

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101620\
 Data File : VN064166.D
 Acq On : 16 Oct 2020 15:57
 Operator : JC/MD
 Sample : PB132401TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132401TB

Quant Time: Oct 17 01:29:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	304298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	578755	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	596097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	220539	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	264096	60.94	ug/l	0.00
Spiked Amount			Recovery	=	121.88%	
35) Dibromofluoromethane	7.55	113	205817	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
50) Toluene-d8	10.06	98	761482	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	12.38	95	255473	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	

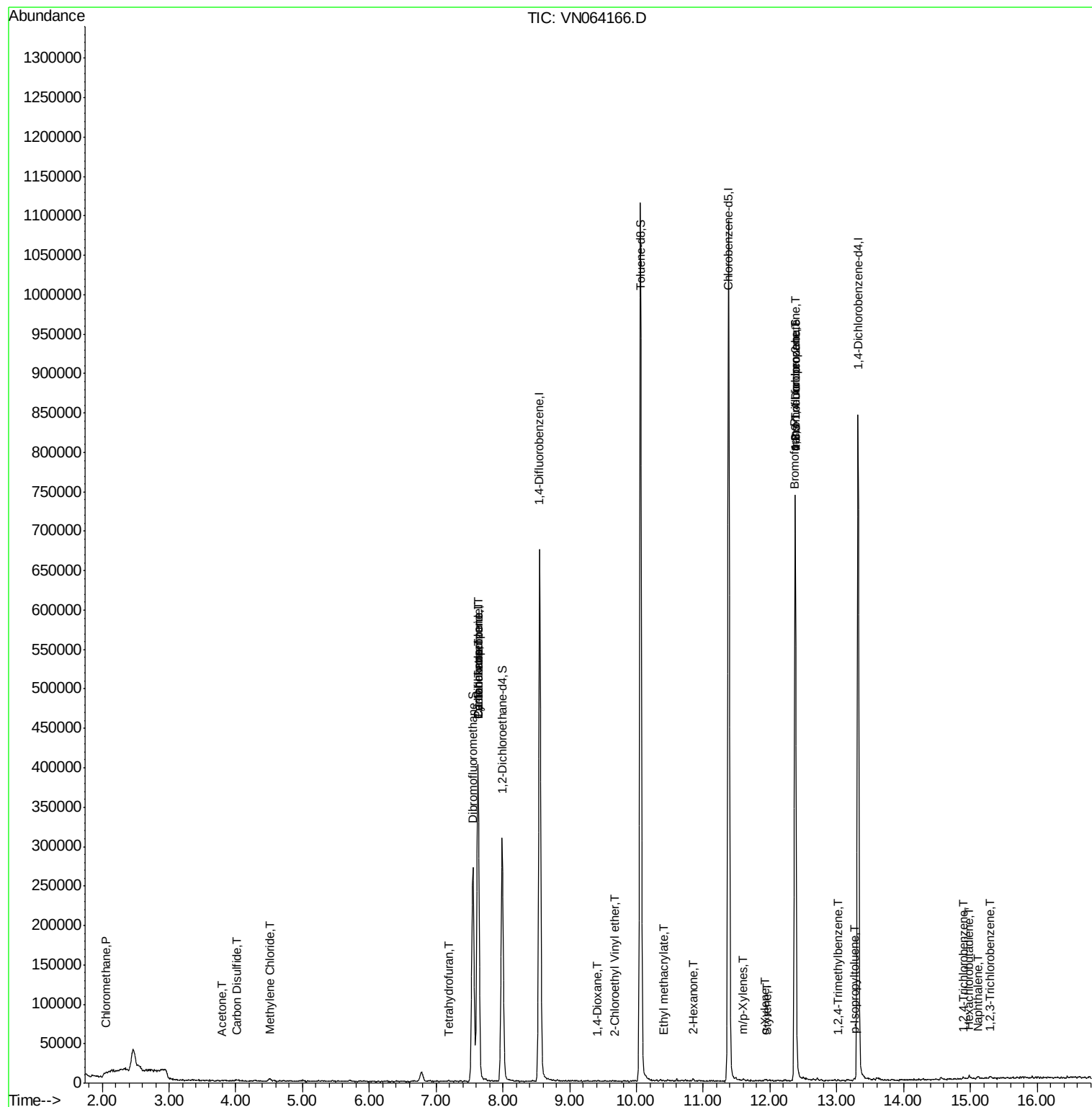
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	788	0.221	ug/l #	42
16) Acetone	3.78	43	526	0.409	ug/l #	43
17) Carbon Disulfide	4.02	76	2610	0.301	ug/l #	74
20) Methylene Chloride	4.51	84	1901	0.478	ug/l #	85
29) Tetrahydrofuran	7.18	42	628	0.543	ug/l #	38
31) Cyclohexane	7.63	56	8218	1.715	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	27015	4.843	ug/l #	45
38) Carbon Tetrachloride	7.63	117	31704	5.285	ug/l #	16
49) 1,4-Dioxane	9.41	88	30	0.521	ug/l #	1
56) Ethyl methacrylate	10.42	69	129	2.318	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.67	63	73	12.241	ug/l #	48
59) 2-Hexanone	10.85	43	152	6.877	ug/l	90
68) m/p-Xylenes	11.59	106	455	2.243	ug/l	96
69) o-Xylene	11.92	106	130	1.598	ug/l	49
70) Styrene	11.95	104	376	2.062	ug/l #	72
71) Bromoform	12.36	173	203	2.280	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	137915	26.656	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	137915	81.437	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	782	0.243	ug/l #	54
86) p-Isopropyltoluene	13.27	119	1040	0.742	ug/l #	69
93) 1,2,4-Trichlorobenzene	14.89	180	877	3.413	ug/l #	48
94) Hexachlorobutadiene	14.98	225	978	0.571	ug/l #	60
95) Naphthalene	15.12	128	2667	4.026	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.29	180	725	3.005	ug/l	70

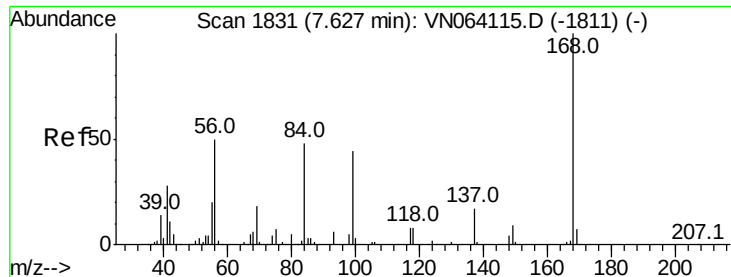
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

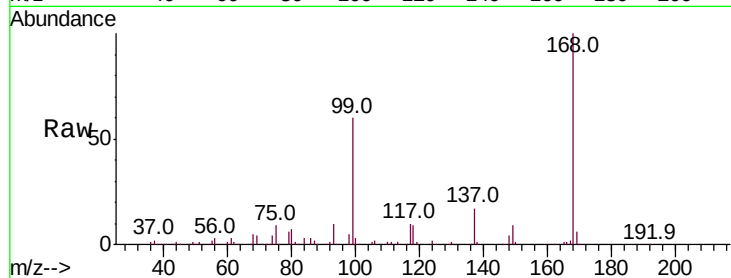
PB132401TB

Tot Ion:168 Resp: 304298

Ion Ratio Lower Upper

168 100

99 59.9 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN064115.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064115.D (-1811) (-)

7.63

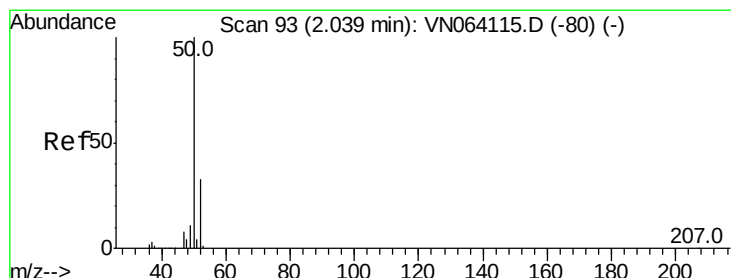
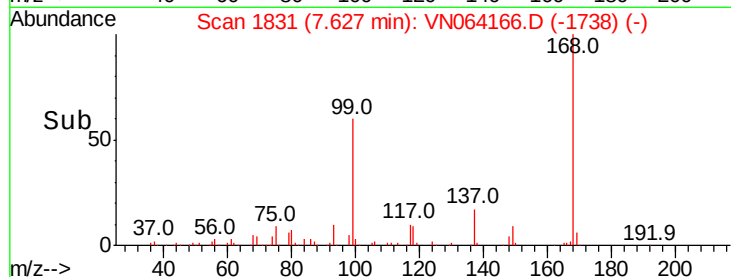
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.221 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064166.D

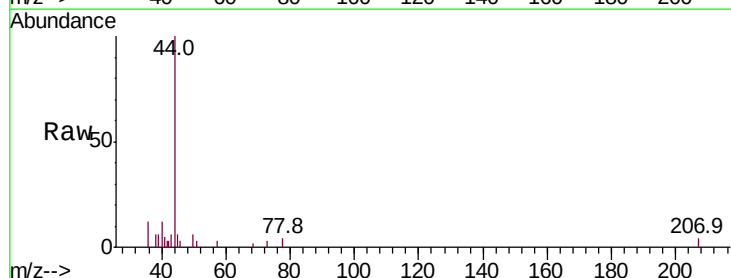
Acq: 16 Oct 2020 15:57

Tgt Ion: 50 Resp: 788

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN064115.D (-80) (-)

Ion 51.90 (51.60 to 52.60): VN064115.D (-80) (-)

2.04

400

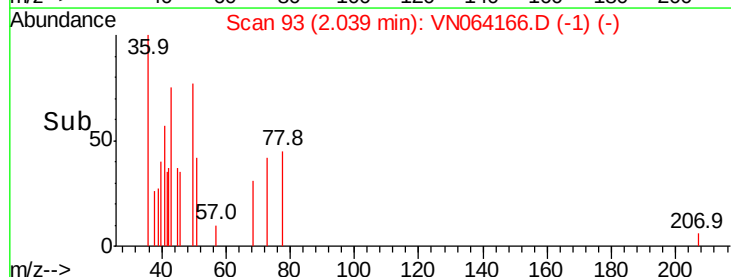
300

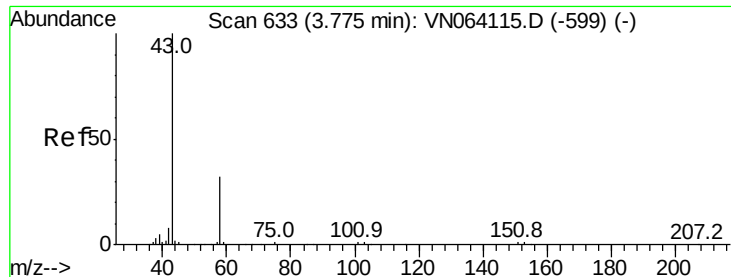
200

100

0

Time--> 2.00 2.02 2.04 2.06





#16

Acetone

Concen: 0.409 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

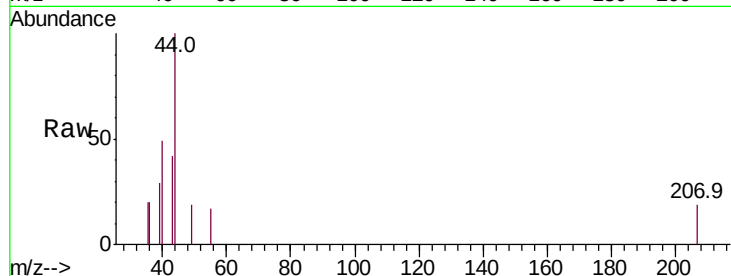
PB132401TB

Tot Ion: 43 Resp: 526

Ion Ratio Lower Upper

43 100

58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN064115.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN064115.D (-599) (-)

600

500

400

300

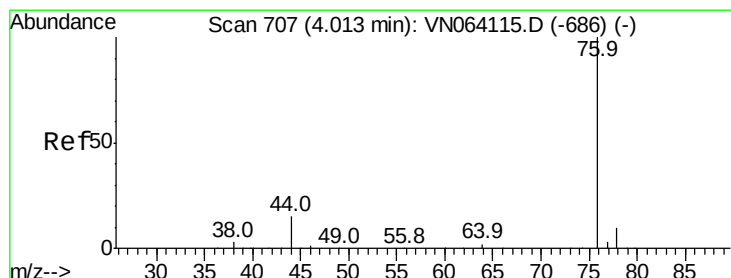
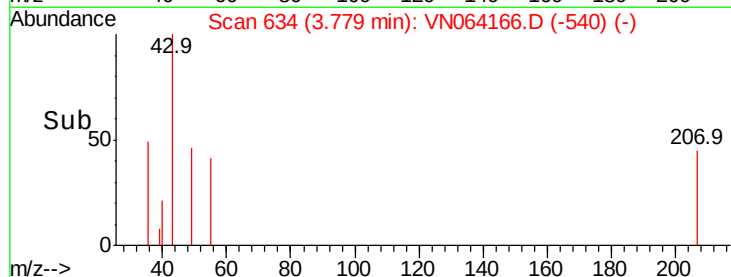
200

100

0

3.74 3.76 3.78 3.80

Time-->



#17

Carbon Disulfide

Concen: 0.301 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064166.D

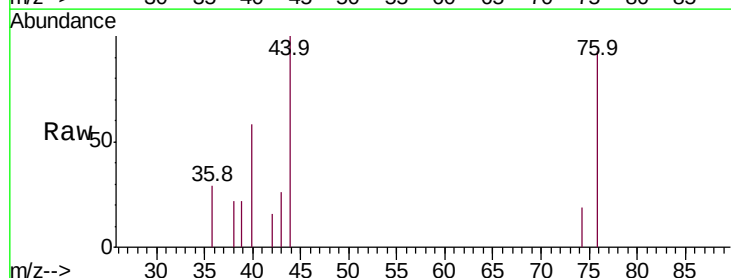
Acq: 16 Oct 2020 15:57

Tgt Ion: 76 Resp: 2610

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN064115.D (-686) (-)

Ion 77.90 (77.60 to 78.60): VN064115.D (-686) (-)

1000

800

600

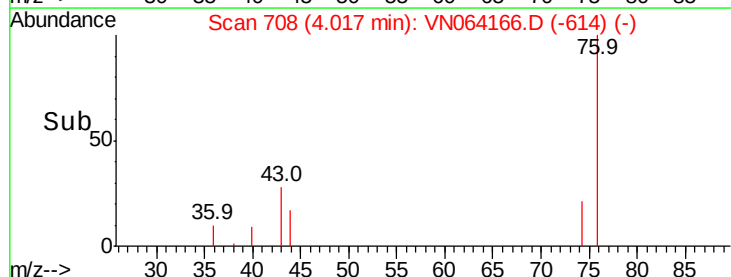
400

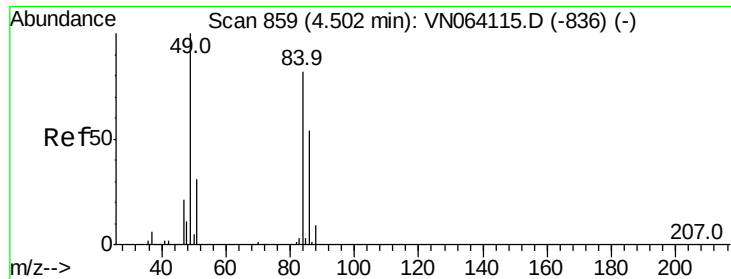
200

0

3.95 4.00 4.05

Time-->

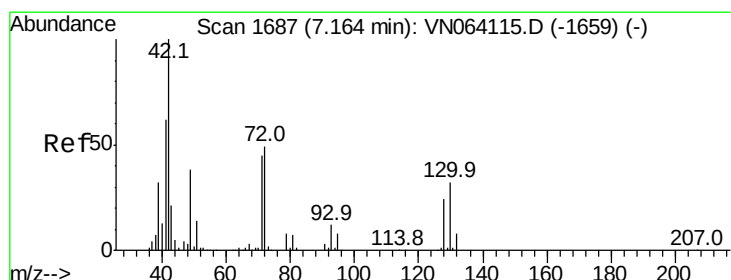
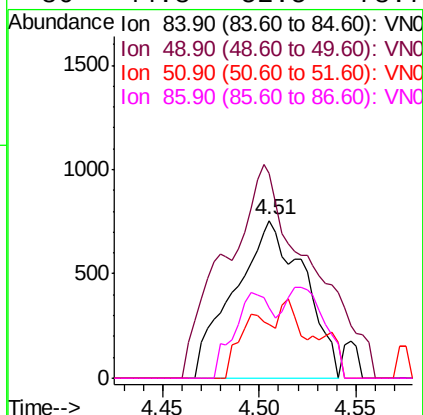
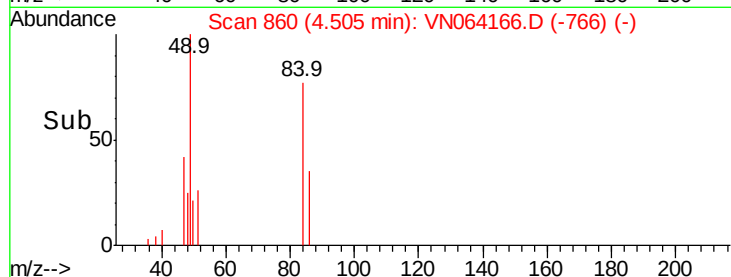
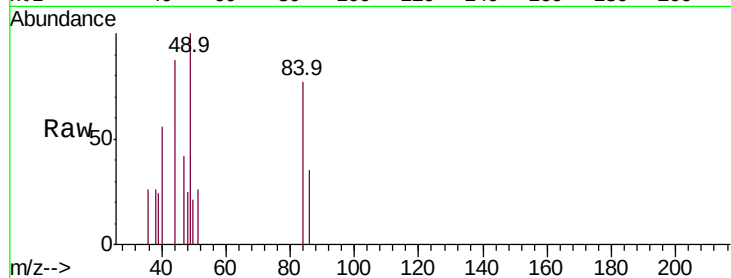




#20
Methvlene Chloride
Concen: 0.478 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

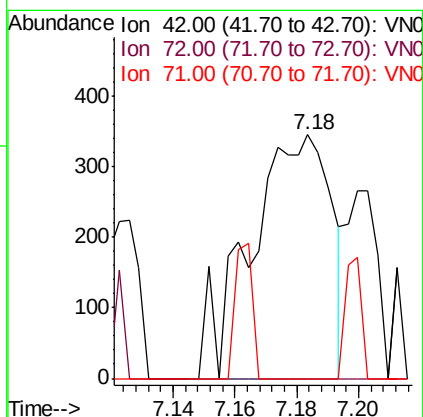
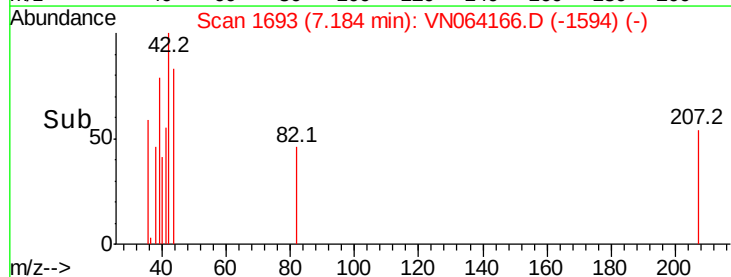
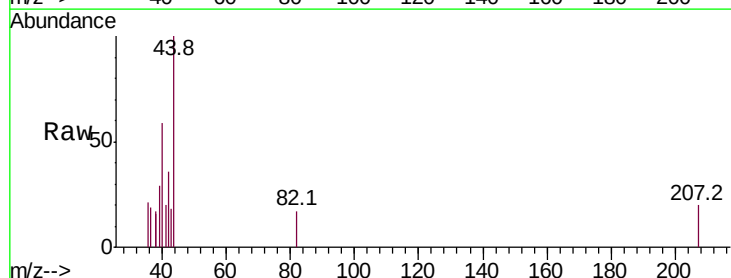
Instrument :
MSVOA_N
ClientSampled :
PB132401TB

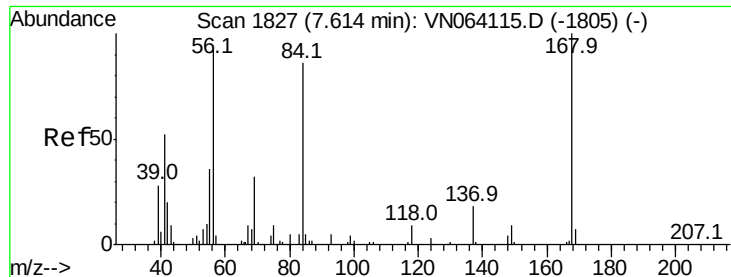
Tot Ion: 84 Resp: 1901
Ion Ratio Lower Upper
84 100
49 107.5 97.4 146.0
51 33.7 29.7 44.5
86 44.8 52.5 78.7#



#29
Tetrahydrofuran
Concen: 0.543 ug/l
RT: 7.18 min Scan# 1693
Delta R.T. 0.02 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

Tgt Ion: 42 Resp: 628
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 10.2 35.3 52.9#

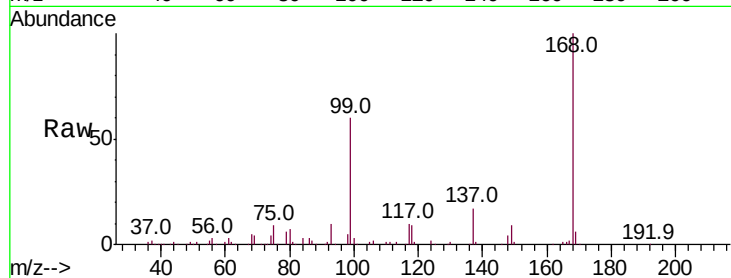




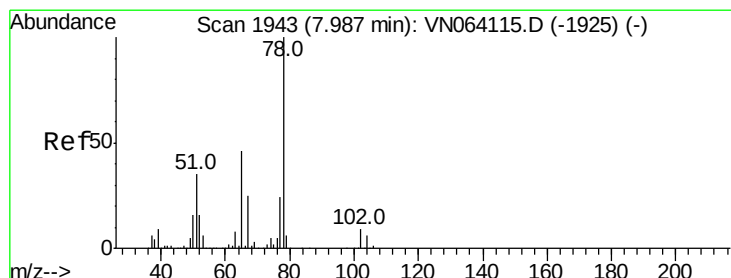
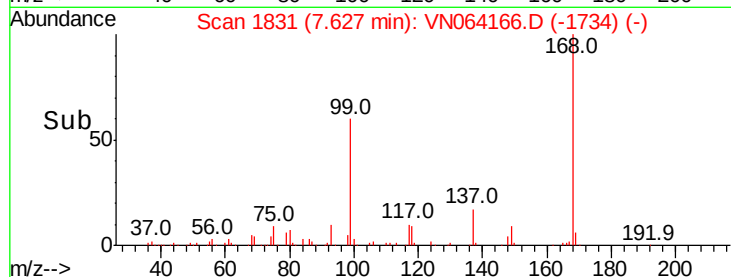
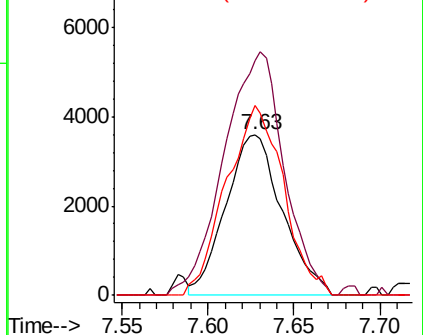
#31
Cyclohexane
Concen: 1.715 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

Instrument :
MSVOA_N
ClientSampleId :
PB132401TB

Tot Ion: 56 Resp: 8218
Ion Ratio Lower Upper
56 100
69 145.8 27.8 41.6#
84 118.2 73.2 109.8#

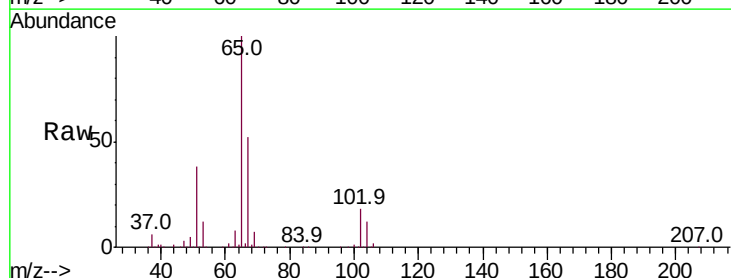


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

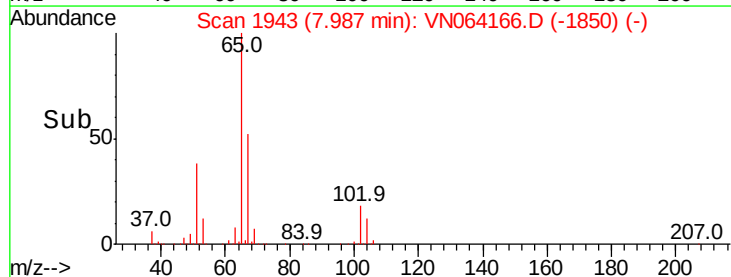
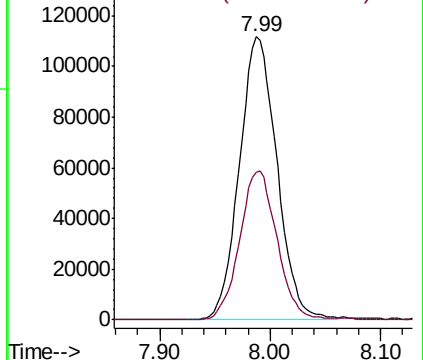


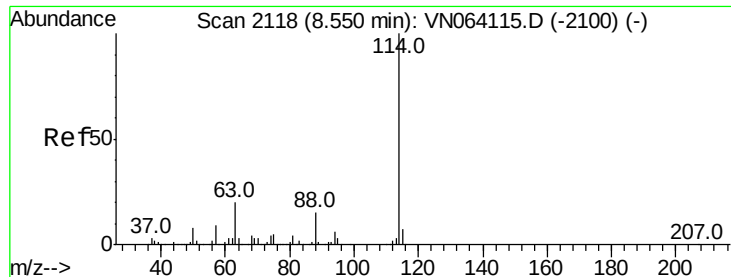
#33
1,2-Dichloroethane-d4
Concen: 60.938 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

Tgt Ion: 65 Resp: 264096
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132401TB

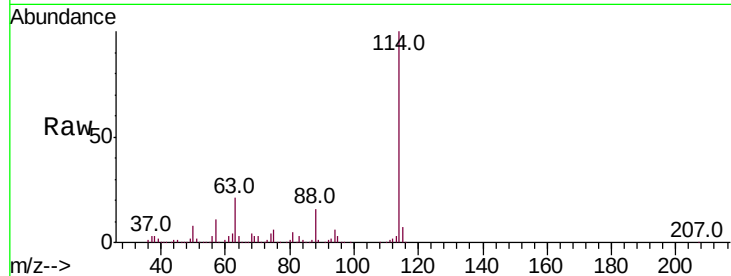
Tot Ion:114 Resp: 578755

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.0

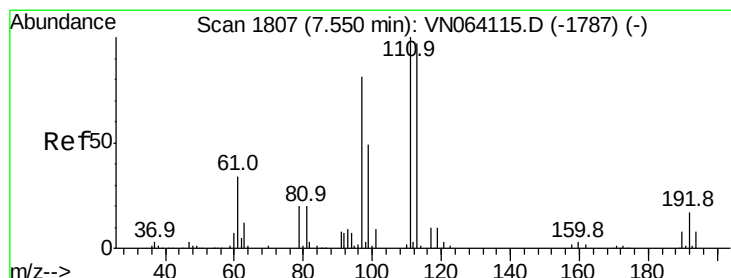
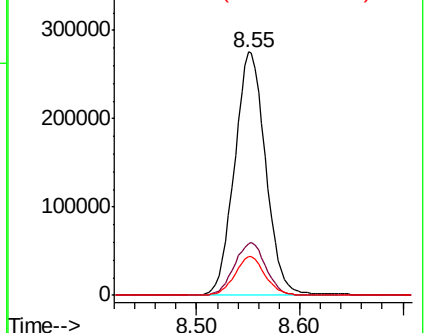
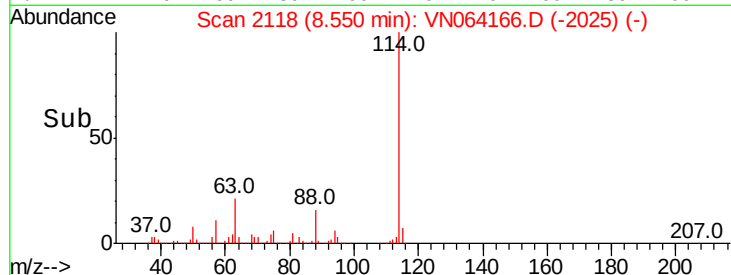
88 15.9 0.0 29.2



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: 51.379 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

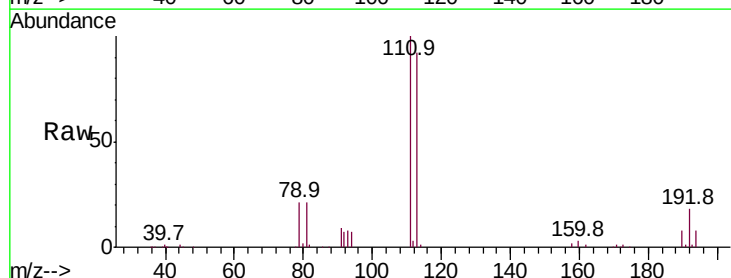
Tgt Ion:113 Resp: 205817

Ion Ratio Lower Upper

113 100

111 103.7 81.9 122.9

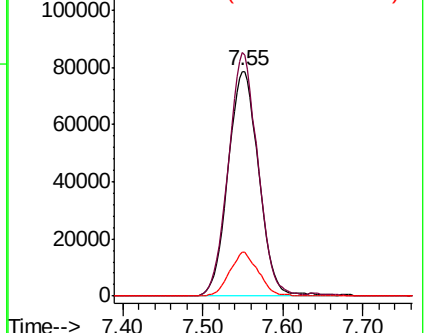
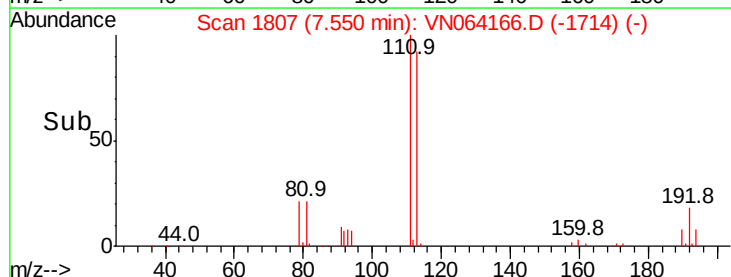
192 18.1 14.3 21.5

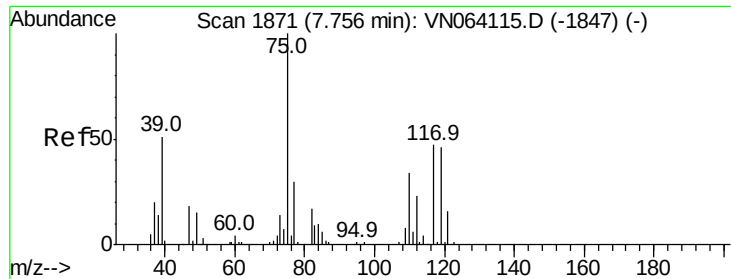


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

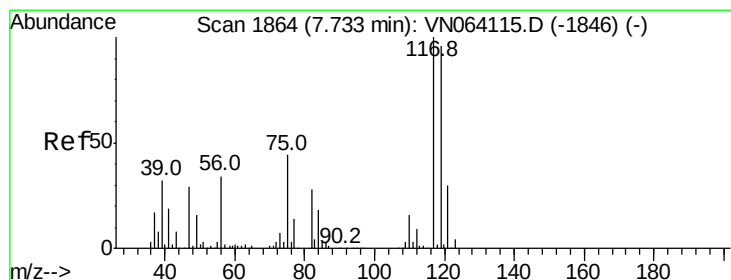
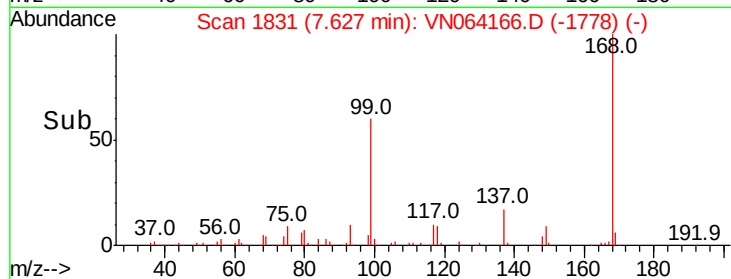
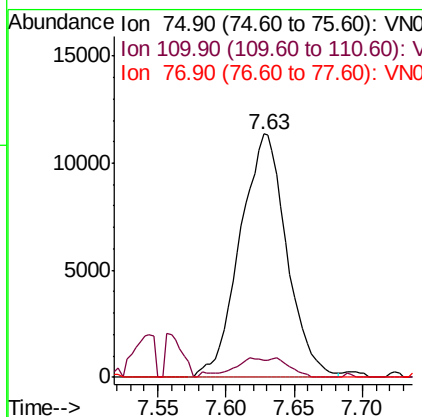
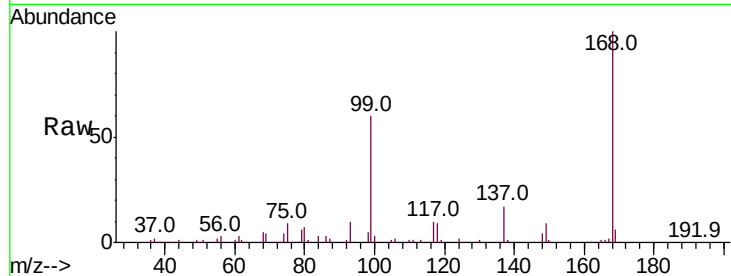




#36
 1,1-Dichloropropene
 Concen: 4.843 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

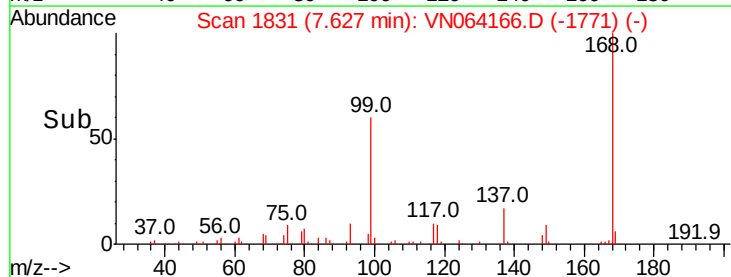
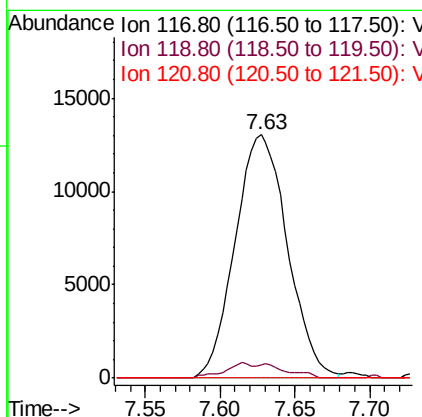
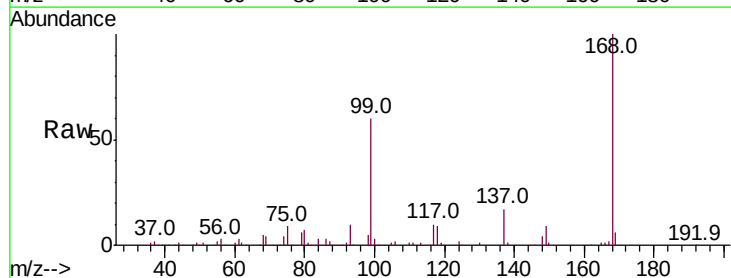
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132401TB

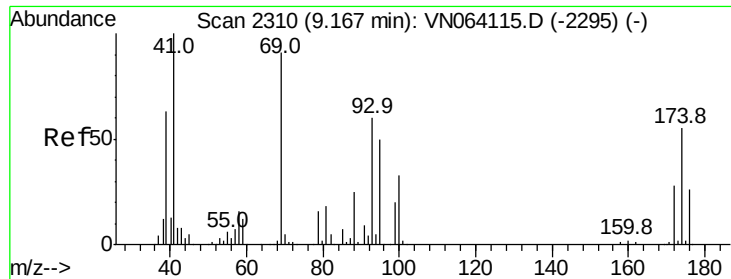
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.6	17.8	53.3#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.285 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.0	115.4#
121	0.0	24.2	36.4#





#49

1,4-Dioxane

Concen: 0.521 ug/l

RT: 9.41 min Scan# 2385

Delta R.T. 0.24 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

PB132401TB

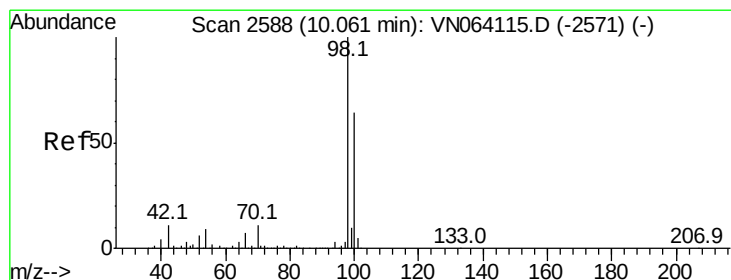
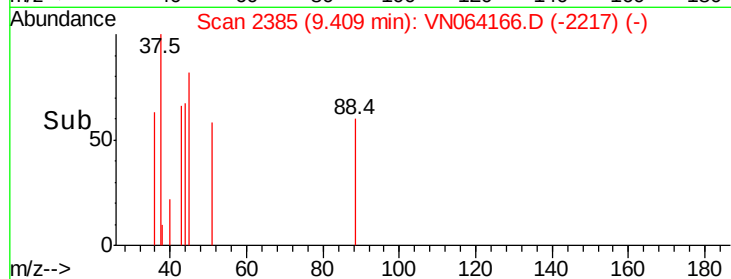
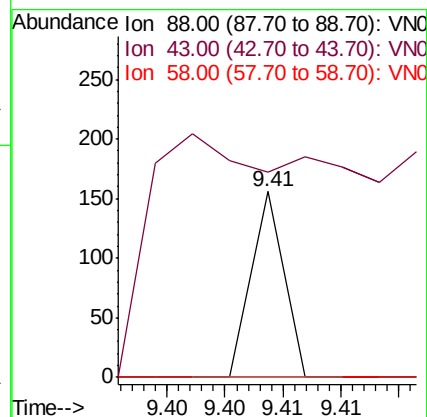
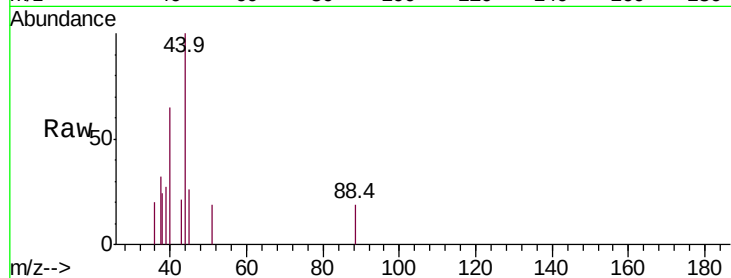
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 473.3 27.2 40.8#

58 0.0 52.6 78.8#



#50

Toluene-d8

Concen: 50.380 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064166.D

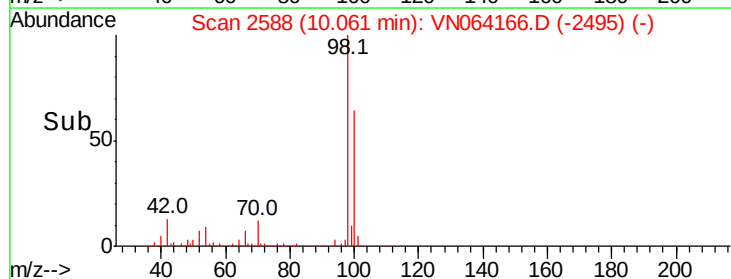
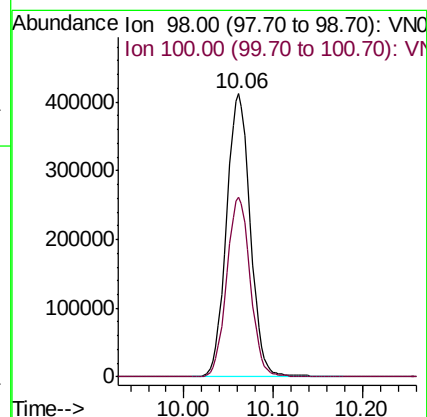
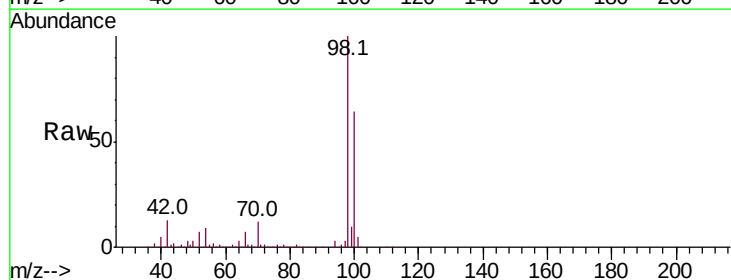
Acq: 16 Oct 2020 15:57

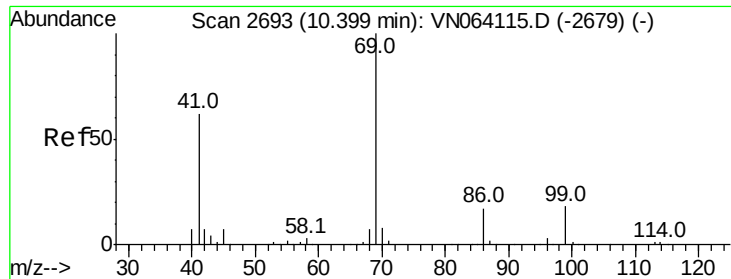
Tgt Ion: 98 Resp: 761482

Ion Ratio Lower Upper

98 100

100 63.3 50.8 76.2





#56

Ethyl methacrylate

Concen: 2.318 ug/l

RT: 10.42 min Scan# 2698

Delta R.T. 0.02 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

PB132401TB

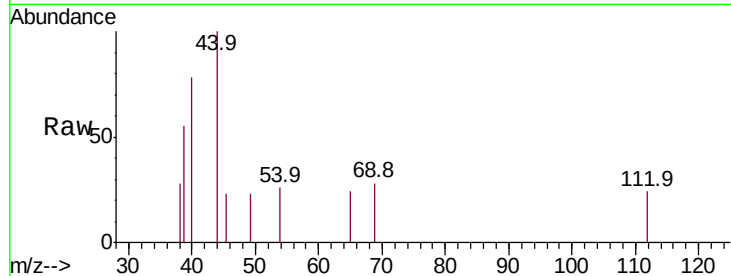
Tot Ion: 69 Resp: 129

Ion Ratio Lower Upper

69 100

41 104.7 49.3 73.9#

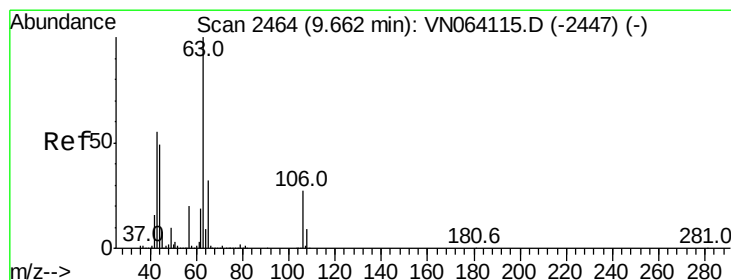
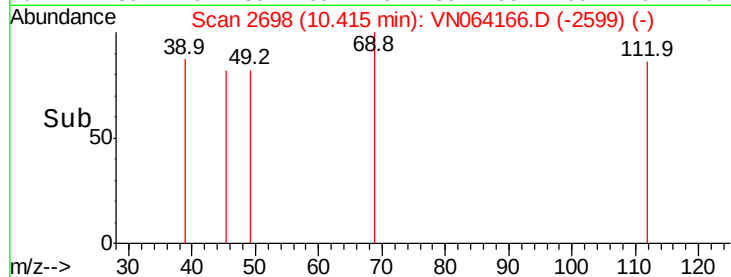
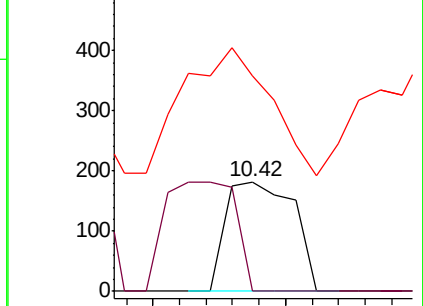
39 148.8 32.7 49.1#



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



#58

2-Chloroethyl Vinyl ether

Concen: 12.241 ug/l

RT: 9.67 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VN064166.D

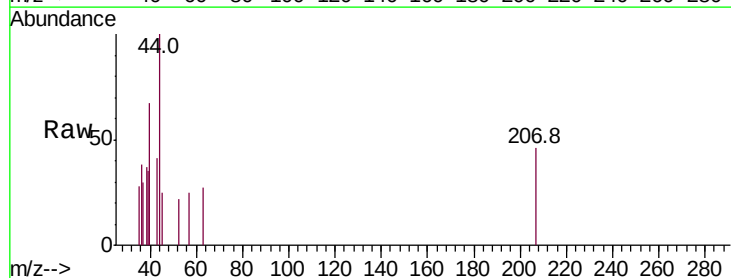
Acq: 16 Oct 2020 15:57

Tgt Ion: 63 Resp: 73

Ion Ratio Lower Upper

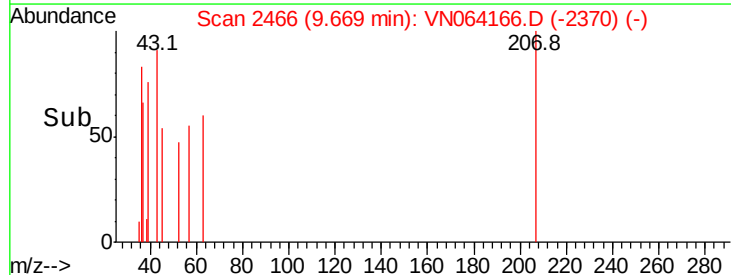
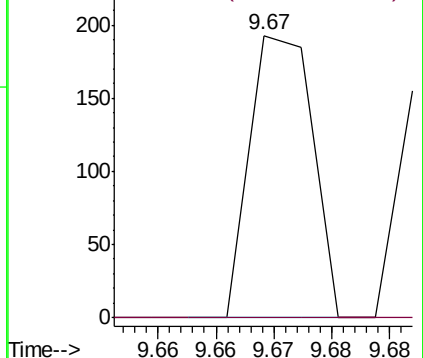
63 100

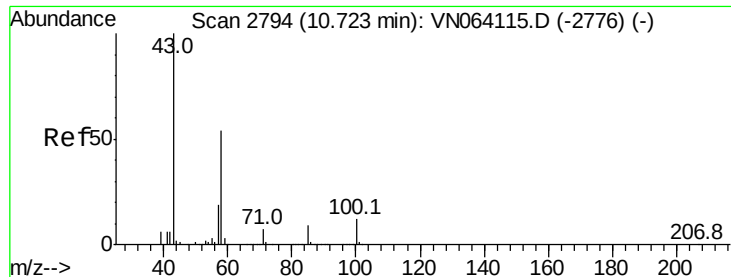
106 0.0 21.8 32.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 6.877 ug/l

RT: 10.85 min Scan# 2832

Delta R.T. 0.12 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

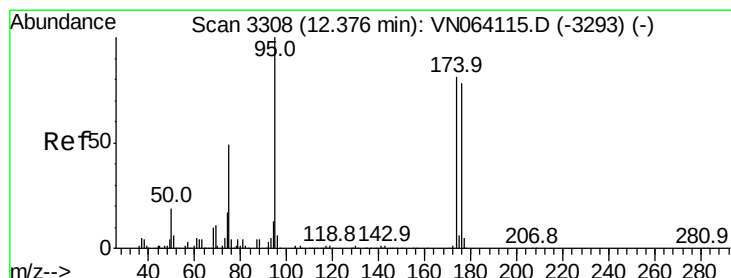
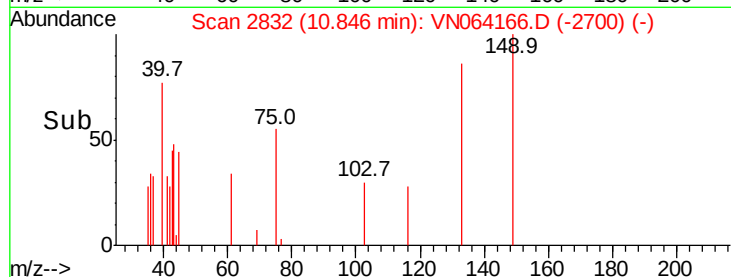
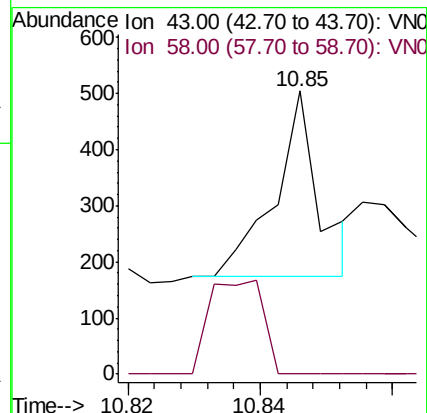
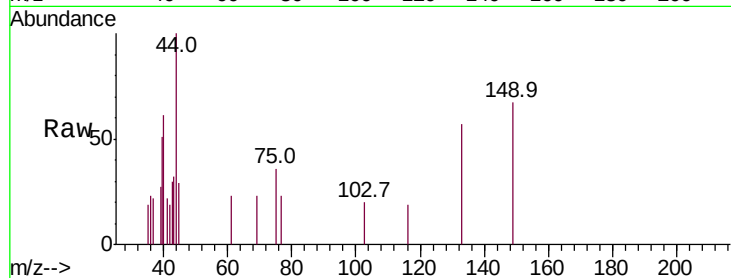
PB132401TB

Tot Ion: 43 Resp: 152

Ion Ratio Lower Upper

43 100

58 61.8 27.2 81.6



#62

4-Bromofluorobenzene

Concen: 49.174 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

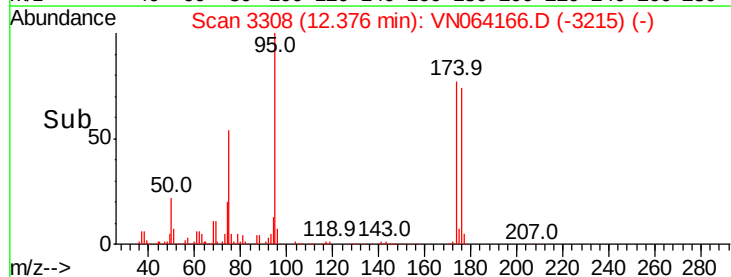
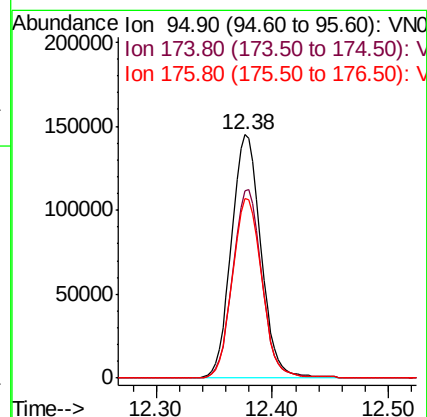
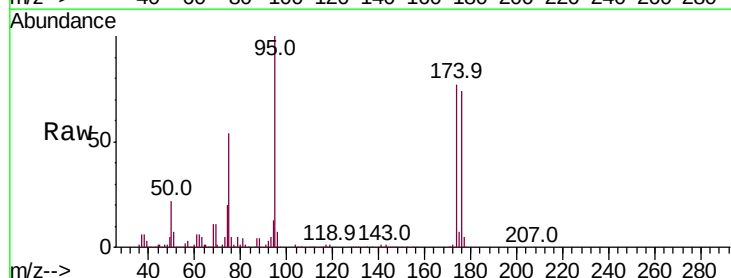
Tgt Ion: 95 Resp: 255473

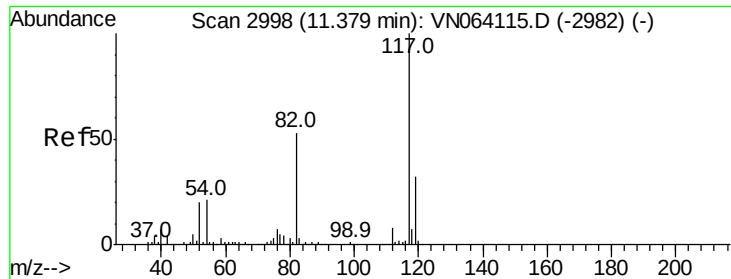
Ion Ratio Lower Upper

95 100

174 76.5 0.0 164.8

176 73.6 0.0 157.8

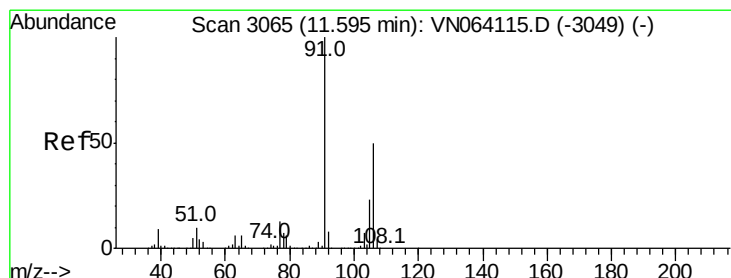
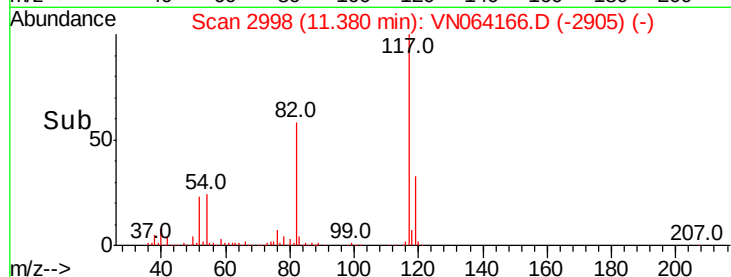
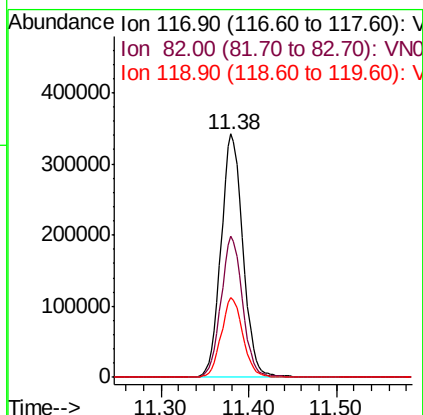
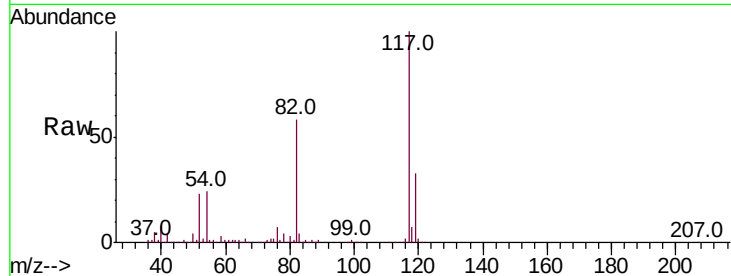




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

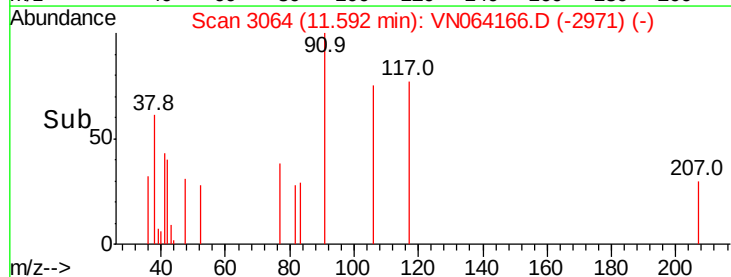
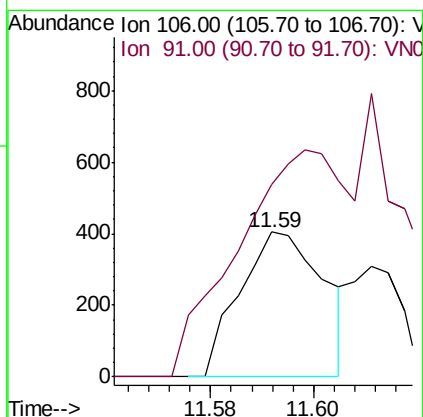
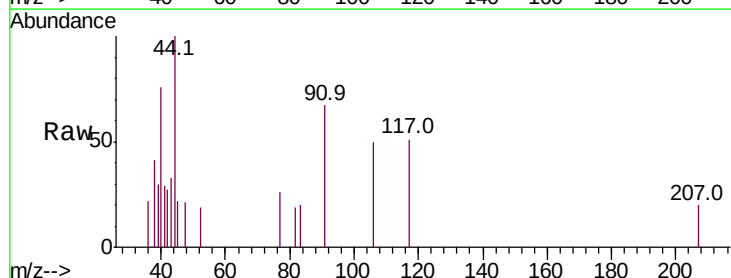
Instrument :
MSVOA_N
ClientSampled :
PB132401TB

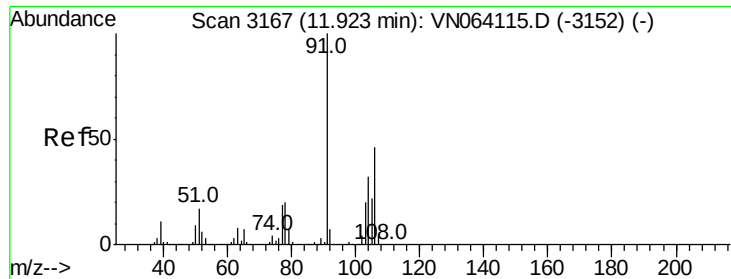
Tot Ion:117 Resp: 596097
Ion Ratio Lower Upper
117 100
82 57.8 42.6 63.8
119 32.7 25.5 38.3



#68
m/p-Xylenes
Concen: 2.243 ug/l
RT: 11.59 min Scan# 3064
Delta R.T. -0.00 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

Tgt Ion:106 Resp: 455
Ion Ratio Lower Upper
106 100
91 208.4 162.1 243.1

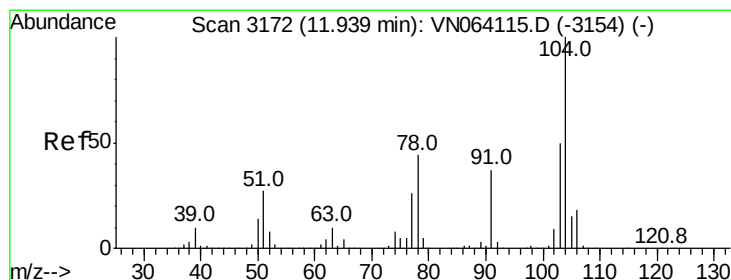
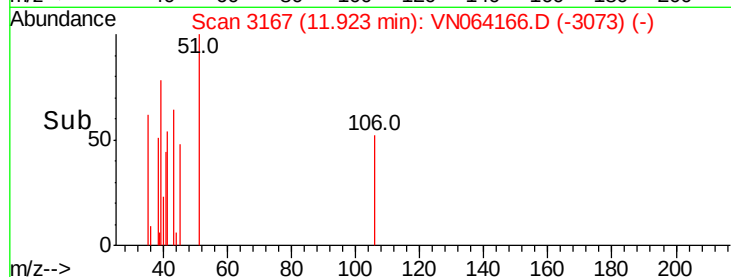
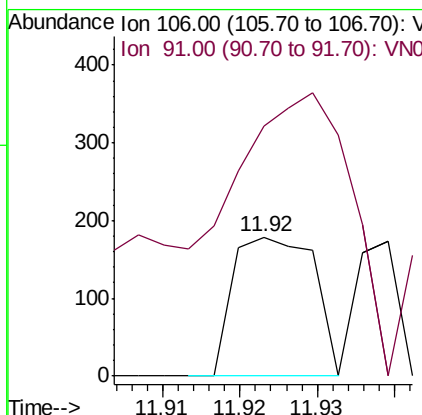
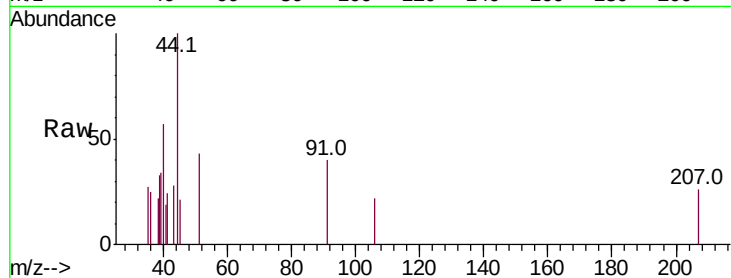




#69
o-Xylene
Concen: 1.598 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

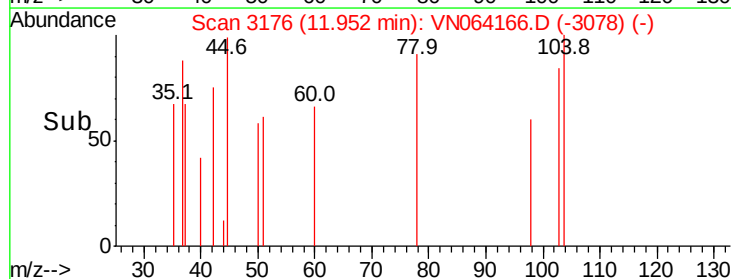
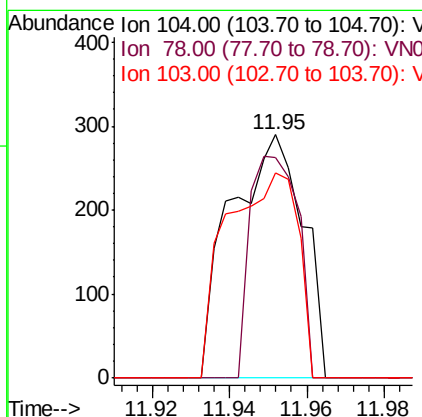
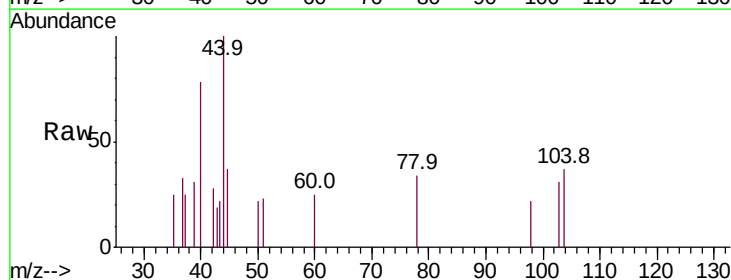
Instrument :
MSVOA_N
ClientSampled :
PB132401TB

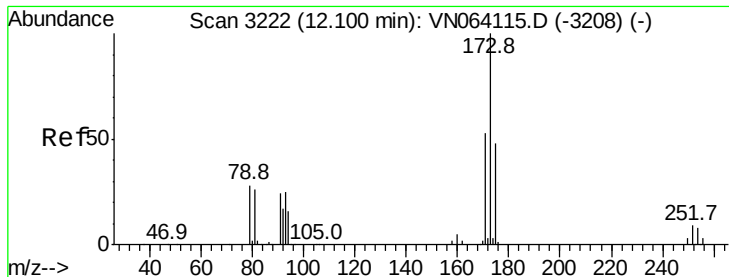
Tot Ion:106 Resp: 130
Ion Ratio Lower Upper
106 100
91 295.4 107.6 322.8



#70
Styrene
Concen: 2.062 ug/l
RT: 11.95 min Scan# 3176
Delta R.T. 0.01 min
Lab File: VN064166.D
Acq: 16 Oct 2020 15:57

Tgt Ion:104 Resp: 376
Ion Ratio Lower Upper
104 100
78 60.6 39.7 59.5#
103 83.2 44.2 66.2#





#71

Bromoform

Concen: 2.280 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

PB132401TB

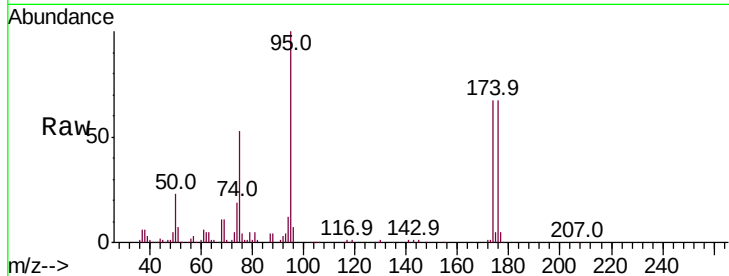
Tot Ion:173 Resp: 203

Ion Ratio Lower Upper

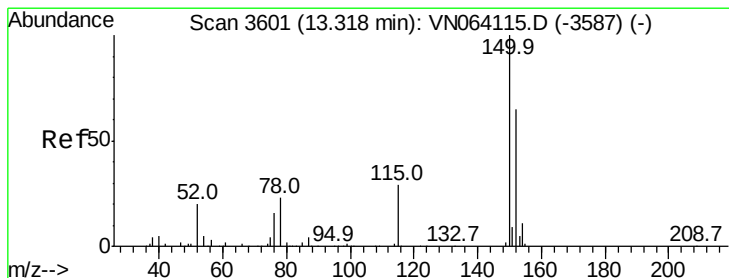
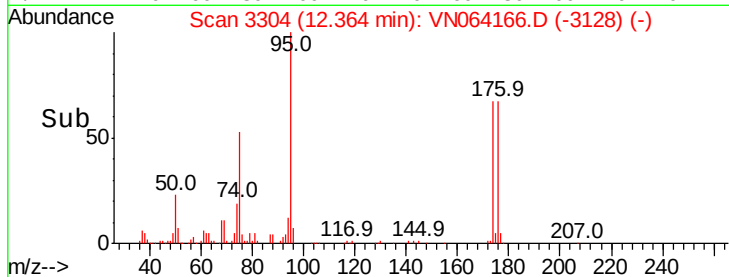
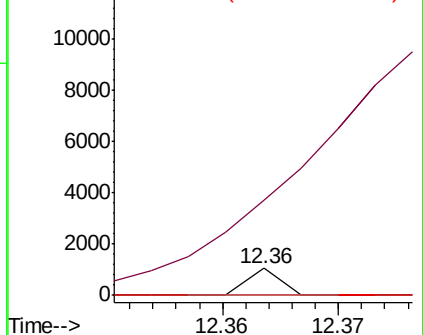
173 100

175 6033.5 23.4 70.2#

254 0.0 0.1 0.1#



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# 3601

Delta R.T. 0.00 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

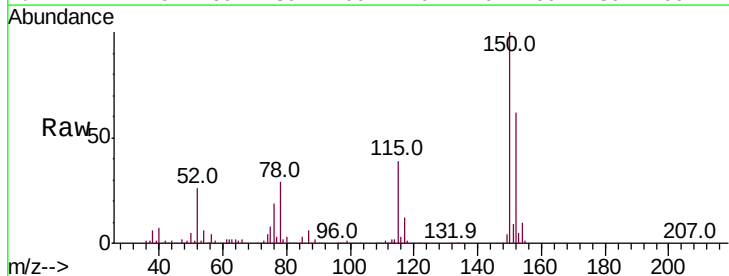
Tgt Ion:152 Resp: 220539

Ion Ratio Lower Upper

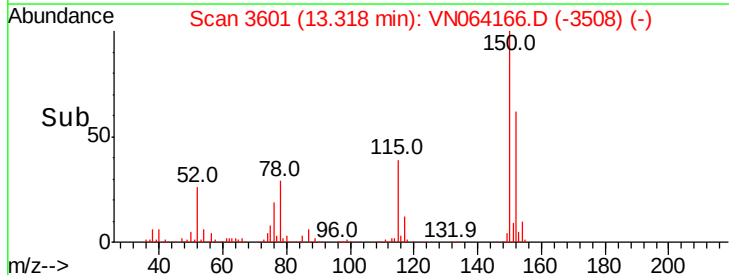
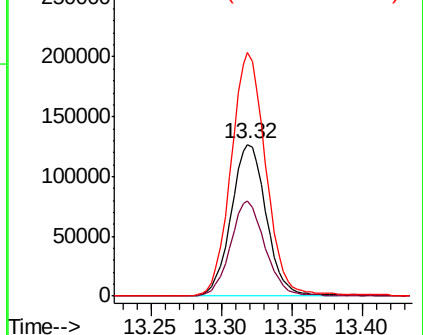
152 100

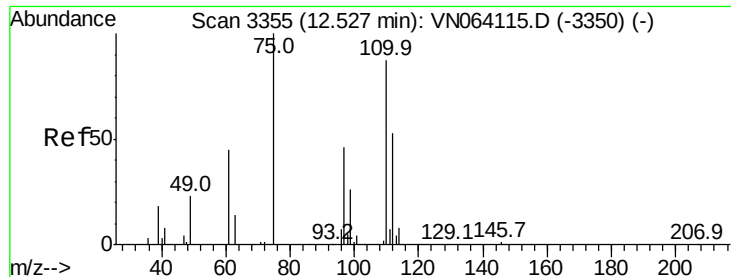
115 61.8 29.3 87.8

150 160.0 0.0 346.0



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





#76

1,2,3-Trichloropropane

Concen: 26.656 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

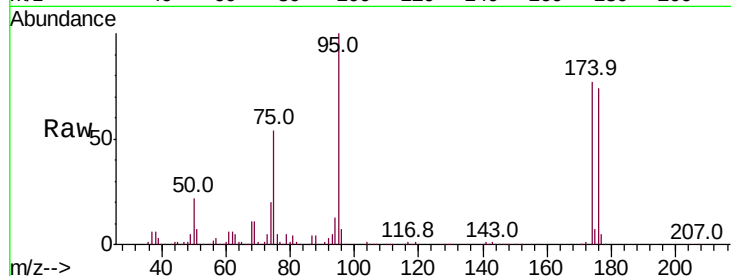
PB132401TB

Tot Ion: 75 Resp: 137915

Ion Ratio Lower Upper

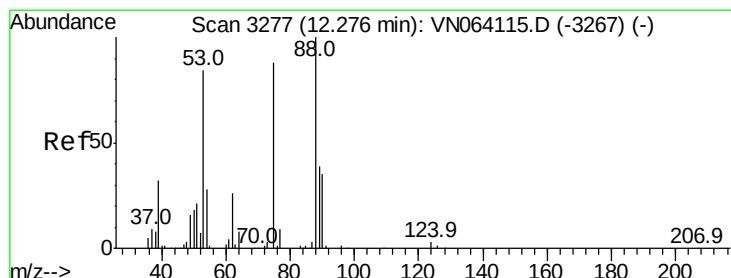
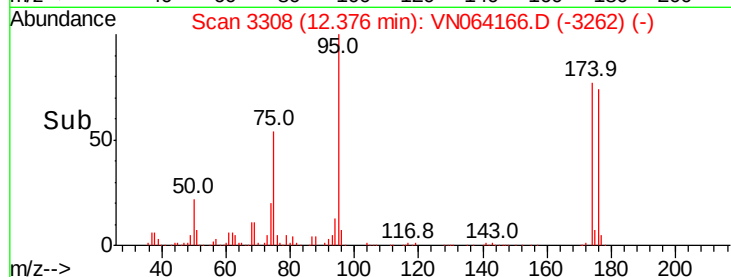
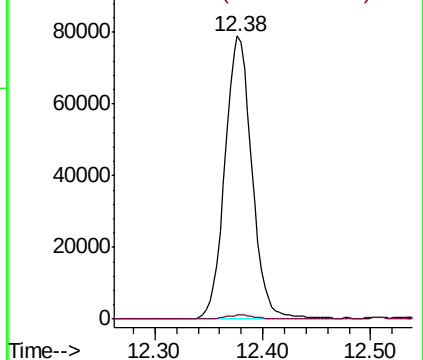
75 100

77 1.6 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: 81.437 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

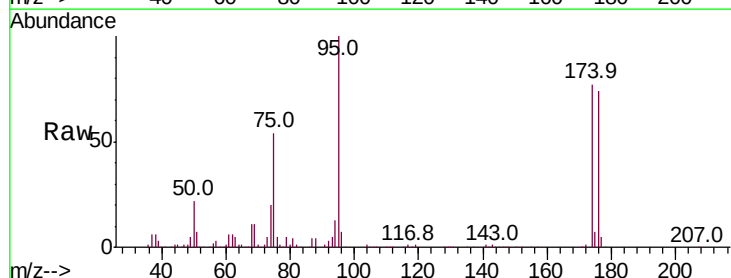
Tgt Ion: 75 Resp: 137915

Ion Ratio Lower Upper

75 100

53 0.3 75.7 113.5#

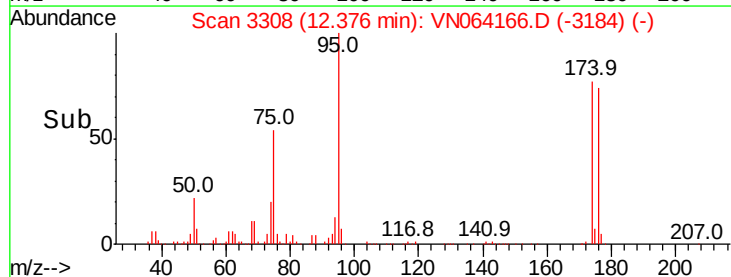
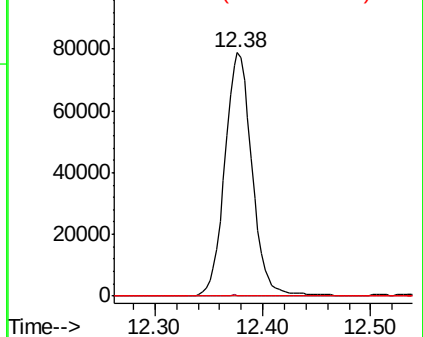
89 0.0 36.6 55.0#

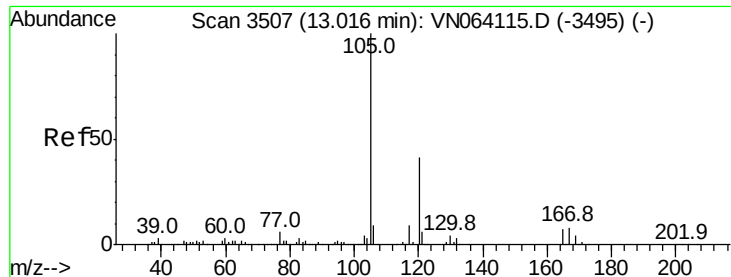


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

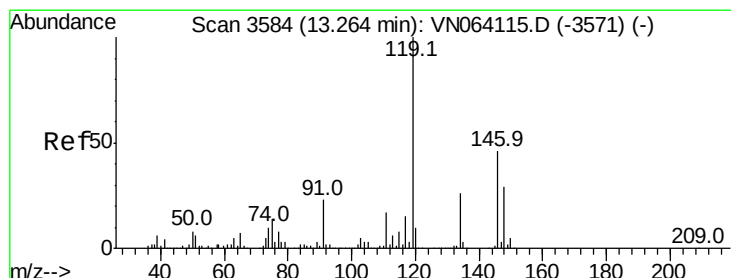
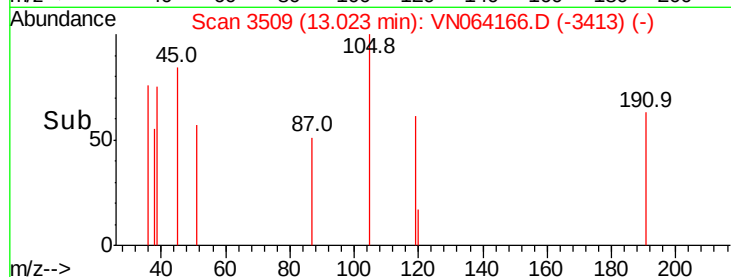
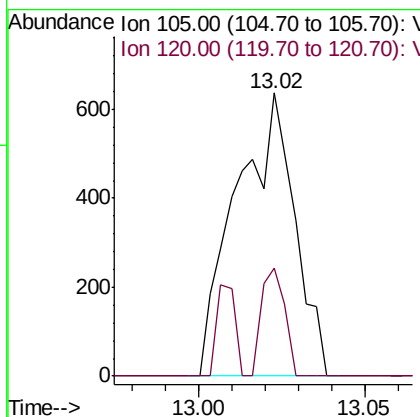
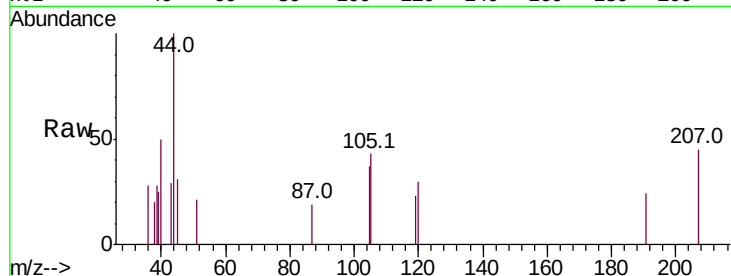




#84
 1,2,4-Trimethylbenzene
 Concen: 0.243 ug/l
 RT: 13.02 min Scan# 3509
 Delta R.T. 0.01 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

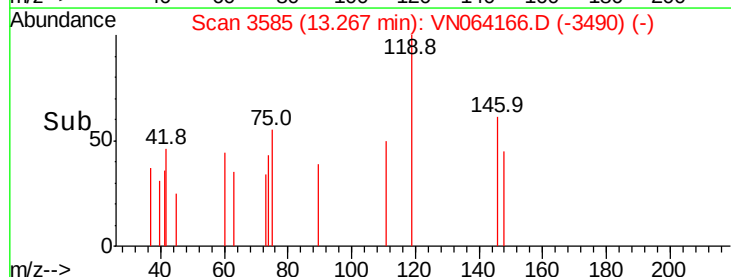
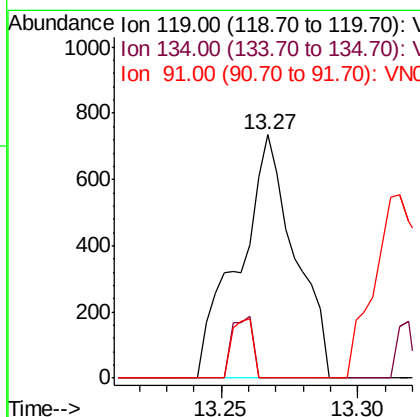
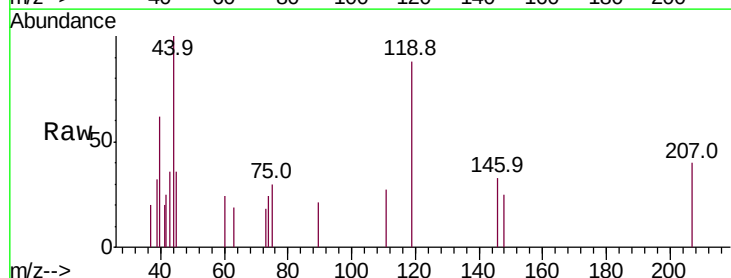
Instrument :
 MSVOA_N
 ClientSampled :
 PB132401TB

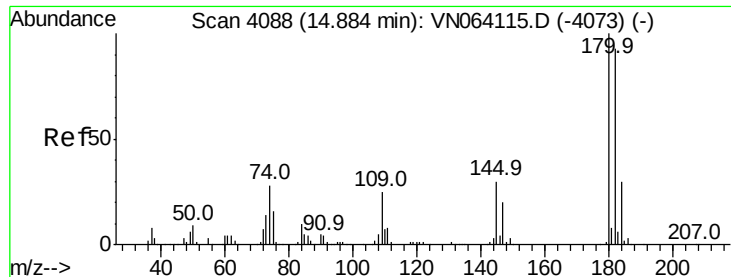
Tot Ion:105 Resp: 782
 Ion Ratio Lower Upper
 105 100
 120 15.2 22.8 68.4#



#86
 p-Isopropyltoluene
 Concen: 0.742 ug/l
 RT: 13.27 min Scan# 3585
 Delta R.T. 0.00 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

Tgt Ion:119 Resp: 1040
 Ion Ratio Lower Upper
 119 100
 134 9.7 13.2 39.5#
 91 9.4 12.0 36.1#

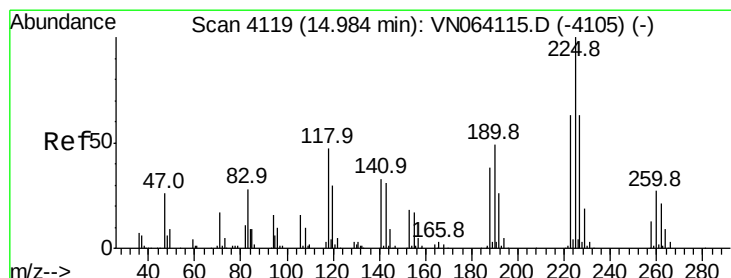
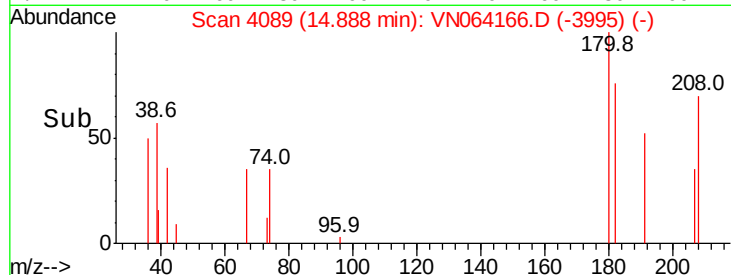
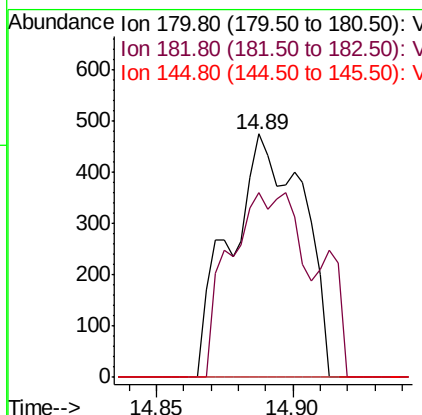
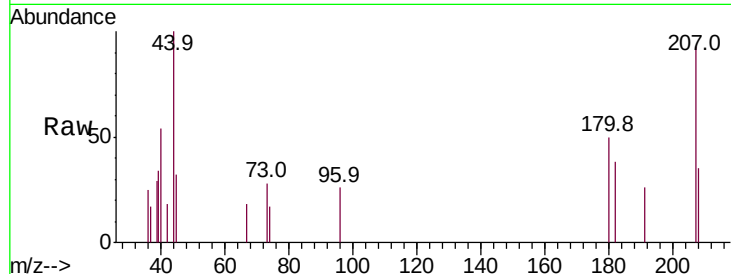




#93
 1,2,4-Trichlorobenzene
 Concen: 3.413 ug/l
 RT: 14.89 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

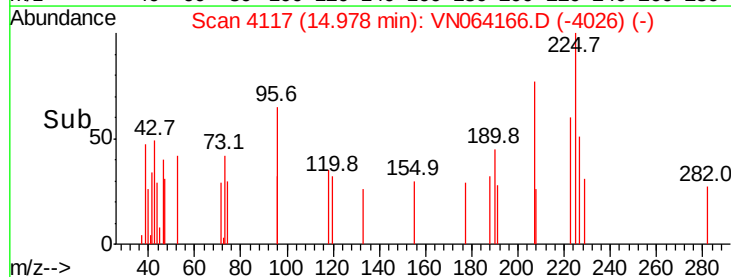
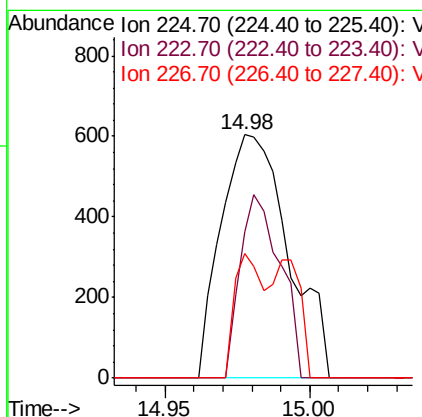
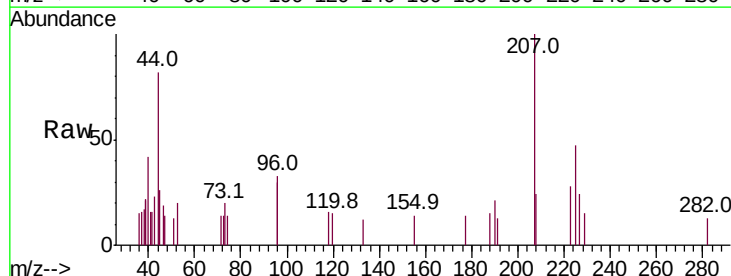
Instrument :
 MSVOA_N
 ClientSampled :
 PB132401TB

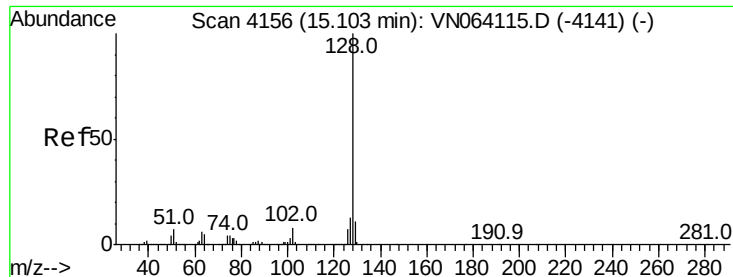
Tot Ion:180 Resp: 877
 Ion Ratio Lower Upper
 180 100
 182 43.3 45.8 137.4#
 145 0.0 15.4 46.1#



#94
 Hexachlorobutadiene
 Concen: 0.571 ug/l
 RT: 14.98 min Scan# 4117
 Delta R.T. -0.01 min
 Lab File: VN064166.D
 Acq: 16 Oct 2020 15:57

Tgt Ion:225 Resp: 978
 Ion Ratio Lower Upper
 225 100
 223 44.7 32.3 96.9
 227 20.8 31.6 94.8#





#95

Naphthalene

Concen: 4.026 ug/l

RT: 15.12 min Scan# 4161

Delta R.T. 0.02 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampled :

PB132401TB

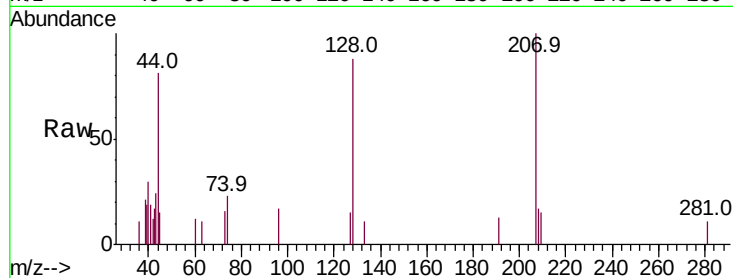
Tot Ion:128 Resp: 2667

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

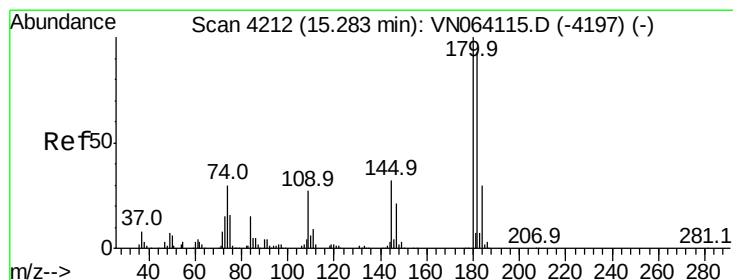
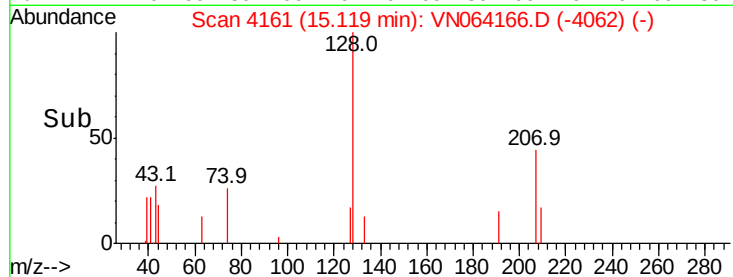
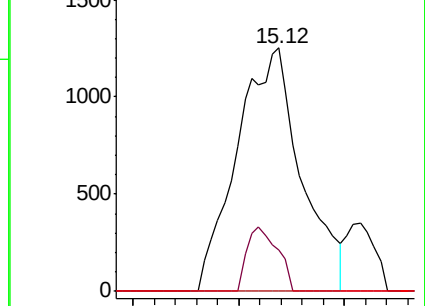
129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.005 ug/l

RT: 15.29 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN064166.D

Acq: 16 Oct 2020 15:57

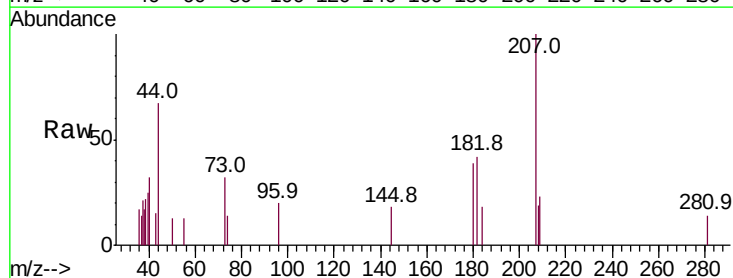
Tgt Ion:180 Resp: 725

Ion Ratio Lower Upper

180 100

182 122.9 46.6 139.8

145 48.1 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

