

Data File : VX015601.D
Acq On : 09 Apr 2020 16:54
Operator : JC/SP
Sample : L2190-25
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
Z3-DUP-0542-200407

Quant Time: Apr 10 04:49:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1083503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1720691	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1675636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	923339	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	717898	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	
35) Dibromofluoromethane	5.47	113	543242	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	8.70	98	2082734	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	11.12	95	902096	54.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.62%	

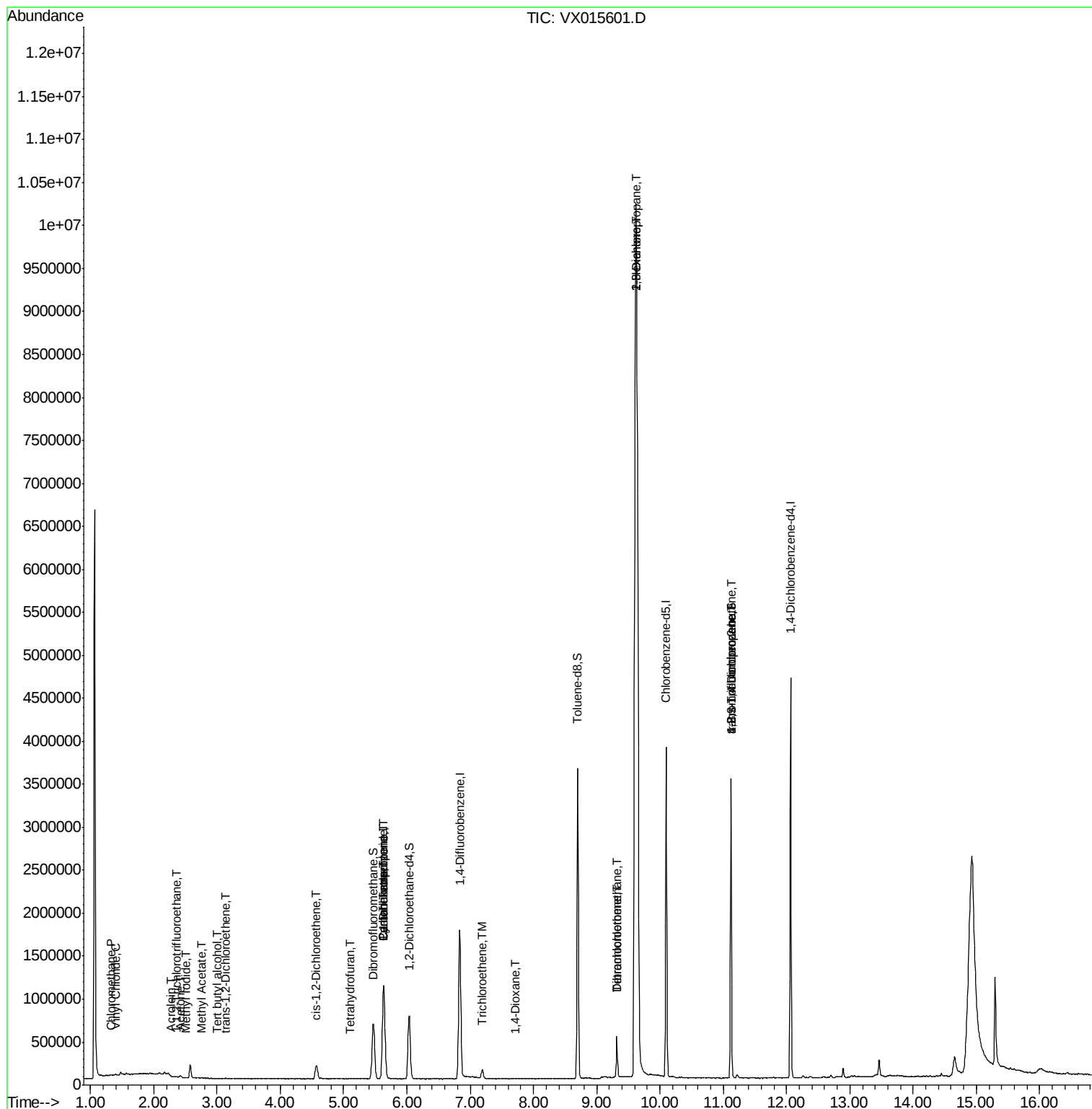
Target Compounds					Qvalue	
3) Chloromethane	1.32	50	2961	0.244	ug/l #	64
4) Vinyl Chloride	1.39	62	8959	0.803	ug/l	93
5) Bromomethane	1.64	94	1464	Below Cal	#	53
9) 1,1,2-Trichlorotrifluoroet	2.36	101	4152	0.425	ug/l #	64
10) Methyl Iodide	2.50	142	2710	0.206	ug/l #	58
11) Tert butyl alcohol	3.01	59	1571	0.429	ug/l #	73
13) Acrolein	2.27	56	1485	0.713	ug/l #	14
16) Acetone	2.42	43	29542	4.500	ug/l	92
18) Methyl Acetate	2.75	43	3689	0.220	ug/l	92
21) trans-1,2-Dichloroethene	3.14	96	2934	0.258	ug/l #	73
27) cis-1,2-Dichloroethene	4.57	96	101839	7.754	ug/l	91
29) Tetrahydrofuran	5.11	42	1714	0.253	ug/l #	36
31) Cyclohexane	5.63	56	22368	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	79382	5.007	ug/l #	54
38) Carbon Tetrachloride	5.64	117	105719	6.157	ug/l #	15
44) Trichloroethene	7.19	130	38356	3.028	ug/l	99
49) 1,4-Dioxane	7.72	88	697	2.147	ug/l #	57
57) 1,3-Dichloropropane	9.62	76	76424	3.616	ug/l #	43
59) 2-Hexanone	9.62	43	4714013	316.160	ug/l #	33
60) Dibromochloromethane	9.32	129	83188	5.901	ug/l #	13
64) Tetrachloroethene	9.32	164	86798	6.864	ug/l	86
76) 1,2,3-Trichloropropane	11.12	75	459905	24.221	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	459905	58.118	ug/l #	10

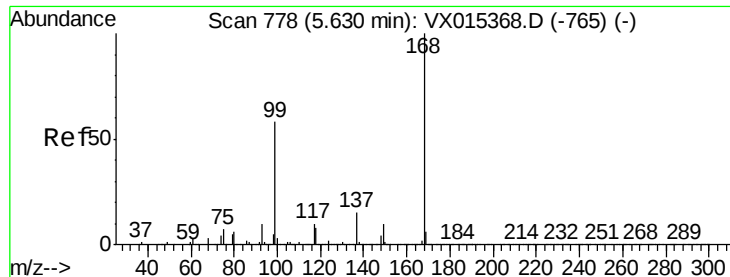
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

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Instrument :

MSVOA_X

ClientSampleId :

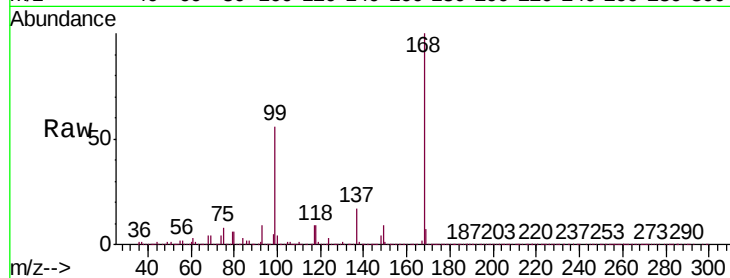
Z3-DUP-0542-200407

Tgt Ion:168 Resp: 1083503

Ion Ratio Lower Upper

168 100

99 56.3 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

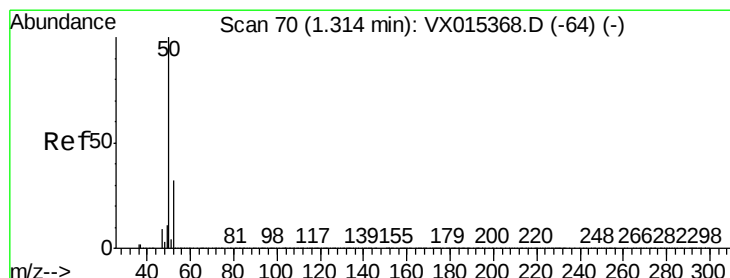
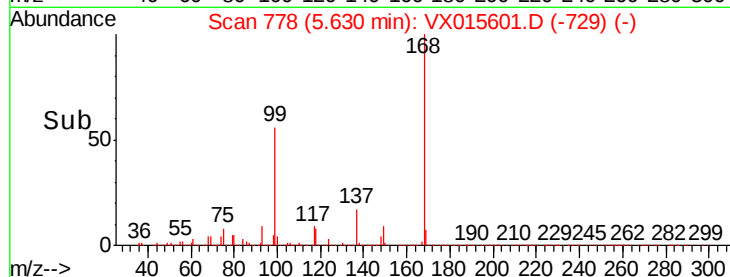
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.244 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX015601.D

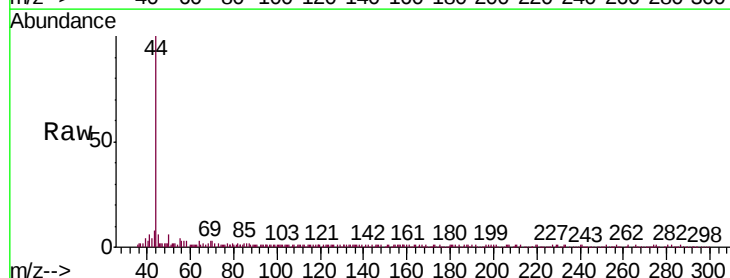
Acq: 09 Apr 2020 16:54

Tgt Ion: 50 Resp: 2961

Ion Ratio Lower Upper

50 100

52 51.3 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

1500

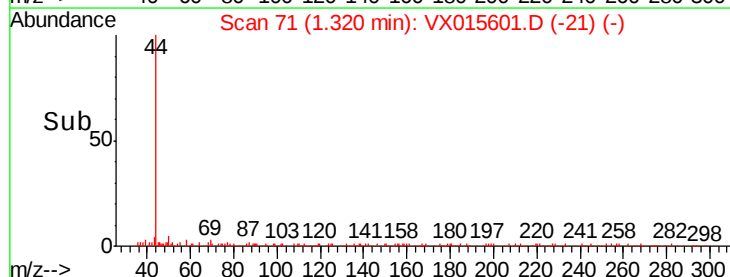
1000

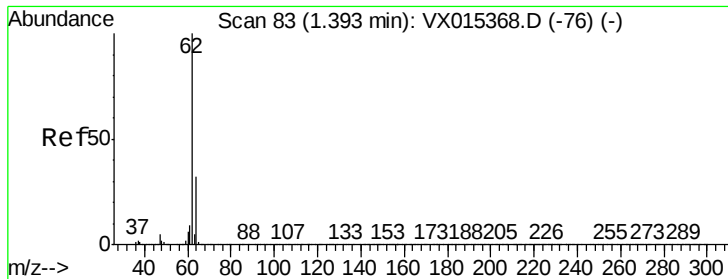
500

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 0.803 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

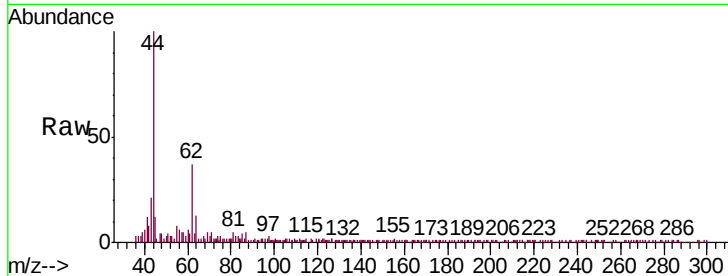
Z3-DUP-0542-200407

Tgt Ion: 62 Resp: 8959

Ion Ratio Lower Upper

62 100

64 28.6 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

8000

6000

4000

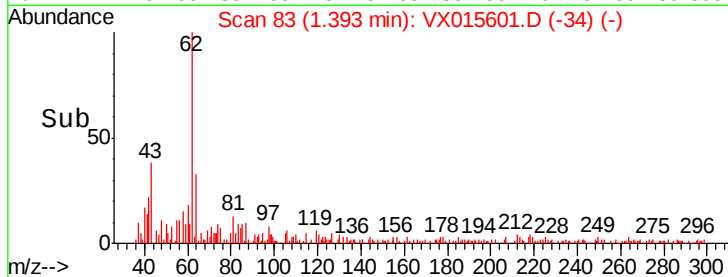
2000

0

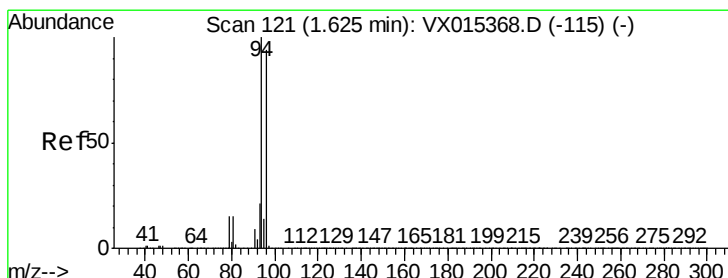
1.35

1.40

1.45



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015601.D

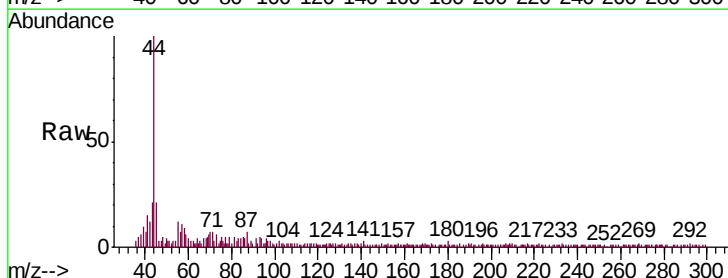
Acq: 09 Apr 2020 16:54

Tgt Ion: 94 Resp: 1464

Ion Ratio Lower Upper

94 100

96 47.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

400

200

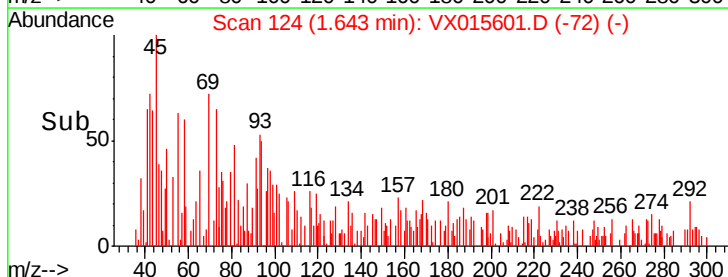
0

1.60

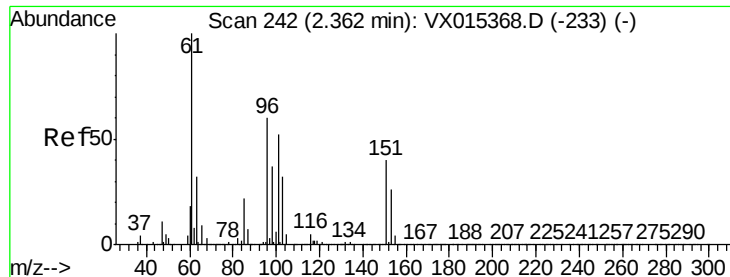
1.62

1.64

1.66



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.425 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

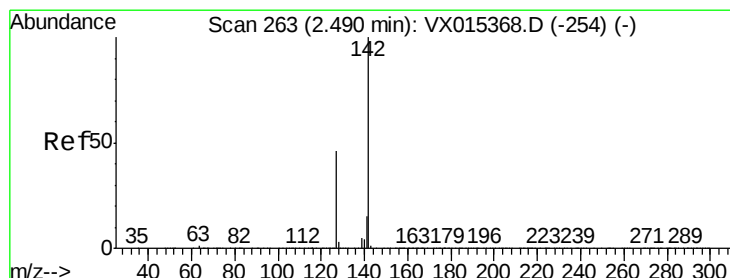
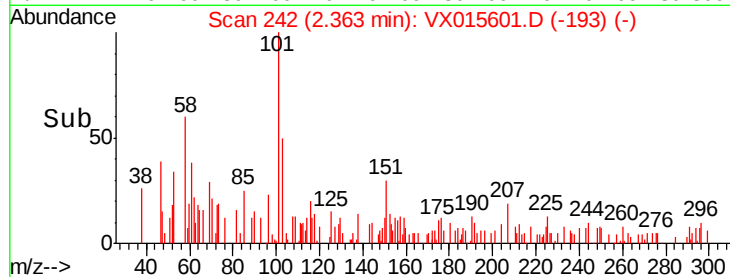
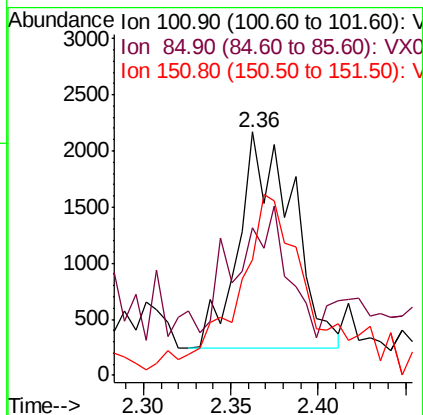
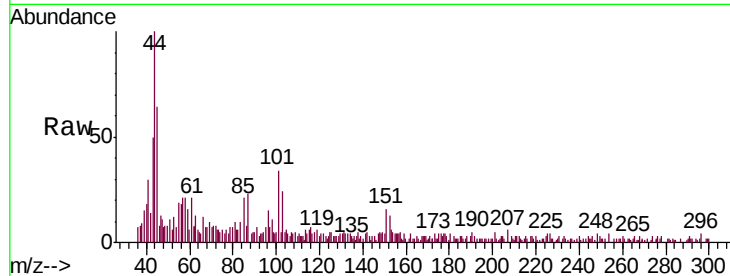
Instrument :

MSVOA_X

ClientSampleId :

Z3-DUP-0542-200407

Tgt Ion:	101	Resp:	4152
Ion Ratio	Lower	Upper	
101	100		
85	58.4	35.0	52.4#
151	118.1	64.1	96.1#



#10

Methyl Iodide

Concen: 0.206 ug/l

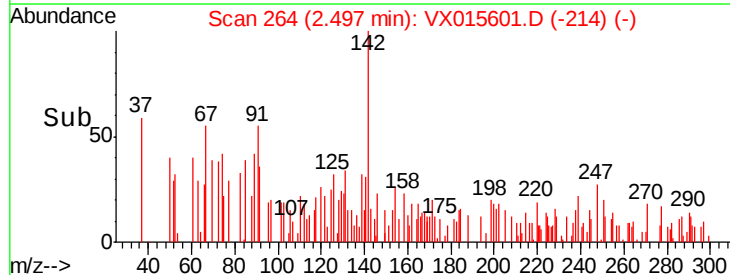
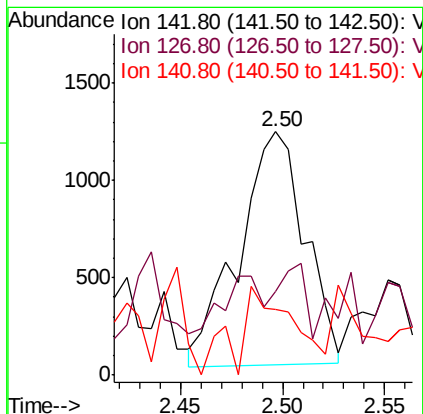
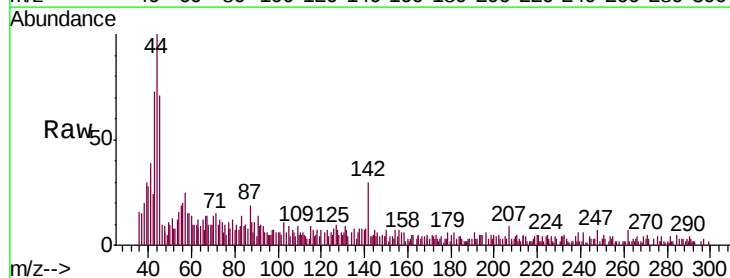
RT: 2.50 min Scan# 264

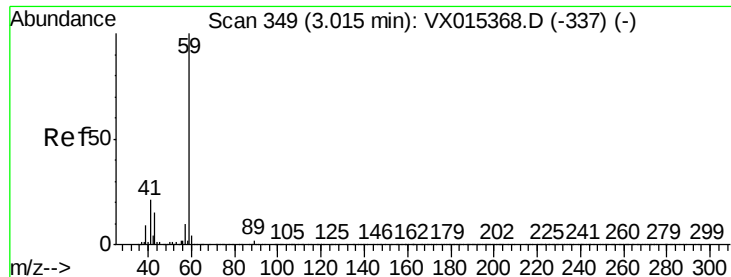
Delta R.T. 0.01 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Tgt Ion:	142	Resp:	2710
Ion Ratio	Lower	Upper	
142	100		
127	15.8	35.9	53.9#
141	0.0	11.6	17.4#



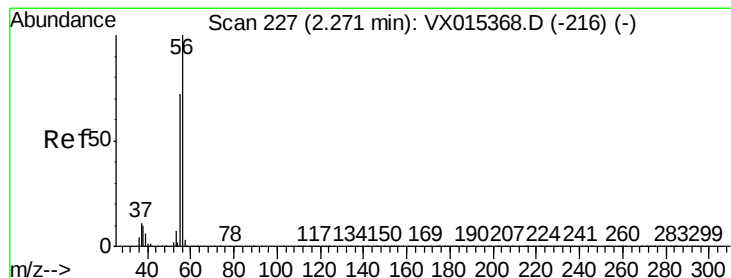
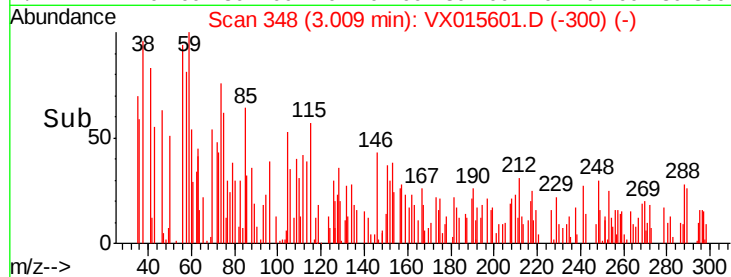
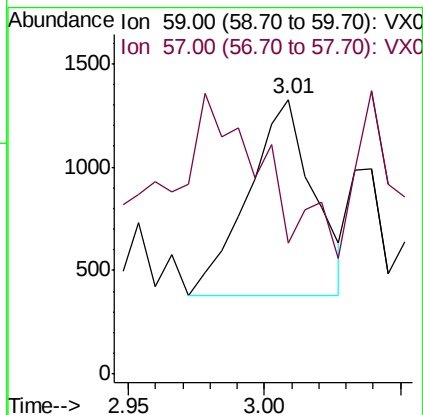
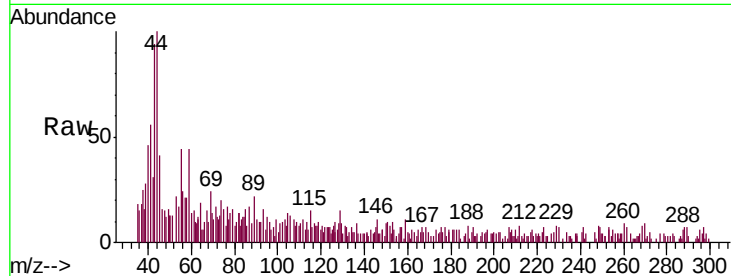


#11

Tert butyl alcohol
Concen: 0.429 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX015601.D
Acq: 09 Apr 2020 16:54

Instrument :
MSVOA_X
ClientSampleId :
Z3-DUP-0542-200407

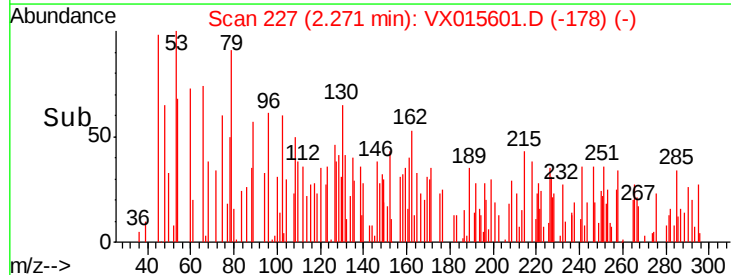
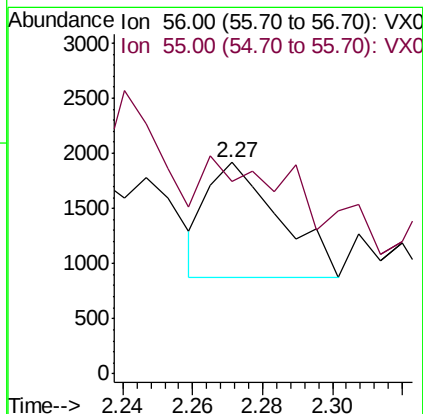
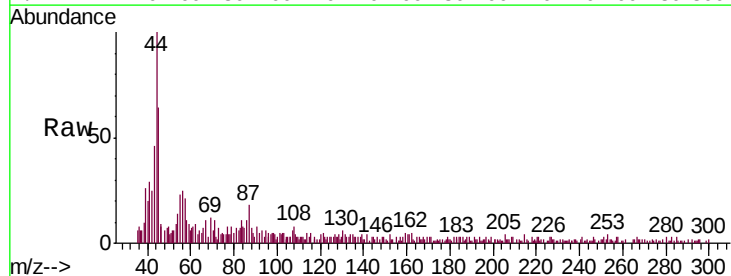
Tgt Ion: 59 Resp: 1571
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

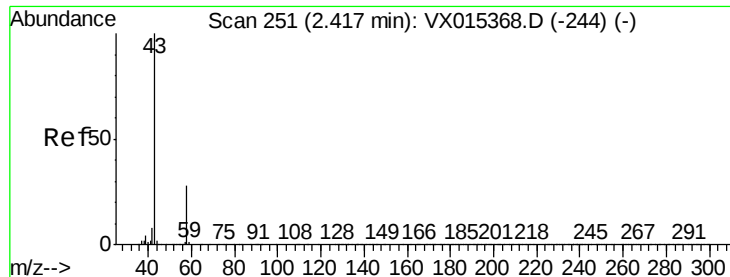


#13

Acrolein
Concen: 0.713 ug/l
RT: 2.27 min Scan# 227
Delta R.T. 0.00 min
Lab File: VX015601.D
Acq: 09 Apr 2020 16:54

Tgt Ion: 56 Resp: 1485
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 4.500 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

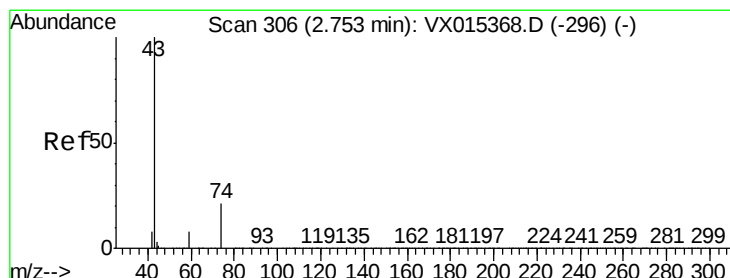
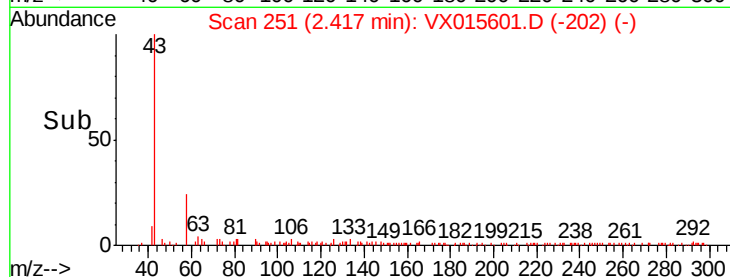
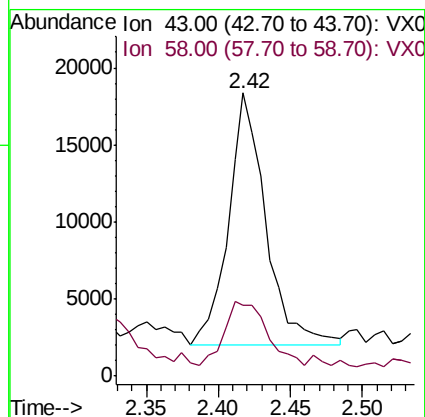
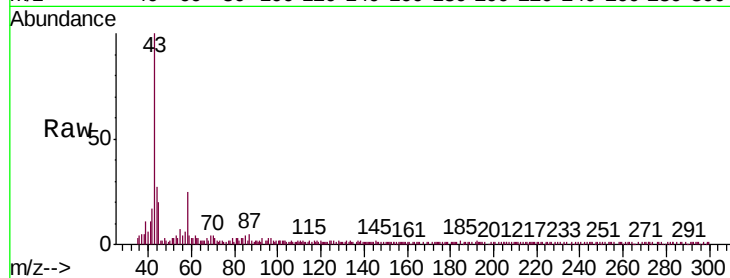
Z3-DUP-0542-200407

Tgt Ion: 43 Resp: 29542

Ion Ratio Lower Upper

43 100

58 23.2 22.1 33.1



#18

Methyl Acetate

Concen: 0.220 ug/l

RT: 2.75 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX015601.D

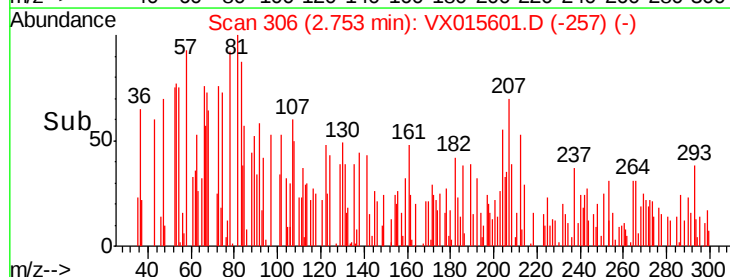
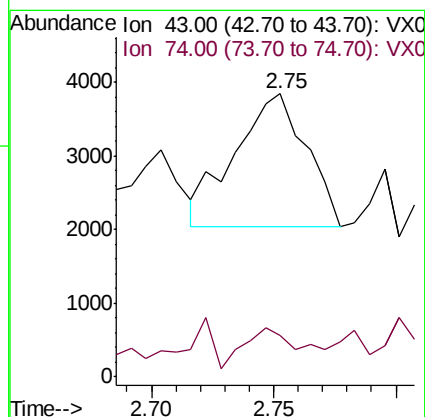
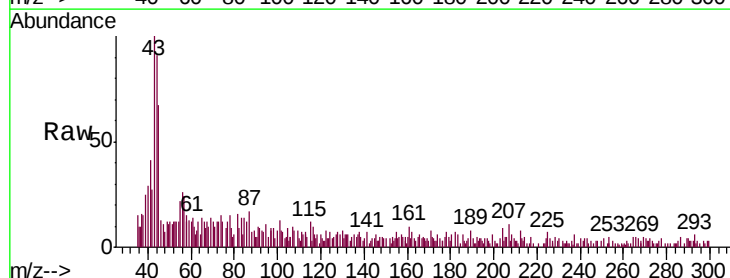
Acq: 09 Apr 2020 16:54

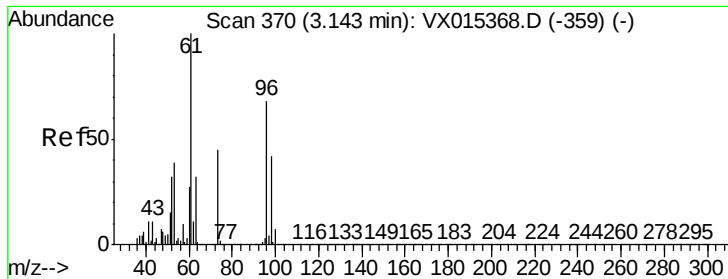
Tgt Ion: 43 Resp: 3689

Ion Ratio Lower Upper

43 100

74 24.5 16.5 24.7





#21

trans-1,2-Dichloroethene

Concen: 0.258 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

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ClientSampleId :

Z3-DUP-0542-200407

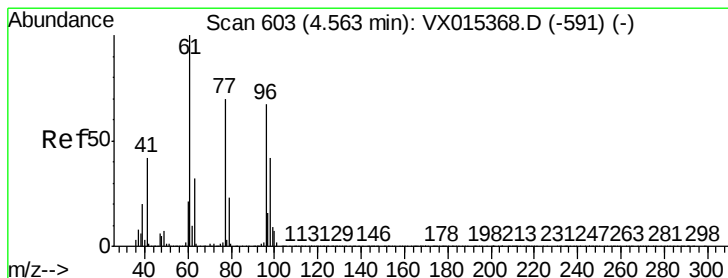
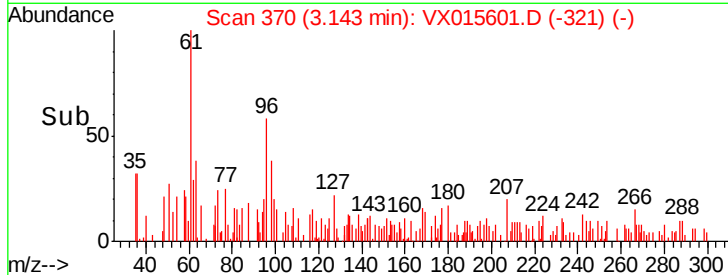
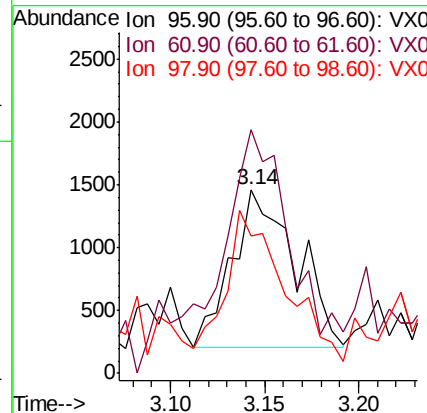
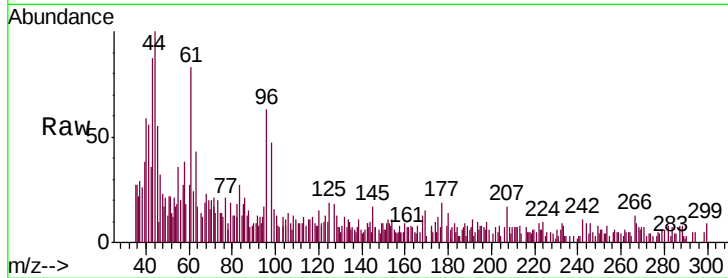
Tgt Ion: 96 Resp: 2934

Ion Ratio Lower Upper

96 100

61 110.9 116.9 175.3#

98 79.9 48.6 73.0#



#27

cis-1,2-Dichloroethene

Concen: 7.754 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

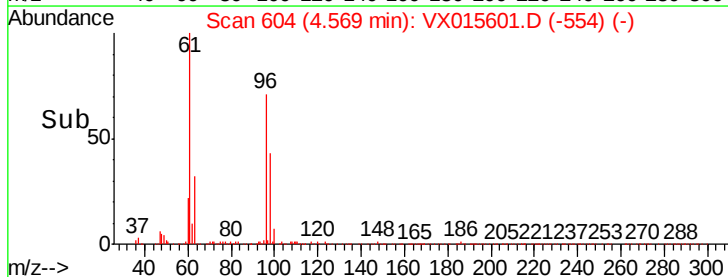
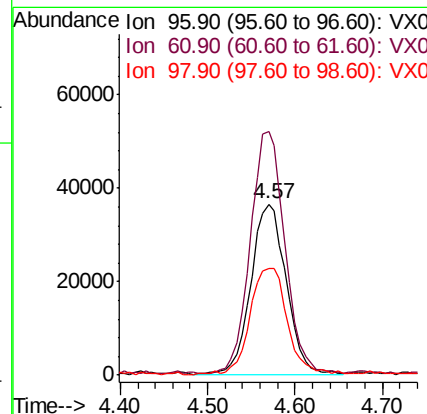
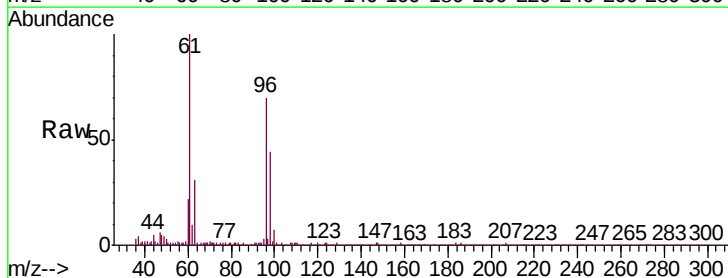
Tgt Ion: 96 Resp: 101839

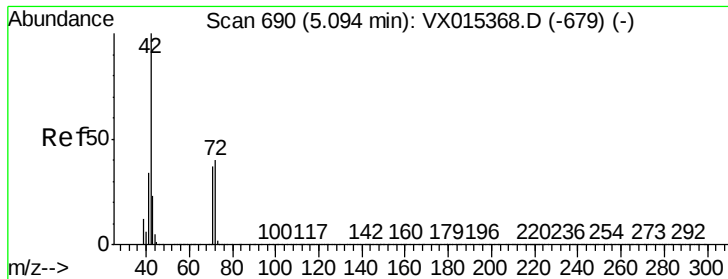
Ion Ratio Lower Upper

96 100

61 138.9 0.0 308.4

98 65.8 0.0 129.2





#29

Tetrahydrofuran

Concen: 0.253 ug/l

RT: 5.11 min Scan# 692

Delta R.T. 0.01 min

Lab File: VX015601.D

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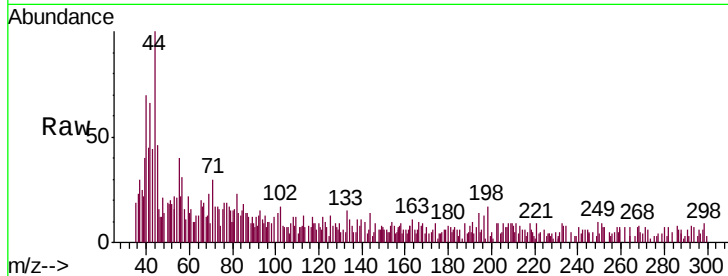
Tgt Ion: 42 Resp: 1714

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

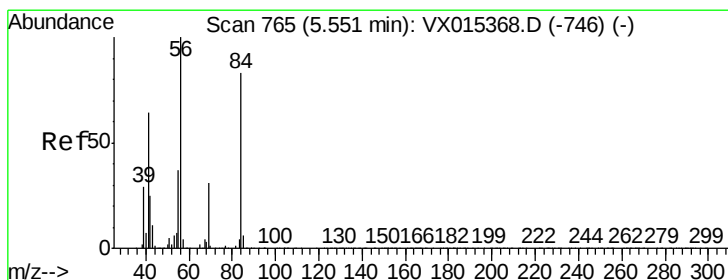
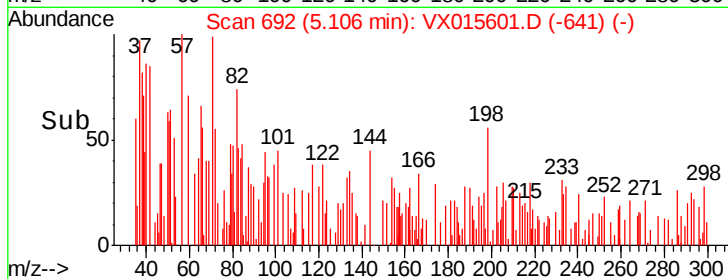
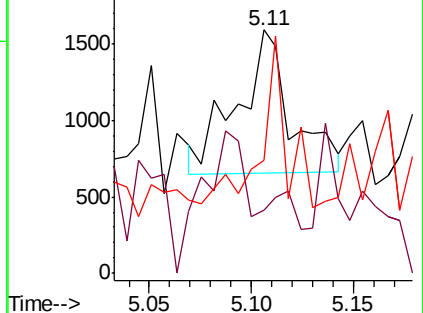
71 74.3 29.6 44.4#



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: 1.156 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.08 min

Lab File: VX015601.D

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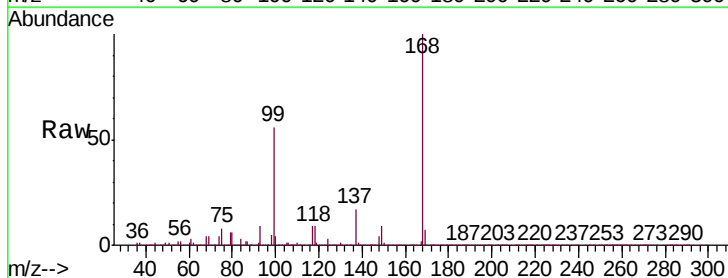
Tgt Ion: 56 Resp: 22368

Ion Ratio Lower Upper

56 100

69 190.1 24.6 36.8#

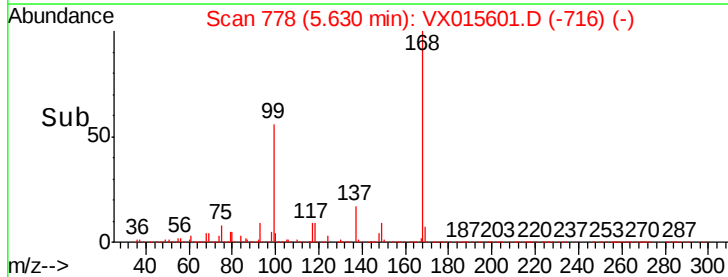
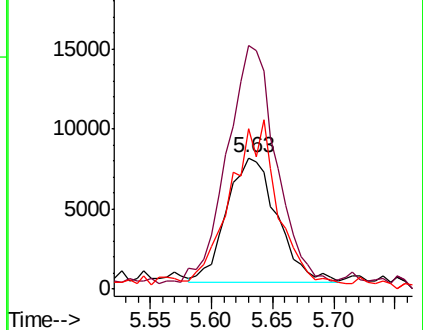
84 125.7 66.1 99.1#

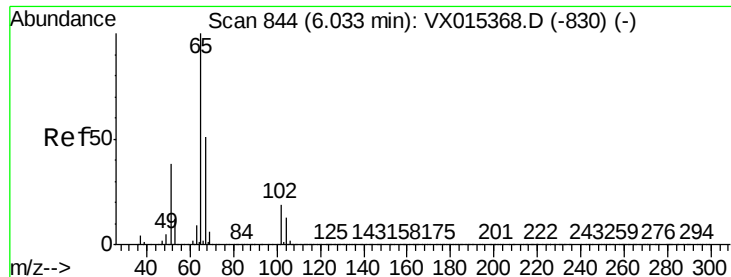


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.978 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

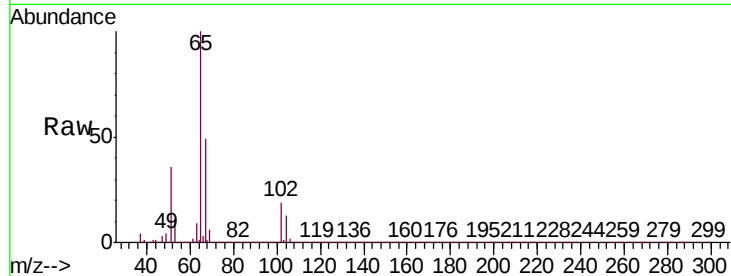
Z3-DUP-0542-200407

Tgt Ion: 65 Resp: 717898

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

300000

250000

200000

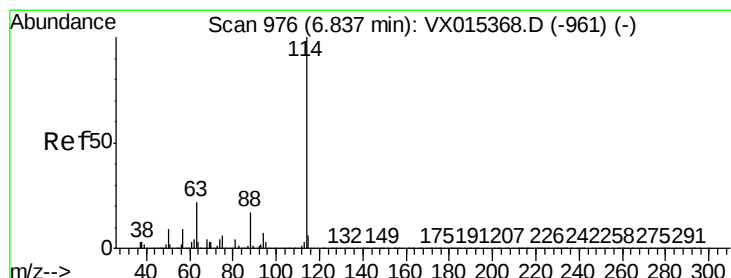
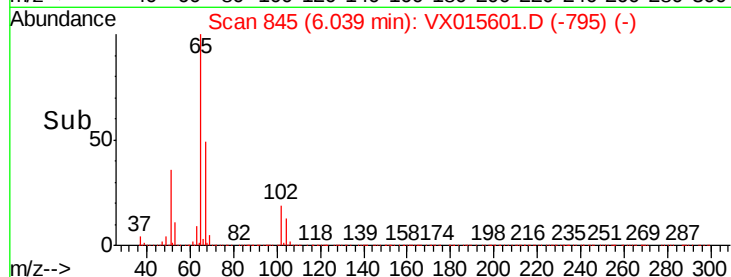
150000

100000

50000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

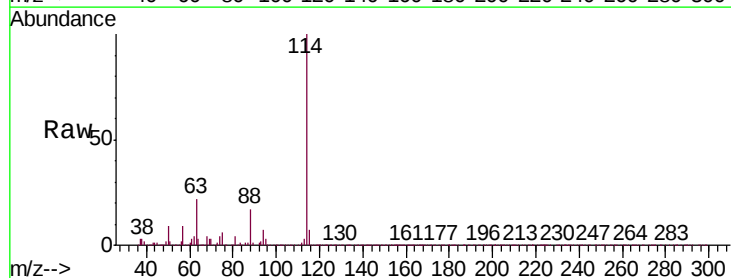
Tgt Ion: 114 Resp: 1720691

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.2

88 16.6 0.0 33.8



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

1000000

800000

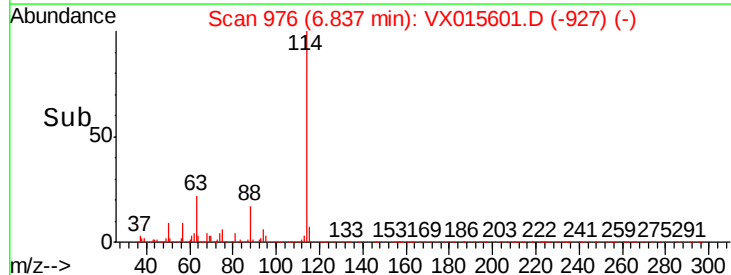
600000

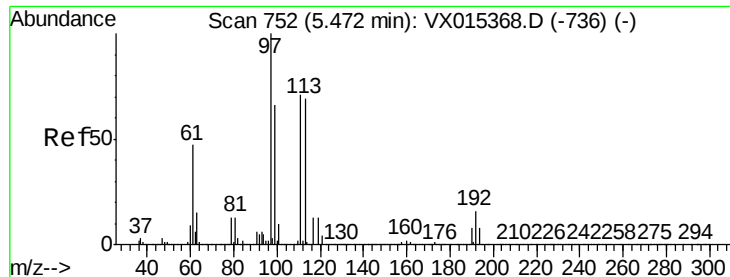
400000

200000

0

Time--> 6.70 6.80 6.90 7.00

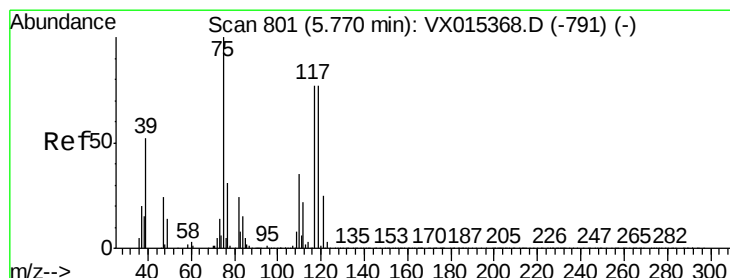
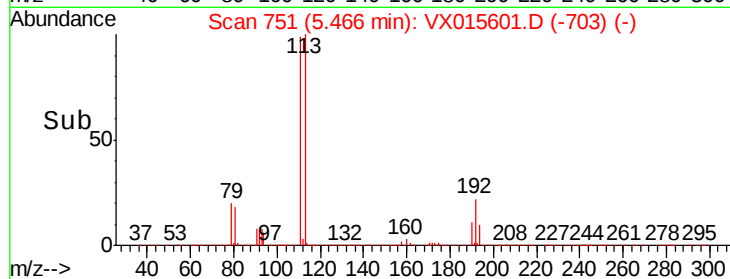
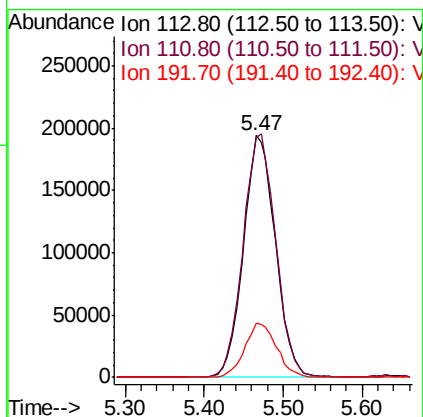
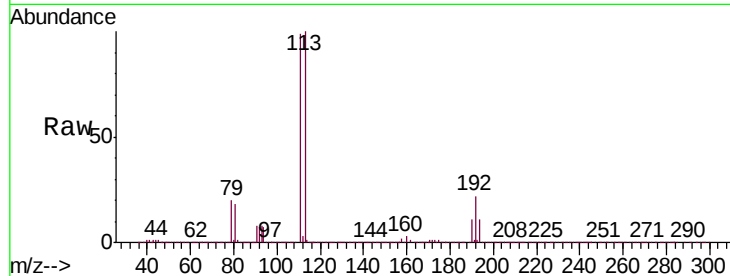




#35
 Dibromofluoromethane
 Concen: 49.390 ug/l
 RT: 5.47 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: VX015601.D
 Acq: 09 Apr 2020 16:54

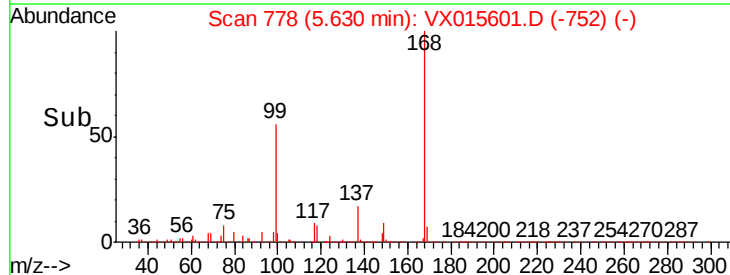
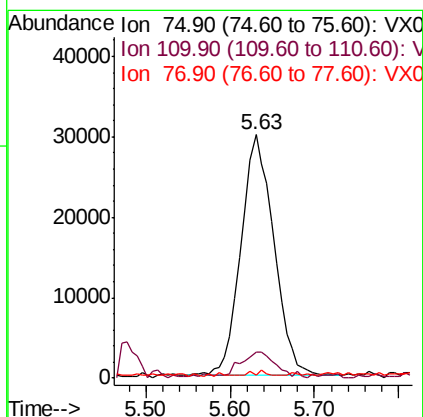
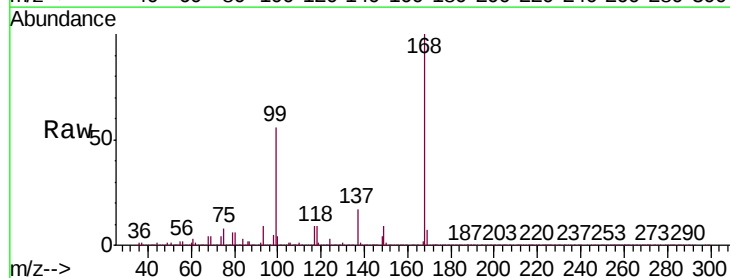
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-DUP-0542-200407

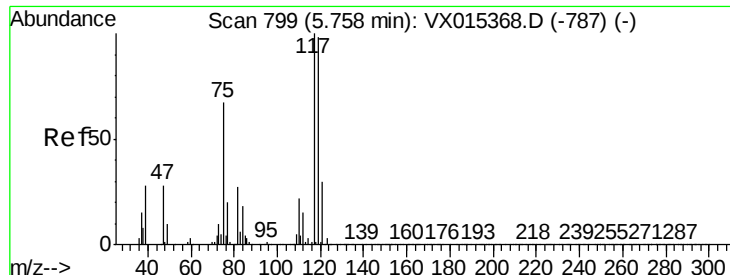
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.5	122.3
192	22.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.007 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015601.D
 Acq: 09 Apr 2020 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.8	17.1	51.3#
77	0.7	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.157 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

Z3-DUP-0542-200407

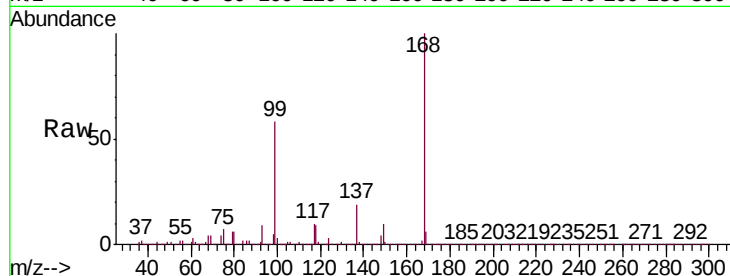
Tgt Ion:117 Resp: 105719

Ion Ratio Lower Upper

117 100

119 5.3 78.0 117.0#

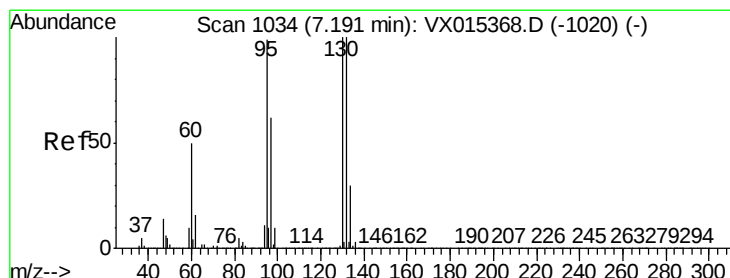
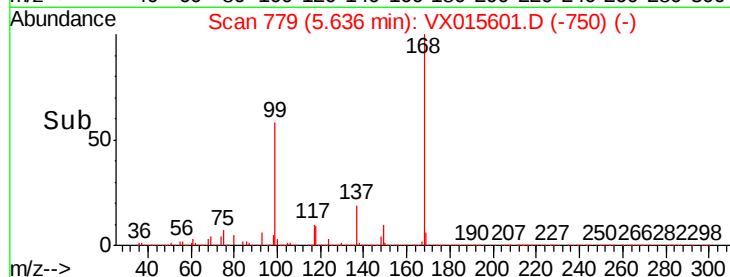
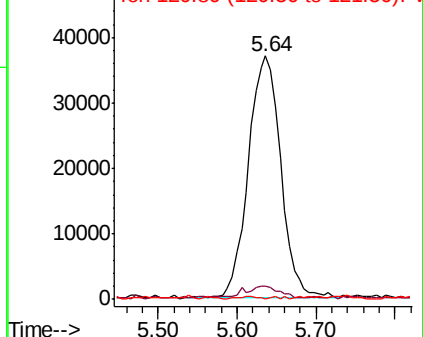
121 0.0 23.8 35.8#



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



#44

Trichloroethene

Concen: 3.028 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VX015601.D

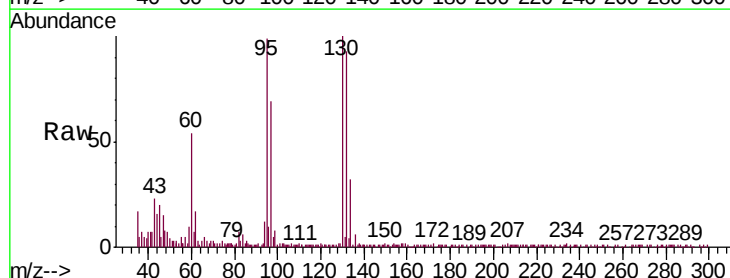
Acq: 09 Apr 2020 16:54

Tgt Ion:130 Resp: 38356

Ion Ratio Lower Upper

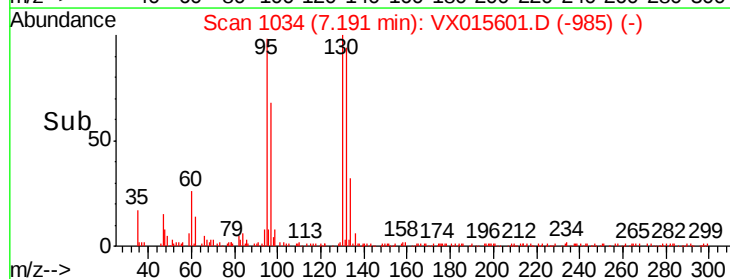
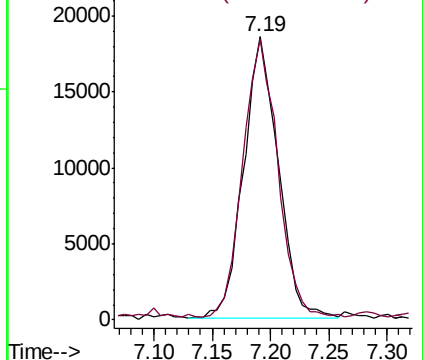
130 100

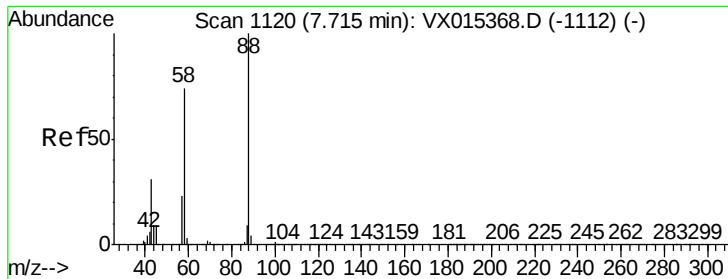
95 98.1 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 2.147 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

Z3-DUP-0542-200407

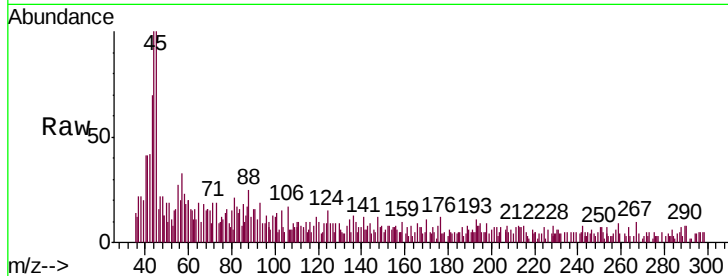
Tgt Ion: 88 Resp: 697

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

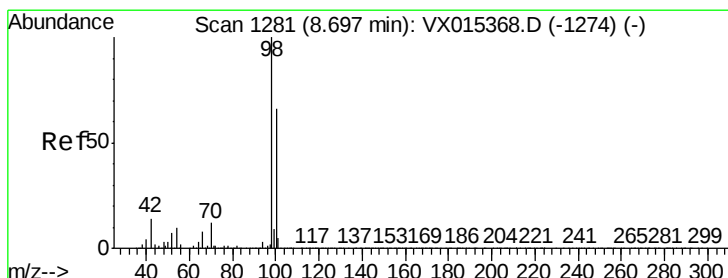
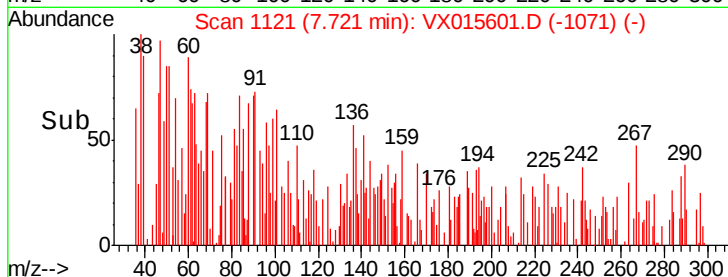
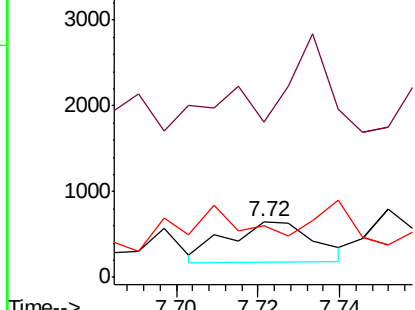
58 103.9 60.6 90.8#



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: 51.431 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015601.D

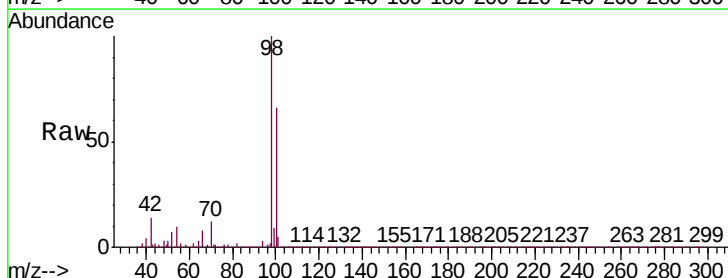
Acq: 09 Apr 2020 16:54

Tgt Ion: 98 Resp: 2082734

Ion Ratio Lower Upper

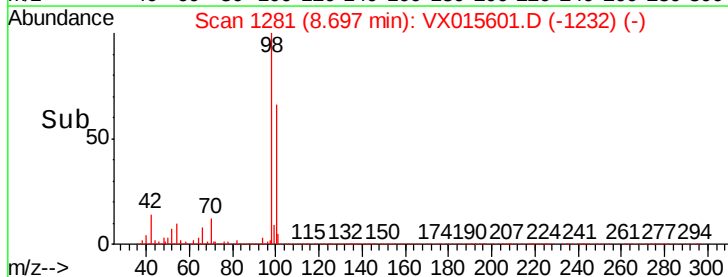
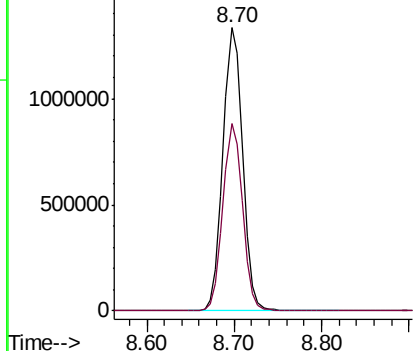
98 100

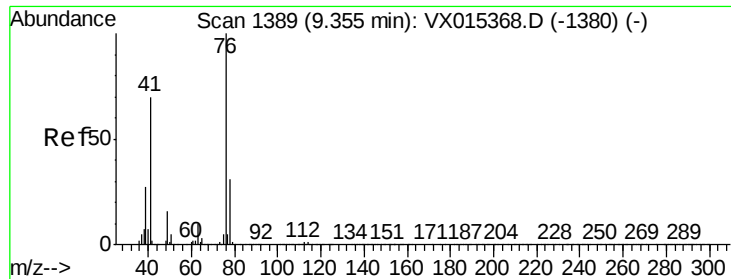
100 66.0 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#57

1,3-Dichloropropane

Concen: 3.616 ug/l

RT: 9.62 min Scan# 1433

Delta R.T. 0.27 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

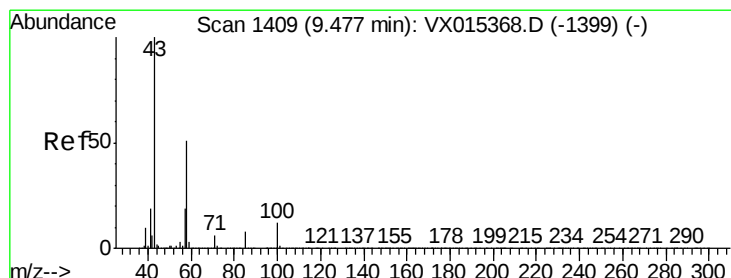
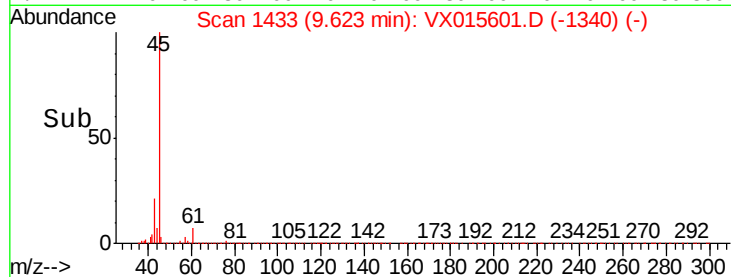
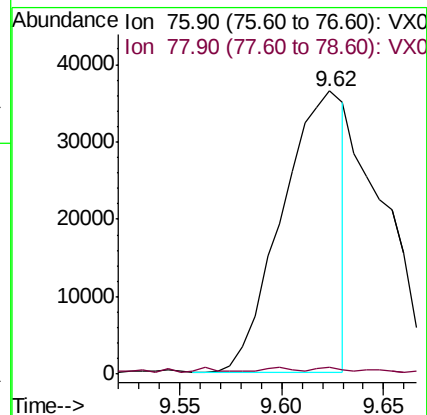
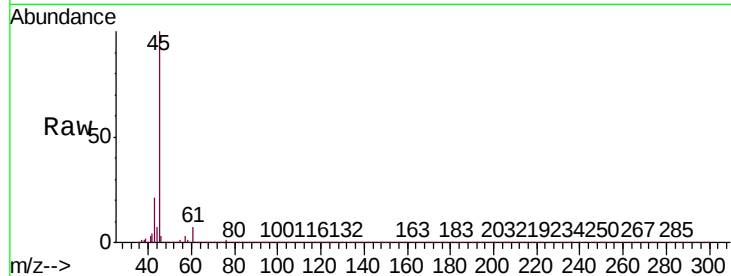
Z3-DUP-0542-200407

Tgt Ion: 76 Resp: 76424

Ion Ratio Lower Upper

76 100

78 0.5 25.8 38.8#



#59

2-Hexanone

Concen: 316.160 ug/l

RT: 9.62 min Scan# 1433

Delta R.T. 0.15 min

Lab File: VX015601.D

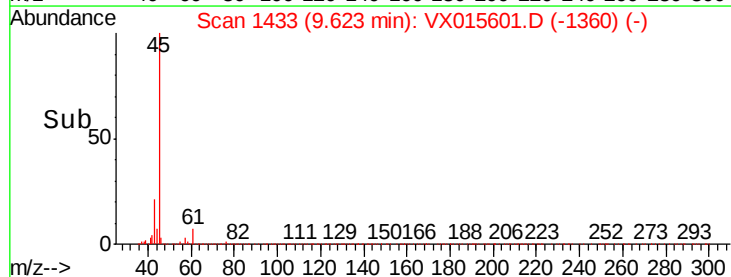
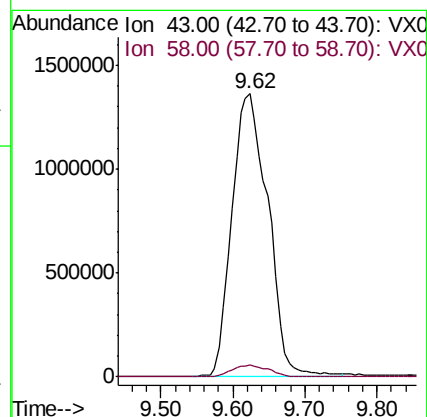
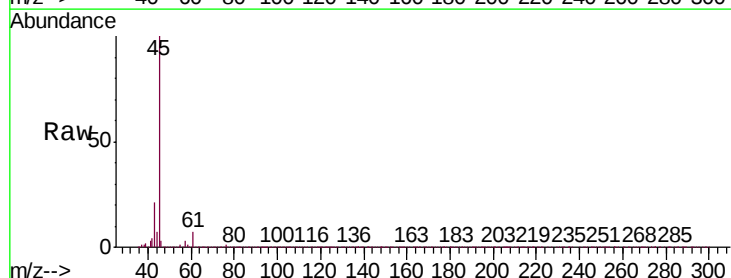
Acq: 09 Apr 2020 16:54

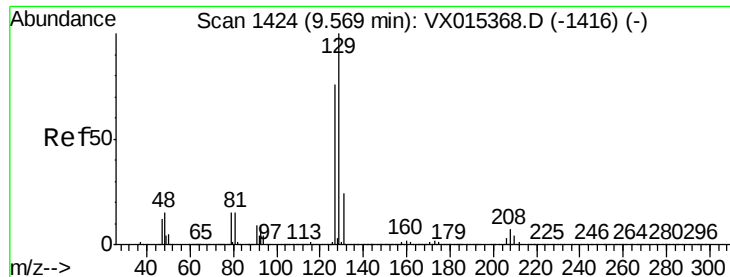
Tgt Ion: 43 Resp: 4714013

Ion Ratio Lower Upper

43 100

58 4.3 25.6 76.6#





#60

Dibromochloromethane

Concen: 5.901 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.25 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

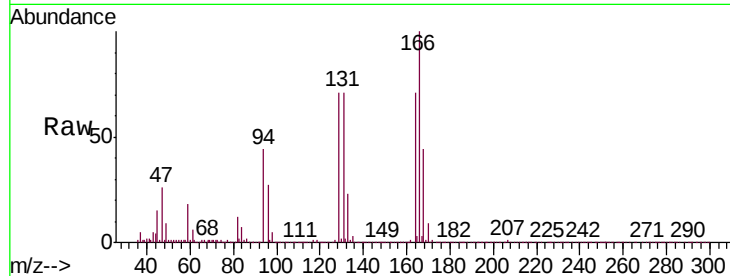
Z3-DUP-0542-200407

Tgt Ion:129 Resp: 83188

Ion Ratio Lower Upper

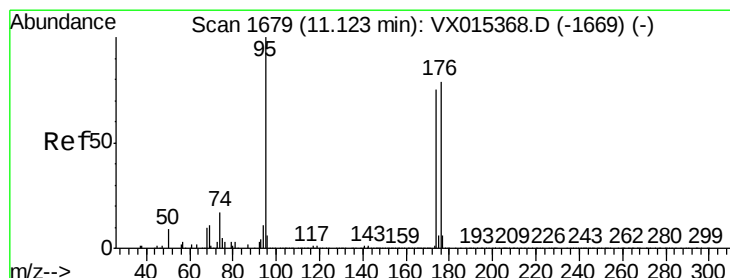
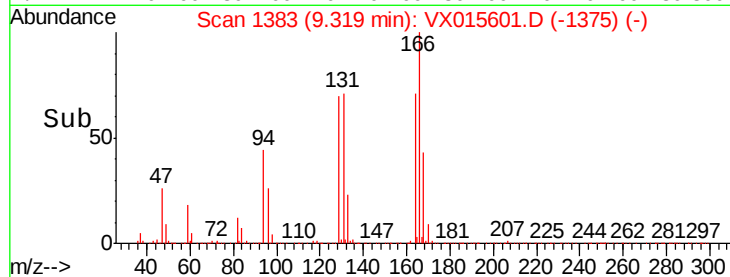
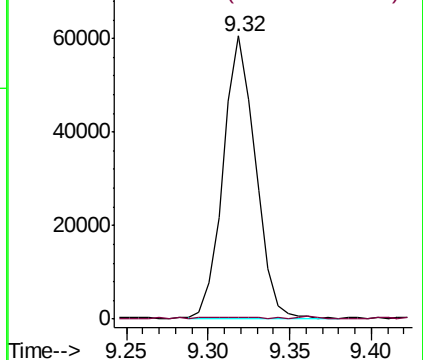
129 100

127 1.2 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 54.813 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

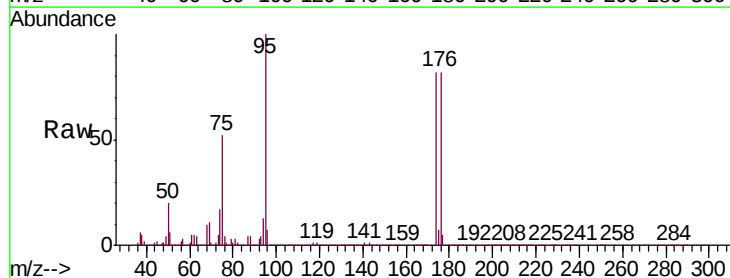
Tgt Ion: 95 Resp: 902096

Ion Ratio Lower Upper

95 100

174 82.6 0.0 158.6

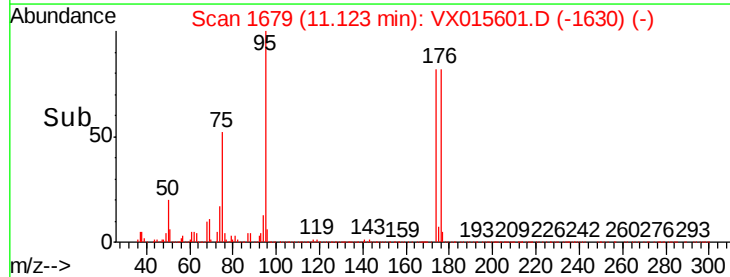
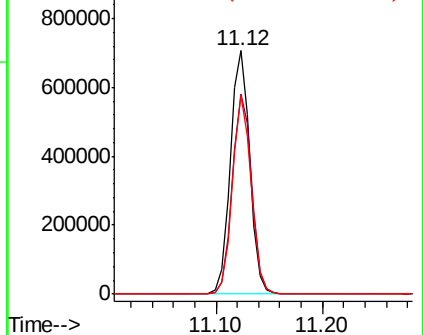
176 79.0 0.0 159.0

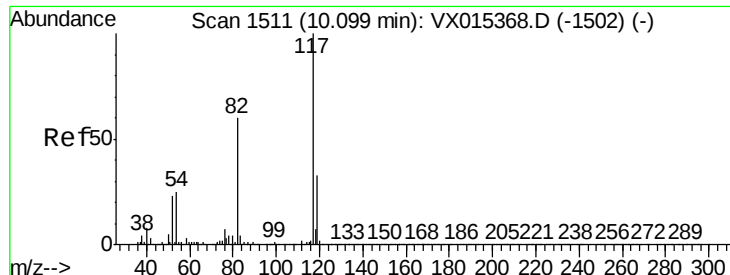


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

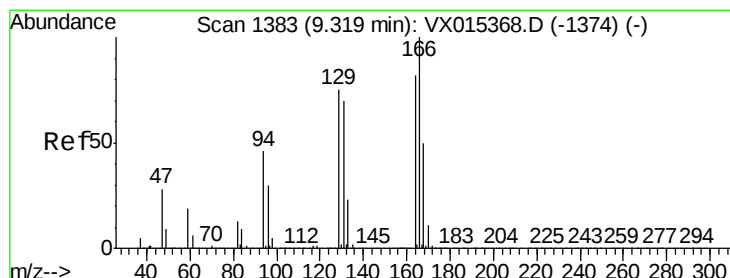
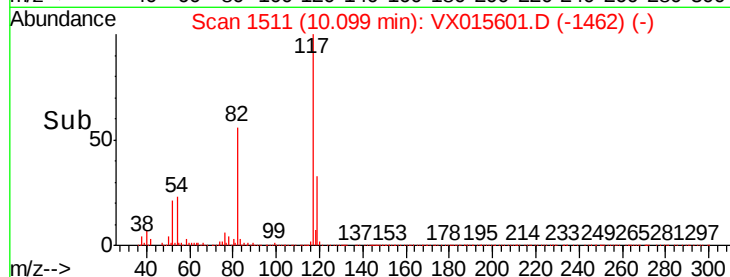
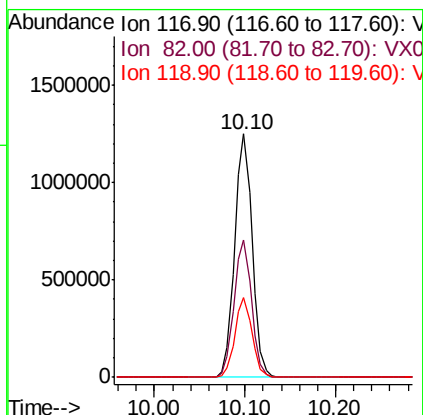
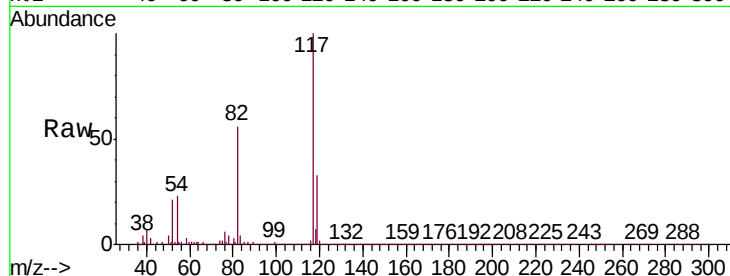




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015601.D
Acq: 09 Apr 2020 16:54

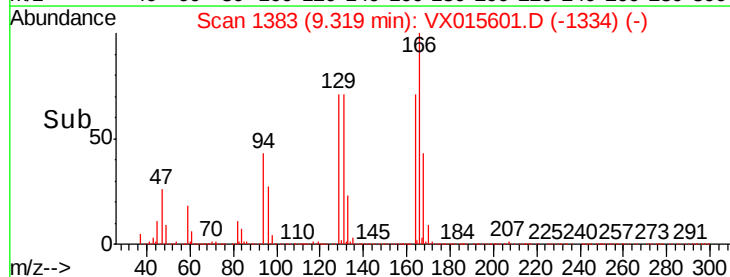
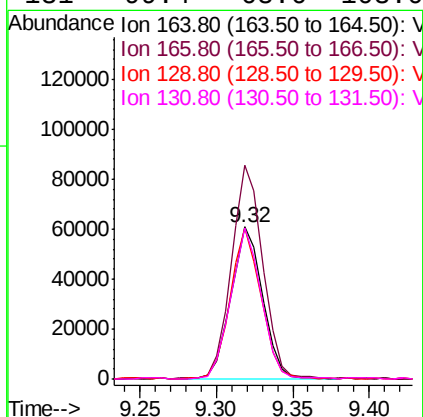
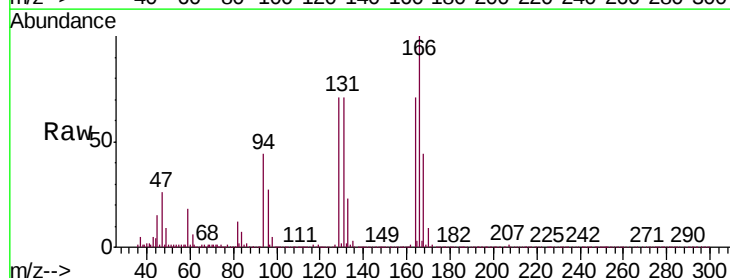
Instrument :
MSVOA_X
ClientSampleId :
Z3-DUP-0542-200407

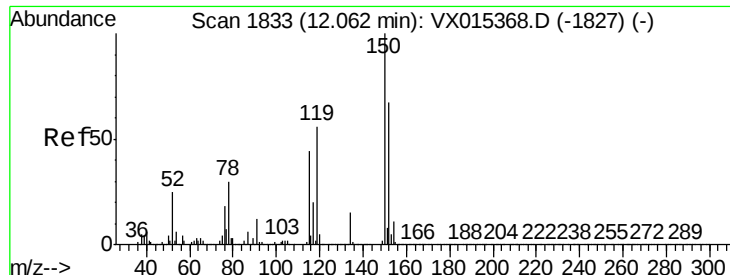
Tgt Ion:117 Resp: 1675636
Ion Ratio Lower Upper
117 100
82 56.4 47.8 71.8
119 32.9 26.8 40.2



#64
Tetrachloroethene
Concen: 6.864 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX015601.D
Acq: 09 Apr 2020 16:54

Tgt Ion:164 Resp: 86798
Ion Ratio Lower Upper
164 100
166 140.5 97.8 146.6
129 99.4 73.0 109.4
131 99.4 68.6 103.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

Z3-DUP-0542-200407

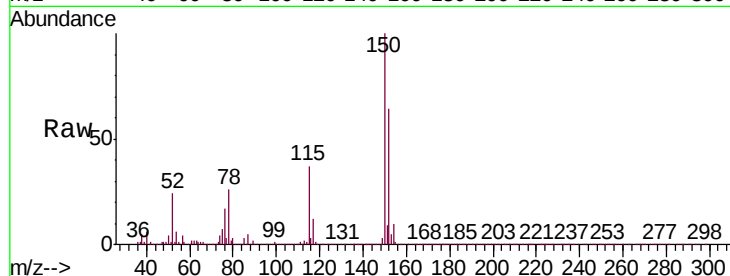
Tgt Ion: 152 Resp: 923339

Ion Ratio Lower Upper

152 100

115 58.3 39.0 116.9

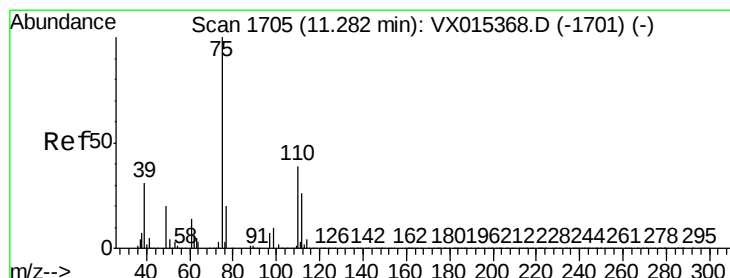
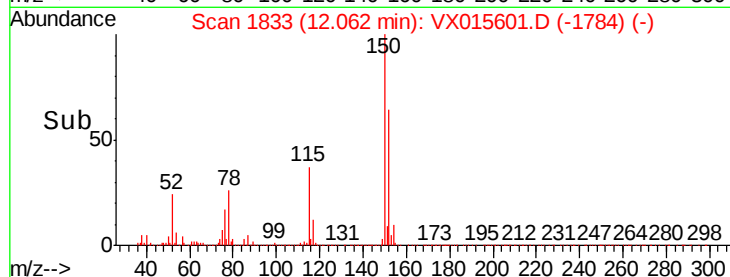
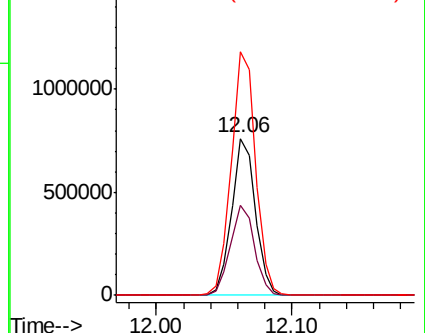
150 158.8 0.0 340.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.221 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015601.D

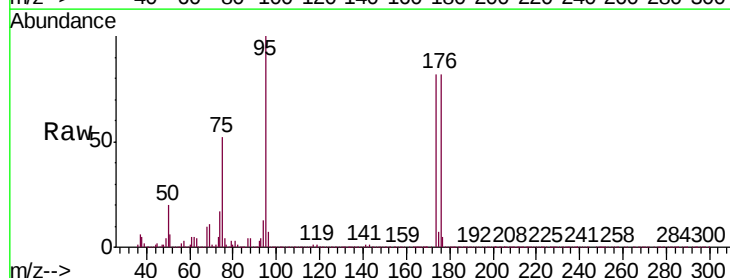
Acq: 09 Apr 2020 16:54

Tgt Ion: 75 Resp: 459905

Ion Ratio Lower Upper

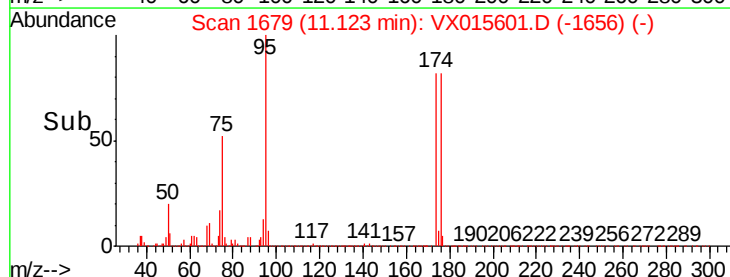
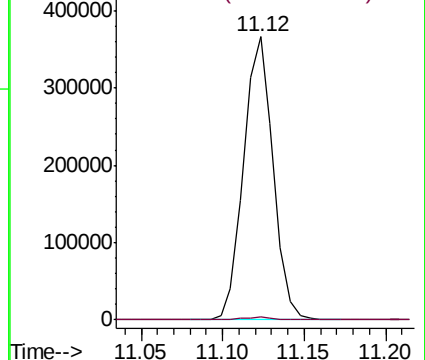
75 100

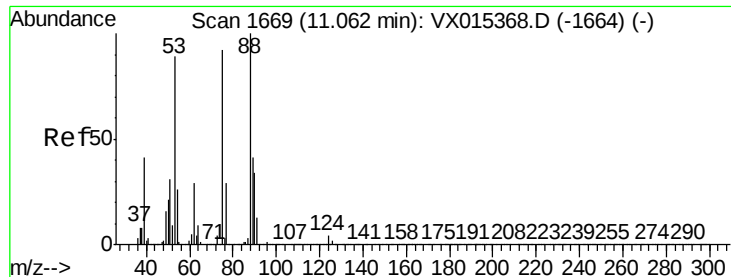
77 1.3 21.2 63.6#



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: 58.118 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015601.D

Acq: 09 Apr 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

Z3-DUP-0542-200407

Tgt Ion: 75 Resp: 459905

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#

