

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015263.D
 Acq On : 13 Mar 2020 16:28
 Operator : JC/SP
 Sample : L1903-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20200310

Quant Time: Mar 16 08:22:19 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	255582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	406209	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	400592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	205622	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	146580	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	5.49	113	126284	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	8.71	98	496830	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	11.13	95	185454	53.34	ug/l	0.00
Spiked Amount			Recovery	=	106.68%	

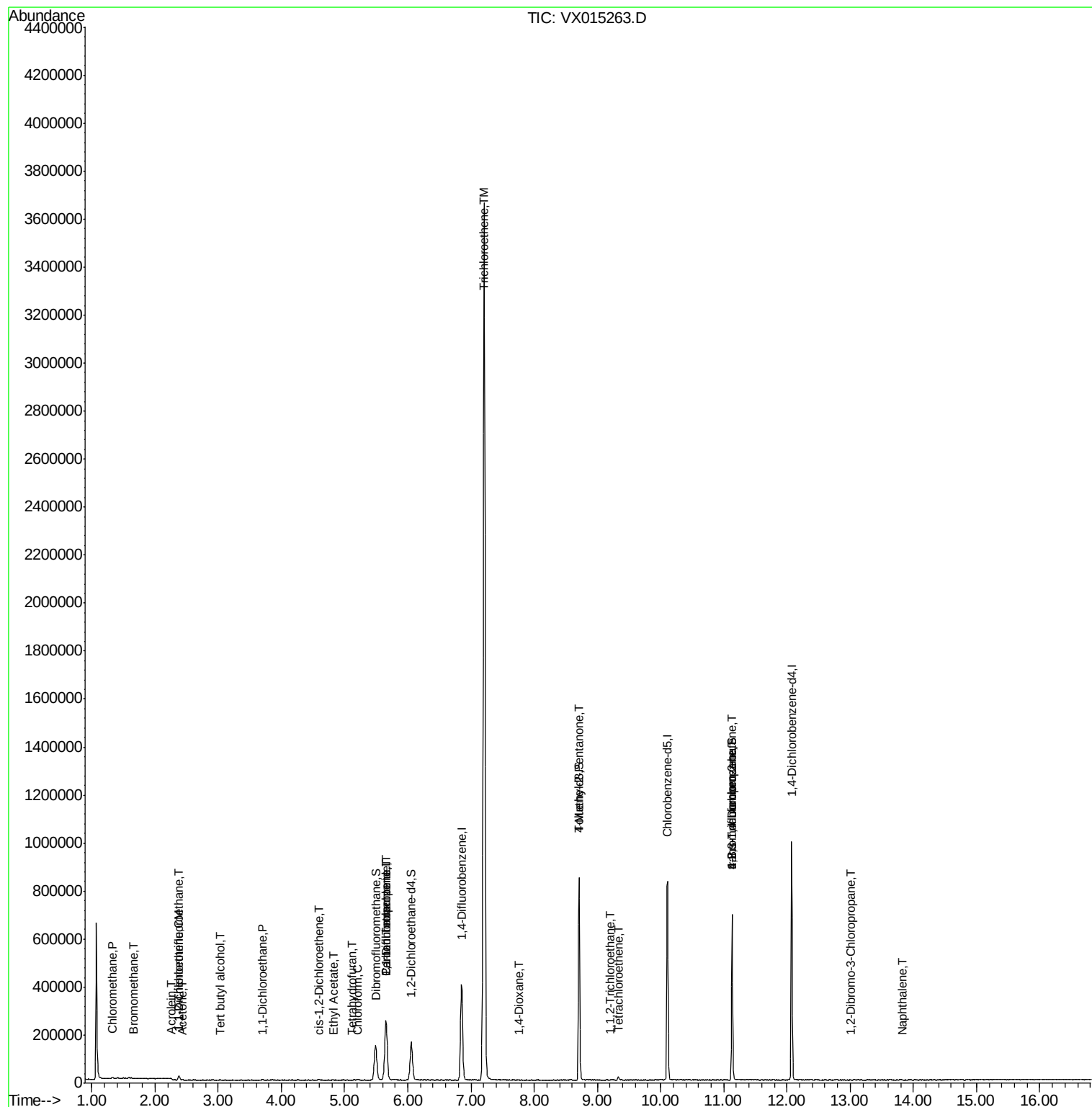
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	964	0.304	ug/l #	77
5) Bromomethane	1.66	94	496	0.251	ug/l #	36
9) 1,1,2-Trichlorotrifluoroet	2.37	101	6636	2.757	ug/l	94
11) Tert butyl alcohol	3.04	59	691	1.313	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	1309	0.527	ug/l #	66
13) Acrolein	2.26	56	146	0.295	ug/l #	1
16) Acetone	2.44	43	3088	2.515	ug/l #	79
24) 1,1-Dichloroethane	3.70	63	1936	0.404	ug/l #	94
27) cis-1,2-Dichloroethene	4.59	96	2248	0.756	ug/l	84
29) Tetrahydrofuran	5.12	42	409	0.353	ug/l #	66
30) Chloroform	5.20	83	3196	0.685	ug/l	89
36) 1,1-Dichloropropene	5.65	75	16519	4.399	ug/l #	53
37) Ethyl Acetate	4.83	43	737	0.212	ug/l #	37
38) Carbon Tetrachloride	5.65	117	22814	6.436	ug/l #	17
44) Trichloroethene	7.21	130	1444075	465.414	ug/l	96
49) 1,4-Dioxane	7.76	88	364	5.398	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	2767	0.764	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	1300	0.464	ug/l #	80
64) Tetrachloroethene	9.33	164	2628	0.793	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	89691	21.868	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	89691	62.061	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	225	0.257	ug/l #	14
95) Naphthalene	13.83	128	358	1.445	ug/l #	50

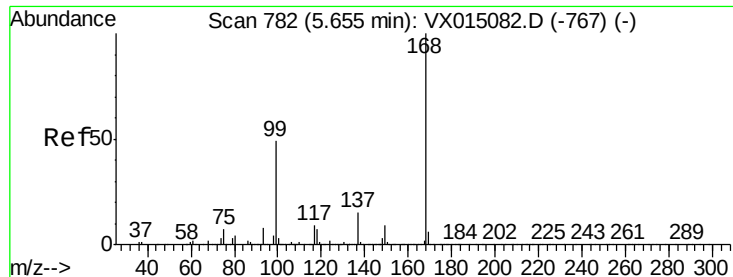
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
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: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

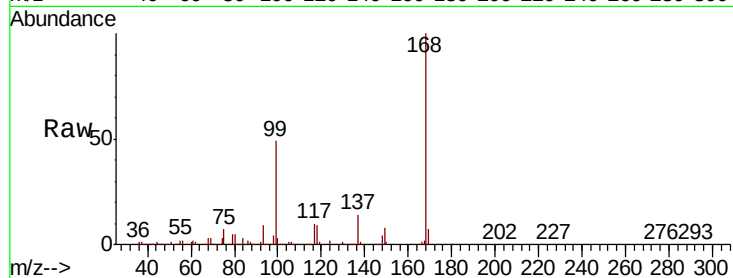
RE103D2-20200310

Tot Ion:168 Resp: 255582

Ion Ratio Lower Upper

168 100

99 49.0 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

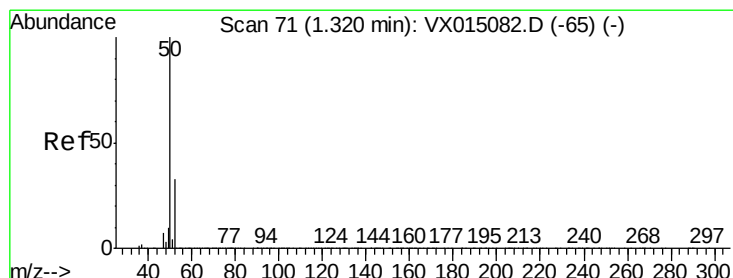
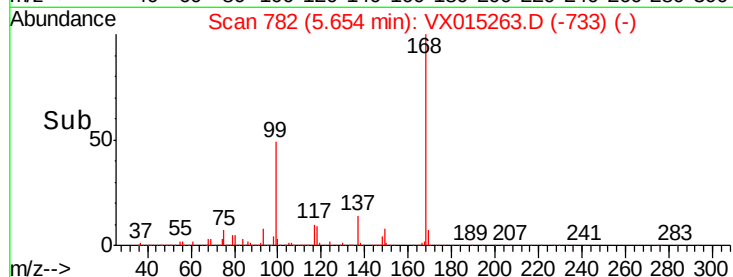
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.304 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015263.D

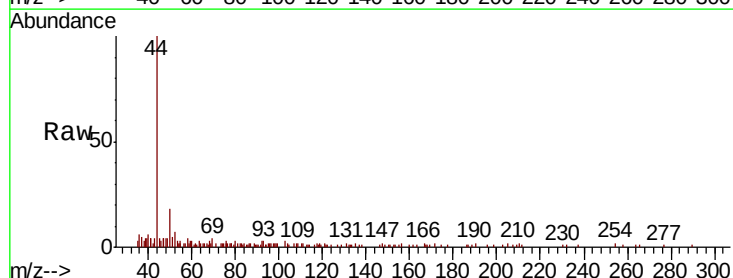
Acq: 13 Mar 2020 16:28

Tgt Ion: 50 Resp: 964

Ion Ratio Lower Upper

50 100

52 19.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

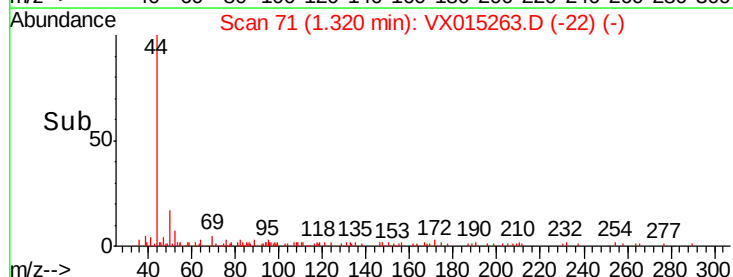
600

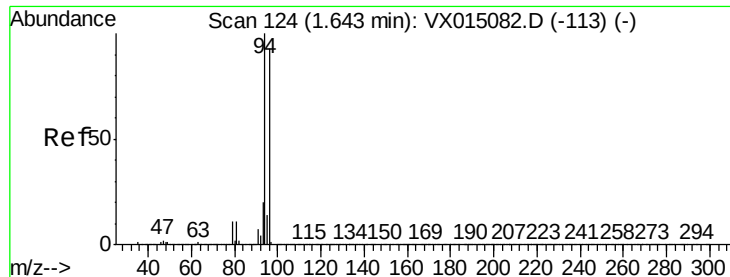
400

200

0

Time-->





#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

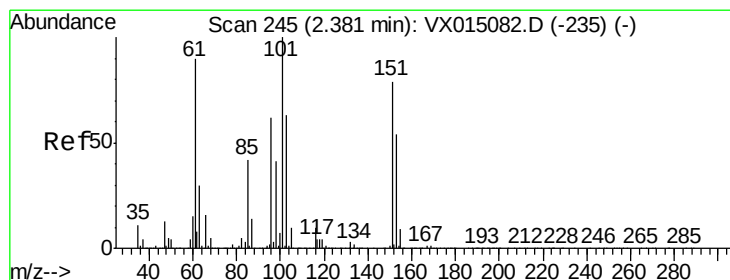
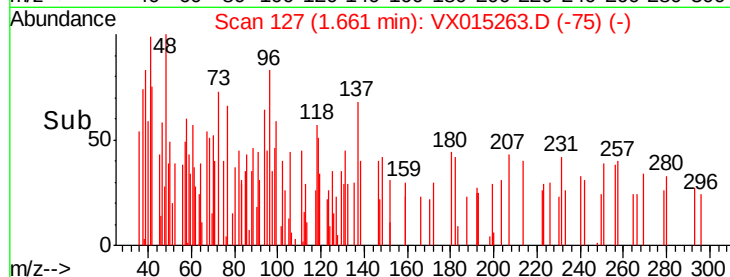
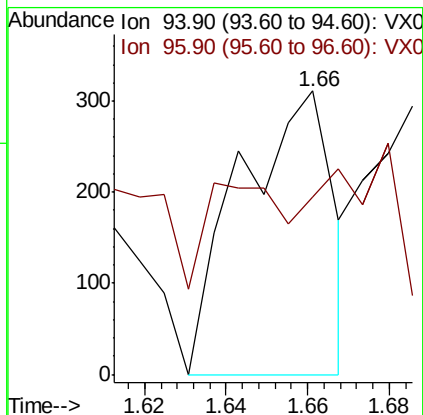
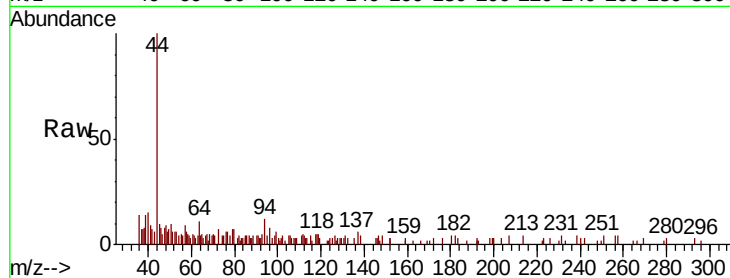
RE103D2-20200310

Tot Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 32.2 74.6 111.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.757 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

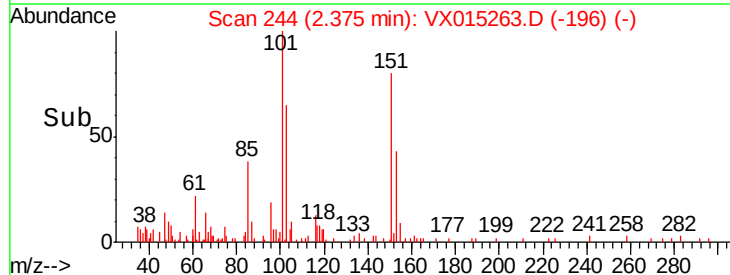
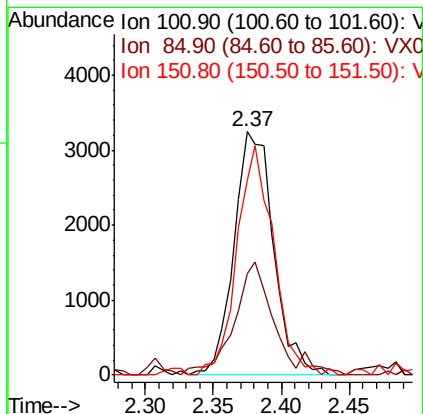
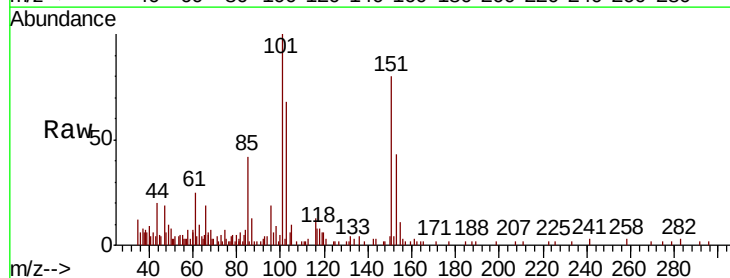
Tgt Ion: 101 Resp: 6636

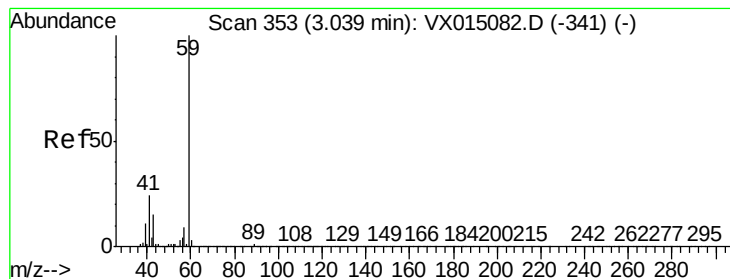
Ion Ratio Lower Upper

101 100

85 43.3 33.7 50.5

151 86.9 64.0 96.0





#11

Tert butyl alcohol

Concen: 1.313 ug/l

RT: 3.04 min Scan# 353

Delta R.T. -0.00 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

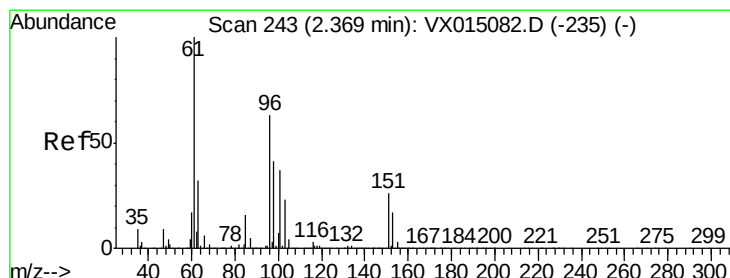
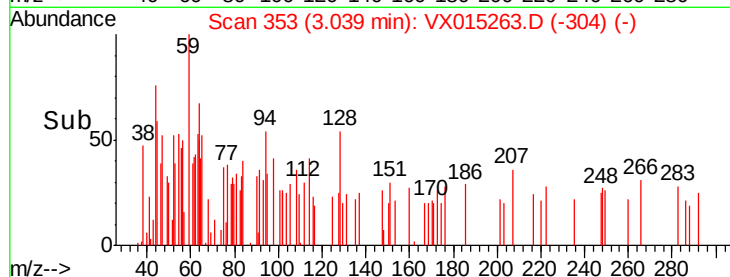
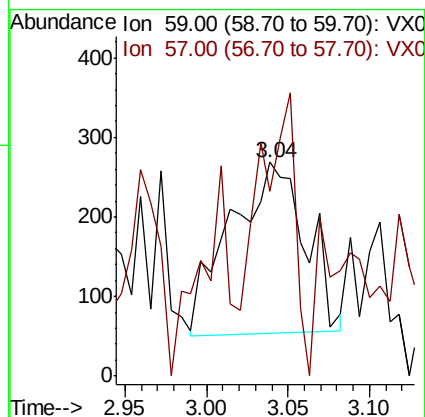
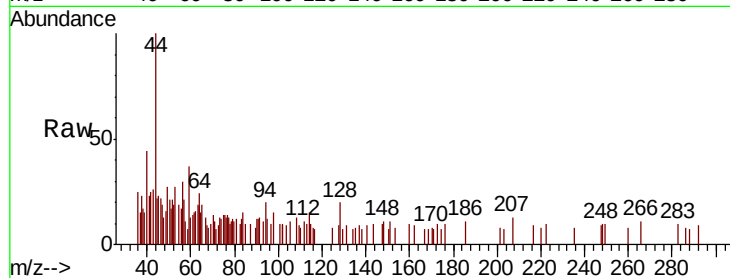
RE103D2-20200310

Tot Ion: 59 Resp: 691

Ion Ratio Lower Upper

59 100

57 77.3 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 0.527 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

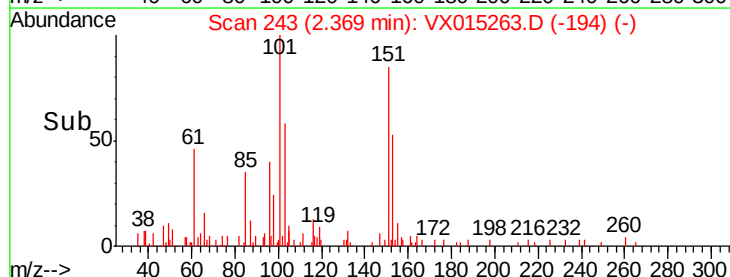
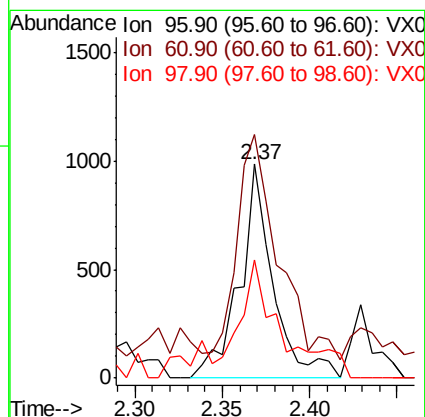
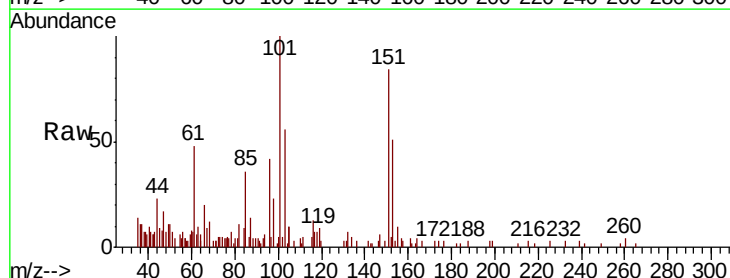
Tgt Ion: 96 Resp: 1309

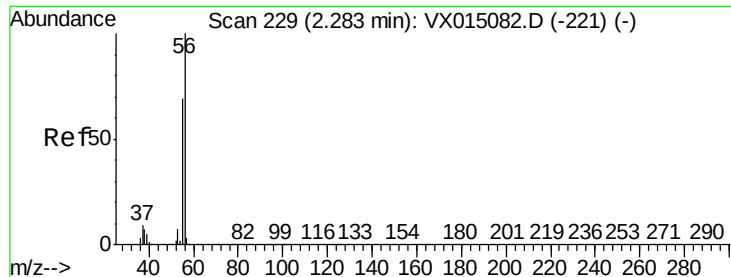
Ion Ratio Lower Upper

96 100

61 105.6 126.2 189.4#

98 49.9 51.4 77.0#





#13

Acrolein

Concen: 0.295 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

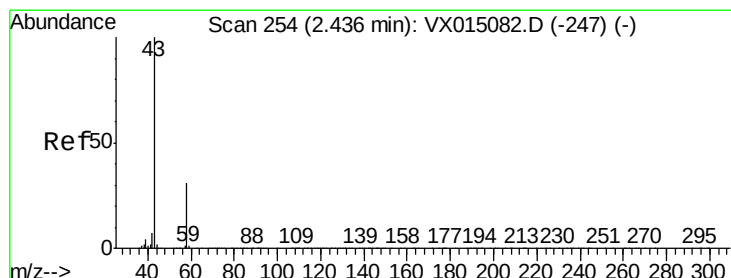
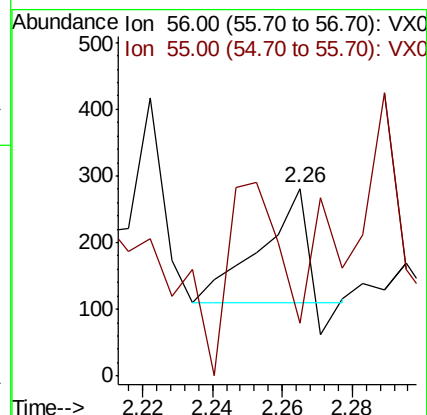
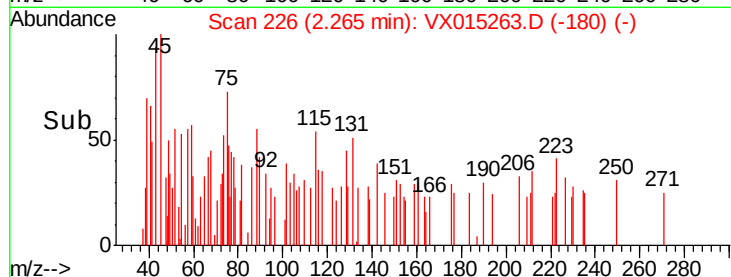
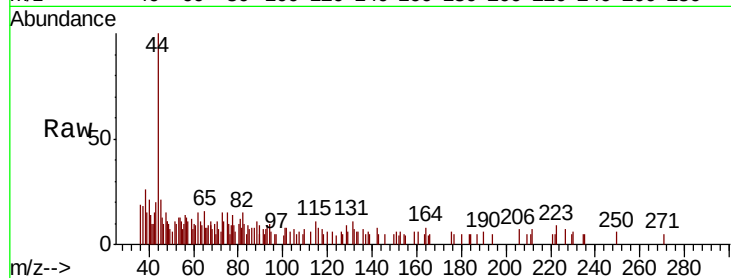
RE103D2-20200310

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 213.7 55.4 83.0#



#16

Acetone

Concen: 2.515 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX015263.D

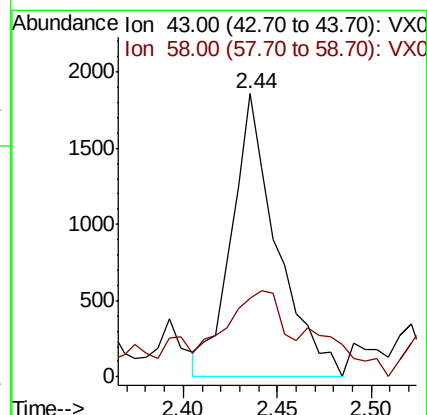
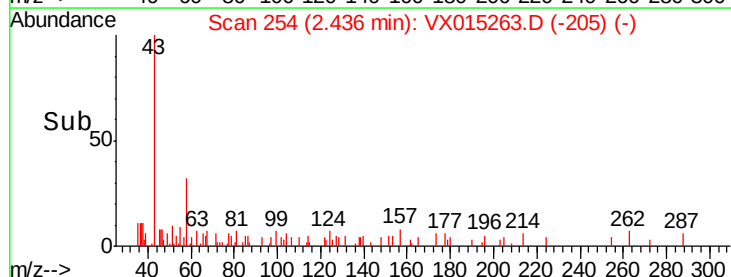
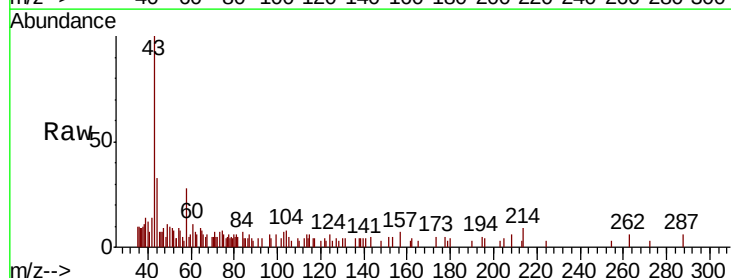
Acq: 13 Mar 2020 16:28

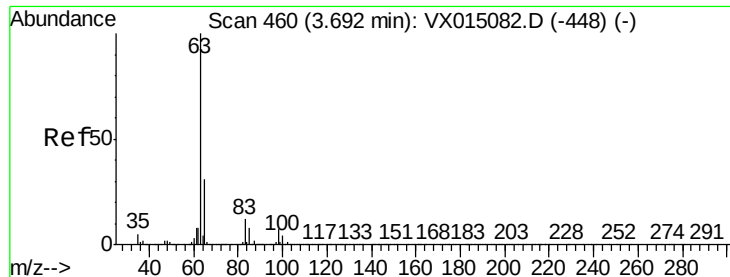
Tgt Ion: 43 Resp: 3088

Ion Ratio Lower Upper

43 100

58 19.3 24.8 37.2#





#24

1,1-Dichloroethane

Concen: 0.404 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20200310

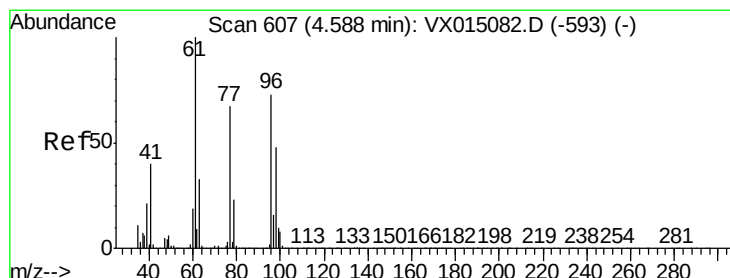
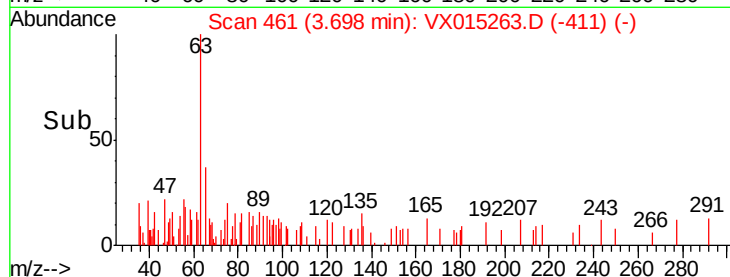
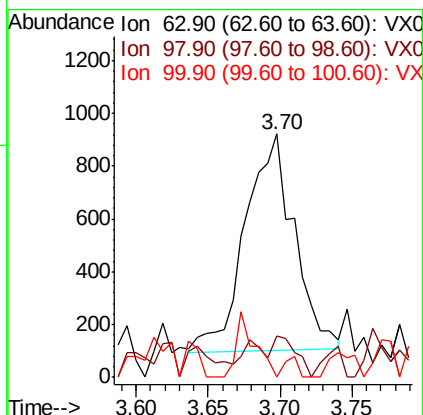
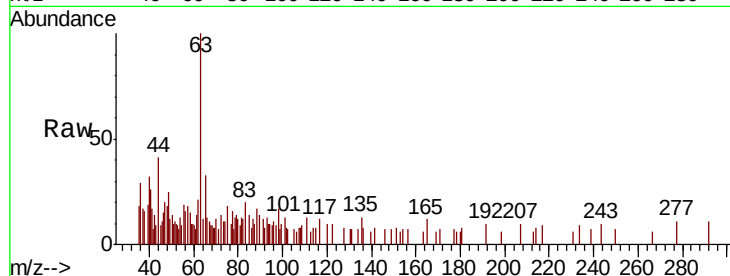
Tot Ion: 63 Resp: 1936

Ion Ratio Lower Upper

63 100

98 6.9 3.7 11.1

100 0.0 2.1 6.5#



#27

cis-1,2-Dichloroethene

Concen: 0.756 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

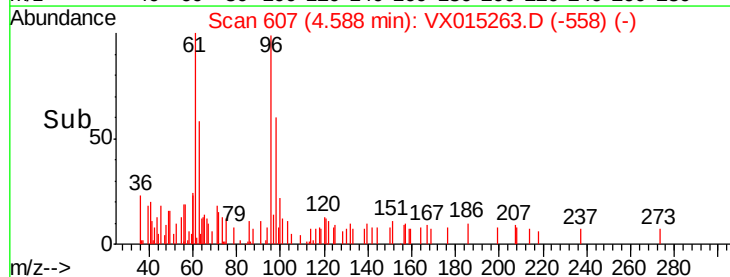
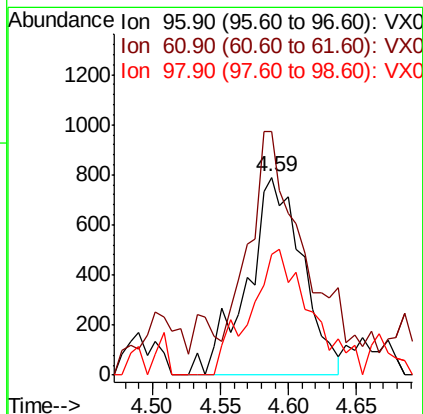
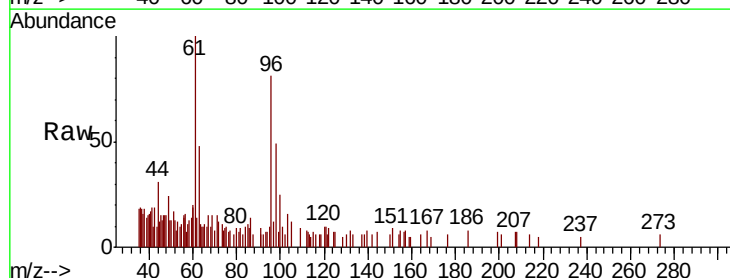
Tgt Ion: 96 Resp: 2248

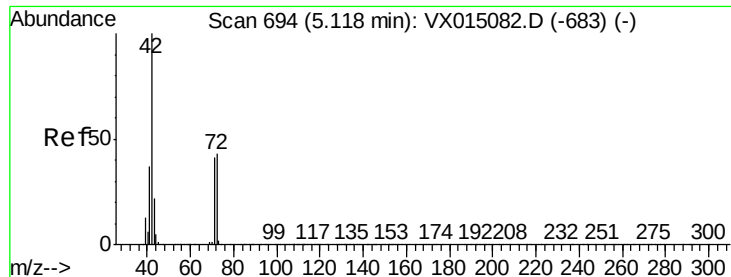
Ion Ratio Lower Upper

96 100

61 117.9 0.0 286.8

98 69.8 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.353 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

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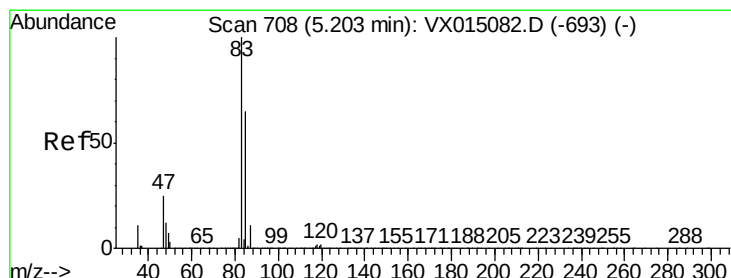
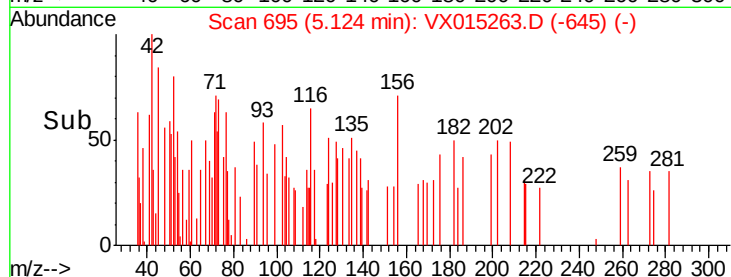
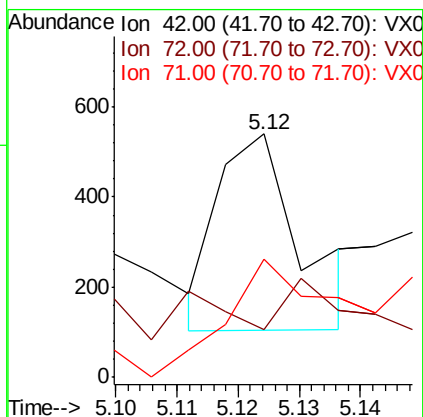
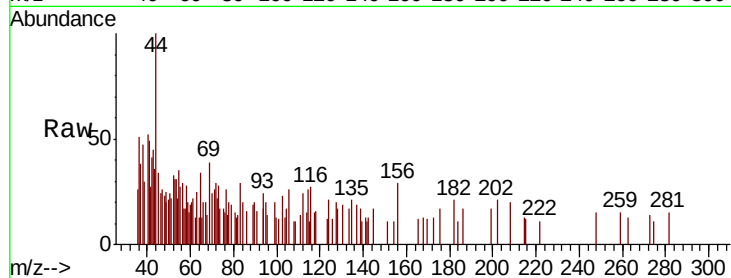
Tot Ion: 42 Resp: 409

Ion Ratio Lower Upper

42 100

72 43.5 36.4 54.6

71 84.1 33.3 49.9#



#30

Chloroform

Concen: 0.685 ug/l

RT: 5.20 min Scan# 708

Delta R.T. -0.00 min

Lab File: VX015263.D

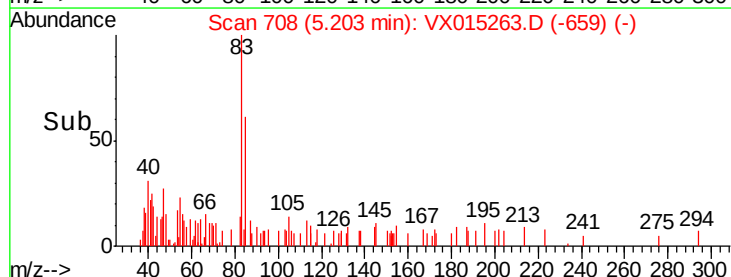
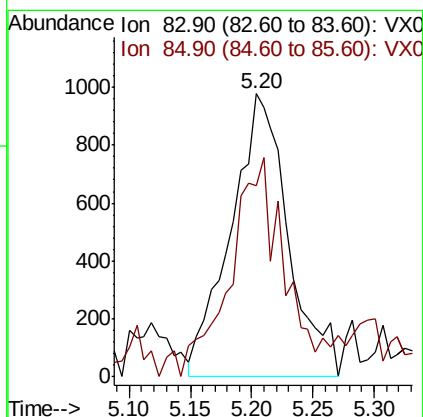
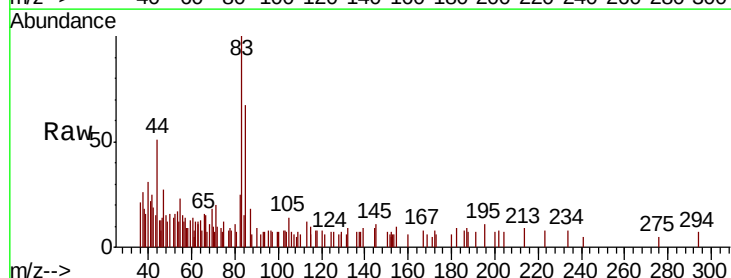
Acq: 13 Mar 2020 16:28

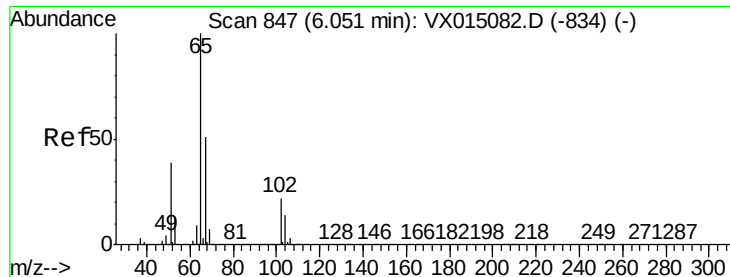
Tgt Ion: 83 Resp: 3196

Ion Ratio Lower Upper

83 100

85 56.1 52.0 78.0

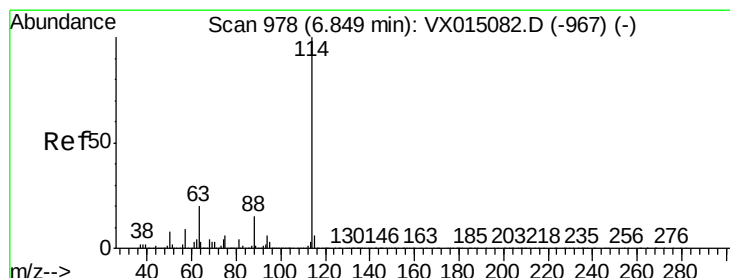
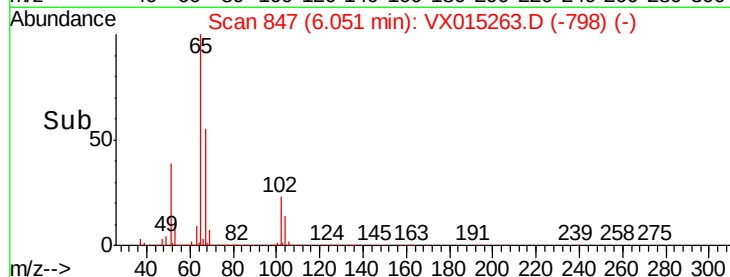
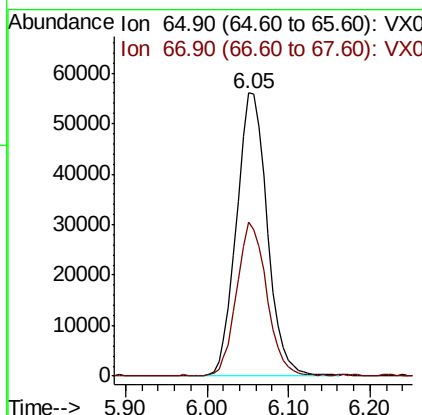
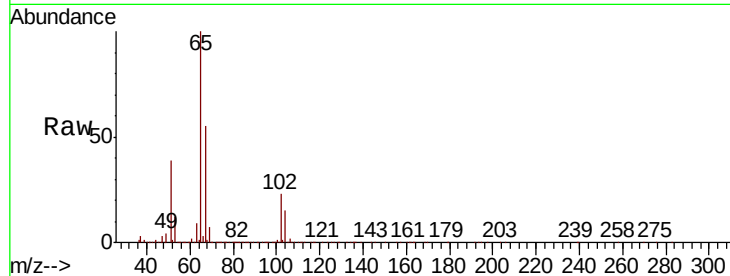




#33
 1,2-Dichloroethane-d4
 Concen: 48.342 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

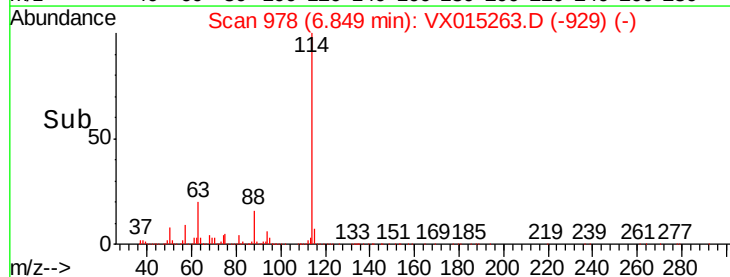
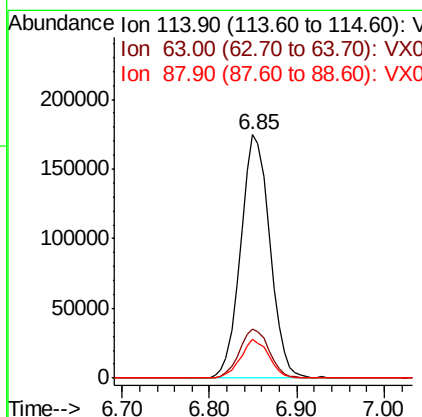
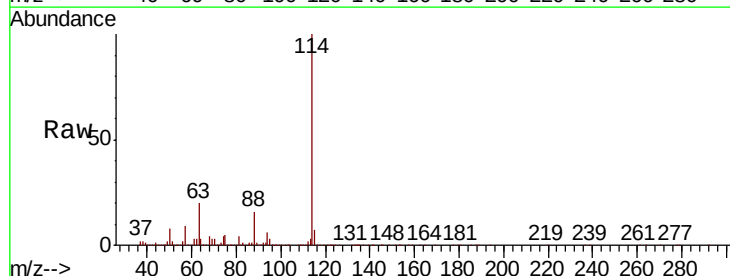
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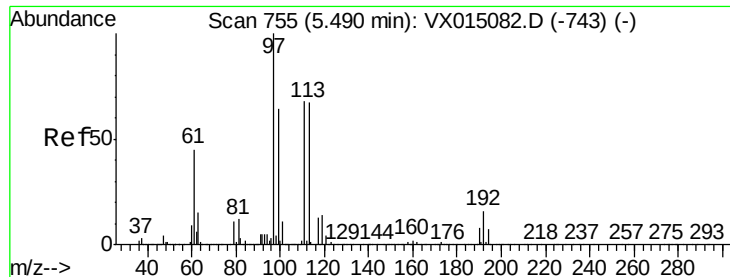
Tot Ion: 65 Resp: 146580
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

Tgt Ion: 114 Resp: 406209
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.0
 88 16.1 0.0 30.6

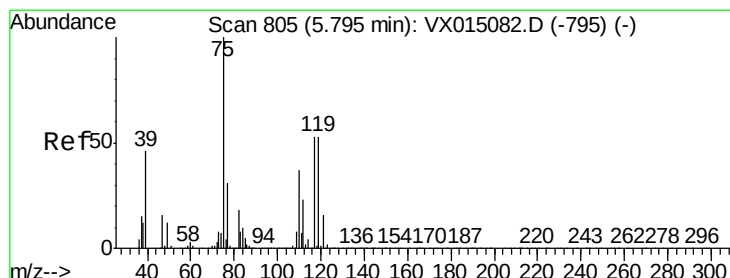
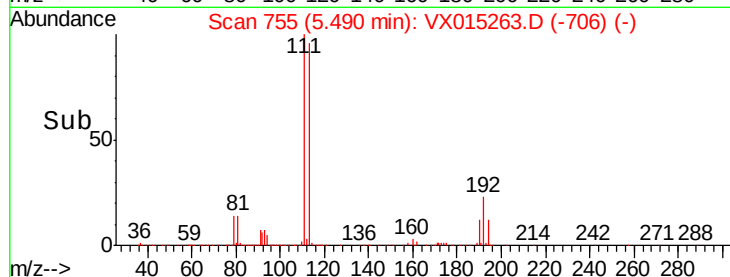
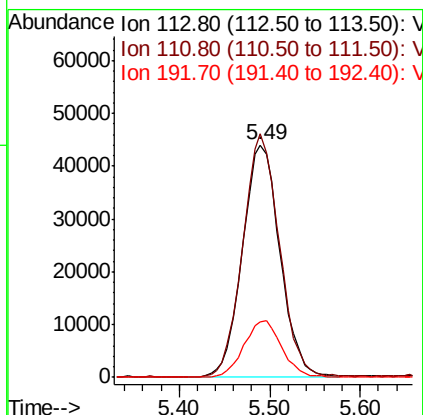
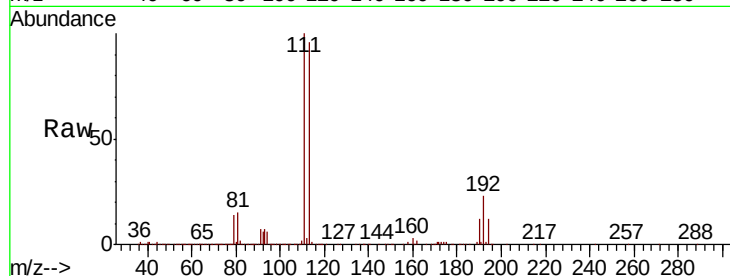




#35
 Dibromofluoromethane
 Concen: 49.279 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

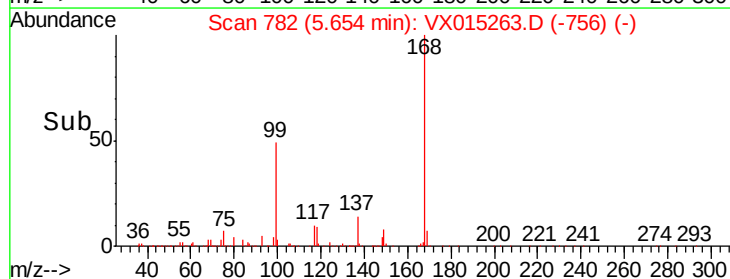
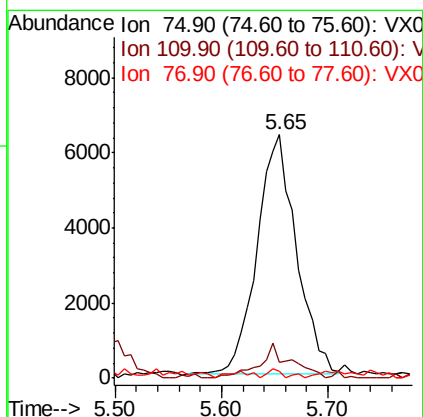
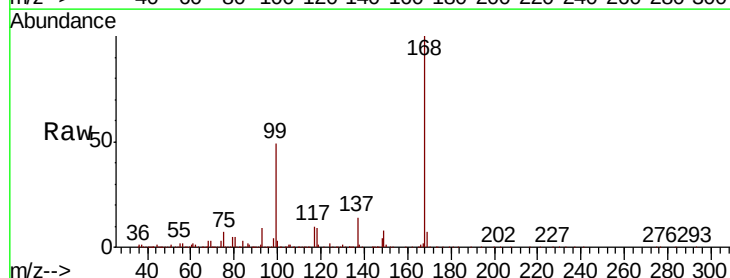
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20200310

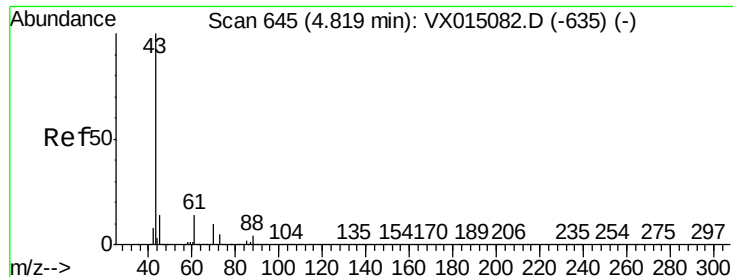
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	24.6	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.399 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	17.9	53.8#
77	1.4	24.8	37.2#

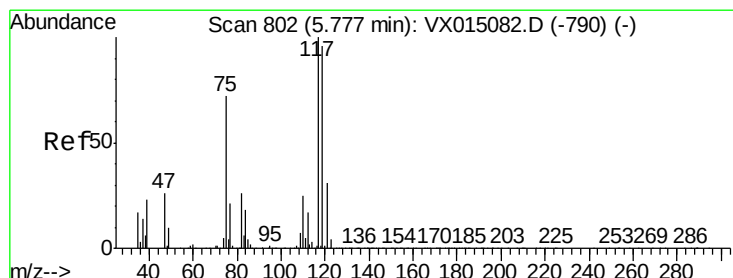
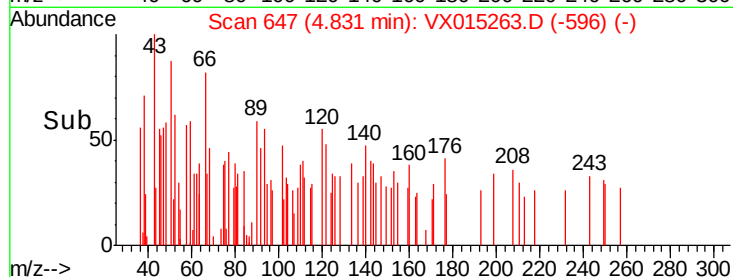
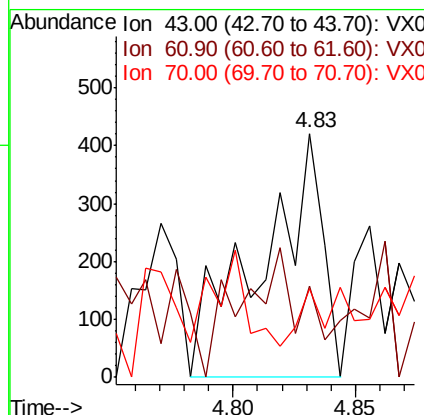
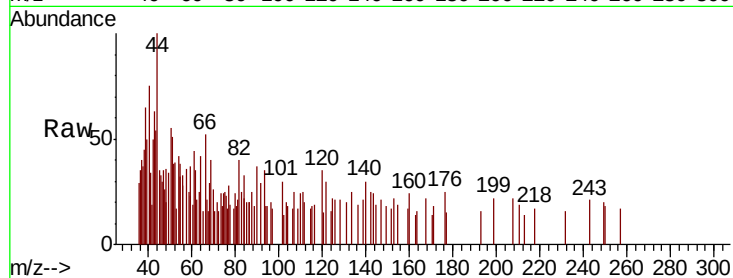




#37
Ethyl Acetate
Concen: 0.212 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX015263.D
Acq: 13 Mar 2020 16:28

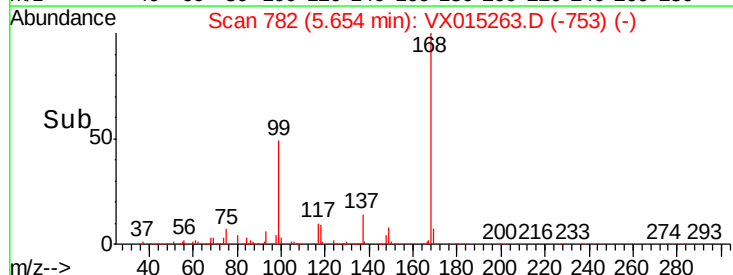
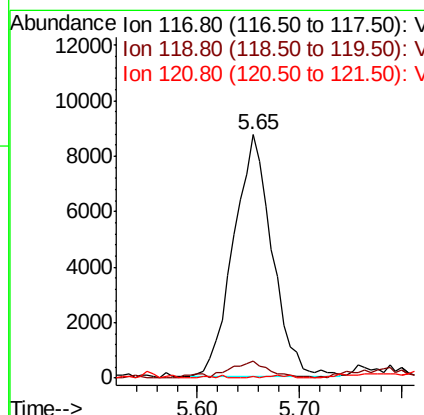
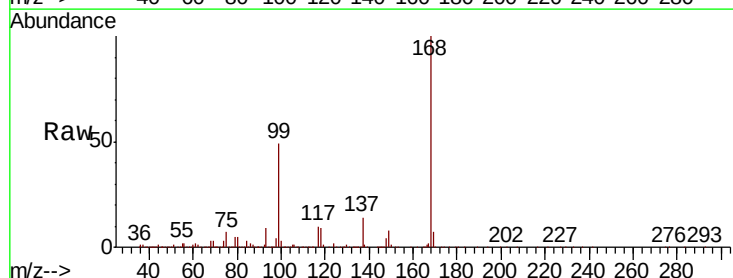
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20200310

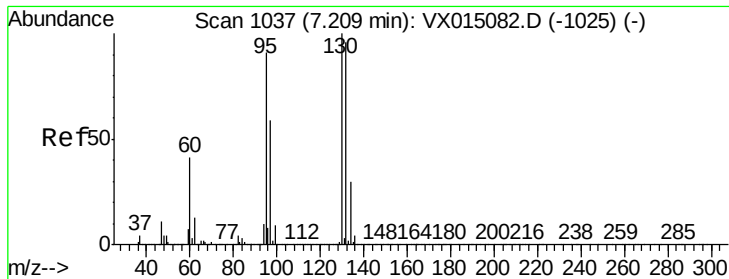
Tot Ion: 43 Resp: 737
Ion Ratio Lower Upper
43 100
61 53.3 11.0 16.4#
70 16.0 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 6.436 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX015263.D
Acq: 13 Mar 2020 16:28

Tgt Ion: 117 Resp: 22814
Ion Ratio Lower Upper
117 100
119 5.7 76.9 115.3#
121 0.8 24.6 37.0#





#44

Trichloroethene

Concen: 465.414 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

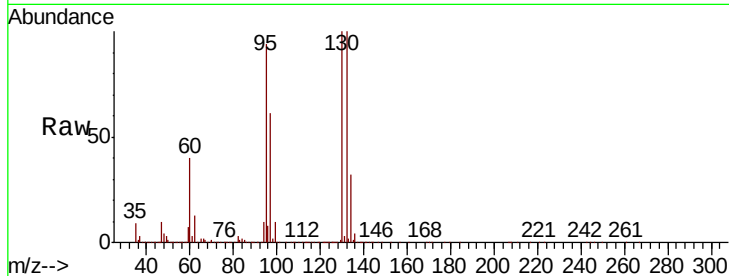
RE103D2-20200310

Tot Ion:130 Resp: 1444075

Ion Ratio Lower Upper

130 100

95 93.9 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

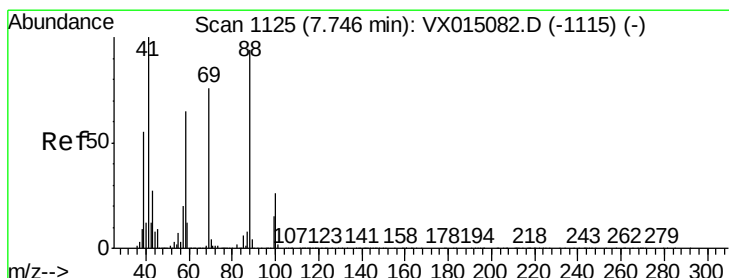
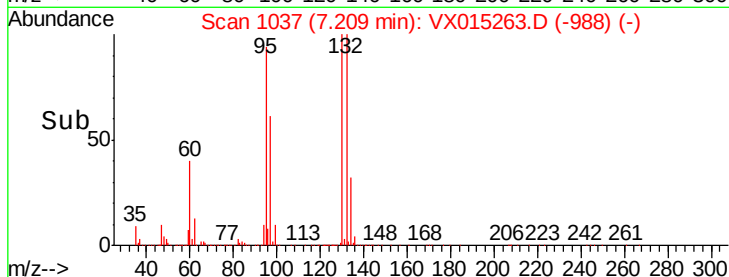
600000

400000

200000

0

Time-->



#49

1,4-Dioxane

Concen: 5.398 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

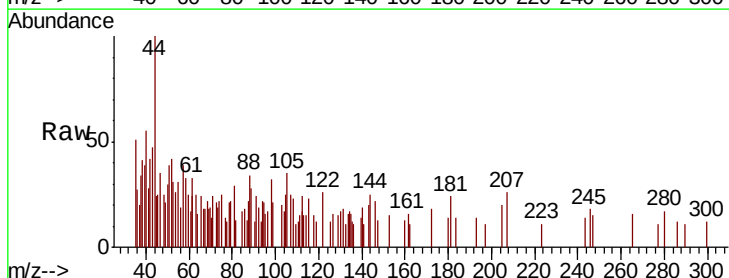
Tgt Ion: 88 Resp: 364

Ion Ratio Lower Upper

88 100

43 217.6 27.0 40.4#

58 71.4 55.6 83.4



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

400

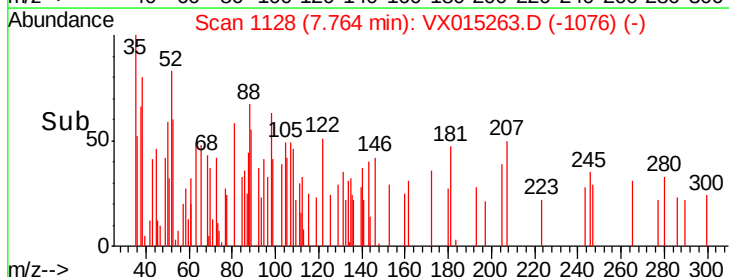
300

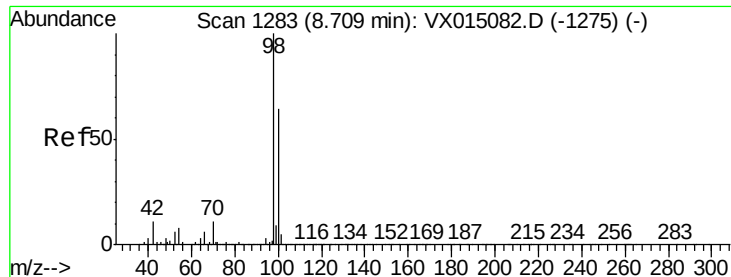
200

100

0

Time-->





#50

Toluene-d8

Concen: 50.968 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

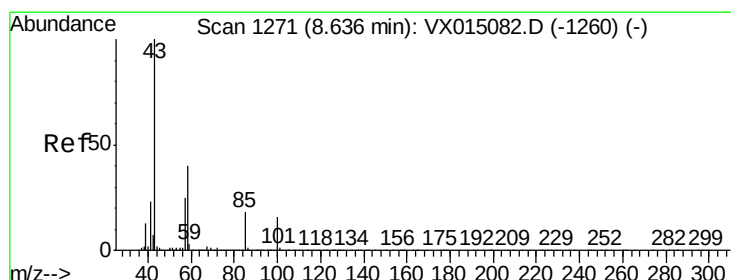
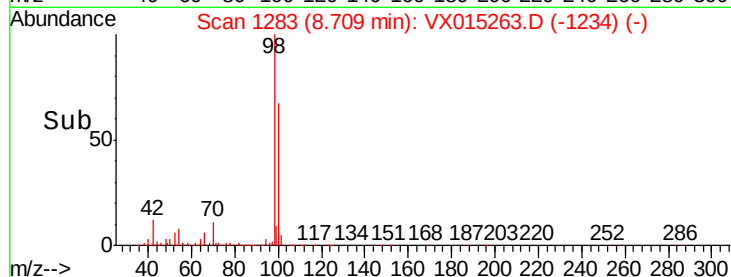
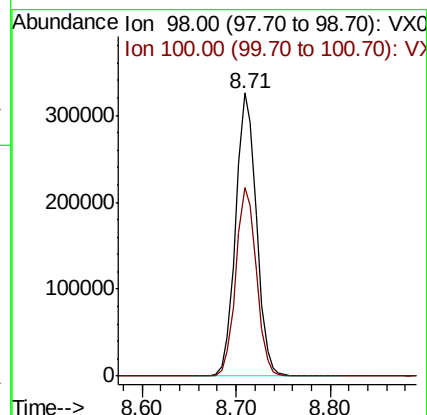
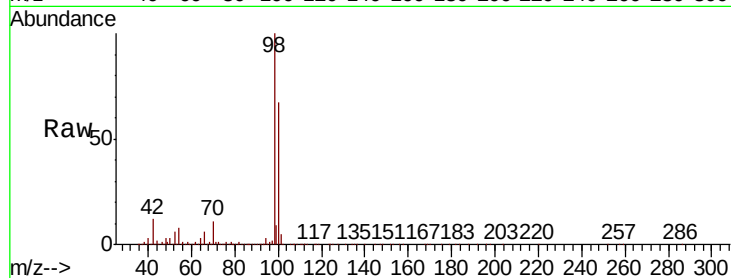
RE103D2-20200310

Tot Ion: 98 Resp: 496830

Ion Ratio Lower Upper

98 100

100 65.9 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 0.764 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX015263.D

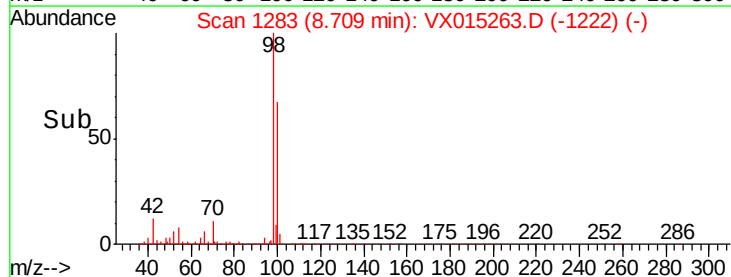
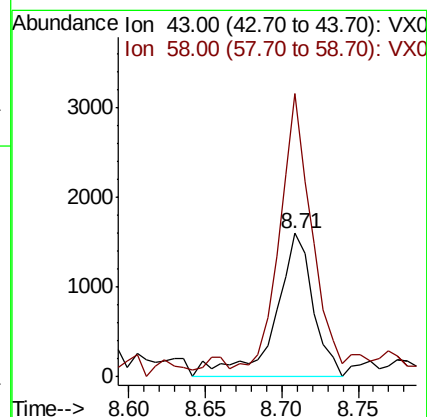
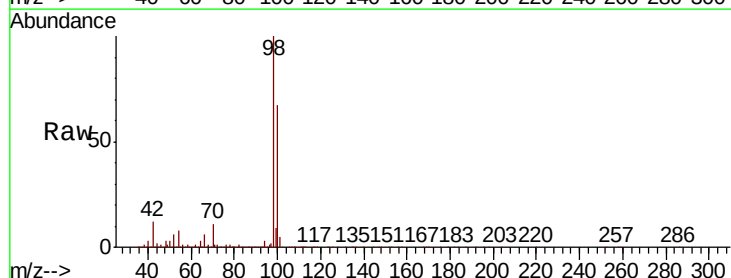
Acq: 13 Mar 2020 16:28

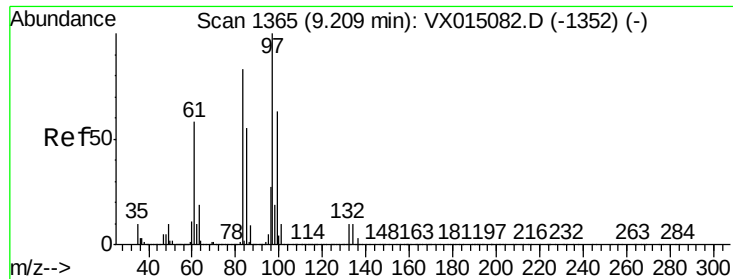
Tgt Ion: 43 Resp: 2767

Ion Ratio Lower Upper

43 100

58 166.9 31.6 47.4#

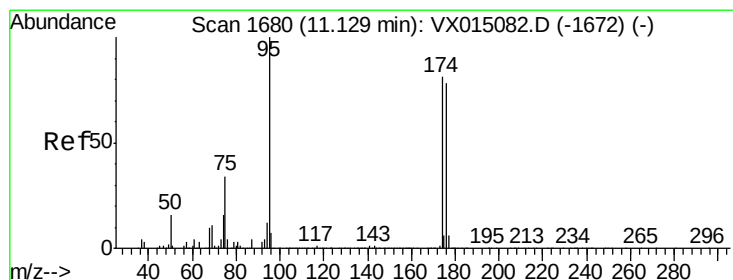
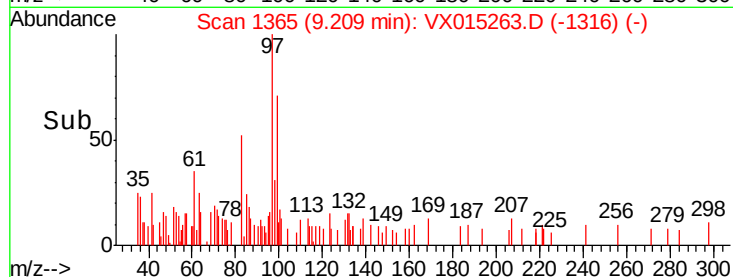
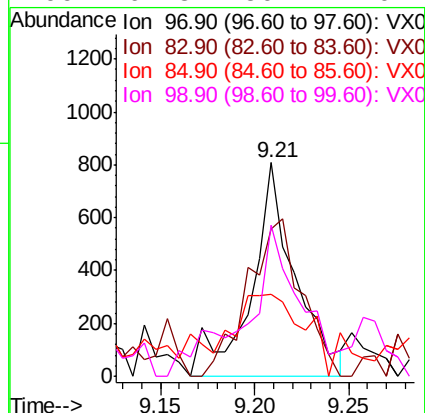
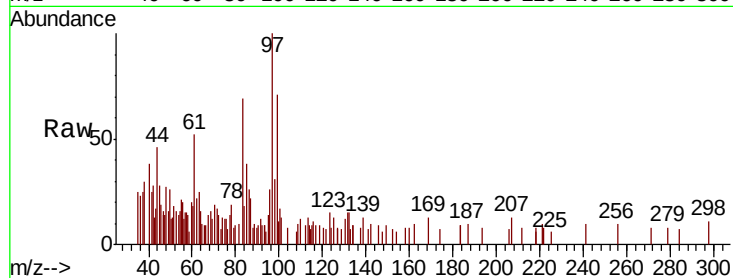




#55
 1,1,2-Trichloroethane
 Concen: 0.464 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

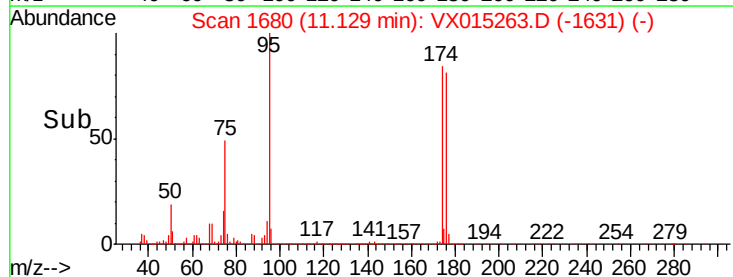
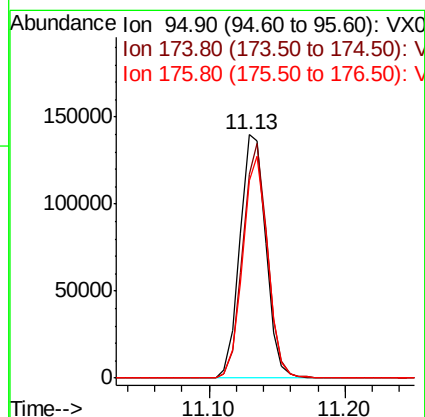
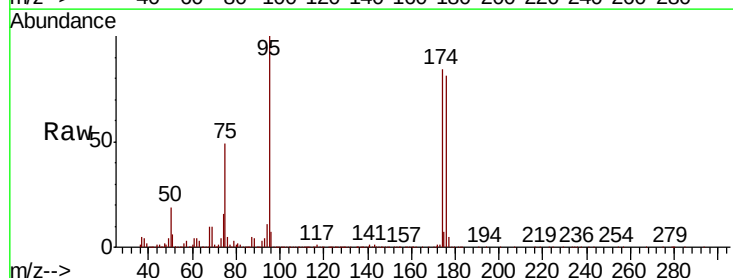
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20200310

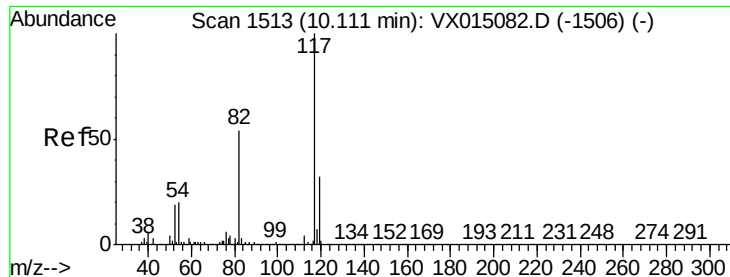
Tot Ion:	97	Resp:	1300
Ion	Ratio	Lower	Upper
97	100		
83	68.9	66.4	99.6
85	18.6	43.5	65.3#
99	62.3	50.7	76.1



#62
 4-Bromofluorobenzene
 Concen: 53.338 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

Tgt Ion:	95	Resp:	185454
Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	177.6
176	88.2	0.0	170.2

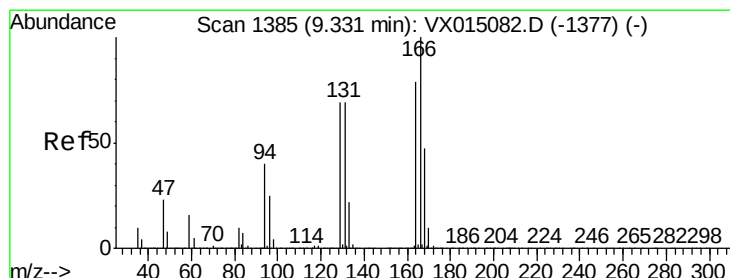
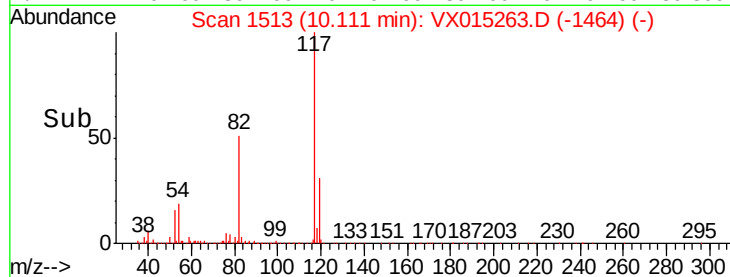
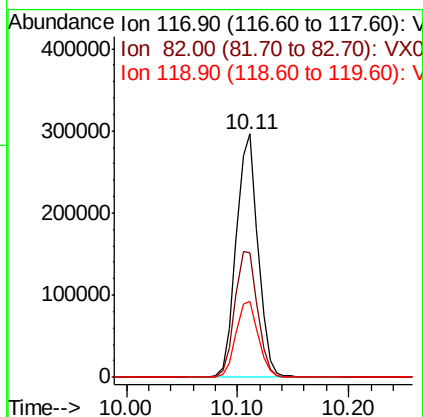
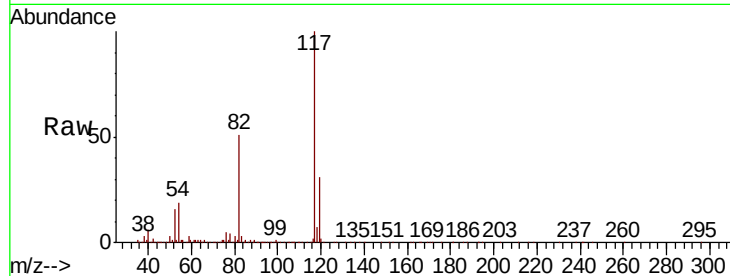




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015263.D
Acq: 13 Mar 2020 16:28

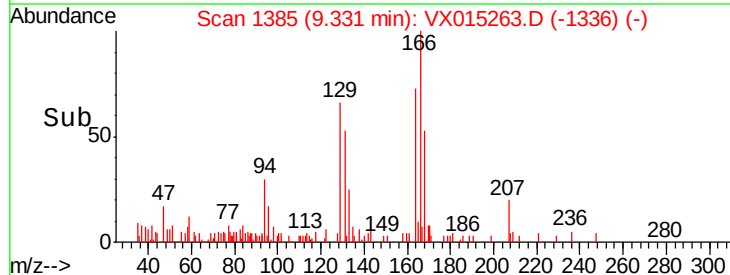
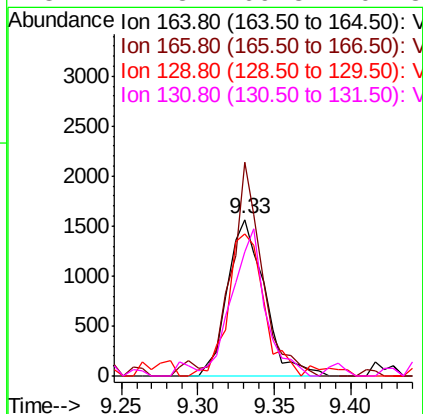
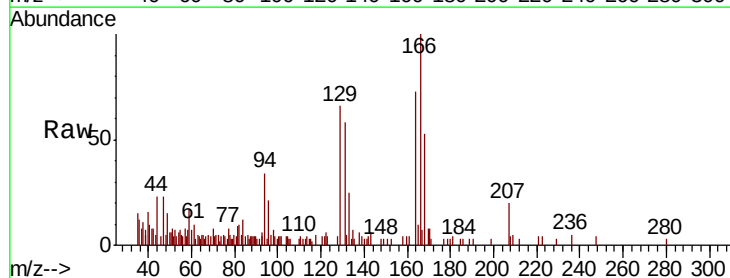
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20200310

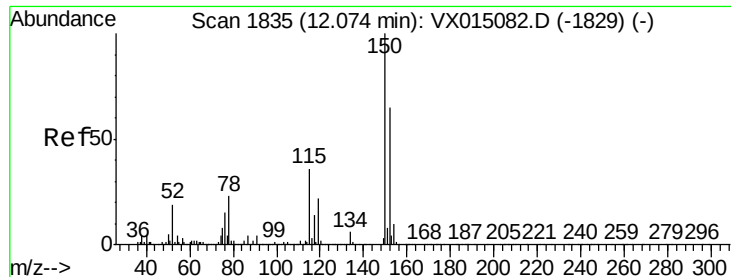
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.9	43.3	64.9
119	31.3	25.8	38.8



#64
Tetrachloroethene
Concen: 0.793 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX015263.D
Acq: 13 Mar 2020 16:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.5	101.1	151.7
129	90.4	69.4	104.0
131	72.3	69.8	104.8

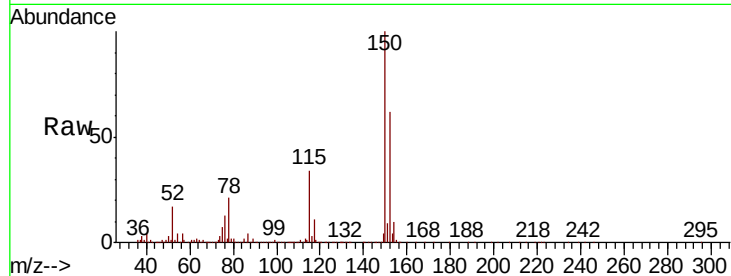




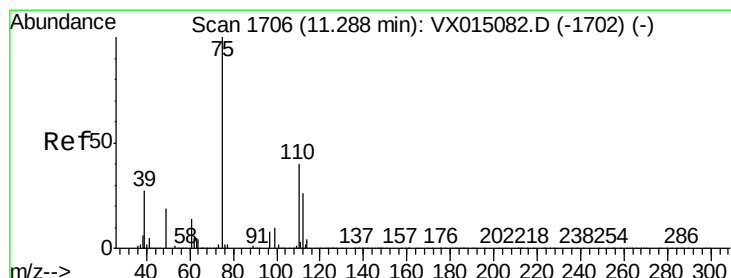
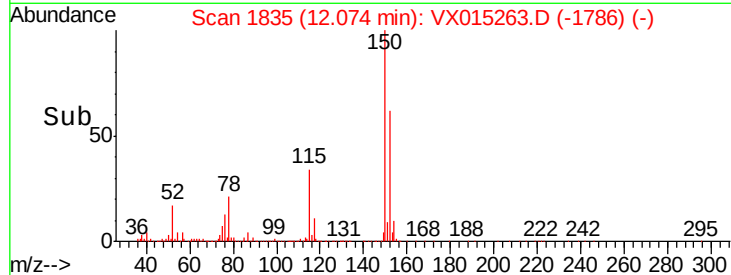
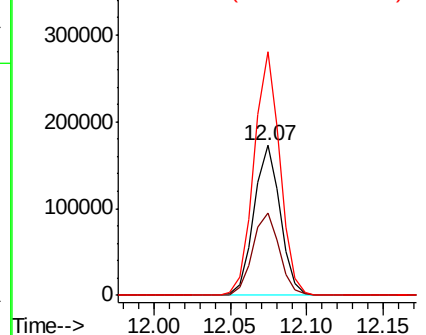
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20200310

Tot Ion:152 Resp: 205622
 Ion Ratio Lower Upper
 152 100
 115 55.7 38.2 114.6
 150 160.1 0.0 343.8

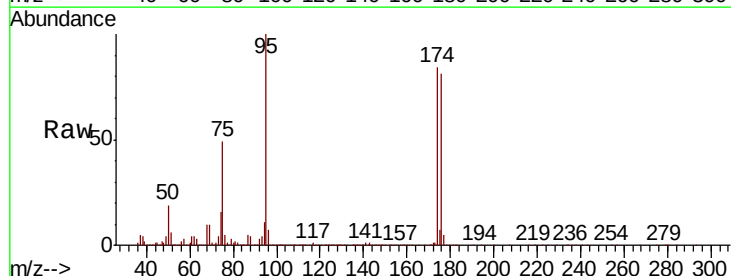


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

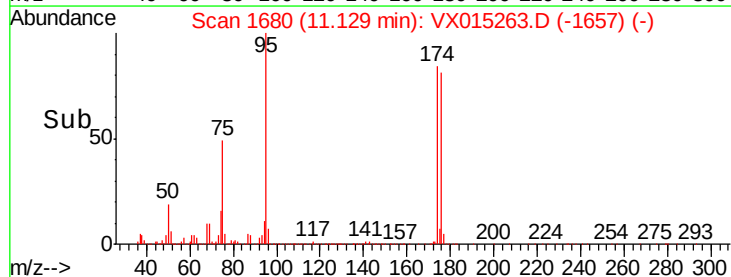
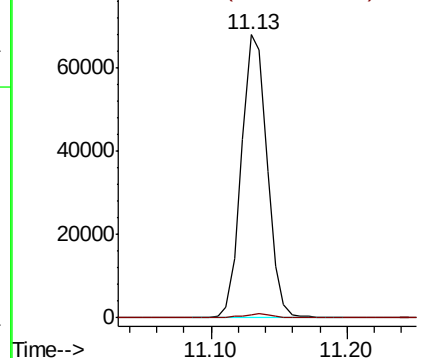


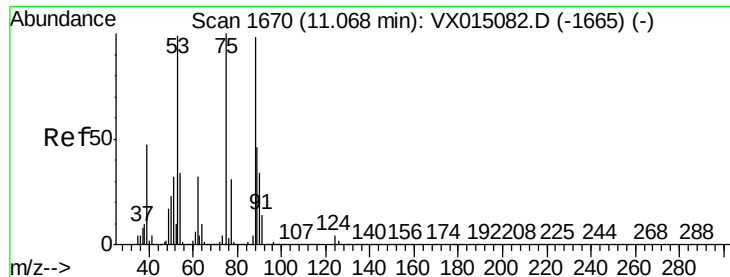
#76
 1,2,3-Trichloropropane
 Concen: 21.868 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015263.D
 Acq: 13 Mar 2020 16:28

Tgt Ion: 75 Resp: 89691
 Ion Ratio Lower Upper
 75 100
 77 1.6 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: 62.061 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20200310

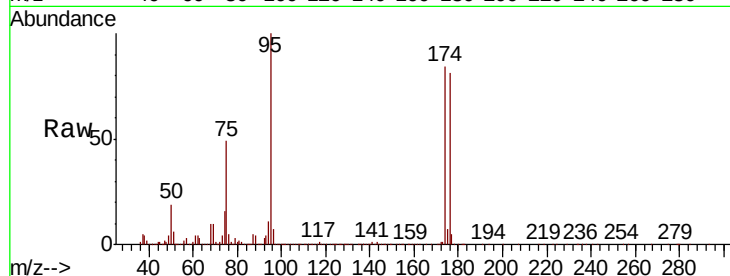
Tot Ion: 75 Resp: 89691

Ion Ratio Lower Upper

75 100

53 0.4 77.9 116.9#

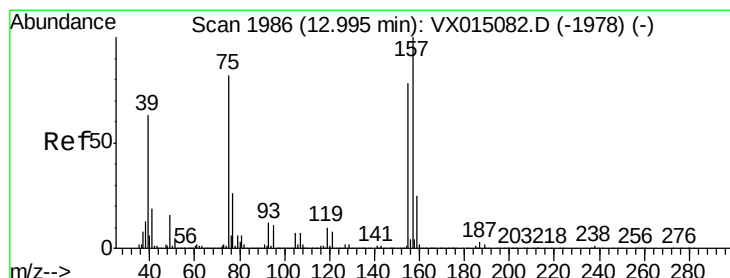
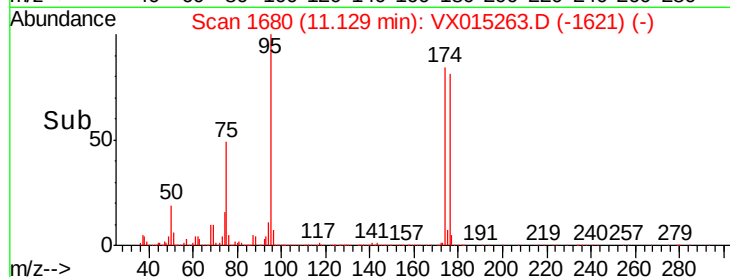
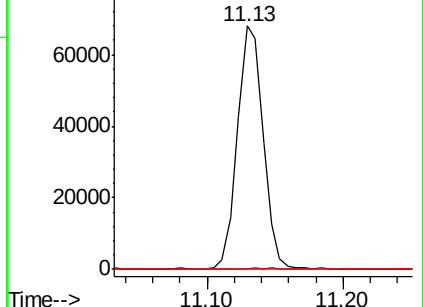
89 0.3 36.2 54.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.257 ug/l

RT: 13.01 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VX015263.D

Acq: 13 Mar 2020 16:28

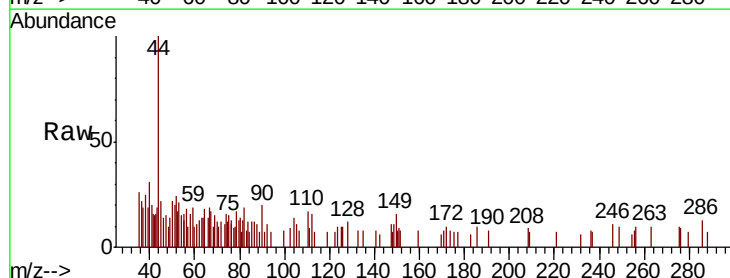
Tgt Ion: 75 Resp: 225

Ion Ratio Lower Upper

75 100

155 9.8 46.6 139.7#

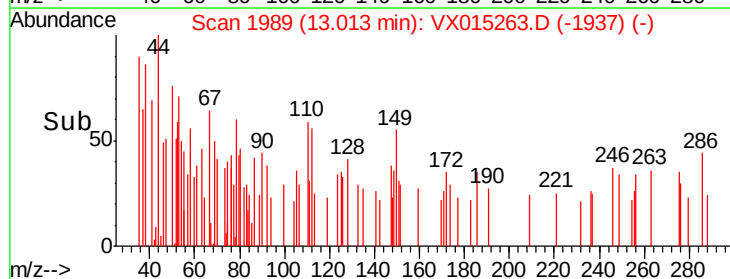
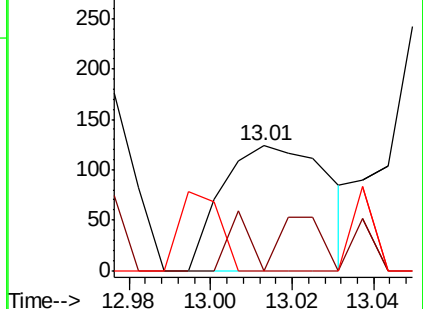
157 23.6 59.2 177.5#

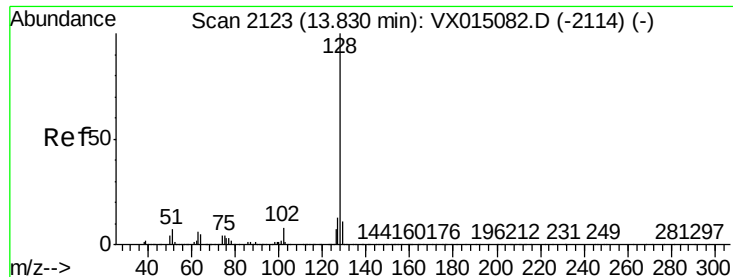


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 1.445 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015263.D
Acq: 13 Mar 2020 16:28

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20200310

Tot Ion	Ratio	Lower	Upper
128	100		
127	39.7	10.3	15.5#
129	0.0	8.6	13.0#

