

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060058.D
 Acq On : 11 Feb 2020 12:25
 Operator : JC/MD
 Sample : L1367-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:22:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	301071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	275979	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117774	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	112002	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	7.57	113	91377	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
50) Toluene-d8	10.08	98	362780	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
62) 4-Bromofluorobenzene	12.40	95	126049	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	

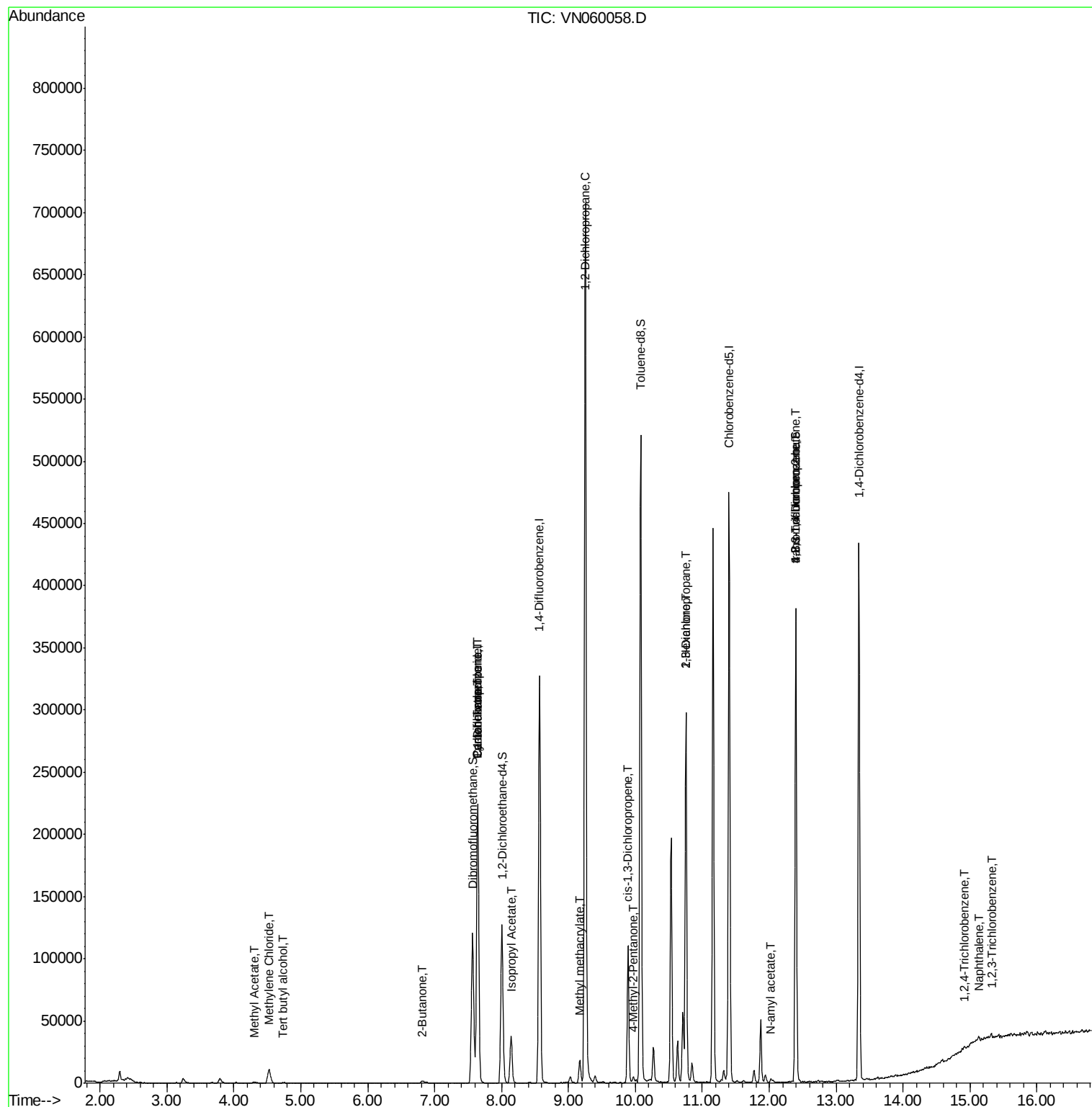
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	608	1.708	ug/l #	72
16) Acetone	3.79	43	6781	Below Cal		99
18) Methyl Acetate	4.31	43	1297	0.525	ug/l #	59
20) Methylene Chloride	4.53	84	8691	3.335	ug/l	92
25) 2-Butanone	6.81	43	1433	1.197	ug/l	95
31) Cyclohexane	7.65	56	3945	1.261	ug/l #	11
36) 1,1-Dichloropropene	7.64	75	13565	5.174	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18697	6.556	ug/l #	16
43) Isopropyl Acetate	8.14	43	44756	10.581	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	878	0.454	ug/l #	44
48) Methyl methacrylate	9.16	41	2689	1.421	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3115	1.274	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	20698	6.405	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3334	1.074	ug/l #	42
59) 2-Hexanone	10.75	43	45323	25.162	ug/l #	56
74) N-amyl acetate	12.03	43	2482	0.741	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	65421	33.007	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65421	70.883	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	30	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	728	0.323	ug/l	86
95) Naphthalene	15.13	128	2791	0.435	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	799	0.364	ug/l	96

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

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Instrument :
MSVOA_N
ClientSampled :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

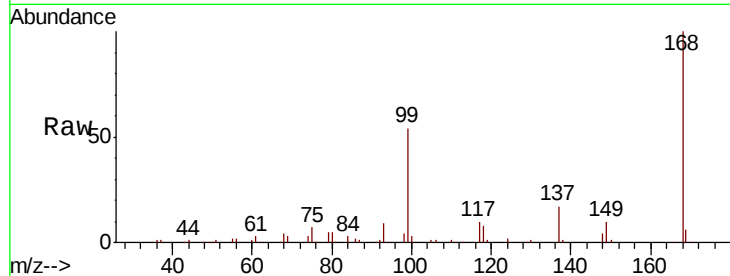
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 190405

Ion Ratio Lower Upper

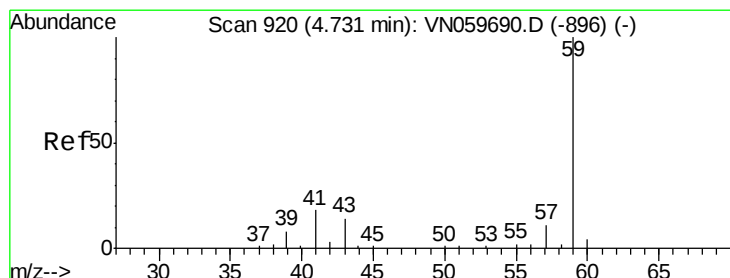
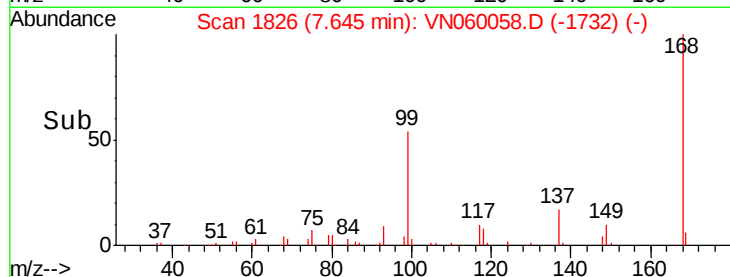
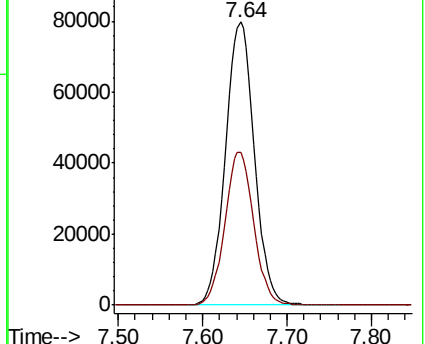
168 100

99 53.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 1.708 ug/l

RT: 4.74 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN060058.D

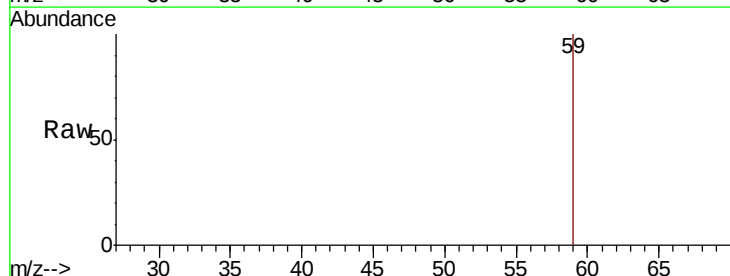
Acq: 11 Feb 2020 12:25

Tgt Ion: 59 Resp: 608

Ion Ratio Lower Upper

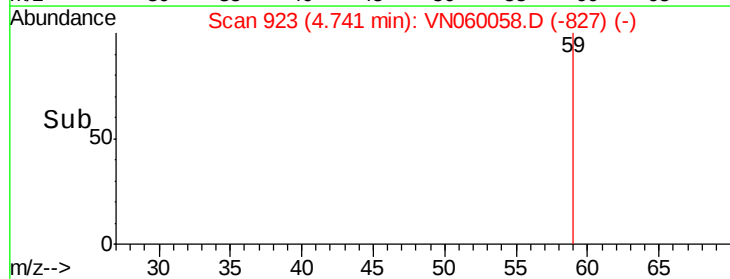
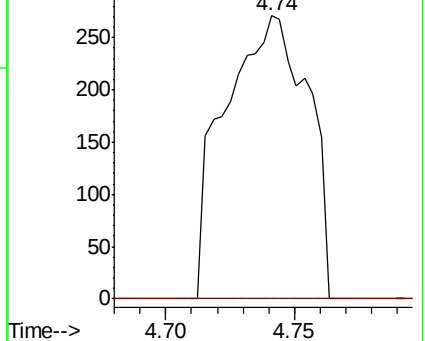
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

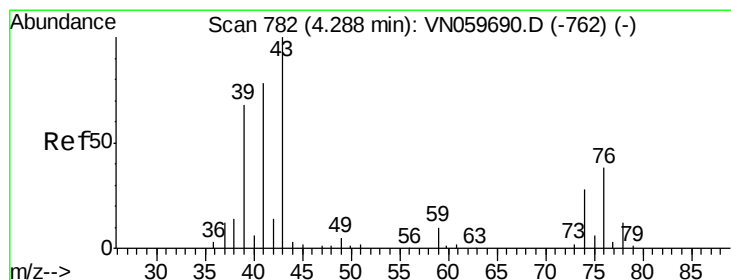
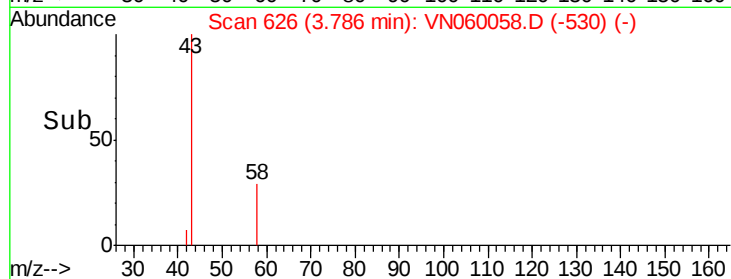
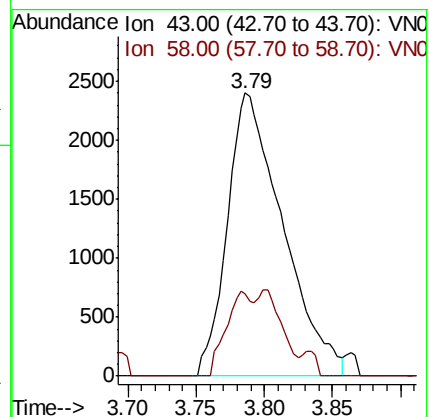
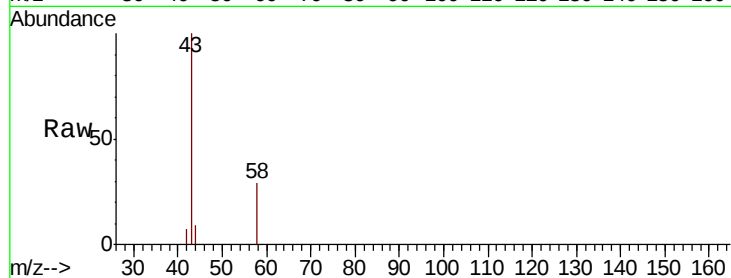
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 6781

Ion Ratio Lower Upper

43 100

58 28.9 23.6 35.4



#18

Methyl Acetate

Concen: 0.525 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.02 min

Lab File: VN060058.D

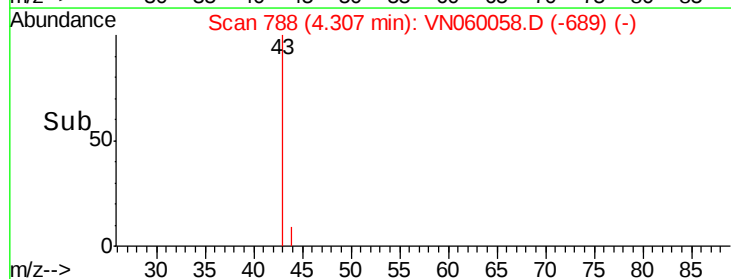
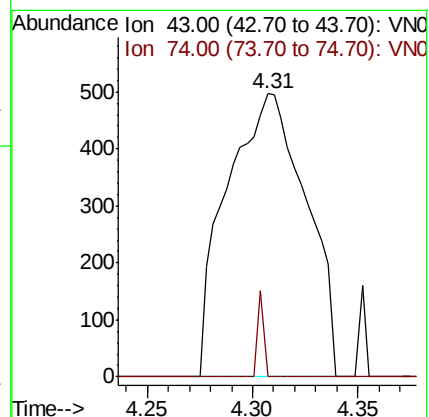
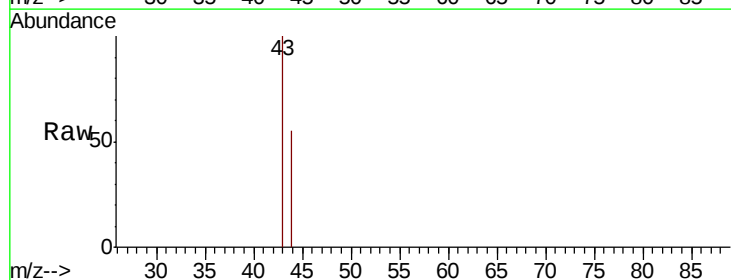
Acq: 11 Feb 2020 12:25

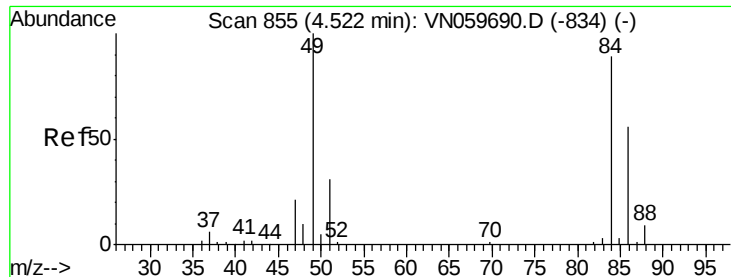
Tgt Ion: 43 Resp: 1297

Ion Ratio Lower Upper

43 100

74 2.2 17.5 26.3#

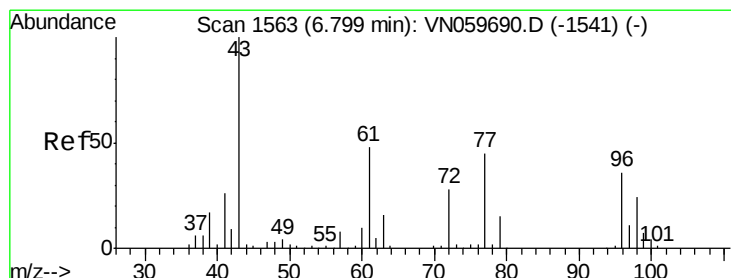
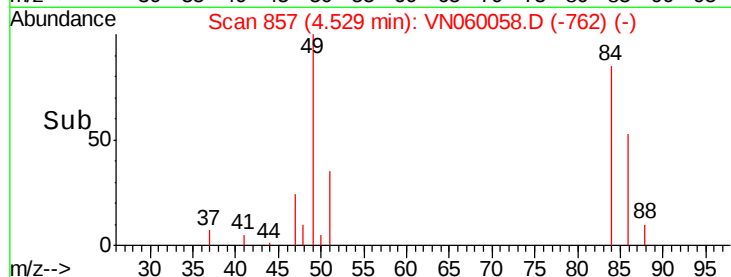
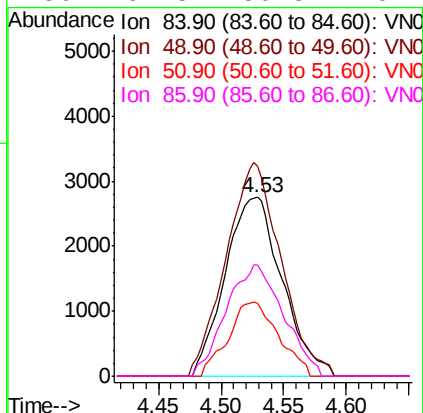
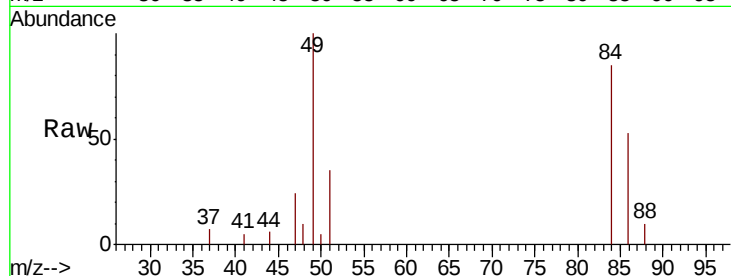




#20
Methvlene Chloride
Concen: 3.335 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

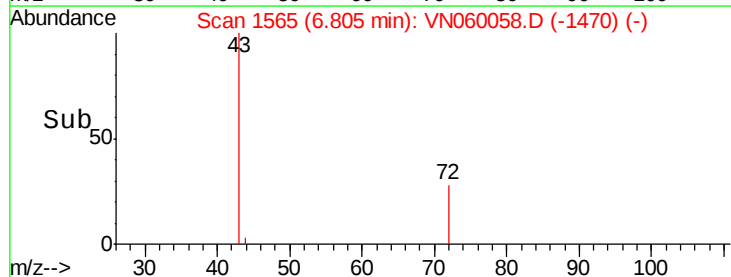
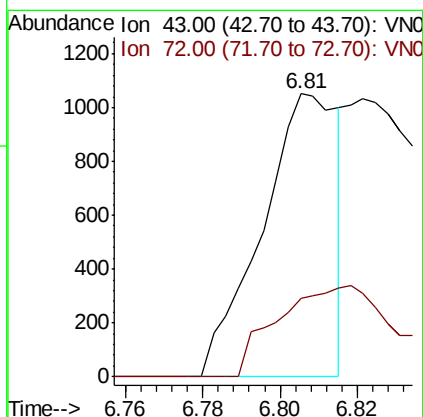
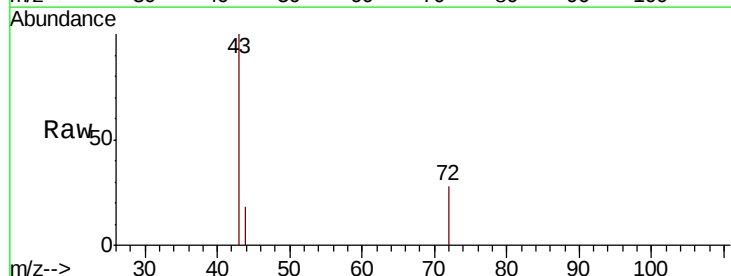
Instrument :
MSVOA_N
ClientSampled :

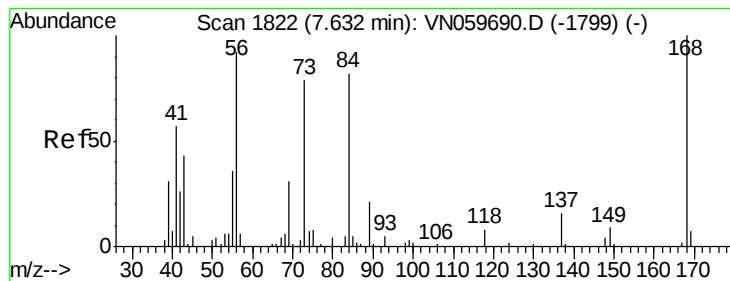
Tot Ion: 84 Resp: 8691
Ion Ratio Lower Upper
84 100
49 117.1 106.6 160.0
51 40.4 31.9 47.9
86 62.5 50.8 76.2



#25
2-Butanone
Concen: 1.197 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Tgt Ion: 43 Resp: 1433
Ion Ratio Lower Upper
43 100
72 27.6 19.9 29.9





#31

Cyclohexane

Concen: 1.261 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

ClientSampleId :

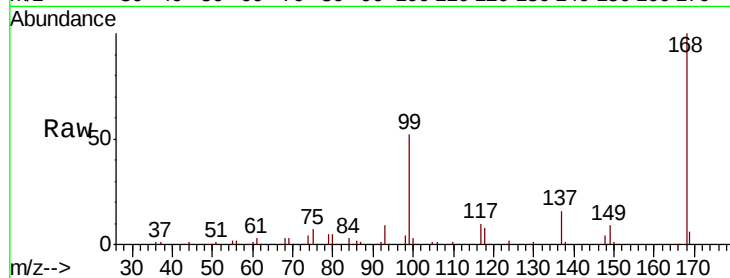
Tot Ion: 56 Resp: 3945

Ion Ratio Lower Upper

56 100

69 155.1 26.5 39.7#

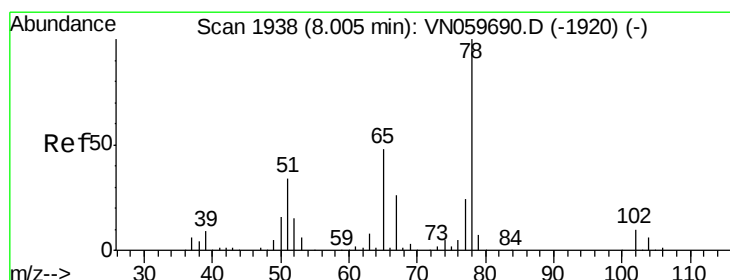
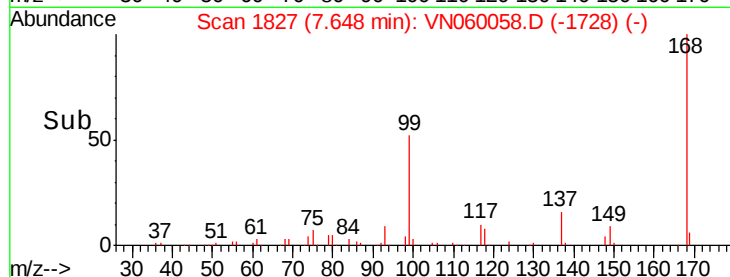
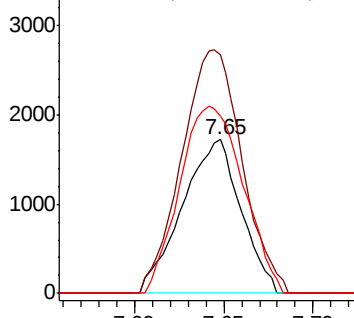
84 115.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN060058.D (-1822) (-)

Ion 69.00 (68.70 to 69.70): VN060058.D (-1822) (-)

Ion 84.00 (83.70 to 84.70): VN060058.D (-1822) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.969 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060058.D

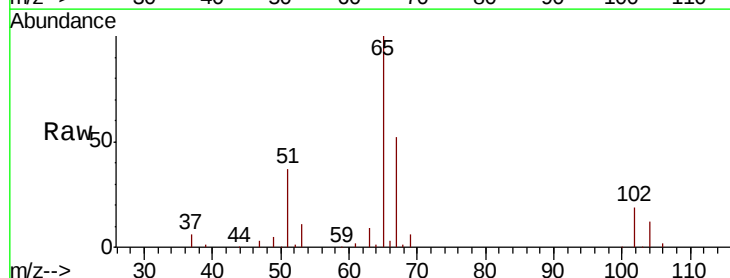
Acq: 11 Feb 2020 12:25

Tgt Ion: 65 Resp: 112002

Ion Ratio Lower Upper

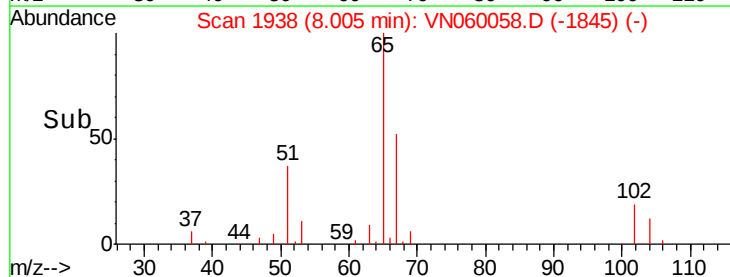
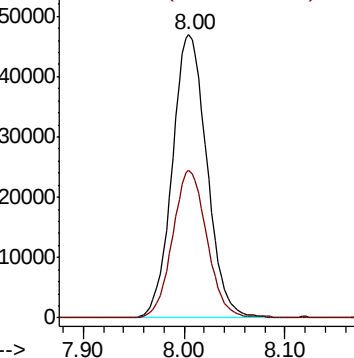
65 100

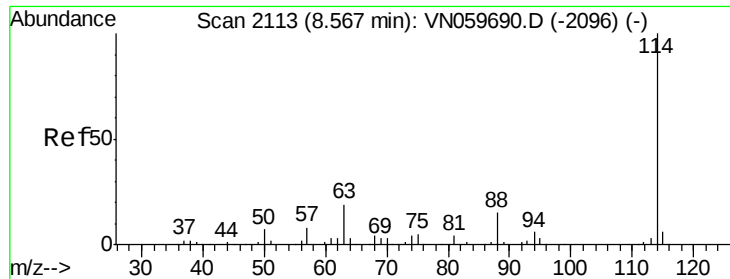
67 51.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN060058.D (-1938) (-)

Ion 66.90 (66.60 to 67.60): VN060058.D (-1938) (-)

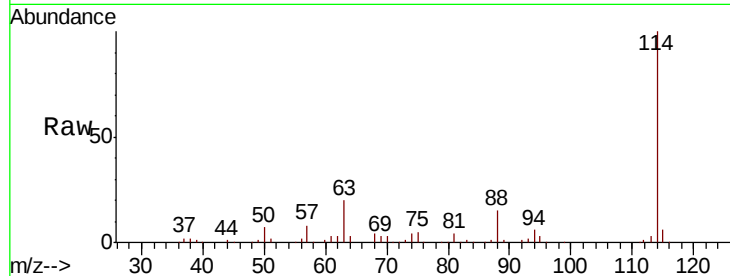




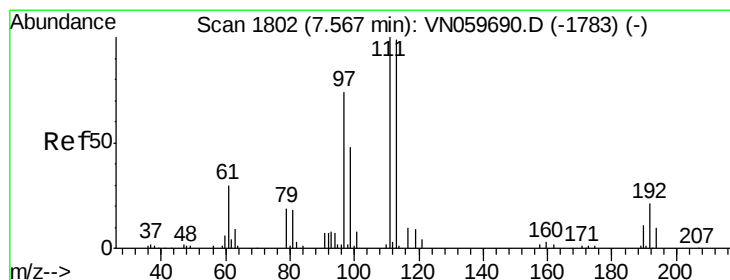
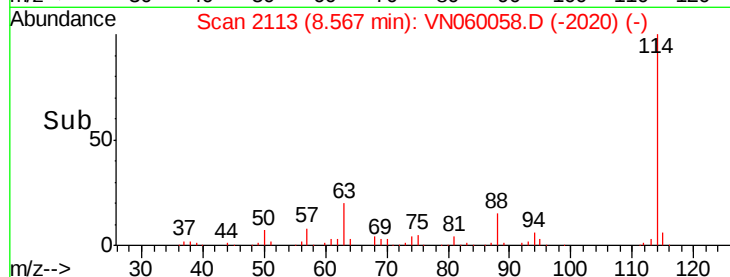
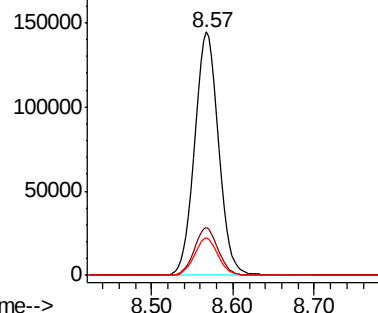
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 301071
Ion Ratio Lower Upper
114 100
63 19.5 0.0 43.6
88 15.3 0.0 31.4

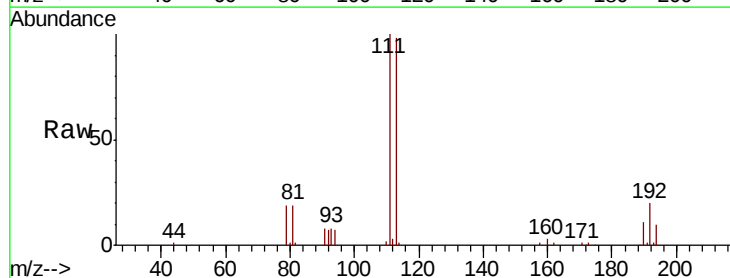


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

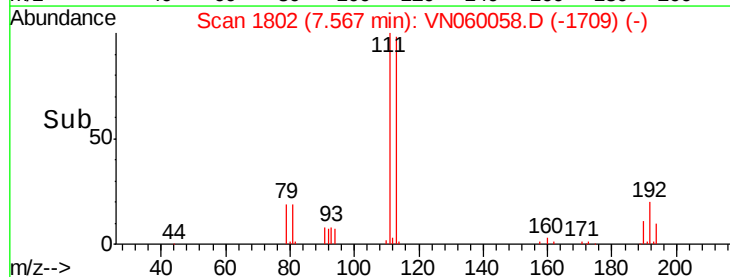
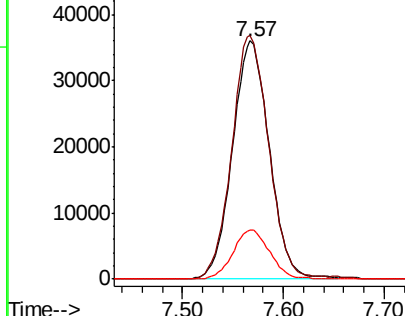


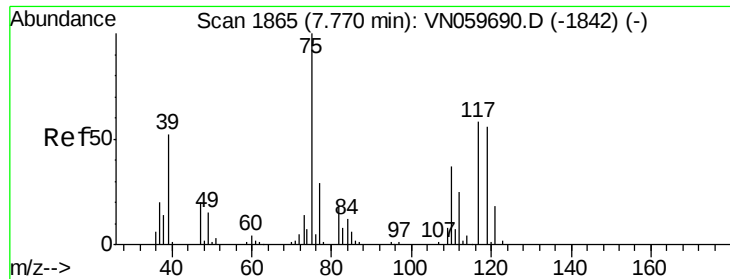
#35
Dibromofluoromethane
Concen: 50.895 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Tgt Ion:113 Resp: 91377
Ion Ratio Lower Upper
113 100
111 102.4 83.5 125.3
192 20.4 15.4 23.2



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: 5.174 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

ClientSampleId :

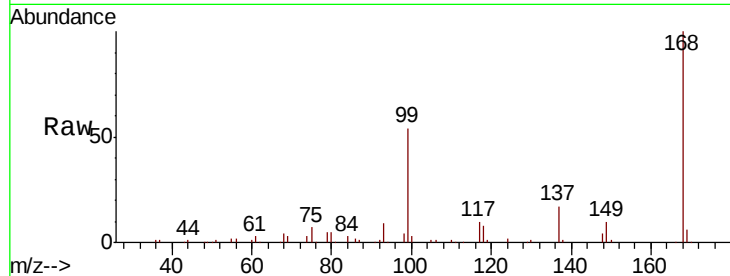
Tot Ion: 75 Resp: 13565

Ion Ratio Lower Upper

75 100

110 9.2 16.6 49.7#

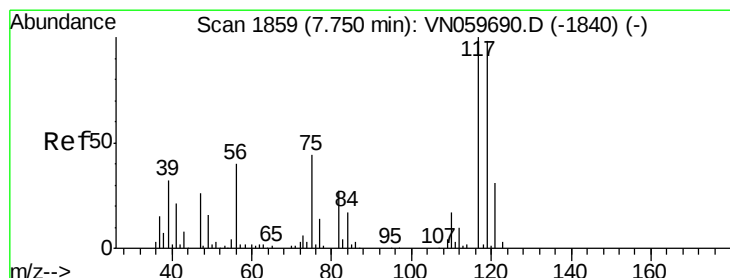
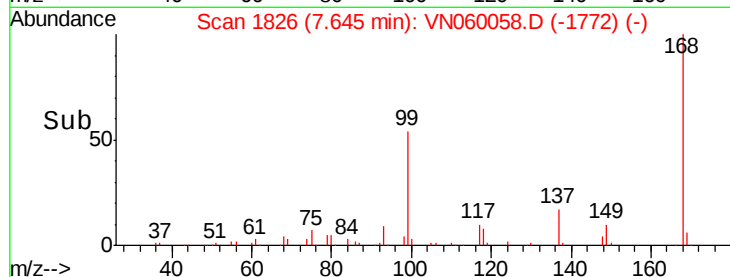
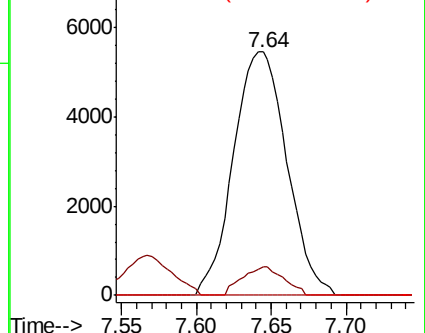
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.556 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

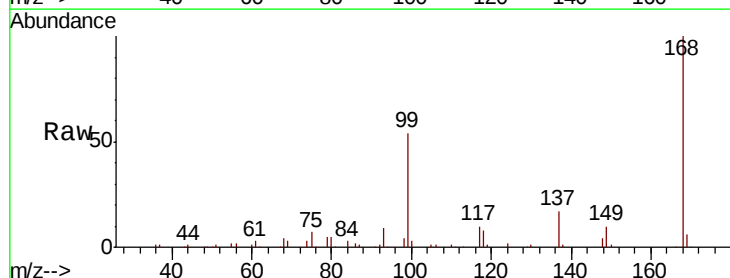
Tgt Ion: 117 Resp: 18697

Ion Ratio Lower Upper

117 100

119 5.3 76.5 114.7#

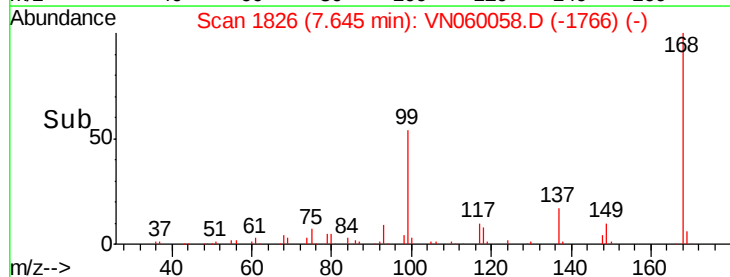
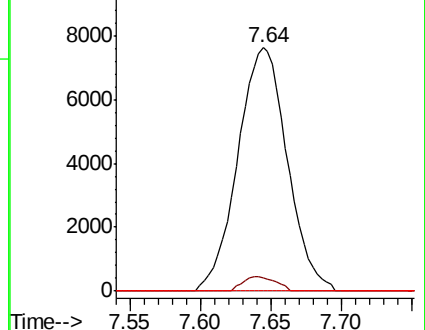
121 0.0 25.1 37.7#

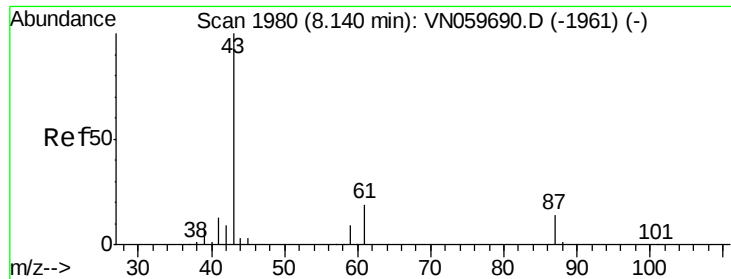


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 10.581 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

ClientSampled :

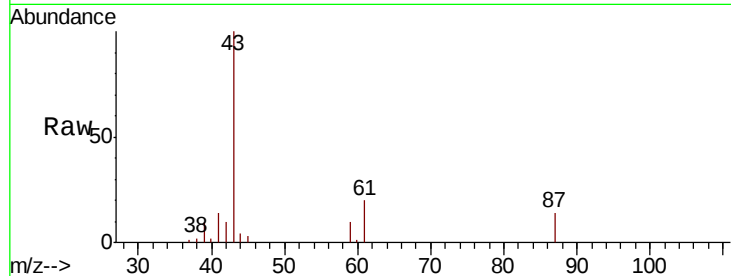
Tot Ion: 43 Resp: 44756

Ion Ratio Lower Upper

43 100

61 19.6 20.2 30.2#

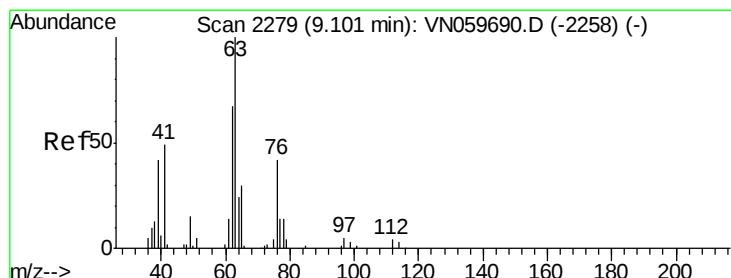
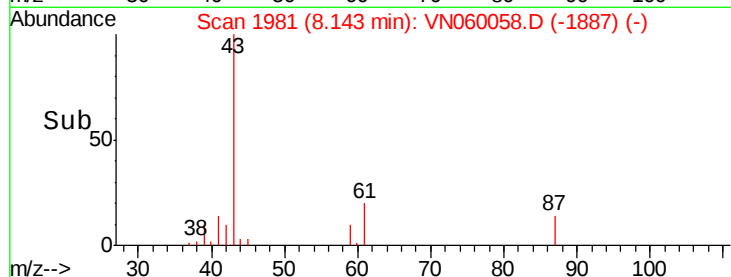
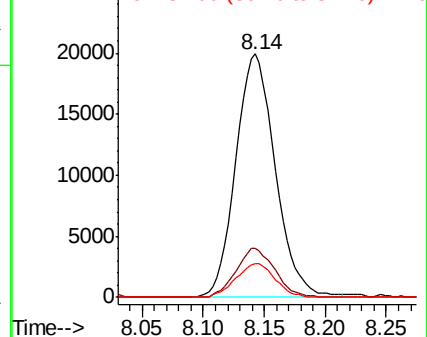
87 13.6 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.454 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060058.D

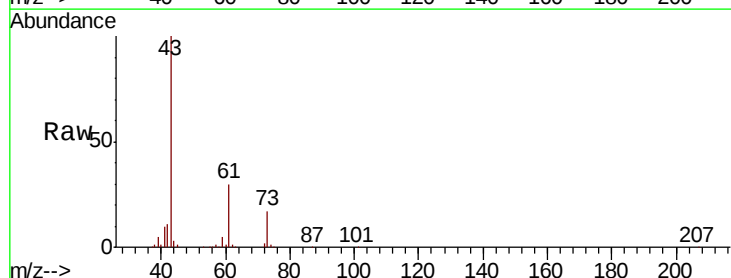
Acq: 11 Feb 2020 12:25

Tgt Ion: 63 Resp: 878

Ion Ratio Lower Upper

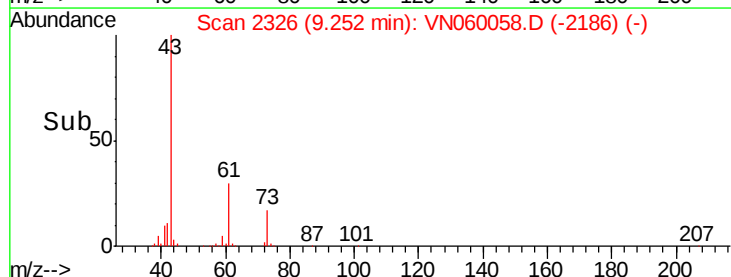
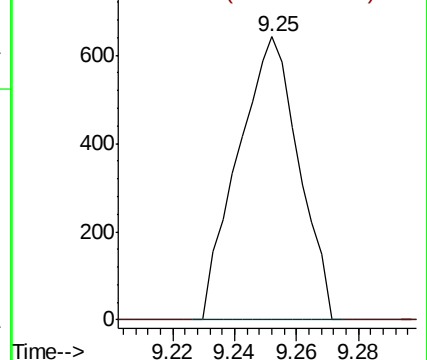
63 100

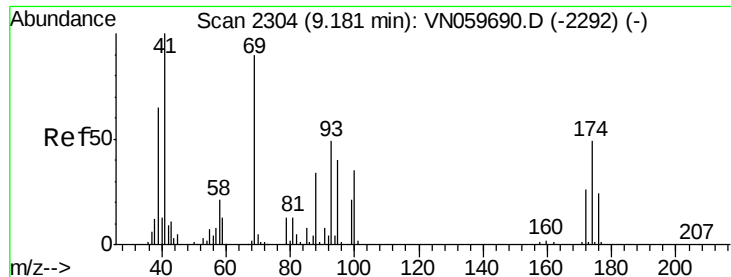
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

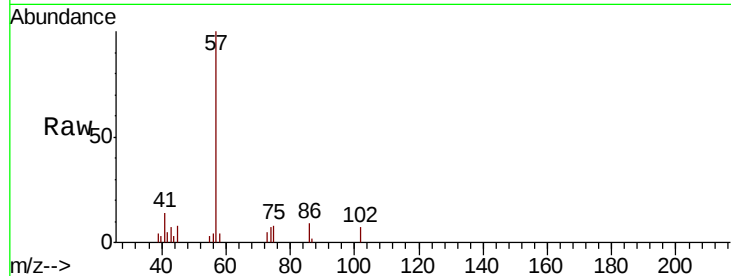




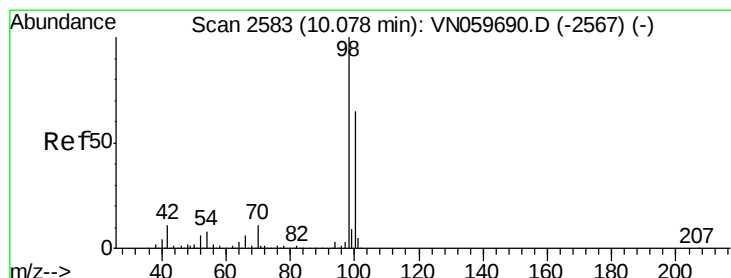
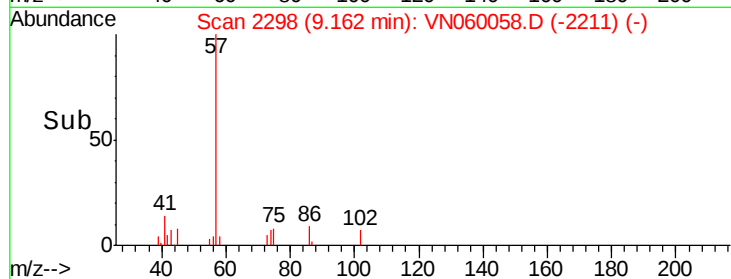
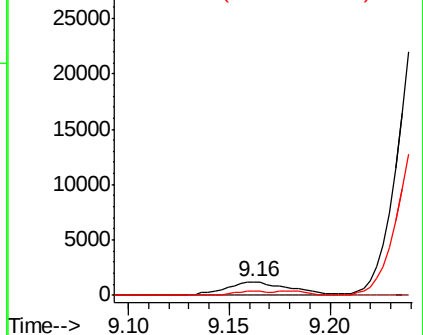
#48
Methvl methacrylate
Concen: 1.421 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2689
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

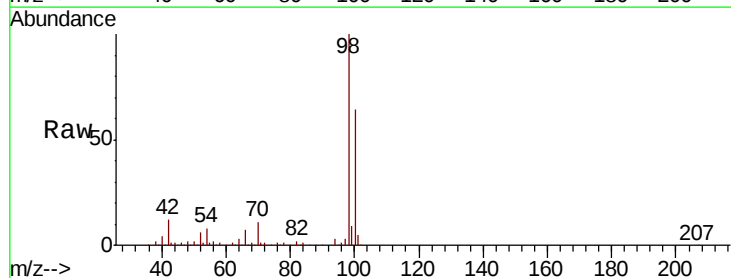


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

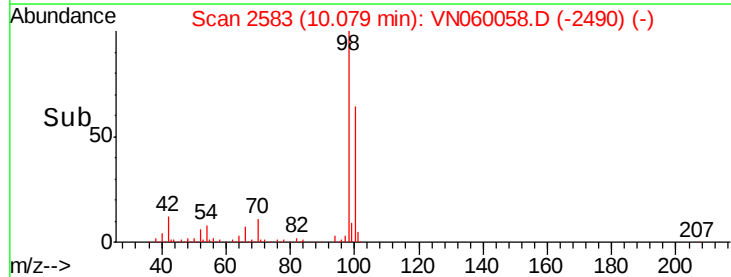
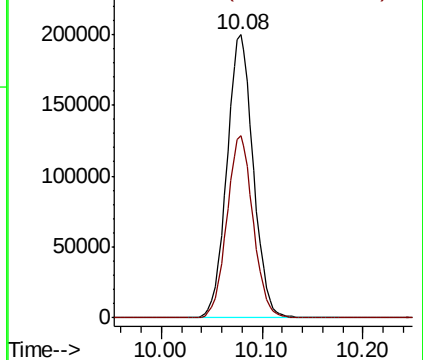


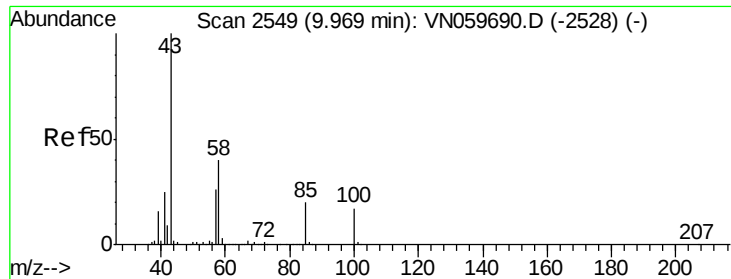
#50
Toluene-d8
Concen: 52.151 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Tgt Ion: 98 Resp: 362780
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.274 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

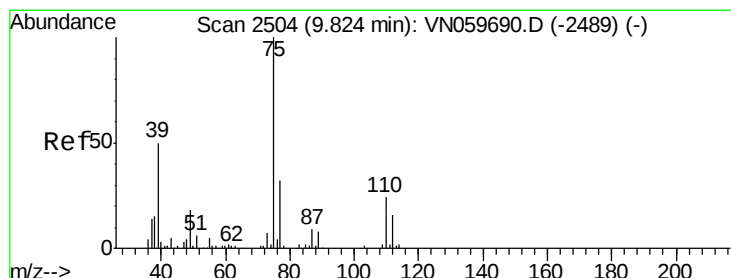
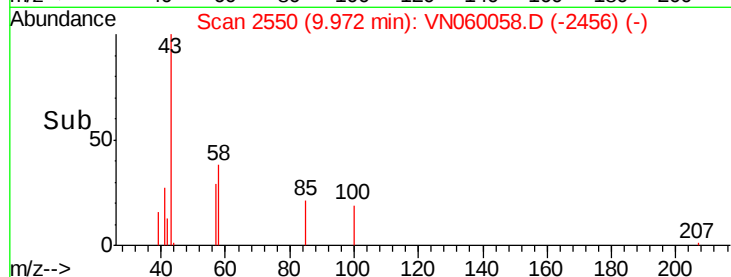
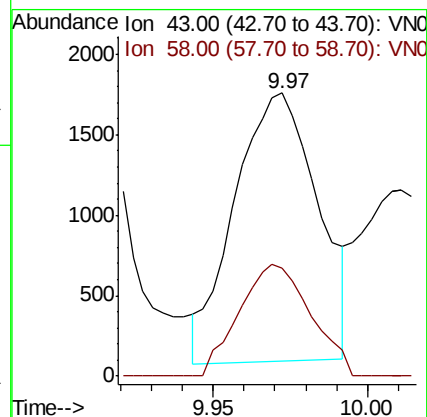
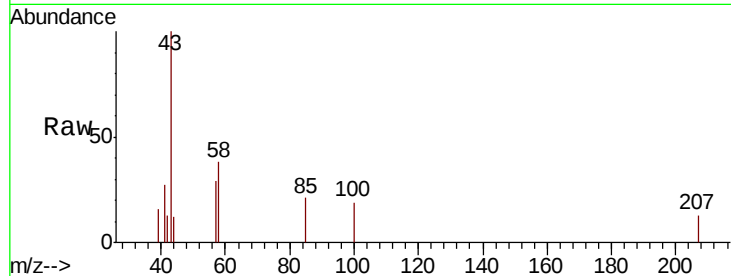
ClientSampled :

Tot Ion: 43 Resp: 3115

Ion Ratio Lower Upper

43 100

58 35.9 29.8 44.8



#54

cis-1,3-Dichloropropene

Concen: 6.405 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

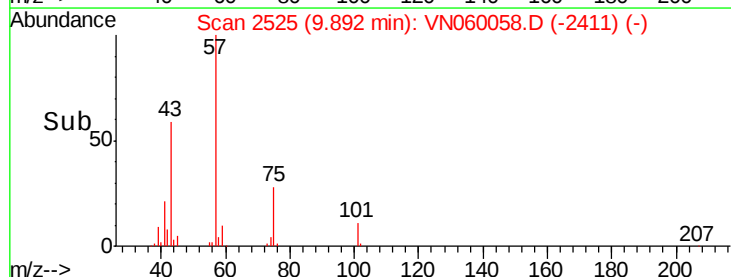
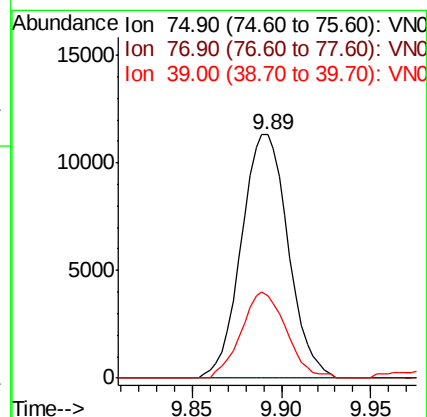
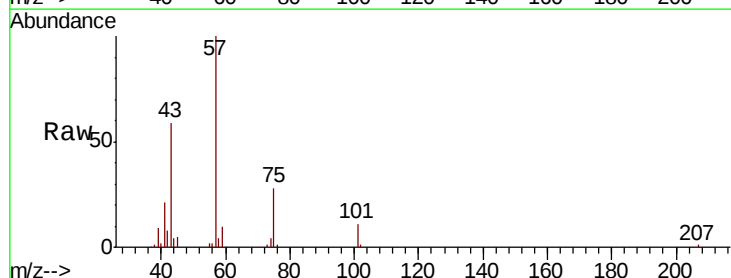
Tgt Ion: 75 Resp: 20698

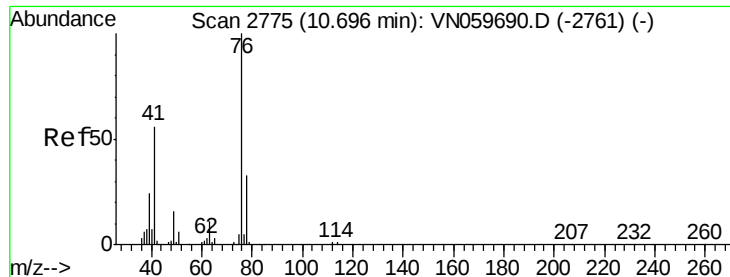
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 33.8 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 1.074 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

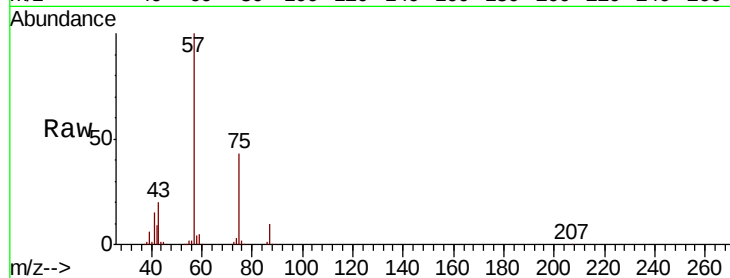
ClientSampled :

Tot Ion: 76 Resp: 3334

Ion Ratio Lower Upper

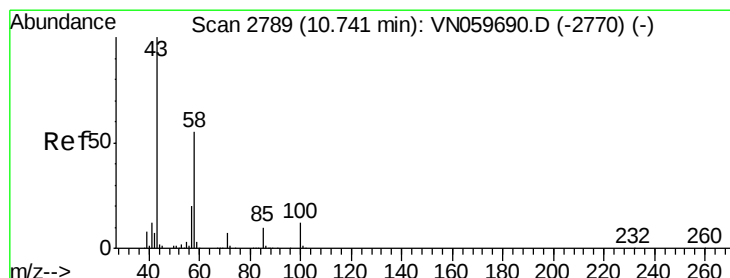
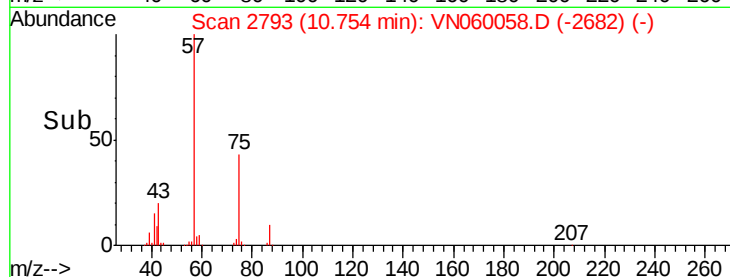
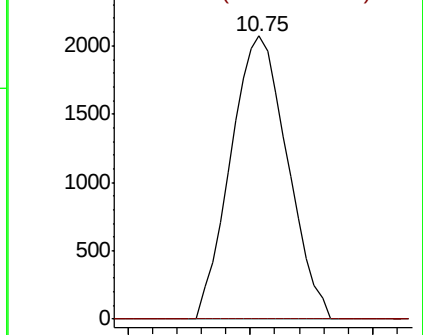
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 25.162 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060058.D

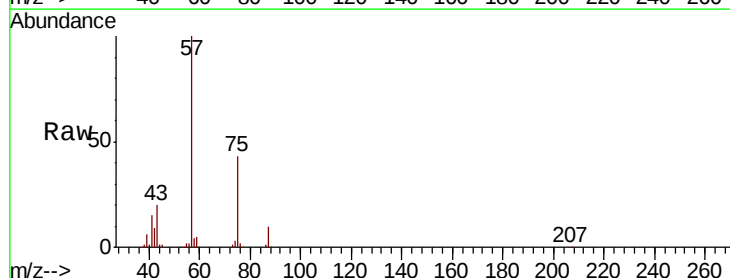
Acq: 11 Feb 2020 12:25

Tgt Ion: 43 Resp: 45323

Ion Ratio Lower Upper

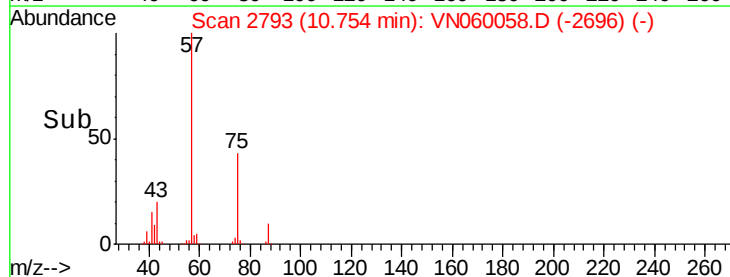
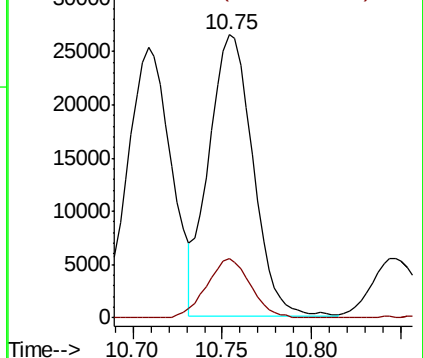
43 100

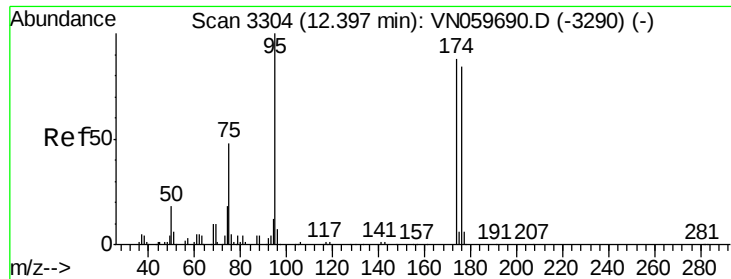
58 20.7 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

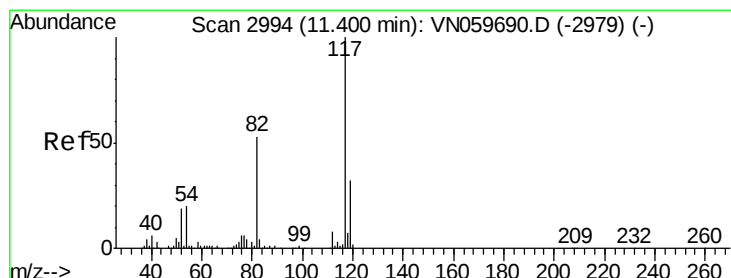
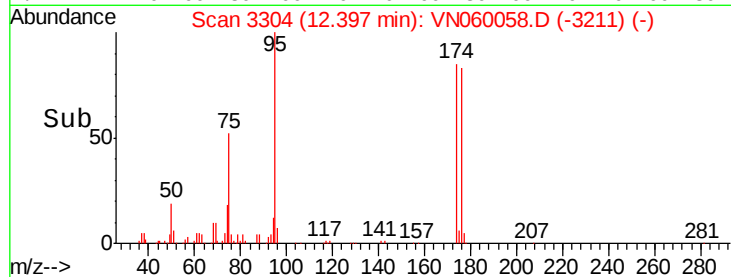
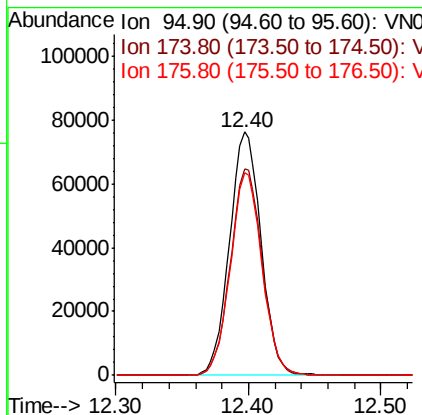
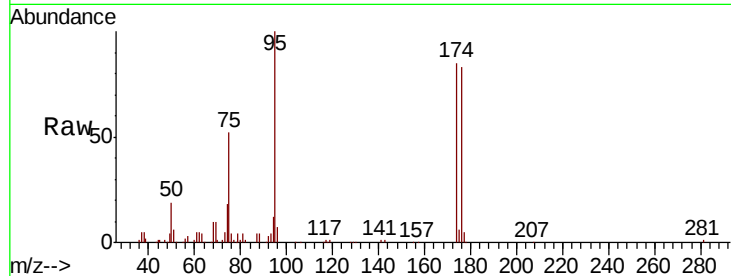




#62
4-Bromofluorobenzene
Concen: 50.264 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

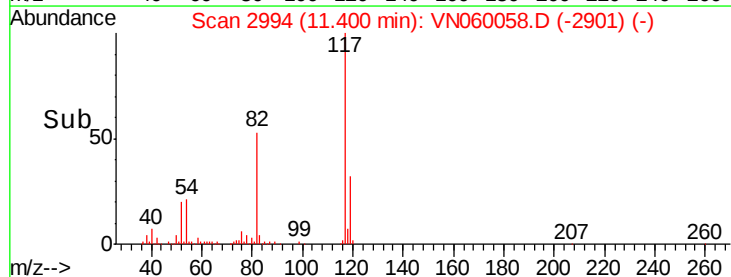
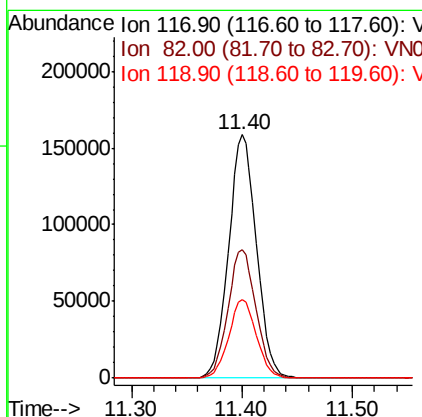
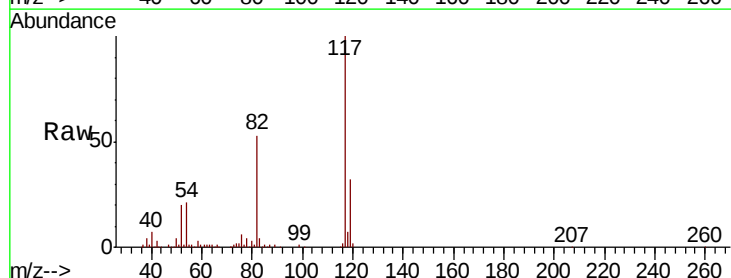
Instrument :
MSVOA_N
ClientSampled :

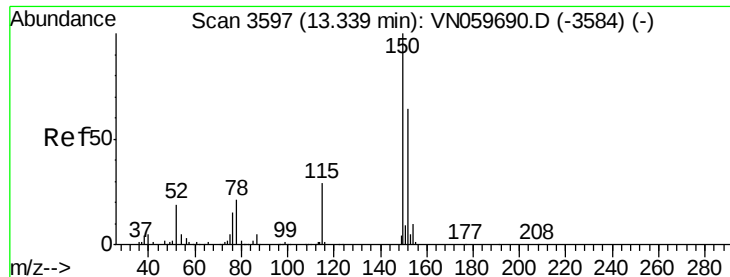
Tot Ion: 95 Resp: 126049
Ion Ratio Lower Upper
95 100
174 85.4 0.0 151.4
176 83.2 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060058.D
Acq: 11 Feb 2020 12:25

Tgt Ion: 117 Resp: 275979
Ion Ratio Lower Upper
117 100
82 53.0 45.9 68.9
119 32.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

ClientSampleId :

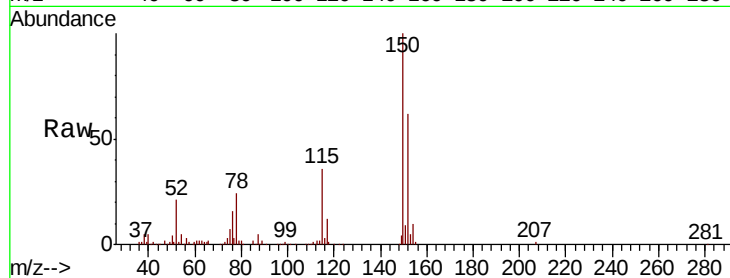
Tot Ion:152 Resp: 117774

Ion Ratio Lower Upper

152 100

115 58.7 30.3 90.9

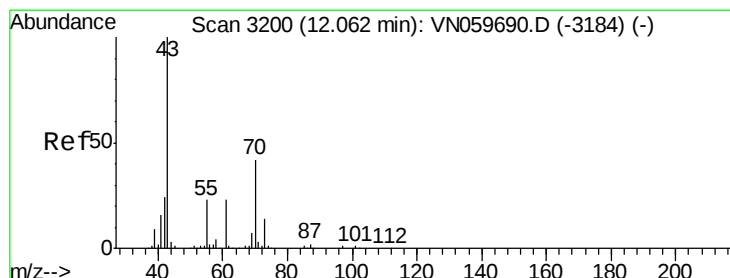
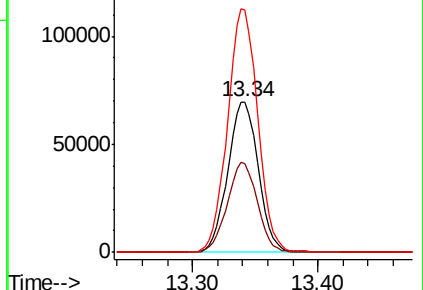
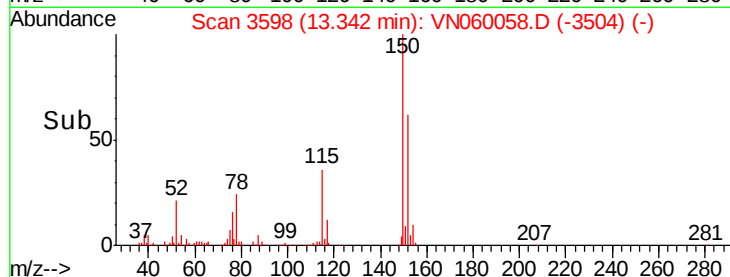
150 160.1 0.0 345.2



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



#74

N-amil acetate

Concen: 0.741 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Tgt Ion: 43 Resp: 2482

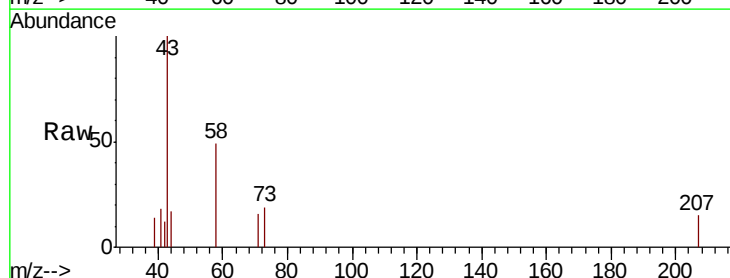
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

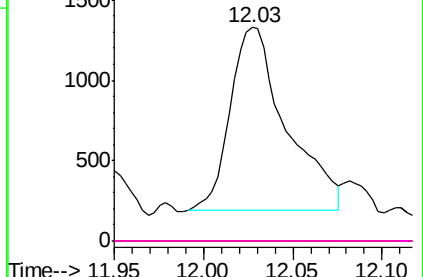
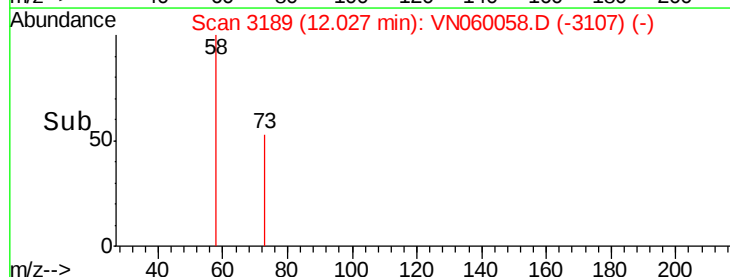


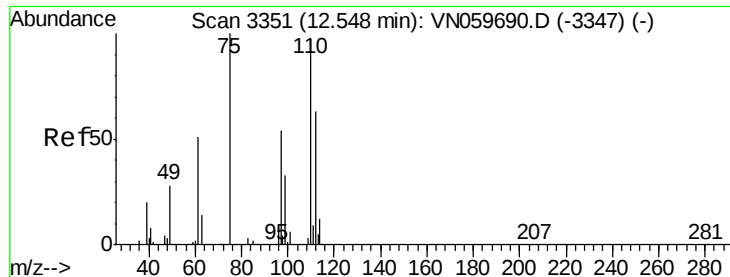
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 33.007 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

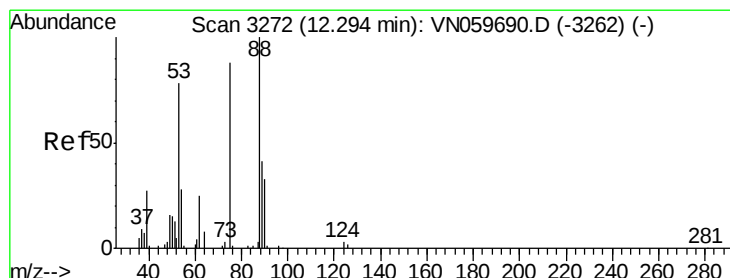
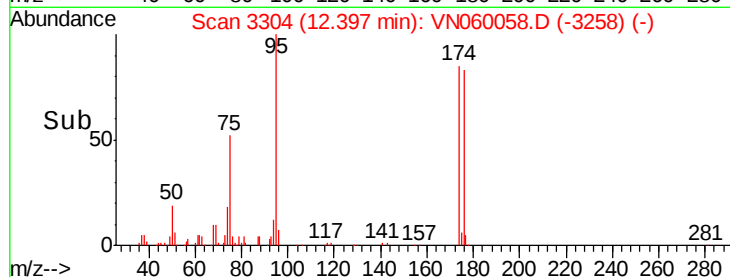
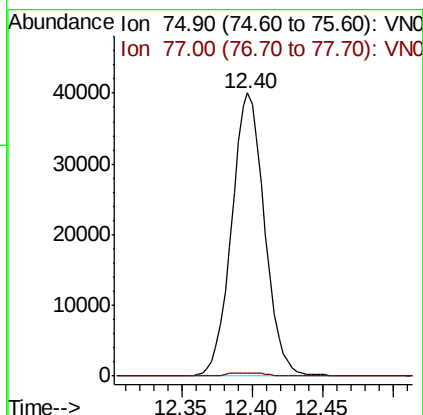
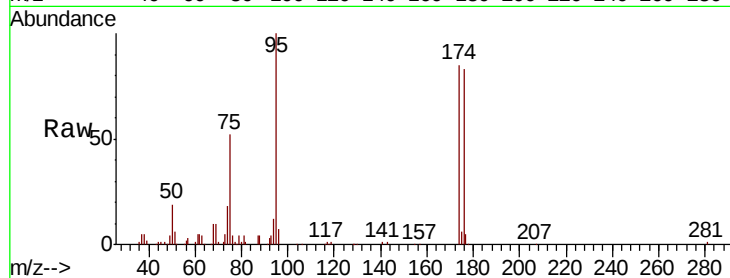
ClientSampled :

Tot Ion: 75 Resp: 65421

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.883 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

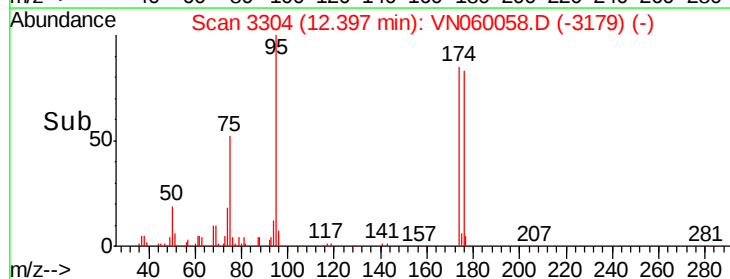
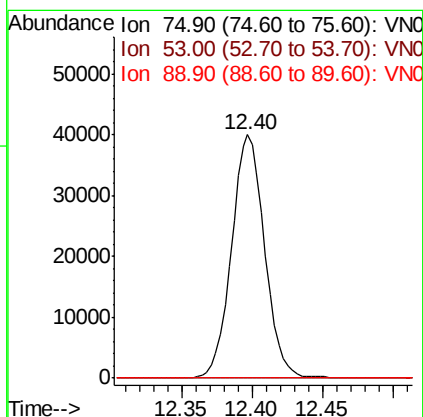
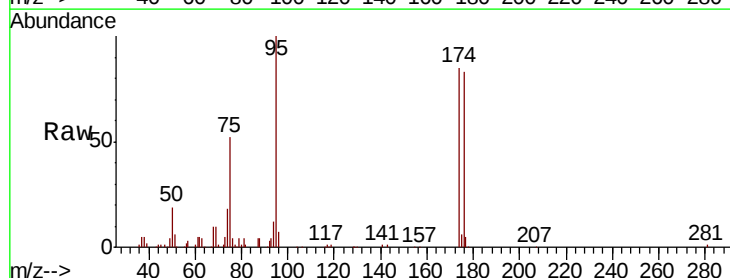
Tgt Ion: 75 Resp: 65421

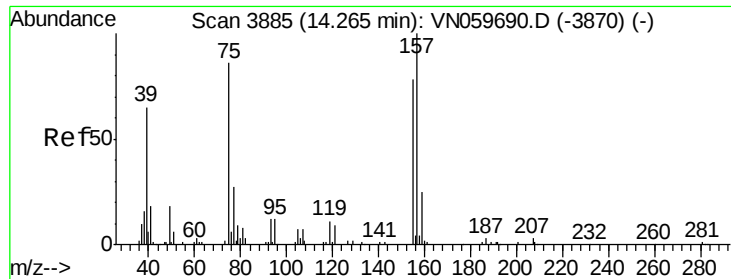
Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#

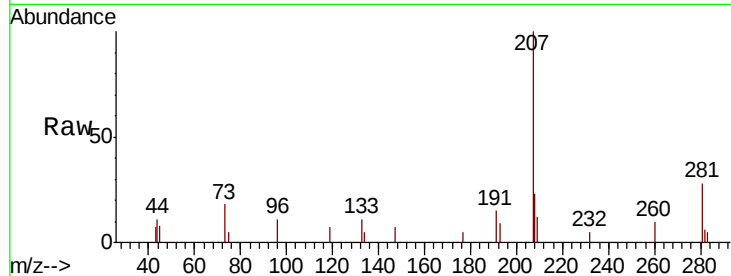




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3882
 Delta R.T. -0.01 min
 Lab File: VN060058.D
 Acq: 11 Feb 2020 12:25

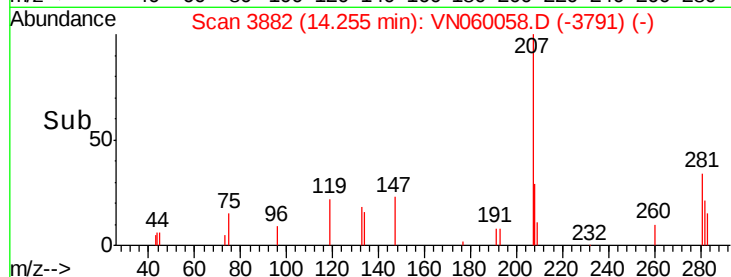
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 30
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#

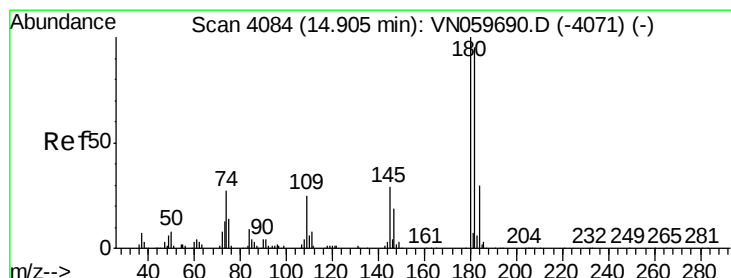


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

14.26

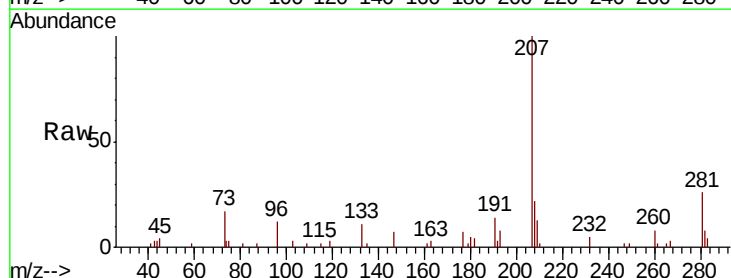


Time-->



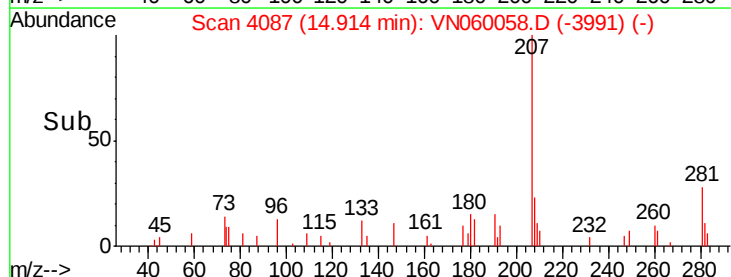
#93
 1,2,4-Trichlorobenzene
 Concen: 0.323 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN060058.D
 Acq: 11 Feb 2020 12:25

Tgt Ion: 180 Resp: 728
 Ion Ratio Lower Upper
 180 100
 182 82.7 46.9 140.7
 145 17.4 15.0 45.1

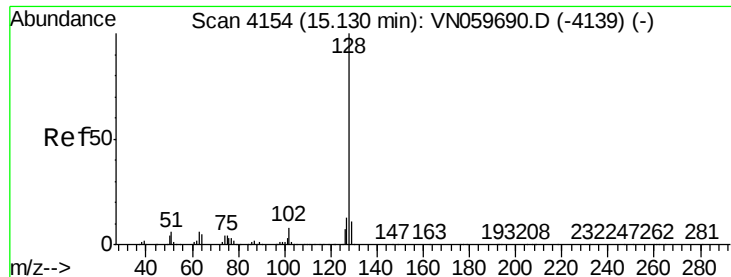


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.91



Time-->



#95

Naphthalene

Concen: 0.435 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060058.D

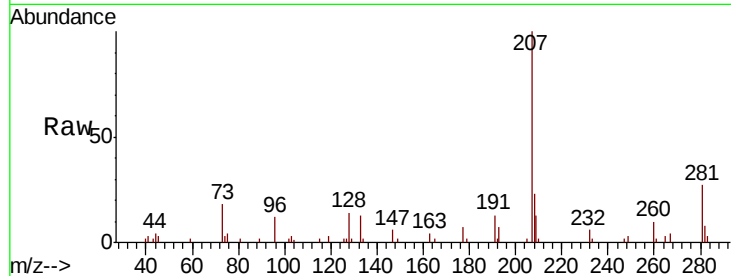
Acq: 11 Feb 2020 12:25

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	128	Resp:	2791
Ion	Ratio	Lower	Upper
128	100		
127	11.0	10.4	15.6
129	6.3	8.6	12.8#



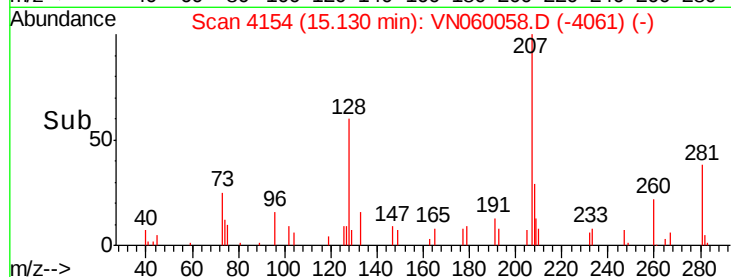
Abundance

Ion 128.00 (127.70 to 128.70): V

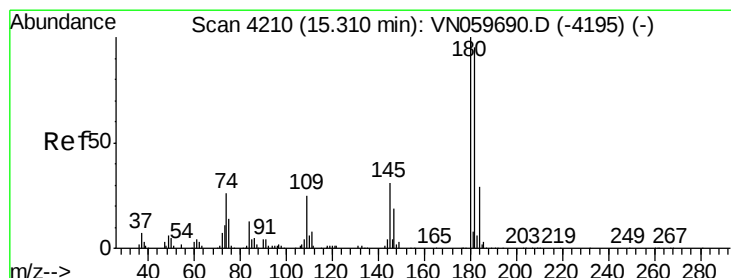
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.364 ug/l

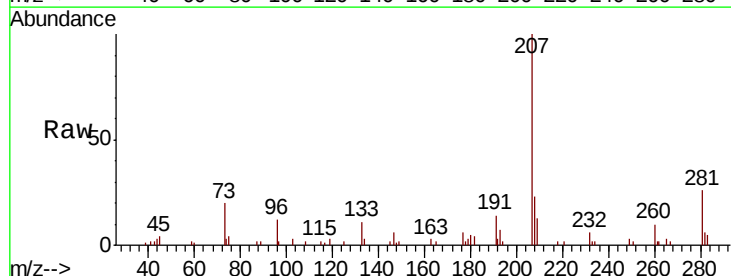
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN060058.D

Acq: 11 Feb 2020 12:25

Tgt Ion:	180	Resp:	799
Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.4	142.3
145	24.8	16.3	48.9



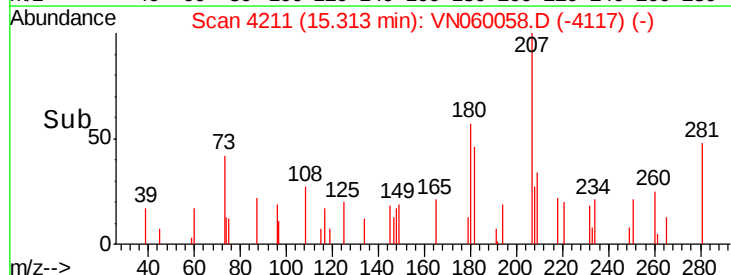
Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31



Time-->