

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX033020\
 Data File : VX015431.D
 Acq On : 30 Mar 2020 16:27
 Operator : JC/SP
 Sample : L2022-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 31 08:52:45 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	1124660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1827423	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1782723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	951448	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	766553	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	5.47	113	578494	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	8.70	98	2230111	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	964318	55.17	ug/l	0.00
Spiked Amount			Recovery	=	110.34%	

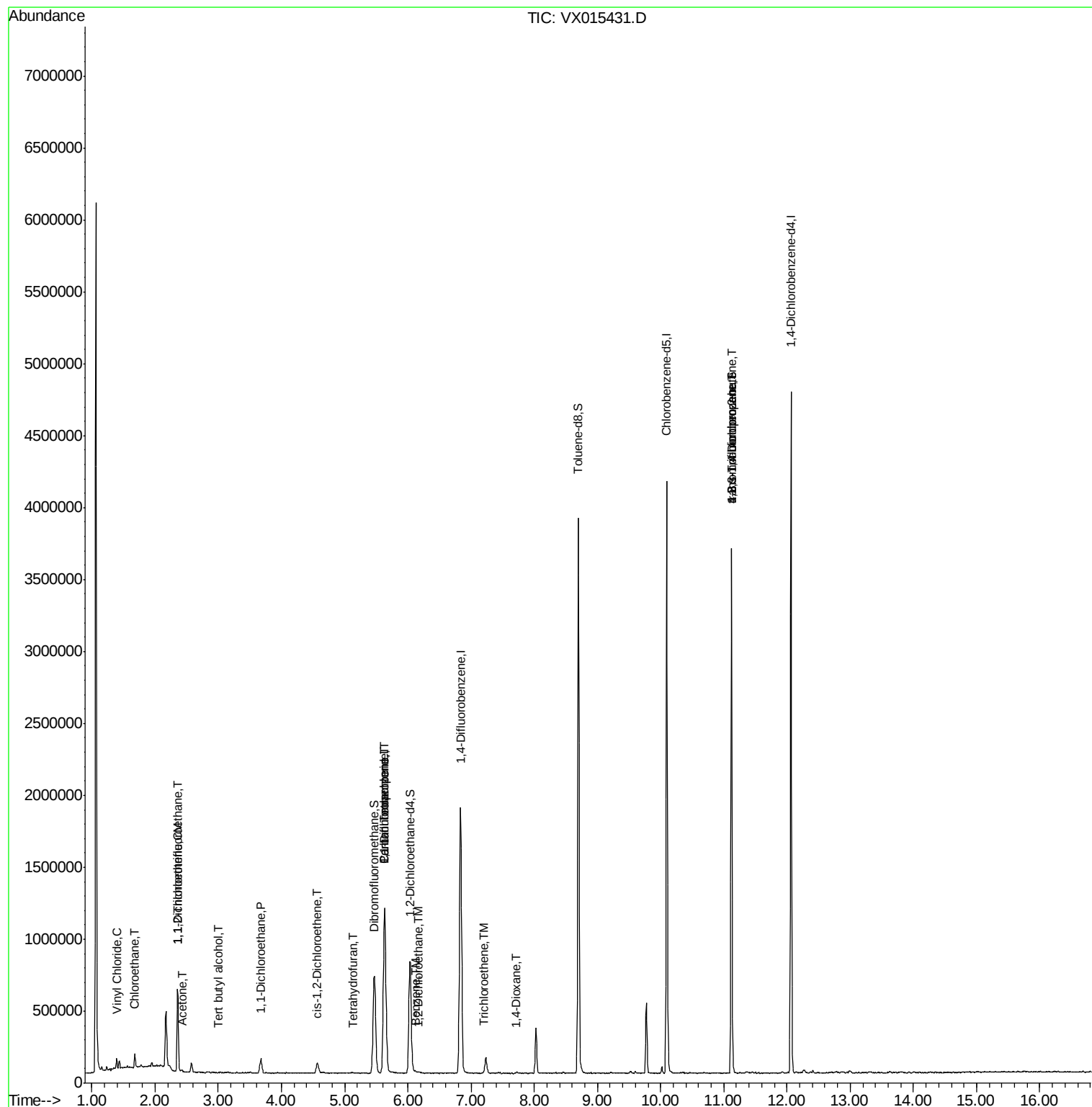
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	42818	3.696	ug/l	98
5) Bromomethane	1.61	94	191	Below Cal	#	3
6) Chloroethane	1.68	64	2705	0.376	ug/l #	72
9) 1,1,2-Trichlorotrifluoroet	2.35	101	2184	0.216	ug/l #	47
11) Tert butyl alcohol	3.01	59	4222	1.112	ug/l #	92
12) 1,1-Dichloroethene	2.36	96	177296	16.698	ug/l	91
16) Acetone	2.42	43	11633	1.707	ug/l #	89
24) 1,1-Dichloroethane	3.67	63	125255	5.411	ug/l	97
27) cis-1,2-Dichloroethene	4.58	96	46481	3.409	ug/l	88
29) Tetrahydrofuran	5.12	42	4958	0.704	ug/l #	46
36) 1,1-Dichloropropene	5.64	75	84273	5.005	ug/l #	52
38) Carbon Tetrachloride	5.64	117	110454	6.057	ug/l #	14
40) Benzene	6.12	78	17792	0.361	ug/l #	85
42) 1,2-Dichloroethane	6.17	62	9947	0.502	ug/l #	64
44) Trichloroethene	7.20	130	3400	0.253	ug/l	73
49) 1,4-Dioxane	7.73	88	6637	19.246	ug/l #	82
76) 1,2,3-Trichloropropane	11.12	75	502311	25.673	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	502311	61.601	ug/l #	11

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

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QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

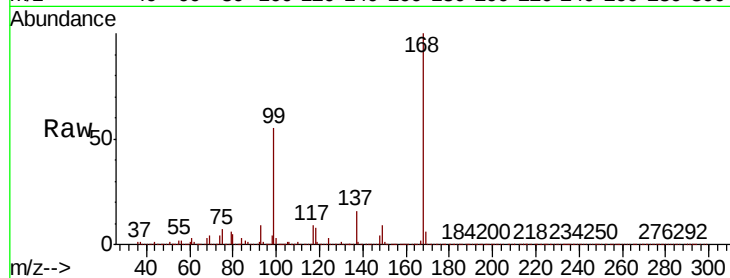
ClientSampleId :

Tot Ion:168 Resp: 1124660

Ion Ratio Lower Upper

168 100

99 55.3 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

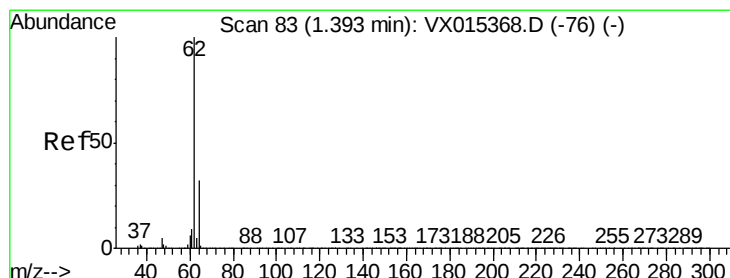
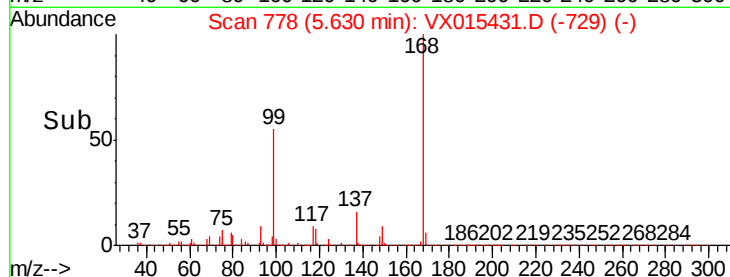
Time-->

5.50

5.60

5.70

5.80



#4

Vinyl Chloride

Concen: 3.696 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015431.D

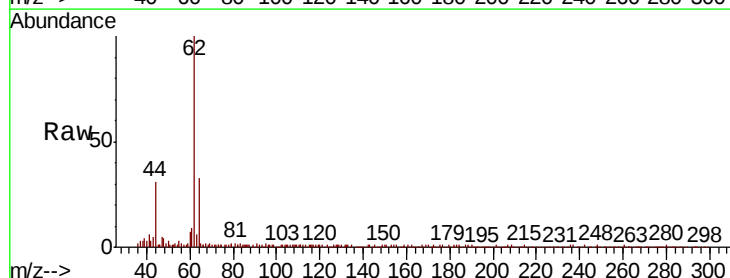
Acq: 30 Mar 2020 16:27

Tgt Ion: 62 Resp: 42818

Ion Ratio Lower Upper

62 100

64 31.5 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

50000

40000

30000

20000

10000

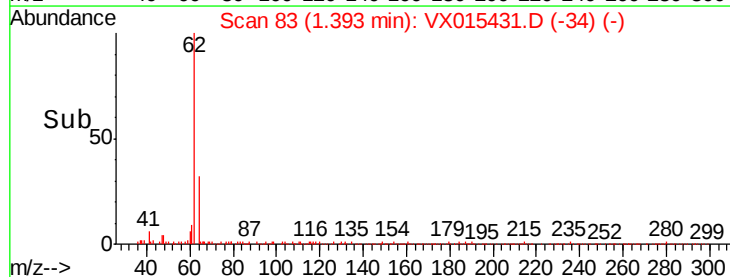
0

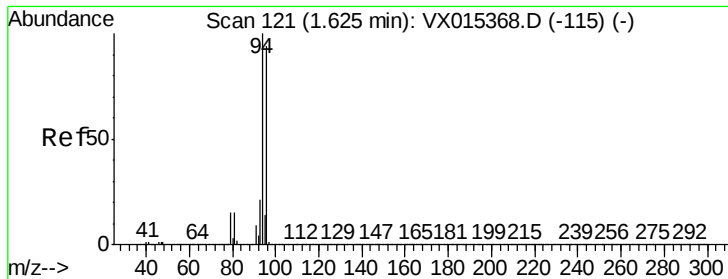
Time-->

1.35

1.40

1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

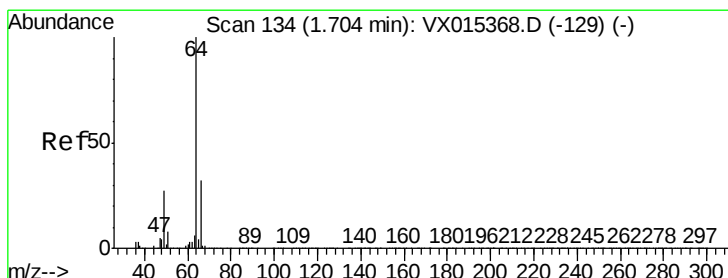
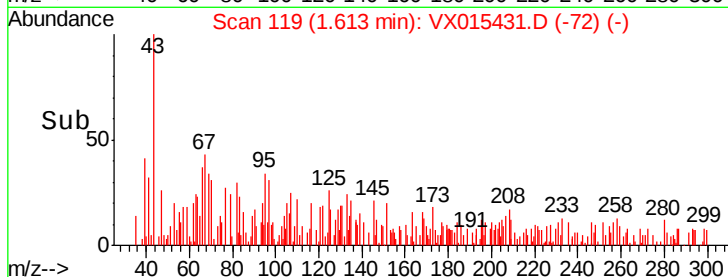
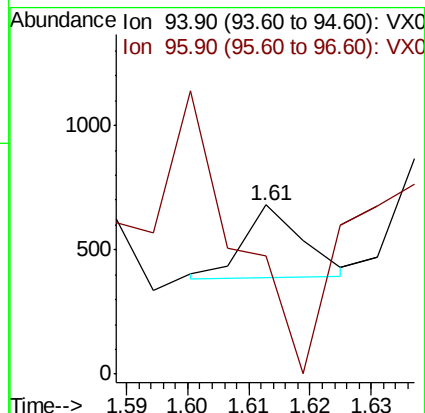
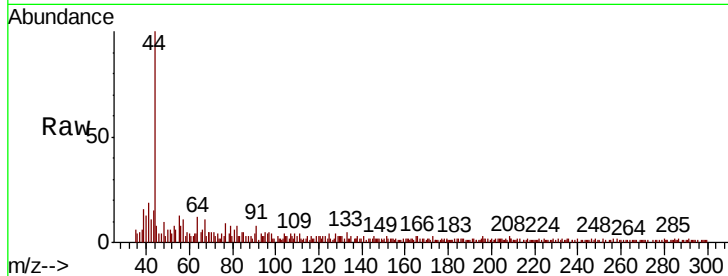
ClientSampleId :

Tot Ion: 94 Resp: 191

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



#6

Chloroethane

Concen: 0.376 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.02 min

Lab File: VX015431.D

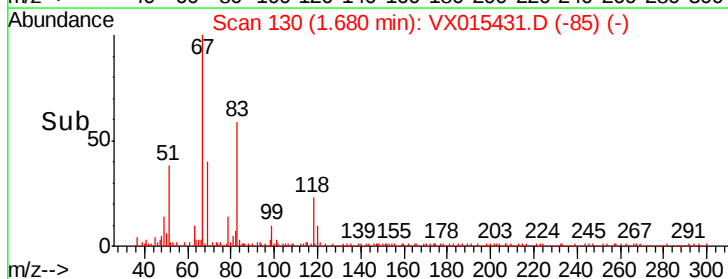
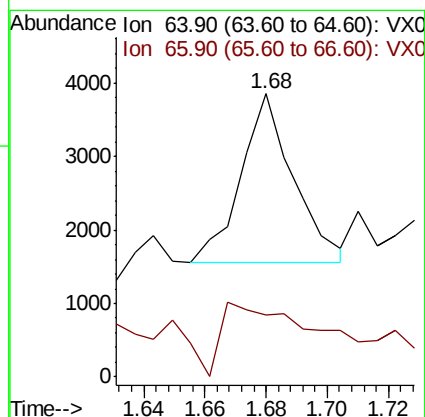
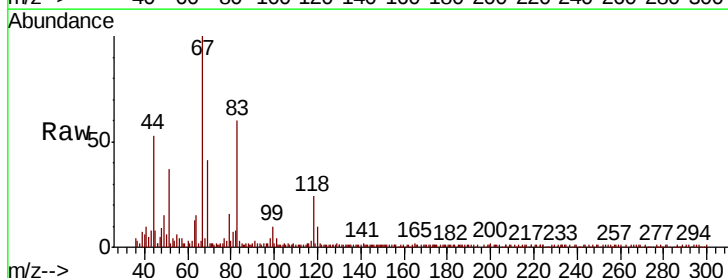
Acq: 30 Mar 2020 16:27

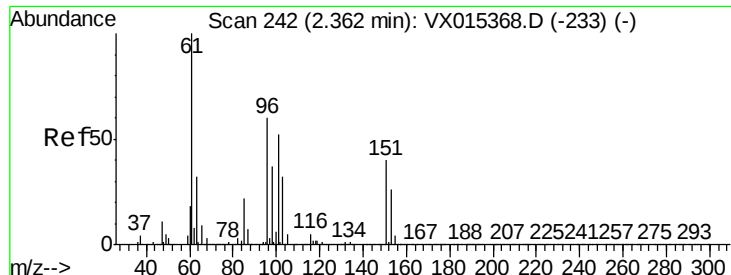
Tgt Ion: 64 Resp: 2705

Ion Ratio Lower Upper

64 100

66 16.5 25.4 38.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.216 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

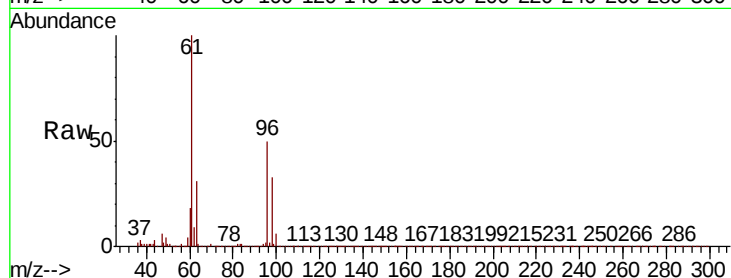
Tot Ion:101 Resp: 2184

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

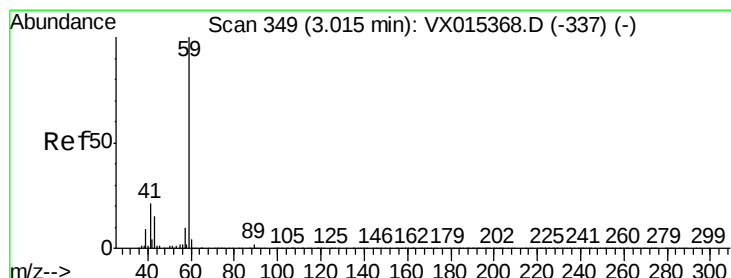
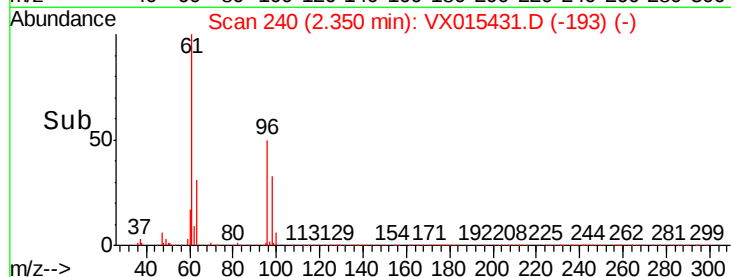
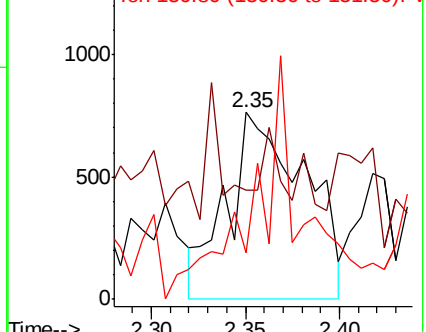
151 41.0 64.1 96.1#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.112 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.01 min

Lab File: VX015431.D

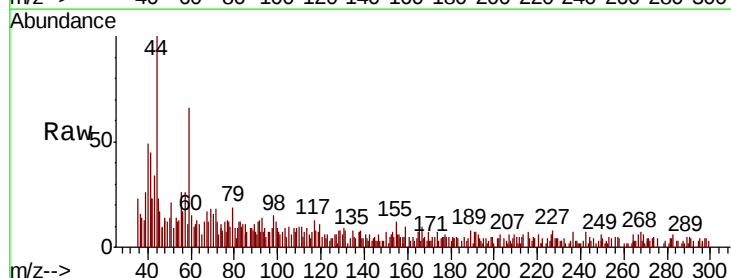
Acq: 30 Mar 2020 16:27

Tgt Ion: 59 Resp: 4222

Ion Ratio Lower Upper

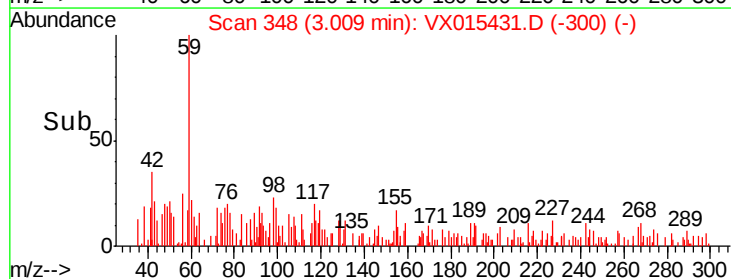
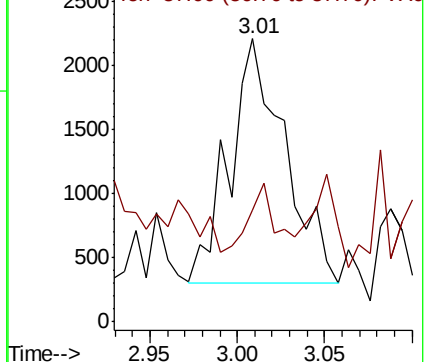
59 100

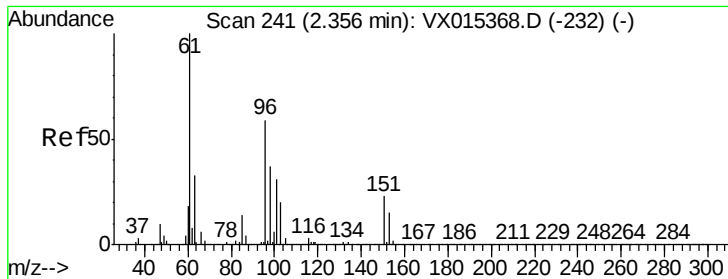
57 13.1 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 16.698 ug/l

RT: 2.36 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

ClientSampled :

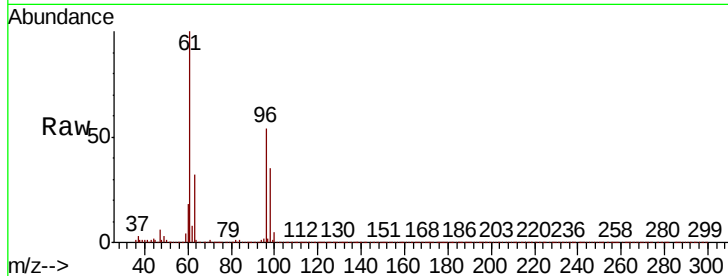
Tot Ion: 96 Resp: 177296

Ion Ratio Lower Upper

96 100

61 185.8 135.7 203.5

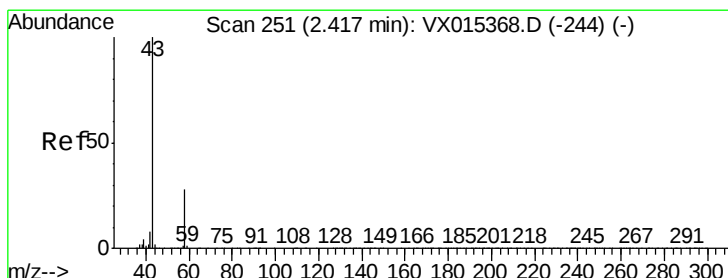
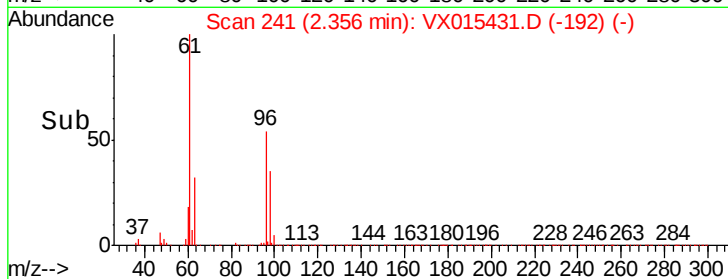
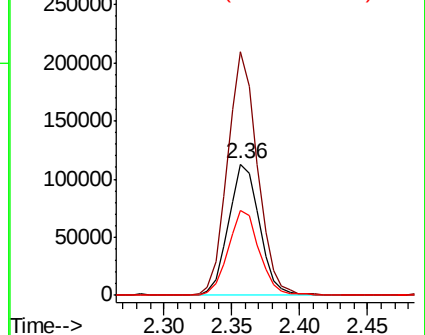
98 64.3 50.6 75.8



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



#16

Acetone

Concen: 1.707 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015431.D

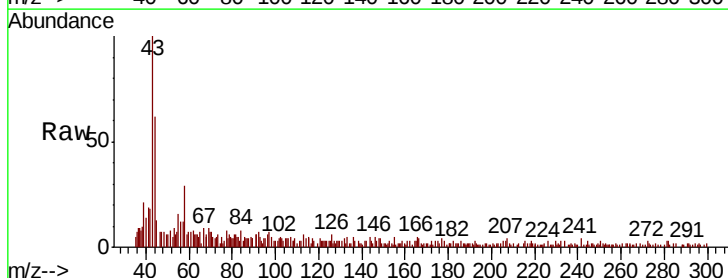
Acq: 30 Mar 2020 16:27

Tgt Ion: 43 Resp: 11633

Ion Ratio Lower Upper

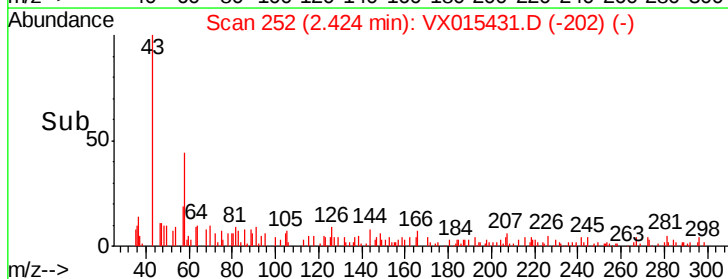
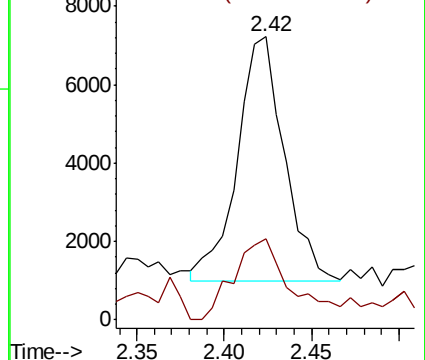
43 100

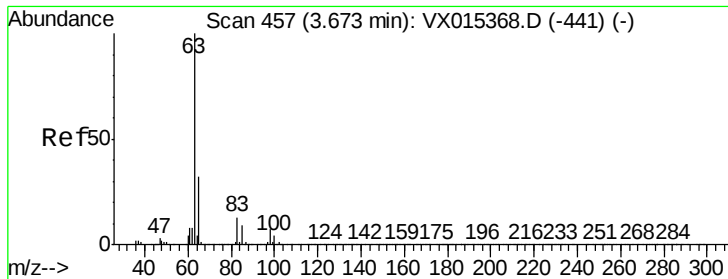
58 33.4 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#24

1,1-Dichloroethane

Concen: 5.411 ug/l

RT: 3.67 min Scan# 457

Delta R.T. 0.00 min

Lab File: VX015431.D

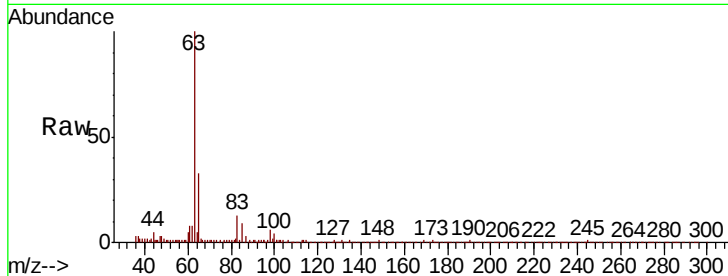
Acq: 30 Mar 2020 16:27

Instrument :

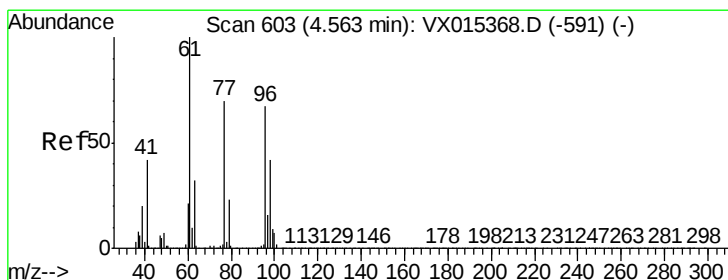
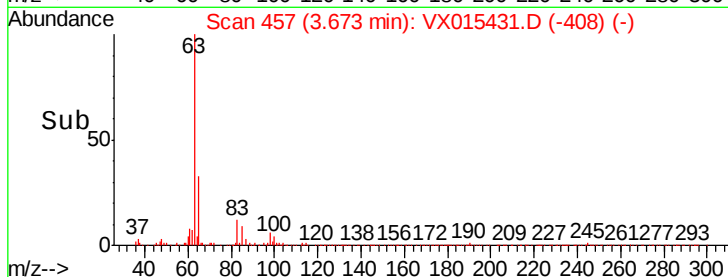
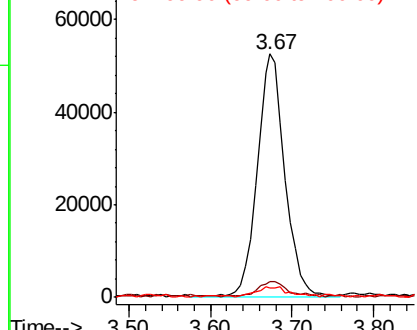
MSVOA_X

ClientSampleId :

Tot Ion:	63	Resp:	125255
Ion	Ratio	Lower	Upper
63	100		
98	5.4	3.3	9.8
100	3.6	2.1	6.5



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 3.409 ug/l

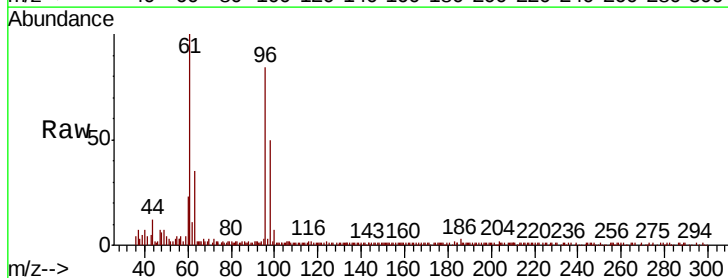
RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

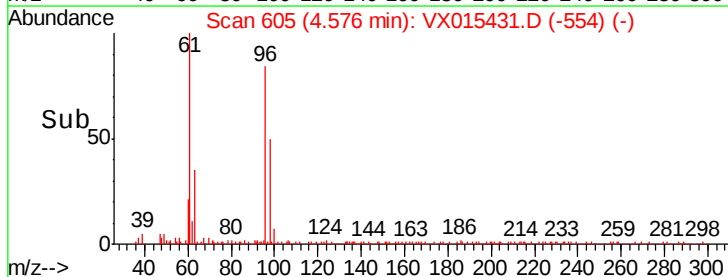
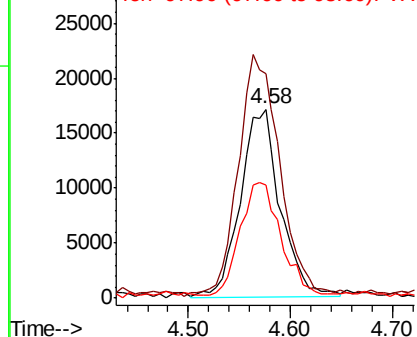
Lab File: VX015431.D

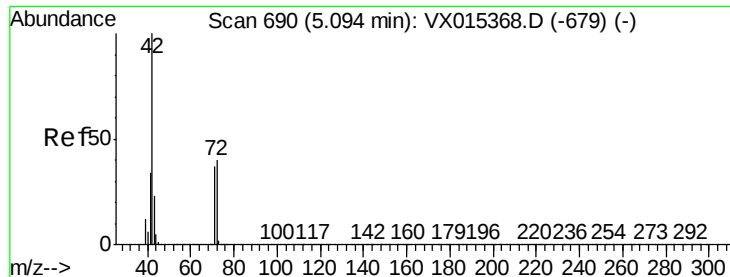
Acq: 30 Mar 2020 16:27

Tgt Ion:	96	Resp:	46481
Ion	Ratio	Lower	Upper
96	100		
61	134.8	0.0	308.4
98	60.4	0.0	129.2



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

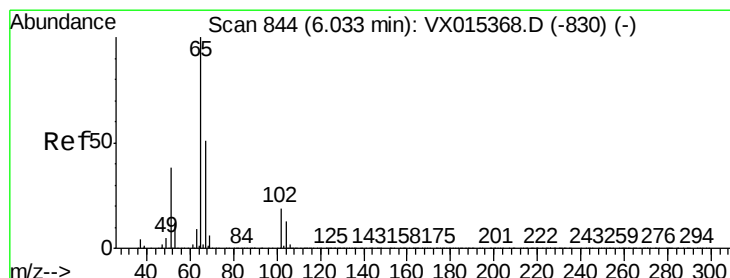
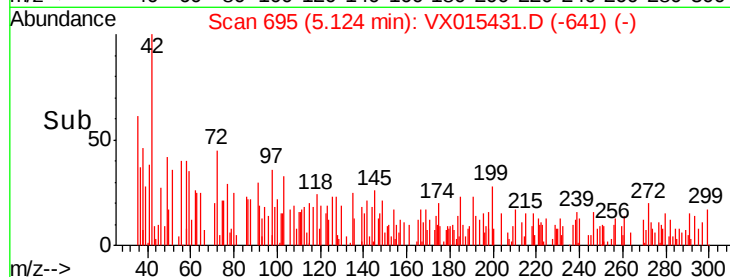
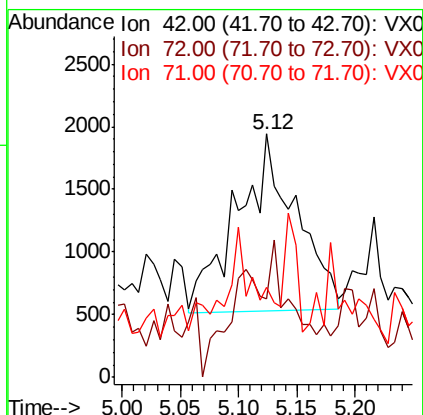
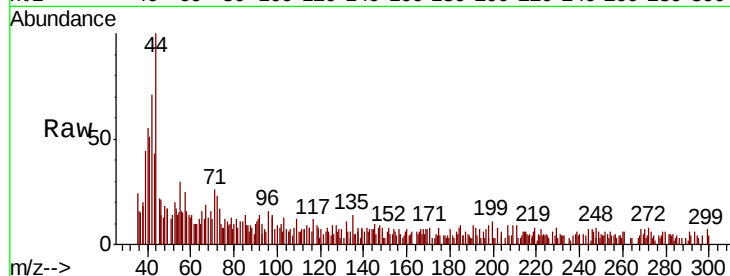




#29
Tetrahydrofuran
Concen: 0.704 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.03 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

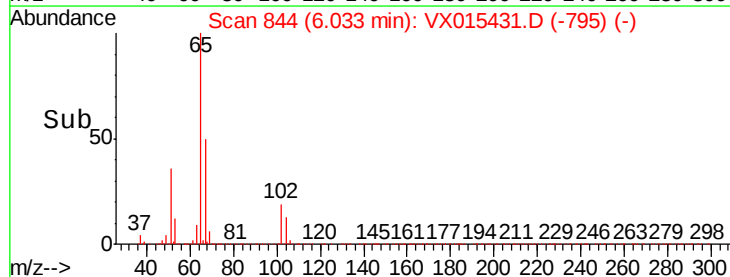
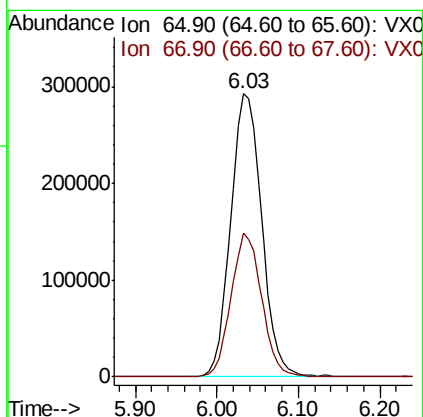
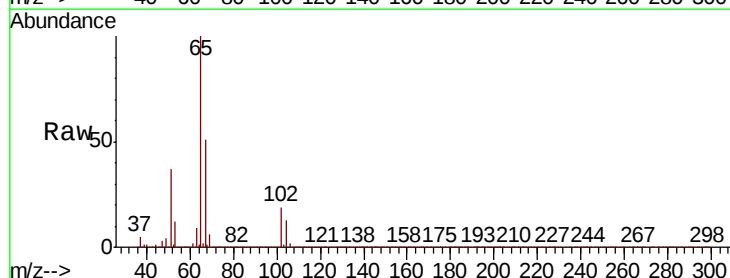
Instrument :
MSVOA_X
ClientSampleId :

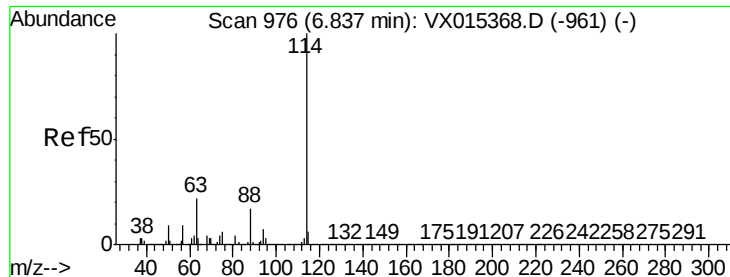
Tot Ion: 42 Resp: 4958
Ion Ratio Lower Upper
42 100
72 0.0 31.7 47.5#
71 11.5 29.6 44.4#



#33
1,2-Dichloroethane-d4
Concen: 48.326 ug/l
RT: 6.03 min Scan# 844
Delta R.T. 0.00 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

Tgt Ion: 65 Resp: 766553
Ion Ratio Lower Upper
65 100
67 49.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

ClientSampled :

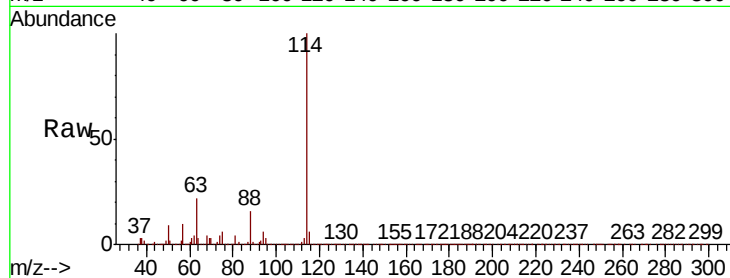
Tot Ion:114 Resp: 1827423

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.2

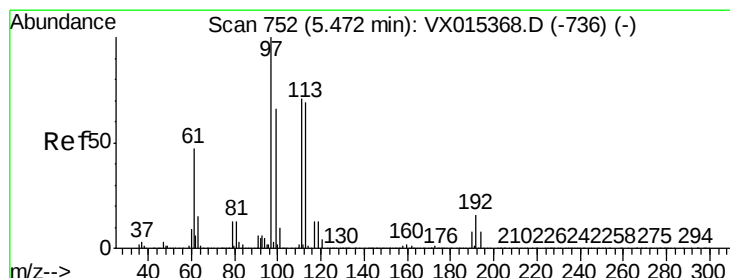
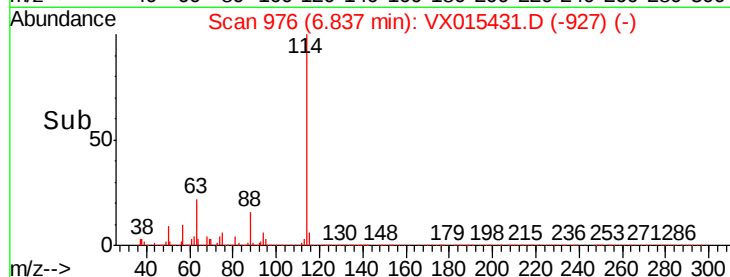
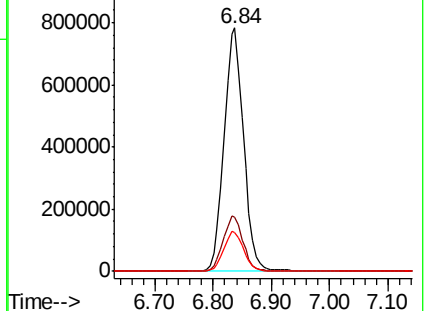
88 16.0 0.0 33.8



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



#35

Dibromofluoromethane

Concen: 49.523 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

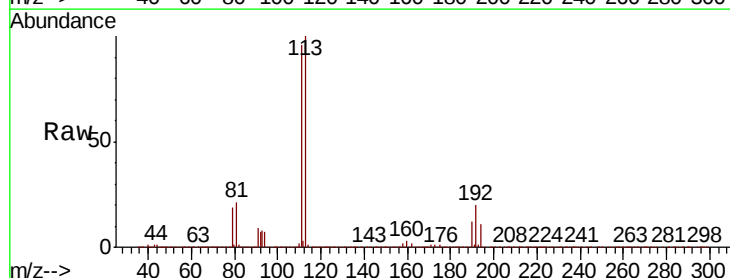
Tgt Ion:113 Resp: 578494

Ion Ratio Lower Upper

113 100

111 102.3 81.5 122.3

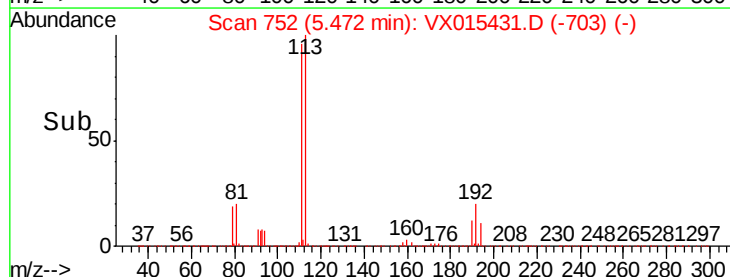
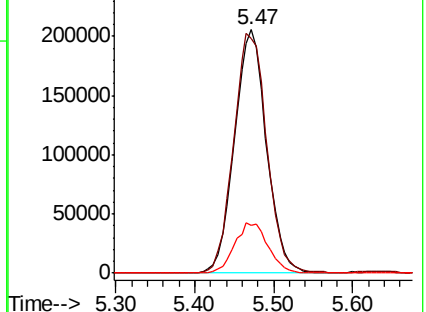
192 21.4 17.8 26.6

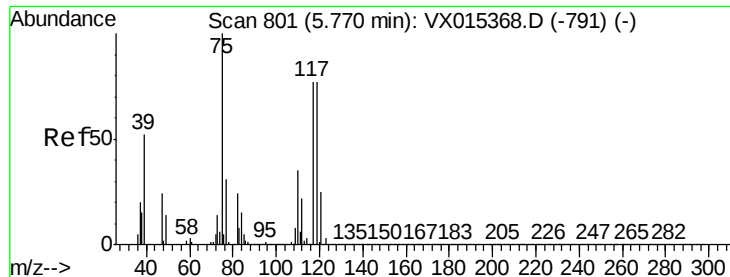


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.005 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

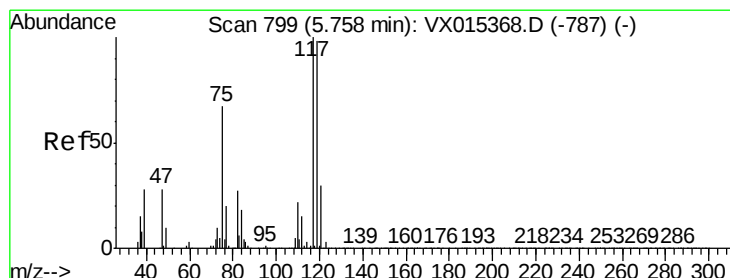
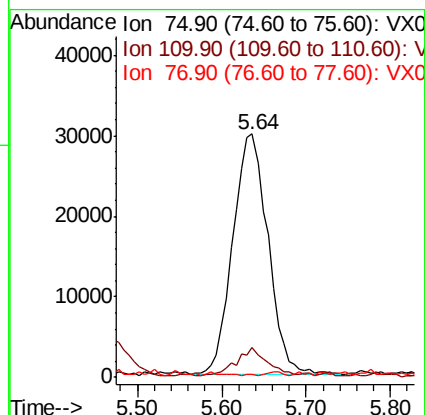
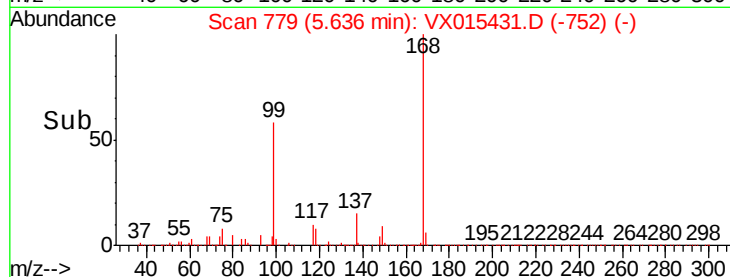
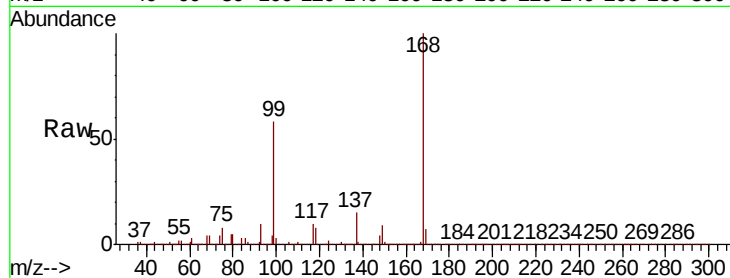
Tot Ion: 75 Resp: 84273

Ion Ratio Lower Upper

75 100

110 10.9 17.1 51.3#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.057 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

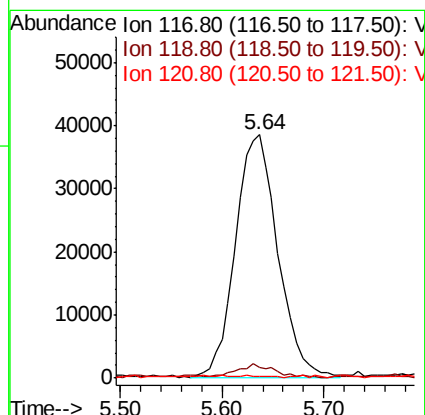
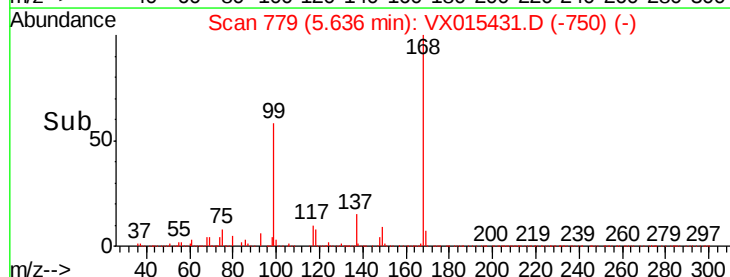
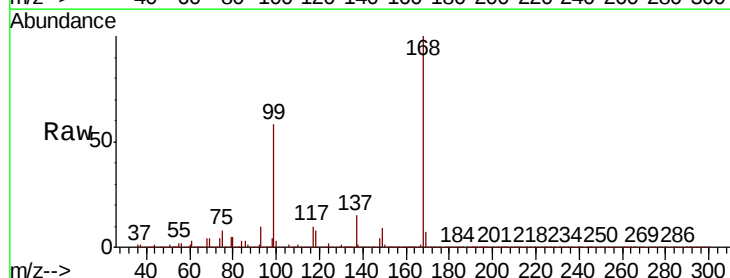
Tgt Ion: 117 Resp: 110454

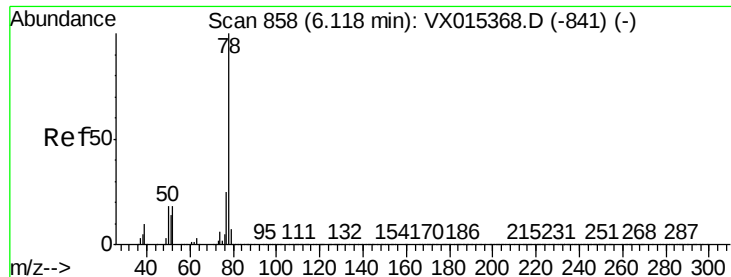
Ion Ratio Lower Upper

117 100

119 3.4 78.0 117.0#

121 0.0 23.8 35.8#





#40

Benzene

Concen: 0.361 ug/l

RT: 6.12 min Scan# 859

Delta R.T. 0.01 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

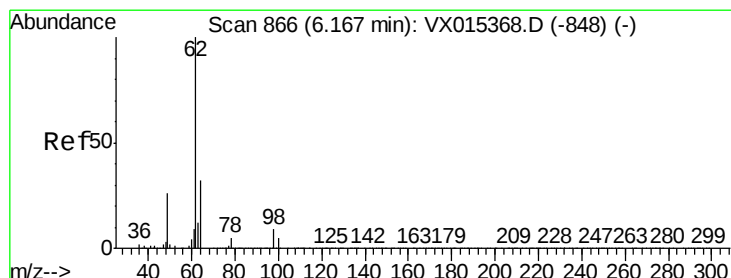
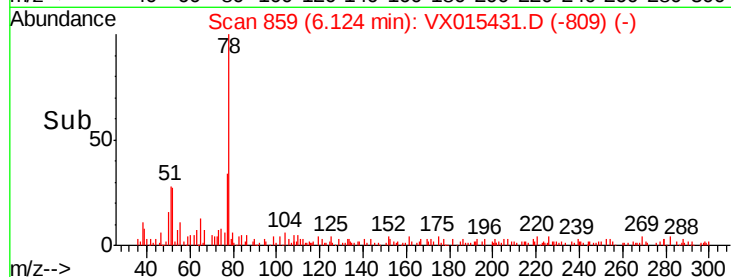
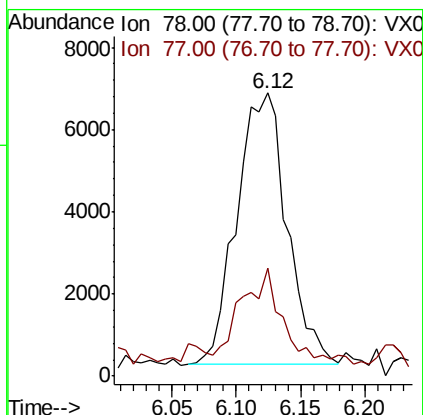
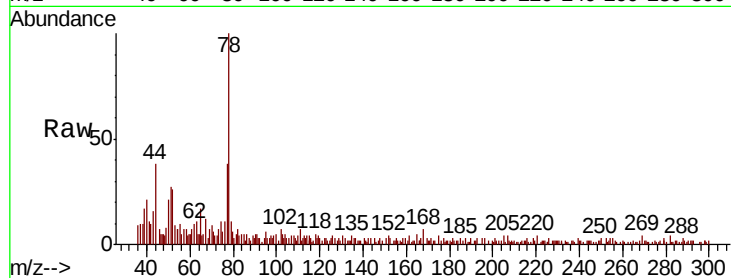
ClientSampleId :

Tot Ion: 78 Resp: 17792

Ion Ratio Lower Upper

78 100

77 32.1 19.8 29.8#



#42

1,2-Dichloroethane

Concen: 0.502 ug/l

RT: 6.17 min Scan# 866

Delta R.T. 0.00 min

Lab File: VX015431.D

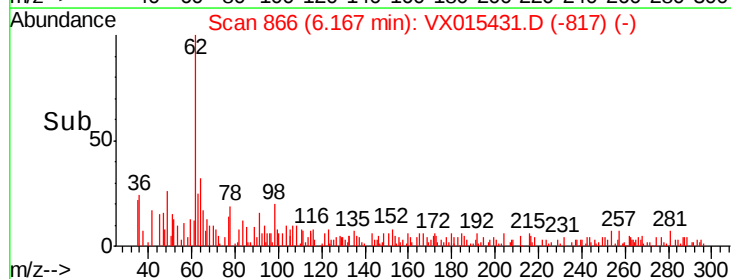
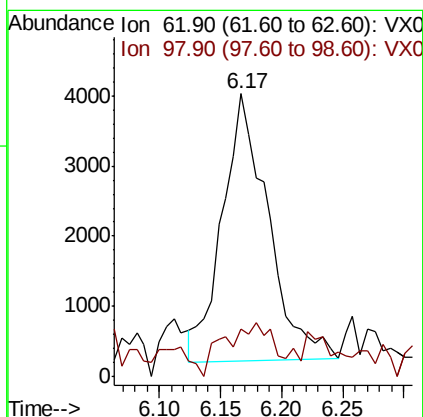
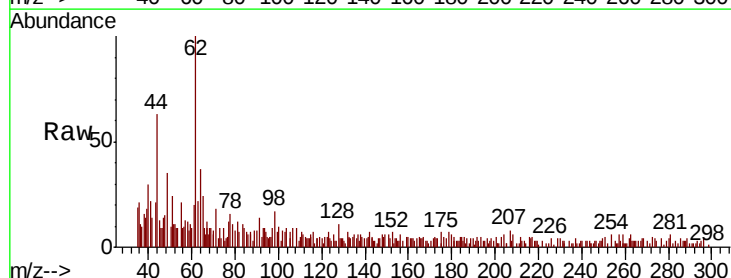
Acq: 30 Mar 2020 16:27

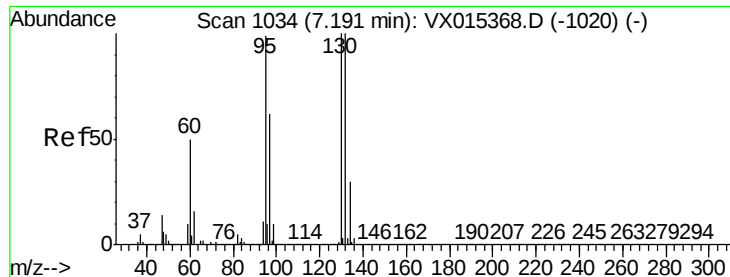
Tgt Ion: 62 Resp: 9947

Ion Ratio Lower Upper

62 100

98 21.6 0.0 17.6#





#44

Trichloroethene

Concen: 0.253 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.01 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

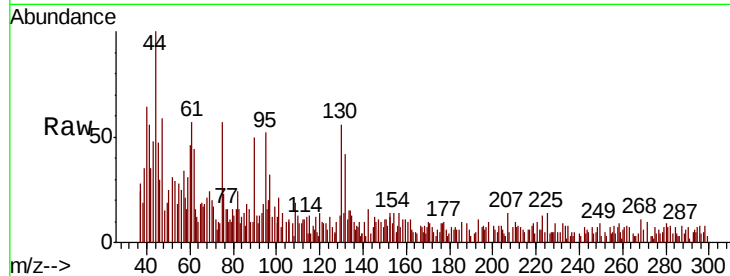
ClientSampled :

Tot Ion:130 Resp: 3400

Ion Ratio Lower Upper

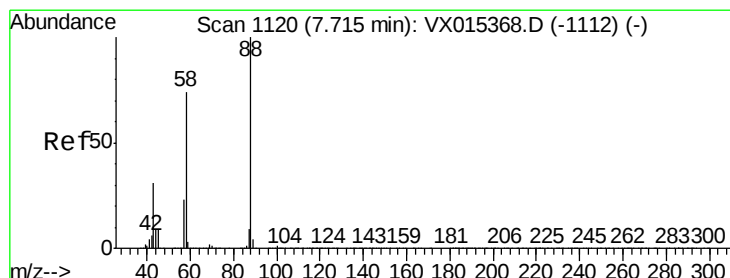
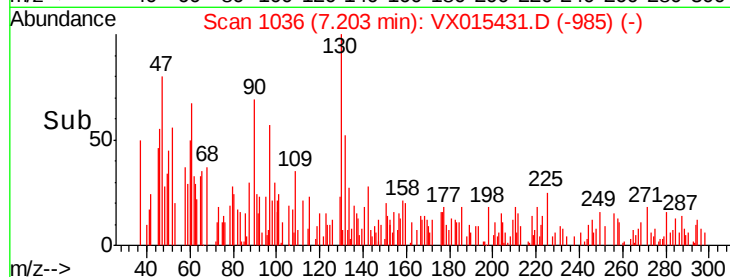
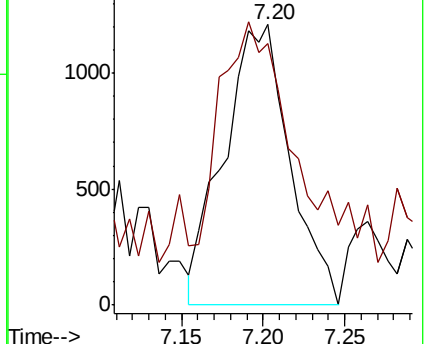
130 100

95 72.2 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 19.246 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

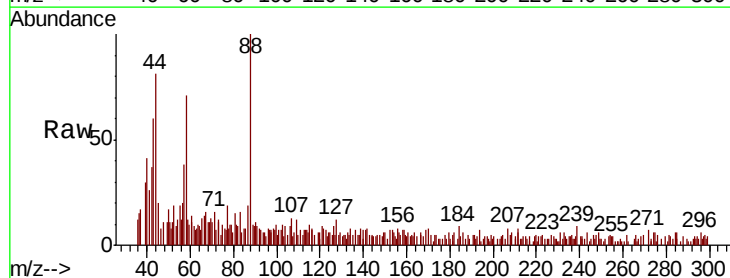
Tgt Ion: 88 Resp: 6637

Ion Ratio Lower Upper

88 100

43 46.8 30.1 45.1#

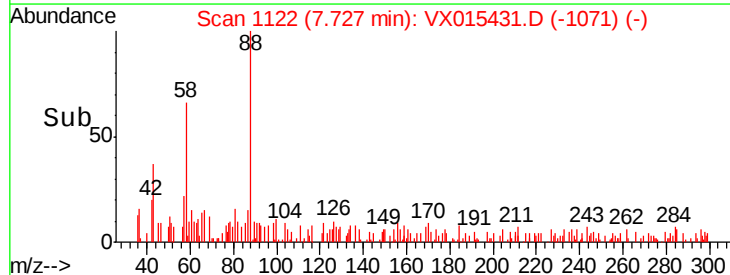
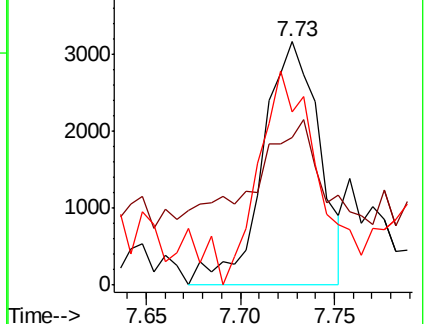
58 91.8 60.6 90.8#

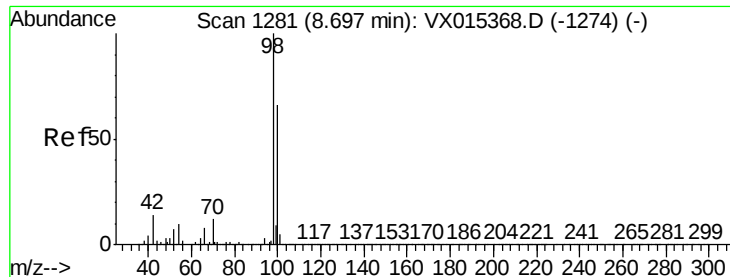


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

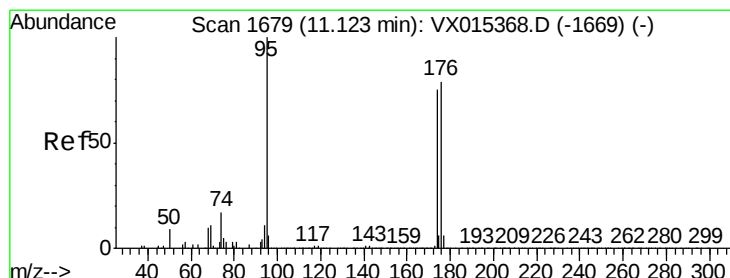
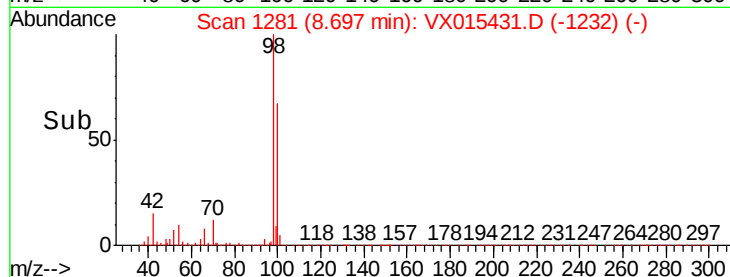
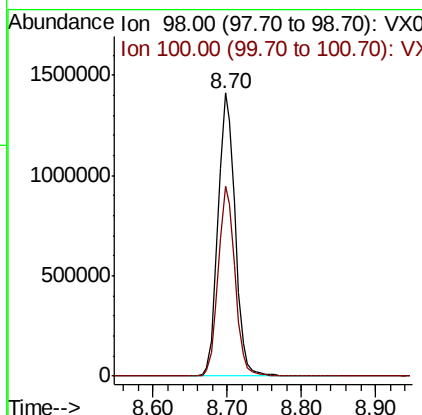
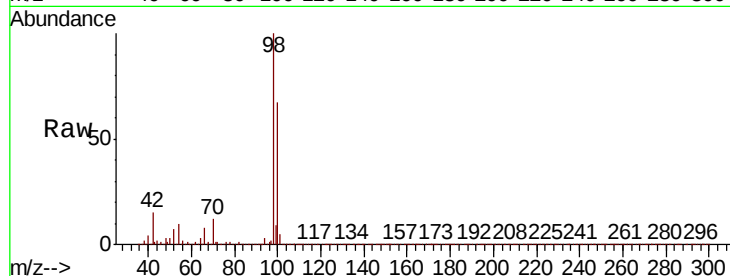




#50
Toluene-d8
Concen: 51.854 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

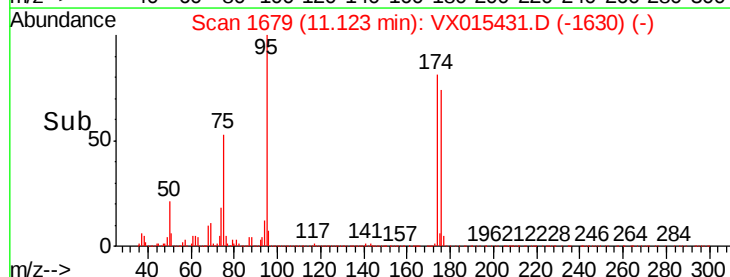
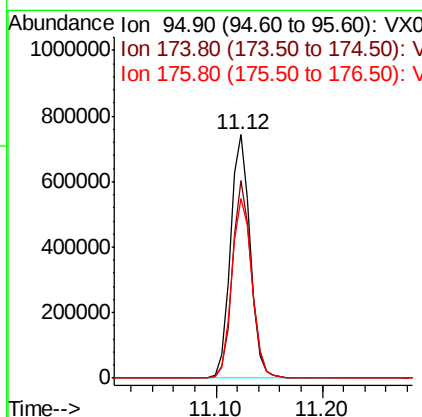
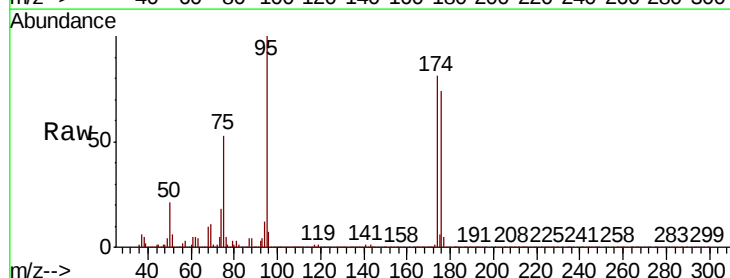
Instrument :
MSVOA_X
ClientSampleId :

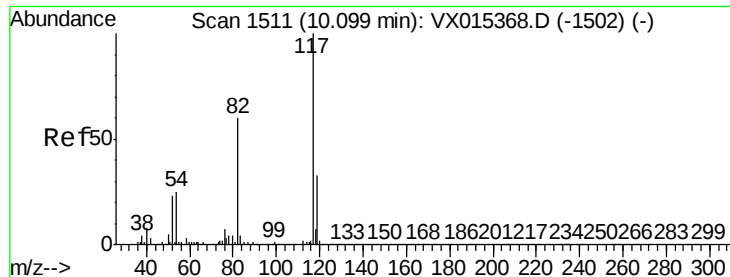
Tot Ion: 98 Resp: 2230111
Ion Ratio Lower Upper
98 100
100 65.7 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 55.172 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

Tgt Ion: 95 Resp: 964318
Ion Ratio Lower Upper
95 100
174 78.5 0.0 158.6
176 76.2 0.0 159.0

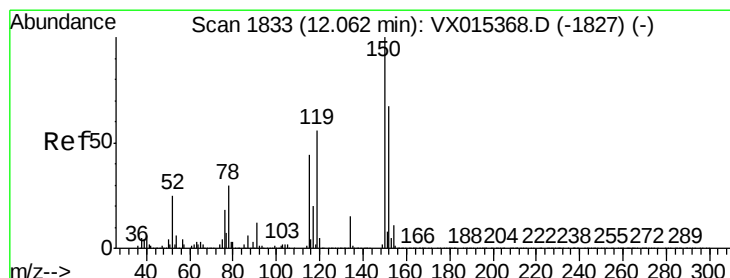
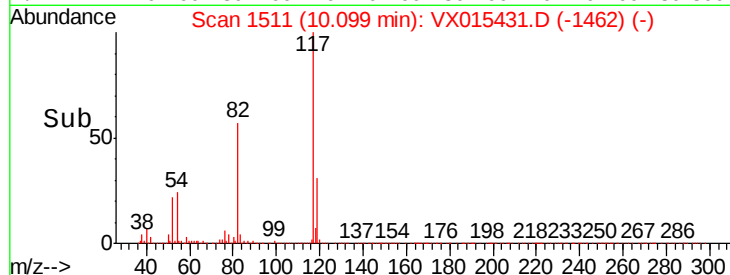
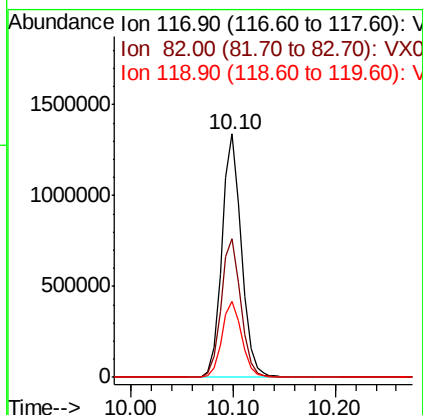
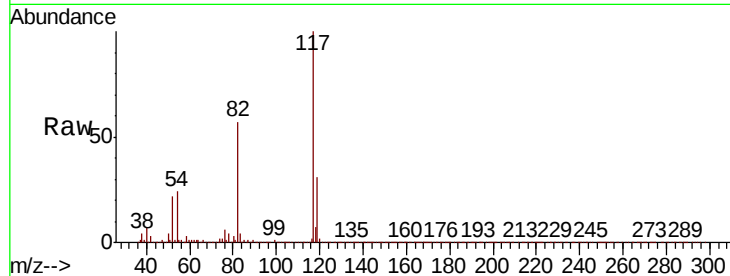




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

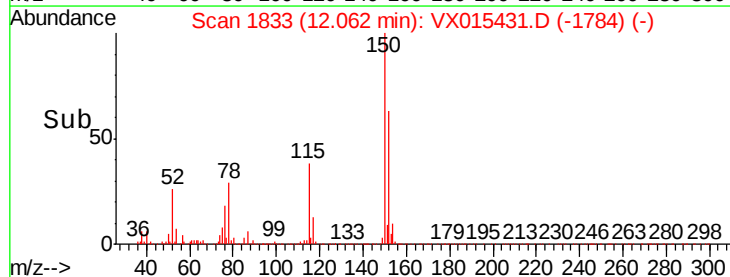
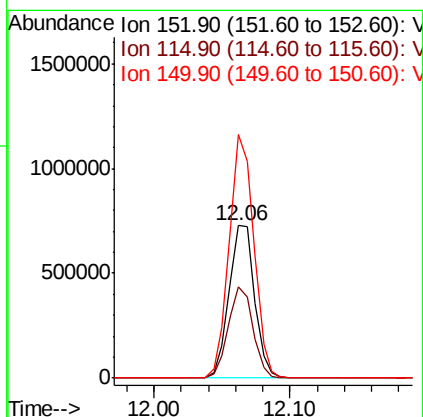
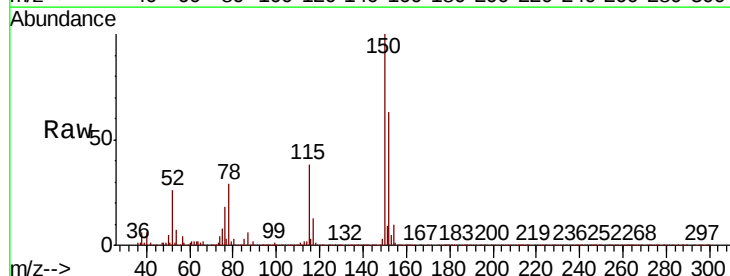
Instrument :
MSVOA_X
ClientSampleId :

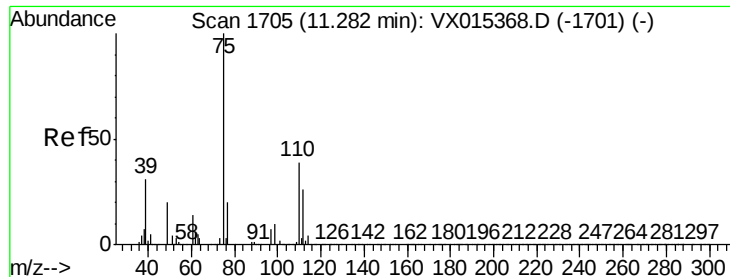
Tot Ion:117 Resp: 1782723
Ion Ratio Lower Upper
117 100
82 56.7 47.8 71.8
119 31.1 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015431.D
Acq: 30 Mar 2020 16:27

Tgt Ion:152 Resp: 951448
Ion Ratio Lower Upper
152 100
115 57.8 39.0 116.9
150 154.1 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 25.673 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Instrument :

MSVOA_X

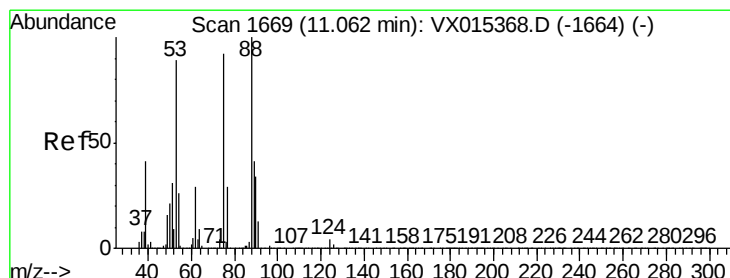
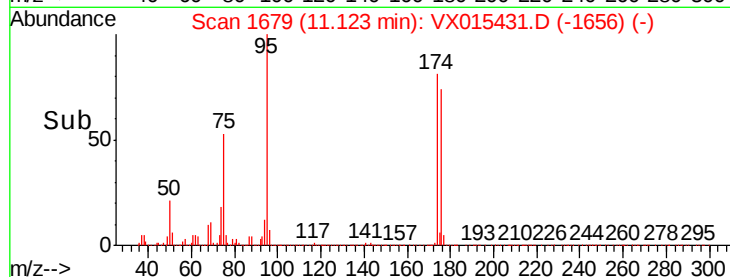
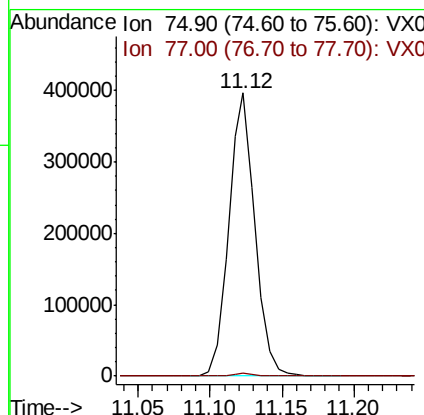
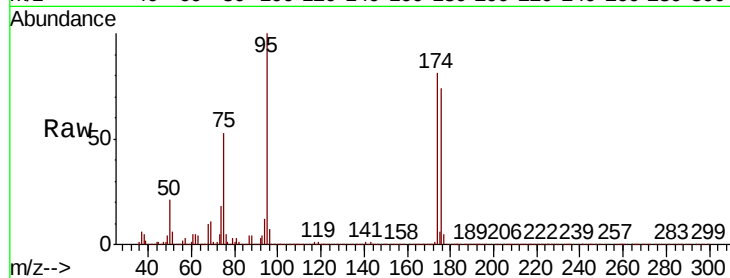
ClientSampleId :

Tot Ion: 75 Resp: 502311

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.601 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015431.D

Acq: 30 Mar 2020 16:27

Tgt Ion: 75 Resp: 502311

Ion Ratio Lower Upper

75 100

53 0.4 80.1 120.1#

89 1.4 36.1 54.1#

