

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058297.D
 Acq On : 23 Sep 2019 16:58
 Operator : JC/SP
 Sample : K4975-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:34:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	493821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	808299	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	697491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	281505	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	369373	53.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.40%	
35) Dibromofluoromethane	7.58	113	253020	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	
50) Toluene-d8	10.09	98	1020757	53.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.64%	
62) 4-Bromofluorobenzene	12.41	95	324799	45.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.34%	

Target Compounds

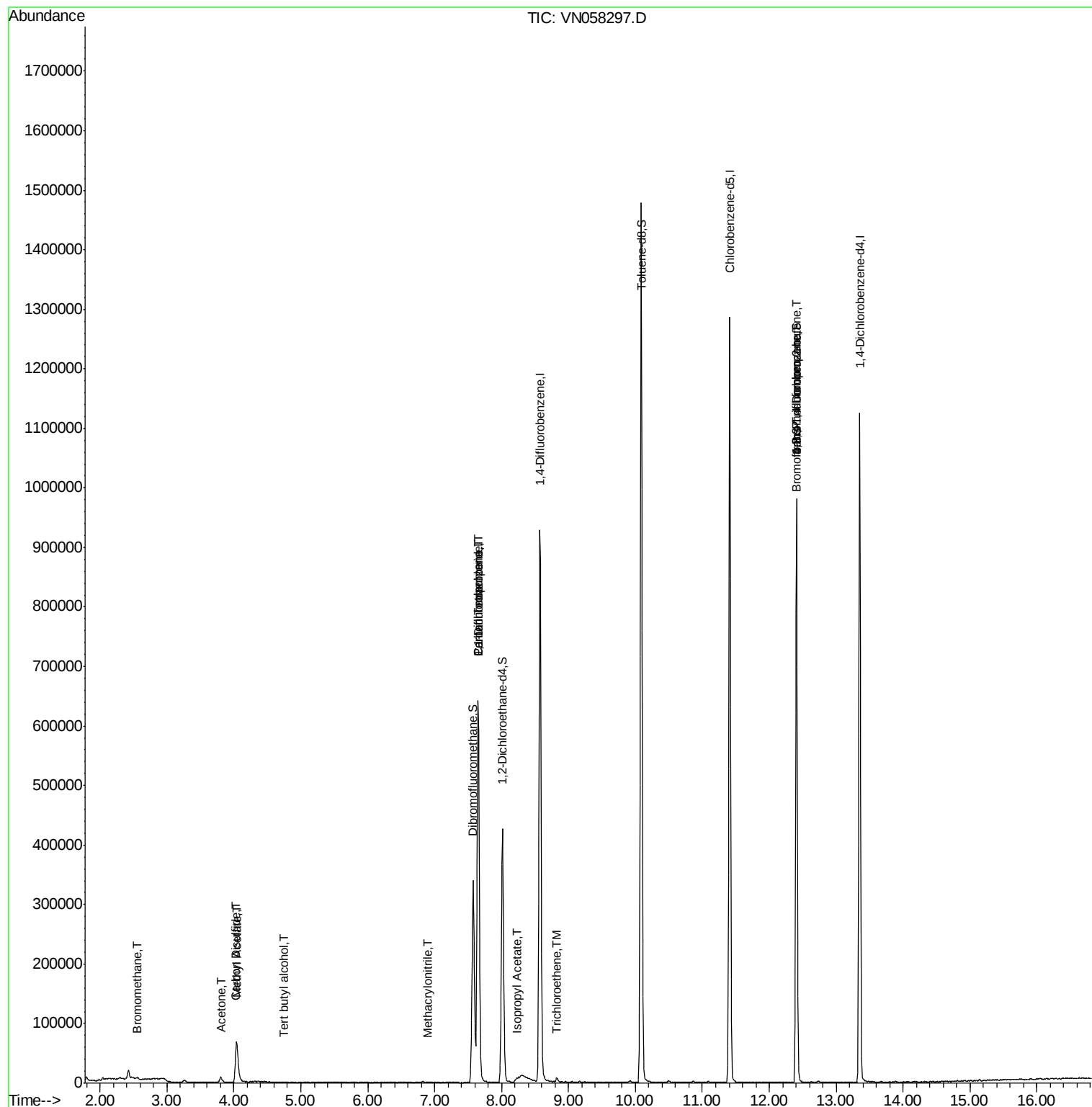
					Qvalue	
3) Chloromethane	2.04	50	1769	Below Cal	#	52
5) Bromomethane	2.55	94	456	0.971	ug/l #	79
6) Chloroethane	2.66	64	61	Below Cal	#	44
11) Tert butyl alcohol	4.74	59	237	0.290	ug/l #	71
12) 1,1-Dichloroethene	3.79	96	64	Below Cal	#	1
16) Acetone	3.81	43	14890	6.378	ug/l	94
17) Carbon Disulfide	4.02	76	157	0.307	ug/l #	74
18) Methyl Acetate	4.04	43	29797	4.850	ug/l #	53
20) Methylene Chloride	4.52	84	306	Below Cal	#	74
31) Cyclohexane	7.65	56	12772	Below Cal	#	30
36) 1,1-Dichloropropene	7.65	75	42743	7.333	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51337	8.761	ug/l #	15
41) Methacrylonitrile	6.90	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.23	43	5660	0.501	ug/l #	57
44) Trichloroethene	8.82	130	1829	0.420	ug/l	93
71) Bromoform	12.39	173	387	3.704	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	179362	35.601	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	179362	99.490	ug/l #	5

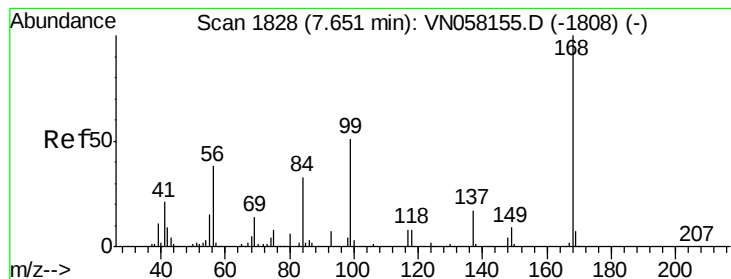
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

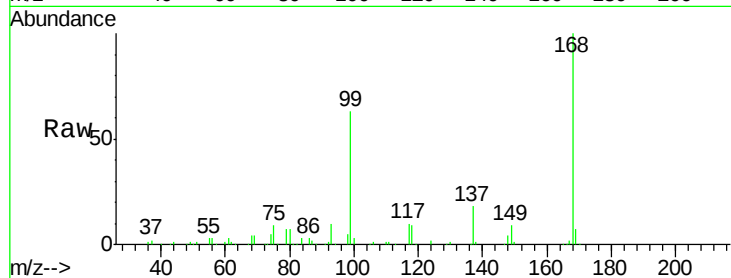
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 493821

Ion Ratio Lower Upper

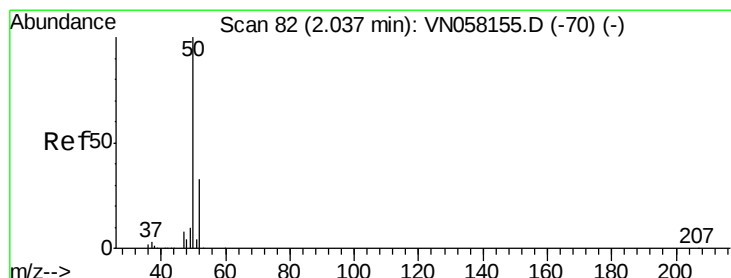
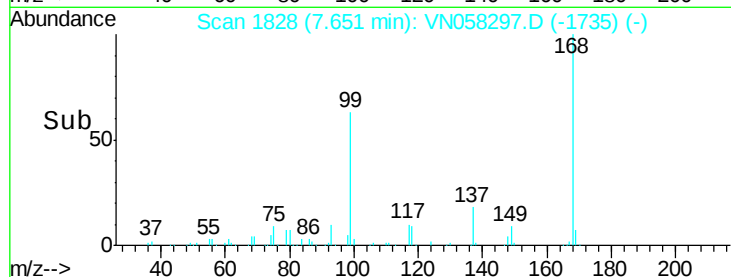
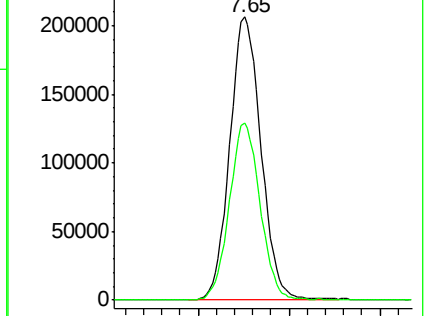
168 100

99 62.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058297.D

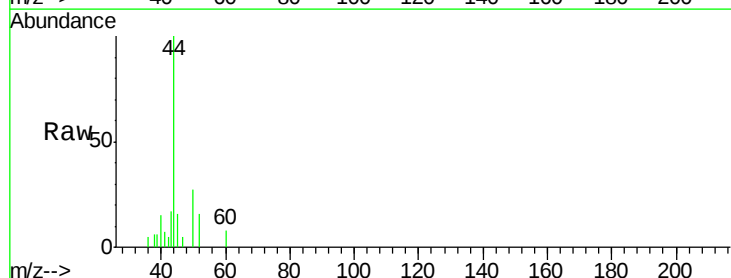
Acq: 23 Sep 2019 16:58

Tgt Ion: 50 Resp: 1769

Ion Ratio Lower Upper

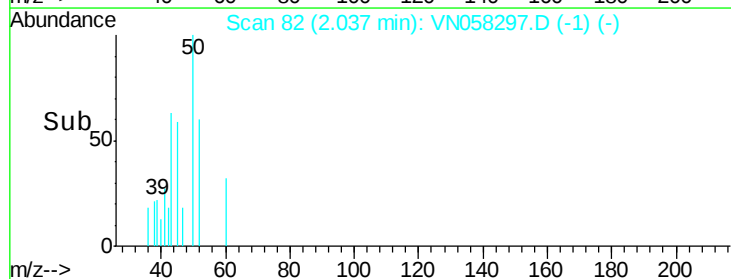
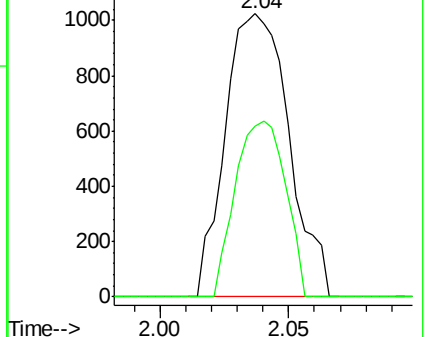
50 100

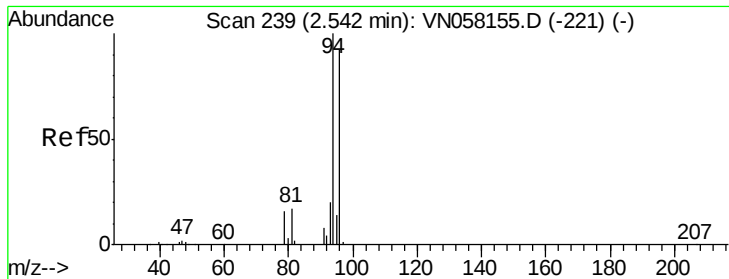
52 60.3 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.971 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :

MSVOA_N

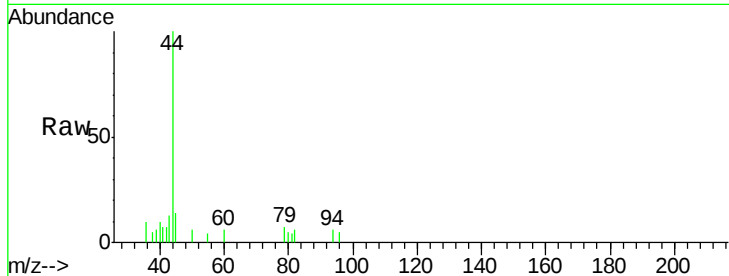
ClientSampled :

Tot Ion: 94 Resp: 456

Ion Ratio Lower Upper

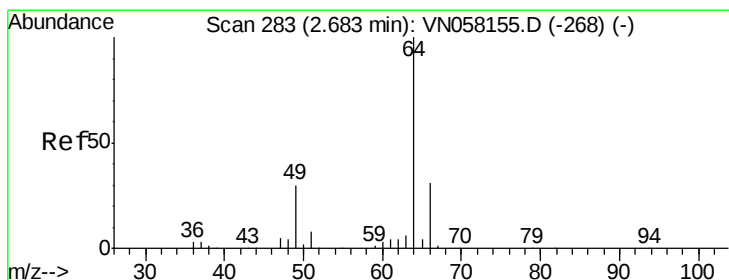
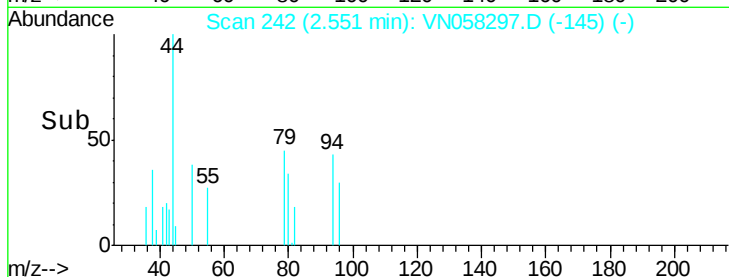
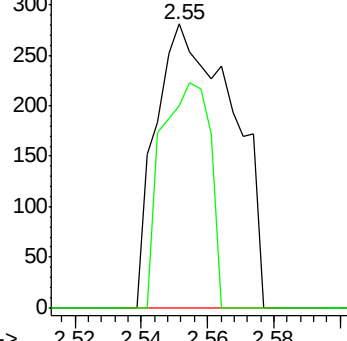
94 100

96 71.2 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: Below Cal

RT: 2.66 min Scan# 277

Delta R.T. -0.02 min

Lab File: VN058297.D

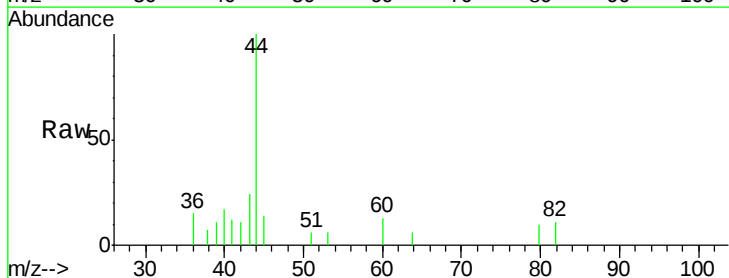
Acq: 23 Sep 2019 16:58

Tgt Ion: 64 Resp: 61

Ion Ratio Lower Upper

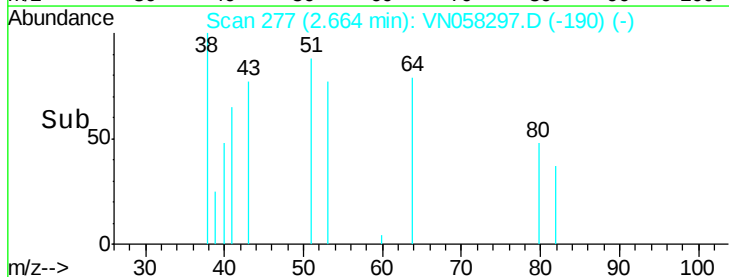
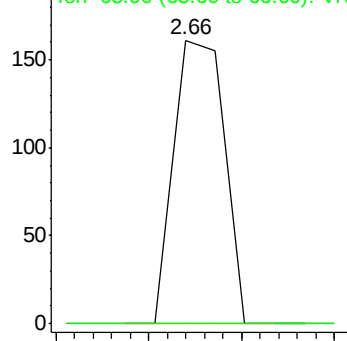
64 100

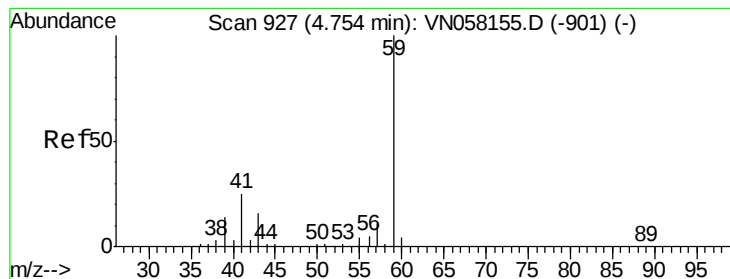
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



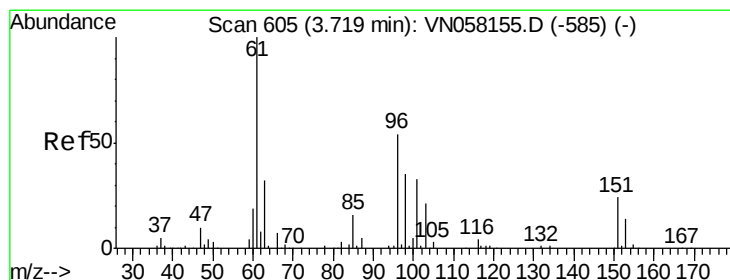
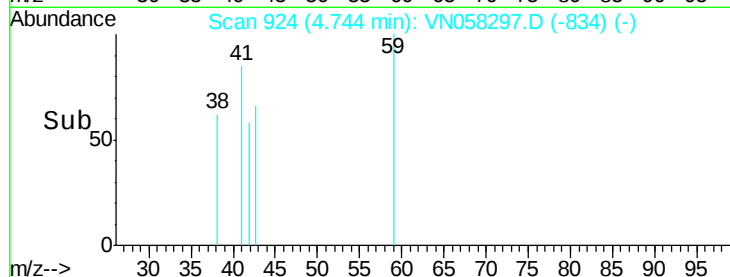
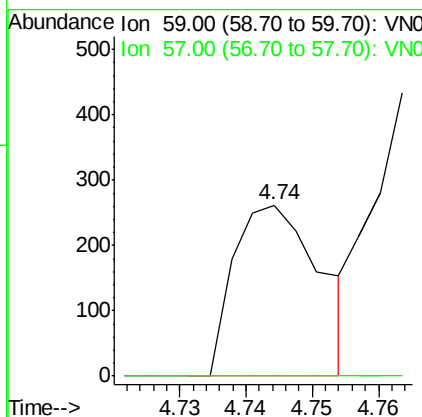
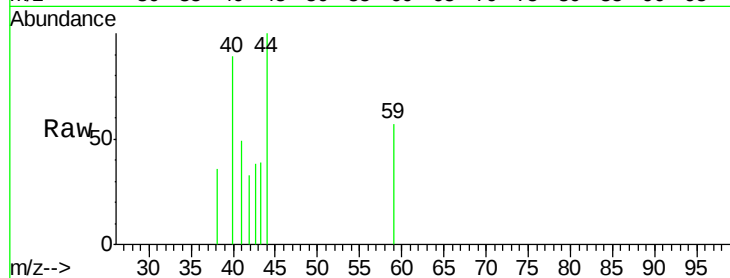


#11

Tert butyl alcohol
 Concen: 0.290 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. -0.01 min
 Lab File: VN058297.D
 Acq: 23 Sep 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :

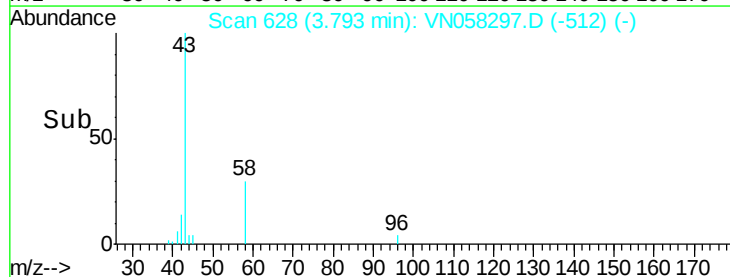
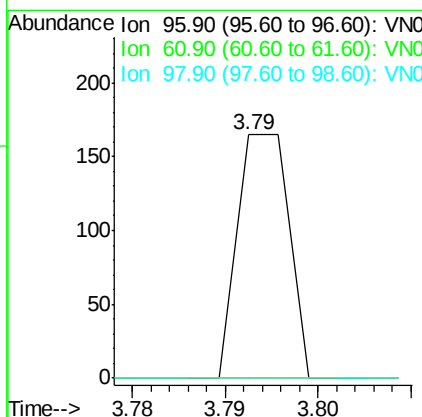
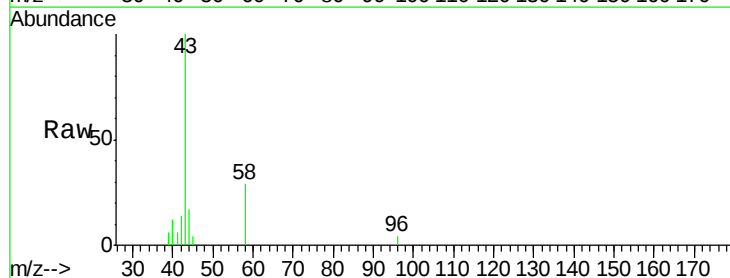
Tot Ion: 59 Resp: 237
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

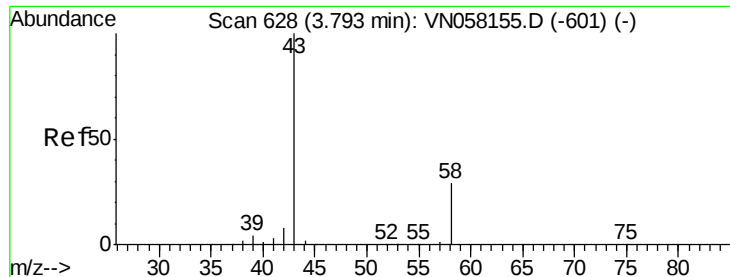


#12

1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.79 min Scan# 628
 Delta R.T. 0.07 min
 Lab File: VN058297.D
 Acq: 23 Sep 2019 16:58

Tgt Ion: 96 Resp: 64
 Ion Ratio Lower Upper
 96 100
 61 0.0 149.5 224.3#
 98 0.0 52.4 78.6#





#16

Acetone

Concen: 6.378 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :

MSVOA_N

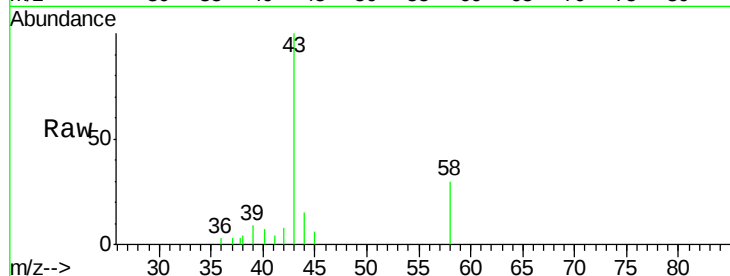
ClientSampled :

Tot Ion: 43 Resp: 14890

Ion Ratio Lower Upper

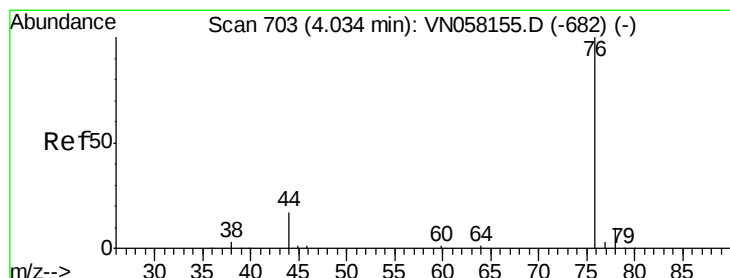
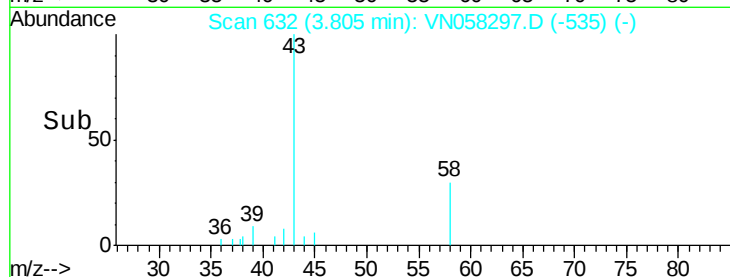
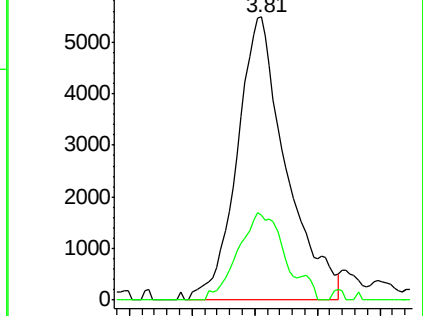
43 100

58 32.7 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.307 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058297.D

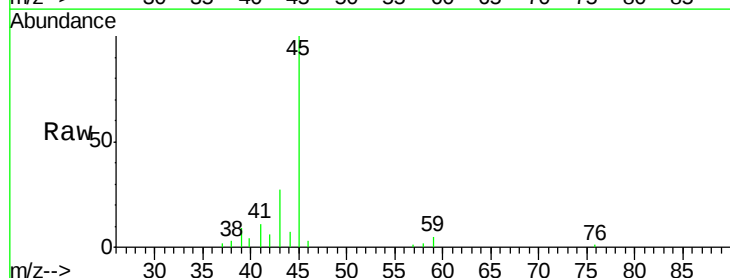
Acq: 23 Sep 2019 16:58

Tgt Ion: 76 Resp: 157

Ion Ratio Lower Upper

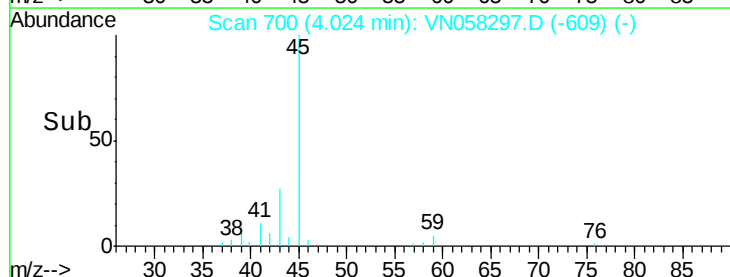
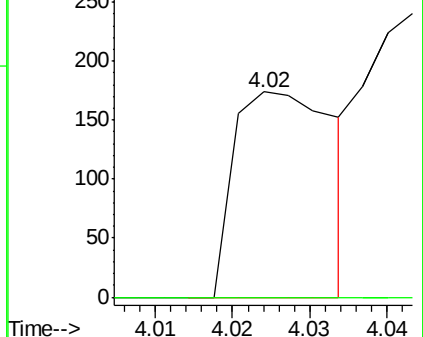
76 100

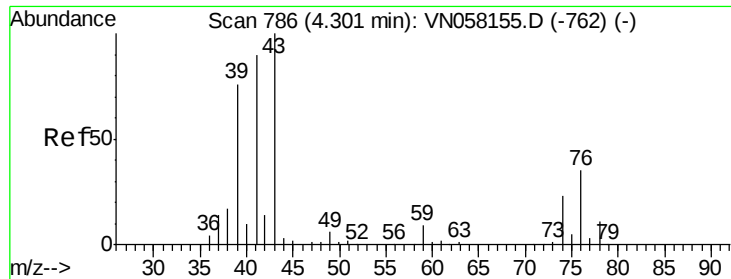
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

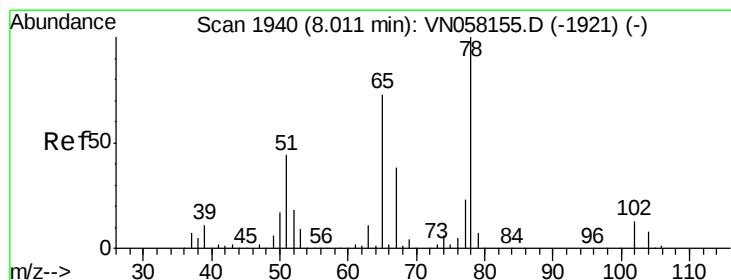
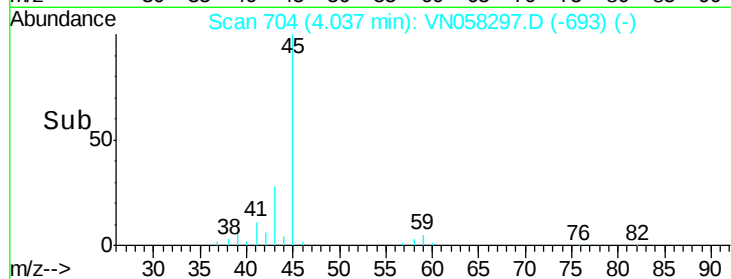
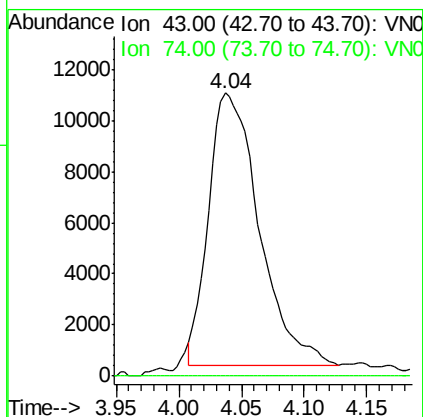
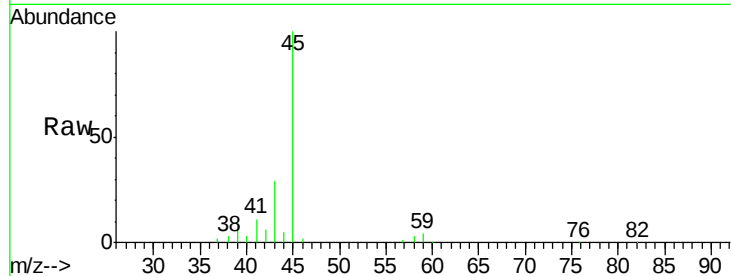




#18
Methvl Acetate
Concen: 4.850 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.26 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

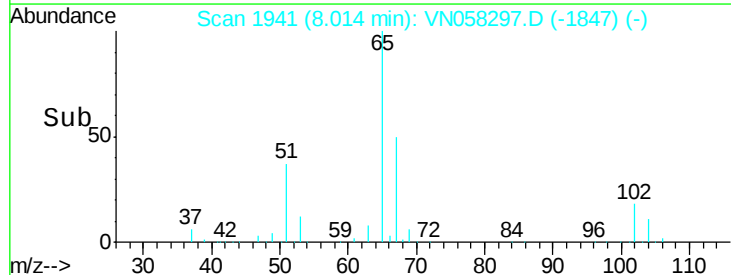
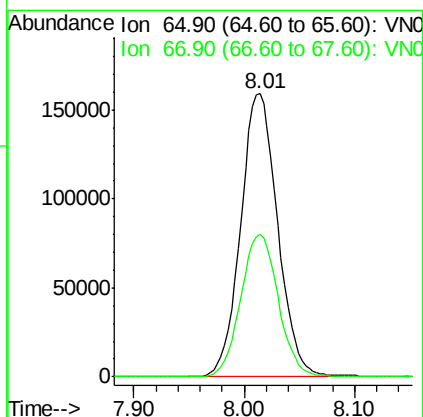
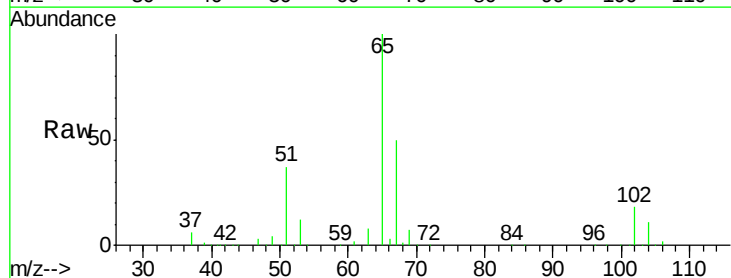
Instrument :
MSVOA_N
ClientSampled :

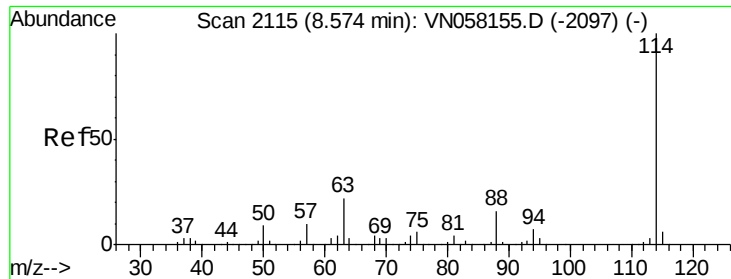
Tot Ion: 43 Resp: 29797
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#33
1,2-Dichloroethane-d4
Concen: 53.704 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

Tgt Ion: 65 Resp: 369373
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :
MSVOA_N
ClientSampled :

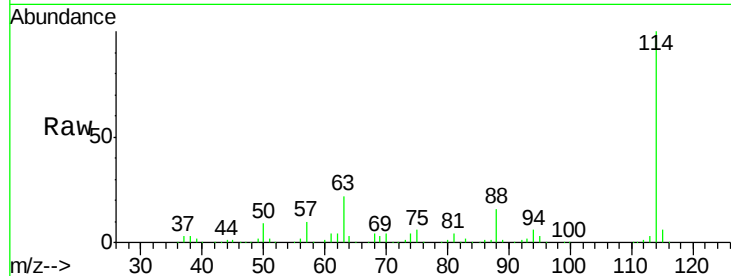
Tot Ion:114 Resp: 808299

Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.2

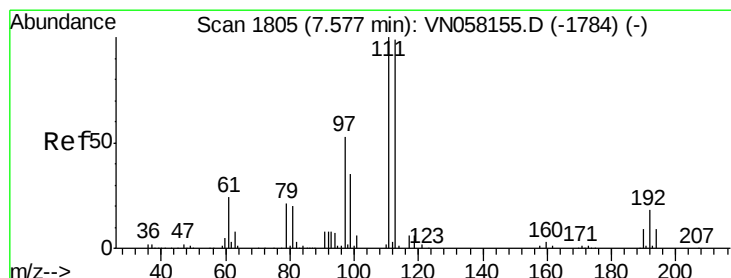
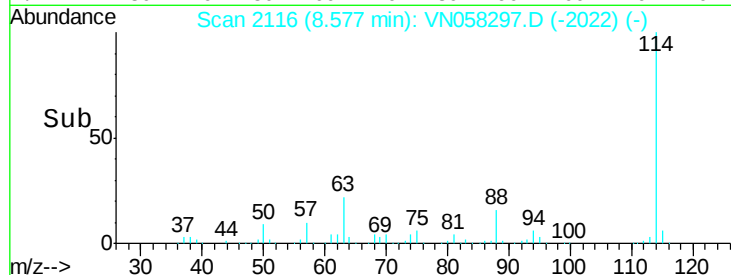
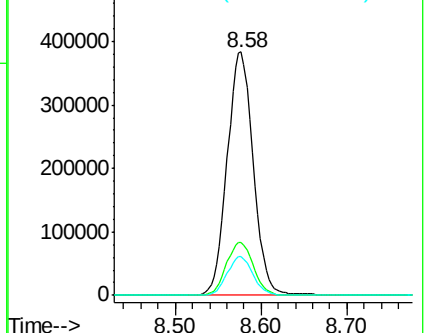
88 15.7 0.0 31.6



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: 51.492 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

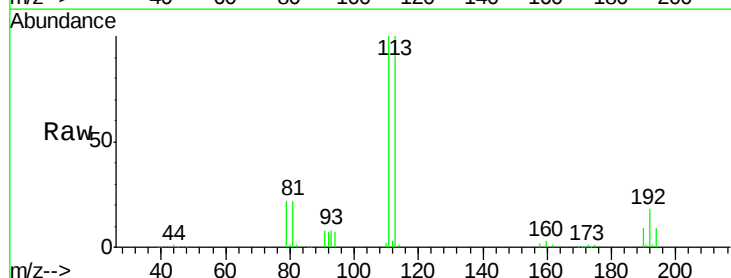
Tgt Ion:113 Resp: 253020

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.6

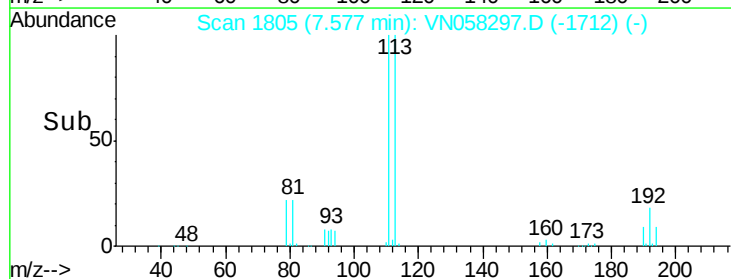
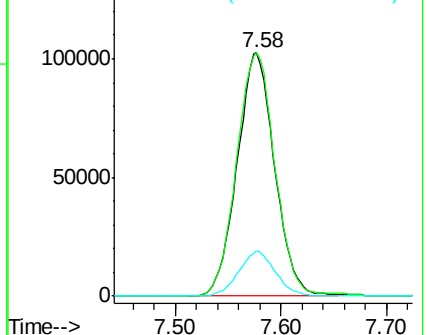
192 17.9 14.5 21.7

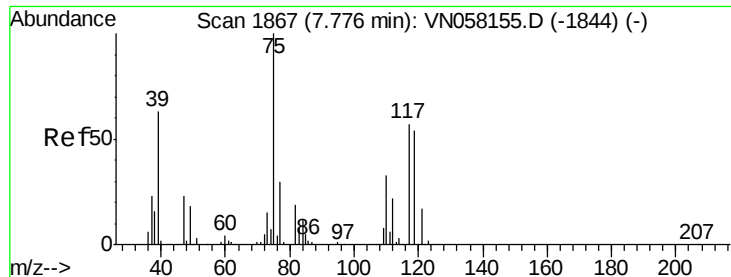


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.333 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :

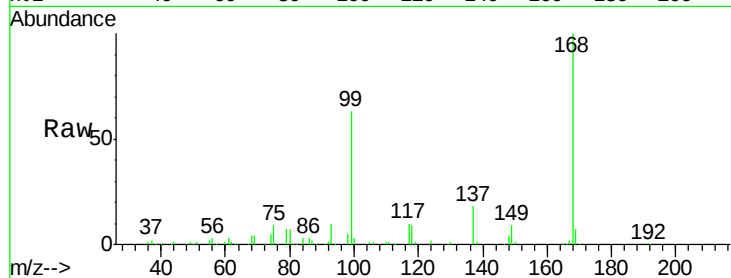
Tot Ion: 75 Resp: 42743

Ion Ratio Lower Upper

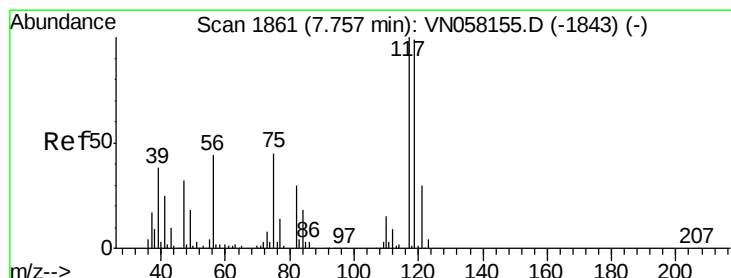
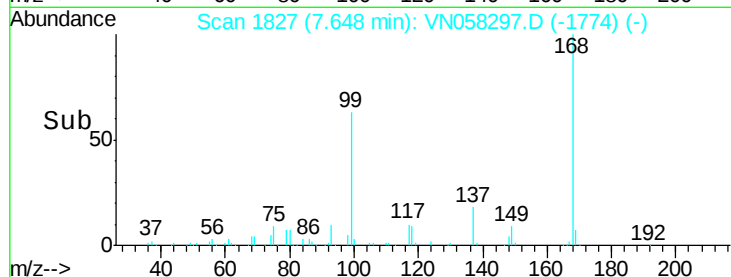
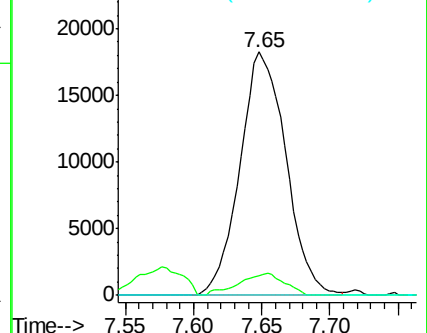
75 100

110 9.0 16.6 49.7#

77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 8.761 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

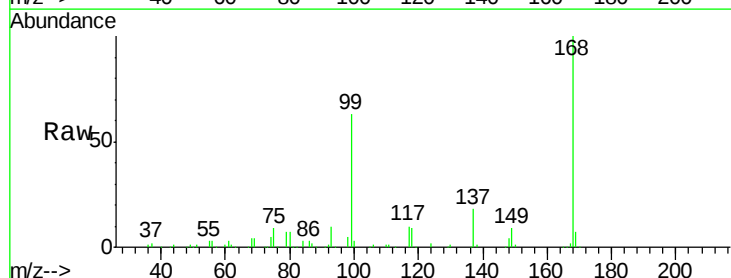
Tgt Ion: 117 Resp: 51337

Ion Ratio Lower Upper

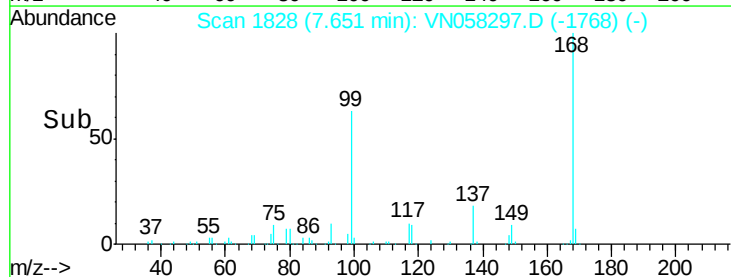
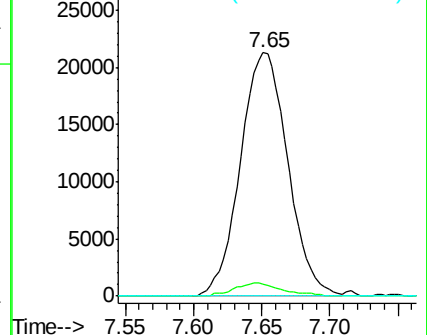
117 100

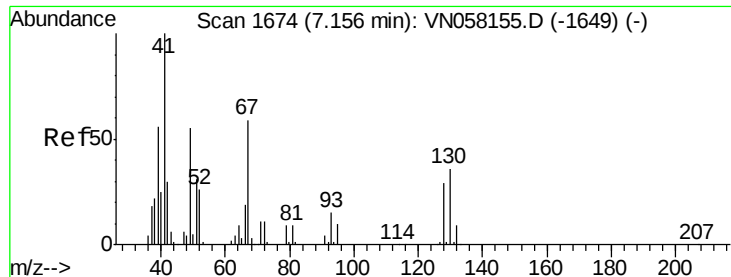
119 4.8 78.6 117.8#

121 0.0 24.1 36.1#



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

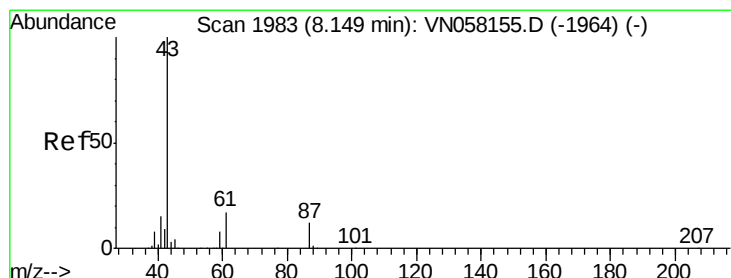
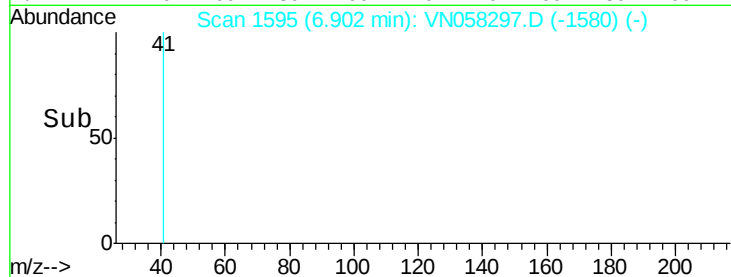
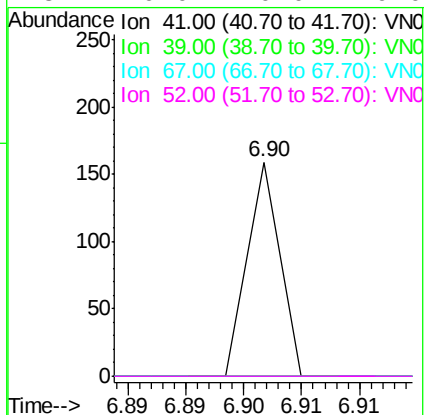
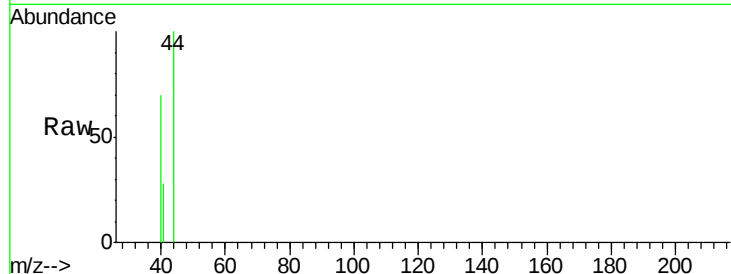




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.25 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

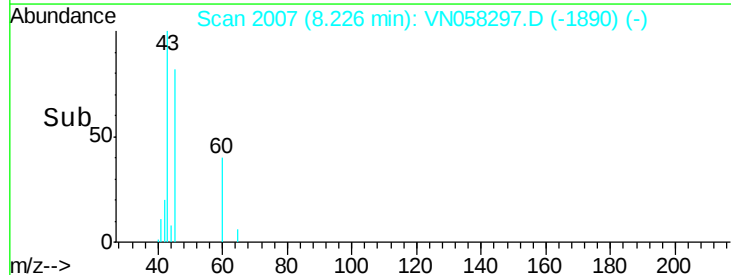
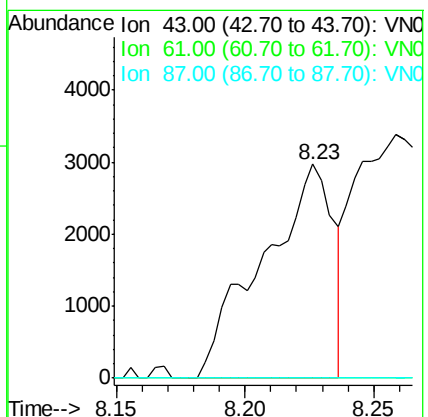
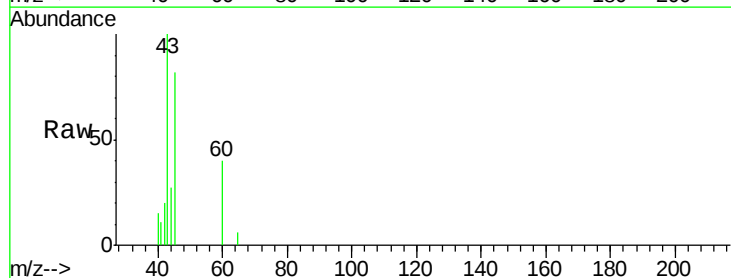
Instrument :
MSVOA_N
ClientSampled :

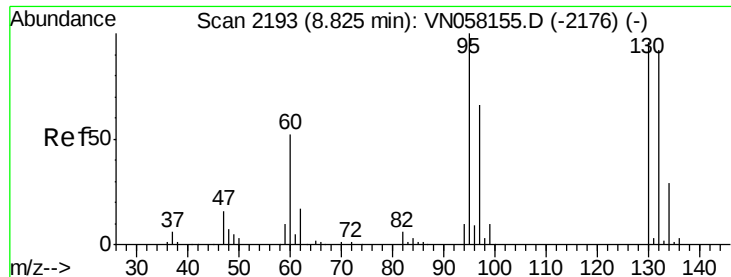
Tot Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.501 ug/l
RT: 8.23 min Scan# 2007
Delta R.T. 0.08 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

Tgt Ion:	43	Resp:	5660
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 0.420 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :

MSVOA_N

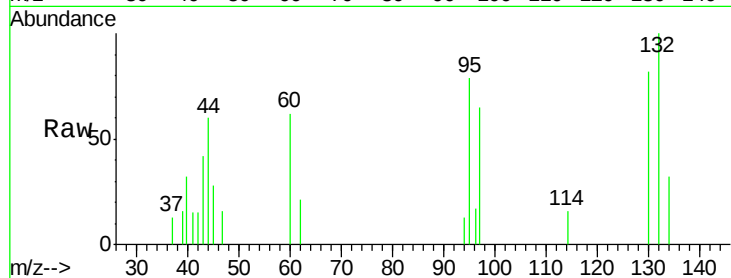
ClientSampled :

Tot Ion:130 Resp: 1829

Ion Ratio Lower Upper

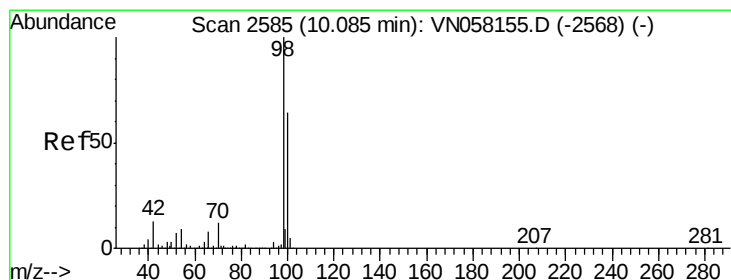
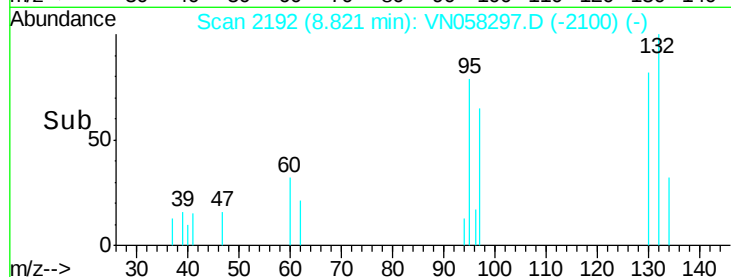
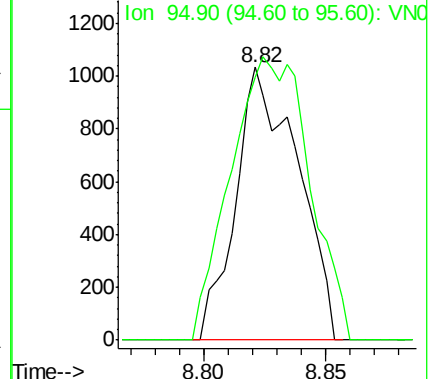
130 100

95 96.4 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 53.317 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058297.D

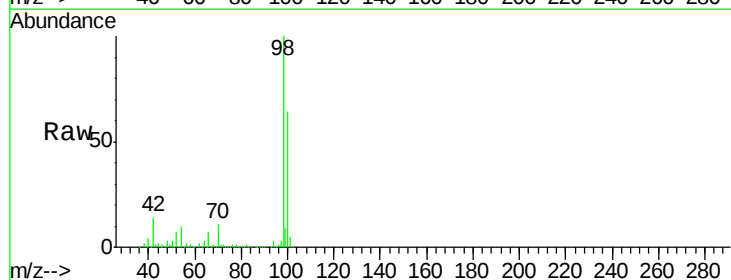
Acq: 23 Sep 2019 16:58

Tgt Ion: 98 Resp: 1020757

Ion Ratio Lower Upper

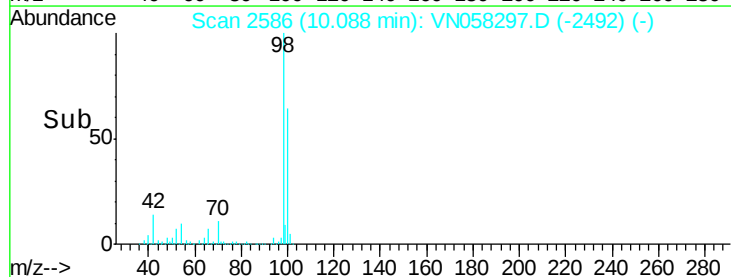
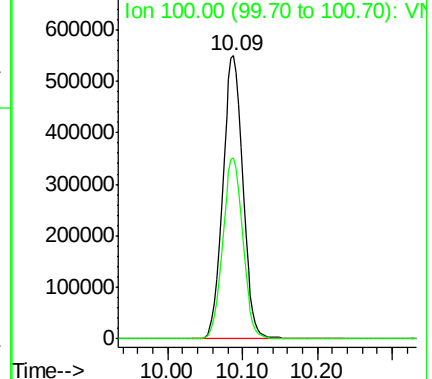
98 100

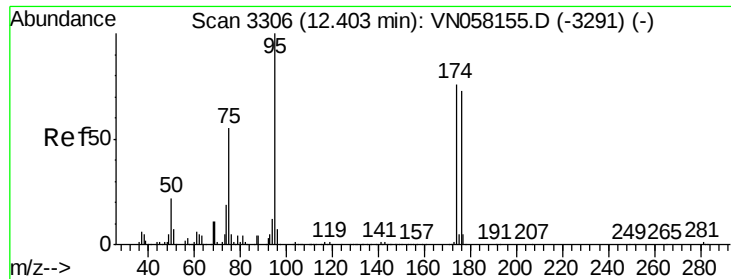
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.671 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :

MSVOA_N

ClientSampled :

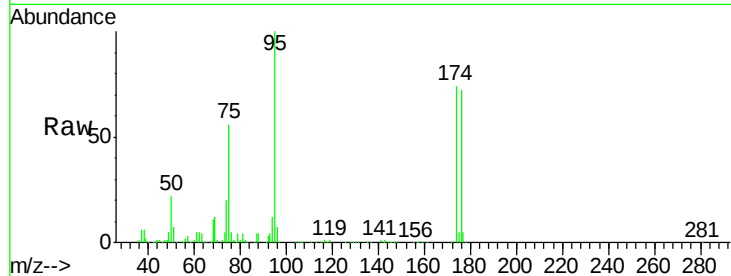
Tot Ion: 95 Resp: 324799

Ion Ratio Lower Upper

95 100

174 74.8 0.0 152.2

176 72.3 0.0 148.0

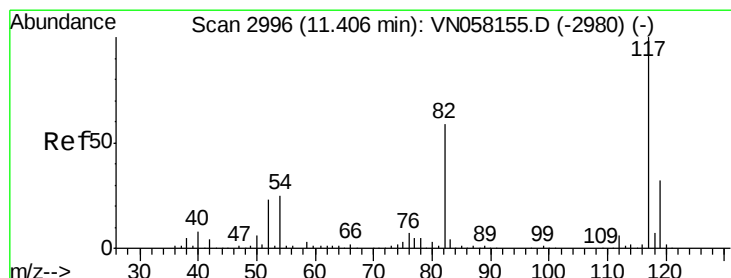
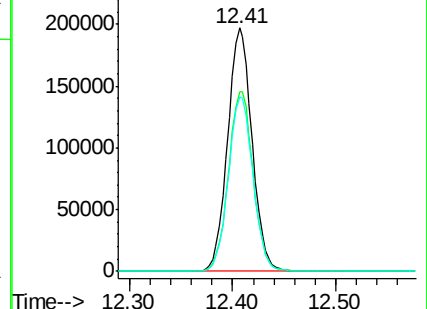
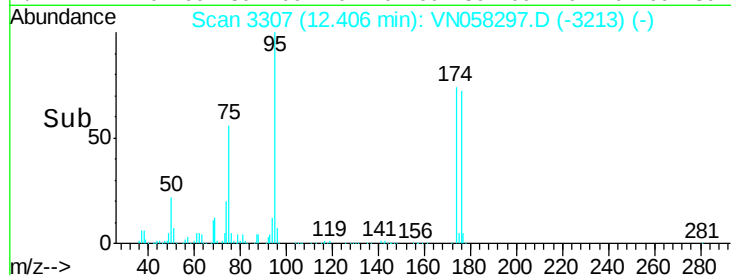


Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

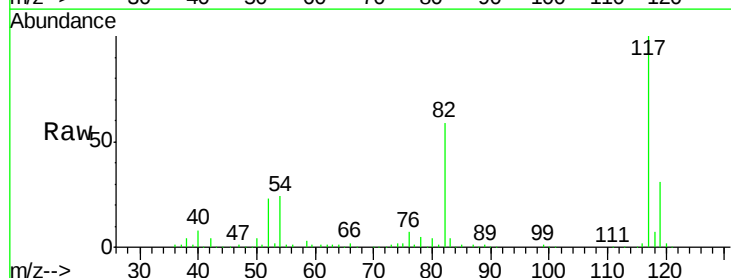
Tgt Ion: 117 Resp: 697491

Ion Ratio Lower Upper

117 100

82 59.1 46.9 70.3

119 31.2 25.3 37.9

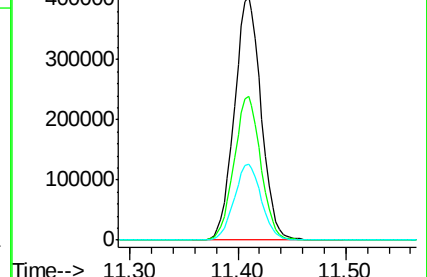
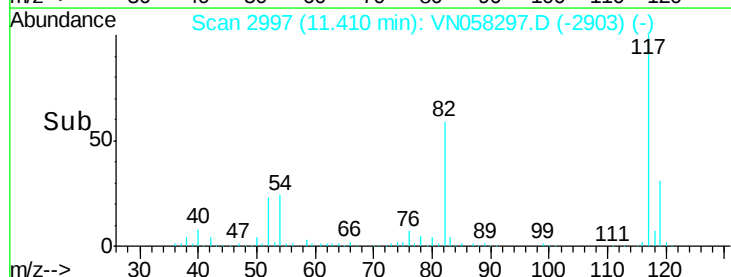


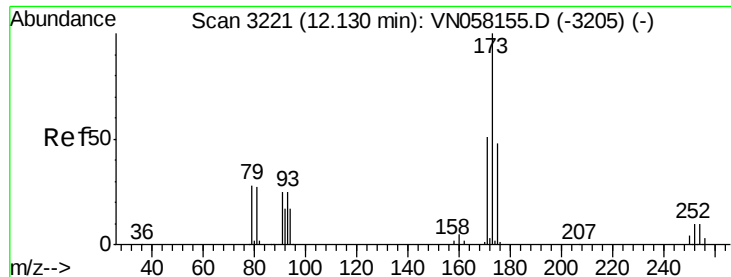
Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41

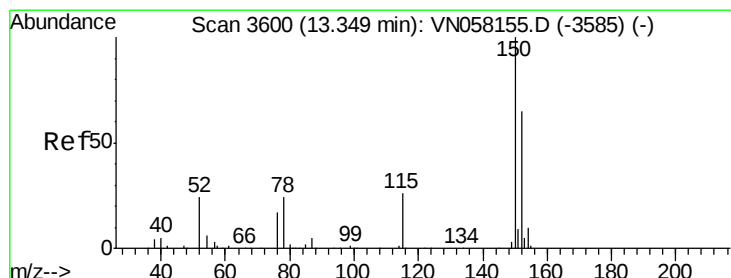
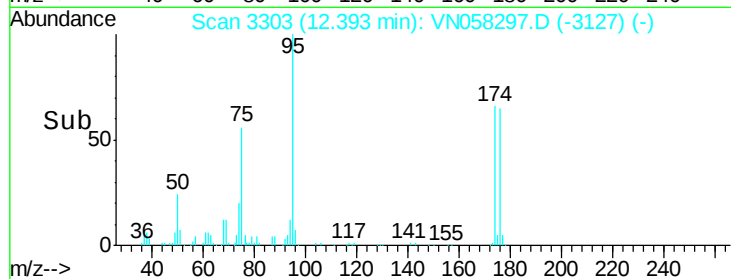
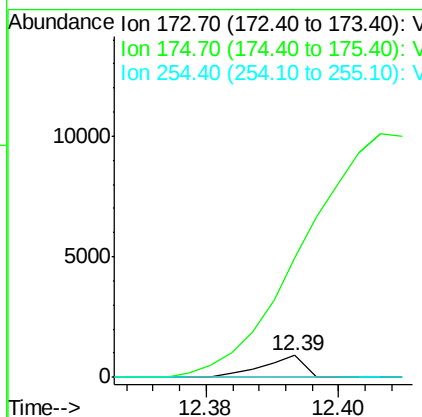
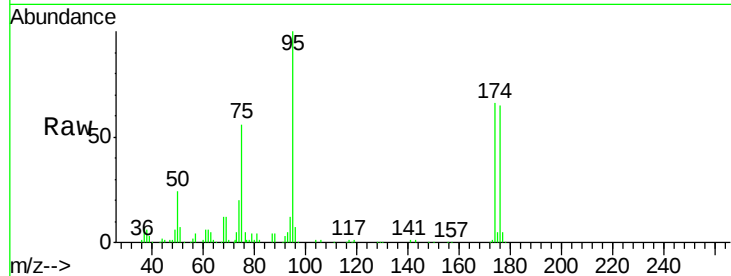




#71
Bromoform
Concen: 3.704 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

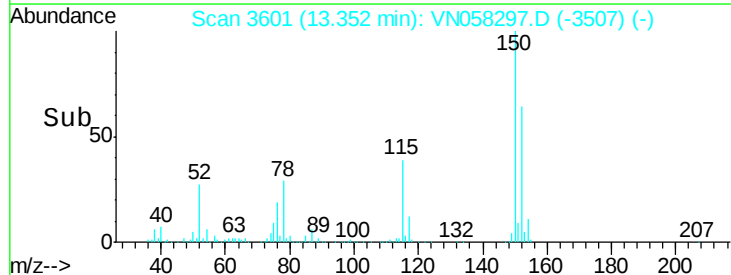
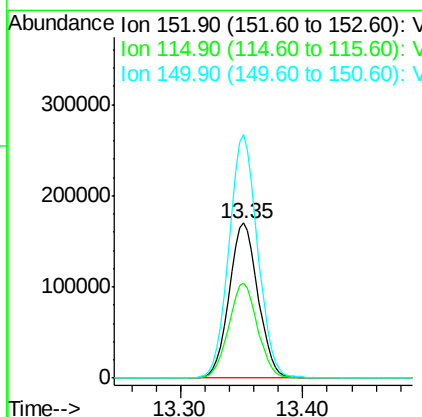
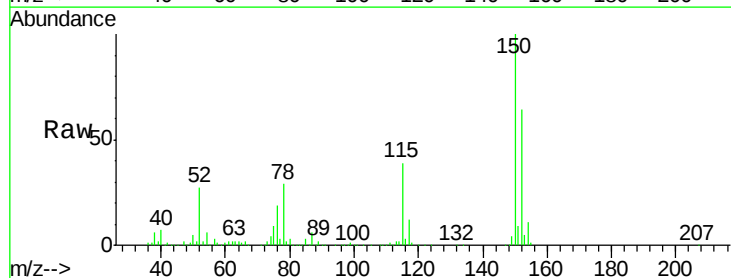
Instrument :
MSVOA_N
ClientSampled :

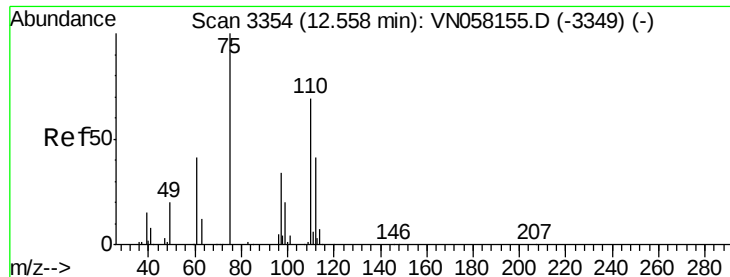
Tot Ion:173 Resp: 387
Ion Ratio Lower Upper
173 100
175 3615.8 24.2 72.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058297.D
Acq: 23 Sep 2019 16:58

Tgt Ion:152 Resp: 281505
Ion Ratio Lower Upper
152 100
115 61.2 30.1 90.3
150 155.3 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 35.601 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

Instrument :

MSVOA_N

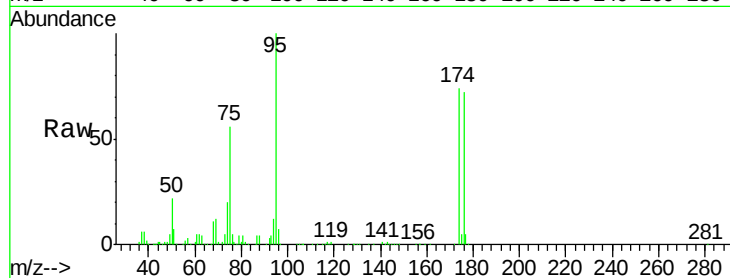
ClientSampled :

Tot Ion: 75 Resp: 179362

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

120000

100000

80000

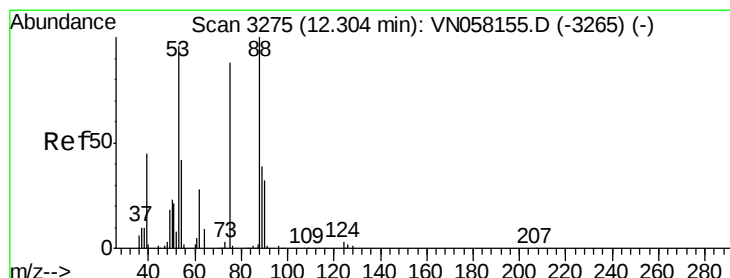
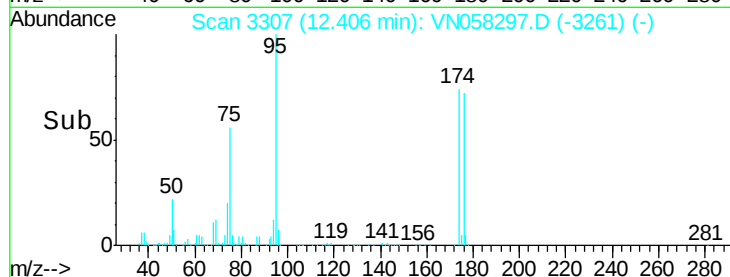
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 99.490 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058297.D

Acq: 23 Sep 2019 16:58

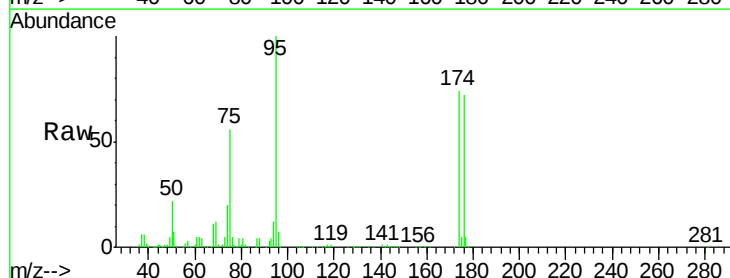
Tgt Ion: 75 Resp: 179362

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



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

150000

100000

50000

0

Time-->

