

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062790.D
 Acq On : 7 Aug 2020 19:42
 Operator : JC/MD
 Sample : L3594-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Aug 08 02:15:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	129821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	236936	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	86200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	112164	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
35) Dibromofluoromethane	7.55	113	81449	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
50) Toluene-d8	10.06	98	312246	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.38	95	110895	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	

Target Compounds

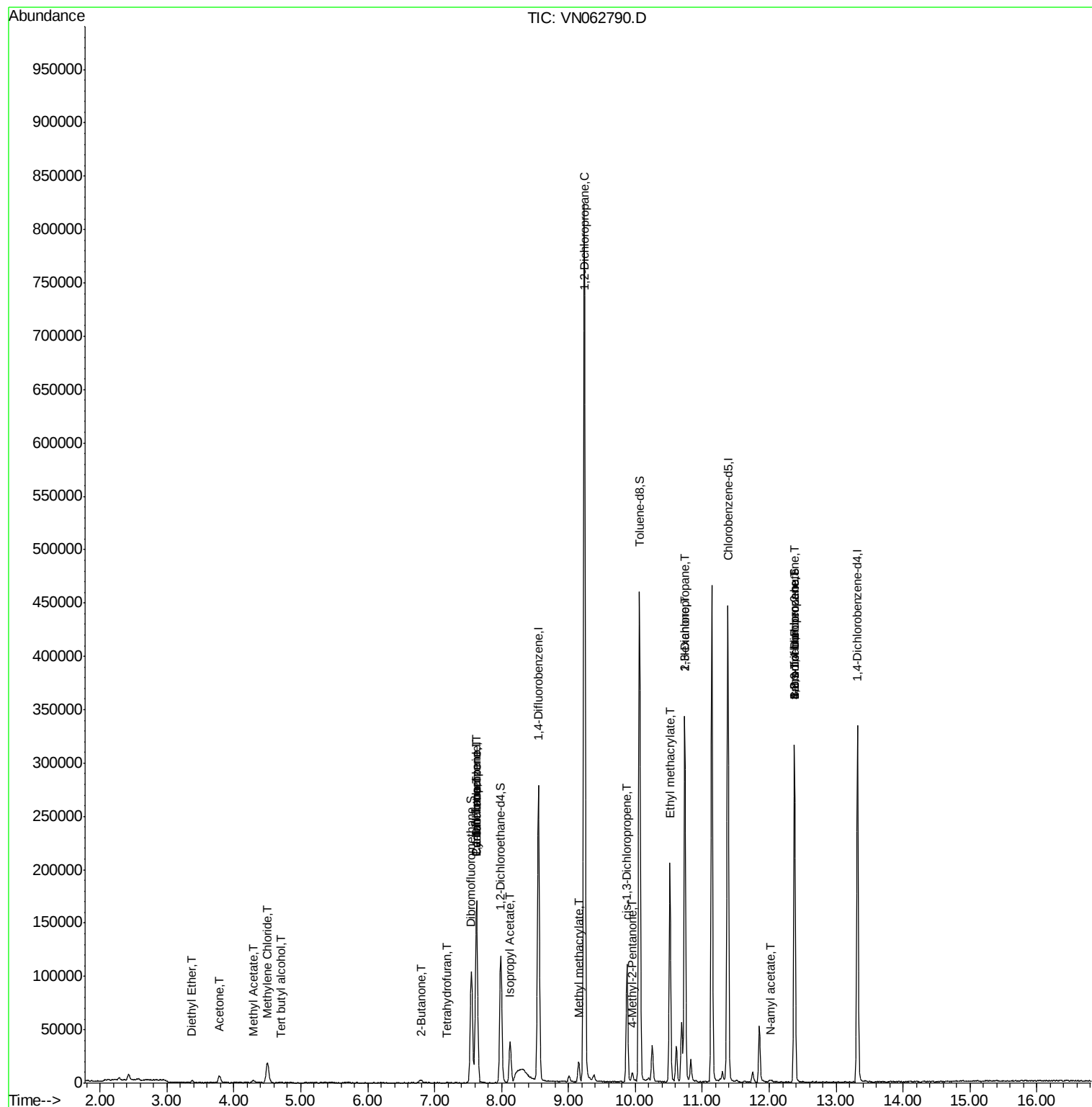
					Qvalue	
8) Diethyl Ether	3.36	74	299	0.356	ug/l	67
11) Tert butyl alcohol	4.70	59	169	0.480	ug/l #	72
16) Acetone	3.78	43	11627	14.988	ug/l	96
18) Methyl Acetate	4.28	43	4933	1.595	ug/l #	89
20) Methylene Chloride	4.50	84	14098	9.312	ug/l	96
25) 2-Butanone	6.81	43	2506	2.281	ug/l	100
29) Tetrahydrofuran	7.18	42	319	0.447	ug/l #	33
31) Cyclohexane	7.62	56	3129	1.202	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	11461	4.968	ug/l #	51
38) Carbon Tetrachloride	7.62	117	13505	4.949	ug/l #	20
43) Isopropyl Acetate	8.13	43	44086	10.967	ug/l	100
45) 1,2-Dichloropropane	9.23	63	943	0.506	ug/l #	45
48) Methyl methacrylate	9.16	41	2830	1.431	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	6089	2.341	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	18127	5.986	ug/l #	65
56) Ethyl methacrylate	10.51	69	1204	0.441	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3102	1.006	ug/l #	43
59) 2-Hexanone	10.74	43	50730	26.149	ug/l #	51
71) Bromoform	12.38	173	388	0.231	ug/l #	1
74) N-amyl acetate	12.01	43	1824	0.693	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	59681	25.672	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59681	78.371	ug/l #	10

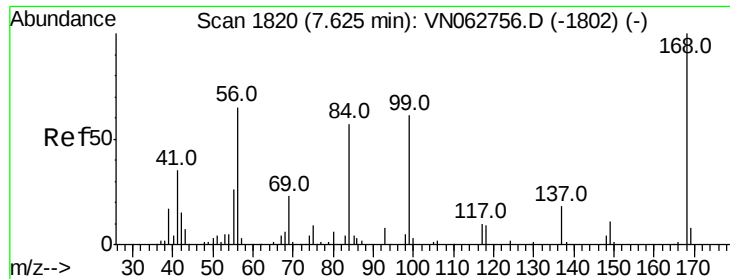
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080720\
Data File : VN062790.D
Acq On : 7 Aug 2020 19:42
Operator : JC/MD
Sample : L3594-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Quant Time: Aug 08 02:15:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

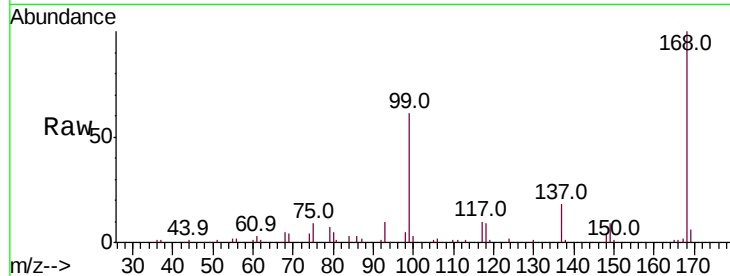
TP-1

Tot Ion:168 Resp: 129821

Ion Ratio Lower Upper

168 100

99 61.2 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): VN062756.D (-1802) (-)

Ion 98.90 (98.60 to 99.60): VN062756.D (-1802) (-)

7.63

60000

50000

40000

30000

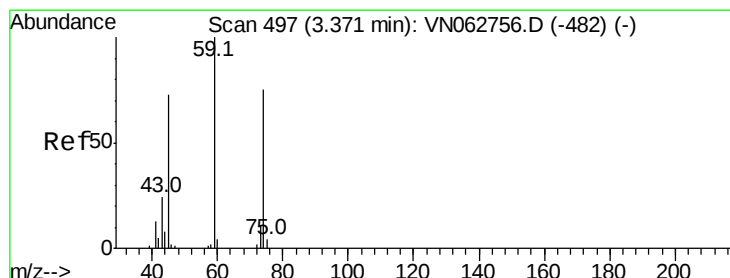
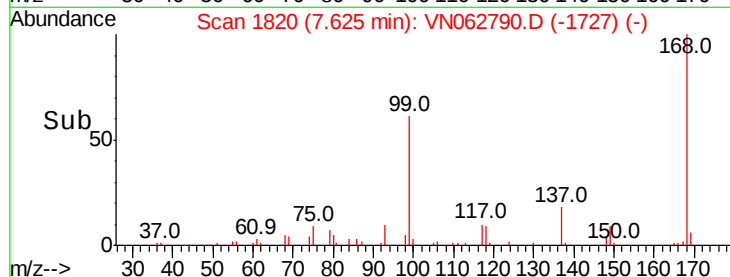
20000

10000

0

Time-->

7.55 7.60 7.65 7.70



#8

Diethyl Ether

Concen: 0.356 ug/l

RT: 3.36 min Scan# 494

Delta R.T. -0.01 min

Lab File: VN062790.D

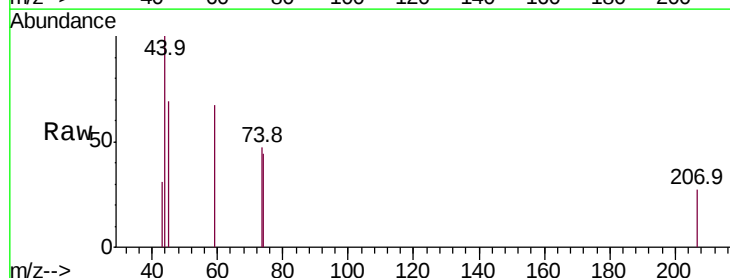
Acq: 7 Aug 2020 19:42

Tgt Ion: 74 Resp: 299

Ion Ratio Lower Upper

74 100

45 130.1 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN062790.D (-404) (-)

Ion 45.00 (44.70 to 45.70): VN062790.D (-404) (-)

3.36

600

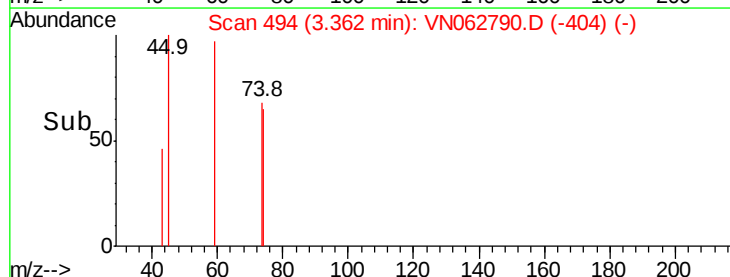
400

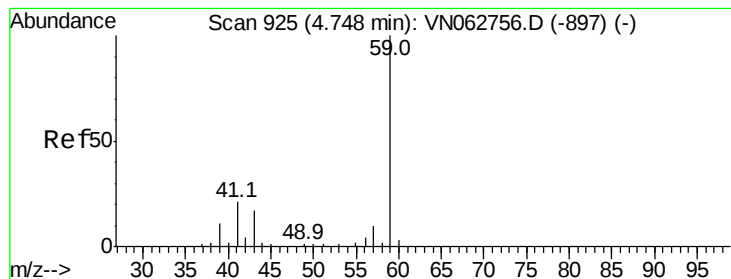
200

0

Time-->

3.35 3.36 3.37



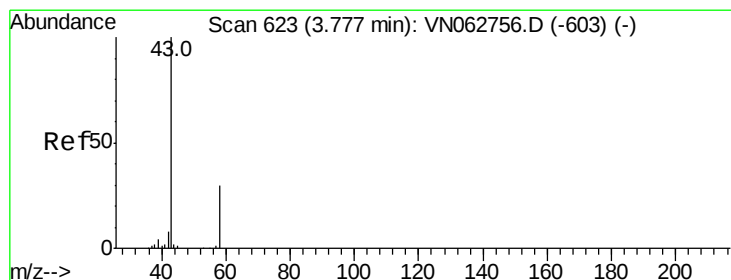
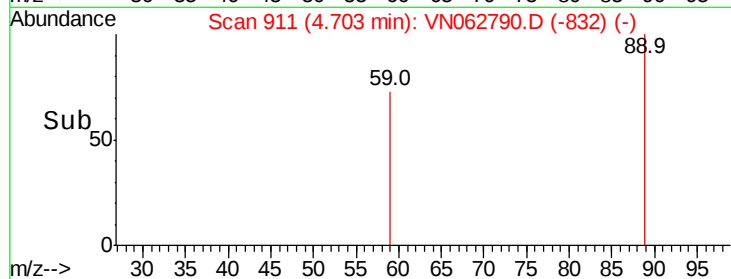
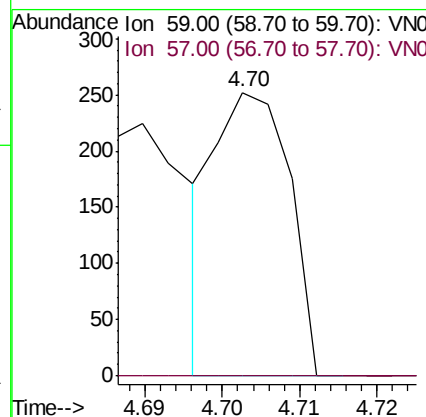
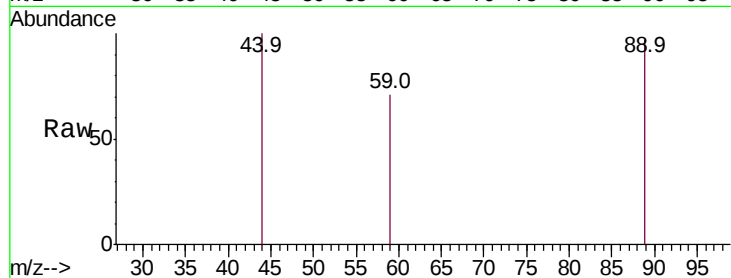


#11

Tert butyl alcohol
 Concen: 0.480 ug/l
 RT: 4.70 min Scan# 911
 Delta R.T. -0.04 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1

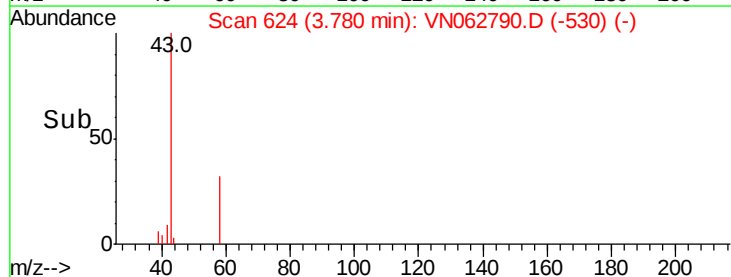
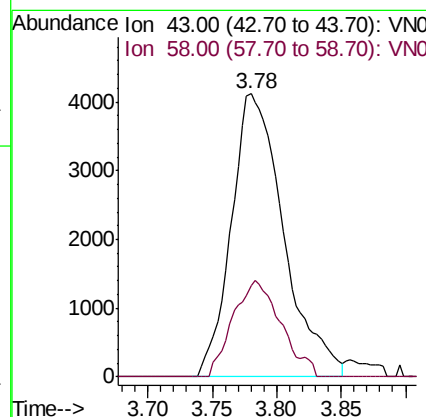
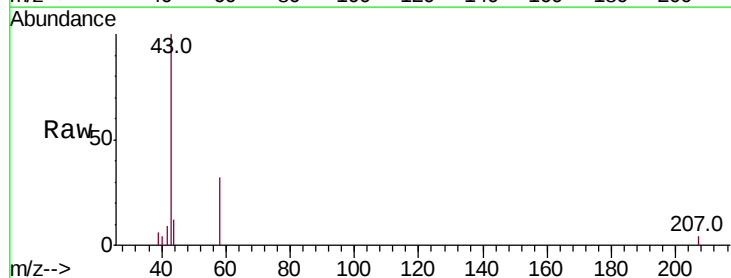
Tot Ion: 59 Resp: 169
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

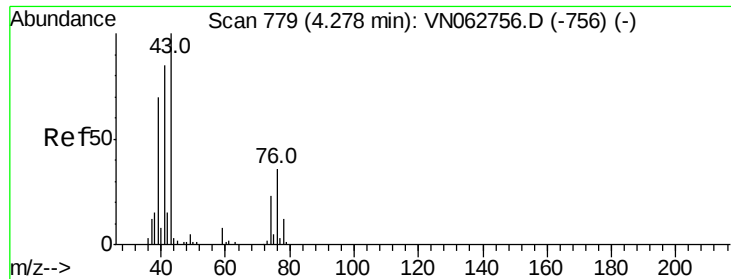


#16

Acetone
 Concen: 14.988 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

Tgt Ion: 43 Resp: 11627
 Ion Ratio Lower Upper
 43 100
 58 32.1 24.1 36.1

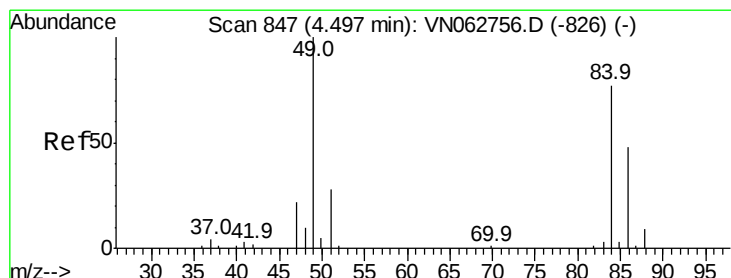
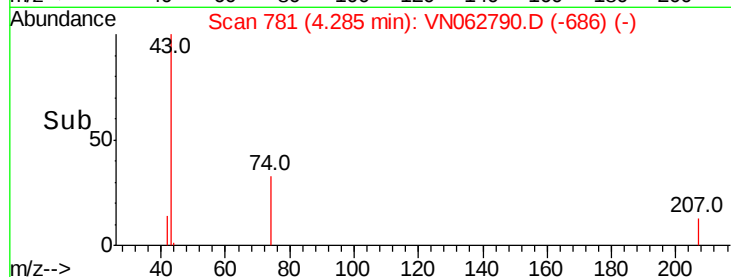
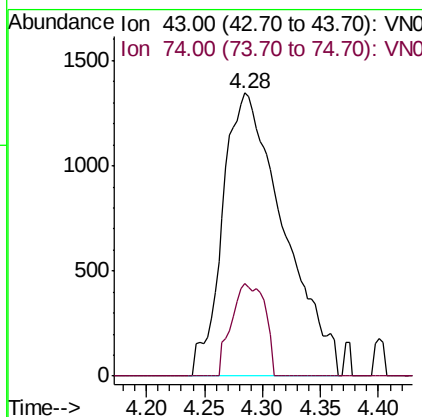
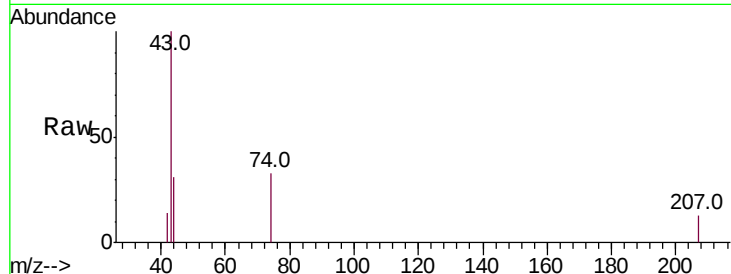




#18
Methyl Acetate
Concen: 1.595 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

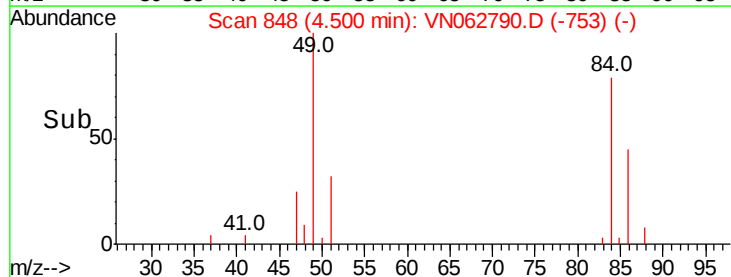
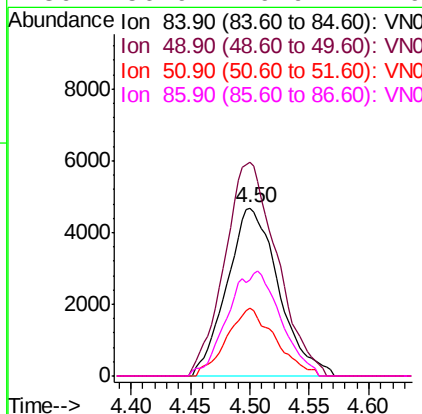
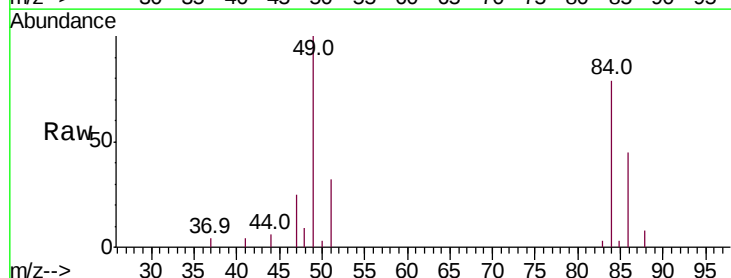
Instrument :
MSVOA_N
ClientSampled :
TP-1

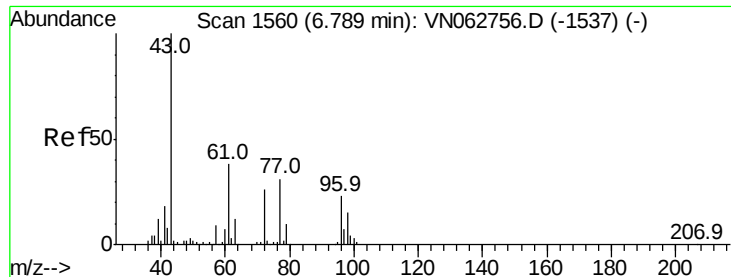
Tot Ion: 43 Resp: 4933
Ion Ratio Lower Upper
43 100
74 17.8 18.6 28.0#



#20
Methylene Chloride
Concen: 9.312 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

Tgt Ion: 84 Resp: 14098
Ion Ratio Lower Upper
84 100
49 126.9 103.4 155.2
51 40.2 29.3 43.9
86 56.9 49.9 74.9





#25

2-Butanone

Concen: 2.281 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.02 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

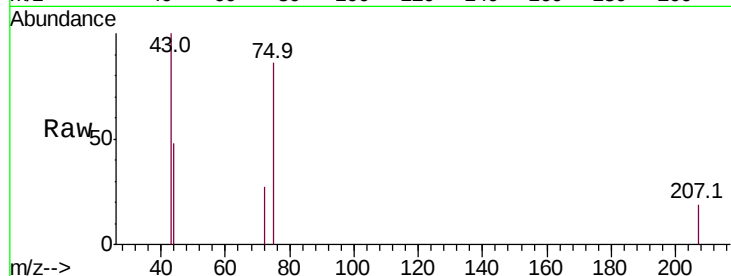
TP-1

Tot Ion: 43 Resp: 2506

Ion Ratio Lower Upper

43 100

72 26.6 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-1537) (-)

Ion 72.00 (71.70 to 72.70): VN062756.D (-1537) (-)

6.81

800

600

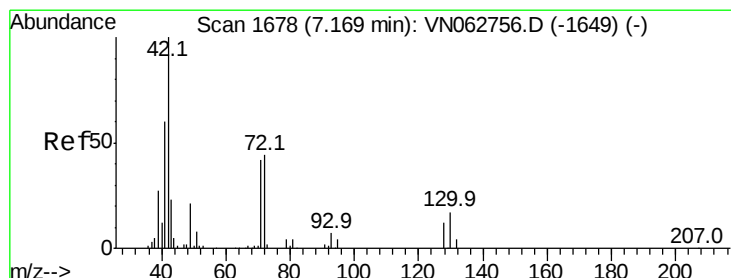
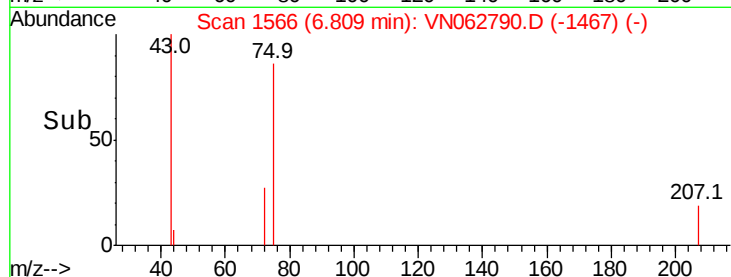
400

200

0

6.75 6.80 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.447 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

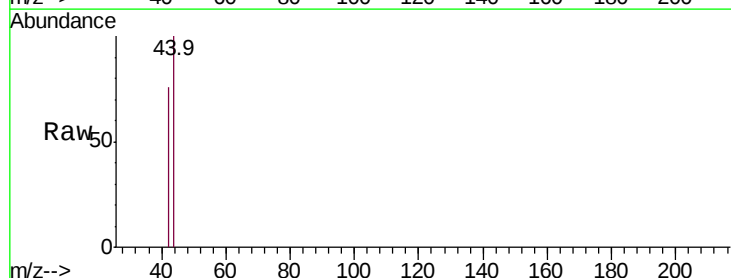
Tgt Ion: 42 Resp: 319

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 33.2 49.8#



Abundance Ion 42.00 (41.70 to 42.70): VN062756.D (-1649) (-)

Ion 72.00 (71.70 to 72.70): VN062756.D (-1649) (-)

Ion 71.00 (70.70 to 71.70): VN062756.D (-1649) (-)

7.18

300

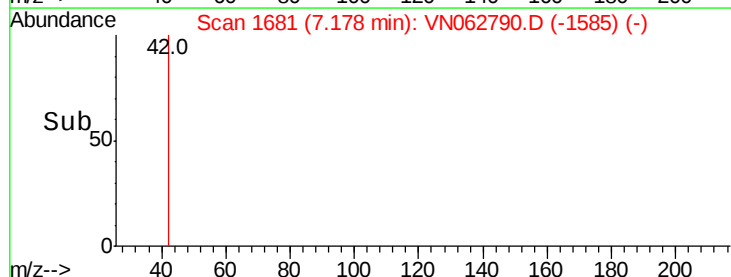
200

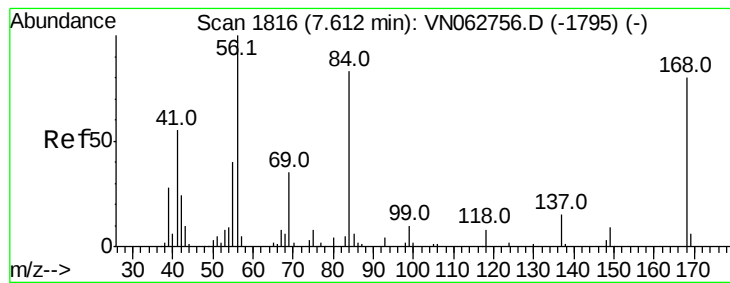
100

0

7.16 7.18 7.20

Time-->





#31

Cyclohexane

Concen: 1.202 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

TP-1

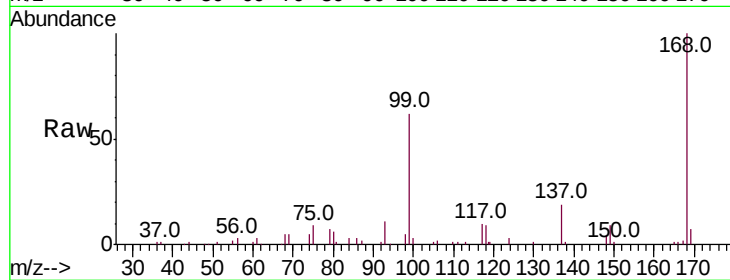
Tot Ion: 56 Resp: 3129

Ion Ratio Lower Upper

56 100

69 176.1 28.1 42.1#

84 110.3 66.8 100.2#

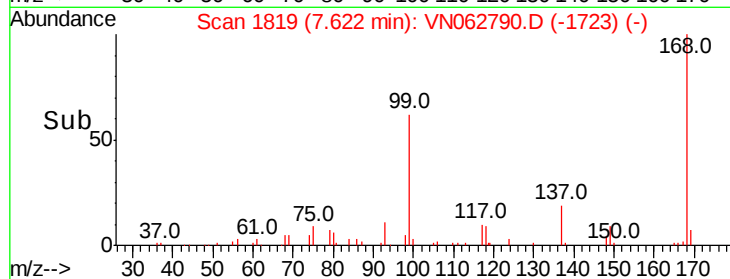


Abundance Ion 56.00 (55.70 to 56.70): VN062756.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062756.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062756.D (-1795) (-)

Time-->

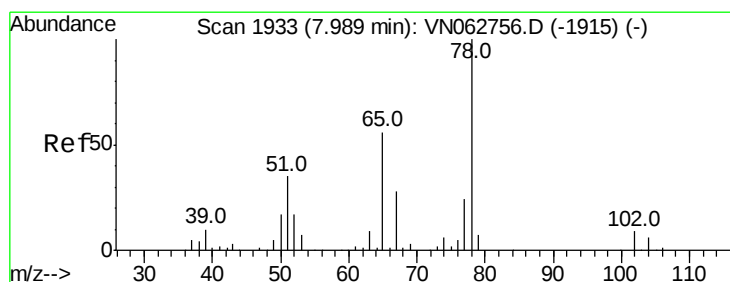


Abundance Ion 56.00 (55.70 to 56.70): VN062790.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062790.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062790.D (-1723) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.246 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062790.D

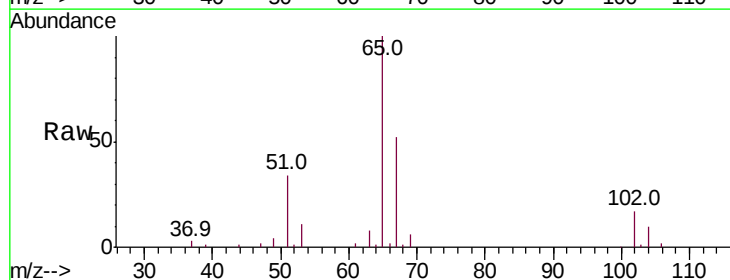
Acq: 7 Aug 2020 19:42

Tgt Ion: 65 Resp: 112164

Ion Ratio Lower Upper

65 100

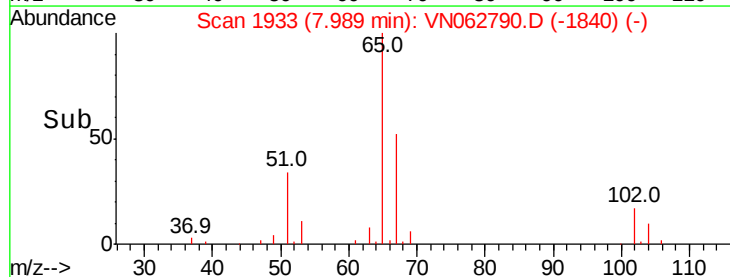
67 51.3 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062756.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062756.D (-1915) (-)

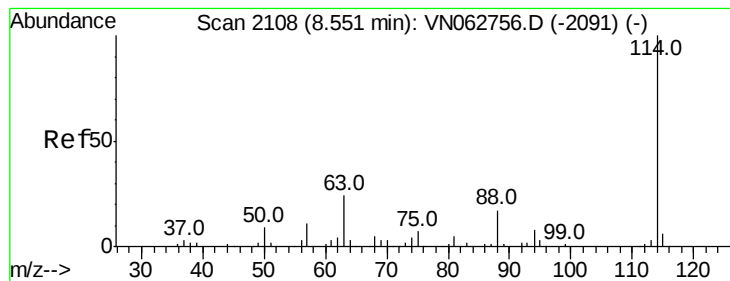
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN062790.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062790.D (-1840) (-)

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

TP-1

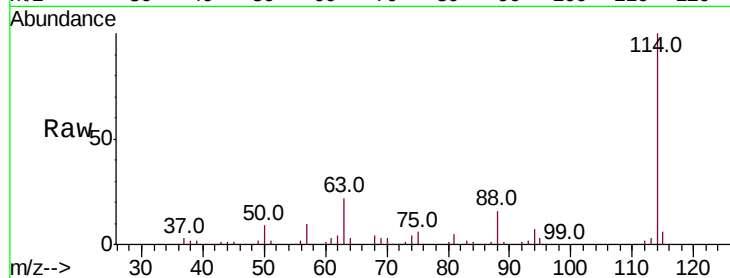
Tot Ion:114 Resp: 236936

Ion Ratio Lower Upper

114 100

63 21.7 0.0 47.6

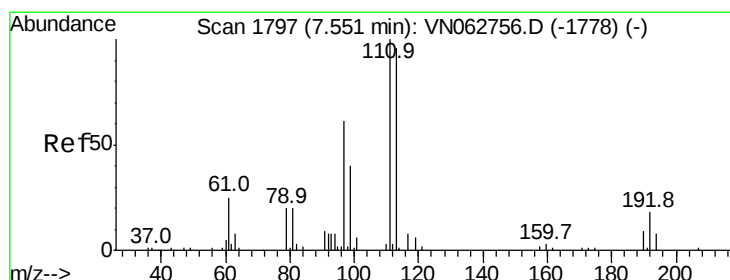
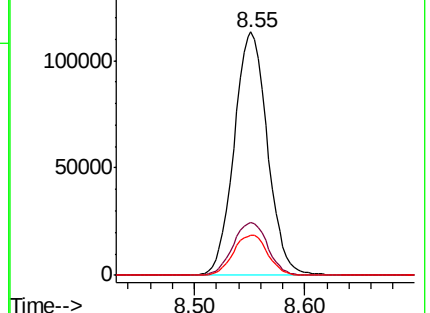
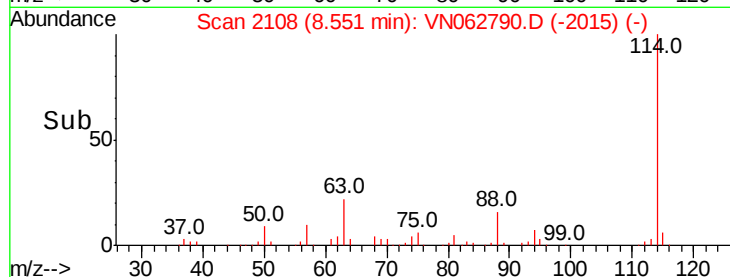
88 16.4 0.0 34.4



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: 50.253 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

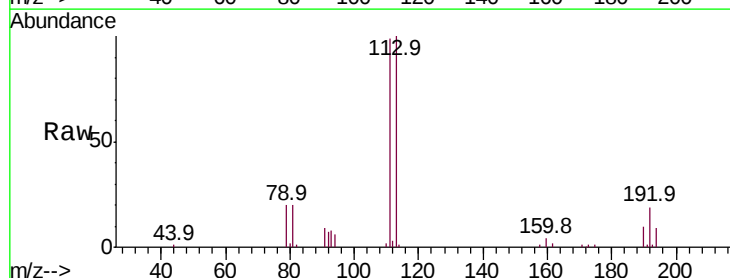
Tgt Ion:113 Resp: 81449

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.6

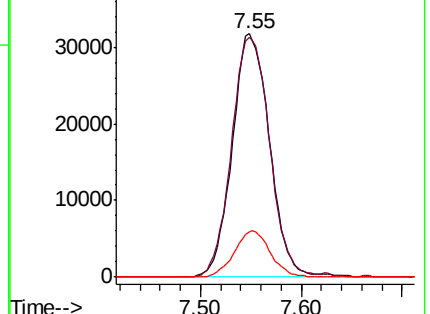
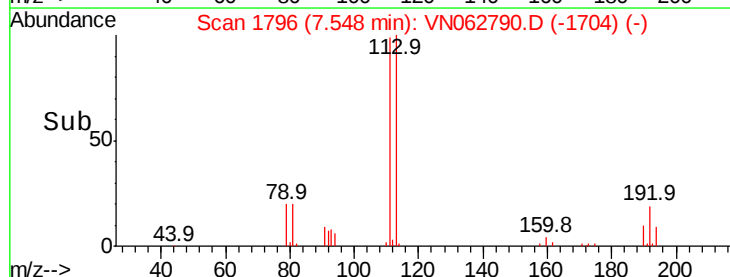
192 18.3 15.0 22.4

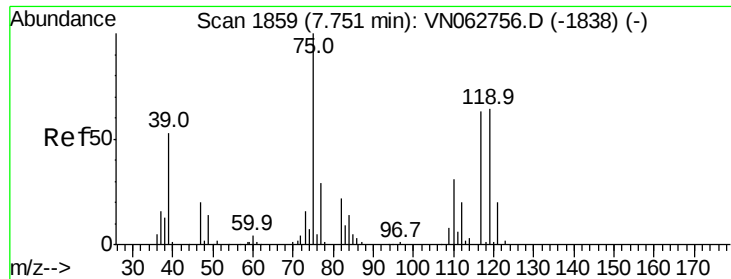


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

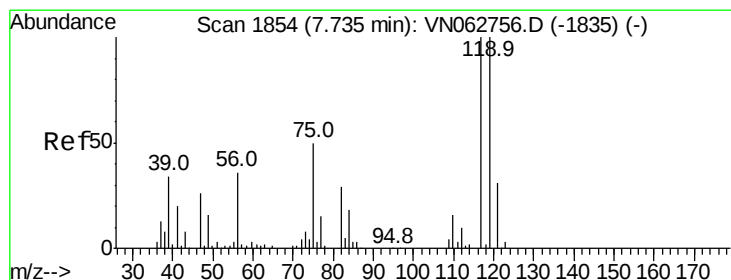
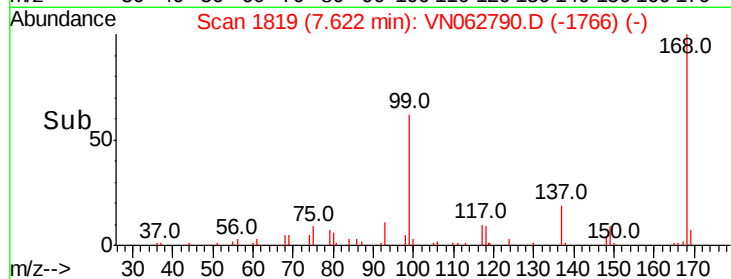
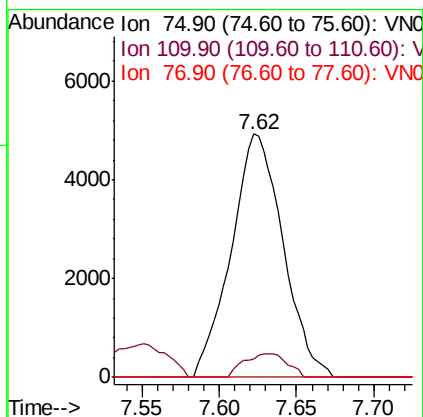
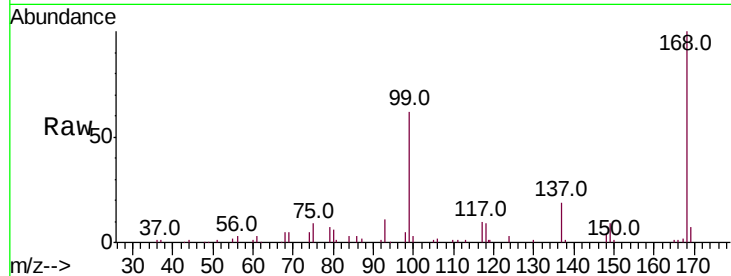




#36
 1,1-Dichloropropene
 Concen: 4.968 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

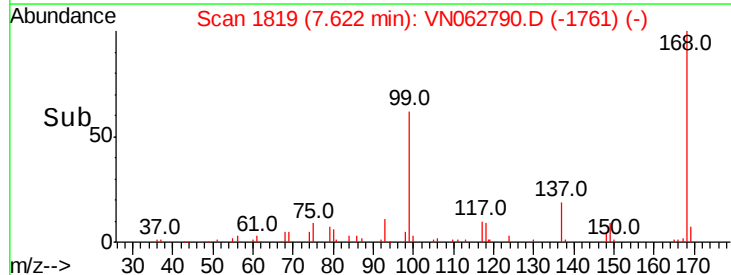
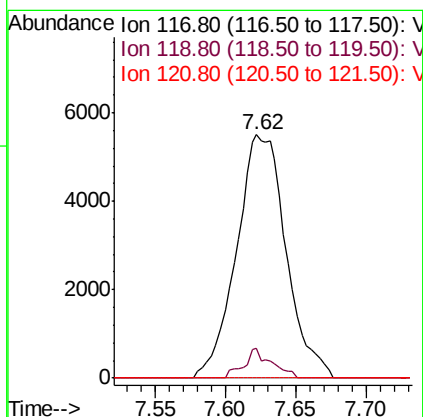
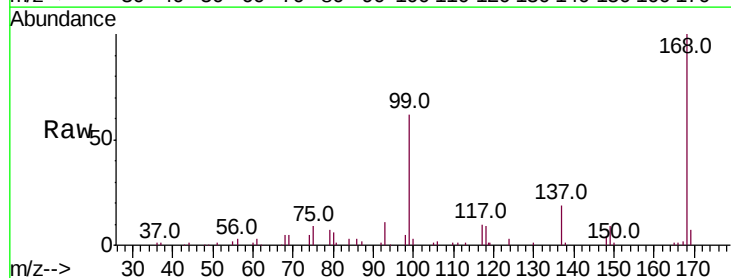
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

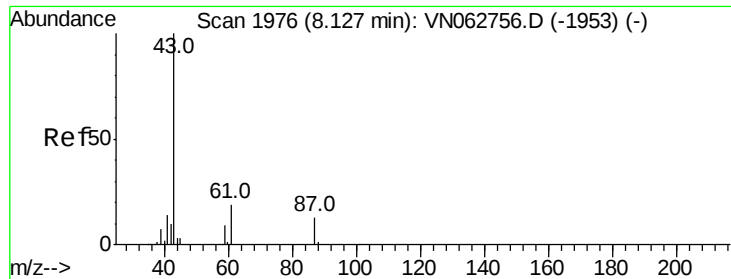
Tot Ion: 75 Resp: 11461
 Ion Ratio Lower Upper
 75 100
 110 8.0 15.6 46.7#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 4.949 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

Tgt Ion: 117 Resp: 13505
 Ion Ratio Lower Upper
 117 100
 119 12.4 79.4 119.2#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 10.967 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

TP-1

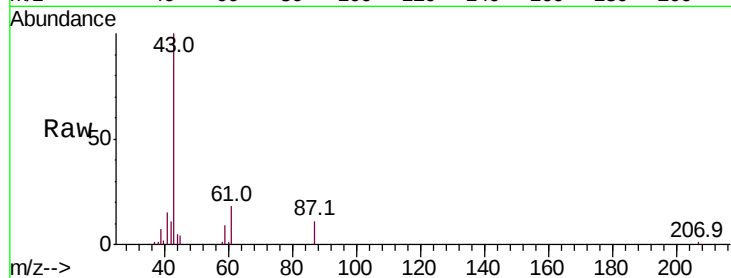
Tot Ion: 43 Resp: 44086

Ion Ratio Lower Upper

43 100

61 19.7 15.8 23.6

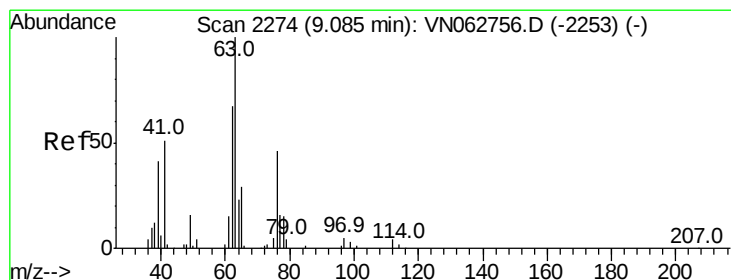
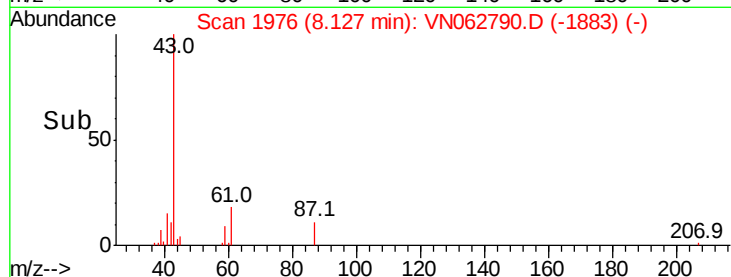
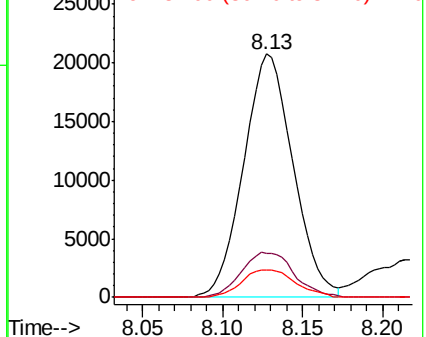
87 12.2 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062756.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062756.D (-1953) (-)



#45

1,2-Dichloropropane

Concen: 0.506 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062790.D

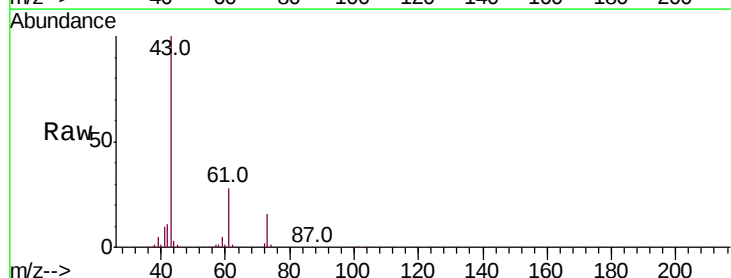
Acq: 7 Aug 2020 19:42

Tgt Ion: 63 Resp: 943

Ion Ratio Lower Upper

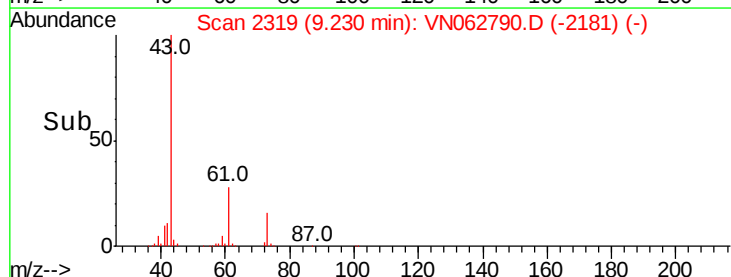
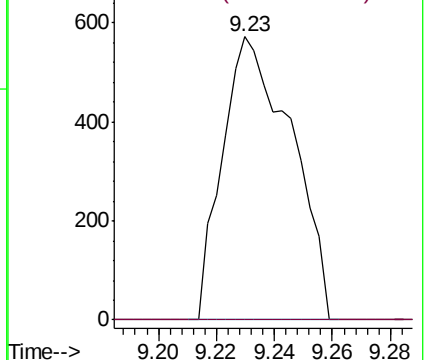
63 100

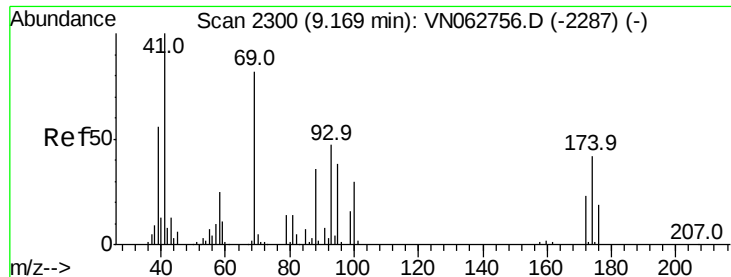
65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN062756.D (-2253) (-)

Ion 64.90 (64.60 to 65.60): VN062756.D (-2253) (-)

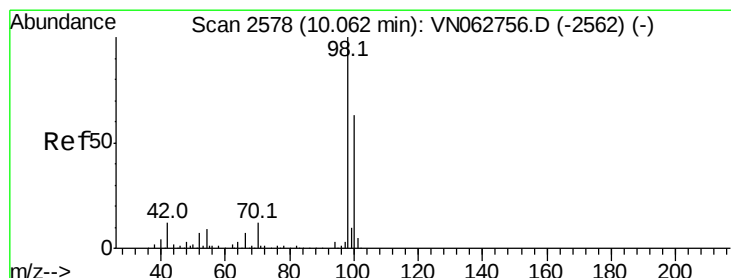
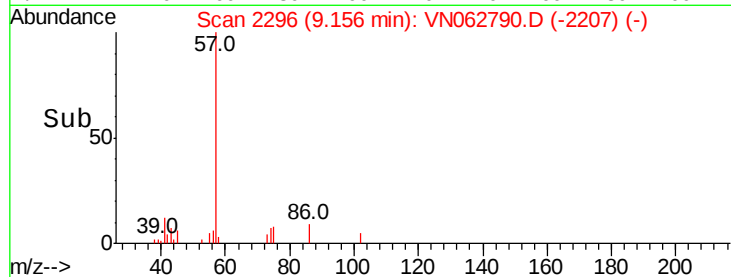
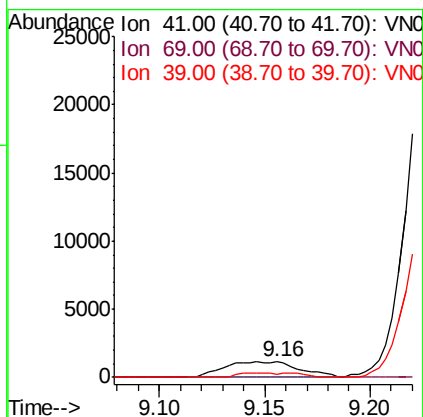
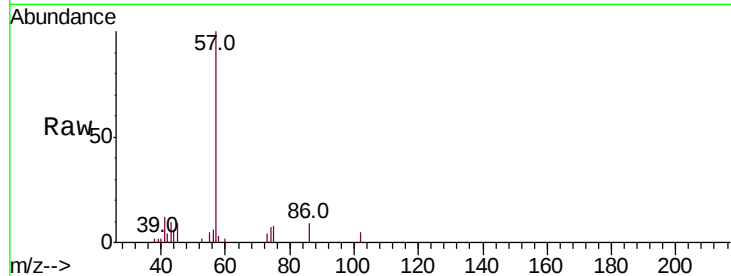




#48
Methvl methacrylate
Concen: 1.431 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.01 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

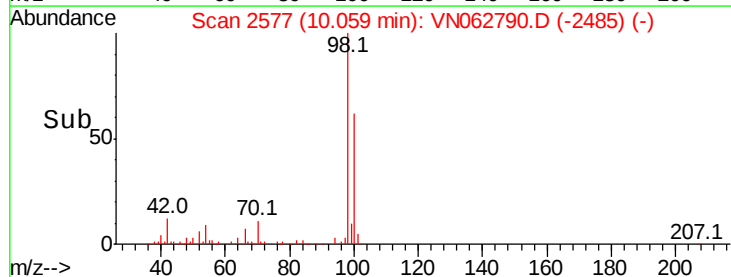
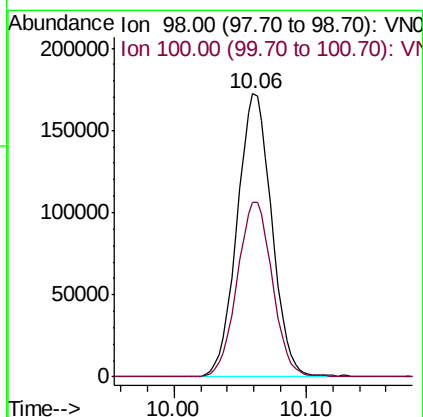
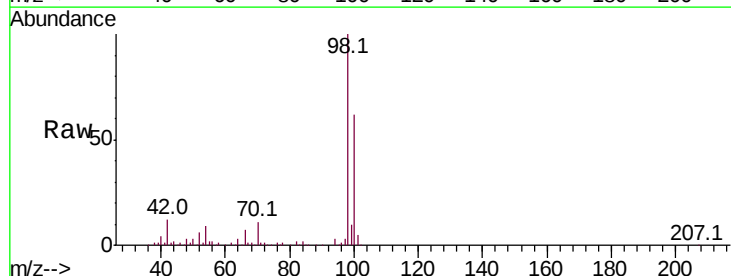
Instrument :
MSVOA_N
ClientSampled :
TP-1

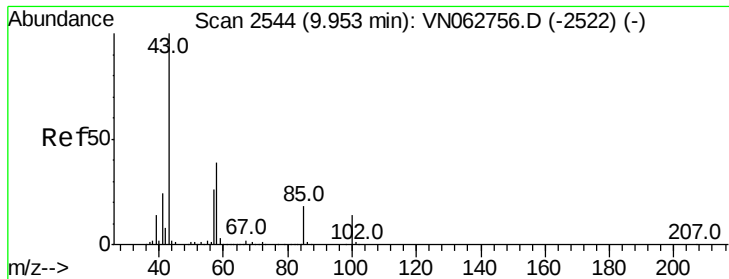
Tot Ion: 41 Resp: 2830
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#



#50
Toluene-d8
Concen: 49.346 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

Tgt Ion: 98 Resp: 312246
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3

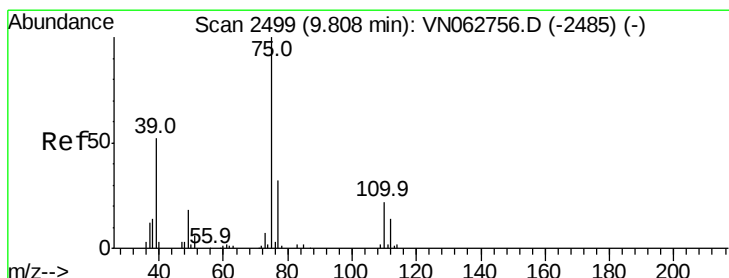
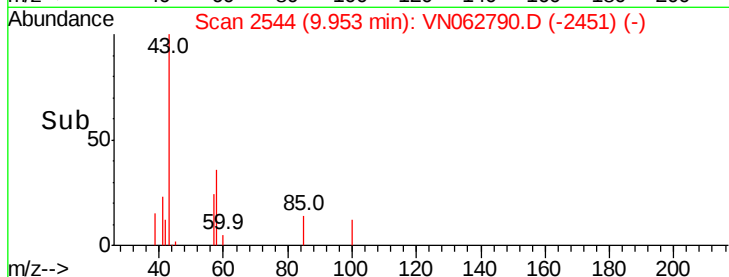
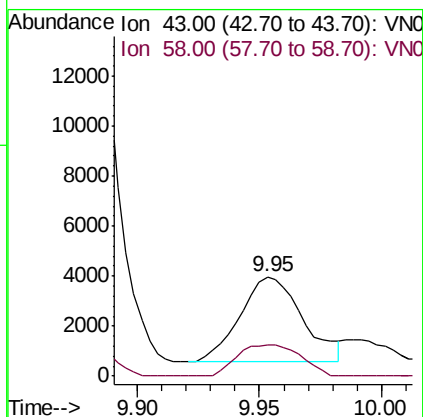
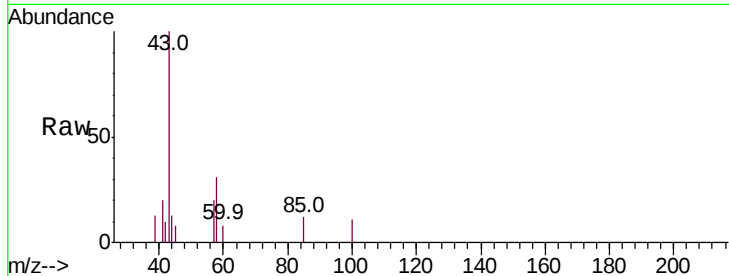




#51
 4-Methyl-2-Pentanone
 Concen: 2.341 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

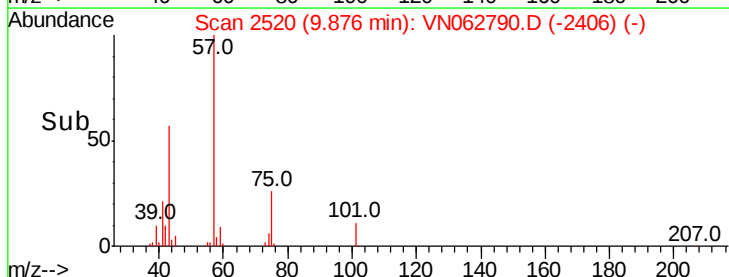
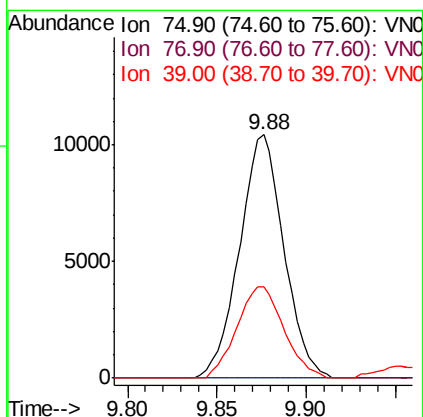
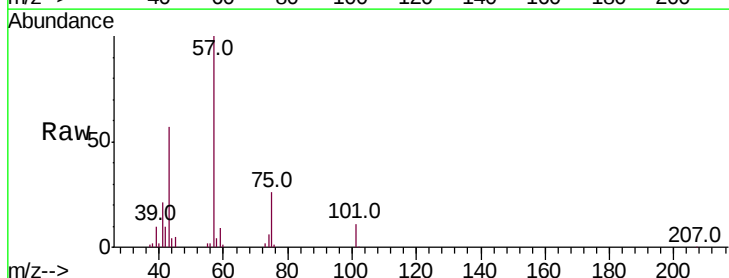
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1

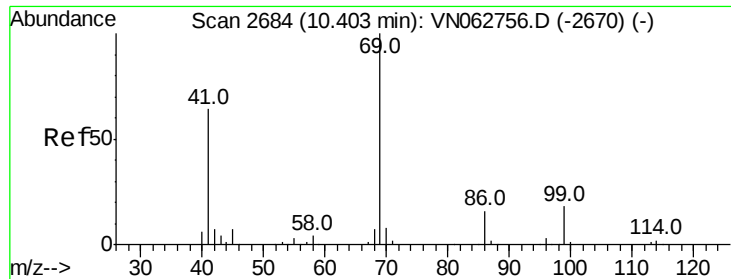
Tot Ion: 43 Resp: 6089
 Ion Ratio Lower Upper
 43 100
 58 37.1 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 5.986 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062790.D
 Acq: 7 Aug 2020 19:42

Tgt Ion: 75 Resp: 18127
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 37.3 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.441 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

TP-1

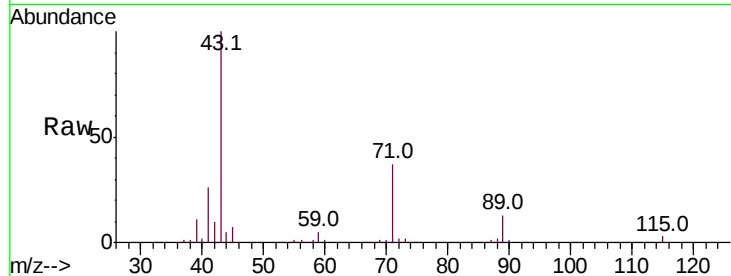
Tot Ion: 69 Resp: 1204

Ion Ratio Lower Upper

69 100

41 3266.5 52.2 78.2#

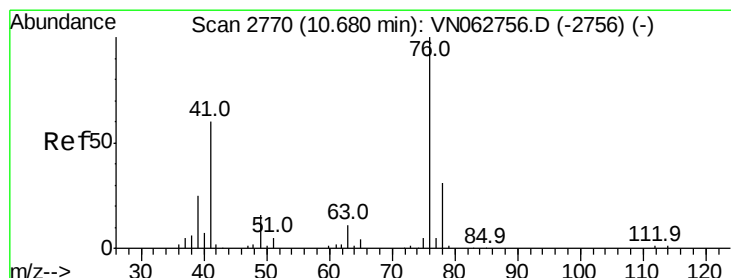
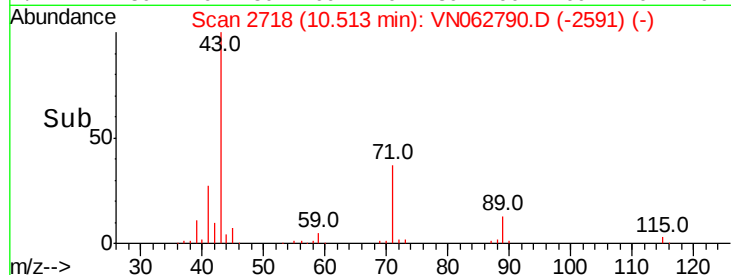
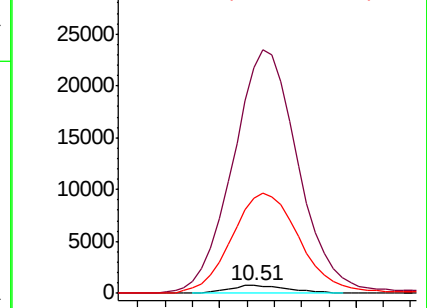
39 1394.7 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN062756.D (-2670) (-)

Ion 41.00 (40.70 to 41.70): VN062756.D (-2670) (-)

Ion 39.00 (38.70 to 39.70): VN062756.D (-2670) (-)



#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062790.D

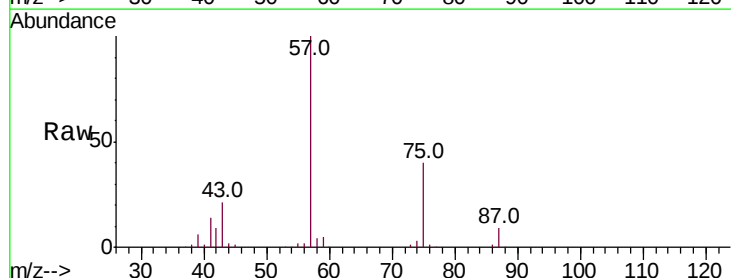
Acq: 7 Aug 2020 19:42

Tgt Ion: 76 Resp: 3102

Ion Ratio Lower Upper

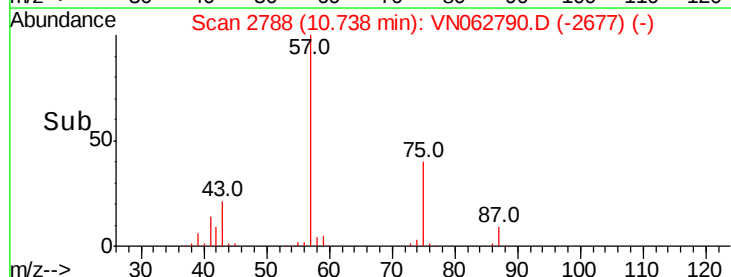
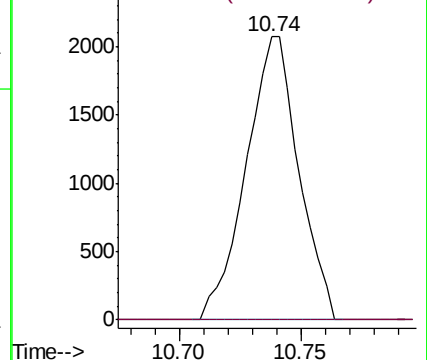
76 100

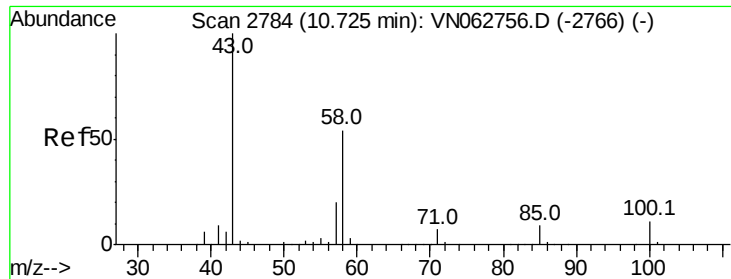
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN062756.D (-2756) (-)

Ion 77.90 (77.60 to 78.60): VN062756.D (-2756) (-)

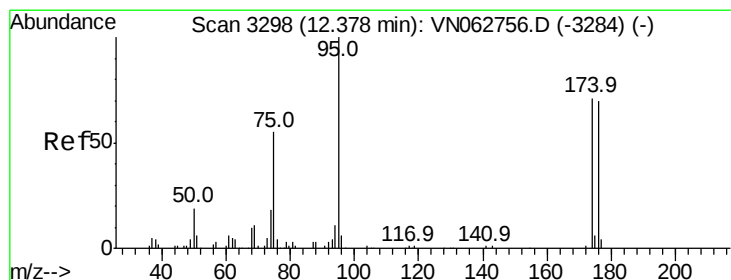
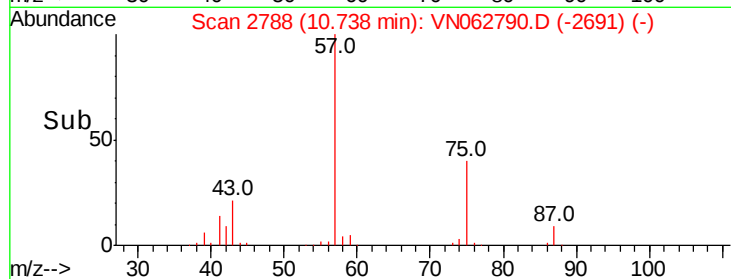
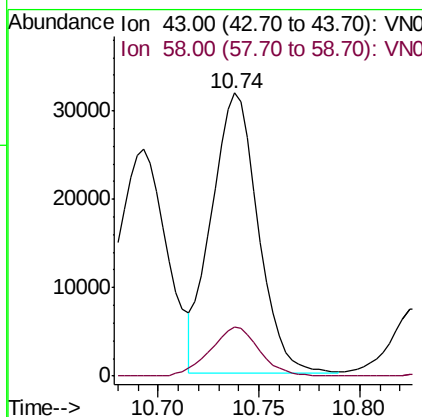
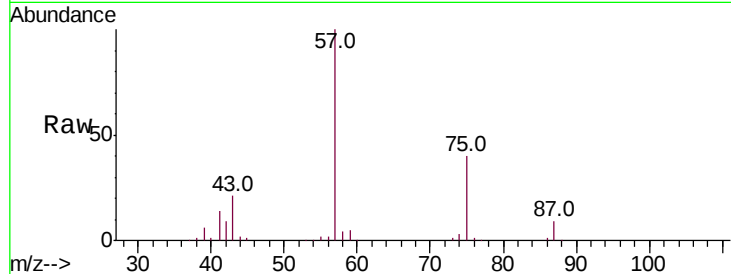




#59
2-Hexanone
Concen: 26.149 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

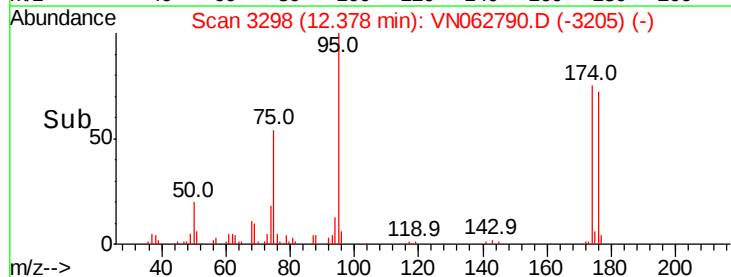
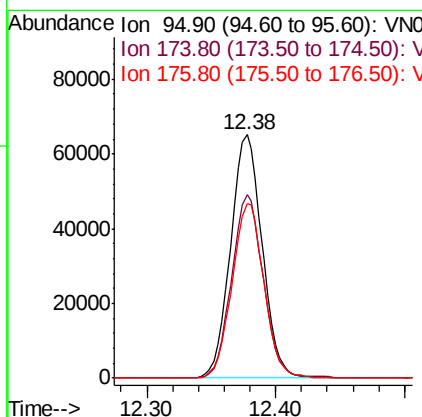
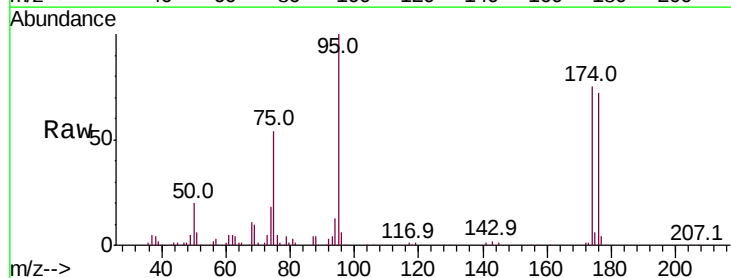
Instrument :
MSVOA_N
ClientSampled :
TP-1

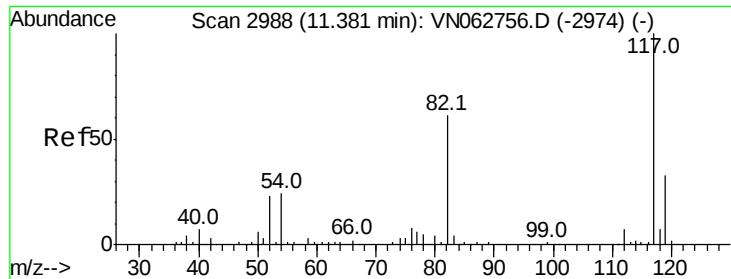
Tot Ion: 43 Resp: 50730
Ion Ratio Lower Upper
43 100
58 18.4 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 46.376 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

Tgt Ion: 95 Resp: 110895
Ion Ratio Lower Upper
95 100
174 75.1 0.0 144.8
176 72.1 0.0 142.2

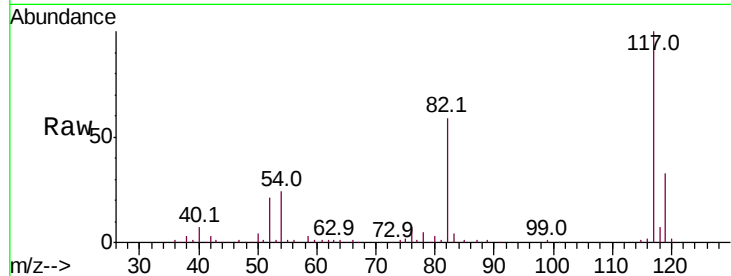




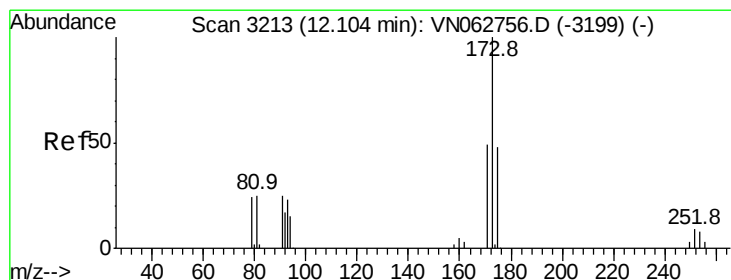
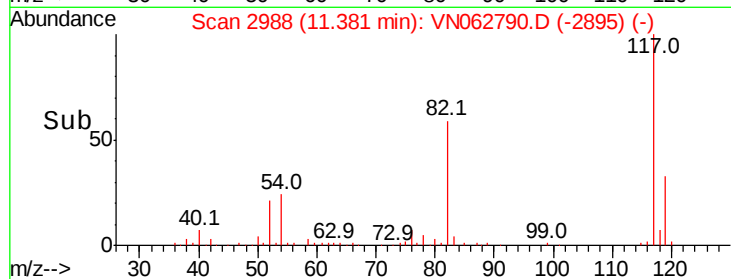
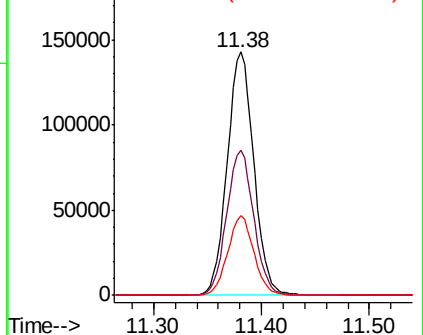
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

Instrument :
MSVOA_N
ClientSampled :
TP-1

Tot Ion:117 Resp: 244943
Ion Ratio Lower Upper
117 100
82 59.3 49.0 73.4
119 32.6 26.2 39.2

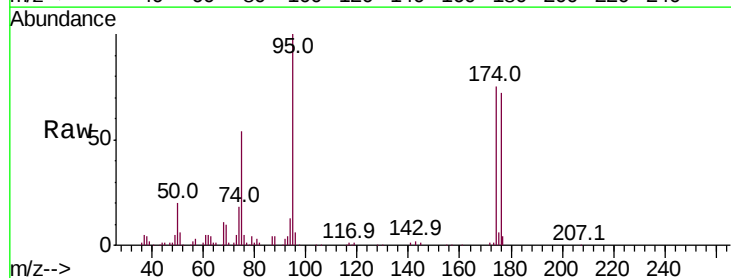


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

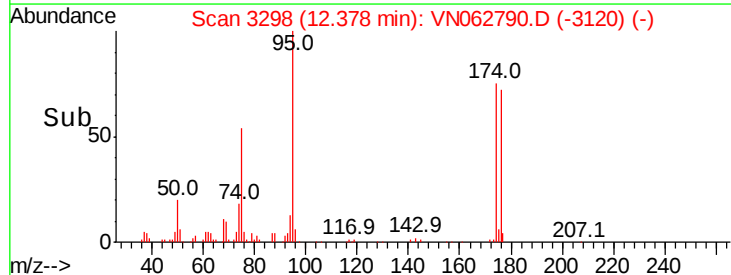
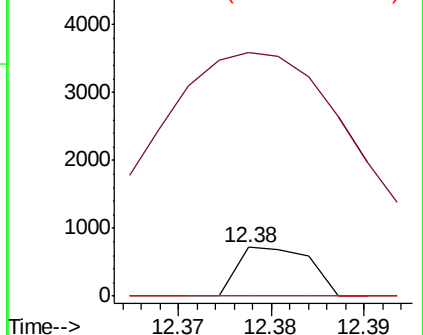


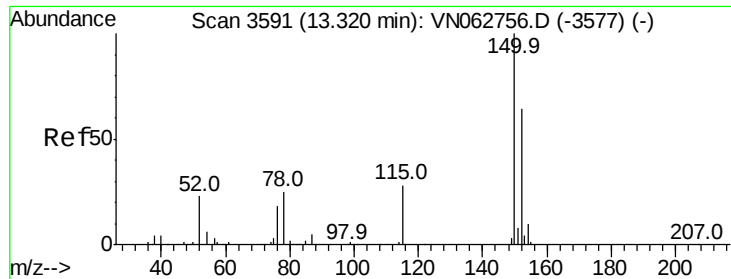
#71
Bromoform
Concen: 0.231 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.27 min
Lab File: VN062790.D
Acq: 7 Aug 2020 19:42

Tgt Ion:173 Resp: 388
Ion Ratio Lower Upper
173 100
175 1430.7 24.0 72.0#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

TP-1

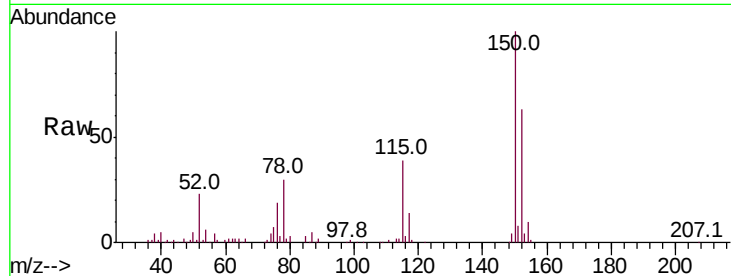
Tot Ion:152 Resp: 86200

Ion Ratio Lower Upper

152 100

115 63.0 31.6 94.8

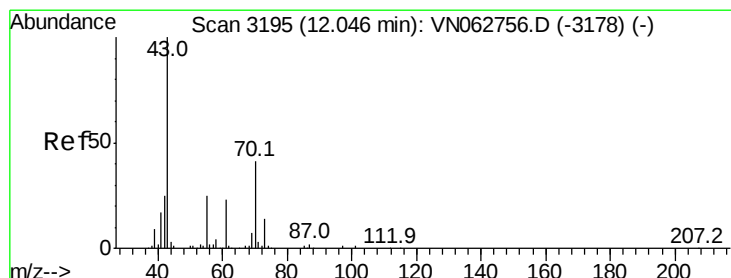
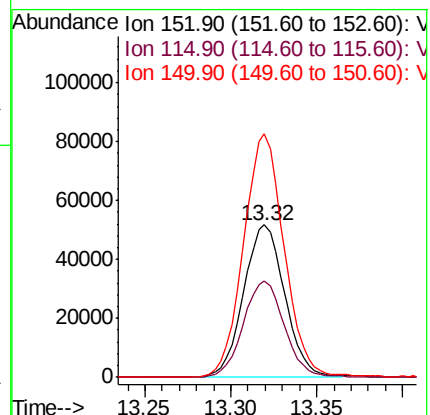
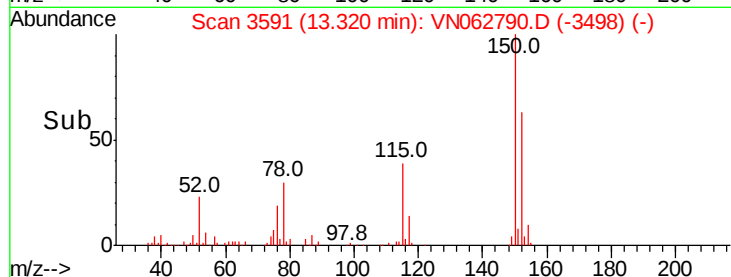
150 157.8 0.0 349.2



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-ethyl acetate

Concen: 0.693 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Tgt Ion: 43 Resp: 1824

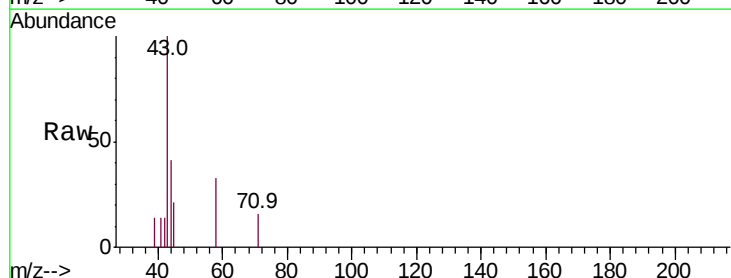
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

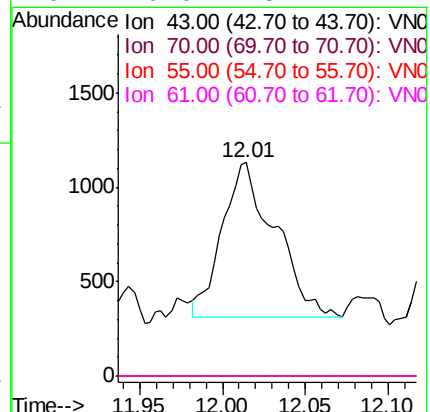
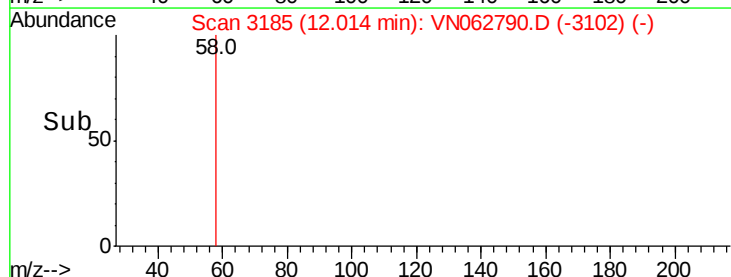


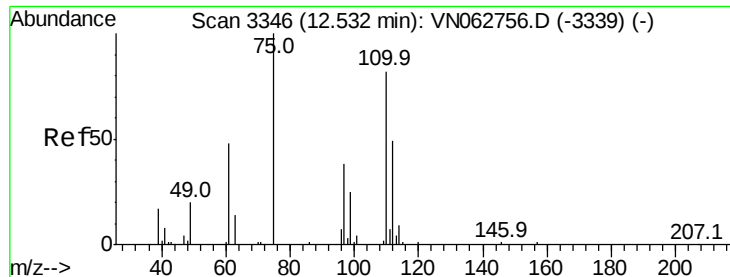
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.672 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

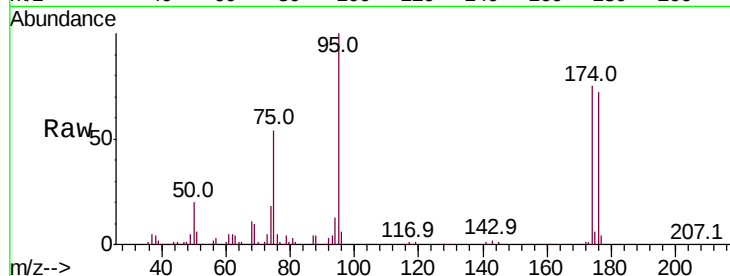
TP-1

Tot Ion: 75 Resp: 59681

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.38

40000

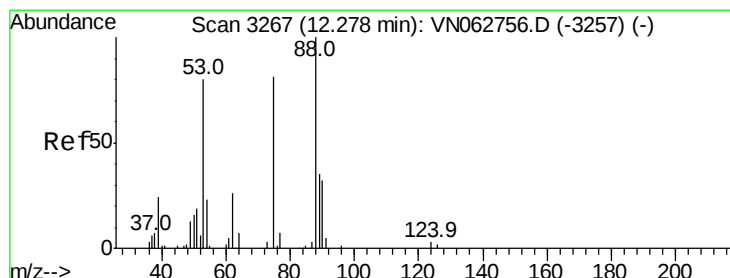
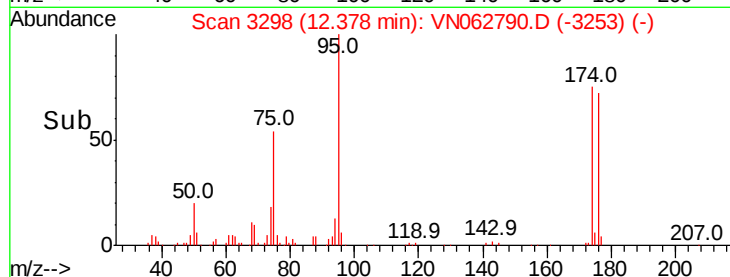
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 78.371 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062790.D

Acq: 7 Aug 2020 19:42

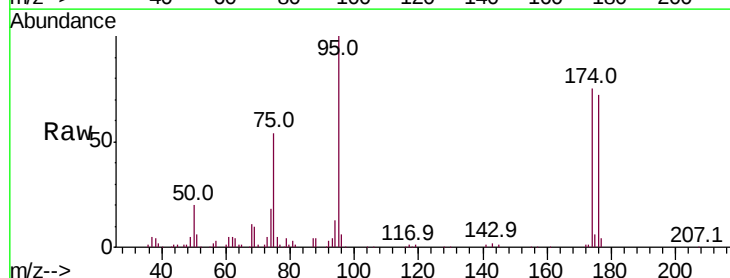
Tgt Ion: 75 Resp: 59681

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.38

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

