

Data File : VW003519.D
Acq On : 24 Jun 2018 18:57
Operator : SY/AP
Sample : J3669-21
Misc : 6.76G/5ML/MSVOA_W/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

Quant Time: Jun 24 23:30:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 05:18:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	159581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	263707	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	242044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	116840	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	102378	59.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.46%	
35) Dibromofluoromethane	7.88	113	85942	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
50) Toluene-d8	10.33	98	290878	44.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.54%	
62) 4-Bromofluorobenzene	12.63	95	105829	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

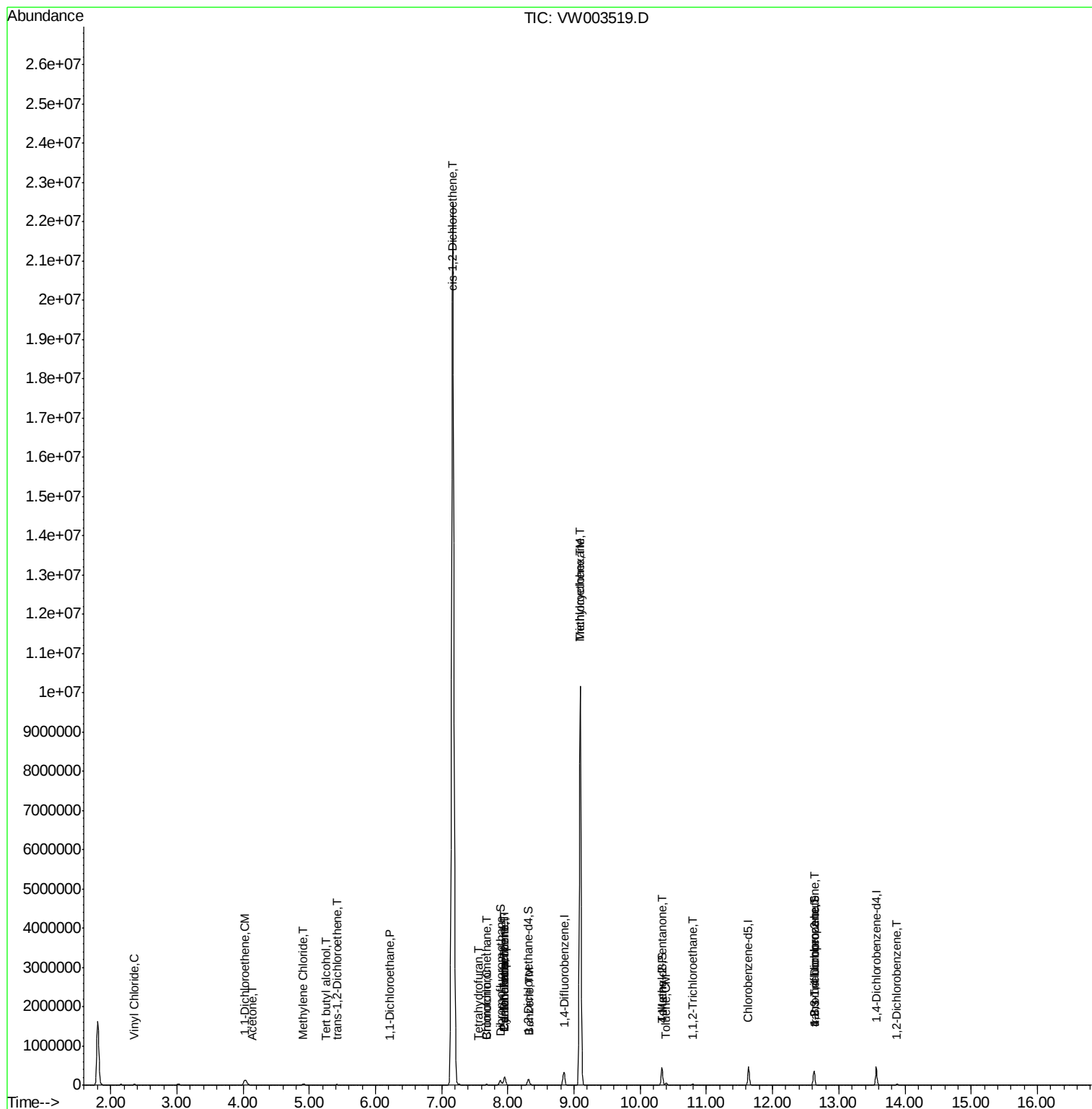
Target Compounds						Qvalue
4) Vinyl Chloride	2.36	62	11661	6.562	ug/l	100
11) Tert butyl alcohol	5.26	59	276	2.977	ug/l #	84
12) 1,1-Dichloroethene	4.03	96	83350	57.698	ug/l	97
16) Acetone	4.15	43	5233	14.435	ug/l	97
20) Methylene Chloride	4.92	84	17747	8.476	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	8164	5.193	ug/l	98
24) 1,1-Dichloroethane	6.21	63	3108	1.040	ug/l #	95
27) cis-1,2-Dichloroethene	7.17	96	12505772	7240.911	ug/l	92
28) Bromochloromethane	7.67	49	1482	1.191	ug/l #	15
29) Tetrahydrofuran	7.55	42	1013	3.677	ug/l #	84
30) Chloroform	7.68	83	13880	4.557	ug/l	95
31) Cyclohexane	7.95	56	5701	2.041	ug/l #	42
36) 1,1-Dichloropropene	7.95	75	13511	5.305	ug/l #	48
38) Carbon Tetrachloride	7.95	117	15828	6.336	ug/l #	16
39) Methylcyclohexane	9.09	83	42641	14.471	ug/l #	1
40) Benzene	8.32	78	32665	4.653	ug/l	96
44) Trichloroethene	9.09	130	3346165	1798.905	ug/l	95
51) 4-Methyl-2-Pentanone	10.32	43	1649	1.545	ug/l #	1
52) Toluene	10.39	92	20009	4.445	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	6697	5.194	ug/l #	87
76) 1,2,3-Trichloropropane	12.63	75	57992	58.059	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	57992	133.597	ug/l #	8
91) 1,2-Dichlorobenzene	13.88	146	5829	1.712	ug/l	95

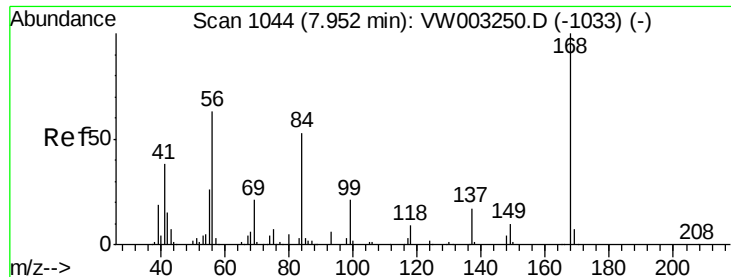
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

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MSVOA_W

ClientSampleId :

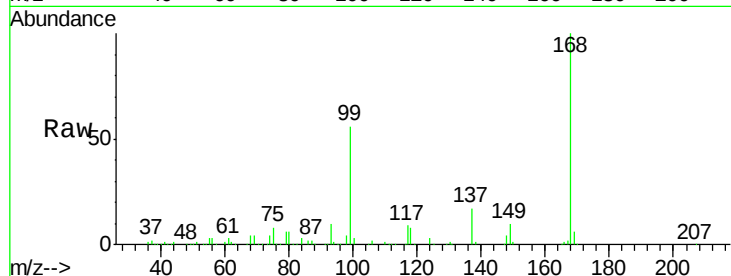
WP021SB475-31-33-180620

Tgt Ion:168 Resp: 159581

Ion Ratio Lower Upper

168 100

99 56.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

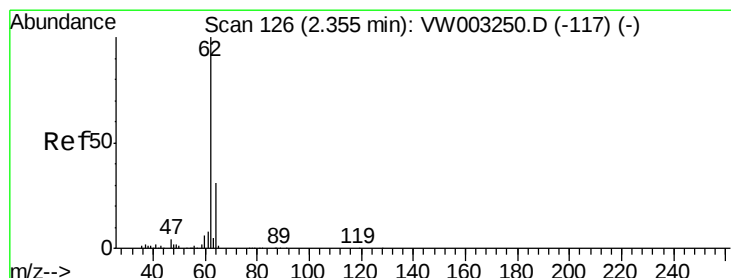
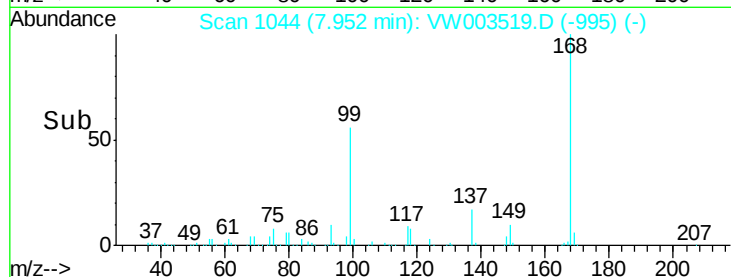
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#4

Vinyl Chloride

Concen: 6.562 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW003519.D

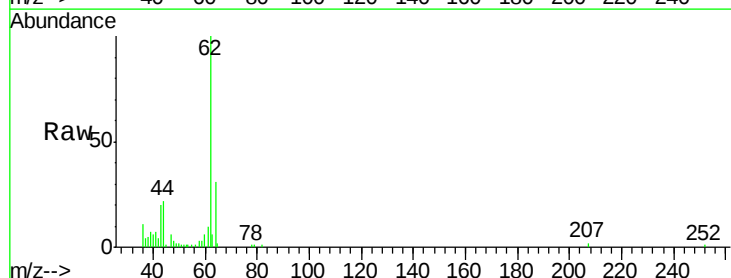
Acq: 24 Jun 2018 18:57

Tgt Ion: 62 Resp: 11661

Ion Ratio Lower Upper

62 100

64 31.3 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

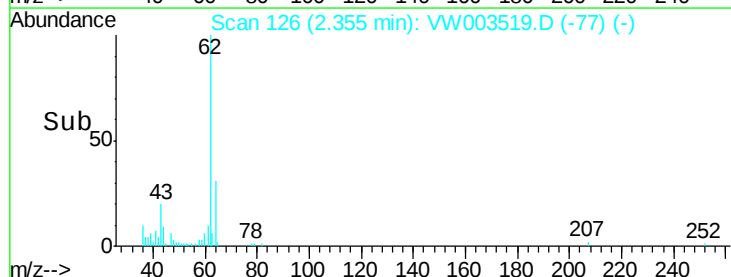
6000

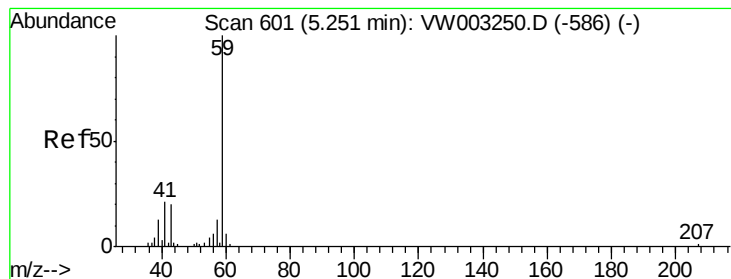
4000

2000

0

Time--> 2.30 2.35 2.40 2.45



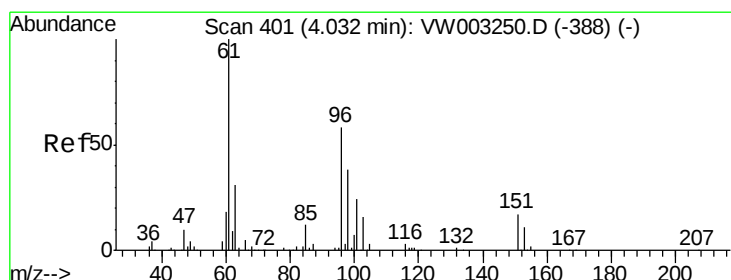
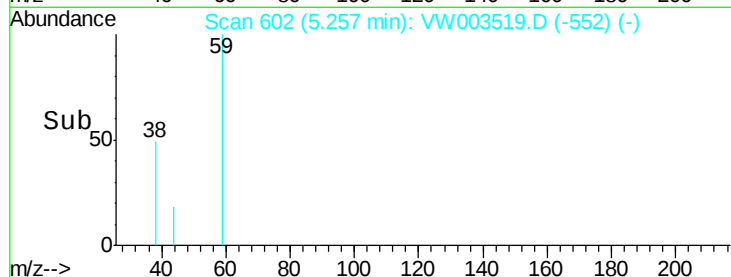
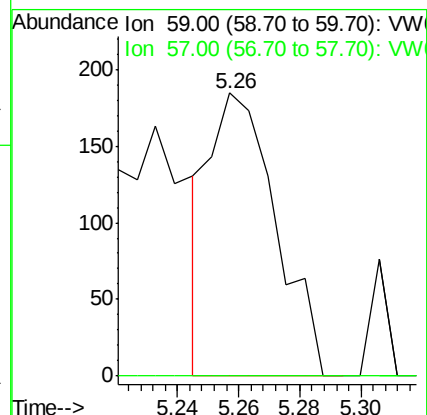
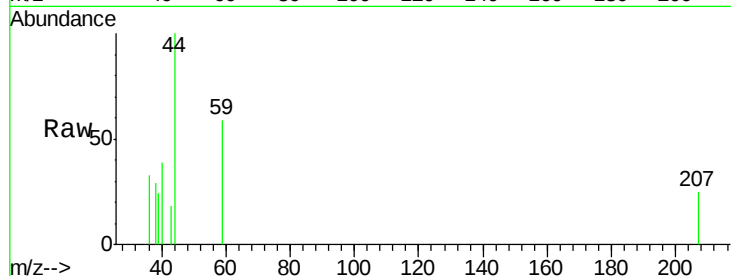


#11

Tert butyl alcohol
Concen: 2.977 ug/l
RT: 5.26 min Scan# 602
Delta R.T. 0.01 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

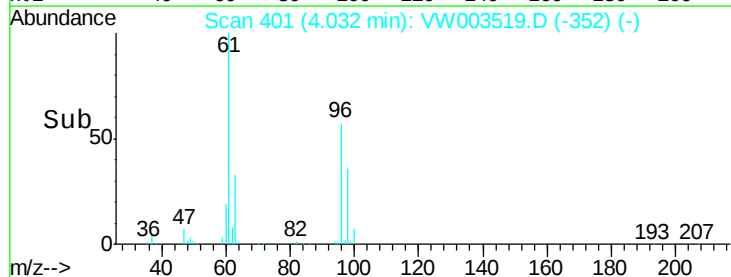
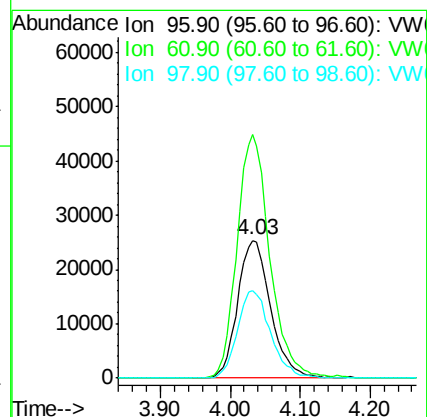
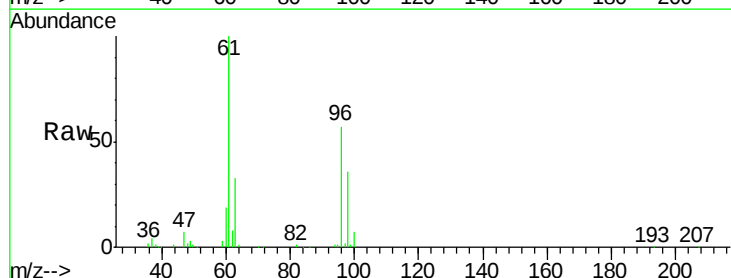
Tgt Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
57 0.0 4.2 6.2#

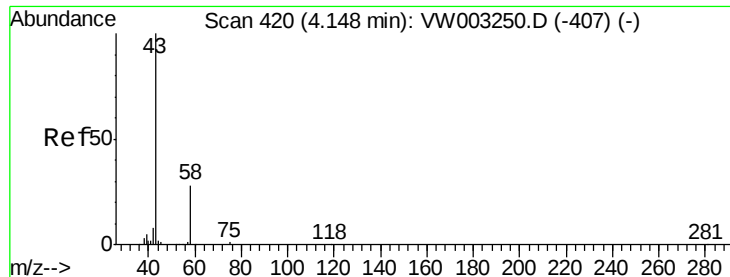


#12

1,1-Dichloroethene
Concen: 57.698 ug/l
RT: 4.03 min Scan# 401
Delta R.T. 0.00 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Tgt Ion: 96 Resp: 83350
Ion Ratio Lower Upper
96 100
61 176.8 139.0 208.4
98 63.8 53.3 79.9





#16

Acetone

Concen: 14.435 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

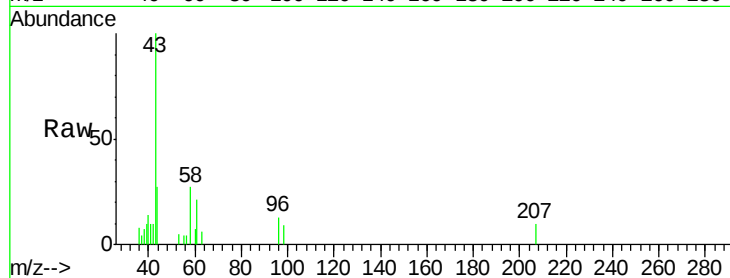
WP021SB475-31-33-180620

Tgt Ion: 43 Resp: 5233

Ion Ratio Lower Upper

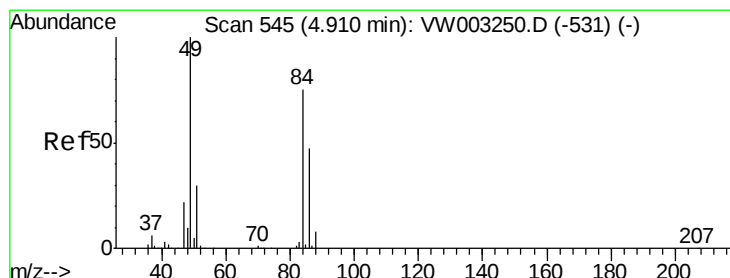
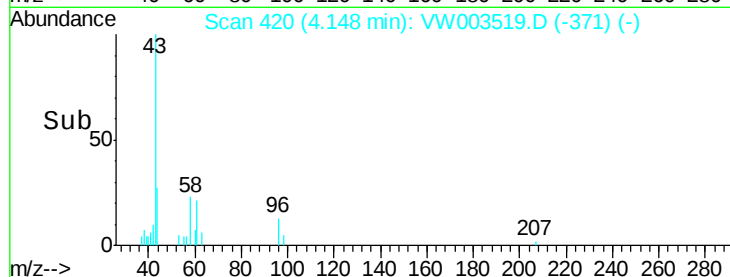
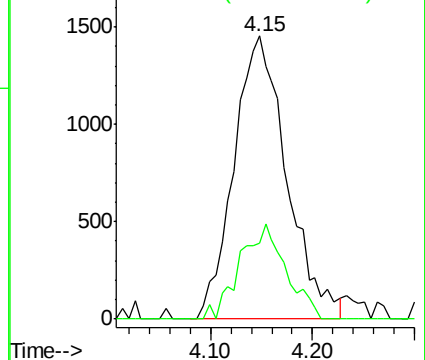
43 100

58 26.6 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 8.476 ug/l

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Tgt Ion: 84 Resp: 17747

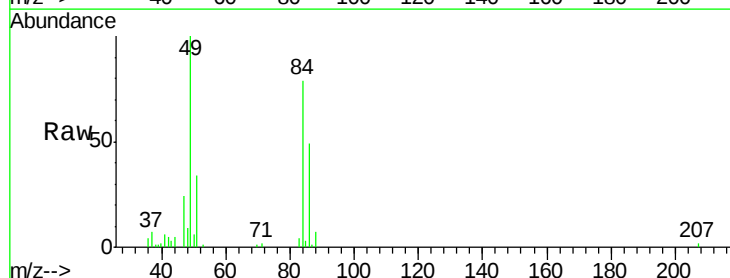
Ion Ratio Lower Upper

84 100

49 124.9 106.3 159.5

51 43.2 32.0 48.0

86 62.0 49.9 74.9

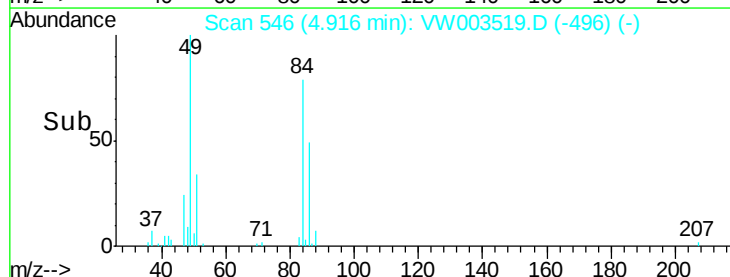
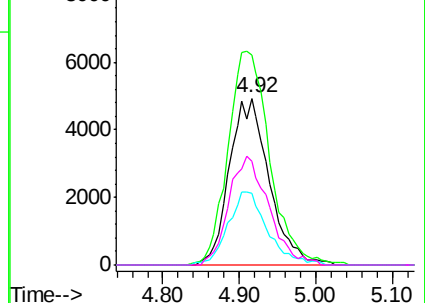


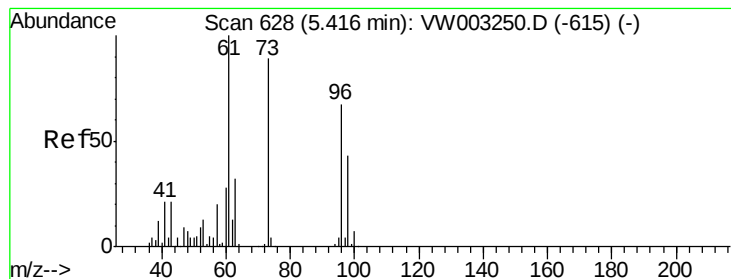
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#21

trans-1,2-Dichloroethene

Concen: 5.193 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

WP021SB475-31-33-180620

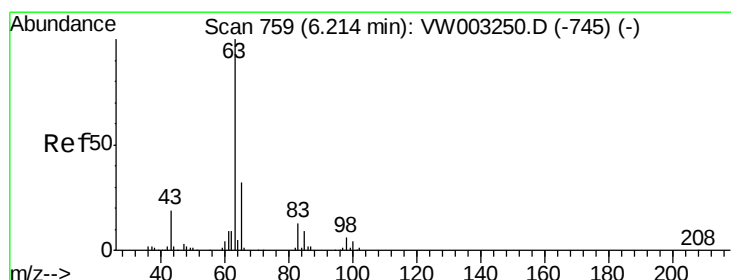
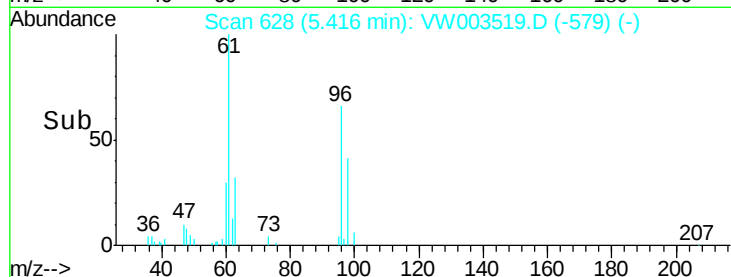
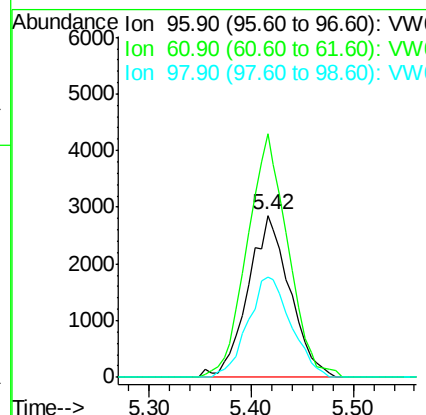
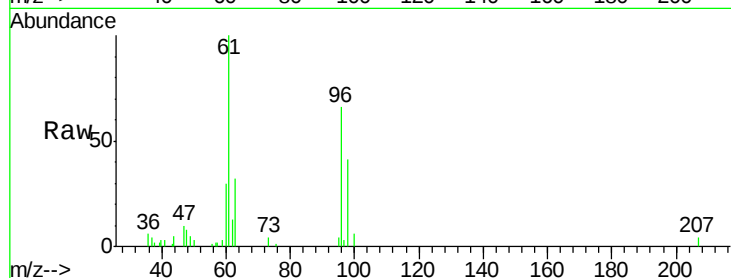
Tgt Ion: 96 Resp: 8164

Ion Ratio Lower Upper

96 100

61 150.5 118.7 178.1

98 61.7 51.0 76.6



#24

1,1-Dichloroethane

Concen: 1.040 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

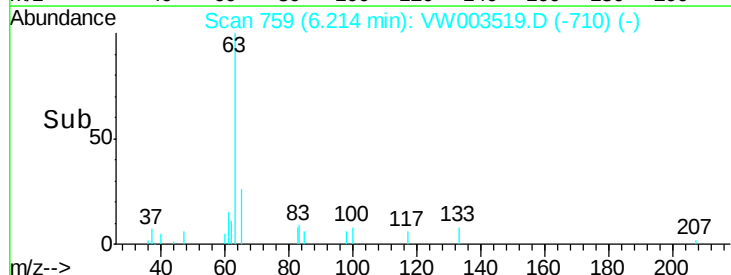
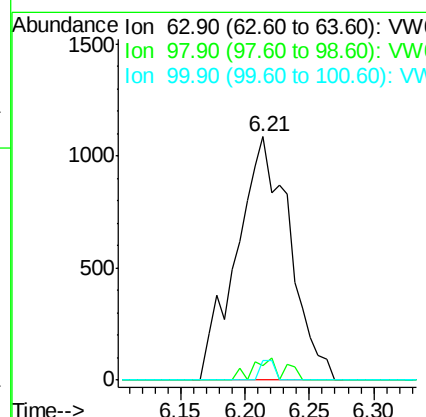
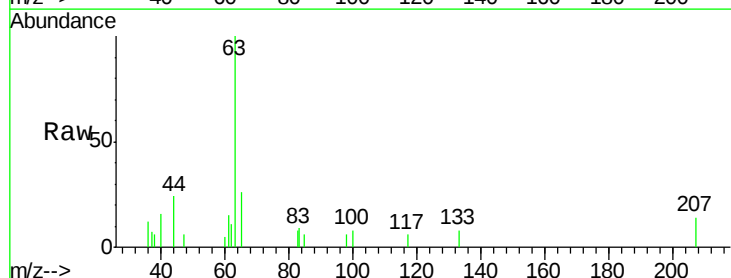
Tgt Ion: 63 Resp: 3108

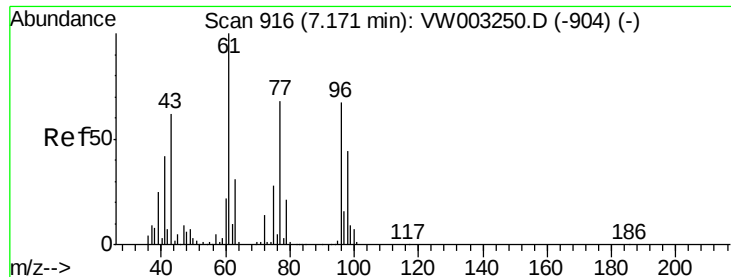
Ion Ratio Lower Upper

63 100

98 5.8 2.8 8.3

100 8.0 2.1 6.5#



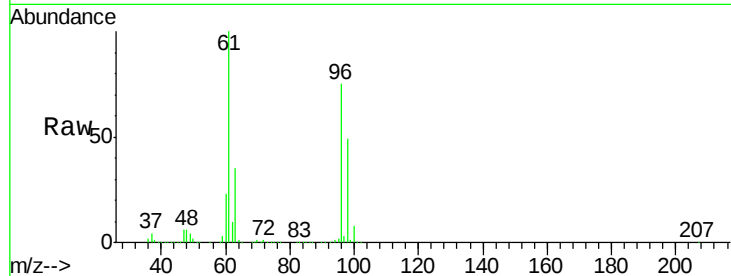


#27

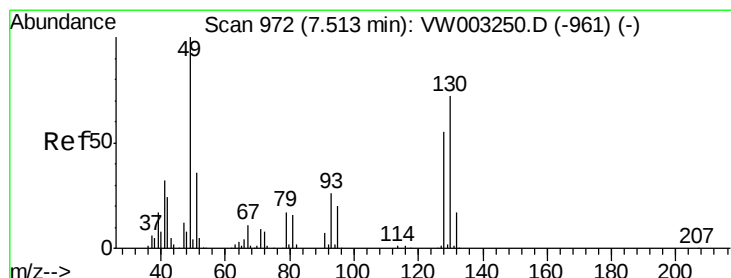
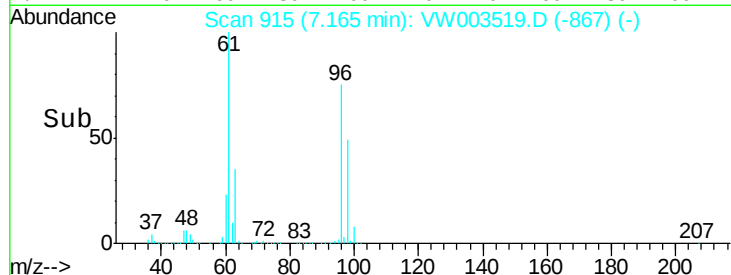
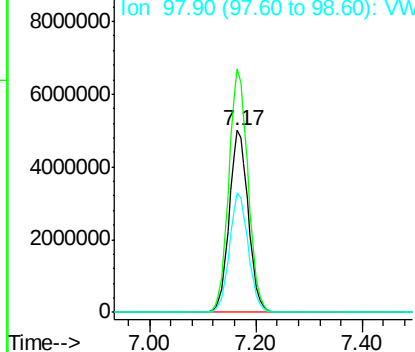
cis-1,2-Dichloroethene
Concen: 7240.911 ug/l
RT: 7.17 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

Tgt Ion: 96 Resp:12505772
Ion Ratio Lower Upper
96 100
61 134.9 0.0 298.8
98 65.0 0.0 130.4



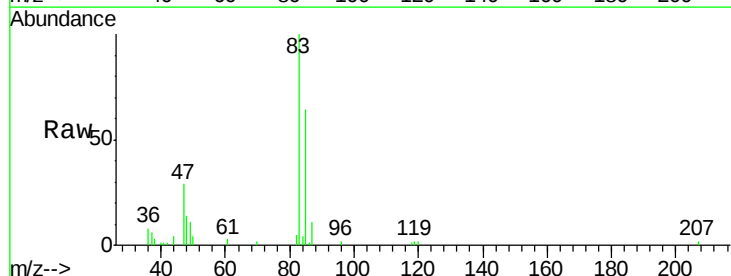
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



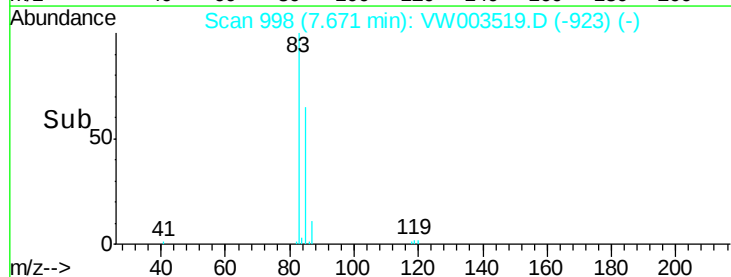
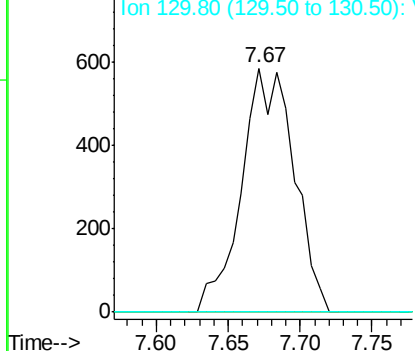
#28

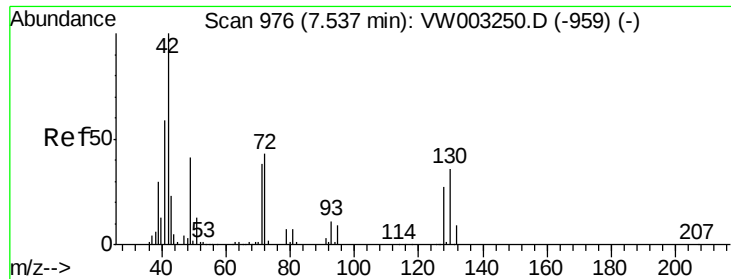
Bromochloromethane
Concen: 1.191 ug/l
RT: 7.67 min Scan# 998
Delta R.T. 0.16 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Tgt Ion: 49 Resp: 1482
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 59.4 89.2#



Abundance Ion 48.90 (48.60 to 49.60): VW
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 3.677 ug/l

RT: 7.55 min Scan# 978

Delta R.T. 0.01 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

WP021SB475-31-33-180620

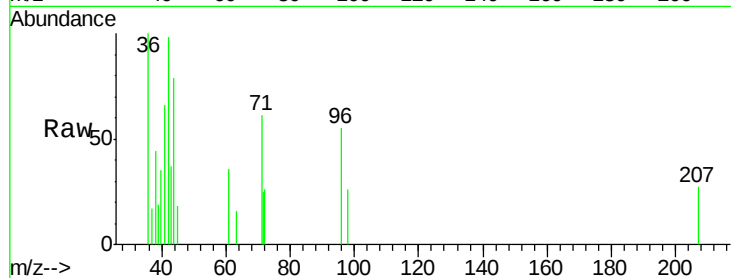
Tgt Ion: 42 Resp: 1013

Ion Ratio Lower Upper

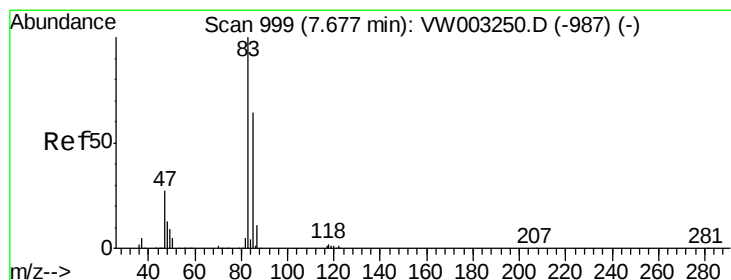
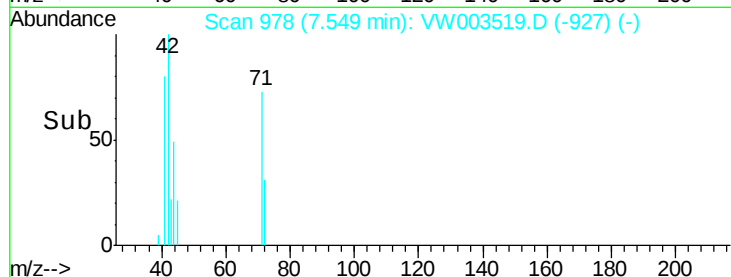
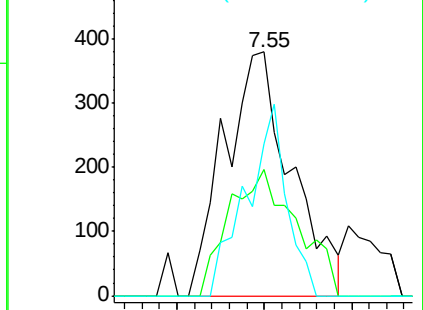
42 100

72 52.3 32.4 48.6#

71 47.2 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 4.557 ug/l

RT: 7.68 min Scan# 999

Delta R.T. 0.00 min

Lab File: VW003519.D

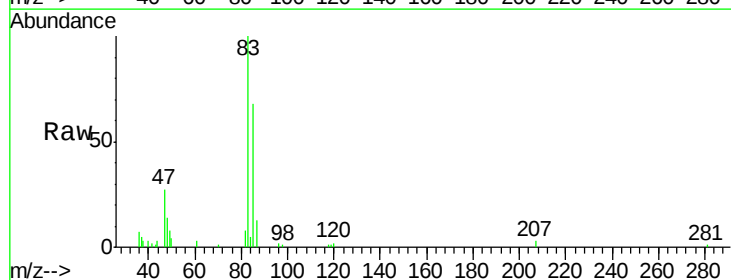
Acq: 24 Jun 2018 18:57

Tgt Ion: 83 Resp: 13880

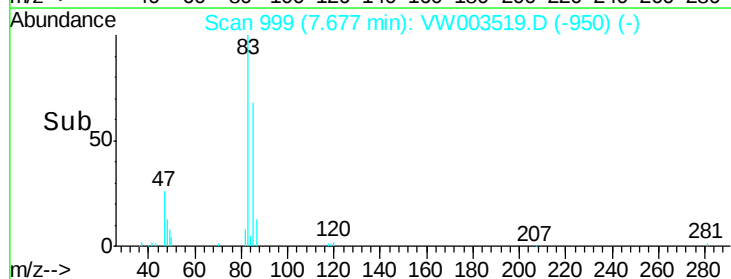
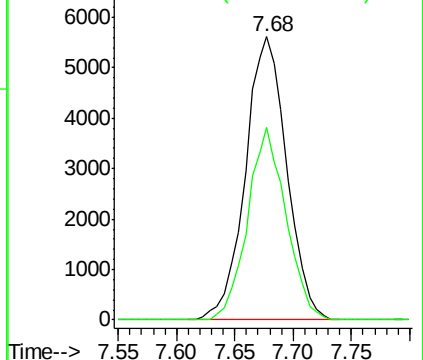
Ion Ratio Lower Upper

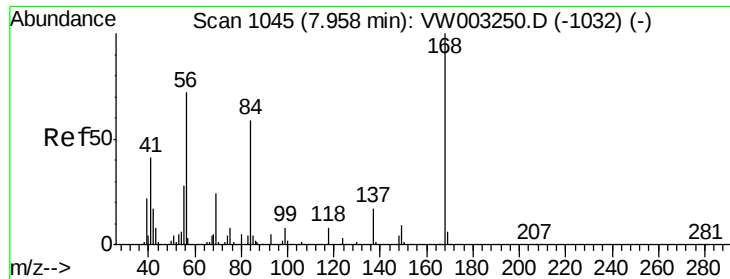
83 100

85 67.9 51.3 76.9



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW

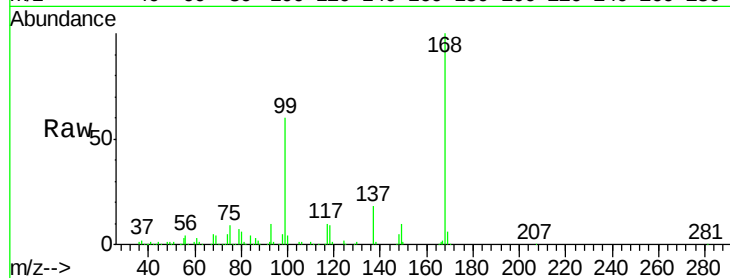




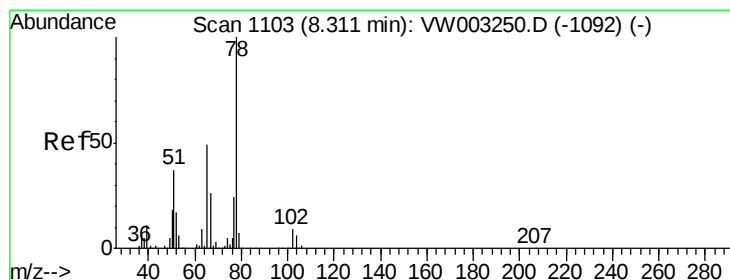
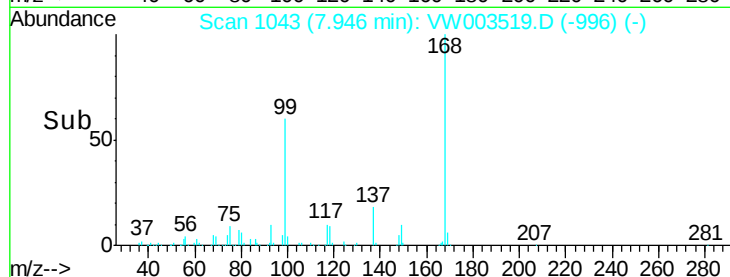
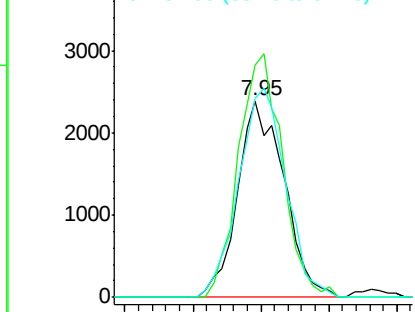
#31
Cyclohexane
Concen: 2.041 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

Tgt Ion: 56 Resp: 5701
Ion Ratio Lower Upper
56 100
69 118.0 26.3 39.5#
84 101.2 65.7 98.5#

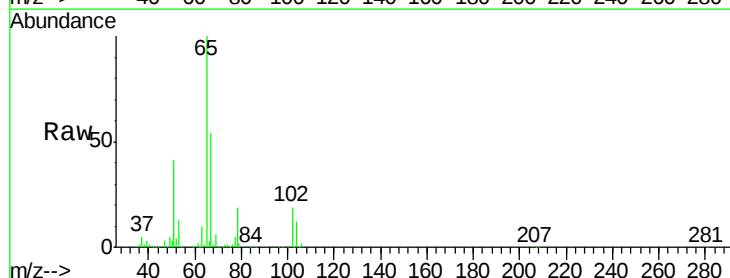


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

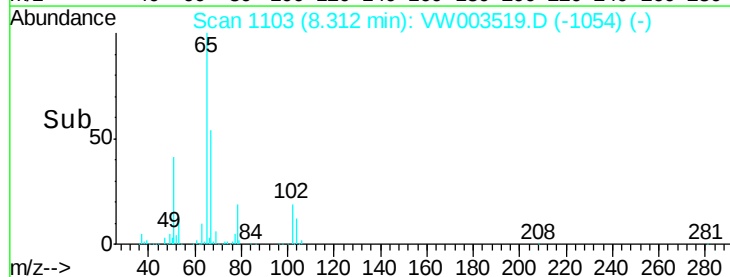
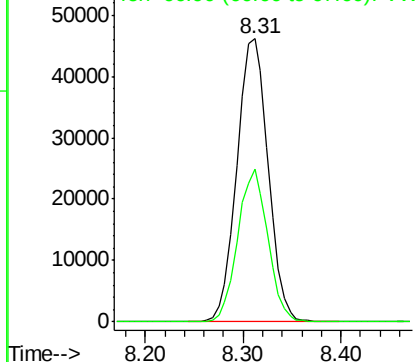


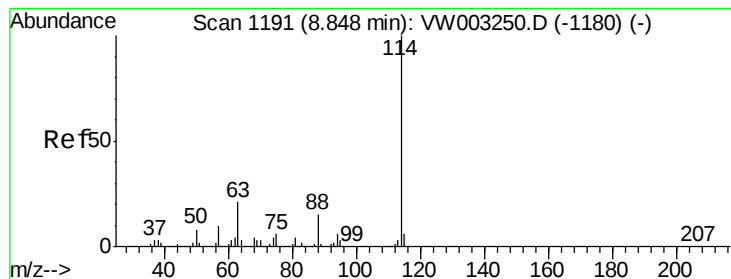
#33
1,2-Dichloroethane-d4
Concen: 59.229 ug/l
RT: 8.31 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Tgt Ion: 65 Resp: 102378
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

WP021SB475-31-33-180620

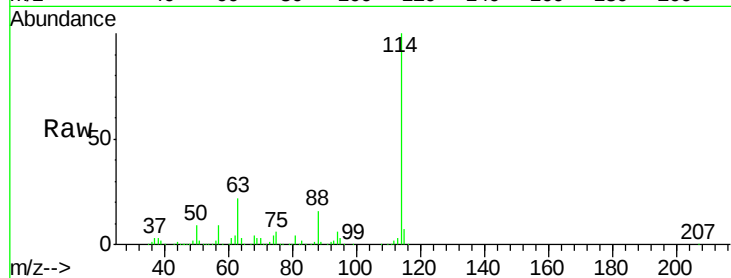
Tgt Ion:114 Resp: 263707

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.0

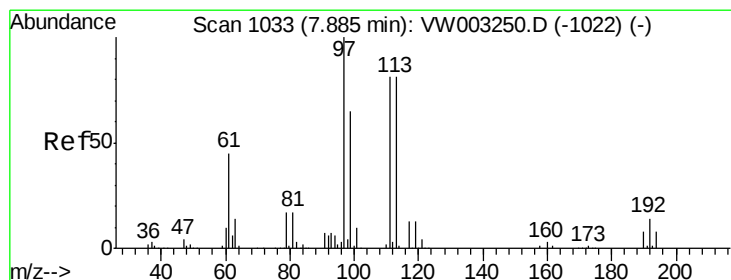
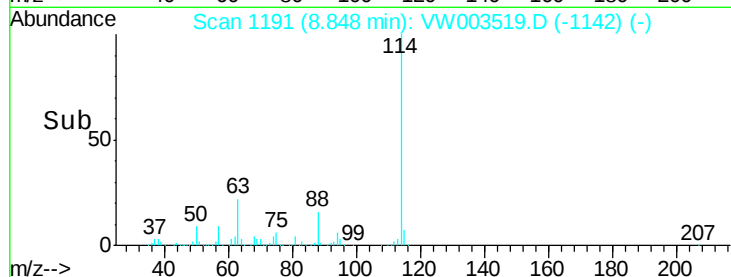
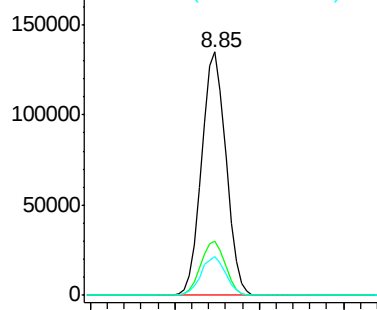
88 15.7 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 52.448 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

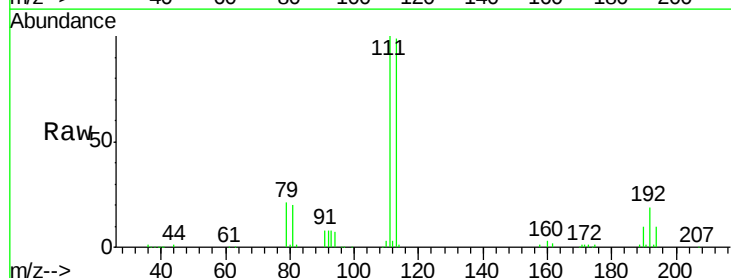
Tgt Ion:113 Resp: 85942

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.2

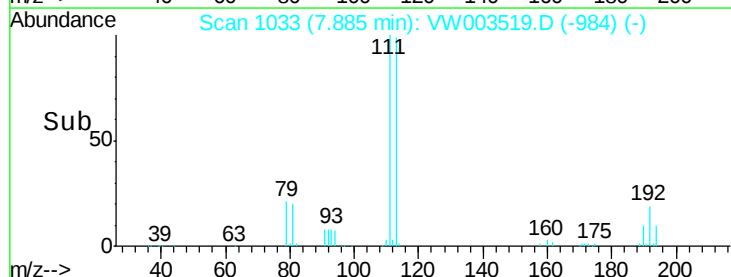
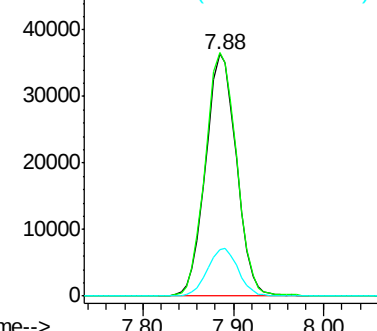
192 19.5 16.2 24.2

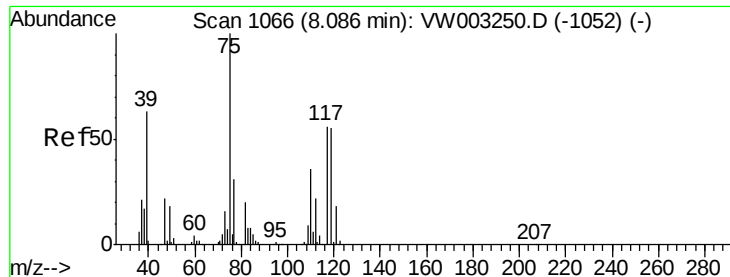


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

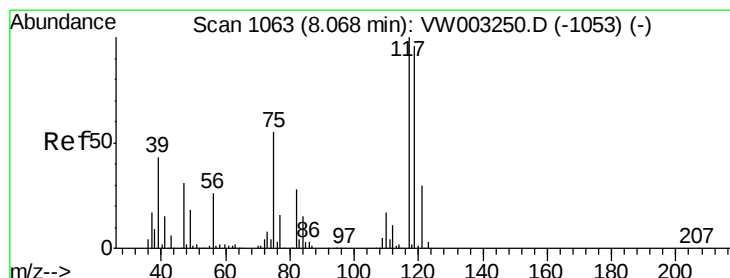
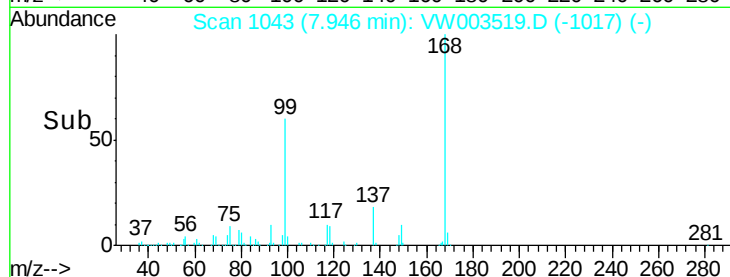
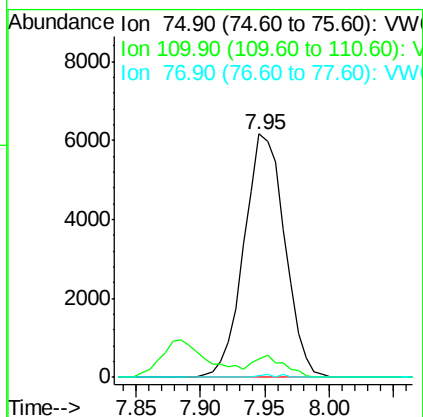
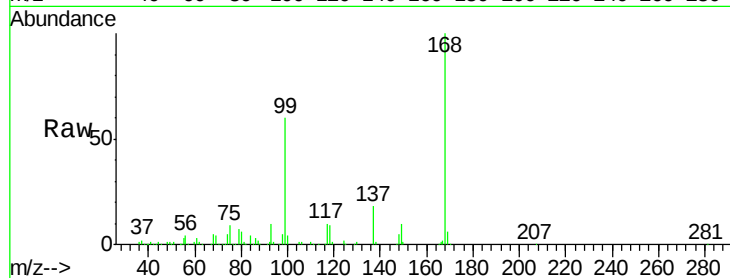




#36
 1,1-Dichloropropene
 Concen: 5.305 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.14 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

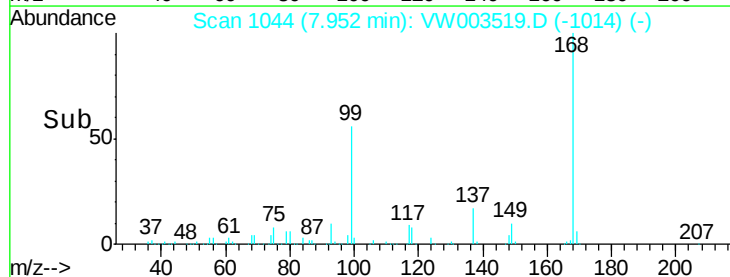
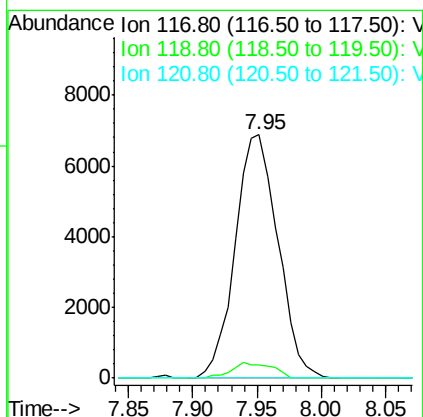
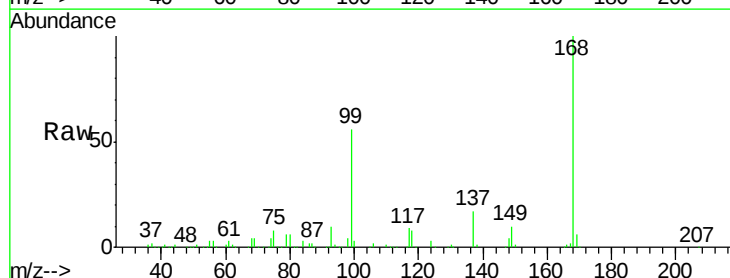
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB475-31-33-180620

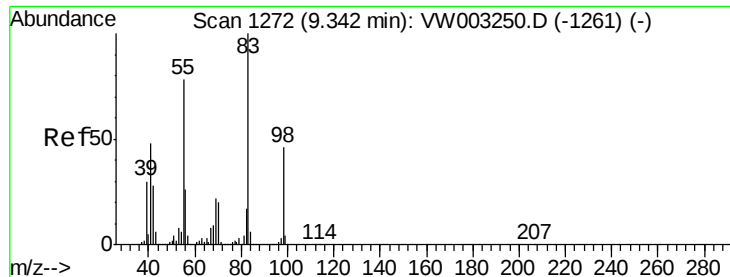
Tgt Ion: 75 Resp: 13511
 Ion Ratio Lower Upper
 75 100
 110 6.8 17.1 51.3#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.336 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.12 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

Tgt Ion: 117 Resp: 15828
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.6 115.0#
 121 0.0 23.9 35.9#

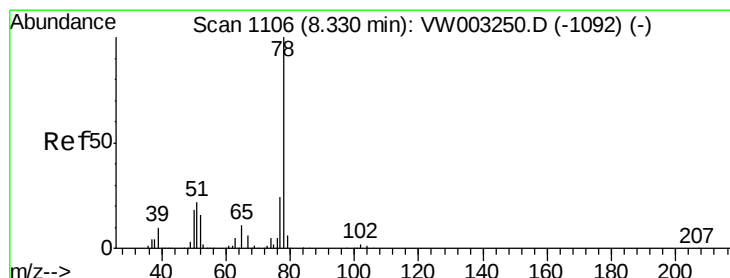
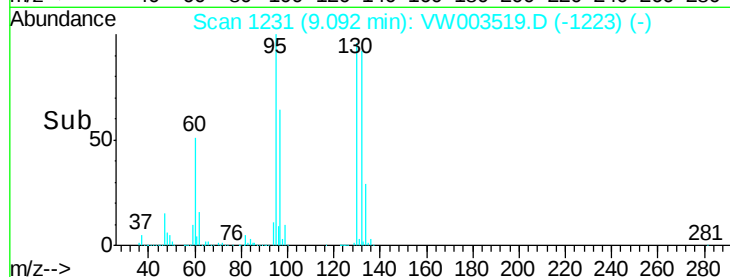
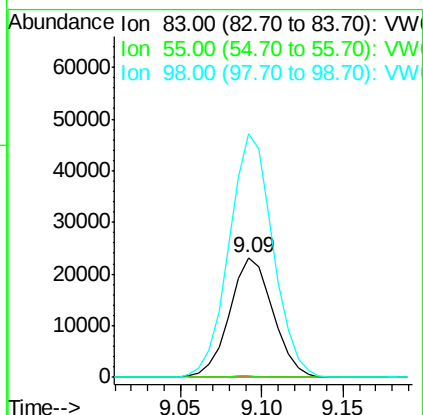
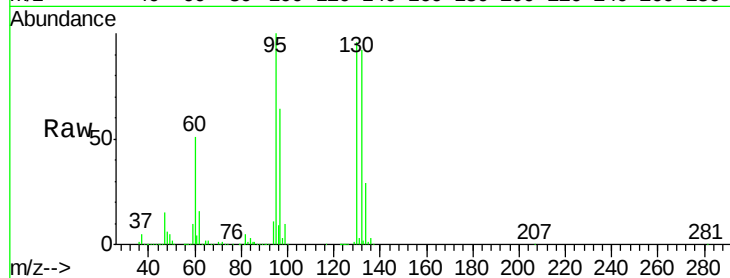




#39
Methylcyclohexane
Concen: 14.471 ug/l
RT: 9.09 min Scan# 1231
Delta R.T. -0.25 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

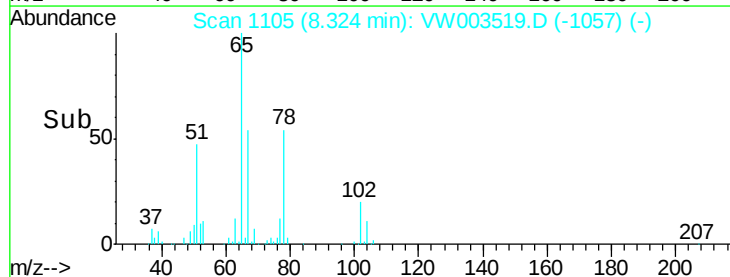
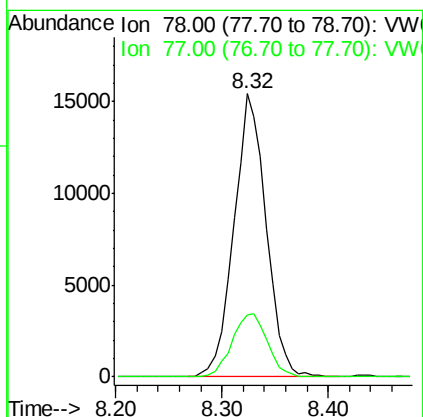
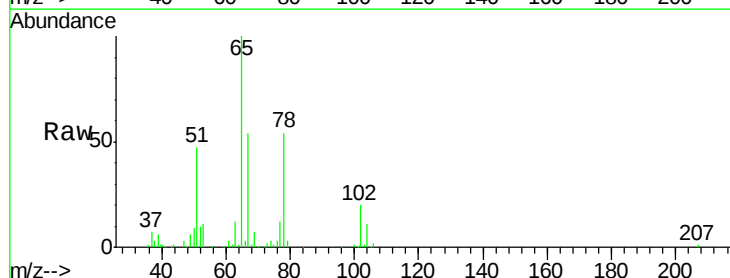
Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

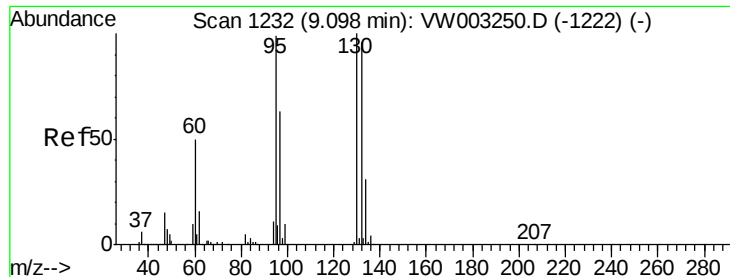
Tgt Ion: 83 Resp: 42641
Ion Ratio Lower Upper
83 100
55 1.0 62.6 93.8#
98 203.6 37.0 55.4#



#40
Benzene
Concen: 4.653 ug/l
RT: 8.32 min Scan# 1105
Delta R.T. -0.01 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Tgt Ion: 78 Resp: 32665
Ion Ratio Lower Upper
78 100
77 21.7 19.0 28.6





#44

Trichloroethene

Concen: 1798.905 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

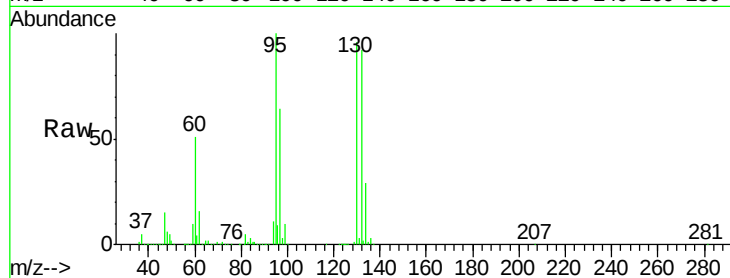
WP021SB475-31-33-180620

Tgt Ion:130 Resp: 3346165

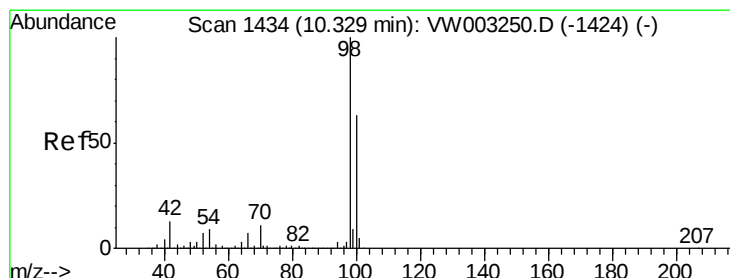
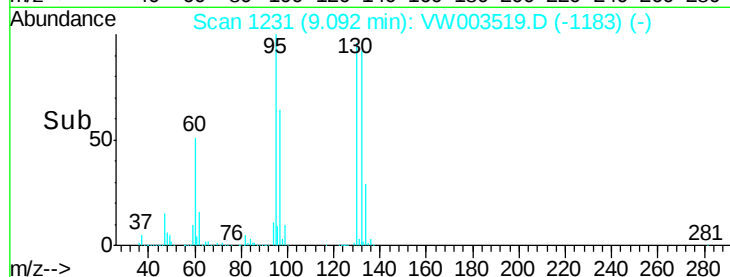
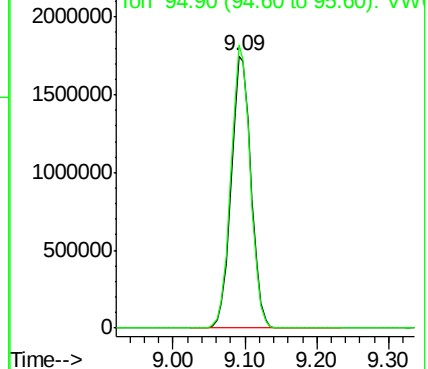
Ion Ratio Lower Upper

130 100

95 104.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): VW003250.D (-1222) (-)



#50

Toluene-d8

Concen: 44.768 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003519.D

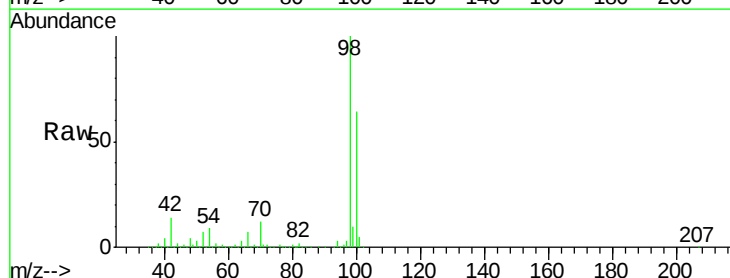
Acq: 24 Jun 2018 18:57

Tgt Ion: 98 Resp: 290878

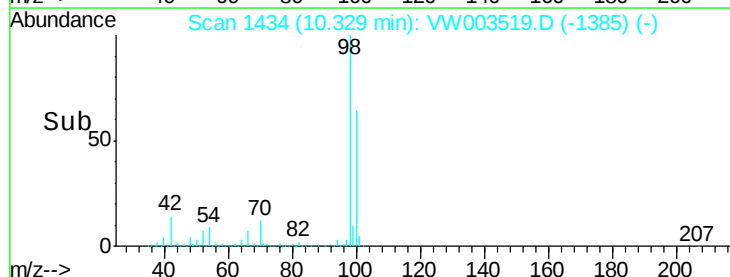
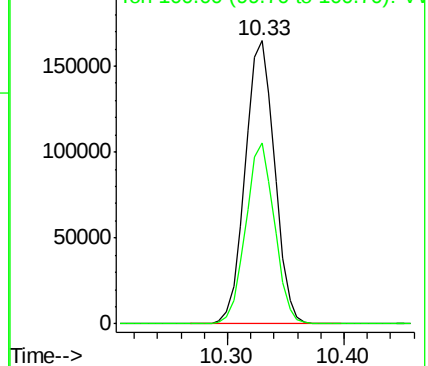
Ion Ratio Lower Upper

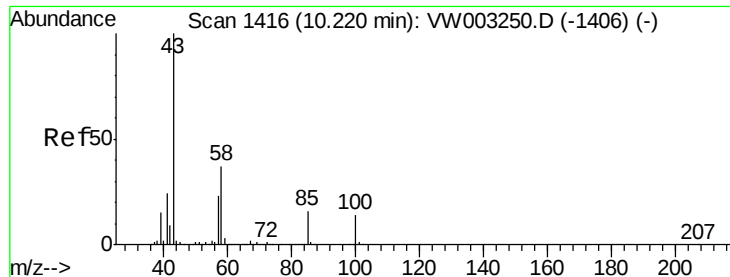
98 100

100 62.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW003250.D (-1424) (-)





#51

4-Methyl-2-Pentanone

Concen: 1.545 ug/l

RT: 10.32 min Scan# 1433

Delta R.T. 0.10 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

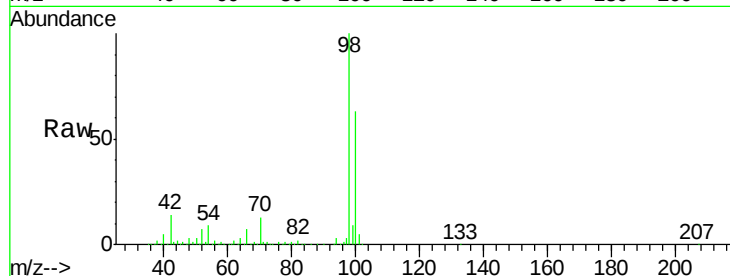
WP021SB475-31-33-180620

Tgt Ion: 43 Resp: 1649

Ion Ratio Lower Upper

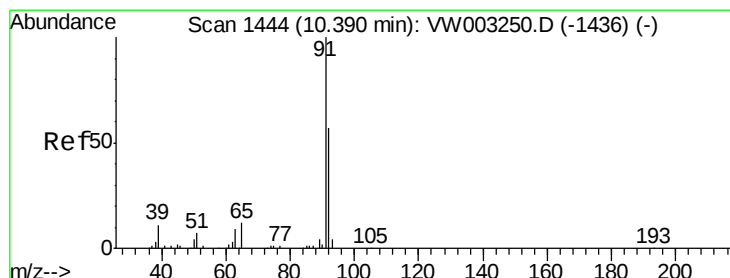
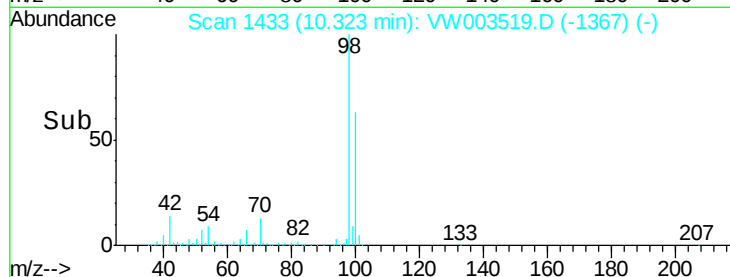
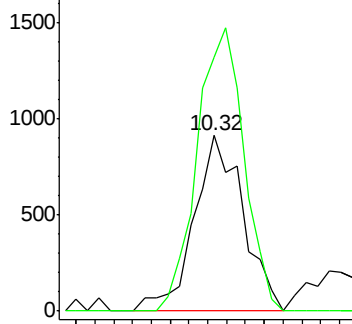
43 100

58 153.5 29.0 43.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 4.445 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW003519.D

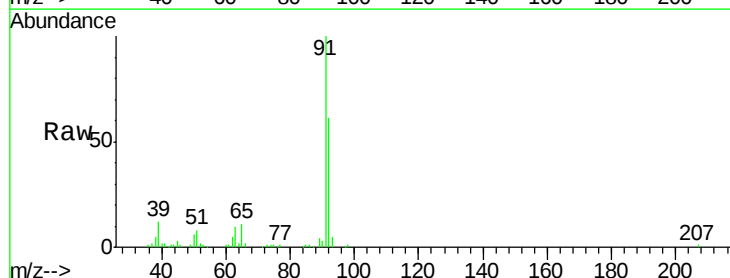
Acq: 24 Jun 2018 18:57

Tgt Ion: 92 Resp: 20009

Ion Ratio Lower Upper

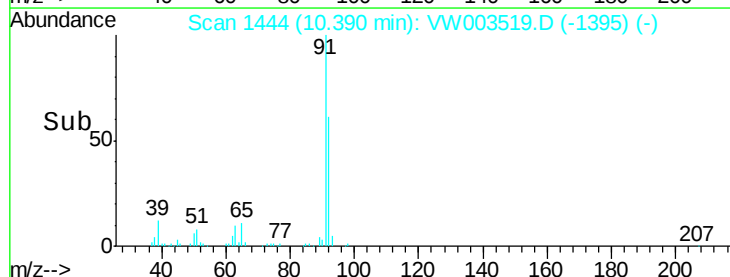
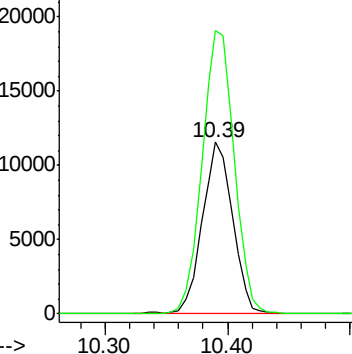
92 100

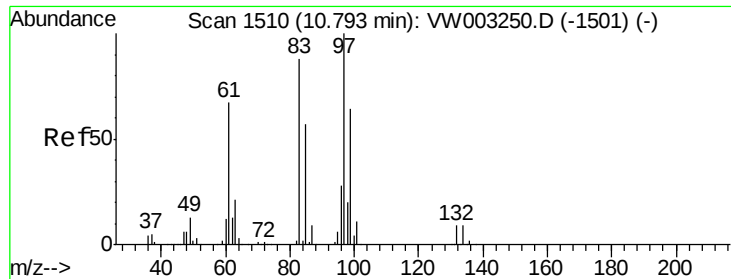
91 173.7 141.1 211.7



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

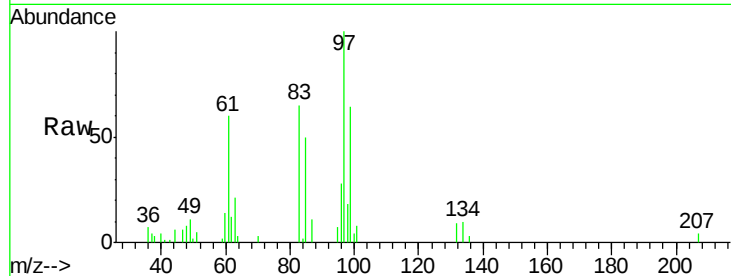




#55
 1,1,2-Trichloroethane
 Concen: 5.194 ug/l
 RT: 10.79 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB475-31-33-180620

Tgt Ion:	97	Resp:	6697
Ion	Ratio	Lower	Upper
97	100		
83	64.8	70.2	105.2#
85	49.8	45.6	68.4
99	63.6	51.2	76.8



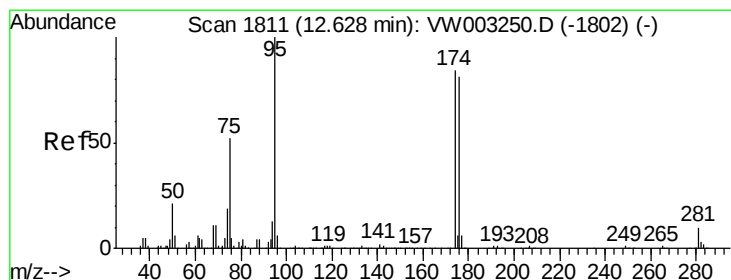
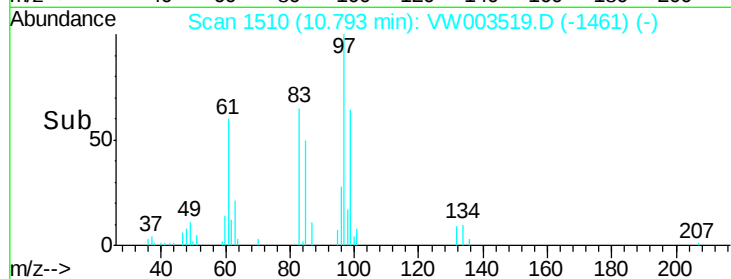
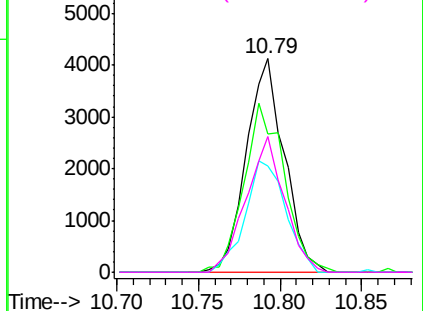
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

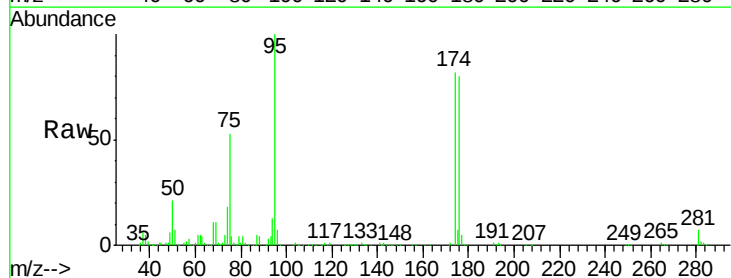
Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#62
 4-Bromofluorobenzene
 Concen: 46.025 ug/l
 RT: 12.63 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

Tgt Ion:	95	Resp:	105829
Ion	Ratio	Lower	Upper
95	100		
174	81.8	0.0	166.4
176	78.7	0.0	162.0

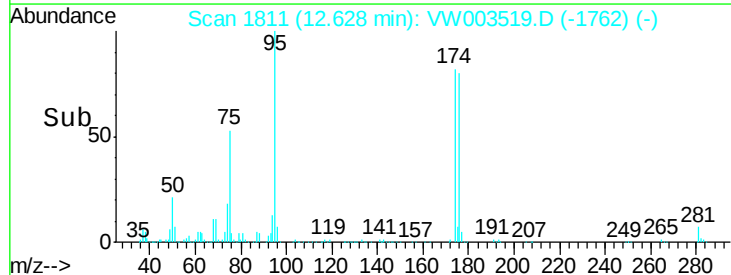
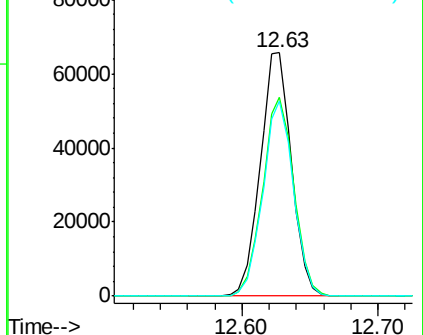


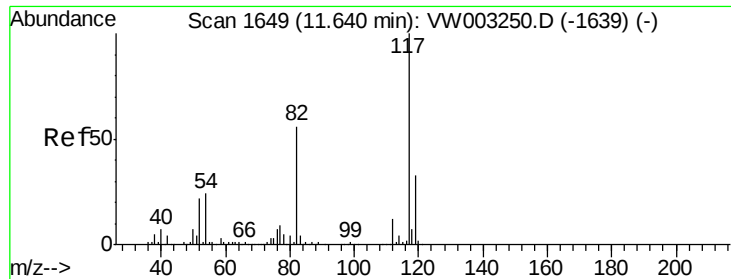
Abundance

Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

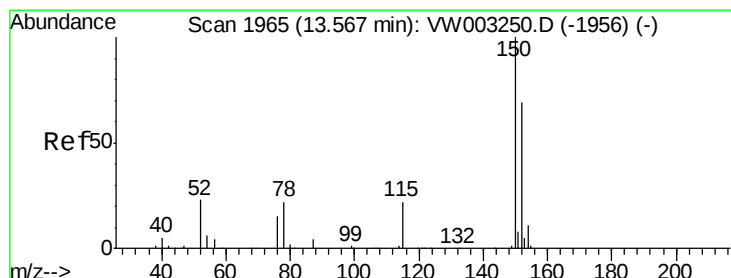
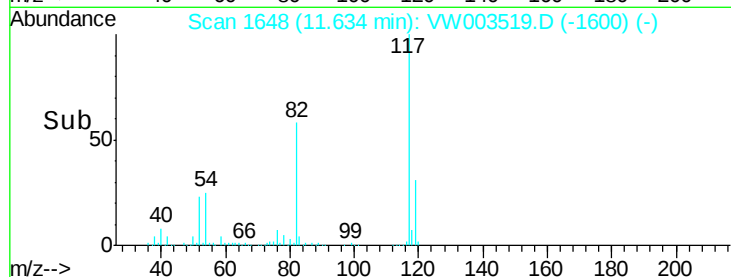
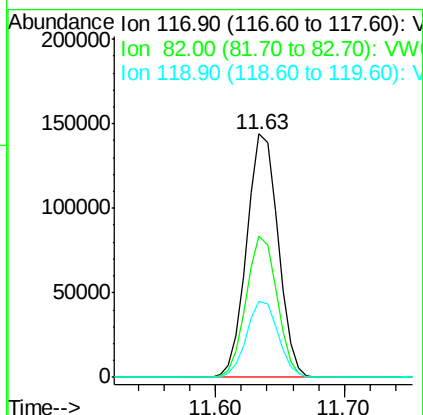
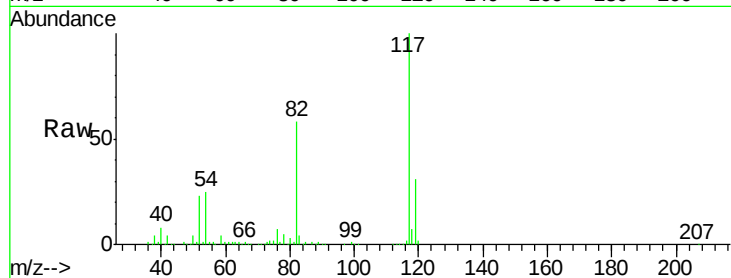




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.01 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

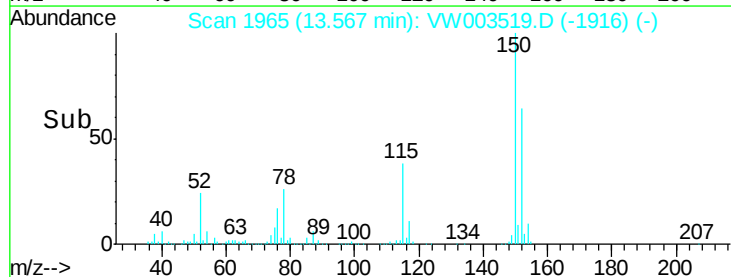
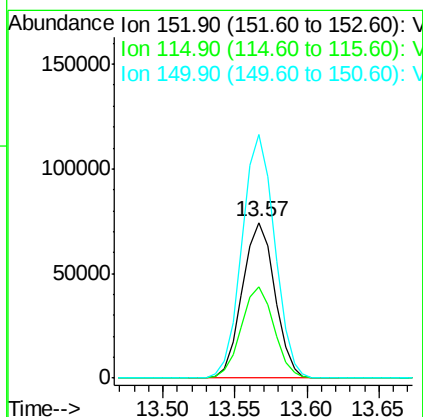
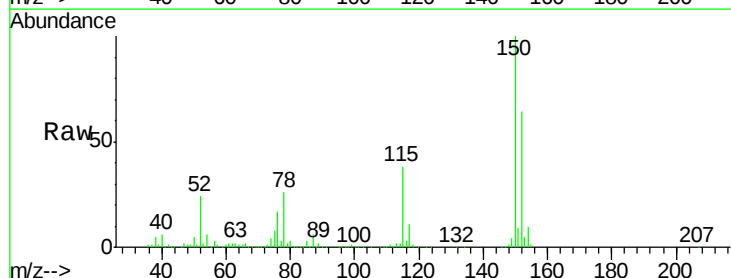
Instrument :
MSVOA_W
ClientSampleId :
WP021SB475-31-33-180620

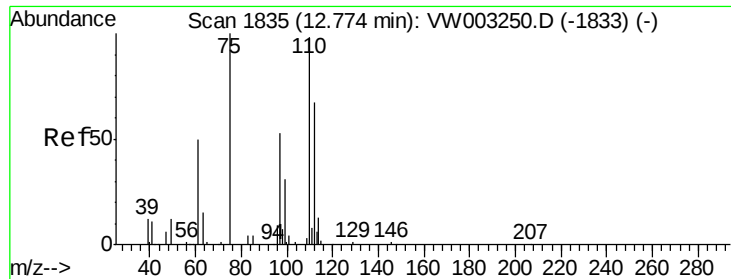
Tgt Ion:117 Resp: 242044
Ion Ratio Lower Upper
117 100
82 57.8 44.6 67.0
119 31.2 26.7 40.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW003519.D
Acq: 24 Jun 2018 18:57

Tgt Ion:152 Resp: 116840
Ion Ratio Lower Upper
152 100
115 59.0 29.3 88.0
150 157.0 0.0 349.6

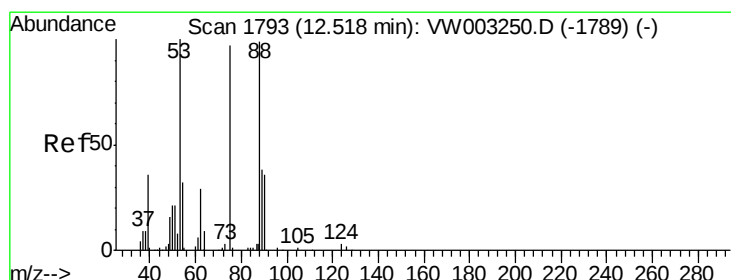
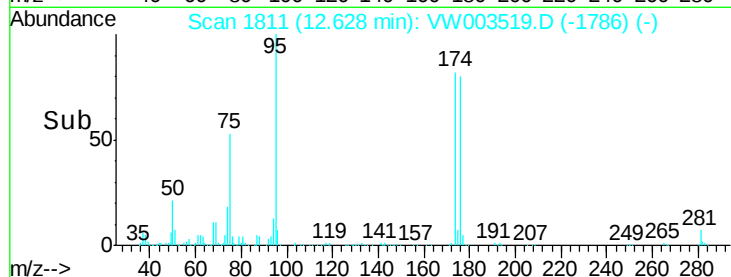
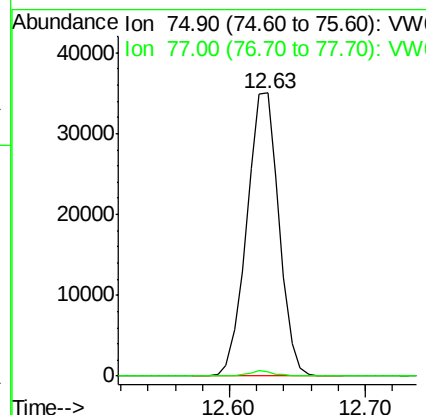
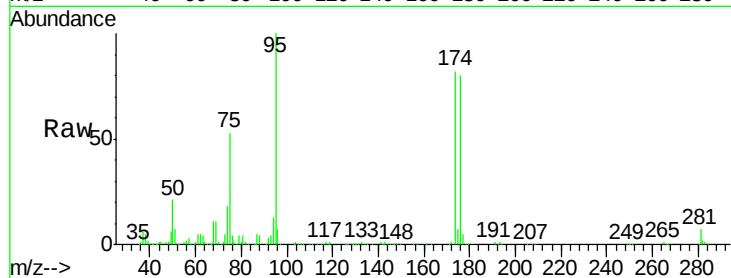




#76
 1,2,3-Trichloropropane
 Concen: 58.059 ug/l
 RT: 12.63 min Scan# 1811
 Delta R.T. -0.15 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

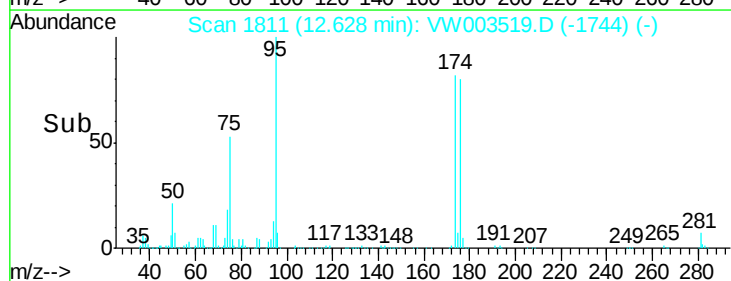
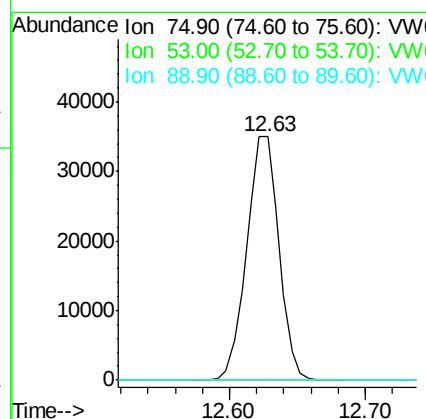
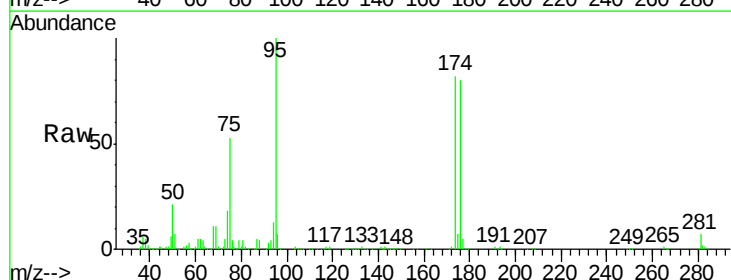
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB475-31-33-180620

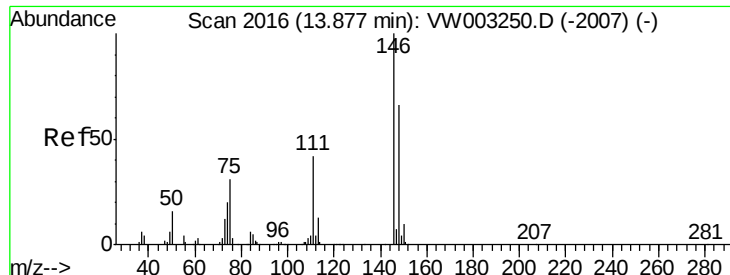
Tgt Ion: 75 Resp: 57992
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 133.597 ug/l
 RT: 12.63 min Scan# 1811
 Delta R.T. 0.11 min
 Lab File: VW003519.D
 Acq: 24 Jun 2018 18:57

Tgt Ion: 75 Resp: 57992
 Ion Ratio Lower Upper
 75 100
 53 0.3 82.9 124.3#
 89 0.0 36.7 55.1#





#91

1,2-Dichlorobenzene

Concen: 1.712 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW003519.D

Acq: 24 Jun 2018 18:57

Instrument :

MSVOA_W

ClientSampleId :

WP021SB475-31-33-180620

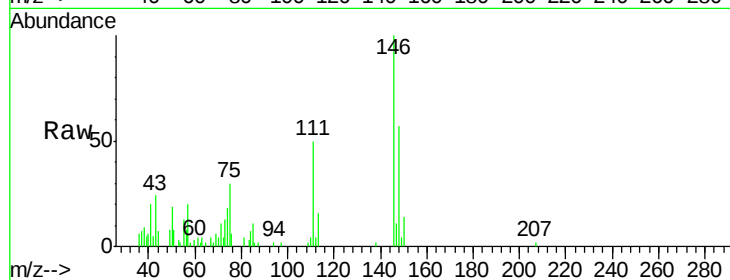
Tgt Ion:146 Resp: 5829

Ion Ratio Lower Upper

146 100

111 46.1 20.3 61.0

148 62.5 32.3 96.9



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

