

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031620\
 Data File : VX015294.D
 Acq On : 16 Mar 2020 15:12
 Operator : JC/SP
 Sample : L1903-21 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310

Quant Time: Mar 17 07:41:49 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	329179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	538345	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	514176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	256263	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	186960	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
35) Dibromofluoromethane	5.49	113	162524	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
50) Toluene-d8	8.71	98	639507	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.13	95	243894	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	

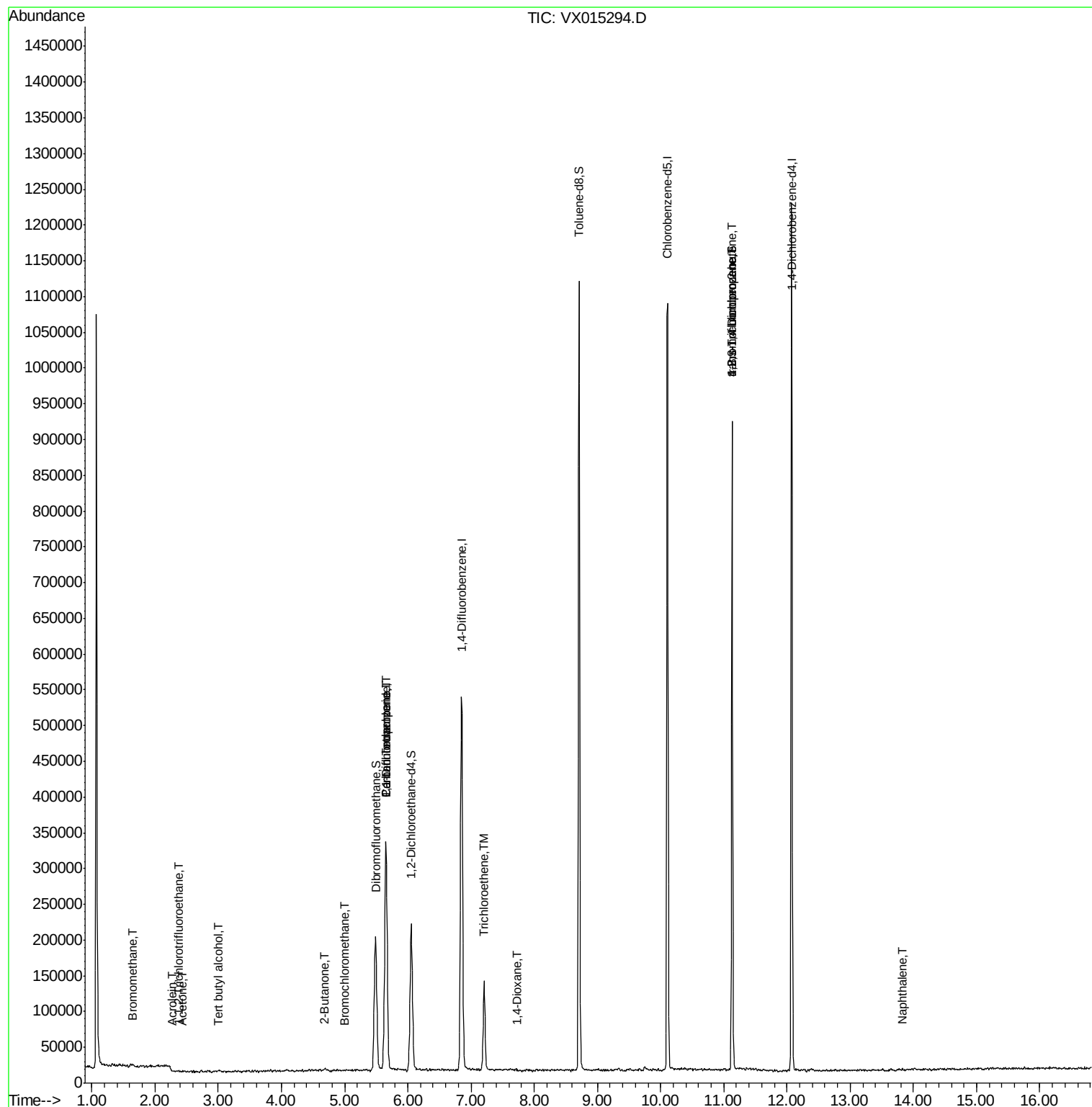
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1092	0.429	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	2.37	101	799	0.258	ug/l #	81
11) Tert butyl alcohol	3.01	59	1220	1.801	ug/l #	64
13) Acrolein	2.28	56	250	0.393	ug/l	98
16) Acetone	2.44	43	804	0.508	ug/l #	67
25) 2-Butanone	4.67	43	504	0.218	ug/l #	49
28) Bromochloromethane	5.00	49	699	0.249	ug/l #	8
36) 1,1-Dichloropropene	5.65	75	21912	4.403	ug/l #	53
38) Carbon Tetrachloride	5.65	117	28700	6.109	ug/l #	16
44) Trichloroethene	7.21	130	50006	12.161	ug/l	87
49) 1,4-Dioxane	7.73	88	914	10.227	ug/l #	31
76) 1,2,3-Trichloropropane	11.13	75	115908	22.675	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	115908	64.352	ug/l #	11
95) Naphthalene	13.83	128	725	1.461	ug/l #	55

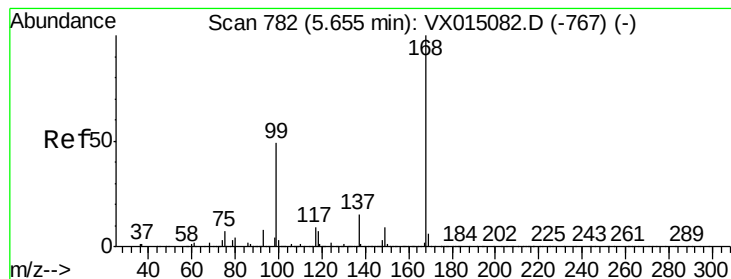
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

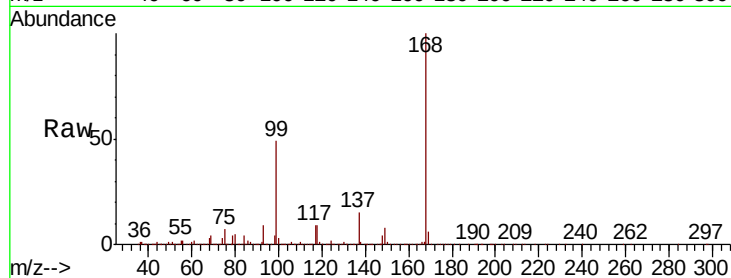
RE103D1-20200310

Tot Ion:168 Resp: 329179

Ion Ratio Lower Upper

168 100

99 49.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

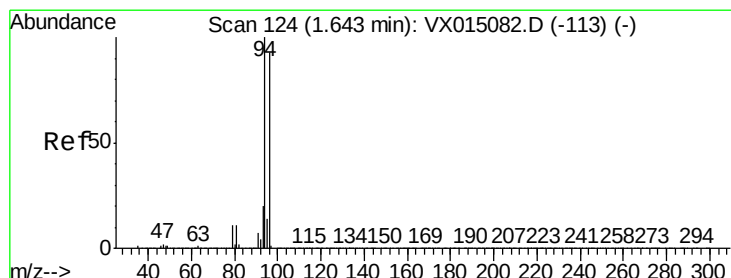
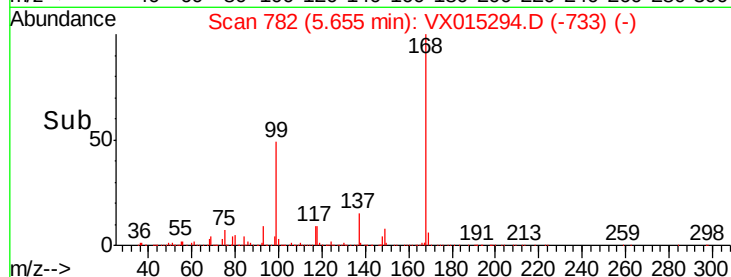
5.65

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.429 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015294.D

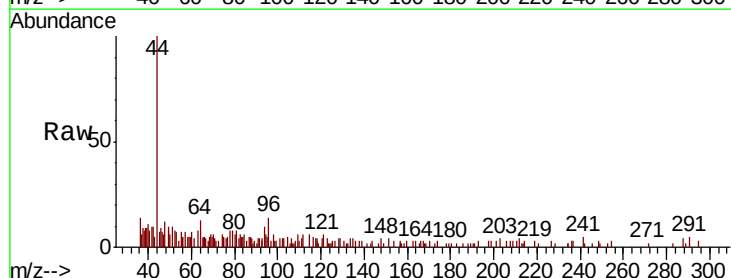
Acq: 16 Mar 2020 15:12

Tgt Ion: 94 Resp: 1092

Ion Ratio Lower Upper

94 100

96 64.4 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

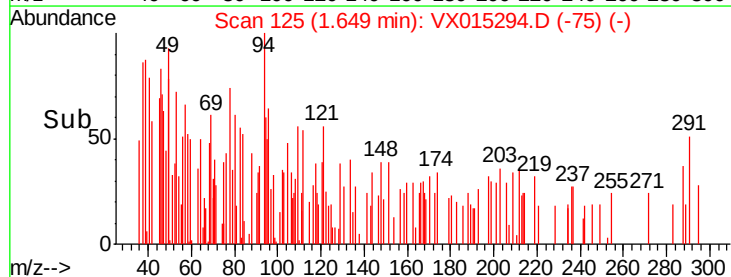
300

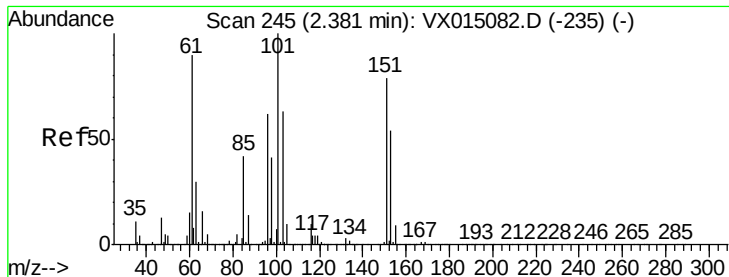
200

100

0

Time--> 1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.258 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

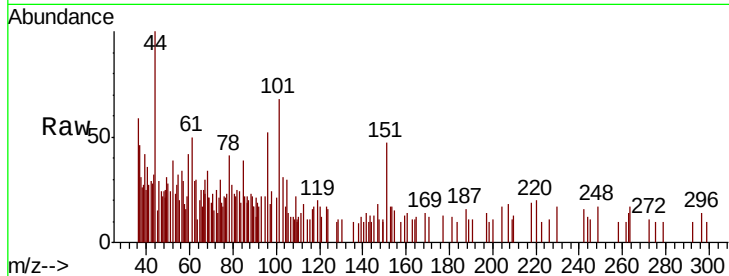
Tot Ion:101 Resp: 799

Ion Ratio Lower Upper

101 100

85 76.7 33.7 50.5#

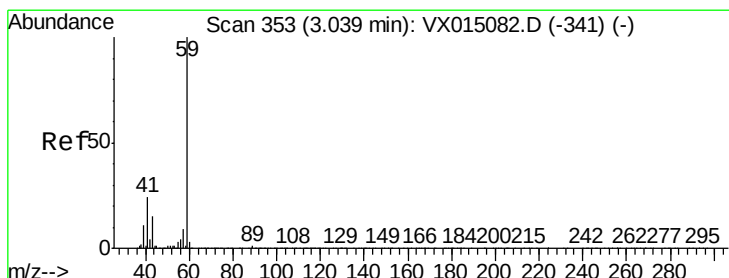
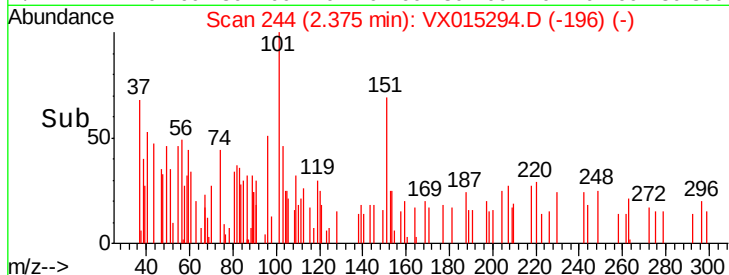
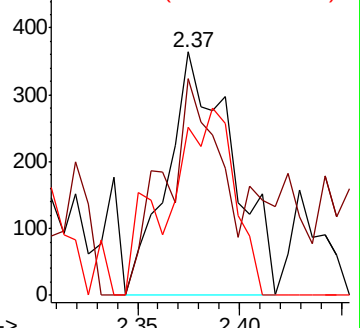
151 80.0 64.0 96.0



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: 1.801 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX015294.D

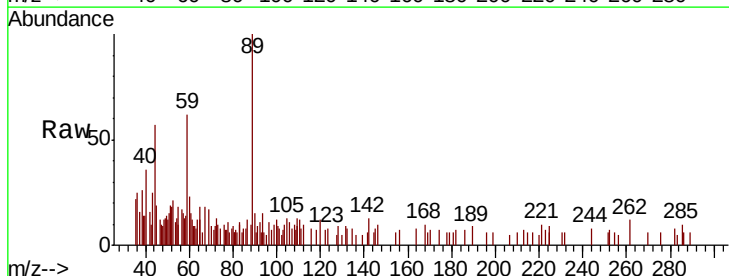
Acq: 16 Mar 2020 15:12

Tgt Ion: 59 Resp: 1220

Ion Ratio Lower Upper

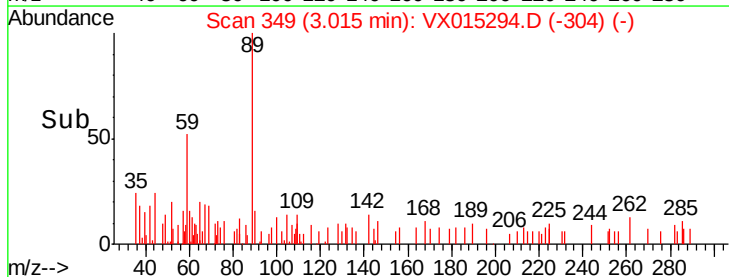
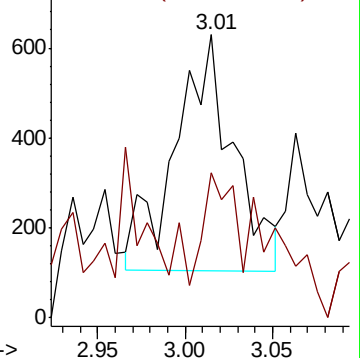
59 100

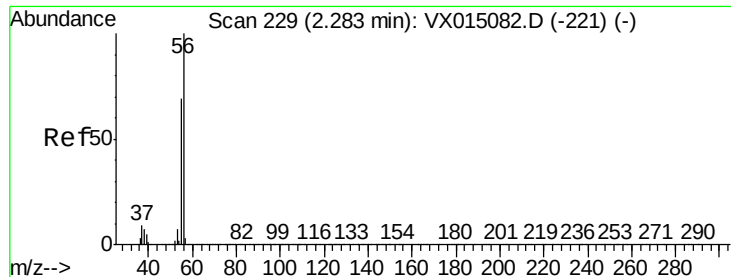
57 23.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

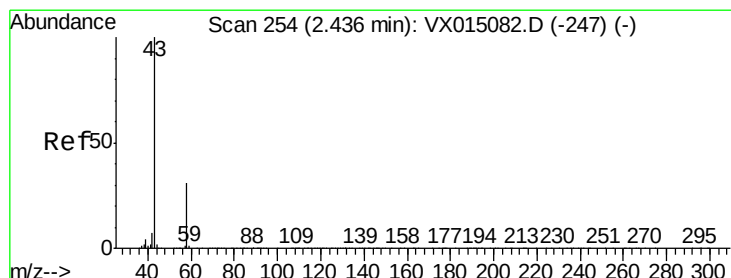
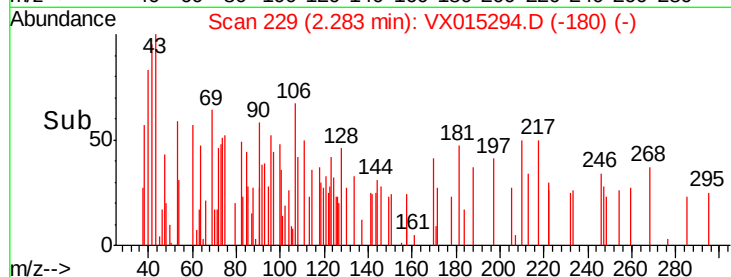
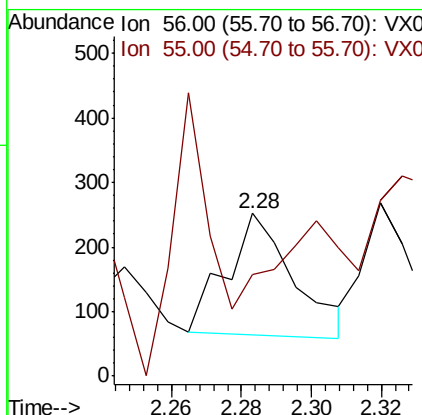
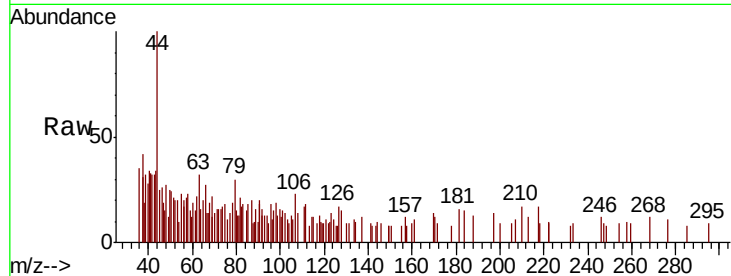




#13
Acrolein
Concen: 0.393 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX015294.D
Acq: 16 Mar 2020 15:12

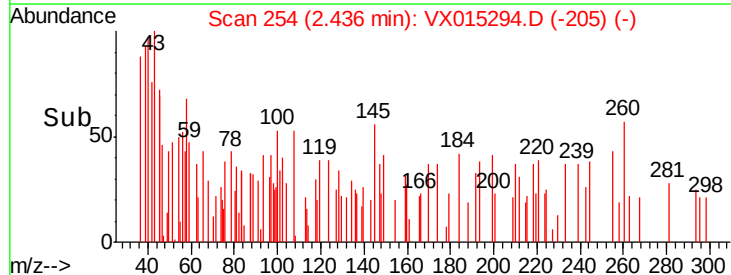
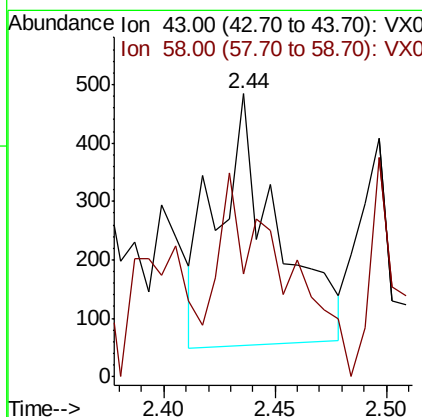
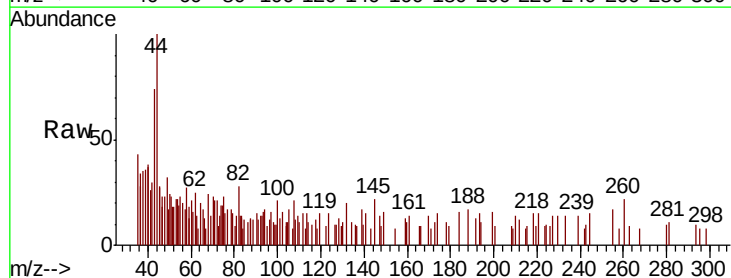
Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20200310

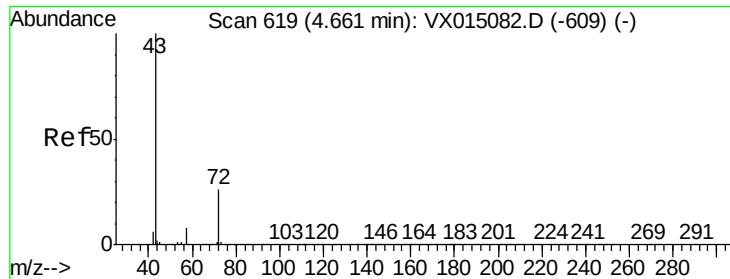
Tot Ion: 56 Resp: 250
Ion Ratio Lower Upper
56 100
55 67.6 55.4 83.0



#16
Acetone
Concen: 0.508 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX015294.D
Acq: 16 Mar 2020 15:12

Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
58 13.0 24.8 37.2#





#25

2-Butanone

Concen: 0.218 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

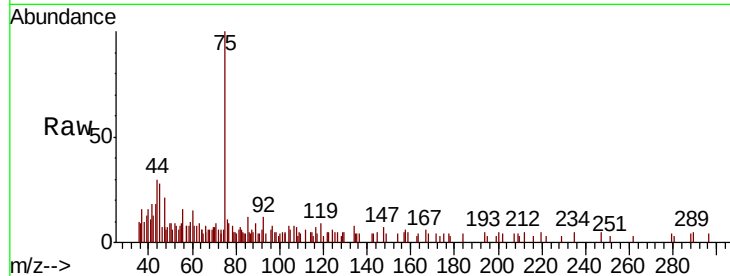
RE103D1-20200310

Tot Ion: 43 Resp: 504

Ion Ratio Lower Upper

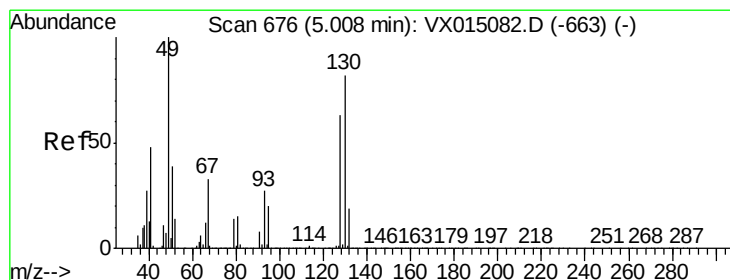
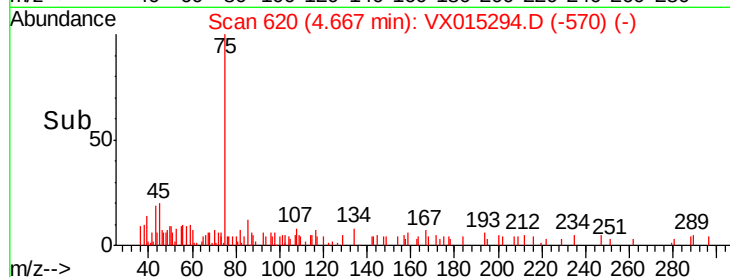
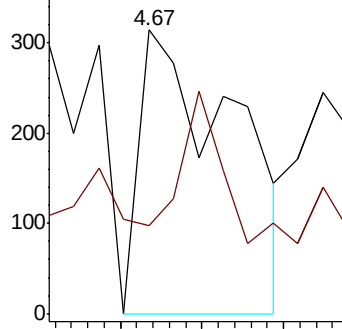
43 100

72 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.249 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

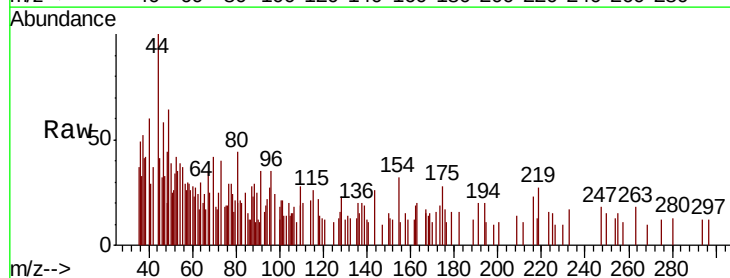
Tgt Ion: 49 Resp: 699

Ion Ratio Lower Upper

49 100

129 48.4 0.0 4.4#

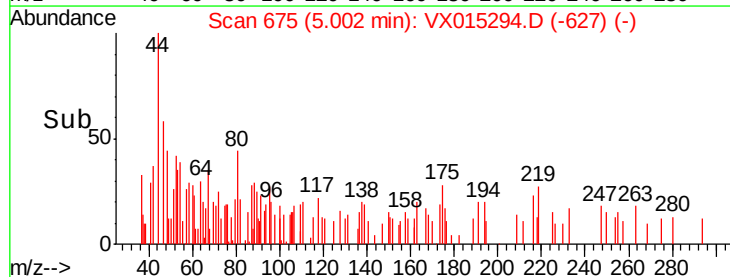
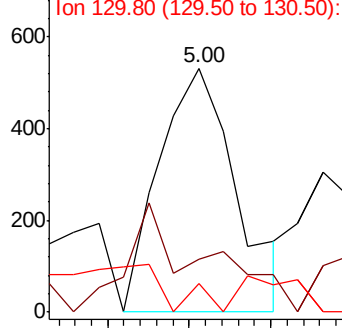
130 0.0 65.0 97.6#

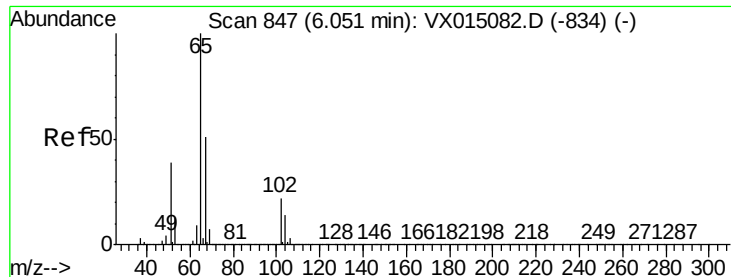


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 47.873 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

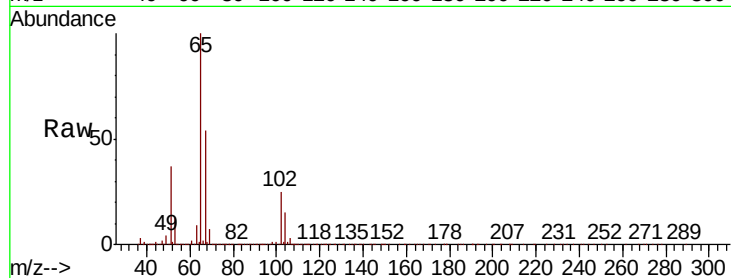
RE103D1-20200310

Tot Ion: 65 Resp: 186960

Ion Ratio Lower Upper

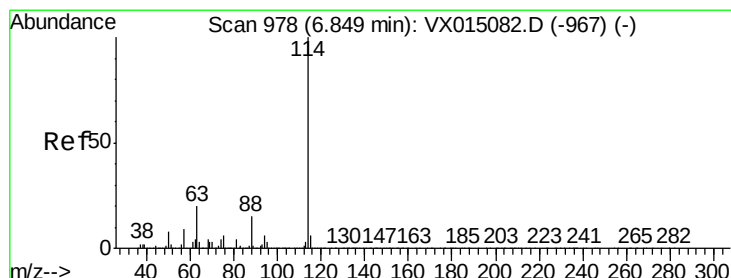
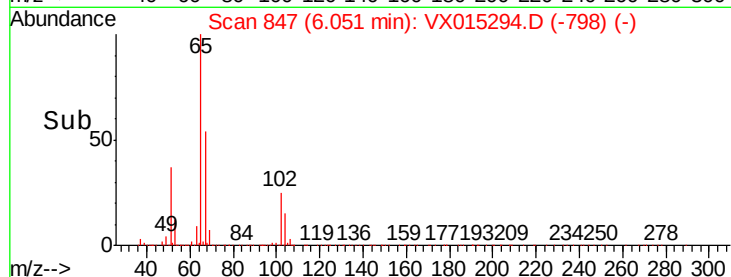
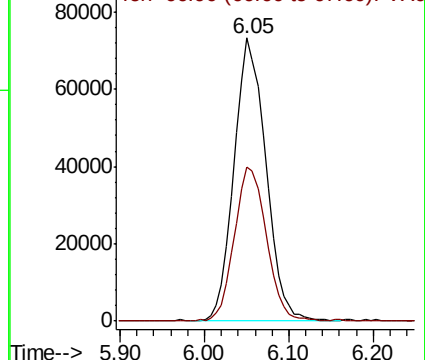
65 100

67 55.2 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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

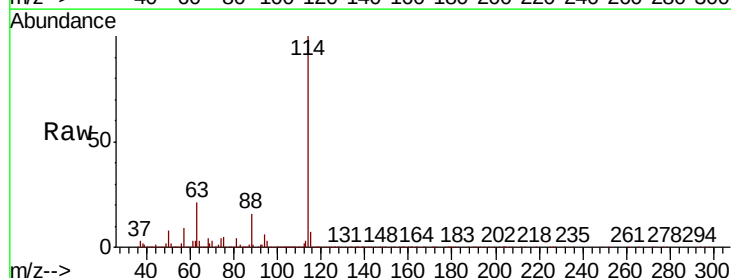
Tgt Ion: 114 Resp: 538345

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.0

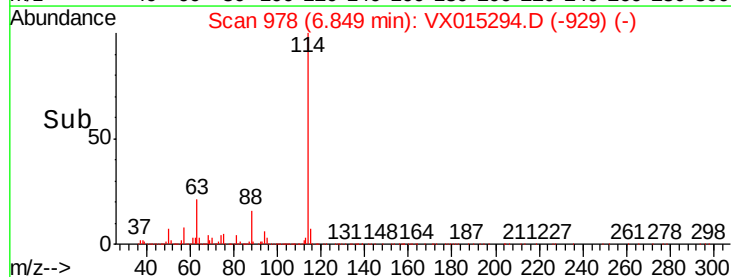
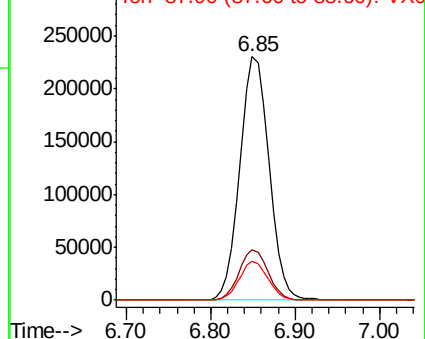
88 16.0 0.0 30.6

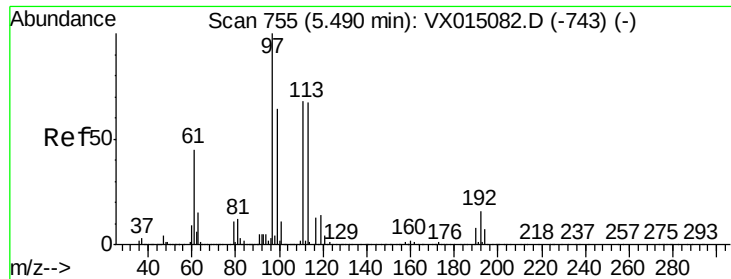


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

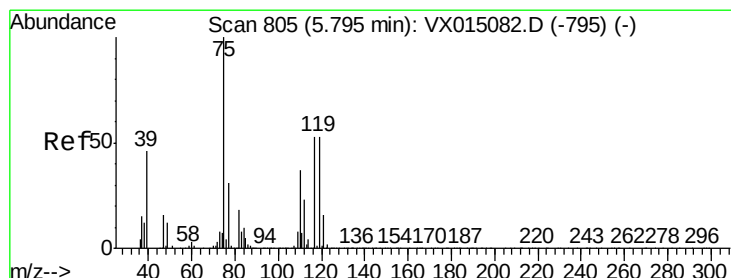
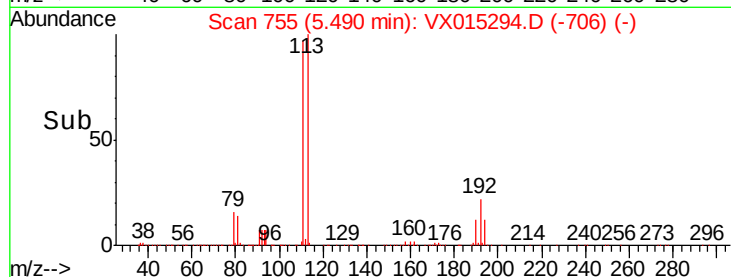
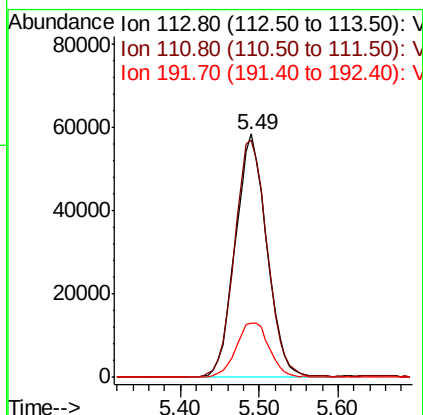
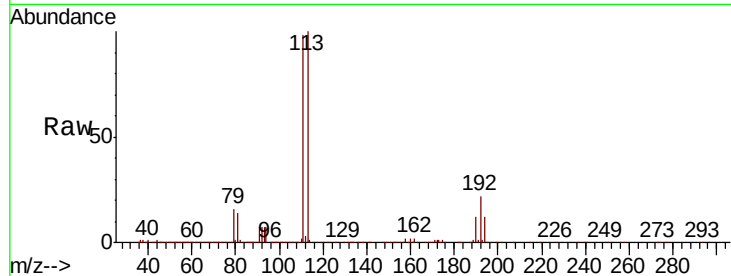




#35
 Dibromofluoromethane
 Concen: 47.854 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX015294.D
 Acq: 16 Mar 2020 15:12

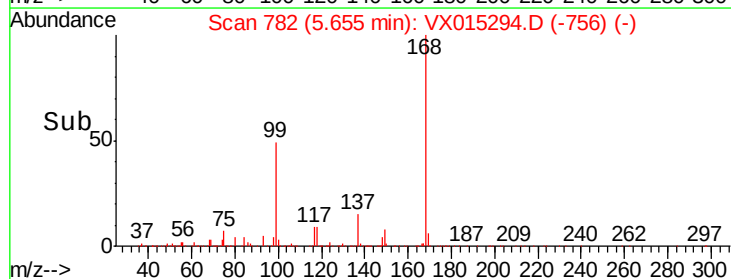
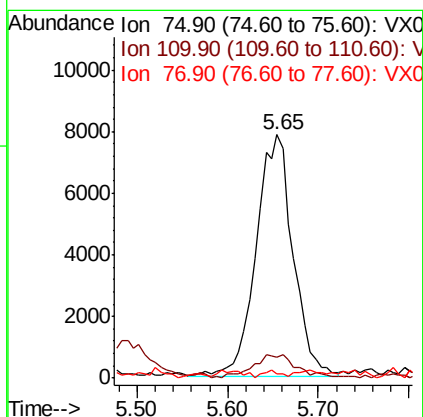
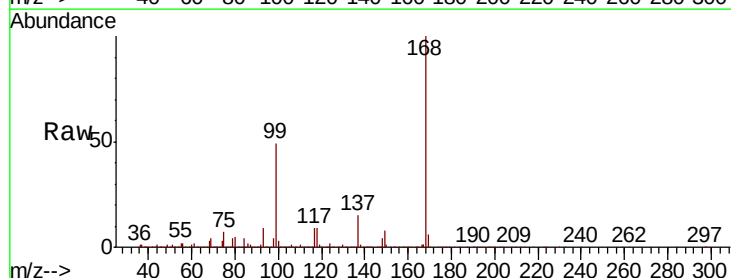
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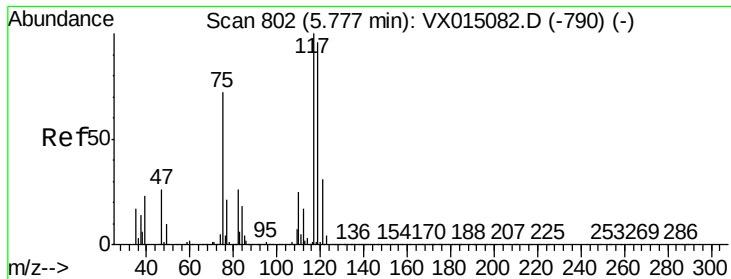
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.6	123.8
192	23.9	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.403 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015294.D
 Acq: 16 Mar 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.7	17.9	53.8#
77	1.5	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.109 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

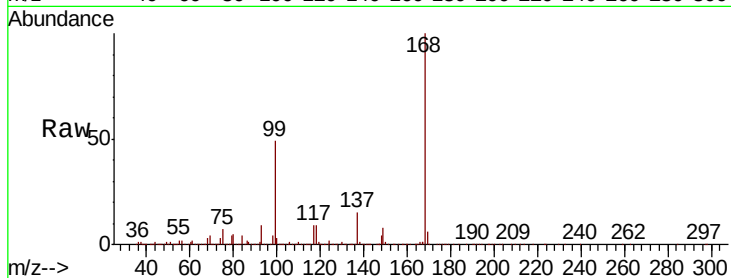
Tot Ion:117 Resp: 28700

Ion Ratio Lower Upper

117 100

119 5.0 76.9 115.3#

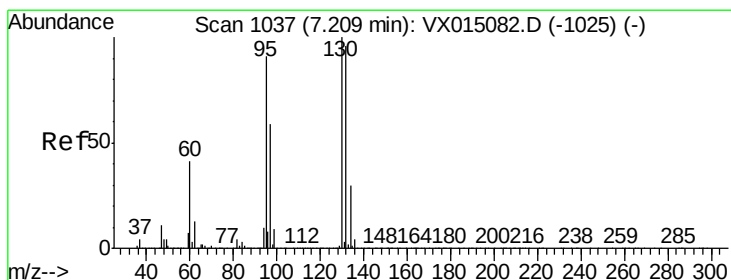
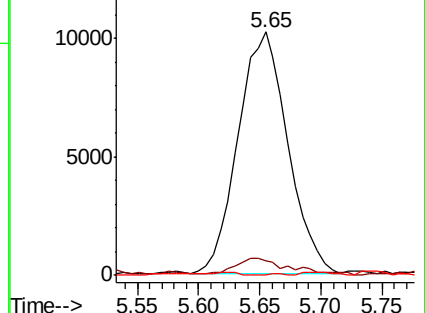
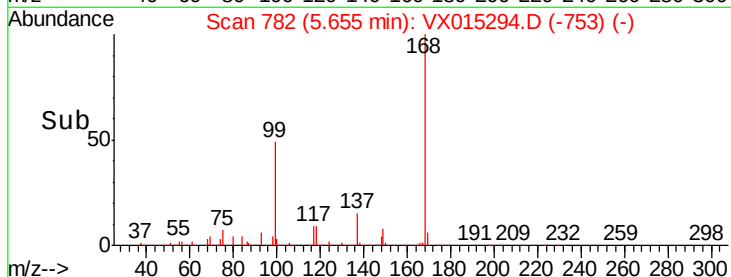
121 0.0 24.6 37.0#



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



#44

Trichloroethene

Concen: 12.161 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015294.D

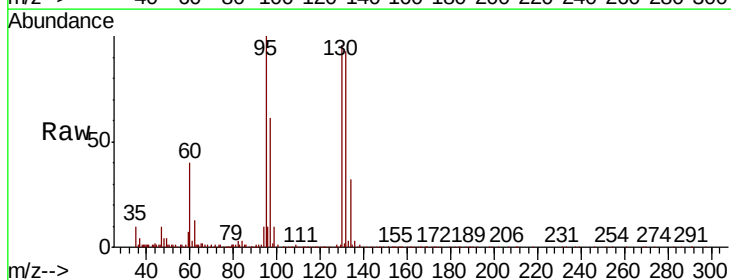
Acq: 16 Mar 2020 15:12

Tgt Ion:130 Resp: 50006

Ion Ratio Lower Upper

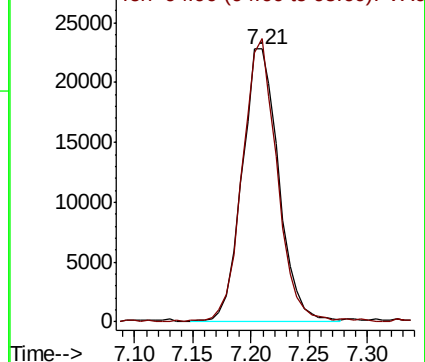
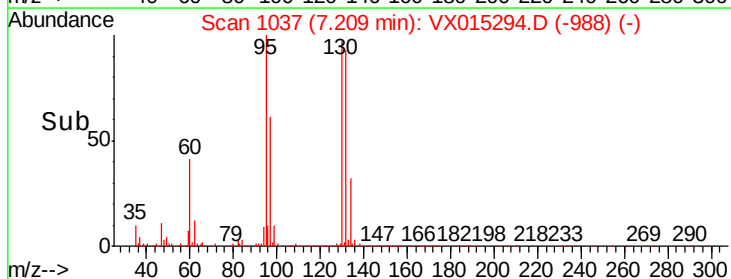
130 100

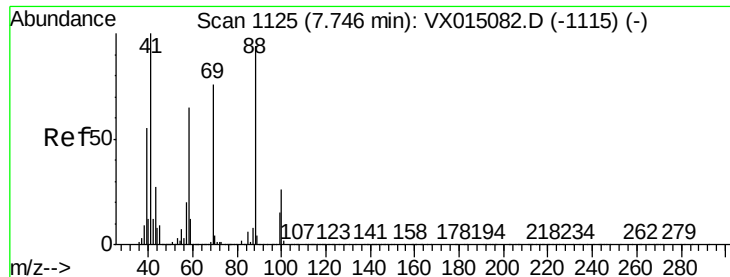
95 103.3 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 10.227 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

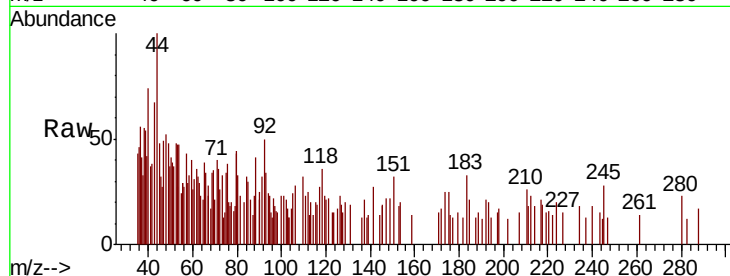
Tot Ion: 88 Resp: 914

Ion Ratio Lower Upper

88 100

43 12.6 27.0 40.4#

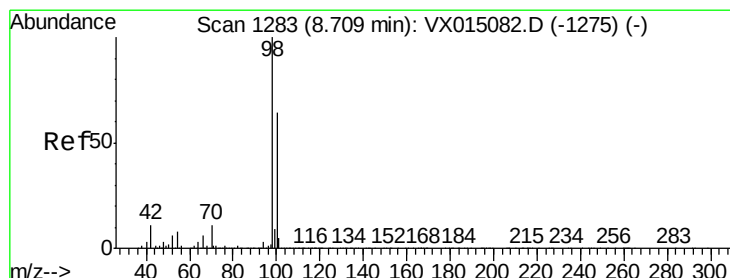
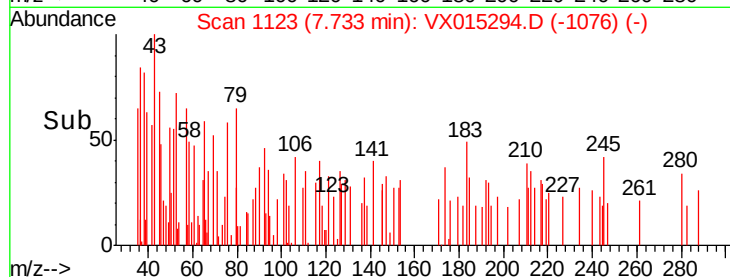
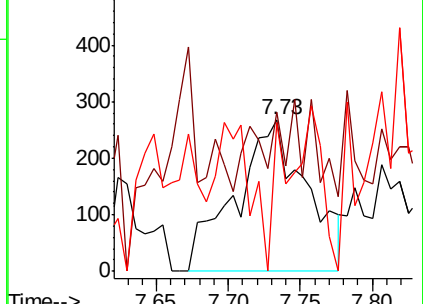
58 0.0 55.6 83.4#



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



#50

Toluene-d8

Concen: 49.502 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015294.D

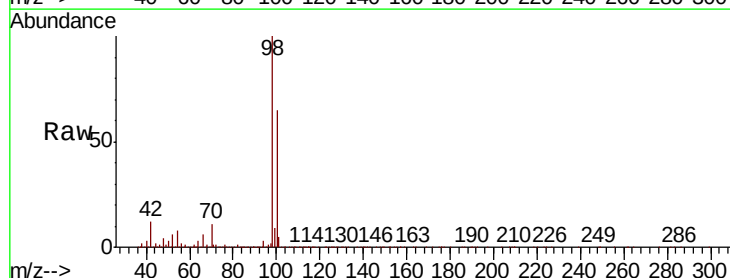
Acq: 16 Mar 2020 15:12

Tgt Ion: 98 Resp: 639507

Ion Ratio Lower Upper

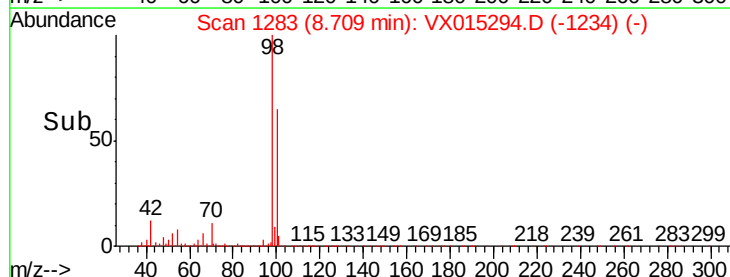
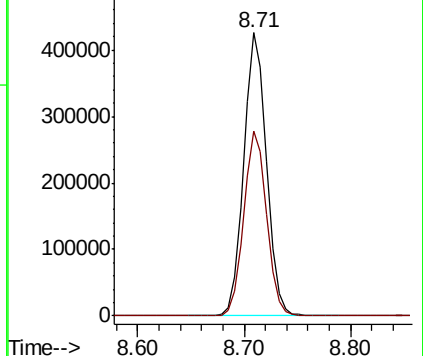
98 100

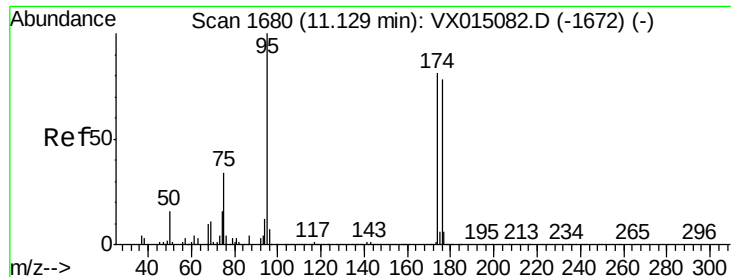
100 65.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.928 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

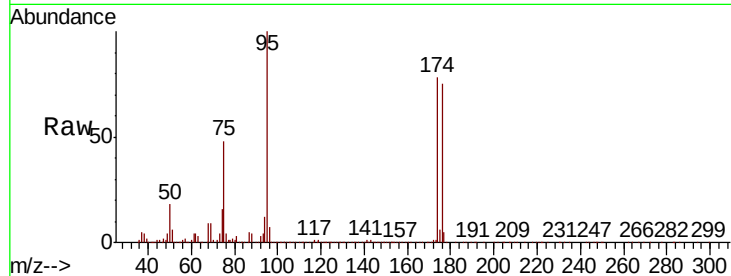
Tot Ion: 95 Resp: 243894

Ion Ratio Lower Upper

95 100

174 88.1 0.0 177.6

176 84.6 0.0 170.2



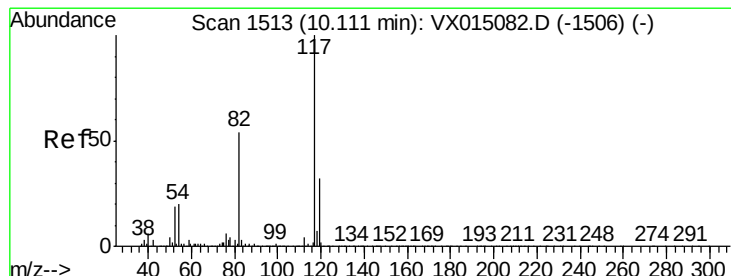
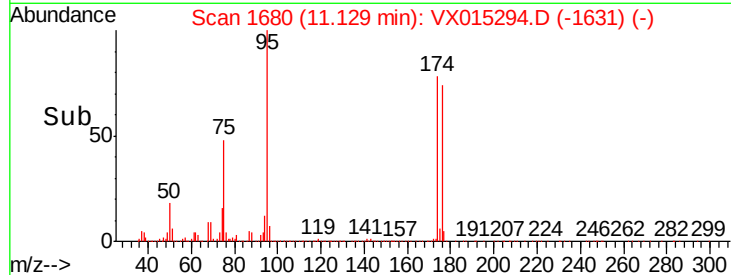
Abundance Ion 94.90 (94.60 to 95.60): VX015082.D (-1672) (-)

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

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

11.13

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

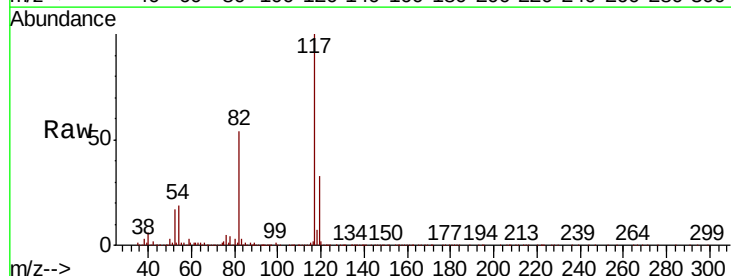
Tgt Ion: 117 Resp: 514176

Ion Ratio Lower Upper

117 100

82 53.5 43.3 64.9

119 33.1 25.8 38.8



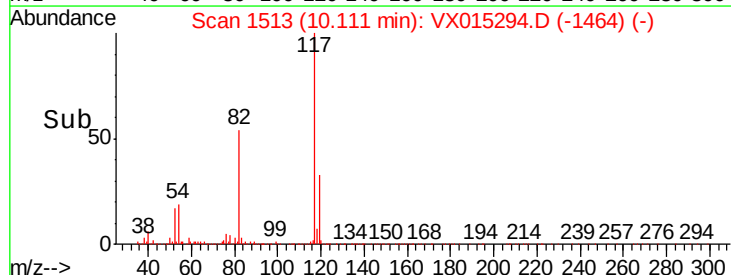
Abundance Ion 116.90 (116.60 to 117.60): VX015082.D (-1506) (-)

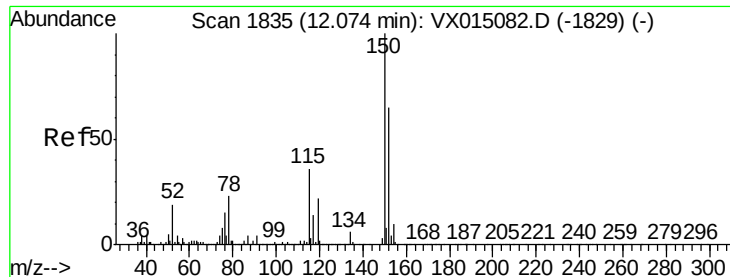
Ion 82.00 (81.70 to 82.70): VX015082.D (-1506) (-)

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

10.11

Time-->

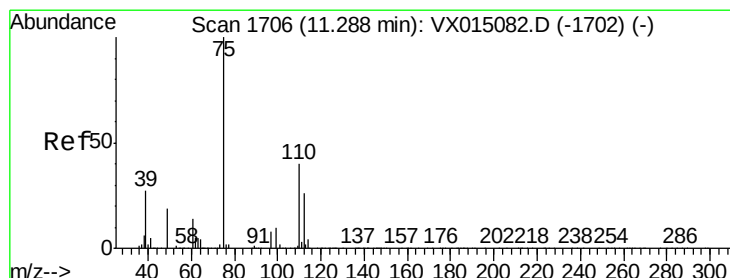
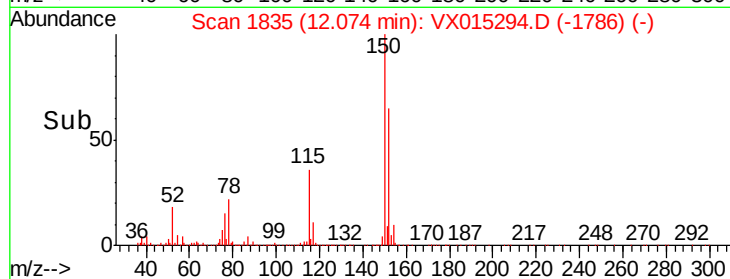
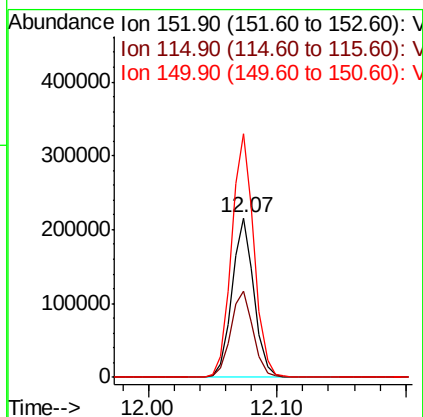
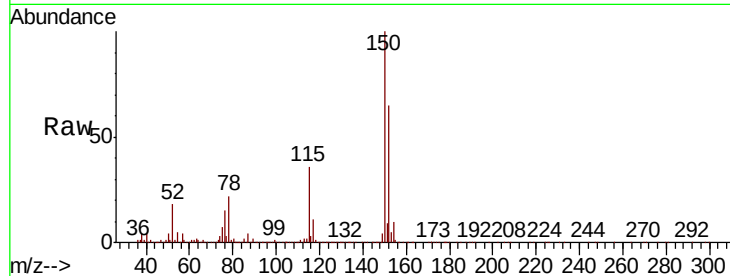




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX015294.D
 Acq: 16 Mar 2020 15:12

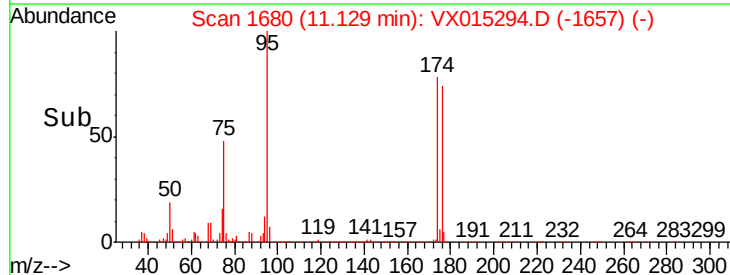
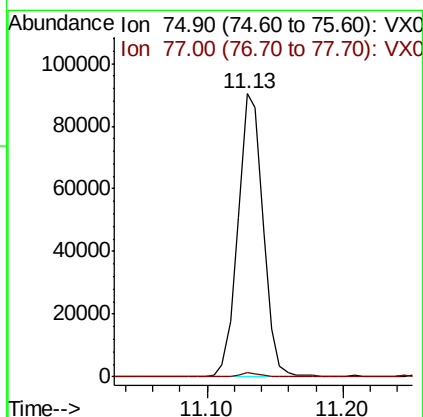
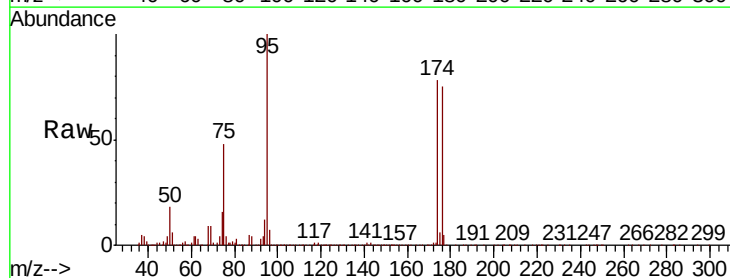
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310

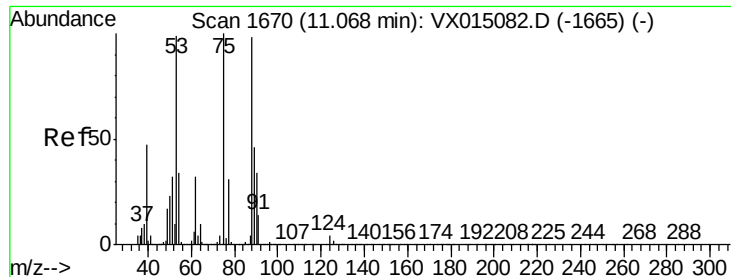
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	38.2	114.6
150	156.2	0.0	343.8



#76
 1,2,3-Trichloropropane
 Concen: 22.675 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015294.D
 Acq: 16 Mar 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	22.6	67.8





#81

trans-1,4-Dichloro-2-butene

Concen: 64.352 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310

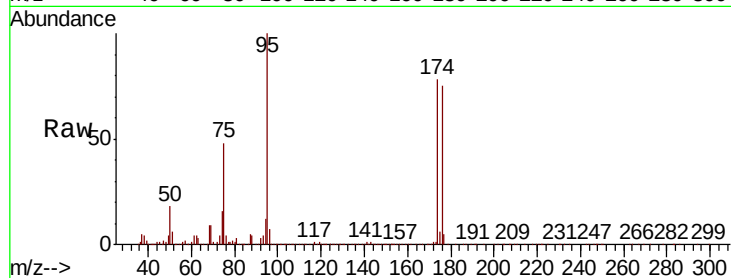
Tot Ion: 75 Resp: 115908

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

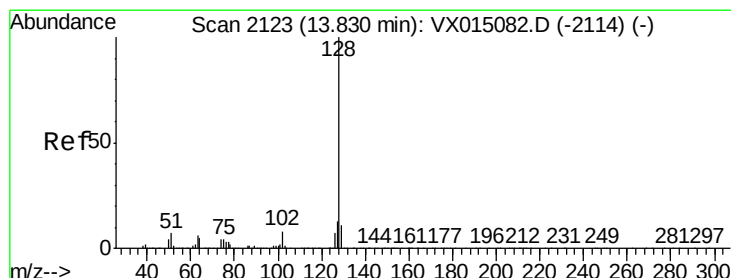
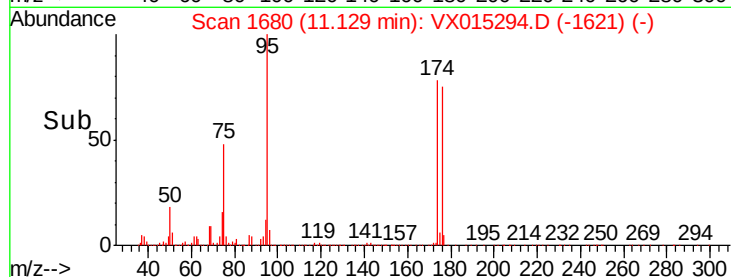
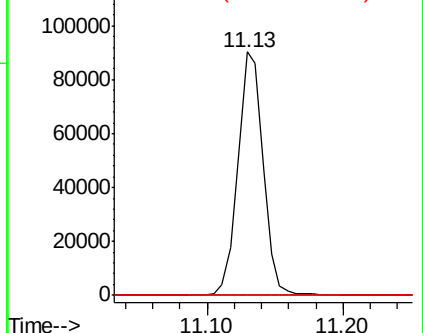
89 0.0 36.2 54.2#



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: 1.461 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015294.D

Acq: 16 Mar 2020 15:12

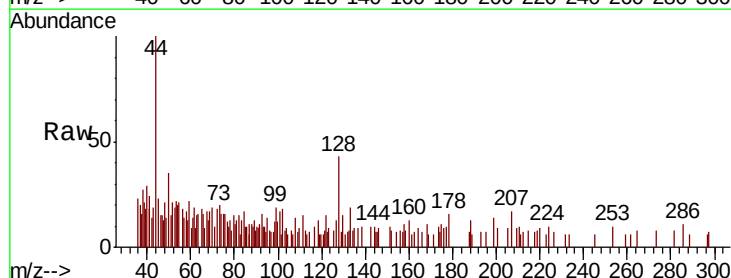
Tgt Ion:128 Resp: 725

Ion Ratio Lower Upper

128 100

127 24.4 10.3 15.5#

129 34.9 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

