

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121718\
 Data File : VW007536.D
 Acq On : 14 Dec 2018 15:33
 Operator : SY/AP
 Sample : J6370-01RE
 Misc : 6.89G/5ML/MSVOA_W/SOIL
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S32-0634

Quant Time: Dec 15 00:42:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	41122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	69149	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	63289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	29766	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	24472	53.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.28%	
35) Dibromofluoromethane	7.88	113	21883	52.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.56%	
50) Toluene-d8	10.32	98	81564	51.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.62	95	29610	51.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.62%	

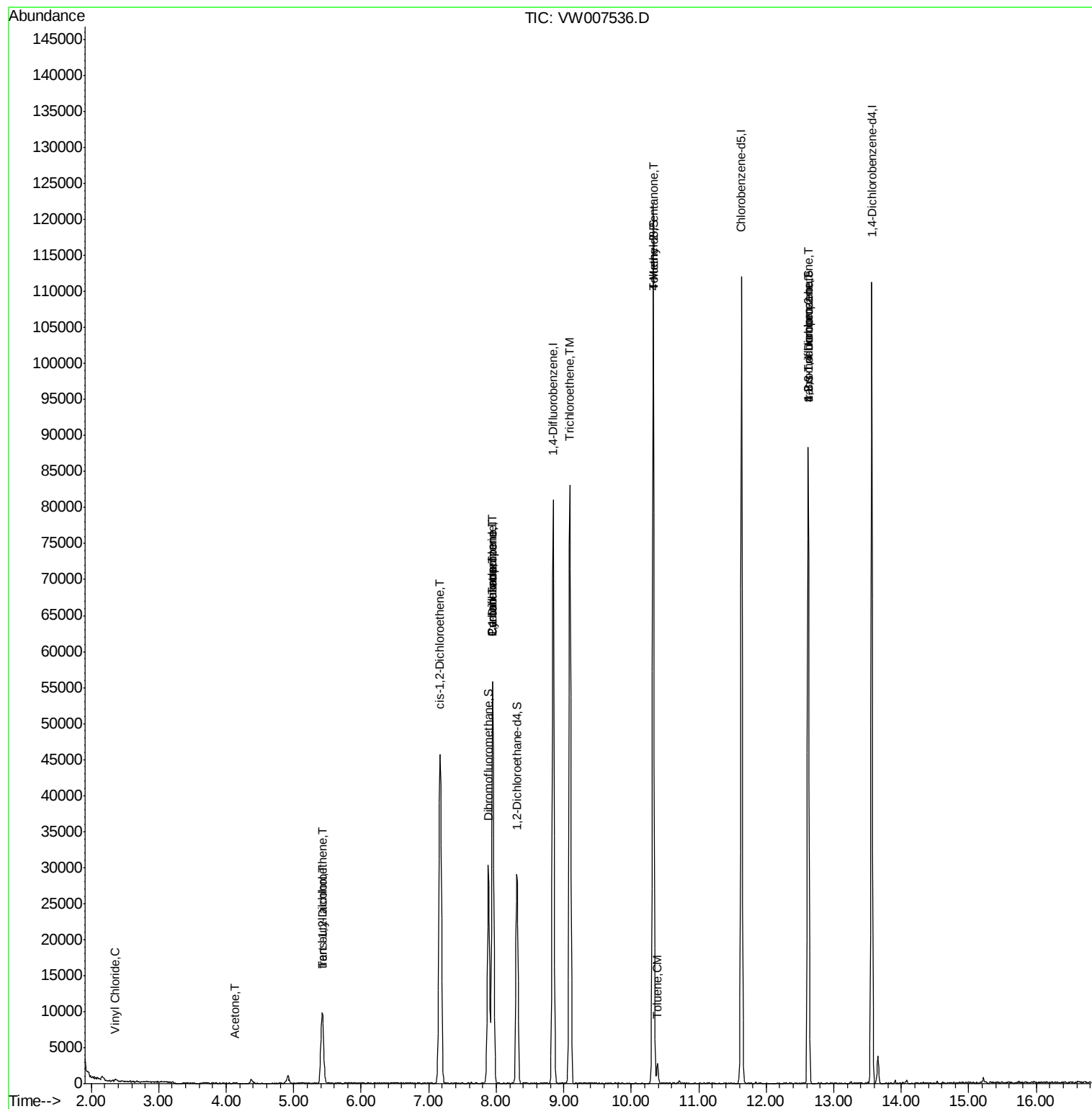
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.36	62	352	1.246	ug/l #	44
11) Tert butyl alcohol	5.43	59	200	6.383	ug/l #	74
16) Acetone	4.12	43	92	1.155	ug/l #	44
20) Methylene Chloride	4.91	84	764	Below Cal	#	72
21) trans-1,2-Dichloroethene	5.42	96	6195	13.728	ug/l	90
27) cis-1,2-Dichloroethene	7.17	96	27799	56.261	ug/l	94
31) Cyclohexane	7.95	56	953	1.345	ug/l #	31
36) 1,1-Dichloropropene	7.95	75	3283	5.204	ug/l #	48
38) Carbon Tetrachloride	7.95	117	4434	6.460	ug/l #	16
44) Trichloroethene	9.09	130	29360	58.732	ug/l	100
51) 4-Methyl-2-Pentanone	10.33	43	335	1.530	ug/l #	1
52) Toluene	10.39	92	1455	1.284	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	14985	61.056	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	14985	134.874	ug/l #	7

(#) = 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# 991

Delta R.T. -0.01 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

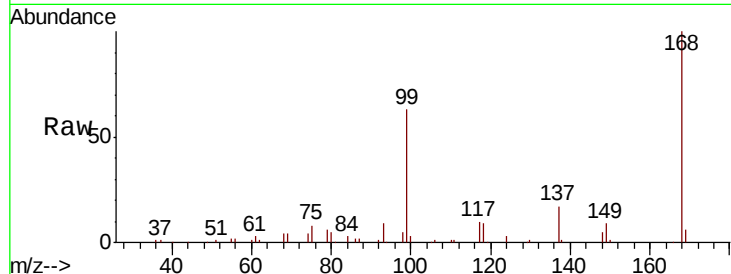
S32-0634

Tgt Ion: 168 Resp: 41122

Ion Ratio Lower Upper

168 100

99 62.9 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

20000

15000

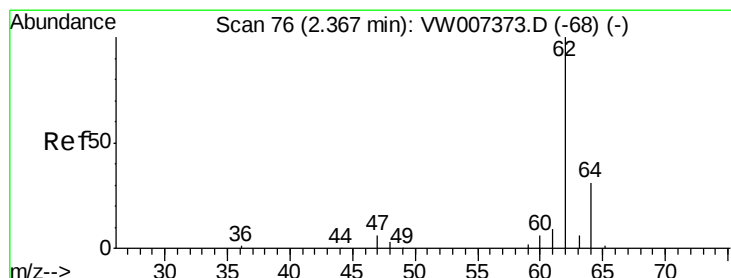
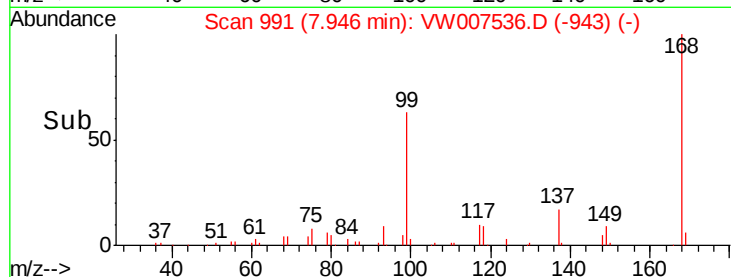
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#4

Vinyl Chloride

Concen: 1.246 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW007536.D

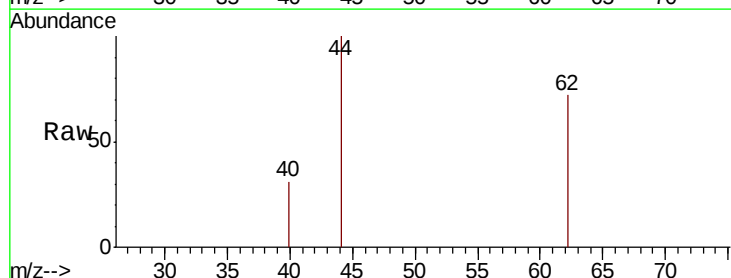
Acq: 14 Dec 2018 15:33

Tgt Ion: 62 Resp: 352

Ion Ratio Lower Upper

62 100

64 0.0 24.6 37.0#



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

200

150

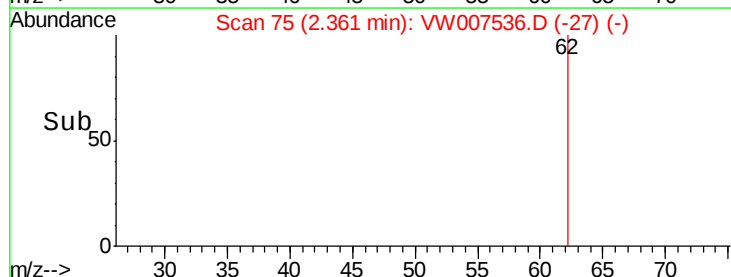
100

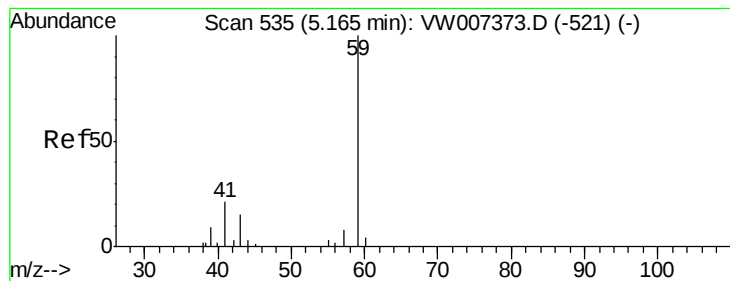
50

0

2.30 2.35 2.40

Time-->





#11

Tert butyl alcohol

Concen: 6.383 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.26 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

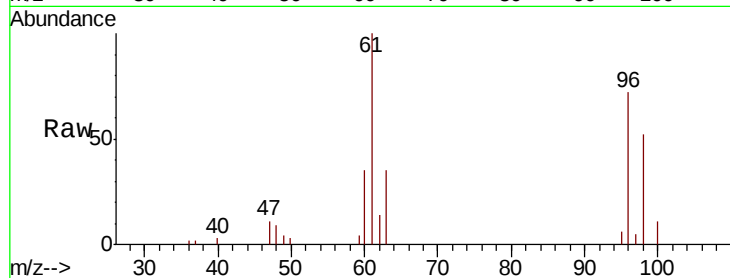
S32-0634

Tgt Ion: 59 Resp: 200

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.43

100

80

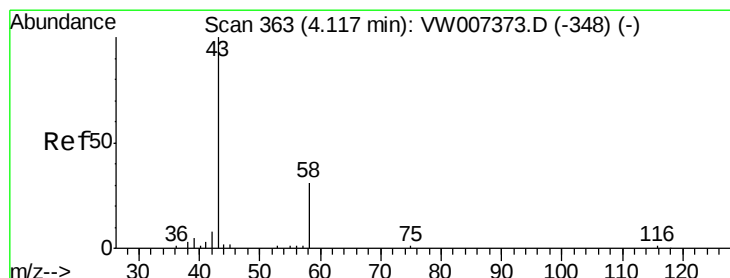
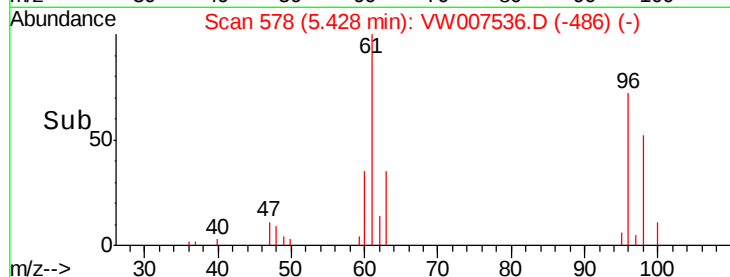
60

40

20

0

Time--> 5.38 5.40 5.42 5.44



#16

Acetone

Concen: 1.155 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007536.D

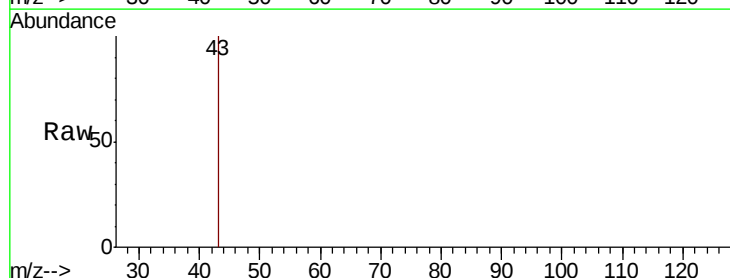
Acq: 14 Dec 2018 15:33

Tgt Ion: 43 Resp: 92

Ion Ratio Lower Upper

43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

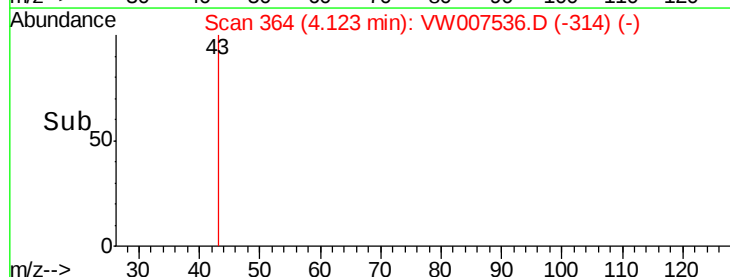
4.12

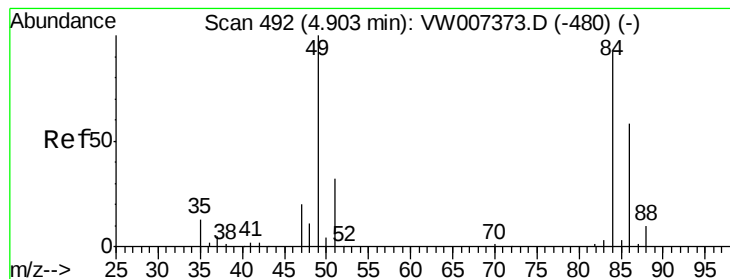
100

50

0

Time--> 4.10 4.12 4.14





#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. 0.01 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampled :

S32-0634

Tgt Ion: 84 Resp: 764

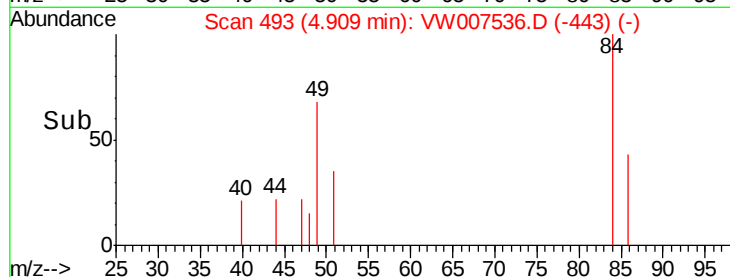
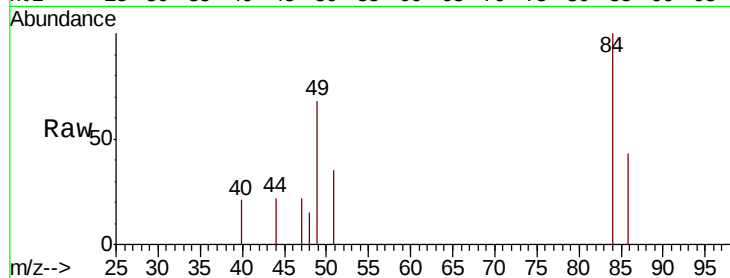
Ion Ratio Lower Upper

84 100

49 68.3 87.1 130.7#

51 35.5 28.2 42.2

86 43.4 50.8 76.2#



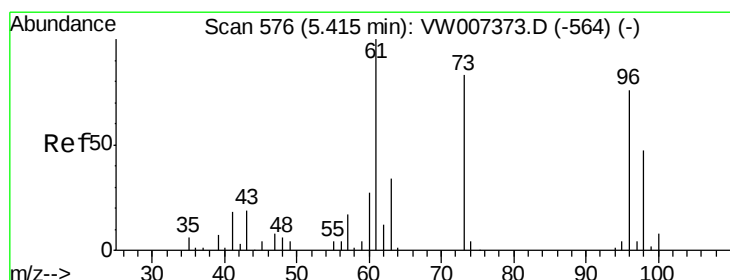
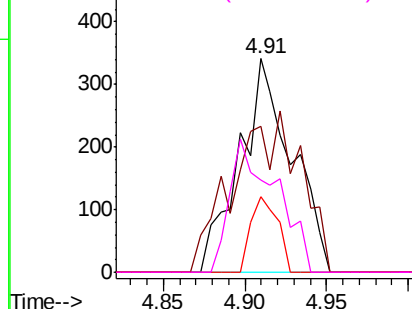
Abundance

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: 13.728 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

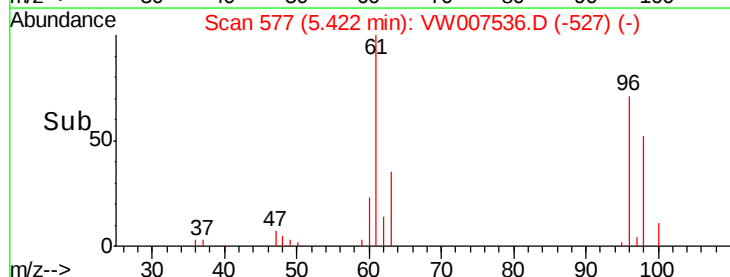
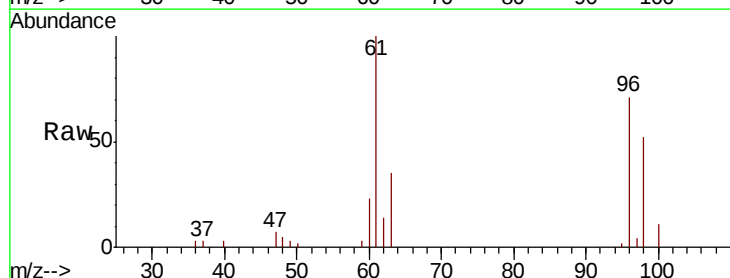
Tgt Ion: 96 Resp: 6195

Ion Ratio Lower Upper

96 100

61 140.7 105.0 157.6

98 73.0 49.7 74.5

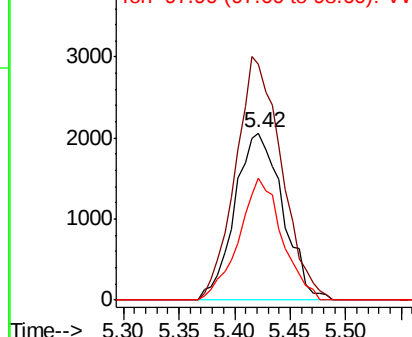


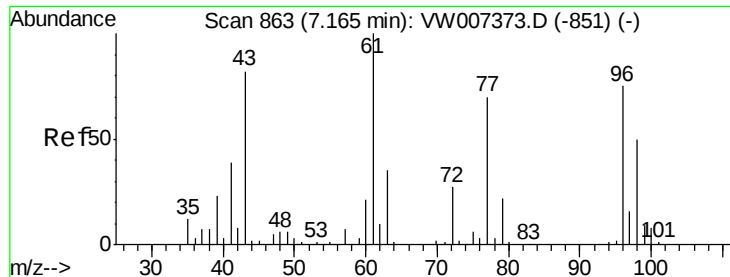
Abundance

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

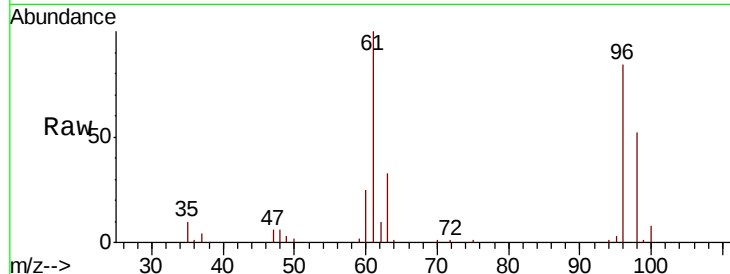




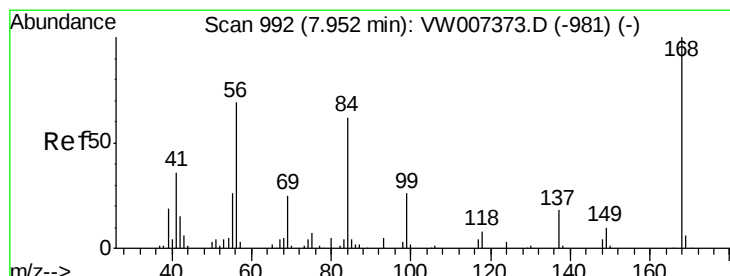
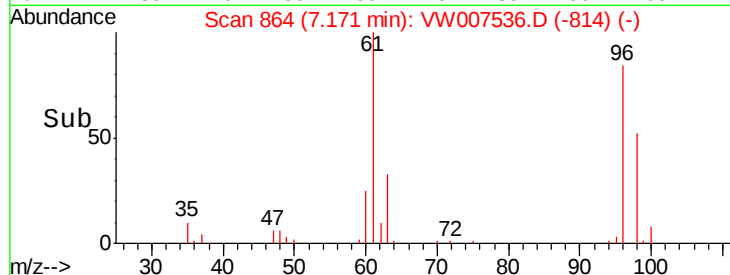
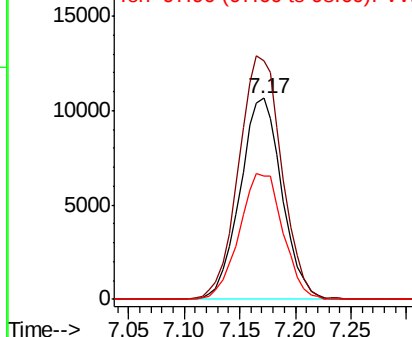
#27
 cis-1,2-Dichloroethene
 Concen: 56.261 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW007536.D
 Acq: 14 Dec 2018 15:33

Instrument :
 MSVOA_W
 ClientSampleId :
 S32-0634

Tgt Ion: 96 Resp: 27799
 Ion Ratio Lower Upper
 96 100
 61 124.7 0.0 268.4
 98 65.0 0.0 127.8

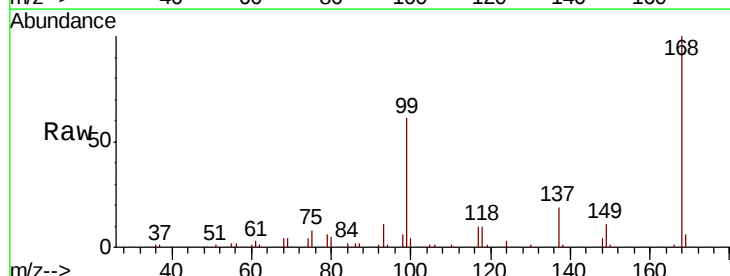


Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW

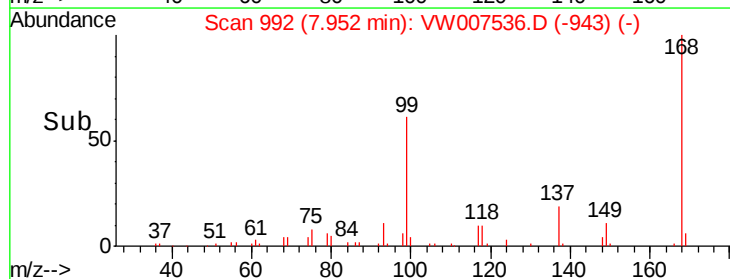
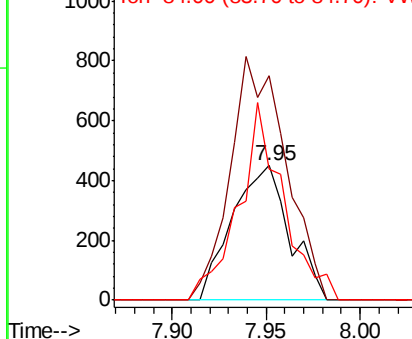


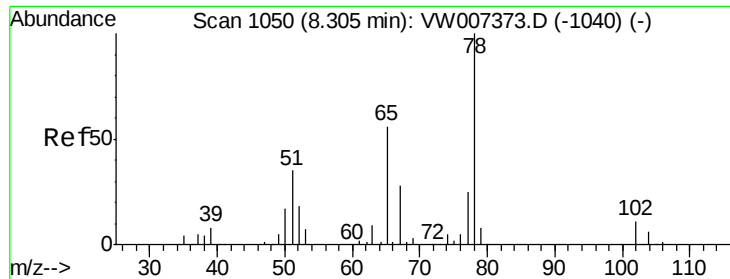
#31
 Cyclohexane
 Concen: 1.345 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VW007536.D
 Acq: 14 Dec 2018 15:33

Tgt Ion: 56 Resp: 953
 Ion Ratio Lower Upper
 56 100
 69 166.4 28.9 43.3#
 84 97.6 71.8 107.6



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

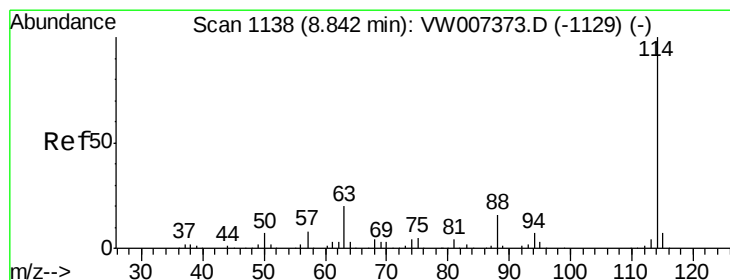
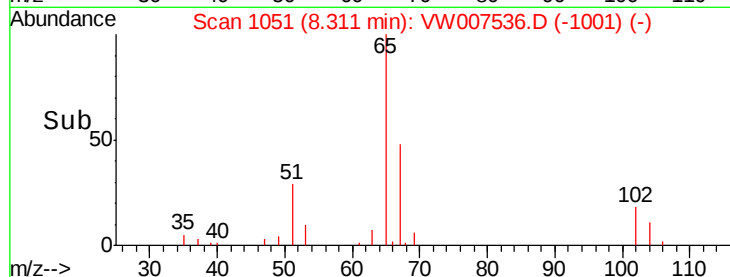
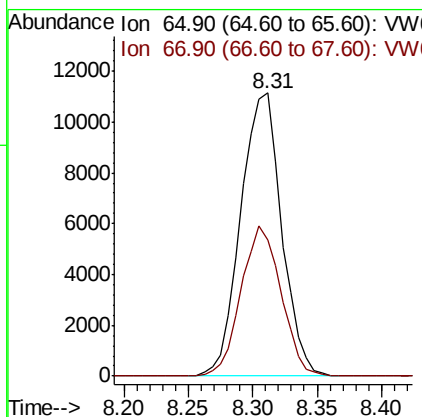
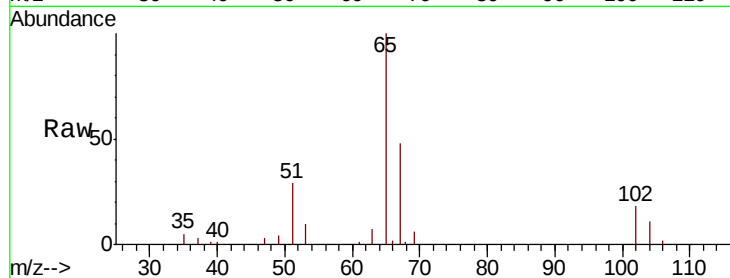




#33
 1,2-Dichloroethane-d4
 Concen: 53.641 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VW007536.D
 Acq: 14 Dec 2018 15:33

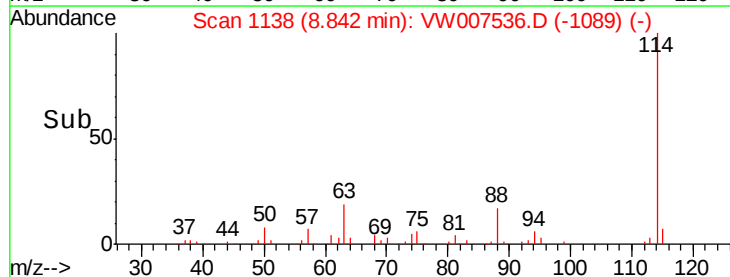
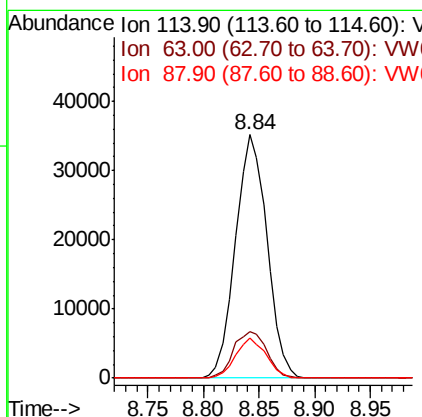
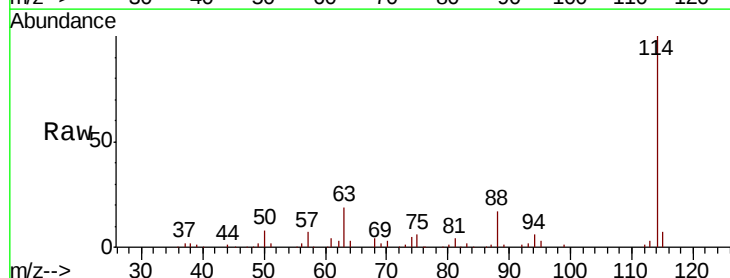
Instrument :
 MSVOA_W
 ClientSampleId :
 S32-0634

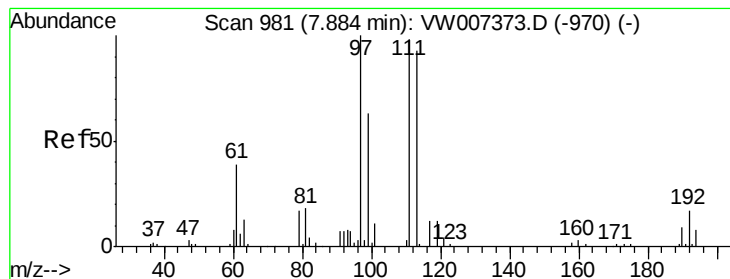
Tgt Ion: 65 Resp: 24472
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW007536.D
 Acq: 14 Dec 2018 15:33

Tgt Ion: 114 Resp: 69149
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.6
 88 16.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.278 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

S32-0634

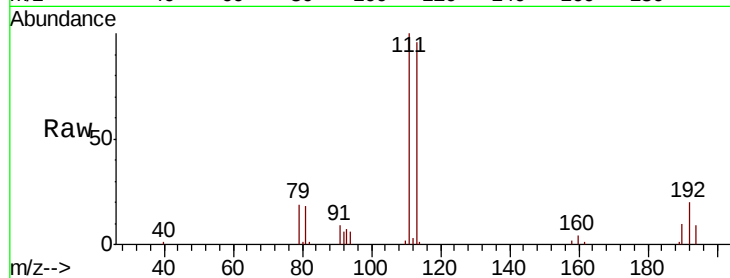
Tgt Ion:113 Resp: 21883

Ion Ratio Lower Upper

113 100

111 100.3 81.1 121.7

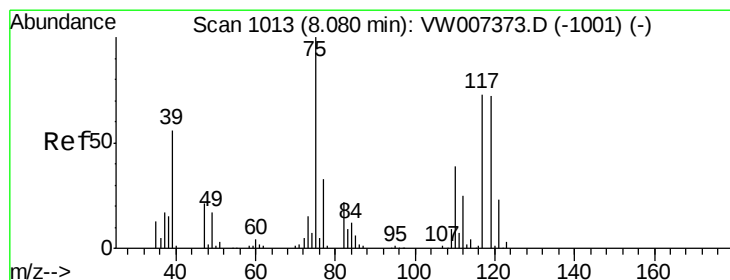
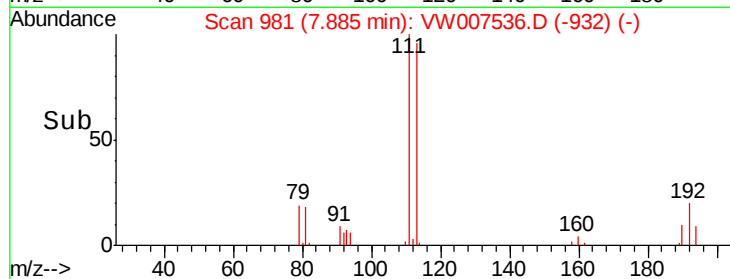
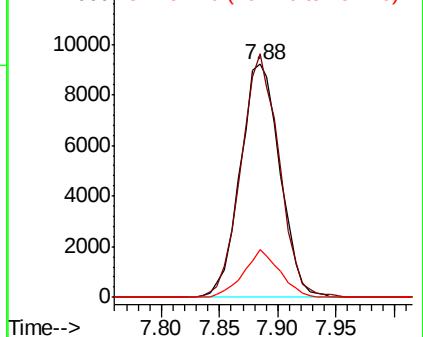
192 18.5 14.6 21.8



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: 5.204 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

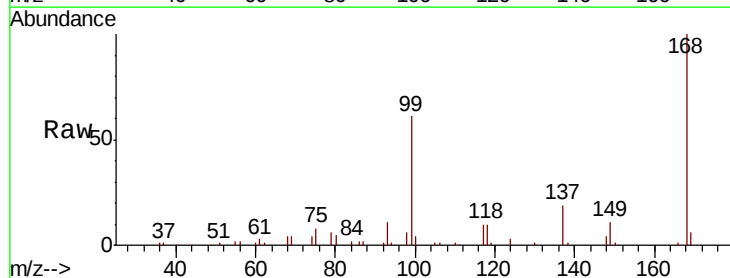
Tgt Ion: 75 Resp: 3283

Ion Ratio Lower Upper

75 100

110 9.3 18.5 55.5#

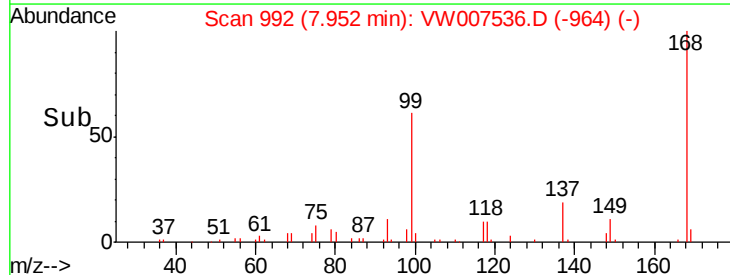
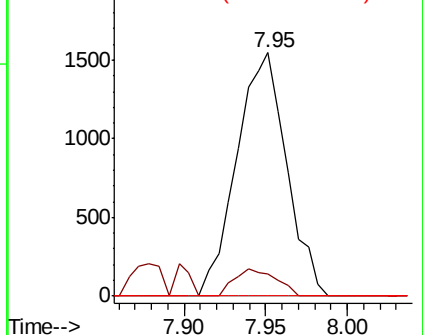
77 0.0 25.6 38.4#

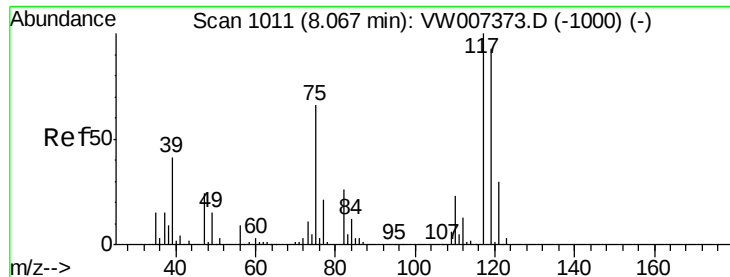


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.460 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

S32-0634

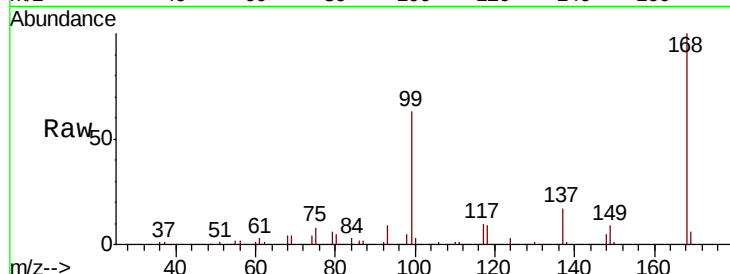
Tgt Ion:117 Resp: 4434

Ion Ratio Lower Upper

117 100

119 3.2 74.3 111.5#

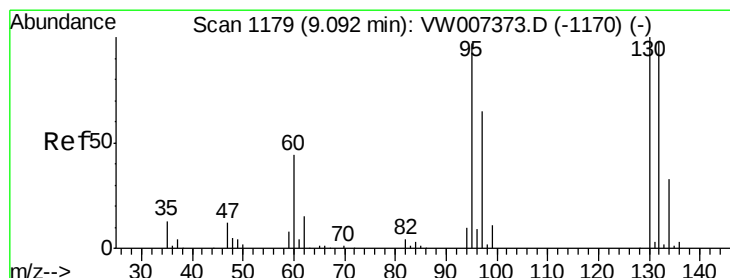
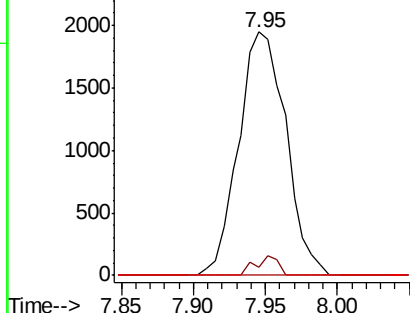
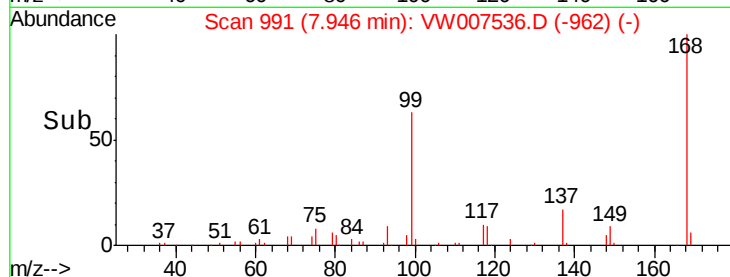
121 0.0 24.3 36.5#



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: 58.732 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW007536.D

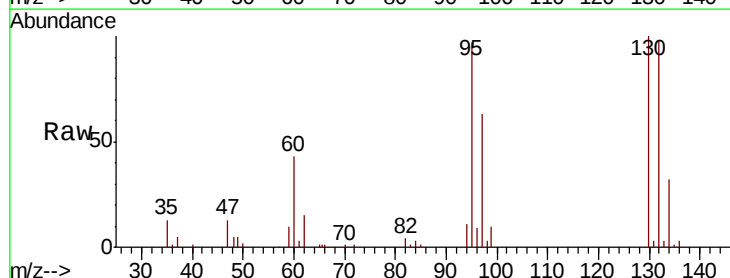
Acq: 14 Dec 2018 15:33

Tgt Ion:130 Resp: 29360

Ion Ratio Lower Upper

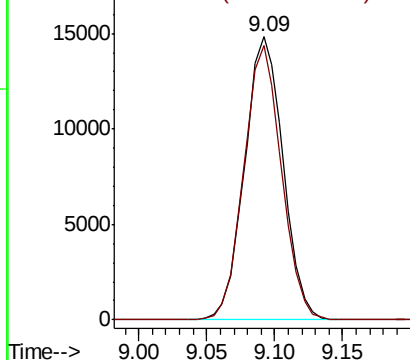
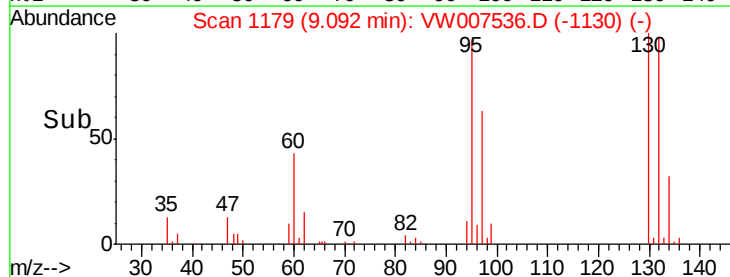
130 100

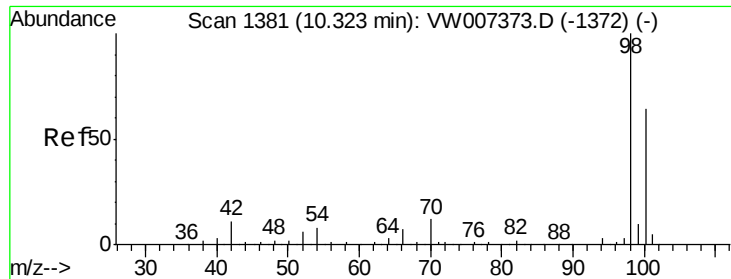
95 97.1 0.0 193.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VV





#50

Toluene-d8

Concen: 51.969 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

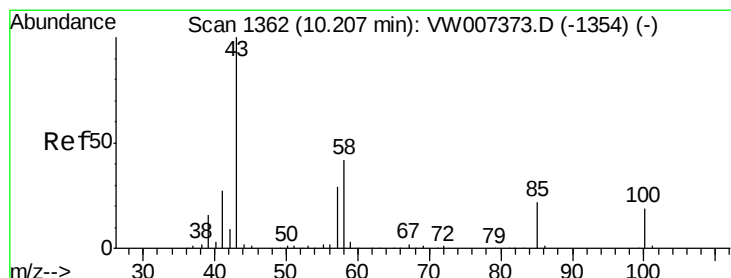
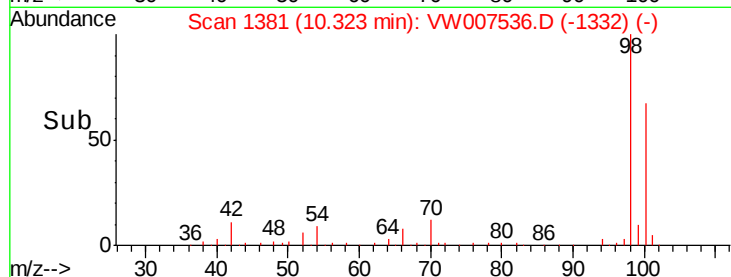
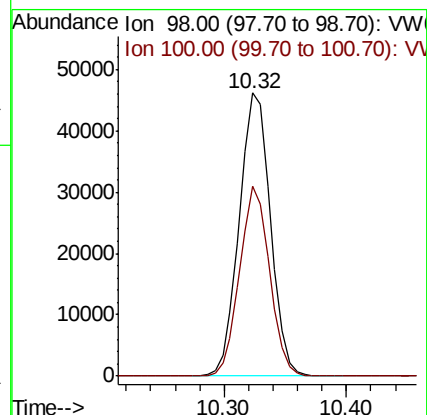
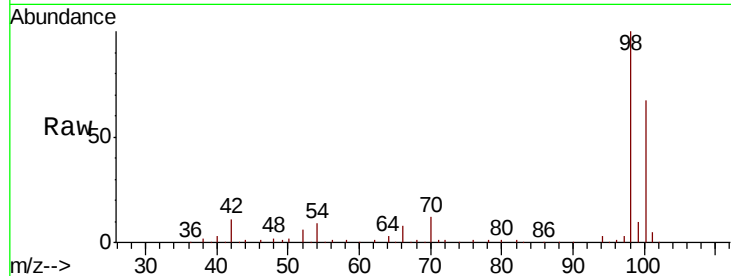
S32-0634

Tgt Ion: 98 Resp: 81564

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.530 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.12 min

Lab File: VW007536.D

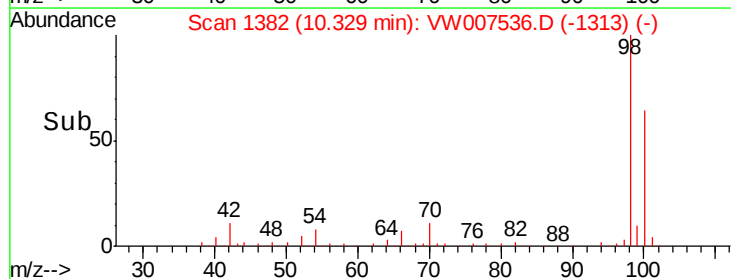
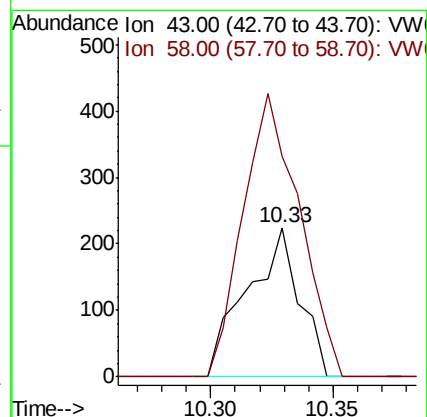
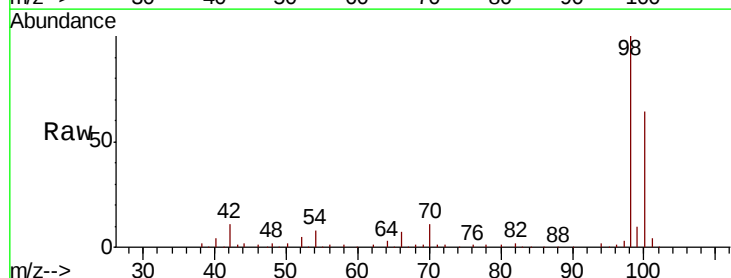
Acq: 14 Dec 2018 15:33

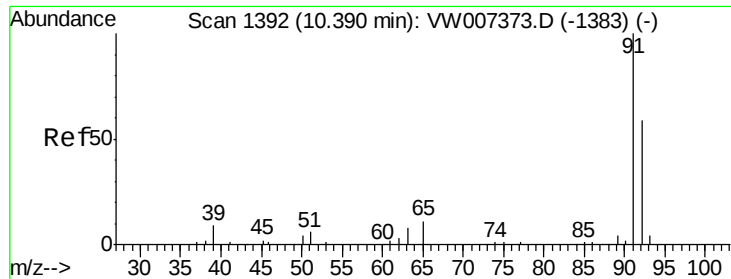
Tgt Ion: 43 Resp: 335

Ion Ratio Lower Upper

43 100

58 203.6 33.1 49.7#





#52

Toluene

Concen: 1.284 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampled :

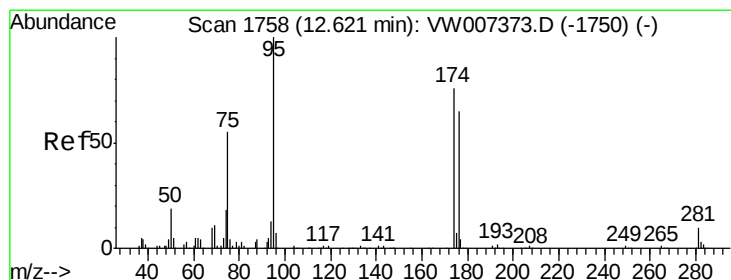
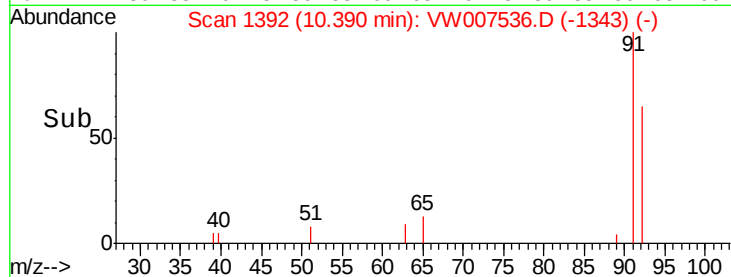
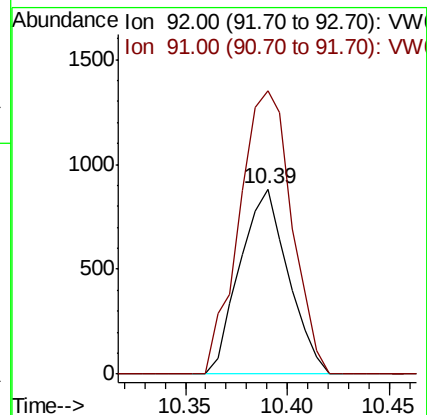
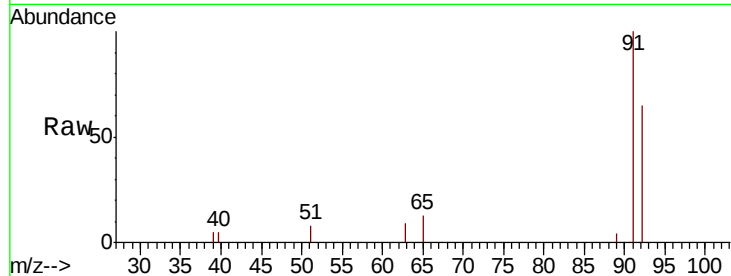
S32-0634

Tgt Ion: 92 Resp: 1455

Ion Ratio Lower Upper

92 100

91 165.9 136.2 204.2



#62

4-Bromofluorobenzene

Concen: 51.313 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

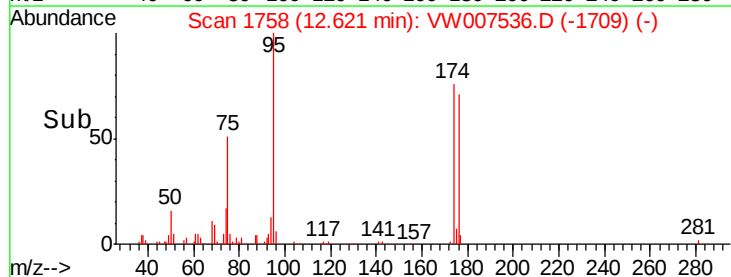
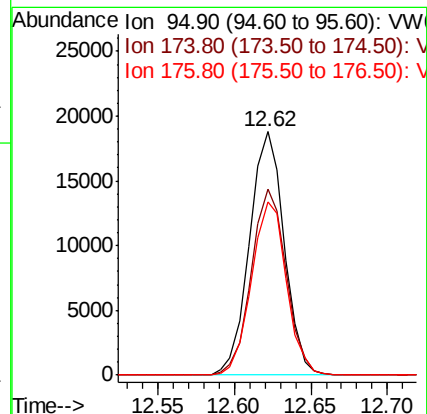
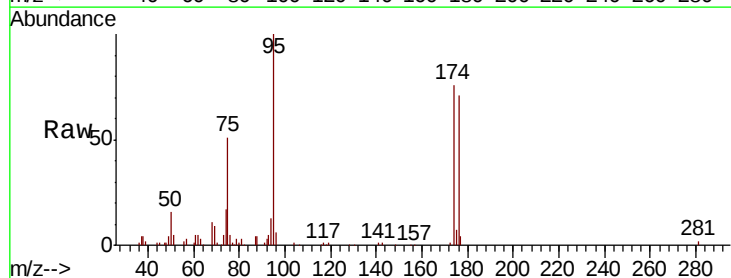
Tgt Ion: 95 Resp: 29610

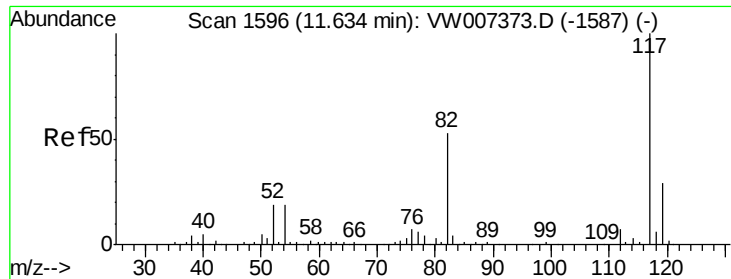
Ion Ratio Lower Upper

95 100

174 77.1 0.0 147.2

176 71.9 0.0 138.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

S32-0634

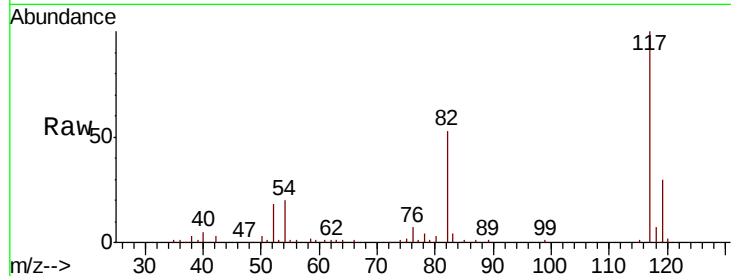
Tgt Ion:117 Resp: 63289

Ion Ratio Lower Upper

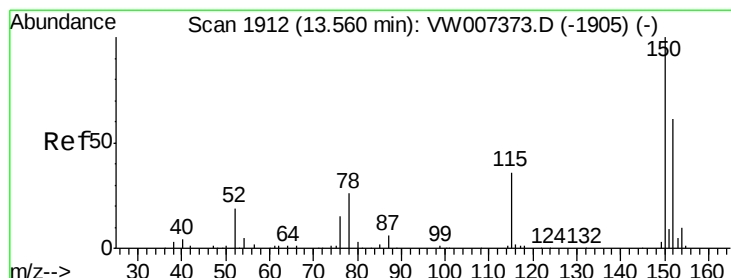
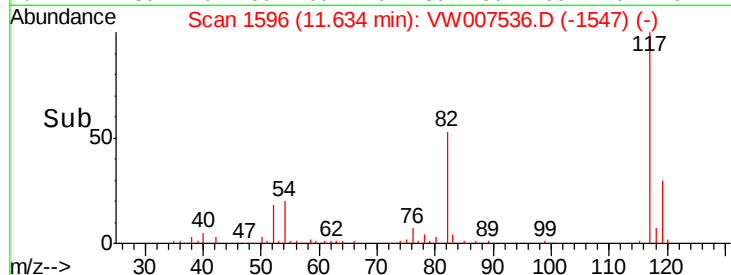
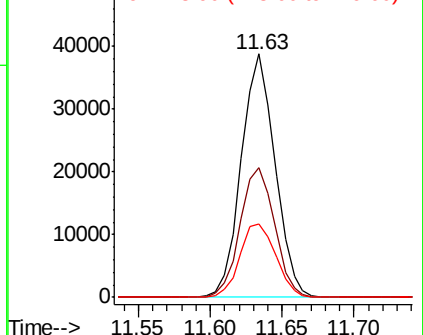
117 100

82 53.3 42.3 63.5

119 30.3 23.0 34.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

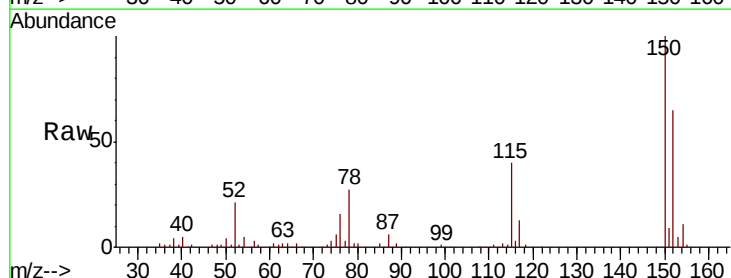
Tgt Ion:152 Resp: 29766

Ion Ratio Lower Upper

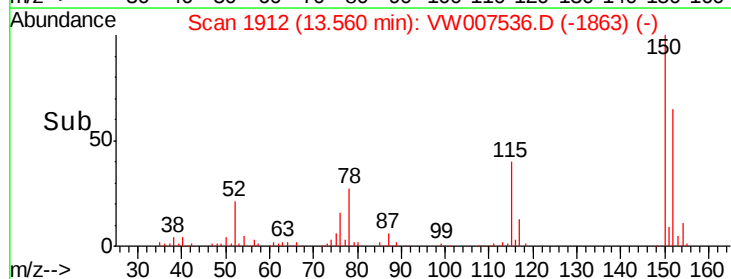
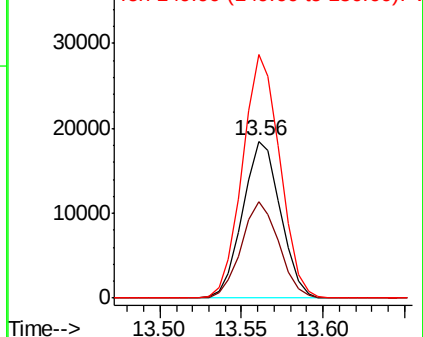
152 100

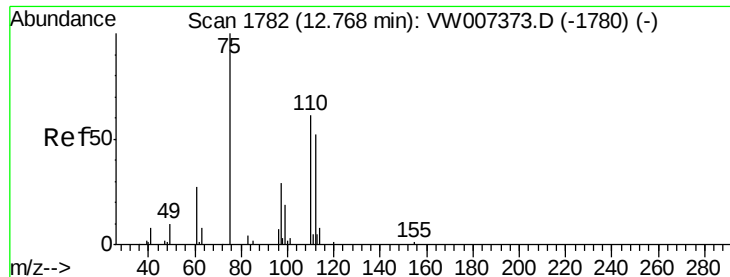
115 61.0 31.4 94.2

150 153.3 0.0 358.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 61.056 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA_W

ClientSampleId :

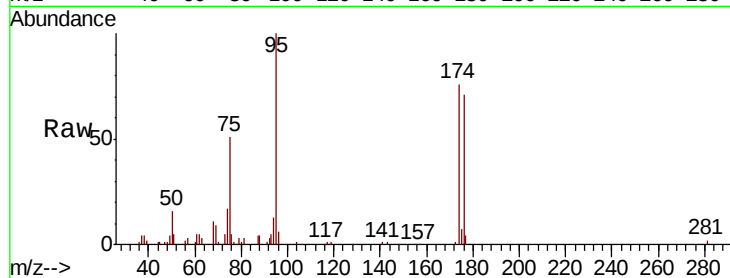
S32-0634

Tgt Ion: 75 Resp: 14985

Ion Ratio Lower Upper

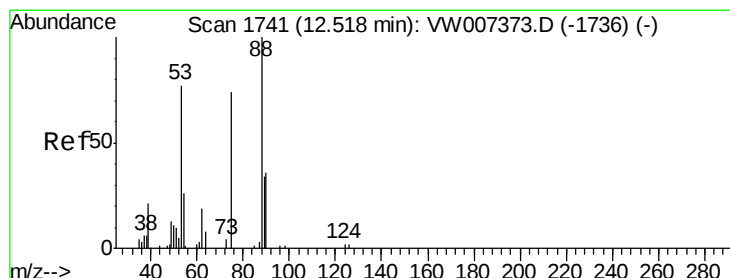
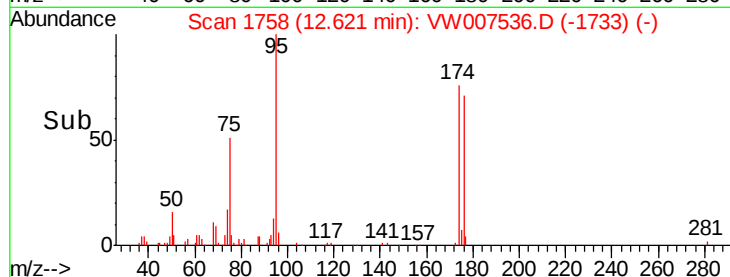
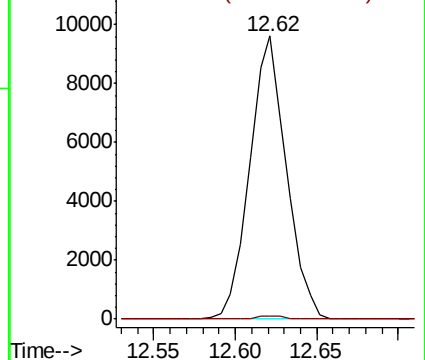
75 100

77 0.8 166.9 500.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 134.874 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

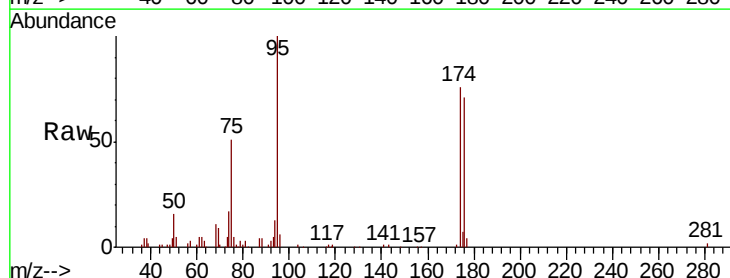
Tgt Ion: 75 Resp: 14985

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

