

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062691.D
 Acq On : 31 Jul 2020 17:31
 Operator : JC/MD
 Sample : PB130640ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#14

Quant Time: Aug 01 06:06:56 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	124150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	234380	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	232922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	82392	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	110582	57.34	ug/l	0.00
Spiked Amount			Recovery	=	114.68%	
35) Dibromofluoromethane	7.55	113	76516	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	10.06	98	305281	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	12.38	95	108464	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	

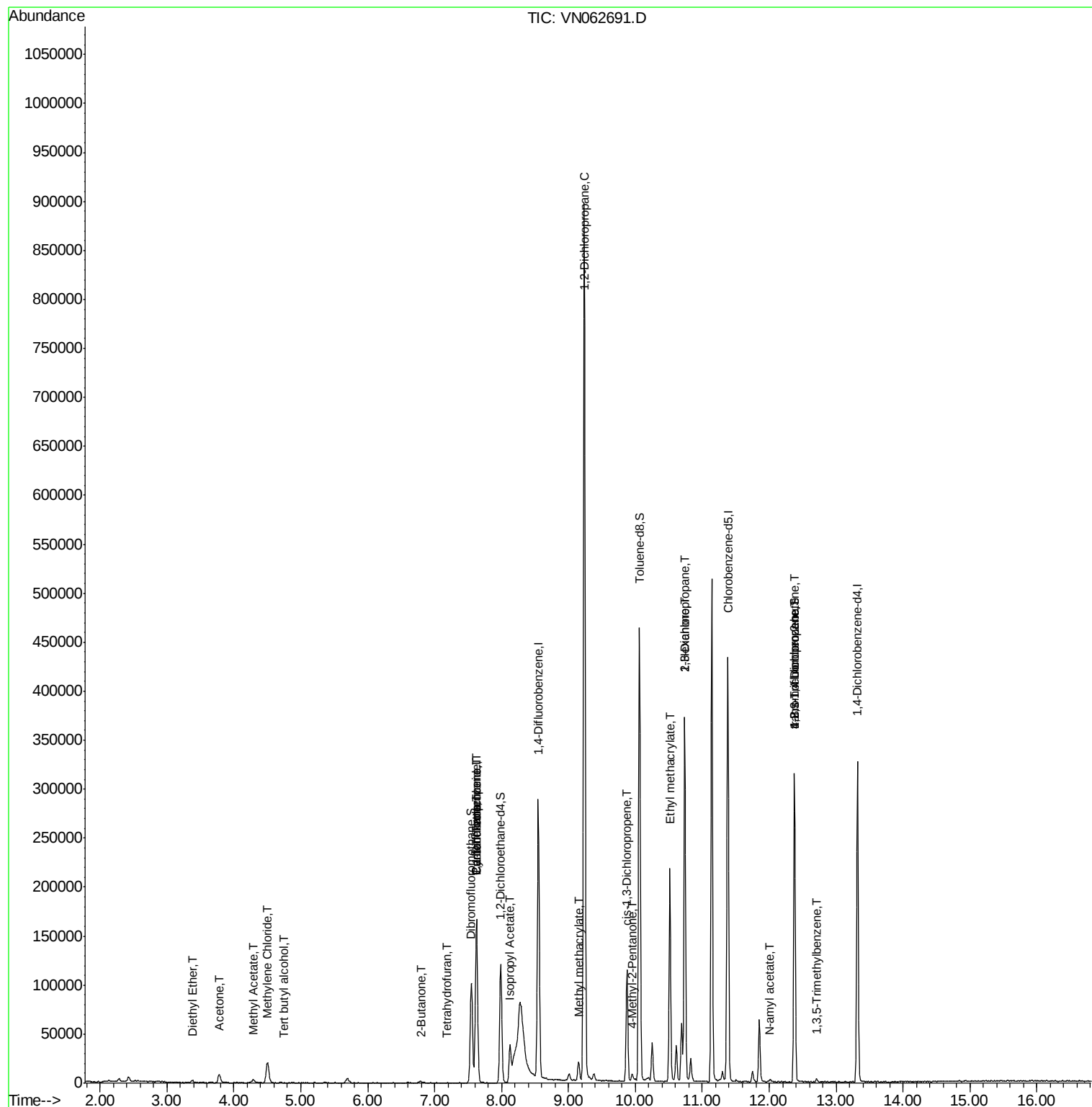
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	1222	1.278	ug/l #	45
11) Tert butyl alcohol	4.74	59	166	0.541	ug/l #	73
16) Acetone	3.78	43	15809	21.783	ug/l	95
18) Methyl Acetate	4.28	43	6600	3.592	ug/l #	64
20) Methylene Chloride	4.50	84	15354	8.821	ug/l	96
25) 2-Butanone	6.80	43	1600	1.448	ug/l #	52
29) Tetrahydrofuran	7.18	42	171	0.229	ug/l #	38
31) Cyclohexane	7.63	56	3037	1.069	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	10937	4.378	ug/l #	50
38) Carbon Tetrachloride	7.63	117	14202	5.914	ug/l #	18
43) Isopropyl Acetate	8.13	43	49401	11.379	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1116	0.526	ug/l #	44
48) Methyl methacrylate	9.15	41	3265	1.582	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5215	2.008	ug/l	99
54) cis-1,3-Dichloropropene	9.88	75	19212	6.049	ug/l #	65
56) Ethyl methacrylate	10.52	69	978	2.077	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3572	1.145	ug/l #	42
59) 2-Hexanone	10.74	43	57049	31.021	ug/l #	53
74) N-amyl acetate	12.00	43	1695	0.583	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	62195	29.657	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2206	0.408	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	62195	82.557	ug/l #	12

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

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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: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

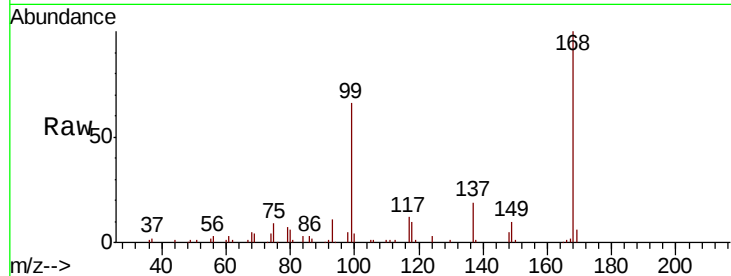
PB130640ZHE#14

Tot Ion:168 Resp: 124150

Ion Ratio Lower Upper

168 100

99 65.6 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062691.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN062691.D (-1727) (-)

7.63

60000

50000

40000

30000

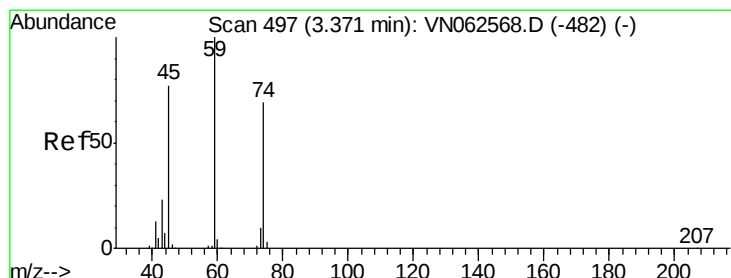
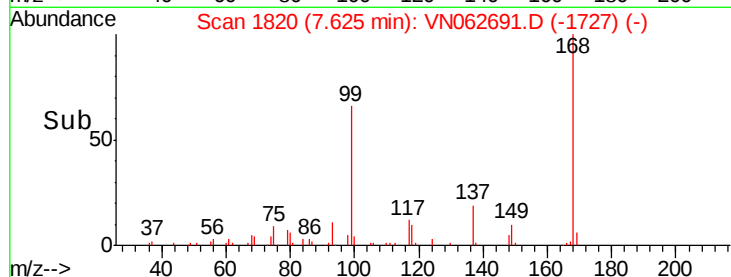
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#8

Diethyl Ether

Concen: 1.278 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.01 min

Lab File: VN062691.D

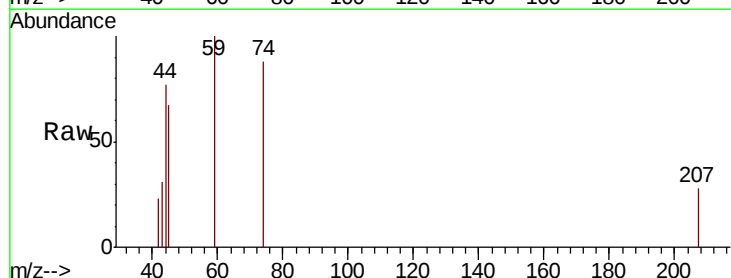
Acq: 31 Jul 2020 17:31

Tgt Ion: 74 Resp: 1222

Ion Ratio Lower Upper

74 100

45 51.7 55.3 165.8#



Abundance Ion 74.00 (73.70 to 74.70): VN062691.D (-404) (-)

Ion 45.00 (44.70 to 45.70): VN062691.D (-404) (-)

3.38

600

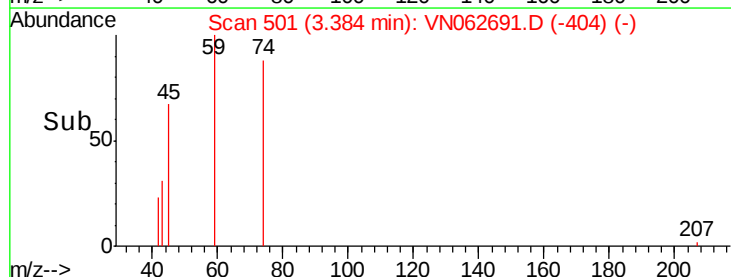
400

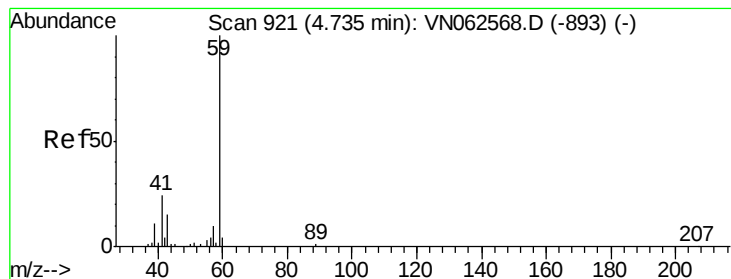
200

0

3.35 3.40

Time-->



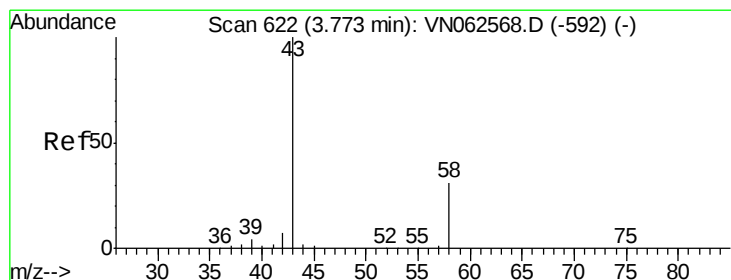
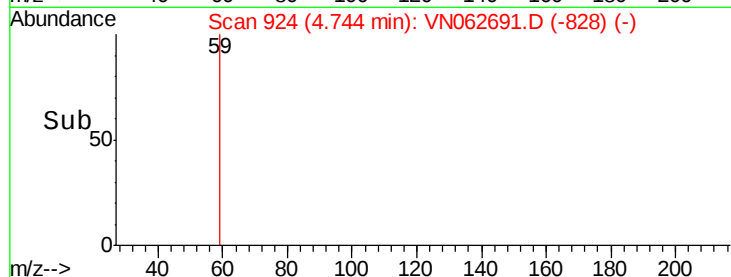
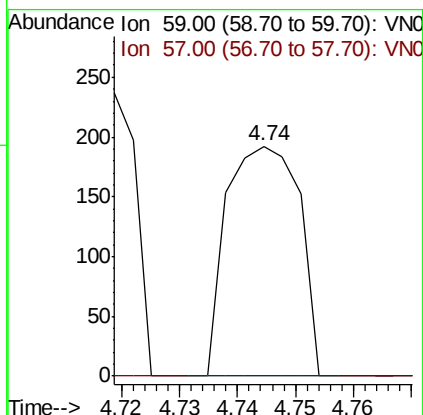
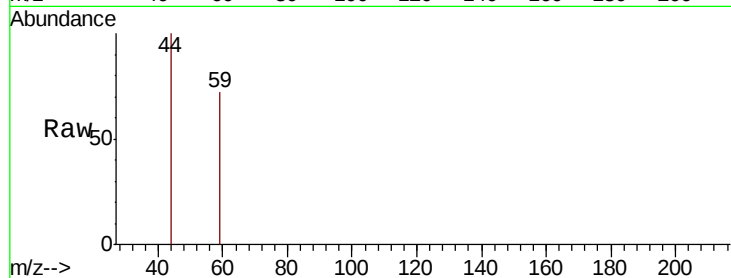


#11

Tert butyl alcohol
 Concen: 0.541 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#14

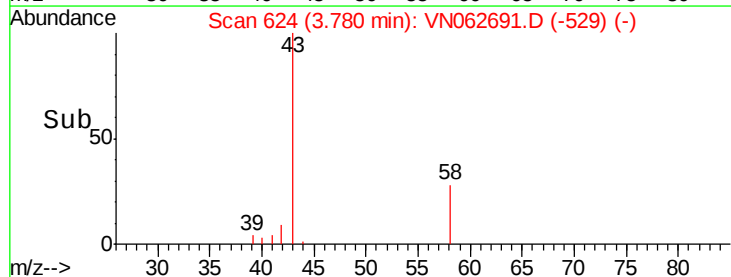
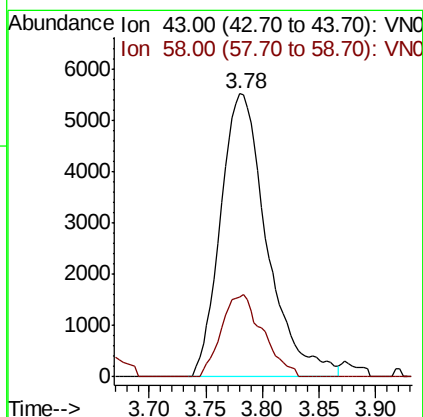
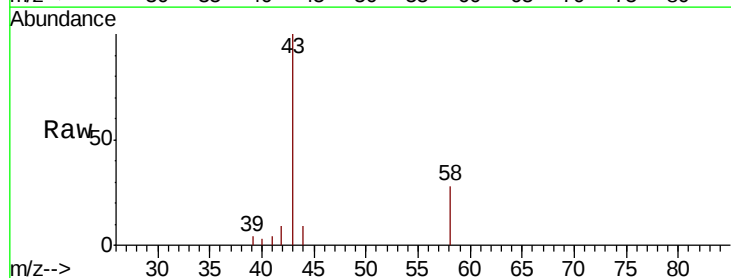
Tot Ion: 59 Resp: 166
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

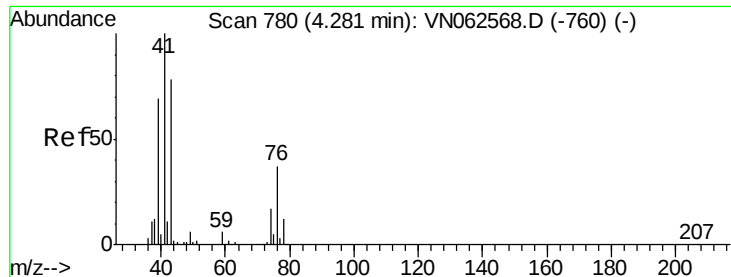


#16

Acetone
 Concen: 21.783 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

Tgt Ion: 43 Resp: 15809
 Ion Ratio Lower Upper
 43 100
 58 28.3 24.6 37.0

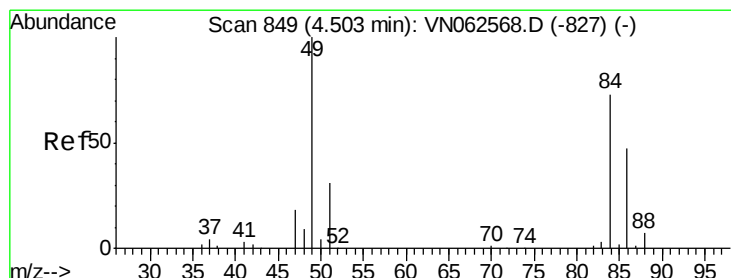
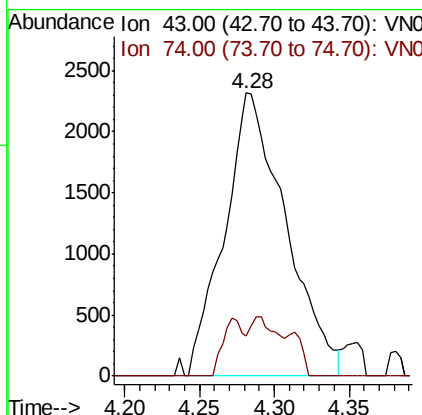
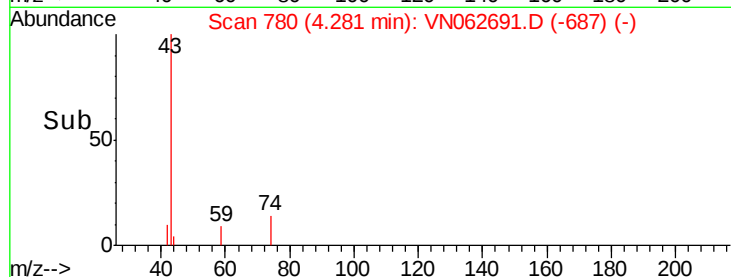
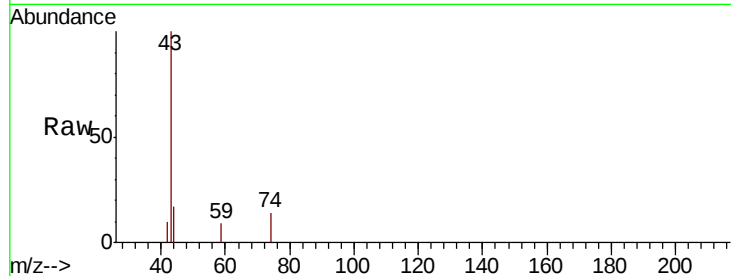




#18
Methyl Acetate
Concen: 3.592 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

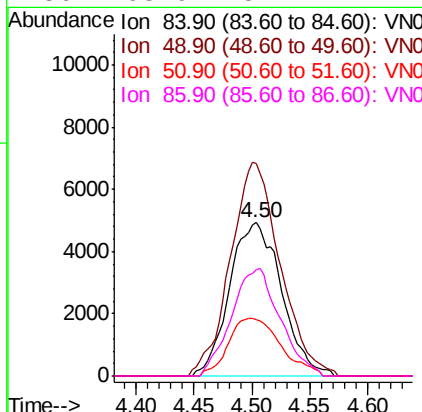
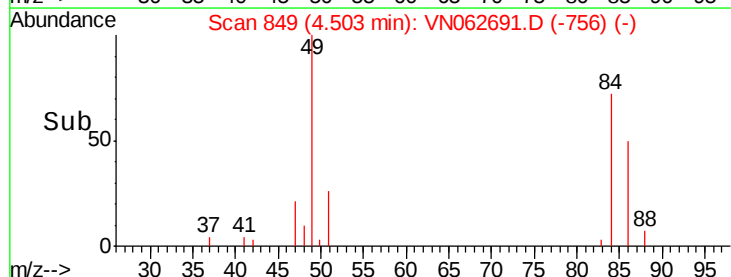
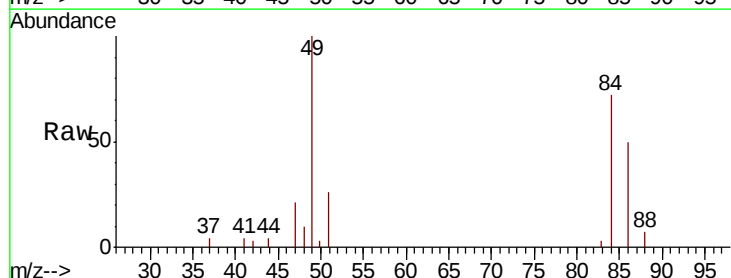
Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#14

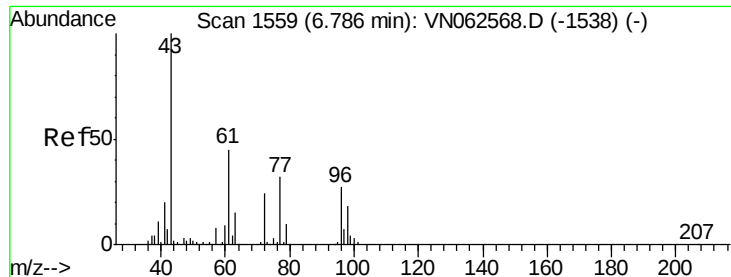
Tot Ion: 43 Resp: 6600
Ion Ratio Lower Upper
43 100
74 3.8 16.6 24.8#



#20
Methylene Chloride
Concen: 8.821 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion: 84 Resp: 15354
Ion Ratio Lower Upper
84 100
49 138.1 109.4 164.0
51 36.3 33.6 50.4
86 68.9 51.4 77.2

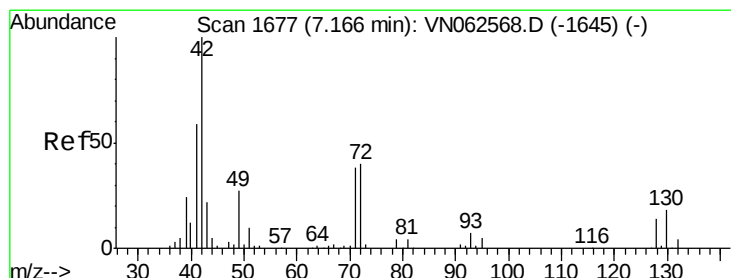
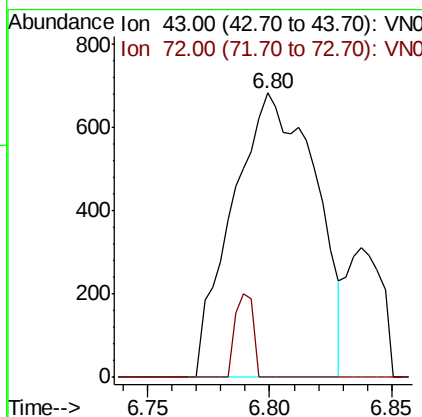
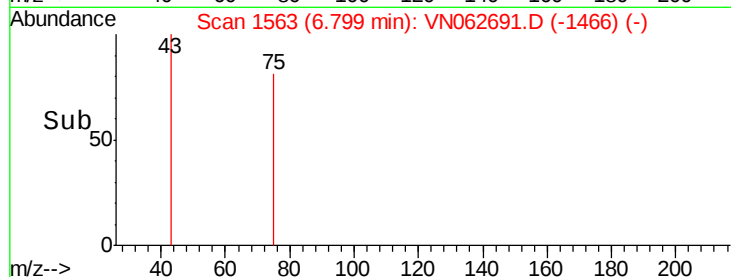
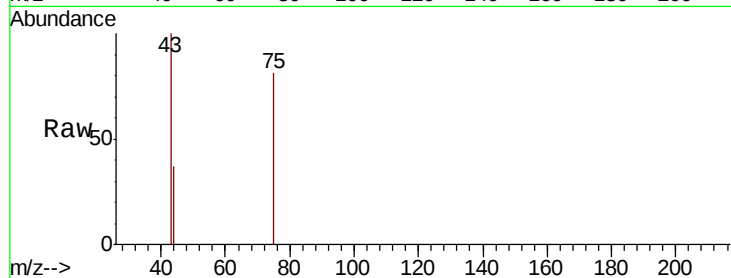




#25
2-Butanone
Concen: 1.448 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

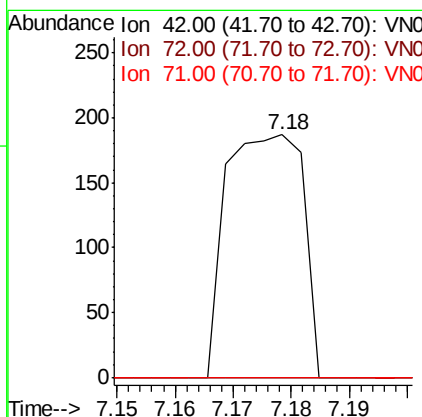
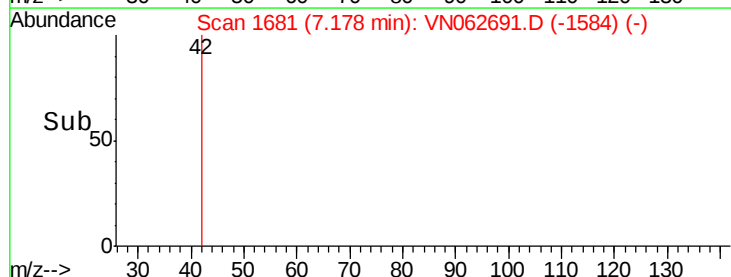
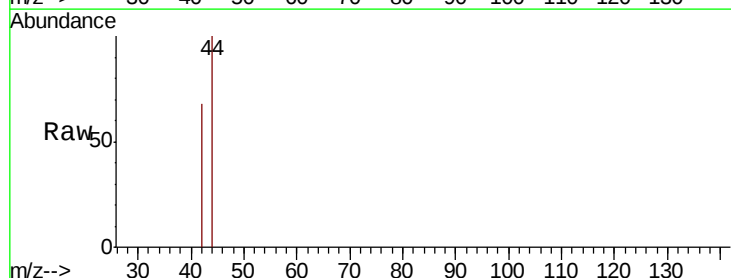
Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#14

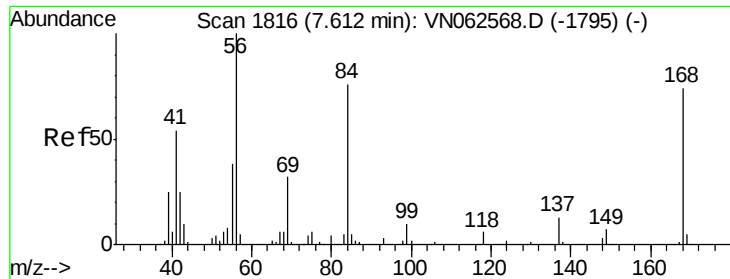
Tot Ion: 43 Resp: 1600
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion: 42 Resp: 171
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#

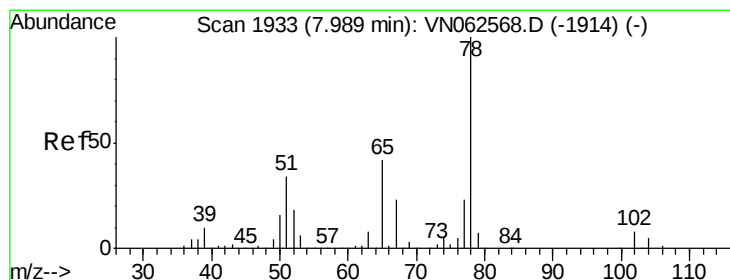
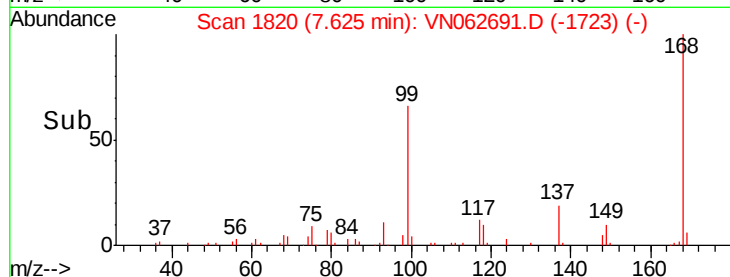
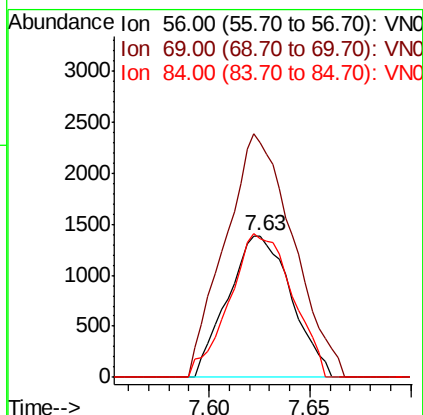
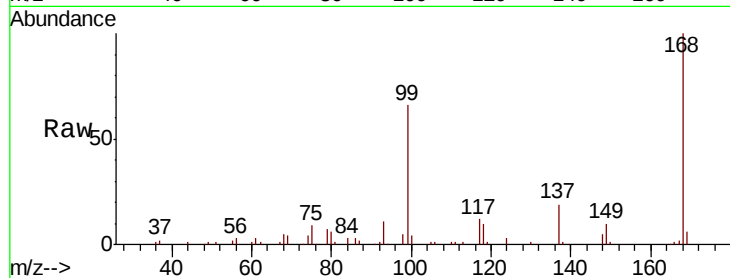




#31
Cyclohexane
Concen: 1.069 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

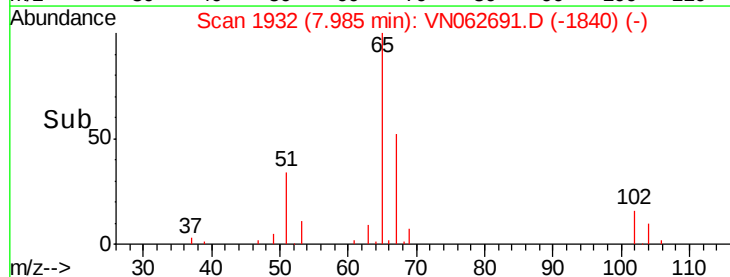
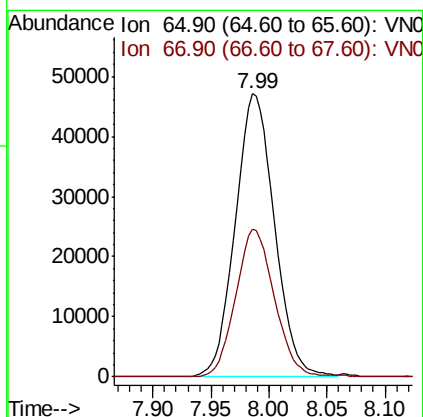
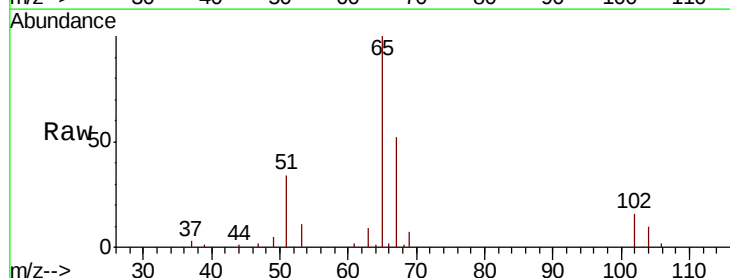
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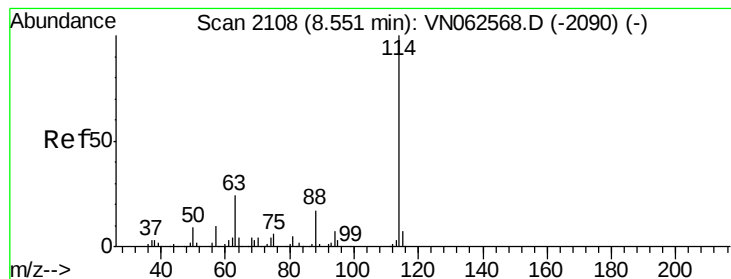
Tot Ion: 56 Resp: 3037
Ion Ratio Lower Upper
56 100
69 165.5 25.3 37.9#
84 98.2 61.0 91.4#



#33
1,2-Dichloroethane-d4
Concen: 57.338 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion: 65 Resp: 110582
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#14

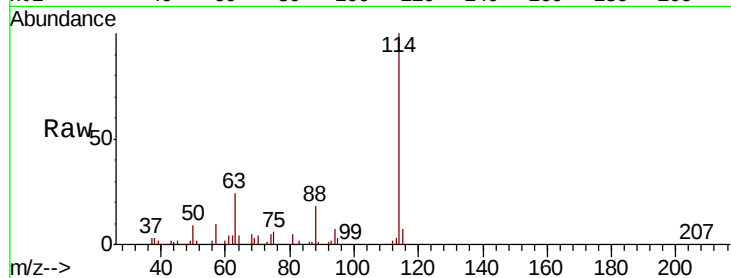
Tot Ion:114 Resp: 234380

Ion Ratio Lower Upper

114 100

63 23.9 0.0 48.4

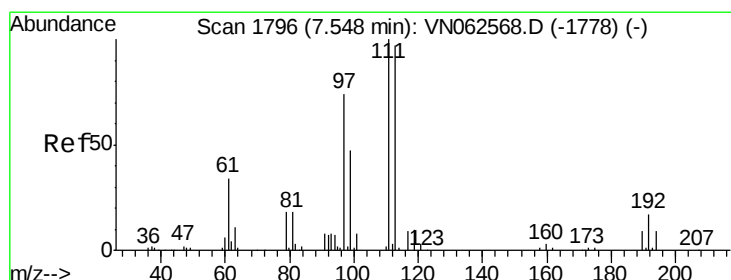
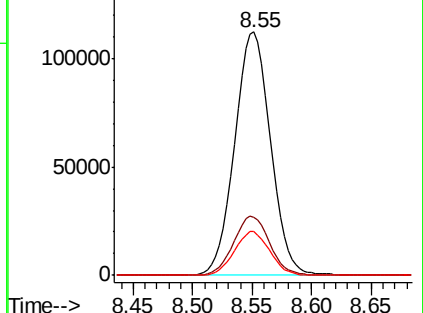
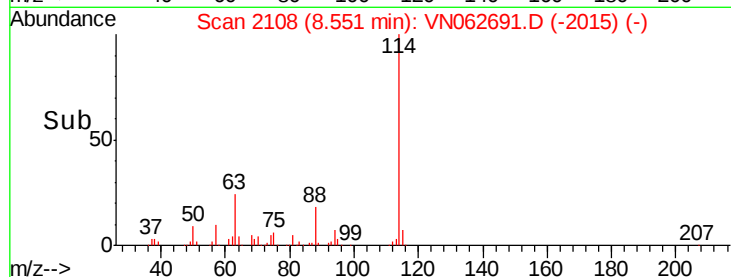
88 18.0 0.0 33.8



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: 49.701 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

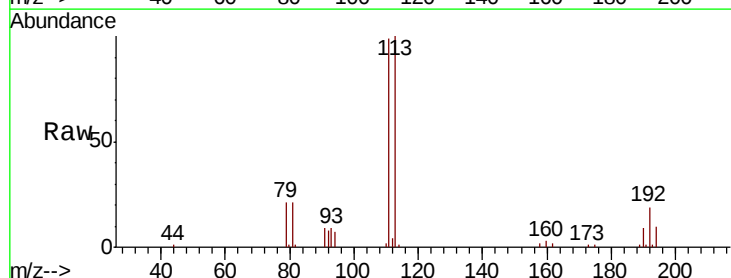
Tgt Ion:113 Resp: 76516

Ion Ratio Lower Upper

113 100

111 102.7 82.7 124.1

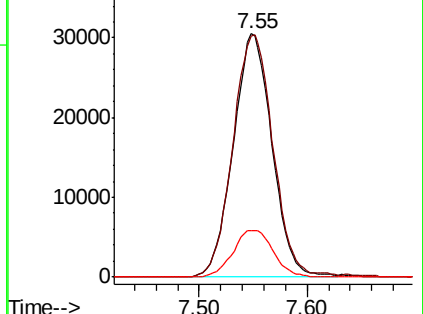
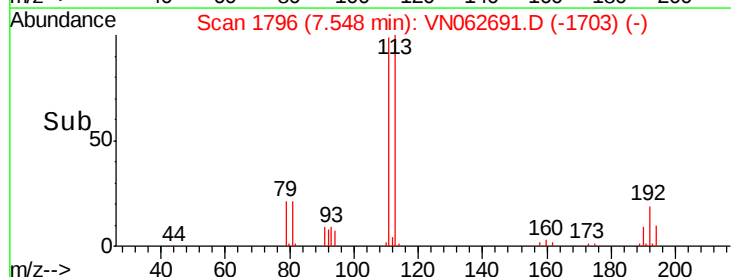
192 19.7 14.8 22.2

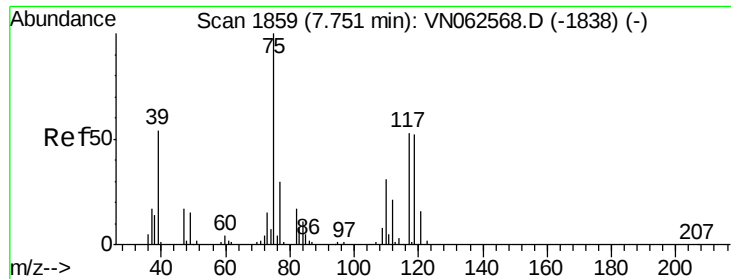


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

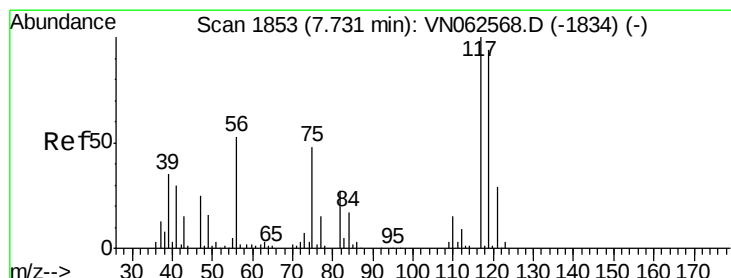
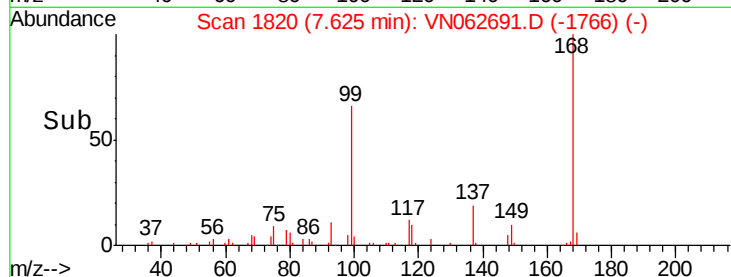
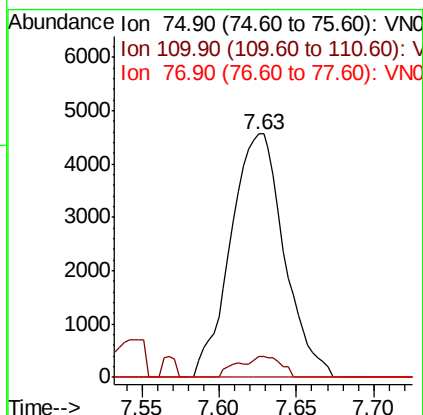
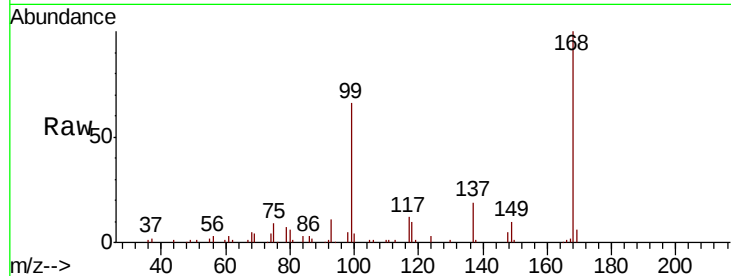




#36
 1,1-Dichloropropene
 Concen: 4.378 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

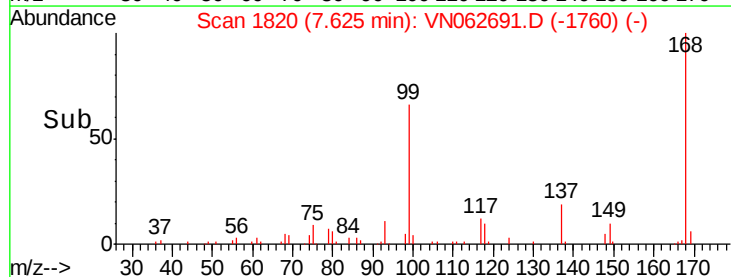
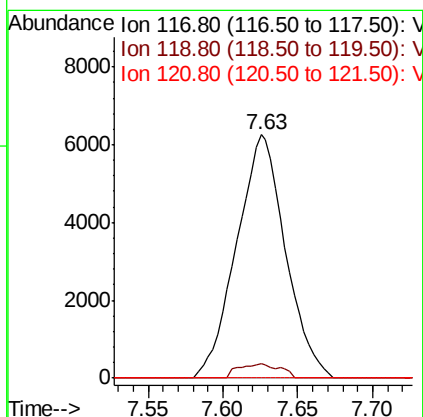
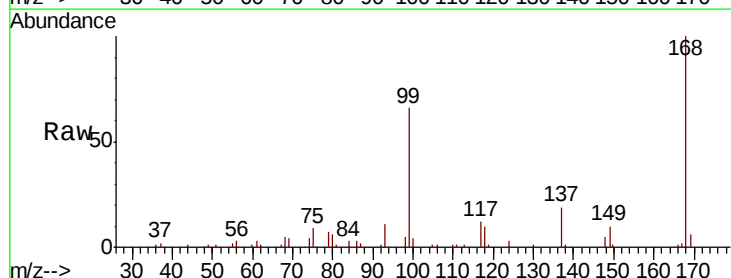
Instrument :
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 PB130640ZHE#14

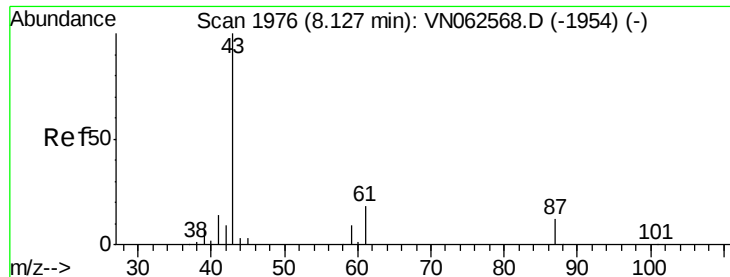
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.914 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 11.379 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampled :

PB130640ZHE#14

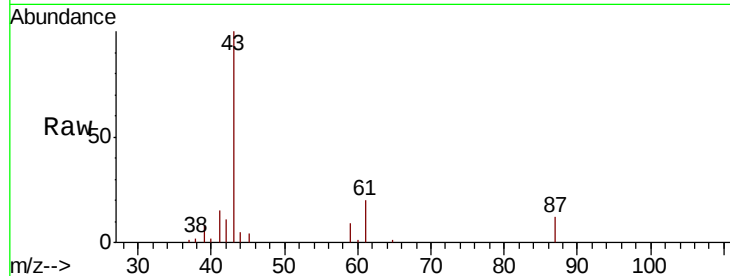
Tot Ion: 43 Resp: 49401

Ion Ratio Lower Upper

43 100

61 18.5 20.8 31.2#

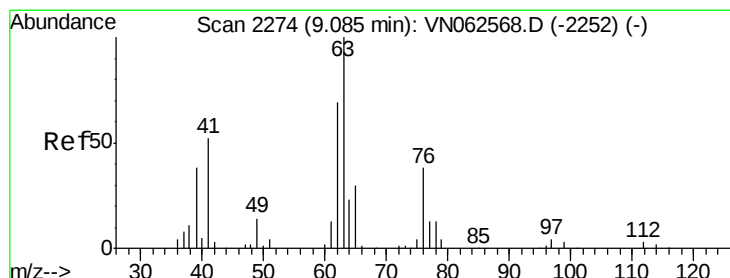
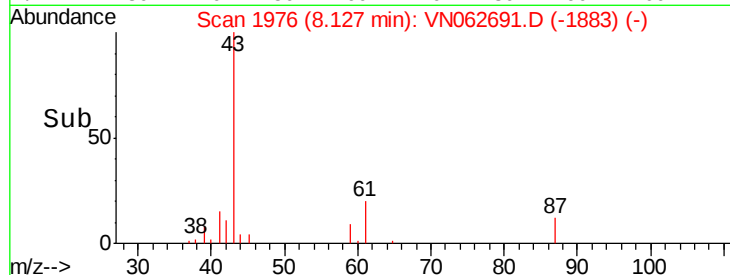
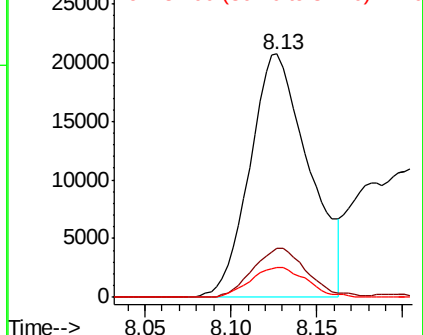
87 11.6 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062691.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062691.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062691.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062691.D

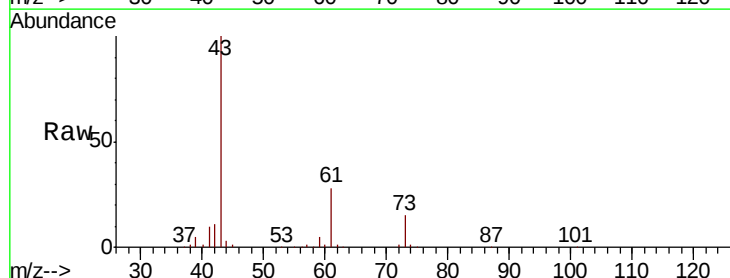
Acq: 31 Jul 2020 17:31

Tgt Ion: 63 Resp: 1116

Ion Ratio Lower Upper

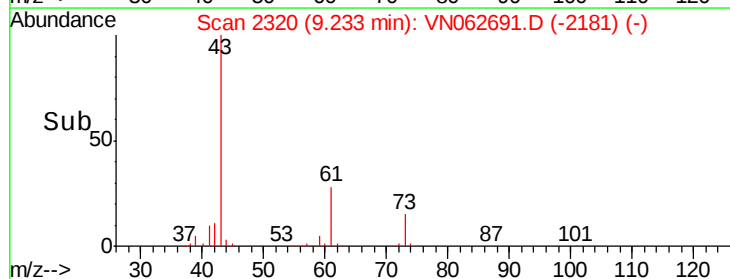
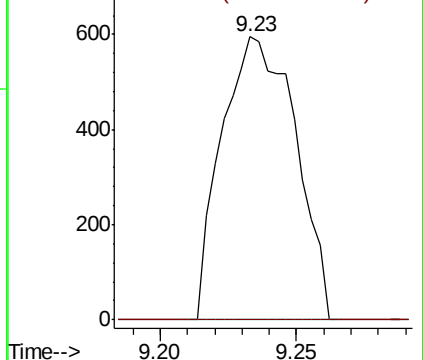
63 100

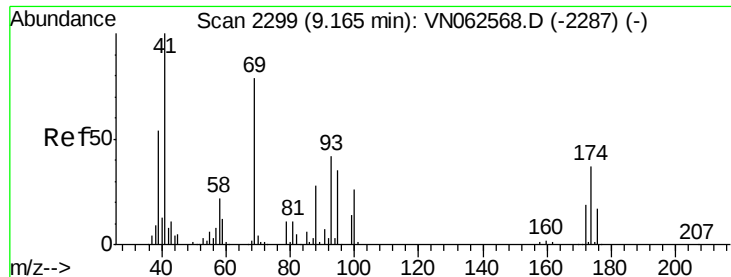
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062691.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062691.D (-2181) (-)

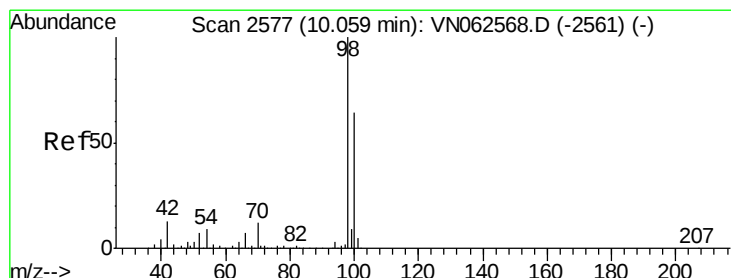
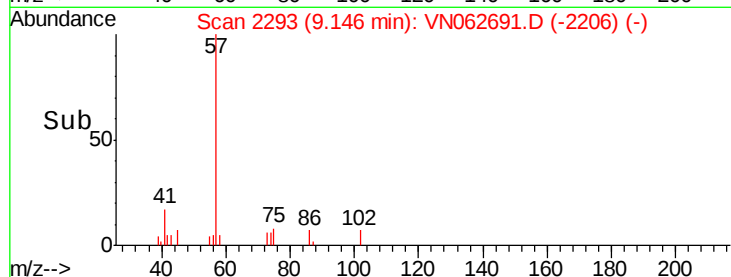
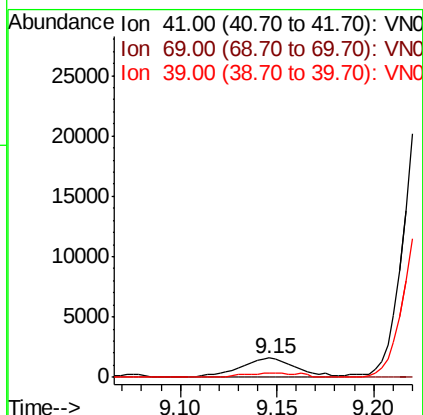
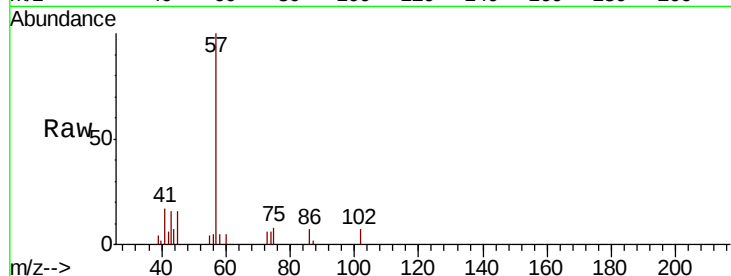




#48
Methvl methacrylate
Concen: 1.582 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

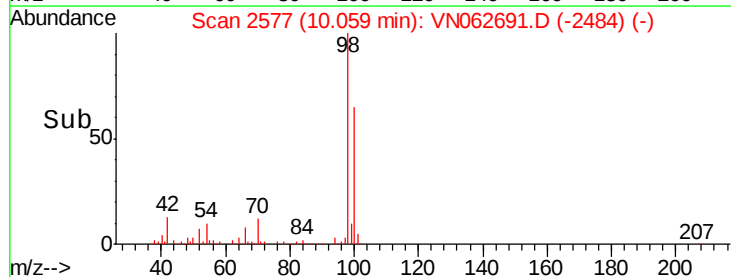
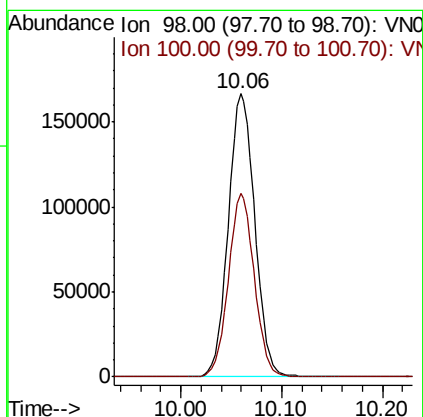
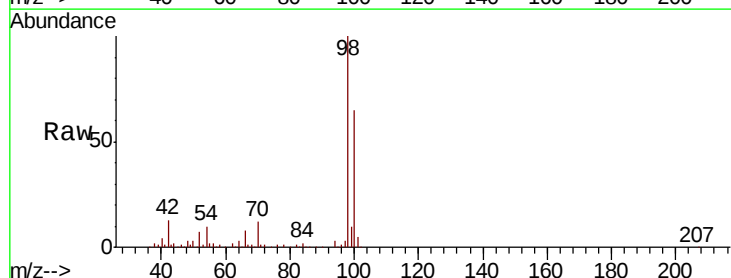
Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#14

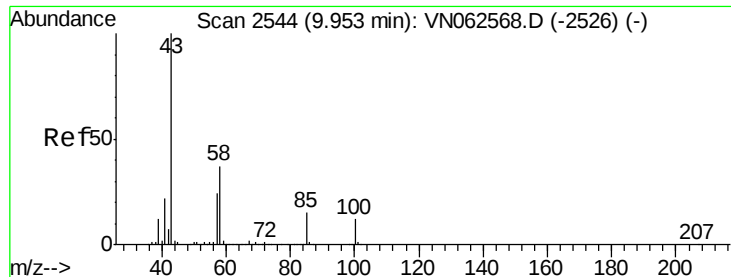
Tot Ion: 41 Resp: 3265
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 49.698 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion: 98 Resp: 305281
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 2.008 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

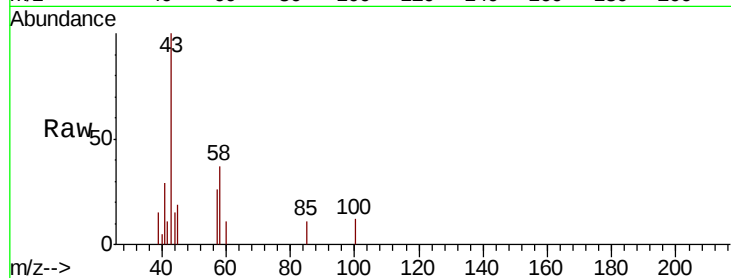
PB130640ZHE#14

Tot Ion: 43 Resp: 5215

Ion Ratio Lower Upper

43 100

58 36.5 29.8 44.6

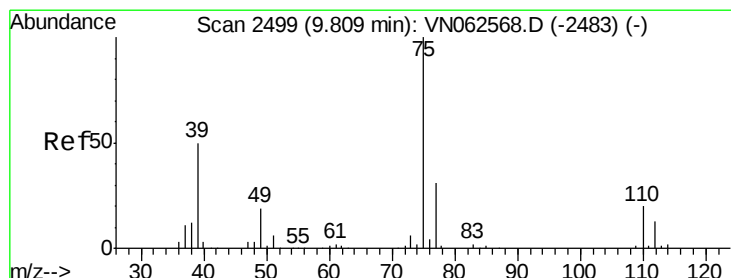
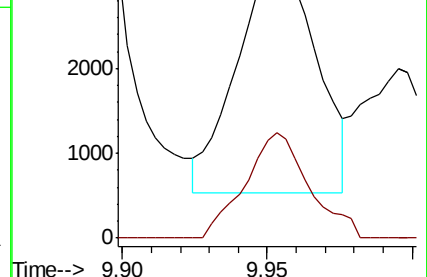
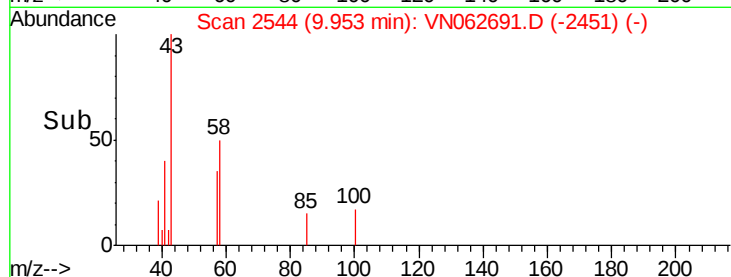


Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-2526) (-)

Ion 58.00 (57.70 to 58.70): VN062568.D (-2526) (-)

9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.049 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

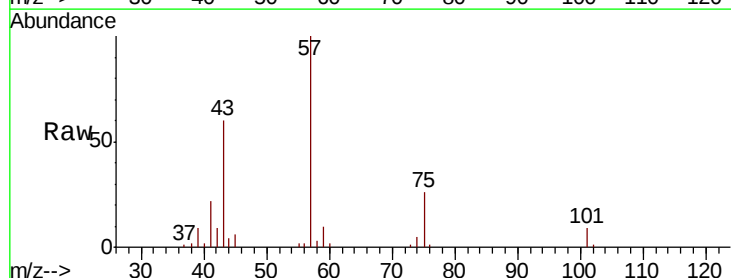
Tgt Ion: 75 Resp: 19212

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 35.2 39.8 59.8#



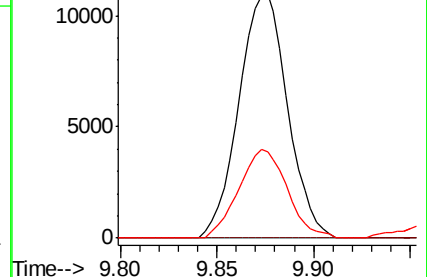
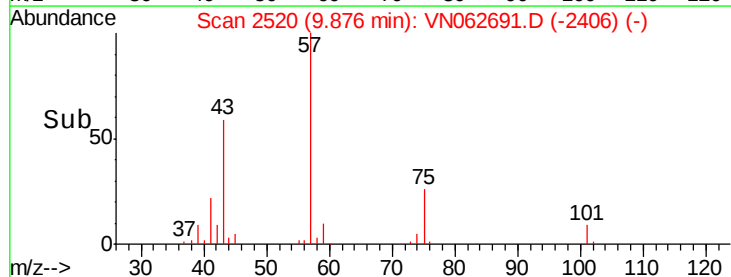
Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-2483) (-)

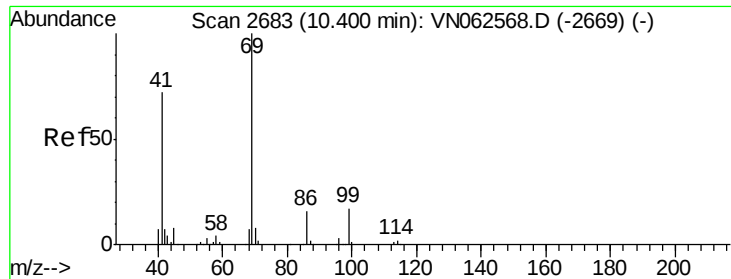
Ion 76.90 (76.60 to 77.60): VN062568.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2483) (-)

9.88

Time-->





#56

Ethyl methacrylate

Concen: 2.077 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#14

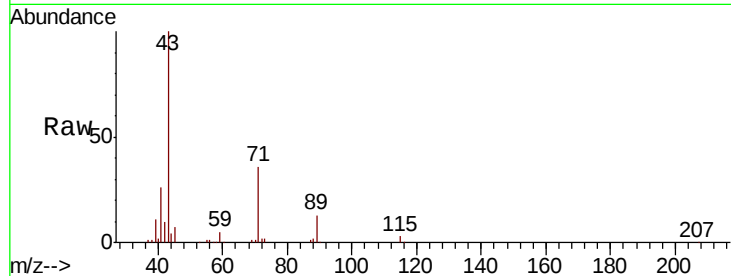
Tot Ion: 69 Resp: 978

Ion Ratio Lower Upper

69 100

41 4236.9 57.2 85.8#

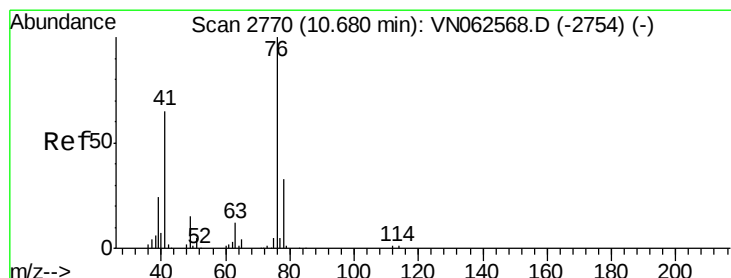
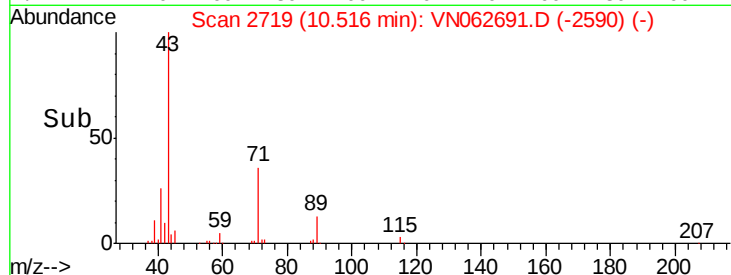
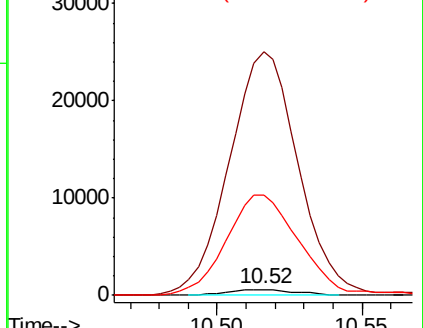
39 1855.7 28.6 43.0#



Abundance Ion 69.00 (68.70 to 69.70): VN062691.D (-2719) (-)

Ion 41.00 (40.70 to 41.70): VN062691.D (-2719) (-)

Ion 39.00 (38.70 to 39.70): VN062691.D (-2719) (-)



#57

1,3-Dichloropropane

Concen: 1.145 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062691.D

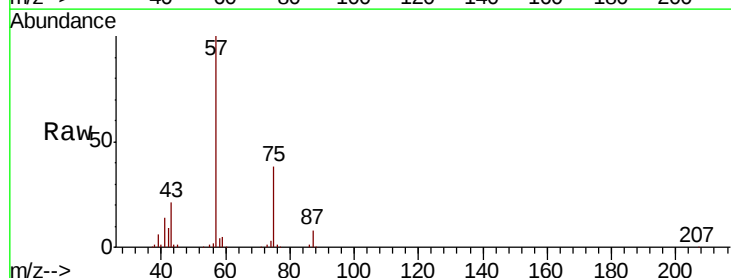
Acq: 31 Jul 2020 17:31

Tgt Ion: 76 Resp: 3572

Ion Ratio Lower Upper

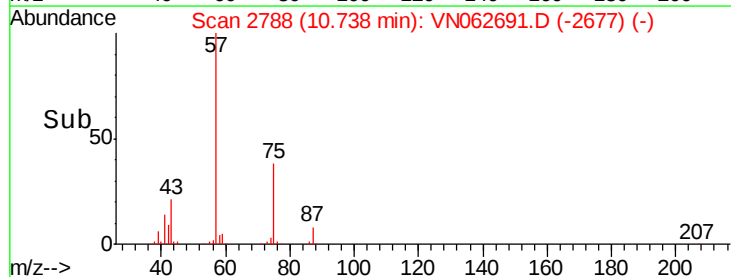
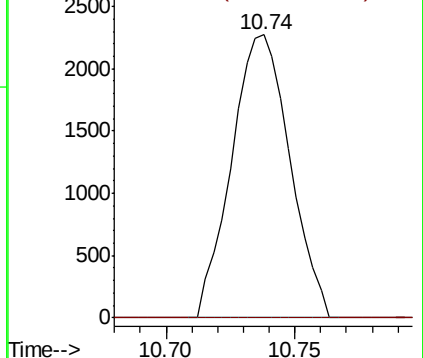
76 100

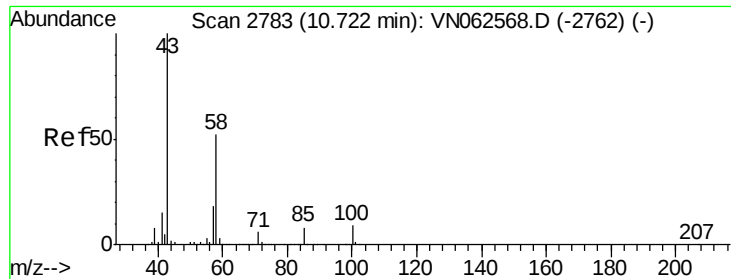
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062691.D (-2788) (-)

Ion 77.90 (77.60 to 78.60): VN062691.D (-2788) (-)

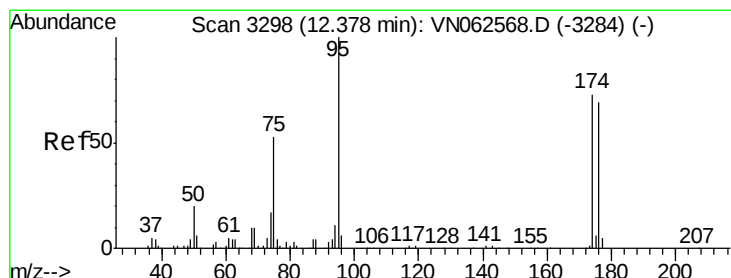
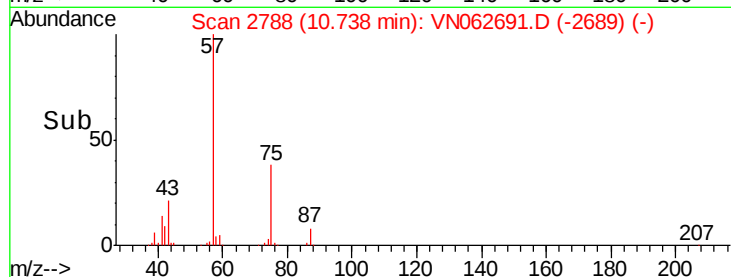
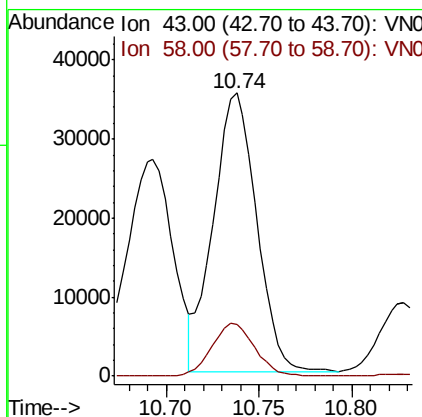
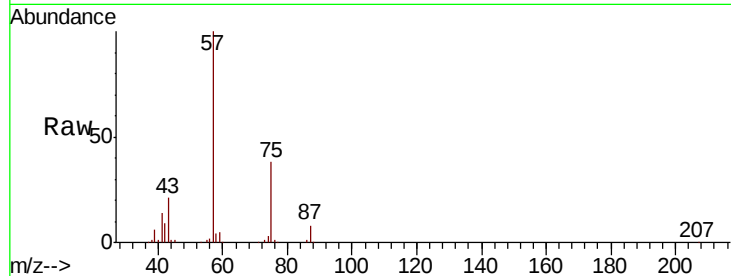




#59
2-Hexanone
Concen: 31.021 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

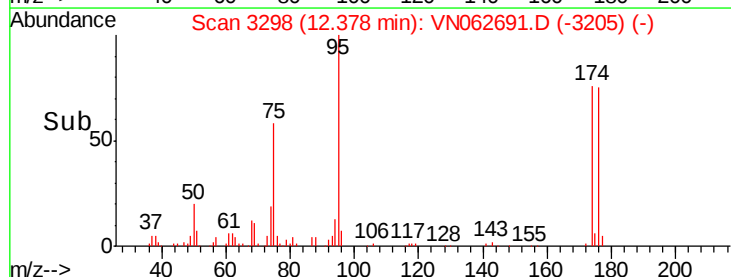
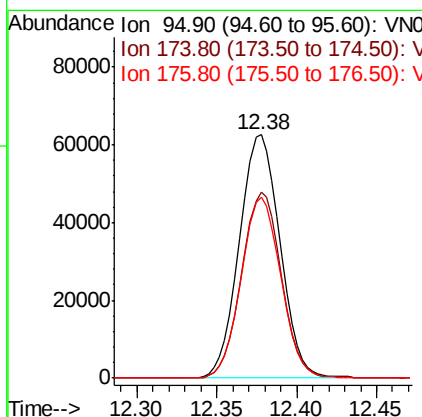
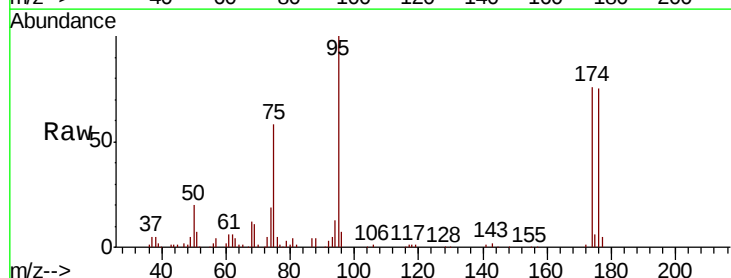
Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#14

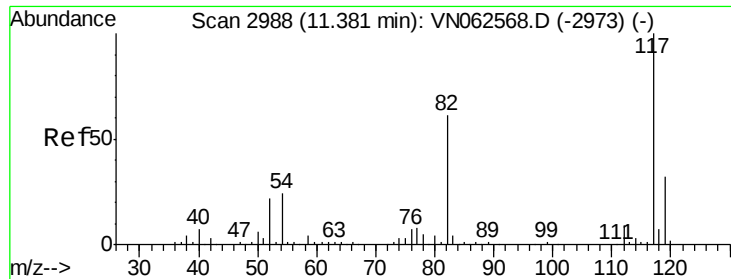
Tot Ion: 43 Resp: 57049
Ion Ratio Lower Upper
43 100
58 18.8 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 48.292 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion: 95 Resp: 108464
Ion Ratio Lower Upper
95 100
174 75.2 0.0 144.6
176 72.8 0.0 139.4

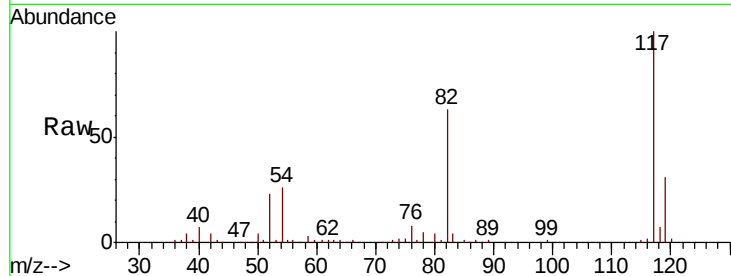




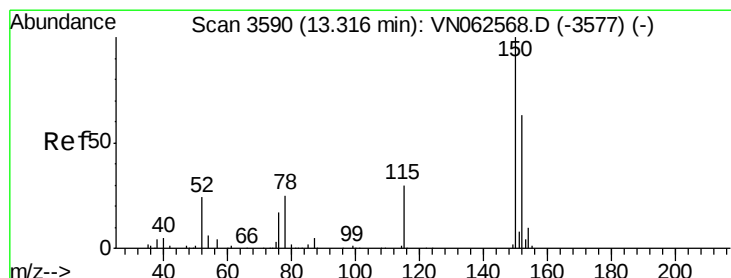
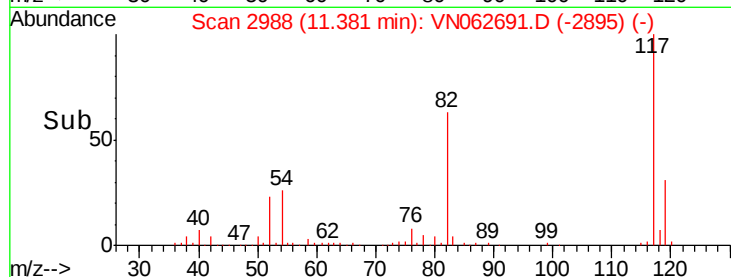
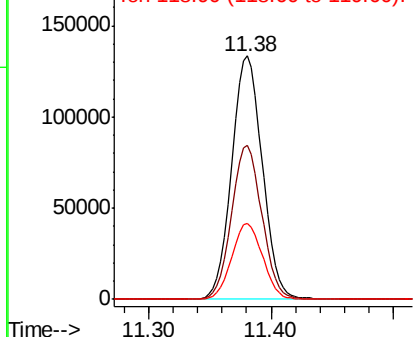
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#14

Tot Ion:117 Resp: 232922
Ion Ratio Lower Upper
117 100
82 63.1 49.0 73.6
119 31.1 25.4 38.2

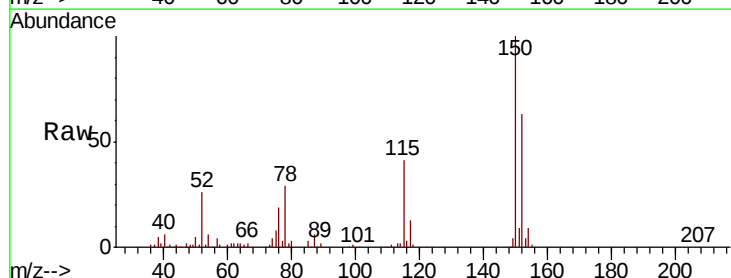


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

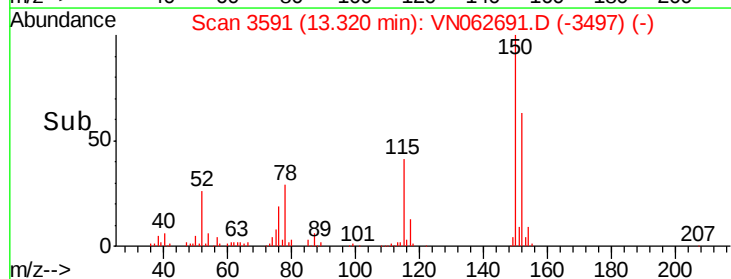
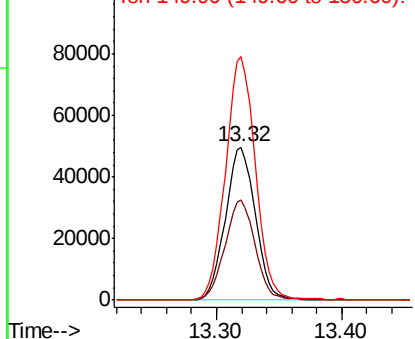


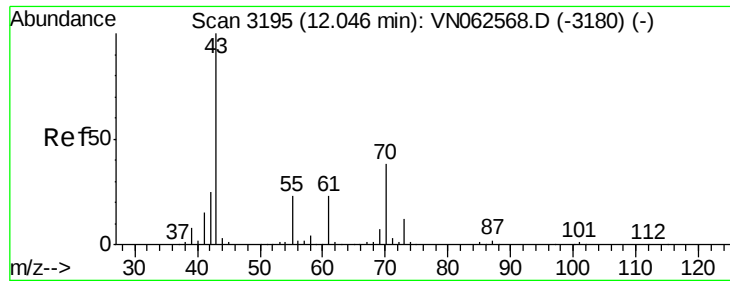
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062691.D
Acq: 31 Jul 2020 17:31

Tgt Ion:152 Resp: 82392
Ion Ratio Lower Upper
152 100
115 65.5 31.8 95.4
150 158.7 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-amvl acetate

Concen: 0.583 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062691.D

Acq: 31 Jul 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#14

Tot Ion: 43 Resp: 1695

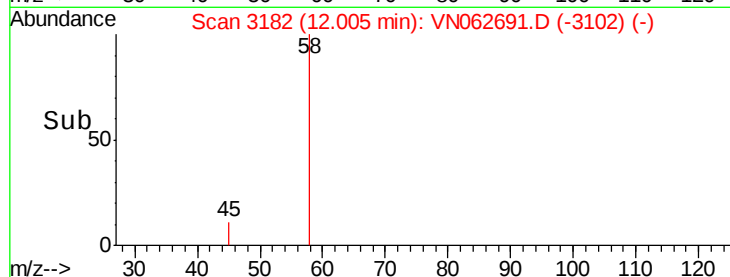
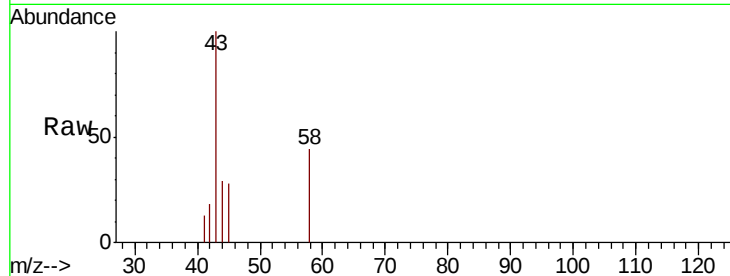
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

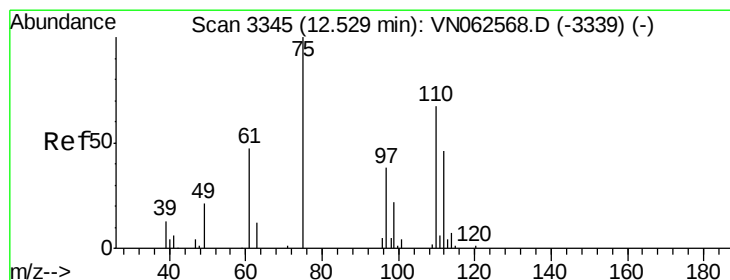
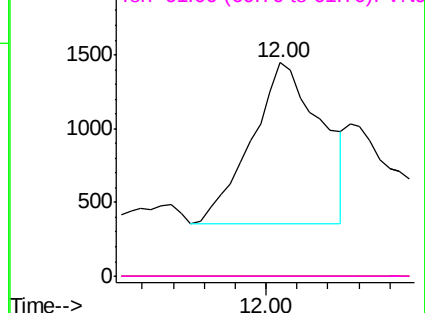


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.657 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062691.D

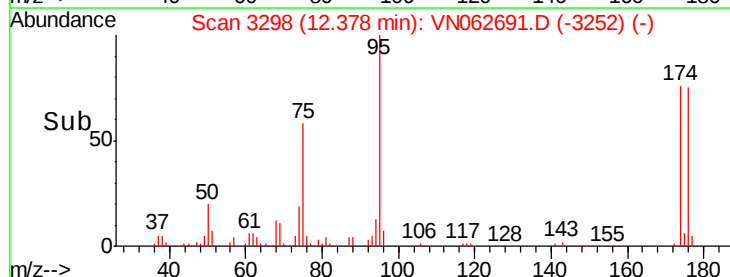
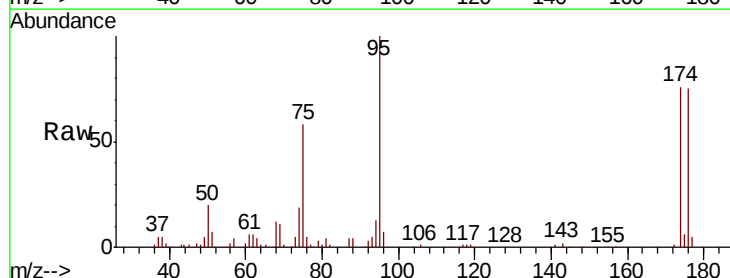
Acq: 31 Jul 2020 17:31

Tgt Ion: 75 Resp: 62195

Ion Ratio Lower Upper

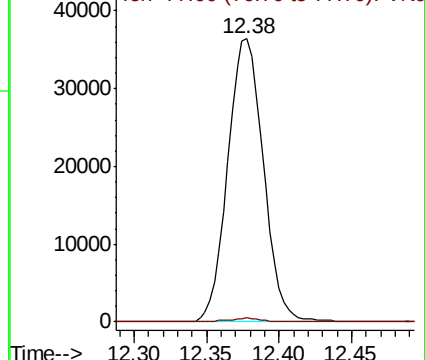
75 100

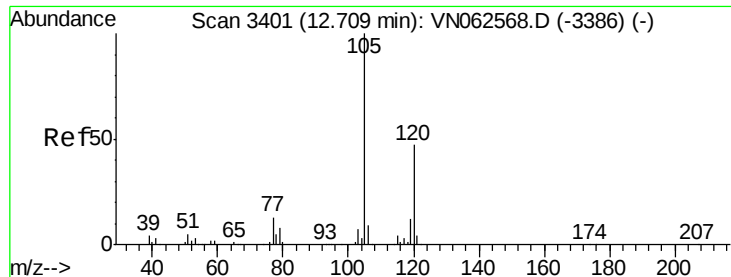
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

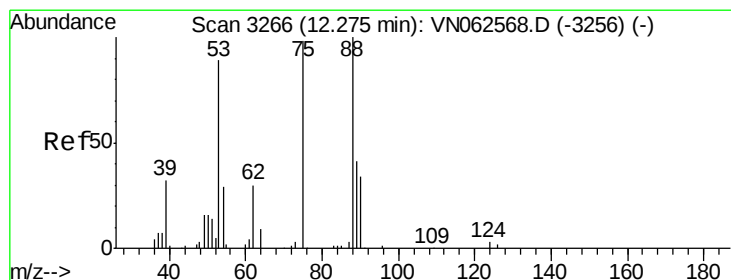
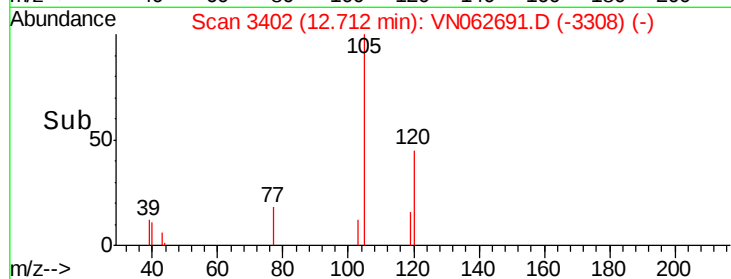
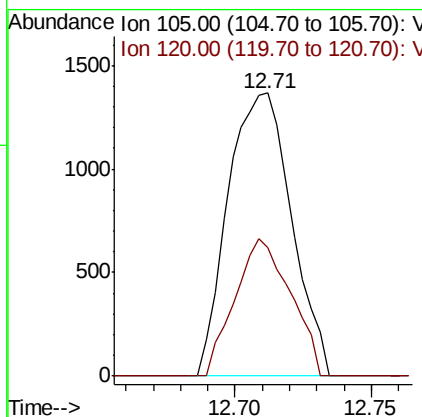
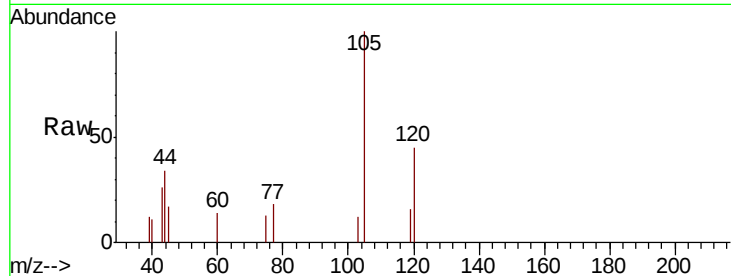




#80
 1,3,5-Trimethylbenzene
 Concen: 0.408 ug/l
 RT: 12.71 min Scan# 3402
 Delta R.T. 0.00 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#14

Tot Ion:105 Resp: 2206
 Ion Ratio Lower Upper
 105 100
 120 42.7 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.557 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062691.D
 Acq: 31 Jul 2020 17:31

Tgt Ion: 75 Resp: 62195
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#

