

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015268.D
 Acq On : 13 Mar 2020 18:21
 Operator : JC/SP
 Sample : L1903-14DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20200309DL

Quant Time: Mar 16 08:23:50 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	244192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	388397	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	376859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	193107	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	138869	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
35) Dibromofluoromethane	5.49	113	119028	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	8.71	98	473046	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.13	95	174257	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	

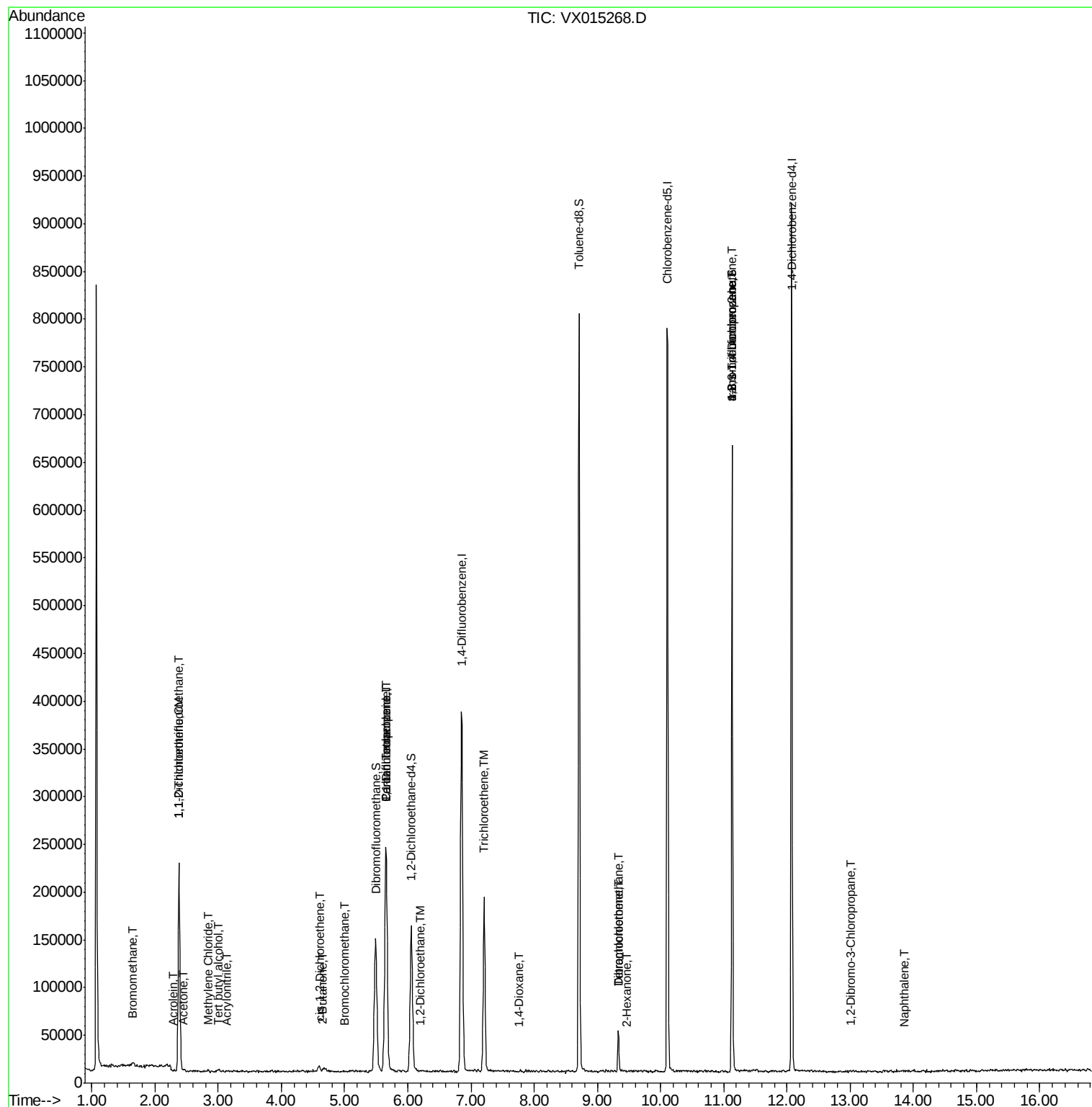
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	568	0.301	ug/l #	34
9) 1,1,2-Trichlorotrifluoroet	2.38	101	86665	37.692	ug/l	98
11) Tert butyl alcohol	3.01	59	1474	2.933	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	1085	0.457	ug/l #	60
13) Acrolein	2.29	56	480	1.016	ug/l #	57
15) Acrylonitrile	3.13	53	462	0.369	ug/l #	53
16) Acetone	2.44	43	1217	1.037	ug/l #	26
20) Methylene Chloride	2.84	84	1170	0.426	ug/l #	66
25) 2-Butanone	4.65	43	354	0.206	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	3908	1.375	ug/l	80
28) Bromochloromethane	5.00	49	681	0.327	ug/l #	7
36) 1,1-Dichloropropene	5.65	75	15784	4.396	ug/l #	55
38) Carbon Tetrachloride	5.66	117	22011	6.494	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	998	0.273	ug/l	75
44) Trichloroethene	7.21	130	73268	24.697	ug/l	96
49) 1,4-Dioxane	7.76	88	545	8.453	ug/l #	52
59) 2-Hexanone	9.47	43	535	0.208	ug/l	76
60) Dibromochloromethane	9.33	129	7690	2.731	ug/l #	11
64) Tetrachloroethene	9.33	164	9116	2.926	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	84848	22.028	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84848	62.514	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.00	75	172	0.209	ug/l #	23
95) Naphthalene	13.85	128	447	1.454	ug/l #	79

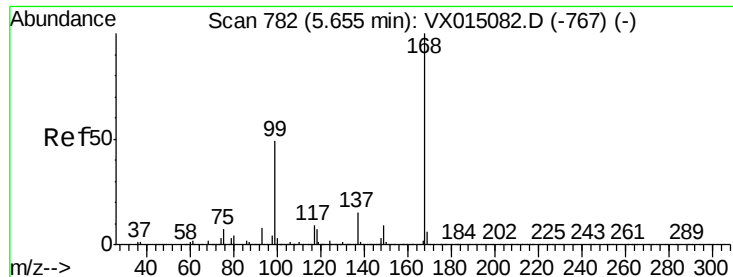
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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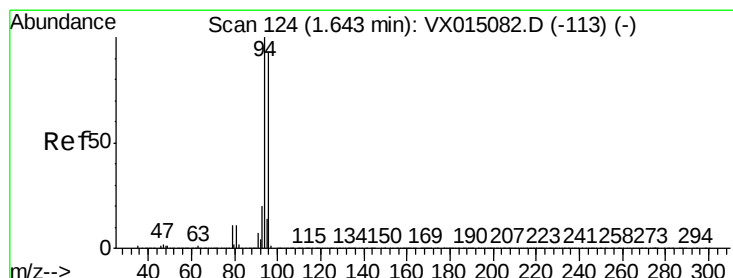
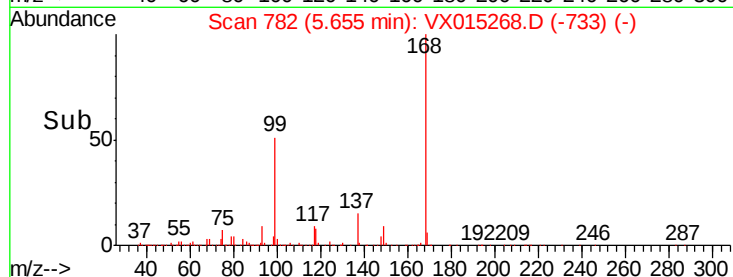
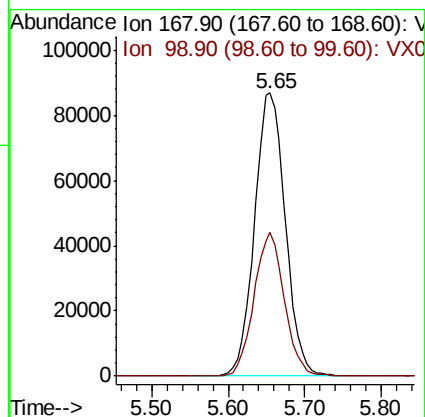
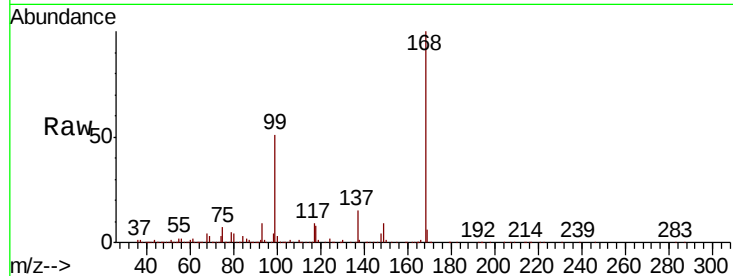


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20200309DL

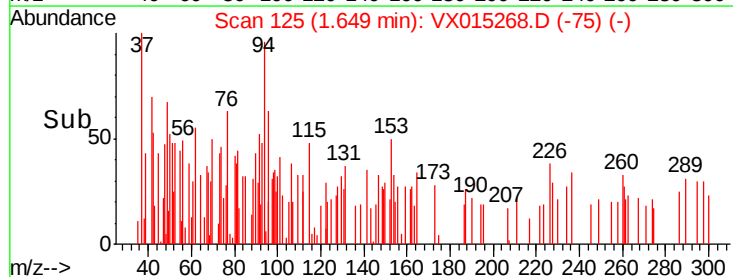
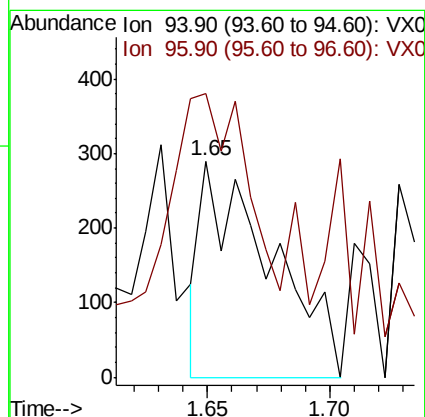
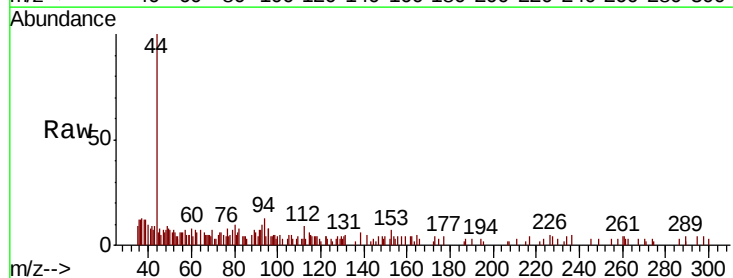
Tot Ion:168 Resp: 244192
 Ion Ratio Lower Upper
 168 100
 99 50.8 39.4 59.2

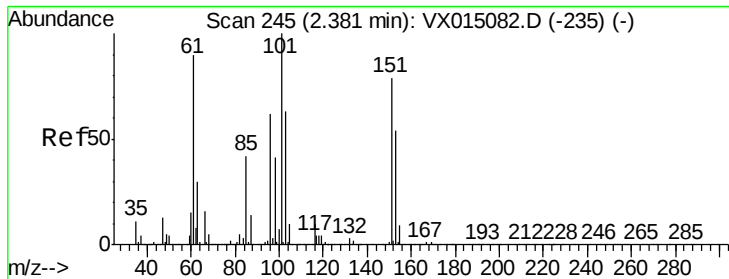


#5

Bromomethane
 Concen: 0.301 ug/l
 RT: 1.65 min Scan# 125
 Delta R.T. 0.01 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Tgt Ion: 94 Resp: 568
 Ion Ratio Lower Upper
 94 100
 96 30.0 74.6 111.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 37.692 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

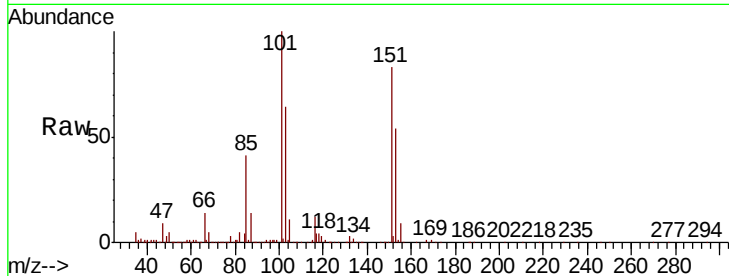
Tot Ion:101 Resp: 86665

Ion Ratio Lower Upper

101 100

85 42.8 33.7 50.5

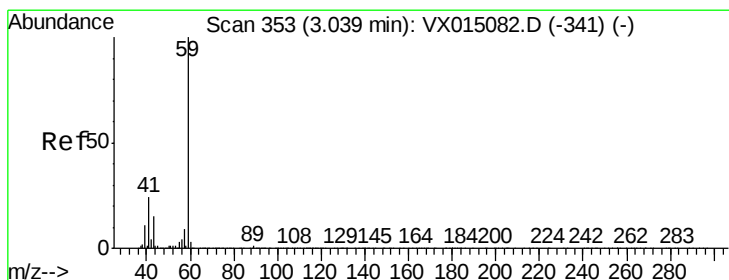
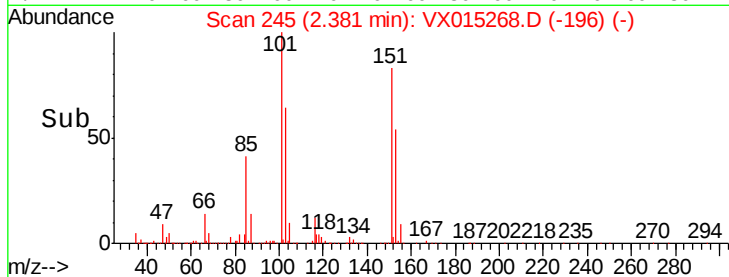
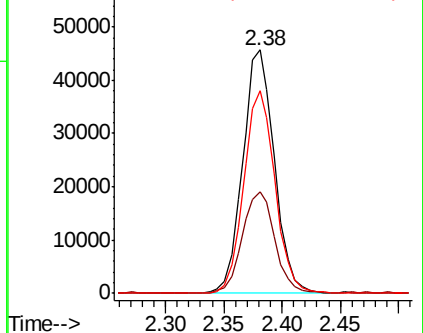
151 82.4 64.0 96.0



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: 2.933 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX015268.D

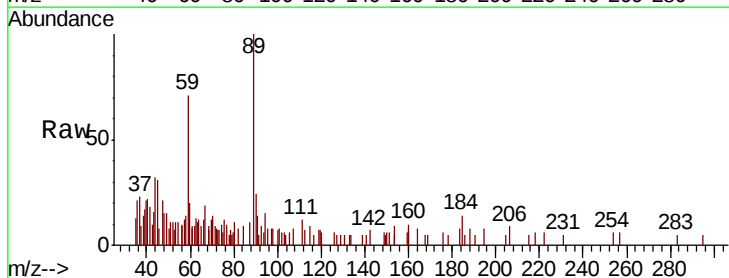
Acq: 13 Mar 2020 18:21

Tgt Ion: 59 Resp: 1474

Ion Ratio Lower Upper

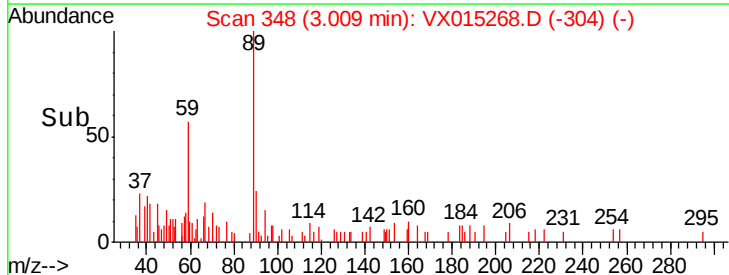
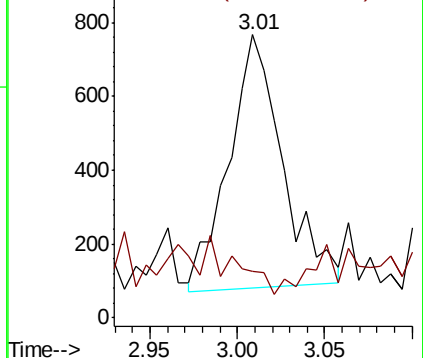
59 100

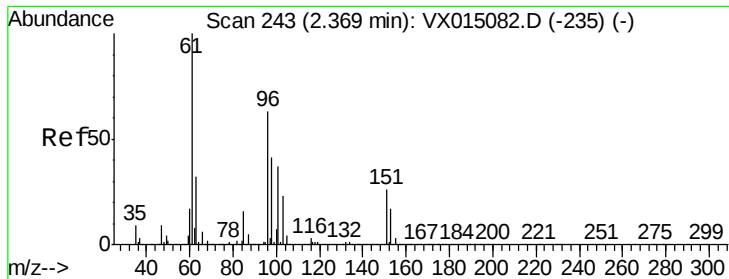
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

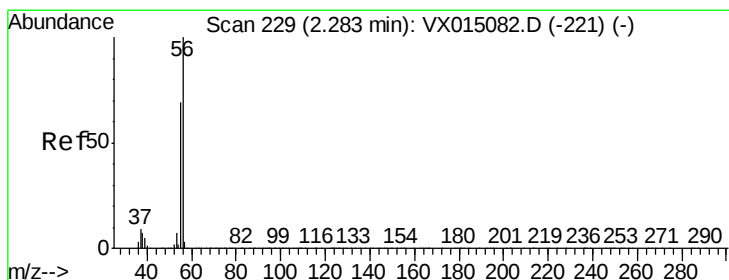
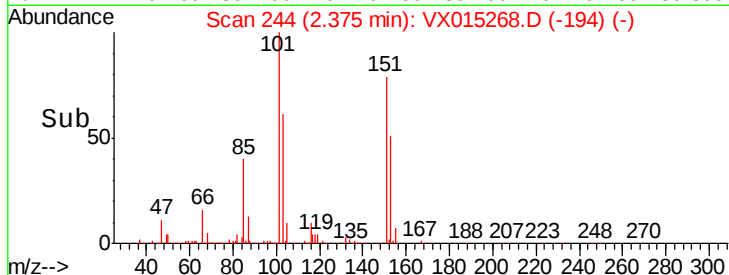
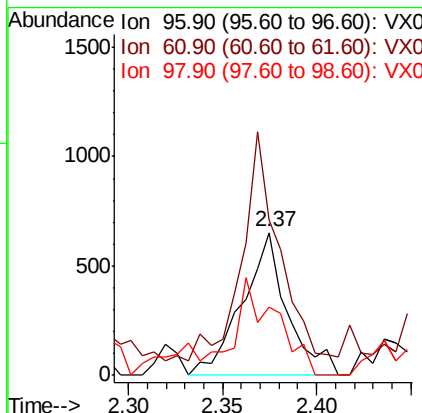
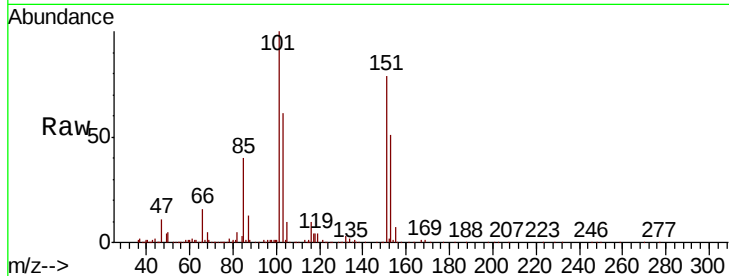




#12
 1,1-Dichloroethene
 Concen: 0.457 ug/l
 RT: 2.37 min Scan# 244
 Delta R.T. 0.01 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

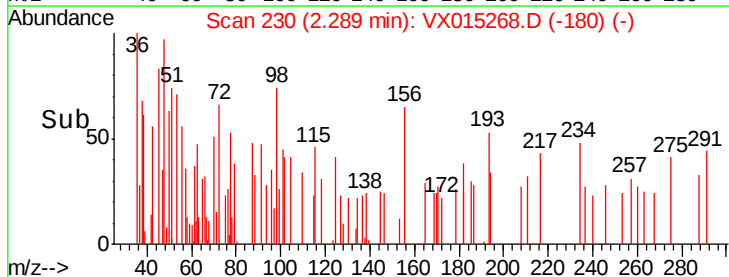
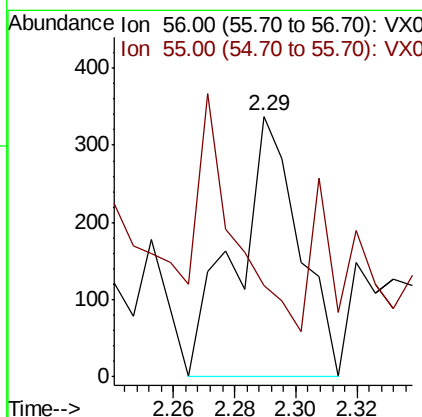
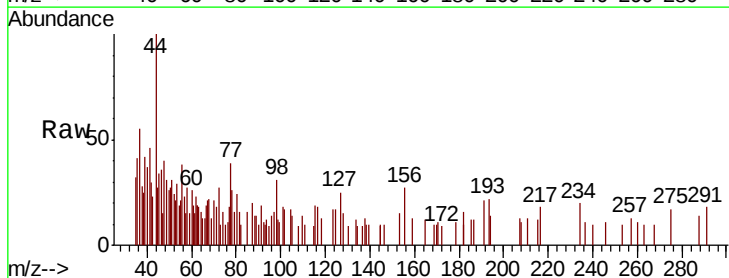
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20200309DL

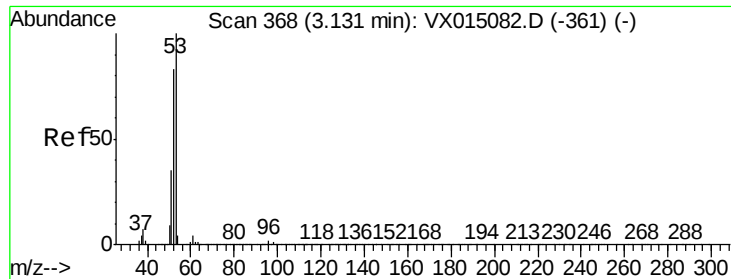
Tot Ion: 96 Resp: 1085
 Ion Ratio Lower Upper
 96 100
 61 95.7 126.2 189.4#
 98 47.4 51.4 77.0#



#13
 Acrolein
 Concen: 1.016 ug/l
 RT: 2.29 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Tgt Ion: 56 Resp: 480
 Ion Ratio Lower Upper
 56 100
 55 33.8 55.4 83.0#





#15

Acrylonitrile

Concen: 0.369 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

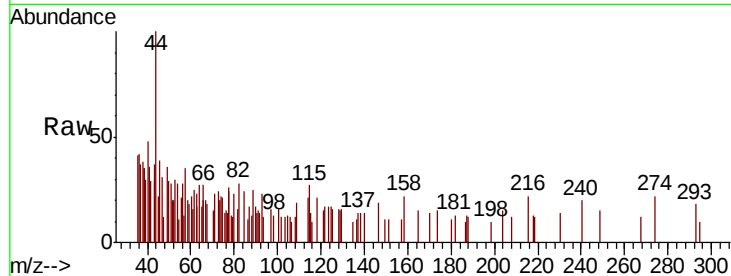
Tot Ion: 53 Resp: 462

Ion Ratio Lower Upper

53 100

52 35.1 66.6 100.0#

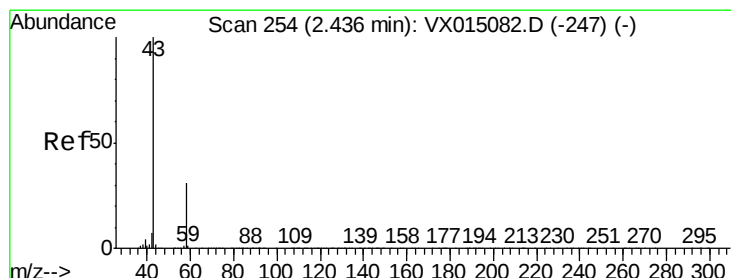
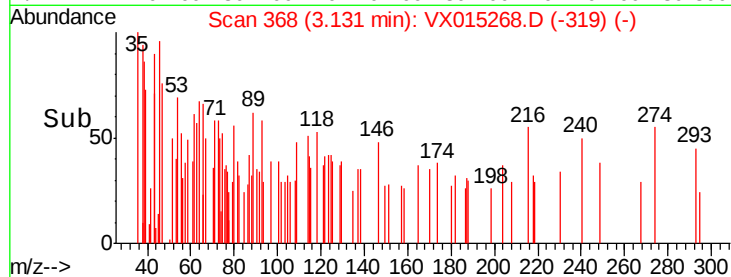
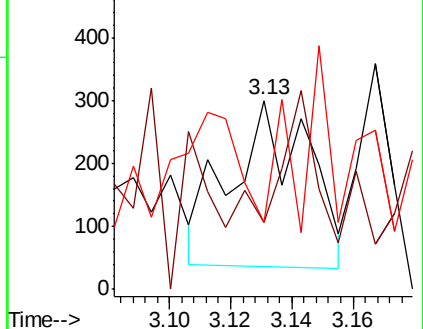
51 17.1 29.0 43.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.037 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015268.D

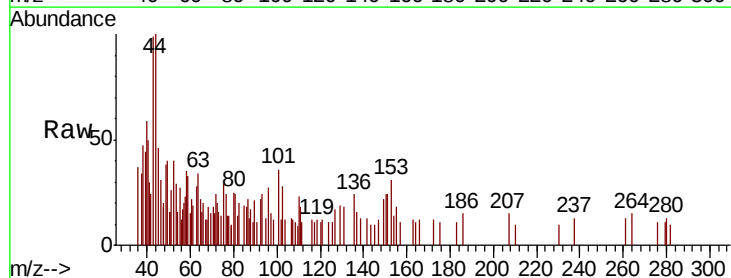
Acq: 13 Mar 2020 18:21

Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

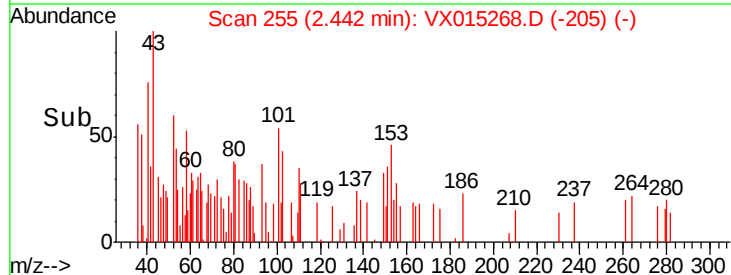
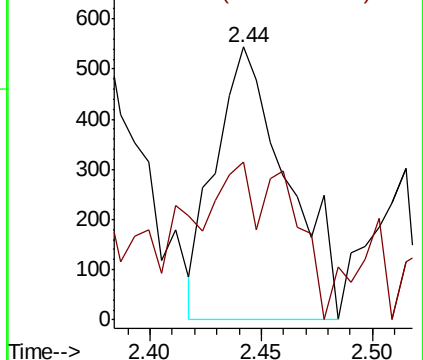
43 100

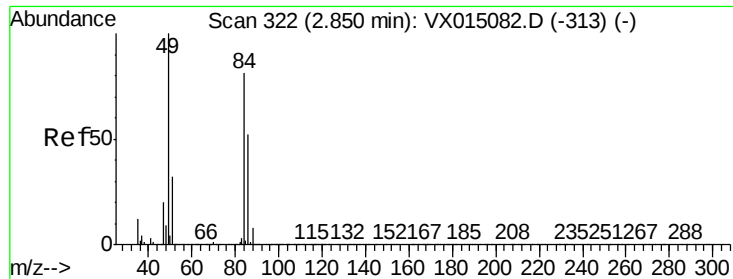
58 71.9 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

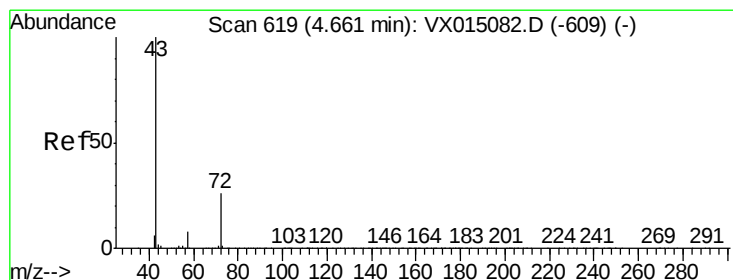
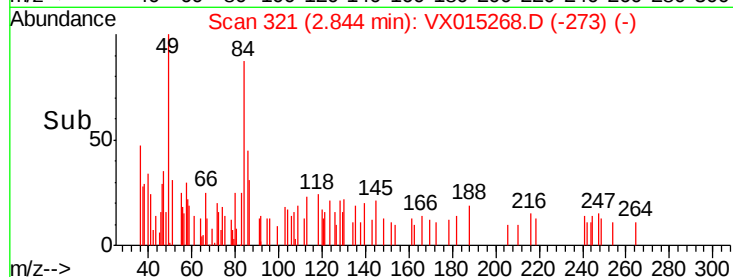
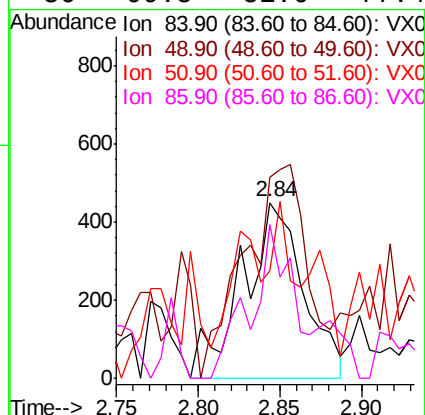
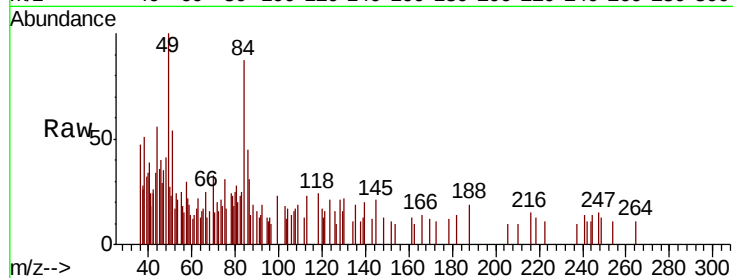




#20
Methvlene Chloride
Concen: 0.426 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015268.D
Acq: 13 Mar 2020 18:21

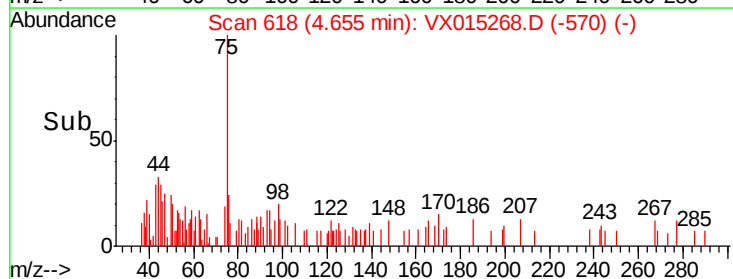
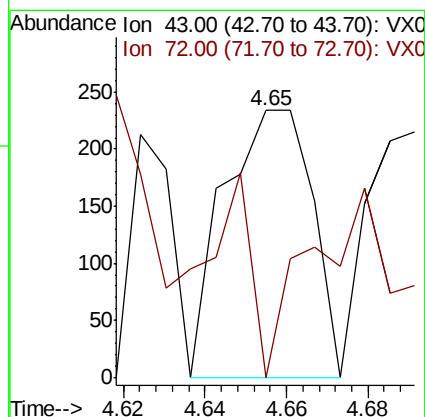
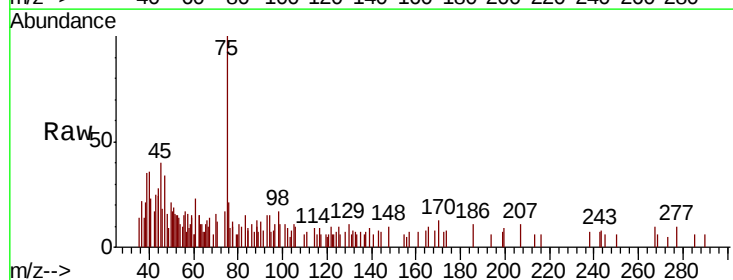
Instrument :
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ClientSampleId :
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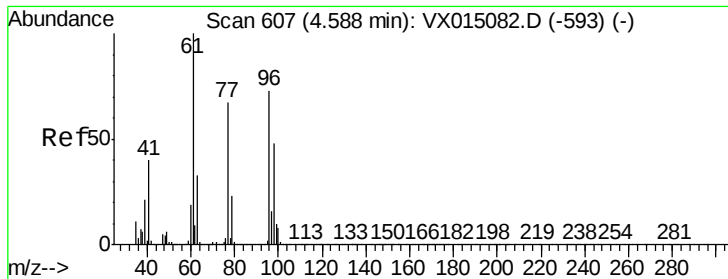
Tot Ion: 84 Resp: 1170
Ion Ratio Lower Upper
84 100
49 88.8 99.4 149.2#
51 55.8 31.5 47.3#
86 99.5 51.6 77.4#



#25
2-Butanone
Concen: 0.206 ug/l
RT: 4.65 min Scan# 618
Delta R.T. -0.01 min
Lab File: VX015268.D
Acq: 13 Mar 2020 18:21

Tgt Ion: 43 Resp: 354
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



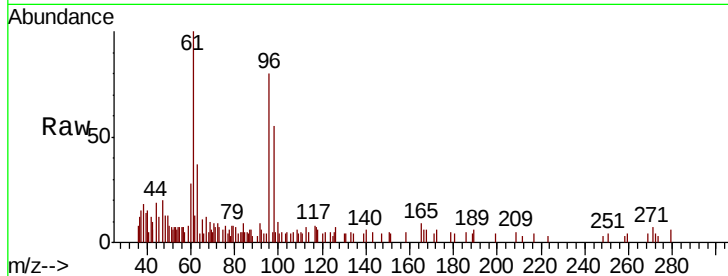


#27

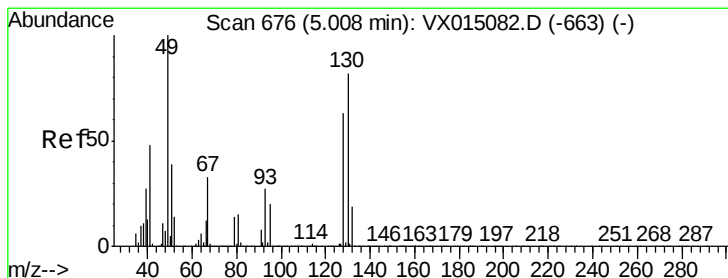
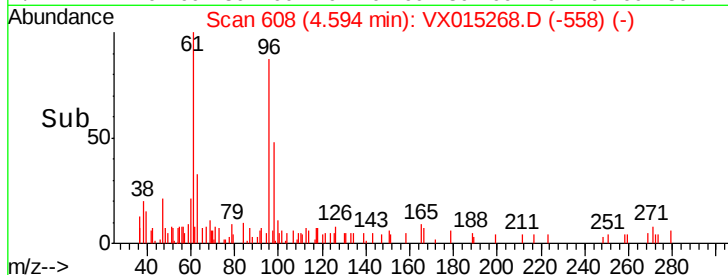
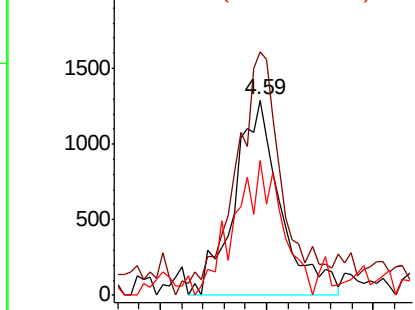
cis-1,2-Dichloroethene
 Concen: 1.375 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20200309DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.3	0.0	286.8
98	33.3	0.0	128.4



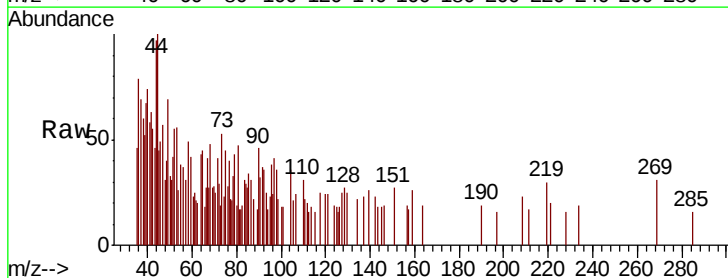
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



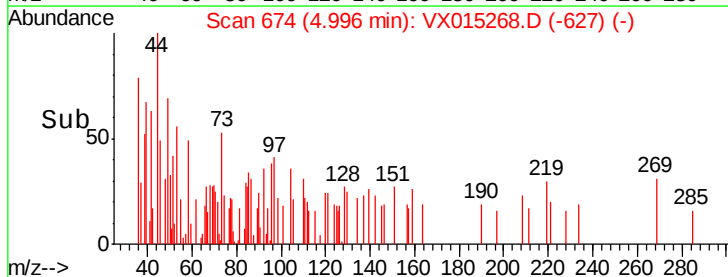
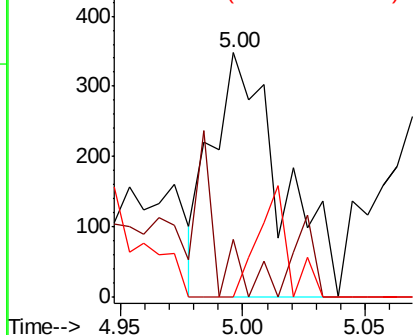
#28

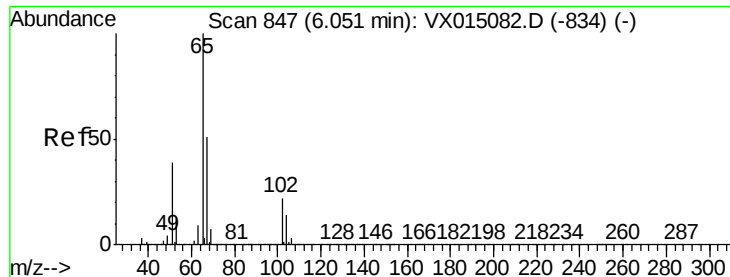
Bromochloromethane
 Concen: 0.327 ug/l
 RT: 5.00 min Scan# 674
 Delta R.T. -0.01 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	58.7	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: 47.935 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

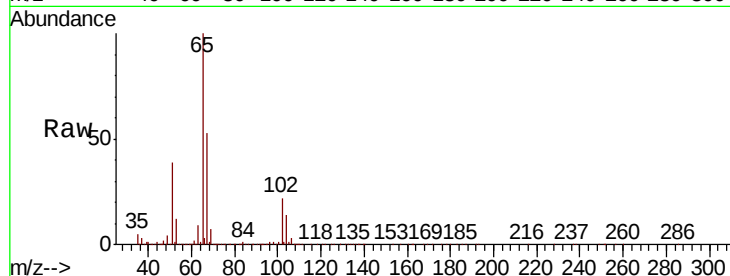
RE131D2-20200309DL

Tot Ion: 65 Resp: 138869

Ion Ratio Lower Upper

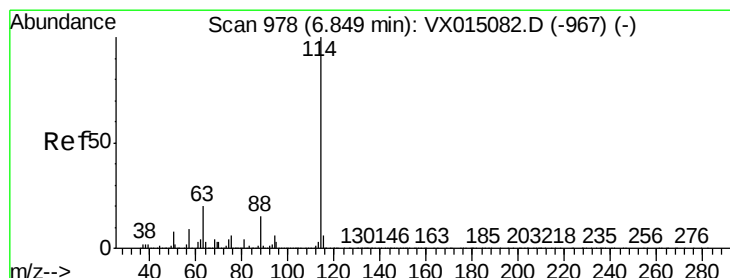
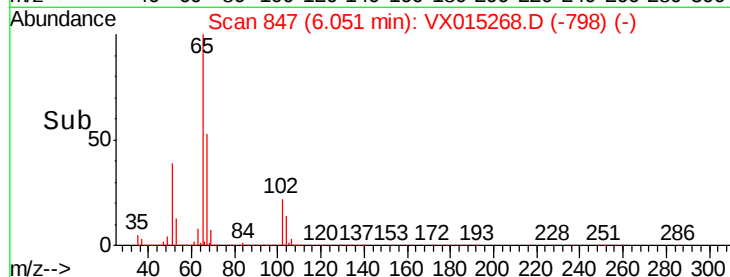
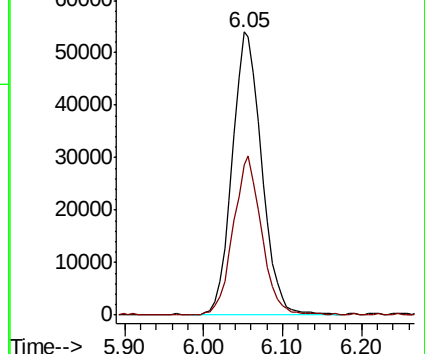
65 100

67 54.1 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: VX015268.D

Acq: 13 Mar 2020 18:21

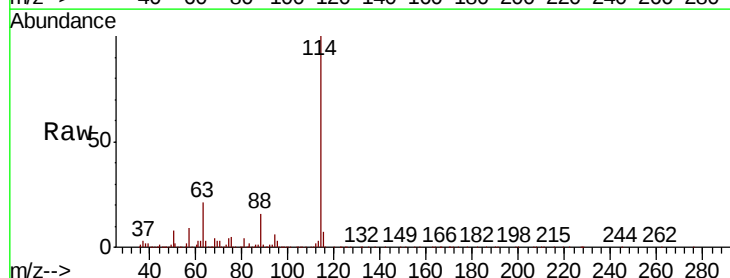
Tgt Ion: 114 Resp: 388397

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.0

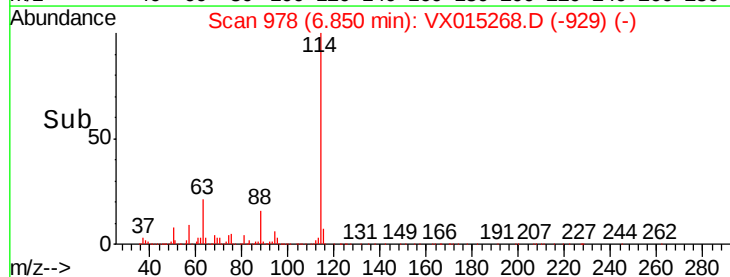
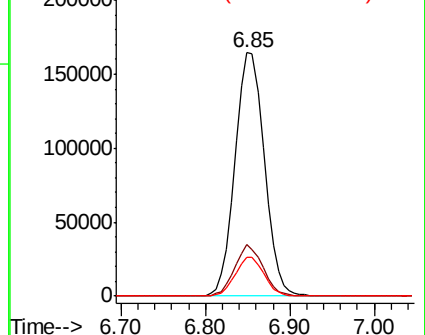
88 16.0 0.0 30.6

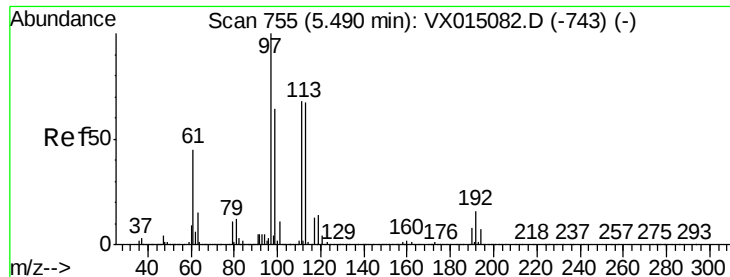


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.577 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

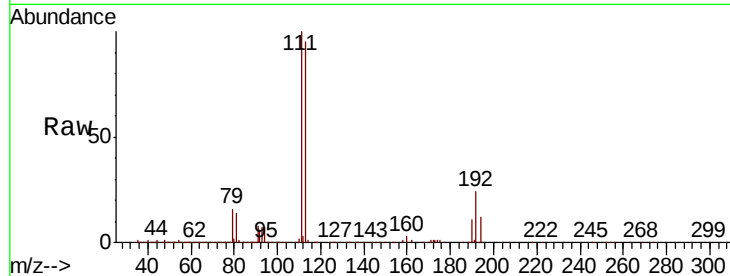
Tot Ion:113 Resp: 119028

Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

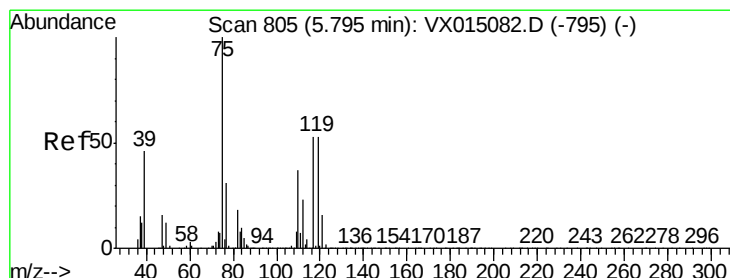
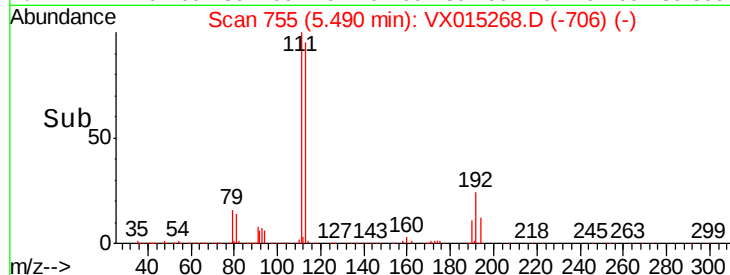
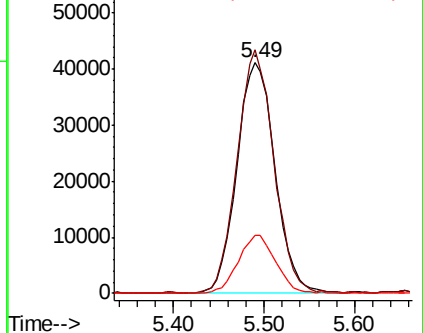
192 25.0 18.6 28.0



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: 4.396 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

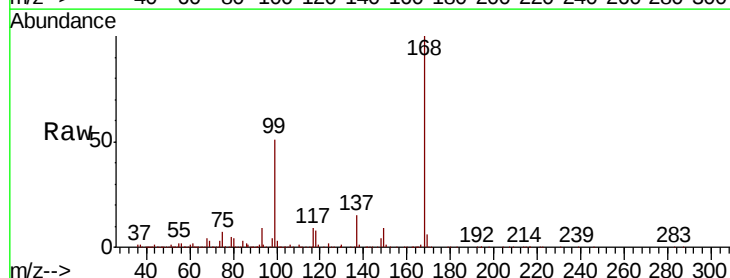
Tgt Ion: 75 Resp: 15784

Ion Ratio Lower Upper

75 100

110 13.1 17.9 53.8#

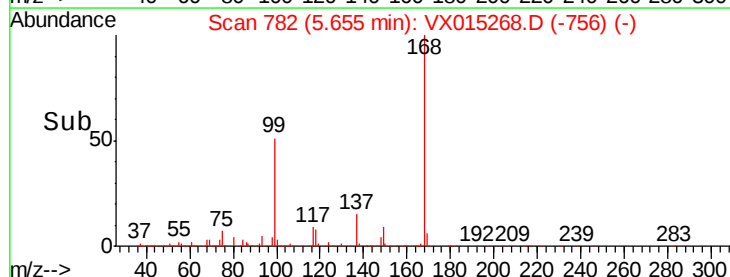
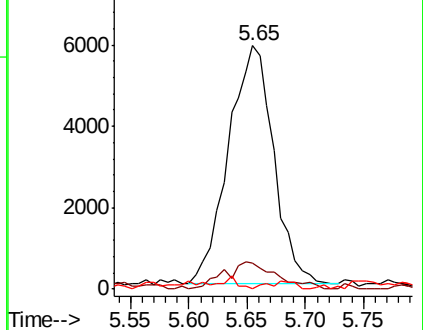
77 1.8 24.8 37.2#

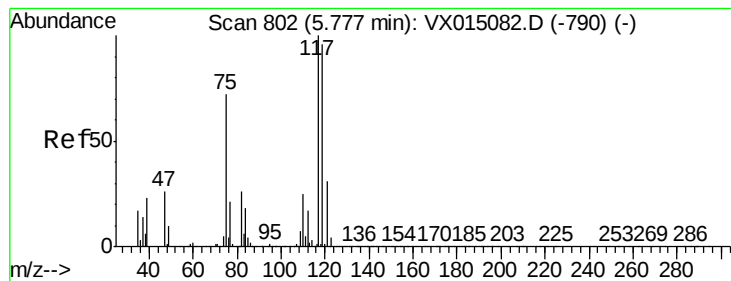


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.494 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

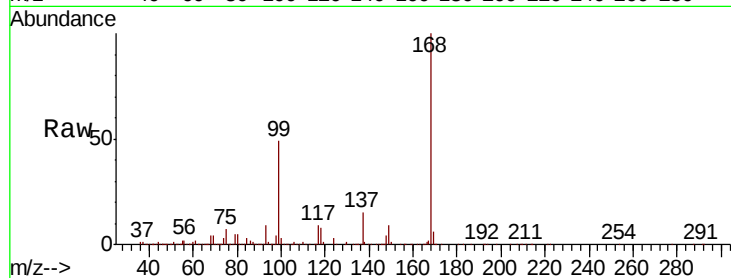
Tot Ion:117 Resp: 22011

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

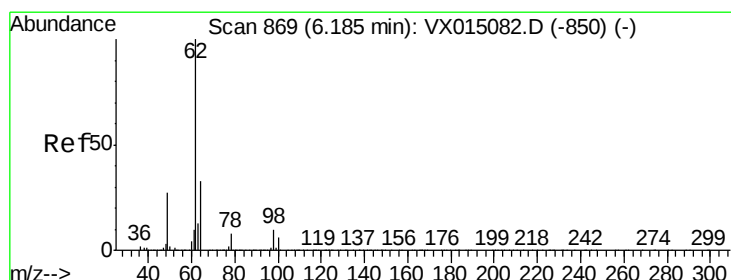
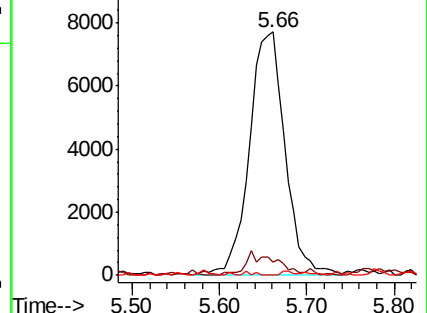
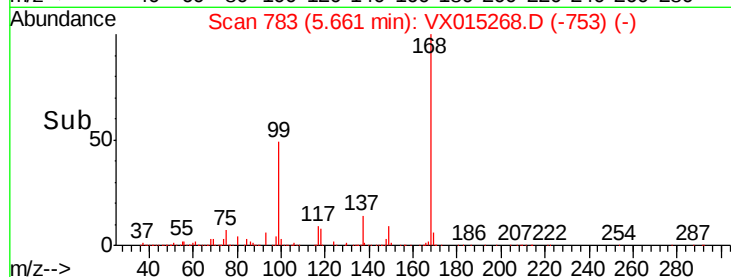
121 0.0 24.6 37.0#



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: 0.273 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX015268.D

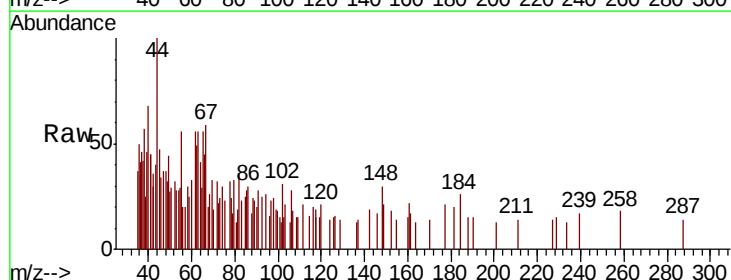
Acq: 13 Mar 2020 18:21

Tgt Ion: 62 Resp: 998

Ion Ratio Lower Upper

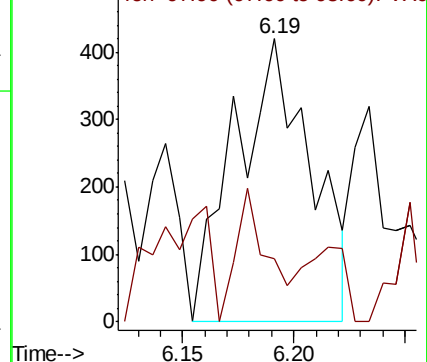
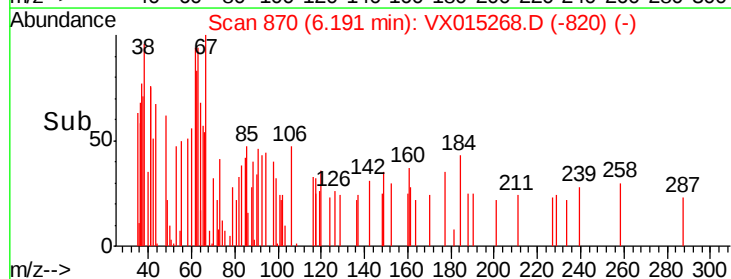
62 100

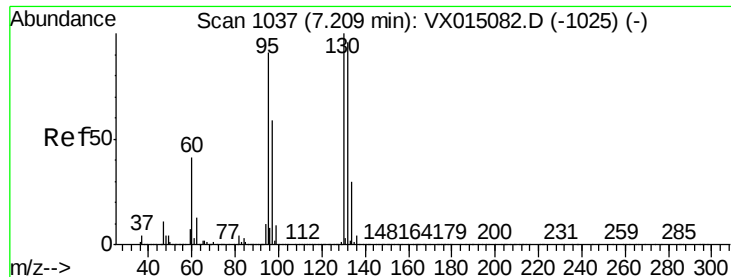
98 19.5 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 24.697 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

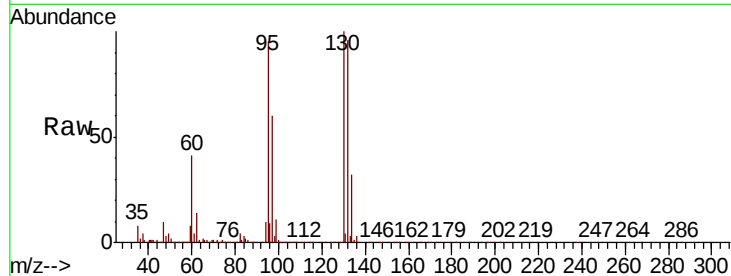
RE131D2-20200309DL

Tot Ion:130 Resp: 73268

Ion Ratio Lower Upper

130 100

95 94.5 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

40000

30000

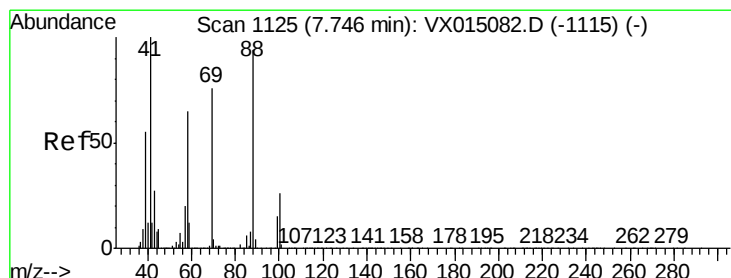
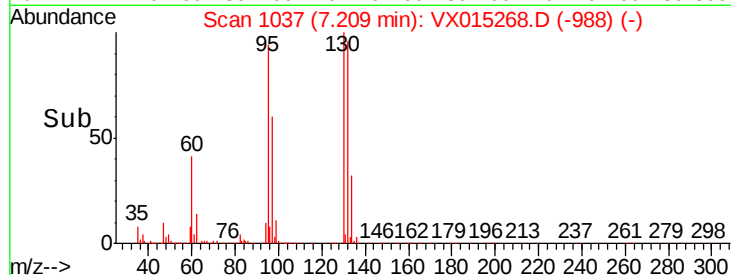
20000

10000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: 8.453 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

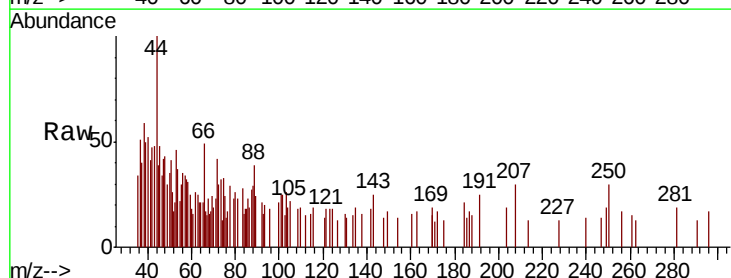
Tgt Ion: 88 Resp: 545

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 35.2 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

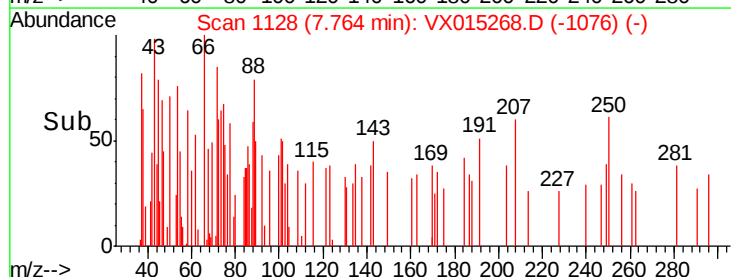
200

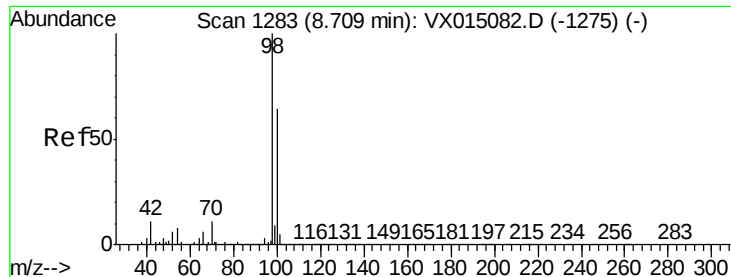
100

0

7.70 7.75 7.80

Time-->





#50

Toluene-d8

Concen: 50.753 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

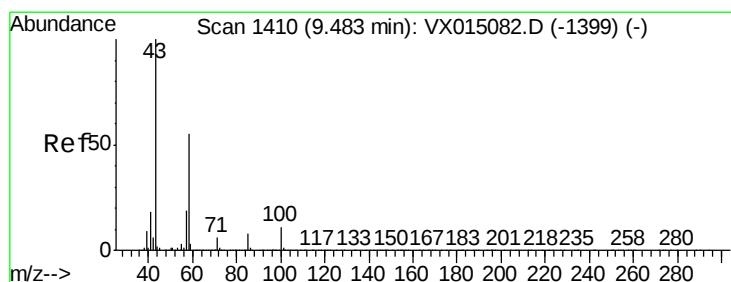
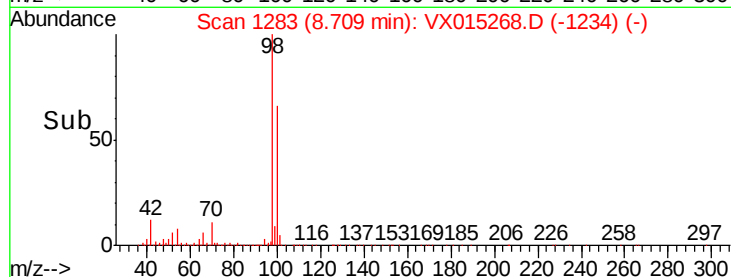
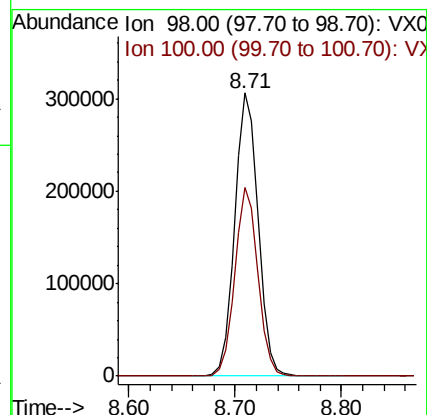
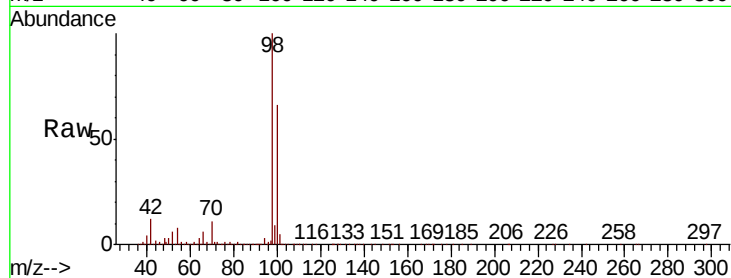
RE131D2-20200309DL

Tot Ion: 98 Resp: 473046

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



#59

2-Hexanone

Concen: 0.208 ug/l

RT: 9.47 min Scan# 1408

Delta R.T. -0.01 min

Lab File: VX015268.D

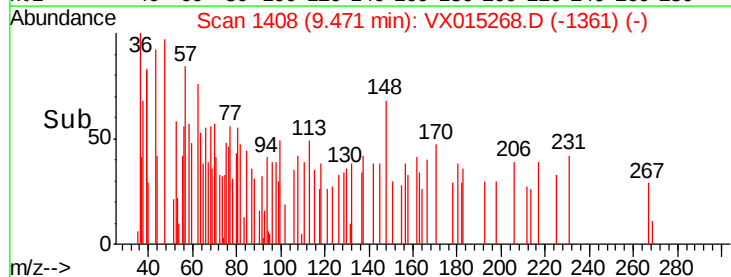
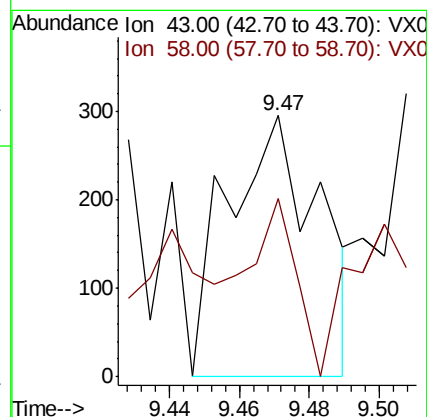
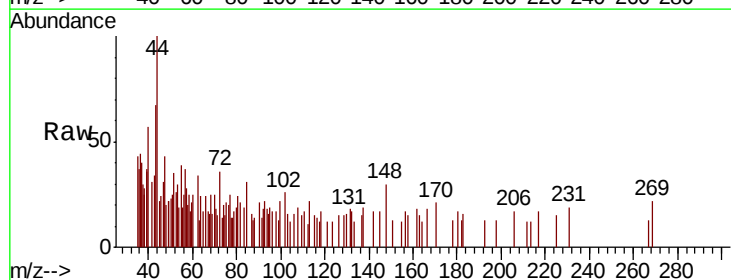
Acq: 13 Mar 2020 18:21

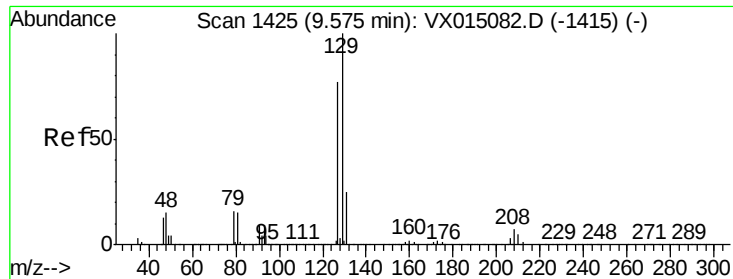
Tgt Ion: 43 Resp: 535

Ion Ratio Lower Upper

43 100

58 37.4 27.3 81.8

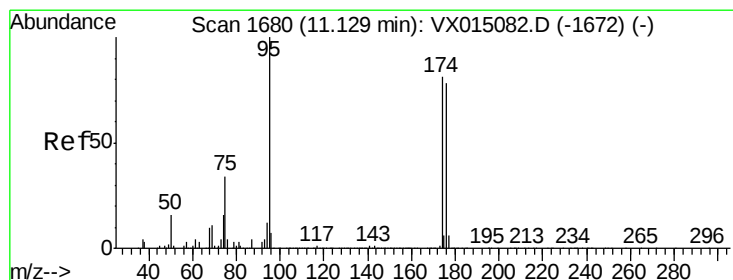
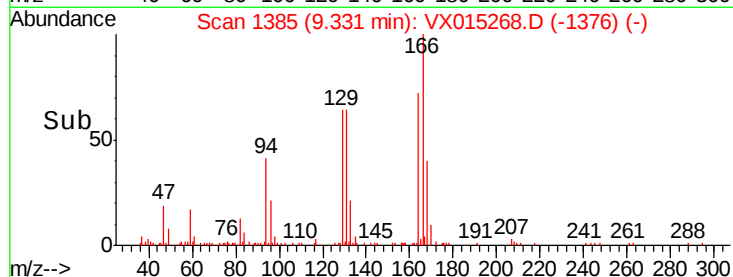
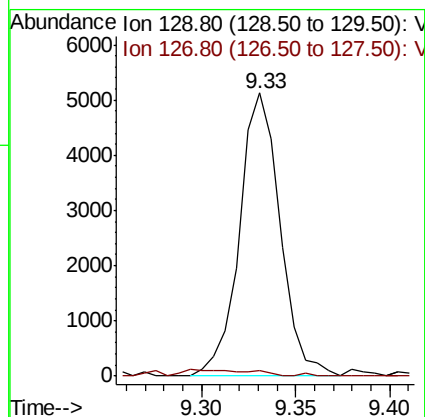
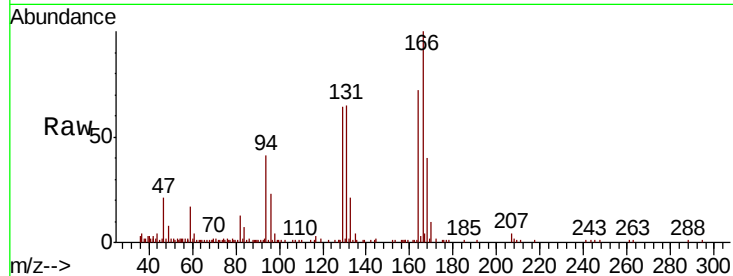




#60
 Dibromochloromethane
 Concen: 2.731 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.24 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

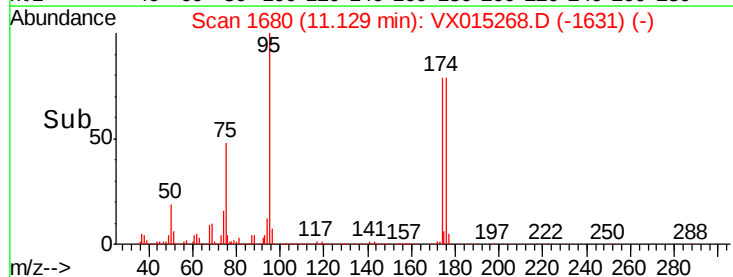
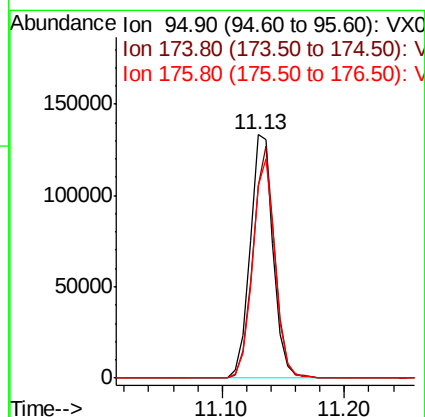
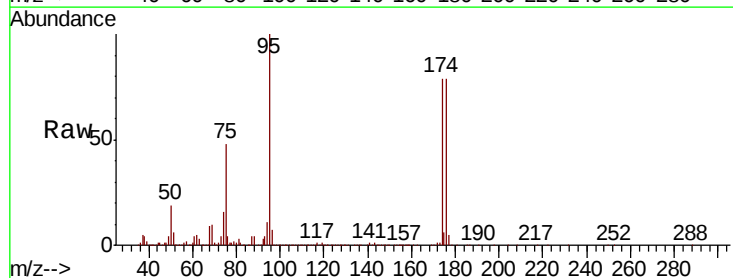
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20200309DL

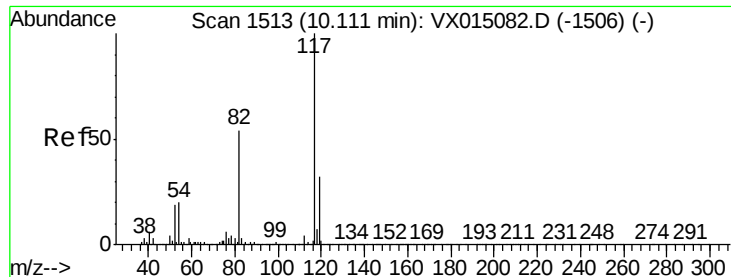
Tot Ion:129 Resp: 7690
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 52.416 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.00 min
 Lab File: VX015268.D
 Acq: 13 Mar 2020 18:21

Tgt Ion: 95 Resp: 174257
 Ion Ratio Lower Upper
 95 100
 174 91.1 0.0 177.6
 176 87.7 0.0 170.2

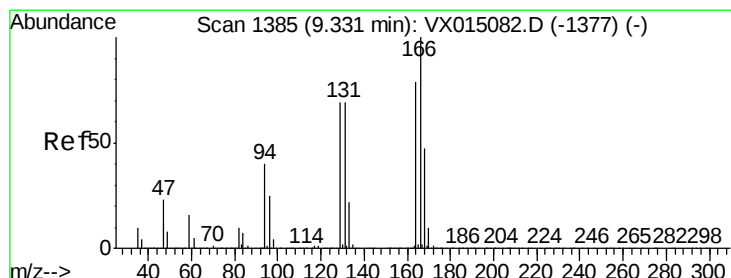
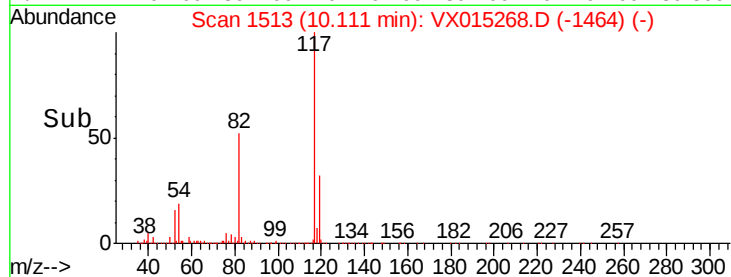
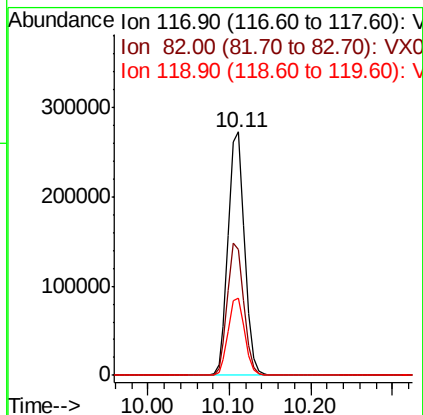
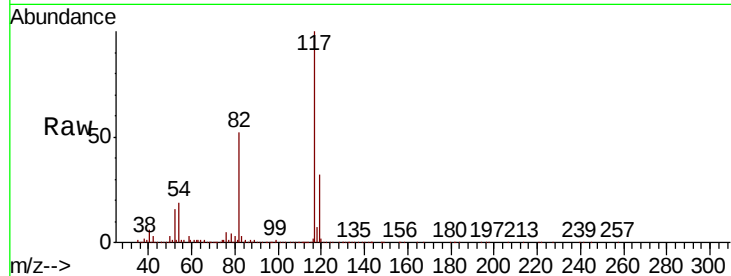




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015268.D
Acq: 13 Mar 2020 18:21

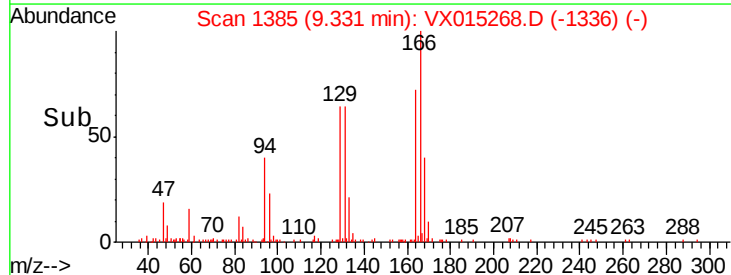
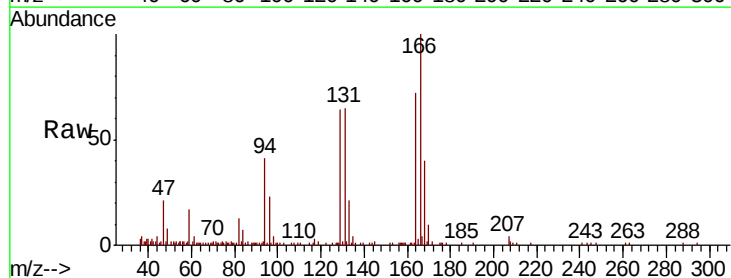
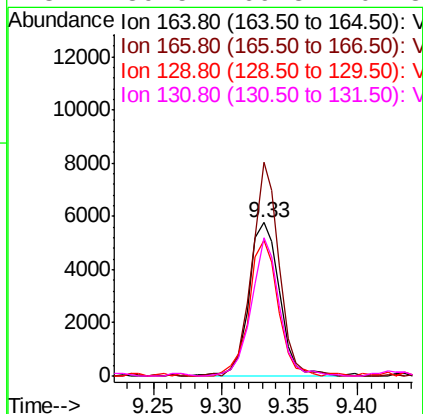
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20200309DL

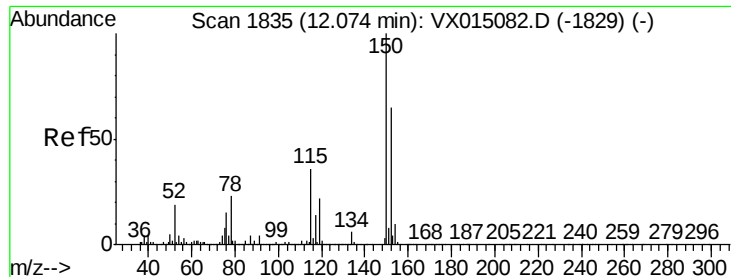
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	43.3	64.9
119	31.5	25.8	38.8



#64
Tetrachloroethene
Concen: 2.926 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015268.D
Acq: 13 Mar 2020 18:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	139.2	101.1	151.7
129	88.9	69.4	104.0
131	89.5	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: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

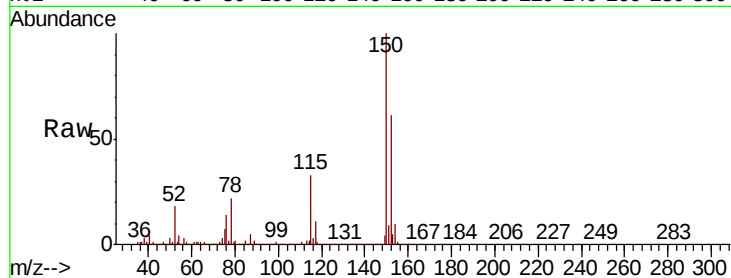
Tot Ion:152 Resp: 193107

Ion Ratio Lower Upper

152 100

115 54.9 38.2 114.6

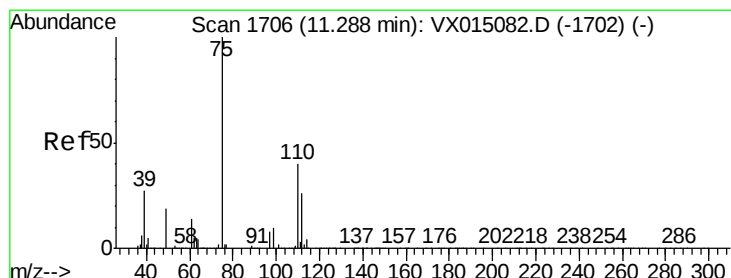
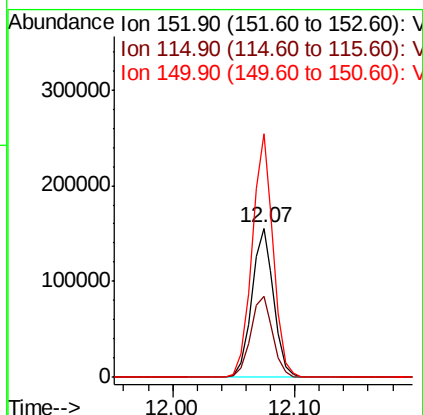
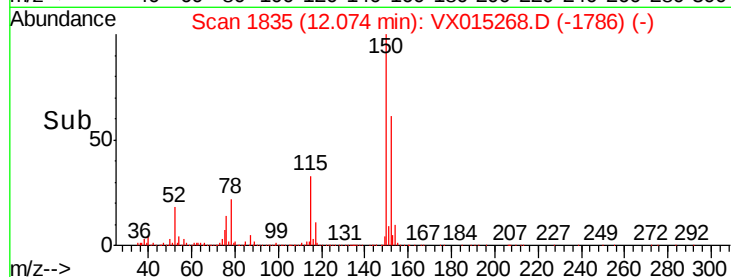
150 157.4 0.0 343.8



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: 22.028 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX015268.D

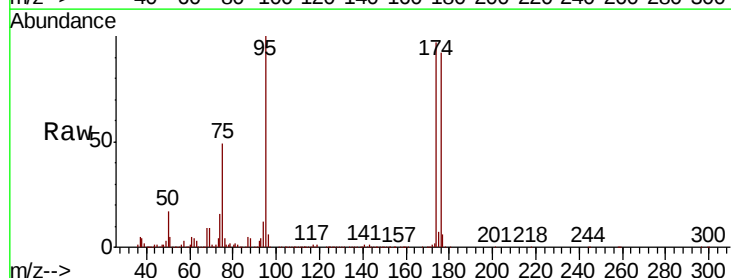
Acq: 13 Mar 2020 18:21

Tgt Ion: 75 Resp: 84848

Ion Ratio Lower Upper

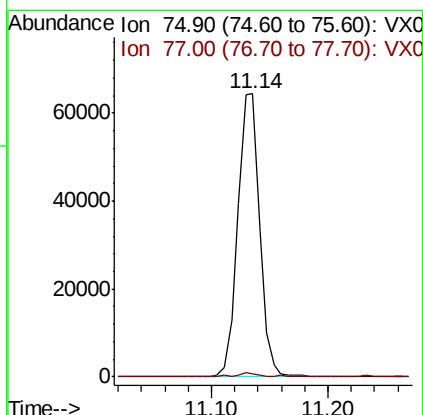
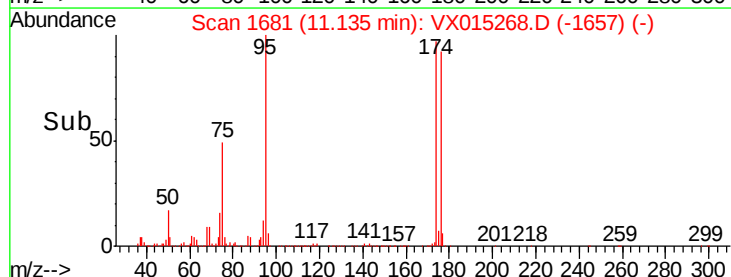
75 100

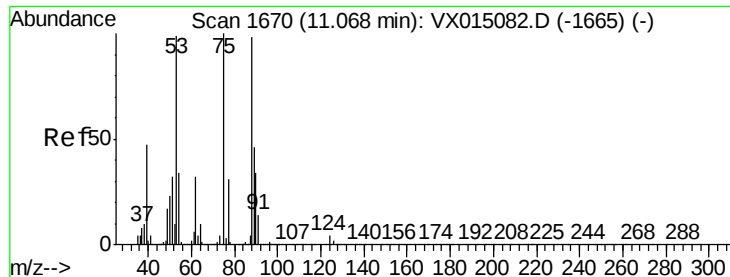
77 1.2 22.6 67.8#



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: 62.514 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20200309DL

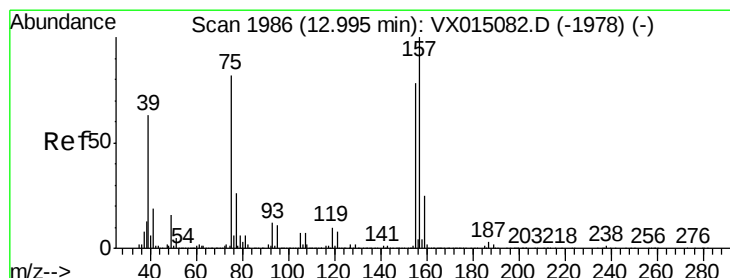
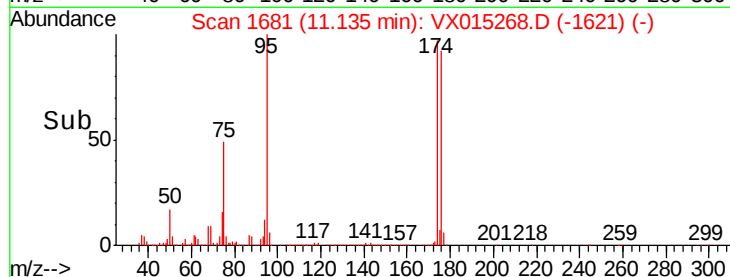
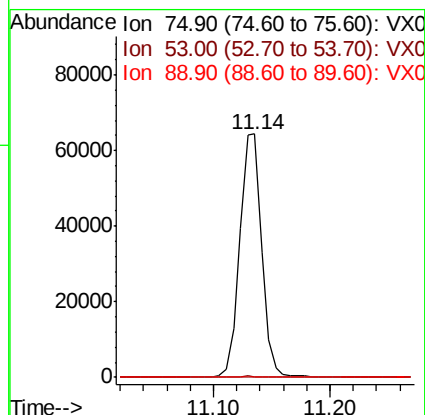
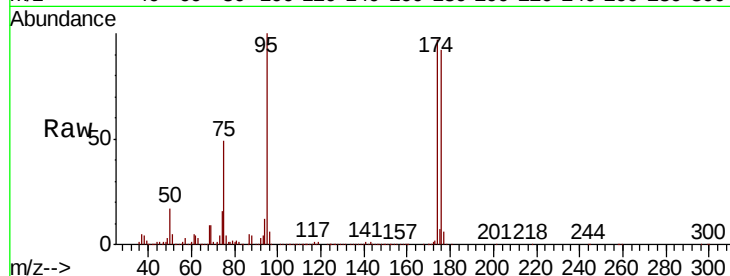
Tot Ion: 75 Resp: 84848

Ion Ratio Lower Upper

75 100

53 0.1 77.9 116.9#

89 0.1 36.2 54.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.209 ug/l

RT: 13.00 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VX015268.D

Acq: 13 Mar 2020 18:21

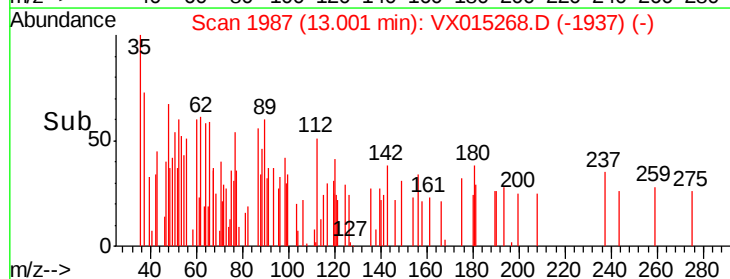
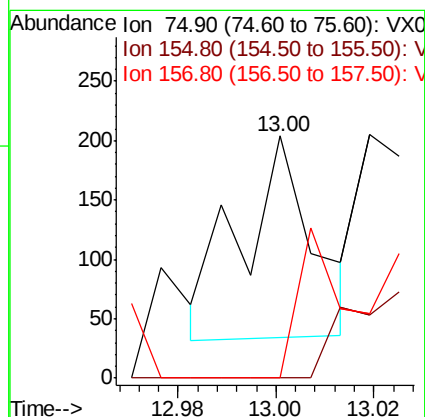
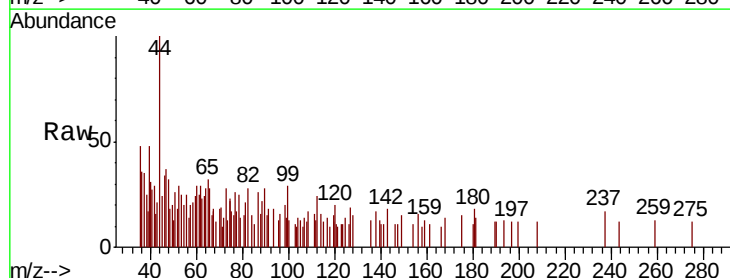
Tgt Ion: 75 Resp: 172

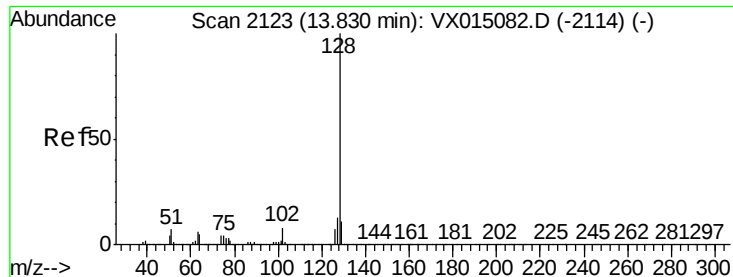
Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.7#

157 51.2 59.2 177.5#





#95
Naphthalene
Concen: 1.454 ug/l
RT: 13.85 min Scan# 2126
Delta R.T. 0.02 min
Lab File: VX015268.D
Acq: 13 Mar 2020 18:21

Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20200309DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.9	10.3	15.5#
129	0.0	8.6	13.0#

