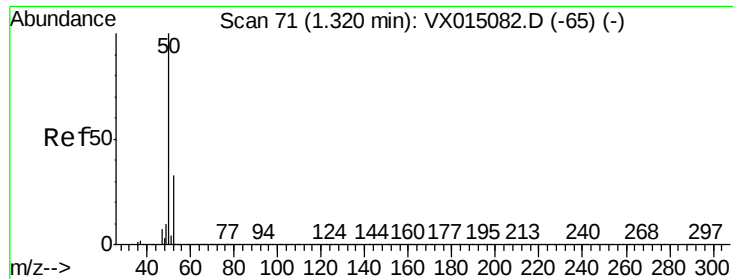
400

200

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.213 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

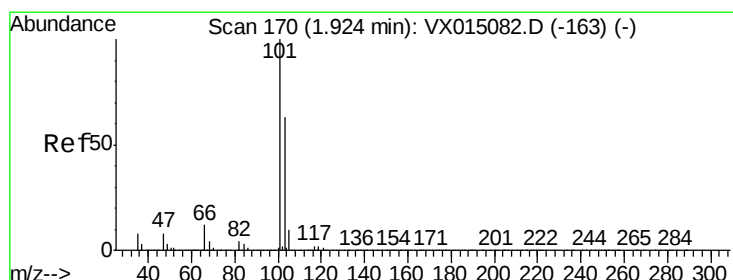
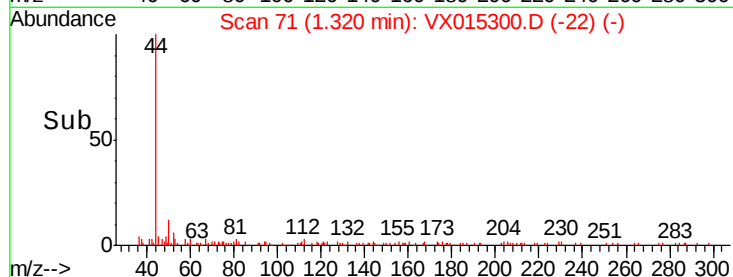
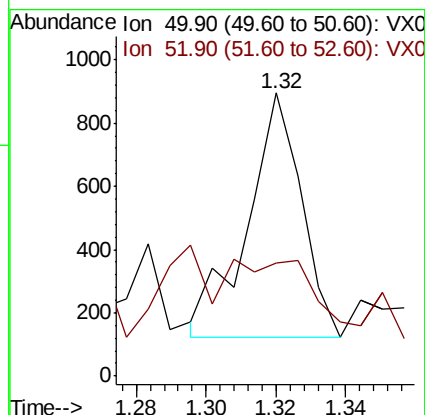
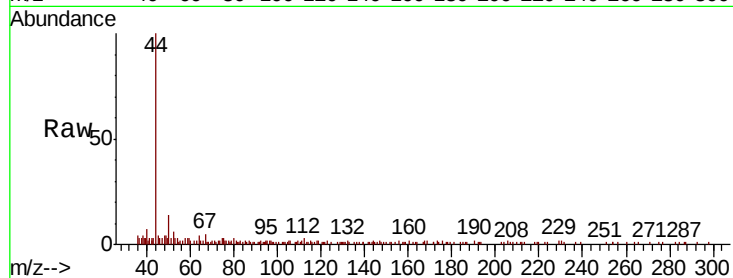
RE103D1-20200310

Tot Ion: 50 Resp: 829

Ion Ratio Lower Upper

50 100

52 24.2 26.2 39.2#



#7

Trichlorofluoromethane

Concen: 0.212 ug/l

RT: 1.94 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX015300.D

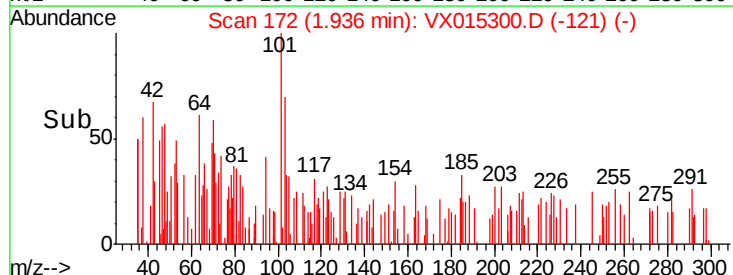
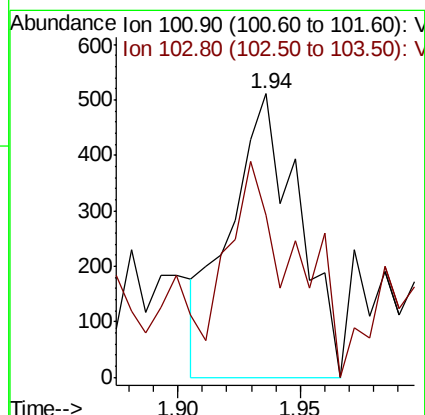
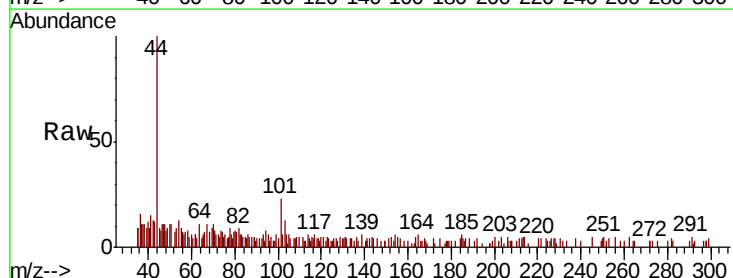
Acq: 16 Mar 2020 17:28

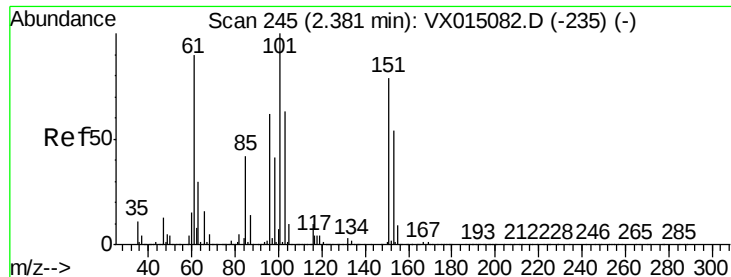
Tgt Ion:101 Resp: 992

Ion Ratio Lower Upper

101 100

103 57.3 50.4 75.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.865 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

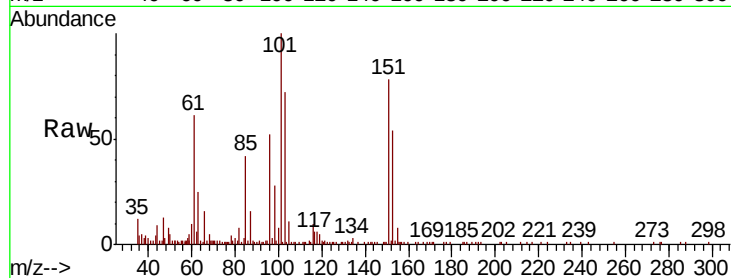
Tot Ion:101 Resp: 17296

Ion Ratio Lower Upper

101 100

85 37.9 33.7 50.5

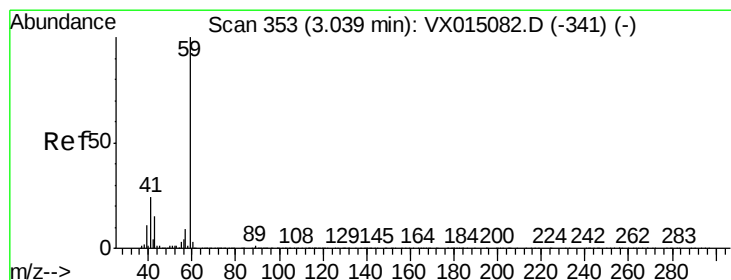
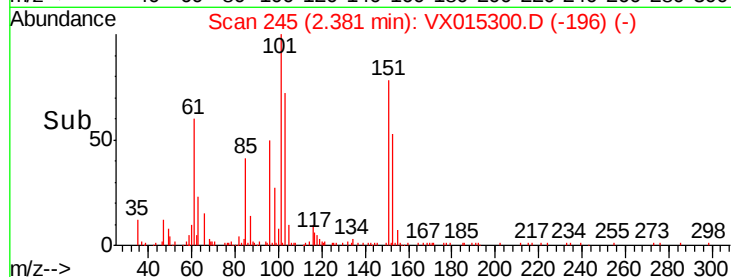
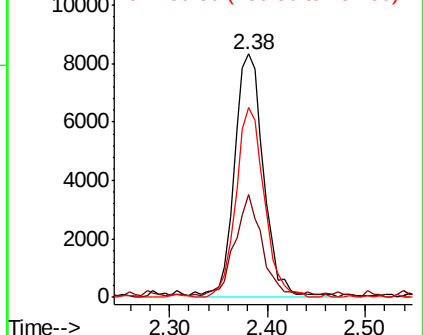
151 75.4 64.0 96.0



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



#11

Tert butyl alcohol

Concen: 0.828 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX015300.D

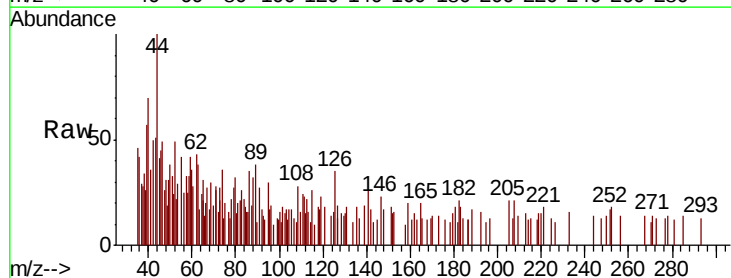
Acq: 16 Mar 2020 17:28

Tgt Ion: 59 Resp: 534

Ion Ratio Lower Upper

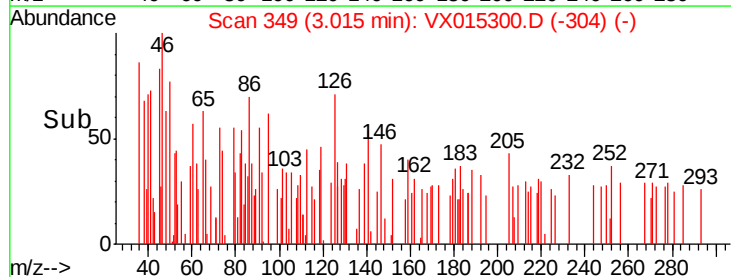
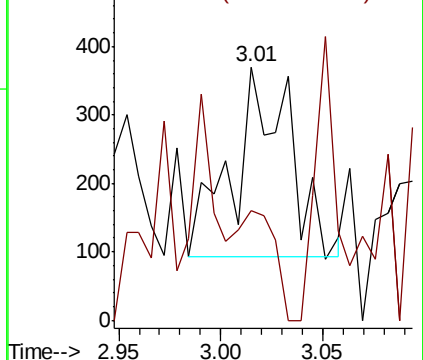
59 100

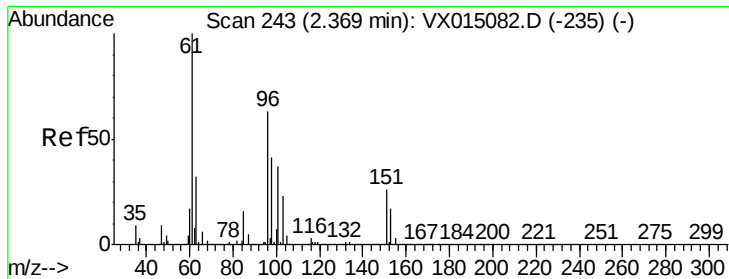
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 3.469 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

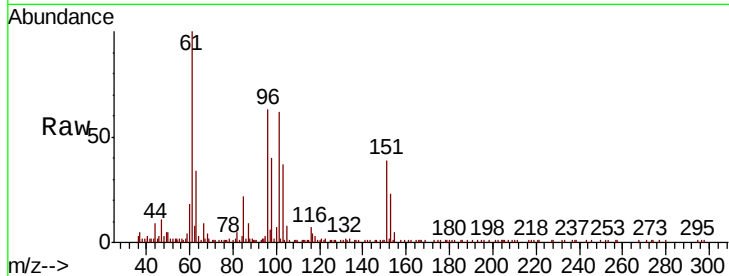
Tot Ion: 96 Resp: 10558

Ion Ratio Lower Upper

96 100

61 158.7 126.2 189.4

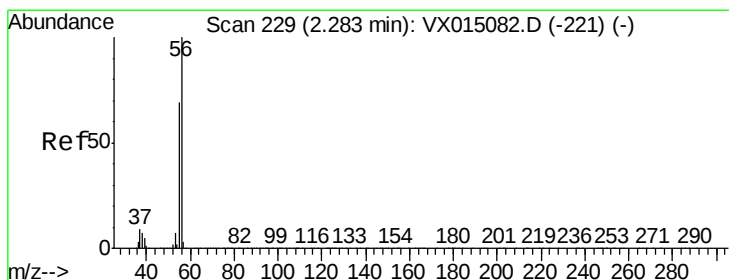
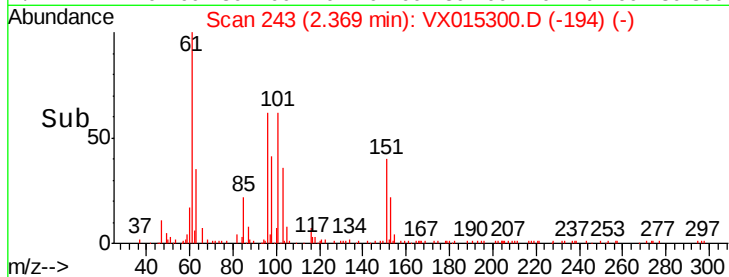
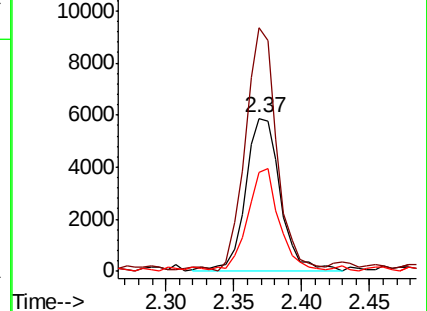
98 63.0 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.295 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015300.D

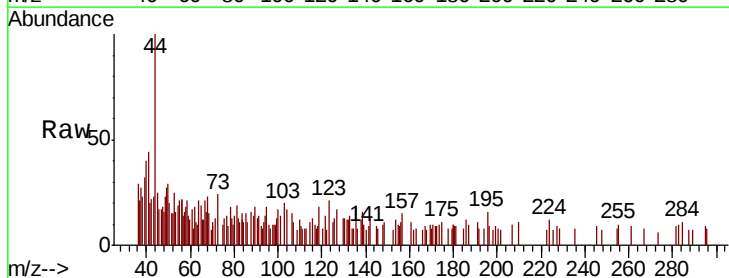
Acq: 16 Mar 2020 17:28

Tgt Ion: 56 Resp: 179

Ion Ratio Lower Upper

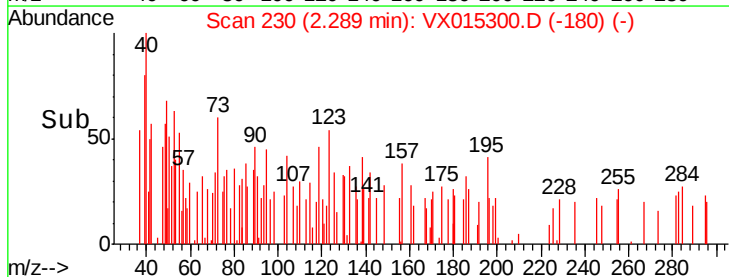
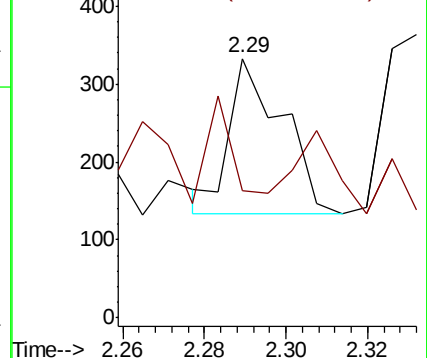
56 100

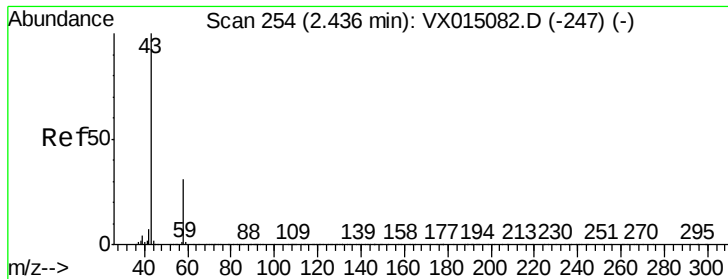
55 42.5 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.710 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

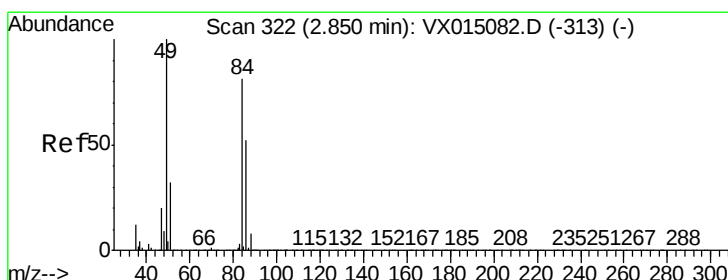
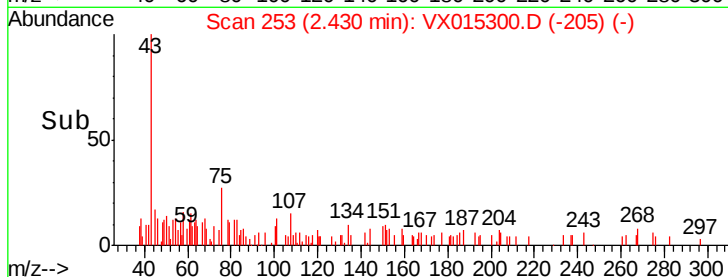
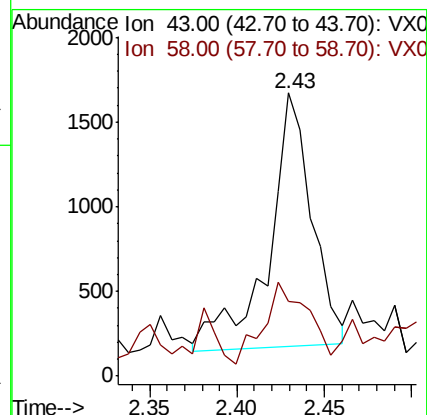
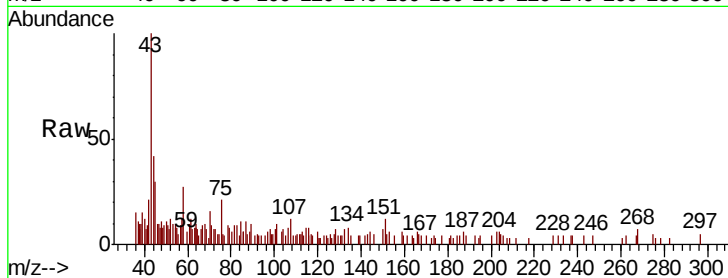
RE103D1-20200310

Tot Ion: 43 Resp: 2573

Ion Ratio Lower Upper

43 100

58 20.9 24.8 37.2#



#20

Methylene Chloride

Concen: 0.263 ug/l

RT: 2.86 min Scan# 324

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Tgt Ion: 84 Resp: 927

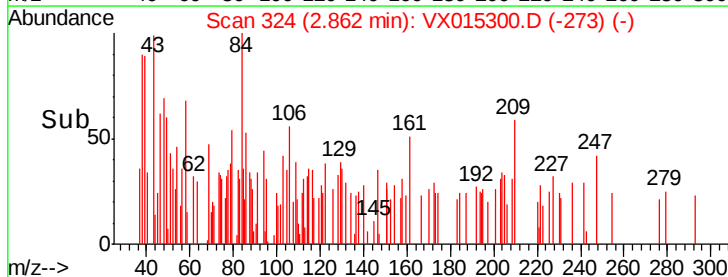
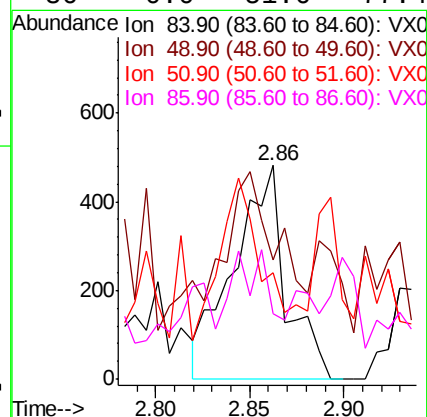
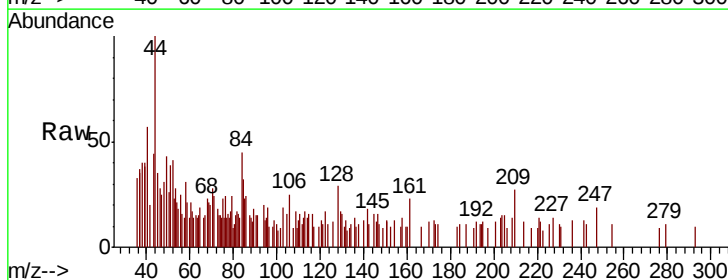
Ion Ratio Lower Upper

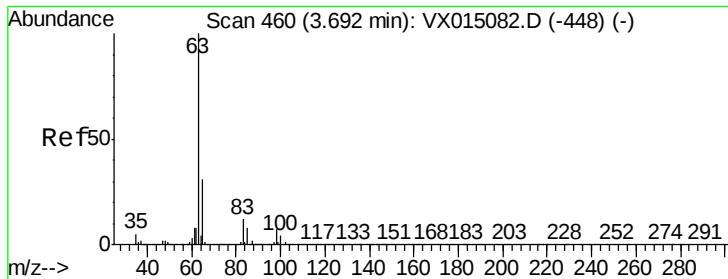
84 100

49 13.5 99.4 149.2#

51 6.6 31.5 47.3#

86 0.0 51.6 77.4#





#24

1,1-Dichloroethane

Concen: 0.871 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

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ClientSampleId :

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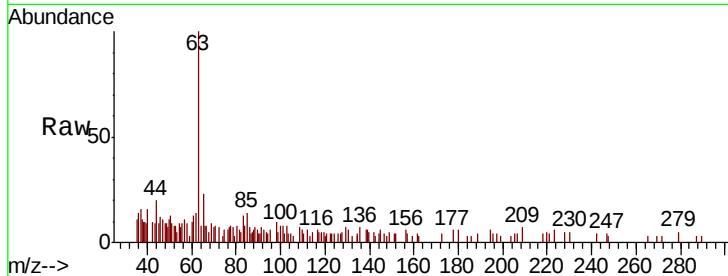
Tot Ion: 63 Resp: 5109

Ion Ratio Lower Upper

63 100

98 3.4 3.7 11.1#

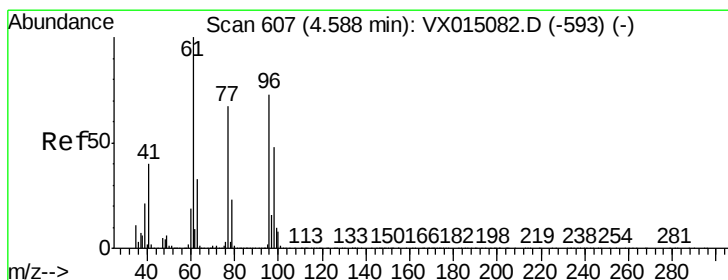
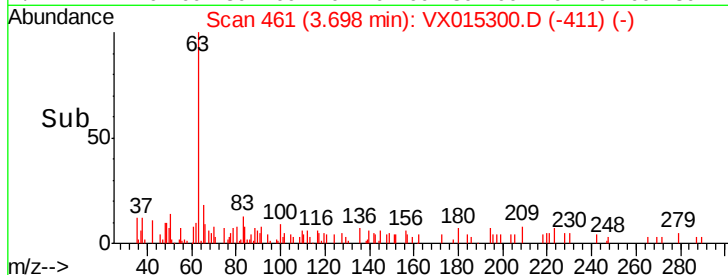
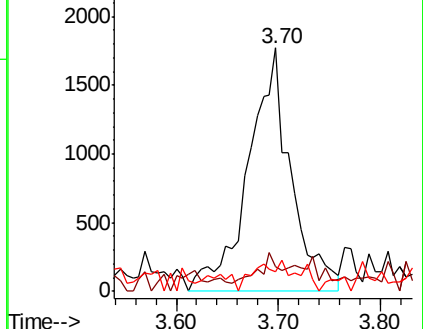
100 3.9 2.1 6.5



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



#27

cis-1,2-Dichloroethene

Concen: 1.994 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

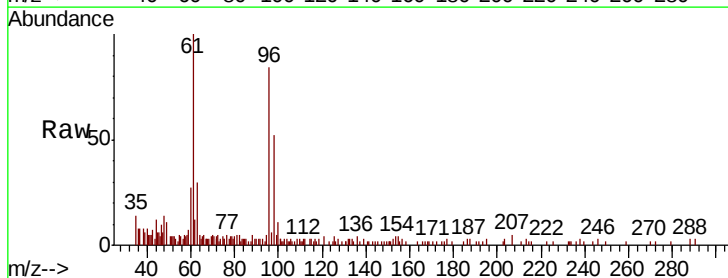
Tgt Ion: 96 Resp: 7271

Ion Ratio Lower Upper

96 100

61 121.1 0.0 286.8

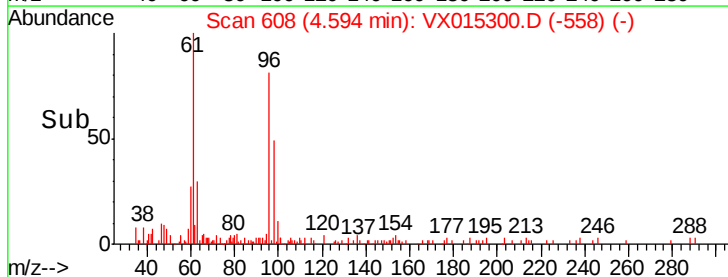
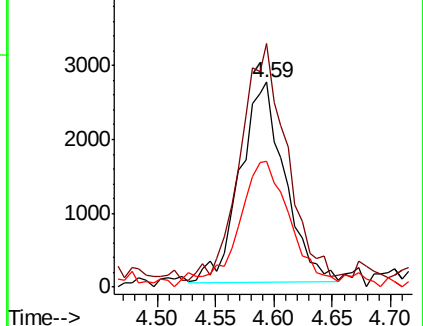
98 64.0 0.0 128.4

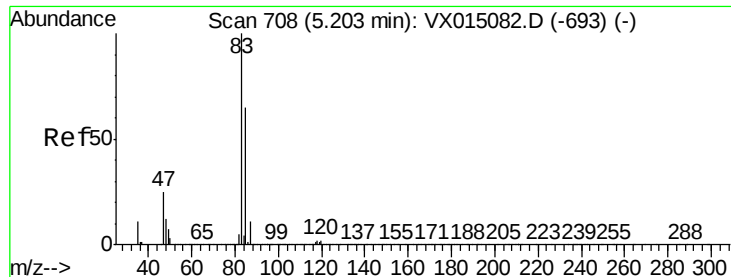


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#30

Chloroform

Concen: 0.689 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

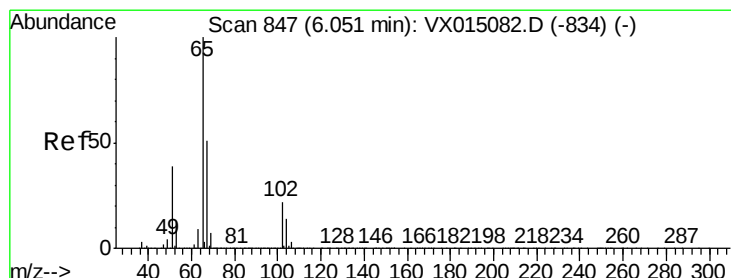
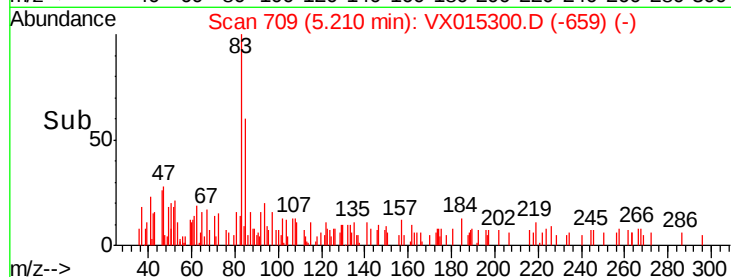
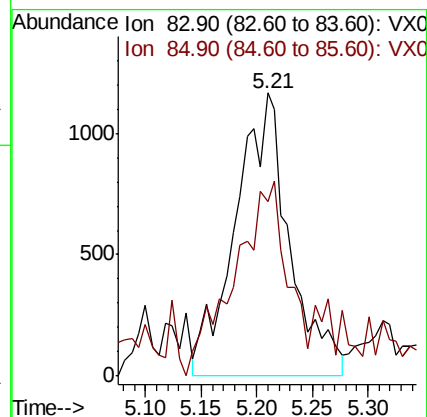
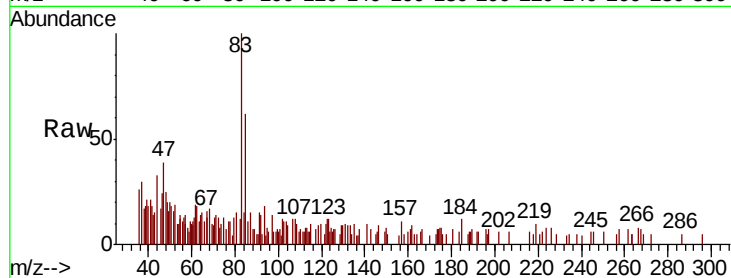
RE103D1-20200310

Tot Ion: 83 Resp: 3941

Ion Ratio Lower Upper

83 100

85 56.5 52.0 78.0



#33

1,2-Dichloroethane-d4

Concen: 49.068 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015300.D

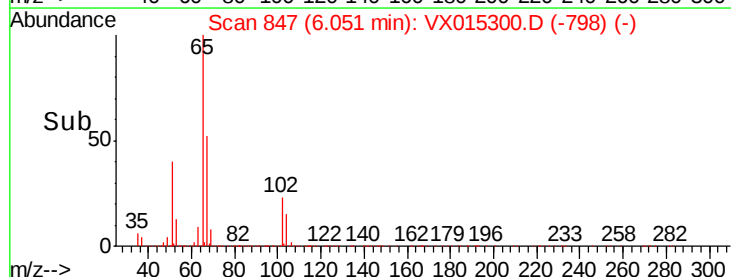
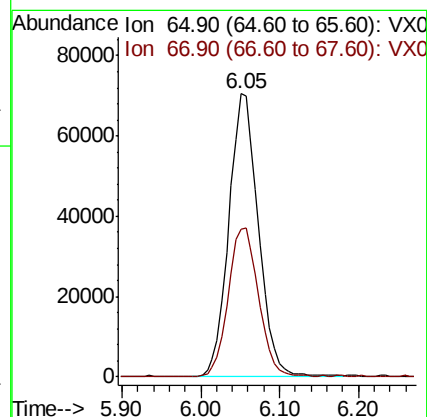
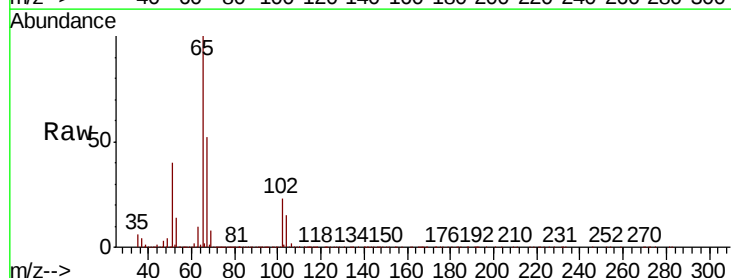
Acq: 16 Mar 2020 17:28

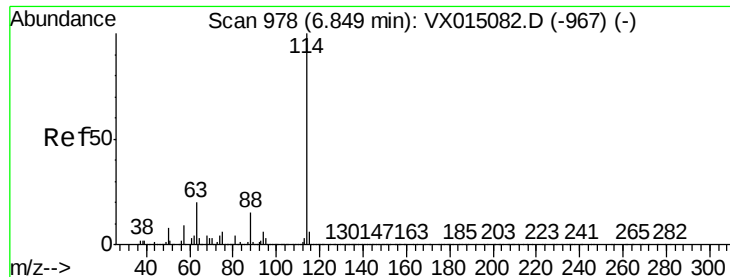
Tgt Ion: 65 Resp: 182329

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

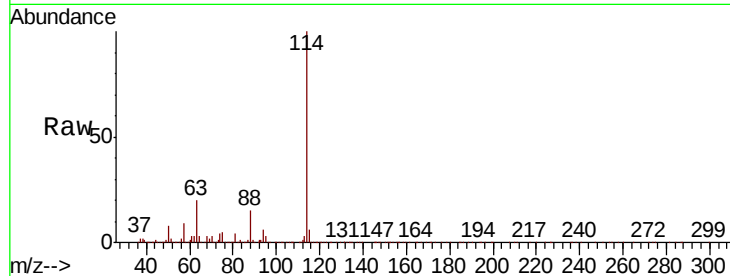
Tot Ion:114 Resp: 514518

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

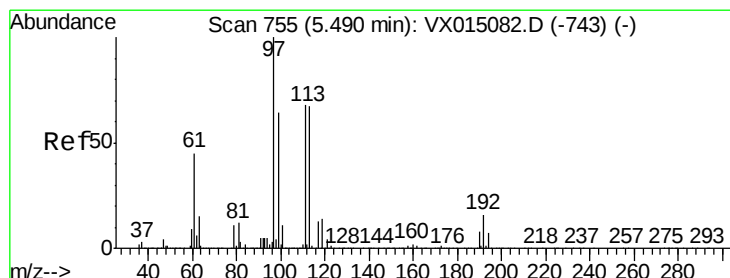
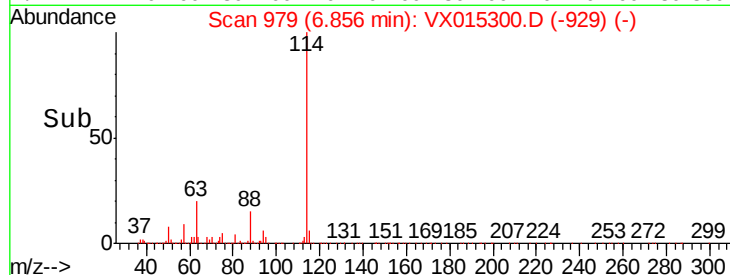
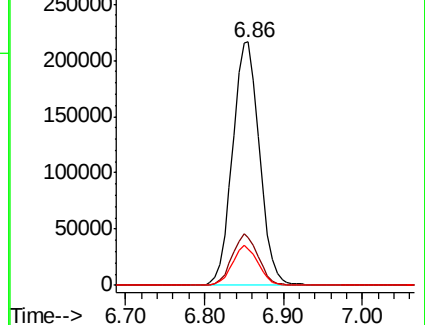
88 14.7 0.0 30.6



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: 48.568 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

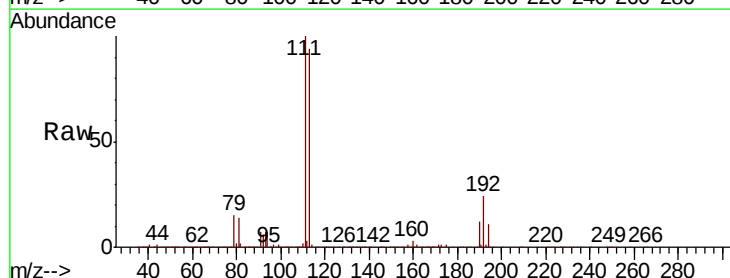
Tgt Ion:113 Resp: 157650

Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

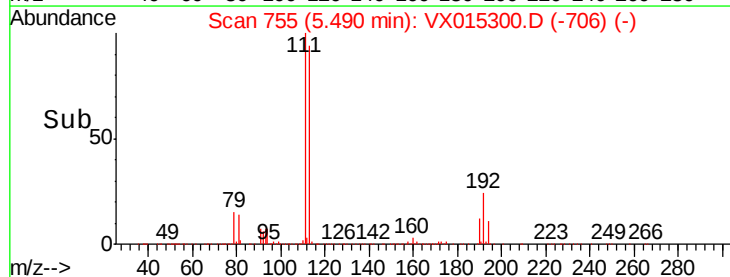
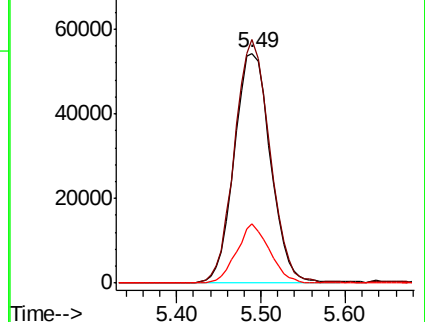
192 23.7 18.6 28.0

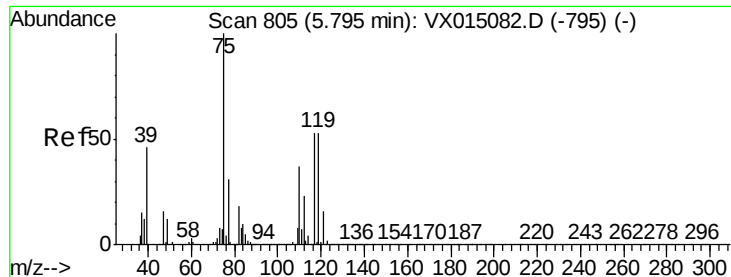


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

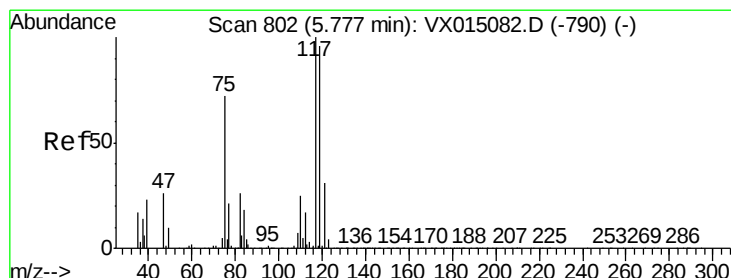
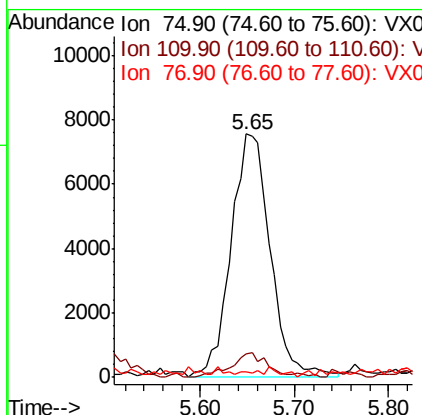
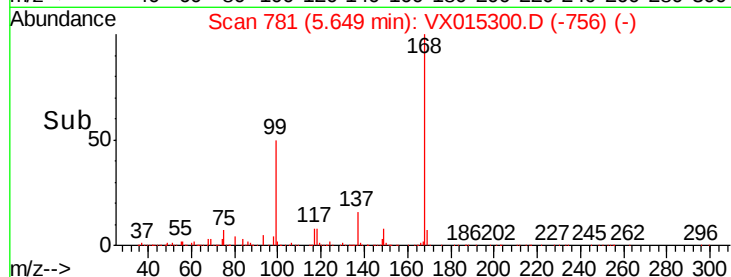
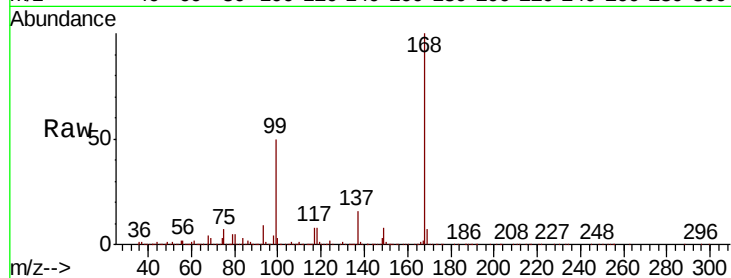




#36
 1,1-Dichloropropene
 Concen: 4.622 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015300.D
 Acq: 16 Mar 2020 17:28

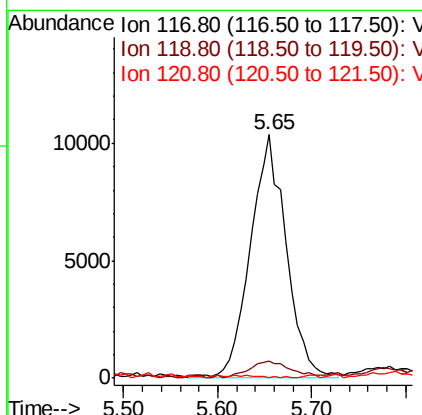
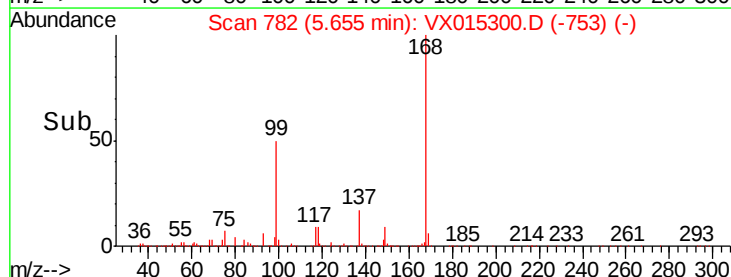
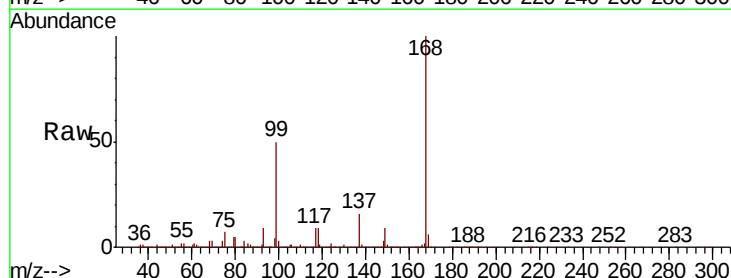
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310

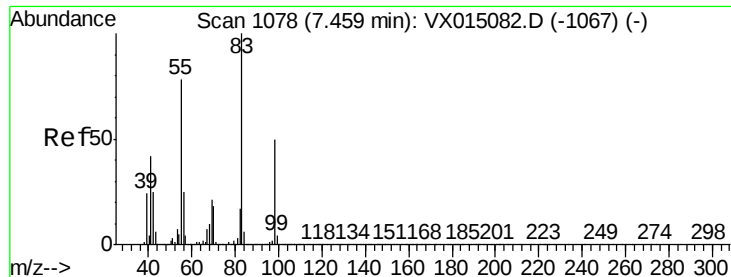
Tot Ion	75	110	77	Resp	Lower	Upper
21985	100	9.3	0.0		17.9	53.8#
					24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.170 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015300.D
 Acq: 16 Mar 2020 17:28

Tgt Ion	117	119	121	Resp	Lower	Upper
27701	100	6.2	0.0		76.9	115.3#
					24.6	37.0#





#39

Methylcyclohexane

Concen: 4.837 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.25 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

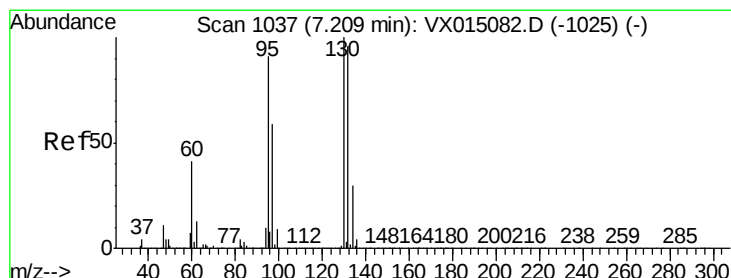
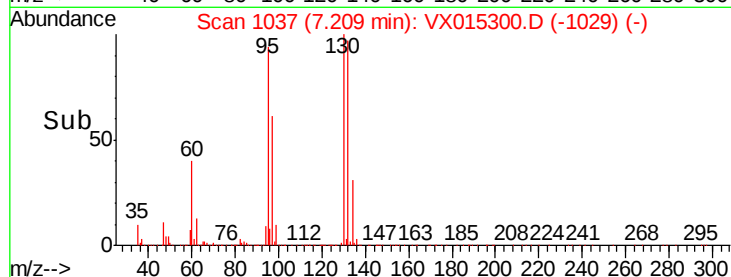
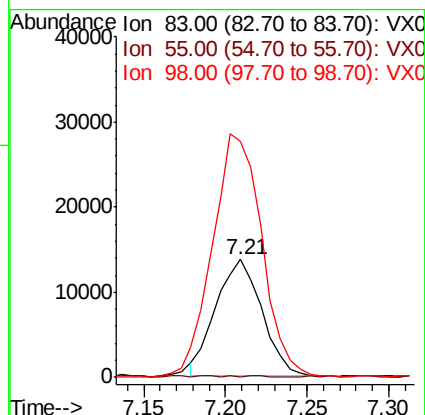
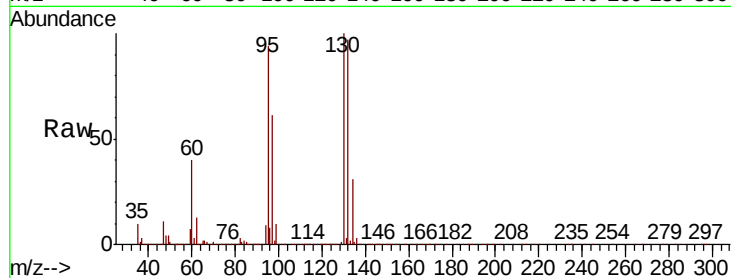
Tot Ion: 83 Resp: 26867

Ion Ratio Lower Upper

83 100

55 2.0 62.4 93.6#

98 201.8 39.7 59.5#



#44

Trichloroethene

Concen: 647.788 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015300.D

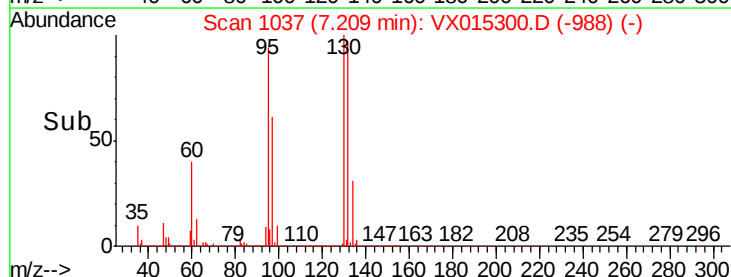
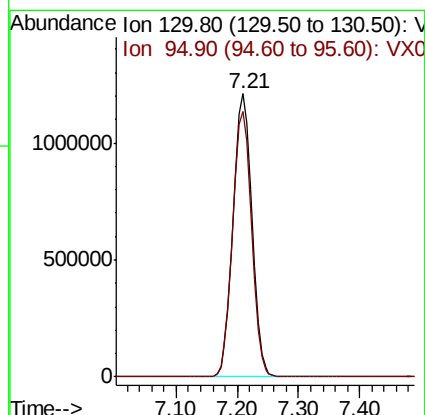
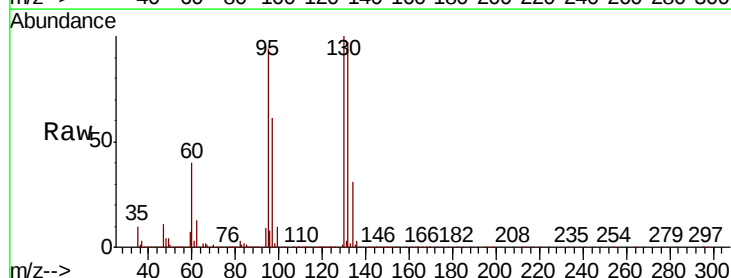
Acq: 16 Mar 2020 17:28

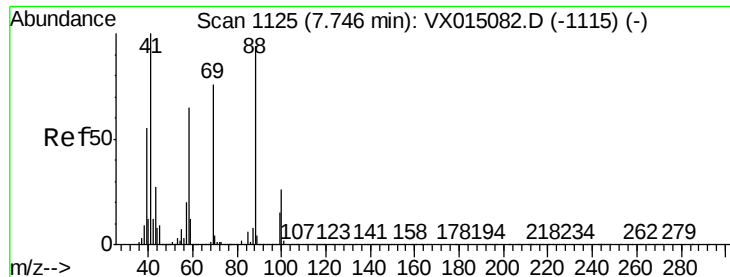
Tgt Ion:130 Resp: 2545856

Ion Ratio Lower Upper

130 100

95 93.8 0.0 181.2





#49

1,4-Dioxane

Concen: 17.011 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

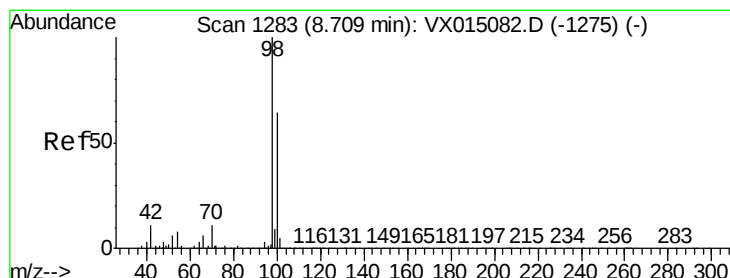
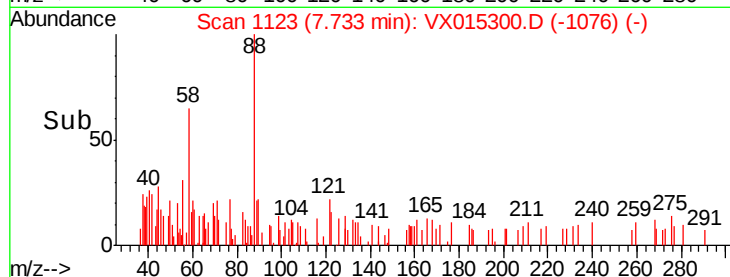
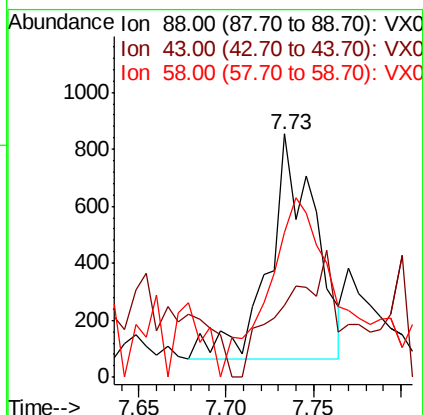
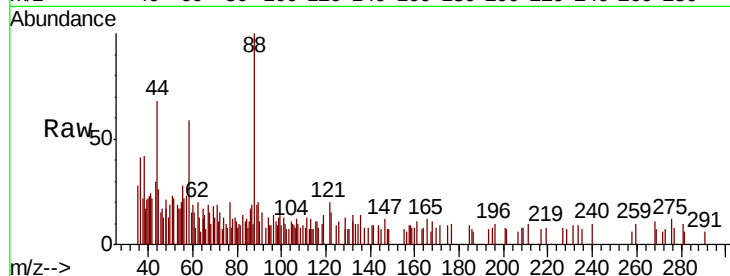
Tot Ion: 88 Resp: 1453

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 127.2 55.6 83.4#



#50

Toluene-d8

Concen: 50.884 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015300.D

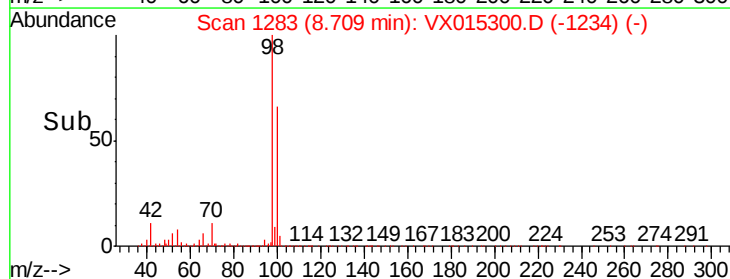
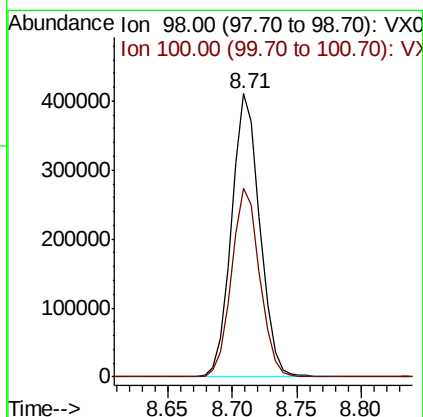
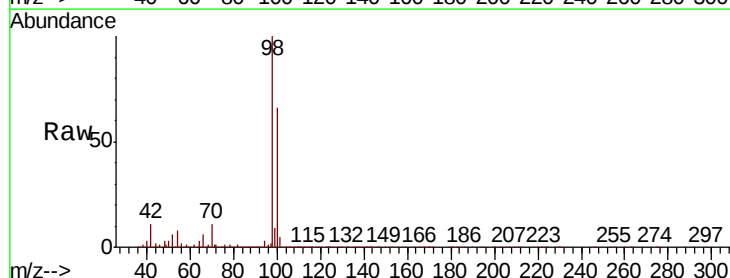
Acq: 16 Mar 2020 17:28

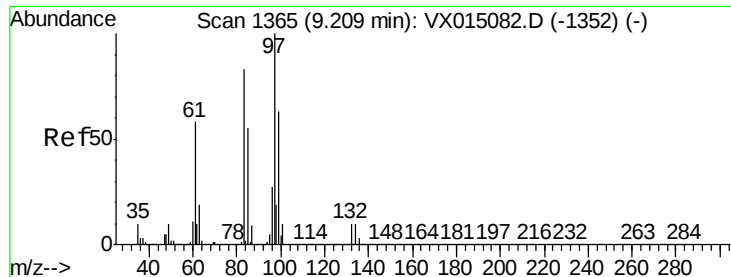
Tgt Ion: 98 Resp: 628264

Ion Ratio Lower Upper

98 100

100 66.5 52.4 78.6

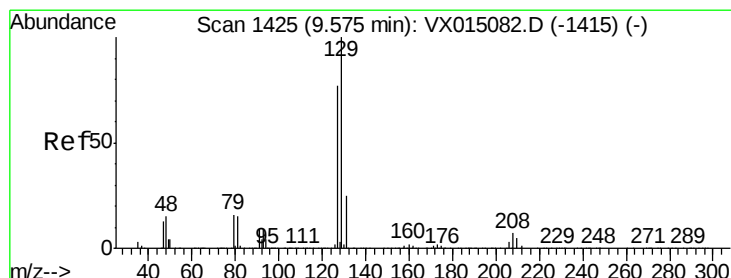
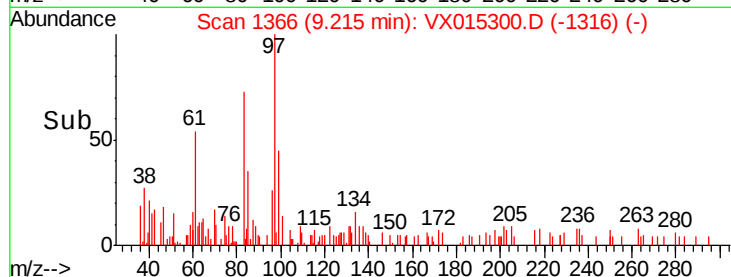
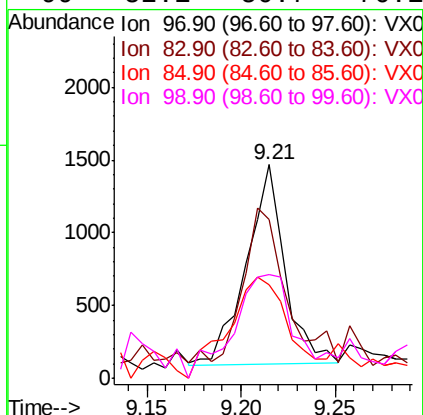
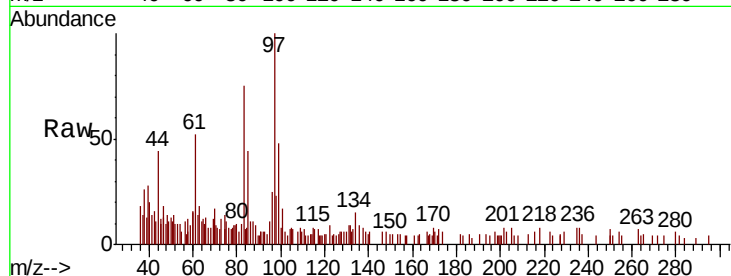




#55
 1,1,2-Trichloroethane
 Concen: 0.548 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX015300.D
 Acq: 16 Mar 2020 17:28

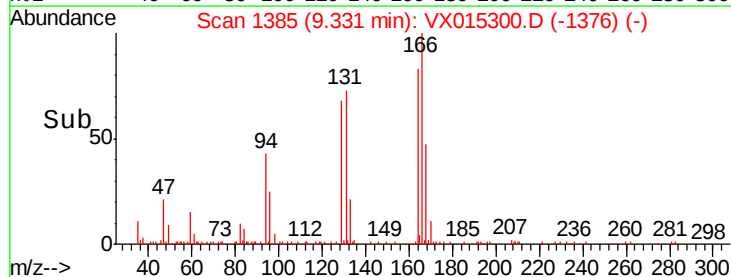
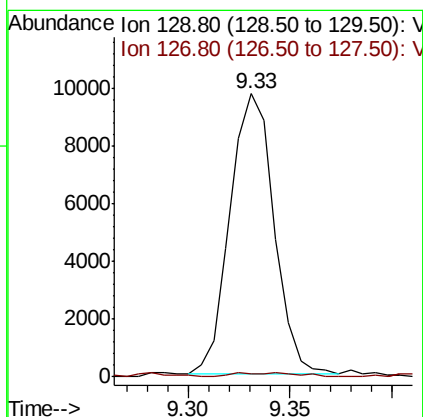
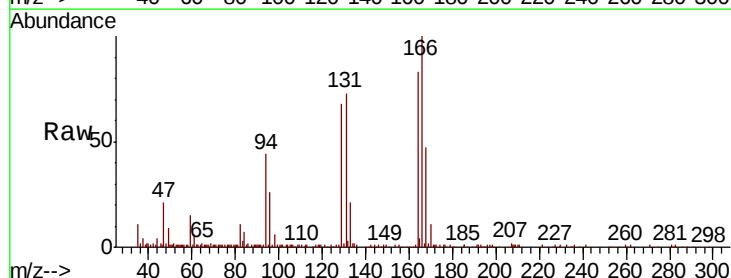
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310

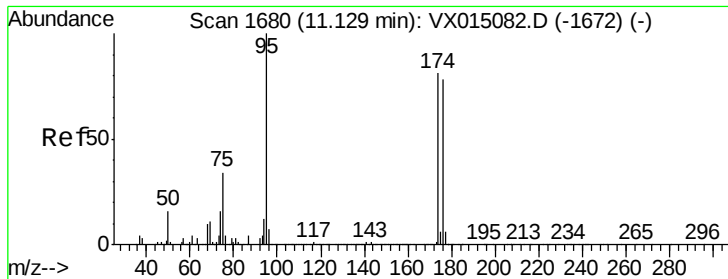
Tot Ion:	97	Resp:	1946
Ion	Ratio	Lower	Upper
97	100		
83	72.5	66.4	99.6
85	33.5	43.5	65.3#
99	52.1	50.7	76.1



#60
 Dibromochloromethane
 Concen: 3.872 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.24 min
 Lab File: VX015300.D
 Acq: 16 Mar 2020 17:28

Tgt Ion:	129	Resp:	14447
Ion	Ratio	Lower	Upper
129	100		
127	1.1	38.8	116.3#

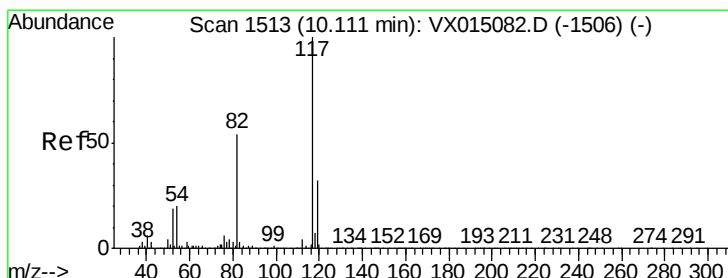
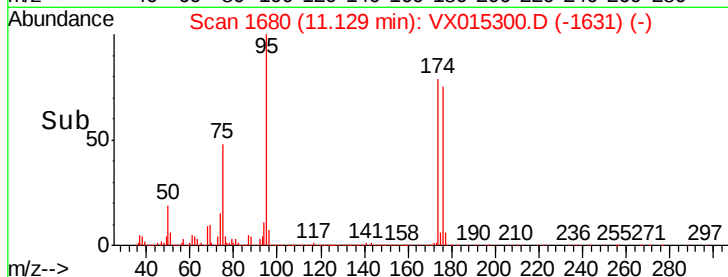
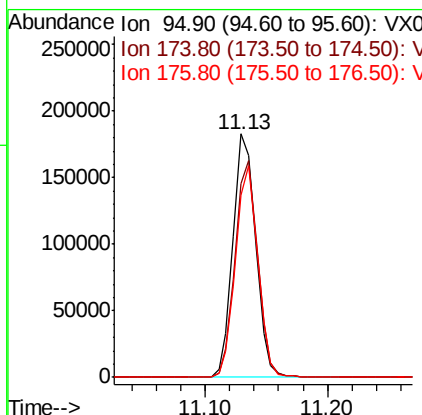
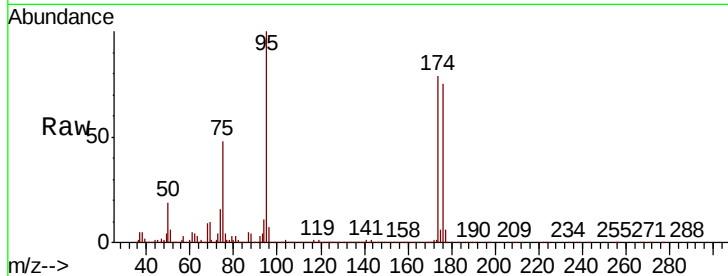




#62
4-Bromofluorobenzene
Concen: 53.288 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015300.D
Acq: 16 Mar 2020 17:28

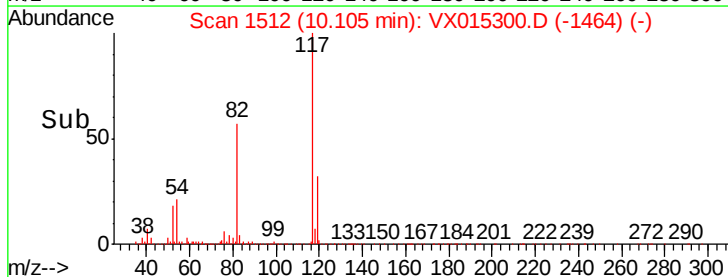
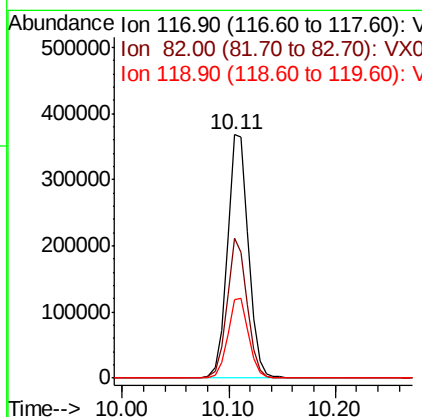
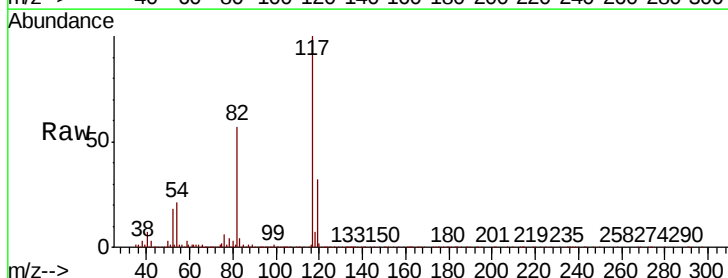
Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20200310

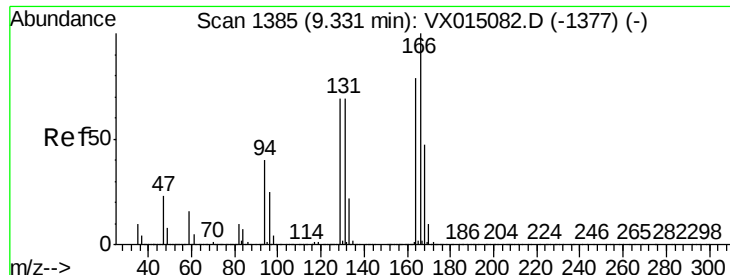
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.7	0.0	177.6
176	85.5	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015300.D
Acq: 16 Mar 2020 17:28

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.3	64.9
119	32.1	25.8	38.8





#64

Tetrachloroethene

Concen: 4.274 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

Tot Ion:164 Resp: 18004

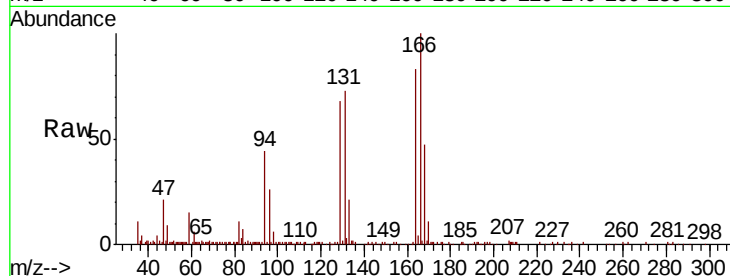
Ion Ratio Lower Upper

164 100

166 119.7 101.1 151.7

129 80.7 69.4 104.0

131 87.0 69.8 104.8

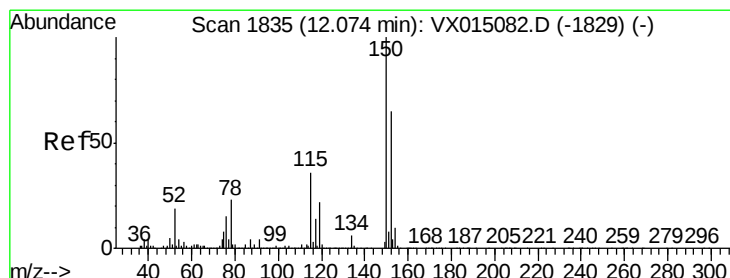
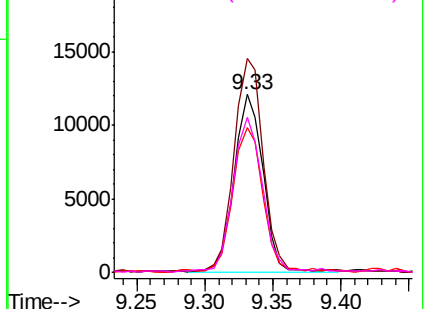
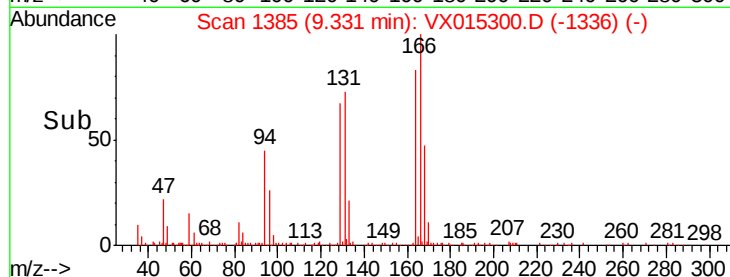


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

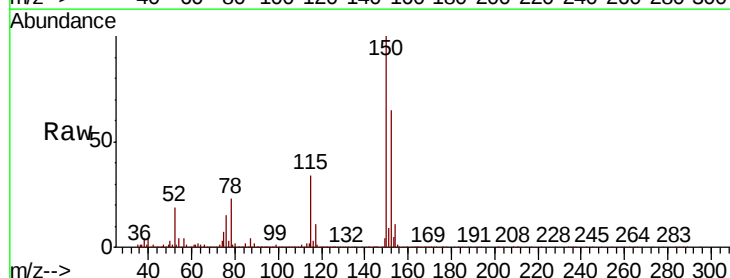
Tgt Ion:152 Resp: 256243

Ion Ratio Lower Upper

152 100

115 55.3 38.2 114.6

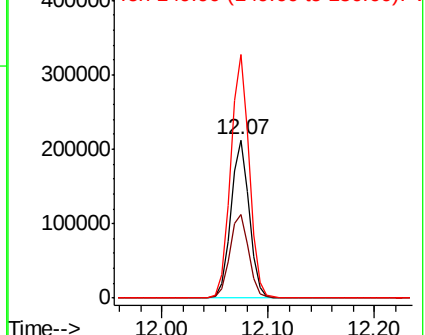
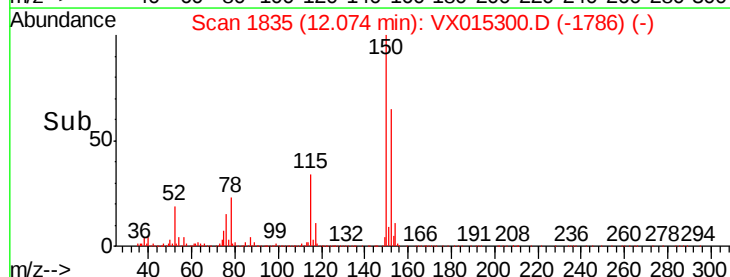
150 155.8 0.0 343.8

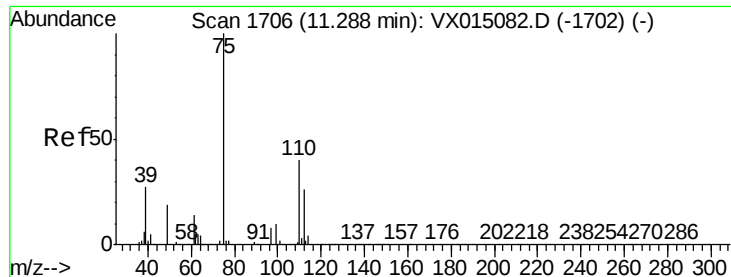


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.900 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

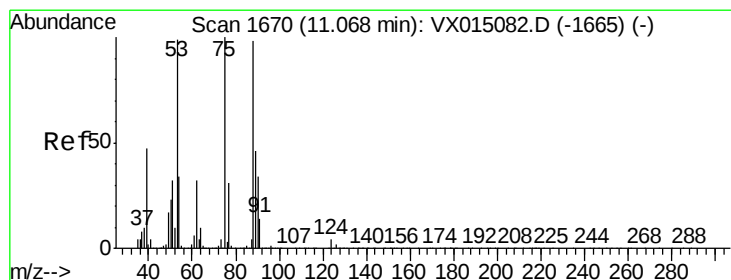
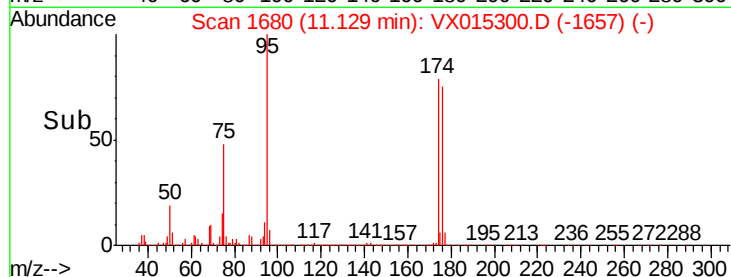
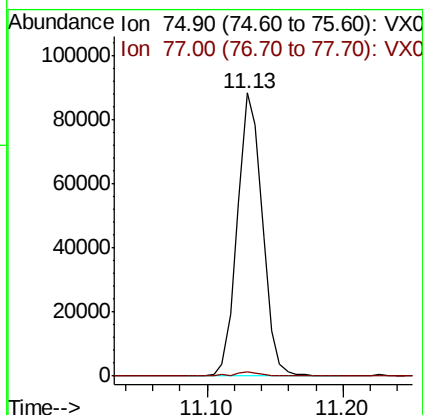
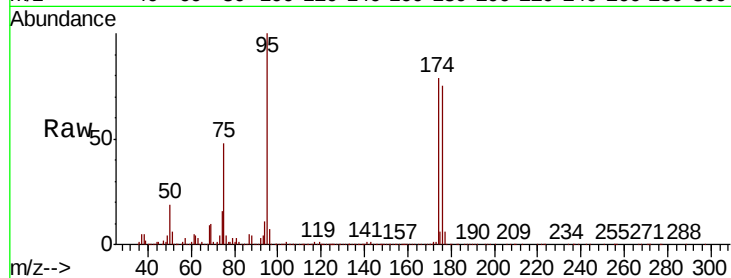
RE103D1-20200310

Tot Ion: 75 Resp: 111938

Ion Ratio Lower Upper

75 100

77 1.7 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.153 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

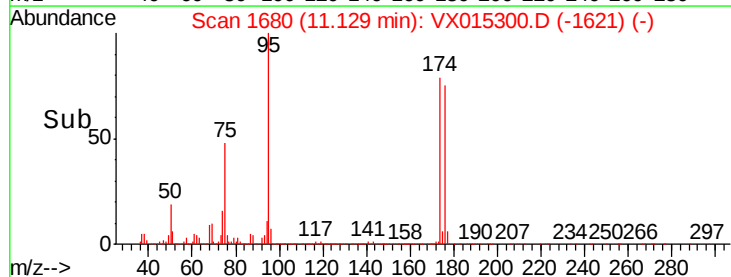
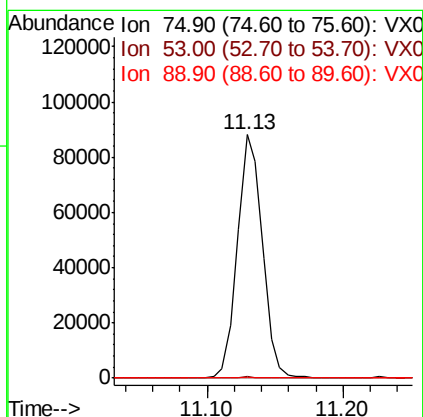
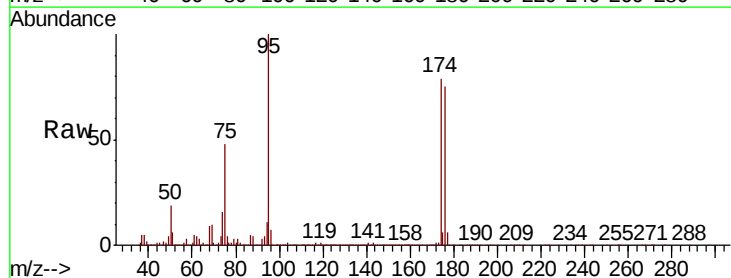
Tgt Ion: 75 Resp: 111938

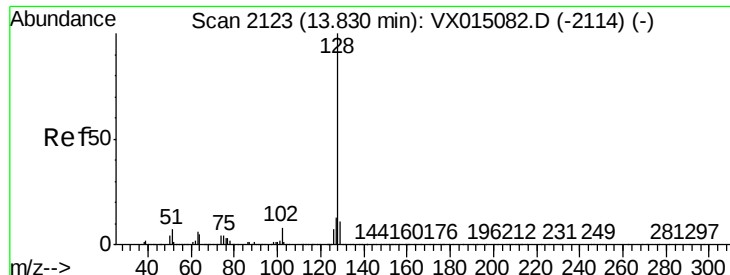
Ion Ratio Lower Upper

75 100

53 0.4 77.9 116.9#

89 0.3 36.2 54.2#





#95

Naphthalene

Concen: 1.456 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015300.D

Acq: 16 Mar 2020 17:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

Tot Ion:128 Resp: 634

Ion Ratio Lower Upper

128 100

127 35.5 10.3 15.5#

129 21.9 8.6 13.0#

