

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX033020\
 Data File : VX015430.D
 Acq On : 30 Mar 2020 16:05
 Operator : JC/SP
 Sample : L2022-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 31 08:52:25 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	1158379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1864954	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1796202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	934663	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	774615	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
35) Dibromofluoromethane	5.47	113	592116	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	8.70	98	2262425	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	11.12	95	978855	54.88	ug/l	0.00
Spiked Amount			Recovery	=	109.76%	

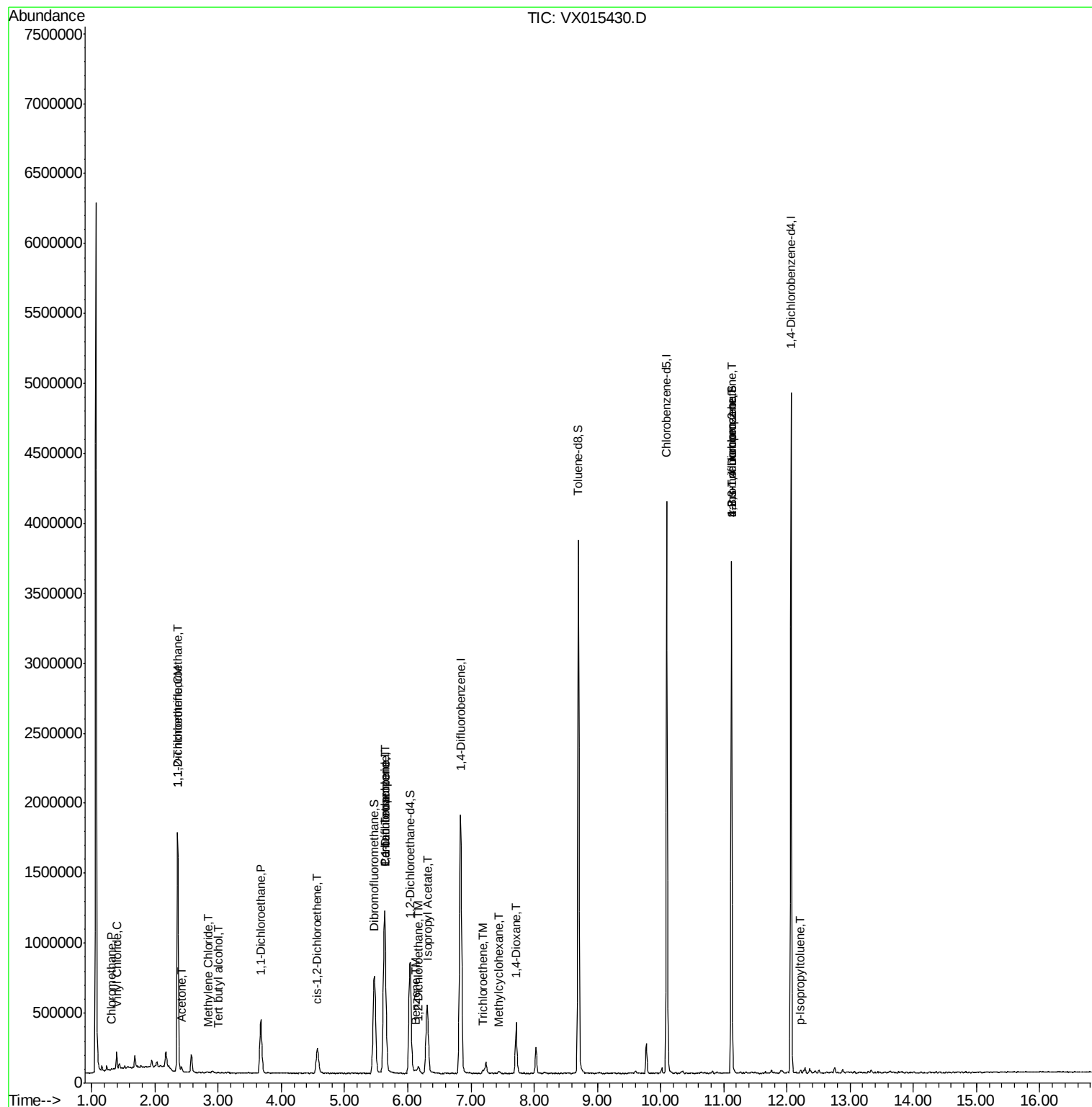
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	4666	0.359	ug/l #	63
4) Vinyl Chloride	1.39	62	66088	5.538	ug/l	97
5) Bromomethane	1.62	94	274	Below Cal	#	39
9) 1,1,2-Trichlorotrifluoroet	2.36	101	2800	0.268	ug/l #	44
11) Tert butyl alcohol	3.01	59	5047	1.291	ug/l #	90
12) 1,1-Dichloroethene	2.36	96	534557	48.879	ug/l	92
16) Acetone	2.42	43	41132	5.860	ug/l	97
20) Methylene Chloride	2.83	84	4484	0.342	ug/l #	72
24) 1,1-Dichloroethane	3.67	63	444609	18.649	ug/l	100
27) cis-1,2-Dichloroethene	4.57	96	115132	8.199	ug/l	88
36) 1,1-Dichloropropene	5.63	75	87782	5.109	ug/l #	52
38) Carbon Tetrachloride	5.63	117	113232	6.084	ug/l #	15
39) Methylcyclohexane	7.45	83	5774	0.291	ug/l	88
40) Benzene	6.12	78	29379	0.584	ug/l	95
42) 1,2-Dichloroethane	6.16	62	57147	2.826	ug/l	99
43) Isopropyl Acetate	6.31	43	159426	4.221	ug/l #	64
44) Trichloroethene	7.19	130	9981	0.727	ug/l	89
49) 1,4-Dioxane	7.72	88	253901	721.438	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	497851	25.902	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	497851	62.151	ug/l #	13
86) p-Isopropyltoluene	12.21	119	11173	0.204	ug/l	91

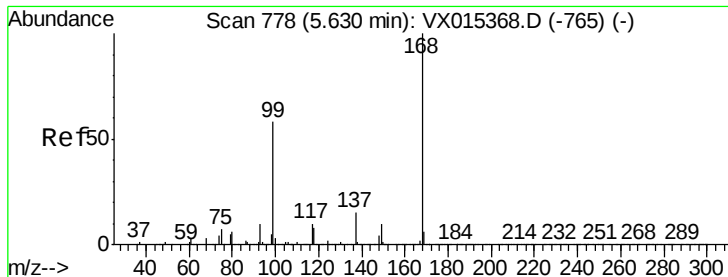
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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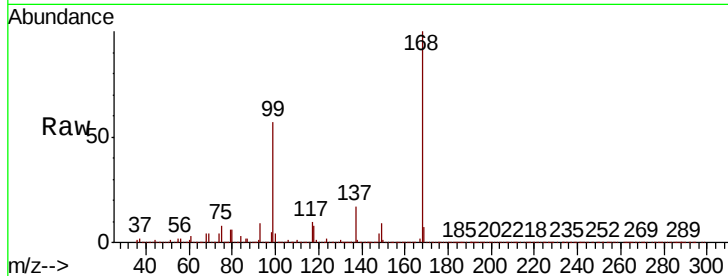


#1

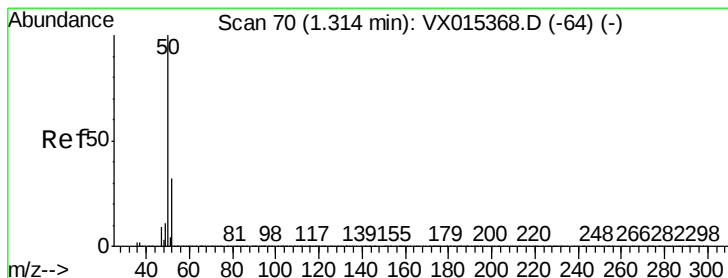
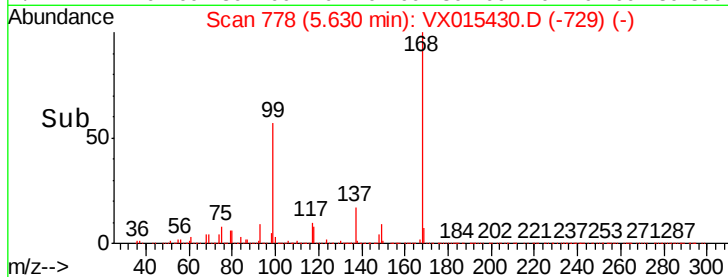
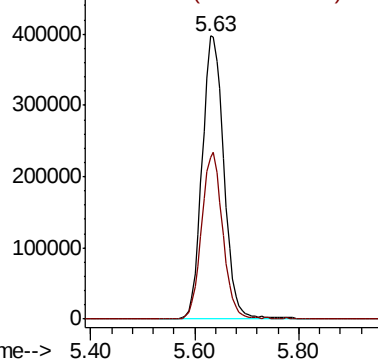
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. 0.00 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 1158379
 Ion Ratio Lower Upper
 168 100
 99 57.2 46.4 69.6



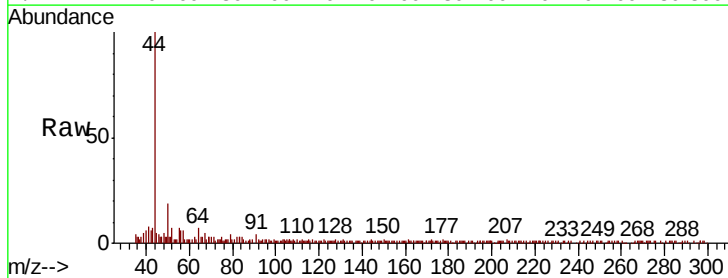
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



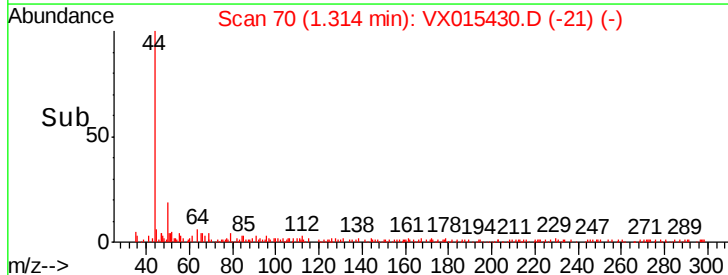
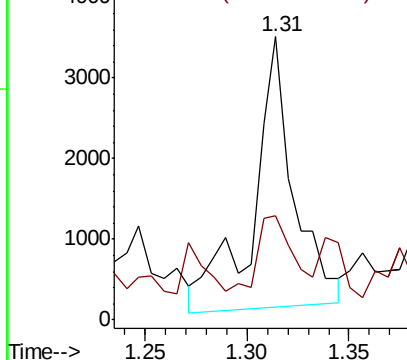
#3

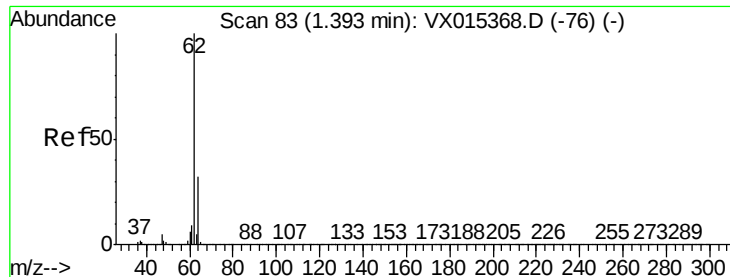
Chloromethane
 Concen: 0.359 ug/l
 RT: 1.31 min Scan# 70
 Delta R.T. 0.00 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

Tgt Ion: 50 Resp: 4666
 Ion Ratio Lower Upper
 50 100
 52 10.8 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 5.538 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :

MSVOA_X

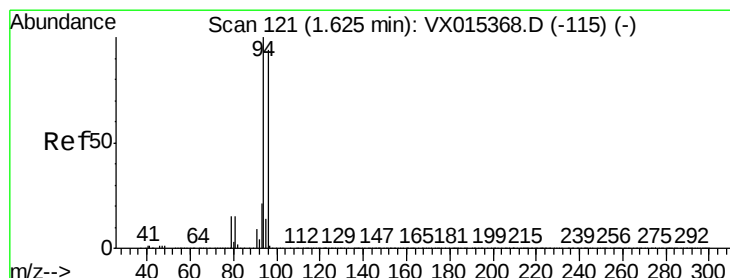
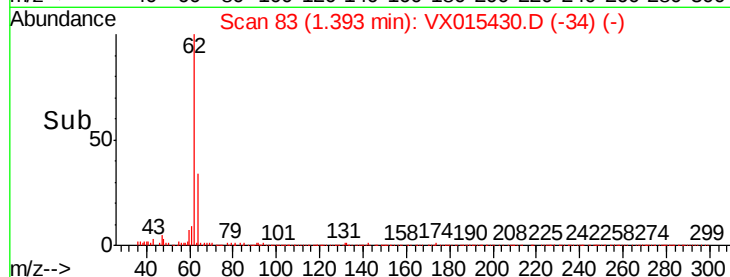
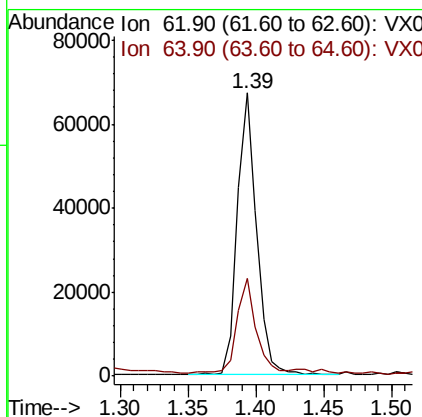
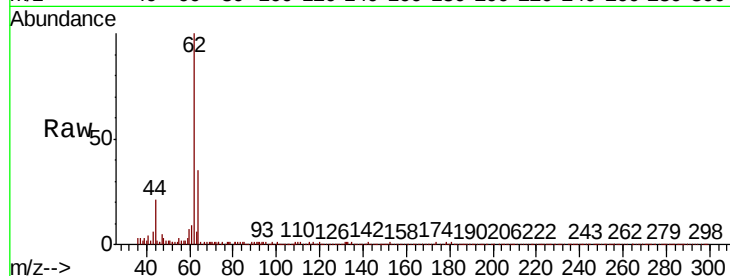
ClientSampleId :

Tot Ion: 62 Resp: 66088

Ion Ratio Lower Upper

62 100

64 33.9 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015430.D

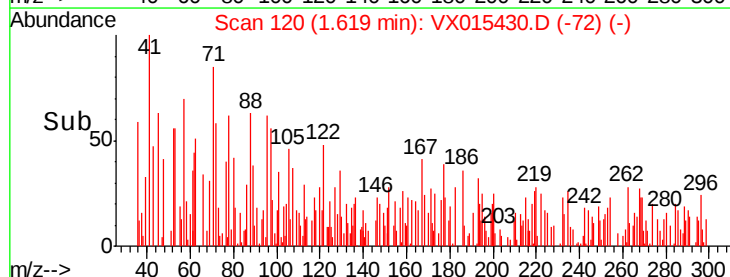
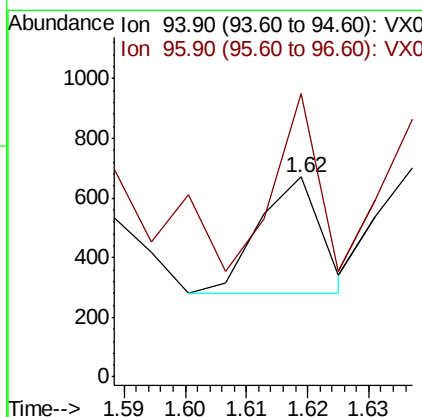
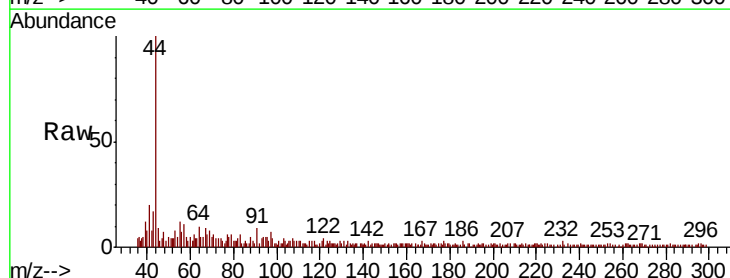
Acq: 30 Mar 2020 16:05

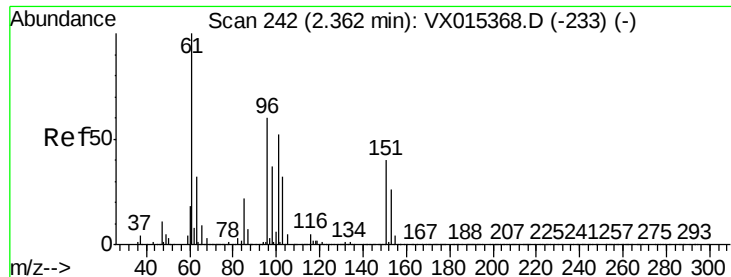
Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

94 100

96 152.4 74.8 112.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.268 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :

MSVOA_X

ClientSampled :

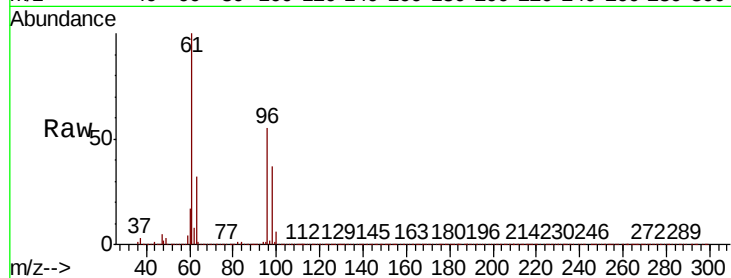
Tot Ion:101 Resp: 2800

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

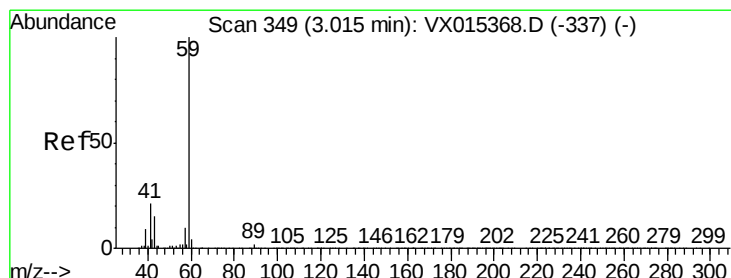
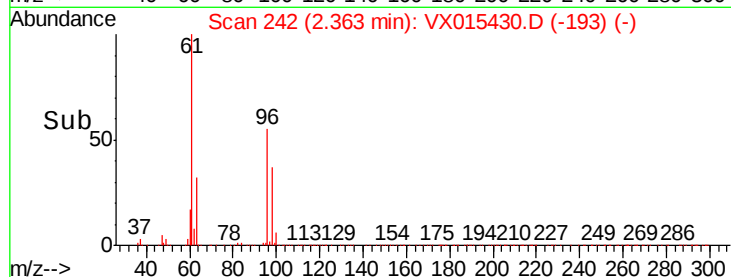
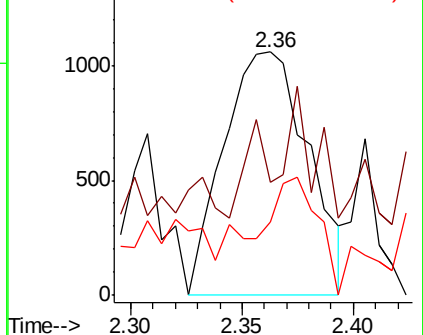
151 36.6 64.1 96.1#



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: 1.291 ug/l

RT: 3.01 min Scan# 349

Delta R.T. 0.00 min

Lab File: VX015430.D

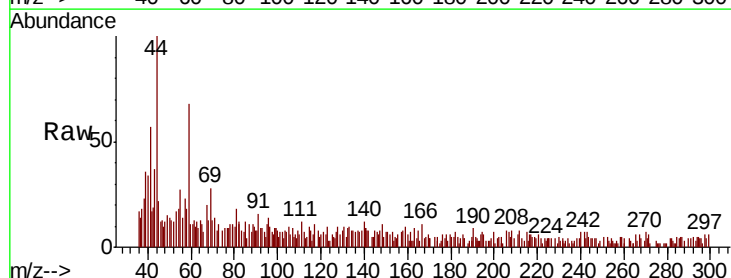
Acq: 30 Mar 2020 16:05

Tgt Ion: 59 Resp: 5047

Ion Ratio Lower Upper

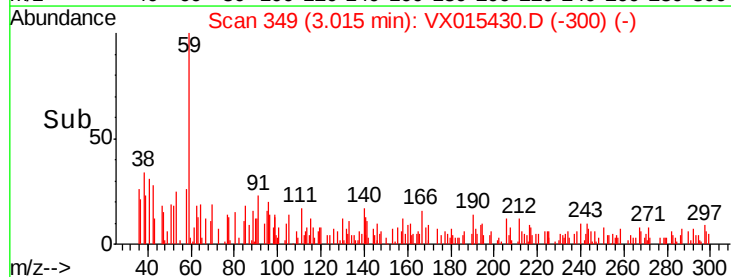
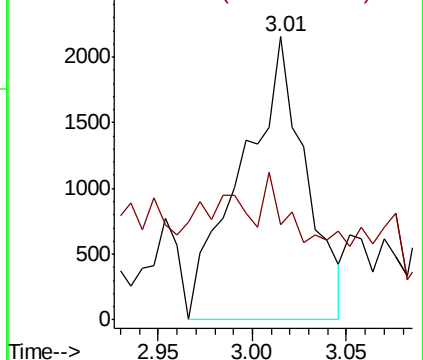
59 100

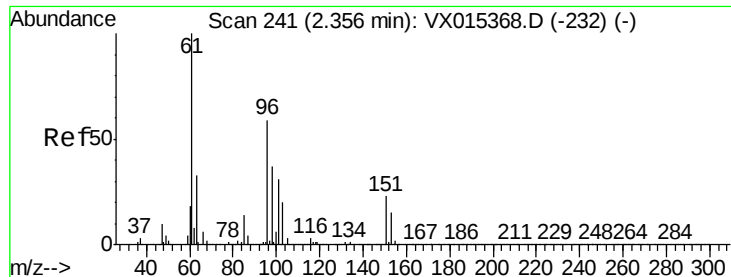
57 6.4 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 48.879 ug/l

RT: 2.36 min Scan# 241

Delta R.T. 0.00 min

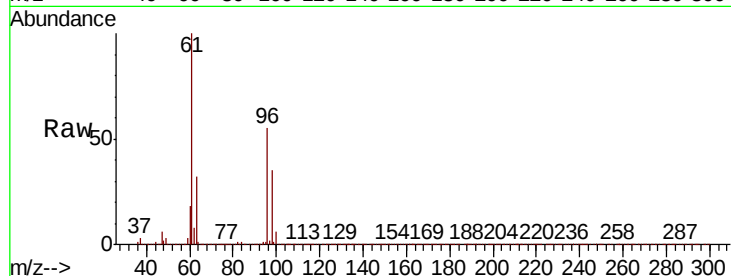
Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 534557

Ion	Ratio	Lower	Upper
96	100		
61	183.2	135.7	203.5
98	64.1	50.6	75.8

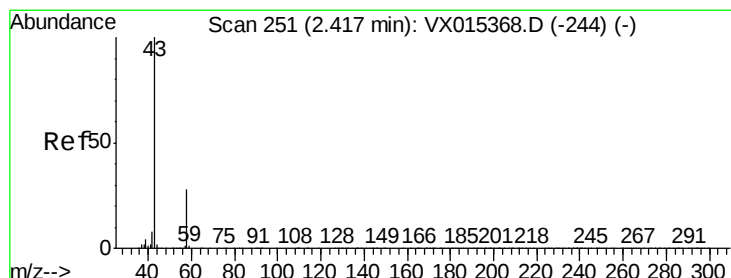
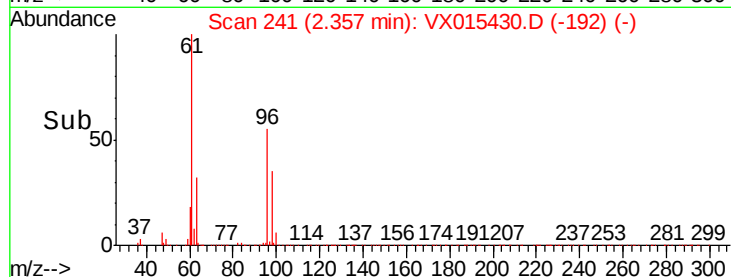
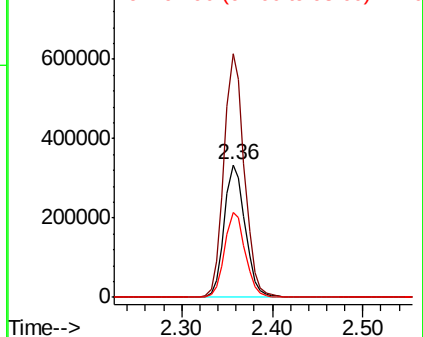


Abundance

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: 5.860 ug/l

RT: 2.42 min Scan# 251

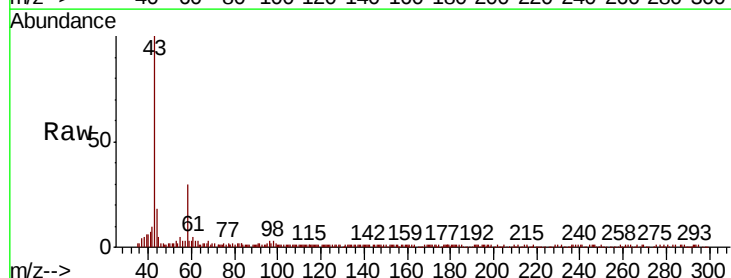
Delta R.T. 0.00 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Tgt Ion: 43 Resp: 41132

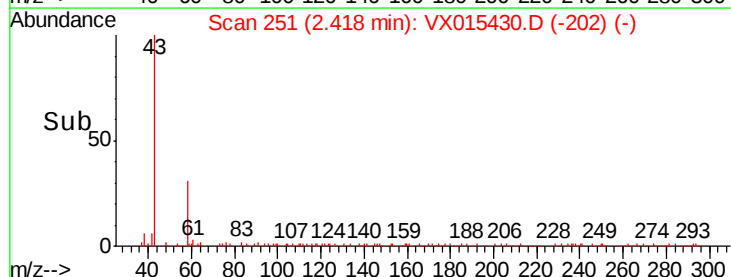
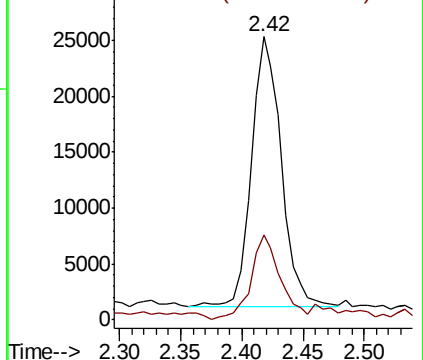
Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.1	33.1

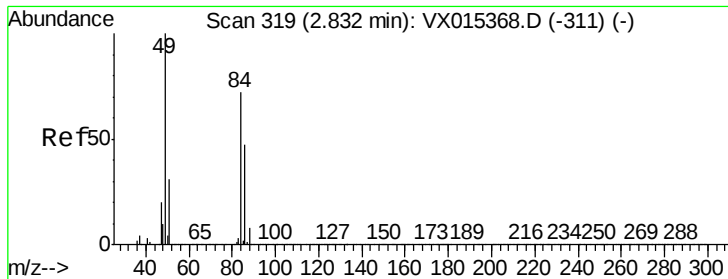


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

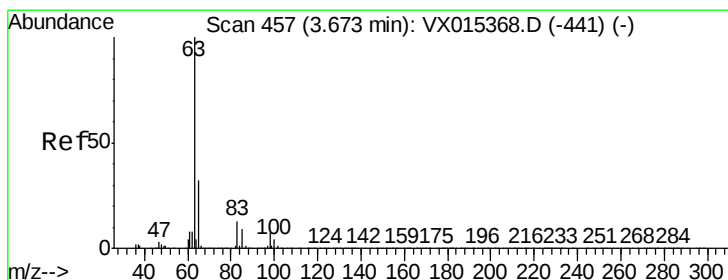
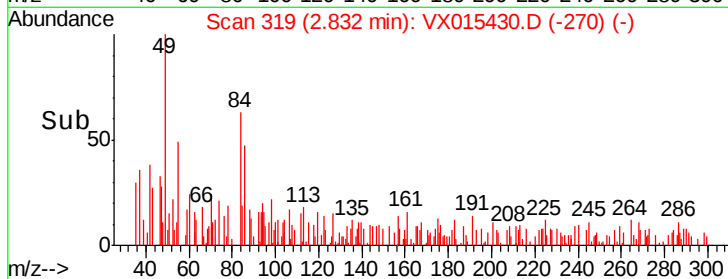
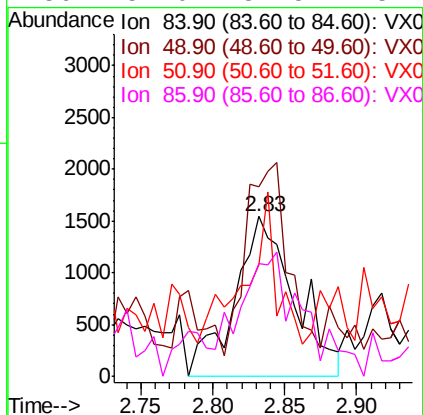
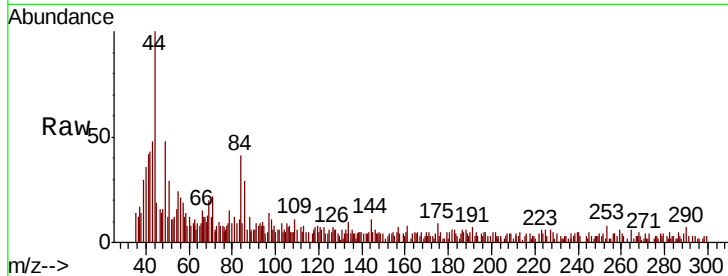




#20
Methvlene Chloride
Concen: 0.342 ug/l
RT: 2.83 min Scan# 319
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

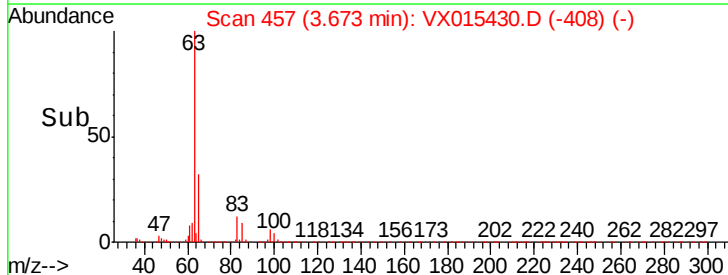
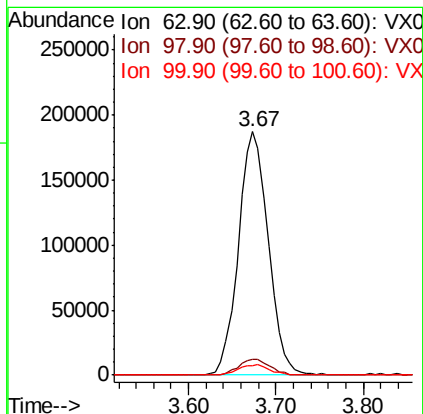
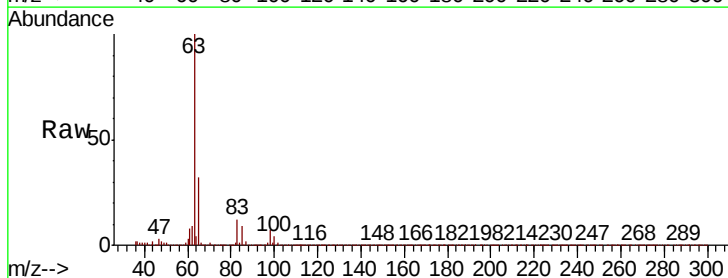
Instrument :
MSVOA_X
ClientSampled :

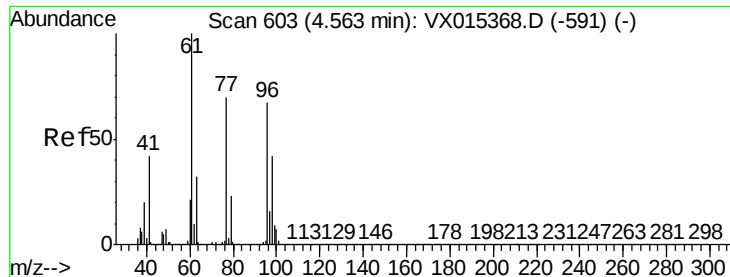
Tot Ion:	84	Resp:	4484
Ion	Ratio	Lower	Upper
84	100		
49	88.0	111.3	166.9#
51	39.4	34.0	51.0
86	54.0	52.5	78.7



#24
1,1-Dichloroethane
Concen: 18.649 ug/l
RT: 3.67 min Scan# 457
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Tgt Ion:	63	Resp:	444609
Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.0	2.1	6.5



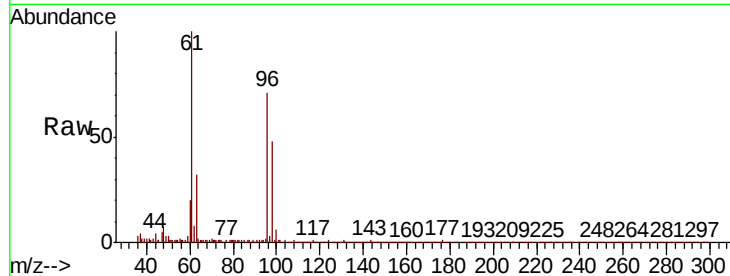


#27

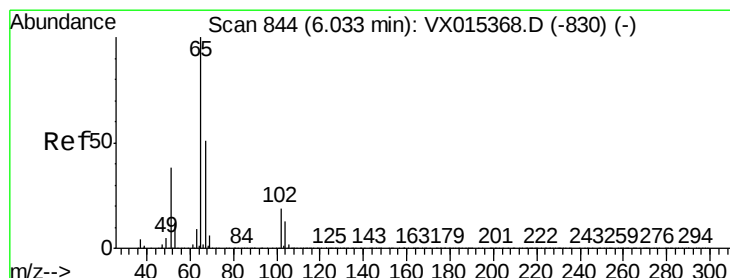
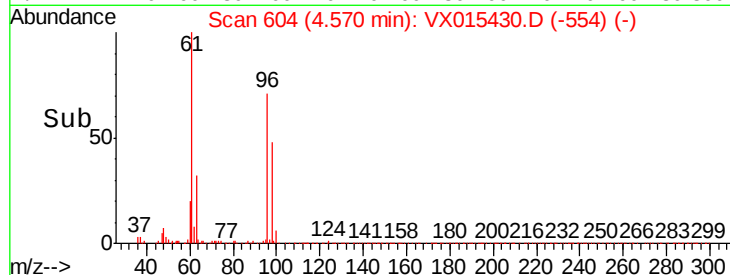
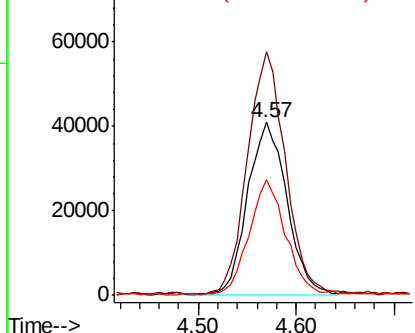
cis-1,2-Dichloroethene
Concen: 8.199 ug/l
RT: 4.57 min Scan# 604
Delta R.T. 0.01 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.8	0.0	308.4
98	62.2	0.0	129.2



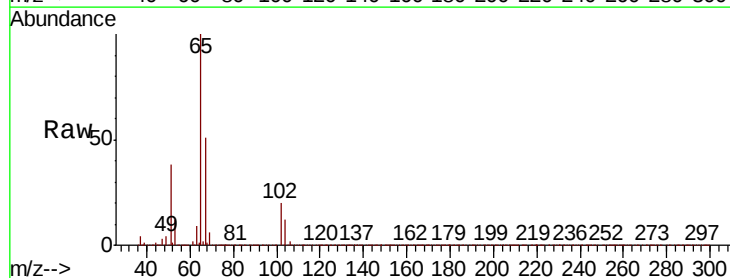
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



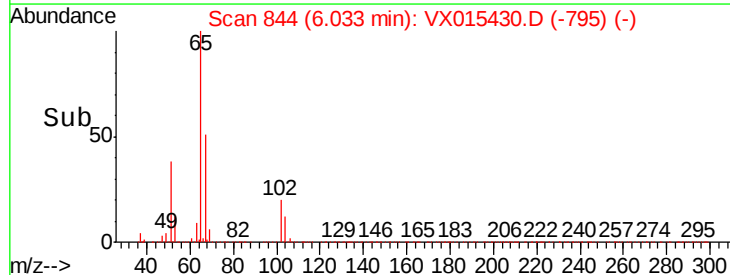
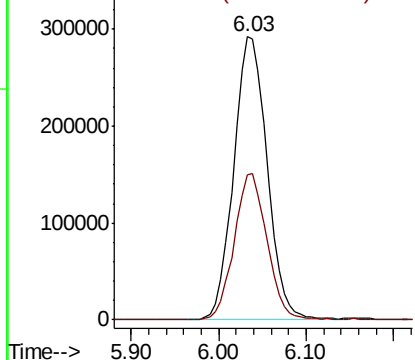
#33

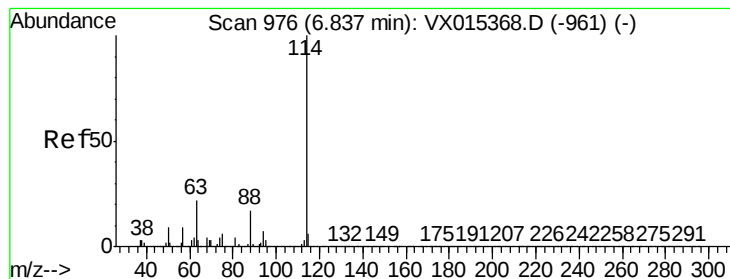
1,2-Dichloroethane-d4
Concen: 47.413 ug/l
RT: 6.03 min Scan# 844
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	102.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

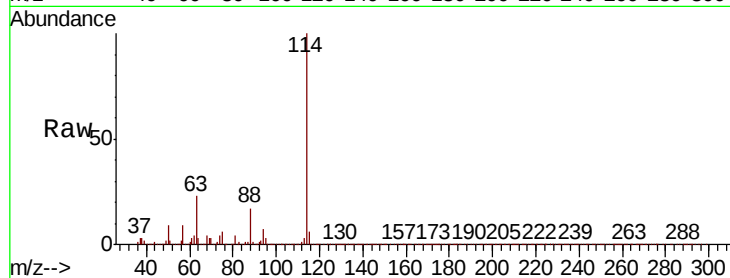
Tot Ion:114 Resp: 1864954

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.2

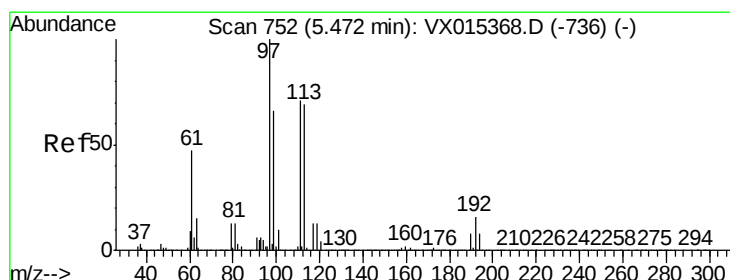
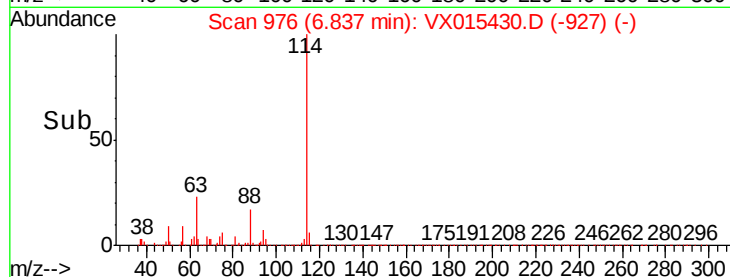
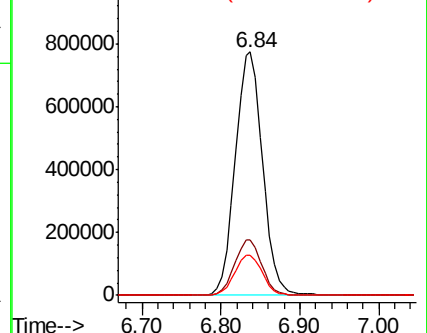
88 16.6 0.0 33.8



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



#35

Dibromofluoromethane

Concen: 49.669 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

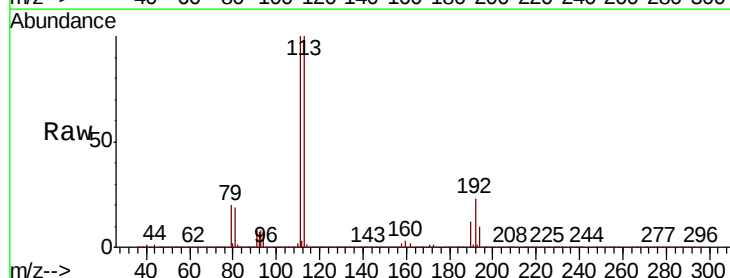
Tgt Ion:113 Resp: 592116

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

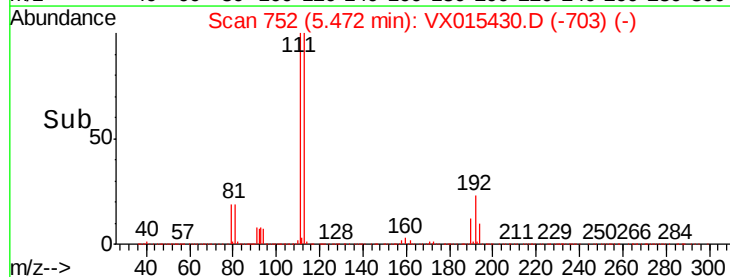
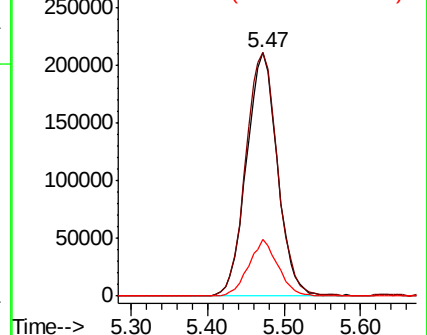
192 22.1 17.8 26.6

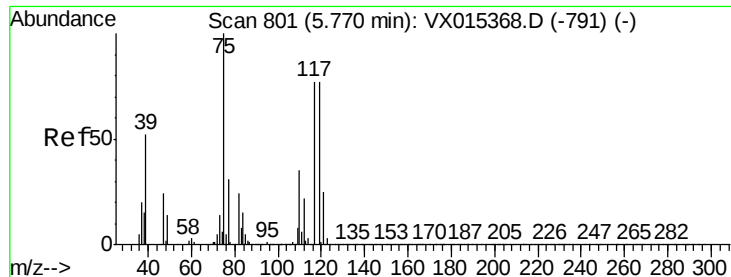


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.109 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.14 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

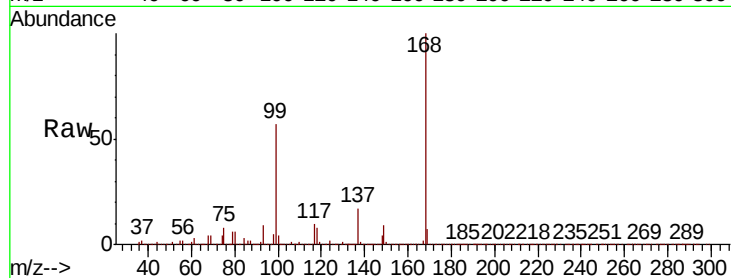
Tot Ion: 75 Resp: 87782

Ion Ratio Lower Upper

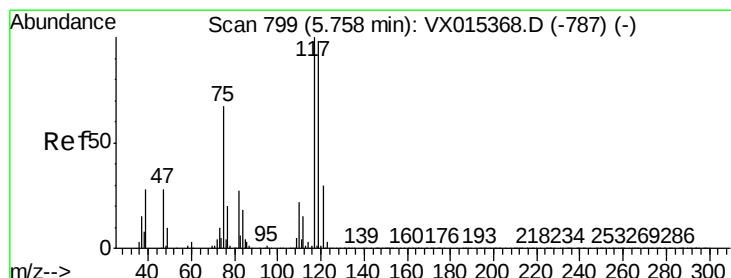
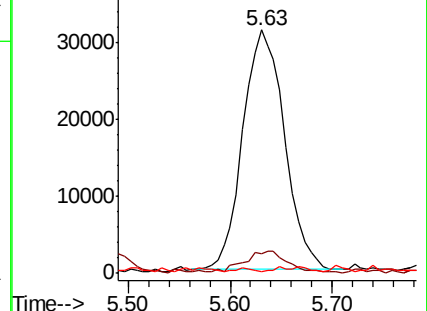
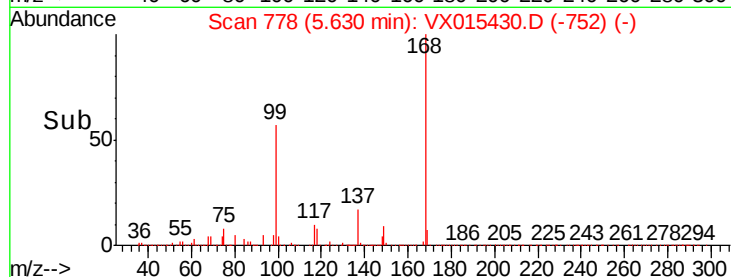
75 100

110 10.5 17.1 51.3#

77 0.6 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX015430.D (-752) (-)



#38

Carbon Tetrachloride

Concen: 6.084 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

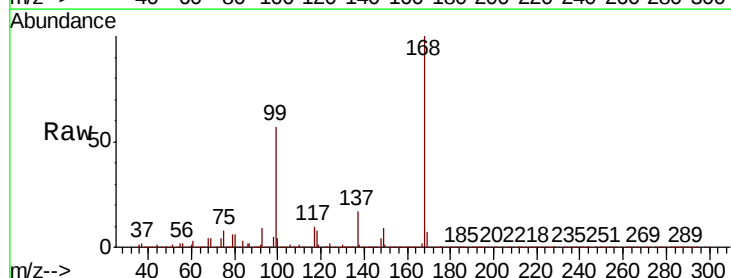
Tgt Ion: 117 Resp: 113232

Ion Ratio Lower Upper

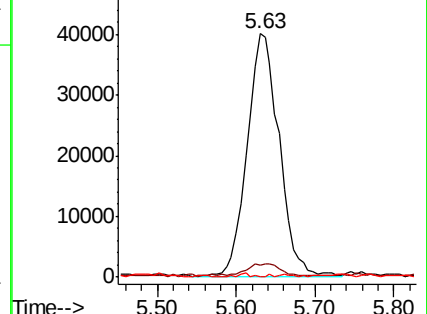
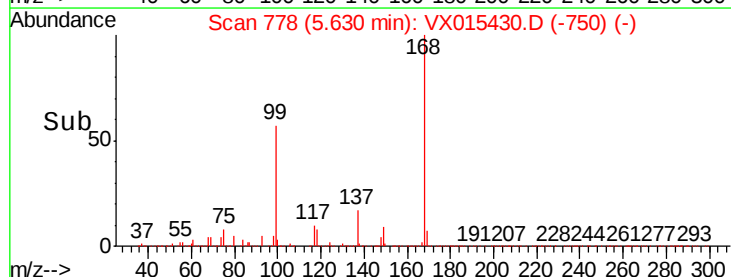
117 100

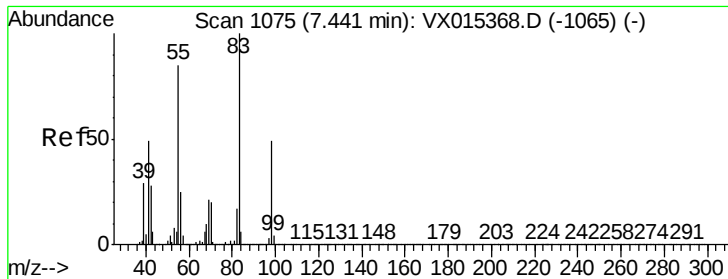
119 4.0 78.0 117.0#

121 0.7 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): VX015430.D (-750) (-)

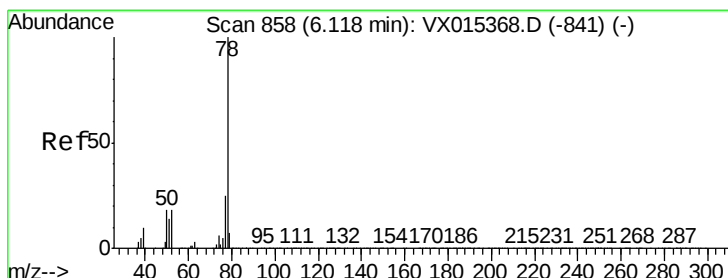
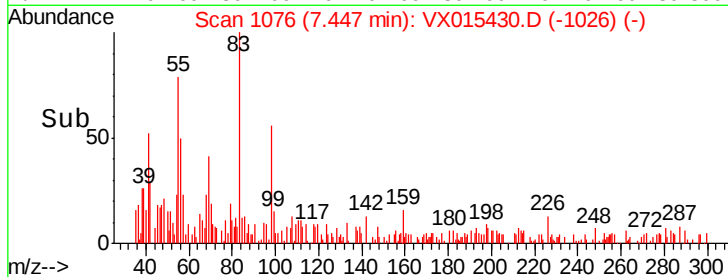
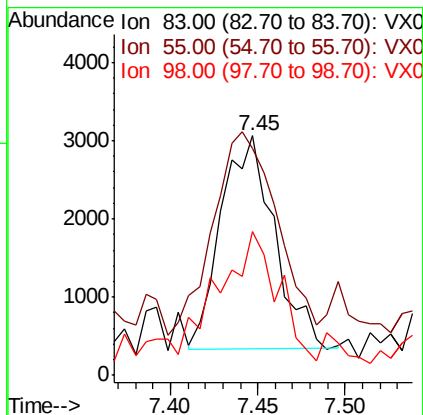
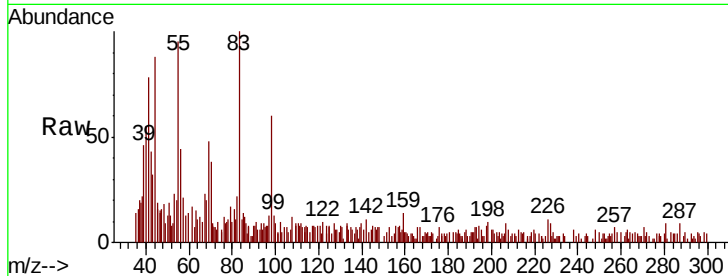




#39
Methvlcvclohexane
Concen: 0.291 ug/l
RT: 7.45 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

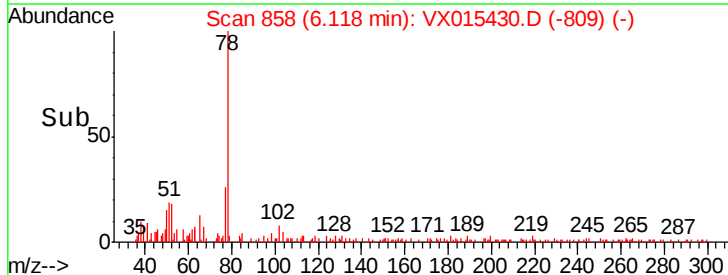
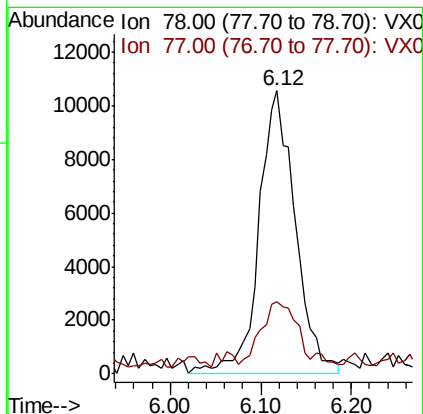
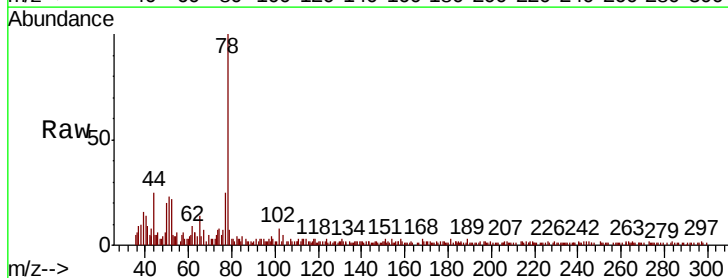
Instrument :
MSVOA_X
ClientSampleId :

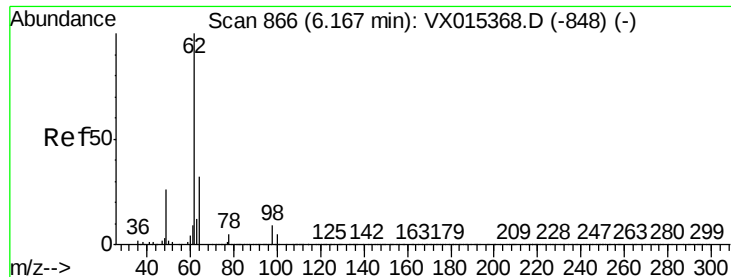
Tot Ion: 83 Resp: 5774
Ion Ratio Lower Upper
83 100
55 70.3 67.8 101.6
98 53.0 39.3 58.9



#40
Benzene
Concen: 0.584 ug/l
RT: 6.12 min Scan# 858
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Tgt Ion: 78 Resp: 29379
Ion Ratio Lower Upper
78 100
77 22.3 19.8 29.8





#42

1,2-Dichloroethane

Concen: 2.826 ug/l

RT: 6.16 min Scan# 865

Delta R.T. -0.01 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

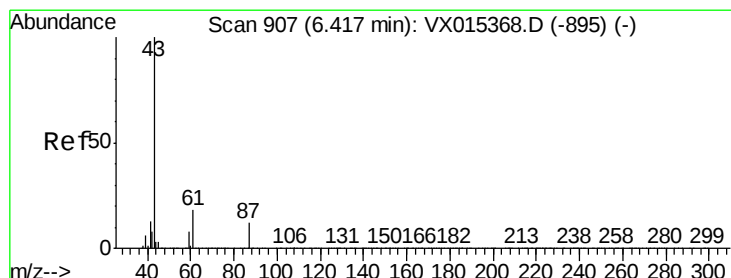
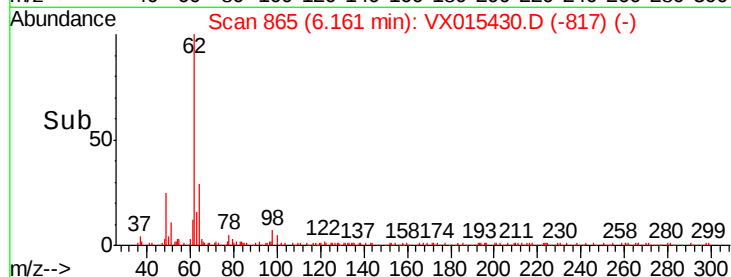
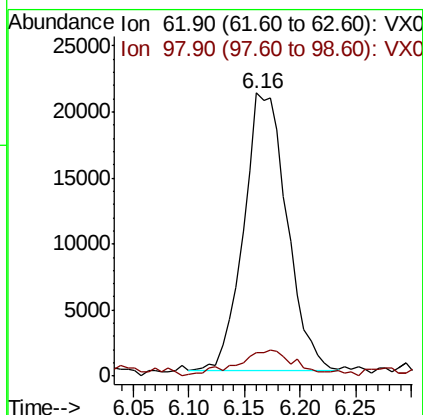
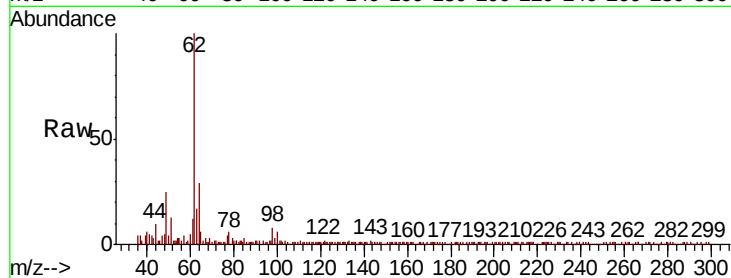
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 62 Resp: 57147

Ion Ratio Lower Upper

62 100

98 9.0 0.0 17.6



#43

Isopropyl Acetate

Concen: 4.221 ug/l

RT: 6.31 min Scan# 889

Delta R.T. -0.11 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

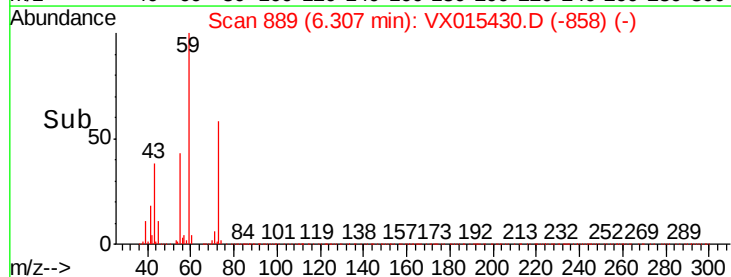
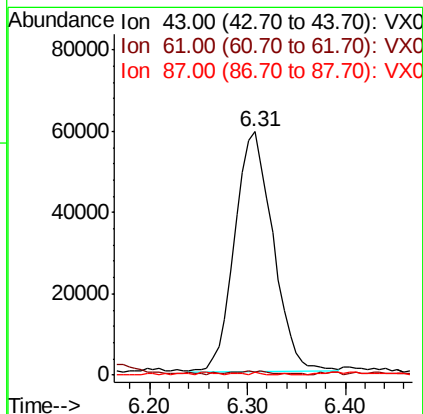
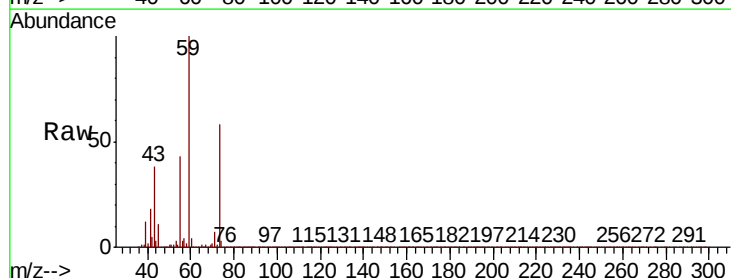
Tgt Ion: 43 Resp: 159426

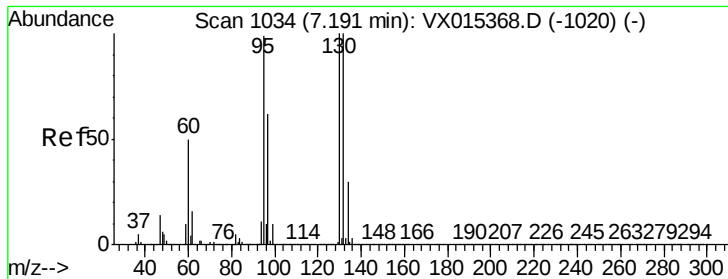
Ion Ratio Lower Upper

43 100

61 0.6 14.8 22.2#

87 0.3 9.4 14.0#

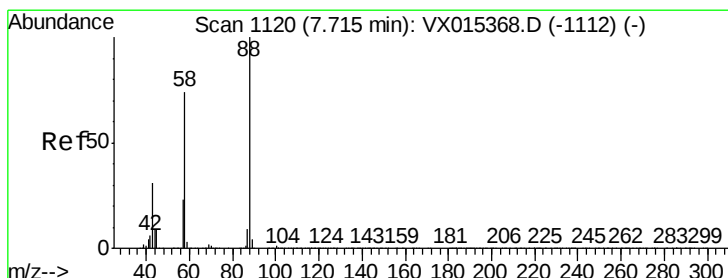
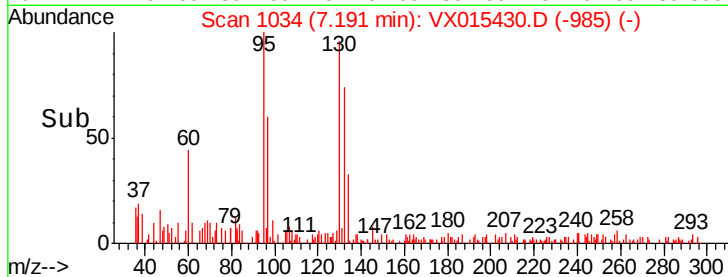
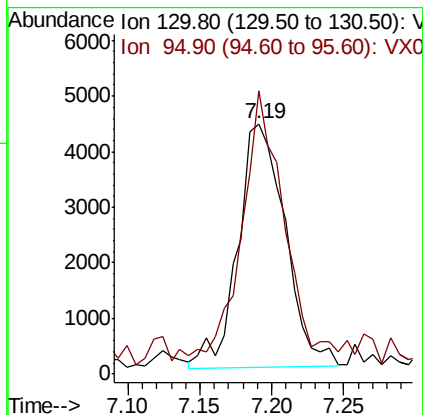
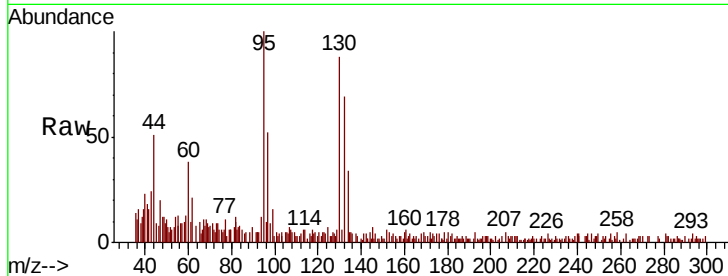




#44
 Trichloroethene
 Concen: 0.727 ug/l
 RT: 7.19 min Scan# 1034
 Delta R.T. 0.00 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

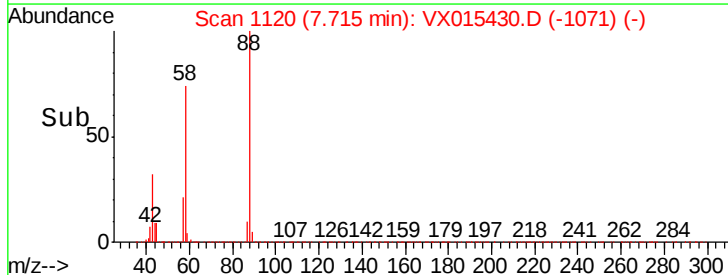
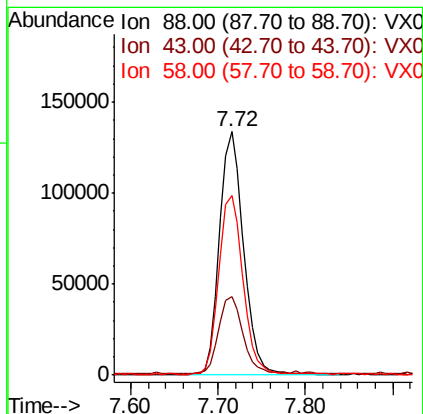
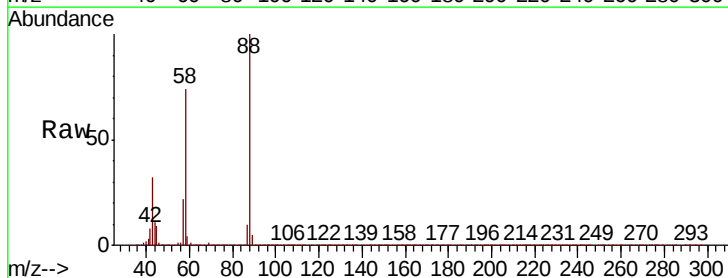
Instrument :
 MSVOA_X
 ClientSampleId :

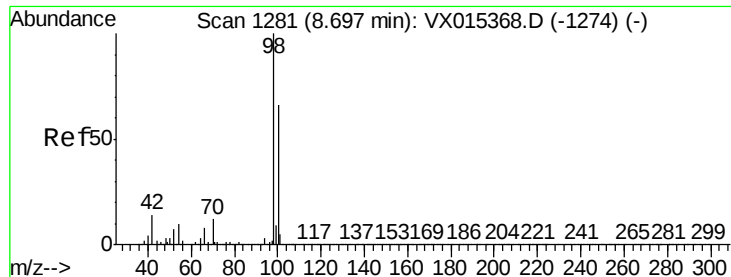
Tot Ion:130 Resp: 9981
 Ion Ratio Lower Upper
 130 100
 95 110.1 0.0 199.0



#49
 1,4-Dioxane
 Concen: 721.438 ug/l
 RT: 7.72 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

Tgt Ion: 88 Resp: 253901
 Ion Ratio Lower Upper
 88 100
 43 31.8 30.1 45.1
 58 73.8 60.6 90.8

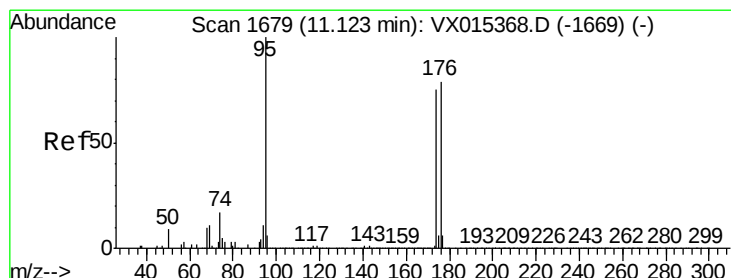
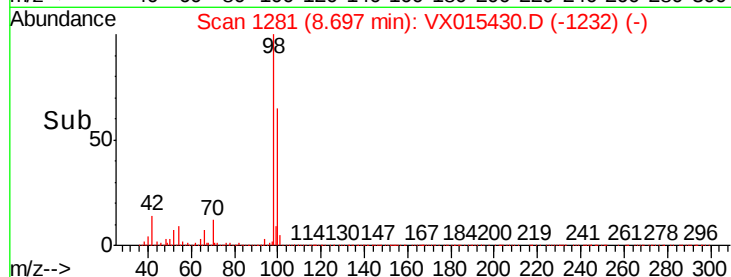
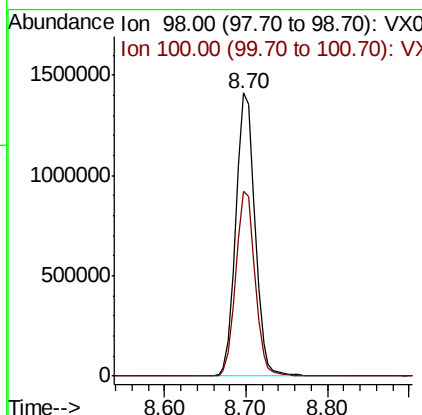
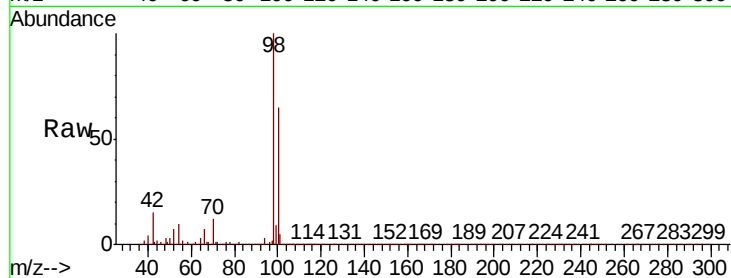




#50
Toluene-d8
Concen: 51.546 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

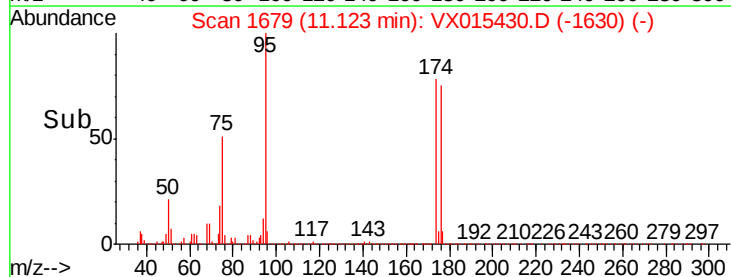
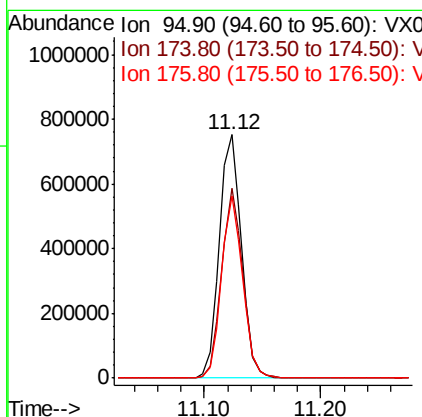
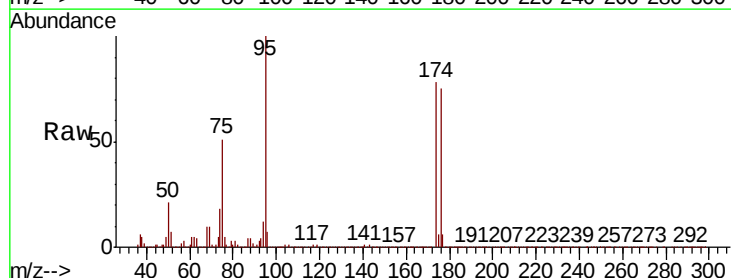
Instrument :
MSVOA_X
ClientSampleId :

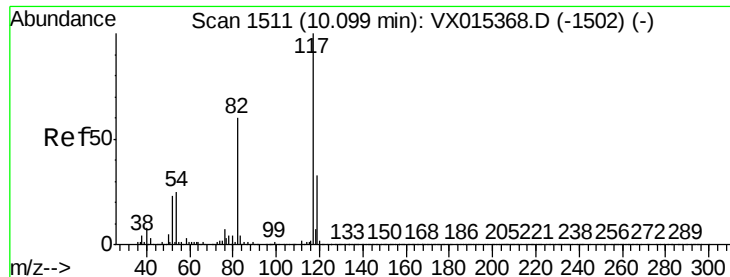
Tot Ion: 98 Resp: 2262425
Ion Ratio Lower Upper
98 100
100 65.4 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 54.877 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Tgt Ion: 95 Resp: 978855
Ion Ratio Lower Upper
95 100
174 75.4 0.0 158.6
176 71.9 0.0 159.0

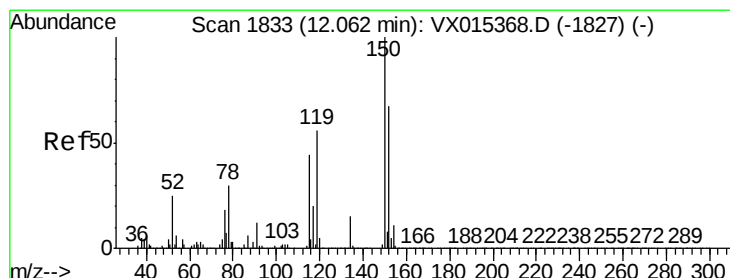
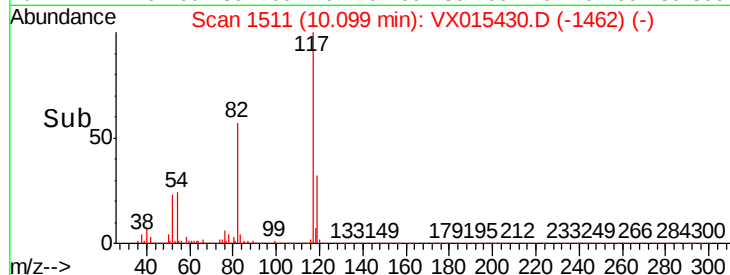
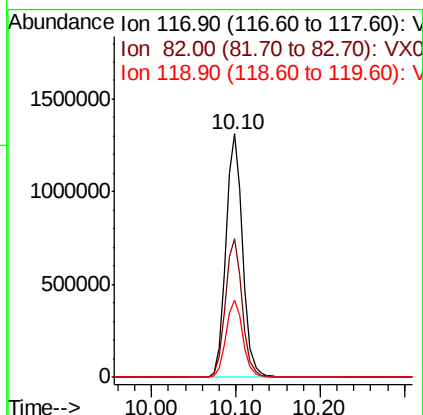
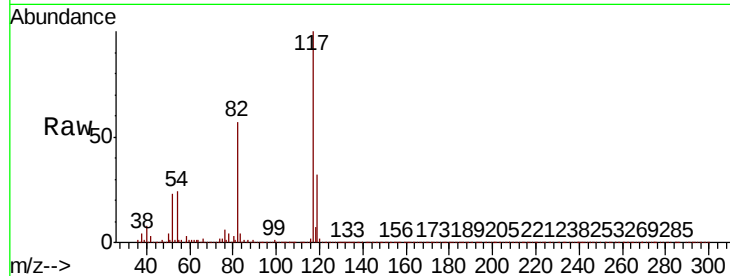




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

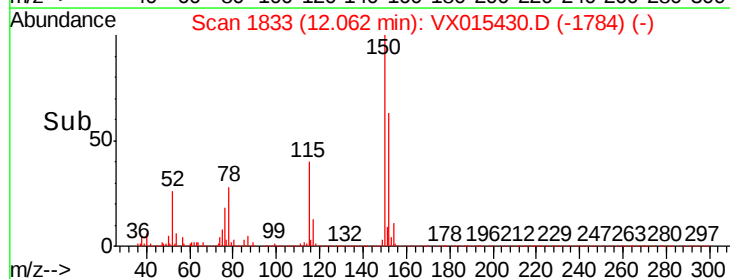
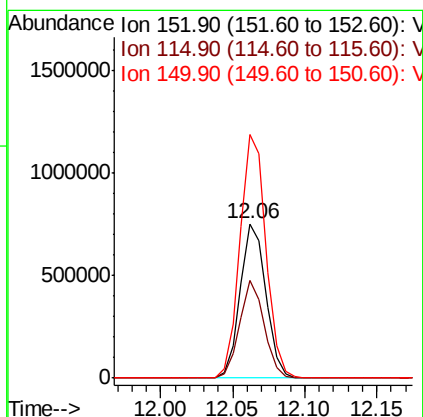
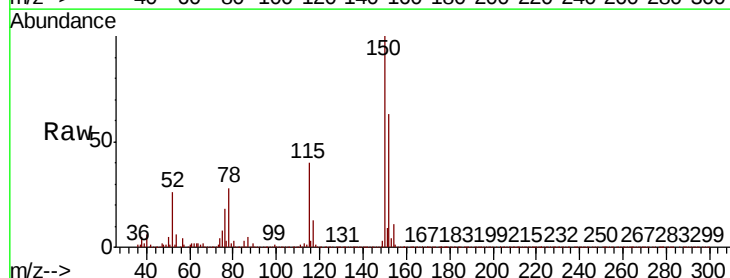
Instrument :
MSVOA_X
ClientSampleId :

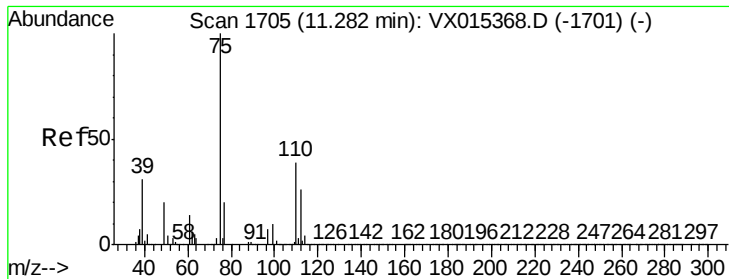
Tot Ion:117 Resp: 1796202
Ion Ratio Lower Upper
117 100
82 56.9 47.8 71.8
119 31.5 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015430.D
Acq: 30 Mar 2020 16:05

Tgt Ion:152 Resp: 934663
Ion Ratio Lower Upper
152 100
115 60.3 39.0 116.9
150 158.9 0.0 340.8

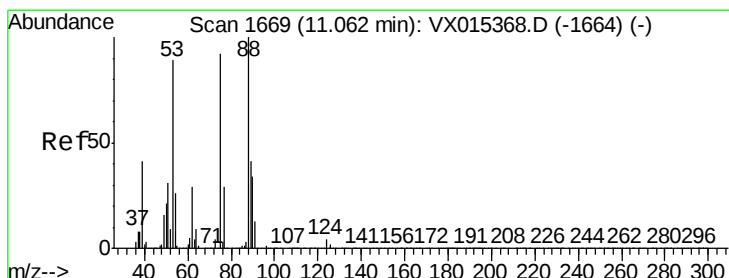
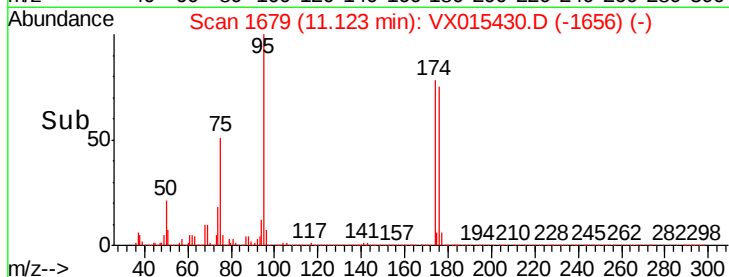
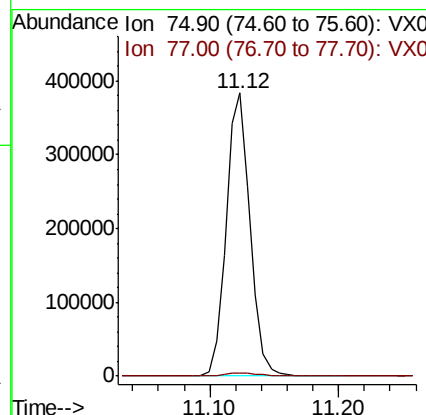
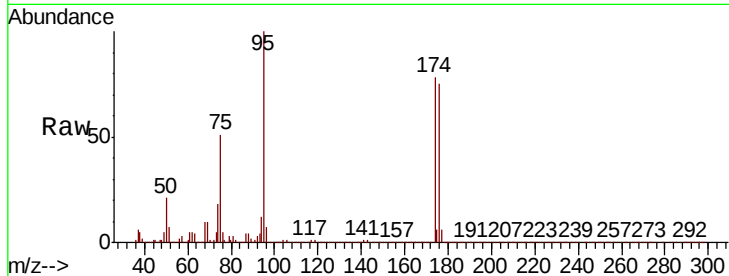




#76
 1,2,3-Trichloropropane
 Concen: 25.902 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

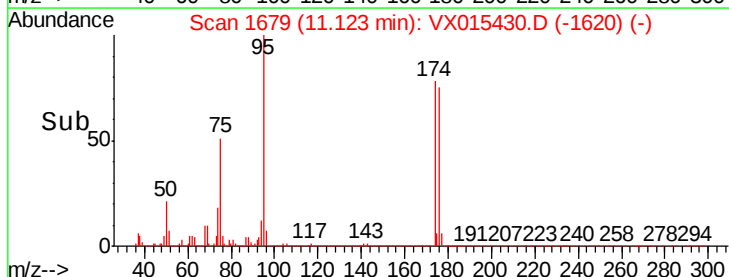
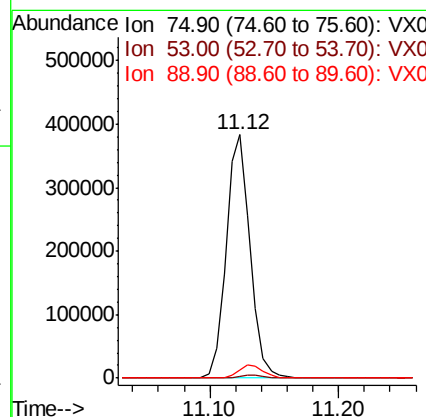
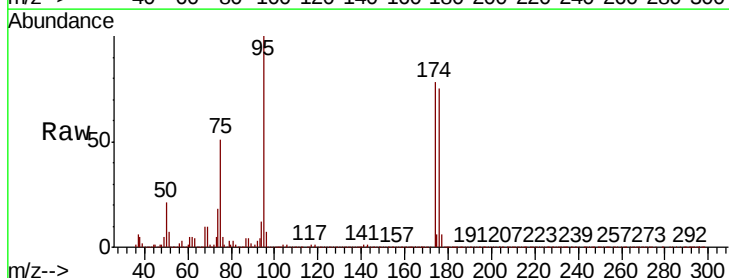
Instrument :
 MSVOA_X
 ClientSampled :

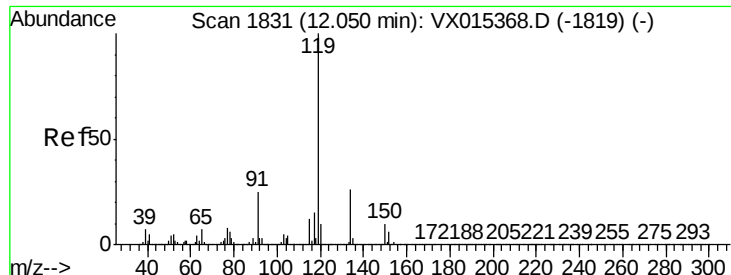
Tot Ion: 75 Resp: 497851
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.151 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015430.D
 Acq: 30 Mar 2020 16:05

Tgt Ion: 75 Resp: 497851
 Ion Ratio Lower Upper
 75 100
 53 1.2 80.1 120.1#
 89 5.1 36.1 54.1#





#86

p-Isopropyltoluene

Concen: 0.204 ug/l

RT: 12.21 min Scan# 1858

Delta R.T. 0.16 min

Lab File: VX015430.D

Acq: 30 Mar 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

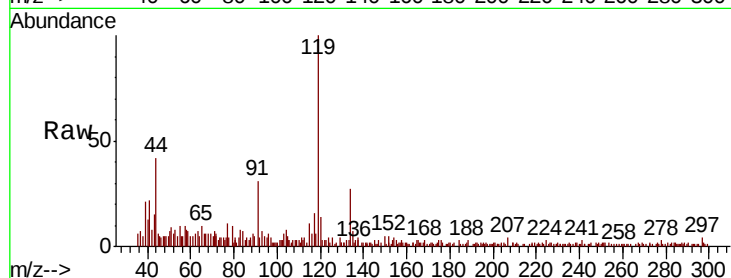
Tot Ion:119 Resp: 11173

Ion Ratio Lower Upper

119 100

134 28.2 13.1 39.3

91 32.5 12.4 37.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

