

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072020\
 Data File : VX017437.D
 Acq On : 20 Jul 2020 16:28
 Operator : JC/SP
 Sample : L3329-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LT-4

Quant Time: Jul 21 02:04:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	249737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	432646	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	457570	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	257143	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	169436	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	
35) Dibromofluoromethane	5.46	113	147486	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	8.70	98	530953	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	11.12	95	235486	56.39	ug/l	0.00
Spiked Amount			Recovery	=	112.78%	

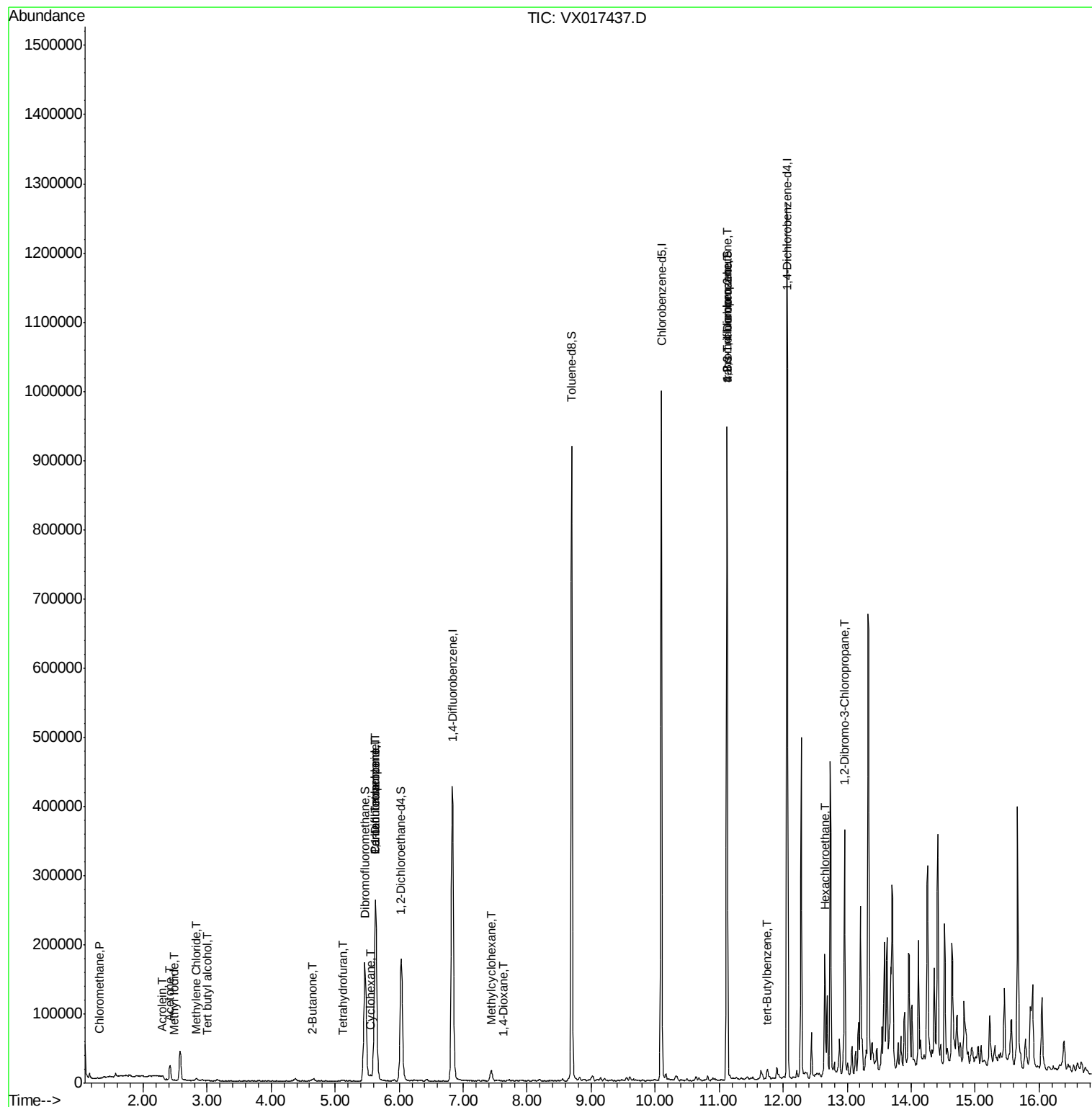
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	682	0.287	ug/l #	64
10) Methyl Iodide	2.47	142	52	2.390	ug/l #	39
11) Tert butyl alcohol	3.00	59	387	0.733	ug/l	98
13) Acrolein	2.29	56	150	0.518	ug/l #	49
16) Acetone	2.42	43	23970	21.436	ug/l	98
20) Methylene Chloride	2.84	84	1415	0.519	ug/l	84
25) 2-Butanone	4.65	43	496	0.279	ug/l #	81
29) Tetrahydrofuran	5.12	42	1456	1.266	ug/l #	76
31) Cyclohexane	5.56	56	4850	1.344	ug/l #	88
36) 1,1-Dichloropropene	5.63	75	18552	4.662	ug/l #	51
38) Carbon Tetrachloride	5.63	117	24586	5.277	ug/l #	19
39) Methylcyclohexane	7.44	83	6650	1.539	ug/l	87
49) 1,4-Dioxane	7.63	88	25	0.387	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	115824	24.376	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	115824	61.836	ug/l #	11
83) tert-Butylbenzene	11.76	119	5108	0.386	ug/l	89
90) Hexachloroethane	12.65	117	8153	2.931	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	12.96	75	1479	1.145	ug/l #	1

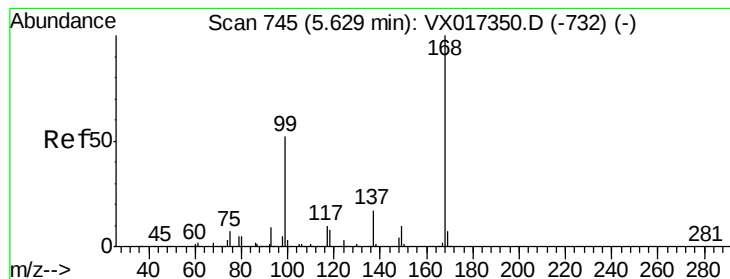
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampled :
LT-4

Quant Time: Jul 21 02:04:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 14 02:59:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

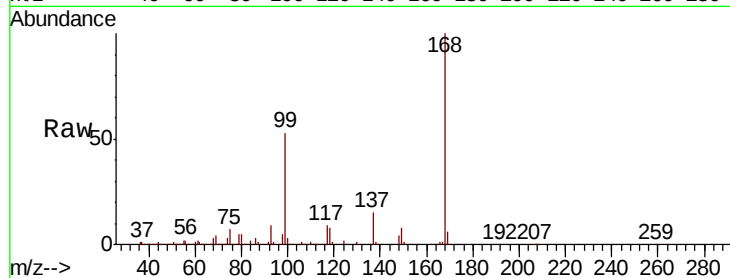
LT-4

Tot Ion:168 Resp: 249737

Ion Ratio Lower Upper

168 100

99 53.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

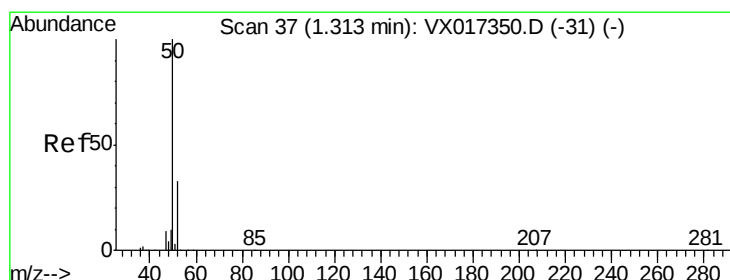
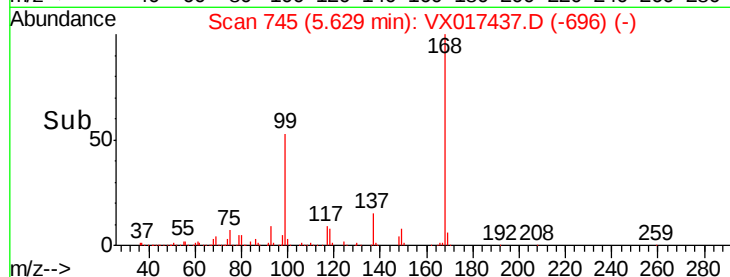
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017437.D

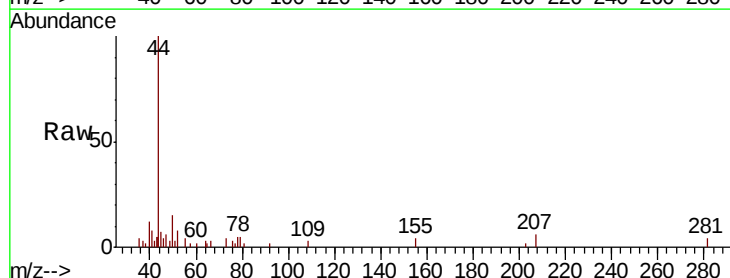
Acq: 20 Jul 2020 16:28

Tgt Ion: 50 Resp: 682

Ion Ratio Lower Upper

50 100

52 53.7 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

400

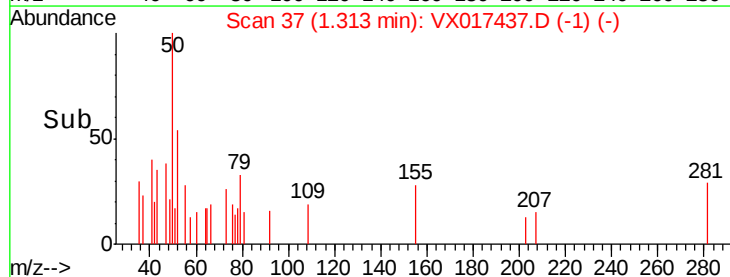
300

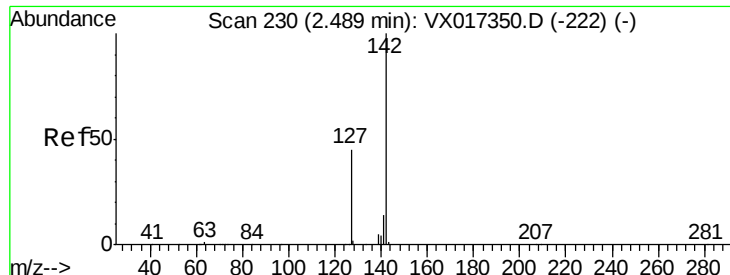
200

100

0

Time-->

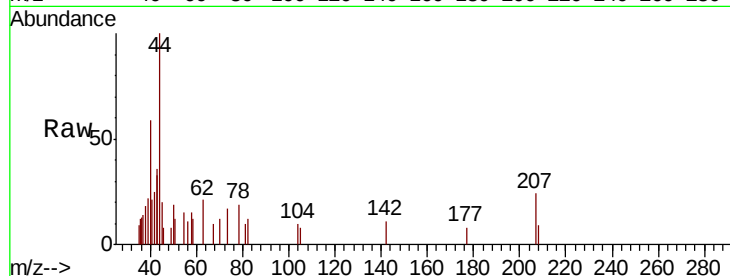




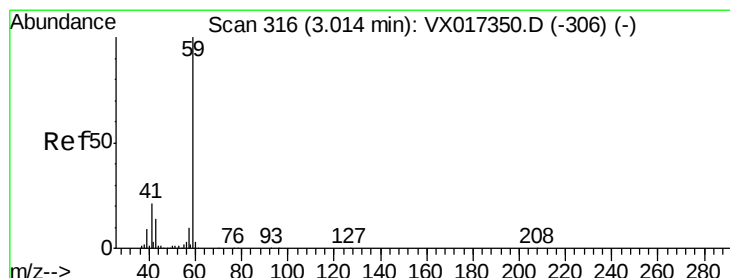
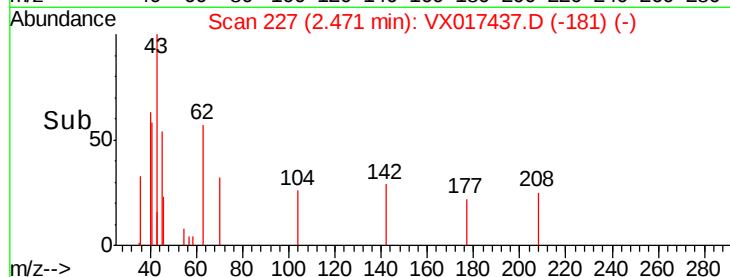
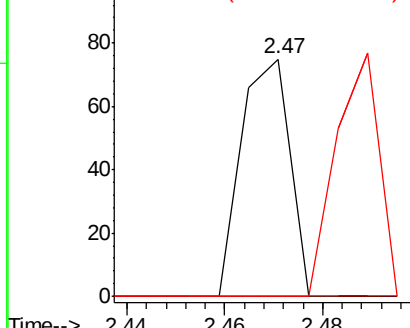
#10
Methvl Iodide
Concen: 2.390 ug/l
RT: 2.47 min Scan# 227
Delta R.T. -0.02 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

Instrument :
MSVOA_X
ClientSampled :
LT-4

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.8	55.2#
141	0.0	11.4	17.0#

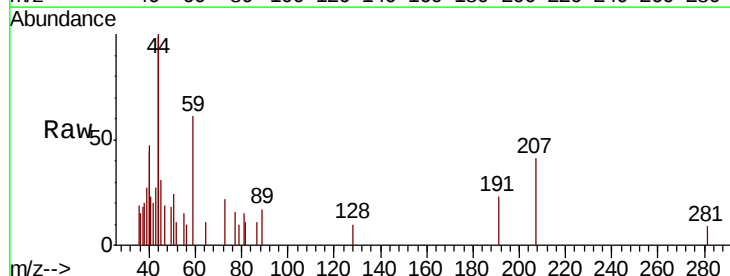


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

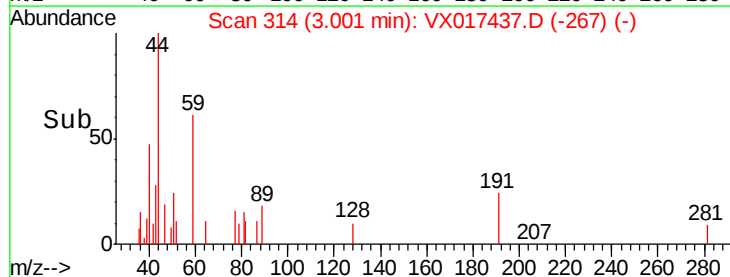
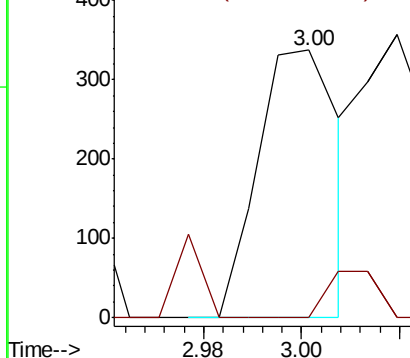


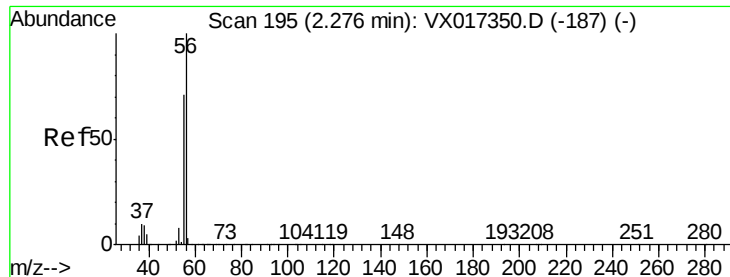
#11
Tert butyl alcohol
Concen: 0.733 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.518 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

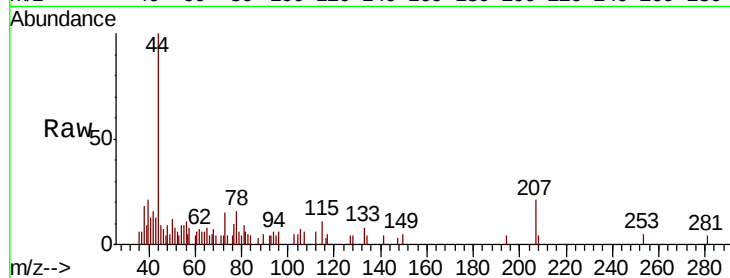
LT-4

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

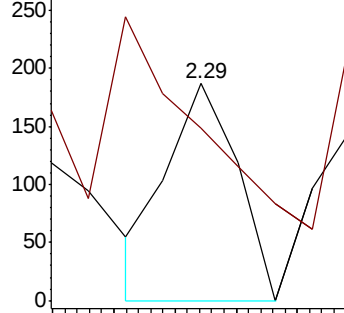
56 100

55 113.3 57.1 85.7#

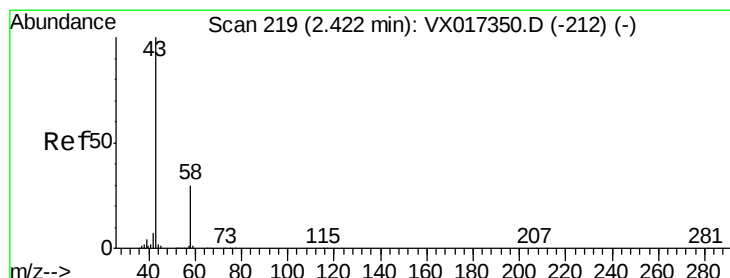
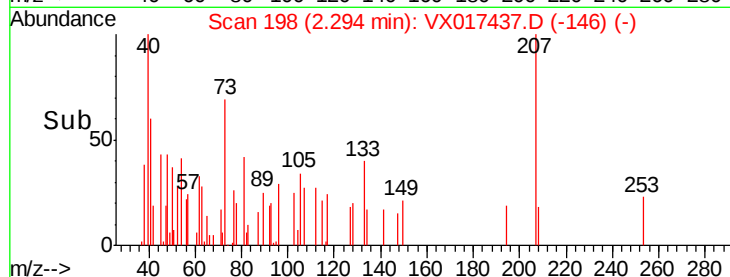


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 21.436 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017437.D

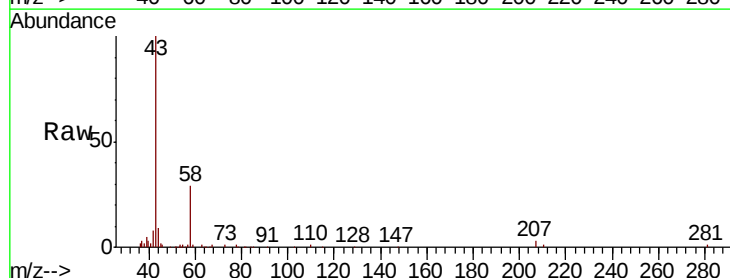
Acq: 20 Jul 2020 16:28

Tgt Ion: 43 Resp: 23970

Ion Ratio Lower Upper

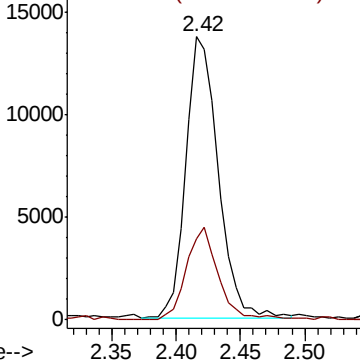
43 100

58 29.1 24.2 36.2

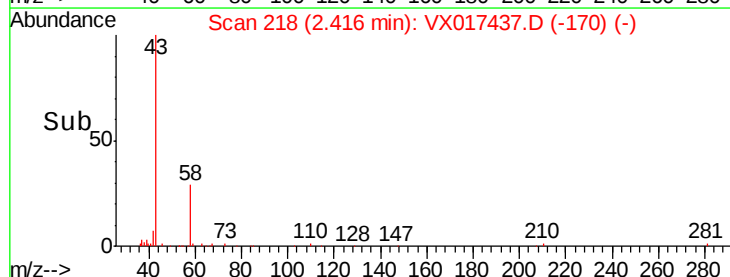


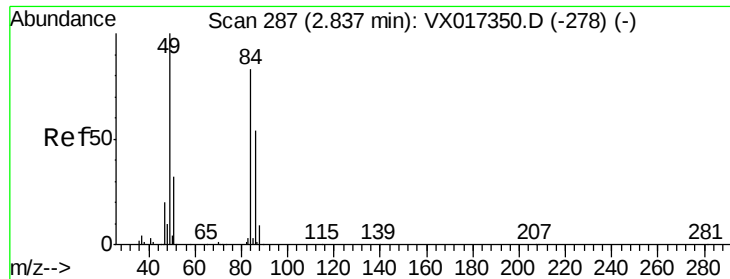
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

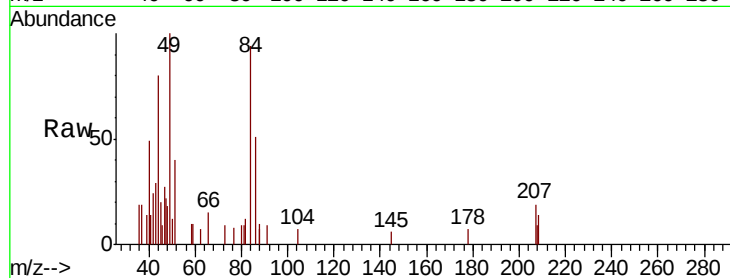




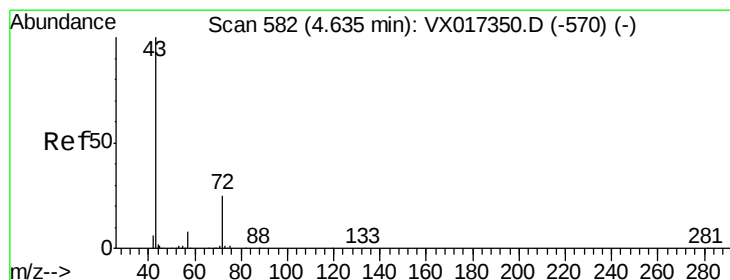
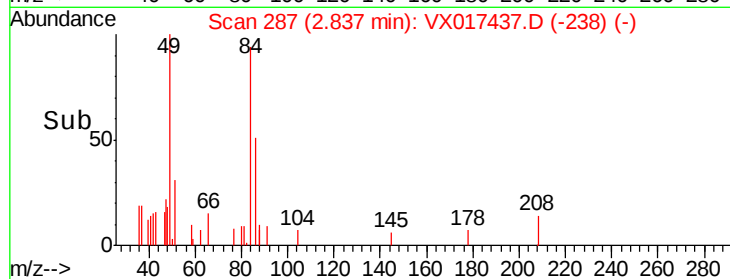
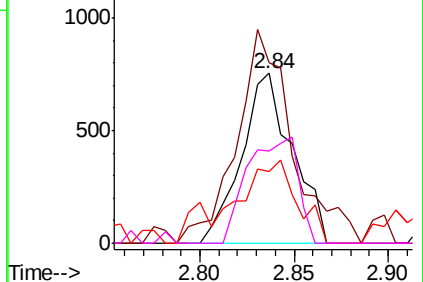
#20
Methvlene Chloride
Concen: 0.519 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

Instrument :
MSVOA_X
ClientSampled :
LT-4

Tot Ion:	84	Resp:	1415
Ion	Ratio	Lower	Upper
84	100		
49	96.6	95.8	143.8
51	42.3	31.0	46.4
86	54.3	51.8	77.8

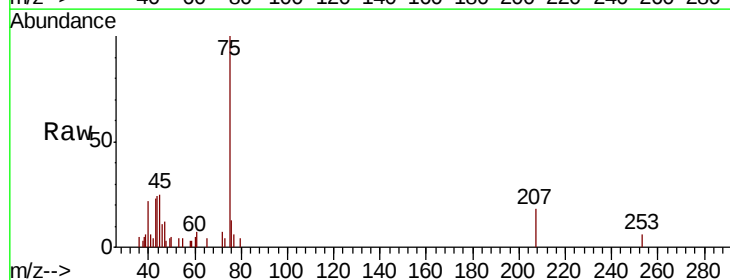


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

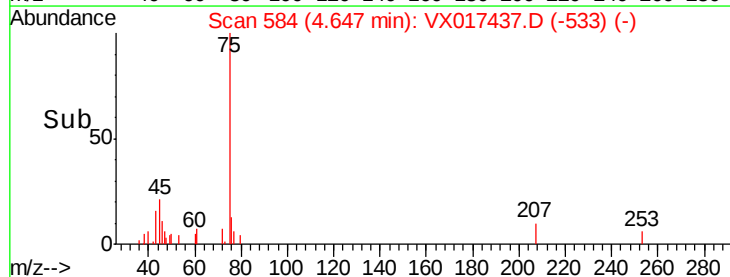
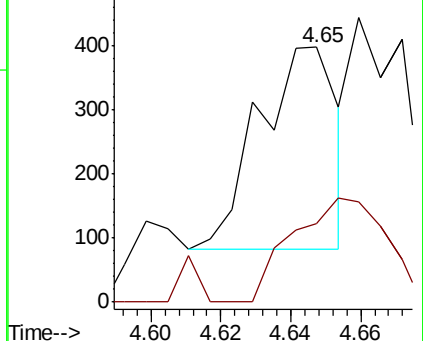


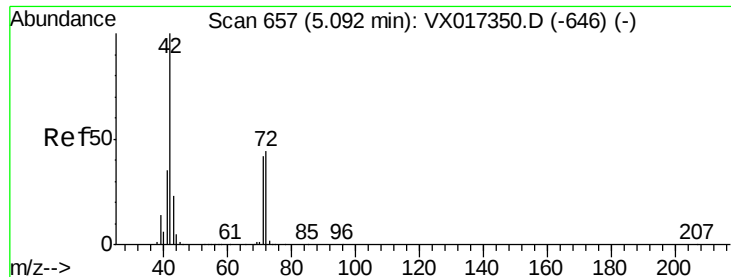
#25
2-Butanone
Concen: 0.279 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

Tgt Ion:	43	Resp:	496
Ion	Ratio	Lower	Upper
43	100		
72	15.8	20.4	30.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.266 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

LT-4

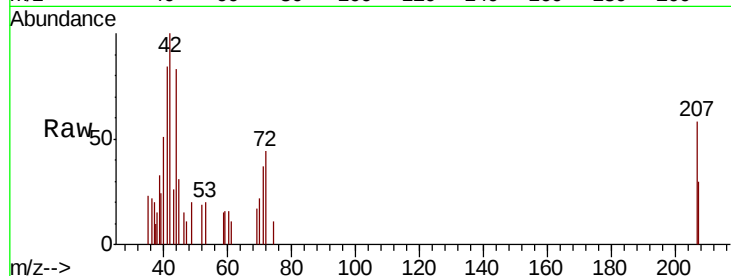
Tot Ion: 42 Resp: 1456

Ion Ratio Lower Upper

42 100

72 31.0 37.2 55.8#

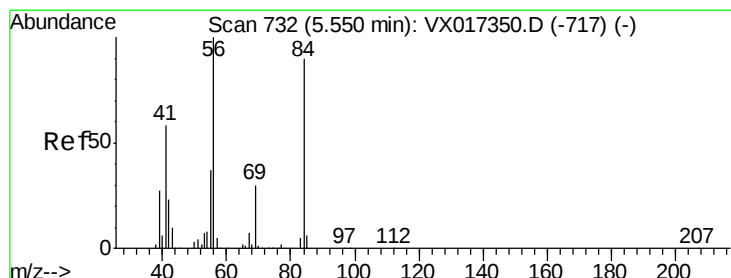
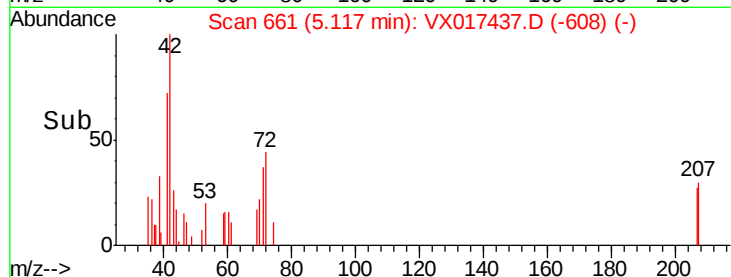
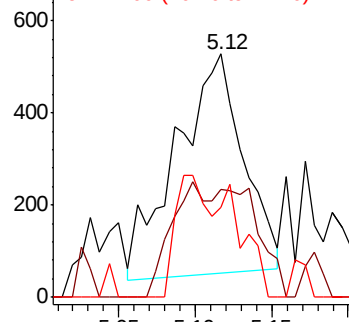
71 27.3 34.4 51.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.344 ug/l

RT: 5.56 min Scan# 733

Delta R.T. 0.01 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

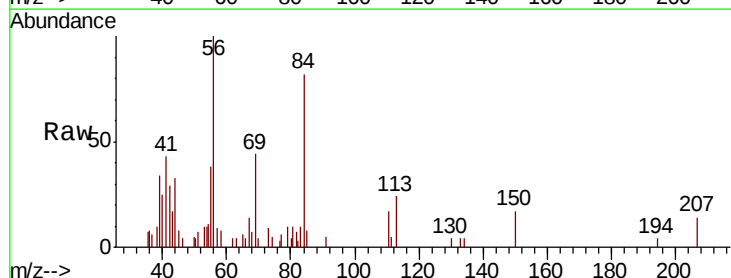
Tgt Ion: 56 Resp: 4850

Ion Ratio Lower Upper

56 100

69 43.1 23.7 35.5#

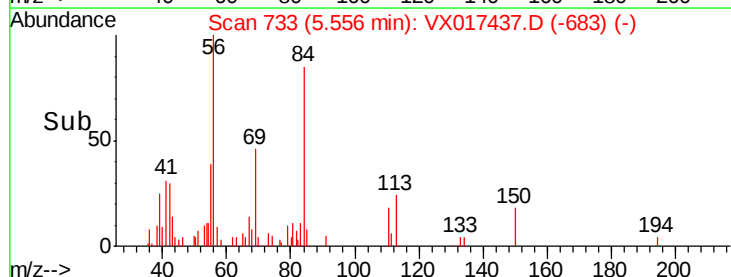
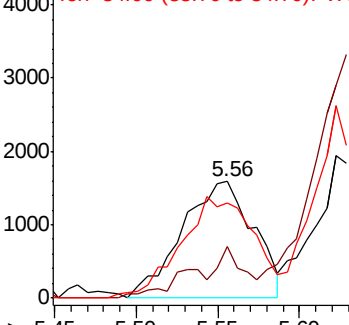
84 82.5 71.8 107.6

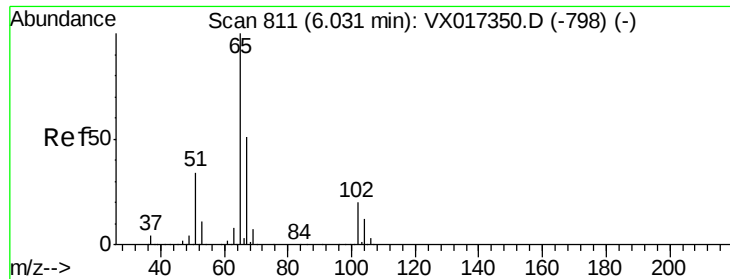


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.057 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

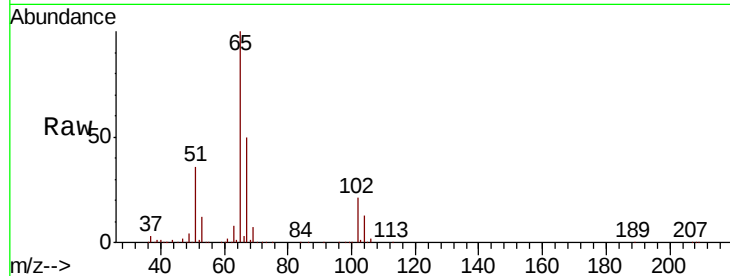
LT-4

Tot Ion: 65 Resp: 169436

Ion Ratio Lower Upper

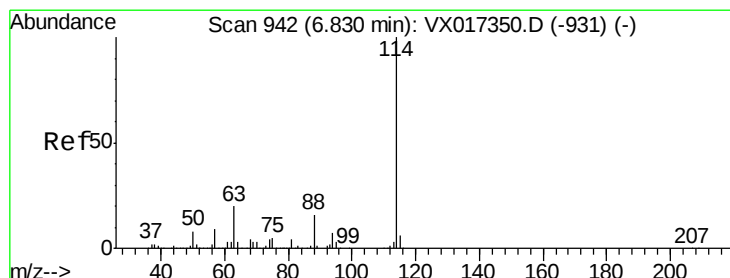
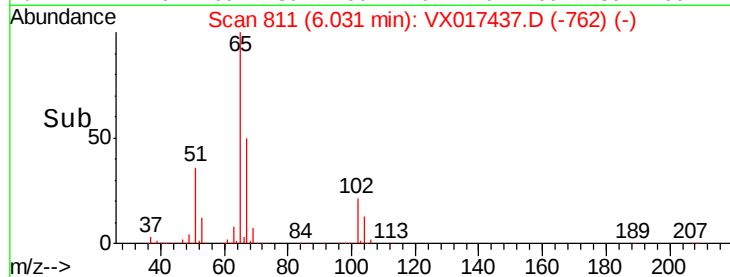
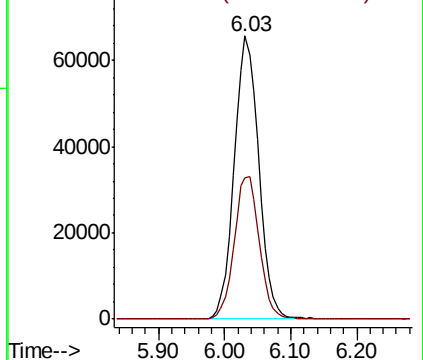
65 100

67 51.2 0.0 101.6



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

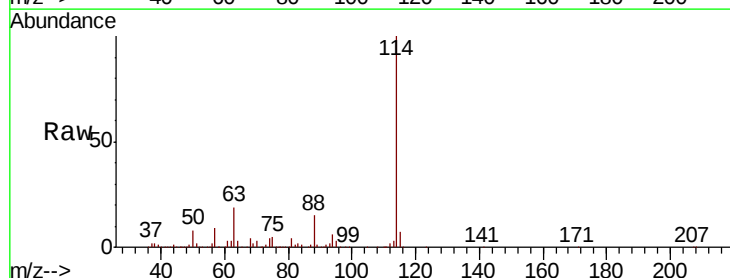
Tgt Ion: 114 Resp: 432646

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

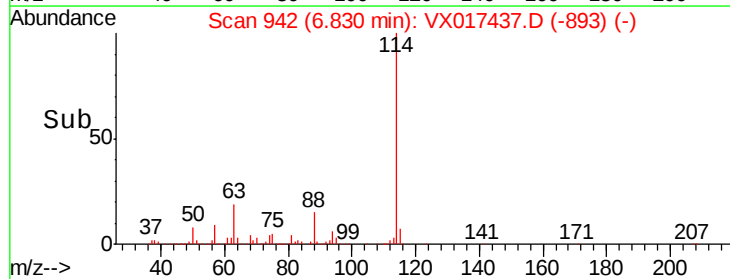
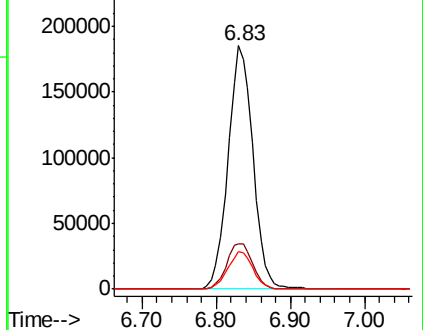
88 15.3 0.0 32.8

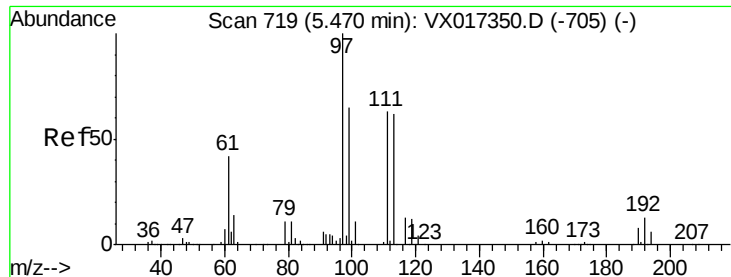


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

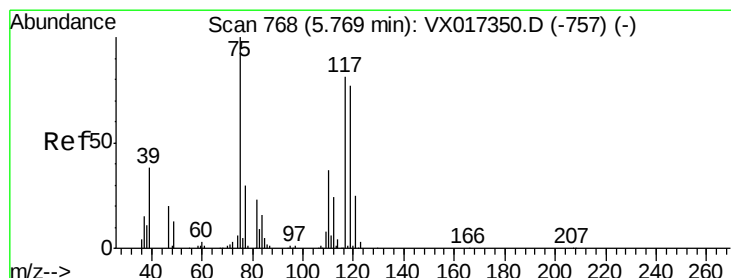
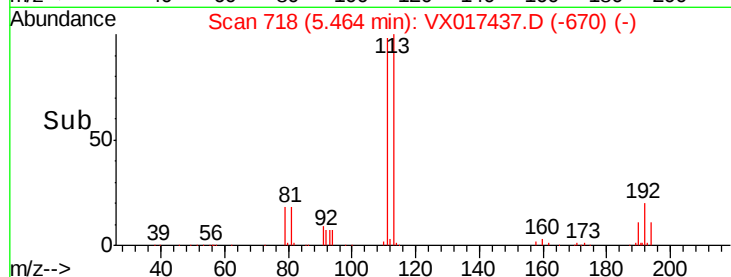
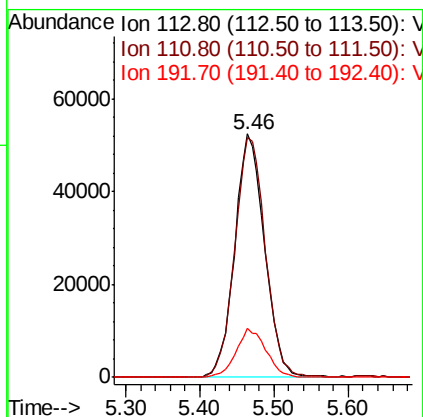
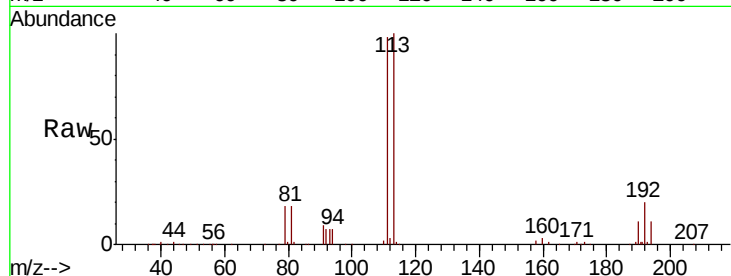




#35
 Dibromofluoromethane
 Concen: 50.606 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX017437.D
 Acq: 20 Jul 2020 16:28

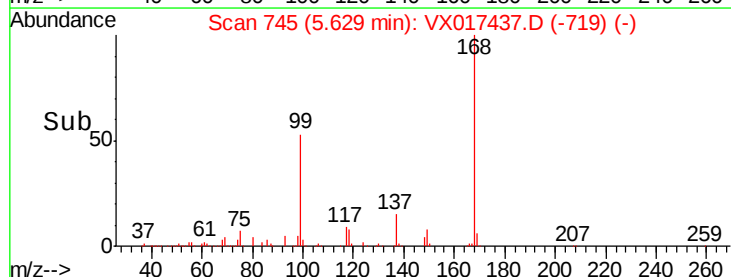
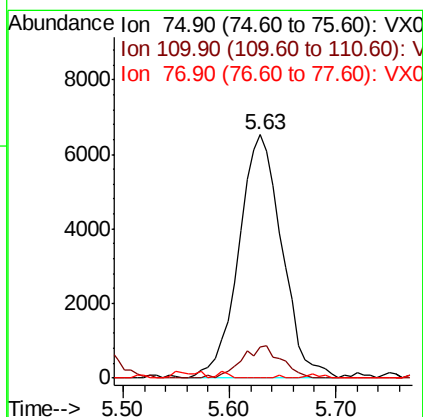
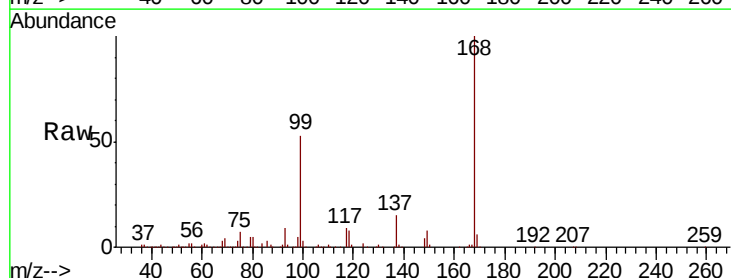
Instrument :
 MSVOA_X
 ClientSampleId :
 LT-4

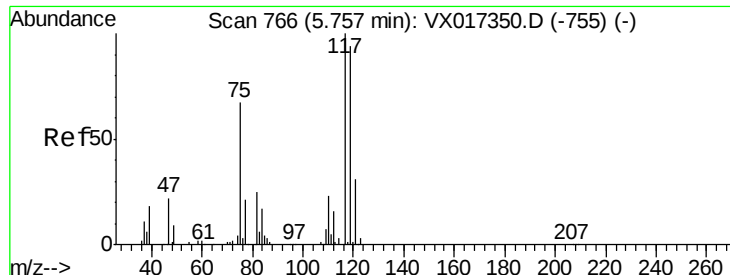
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.4	123.6
192	20.2	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 4.662 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017437.D
 Acq: 20 Jul 2020 16:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.1	18.6	55.8#
77	0.1	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.277 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

LT-4

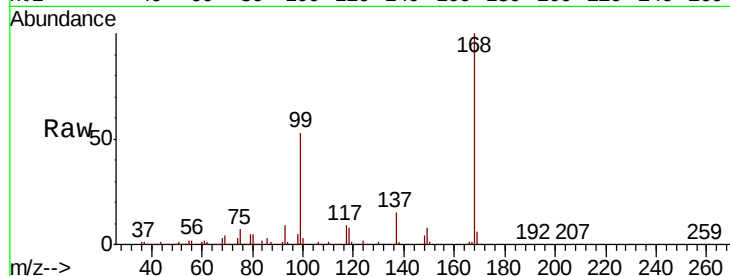
Tot Ion:117 Resp: 24586

Ion Ratio Lower Upper

117 100

119 8.0 74.7 112.1#

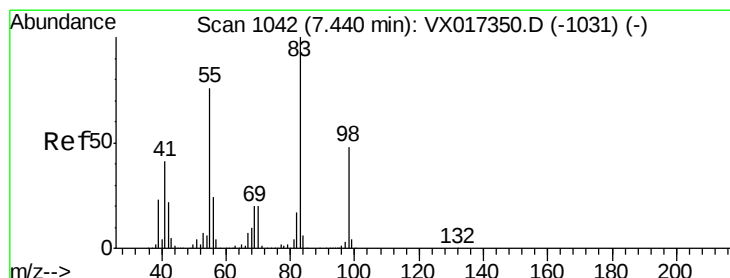
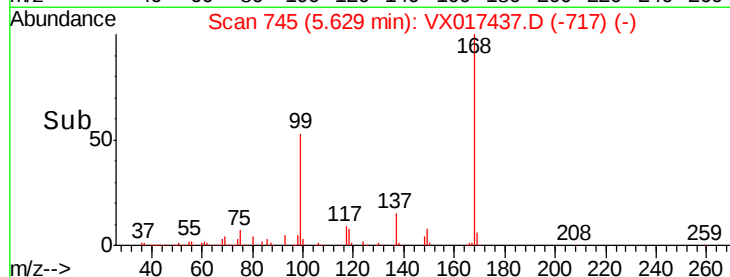
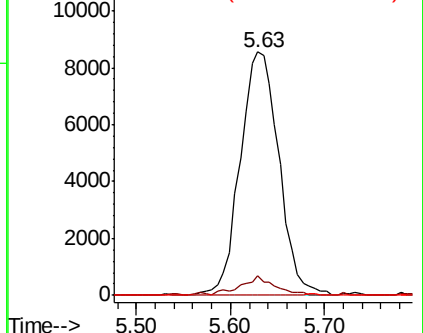
121 0.0 24.5 36.7#



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



#39

Methylcyclohexane

Concen: 1.539 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

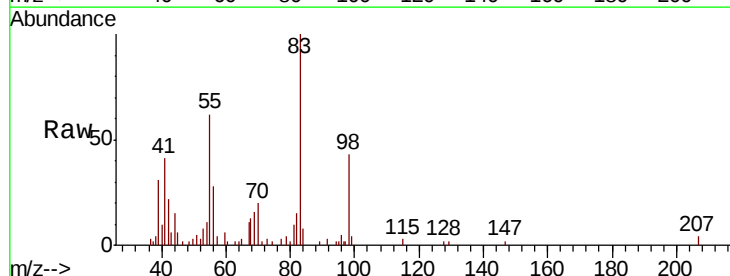
Tgt Ion: 83 Resp: 6650

Ion Ratio Lower Upper

83 100

55 61.8 61.2 91.8

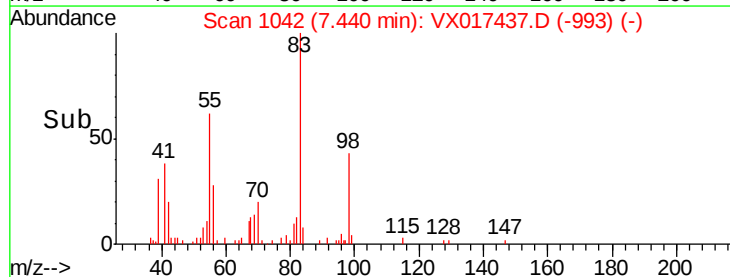
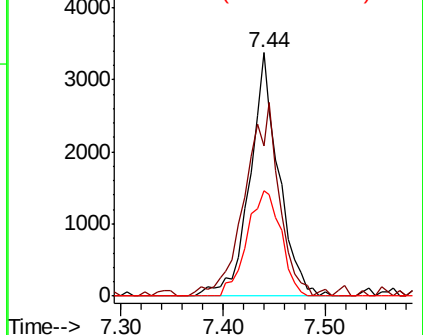
98 43.3 38.1 57.1

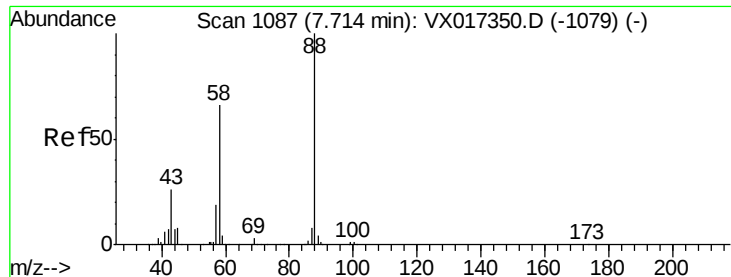


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

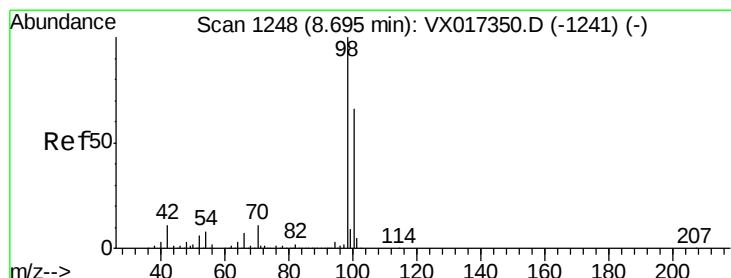
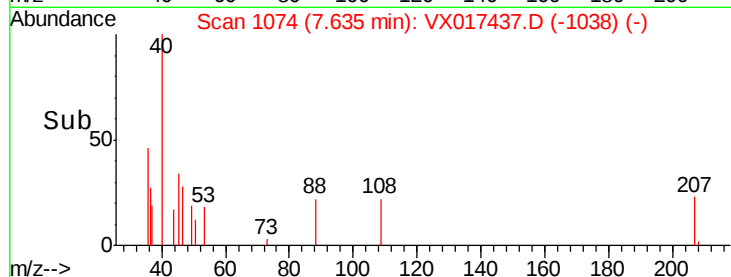
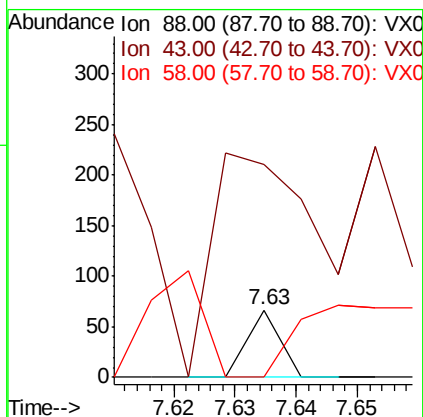
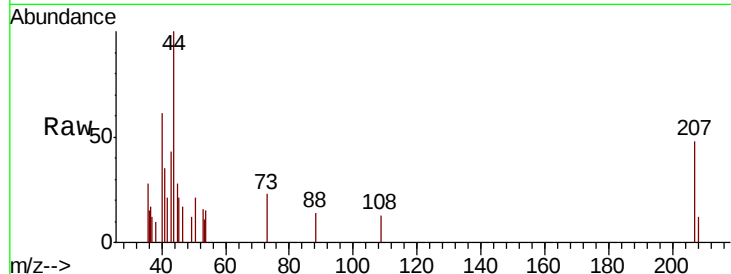




#49
1,4-Dioxane
Concen: 0.387 ug/l
RT: 7.63 min Scan# 1074
Delta R.T. -0.08 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

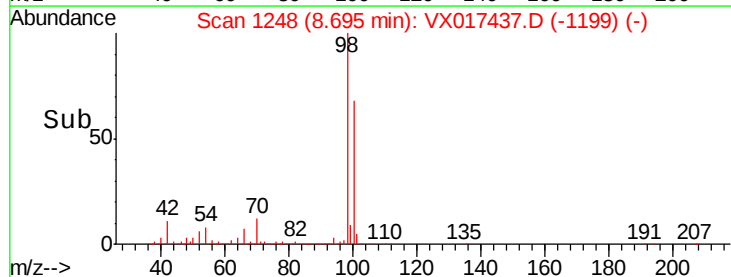
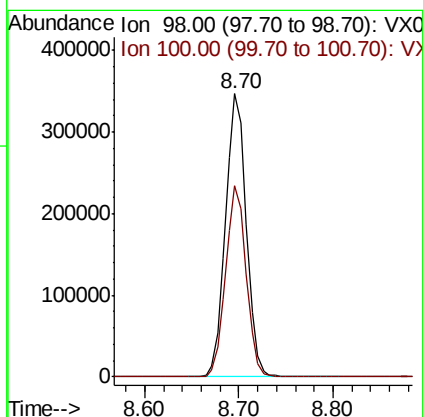
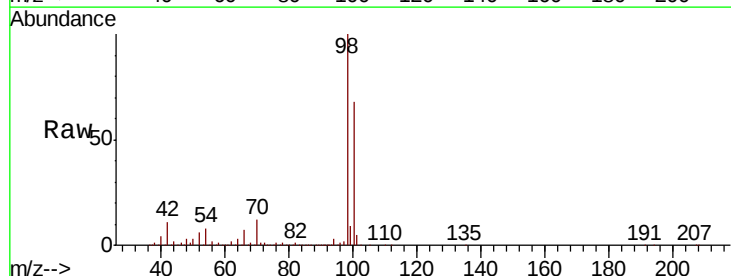
Instrument :
MSVOA_X
ClientSampled :
LT-4

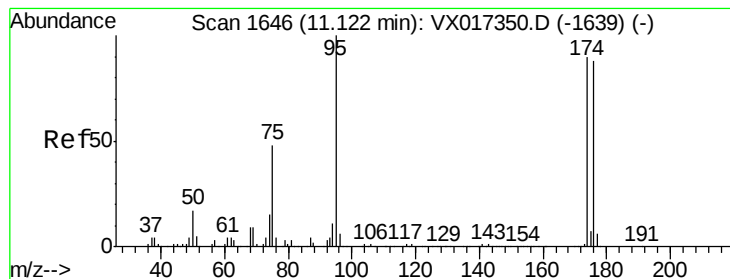
Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 1040.0 25.6 38.4#
58 268.0 53.9 80.9#



#50
Toluene-d8
Concen: 50.506 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017437.D
Acq: 20 Jul 2020 16:28

Tgt Ion: 98 Resp: 530953
Ion Ratio Lower Upper
98 100
100 66.8 53.4 80.2





#62

4-Bromofluorobenzene

Concen: 56.393 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

LT-4

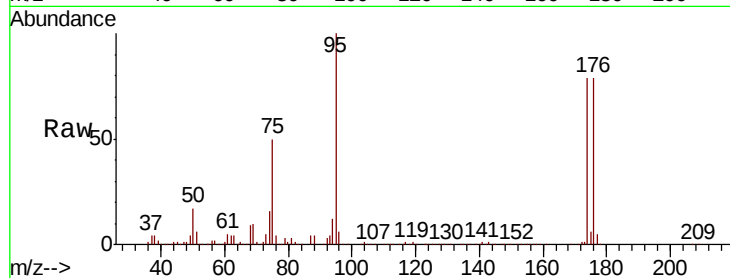
Tot Ion: 95 Resp: 235486

Ion Ratio Lower Upper

95 100

174 80.2 0.0 175.8

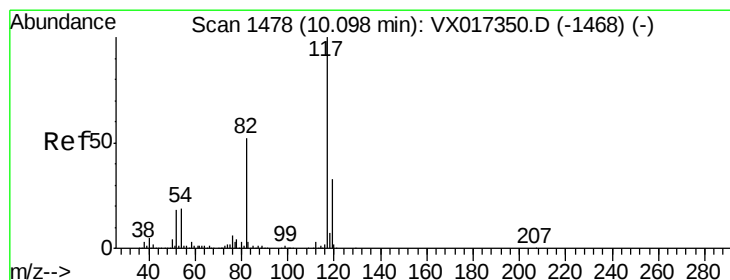
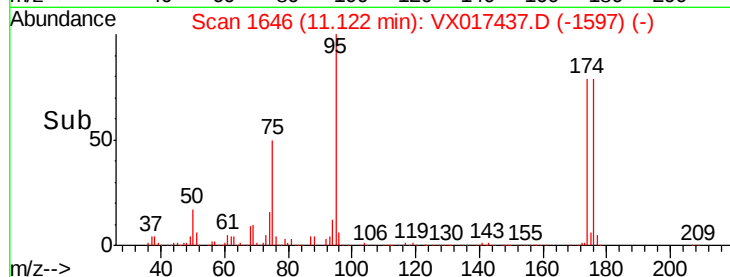
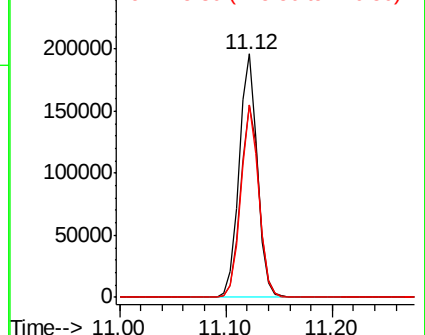
176 77.3 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

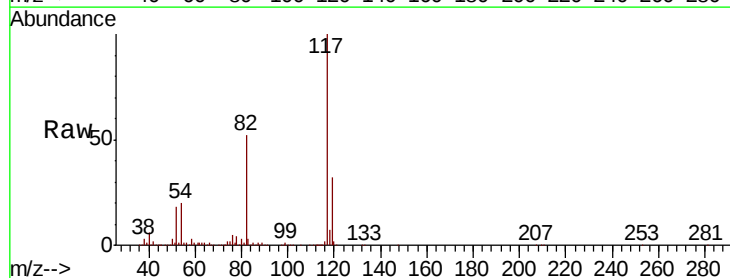
Tgt Ion: 117 Resp: 457570

Ion Ratio Lower Upper

117 100

82 52.3 42.0 63.0

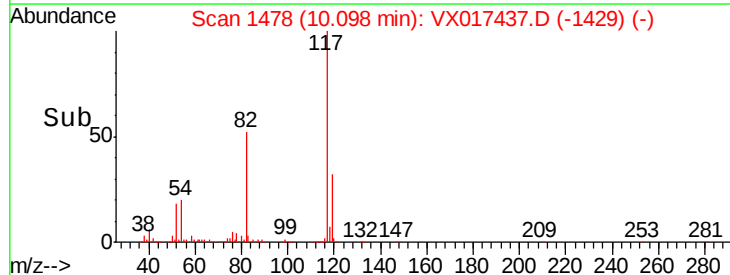
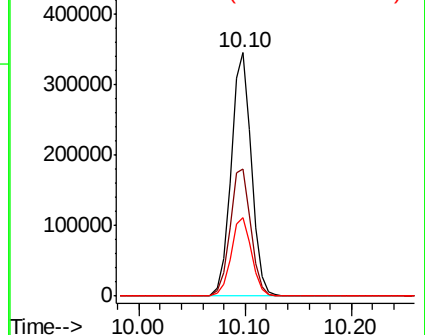
119 32.3 26.3 39.5

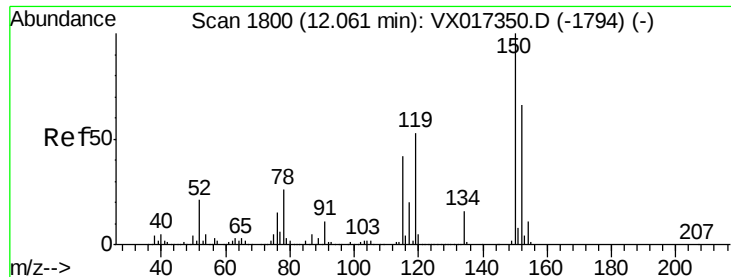


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

LT-4

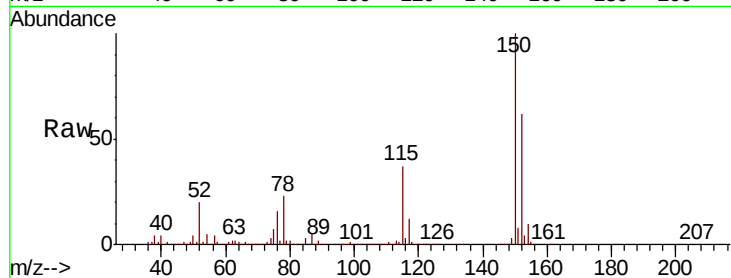
Tot Ion:152 Resp: 257143

Ion Ratio Lower Upper

152 100

115 58.8 39.9 119.7

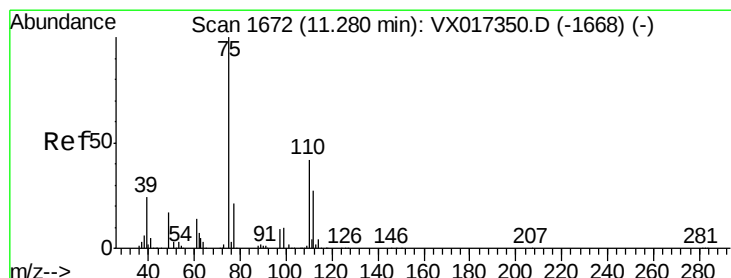
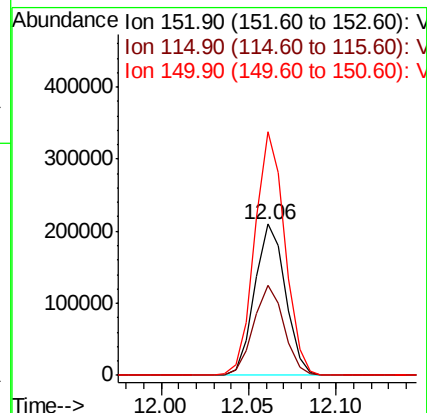
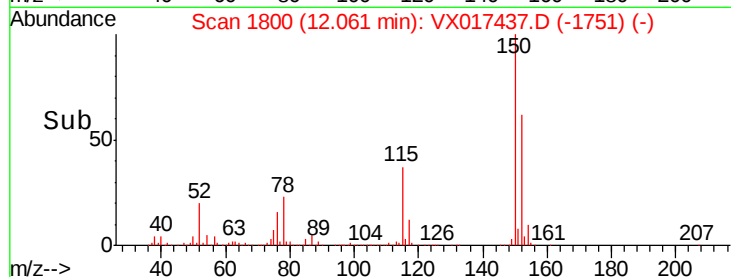
150 157.8 0.0 343.4



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: 24.376 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017437.D

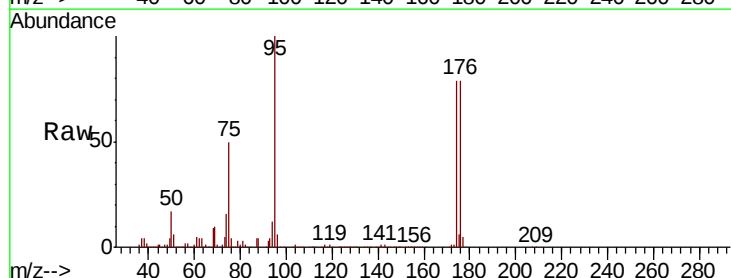
Acq: 20 Jul 2020 16:28

Tgt Ion: 75 Resp: 115824

Ion Ratio Lower Upper

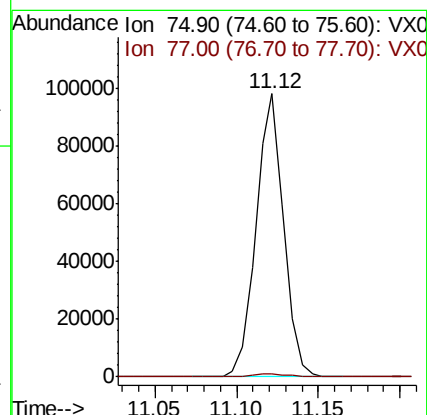
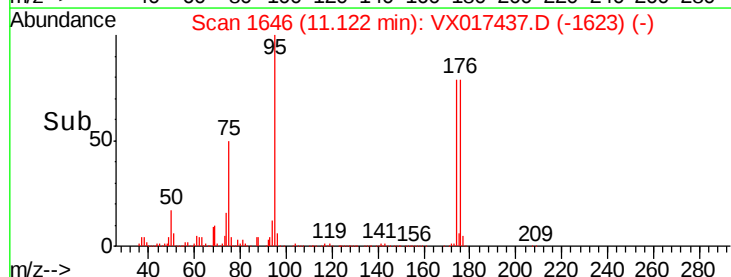
75 100

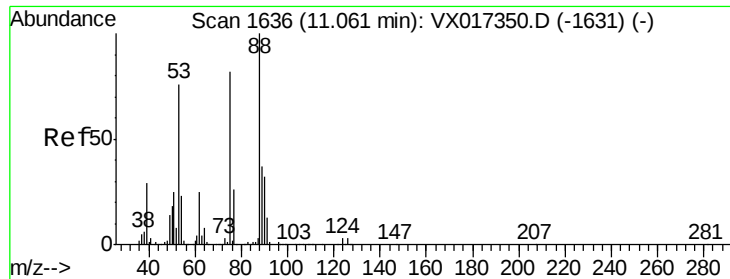
77 1.5 20.3 60.9#



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: 61.836 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampled :

LT-4

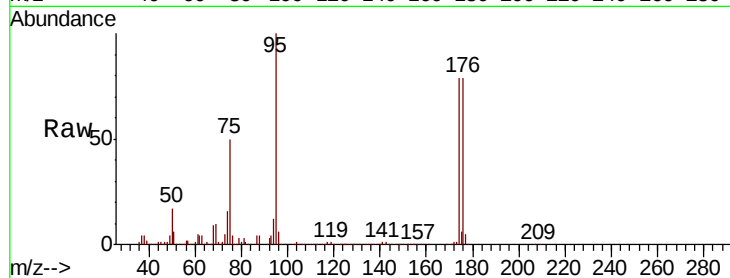
Tot Ion: 75 Resp: 115824

Ion Ratio Lower Upper

75 100

53 0.3 76.5 114.7#

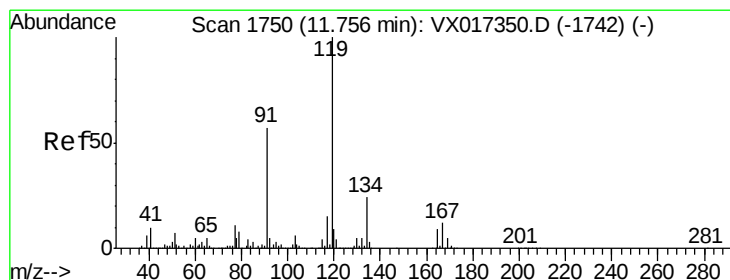
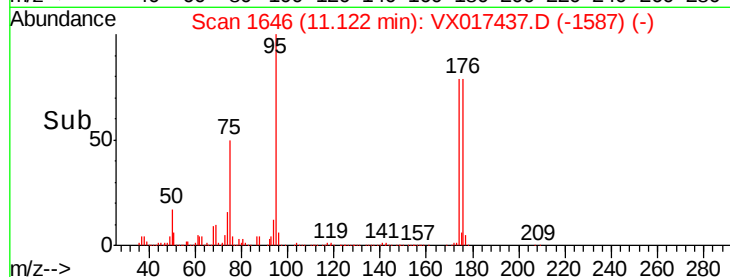
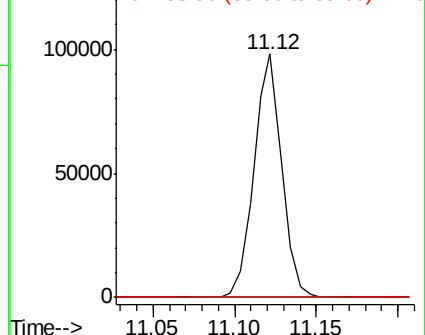
89 0.1 38.1 57.1#



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



#83

tert-Butylbenzene

Concen: 0.386 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

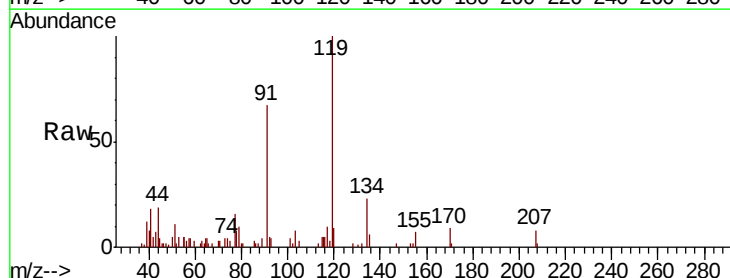
Tgt Ion: 119 Resp: 5108

Ion Ratio Lower Upper

119 100

91 68.7 28.5 85.6

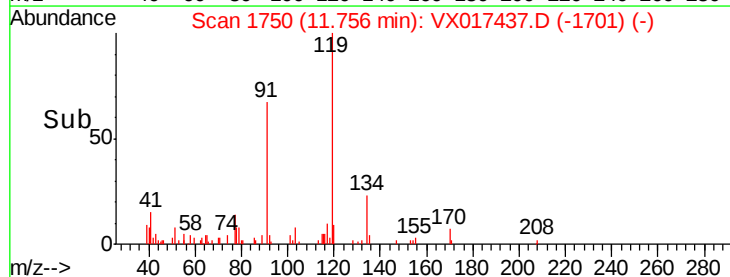
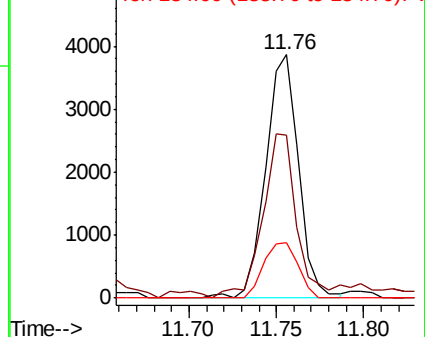
134 23.8 11.9 35.9

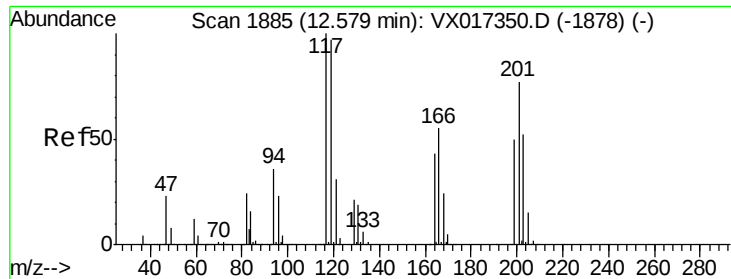


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 2.931 ug/l

RT: 12.65 min Scan# 1897

Delta R.T. 0.07 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

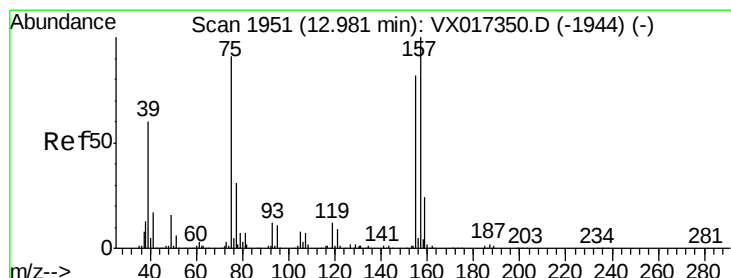
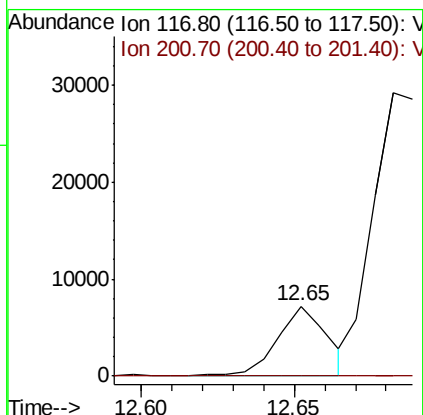
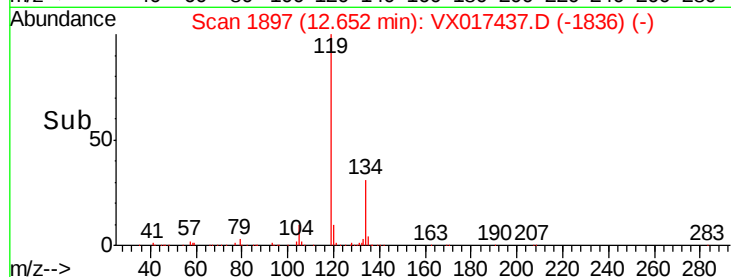
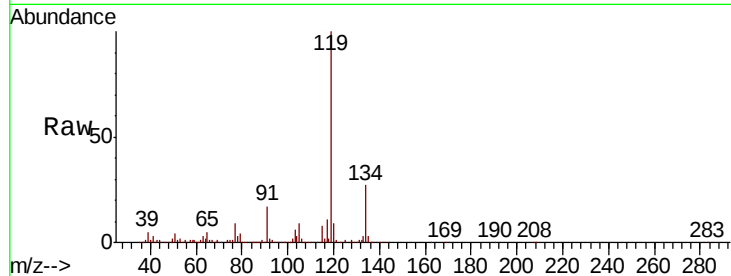
LT-4

Tot Ion:117 Resp: 8153

Ion Ratio Lower Upper

117 100

201 0.0 41.0 123.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.145 ug/l

RT: 12.96 min Scan# 1947

Delta R.T. -0.02 min

Lab File: VX017437.D

Acq: 20 Jul 2020 16:28

Tgt Ion: 75 Resp: 1479

Ion Ratio Lower Upper

75 100

155 0.0 46.5 139.3#

157 0.0 58.0 173.9#

