

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070919\
 Data File : VX010757.D
 Acq On : 09 Jul 2019 17:44
 Operator : JC/SP
 Sample : K3691-07DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022RW349-190705DL

Quant Time: Jul 10 02:12:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	212824	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	333857	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	317798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151445	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	105629	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
35) Dibromofluoromethane	5.49	113	100726	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
50) Toluene-d8	8.71	98	401325	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	11.13	95	139399	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	

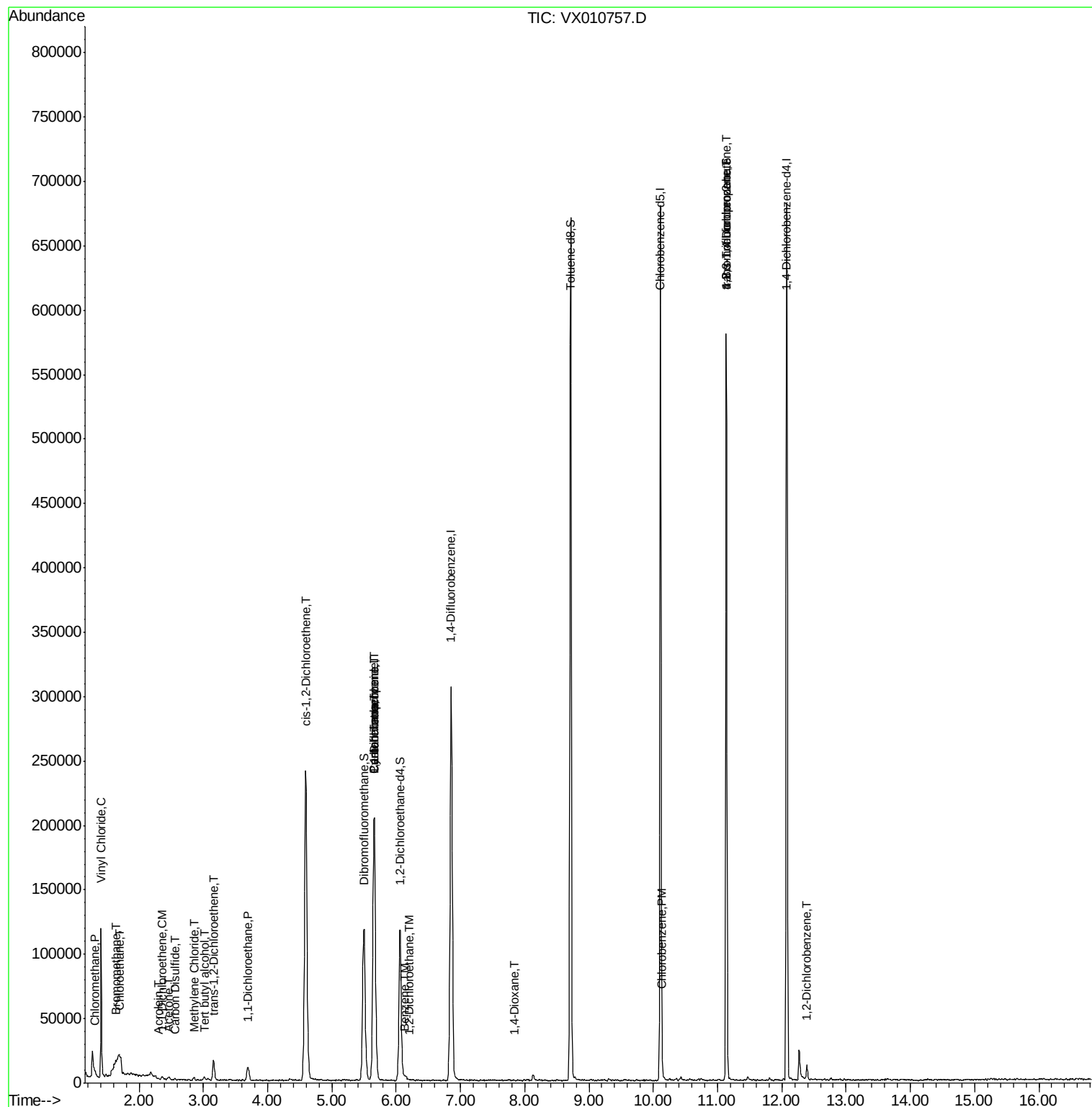
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	481	0.279	ug/l #	45
4) Vinyl Chloride	1.41	62	73200	38.789	ug/l	98
5) Bromomethane	1.64	94	259	0.282	ug/l #	64
6) Chloroethane	1.70	64	2026	1.820	ug/l	94
11) Tert butyl alcohol	3.01	59	1351	2.587	ug/l	96
12) 1,1-Dichloroethene	2.35	96	676	0.366	ug/l	92
13) Acrolein	2.31	56	207	0.598	ug/l	93
16) Acetone	2.45	43	2269	2.269	ug/l	94
17) Carbon Disulfide	2.56	76	1031	0.208	ug/l #	48
20) Methylene Chloride	2.85	84	972	0.472	ug/l #	86
21) trans-1,2-Dichloroethene	3.16	96	6988	3.522	ug/l	97
24) 1,1-Dichloroethane	3.69	63	12159	3.842	ug/l #	96
27) cis-1,2-Dichloroethene	4.59	96	167077	72.874	ug/l	92
31) Cyclohexane	5.65	56	4054	1.407	ug/l #	38
36) 1,1-Dichloropropene	5.65	75	13539	5.103	ug/l #	48
38) Carbon Tetrachloride	5.66	117	19596	6.821	ug/l #	14
40) Benzene	6.14	78	3575	0.433	ug/l #	90
42) 1,2-Dichloroethane	6.21	62	824	0.328	ug/l	77
49) 1,4-Dioxane	7.84	88	47	0.777	ug/l #	1
65) Chlorobenzene	10.14	112	3815	0.591	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	67692	24.529	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	67692	57.222	ug/l #	16
91) 1,2-Dichlorobenzene	12.39	146	3238	0.651	ug/l	95

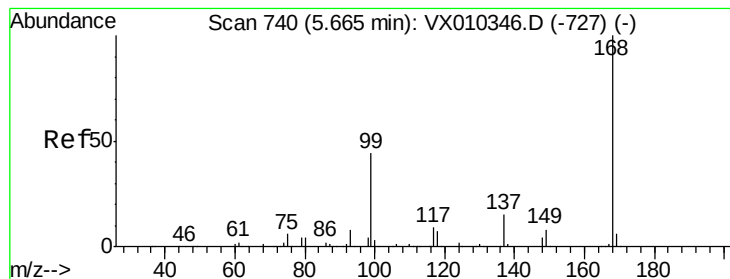
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

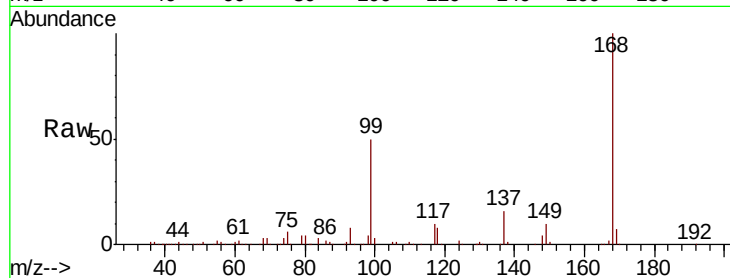
WP022RW349-190705DL

Tot Ion:168 Resp: 212824

Ion Ratio Lower Upper

168 100

99 50.1 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

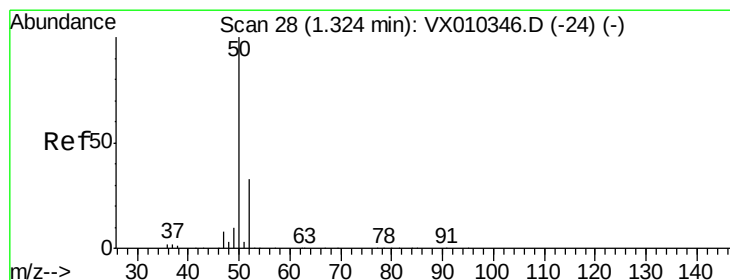
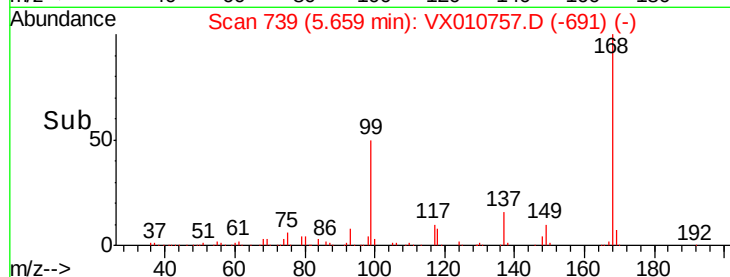
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.279 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX010757.D

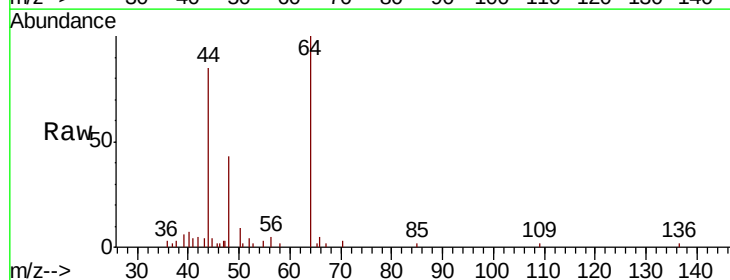
Acq: 09 Jul 2019 17:44

Tgt Ion: 50 Resp: 481

Ion Ratio Lower Upper

50 100

52 64.3 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

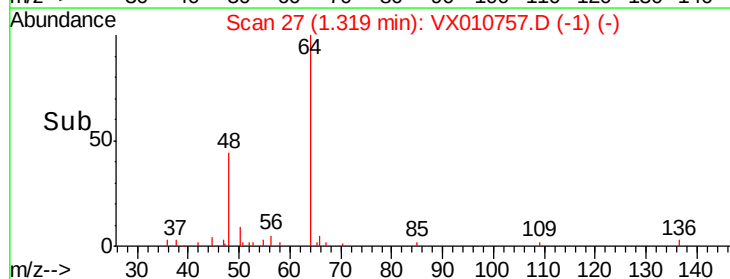
150

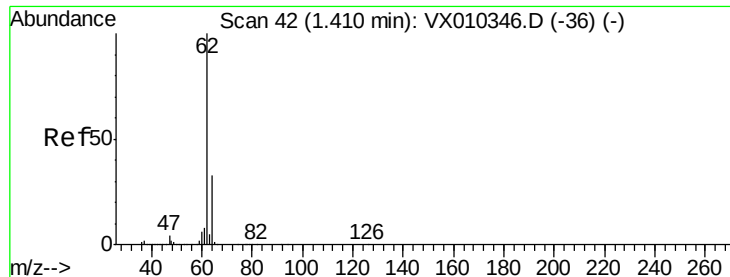
100

50

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 38.789 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

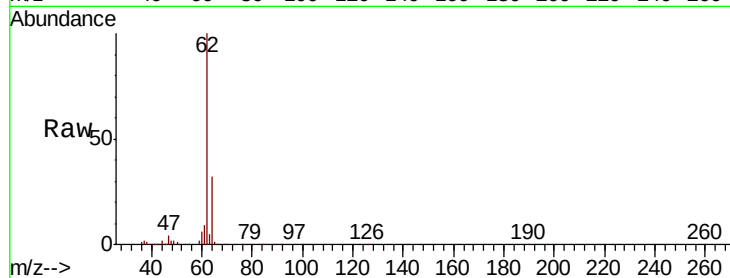
WP022RW349-190705DL

Tot Ion: 62 Resp: 73200

Ion Ratio Lower Upper

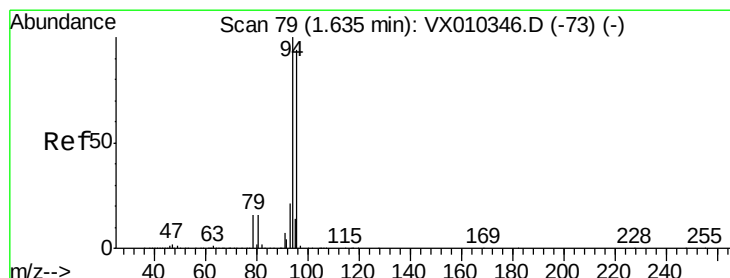
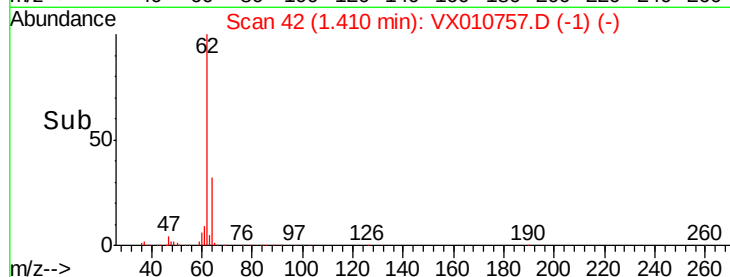
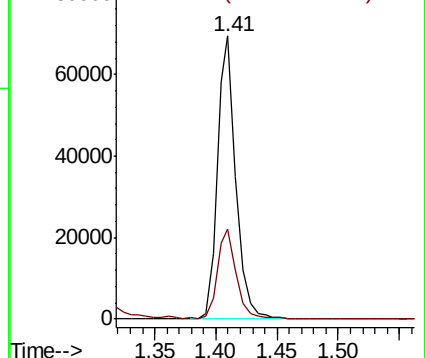
62 100

64 31.5 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.282 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX010757.D

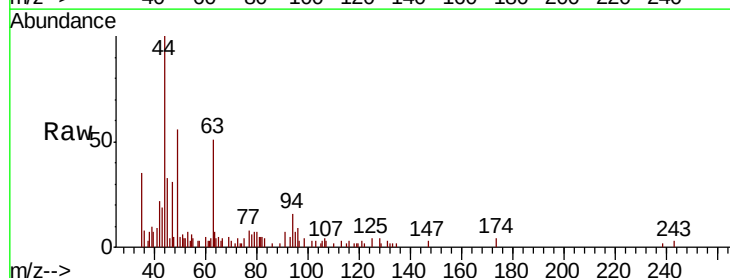
Acq: 09 Jul 2019 17:44

Tgt Ion: 94 Resp: 259

Ion Ratio Lower Upper

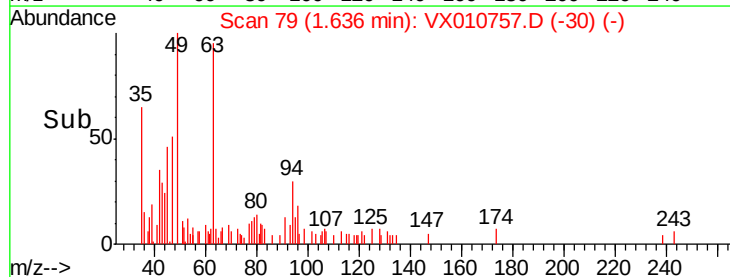
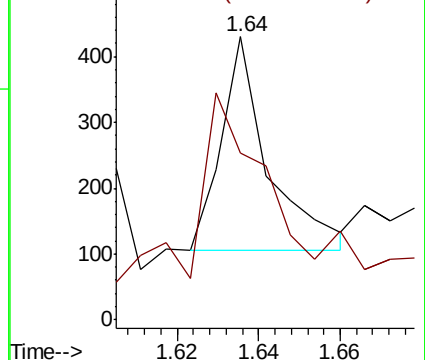
94 100

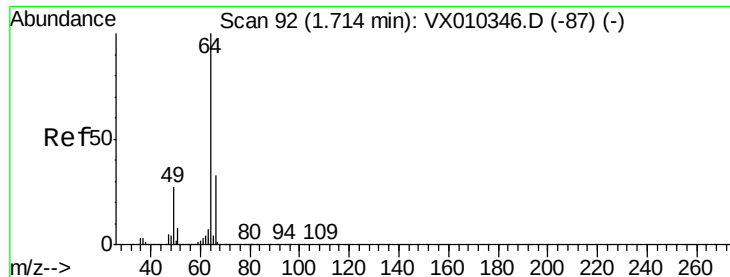
96 59.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.820 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

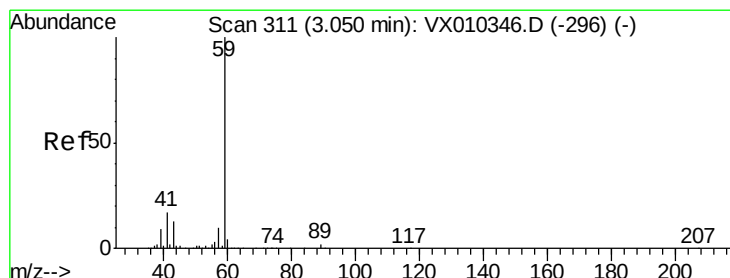
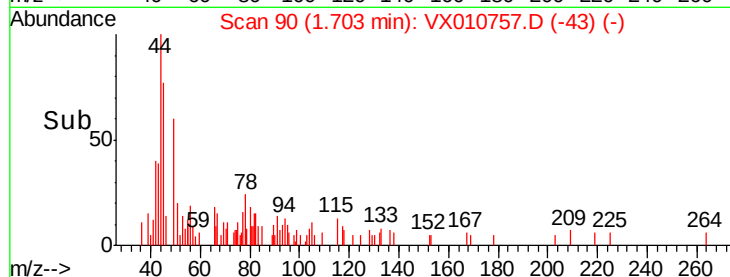
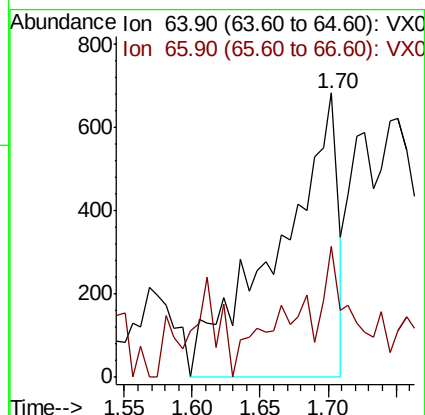
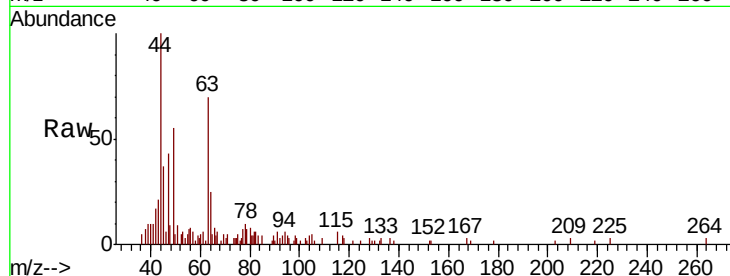
WP022RW349-190705DL

Tot Ion: 64 Resp: 2026

Ion Ratio Lower Upper

64 100

66 29.8 26.6 40.0



#11

Tert butyl alcohol

Concen: 2.587 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010757.D

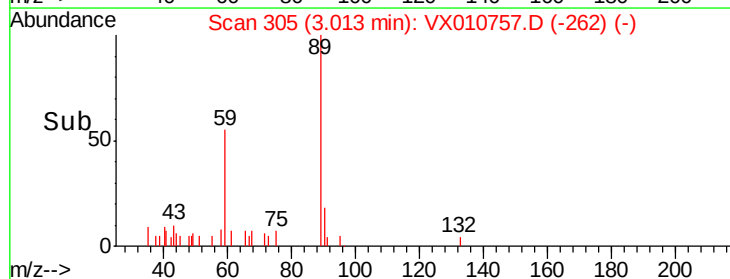
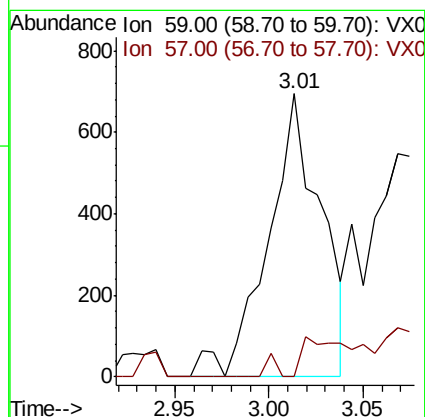
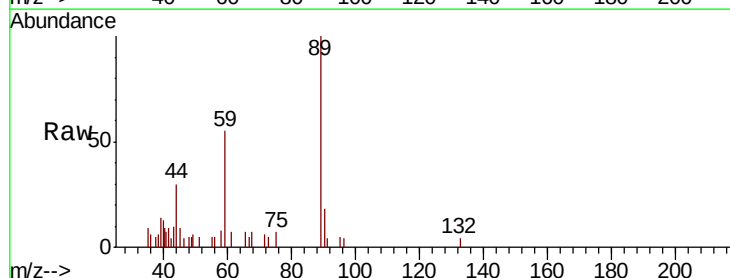
Acq: 09 Jul 2019 17:44

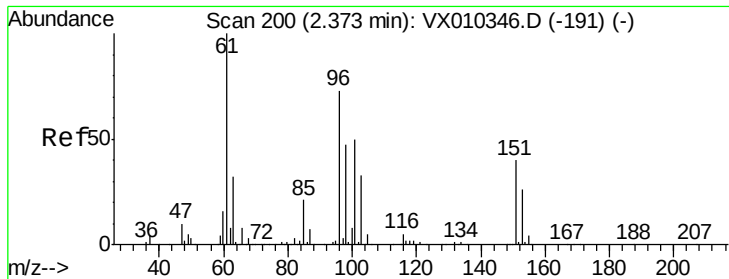
Tgt Ion: 59 Resp: 1351

Ion Ratio Lower Upper

59 100

57 11.1 7.7 11.5

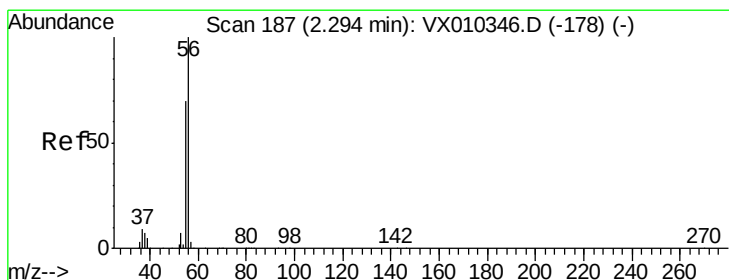
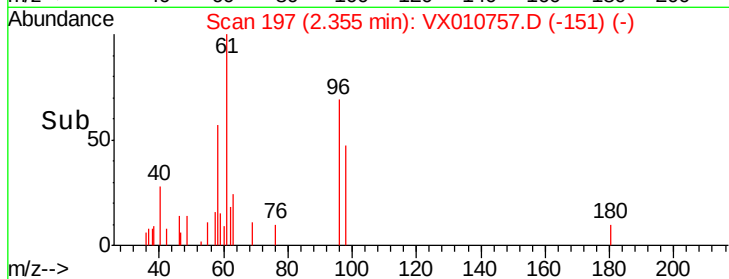
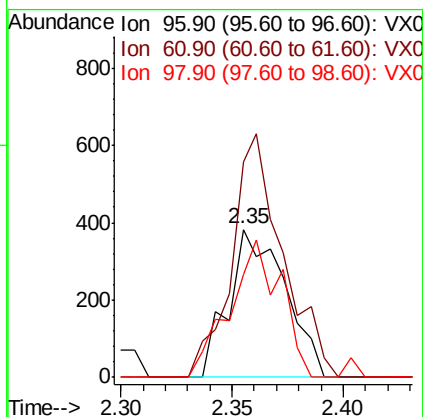
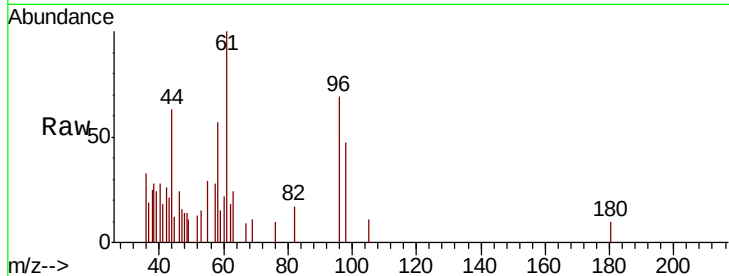




#12
 1,1-Dichloroethene
 Concen: 0.366 ug/l
 RT: 2.35 min Scan# 197
 Delta R.T. -0.02 min
 Lab File: VX010757.D
 Acq: 09 Jul 2019 17:44

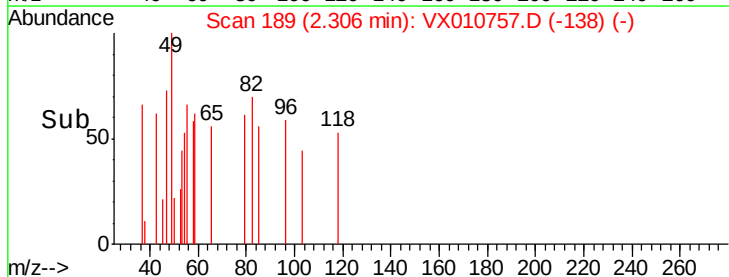
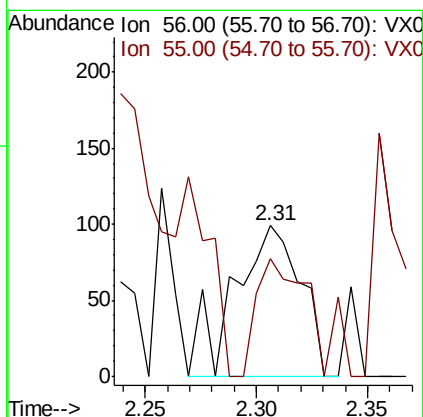
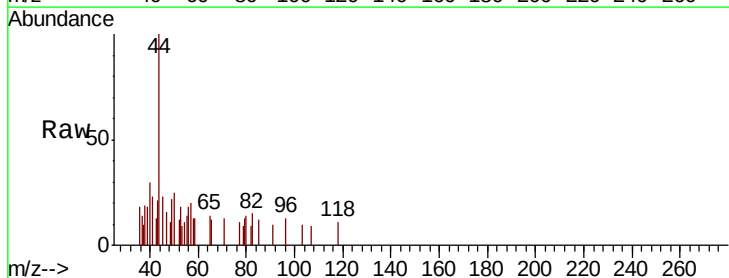
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022RW349-190705DL

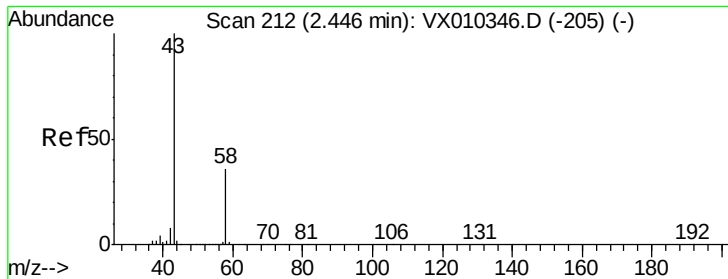
Tot Ion	Ratio	Lower	Upper
96	100		
61	146.0	109.2	163.8
98	69.2	51.1	76.7



#13
 Acrolein
 Concen: 0.598 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX010757.D
 Acq: 09 Jul 2019 17:44

Tgt Ion	Ratio	Lower	Upper
56	100		
55	65.2	56.9	85.3





#16

Acetone

Concen: 2.269 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

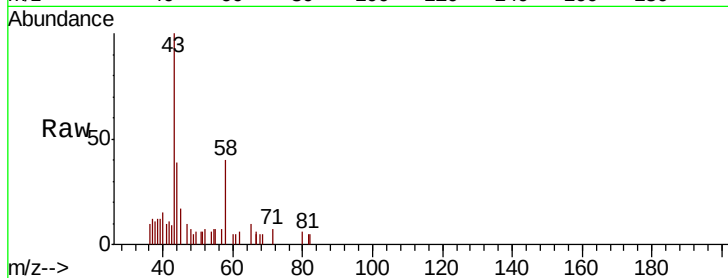
WP022RW349-190705DL

Tot Ion: 43 Resp: 2269

Ion Ratio Lower Upper

43 100

58 39.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

1200

1000

800

600

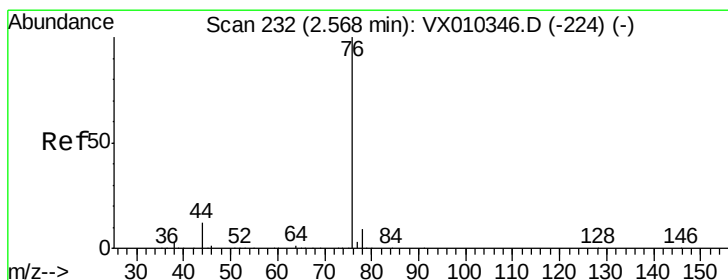
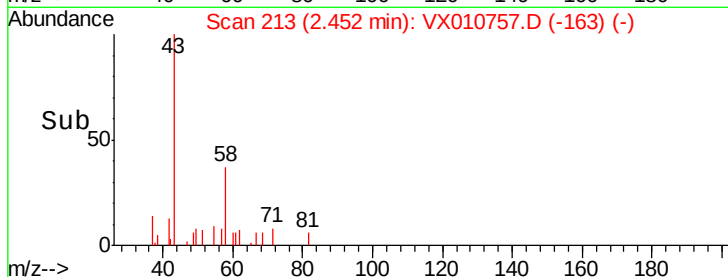
400

200

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX010757.D

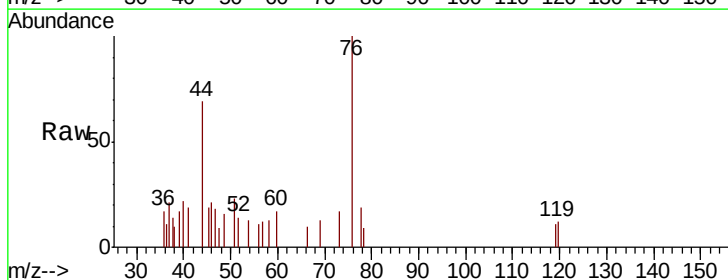
Acq: 09 Jul 2019 17:44

Tgt Ion: 76 Resp: 1031

Ion Ratio Lower Upper

76 100

78 28.1 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

600

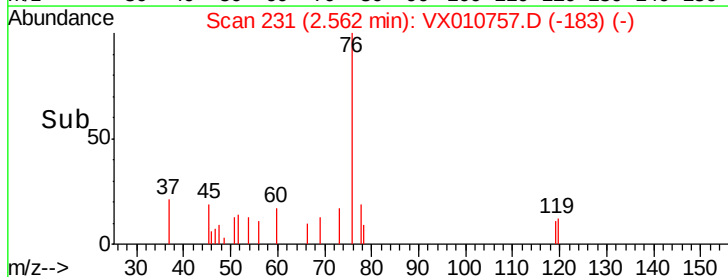
400

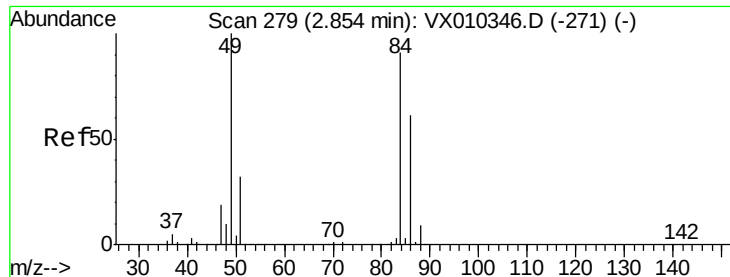
200

0

2.50 2.55 2.60

Time-->

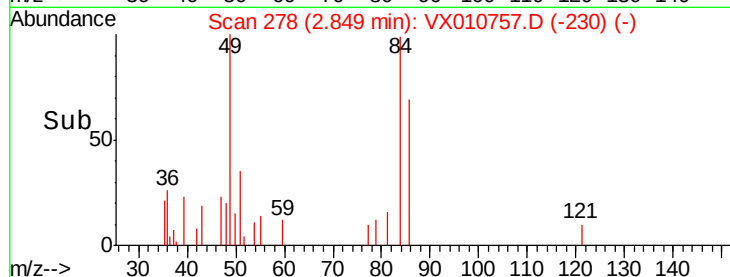
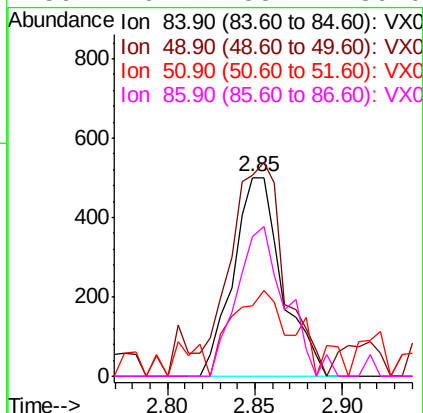
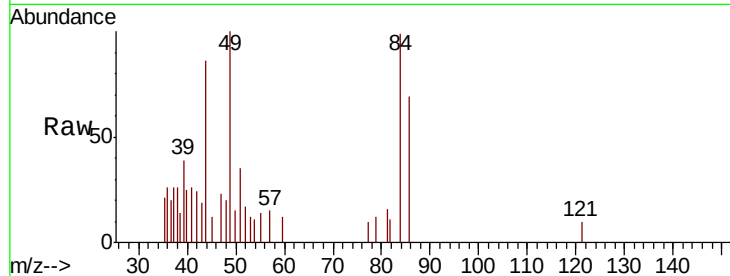




#20
Methylene Chloride
Concen: 0.472 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

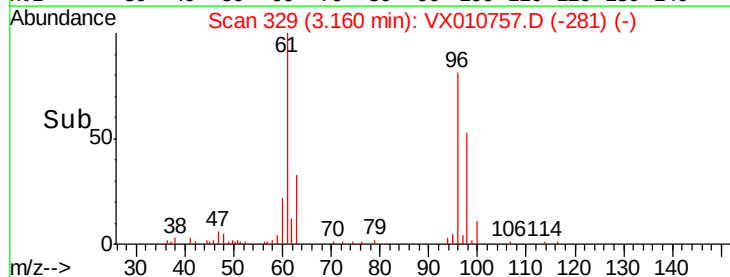
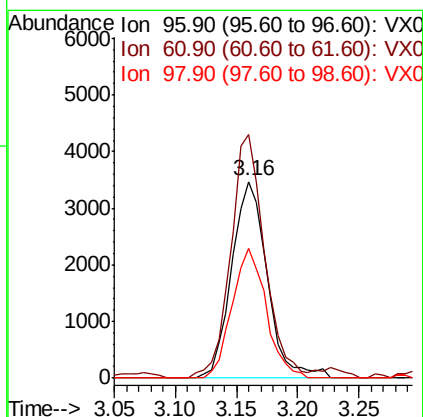
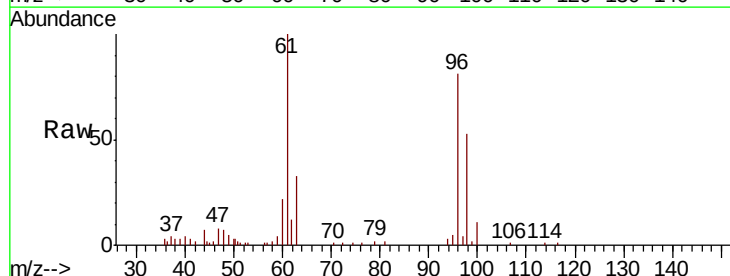
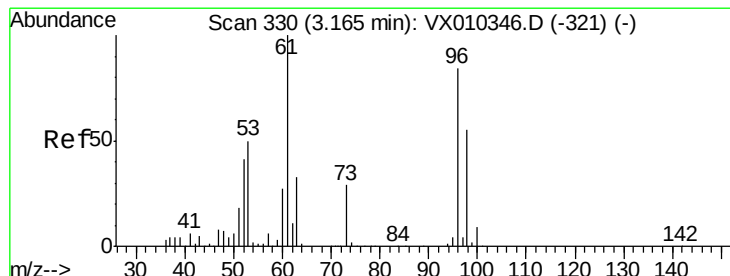
Instrument :
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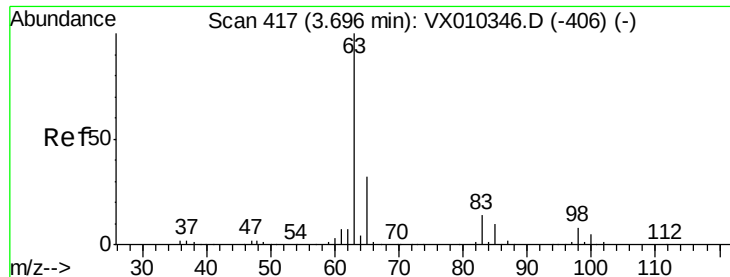
Tot Ion: 84 Resp: 972
Ion Ratio Lower Upper
84 100
49 89.4 87.5 131.3
51 25.1 27.7 41.5#
86 70.1 53.4 80.0



#21
trans-1,2-Dichloroethene
Concen: 3.522 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Tgt Ion: 96 Resp: 6988
Ion Ratio Lower Upper
96 100
61 123.9 95.6 143.4
98 66.3 52.5 78.7





#24

1,1-Dichloroethane

Concen: 3.842 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

WP022RW349-190705DL

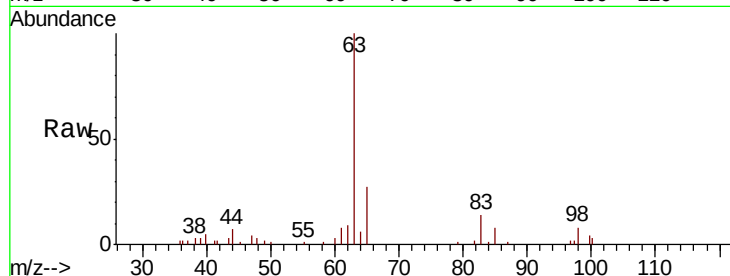
Tot Ion: 63 Resp: 12159

Ion Ratio Lower Upper

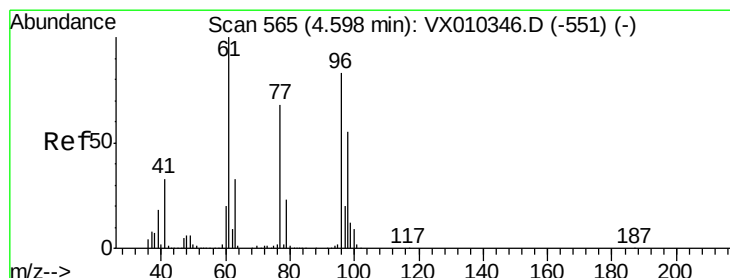
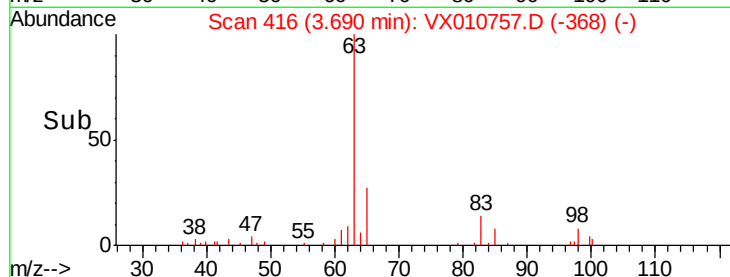
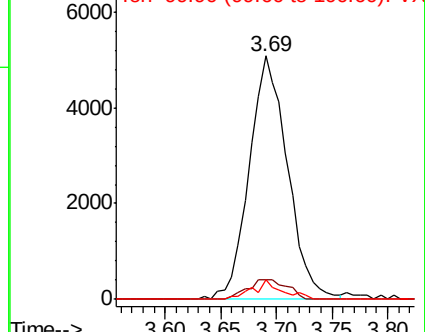
63 100

98 8.0 3.9 11.7

100 7.9 2.4 7.1#



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: 72.874 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

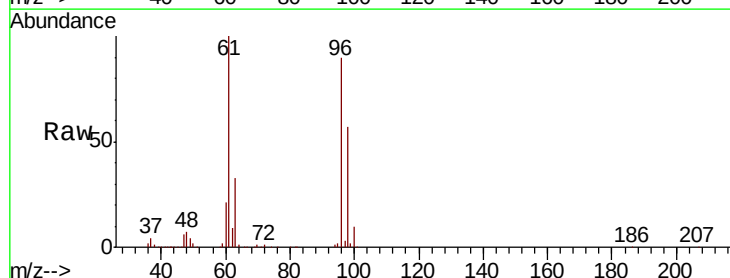
Tgt Ion: 96 Resp: 167077

Ion Ratio Lower Upper

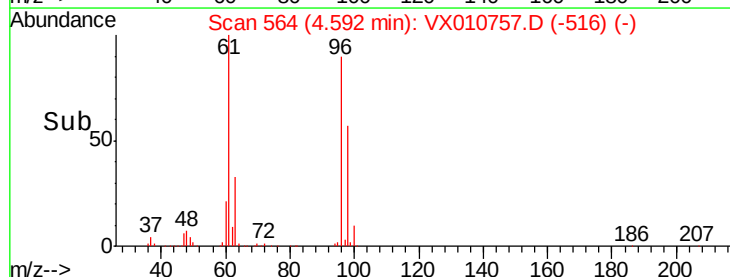
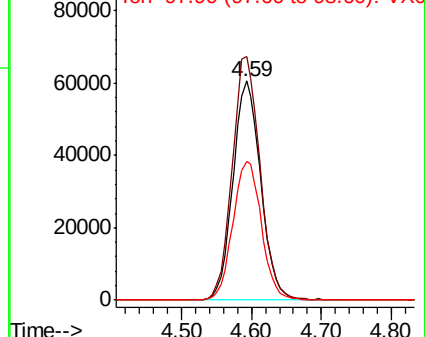
96 100

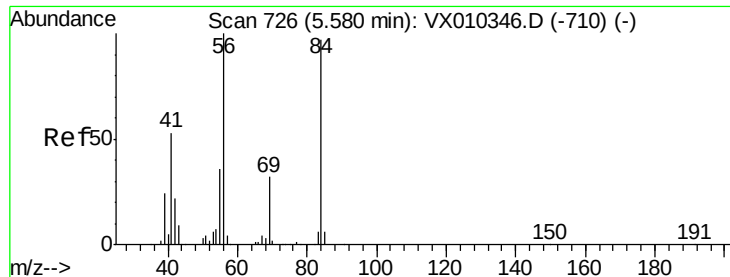
61 111.8 0.0 251.8

98 65.0 0.0 129.4



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

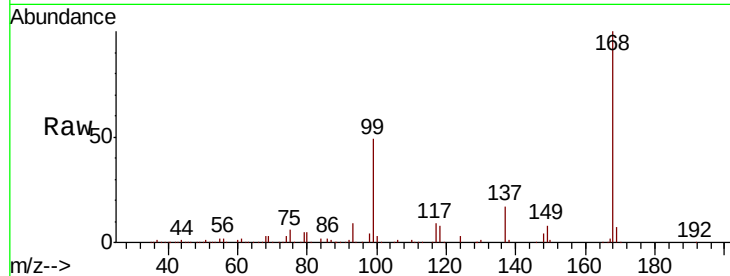




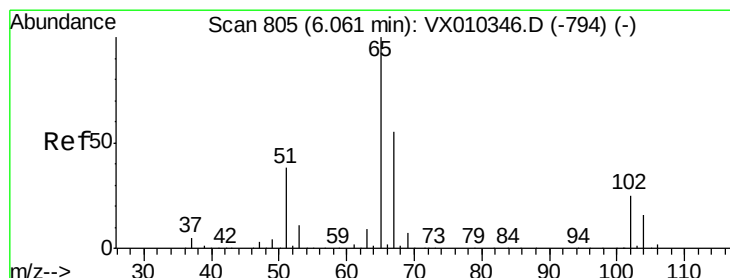
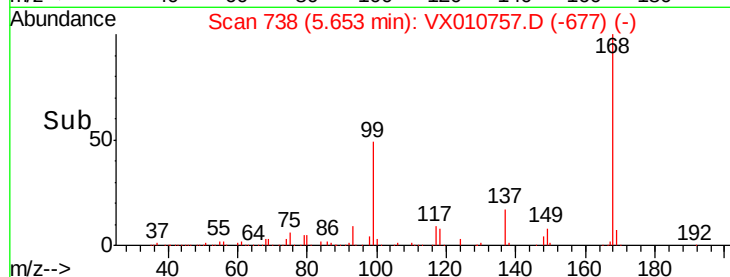
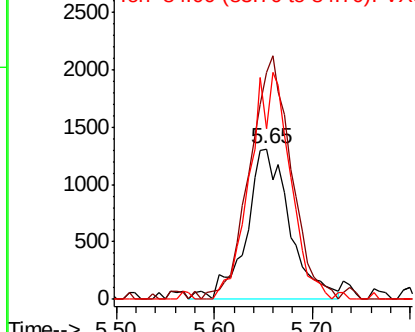
#31
Cyclohexane
Concen: 1.407 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
WP022RW349-190705DL

Tot Ion: 56 Resp: 4054
Ion Ratio Lower Upper
56 100
69 151.4 25.9 38.9#
84 109.5 78.0 117.0

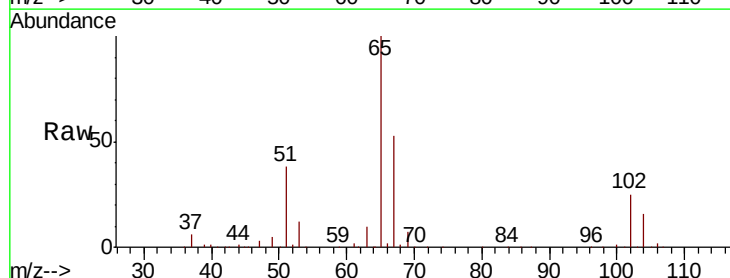


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

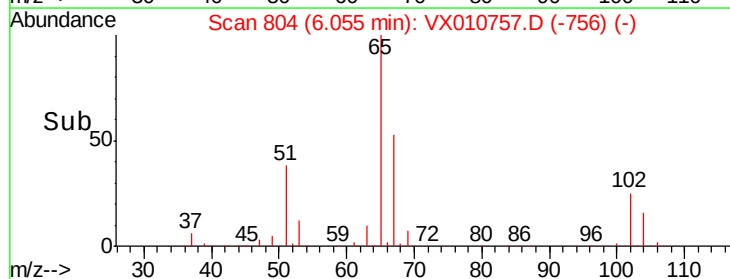
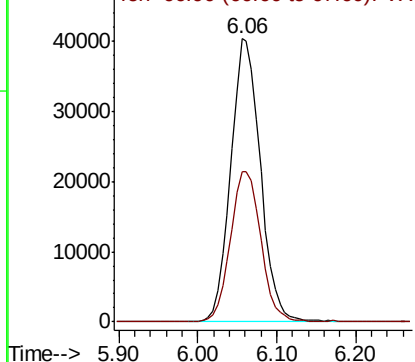


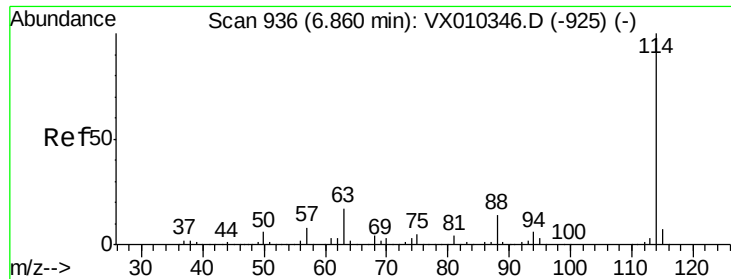
#33
1,2-Dichloroethane-d4
Concen: 52.935 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Tgt Ion: 65 Resp: 105629
Ion Ratio Lower Upper
65 100
67 54.6 0.0 110.2



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

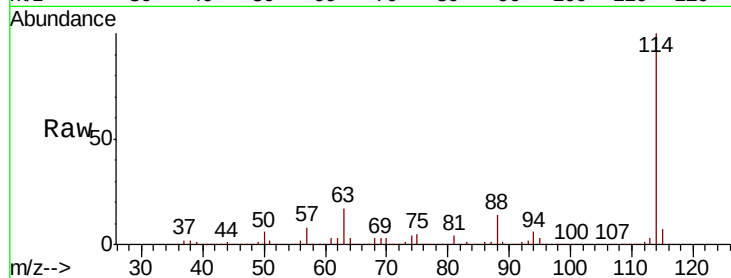




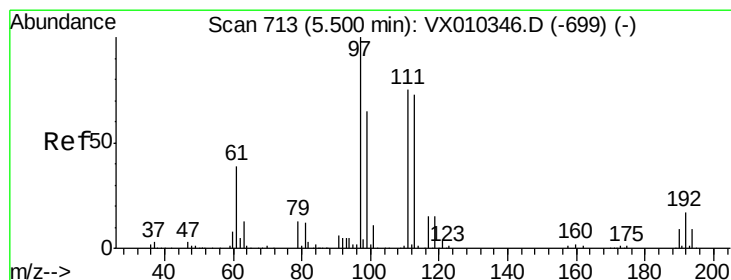
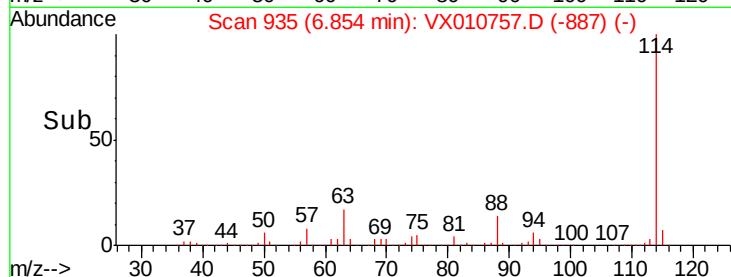
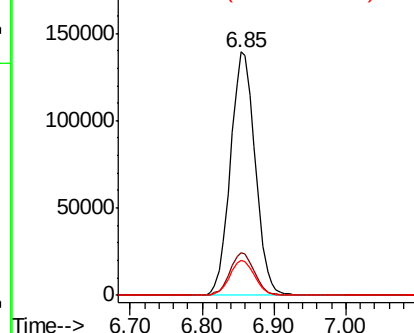
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
WP022RW349-190705DL

Tot Ion:114 Resp: 333857
Ion Ratio Lower Upper
114 100
63 17.2 0.0 33.8
88 14.3 0.0 27.6

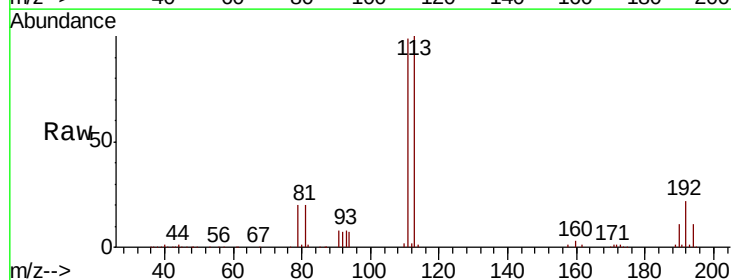


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

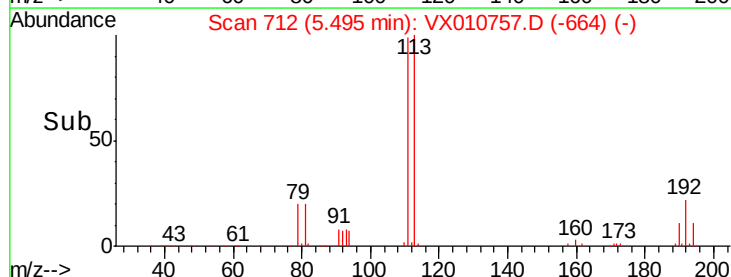
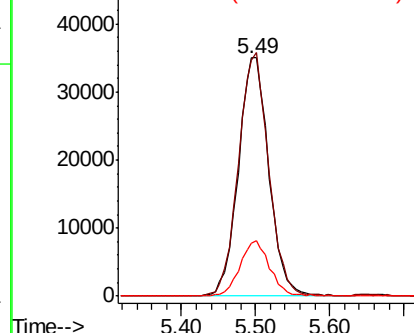


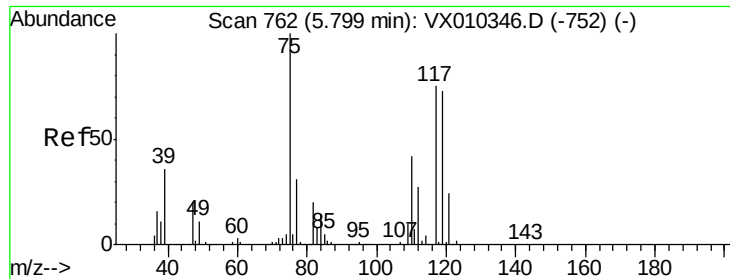
#35
Dibromofluoromethane
Concen: 49.311 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Tgt Ion:113 Resp: 100726
Ion Ratio Lower Upper
113 100
111 101.1 81.2 121.8
192 22.4 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

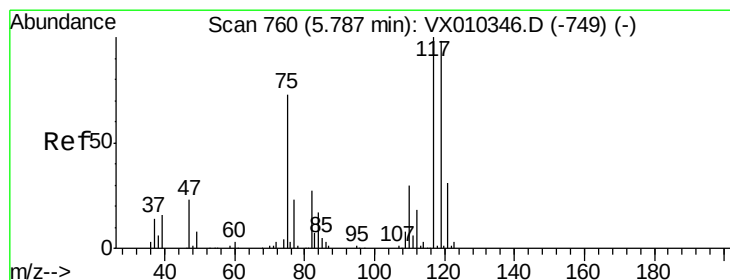
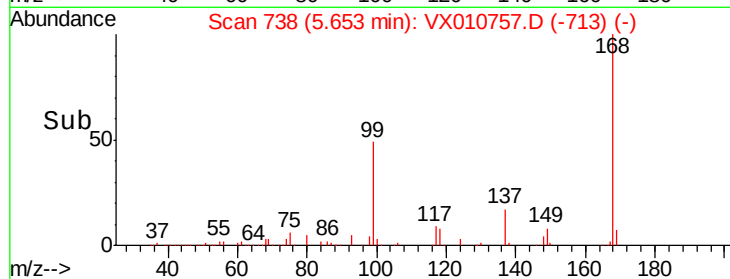
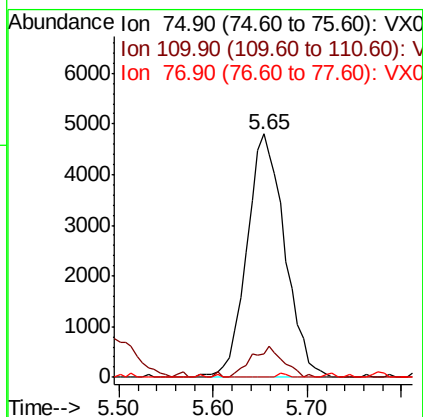
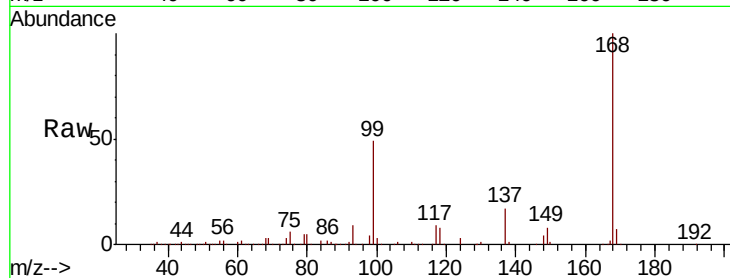




#36
 1,1-Dichloropropene
 Concen: 5.103 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX010757.D
 Acq: 09 Jul 2019 17:44

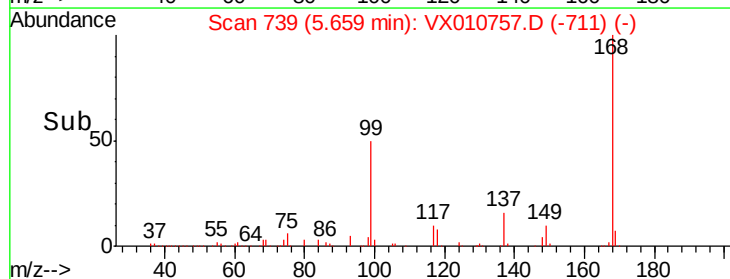
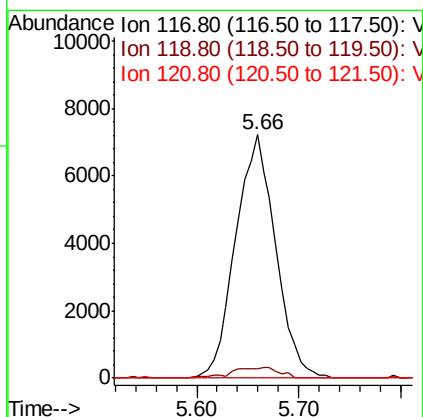
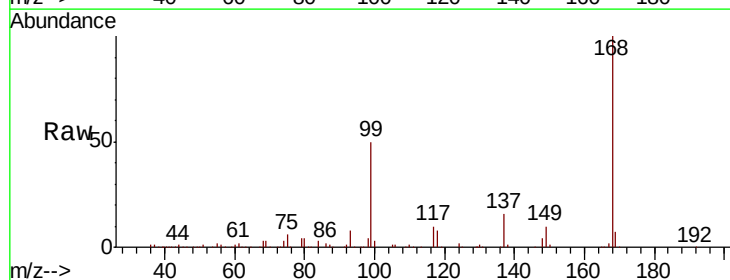
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022RW349-190705DL

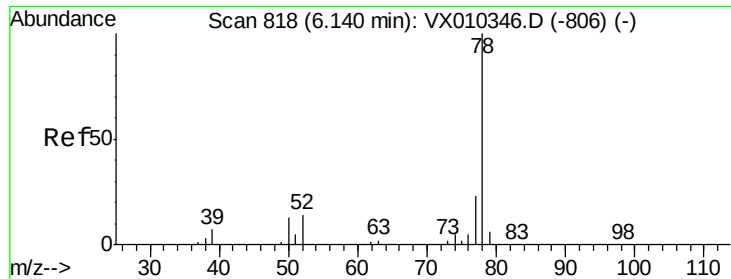
Tot Ion	75	Resp	13539
Ion Ratio	100	Lower	Upper
75	100		
110	10.9	20.8	62.2#
77	0.4	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.821 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010757.D
 Acq: 09 Jul 2019 17:44

Tgt Ion	117	Resp	19596
Ion Ratio	100	Lower	Upper
117	100		
119	4.0	78.2	117.4#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 0.433 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

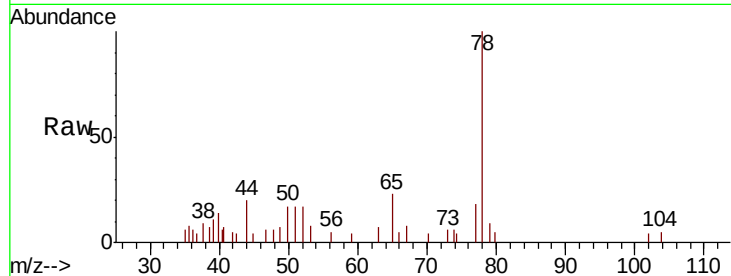
WP022RW349-190705DL

Tot Ion: 78 Resp: 3575

Ion Ratio Lower Upper

78 100

77 18.3 18.6 28.0#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

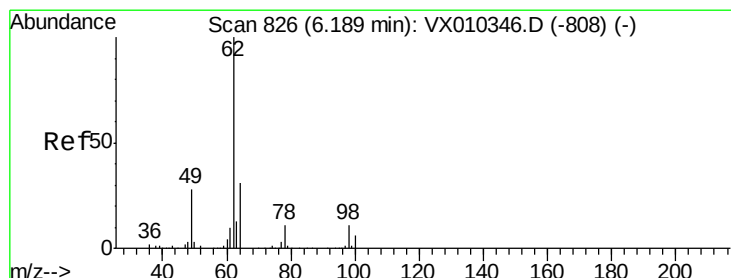
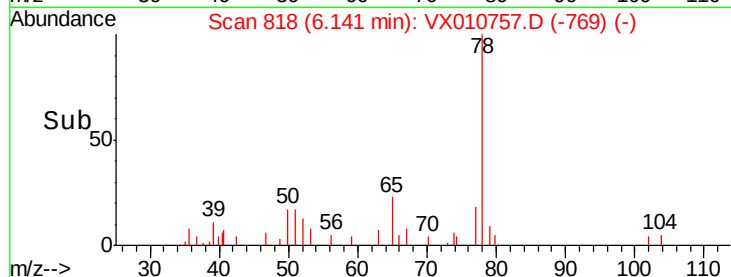
1500

1000

500

0

Time--> 6.00 6.10 6.20



#42

1,2-Dichloroethane

Concen: 0.328 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.02 min

Lab File: VX010757.D

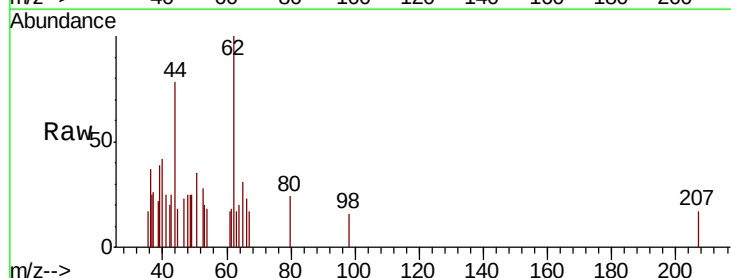
Acq: 09 Jul 2019 17:44

Tgt Ion: 62 Resp: 824

Ion Ratio Lower Upper

62 100

98 2.3 0.0 22.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.21

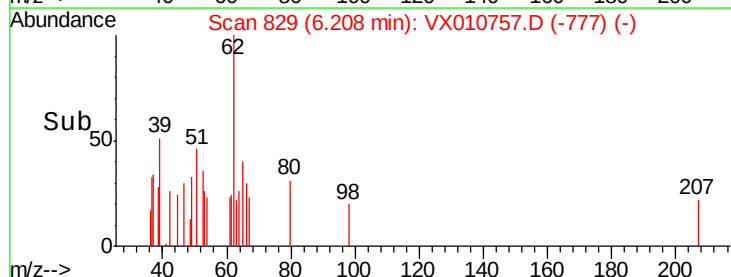
300

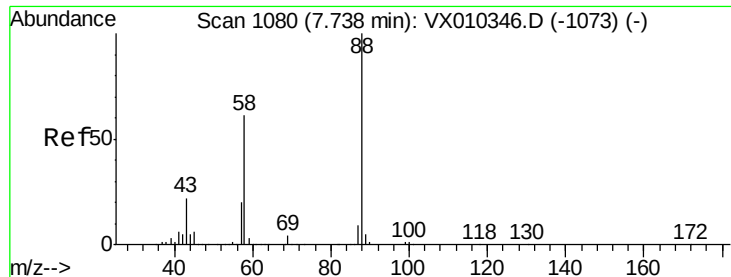
200

100

0

Time--> 6.10 6.15 6.20 6.25

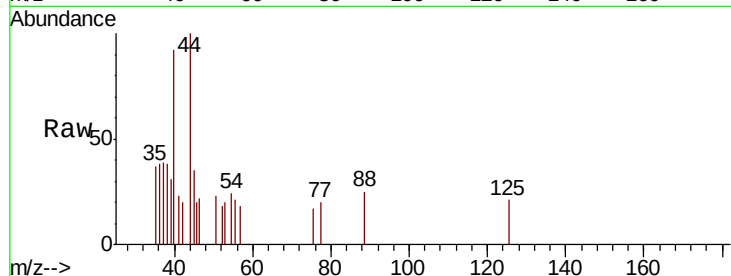




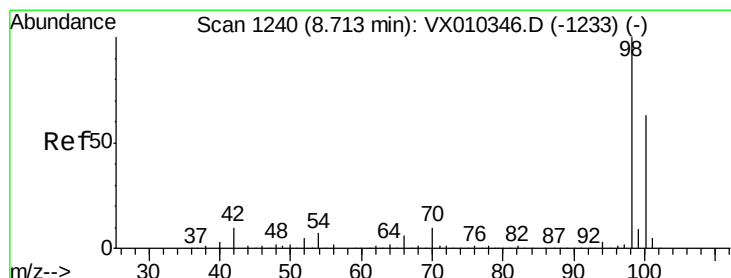
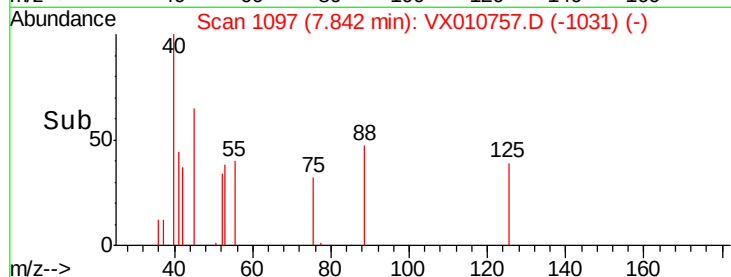
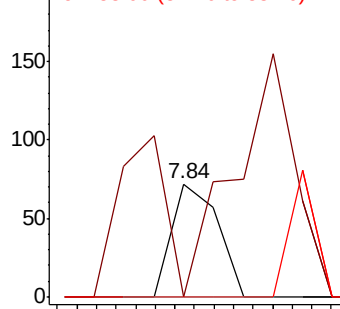
#49
1,4-Dioxane
Concen: 0.777 ug/l
RT: 7.84 min Scan# 1097
Delta R.T. 0.10 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
WP022RW349-190705DL

Tot Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 144.7 20.2 30.2#
58 0.0 49.5 74.3#

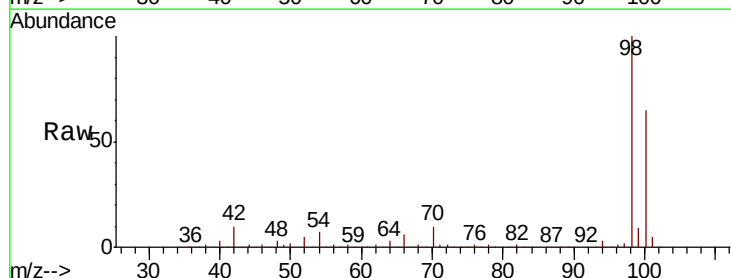


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

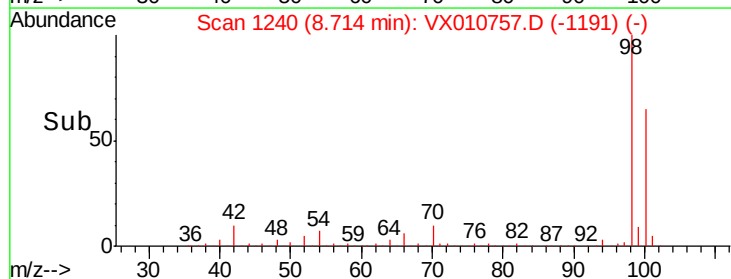
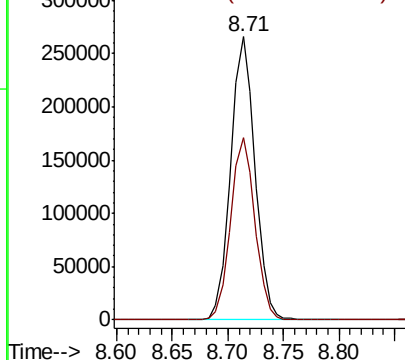


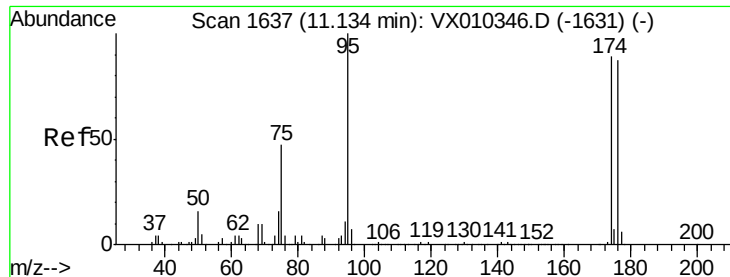
#50
Toluene-d8
Concen: 51.354 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Tgt Ion: 98 Resp: 401325
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 49.408 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

WP022RW349-190705DL

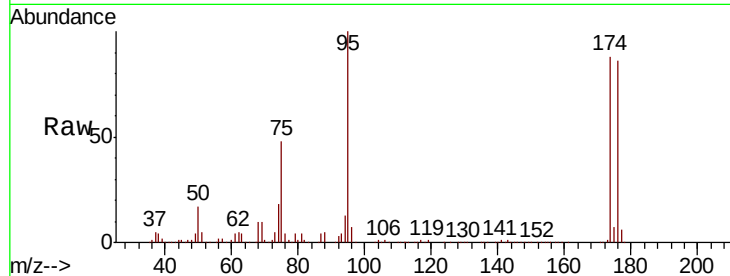
Tot Ion: 95 Resp: 139399

Ion Ratio Lower Upper

95 100

174 94.4 0.0 187.6

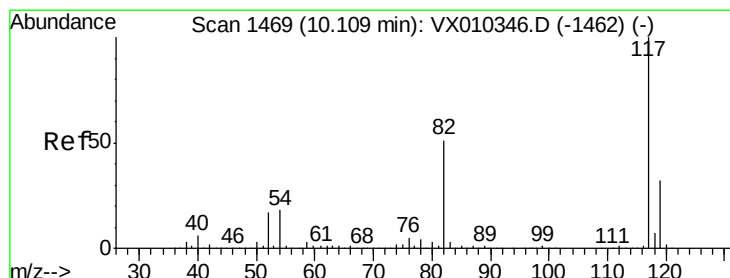
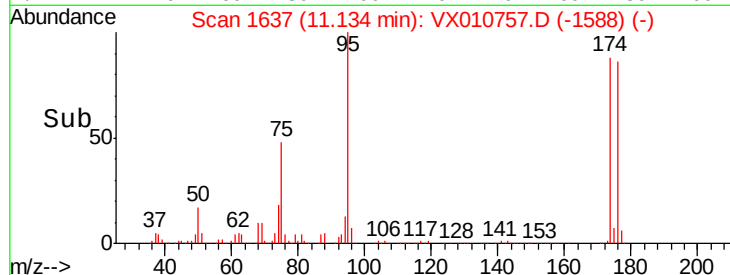
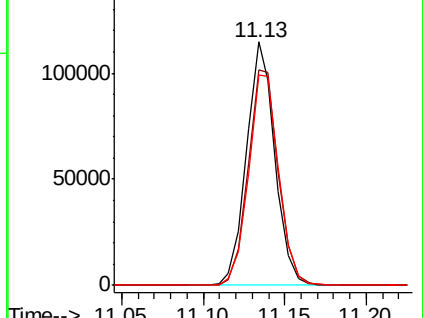
176 92.3 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010346.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010346.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010346.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

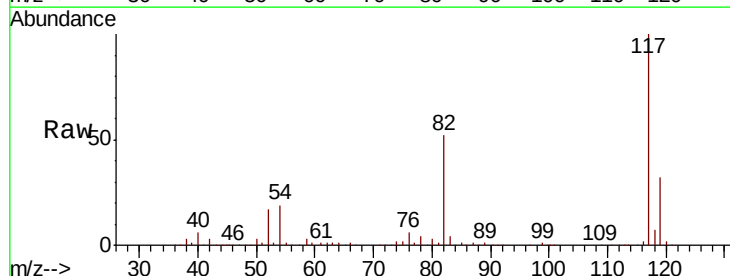
Tgt Ion: 117 Resp: 317798

Ion Ratio Lower Upper

117 100

82 51.8 41.2 61.8

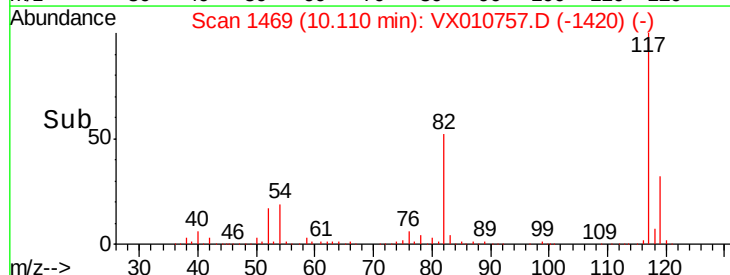
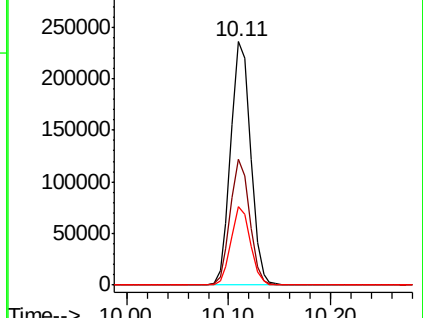
119 32.0 25.5 38.3

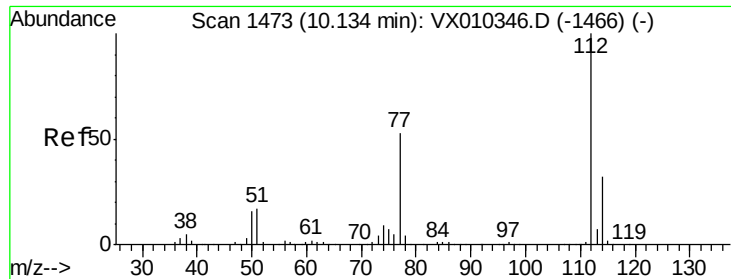


Abundance Ion 116.90 (116.60 to 117.60): VX010346.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010346.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010346.D (-1462) (-)

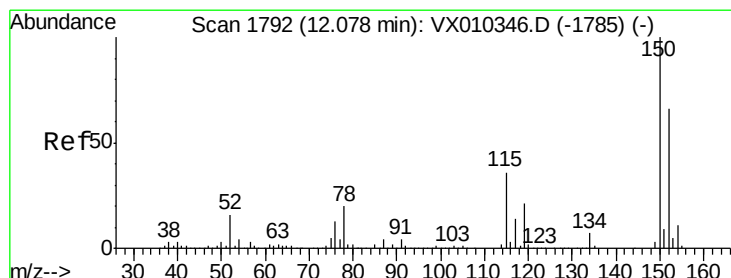
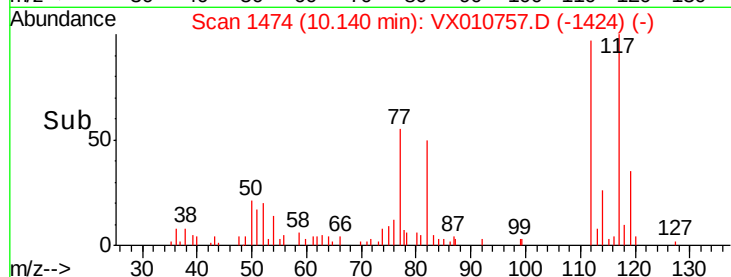
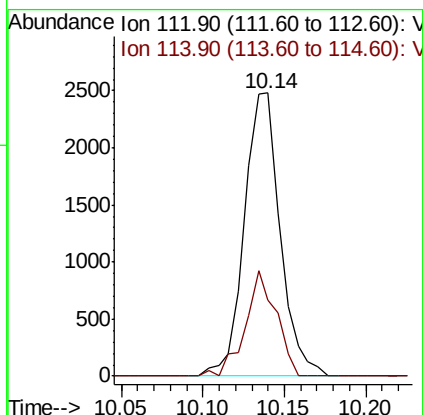
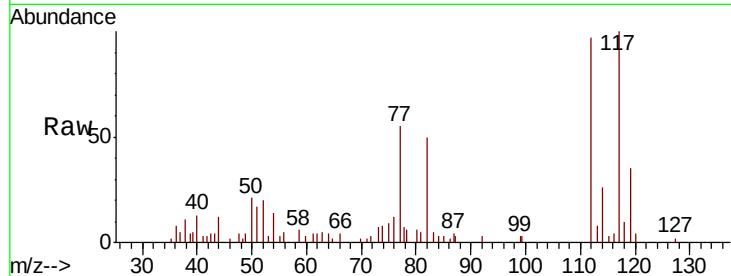




#65
Chlorobenzene
Concen: 0.591 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

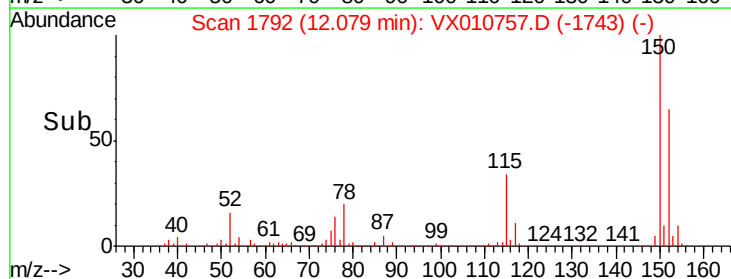
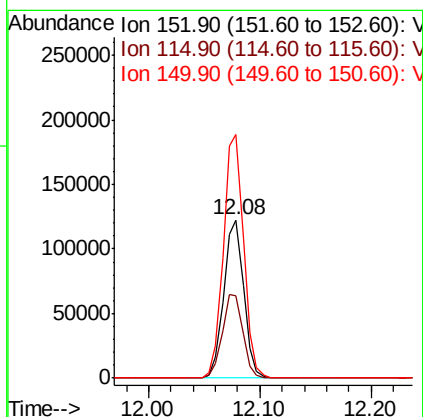
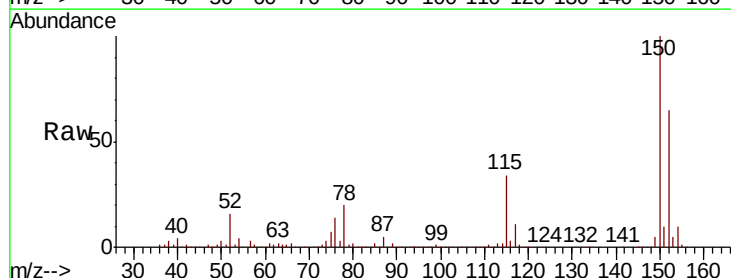
Instrument :
MSVOA_X
ClientSampleId :
WP022RW349-190705DL

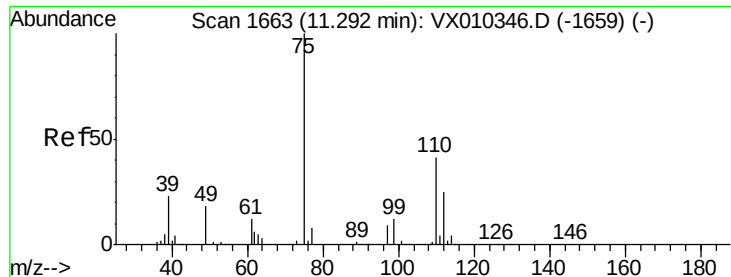
Tot Ion:112 Resp: 3815
Ion Ratio Lower Upper
112 100
114 27.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010757.D
Acq: 09 Jul 2019 17:44

Tgt Ion:152 Resp: 151445
Ion Ratio Lower Upper
152 100
115 54.8 38.6 115.7
150 156.2 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 24.529 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

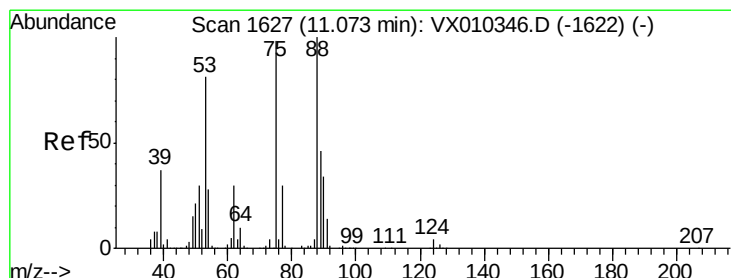
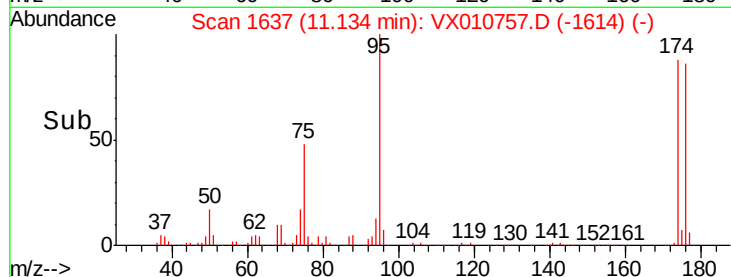
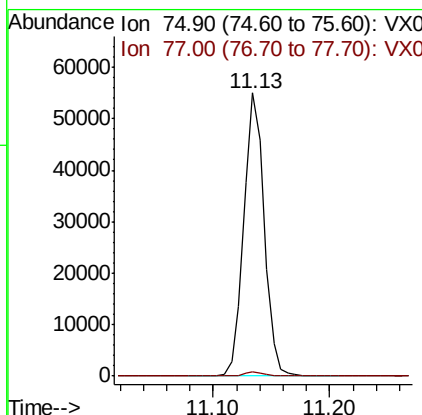
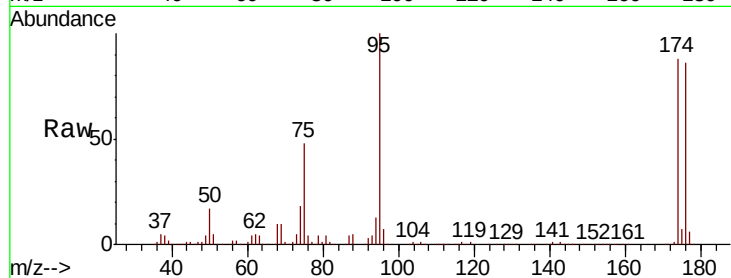
WP022RW349-190705DL

Tot Ion: 75 Resp: 67692

Ion Ratio Lower Upper

75 100

77 1.5 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.222 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

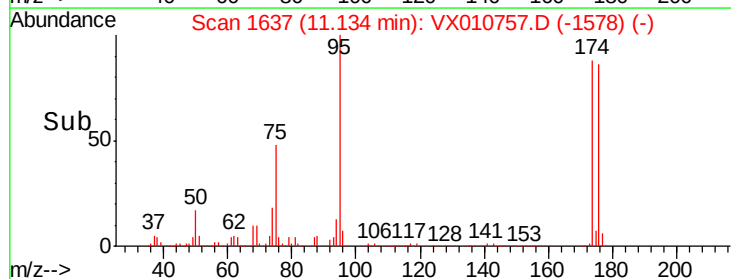
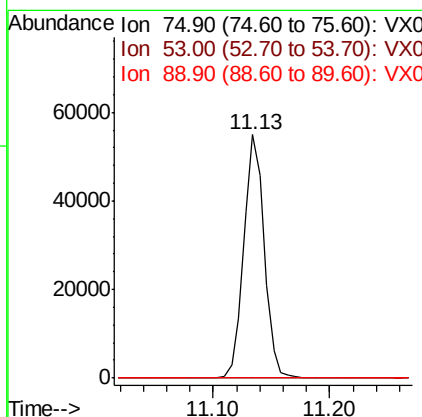
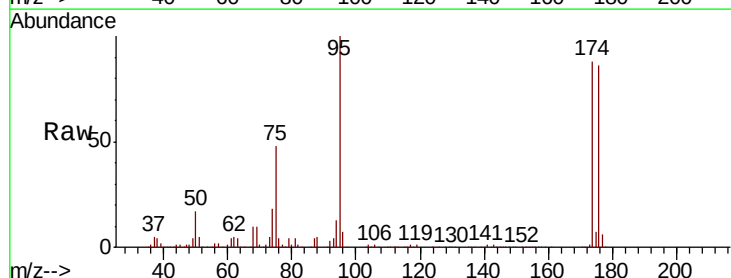
Tgt Ion: 75 Resp: 67692

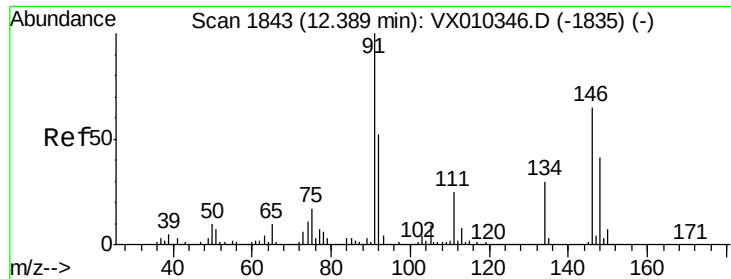
Ion Ratio Lower Upper

75 100

53 0.0 66.1 99.1#

89 0.0 37.8 56.6#





#91

1,2-Dichlorobenzene

Concen: 0.651 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010757.D

Acq: 09 Jul 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

WP022RW349-190705DL

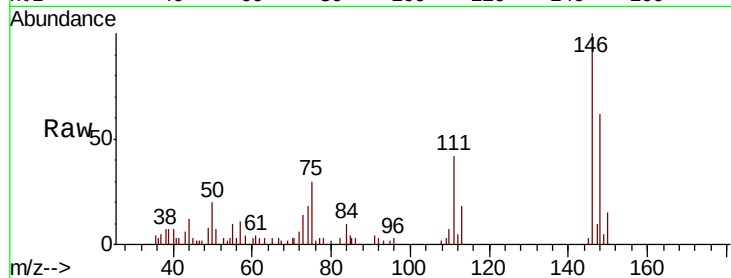
Tot Ion:146 Resp: 3238

Ion Ratio Lower Upper

146 100

111 44.3 19.2 57.6

148 65.8 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

