

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064043.D
 Acq On : 9 Oct 2020 17:14
 Operator : JC/MD
 Sample : L4327-04 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: Oct 10 01:30:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 16:42:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	44859	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	216015	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	201026	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		7.99	65	118842	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%	
60) 4-Bromofluorobenzene		12.38	95	77420	22.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.07%	
63) Toluene-d8		10.06	98	271596	29.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.37%	

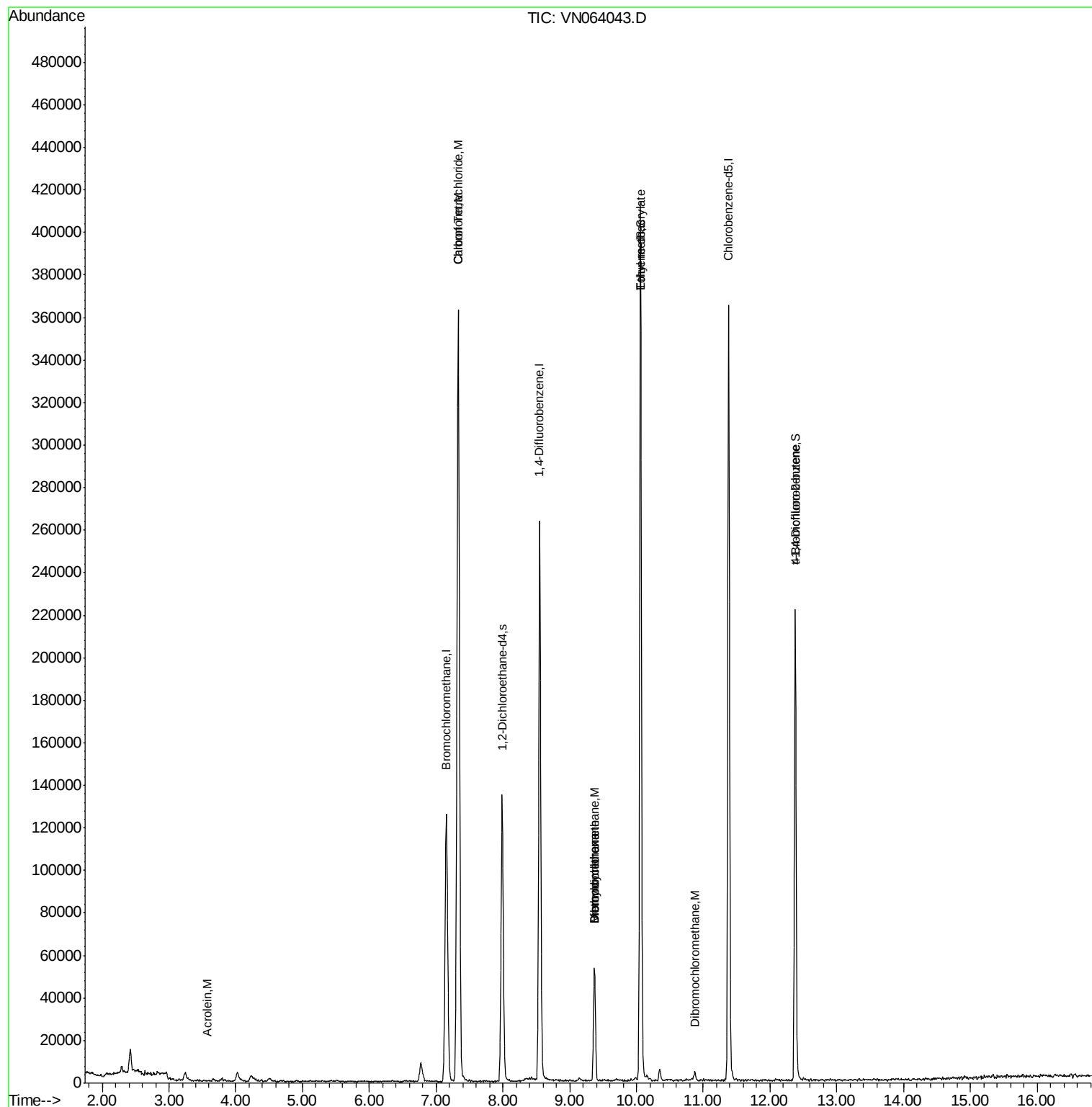
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acrolein	3.57	56	96	0.333	ug/l #	13
25) Chloroform	7.33	83	376201	65.804	ug/l	99
33) Carbon Tetrachloride	7.33	117	4224	0.999	ug/l	94
38) Methylcyclohexane	9.37	83	35812	11.212	ug/l #	16
40) Dibromomethane	9.37	93	944	0.463	ug/l #	2
41) Bromodichloromethane	9.37	83	35812	8.442	ug/l	98
51) Ethyl methacrylate	10.06	69	1164	0.294	ug/l #	56
53) Dibromochloromethane	10.87	129	1826	0.582	ug/l	93
77) t-1,4-Dichloro-2-butene	12.38	75	43256	31.611	ug/l #	12

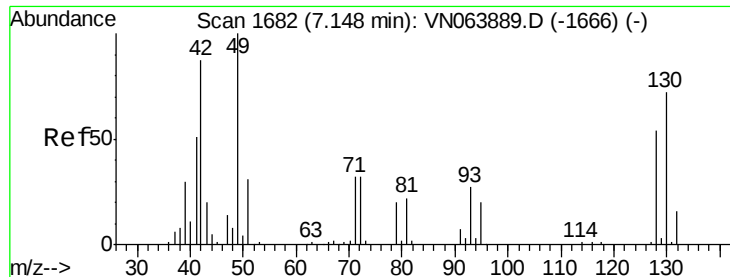
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 06 16:42:38 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN064043.D

Acq: 9 Oct 2020 17:14

Instrument :
MSVOA_N
ClientSampled :
14B-4

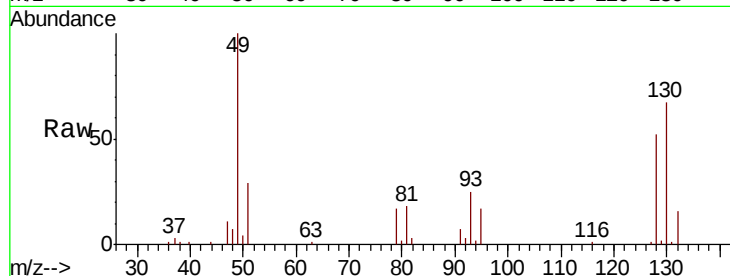
Tot Ion:128 Resp: 44859

Ion Ratio Lower Upper

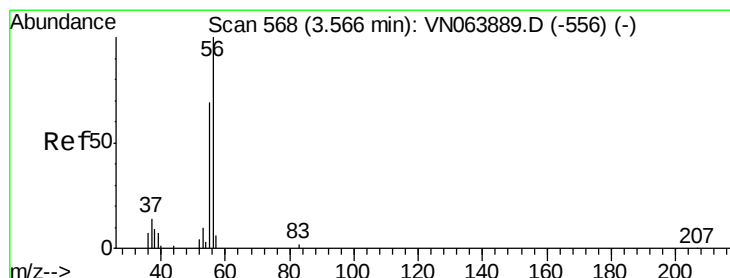
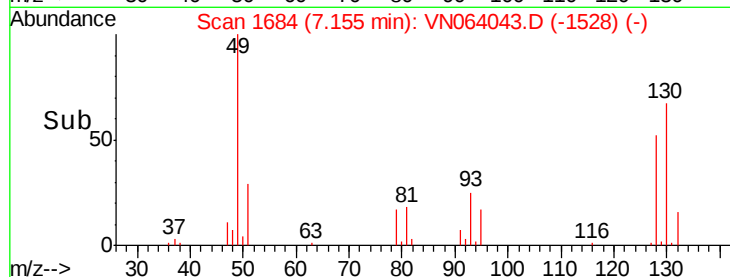
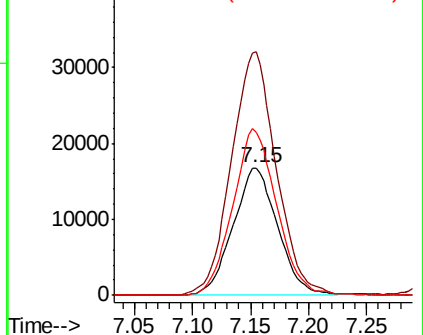
128 100

49 191.7 0.0 437.5

130 128.2 0.0 327.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.333 ug/l

RT: 3.57 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN064043.D

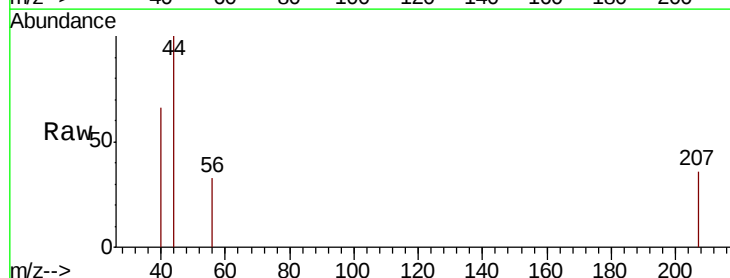
Acq: 9 Oct 2020 17:14

Tgt Ion: 56 Resp: 96

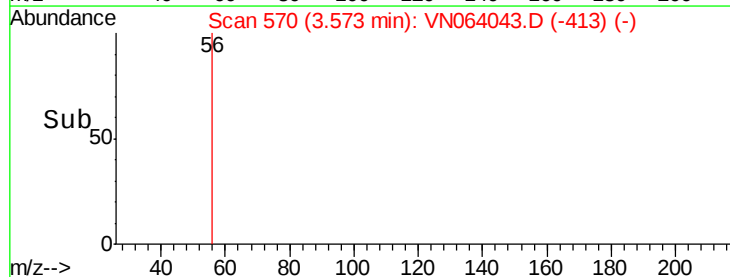
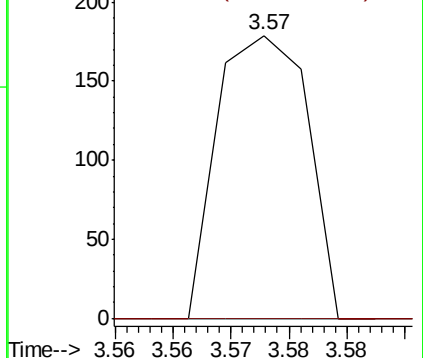
Ion Ratio Lower Upper

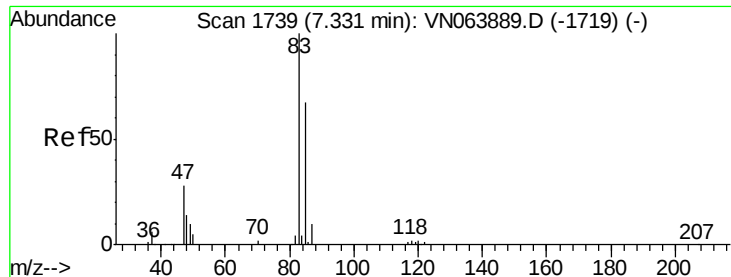
56 100

55 0.0 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#25

Chloroform

Concen: 65.804 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN064043.D

Acq: 9 Oct 2020 17:14

Instrument :

MSVOA_N

ClientSampleId :

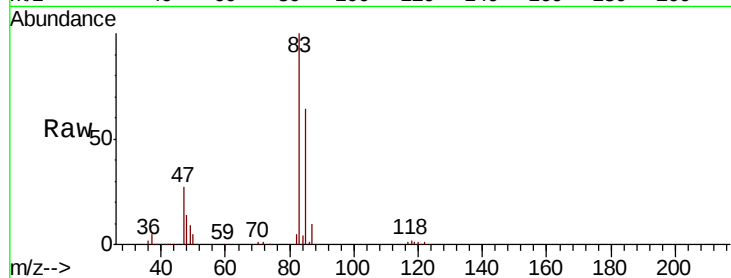
14B-4

Tot Ion: 83 Resp: 376201

Ion Ratio Lower Upper

83 100

85 64.4 51.0 76.4



Abundance Ion 83.00 (82.70 to 83.70): VN063889.D (-1719) (-)

Ion 85.00 (84.70 to 85.70): VN063889.D (-1719) (-)

7.33

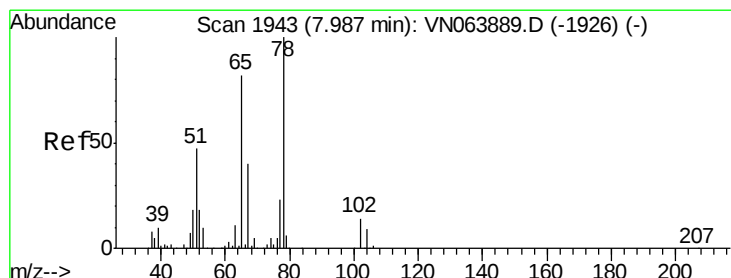
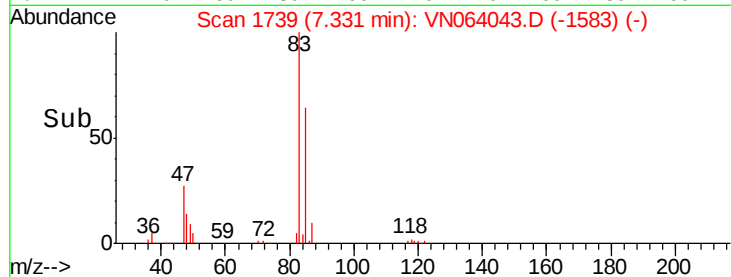
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.498 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064043.D

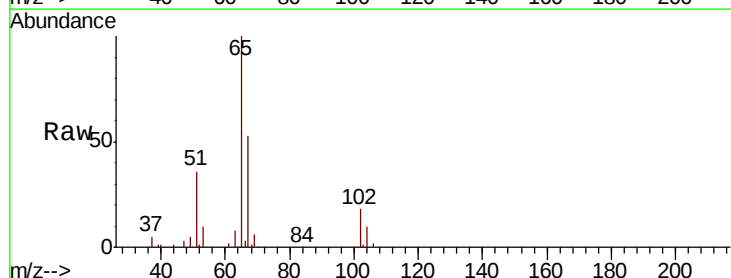
Acq: 9 Oct 2020 17:14

Tgt Ion: 65 Resp: 118842

Ion Ratio Lower Upper

65 100

67 51.4 43.8 65.6



Abundance Ion 65.00 (64.70 to 65.70): VN063889.D (-1926) (-)

Ion 67.00 (66.70 to 67.70): VN063889.D (-1926) (-)

7.99

60000

50000

40000

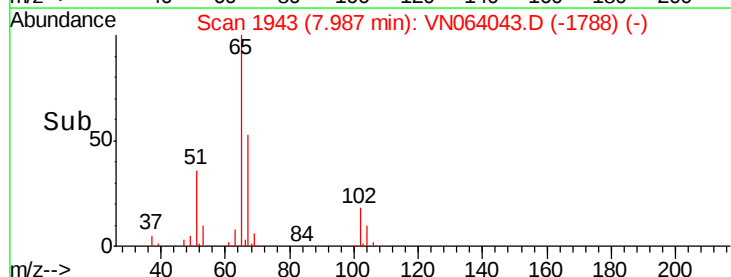
30000

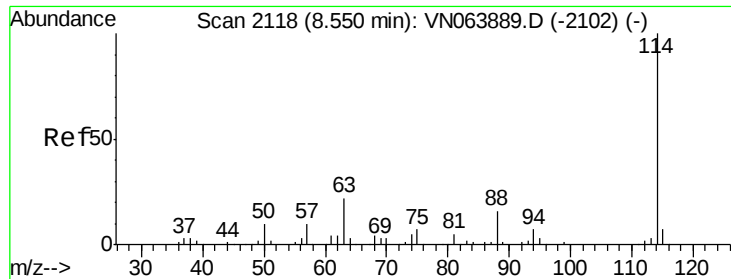
20000

10000

0

Time-->

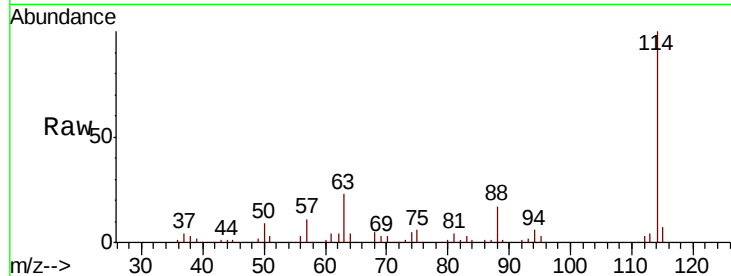




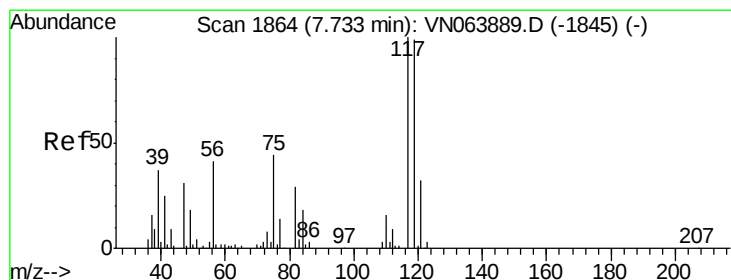
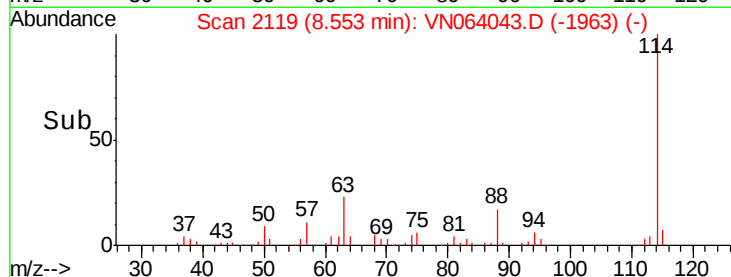
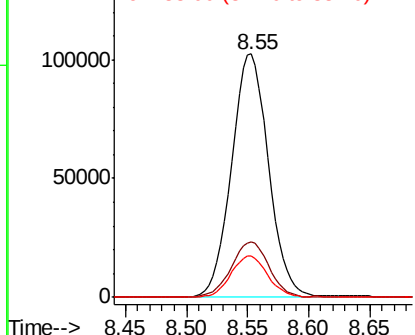
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064043.D
 Acq: 9 Oct 2020 17:14

Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

Tot Ion:114 Resp: 216015
 Ion Ratio Lower Upper
 114 100
 63 23.1 17.0 25.6
 88 17.0 12.6 18.8

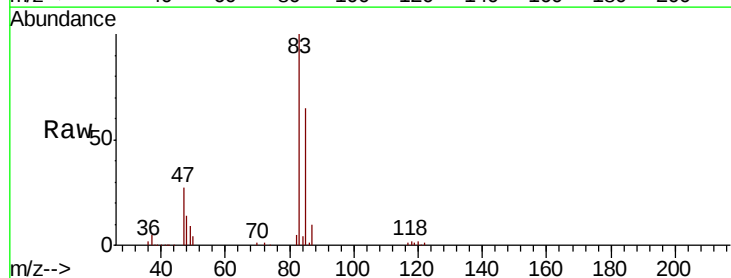


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

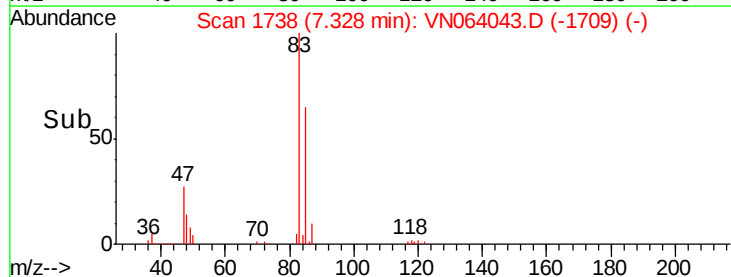
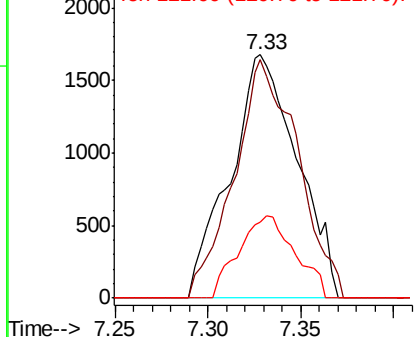


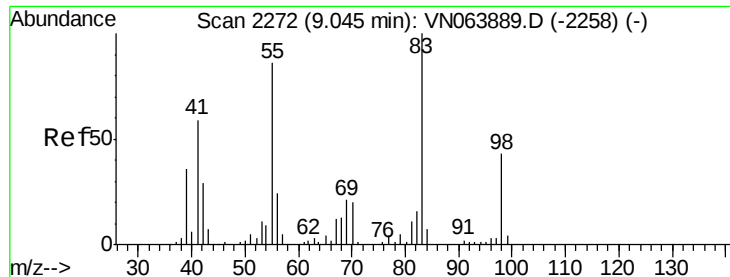
#33
 Carbon Tetrachloride
 Concen: 0.999 ug/l
 RT: 7.33 min Scan# 1738
 Delta R.T. -0.41 min
 Lab File: VN064043.D
 Acq: 9 Oct 2020 17:14

Tgt Ion:117 Resp: 4224
 Ion Ratio Lower Upper
 117 100
 119 98.2 73.0 109.4
 121 31.4 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V

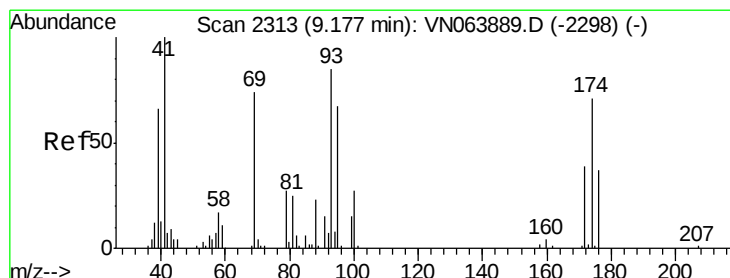
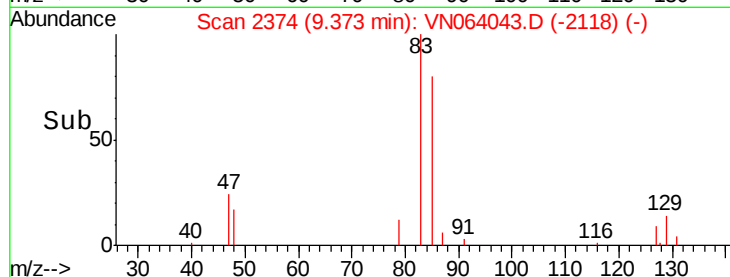
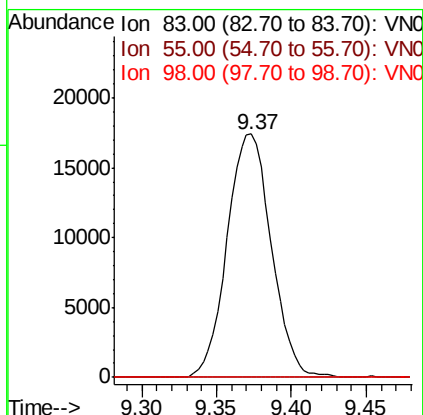
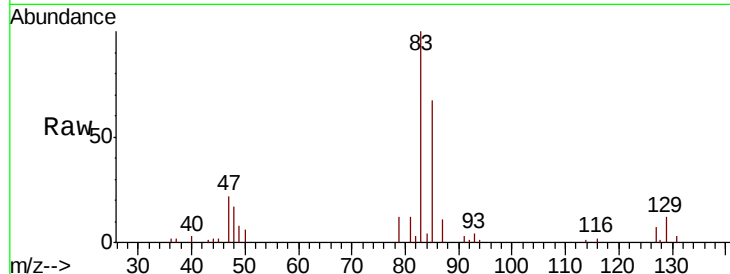




#38
Methylcyclohexane
Concen: 11.212 ug/l
RT: 9.37 min Scan# 2374
Delta R.T. 0.32 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

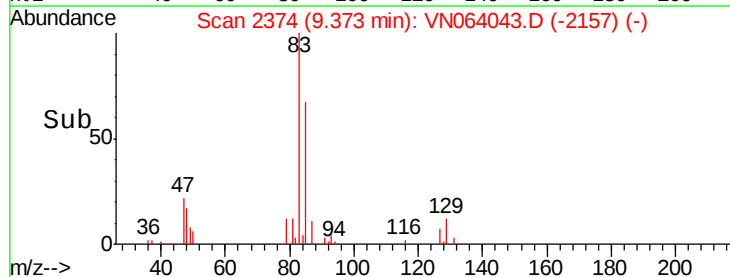
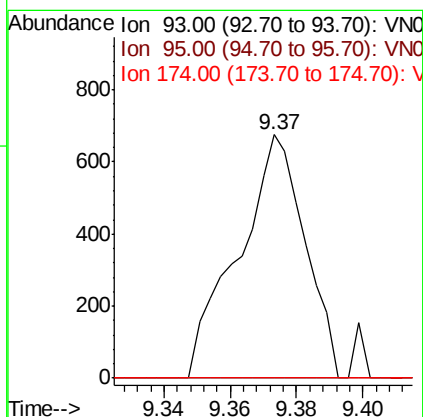
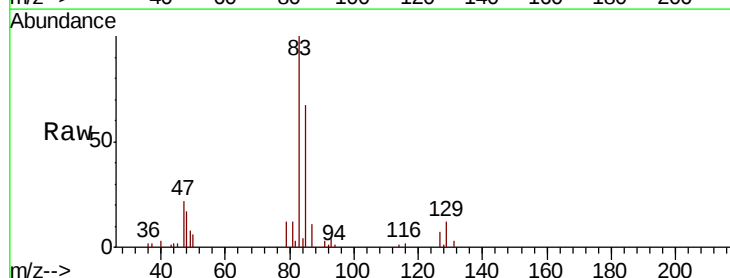
Instrument :
MSVOA_N
ClientSampleId :
14B-4

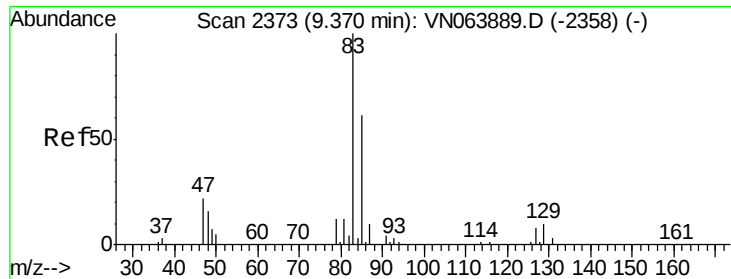
Tot Ion: 83 Resp: 35812
Ion Ratio Lower Upper
83 100
55 0.0 41.9 125.7#
98 0.0 22.2 66.6#



#40
Dibromomethane
Concen: 0.463 ug/l
RT: 9.37 min Scan# 2374
Delta R.T. 0.20 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

Tgt Ion: 93 Resp: 944
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.2
174 0.0 0.0 208.4





#41

Bromodichloromethane

Concen: 8.442 ug/l

RT: 9.37 min Scan# 2374

Delta R.T. 0.01 min

Lab File: VN064043.D

Acq: 9 Oct 2020 17:14

Instrument :

MSVOA_N

ClientSampleId :

14B-4

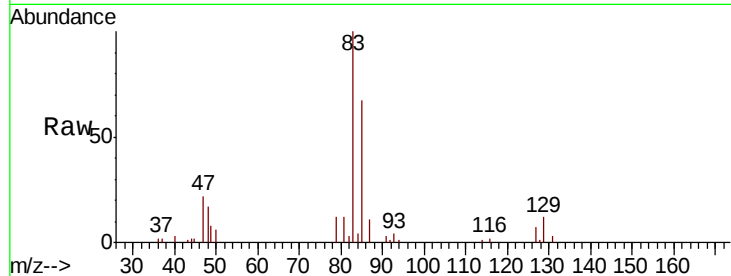
Tot Ion: 83 Resp: 35812

Ion Ratio Lower Upper

83 100

85 66.7 52.6 79.0

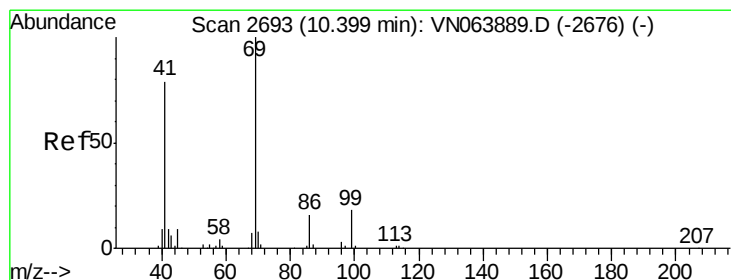
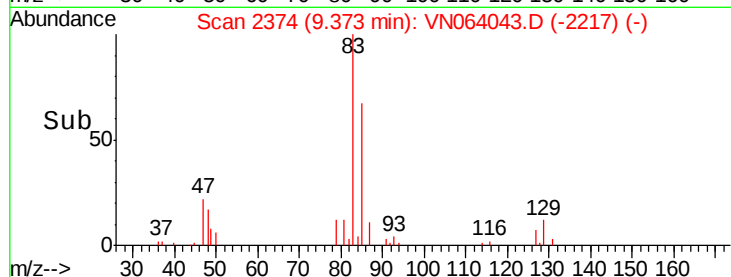
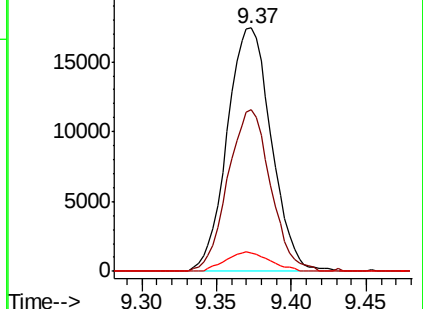
127 7.4 7.4 11.0



Abundance Ion 83.00 (82.70 to 83.70): VN063889.D (-2358) (-)

Ion 85.00 (84.70 to 85.70): VN063889.D (-2358) (-)

Ion 127.00 (126.70 to 127.70): VN063889.D (-2358) (-)



#51

Ethyl methacrylate

Concen: 0.294 ug/l

RT: 10.06 min Scan# 2589

Delta R.T. -0.34 min

Lab File: VN064043.D

Acq: 9 Oct 2020 17:14

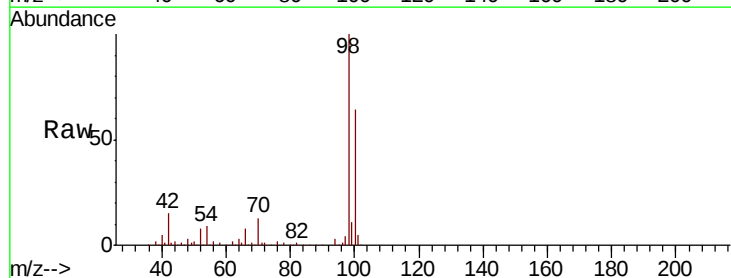
Tgt Ion: 69 Resp: 1164

Ion Ratio Lower Upper

69 100

41 100.4 32.1 96.5#

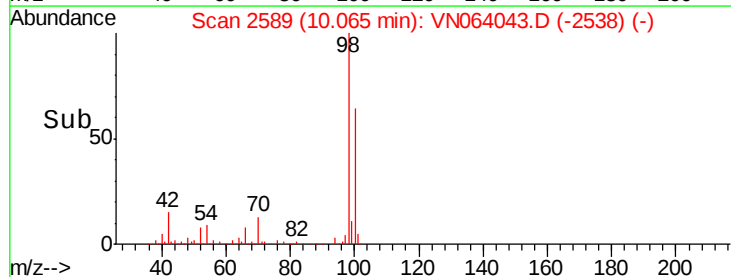
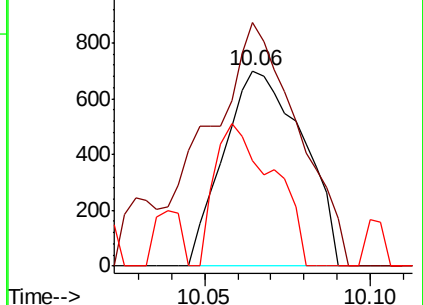
39 53.7 16.1 48.3#

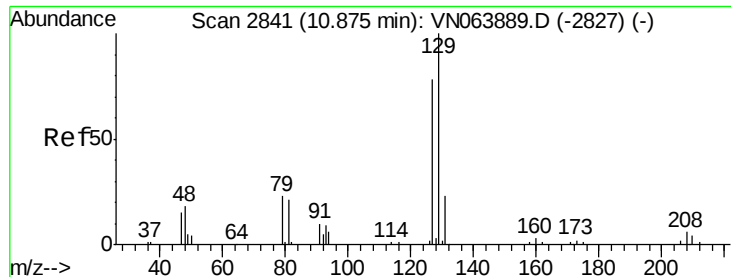


Abundance Ion 69.00 (68.70 to 69.70): VN063889.D (-2676) (-)

Ion 41.00 (40.70 to 41.70): VN063889.D (-2676) (-)

Ion 39.00 (38.70 to 39.70): VN063889.D (-2676) (-)

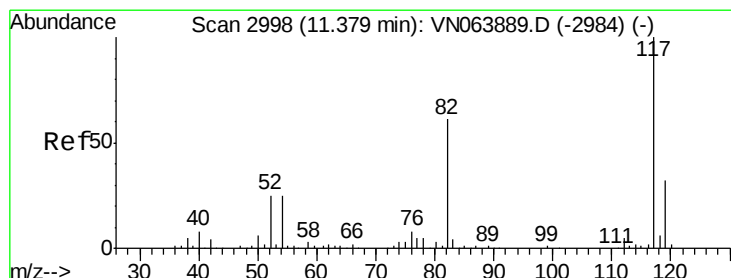
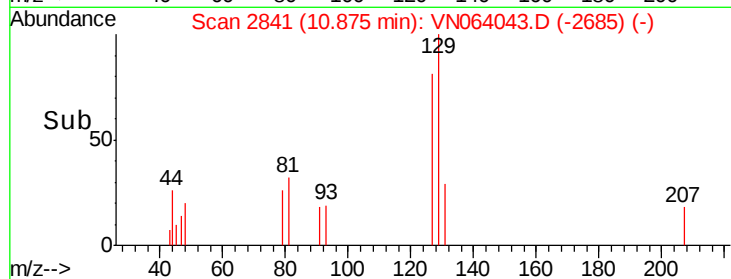
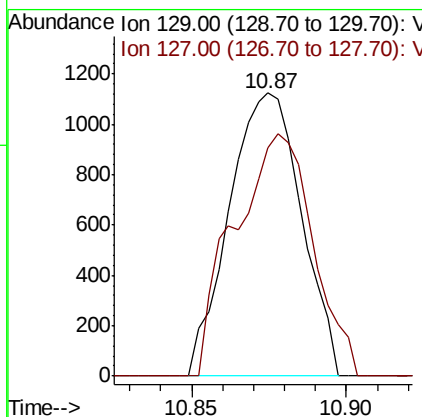
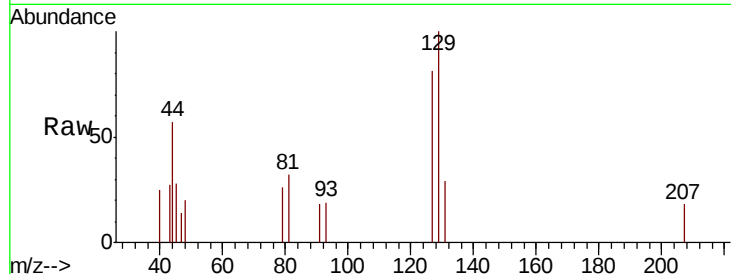




#53
Dibromochloromethane
Concen: 0.582 ug/l
RT: 10.87 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

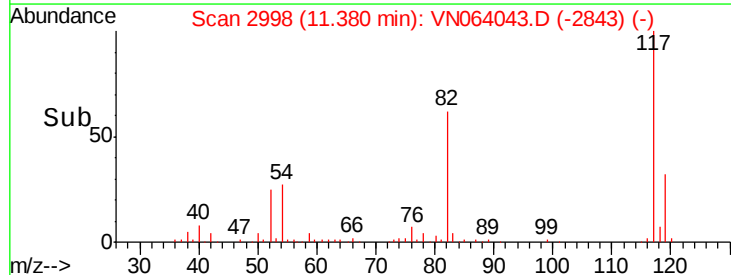
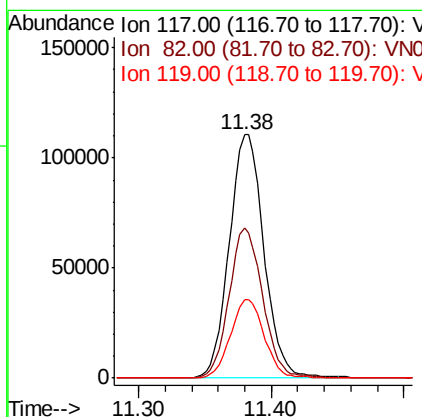
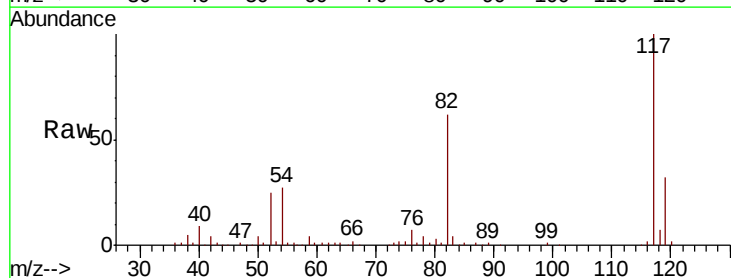
Instrument :
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14B-4

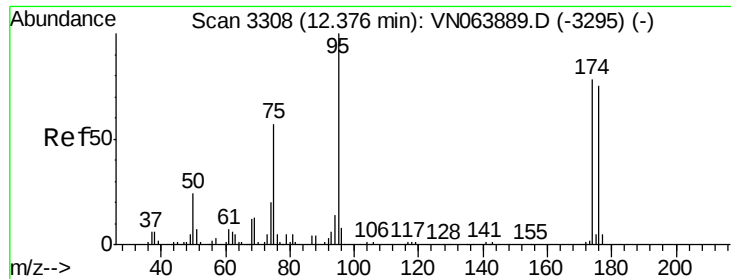
Tot Ion:129 Resp: 1826
Ion Ratio Lower Upper
129 100
127 71.7 38.7 116.1



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

Tgt Ion:117 Resp: 201026
Ion Ratio Lower Upper
117 100
82 59.9 44.9 67.3
119 31.5 26.0 39.0

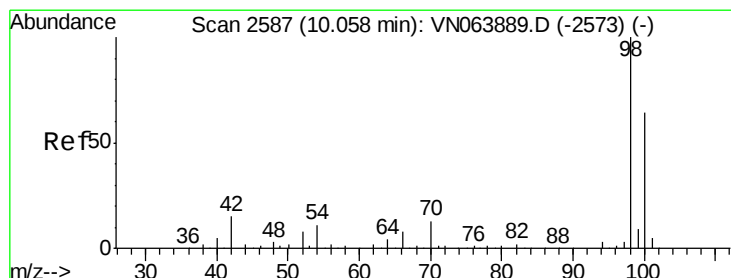
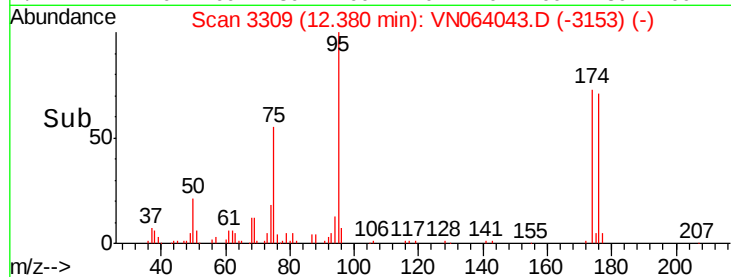
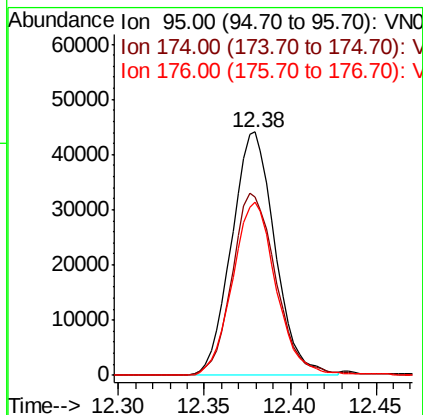
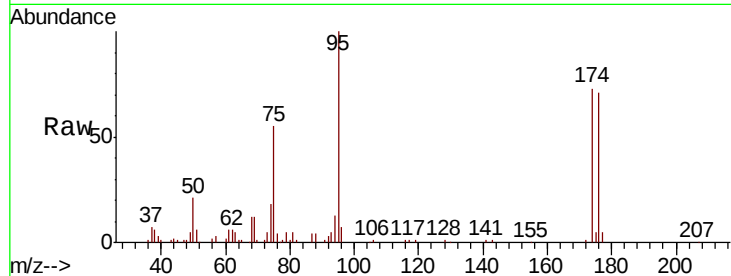




#60
4-Bromofluorobenzene
Concen: 22.520 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

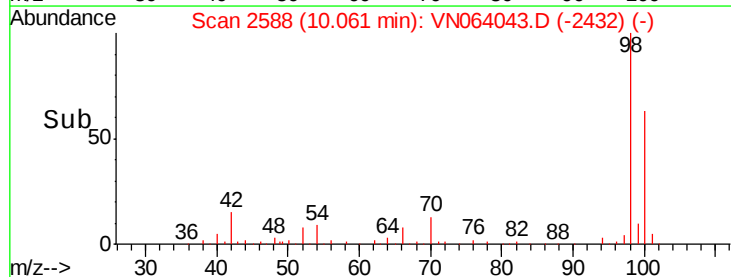
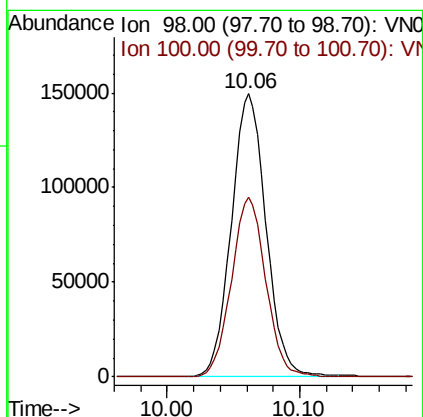
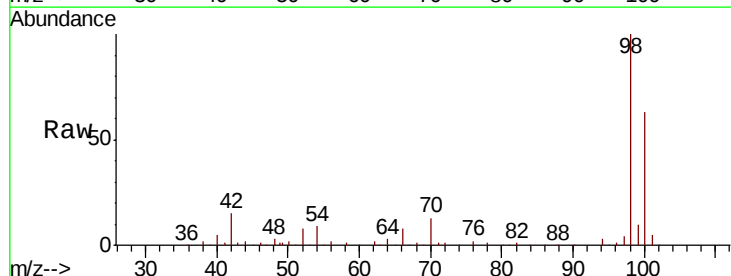
Instrument :
MSVOA_N
ClientSampleId :
14B-4

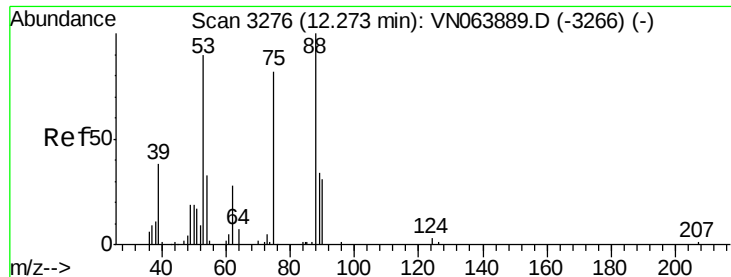
Tot Ion: 95 Resp: 77420
Ion Ratio Lower Upper
95 100
174 76.0 70.1 105.1
176 71.2 66.8 100.2



#63
Toluene-d8
Concen: 29.812 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

Tgt Ion: 98 Resp: 271596
Ion Ratio Lower Upper
98 100
100 62.8 51.4 77.2





#77
t-1,4-Dichloro-2-butene
Concen: 31.611 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064043.D
Acq: 9 Oct 2020 17:14

Instrument :
MSVOA_N
ClientSampleId :
14B-4

Tot Ion: 75 Resp: 43256
Ion Ratio Lower Upper
75 100
53 0.0 47.0 141.0#
89 0.0 22.9 68.7#

