

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042420\
 Data File : VX015938.D
 Acq On : 24 Apr 2020 18:13
 Operator : JC/SP
 Sample : L2415-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-200423

Quant Time: Apr 25 06:52:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 24 13:17:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	136060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	257558	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	245751	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	116250	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	97707	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
35) Dibromofluoromethane	5.47	113	74568	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
50) Toluene-d8	8.70	98	321506	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	
62) 4-Bromofluorobenzene	11.12	95	131007	54.31	ug/l	0.00
Spiked Amount			Recovery	=	108.62%	

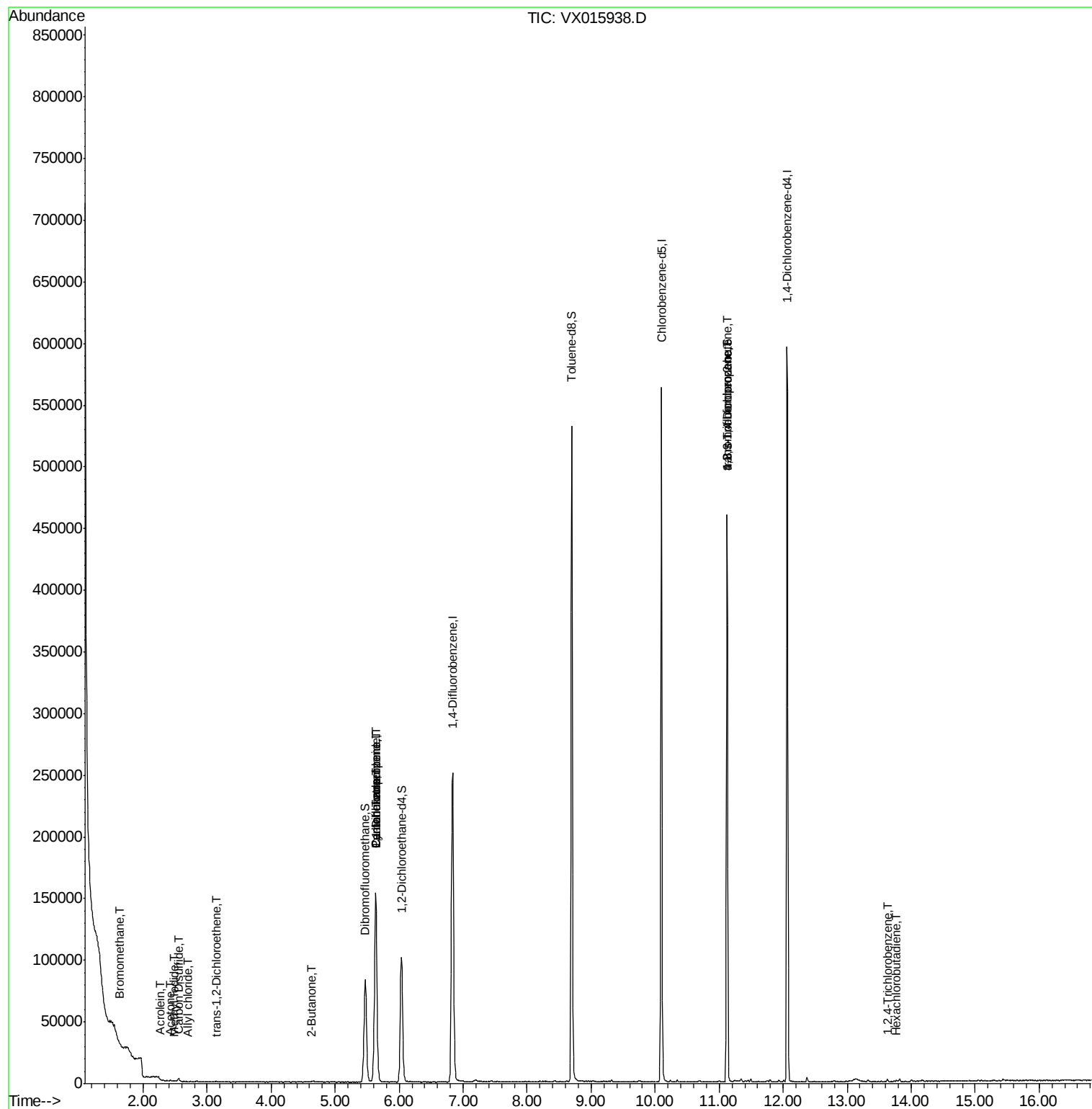
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	248	0.349	ug/l #	43
10) Methyl Iodide	2.50	142	224	4.932	ug/l #	78
13) Acrolein	2.27	56	179	0.699	ug/l #	59
14) Allyl chloride	2.69	41	654	0.240	ug/l #	33
16) Acetone	2.43	43	491	0.681	ug/l	98
17) Carbon Disulfide	2.56	76	3043	0.419	ug/l #	93
21) trans-1,2-Dichloroethene	3.14	96	453	0.263	ug/l #	44
25) 2-Butanone	4.64	43	316	0.269	ug/l #	47
31) Cyclohexane	5.64	56	3487	1.210	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	12923	5.257	ug/l #	49
38) Carbon Tetrachloride	5.64	117	14474	6.444	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	65800	26.387	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	65800	59.440	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	537	0.238	ug/l	92
94) Hexachlorobutadiene	13.77	225	198	0.247	ug/l	81

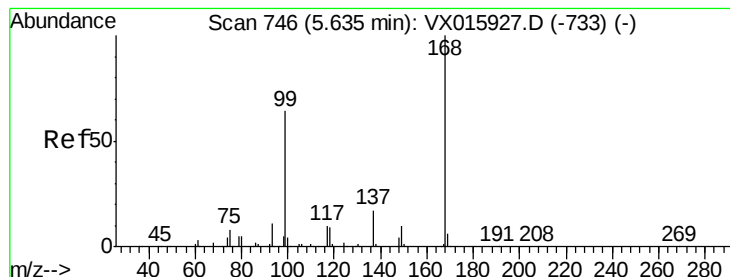
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

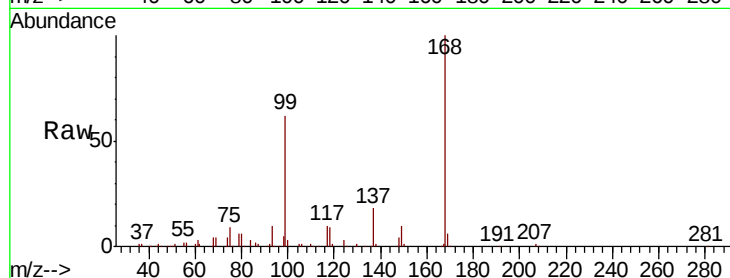
Z3-TB10-200423

Tot Ion:168 Resp: 136060

Ion Ratio Lower Upper

168 100

99 62.2 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

60000

50000

40000

30000

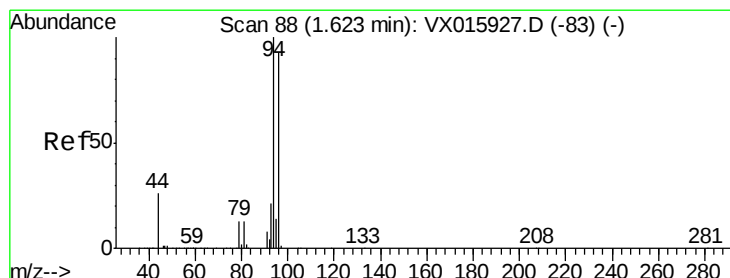
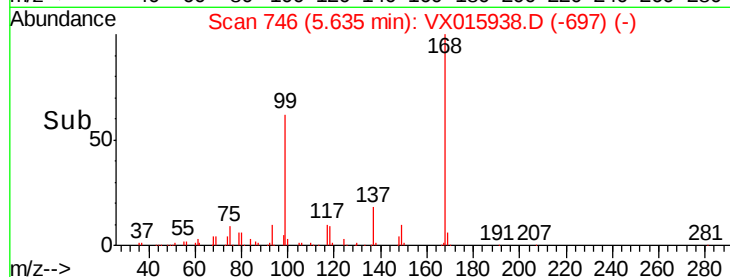
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.349 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX015938.D

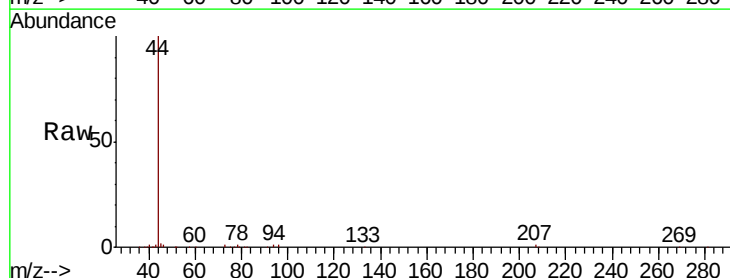
Acq: 24 Apr 2020 18:13

Tgt Ion: 94 Resp: 248

Ion Ratio Lower Upper

94 100

96 38.3 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

150

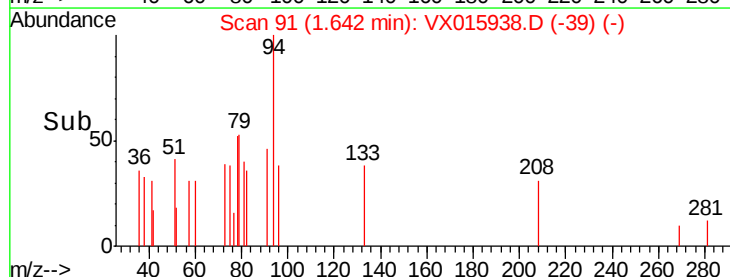
100

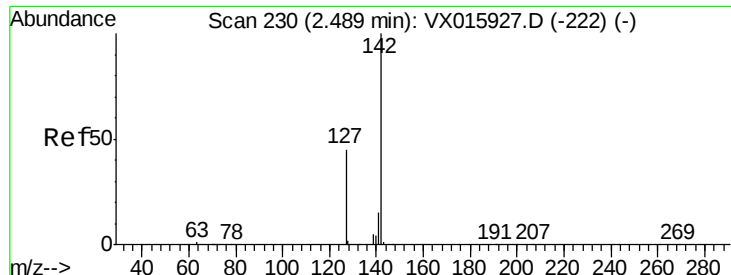
50

0

Time-->

1.60 1.65 1.70

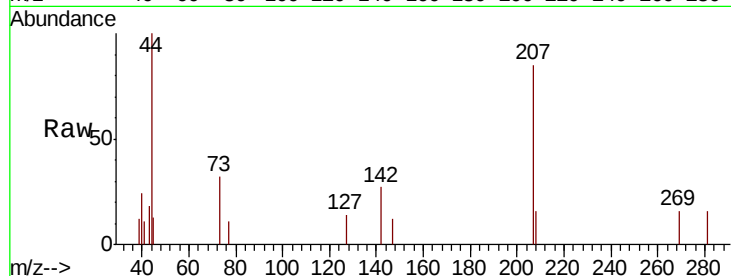




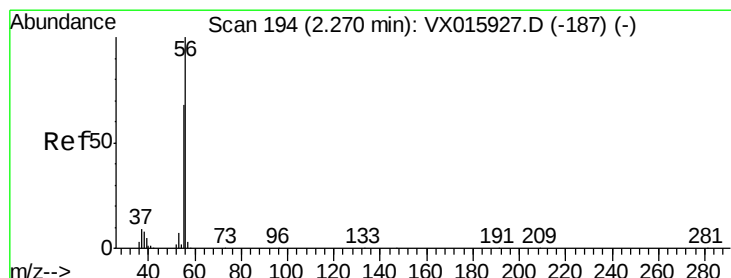
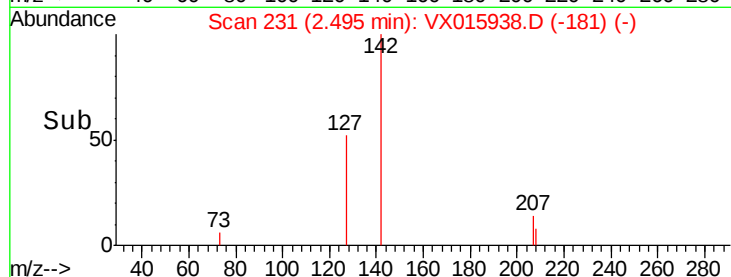
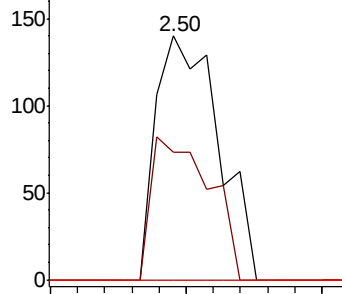
#10
Methyl Iodide
Concen: 4.932 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-200423

Tot Ion:142 Resp: 224
Ion Ratio Lower Upper
142 100
127 54.5 34.4 51.6#
141 0.0 11.5 17.3#

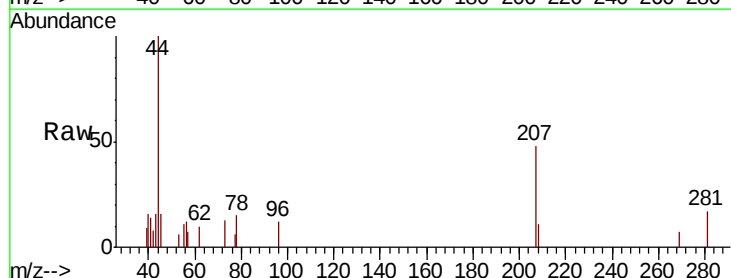


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

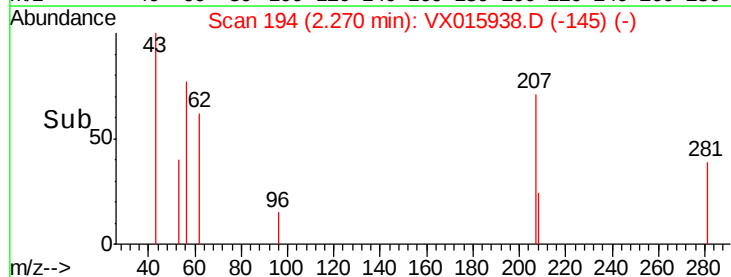
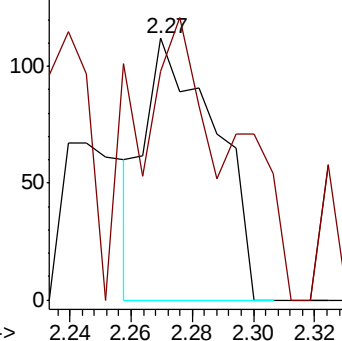


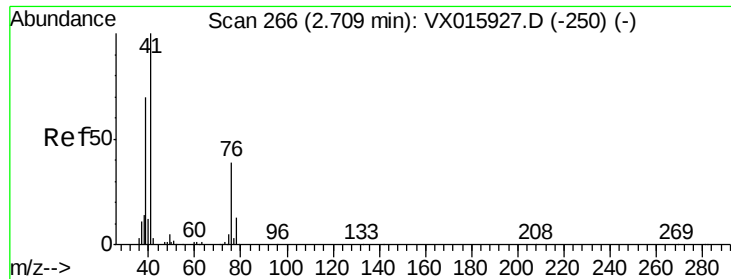
#13
Acrolein
Concen: 0.699 ug/l
RT: 2.27 min Scan# 194
Delta R.T. 0.00 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

Tgt Ion: 56 Resp: 179
Ion Ratio Lower Upper
56 100
55 103.9 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0

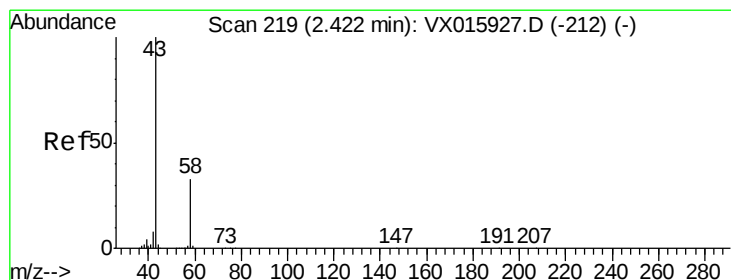
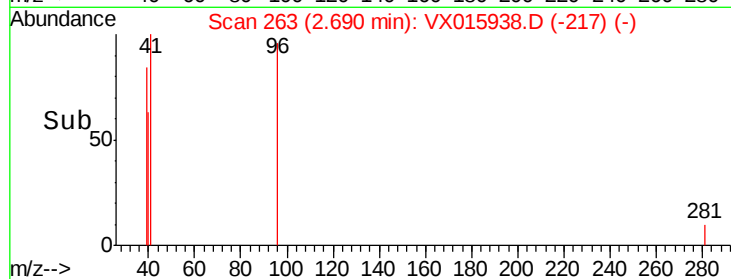
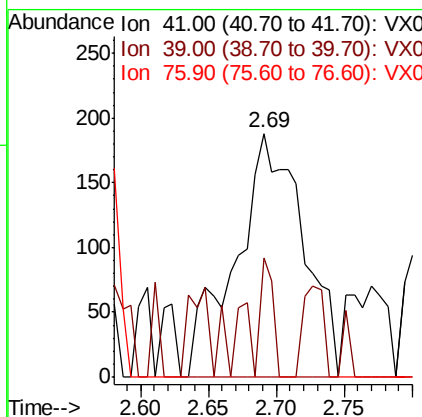
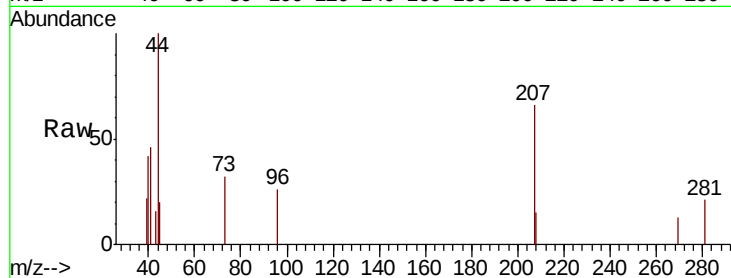




#14
Allvl chloride
Concen: 0.240 ug/l
RT: 2.69 min Scan# 263
Delta R.T. -0.02 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

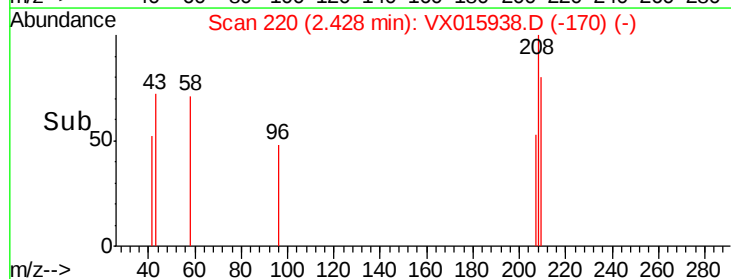
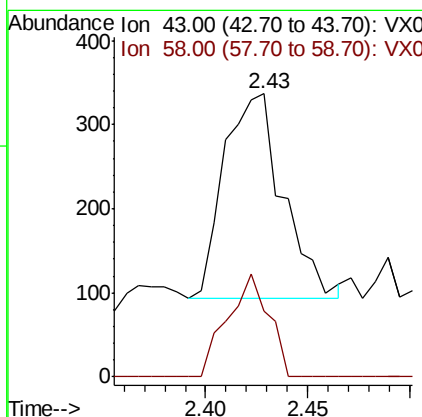
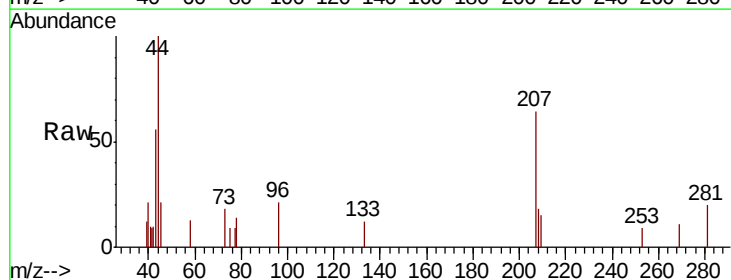
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-200423

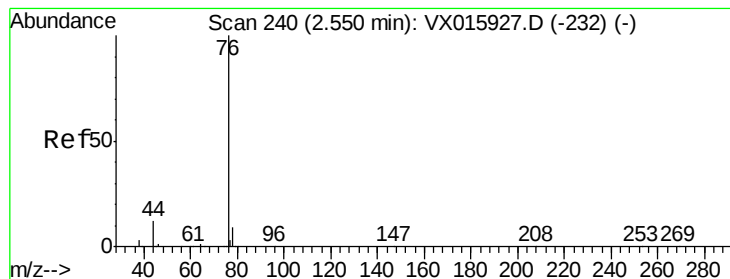
Tot Ion: 41 Resp: 654
Ion Ratio Lower Upper
41 100
39 9.3 51.6 77.4#
76 0.0 29.3 43.9#



#16
Acetone
Concen: 0.681 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

Tgt Ion: 43 Resp: 491
Ion Ratio Lower Upper
43 100
58 32.0 26.4 39.6





#17

Carbon Disulfide

Concen: 0.419 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

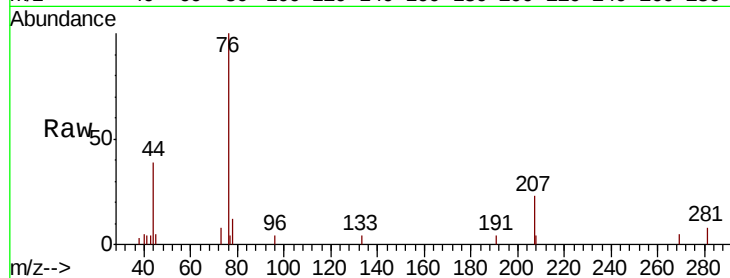
Z3-TB10-200423

Tot Ion: 76 Resp: 3043

Ion Ratio Lower Upper

76 100

78 11.7 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2000

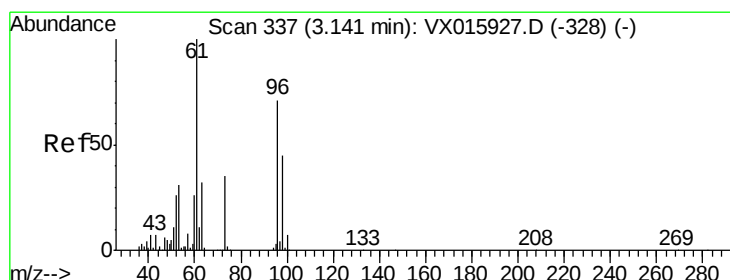
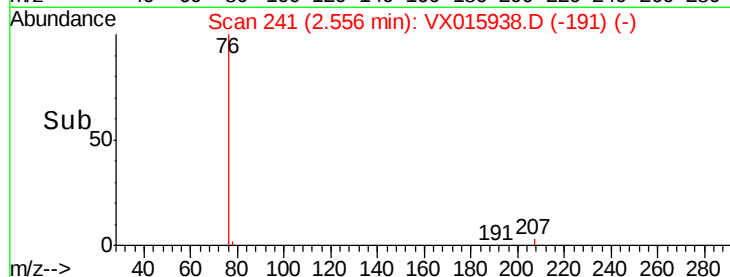
1500

1000

500

0

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.263 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

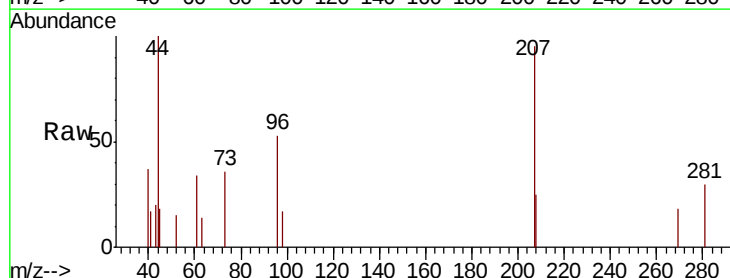
Tgt Ion: 96 Resp: 453

Ion Ratio Lower Upper

96 100

61 63.5 112.7 169.1#

98 33.0 51.0 76.4#



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

250

200

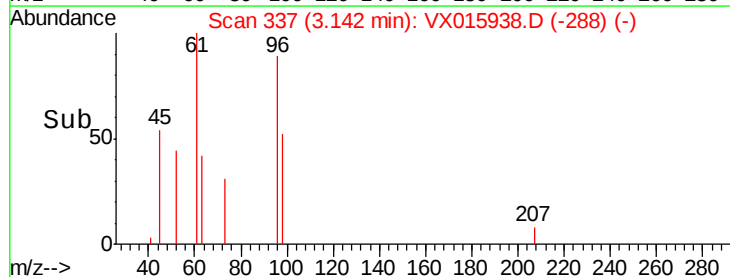
150

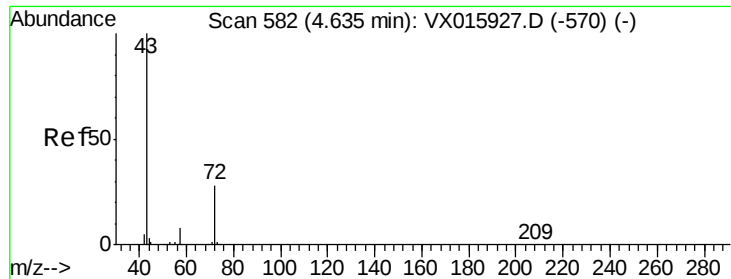
100

50

0

Time-->





#25

2-Butanone

Concen: 0.269 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

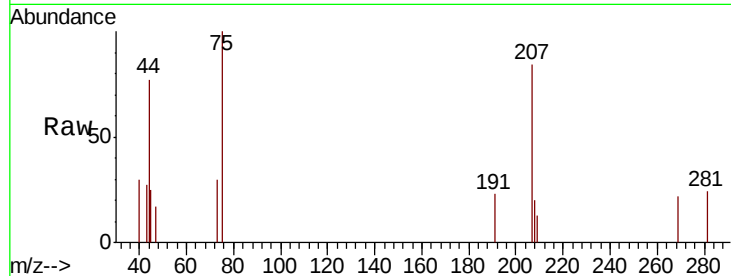
Z3-TB10-200423

Tot Ion: 43 Resp: 316

Ion Ratio Lower Upper

43 100

72 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

120

100

80

60

40

20

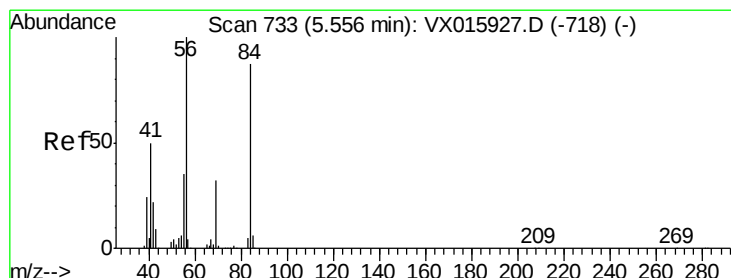
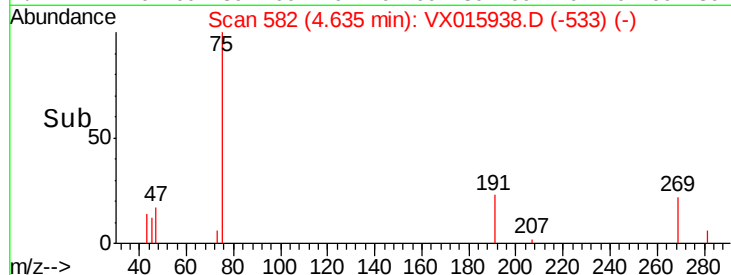
0

4.60

4.65

4.70

Time-->



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.08 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

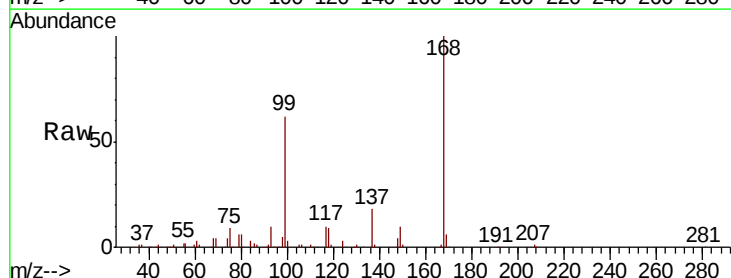
Tgt Ion: 56 Resp: 3487

Ion Ratio Lower Upper

56 100

69 172.3 25.4 38.0#

84 144.0 69.5 104.3#



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

2500

2000

1500

1000

500

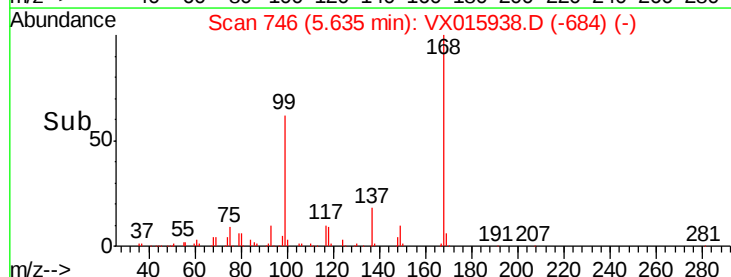
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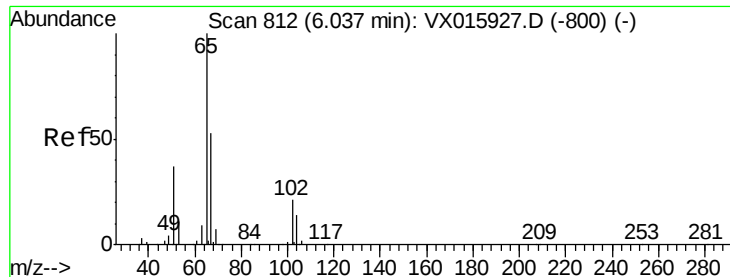
5.50

5.60

5.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 50.858 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

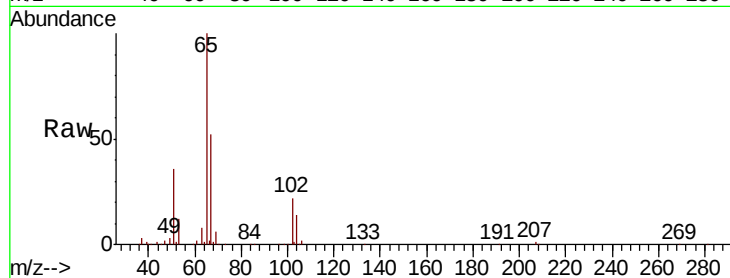
Z3-TB10-200423

Tot Ion: 65 Resp: 97707

Ion Ratio Lower Upper

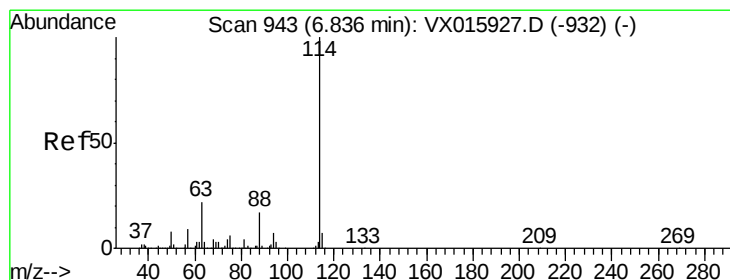
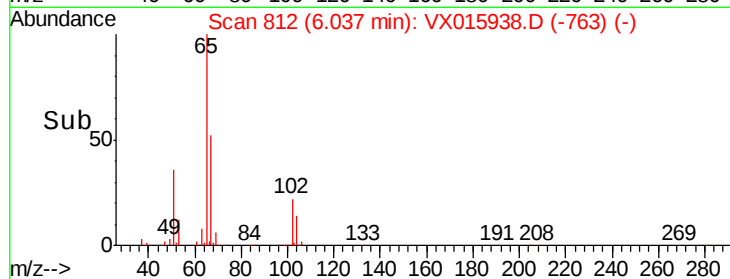
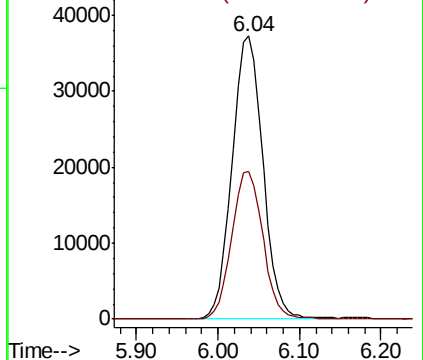
65 100

67 52.7 0.0 106.6



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: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

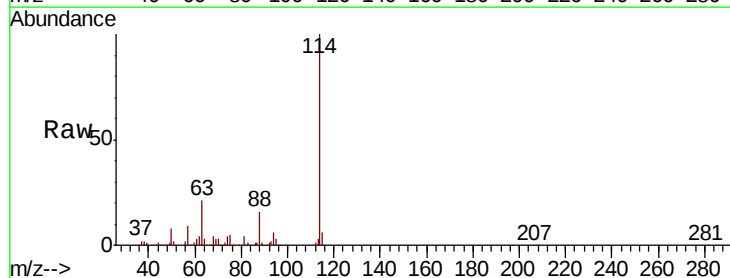
Tgt Ion: 114 Resp: 257558

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.4

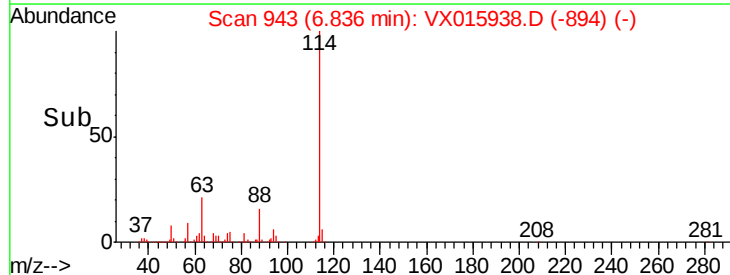
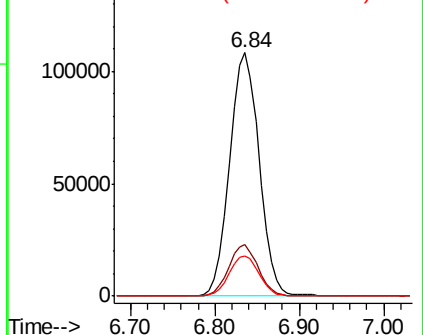
88 16.3 0.0 34.2

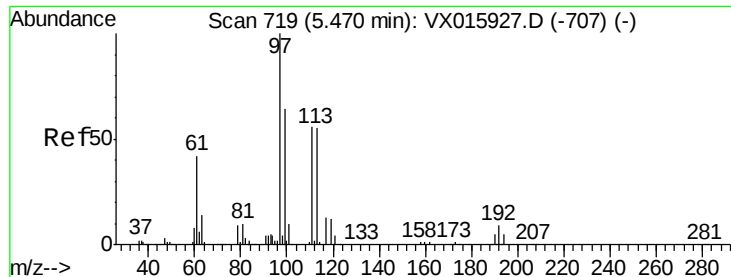


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

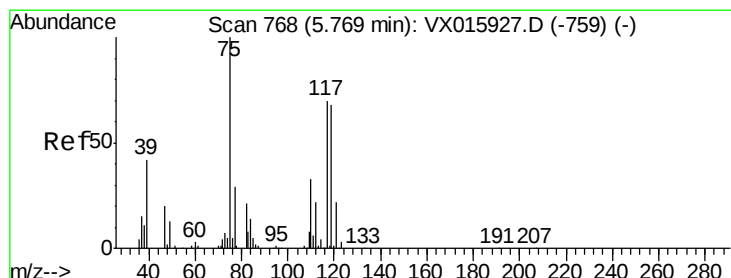
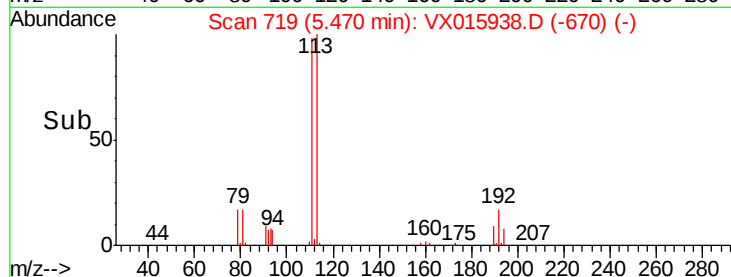
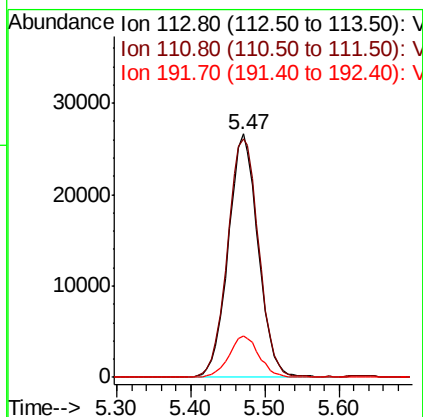
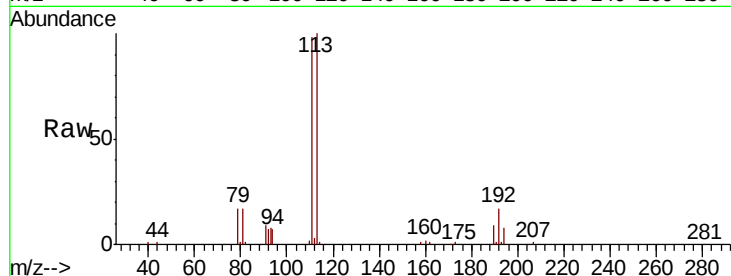




#35
 Dibromofluoromethane
 Concen: 53.085 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX015938.D
 Acq: 24 Apr 2020 18:13

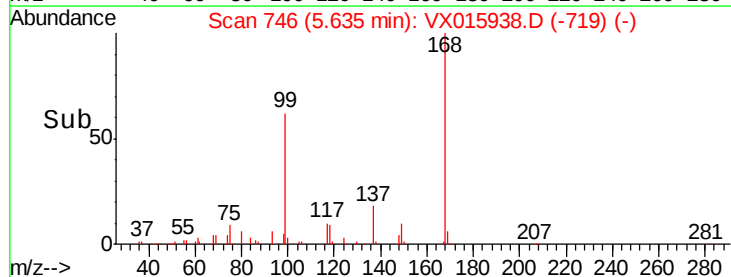
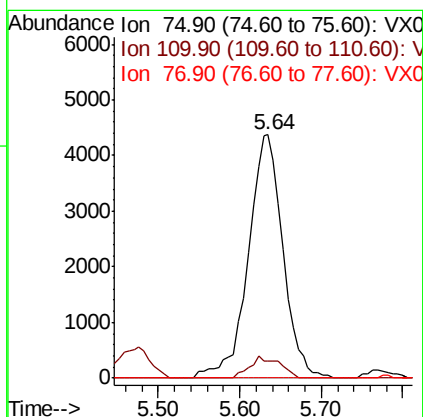
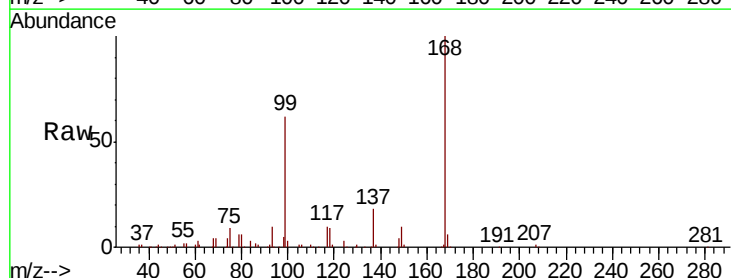
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-200423

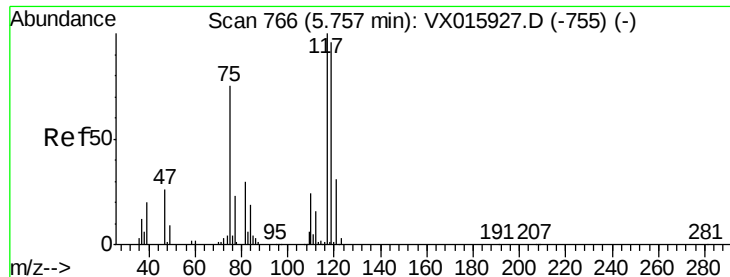
Tot Ion:113 Resp: 74568
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.2 121.8
 192 17.0 13.6 20.4



#36
 1,1-Dichloropropene
 Concen: 5.257 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX015938.D
 Acq: 24 Apr 2020 18:13

Tgt Ion: 75 Resp: 12923
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.1 51.3#
 77 0.0 25.0 37.4#

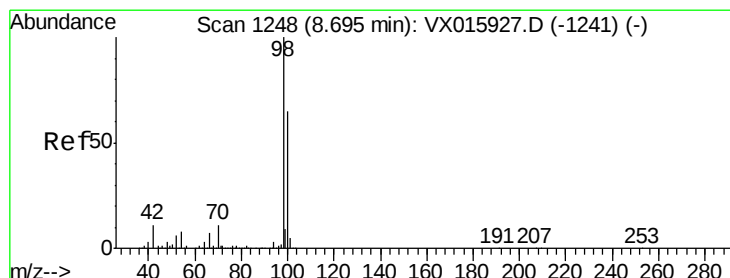
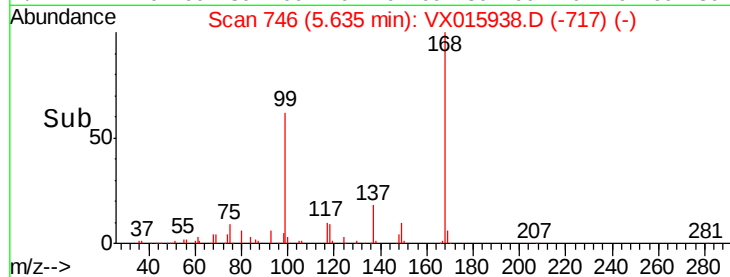
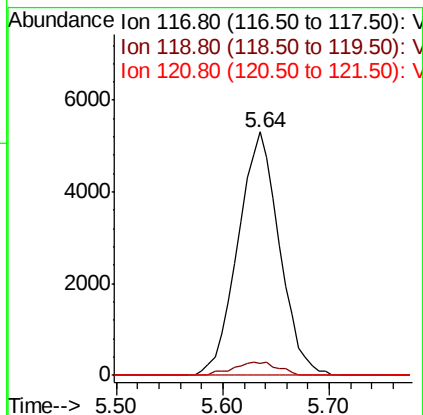
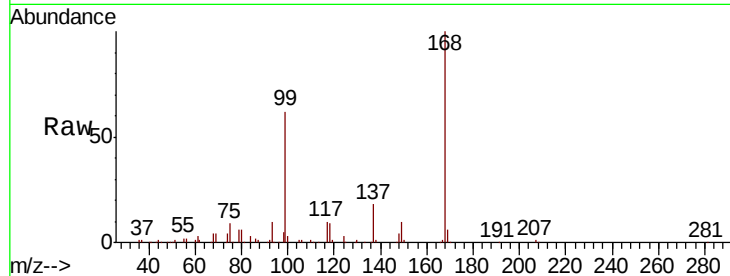




#38
Carbon Tetrachloride
Concen: 6.444 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

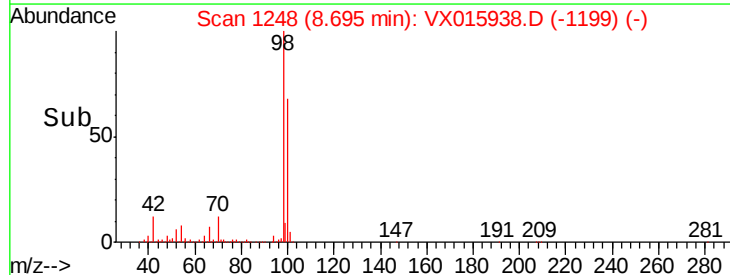
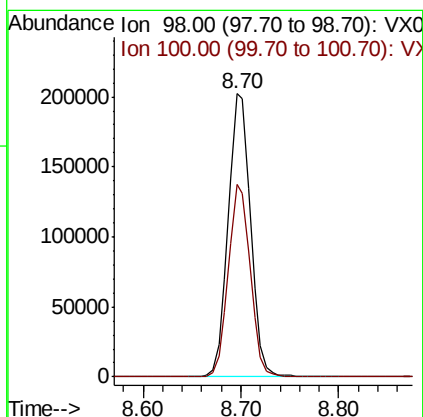
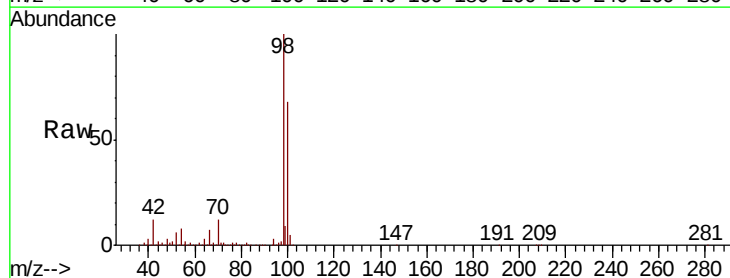
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-200423

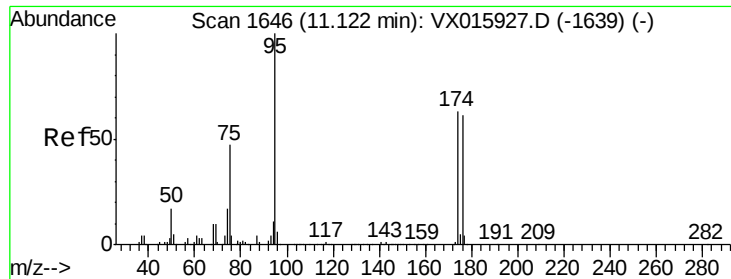
Tot Ion:117 Resp: 14474
Ion Ratio Lower Upper
117 100
119 4.9 77.0 115.6#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 54.062 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX015938.D
Acq: 24 Apr 2020 18:13

Tgt Ion: 98 Resp: 321506
Ion Ratio Lower Upper
98 100
100 66.8 53.0 79.4





#62

4-Bromofluorobenzene

Concen: 54.312 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-200423

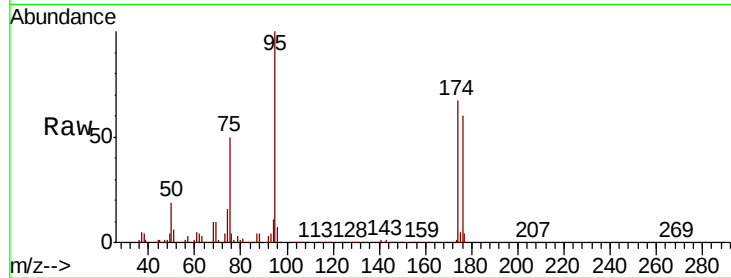
Tot Ion: 95 Resp: 131007

Ion Ratio Lower Upper

95 100

174 67.0 0.0 133.6

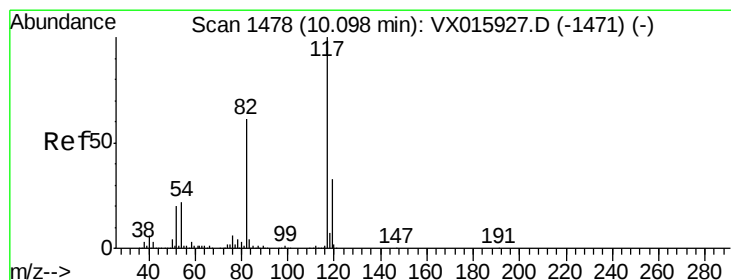
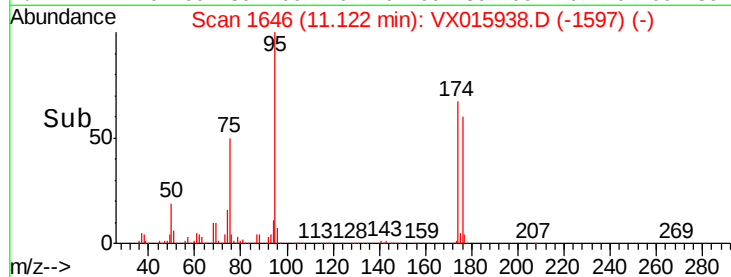
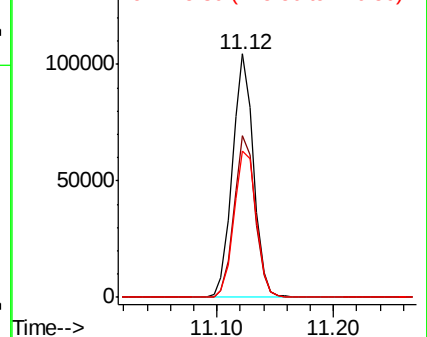
176 63.8 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VX015927.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX015927.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX015927.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

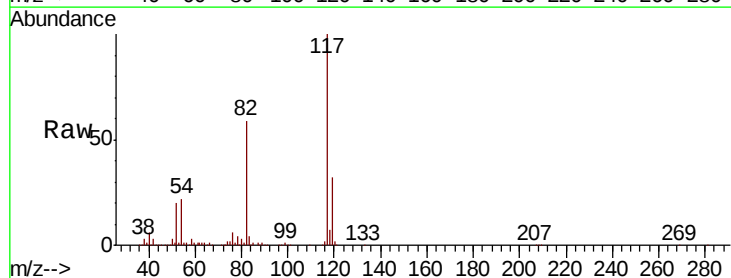
Tgt Ion: 117 Resp: 245751

Ion Ratio Lower Upper

117 100

82 59.3 48.5 72.7

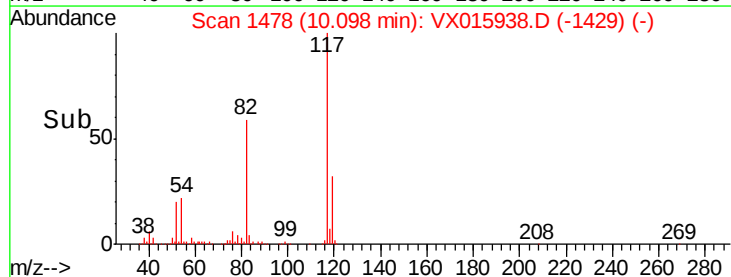
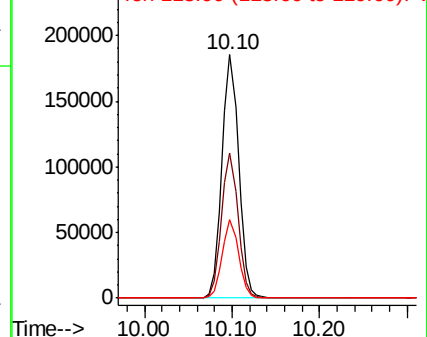
119 32.2 26.2 39.4

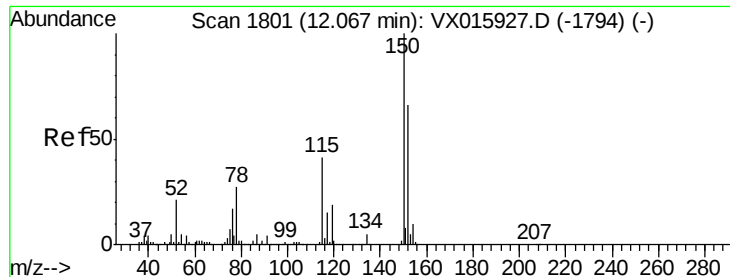


Abundance Ion 116.90 (116.60 to 117.60): VX015927.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX015927.D (-1471) (-)

Ion 118.90 (118.60 to 119.60): VX015927.D (-1471) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-200423

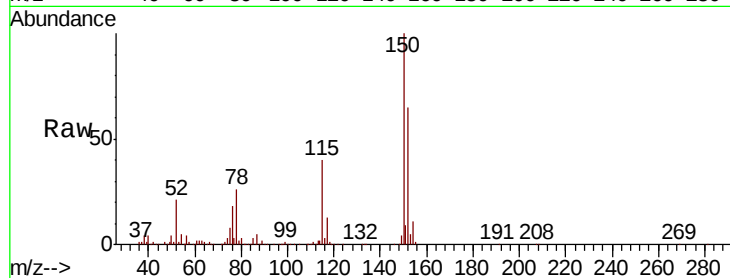
Tot Ion:152 Resp: 116250

Ion Ratio Lower Upper

152 100

115 65.1 44.1 132.4

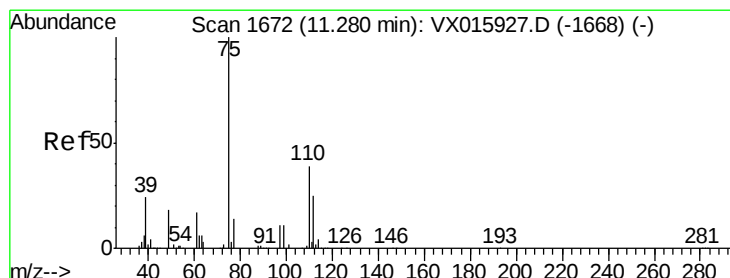
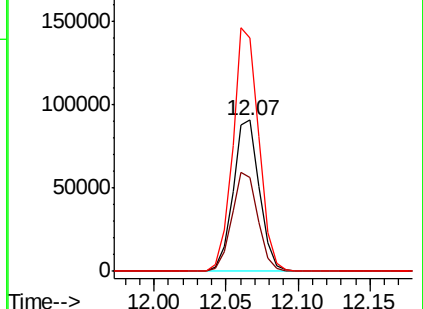
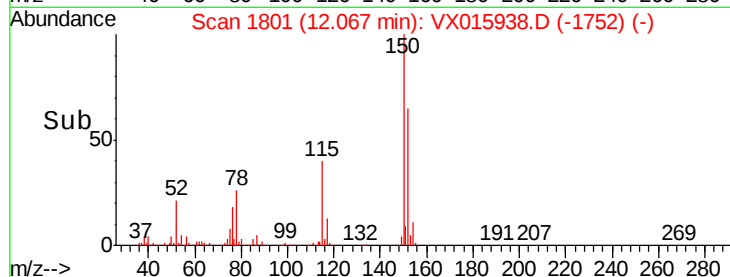
150 158.7 0.0 343.6



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: 26.387 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX015938.D

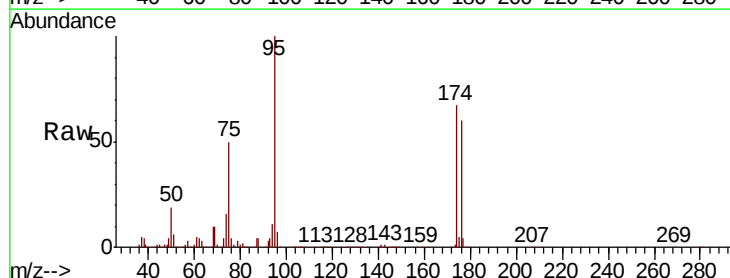
Acq: 24 Apr 2020 18:13

Tgt Ion: 75 Resp: 65800

Ion Ratio Lower Upper

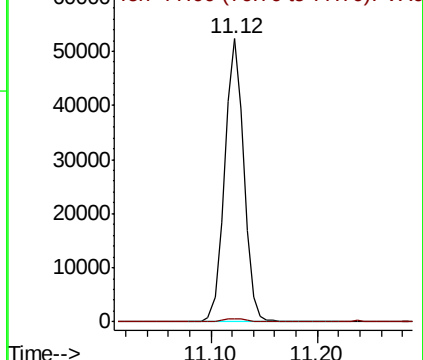
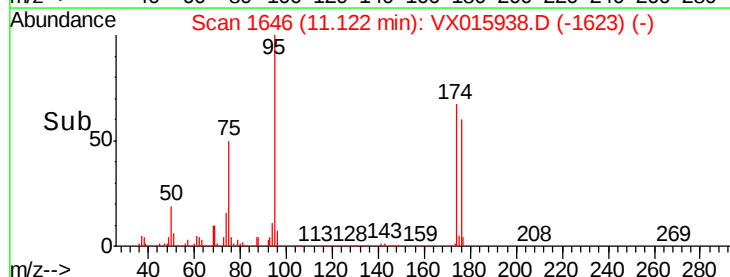
75 100

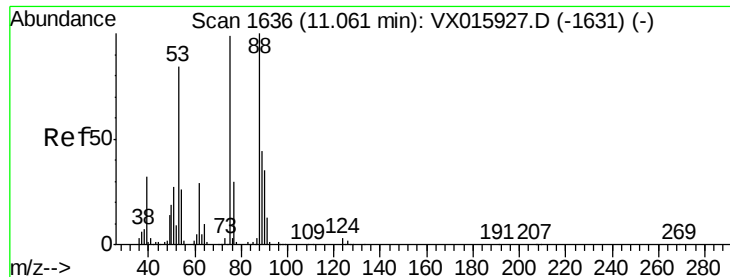
77 1.3 22.1 66.5#



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: 59.440 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

Z3-TB10-200423

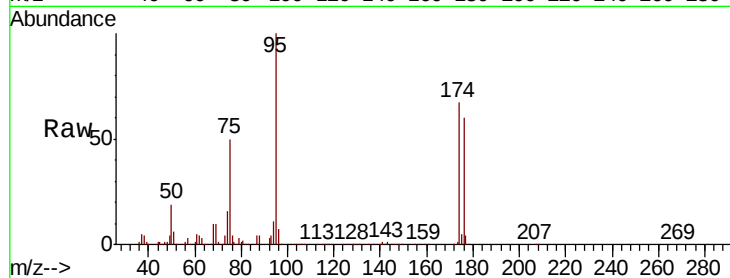
Tot Ion: 75 Resp: 65800

Ion Ratio Lower Upper

75 100

53 0.0 69.7 104.5#

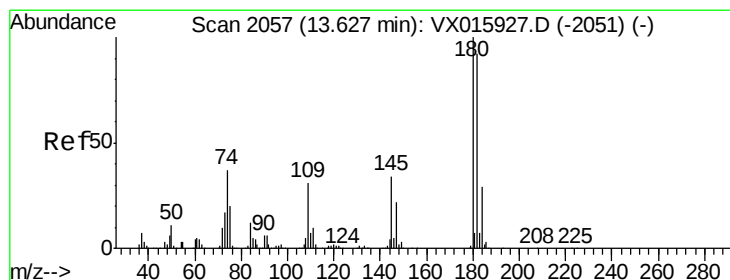
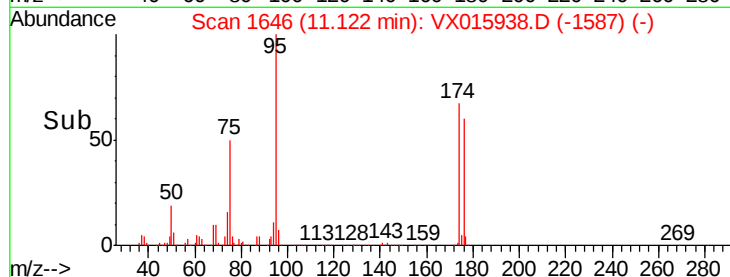
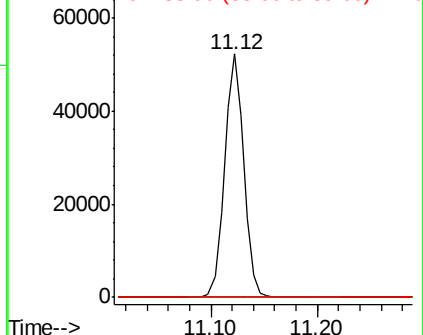
89 0.0 36.3 54.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.238 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

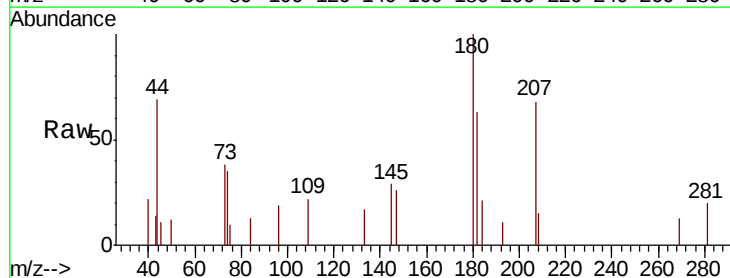
Tgt Ion: 180 Resp: 537

Ion Ratio Lower Upper

180 100

182 87.3 47.6 142.9

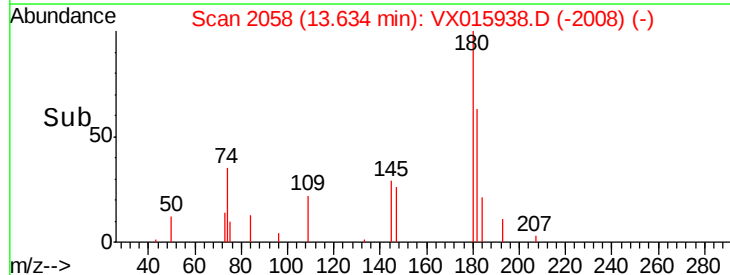
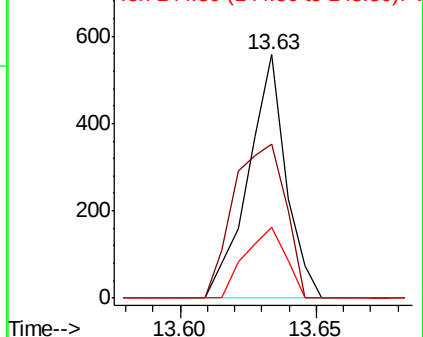
145 31.1 17.3 52.0

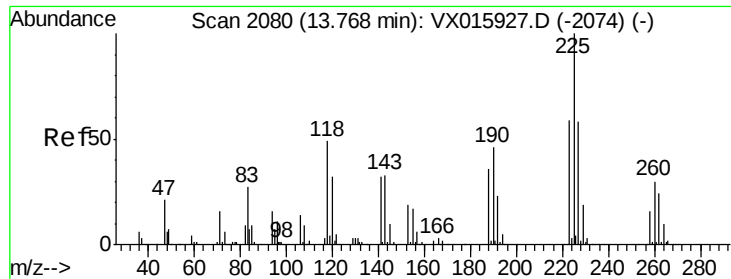


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.247 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX015938.D

Acq: 24 Apr 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-200423

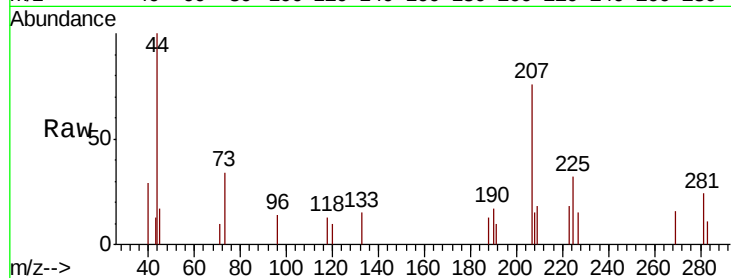
Tot Ion:225 Resp: 198

Ion Ratio Lower Upper

225 100

223 34.3 30.6 91.6

227 60.6 32.0 96.2



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

