

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011516.D
 Acq On : 13 Aug 2019 04:44
 Operator : JC/SP
 Sample : K4278-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0698

Quant Time: Aug 13 07:49:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	181008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	272175	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109967	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	102000	55.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.92%	
35) Dibromofluoromethane	5.49	113	84386	47.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.98%	
50) Toluene-d8	8.71	98	315763	47.08	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.16%	
62) 4-Bromofluorobenzene	11.13	95	103114	43.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	86.12%	

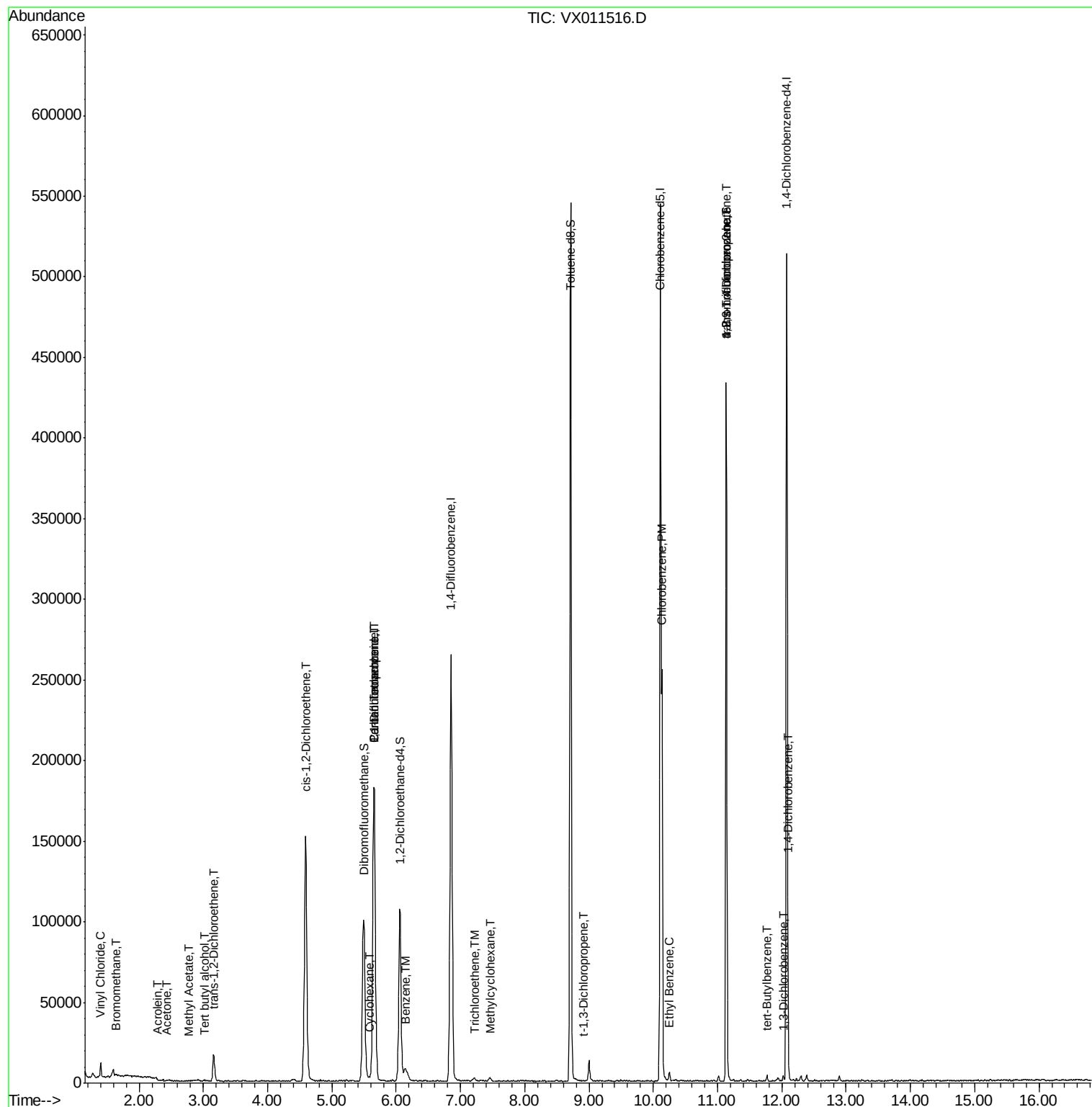
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	5875	3.402	ug/l	99
5) Bromomethane	1.64	94	308	0.250	ug/l #	65
6) Chloroethane	1.74	64	328	Below Cal	#	82
11) Tert butyl alcohol	3.03	59	606	1.690	ug/l	97
13) Acrolein	2.28	56	152	0.251	ug/l #	1
16) Acetone	2.43	43	660	0.761	ug/l	99
18) Methyl Acetate	2.76	43	569	0.287	ug/l #	56
21) trans-1,2-Dichloroethene	3.16	96	7045	4.044	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	99234	49.453	ug/l	93
31) Cyclohexane	5.58	56	1219	0.519	ug/l #	63
36) 1,1-Dichloropropene	5.65	75	12554	5.283	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16874	7.058	ug/l #	14
39) Methylcyclohexane	7.45	83	896	0.318	ug/l #	82
40) Benzene	6.14	78	8457	1.193	ug/l	94
44) Trichloroethene	7.21	130	775	0.361	ug/l	91
53) t-1,3-Dichloropropene	8.90	75	19	2.845	ug/l #	43
65) Chlorobenzene	10.13	112	103546	20.050	ug/l	100
67) Ethyl Benzene	10.25	91	2994	0.346	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	53300	26.615	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	53300	69.161	ug/l #	10
83) tert-Butylbenzene	11.76	119	1318	0.213	ug/l #	70
87) 1,3-Dichlorobenzene	12.02	146	955	0.259	ug/l	91
88) 1,4-Dichlorobenzene	12.10	146	10816	2.846	ug/l	87

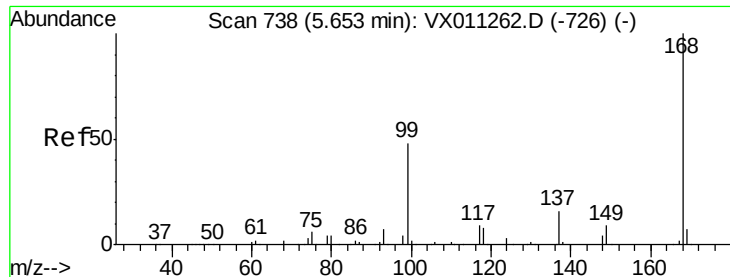
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

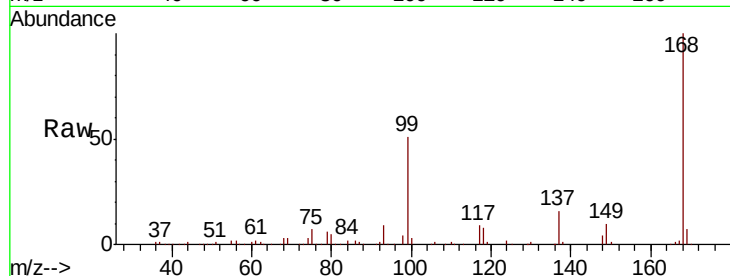
Z3-0698

Tgt Ion:168 Resp: 181008

Ion Ratio Lower Upper

168 100

99 50.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

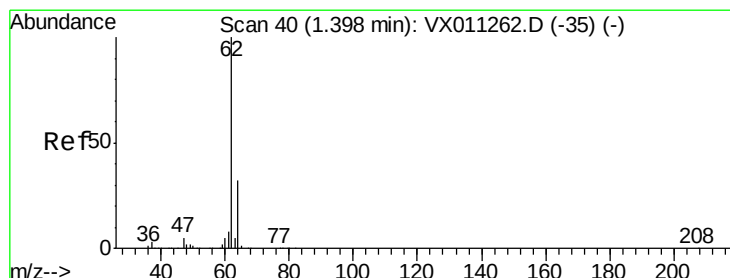
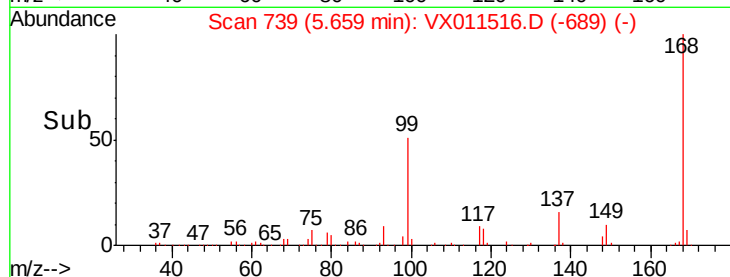
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 3.402 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011516.D

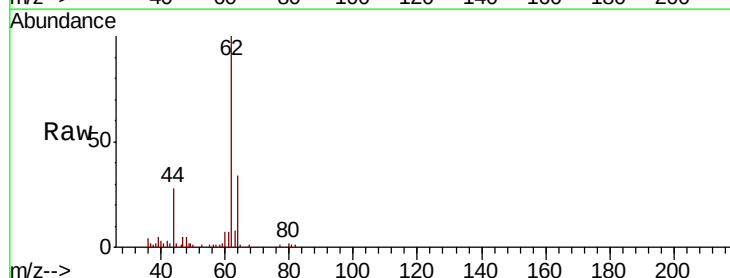
Acq: 13 Aug 2019 04:44

Tgt Ion: 62 Resp: 5875

Ion Ratio Lower Upper

62 100

64 32.2 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

6000

5000

4000

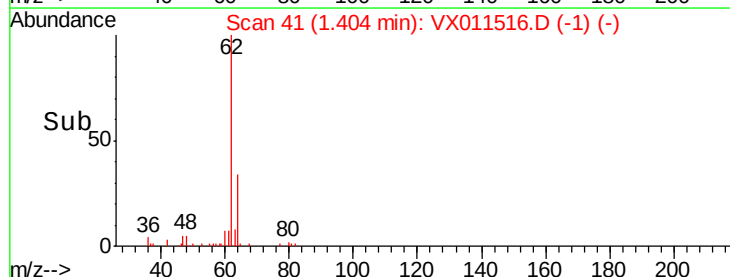
3000

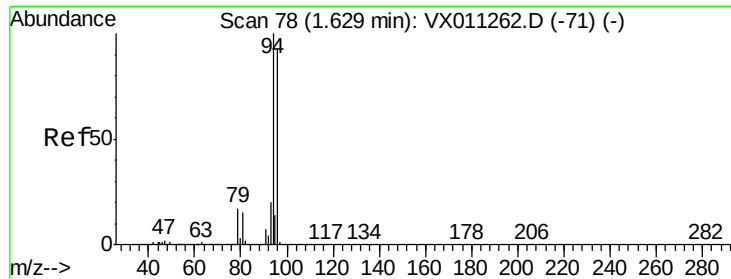
2000

1000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

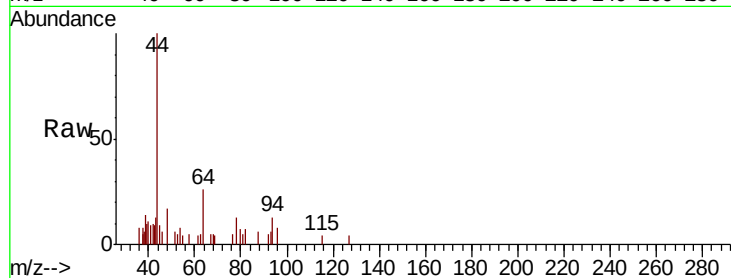
Z3-0698

Tgt Ion: 94 Resp: 308

Ion Ratio Lower Upper

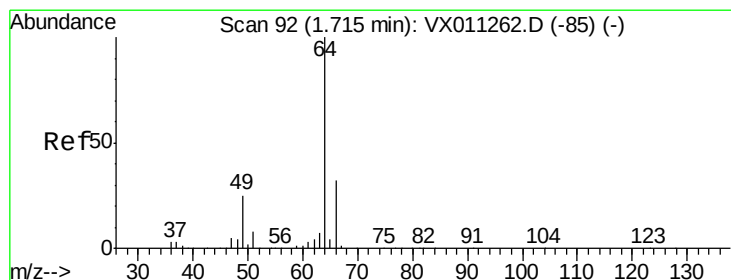
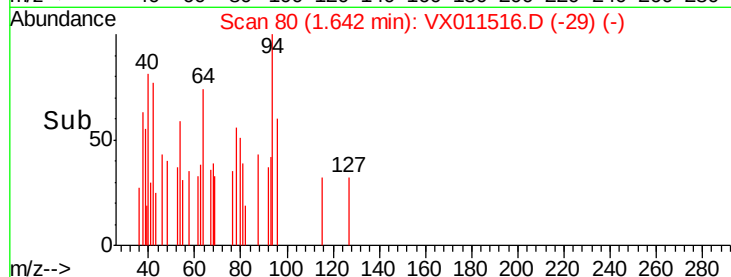
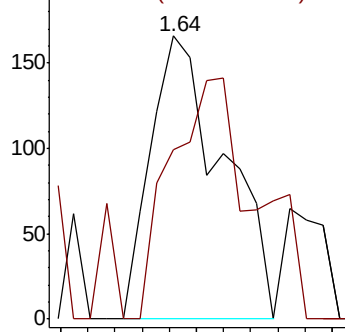
94 100

96 59.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX011516.D

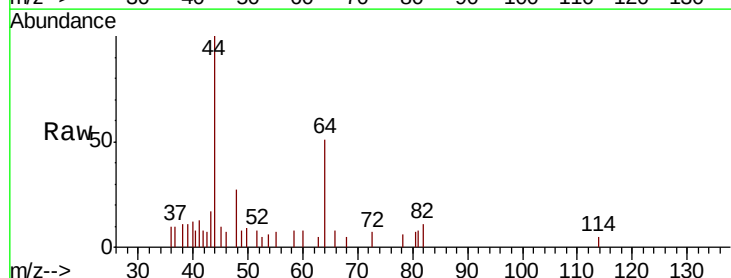
Acq: 13 Aug 2019 04:44

Tgt Ion: 64 Resp: 328

Ion Ratio Lower Upper

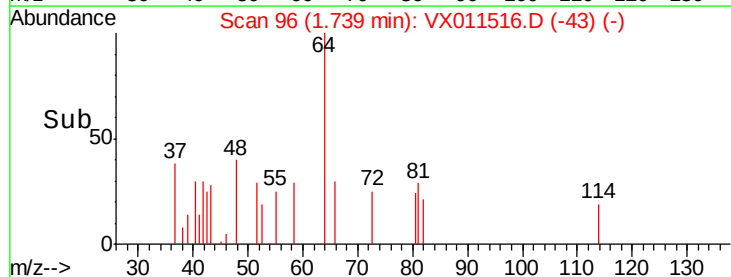
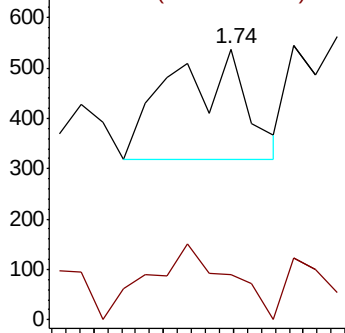
64 100

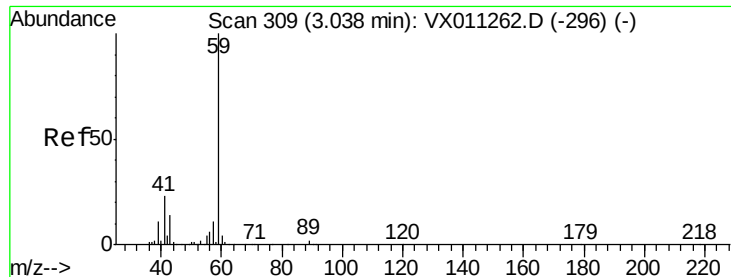
66 41.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

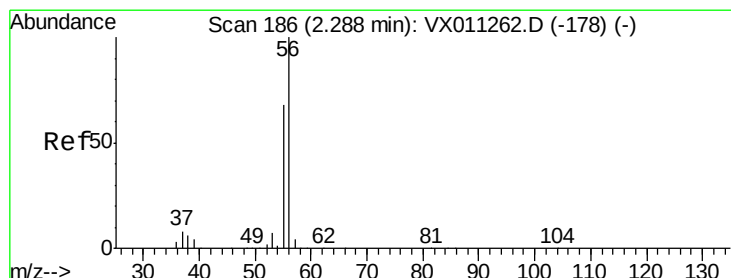
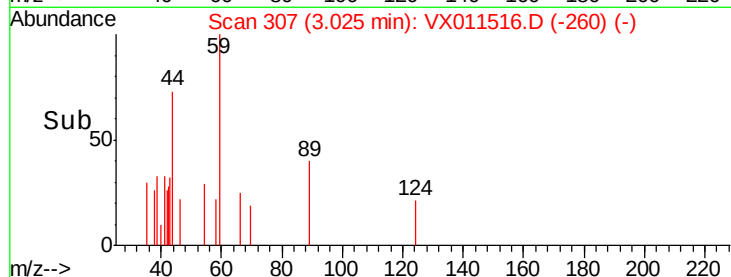
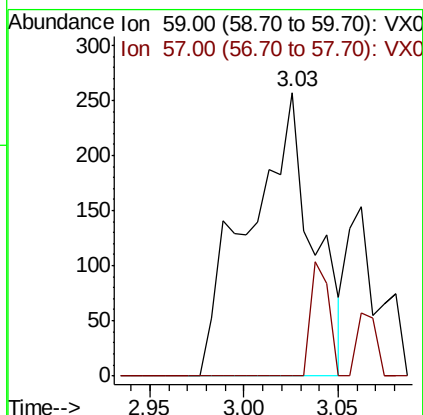
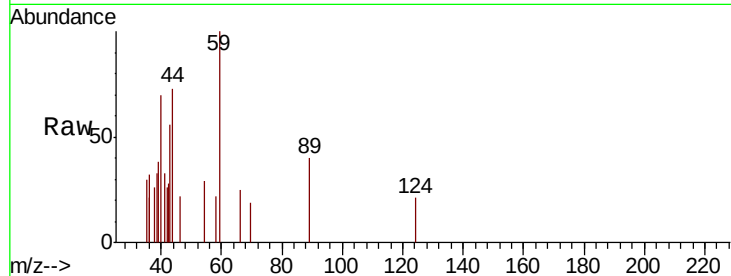




#11
Tert butyl alcohol
Concen: 1.690 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

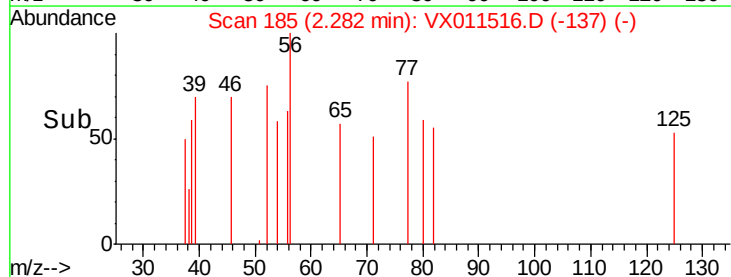
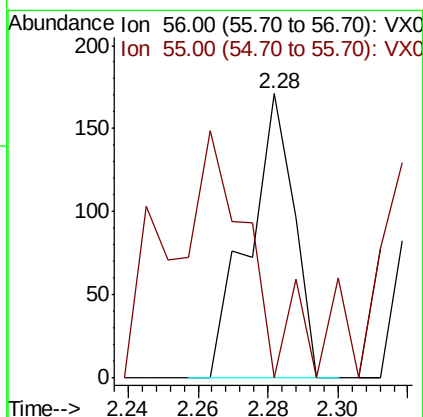
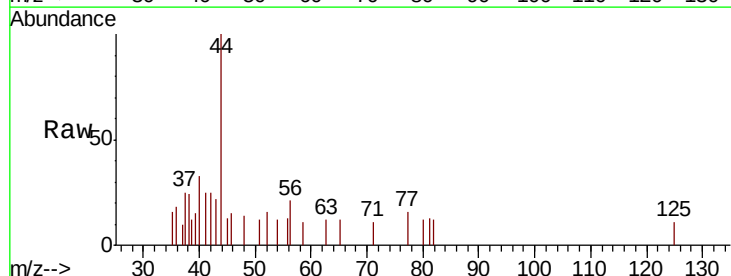
Instrument :
MSVOA_X
ClientSampleId :
Z3-0698

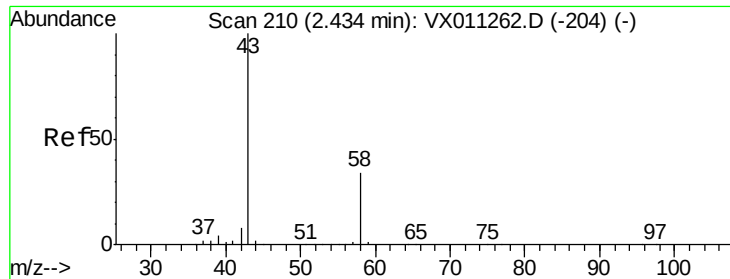
Tgt Ion: 59 Resp: 606
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5



#13
Acrolein
Concen: 0.251 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 153.9 56.0 84.0#





#16

Acetone

Concen: 0.761 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

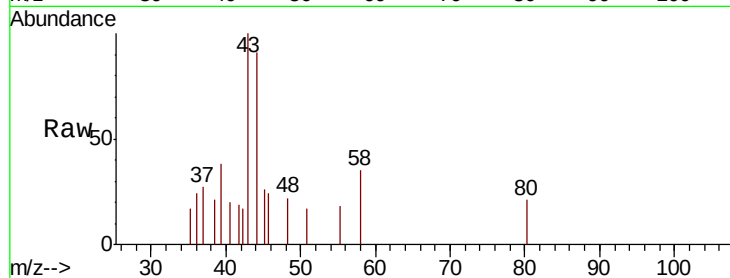
Z3-0698

Tgt Ion: 43 Resp: 660

Ion Ratio Lower Upper

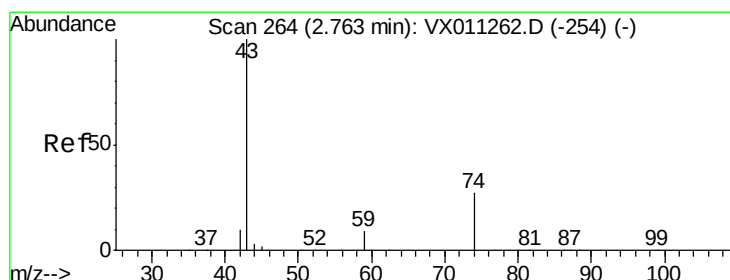
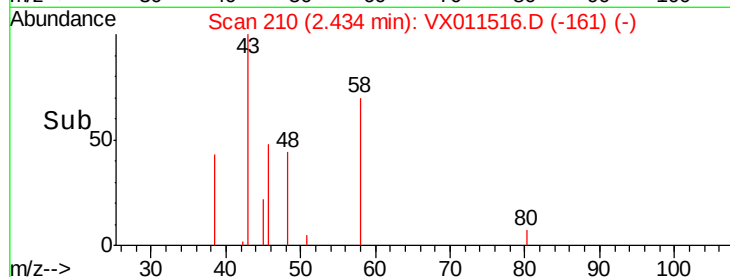
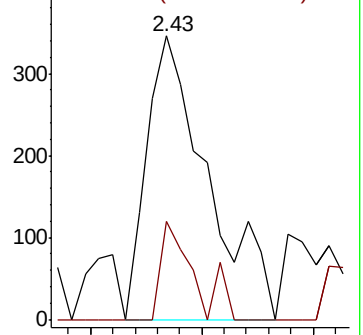
43 100

58 34.7 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.287 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011516.D

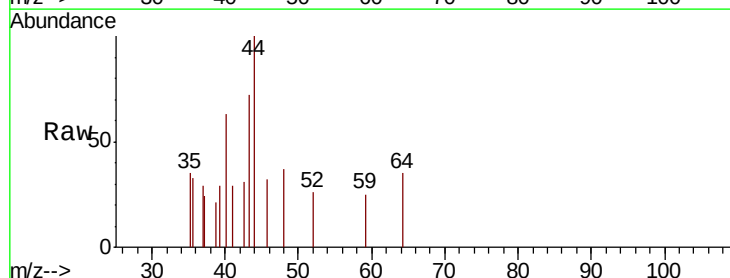
Acq: 13 Aug 2019 04:44

Tgt Ion: 43 Resp: 569

Ion Ratio Lower Upper

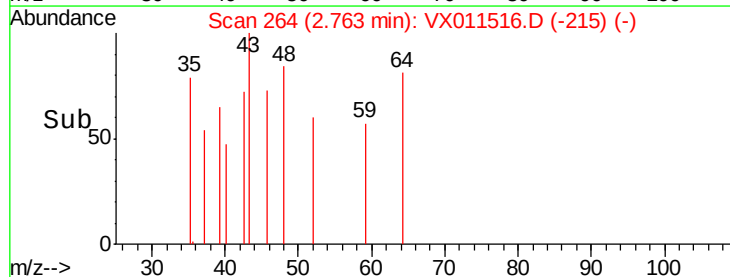
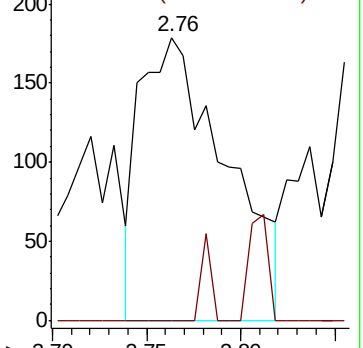
43 100

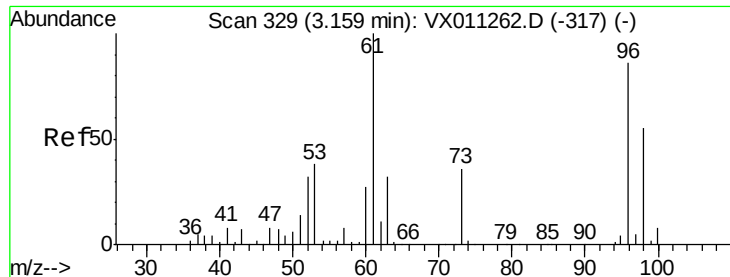
74 3.5 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 4.044 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.00 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

Z3-0698

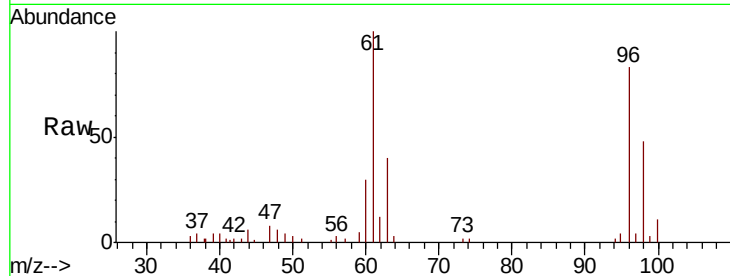
Tgt Ion: 96 Resp: 7045

Ion Ratio Lower Upper

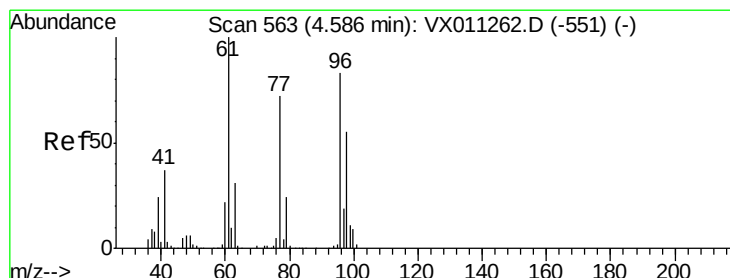
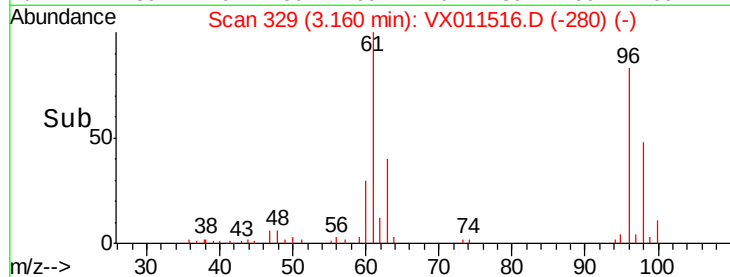
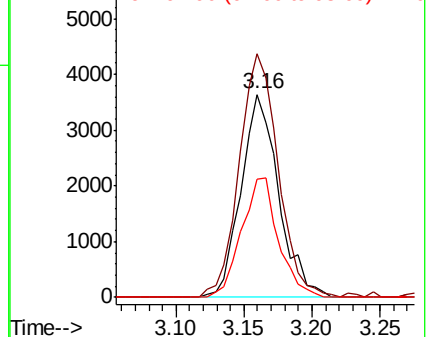
96 100

61 119.9 92.8 139.2

98 57.9 51.2 76.8



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



#27

cis-1,2-Dichloroethene

Concen: 49.453 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

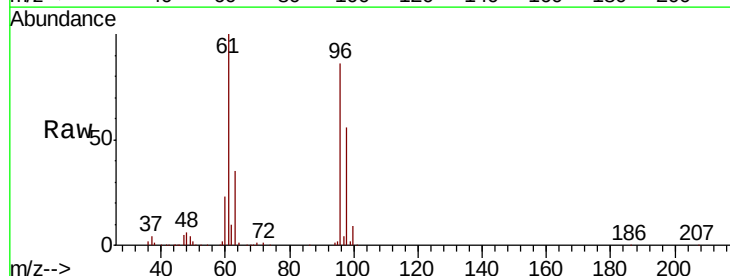
Tgt Ion: 96 Resp: 99234

Ion Ratio Lower Upper

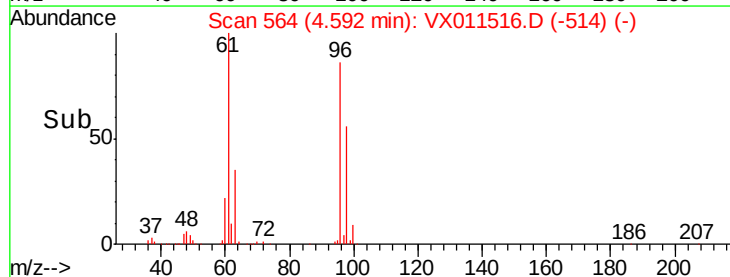
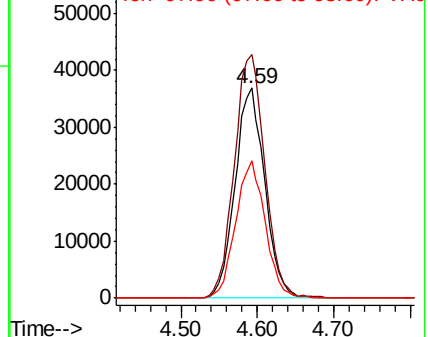
96 100

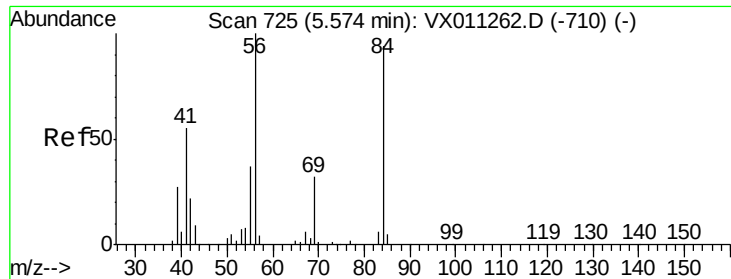
61 119.2 0.0 260.2

98 65.0 0.0 133.2



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

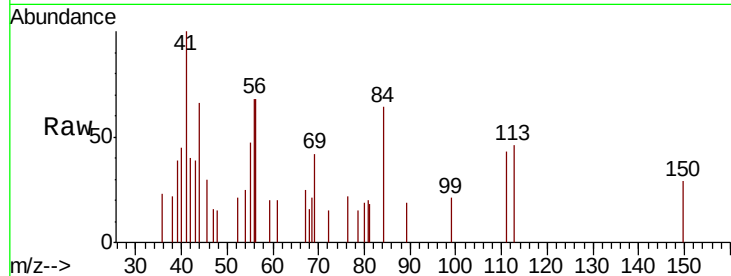




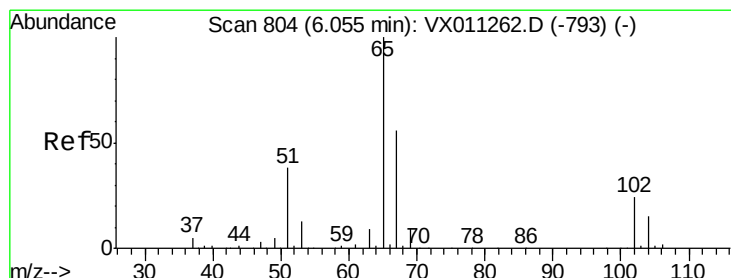
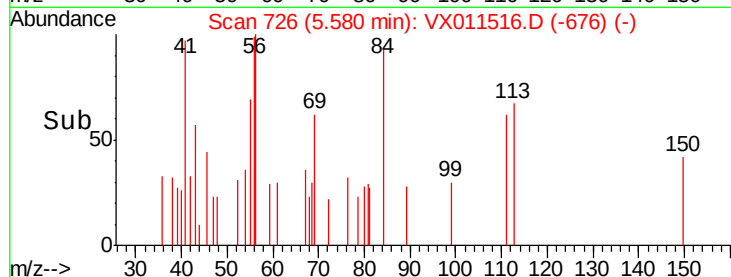
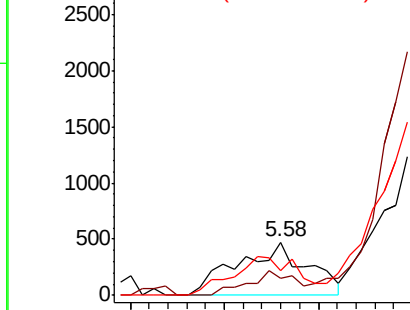
#31
Cyclohexane
Concen: 0.519 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Instrument :
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ClientSampleId :
Z3-0698

Tgt Ion: 56 Resp: 1219
Ion Ratio Lower Upper
56 100
69 31.2 25.5 38.3
84 46.7 75.0 112.4#

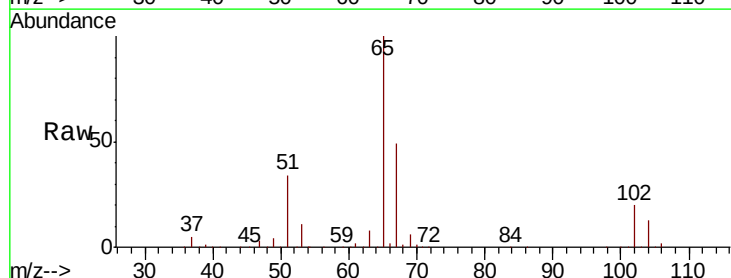


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

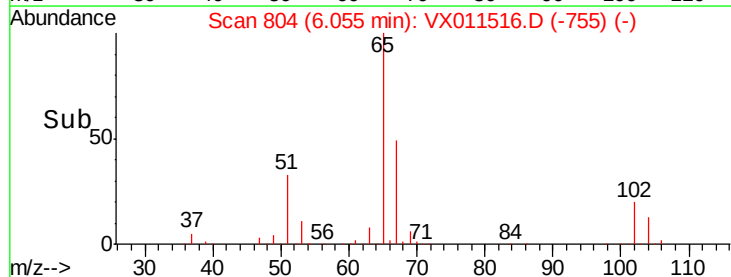
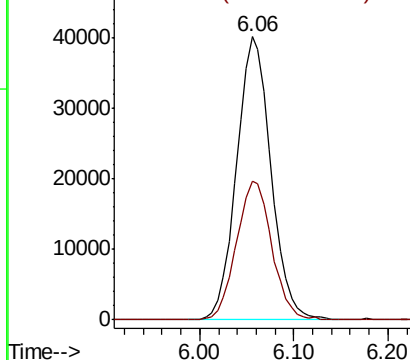


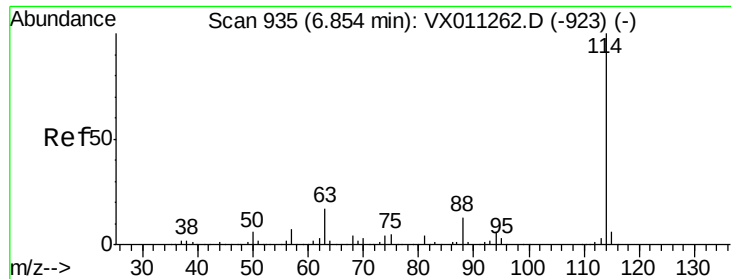
#33
1,2-Dichloroethane-d4
Concen: 55.956 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Tgt Ion: 65 Resp: 102000
Ion Ratio Lower Upper
65 100
67 51.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

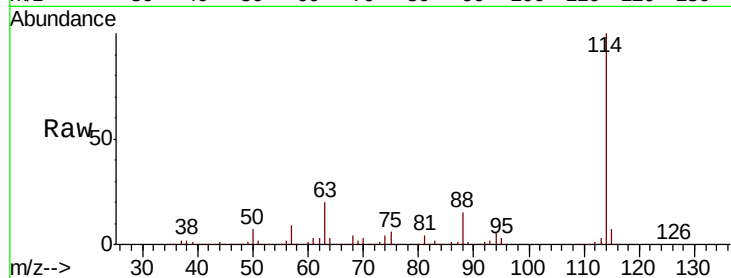




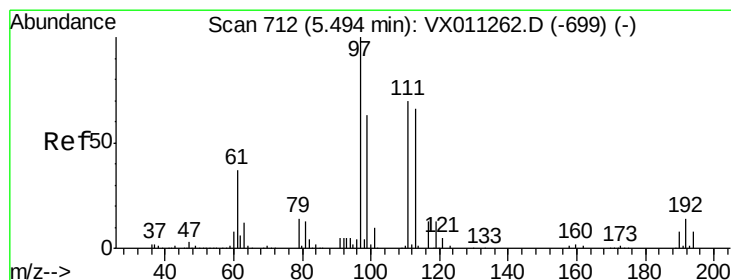
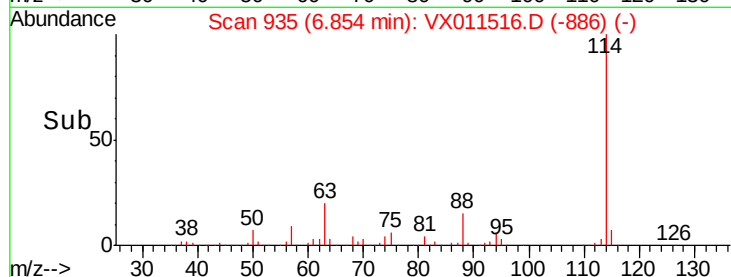
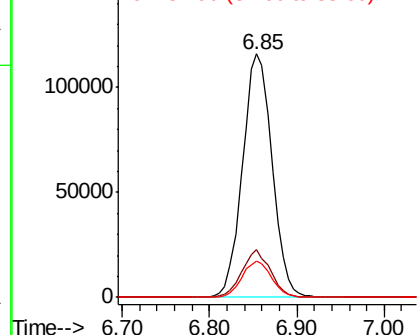
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0698

Tgt Ion:114 Resp: 272175
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 34.0
 88 14.9 0.0 26.4

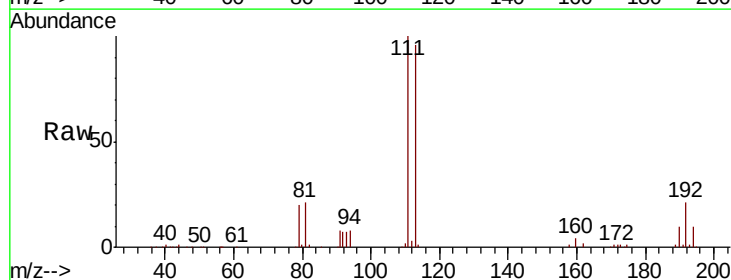


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

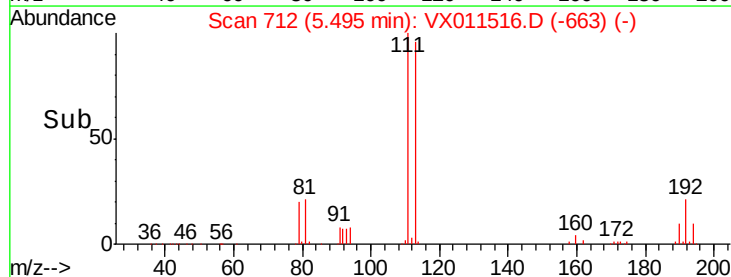
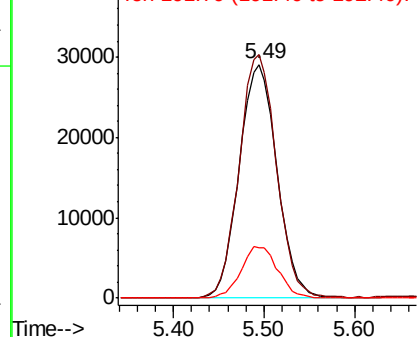


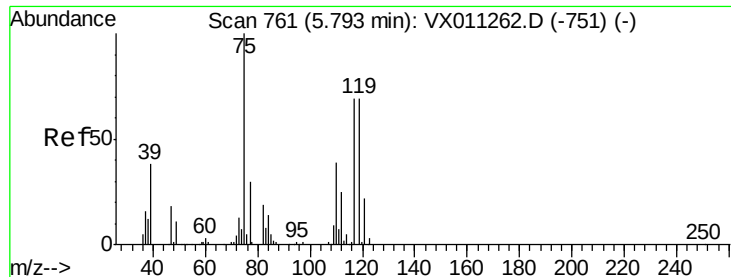
#35
 Dibromofluoromethane
 Concen: 47.489 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

Tgt Ion:113 Resp: 84386
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.9 122.9
 192 21.5 17.8 26.8



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

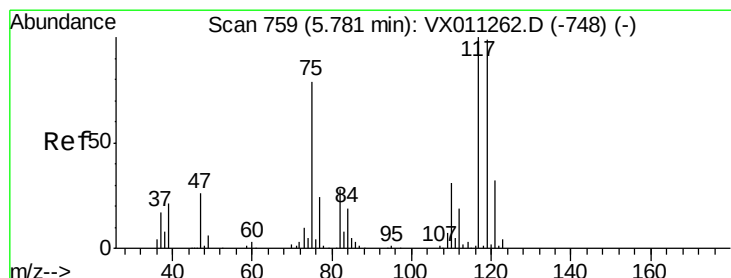
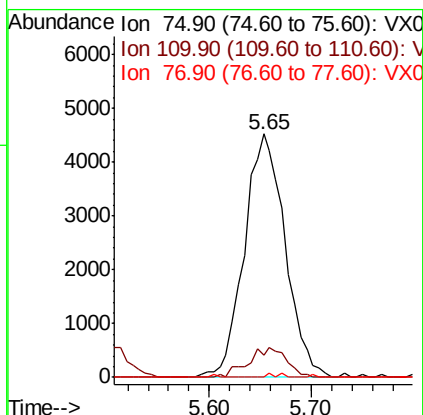
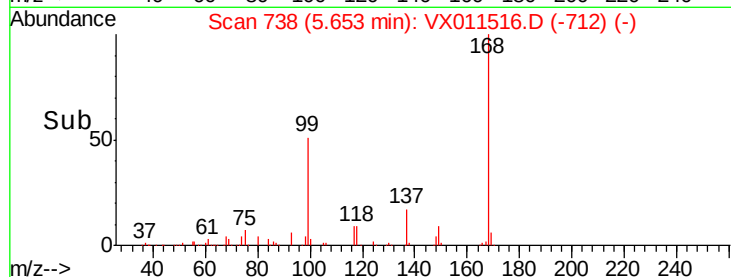
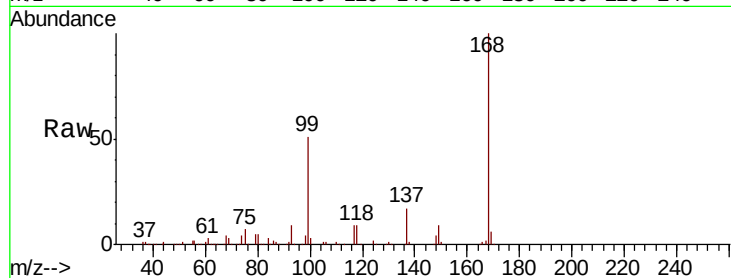




#36
 1,1-Dichloropropene
 Concen: 5.283 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

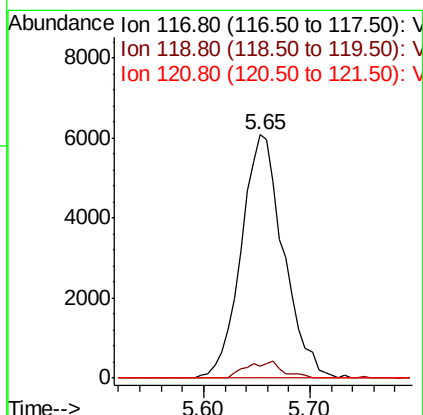
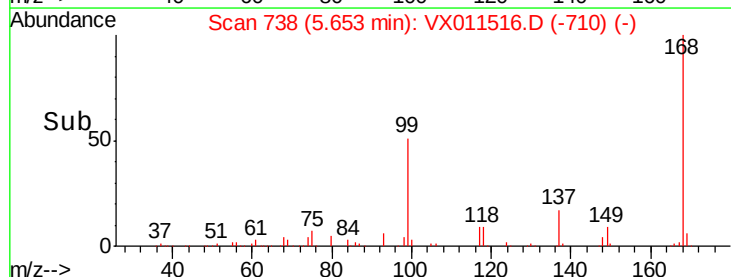
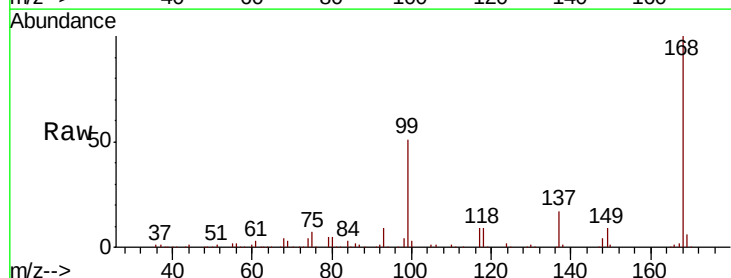
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0698

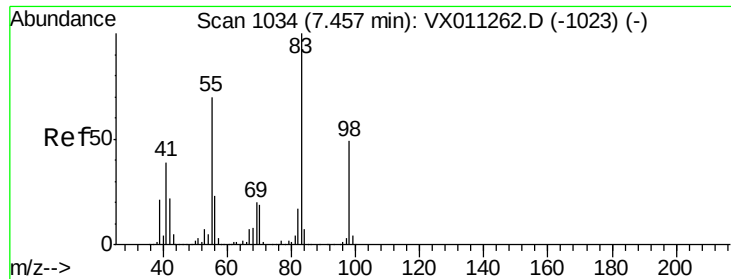
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	20.0	59.9#
77	0.2	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.058 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	79.0	118.4#
121	0.0	25.9	38.9#

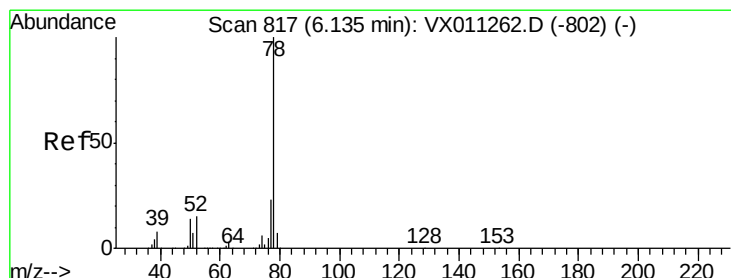
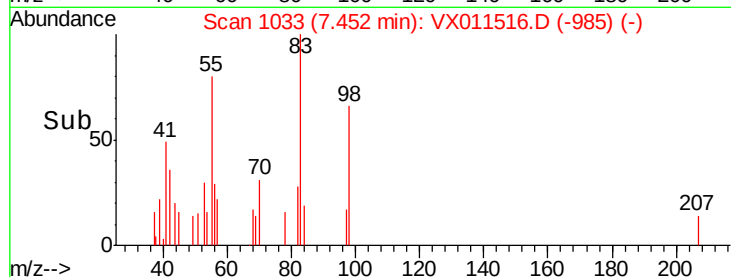
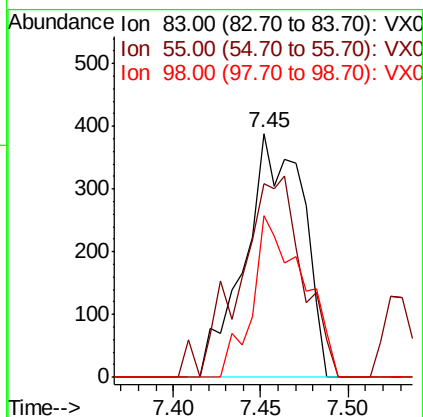
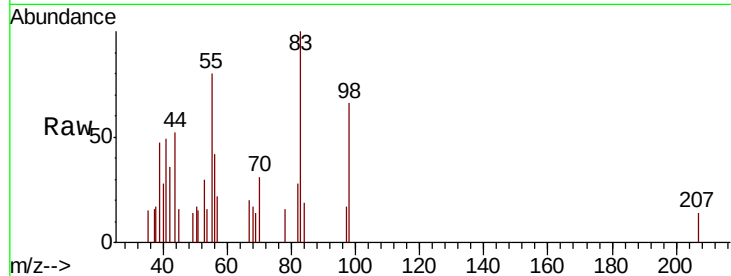




#39
Methylcyclohexane
Concen: 0.318 ug/l
RT: 7.45 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

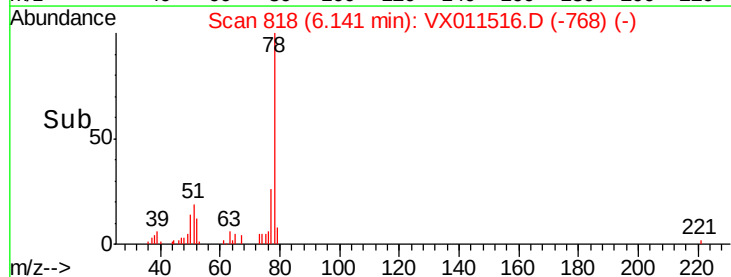
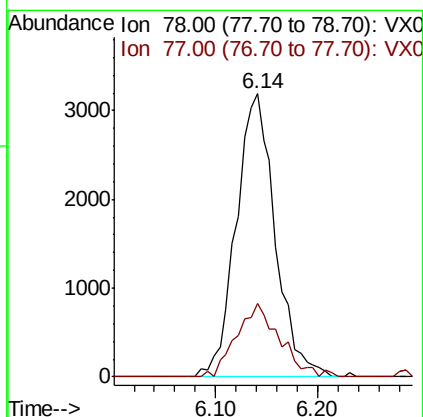
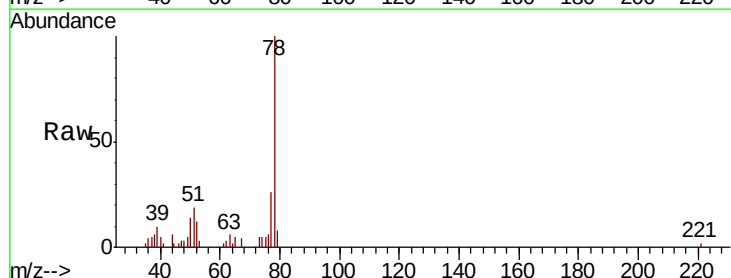
Instrument :
MSVOA_X
ClientSampleId :
Z3-0698

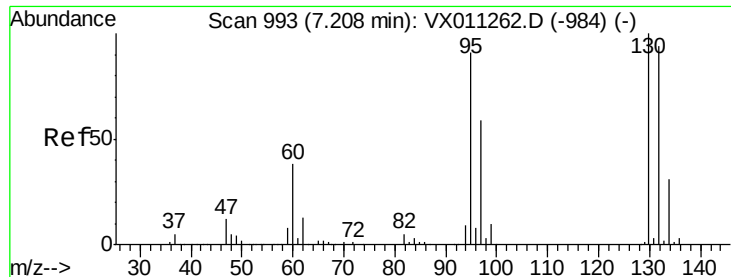
Tgt Ion: 83 Resp: 896
Ion Ratio Lower Upper
83 100
55 79.6 56.1 84.1
98 66.5 39.0 58.4#



#40
Benzene
Concen: 1.193 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.01 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Tgt Ion: 78 Resp: 8457
Ion Ratio Lower Upper
78 100
77 25.8 18.2 27.2





#44

Trichloroethene

Concen: 0.361 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampled :

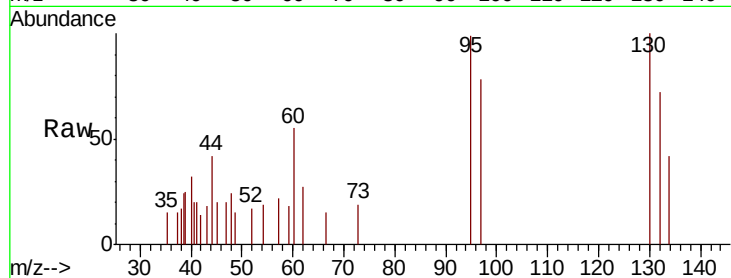
Z3-0698

Tgt Ion:130 Resp: 775

Ion Ratio Lower Upper

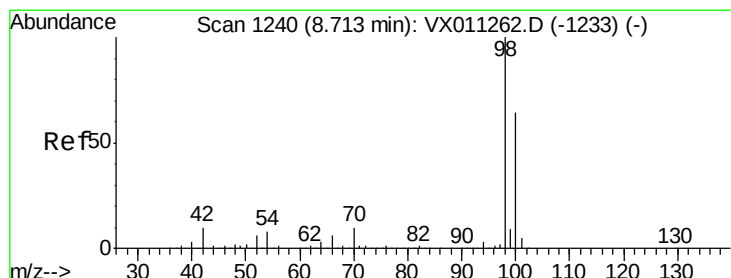
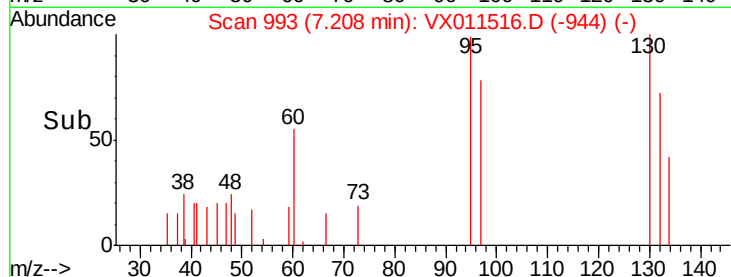
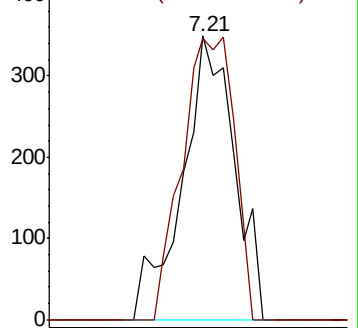
130 100

95 99.4 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.076 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011516.D

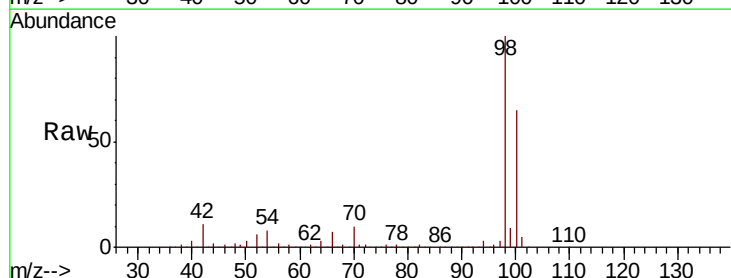
Acq: 13 Aug 2019 04:44

Tgt Ion: 98 Resp: 315763

Ion Ratio Lower Upper

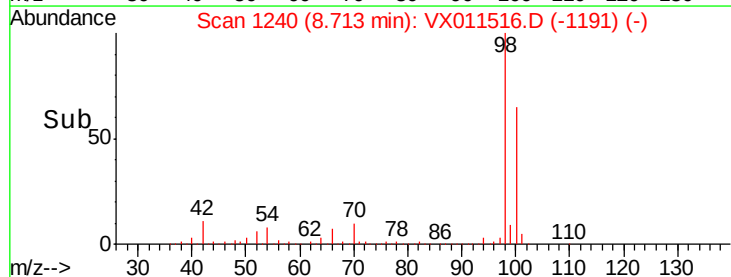
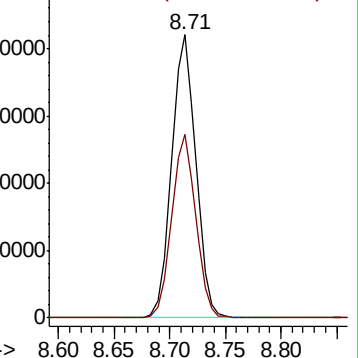
98 100

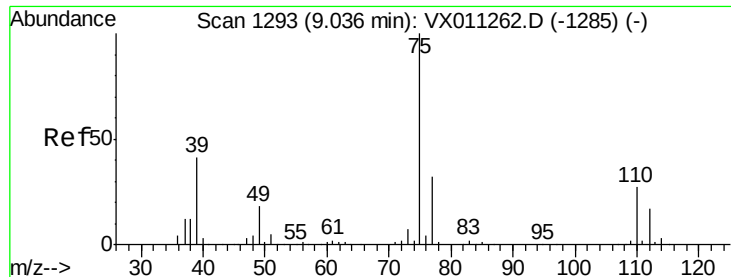
100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

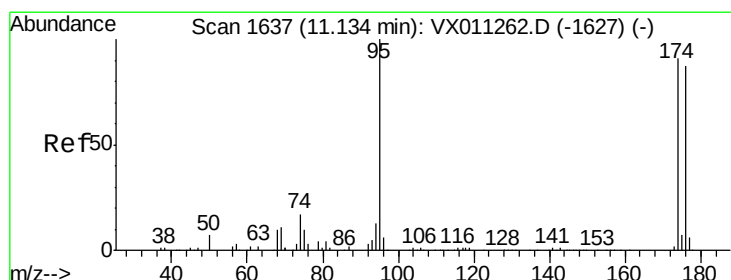
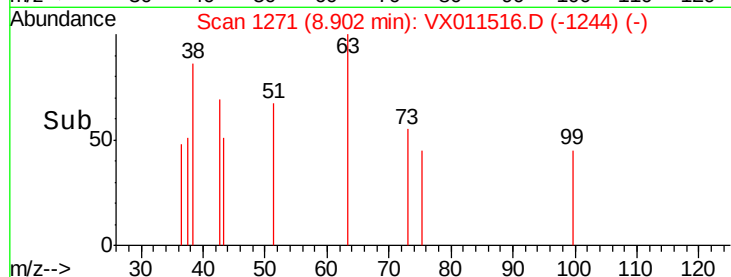
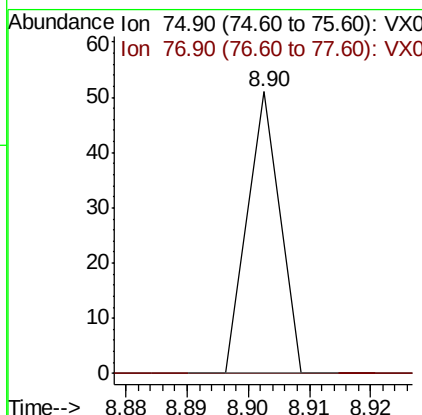
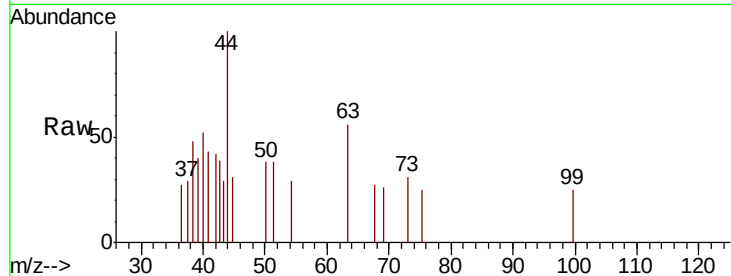




#53
t-1,3-Dichloropropene
Concen: 2.845 ug/l
RT: 8.90 min Scan# 1271
Delta R.T. -0.13 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

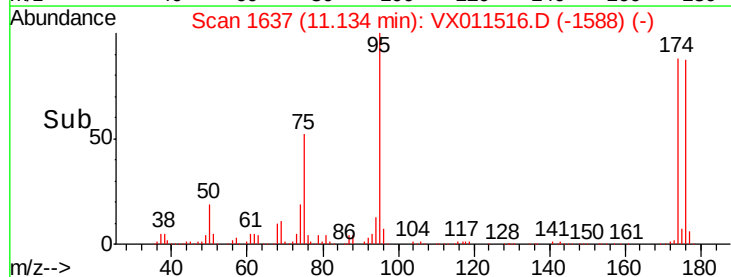
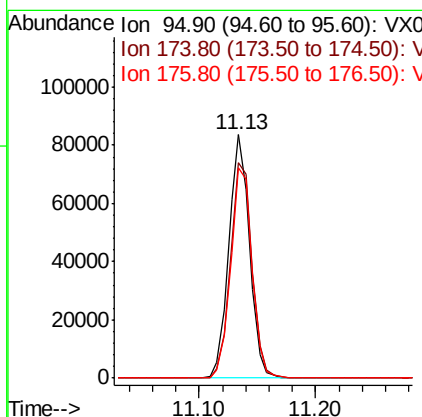
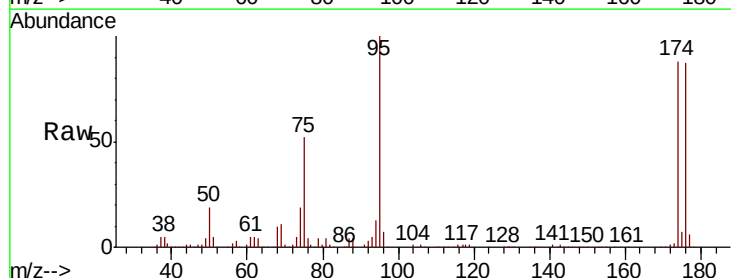
Instrument :
MSVOA_X
ClientSampleId :
Z3-0698

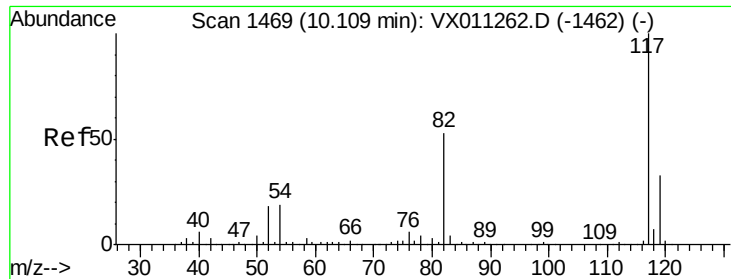
Tgt Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 43.058 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Tgt Ion: 95 Resp: 103114
Ion Ratio Lower Upper
95 100
174 92.8 0.0 191.2
176 89.6 0.0 184.8

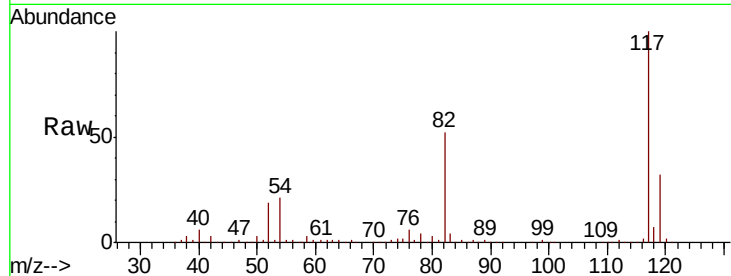




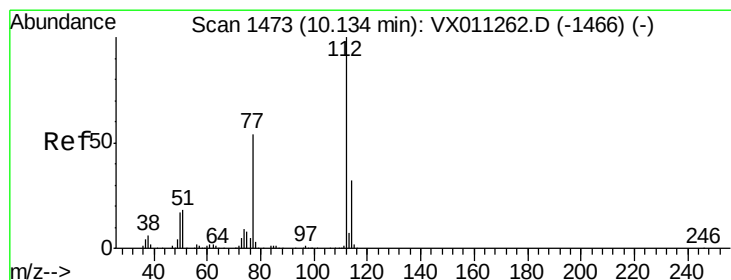
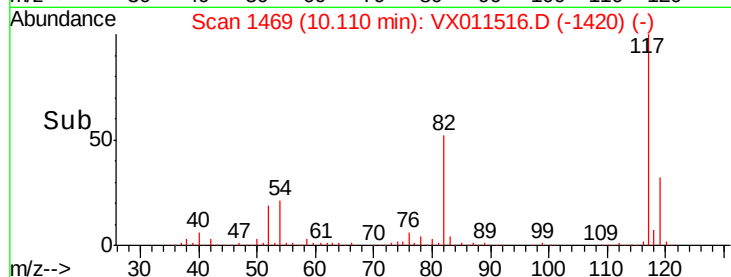
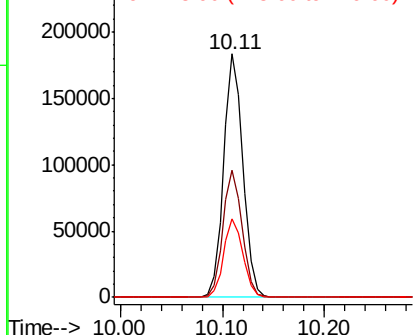
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Instrument :
MSVOA_X
ClientSampled :
Z3-0698

Tgt Ion:117 Resp: 240865
Ion Ratio Lower Upper
117 100
82 52.4 42.2 63.2
119 32.2 26.6 39.8

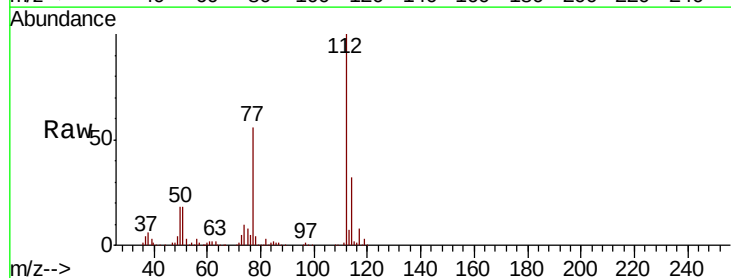


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

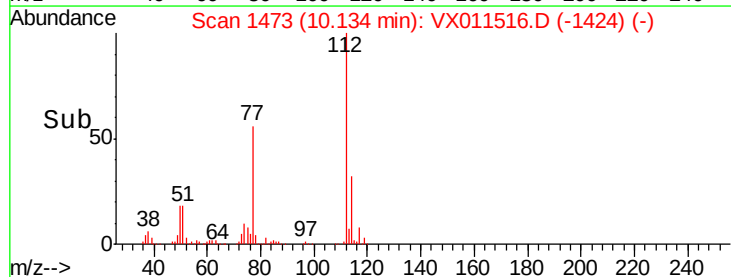
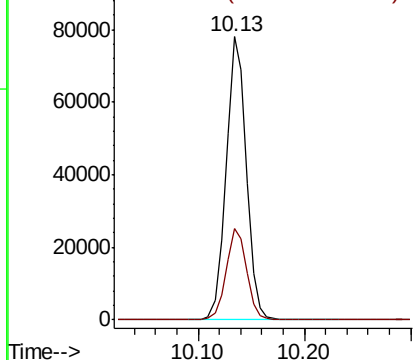


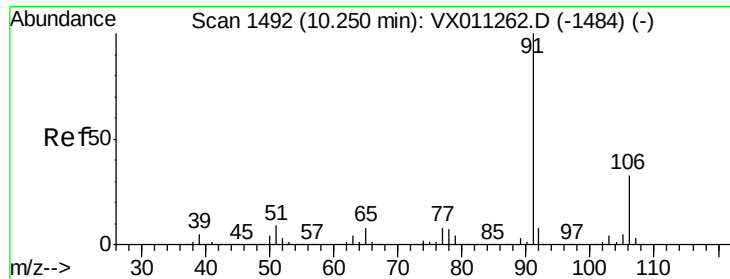
#65
Chlorobenzene
Concen: 20.050 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX011516.D
Acq: 13 Aug 2019 04:44

Tgt Ion:112 Resp: 103546
Ion Ratio Lower Upper
112 100
114 32.4 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

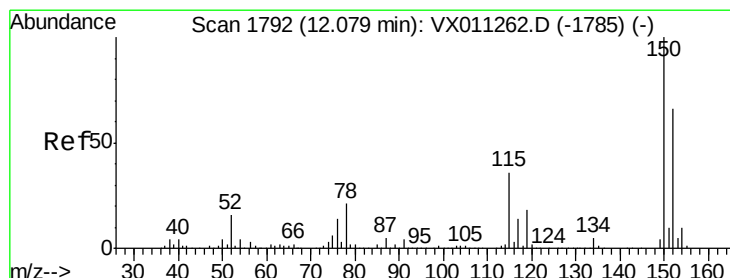
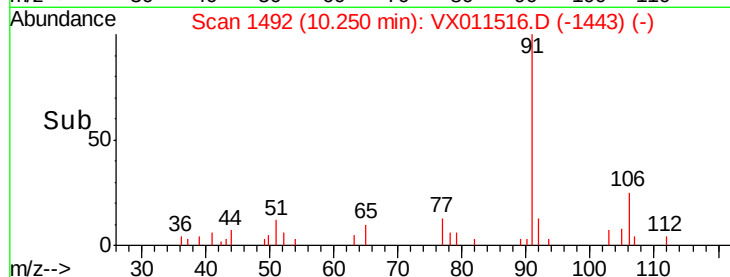
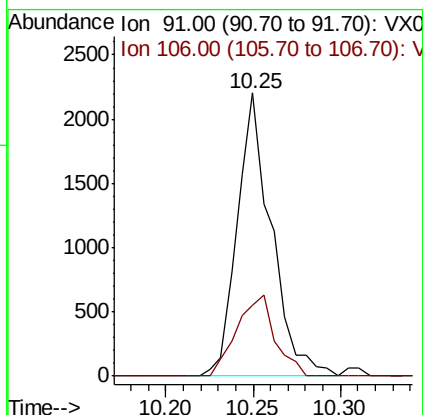
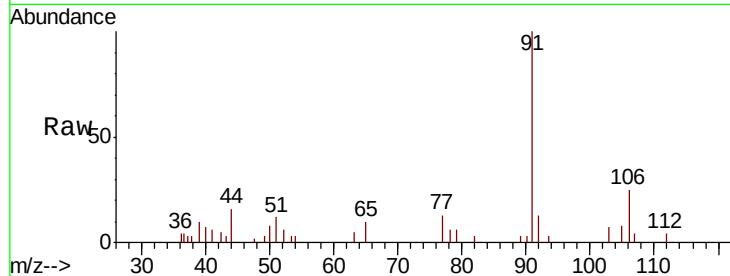




#67
 Ethyl Benzene
 Concen: 0.346 ug/l
 RT: 10.25 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

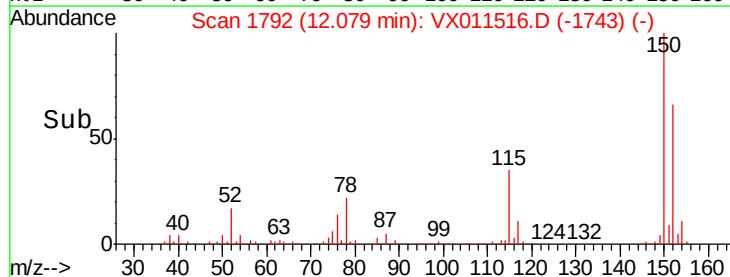
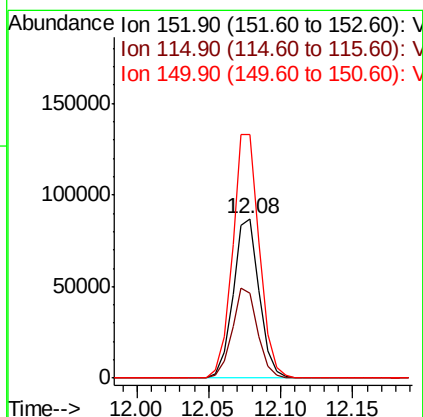
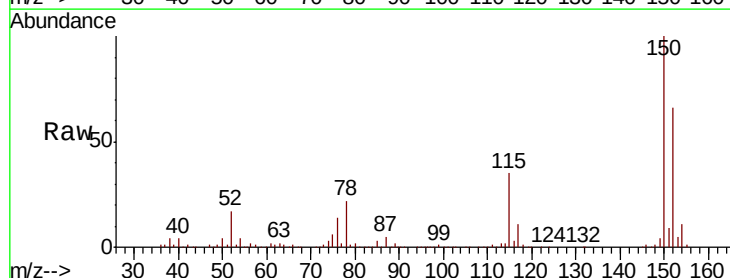
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0698

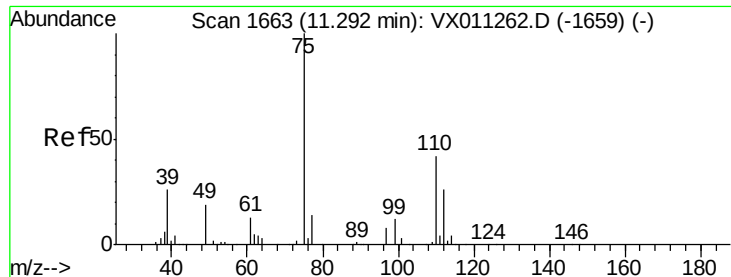
Tgt Ion: 91 Resp: 2994
 Ion Ratio Lower Upper
 91 100
 106 25.1 26.2 39.4#



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

Tgt Ion: 152 Resp: 109967
 Ion Ratio Lower Upper
 152 100
 115 55.9 40.0 119.9
 150 157.7 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.615 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

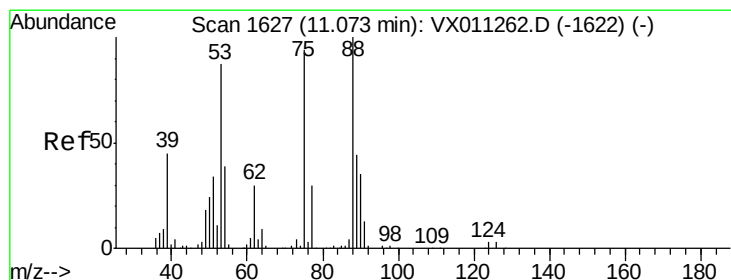
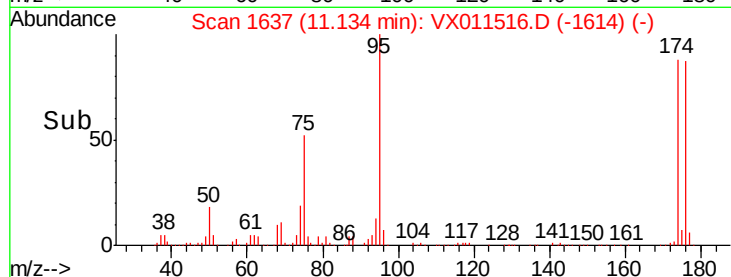
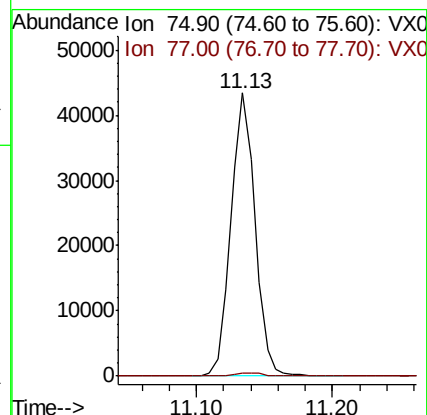
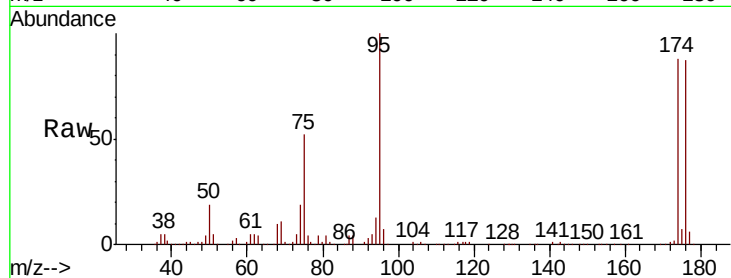
Z3-0698

Tgt Ion: 75 Resp: 53300

Ion Ratio Lower Upper

75 100

77 1.2 21.1 63.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.161 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

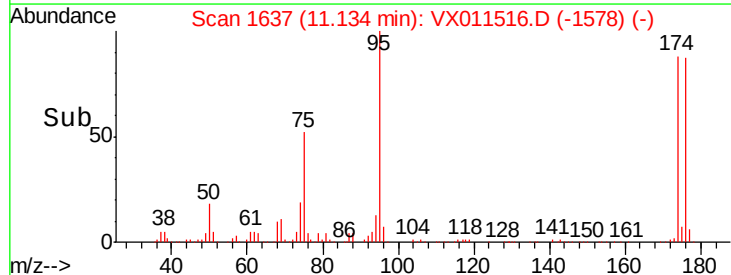
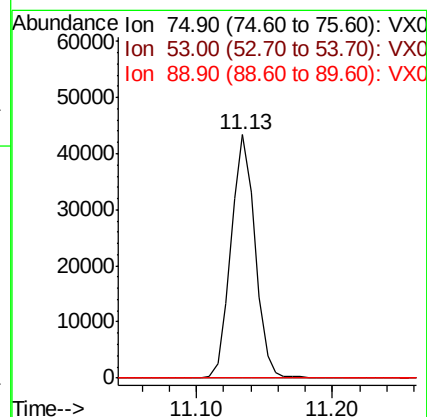
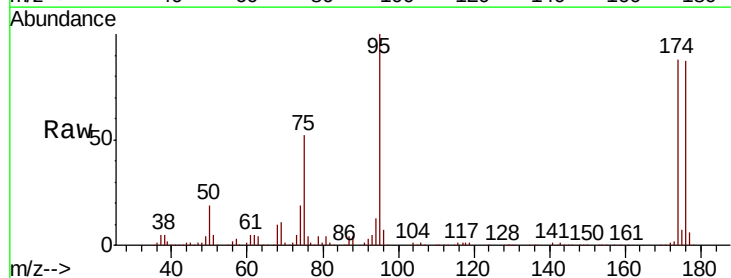
Tgt Ion: 75 Resp: 53300

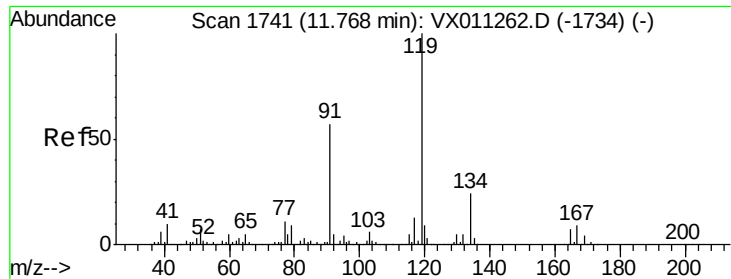
Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#

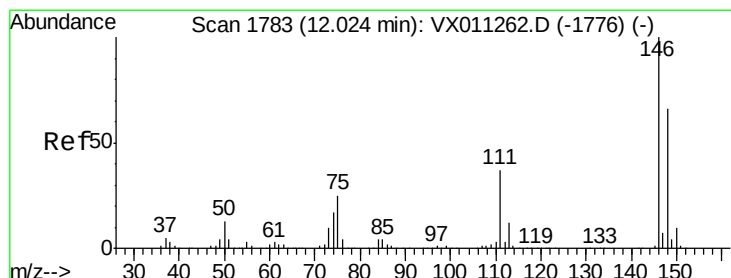
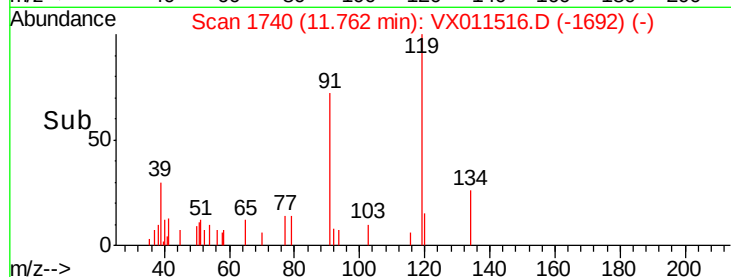
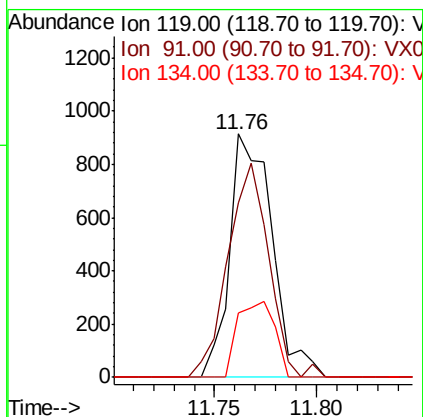
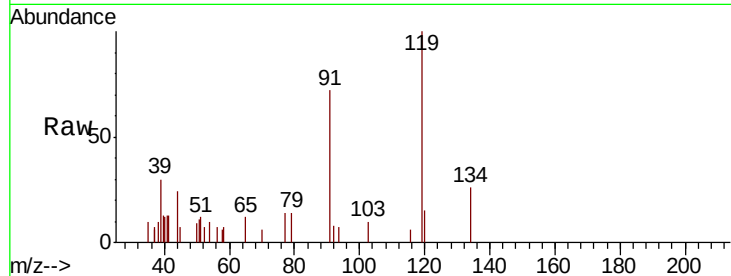




#83
 tert-Butylbenzene
 Concen: 0.213 ug/l
 RT: 11.76 min Scan# 1740
 Delta R.T. -0.01 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

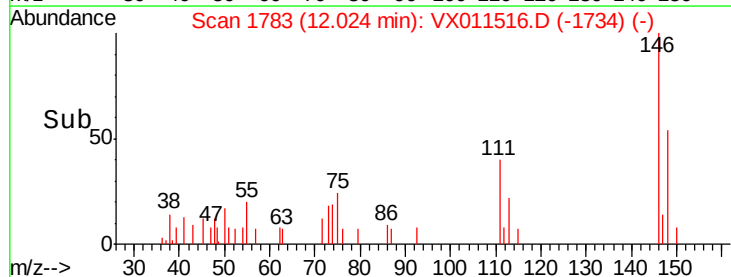
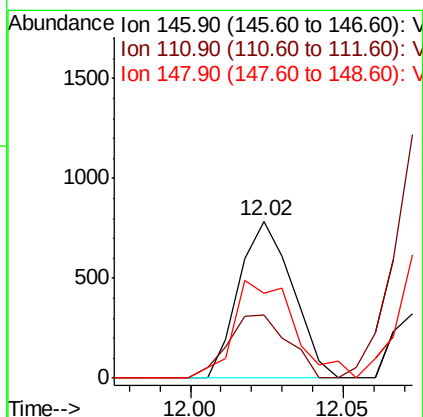
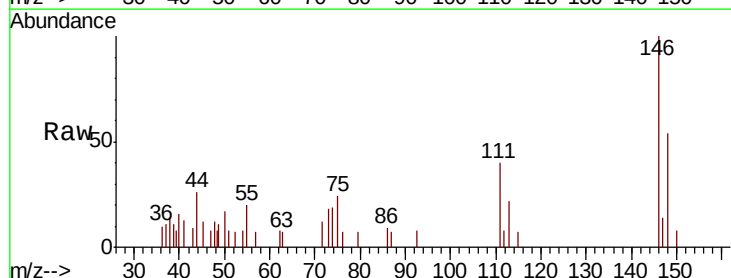
Instrument :
 MSVOA_X
 ClientSampled :
 Z3-0698

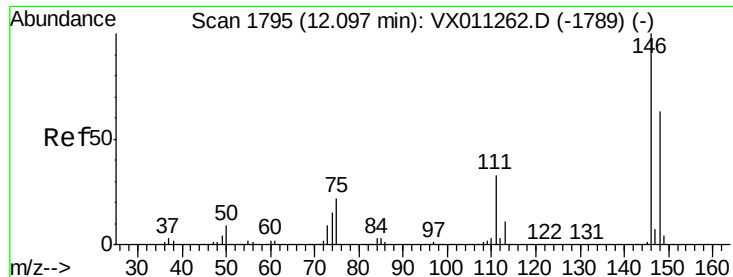
Tgt Ion:119 Resp: 1318
 Ion Ratio Lower Upper
 119 100
 91 85.0 28.0 84.0#
 134 27.1 11.9 35.5



#87
 1,3-Dichlorobenzene
 Concen: 0.259 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX011516.D
 Acq: 13 Aug 2019 04:44

Tgt Ion:146 Resp: 955
 Ion Ratio Lower Upper
 146 100
 111 45.1 18.6 55.8
 148 69.8 32.5 97.5





#88

1,4-Dichlorobenzene

Concen: 2.846 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX011516.D

Acq: 13 Aug 2019 04:44

Instrument :

MSVOA_X

ClientSampleId :

Z3-0698

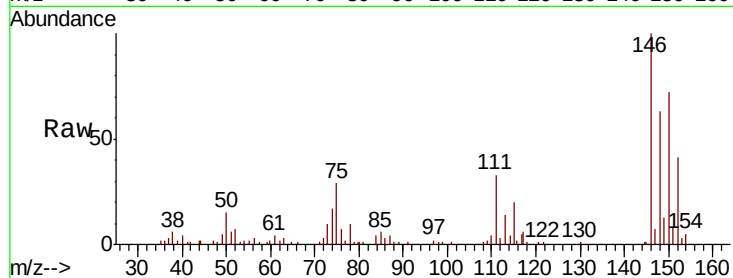
Tgt Ion:146 Resp: 10816

Ion Ratio Lower Upper

146 100

111 48.3 17.8 53.4

148 69.6 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

