

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072820\
 Data File : VN062637.D
 Acq On : 28 Jul 2020 17:31
 Operator : JC/MD
 Sample : L3181-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 29 04:28:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	151816	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	277850	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	252334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91095	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	130849	55.48	ug/l	0.00
Spiked Amount			Recovery	=	110.96%	
35) Dibromofluoromethane	7.55	113	92565	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.06	98	368469	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	12.38	95	122035	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	

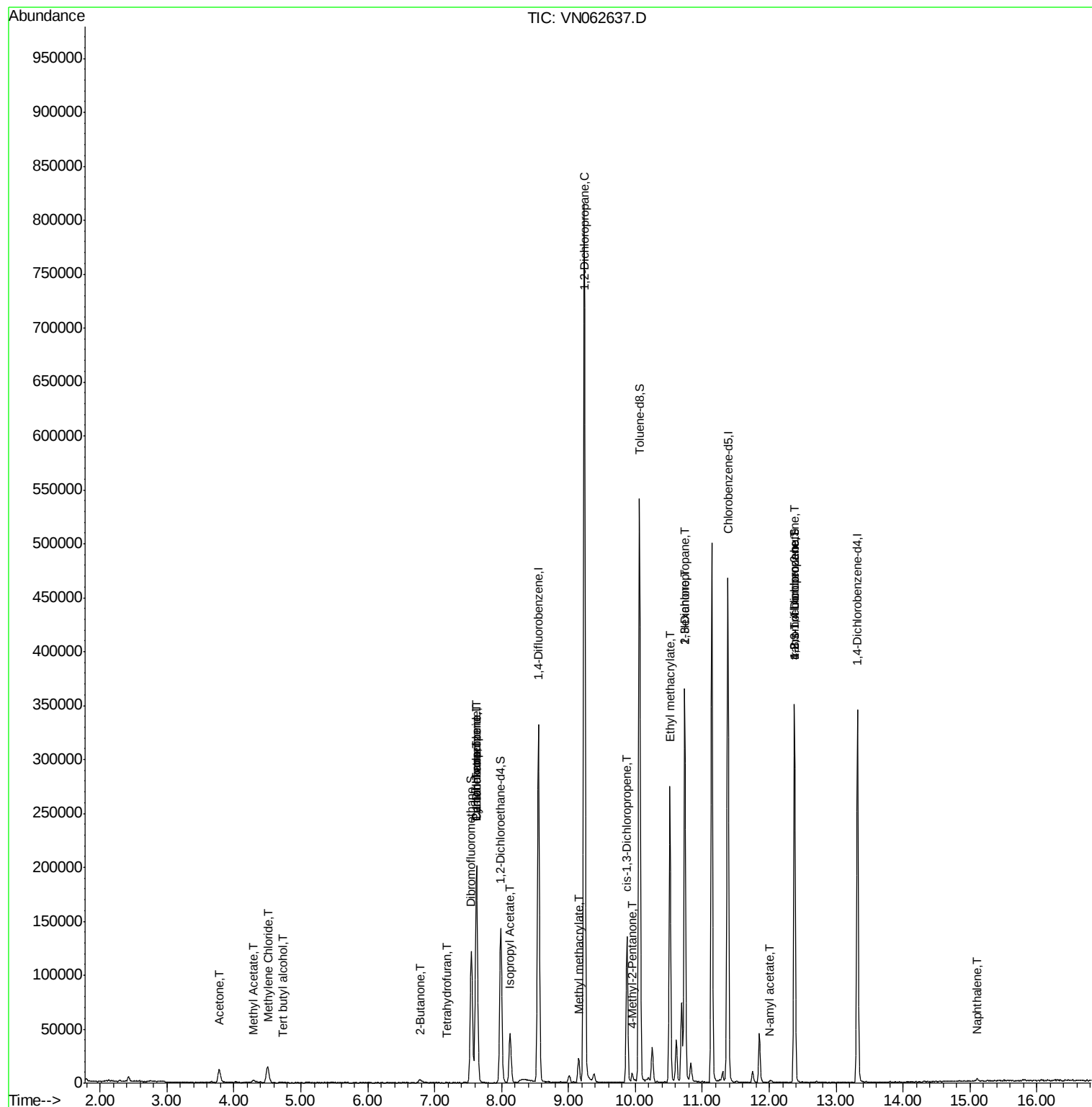
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	231	0.616	ug/l #	73
16) Acetone	3.78	43	21635	24.378	ug/l	98
18) Methyl Acetate	4.28	43	4530	2.016	ug/l #	64
20) Methylene Chloride	4.50	84	10907	5.124	ug/l	97
25) 2-Butanone	6.80	43	1852	1.370	ug/l #	52
29) Tetrahydrofuran	7.18	42	336	0.367	ug/l #	38
31) Cyclohexane	7.63	56	3665	1.055	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	14116	4.766	ug/l #	50
38) Carbon Tetrachloride	7.63	117	16320	5.733	ug/l #	17
43) Isopropyl Acetate	8.13	43	54328	10.556	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	932	0.370	ug/l #	44
48) Methyl methacrylate	9.15	41	3363	1.375	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4529	1.471	ug/l #	83
54) cis-1,3-Dichloropropene	9.88	75	23133	6.144	ug/l #	63
56) Ethyl methacrylate	10.51	69	1150	2.075	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3495	0.945	ug/l #	42
59) 2-Hexanone	10.74	43	54970	25.768	ug/l #	53
74) N-amyl acetate	12.01	43	1252	0.389	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	67915	29.290	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	67915	81.537	ug/l #	12
95) Naphthalene	15.11	128	2726	4.384	ug/l #	84

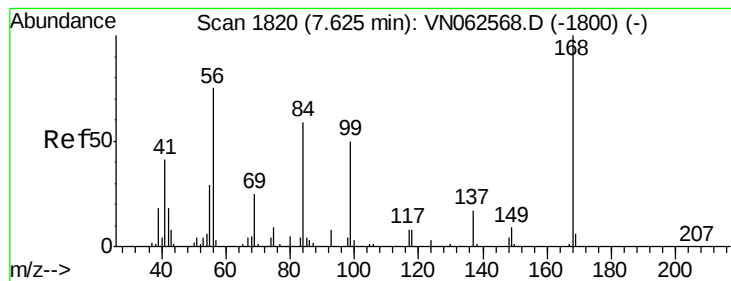
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072820\
Data File : VN062637.D
Acq On : 28 Jul 2020 17:31
Operator : JC/MD
Sample : L3181-13
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 29 04:28:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 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: VN062637.D

Acq: 28 Jul 2020 17:31

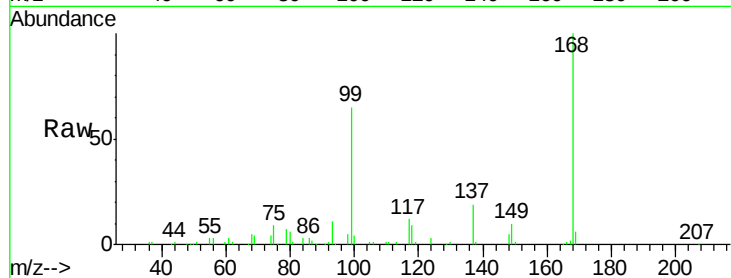
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 151816

Ion Ratio Lower Upper

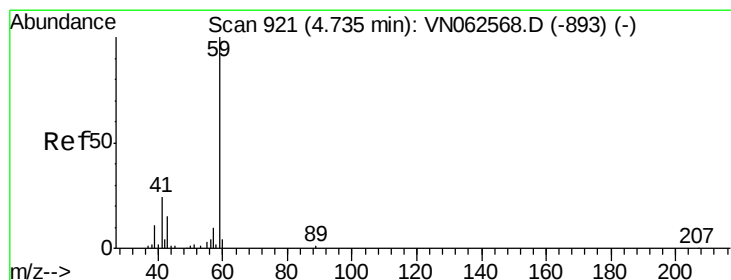
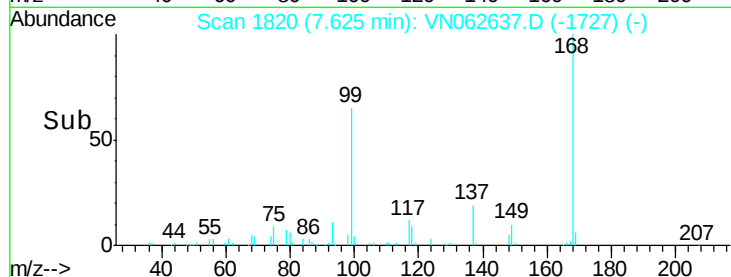
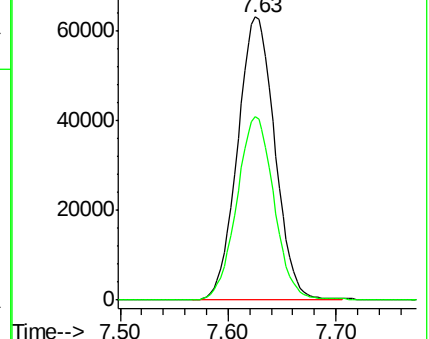
168 100

99 64.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.616 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062637.D

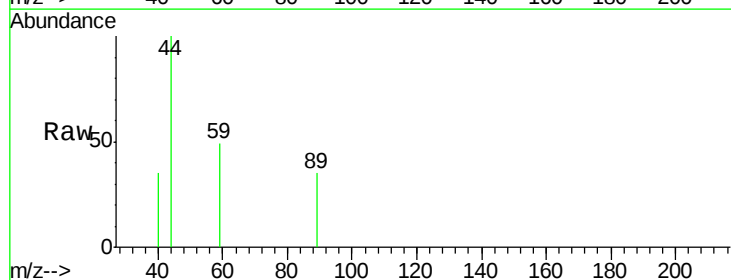
Acq: 28 Jul 2020 17:31

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

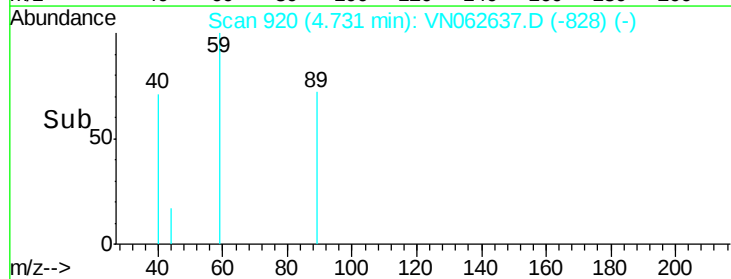
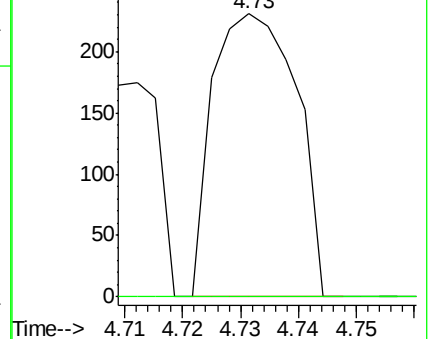
59 100

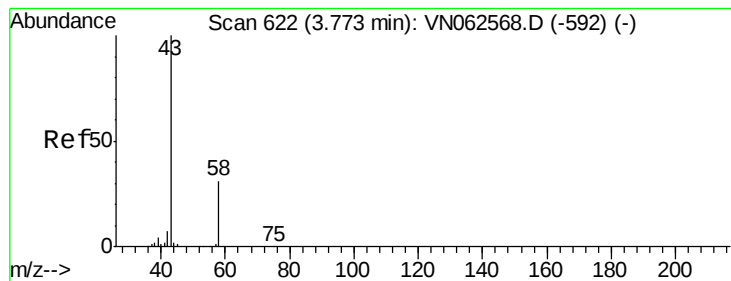
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 24.378 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

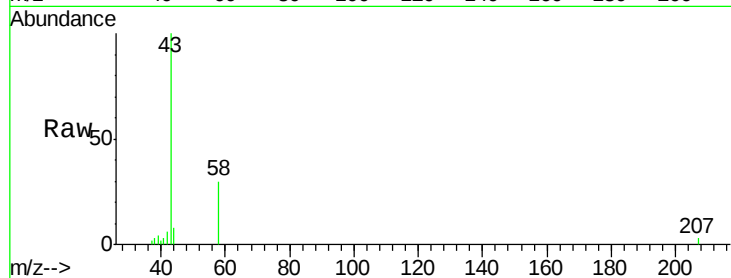
ClientSampleId :

Tot Ion: 43 Resp: 21635

Ion Ratio Lower Upper

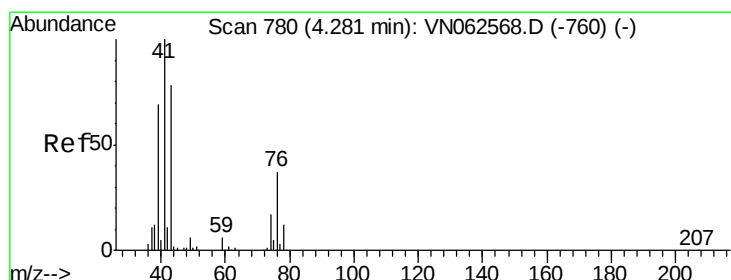
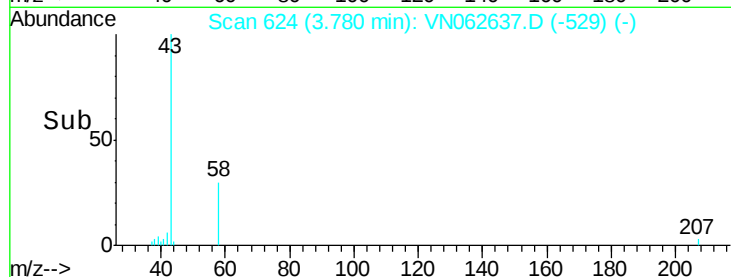
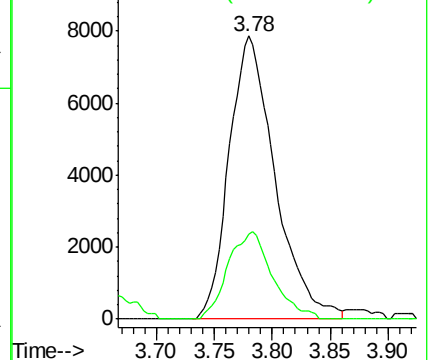
43 100

58 30.0 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.016 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.00 min

Lab File: VN062637.D

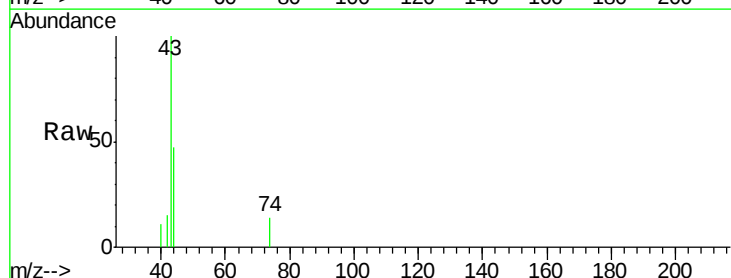
Acq: 28 Jul 2020 17:31

Tgt Ion: 43 Resp: 4530

Ion Ratio Lower Upper

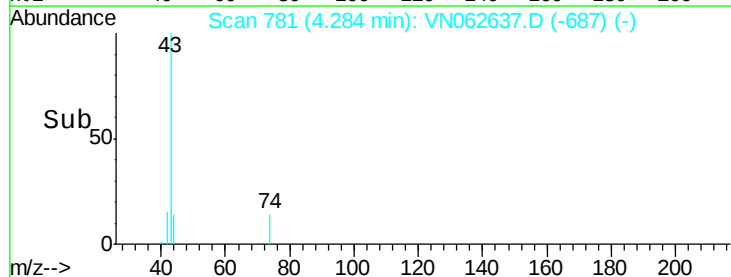
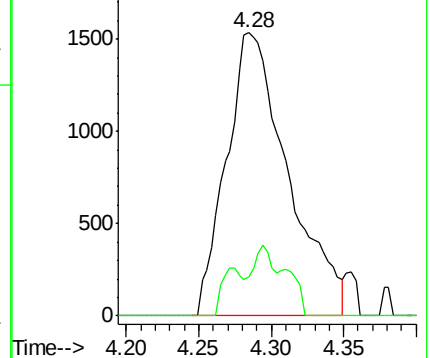
43 100

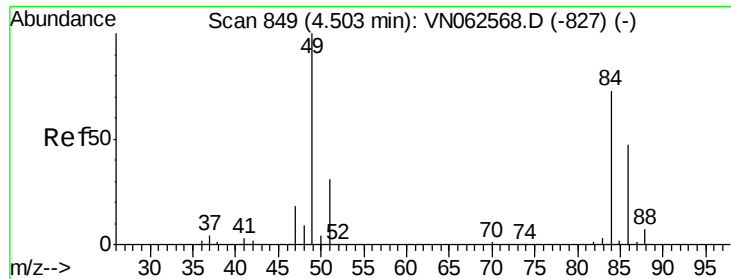
74 4.0 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

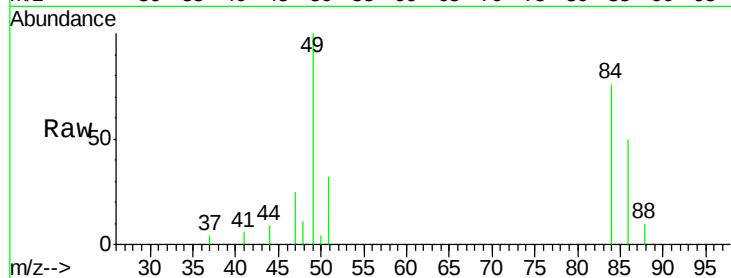




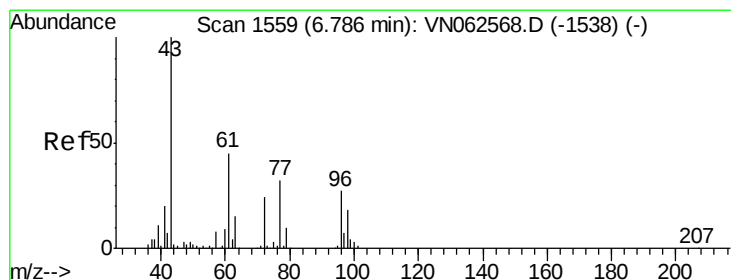
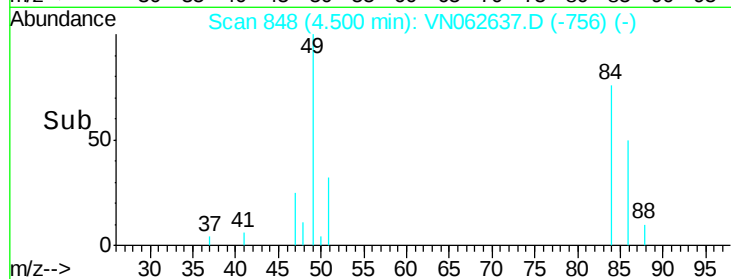
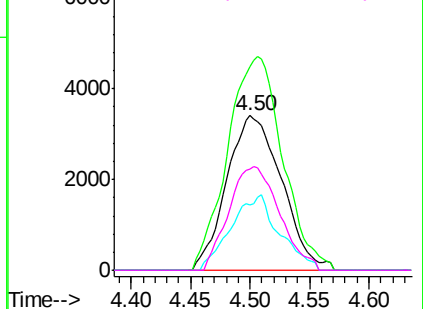
#20
Methvlene Chloride
Concen: 5.124 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062637.D
Acq: 28 Jul 2020 17:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	10907
Ion	Ratio	Lower	Upper
84	100		
49	131.5	109.4	164.0
51	42.1	33.6	50.4
86	65.8	51.4	77.2

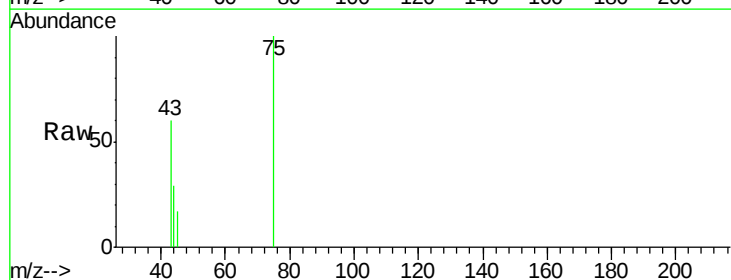


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

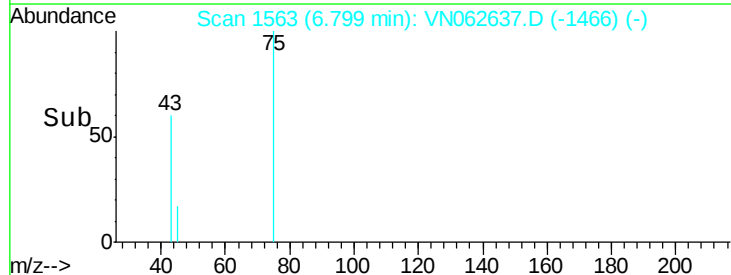
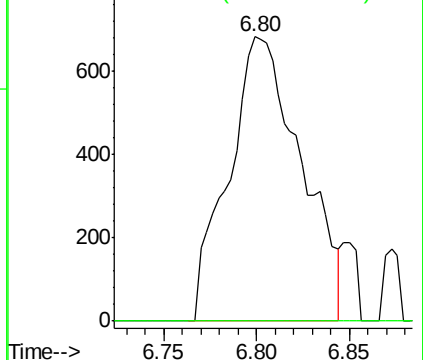


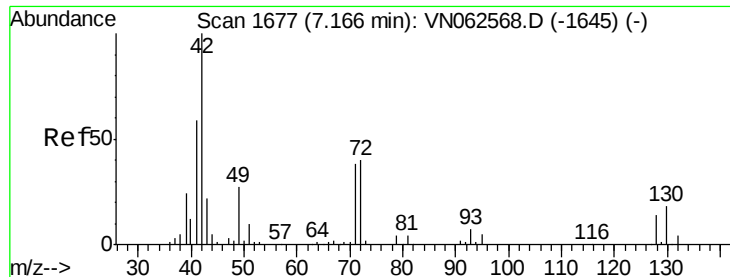
#25
2-Butanone
Concen: 1.370 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062637.D
Acq: 28 Jul 2020 17:31

Tgt Ion:	43	Resp:	1852
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.0	28.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.367 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.02 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

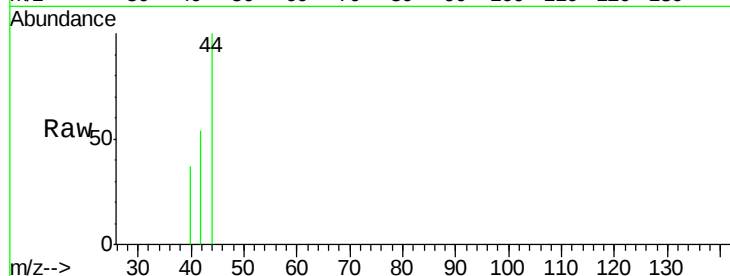
Tot Ion: 42 Resp: 336

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 29.1 43.7#



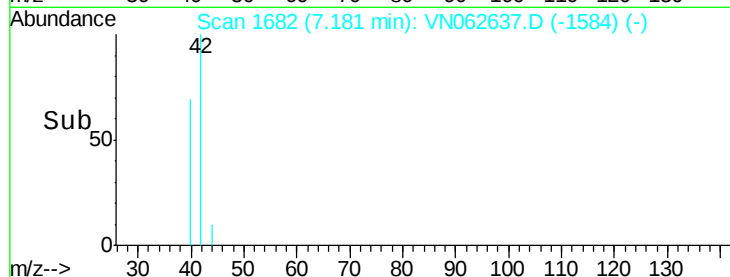
Abundance Ion 42.00 (41.70 to 42.70): VN062568.D (-1645) (-)

Ion 72.00 (71.70 to 72.70): VN062568.D (-1645) (-)

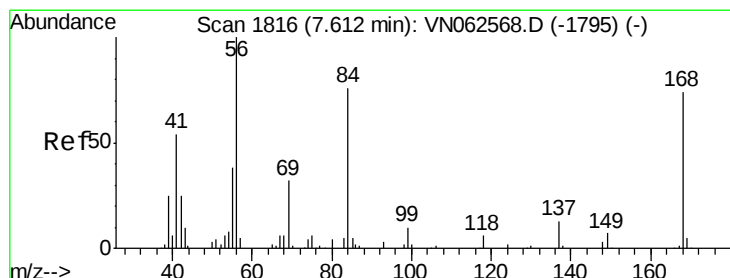
Ion 71.00 (70.70 to 71.70): VN062568.D (-1645) (-)

7.18

Time-->



Time-->



#31

Cyclohexane

Concen: 1.055 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

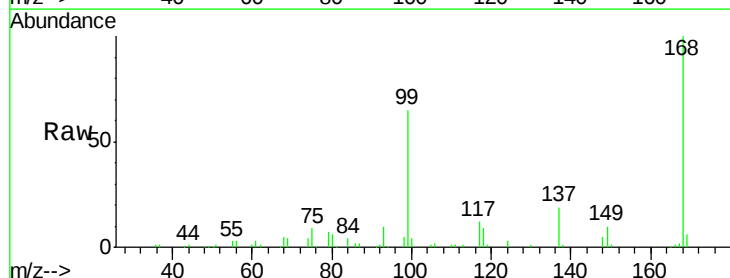
Tgt Ion: 56 Resp: 3665

Ion Ratio Lower Upper

56 100

69 153.6 25.3 37.9#

84 126.7 61.0 91.4#



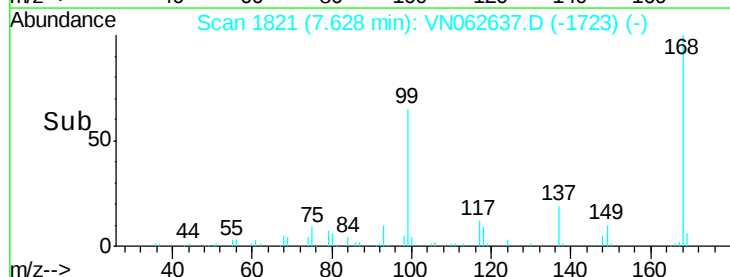
Abundance Ion 56.00 (55.70 to 56.70): VN062568.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062568.D (-1795) (-)

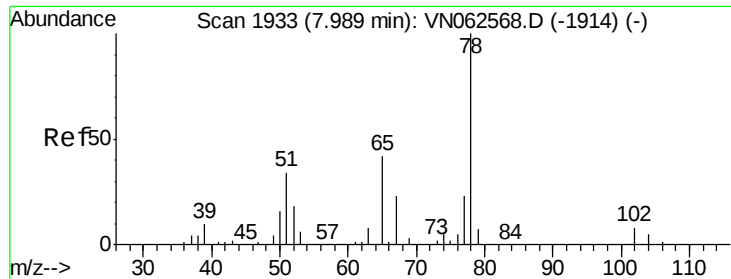
Ion 84.00 (83.70 to 84.70): VN062568.D (-1795) (-)

7.63

Time-->



Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.482 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

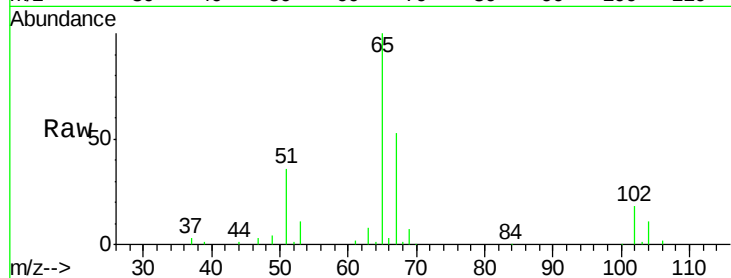
ClientSampleId :

Tot Ion: 65 Resp: 130849

Ion Ratio Lower Upper

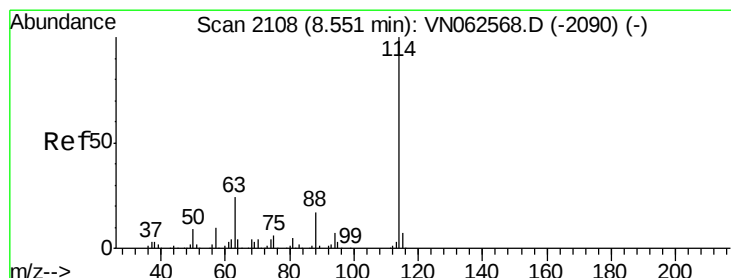
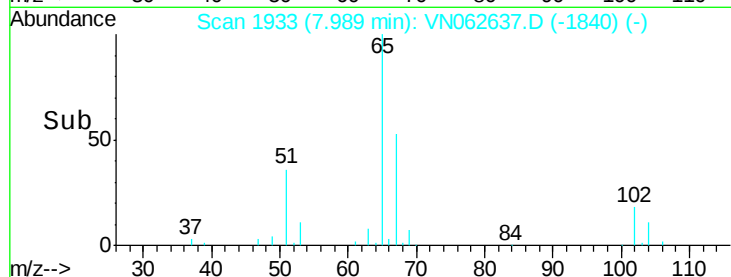
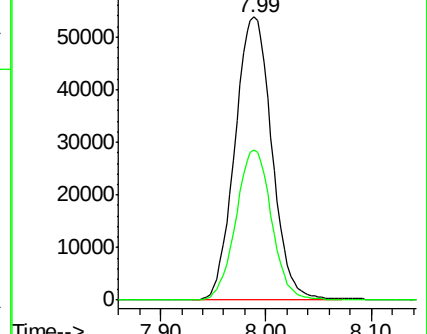
65 100

67 51.0 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062568.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN062568.D (-1914) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

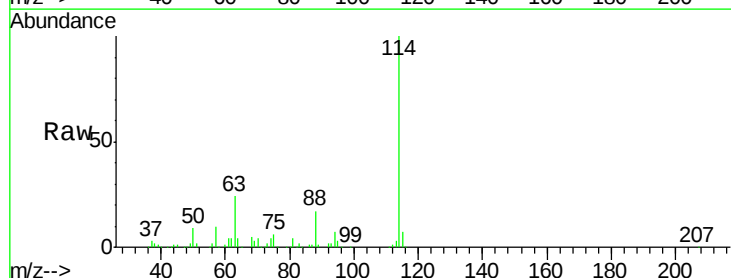
Tgt Ion: 114 Resp: 277850

Ion Ratio Lower Upper

114 100

63 24.0 0.0 48.4

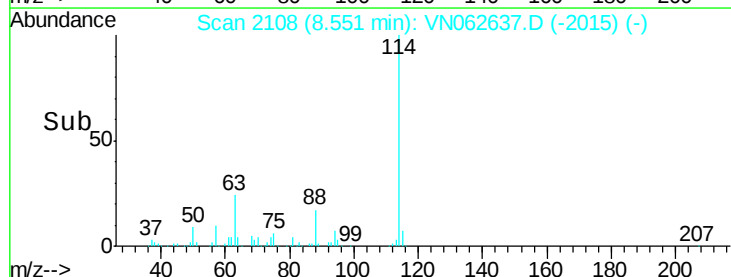
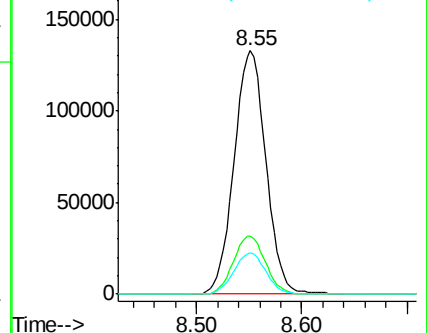
88 17.1 0.0 33.8

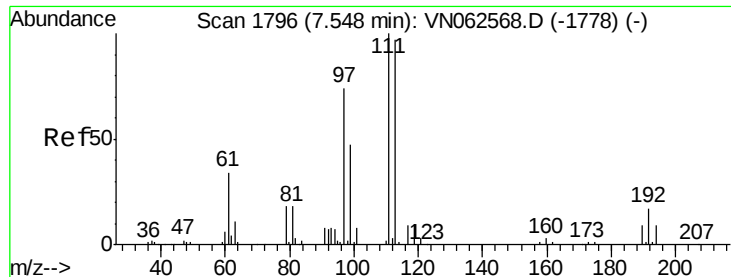


Abundance Ion 113.90 (113.60 to 114.60): VN062568.D (-2090) (-)

Ion 63.00 (62.70 to 63.70): VN062568.D (-2090) (-)

Ion 87.90 (87.60 to 88.60): VN062568.D (-2090) (-)

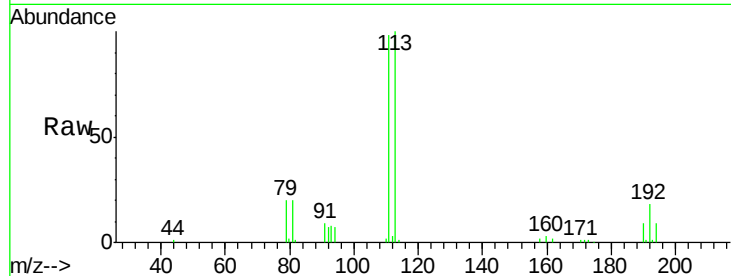




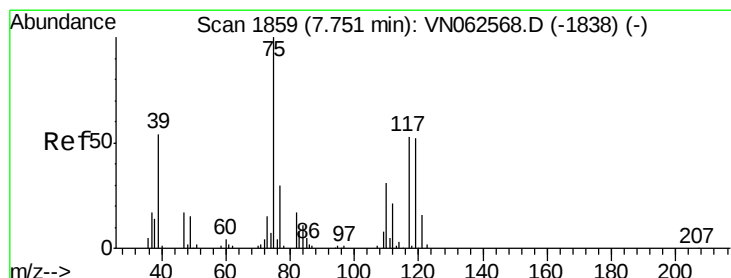
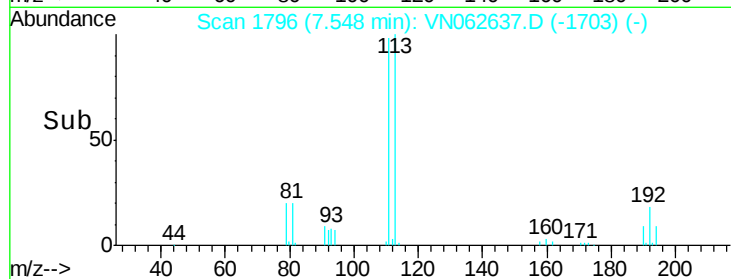
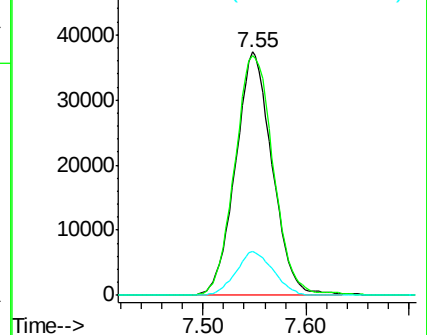
#35
 Dibromofluoromethane
 Concen: 50.718 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 92565
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.7 124.1
 192 18.3 14.8 22.2

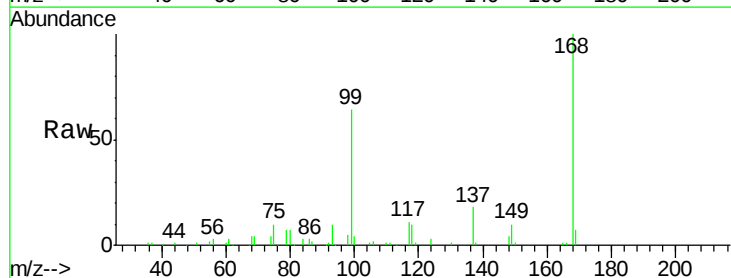


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

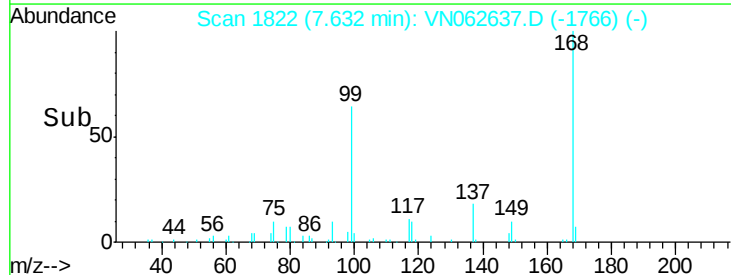
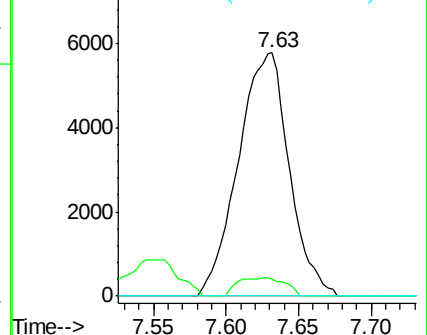


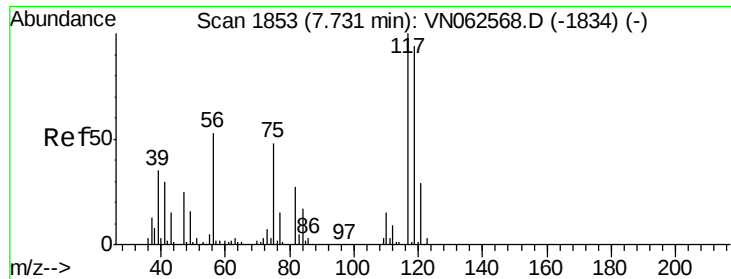
#36
 1,1-Dichloropropene
 Concen: 4.766 ug/l
 RT: 7.63 min Scan# 1822
 Delta R.T. -0.12 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

Tgt Ion: 75 Resp: 14116
 Ion Ratio Lower Upper
 75 100
 110 7.0 16.0 48.0#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.733 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampled :

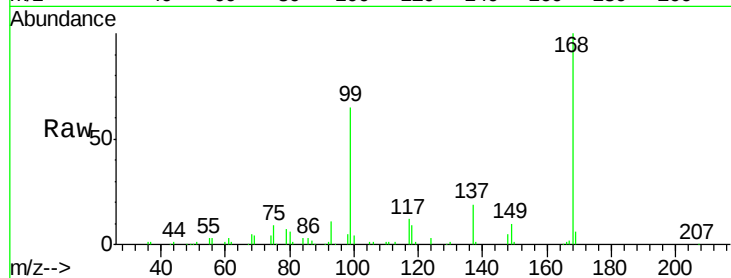
Tot Ion:117 Resp: 16320

Ion Ratio Lower Upper

117 100

119 5.7 74.8 112.2#

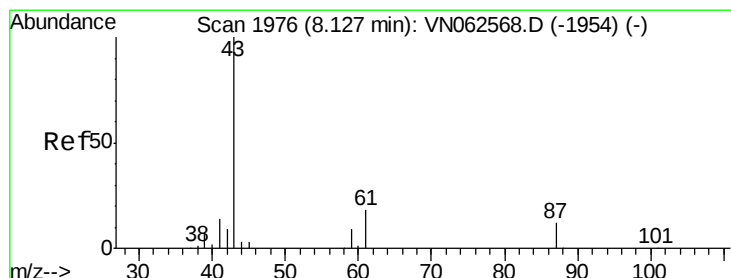
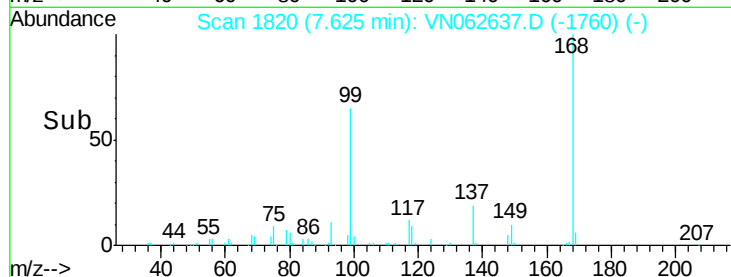
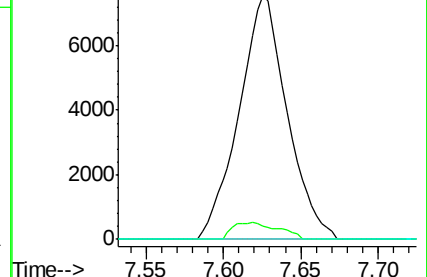
121 0.0 23.0 34.6#



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: 10.556 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

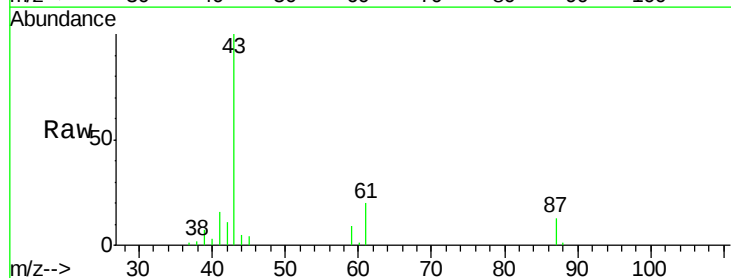
Tgt Ion: 43 Resp: 54328

Ion Ratio Lower Upper

43 100

61 19.1 20.8 31.2#

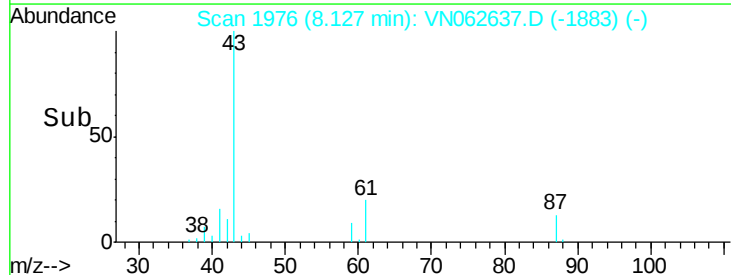
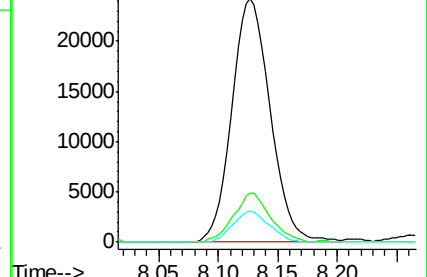
87 11.9 9.2 13.8

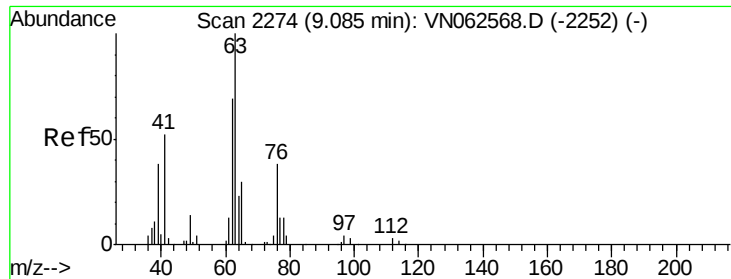


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

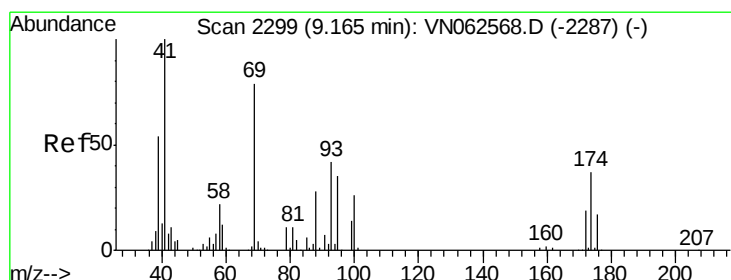
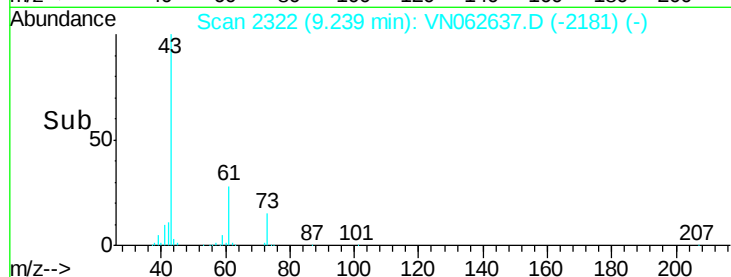
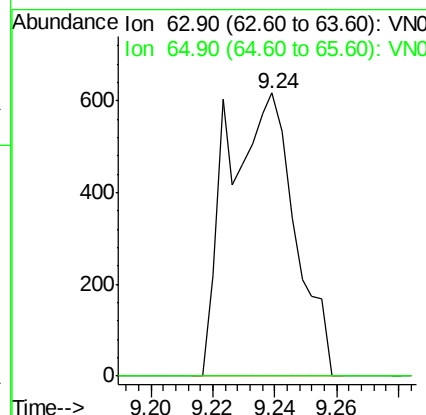
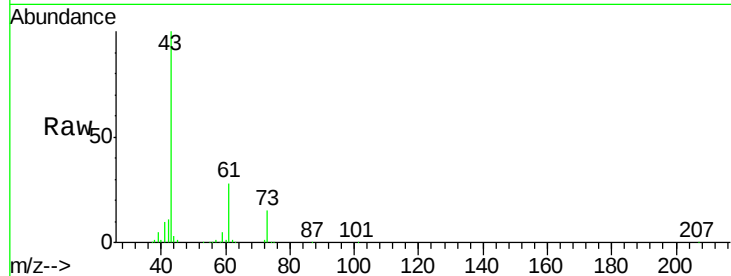




#45
 1,2-Dichloropropane
 Concen: 0.370 ug/l
 RT: 9.24 min Scan# 2322
 Delta R.T. 0.15 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

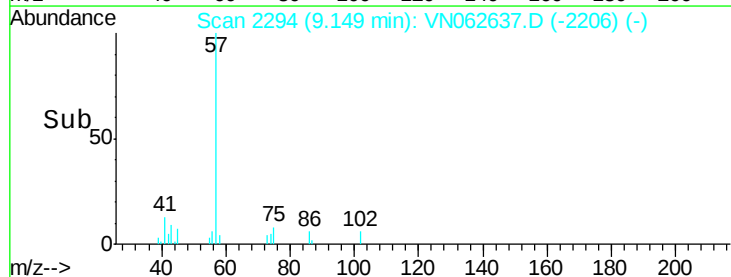
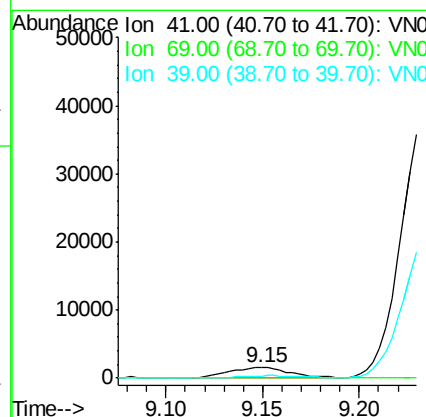
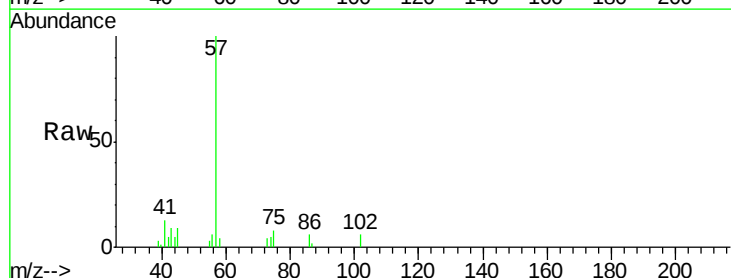
Instrument :
 MSVOA_N
 ClientSampleId :

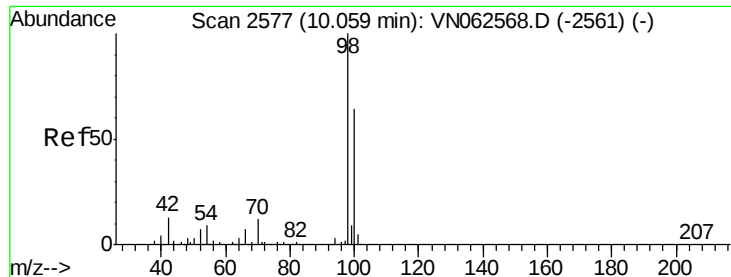
Tot Ion: 63 Resp: 932
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.375 ug/l
 RT: 9.15 min Scan# 2294
 Delta R.T. -0.02 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

Tgt Ion: 41 Resp: 3363
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#

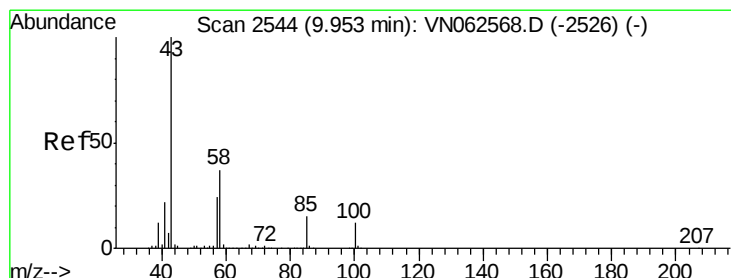
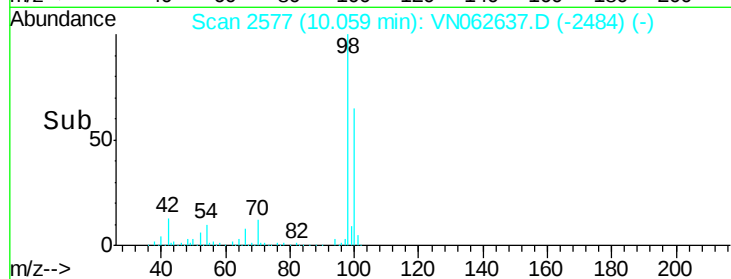
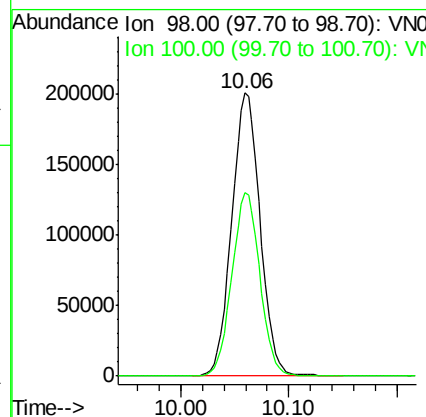
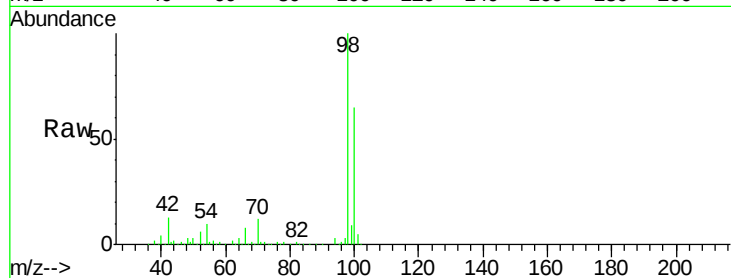




#50
Toluene-d8
Concen: 50.600 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062637.D
Acq: 28 Jul 2020 17:31

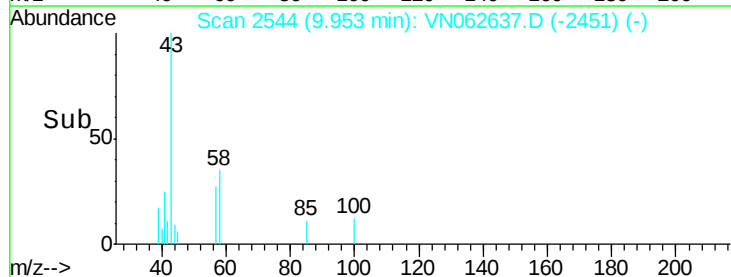
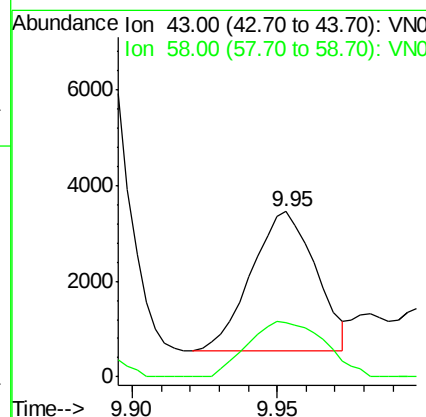
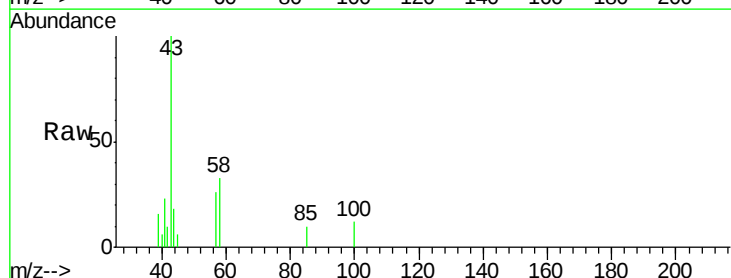
Instrument :
MSVOA_N
ClientSampled :

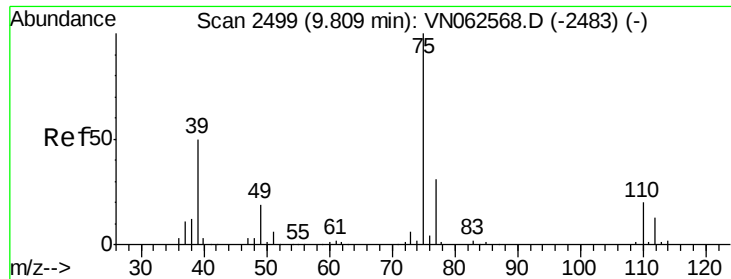
Tot Ion: 98 Resp: 368469
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 1.471 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062637.D
Acq: 28 Jul 2020 17:31

Tgt Ion: 43 Resp: 4529
Ion Ratio Lower Upper
43 100
58 47.1 29.8 44.6#





#54

cis-1,3-Dichloropropene

Concen: 6.144 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

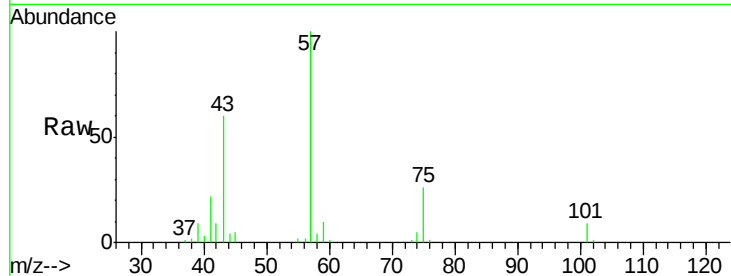
Tot Ion: 75 Resp: 23133

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

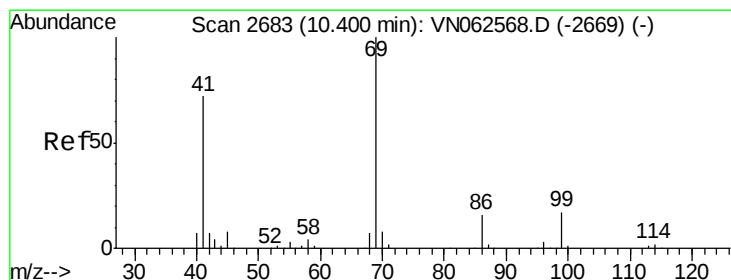
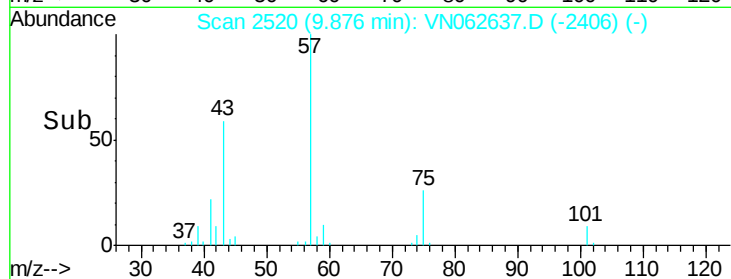
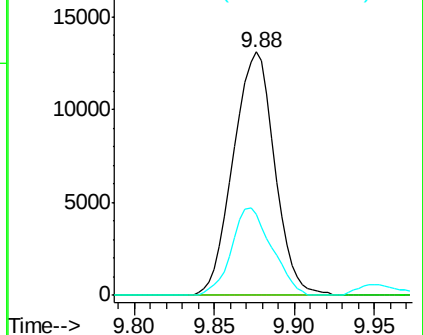
39 33.1 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.075 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

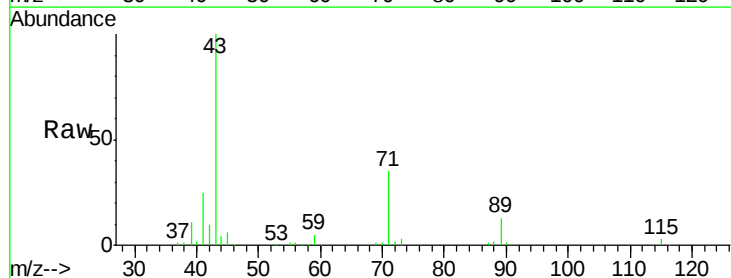
Tgt Ion: 69 Resp: 1150

Ion Ratio Lower Upper

69 100

41 4463.0 57.2 85.8#

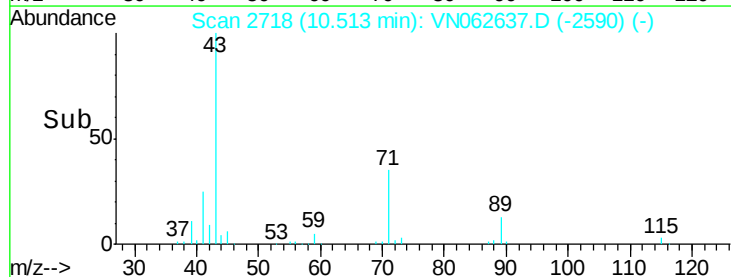
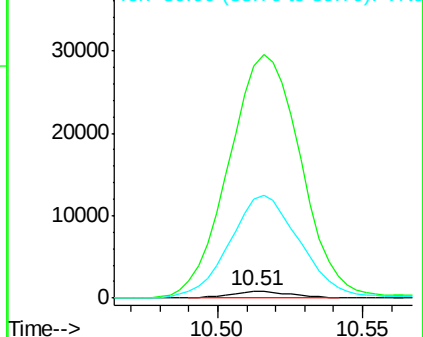
39 1842.6 28.6 43.0#

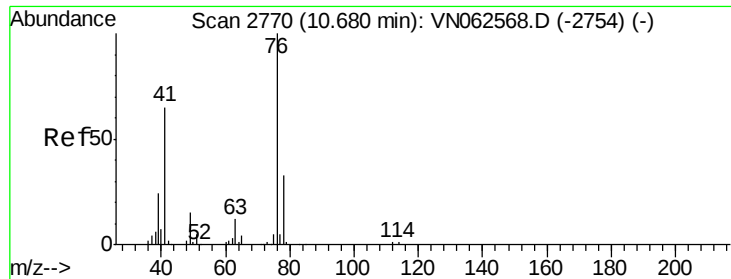


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

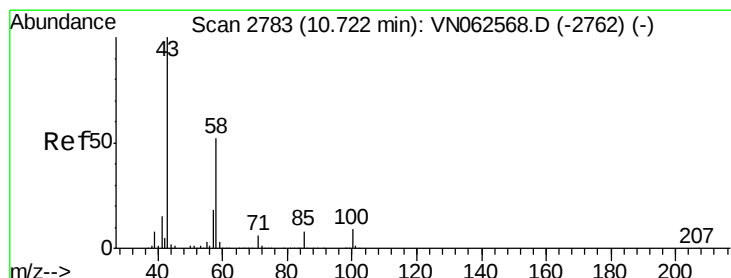
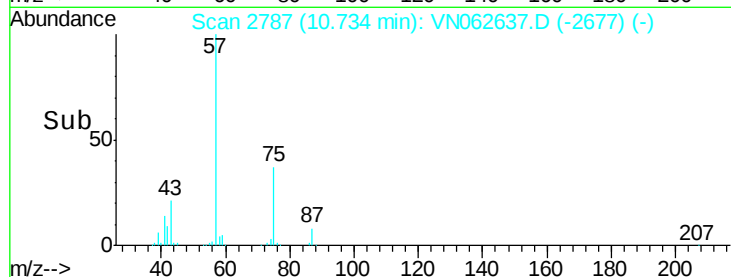
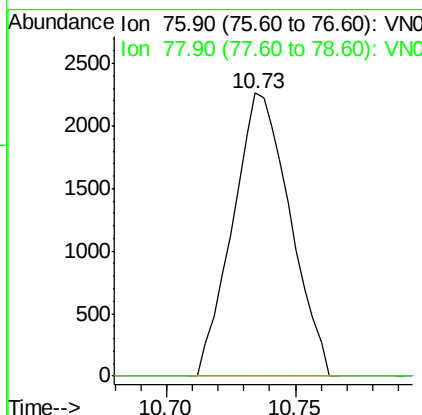
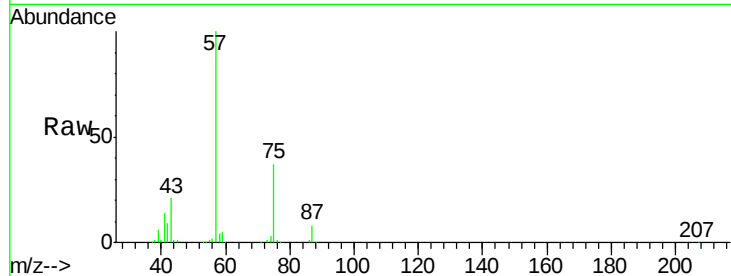




#57
 1,3-Dichloropropane
 Concen: 0.945 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

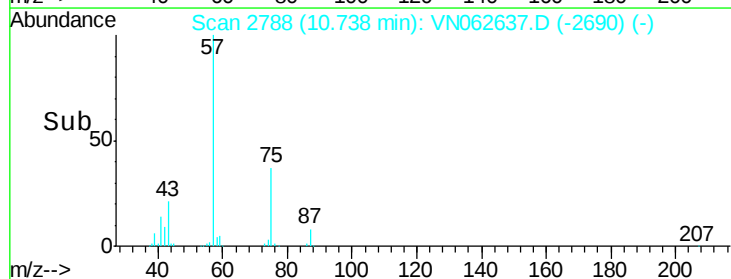
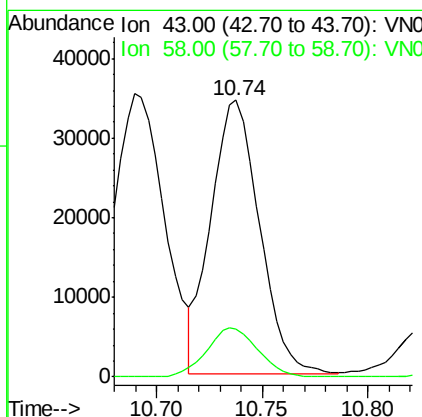
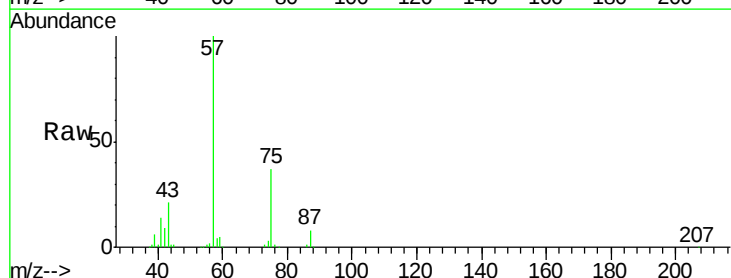
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 76 Resp: 3495
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 25.768 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062637.D
 Acq: 28 Jul 2020 17:31

Tgt Ion: 43 Resp: 54970
 Ion Ratio Lower Upper
 43 100
 58 18.8 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 45.833 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampled :

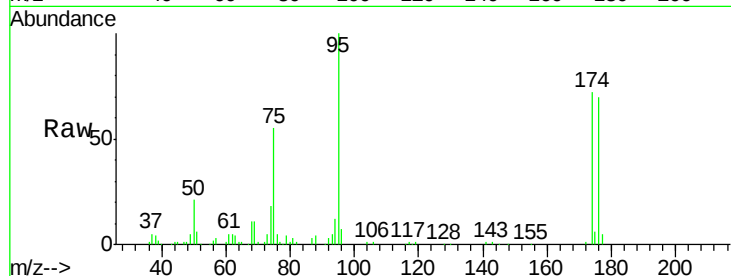
Tot Ion: 95 Resp: 122035

Ion Ratio Lower Upper

95 100

174 73.0 0.0 144.6

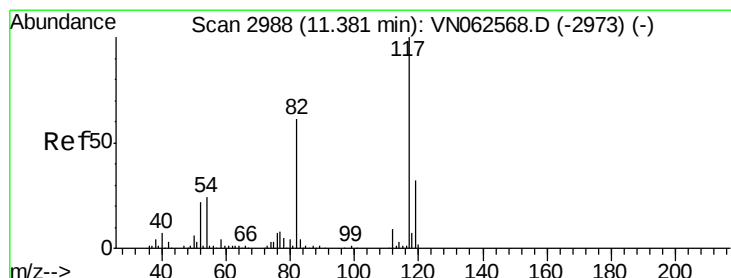
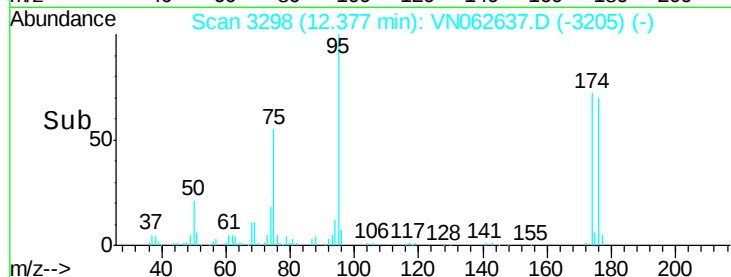
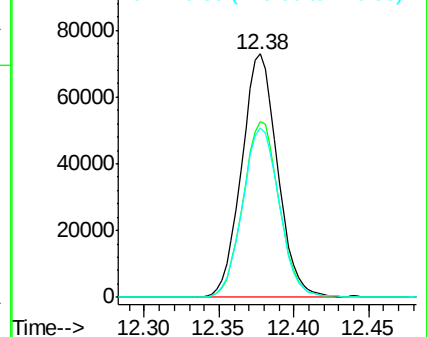
176 71.2 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062637.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062637.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062637.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

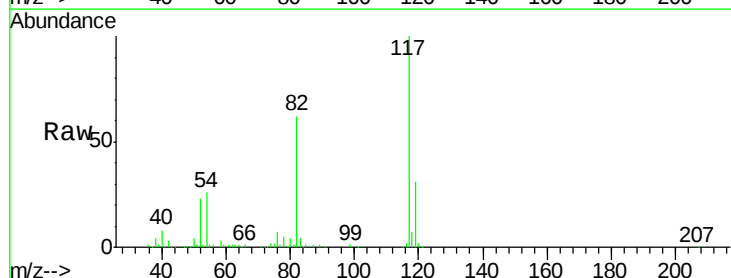
Tgt Ion: 117 Resp: 252334

Ion Ratio Lower Upper

117 100

82 62.3 49.0 73.6

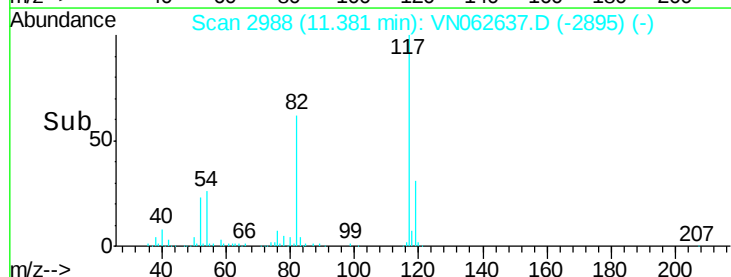
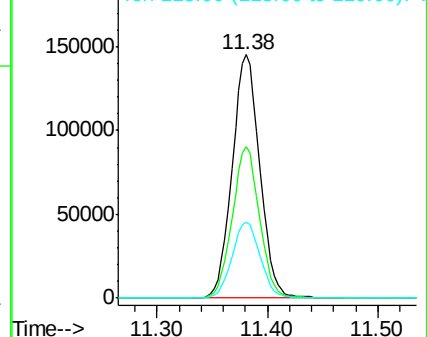
119 31.1 25.4 38.2

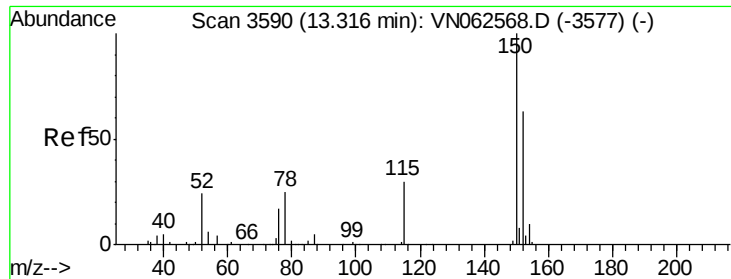


Abundance Ion 116.90 (116.60 to 117.60): VN062637.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062637.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062637.D (-2895) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

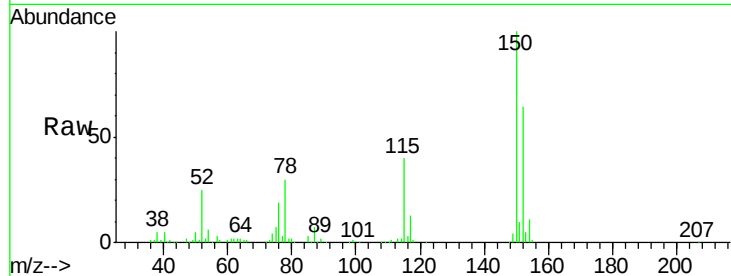
Tot Ion:152 Resp: 91095

Ion Ratio Lower Upper

152 100

115 61.7 31.8 95.4

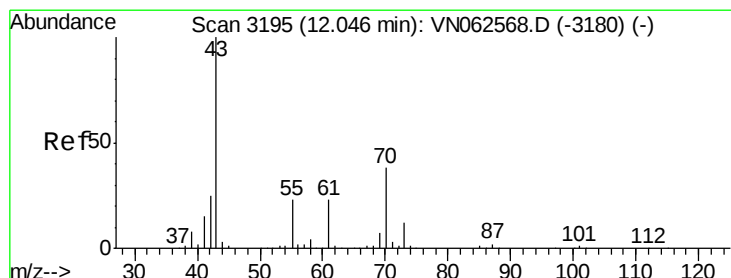
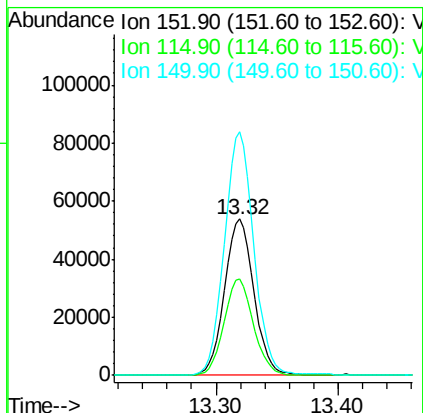
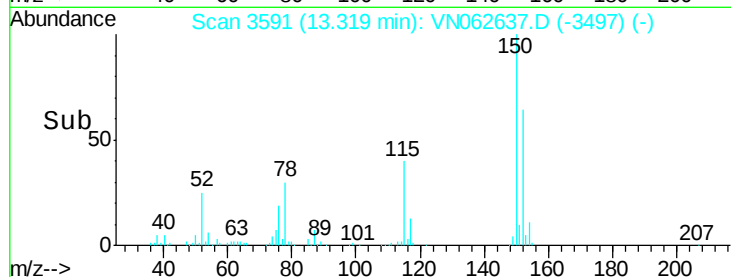
150 155.6 0.0 351.4



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



#74

N-ethyl acetate

Concen: 0.389 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Tgt Ion: 43 Resp: 1252

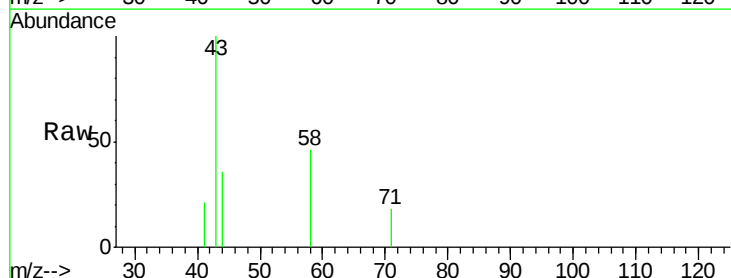
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 2.4 19.0 28.6#

61 0.0 18.4 27.6#

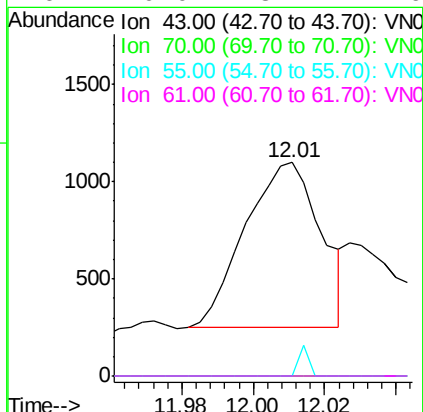
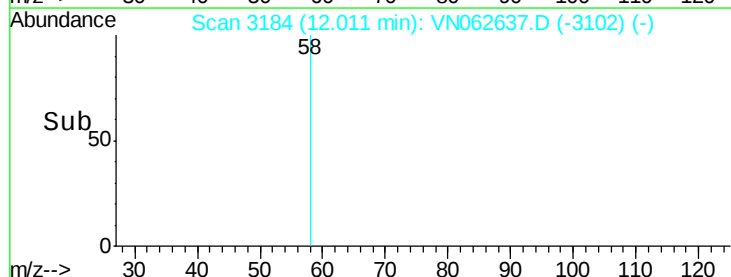


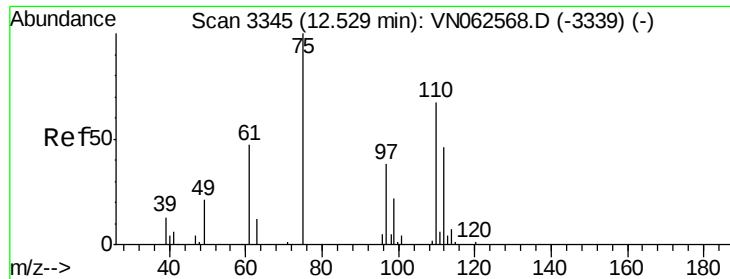
Abundance Ion 43.00 (42.70 to 43.70): V

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: 29.290 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

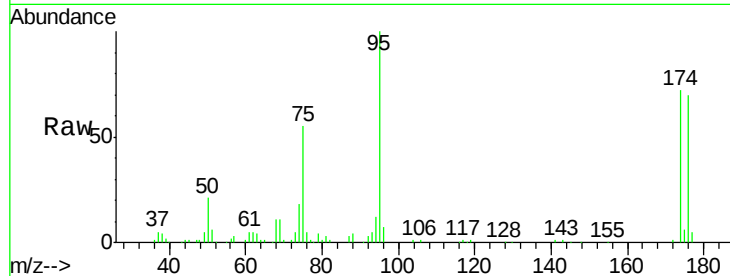
ClientSampled :

Tot Ion: 75 Resp: 67915

Ion Ratio Lower Upper

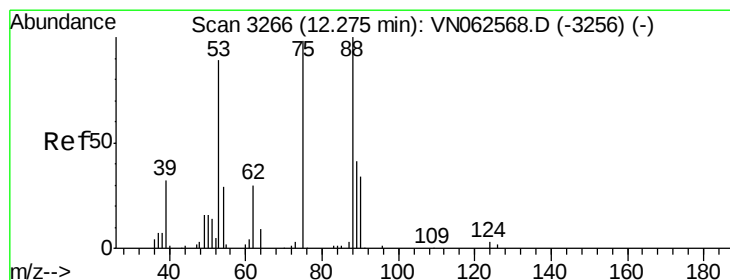
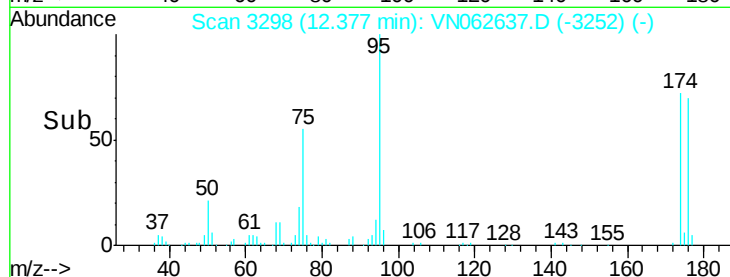
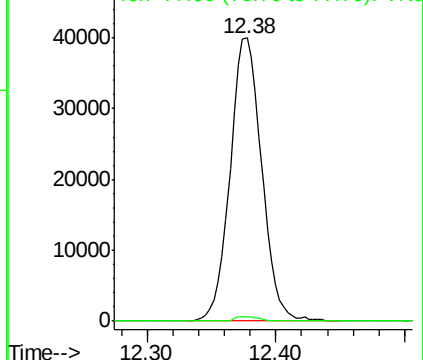
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 81.537 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

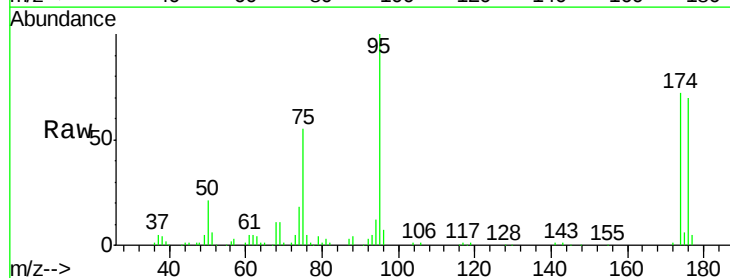
Tgt Ion: 75 Resp: 67915

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

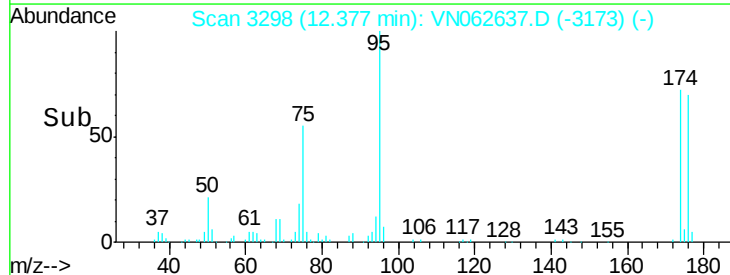
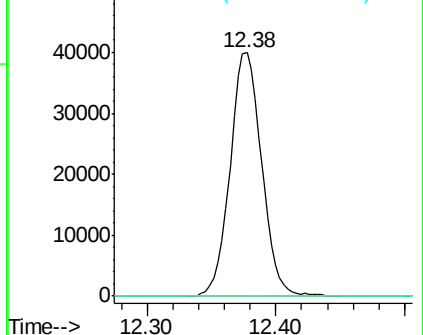
89 0.0 34.5 51.7#

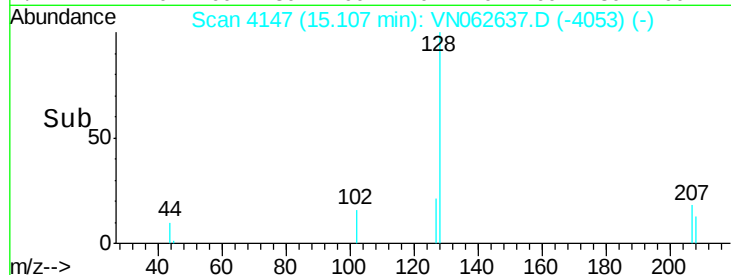
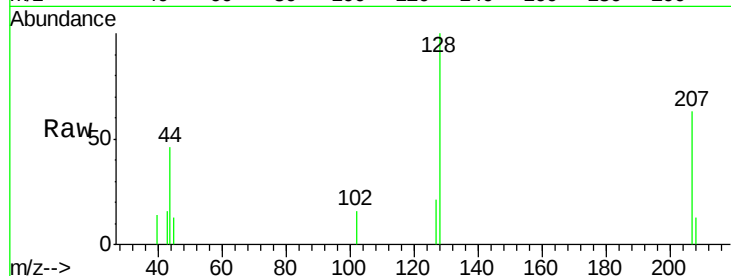
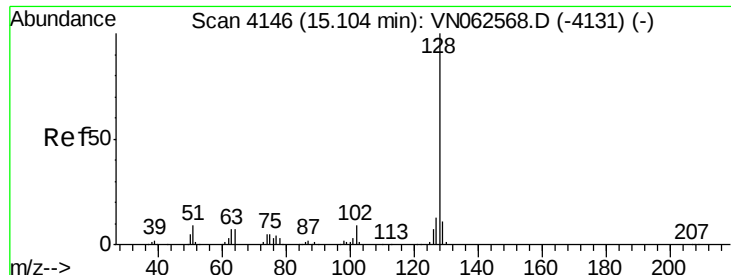


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 4.384 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062637.D

Acq: 28 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 2726

Ion Ratio Lower Upper

128 100

127 11.1 10.4 15.6

129 0.0 8.7 13.1#

