

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010419\
 Data File : VX006921.D
 Acq On : 04 Jan 2019 18:44
 Operator : JC/MD
 Sample : K1057-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0648

Quant Time: Jan 04 22:21:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	641919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	980042	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	907624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	439404	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	335653	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
35) Dibromofluoromethane	5.50	113	302994	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
50) Toluene-d8	8.71	98	1163769	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.13	95	411932	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	

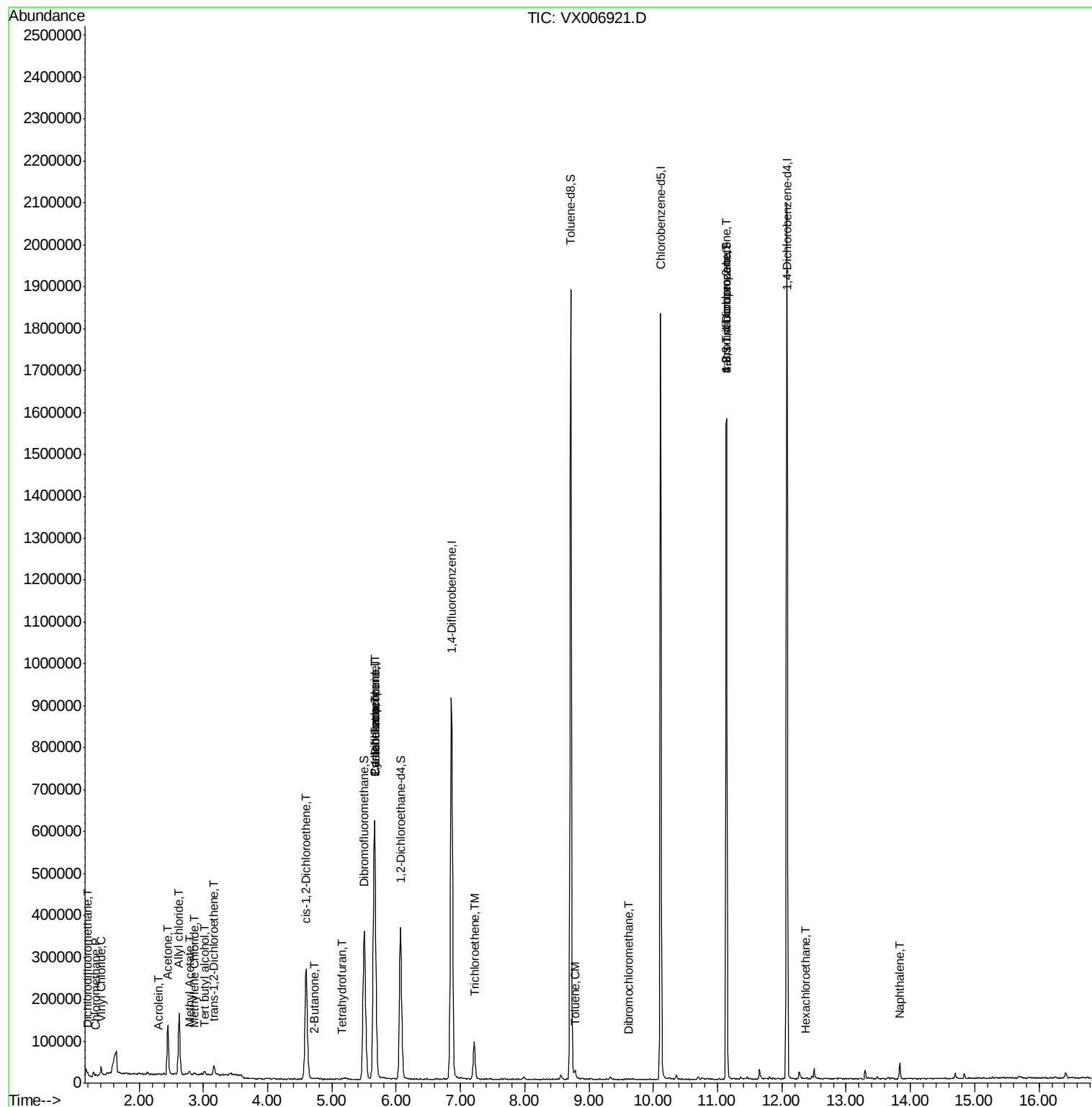
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	5228	0.890	ug/l	94
3) Chloromethane	1.33	50	1964	0.310	ug/l #	86
4) Vinyl Chloride	1.41	62	9269	1.403	ug/l	99
5) Bromomethane	1.65	94	1402	Below Cal	#	64
11) Tert butyl alcohol	3.01	59	5604	3.630	ug/l #	72
13) Acrolein	2.31	56	472	0.453	ug/l	100
14) Allyl chloride	2.62	41	14358	1.487	ug/l #	64
16) Acetone	2.45	43	130258	40.981	ug/l	98
18) Methyl Acetate	2.78	43	10940	1.171	ug/l #	87
20) Methylene Chloride	2.86	84	2326	0.354	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	8581	1.350	ug/l	82
25) 2-Butanone	4.72	43	1934	0.433	ug/l #	63
27) cis-1,2-Dichloroethene	4.60	96	175540	25.037	ug/l	93
28) Bromochloromethane	5.01	49	204	Below Cal	#	14
29) Tetrahydrofuran	5.16	42	1627	0.553	ug/l #	56
31) Cyclohexane	5.67	56	10562	1.103	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	40999	5.051	ug/l #	49
38) Carbon Tetrachloride	5.66	117	58425	7.406	ug/l #	14
44) Trichloroethene	7.21	130	38192	5.114	ug/l	95
49) 1,4-Dioxane	7.77	88	206	Below Cal	#	24
52) Toluene	8.79	92	5008	0.314	ug/l	91
60) Dibromochloromethane	9.62	129	50	2.331	ug/l	56
76) 1,2,3-Trichloropropane	11.13	75	195826	23.981	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	195826	71.035	ug/l #	10
90) Hexachloroethane	12.38	117	88	3.313	ug/l	71
95) Naphthalene	13.83	128	22126	0.686	ug/l	96

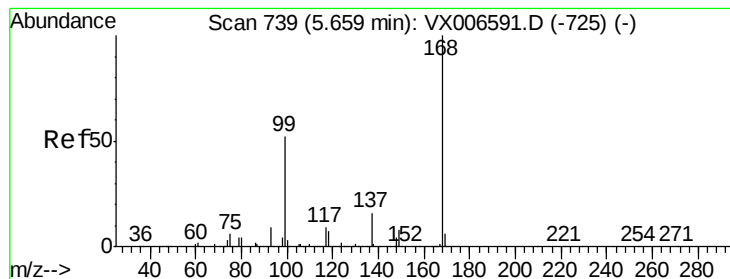
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

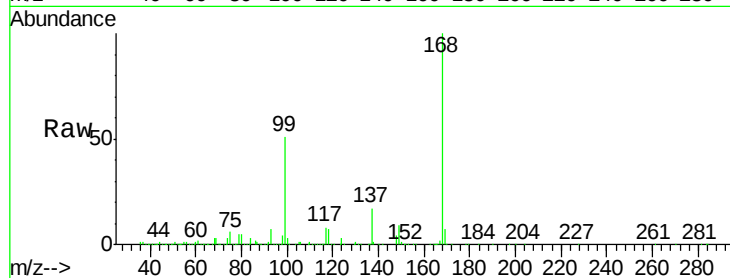
S32-0648

Tot Ion:168 Resp: 641919

Ion Ratio Lower Upper

168 100

99 50.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

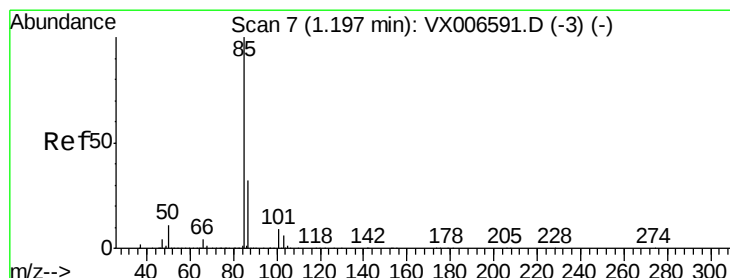
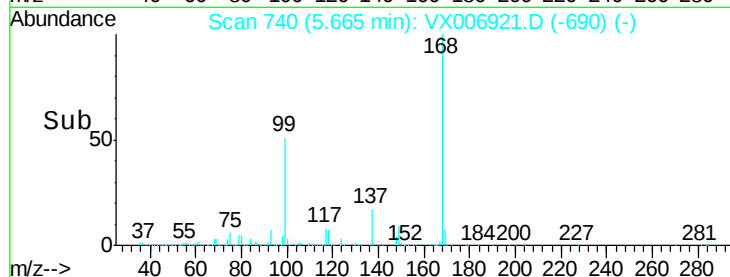
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.890 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006921.D

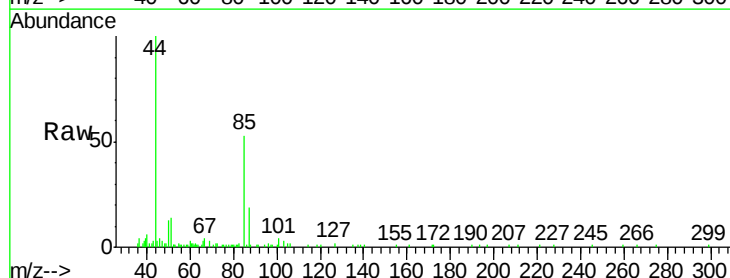
Acq: 04 Jan 2019 18:44

Tgt Ion: 85 Resp: 5228

Ion Ratio Lower Upper

85 100

87 35.1 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

5000

4000

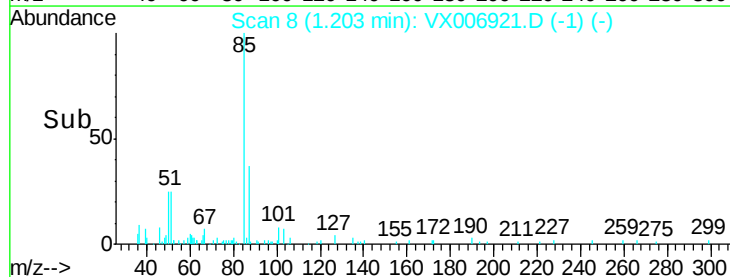
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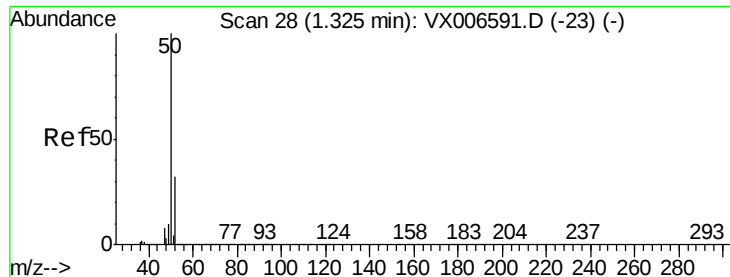
2000

1000

0

Time-->





#3

Chloromethane

Concen: 0.310 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

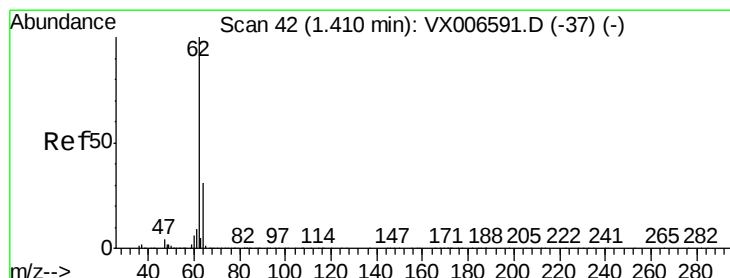
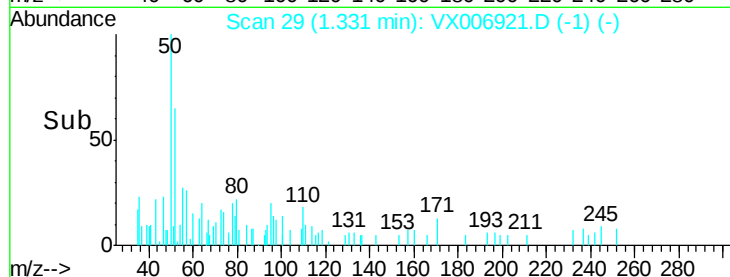
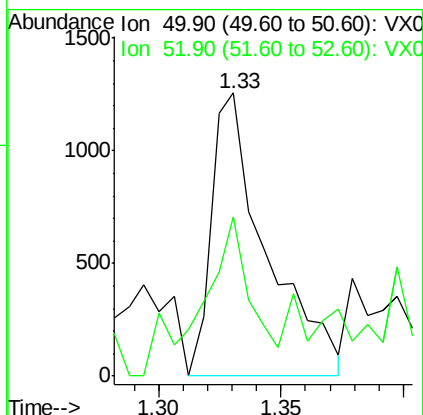
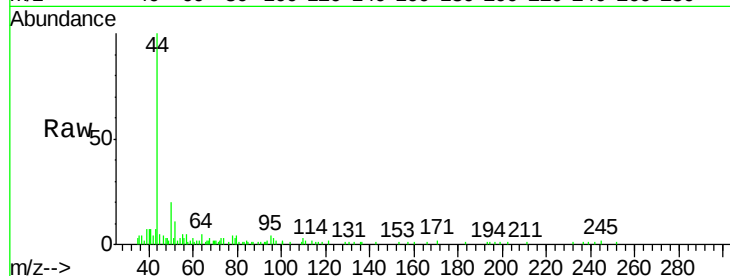
S32-0648

Tot Ion: 50 Resp: 1964

Ion Ratio Lower Upper

50 100

52 39.9 25.4 38.2#



#4

Vinyl Chloride

Concen: 1.403 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006921.D

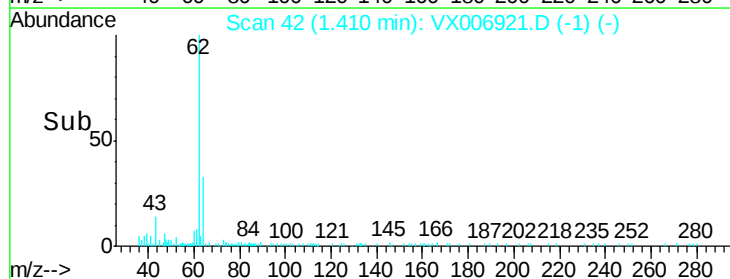
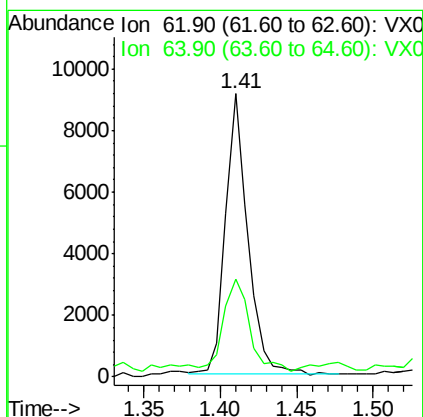
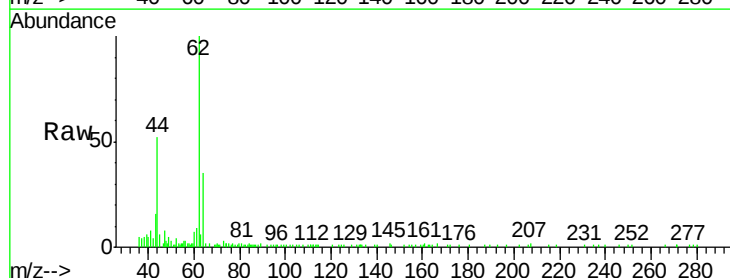
Acq: 04 Jan 2019 18:44

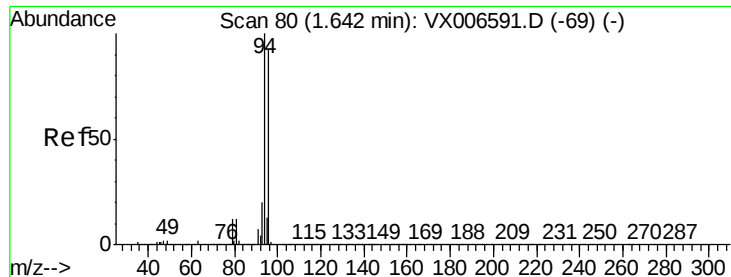
Tgt Ion: 62 Resp: 9269

Ion Ratio Lower Upper

62 100

64 30.7 25.1 37.7





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

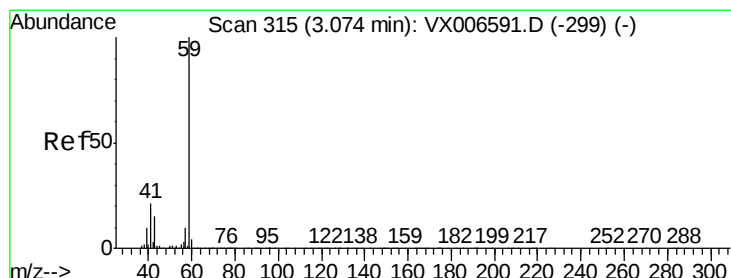
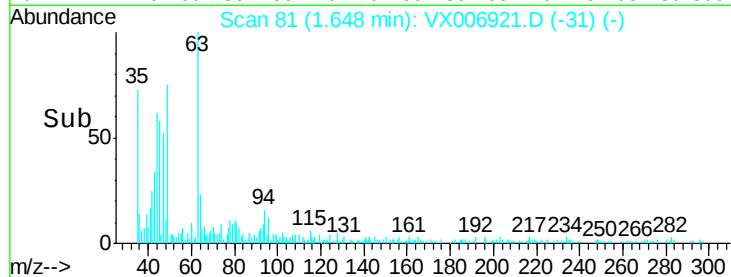
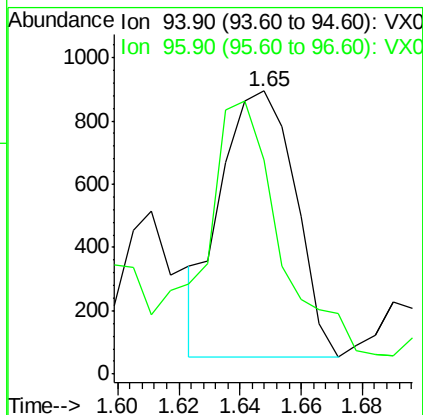
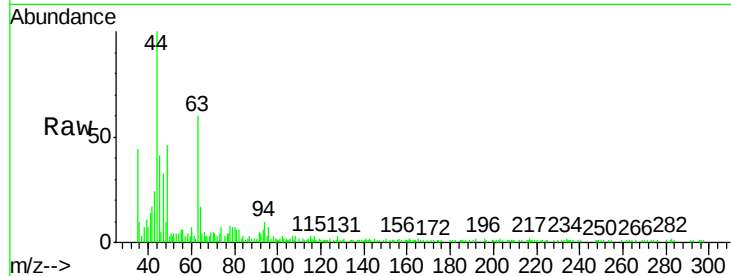
S32-0648

Tot Ion: 94 Resp: 1402

Ion Ratio Lower Upper

94 100

96 57.9 73.4 110.2#



#11

Tert butyl alcohol

Concen: 3.630 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.06 min

Lab File: VX006921.D

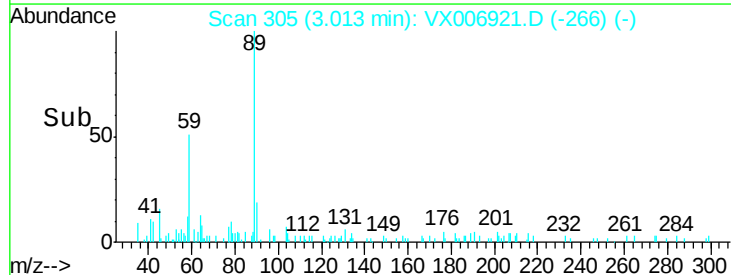
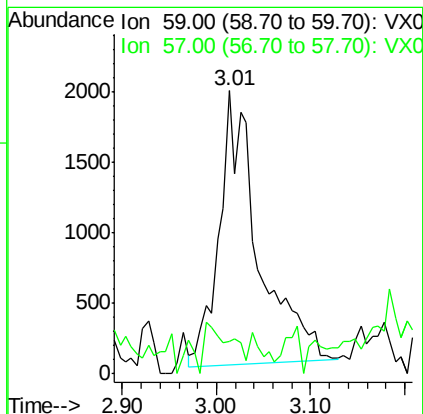
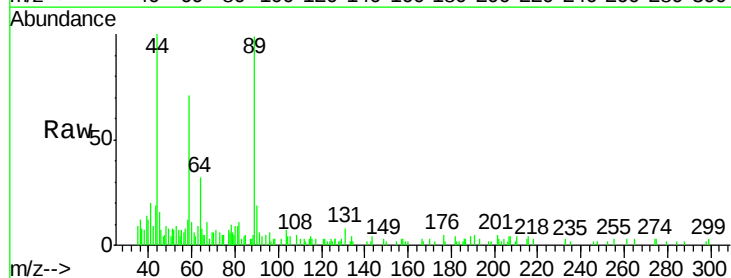
Acq: 04 Jan 2019 18:44

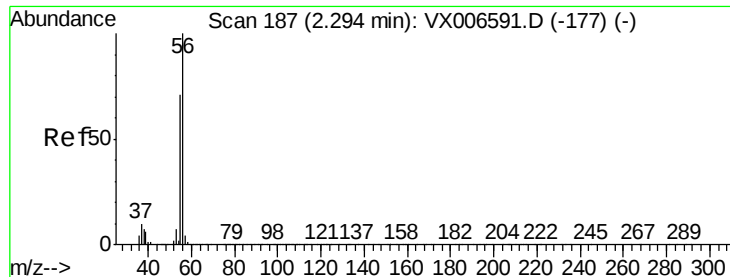
Tgt Ion: 59 Resp: 5604

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.453 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

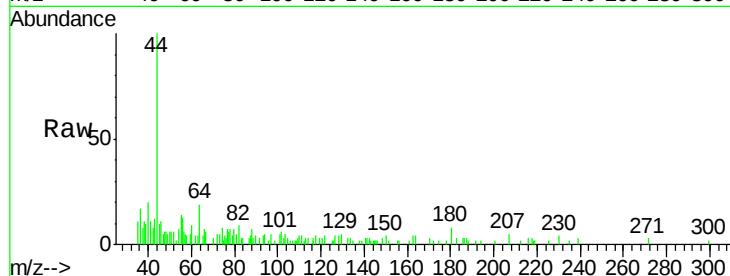
S32-0648

Tot Ion: 56 Resp: 472

Ion Ratio Lower Upper

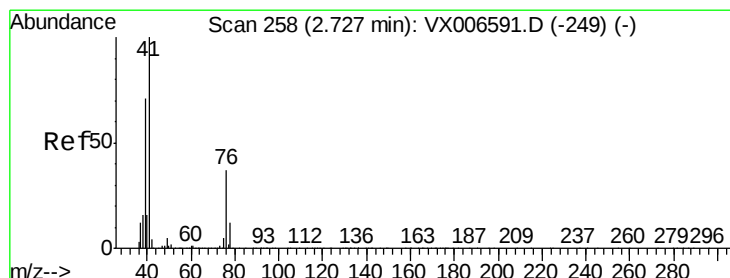
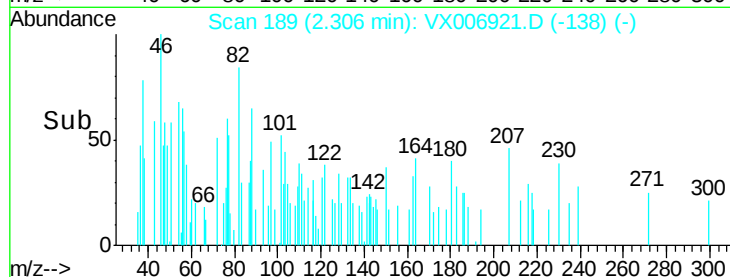
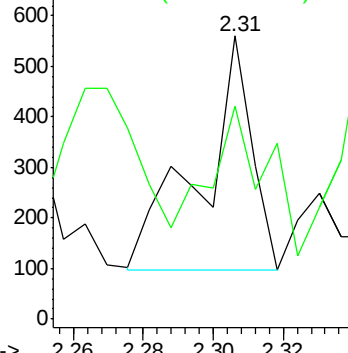
56 100

55 72.5 58.2 87.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 1.487 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

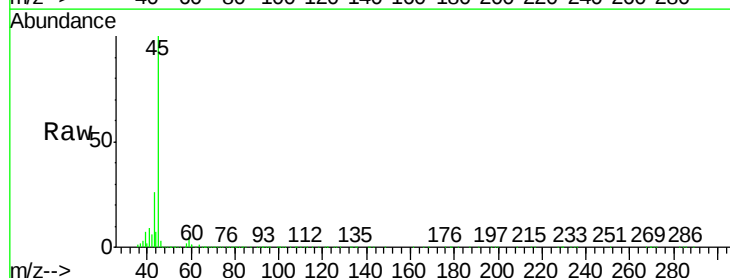
Tgt Ion: 41 Resp: 14358

Ion Ratio Lower Upper

41 100

39 86.5 53.6 80.4#

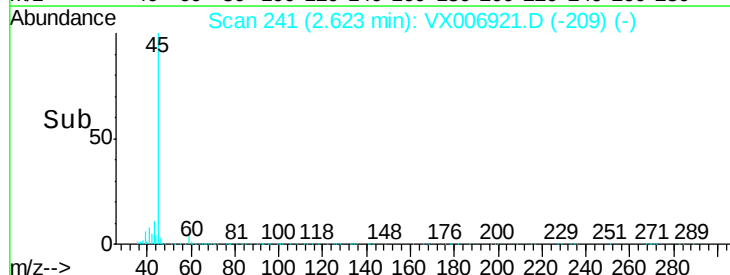
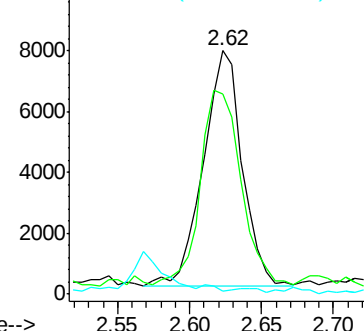
76 0.0 27.4 41.2#

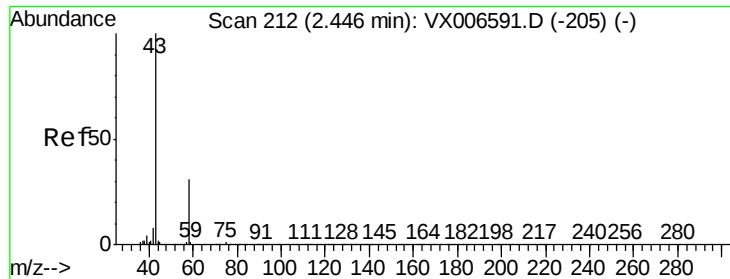


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

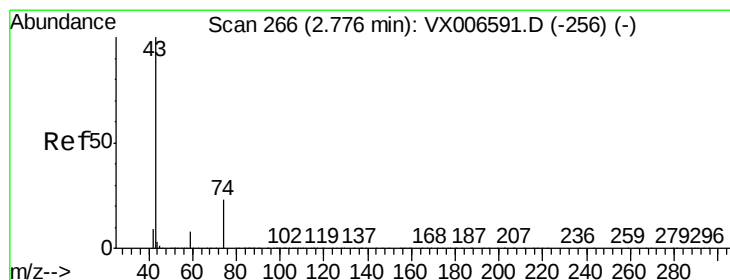
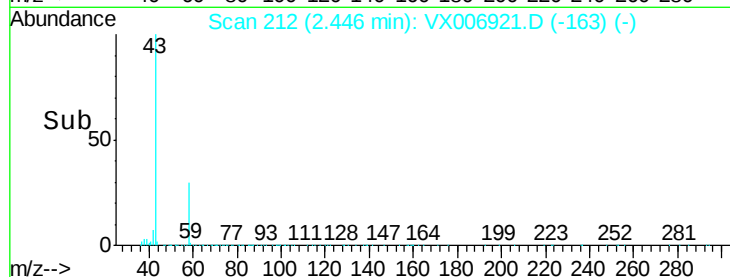
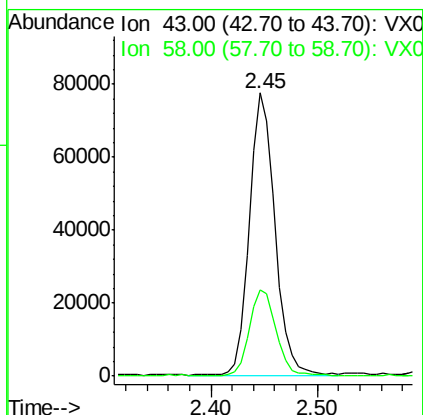
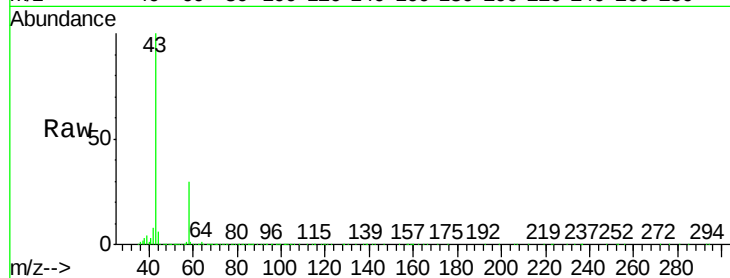




#16
Acetone
Concen: 40.981 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

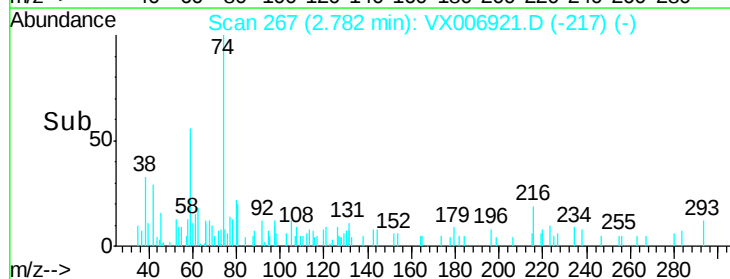
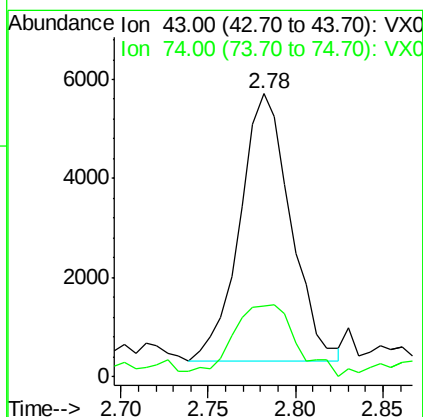
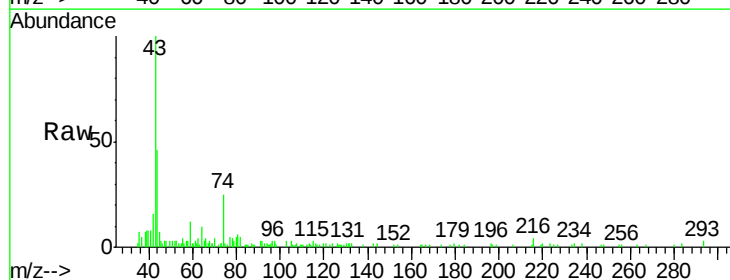
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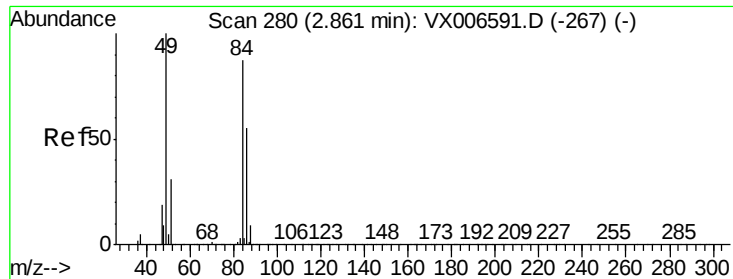
Tot Ion: 43 Resp: 130258
Ion Ratio Lower Upper
43 100
58 30.4 25.0 37.6



#18
Methyl Acetate
Concen: 1.171 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Tgt Ion: 43 Resp: 10940
Ion Ratio Lower Upper
43 100
74 29.5 18.6 28.0#

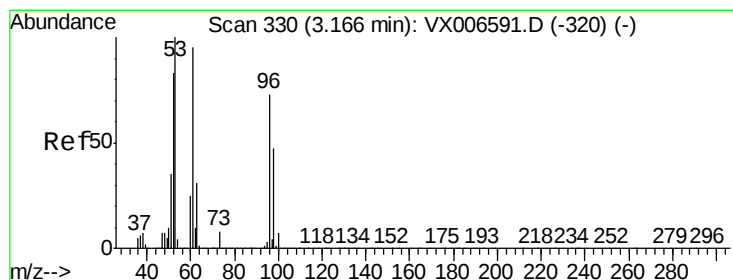
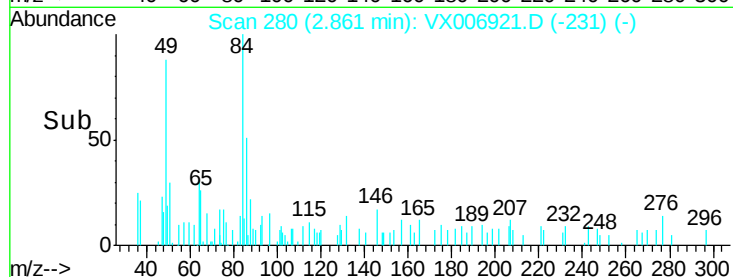
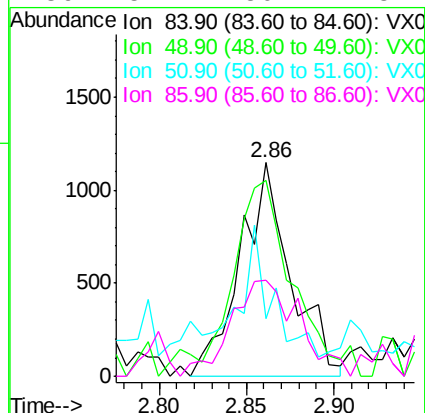
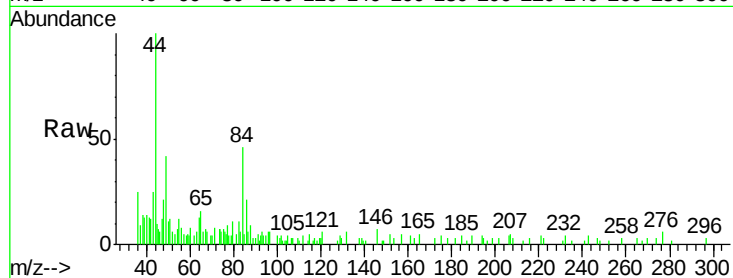




#20
Methvlene Chloride
Concen: 0.354 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

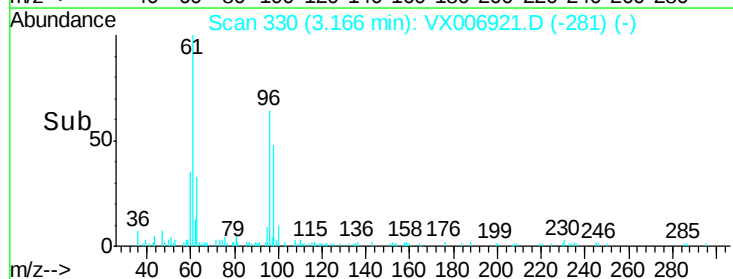
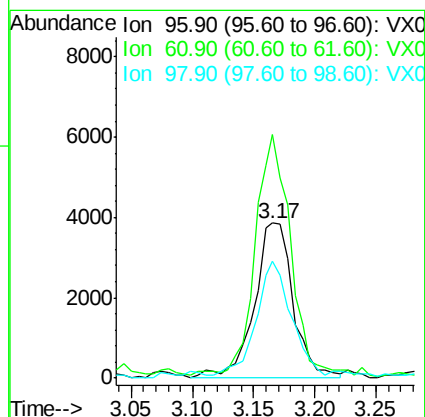
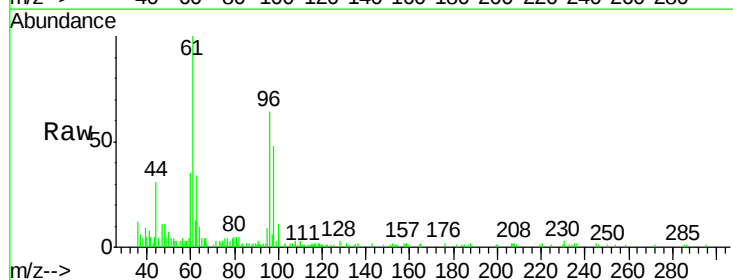
Instrument :
MSVOA_X
ClientSampleId :
S32-0648

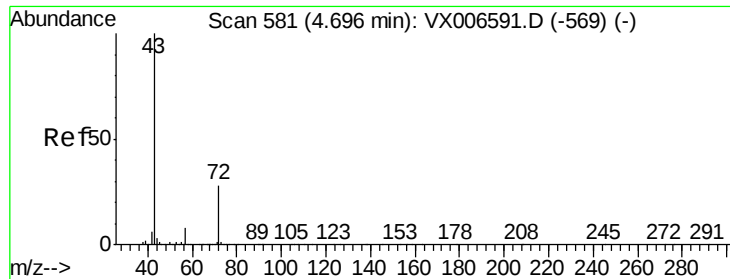
Tot Ion:	84	Resp:	2326
Ion	Ratio	Lower	Upper
84	100		
49	83.9	91.8	137.6#
51	13.9	28.5	42.7#
86	52.7	50.2	75.2



#21
trans-1,2-Dichloroethene
Concen: 1.350 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Tgt Ion:	96	Resp:	8581
Ion	Ratio	Lower	Upper
96	100		
61	155.0	103.7	155.5
98	71.1	51.0	76.6





#25

2-Butanone

Concen: 0.433 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

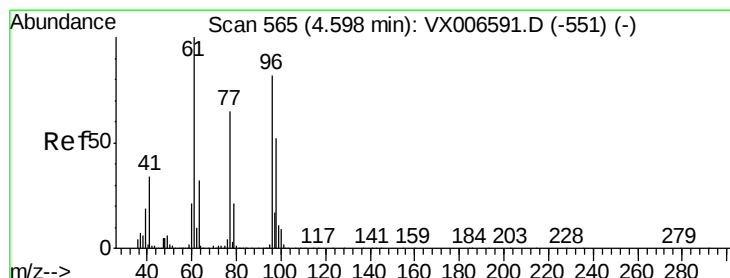
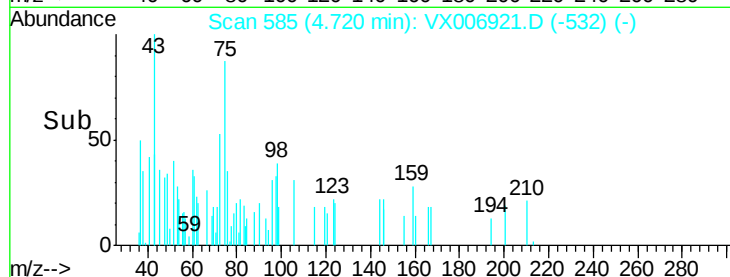
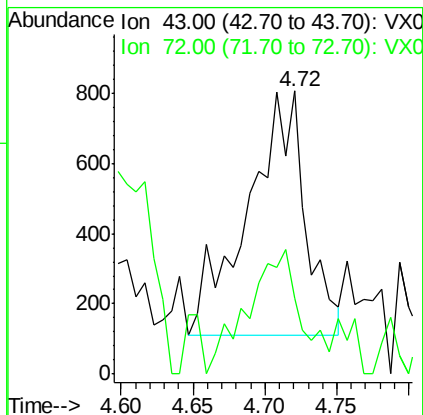
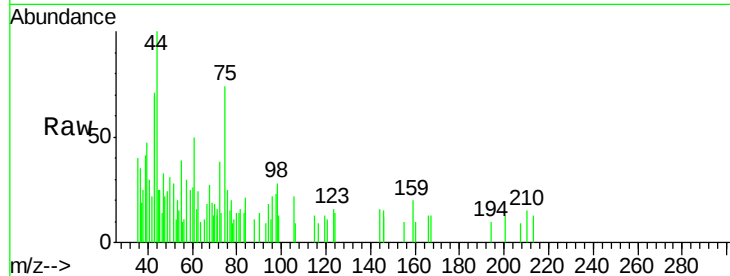
S32-0648

Tot Ion: 43 Resp: 1934

Ion Ratio Lower Upper

43 100

72 8.3 22.4 33.6#



#27

cis-1,2-Dichloroethene

Concen: 25.037 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

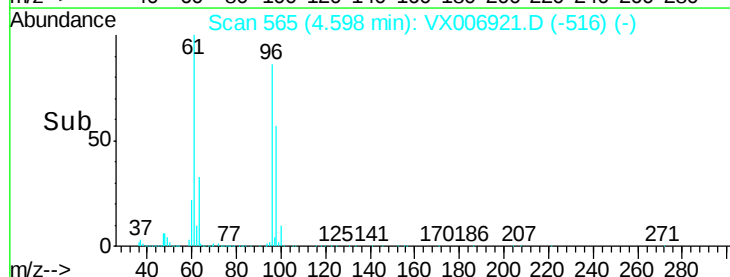
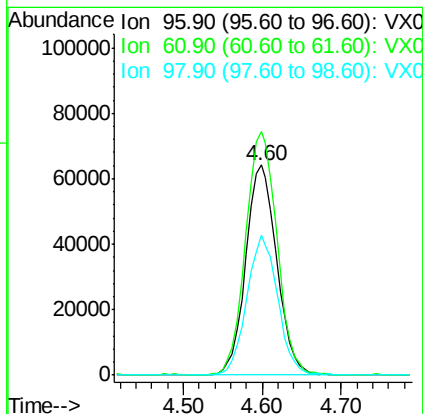
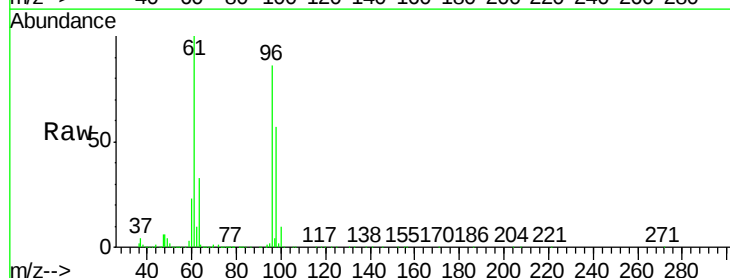
Tgt Ion: 96 Resp: 175540

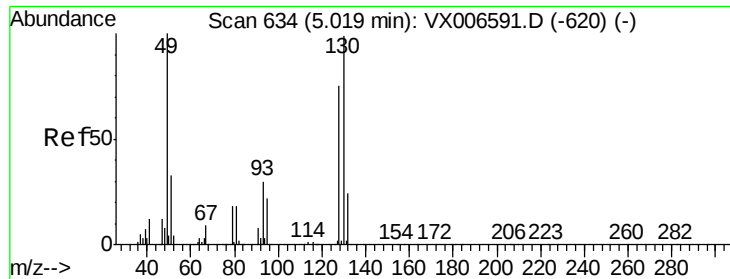
Ion Ratio Lower Upper

96 100

61 117.5 0.0 258.6

98 66.0 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0648

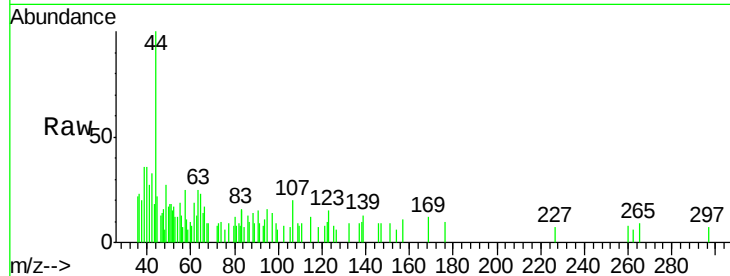
Tot Ion: 49 Resp: 204

Ion Ratio Lower Upper

49 100

129 15.2 0.0 5.4#

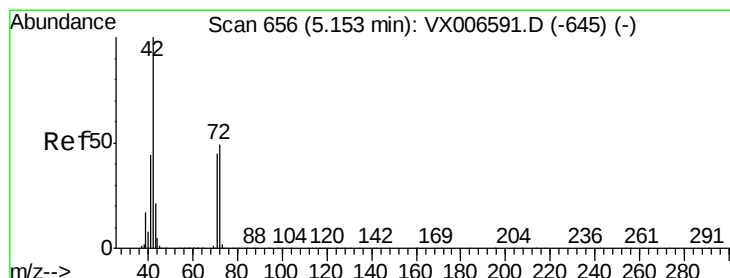
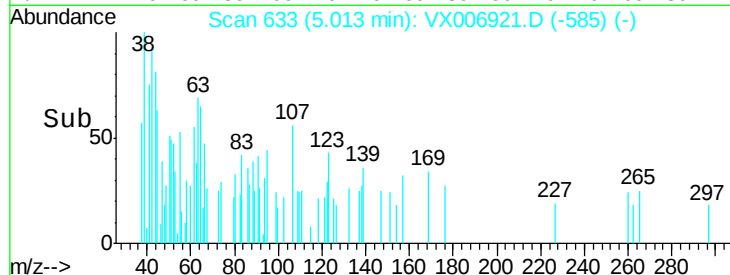
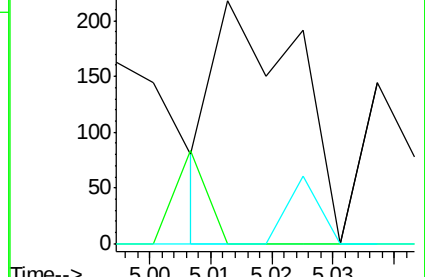
130 10.8 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.553 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

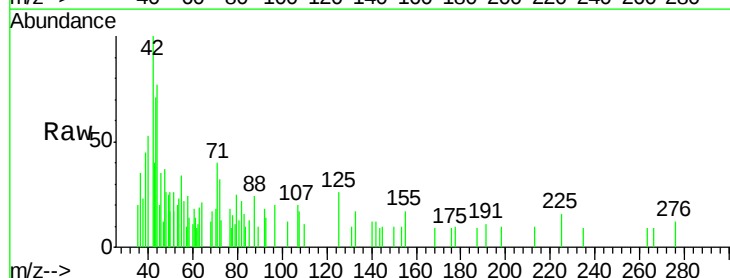
Tgt Ion: 42 Resp: 1627

Ion Ratio Lower Upper

42 100

72 12.7 38.9 58.3#

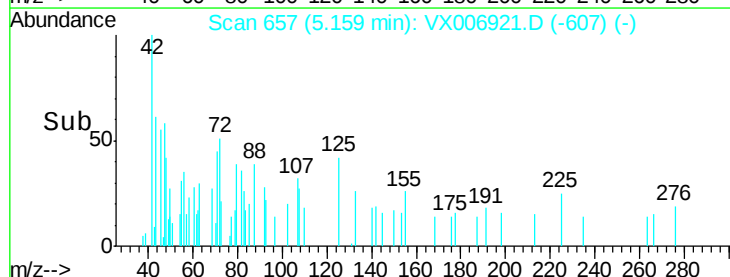
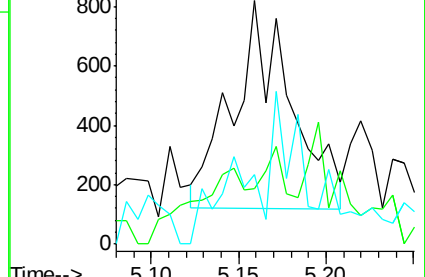
71 22.4 36.2 54.4#

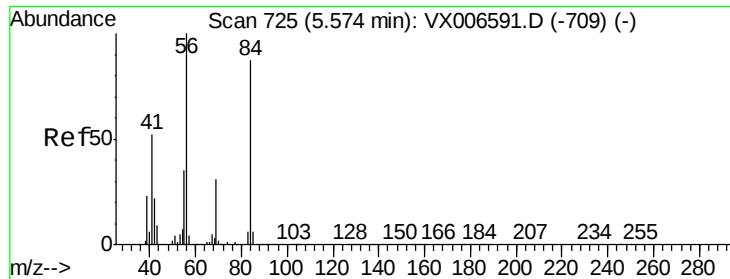


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

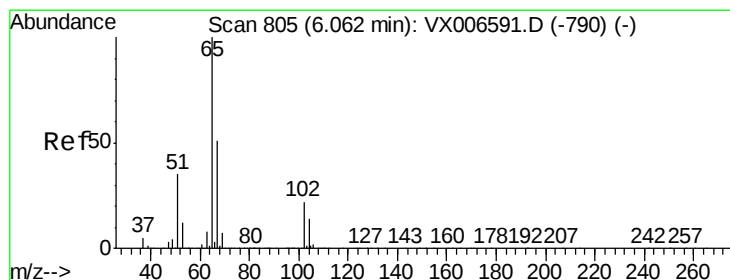
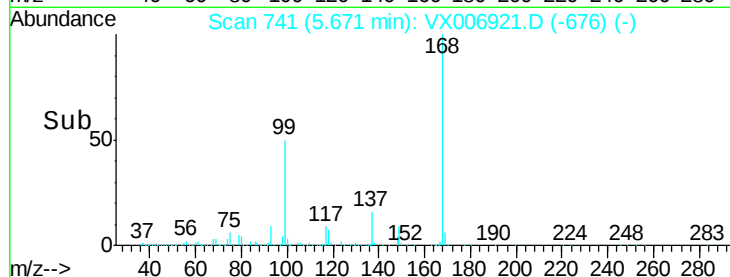
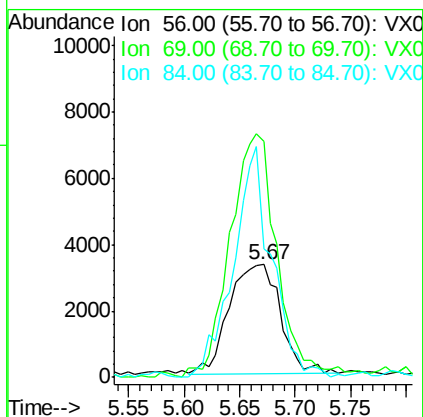
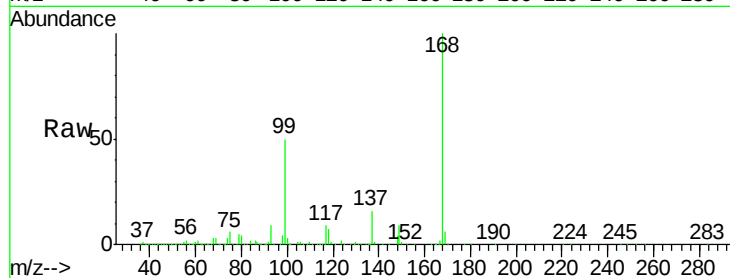




#31
Cyclohexane
Concen: 1.103 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

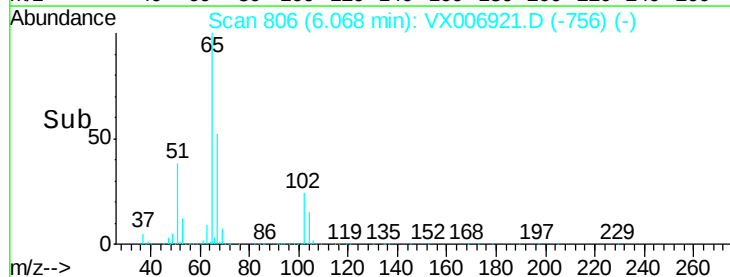
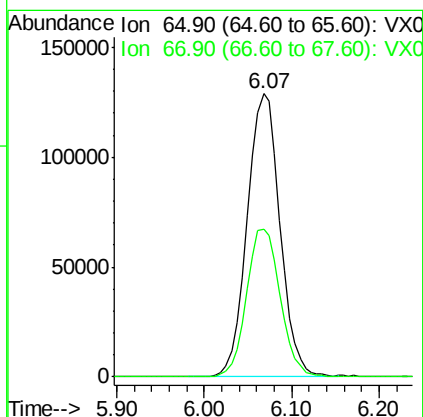
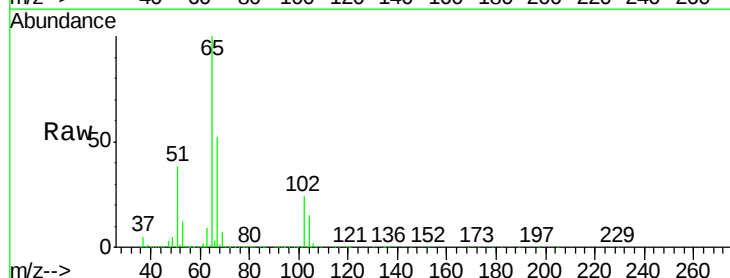
Instrument :
MSVOA_X
ClientSampleId :
S32-0648

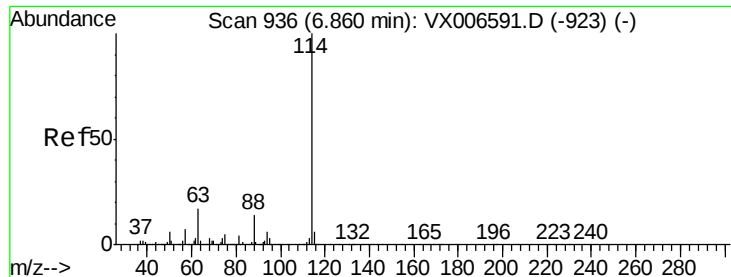
Tot Ion: 56 Resp: 10562
Ion Ratio Lower Upper
56 100
69 208.6 24.4 36.6#
84 118.1 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.517 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Tgt Ion: 65 Resp: 335653
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0648

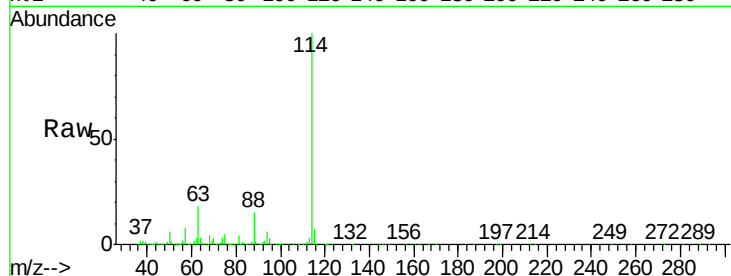
Tot Ion:114 Resp: 980042

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.8

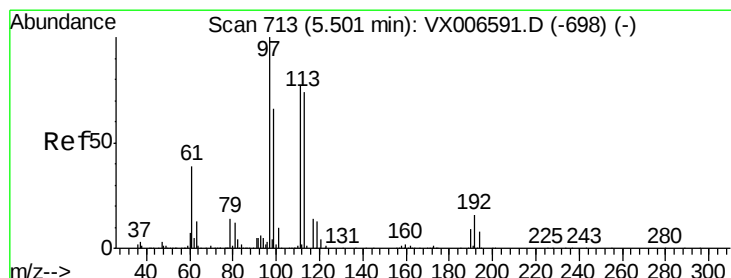
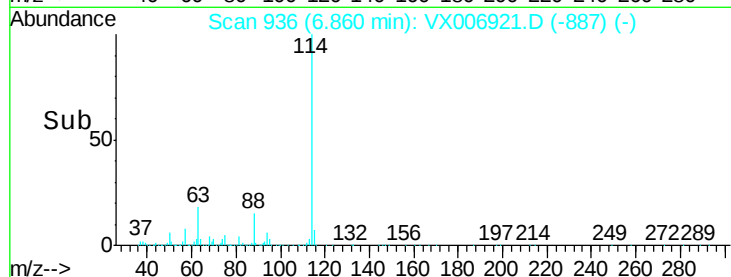
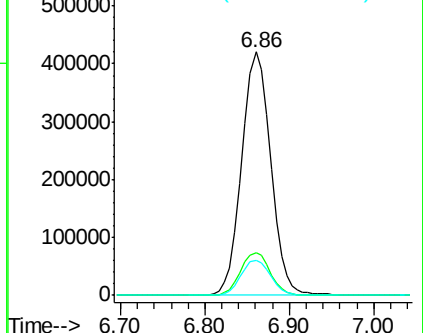
88 14.5 0.0 28.8



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: 48.889 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

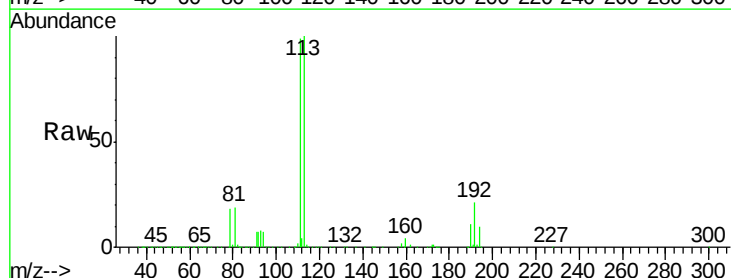
Tgt Ion:113 Resp: 302994

Ion Ratio Lower Upper

113 100

111 99.9 81.6 122.4

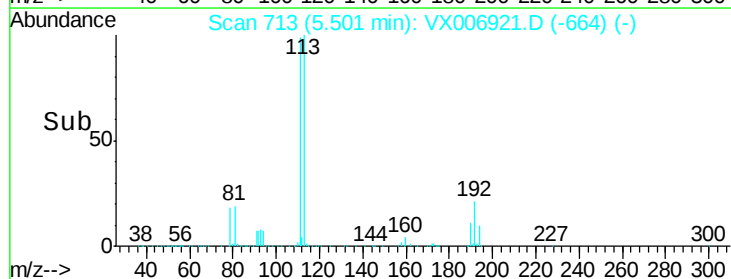
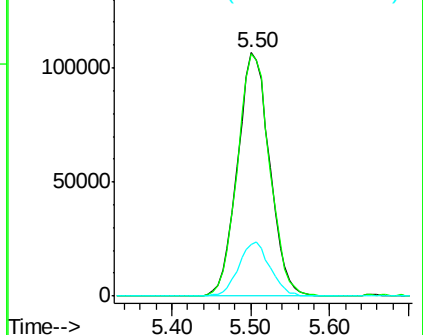
192 21.8 16.7 25.1

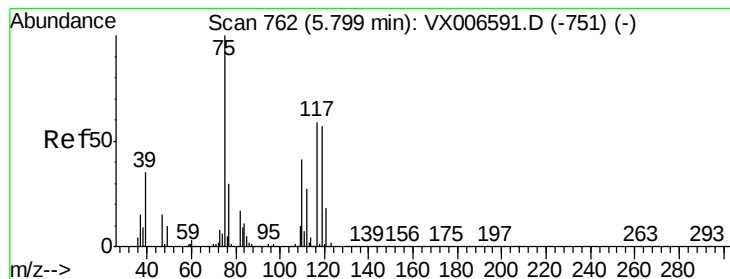


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.051 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0648

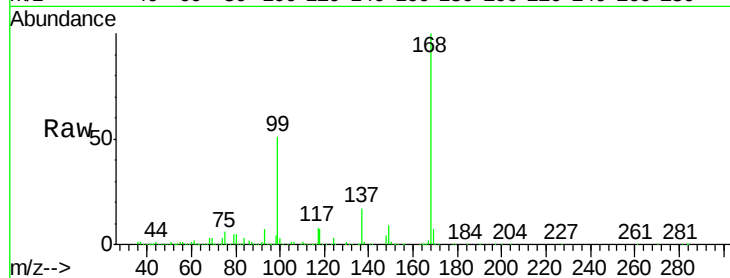
Tot Ion: 75 Resp: 40999

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

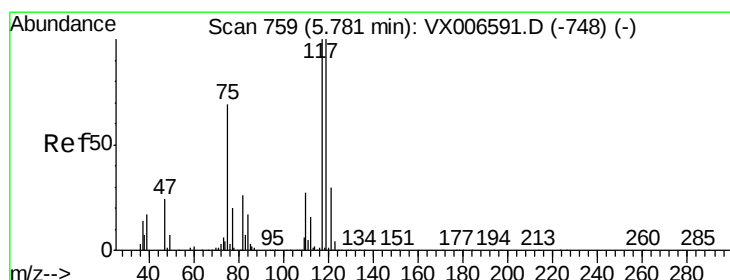
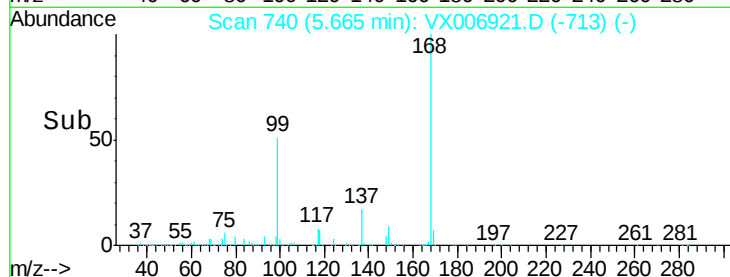
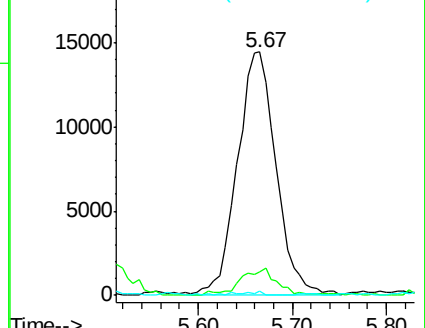
77 0.5 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.406 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

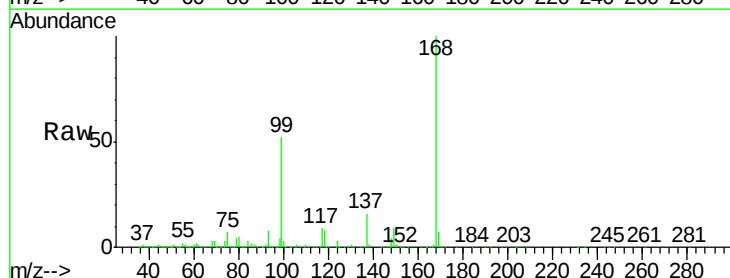
Tgt Ion: 117 Resp: 58425

Ion Ratio Lower Upper

117 100

119 4.0 79.4 119.2#

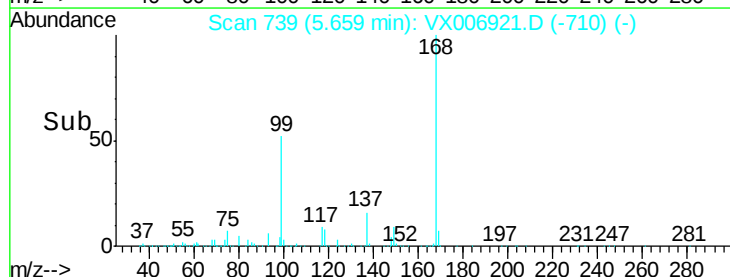
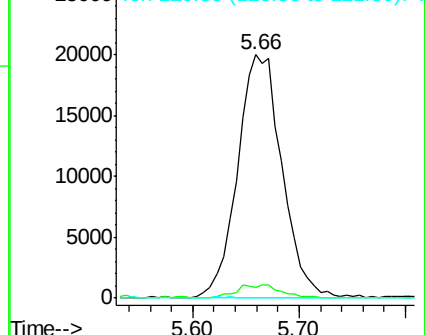
121 0.0 24.0 36.0#

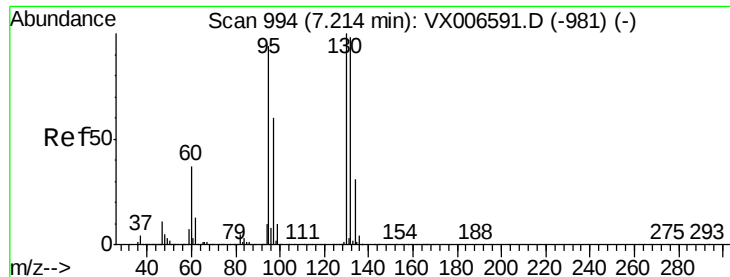


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 5.114 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

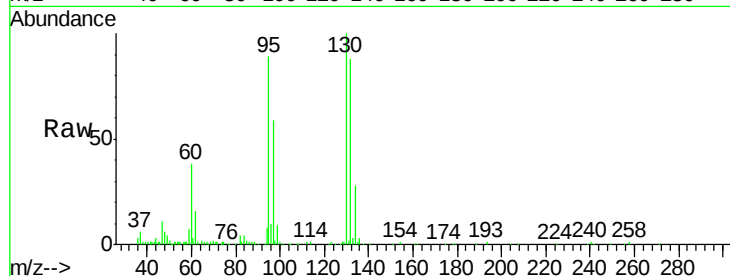
S32-0648

Tot Ion:130 Resp: 38192

Ion Ratio Lower Upper

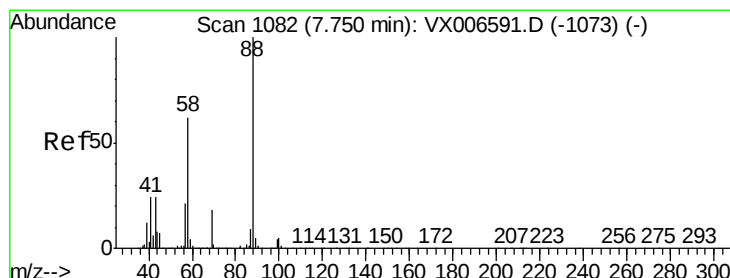
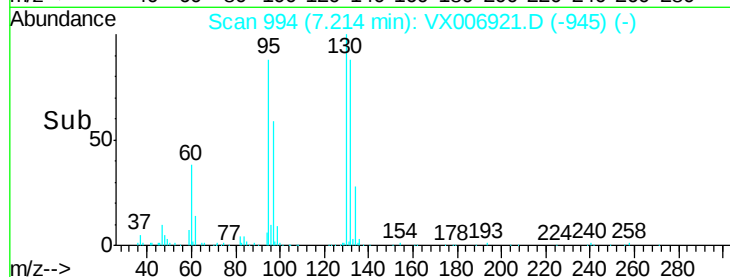
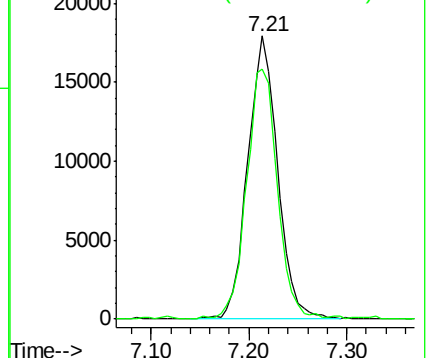
130 100

95 88.6 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

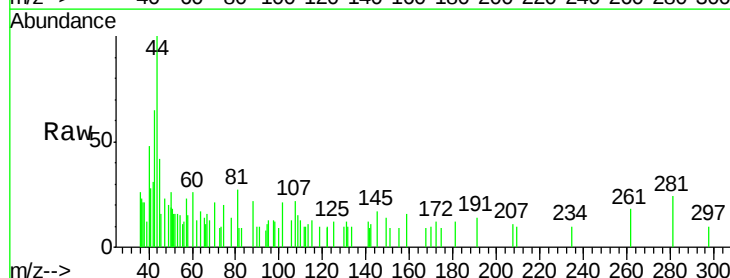
Tgt Ion: 88 Resp: 206

Ion Ratio Lower Upper

88 100

43 116.5 22.2 33.4#

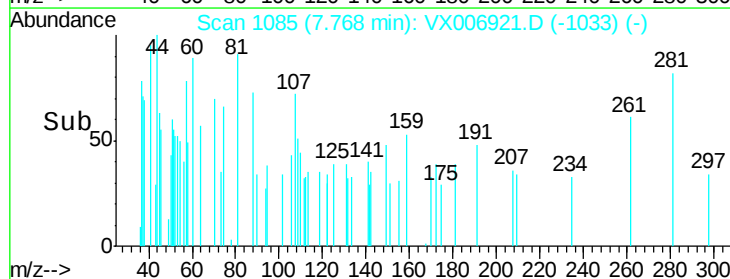
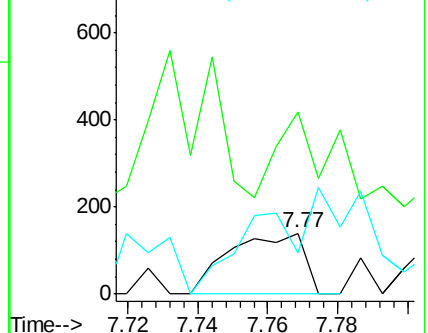
58 91.7 51.0 76.4#

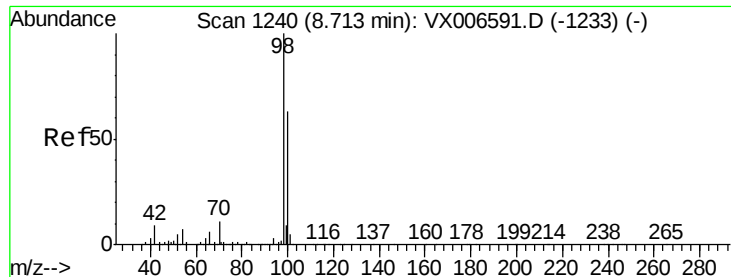


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.808 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

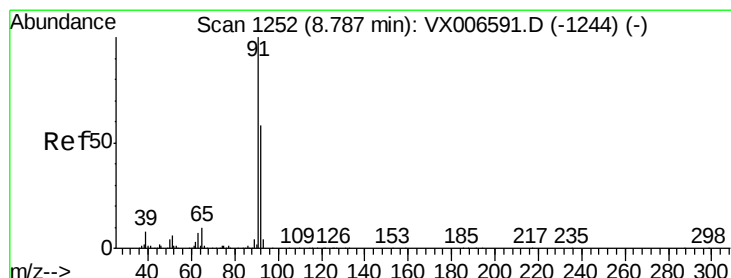
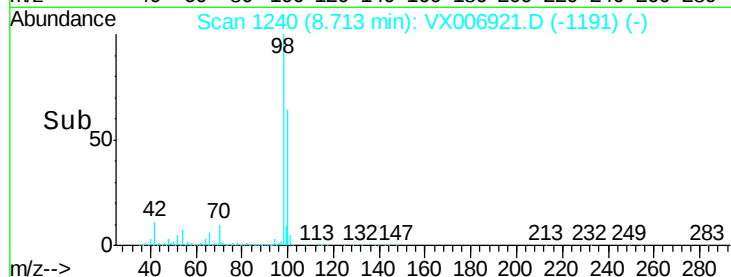
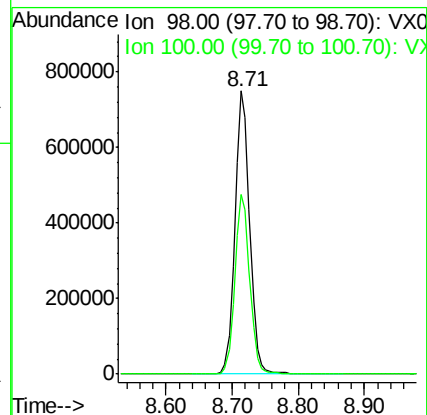
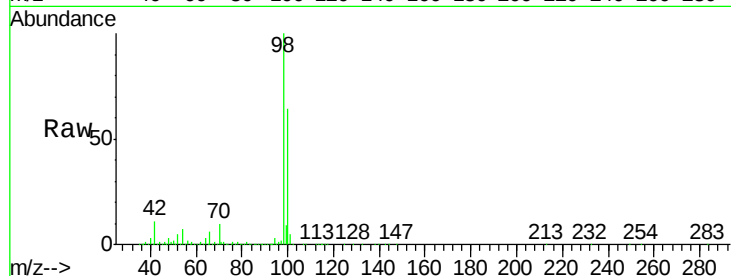
S32-0648

Tot Ion: 98 Resp: 1163769

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#52

Toluene

Concen: 0.314 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006921.D

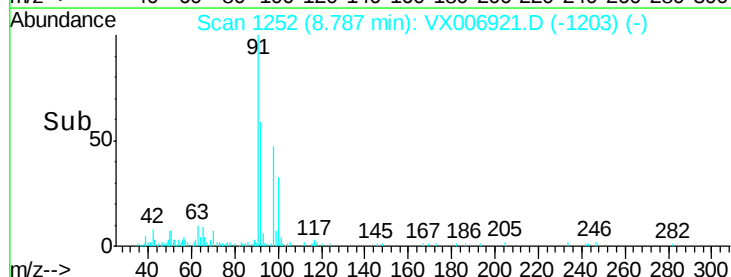
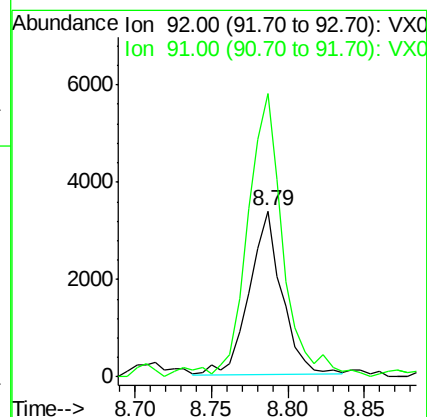
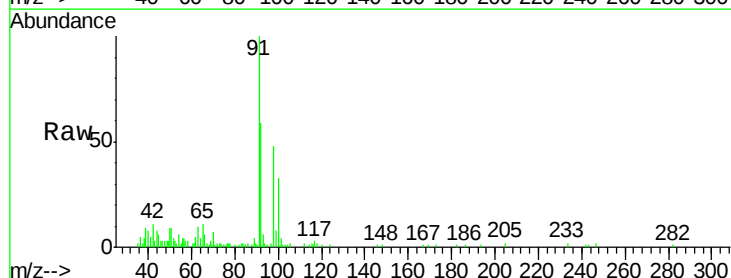
Acq: 04 Jan 2019 18:44

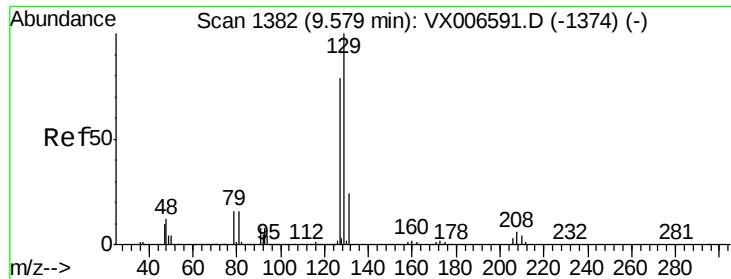
Tgt Ion: 92 Resp: 5008

Ion Ratio Lower Upper

92 100

91 184.7 137.6 206.4





#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.62 min Scan# 1389

Delta R.T. 0.04 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

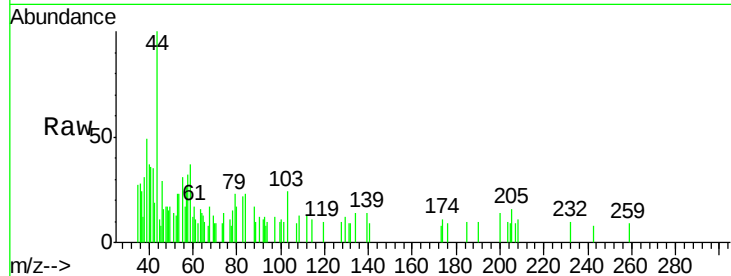
S32-0648

Tot Ion:129 Resp: 50

Ion Ratio Lower Upper

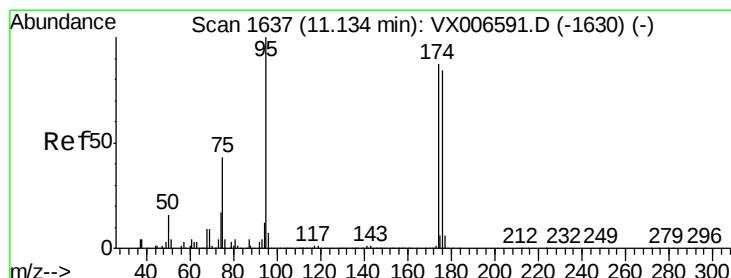
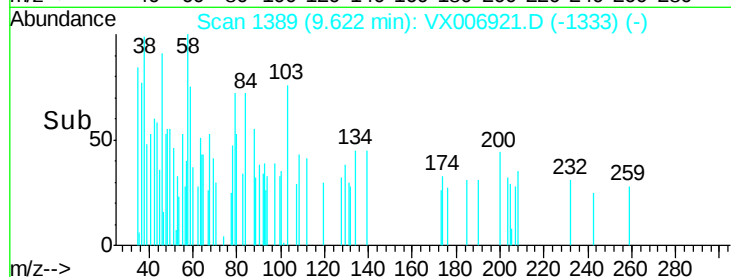
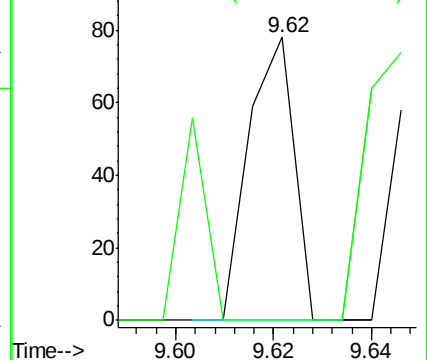
129 100

127 40.0 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.138 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

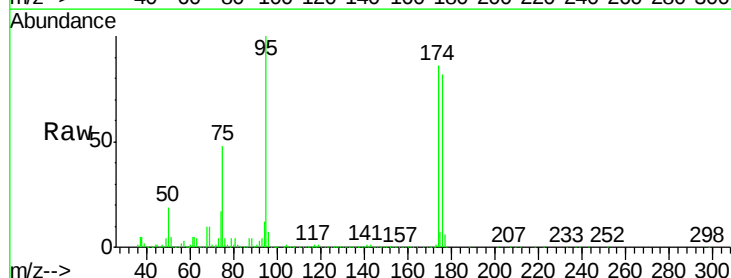
Tgt Ion: 95 Resp: 411932

Ion Ratio Lower Upper

95 100

174 93.1 0.0 182.2

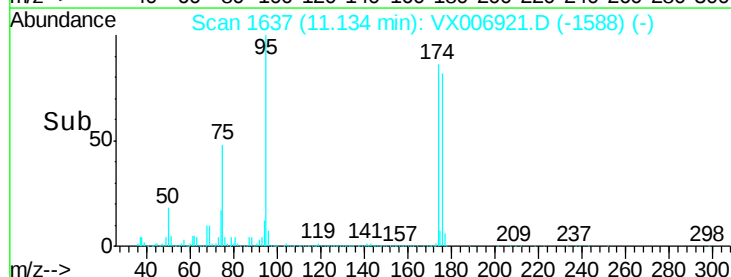
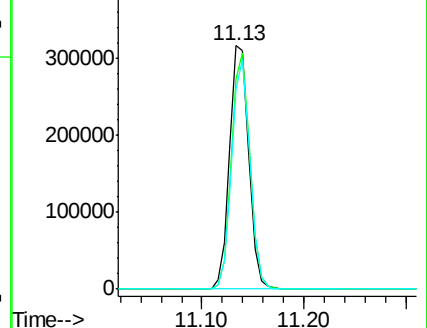
176 89.3 0.0 178.8

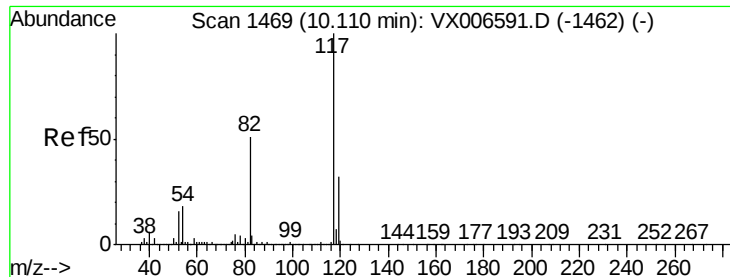


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

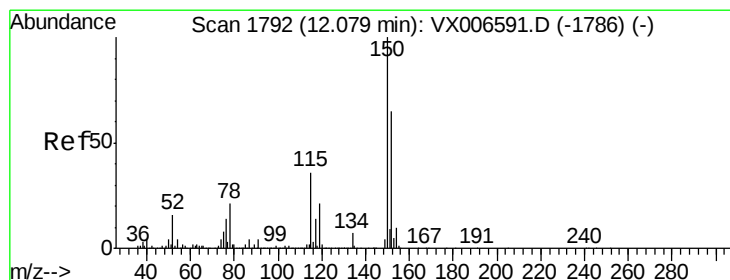
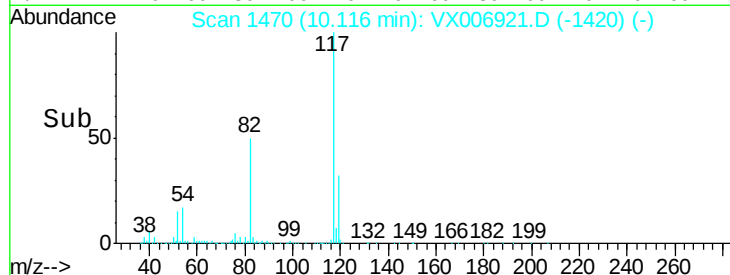
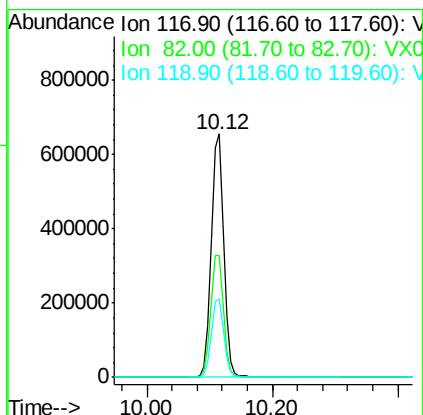
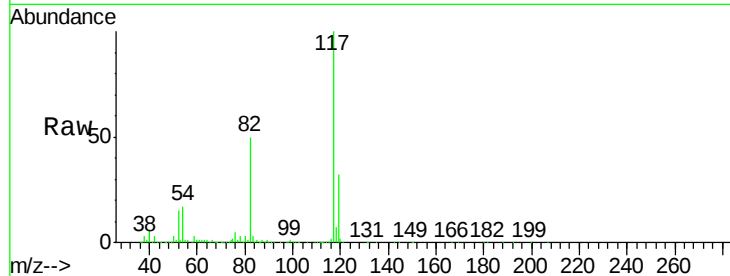




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

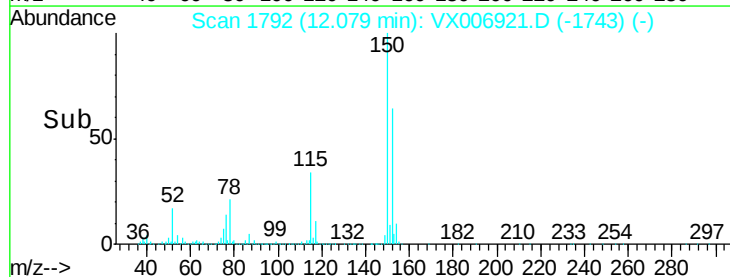
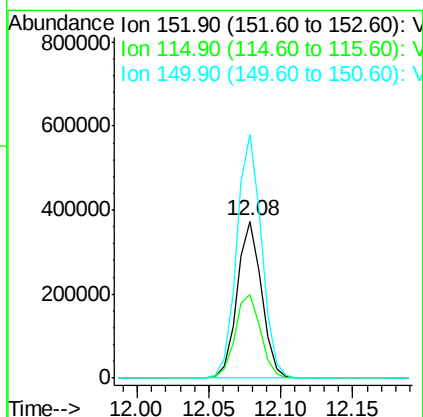
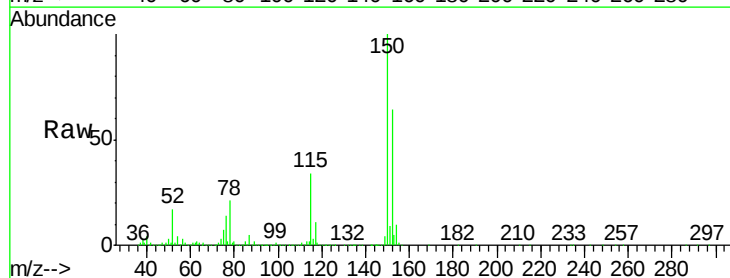
Instrument :
MSVOA_X
ClientSampled :
S32-0648

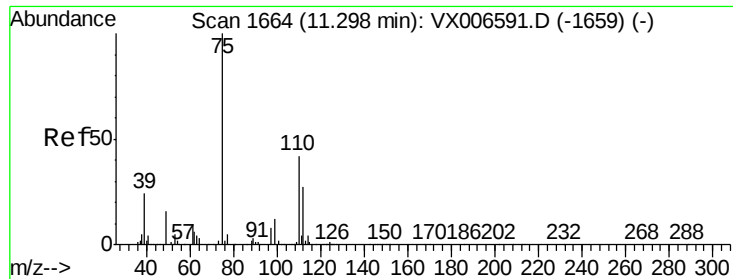
Tot Ion:117 Resp: 907624
Ion Ratio Lower Upper
117 100
82 50.0 41.0 61.6
119 32.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Tgt Ion:152 Resp: 439404
Ion Ratio Lower Upper
152 100
115 56.1 39.1 117.2
150 158.5 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 23.981 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

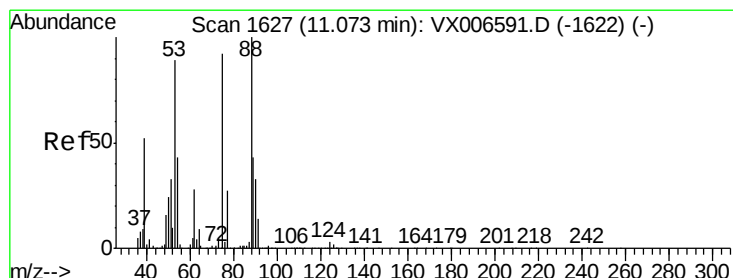
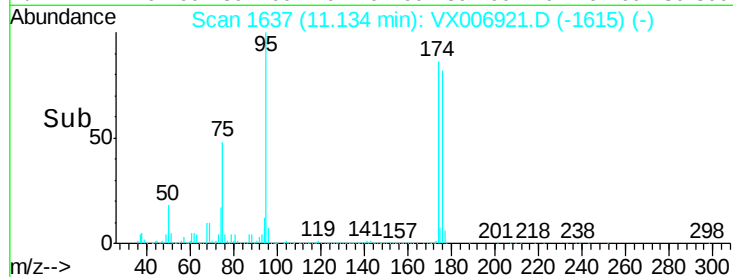
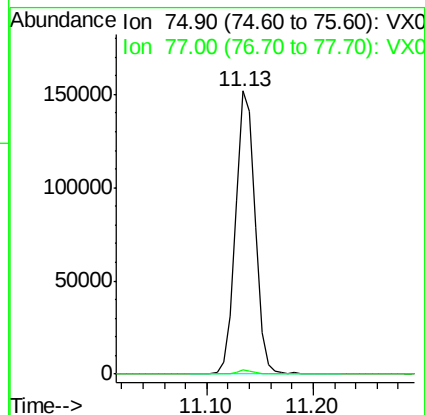
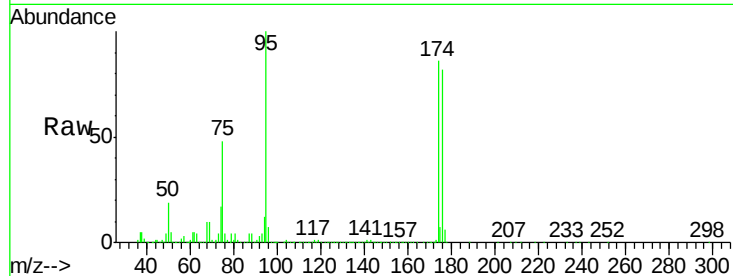
S32-0648

Tot Ion: 75 Resp: 195826

Ion Ratio Lower Upper

75 100

77 1.6 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.035 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006921.D

Acq: 04 Jan 2019 18:44

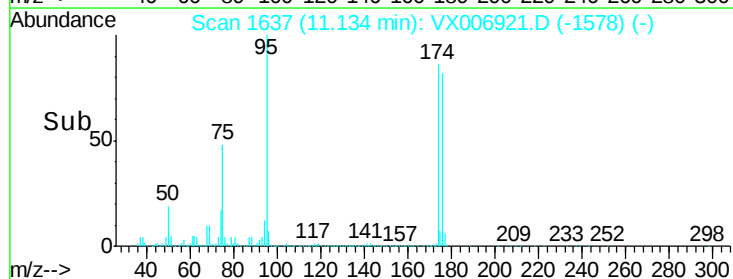
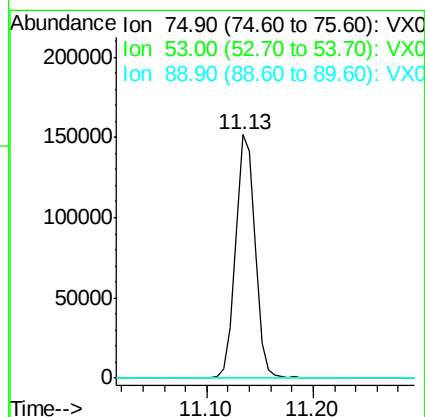
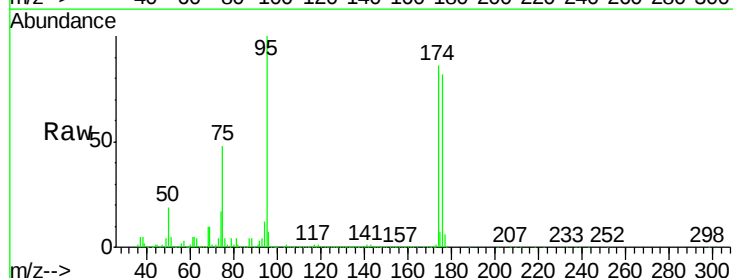
Tgt Ion: 75 Resp: 195826

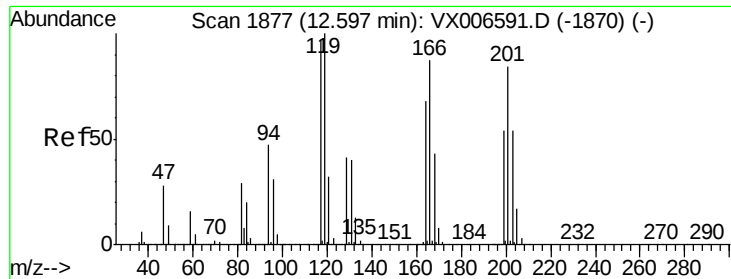
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.1 38.0 57.0#

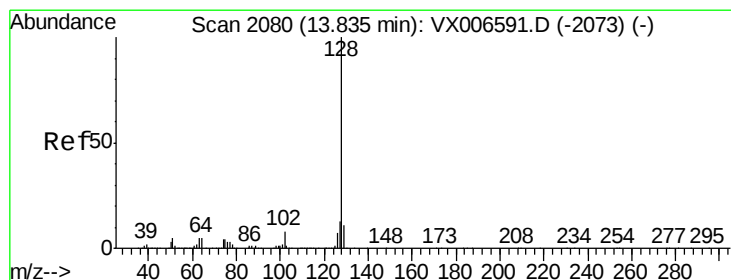
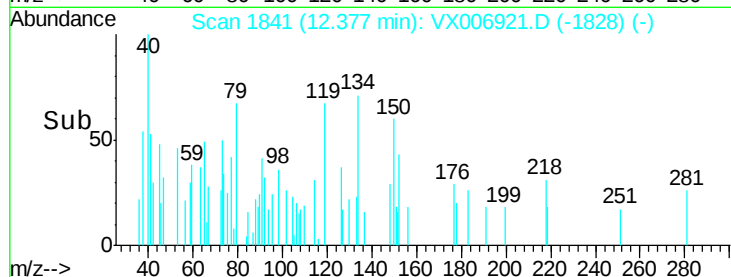
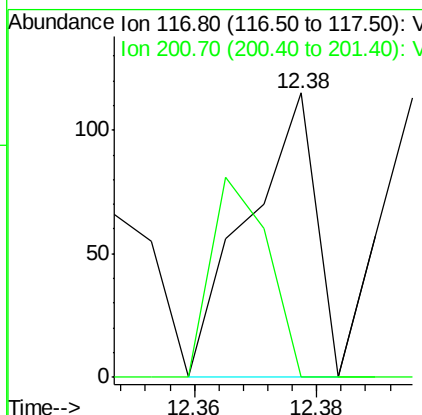
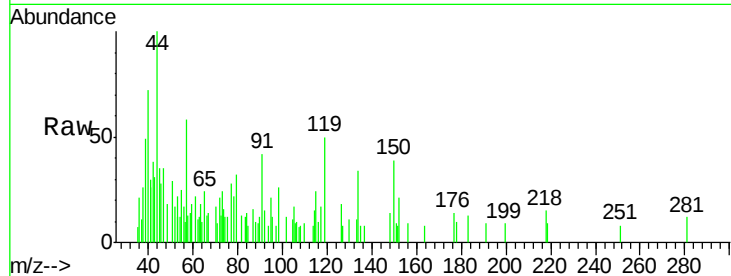




#90
Hexachloroethane
Concen: 3.313 ug/l
RT: 12.38 min Scan# 1841
Delta R.T. -0.22 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Instrument :
MSVOA_X
ClientSampled :
S32-0648

Tot Ion:117 Resp: 88
Ion Ratio Lower Upper
117 100
201 59.1 42.9 128.7



#95
Naphthalene
Concen: 0.686 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006921.D
Acq: 04 Jan 2019 18:44

Tgt Ion:128 Resp: 22126
Ion Ratio Lower Upper
128 100
127 13.9 10.1 15.1
129 12.8 8.6 13.0

