

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019931.D
 Acq On : 12 Dec 2020 14:51
 Operator : JC/MD
 Sample : L4996-20DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208DL

Quant Time: Dec 14 05:29:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	328417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	551932	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	507633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	226882	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	209085	48.44	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.88%	
35) Dibromofluoromethane		5.46	113	168586	47.26	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.52%	
50) Toluene-d8		8.70	98	666367	48.93	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.86%	
62) 4-Bromofluorobenzene		11.12	95	242398	46.77	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.54%	

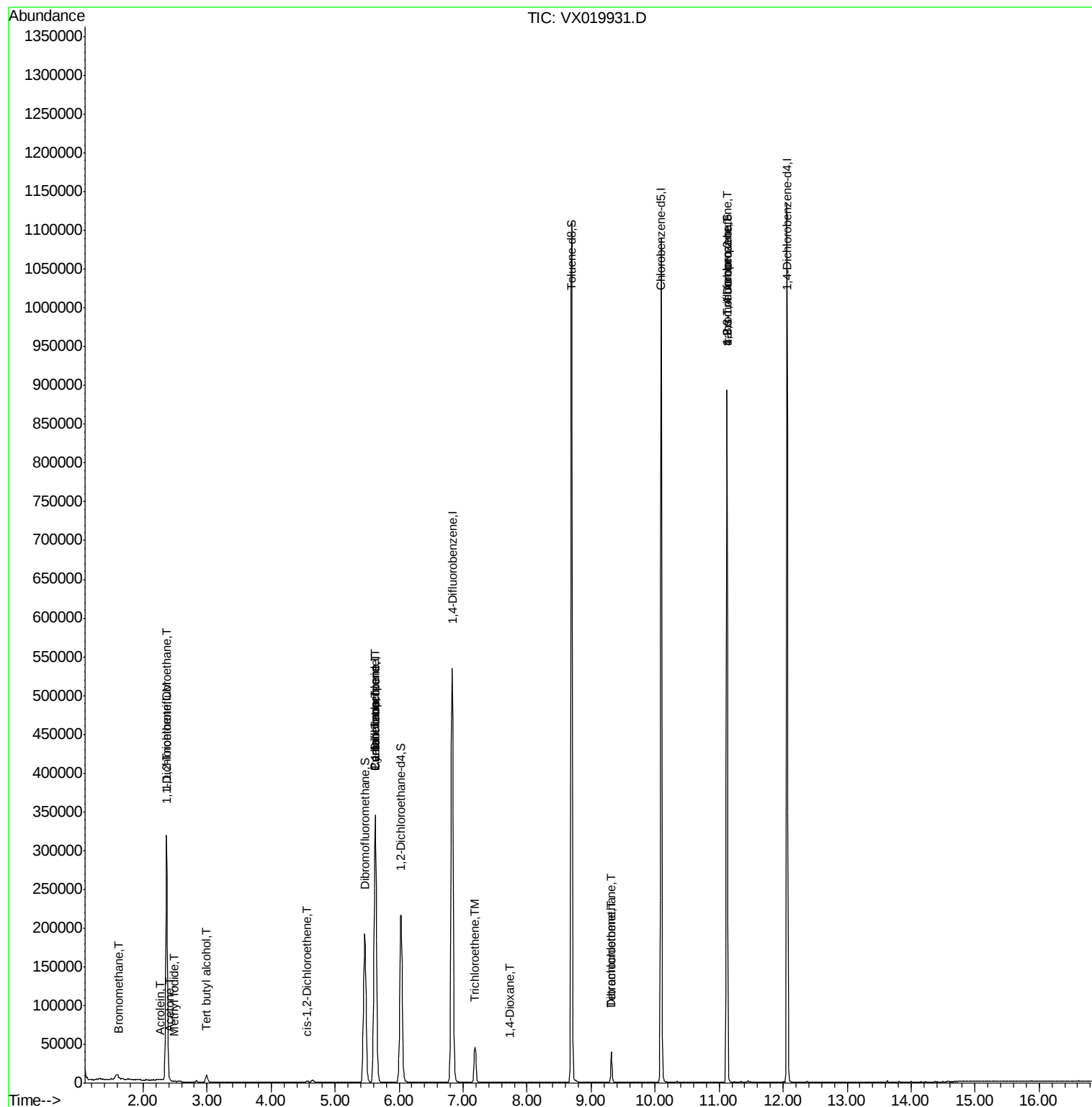
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	881	0.712	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	130509	43.849	ug/l	99
10) Methyl Iodide	2.49	142	1277	0.291	ug/l #	96
11) Tert butyl alcohol	2.99	59	5534	3.661	ug/l #	77
12) 1,1-Dichloroethene	2.36	96	1091	0.363	ug/l #	72
13) Acrolein	2.27	56	136	0.285	ug/l #	1
16) Acetone	2.42	43	703	0.433	ug/l	97
20) Methylene Chloride	2.83	84	868	Below Cal		98
27) cis-1,2-Dichloroethene	4.57	96	1422	0.346	ug/l	94
31) Cyclohexane	5.63	56	6441	1.200	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25042	5.021	ug/l #	48
38) Carbon Tetrachloride	5.63	117	32069	6.566	ug/l #	17
44) Trichloroethene	7.19	130	18287	4.575	ug/l	97
49) 1,4-Dioxane	7.73	88	67	0.687	ug/l #	1
60) Dibromochloromethane	9.32	129	7427	1.904	ug/l #	11
64) Tetrachloroethene	9.32	164	8133	2.389	ug/l	91
76) 1,2,3-Trichloropropane	11.12	75	115730	22.743	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	115730	65.746	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

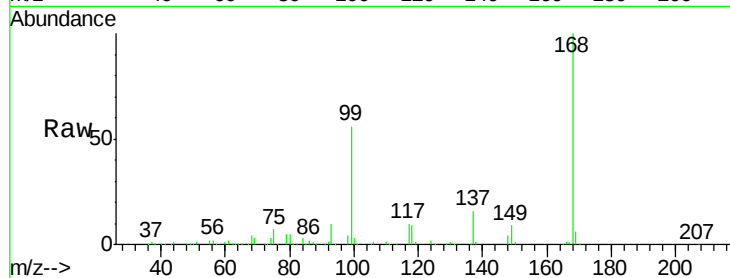
RE134D4-20201208DL

Tgt Ion:168 Resp: 328417

Ion Ratio Lower Upper

168 100

99 55.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

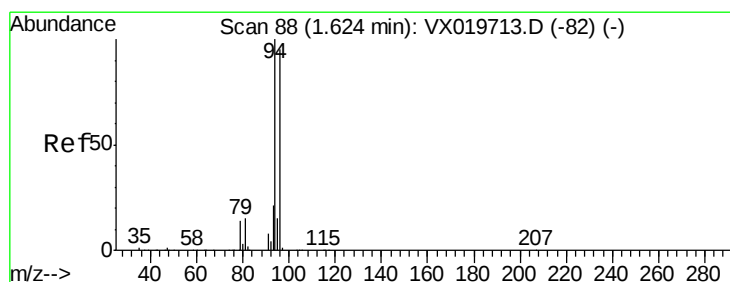
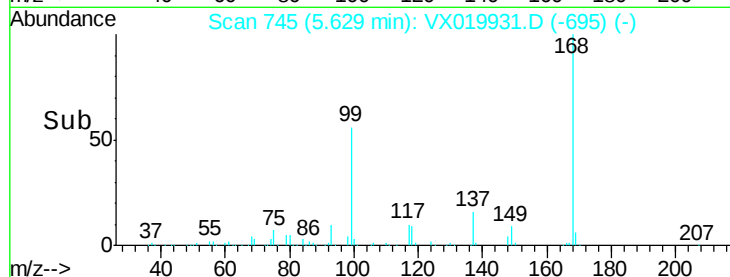
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.712 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019931.D

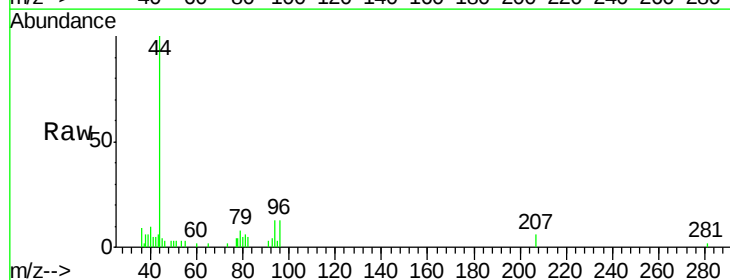
Acq: 12 Dec 2020 14:51

Tgt Ion: 94 Resp: 881

Ion Ratio Lower Upper

94 100

96 100.3 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

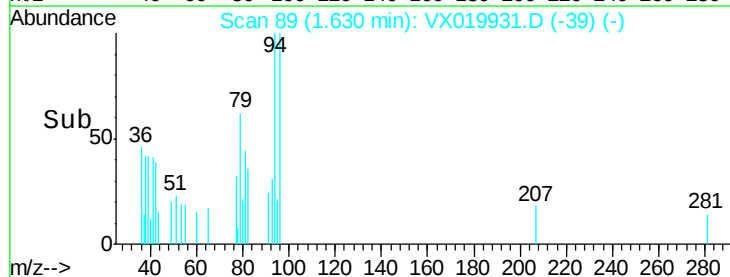
300

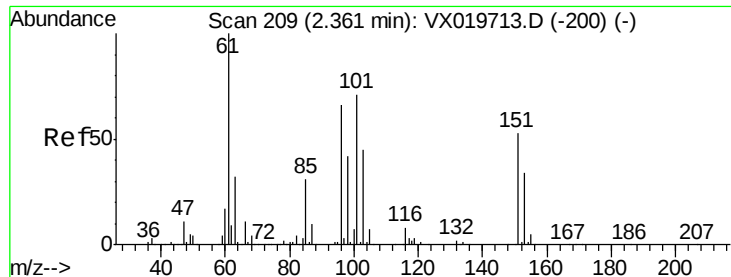
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.849 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208DL

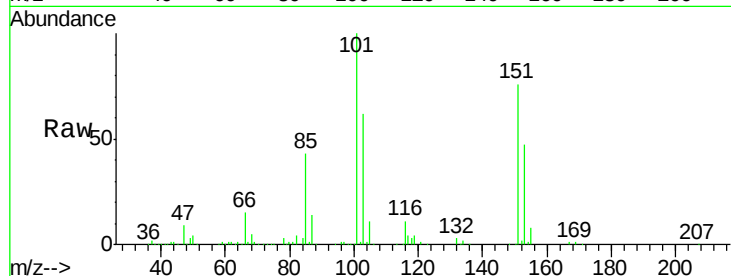
Tgt Ion:101 Resp: 130509

Ion Ratio Lower Upper

101 100

85 43.1 34.9 52.3

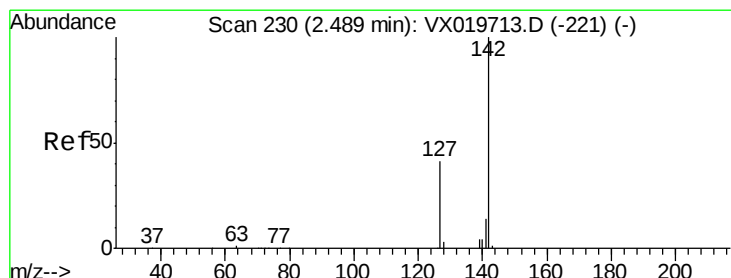
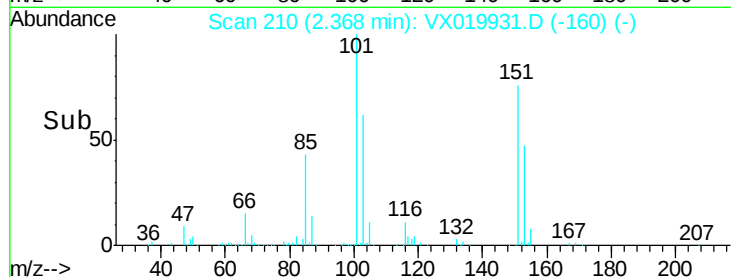
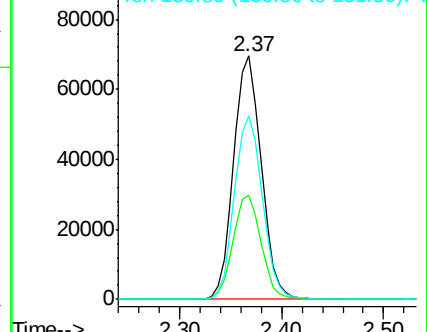
151 76.4 61.4 92.2



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



#10

Methyl Iodide

Concen: 0.291 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

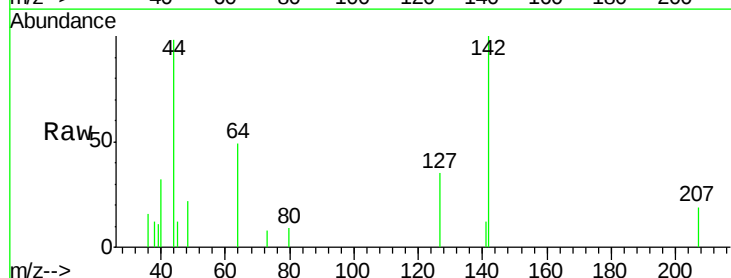
Tgt Ion:142 Resp: 1277

Ion Ratio Lower Upper

142 100

127 40.5 33.3 49.9

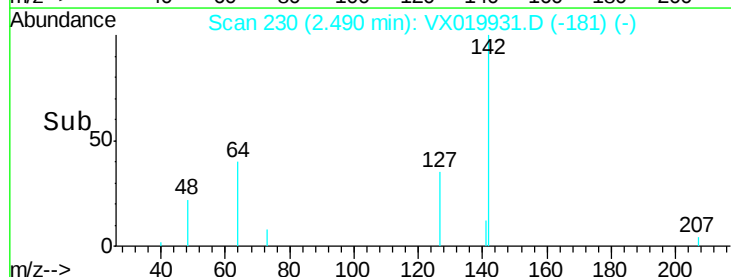
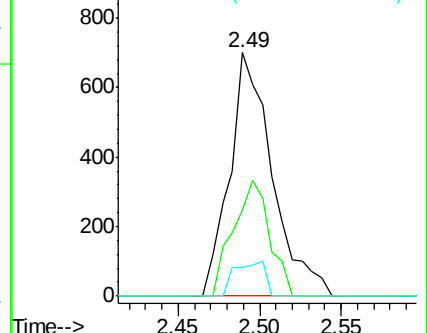
141 10.0 11.4 17.0#

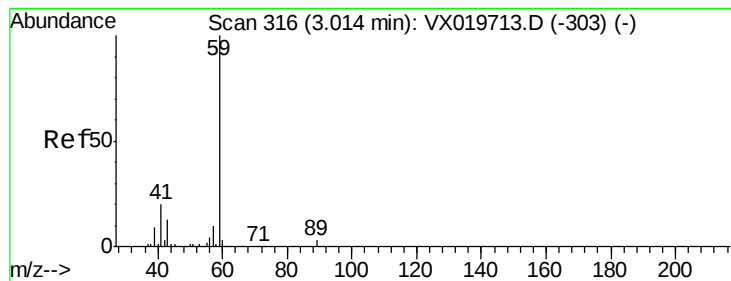


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



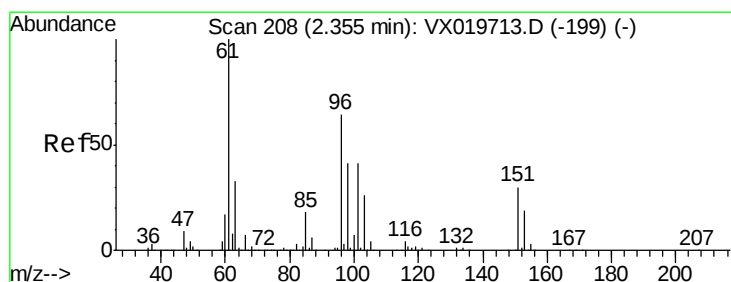
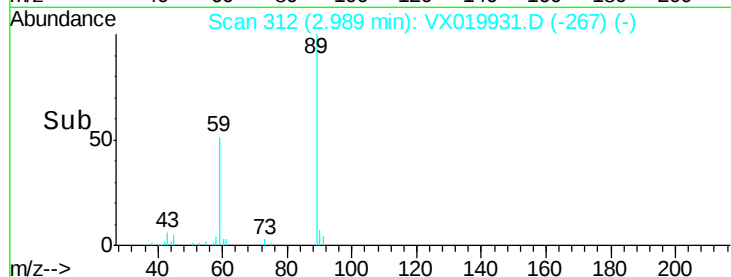
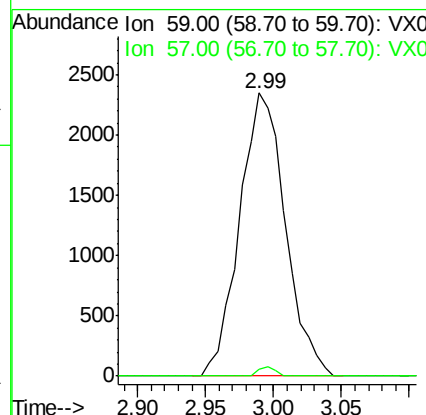
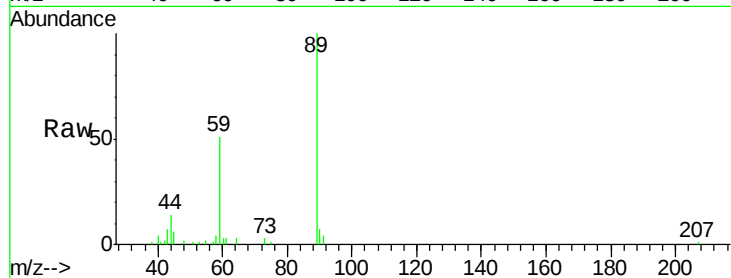


#11

Tert butyl alcohol
 Concen: 3.661 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019931.D
 Acq: 12 Dec 2020 14:51

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208DL

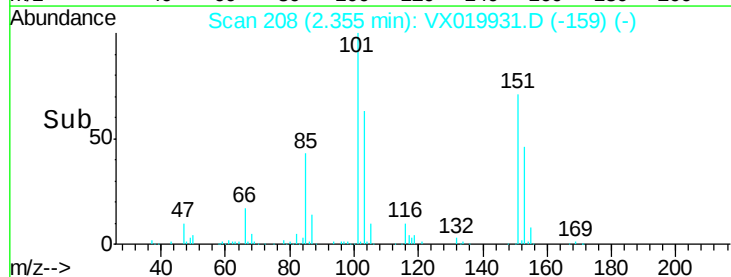
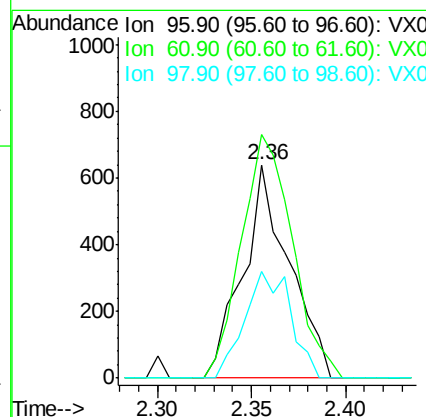
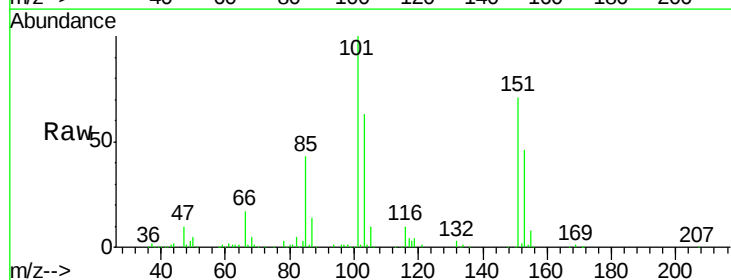
Tgt Ion: 59 Resp: 5534
 Ion Ratio Lower Upper
 59 100
 57 1.2 7.8 11.8#

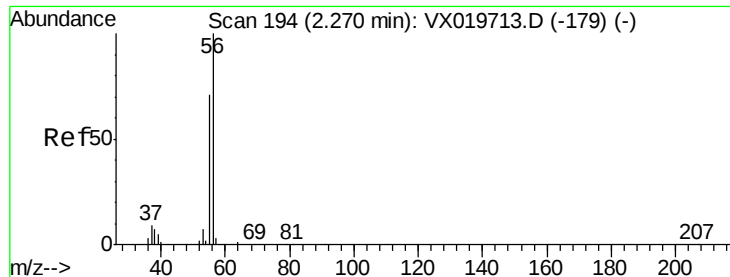


#12

1,1-Dichloroethene
 Concen: 0.363 ug/l
 RT: 2.36 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VX019931.D
 Acq: 12 Dec 2020 14:51

Tgt Ion: 96 Resp: 1091
 Ion Ratio Lower Upper
 96 100
 61 114.1 124.6 187.0#
 98 49.8 50.6 76.0#





#13

Acrolein

Concen: 0.285 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

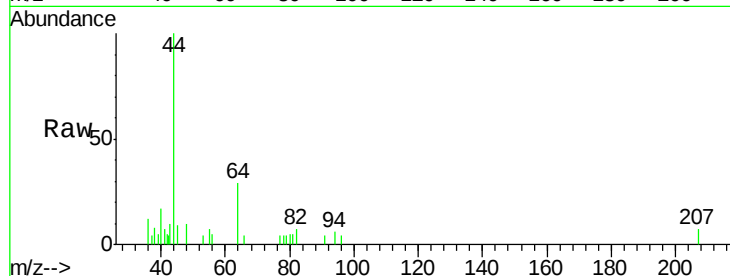
RE134D4-20201208DL

Tgt Ion: 56 Resp: 136

Ion Ratio Lower Upper

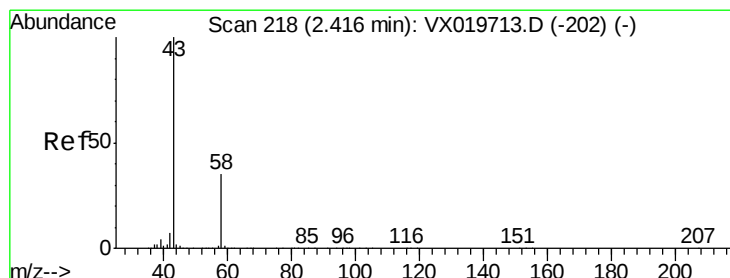
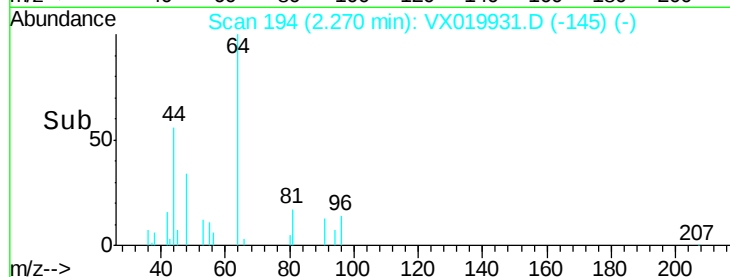
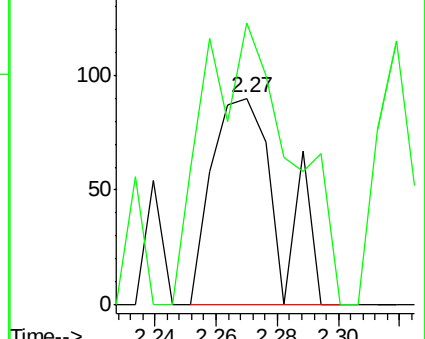
56 100

55 179.4 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.433 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019931.D

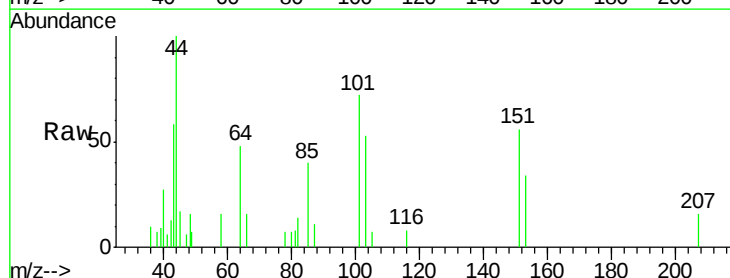
Acq: 12 Dec 2020 14:51

Tgt Ion: 43 Resp: 703

Ion Ratio Lower Upper

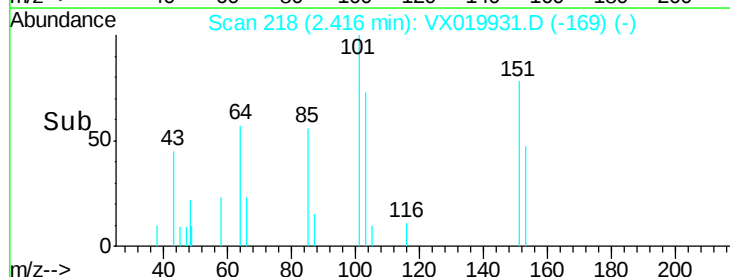
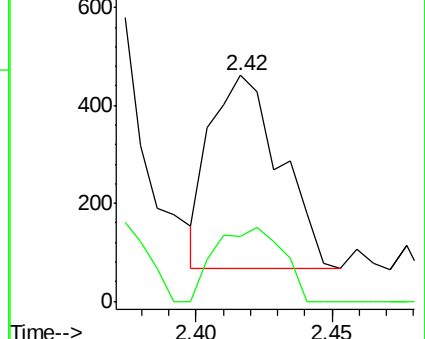
43 100

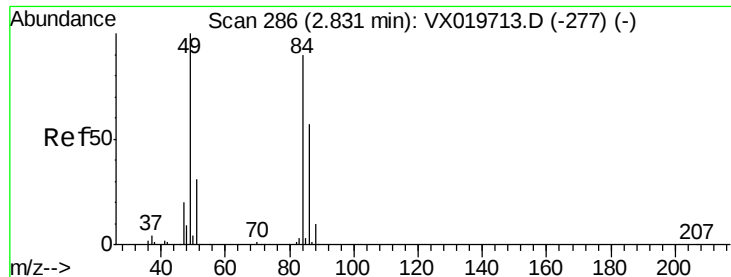
58 33.2 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

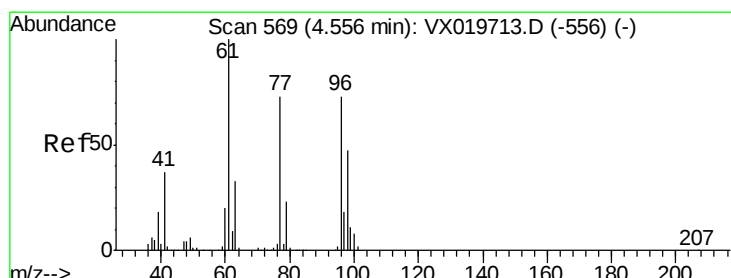
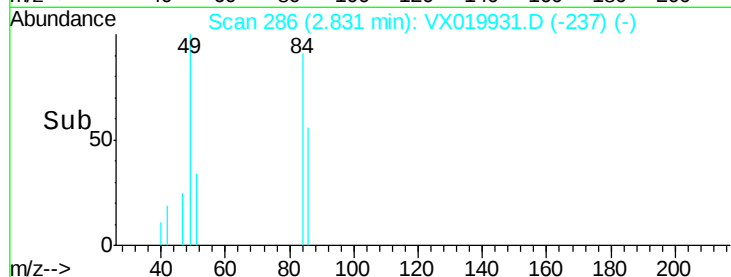
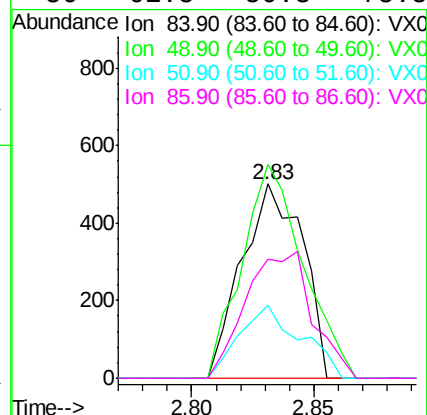
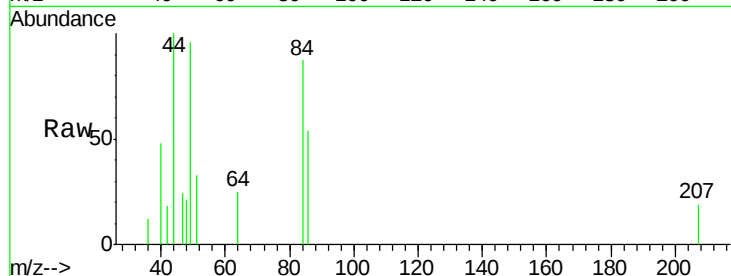




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019931.D
Acq: 12 Dec 2020 14:51

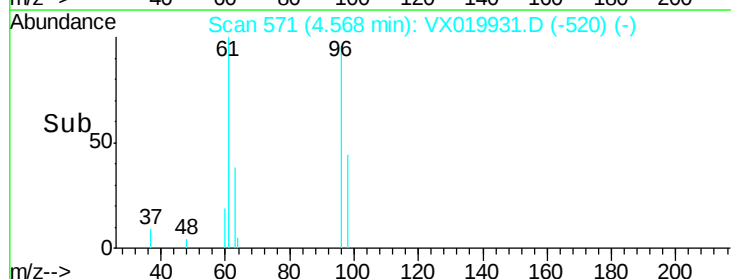
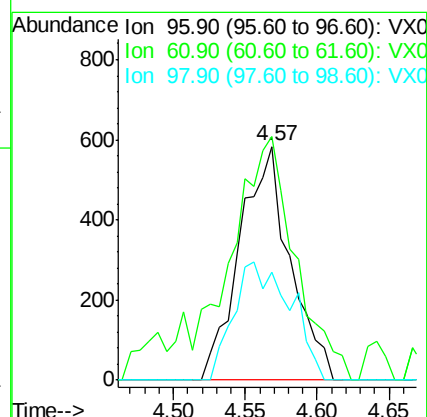
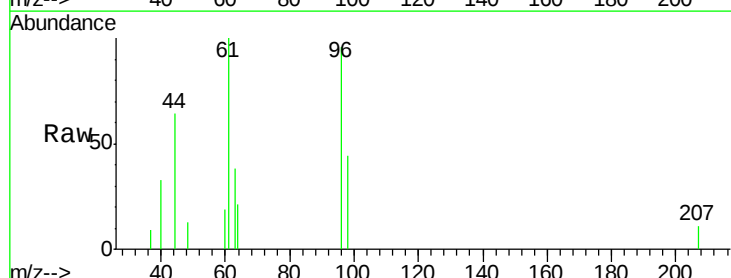
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20201208DL

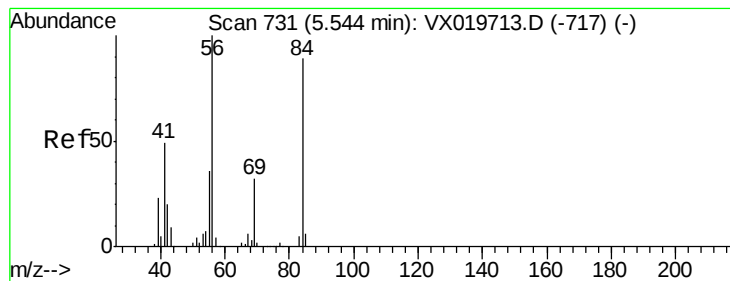
Tgt Ion:	84	Resp:	868
Ion	Ratio	Lower	Upper
84	100		
49	110.0	88.6	132.8
51	37.5	27.0	40.6
86	61.5	50.3	75.5



#27
cis-1,2-Dichloroethene
Concen: 0.346 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX019931.D
Acq: 12 Dec 2020 14:51

Tgt Ion:	96	Resp:	1422
Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	285.6
98	57.1	0.0	129.6





#31

Cyclohexane

Concen: 1.200 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208DL

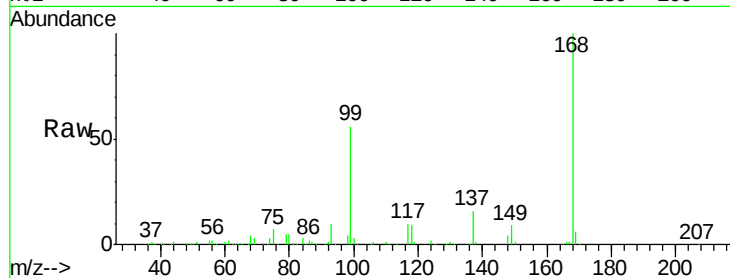
Tgt Ion: 56 Resp: 6441

Ion Ratio Lower Upper

56 100

69 169.5 25.3 37.9#

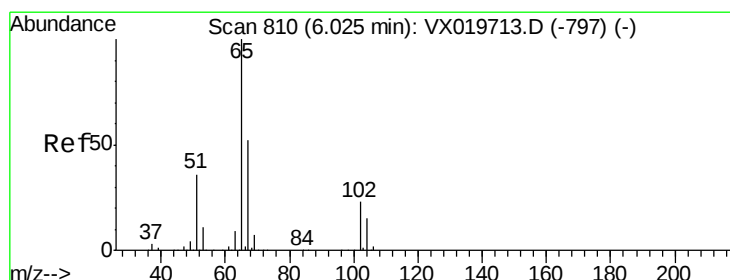
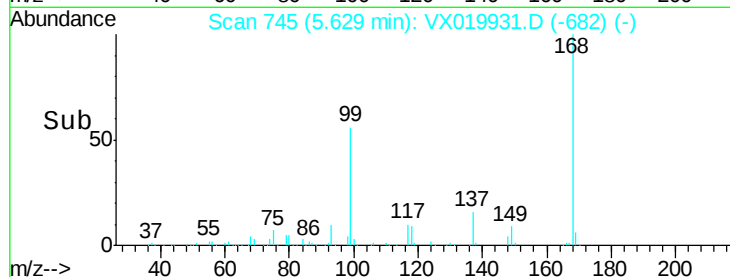
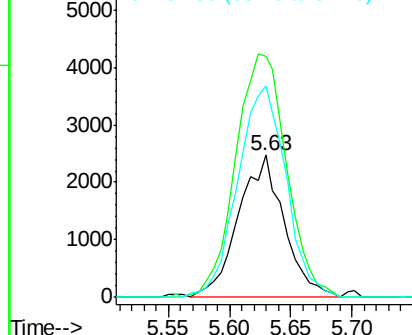
84 149.2 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.440 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019931.D

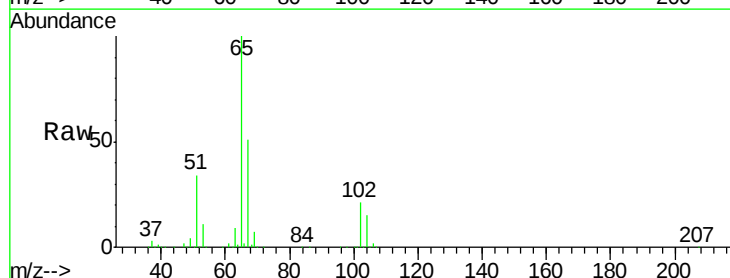
Acq: 12 Dec 2020 14:51

Tgt Ion: 65 Resp: 209085

Ion Ratio Lower Upper

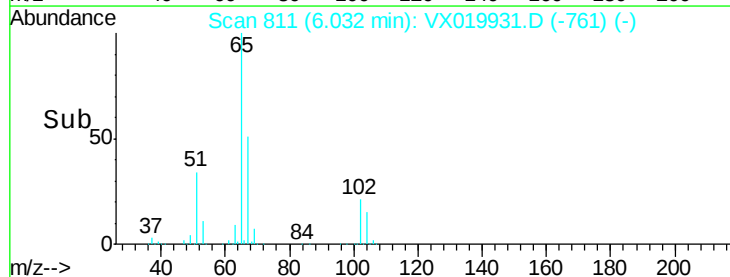
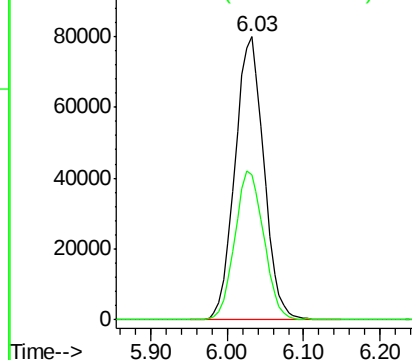
65 100

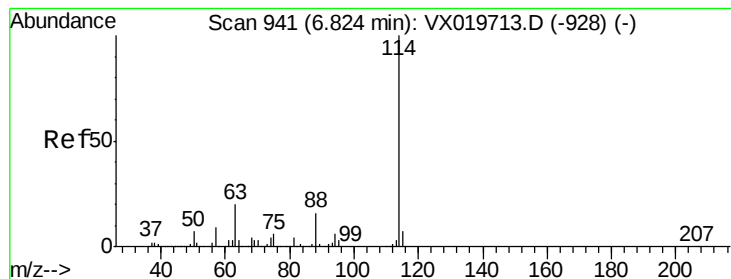
67 52.9 0.0 105.4



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: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208DL

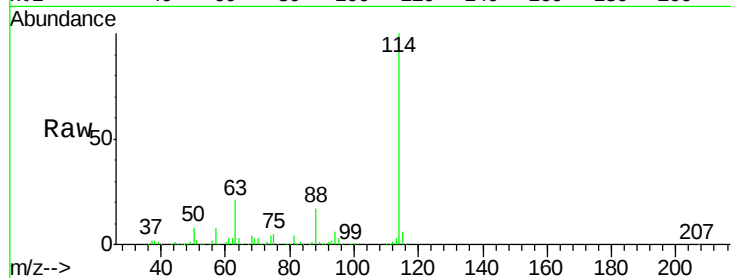
Tgt Ion:114 Resp: 551932

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

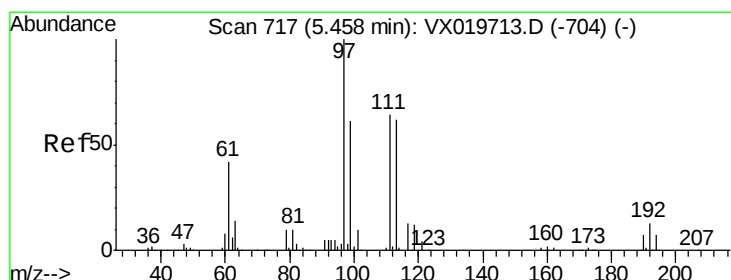
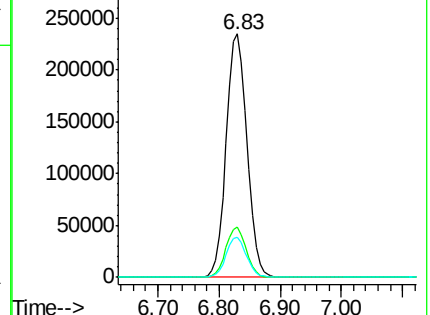
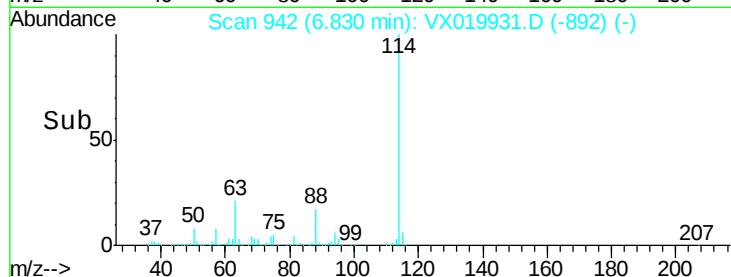
88 16.6 0.0 32.8



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: 47.262 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

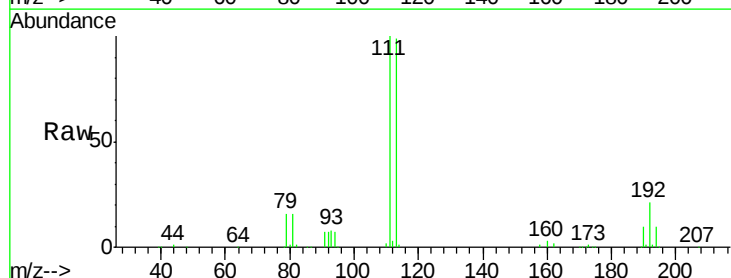
Tgt Ion:113 Resp: 168586

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

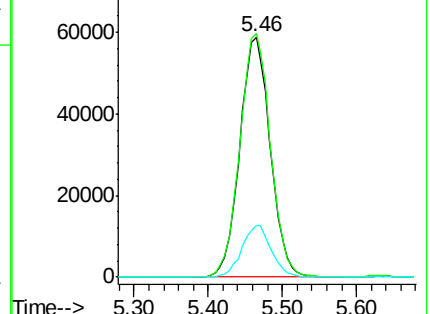
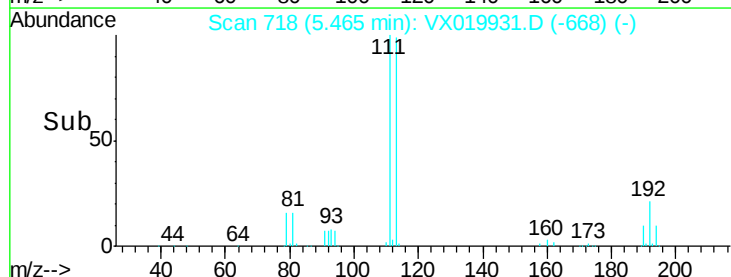
192 20.8 16.7 25.1

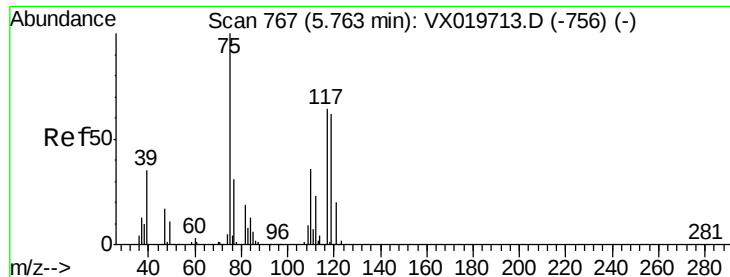


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

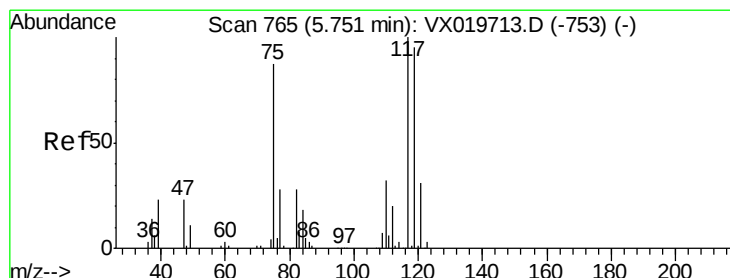
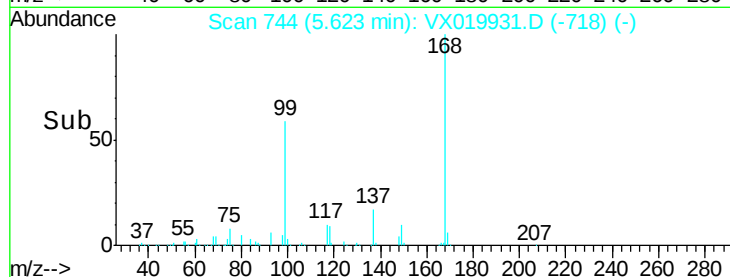
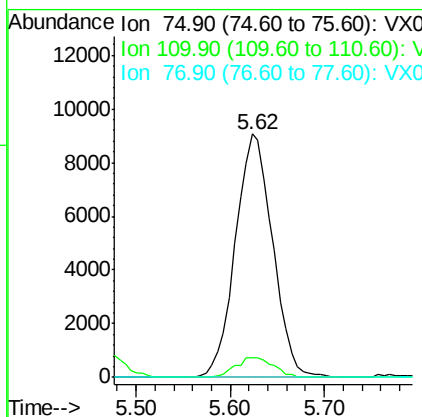
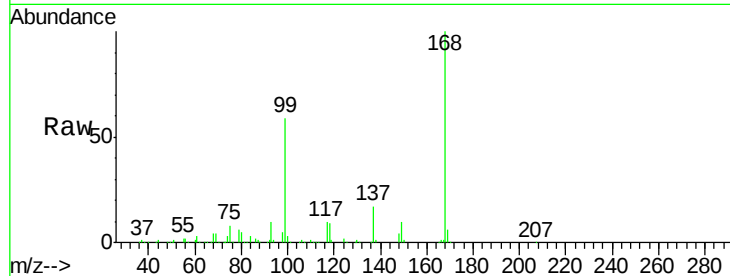




#36
 1,1-Dichloropropene
 Concen: 5.021 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019931.D
 Acq: 12 Dec 2020 14:51

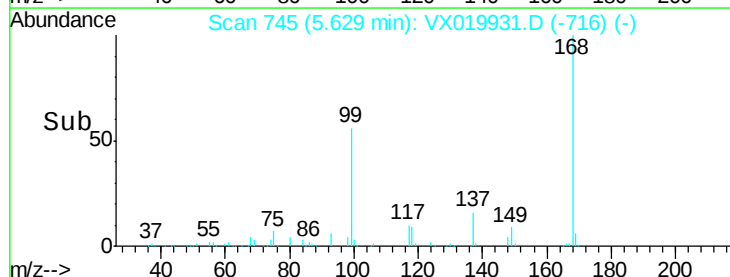
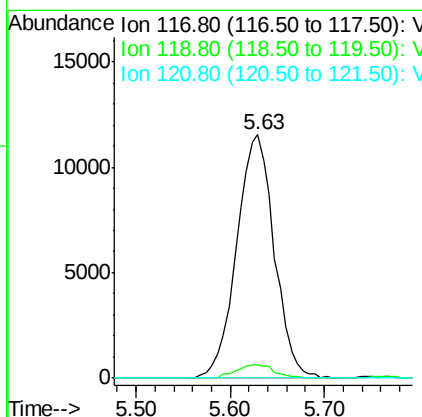
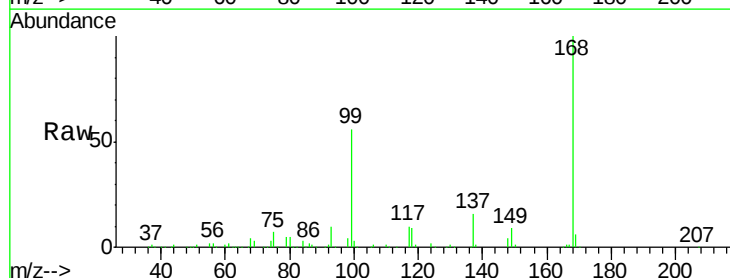
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208DL

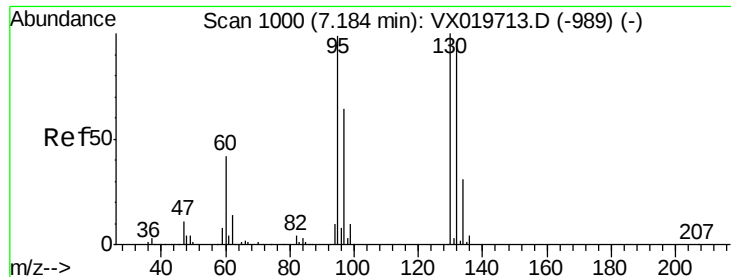
Tgt Ion: 75 Resp: 25042
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.1 54.4#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 6.566 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019931.D
 Acq: 12 Dec 2020 14:51

Tgt Ion: 117 Resp: 32069
 Ion Ratio Lower Upper
 117 100
 119 5.5 76.2 114.2#
 121 0.0 24.8 37.2#





#44

Trichloroethene

Concen: 4.575 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

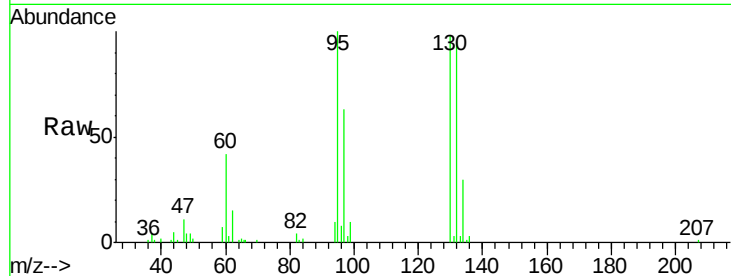
RE134D4-20201208DL

Tgt Ion:130 Resp: 18287

Ion Ratio Lower Upper

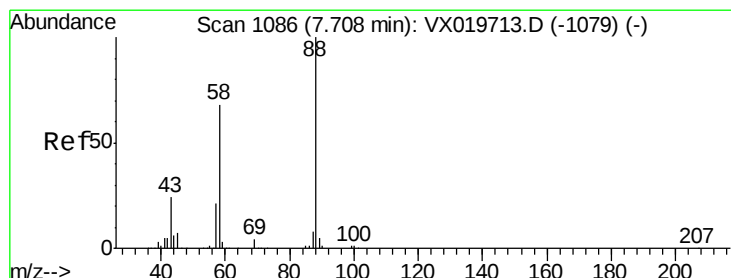
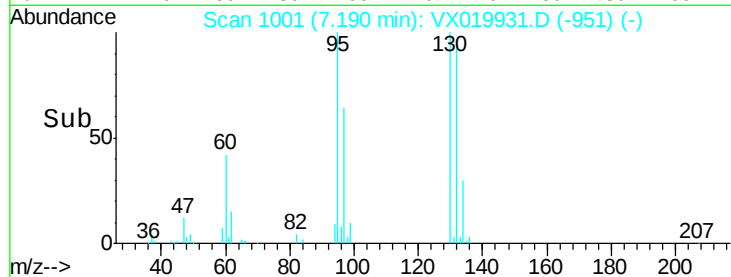
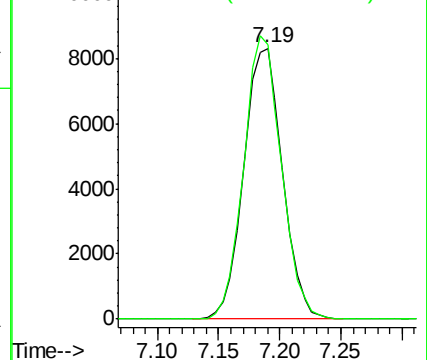
130 100

95 101.6 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.687 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

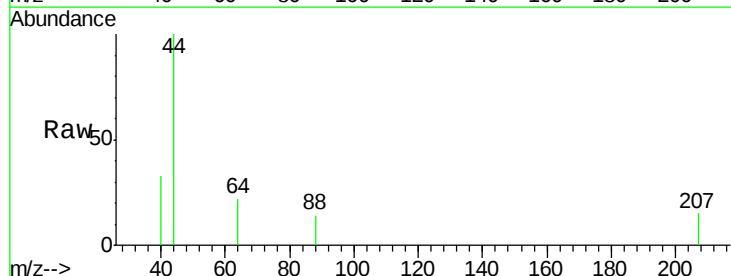
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 247.8 23.2 34.8#

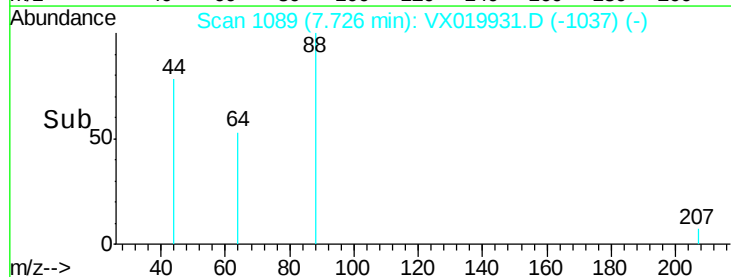
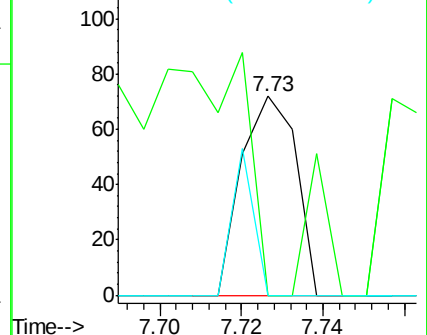
58 28.4 55.0 82.4#

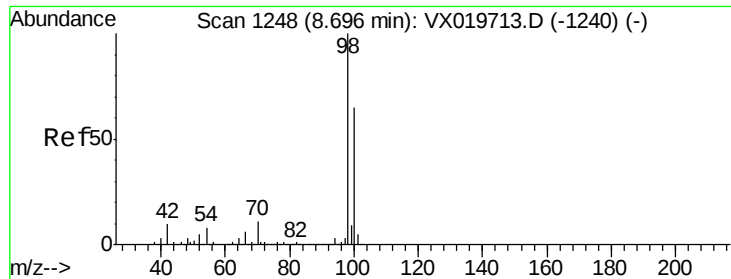


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.932 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

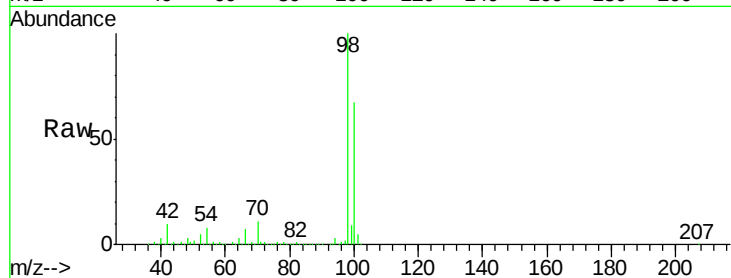
RE134D4-20201208DL

Tgt Ion: 98 Resp: 666367

Ion Ratio Lower Upper

98 100

100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

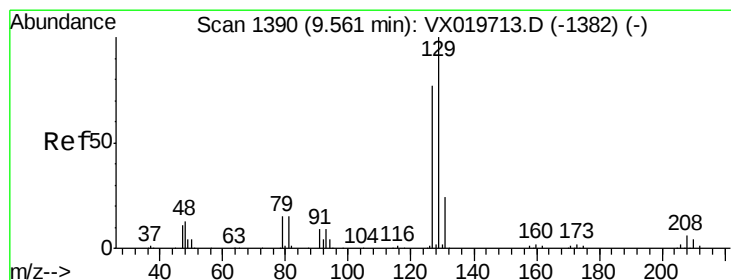
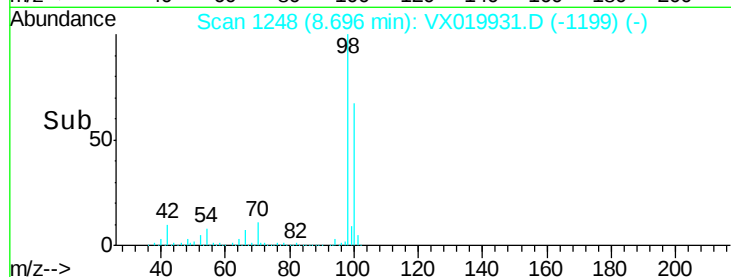
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.904 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019931.D

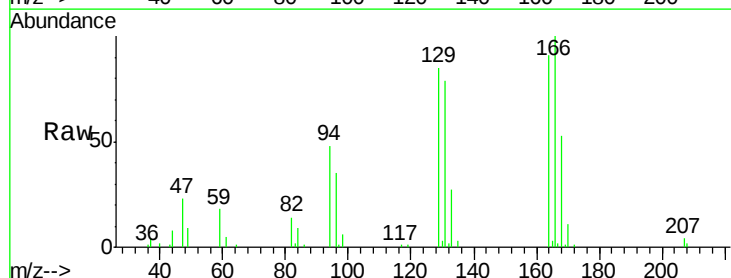
Acq: 12 Dec 2020 14:51

Tgt Ion: 129 Resp: 7427

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

6000

5000

4000

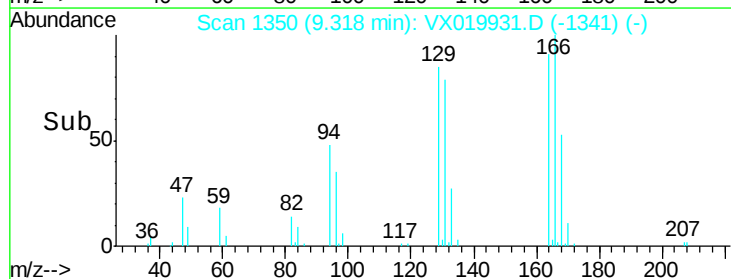
3000

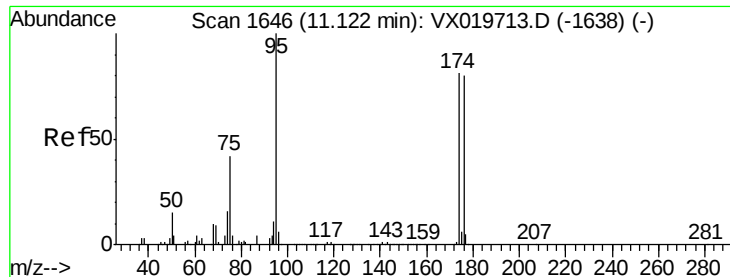
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 46.766 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208DL

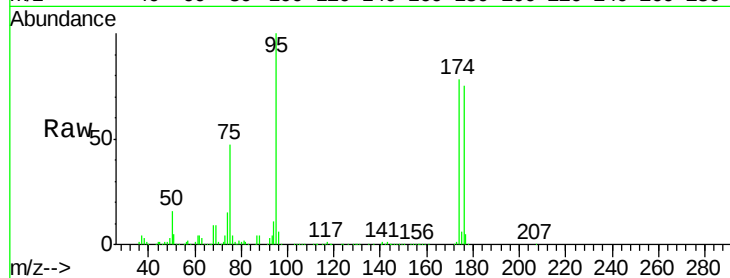
Tgt Ion: 95 Resp: 242398

Ion Ratio Lower Upper

95 100

174 77.2 0.0 154.6

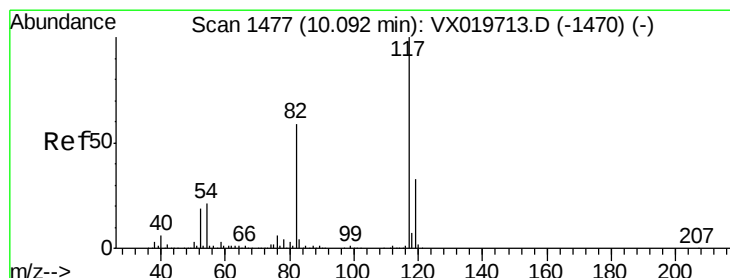
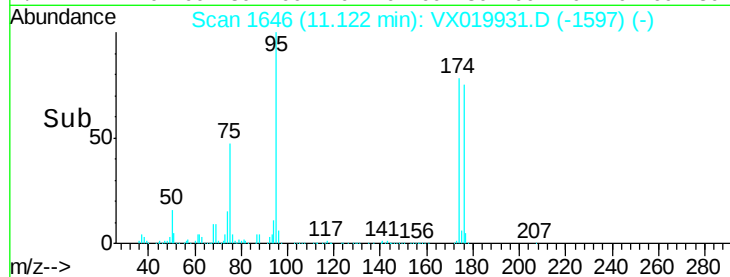
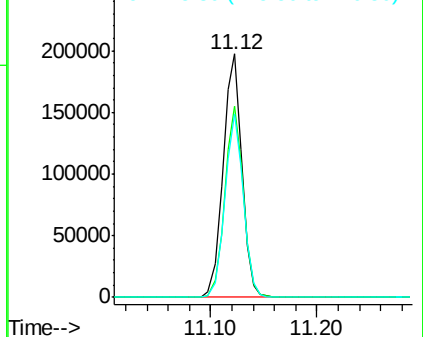
176 74.2 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

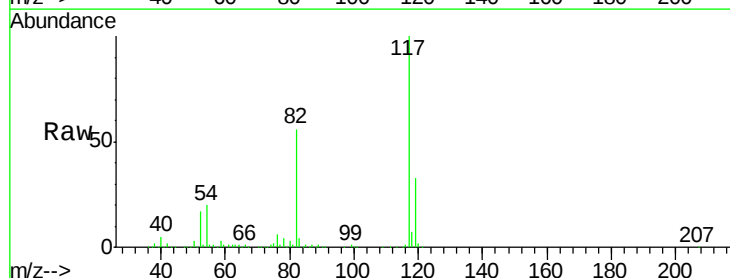
Tgt Ion: 117 Resp: 507633

Ion Ratio Lower Upper

117 100

82 55.8 47.4 71.2

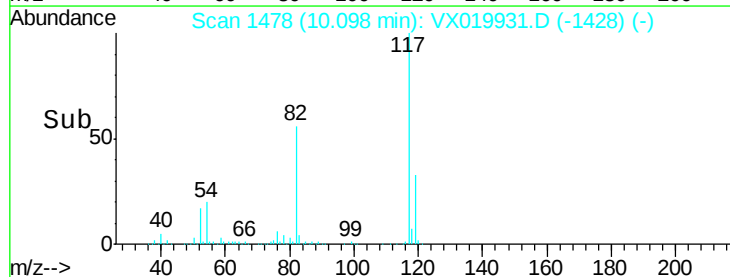
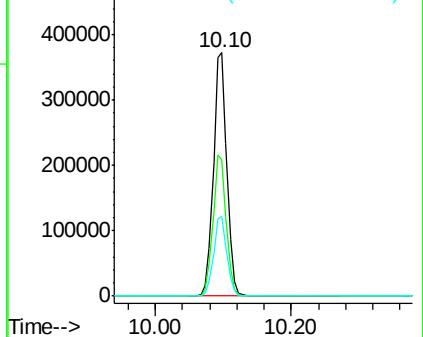
119 32.6 26.6 39.8

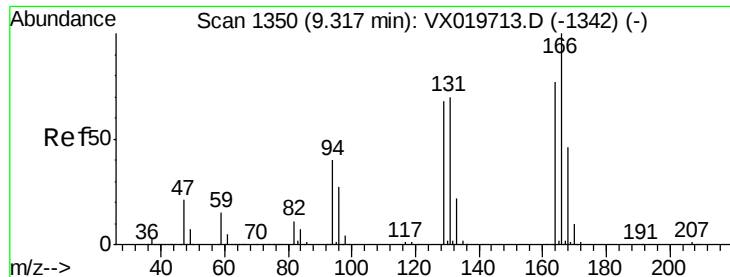


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 2.389 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208DL

Tgt Ion:164 Resp: 8133

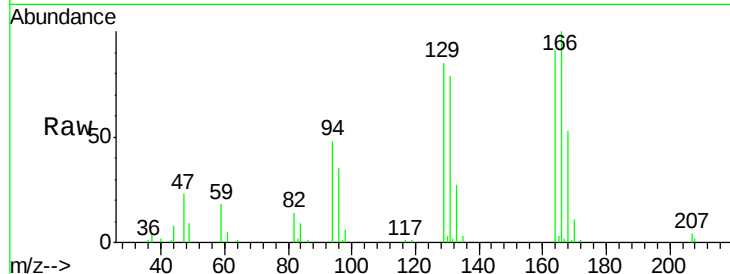
Ion Ratio Lower Upper

164 100

166 110.4 103.4 155.2

129 93.3 70.8 106.2

131 86.9 72.5 108.7

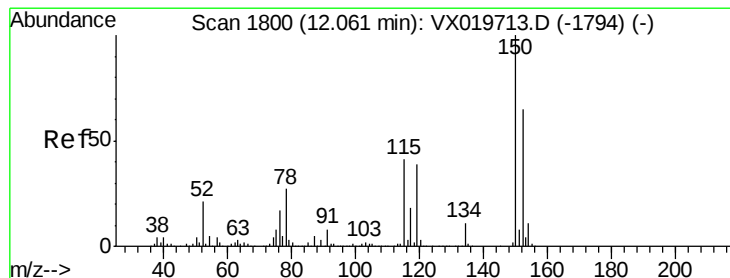
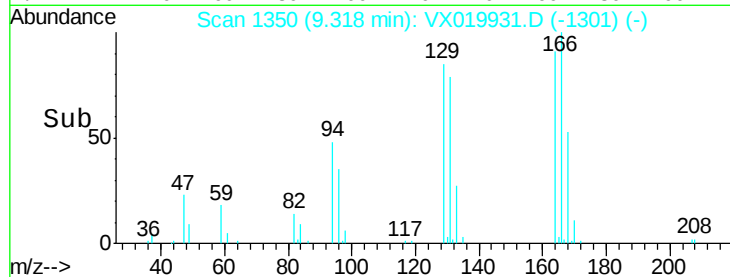
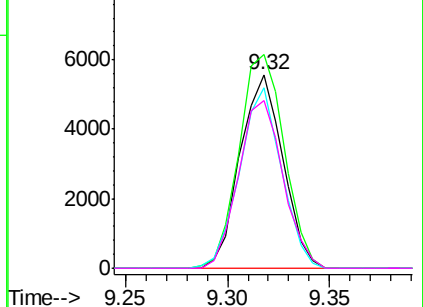


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

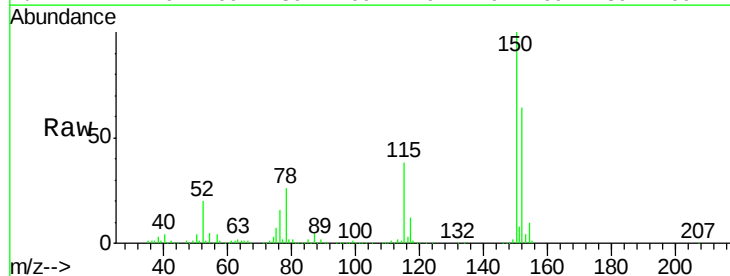
Tgt Ion:152 Resp: 226882

Ion Ratio Lower Upper

152 100

115 60.2 41.1 123.3

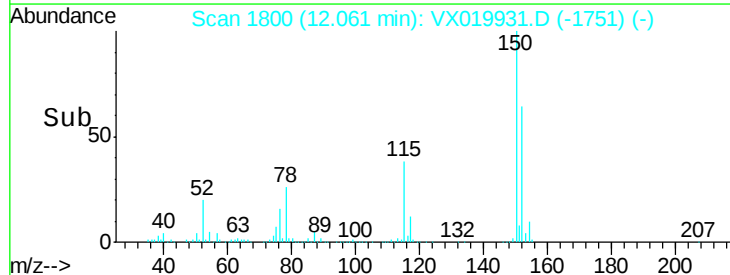
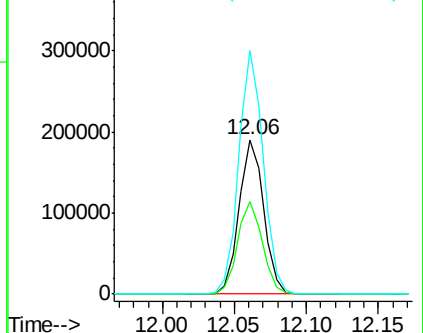
150 156.9 0.0 349.0

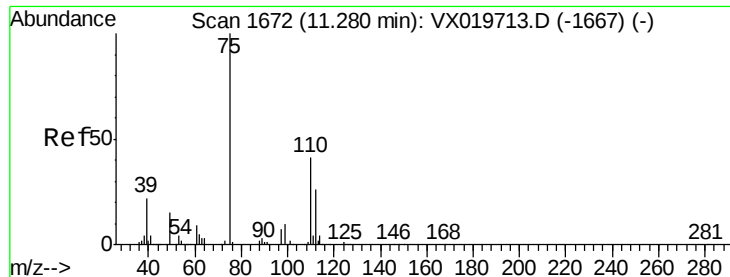


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.743 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

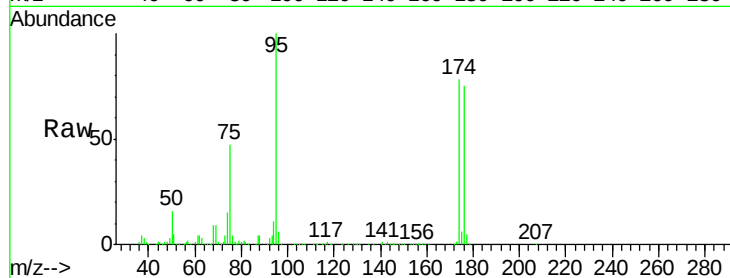
RE134D4-20201208DL

Tgt Ion: 75 Resp: 115730

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

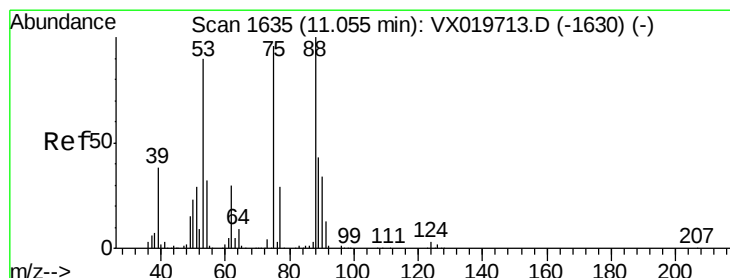
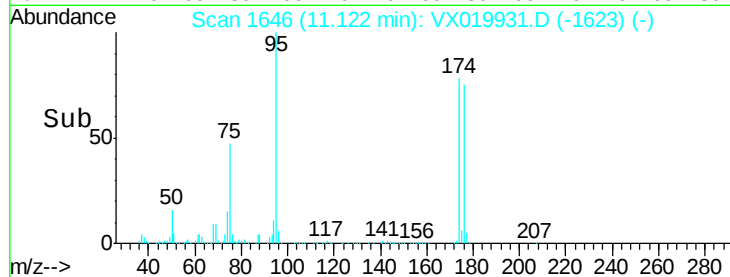
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.746 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019931.D

Acq: 12 Dec 2020 14:51

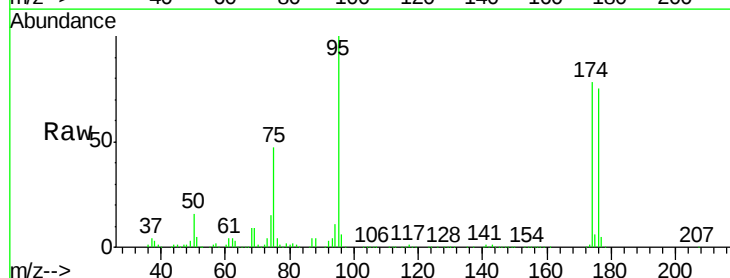
Tgt Ion: 75 Resp: 115730

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



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

11.12

120000

100000

80000

60000

40000

20000

0

Time-->

