

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052631.D
 Acq On : 3 Dec 2018 15:09
 Operator : MD\SY
 Sample : J6169-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-26

Quant Time: Dec 04 00:25:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	160989	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	916660	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	760495	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	322487	29.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.00%
60) 4-Bromofluorobenzene	12.40	95	308570	26.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.47%
63) Toluene-d8	10.09	98	1056337	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

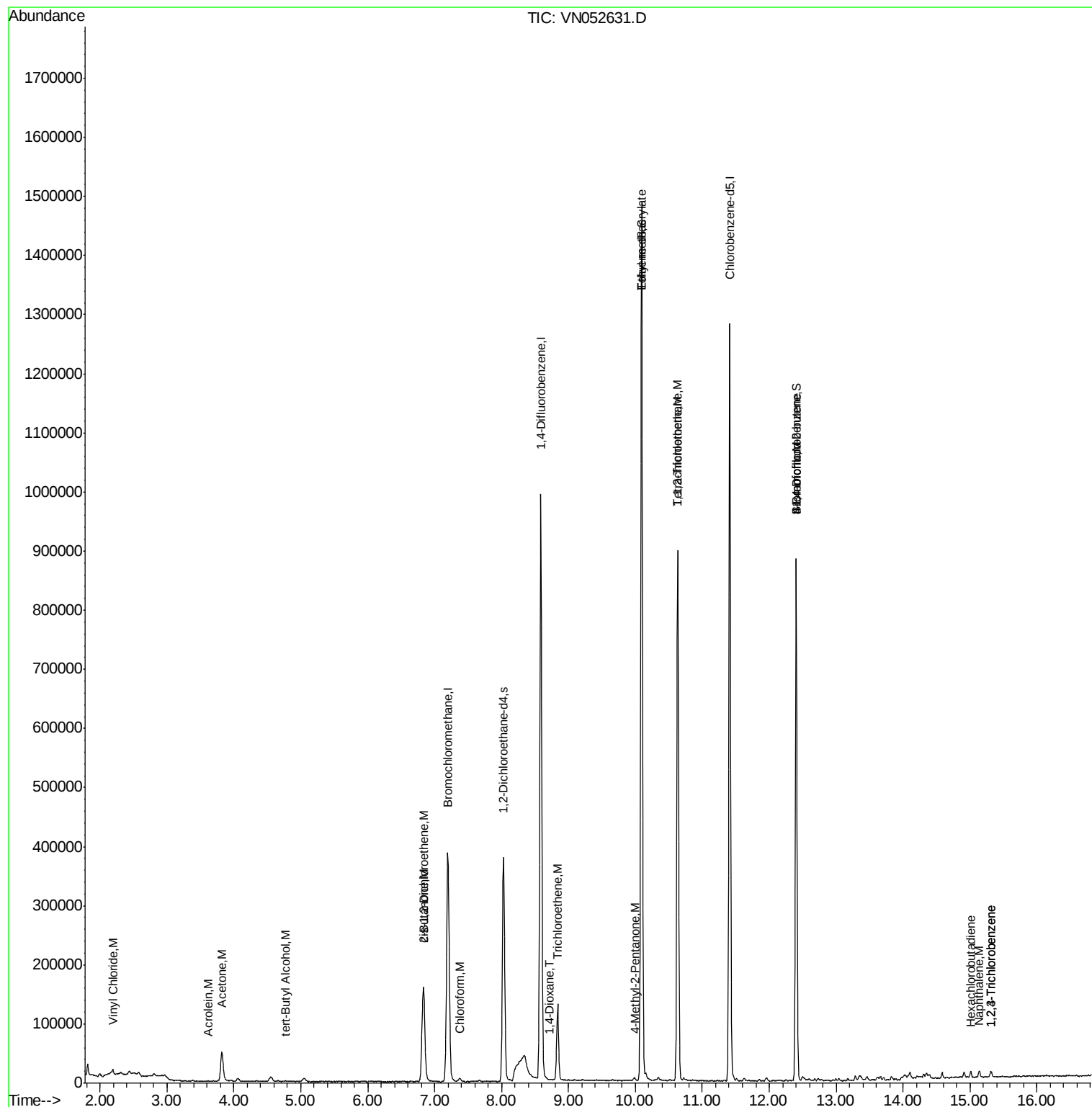
					Ovalue	
4) Vinyl Chloride	2.19	62	4785	0.390	ug/l	91
13) Acrolein	3.61	56	422	0.468	ug/l #	70
15) Acetone	3.82	58	27586	32.591	ug/l	94
22) cis-1,2-Dichloroethene	6.83	96	105207	9.449	ug/l	88
23) tert-Butyl Alcohol	4.77	59	644	1.325	ug/l #	100
25) Chloroform	7.37	83	4302	0.236	ug/l #	83
30) 2-Butanone	6.84	43	779	0.208	ug/l #	1
37) Trichloroethene	8.84	130	48906	4.583	ug/l	98
45) 1,4-Dioxane	8.72	88	60	0.785	ug/l #	1
50) 1,1,2-Trichloroethane	10.63	97	1774	0.205	ug/l #	1
51) Ethyl methacrylate	10.10	69	2790	0.257	ug/l	88
56) Bromoform	12.40	173	2507	0.403	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	3813	0.517	ug/l #	88
61) Tetrachloroethene	10.63	164	225620	24.088	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	147749	57.616	ug/l #	11
89) 1,2,4-Trichlorobenzene	15.31	180	4194	0.484	ug/l	91
90) Hexachlorobutadiene	15.01	225	1734	0.305	ug/l	79
91) Naphthalene	15.14	128	10110	0.577	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	4194	0.525	ug/l	88

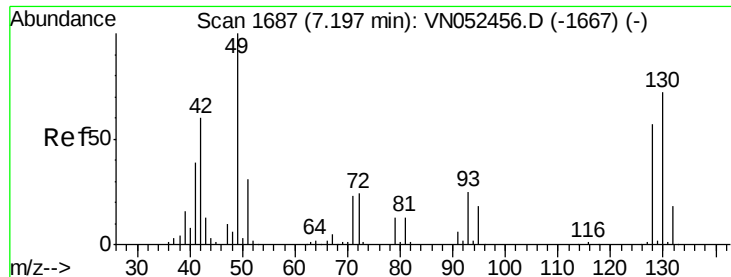
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-26

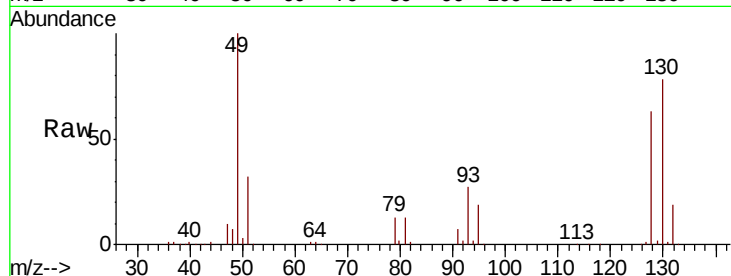
Tot Ion:128 Resp: 160989

Ion Ratio Lower Upper

128 100

49 160.4 0.0 431.8

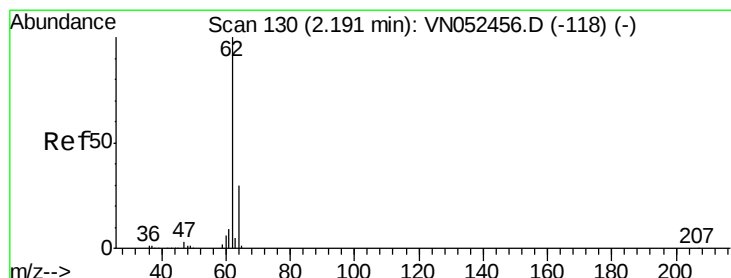
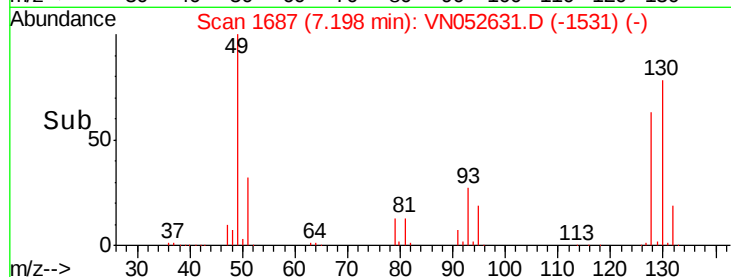
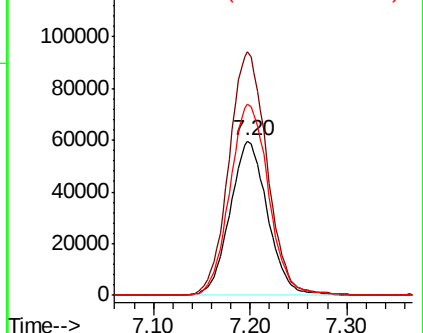
130 128.0 0.0 317.0



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



#4

Vinyl Chloride

Concen: 0.390 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052631.D

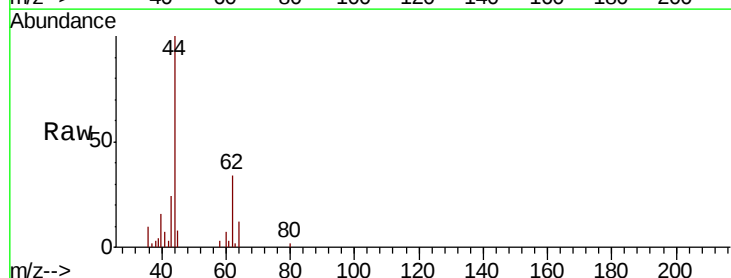
Acq: 3 Dec 2018 15:09

Tgt Ion: 62 Resp: 4785

Ion Ratio Lower Upper

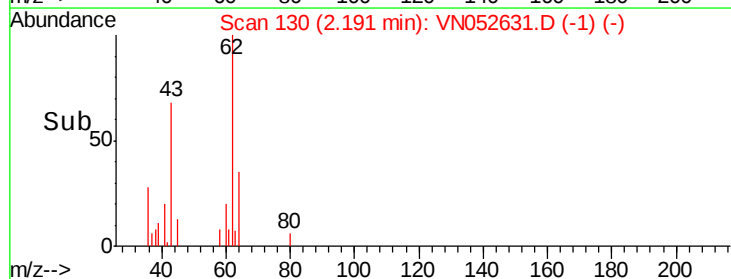
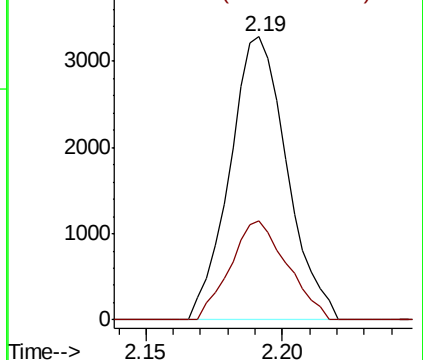
62 100

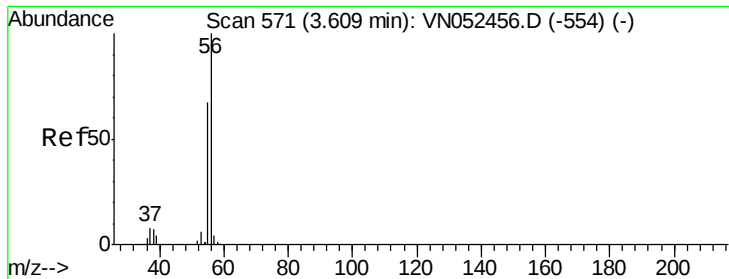
64 35.0 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN

Ion 64.00 (63.70 to 64.70): VN





#13

Acrolein

Concen: 0.468 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Instrument :

MSVOA_N

ClientSampled :

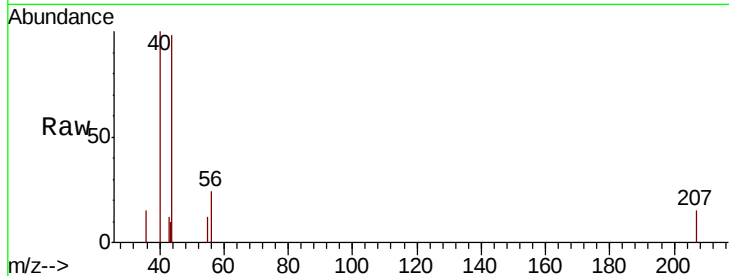
2-AVE-26

Tot Ion: 56 Resp: 422

Ion Ratio Lower Upper

56 100

55 46.2 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

400

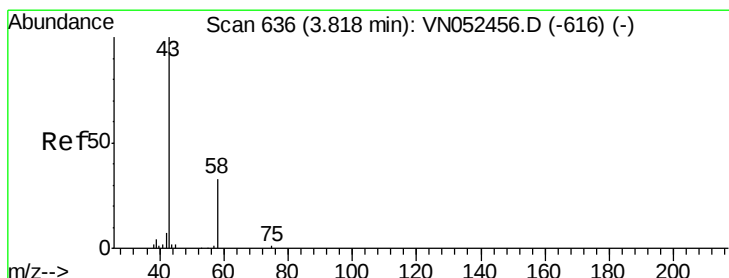
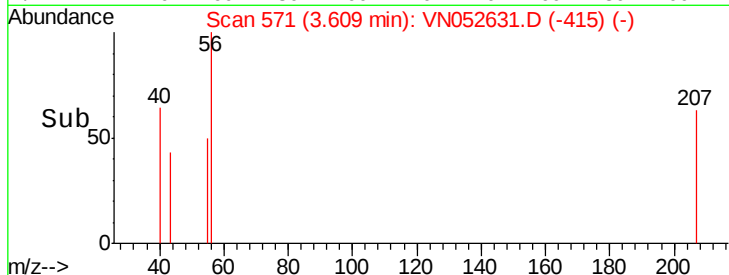
300

200

100

0

Time-->



#15

Acetone

Concen: 32.591 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052631.D

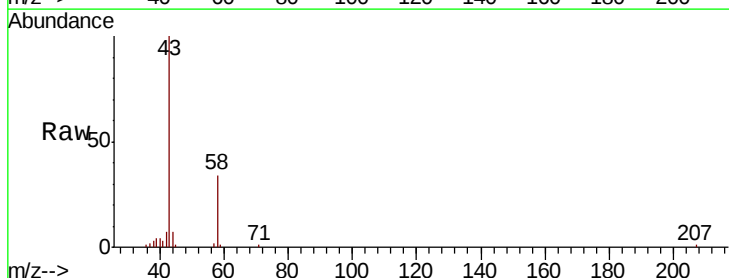
Acq: 3 Dec 2018 15:09

Tgt Ion: 58 Resp: 27586

Ion Ratio Lower Upper

58 100

43 291.7 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

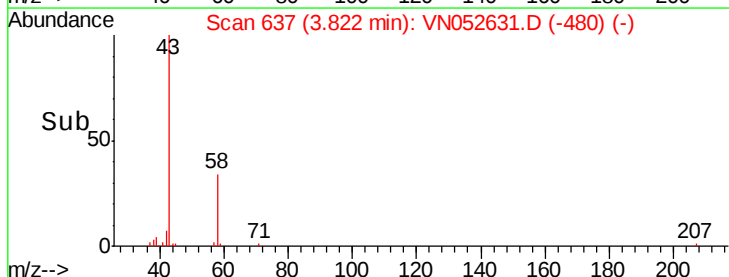
30000

20000

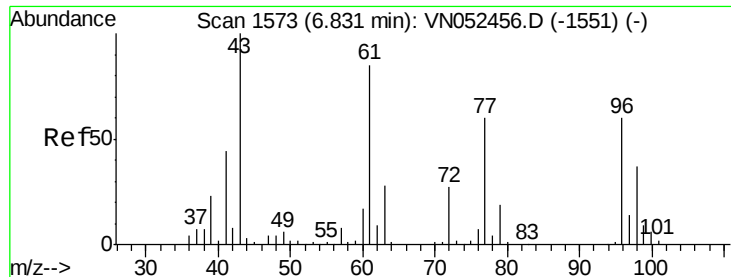
10000

0

Time-->



Time-->



#22

cis-1,2-Dichloroethene

Concen: 9.449 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

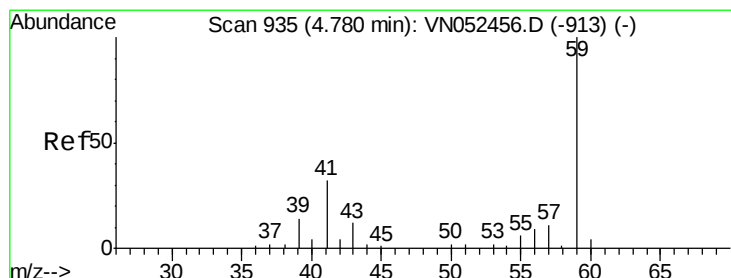
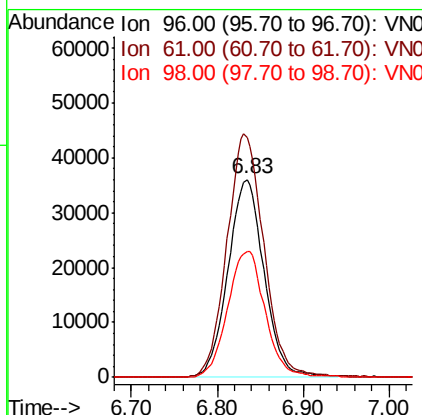
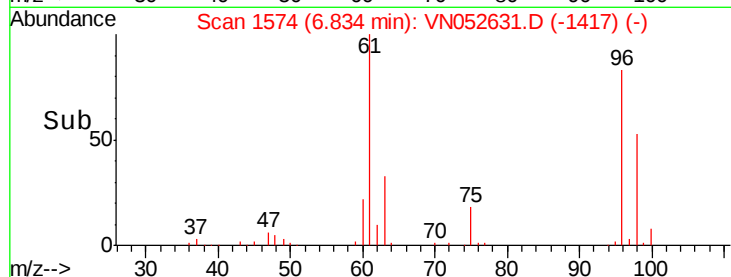
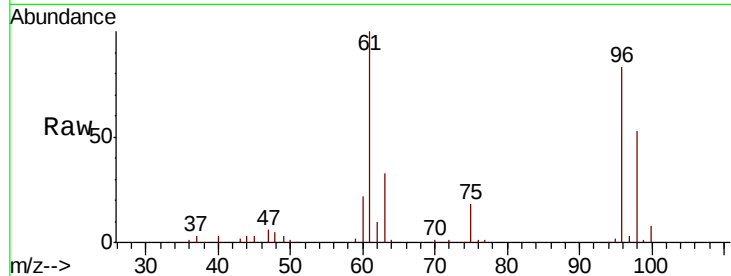
Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Instrument :
MSVOA_N
ClientSampled :
2-AVE-26

Tot Ion: 96 Resp: 105207

Ion	Ratio	Lower	Upper
96	100		
61	125.2	116.7	175.1
98	65.8	50.8	76.2



#23

tert-Butyl Alcohol

Concen: 1.325 ug/l

RT: 4.77 min Scan# 932

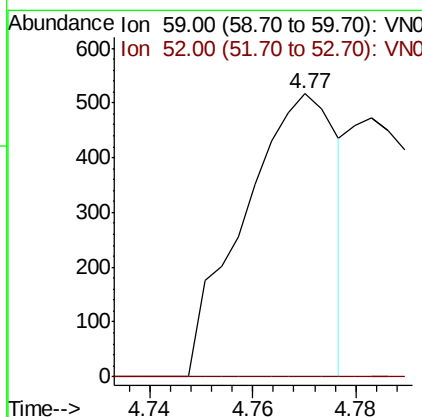
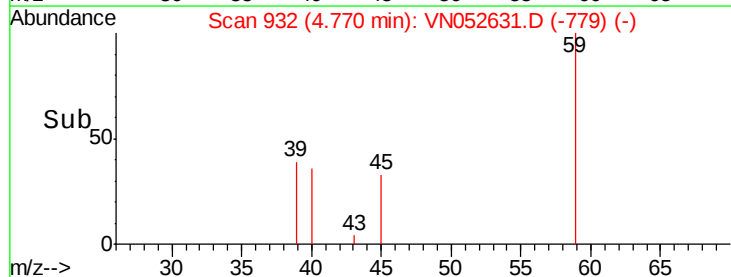
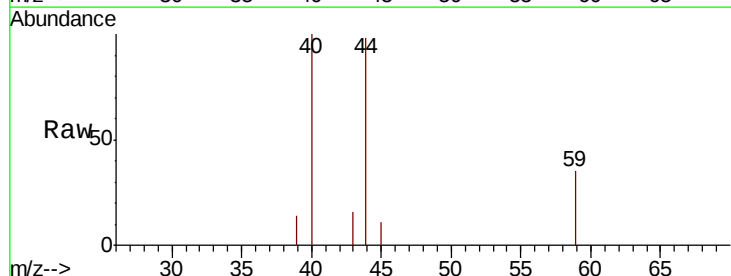
Delta R.T. -0.01 min

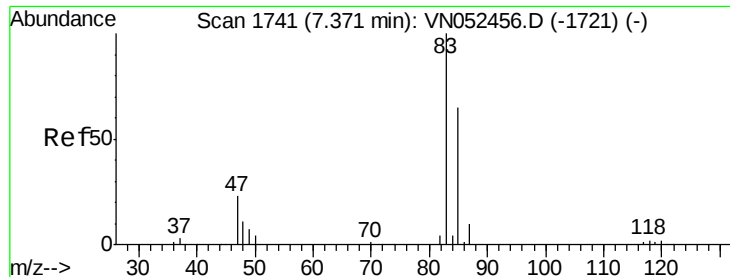
Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Tgt Ion: 59 Resp: 644

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

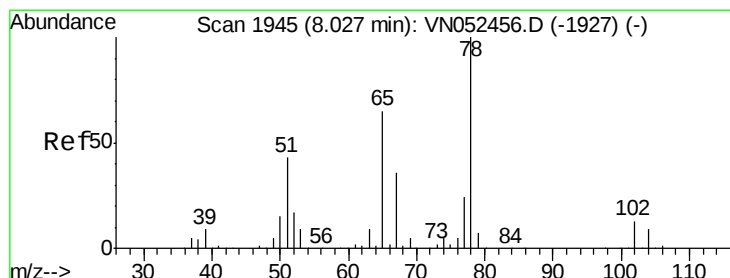
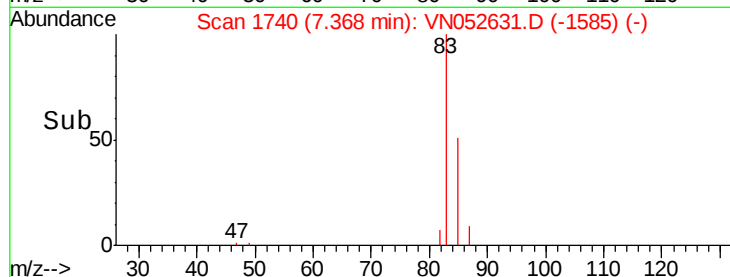
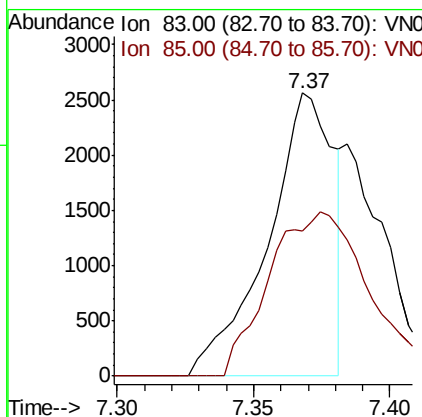
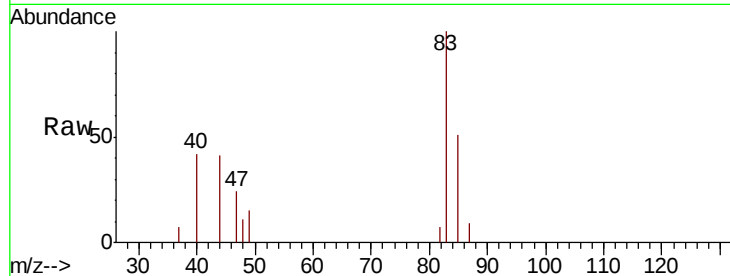




#25
Chloroform
Concen: 0.236 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

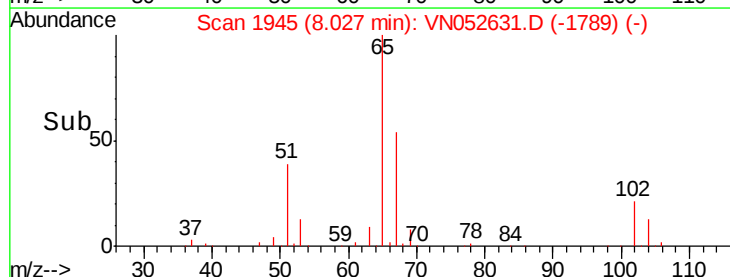
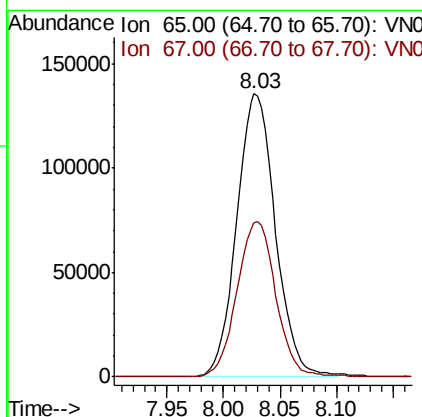
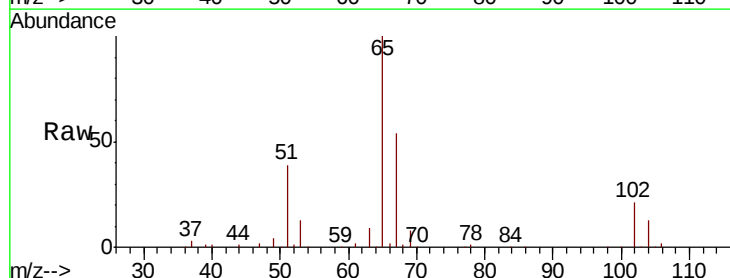
Instrument :
MSVOA_N
ClientSampled :
2-AVE-26

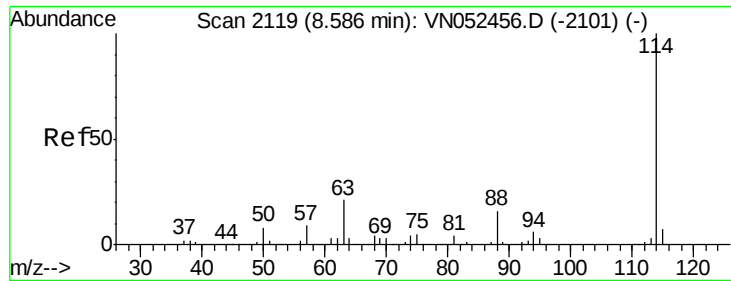
Tot Ion: 83 Resp: 4302
Ion Ratio Lower Upper
83 100
85 51.2 51.7 77.5#



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

Tgt Ion: 65 Resp: 322487
Ion Ratio Lower Upper
65 100
67 55.0 44.6 66.8

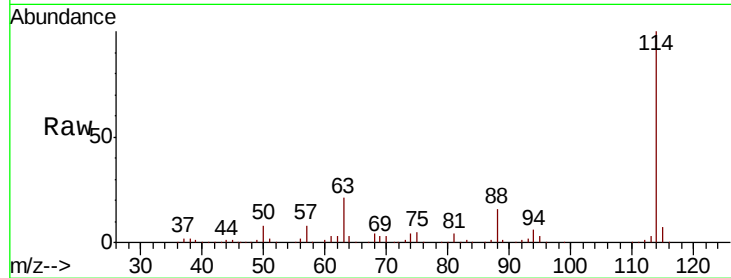




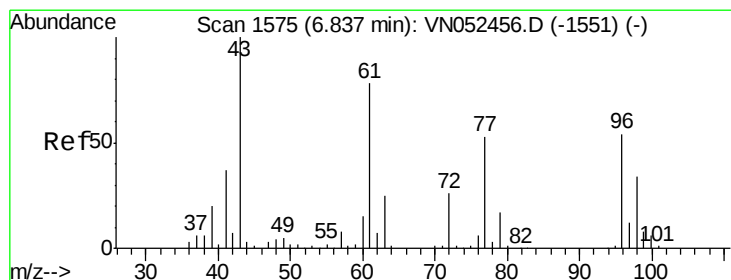
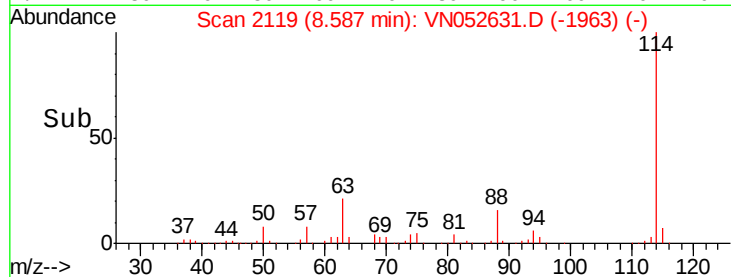
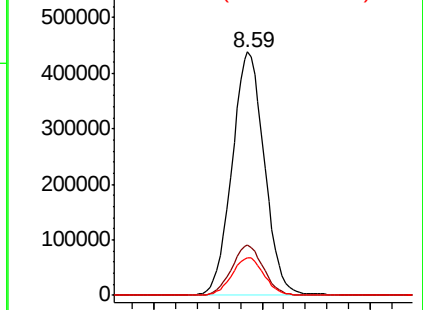
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Instrument :
 MSVOA_N
 ClientSampleID :
 2-AVE-26

Tot Ion:114 Resp: 916660
 Ion Ratio Lower Upper
 114 100
 63 20.3 16.9 25.3
 88 15.4 12.8 19.2

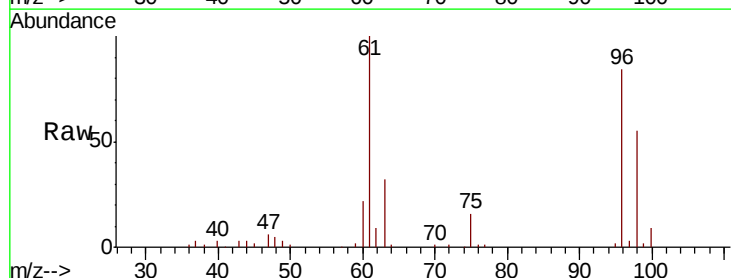


Abundance Ion 114.00 (113.70 to 114.70): VN052456.D (-2101) (-)
 Ion 63.00 (62.70 to 63.70): VN052456.D (-2101) (-)
 Ion 88.00 (87.70 to 88.70): VN052456.D (-2101) (-)

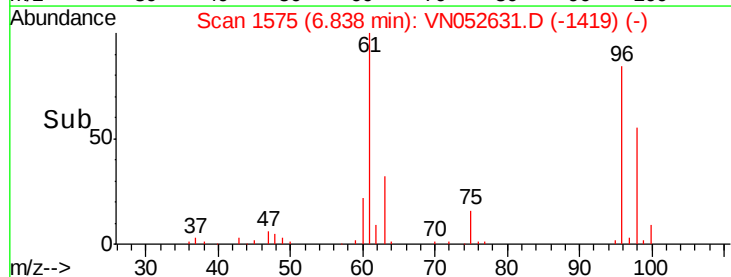
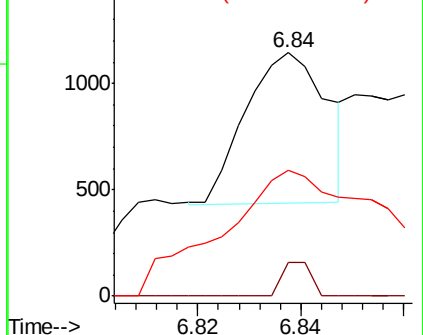


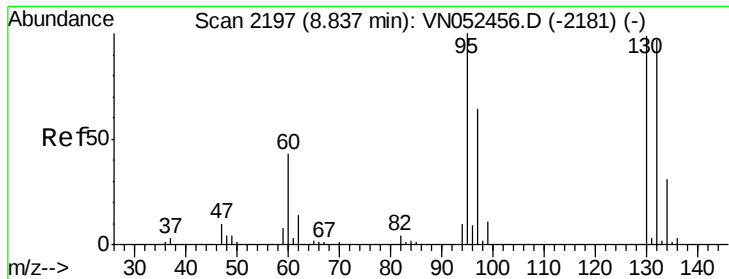
#30
 2-Butanone
 Concen: 0.208 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Tgt Ion: 43 Resp: 779
 Ion Ratio Lower Upper
 43 100
 57 7.8 6.2 9.4
 72 162.8 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052456.D (-1551) (-)
 Ion 57.00 (56.70 to 57.70): VN052456.D (-1551) (-)
 Ion 72.00 (71.70 to 72.70): VN052456.D (-1551) (-)

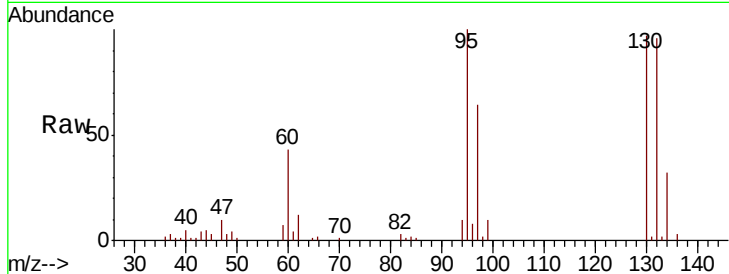




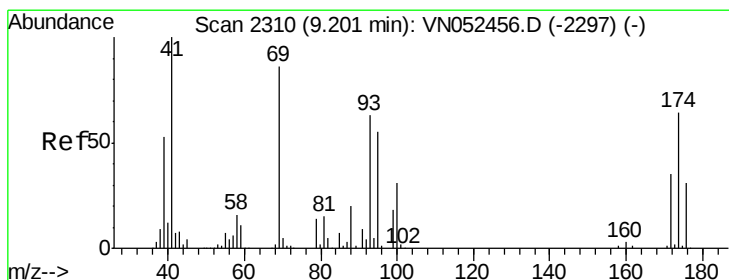
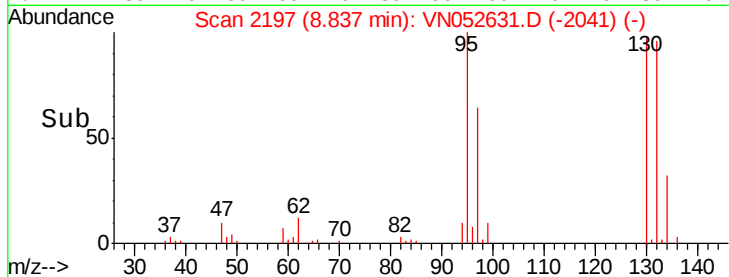
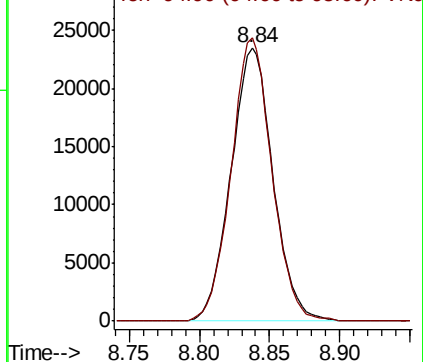
#37
 Trichloroethene
 Concen: 4.583 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-26

Tot Ion:130 Resp: 48906
 Ion Ratio Lower Upper
 130 100
 95 103.4 81.0 121.4

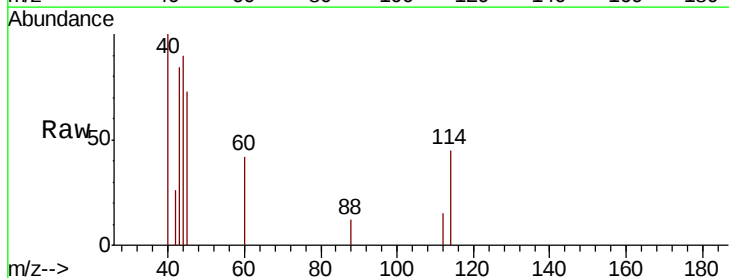


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

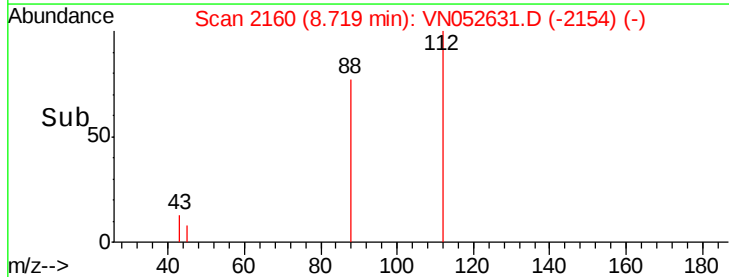
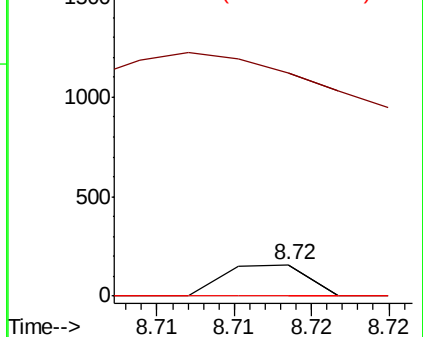


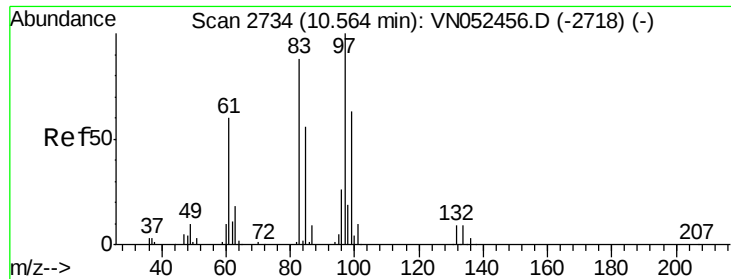
#45
 1,4-Dioxane
 Concen: 0.785 ug/l
 RT: 8.72 min Scan# 2160
 Delta R.T. -0.48 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Tgt Ion: 88 Resp: 60
 Ion Ratio Lower Upper
 88 100
 43 1041.7 29.5 44.3#
 58 0.0 61.5 92.3#



Abundance Ion 88.00 (87.70 to 88.70): VN
 Ion 43.00 (42.70 to 43.70): VN
 Ion 58.00 (57.70 to 58.70): VN

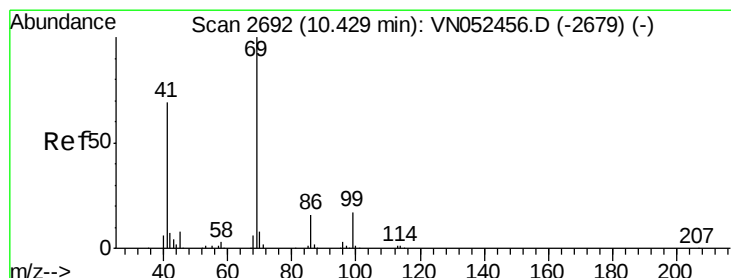
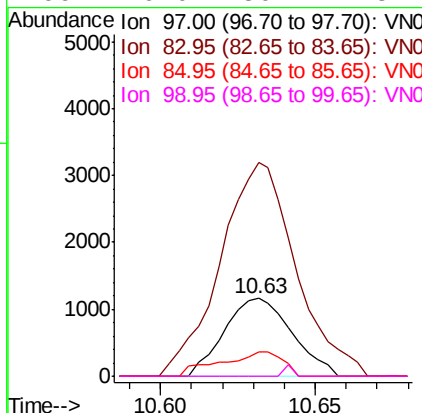
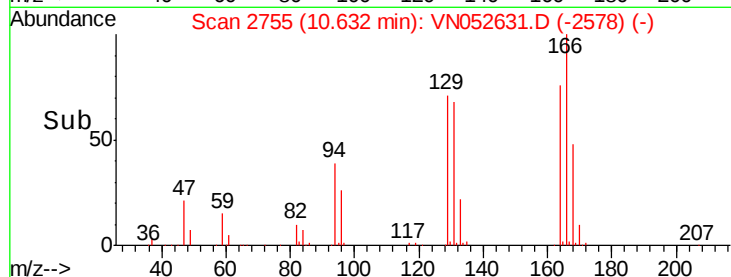
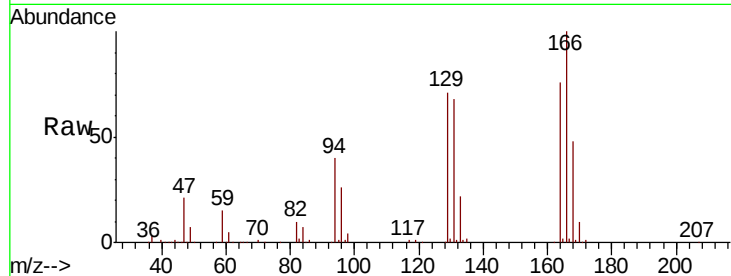




#50
 1,1,2-Trichloroethane
 Concen: 0.205 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. 0.07 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

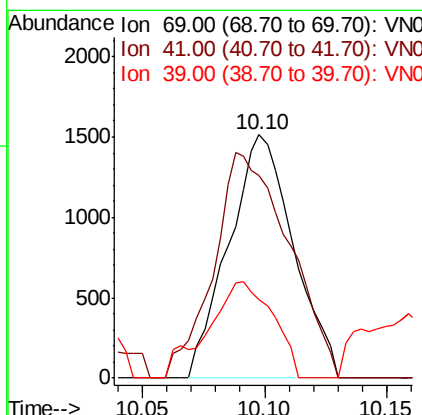
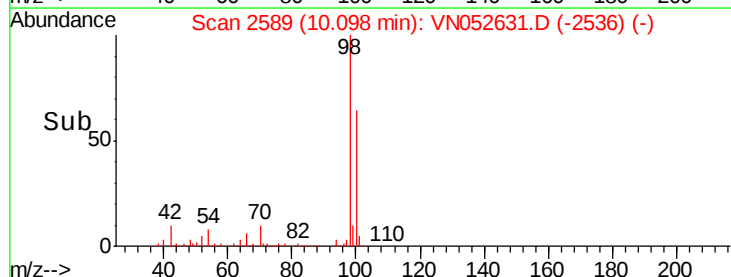
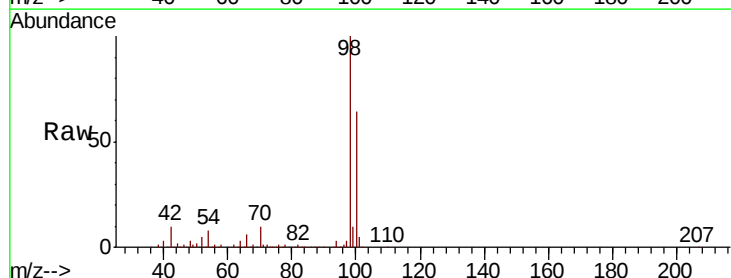
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-26

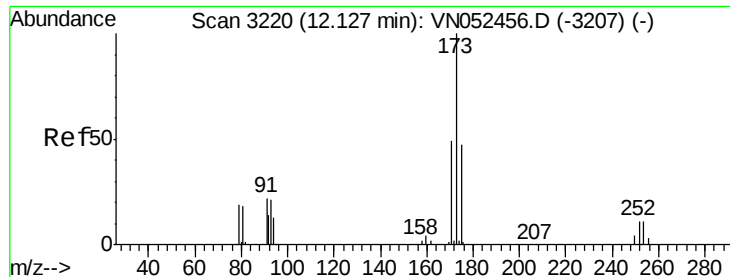
Tot Ion: 97 Resp: 1774
 Ion Ratio Lower Upper
 97 100
 83 240.8 70.4 105.6#
 85 31.0 45.0 67.6#
 99 0.0 50.2 75.2#



#51
 Ethyl methacrylate
 Concen: 0.257 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.33 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Tgt Ion: 69 Resp: 2790
 Ion Ratio Lower Upper
 69 100
 41 83.1 34.4 103.3
 39 32.1 16.4 49.2

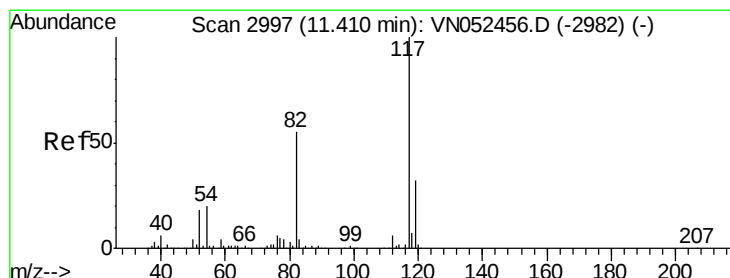
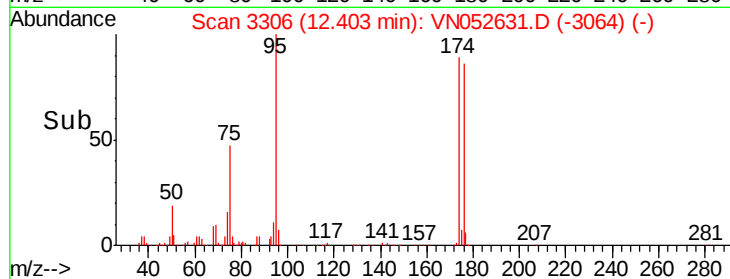
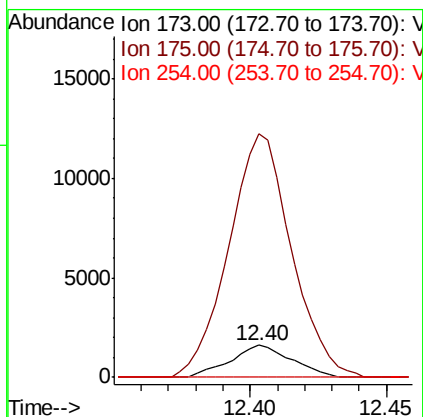
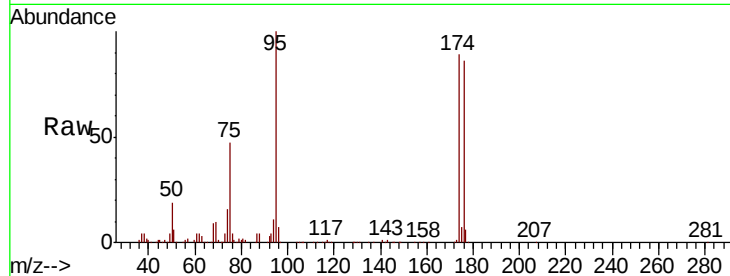




#56
Bromoform
Concen: 0.403 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

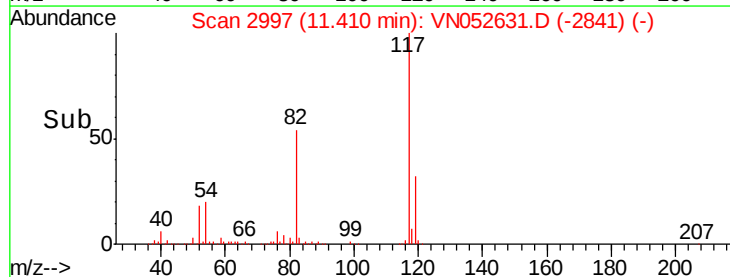
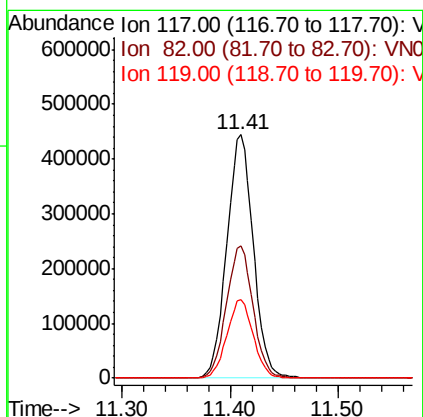
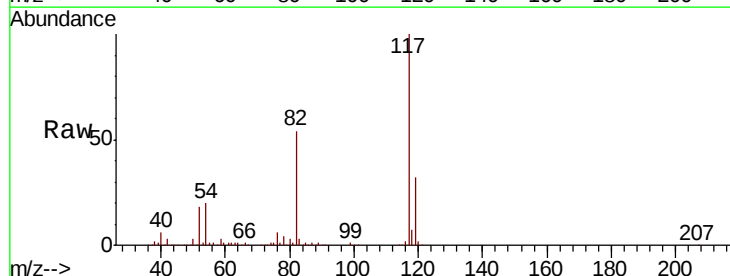
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-26

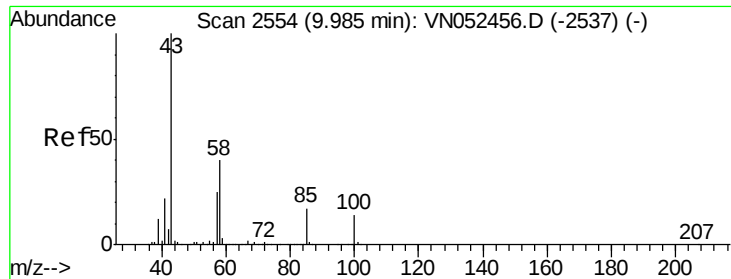
Tot Ion:173 Resp: 2507
Ion Ratio Lower Upper
173 100
175 777.4 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

Tgt Ion:117 Resp: 760495
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 32.3 25.4 38.2

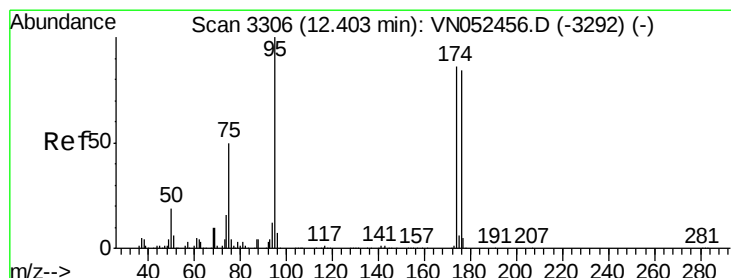
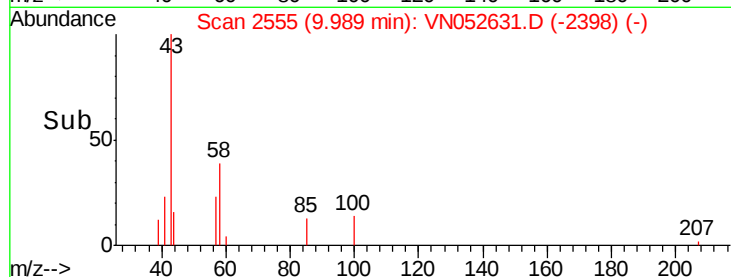
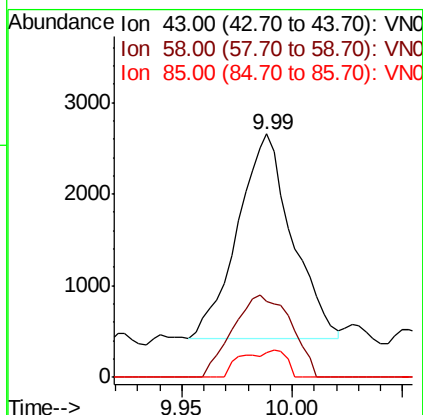
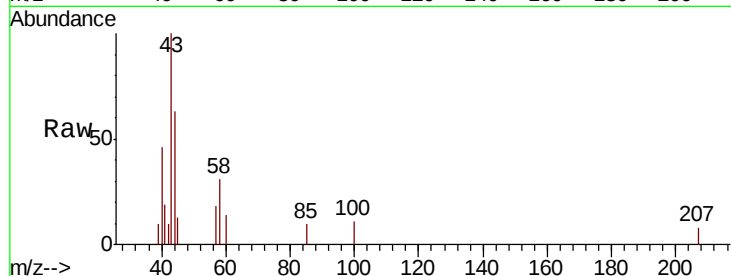




#58
4-Methyl-2-Pentanone
Concen: 0.517 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

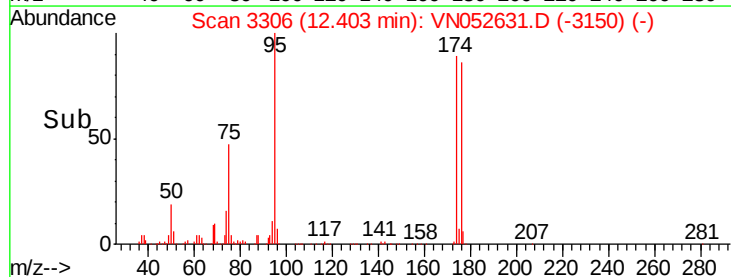
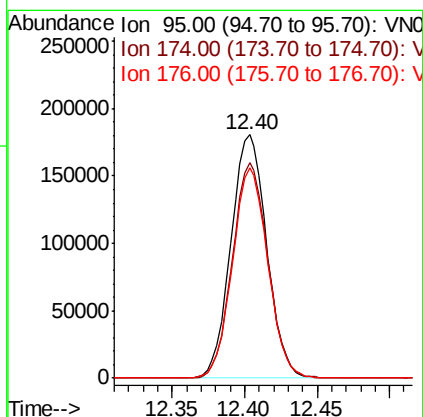
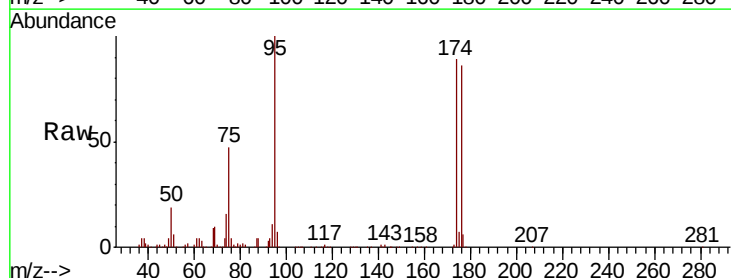
Instrument :
MSVOA_N
ClientSampled :
2-AVE-26

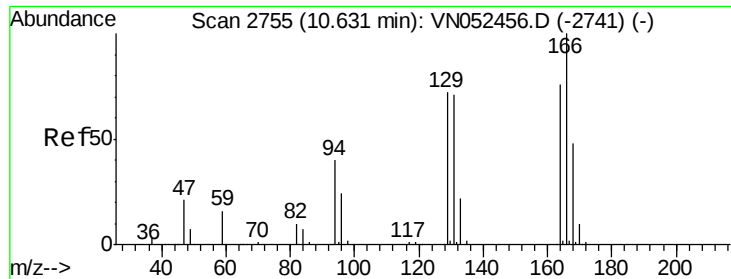
Tot Ion: 43 Resp: 3813
Ion Ratio Lower Upper
43 100
58 43.3 31.6 47.4
85 5.2 13.3 19.9#



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052631.D
Acq: 3 Dec 2018 15:09

Tgt Ion: 95 Resp: 308570
Ion Ratio Lower Upper
95 100
174 88.0 67.9 101.9
176 85.4 66.4 99.6





#61

Tetrachloroethene

Concen: 24.088 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-26

Tot Ion:164 Resp: 225620

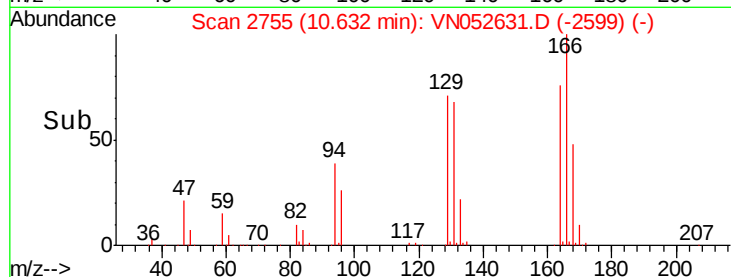
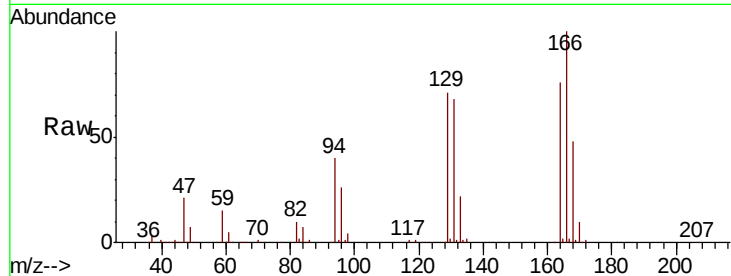
Ion Ratio Lower Upper

164 100

166 130.9 104.6 157.0

129 92.7 75.3 112.9

131 88.6 74.3 111.5

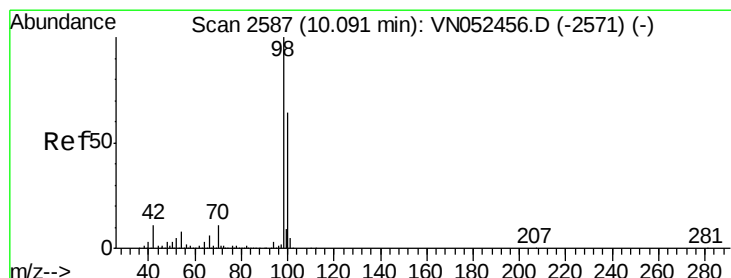
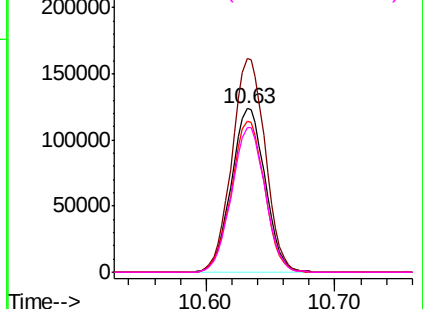


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052631.D

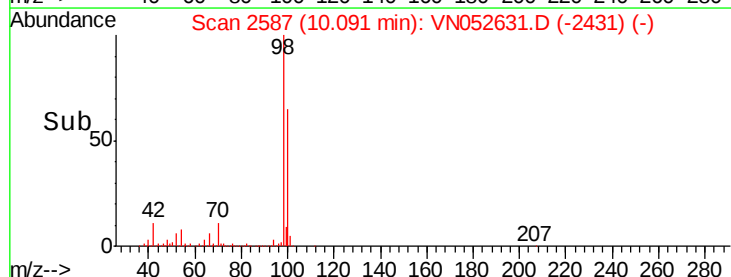
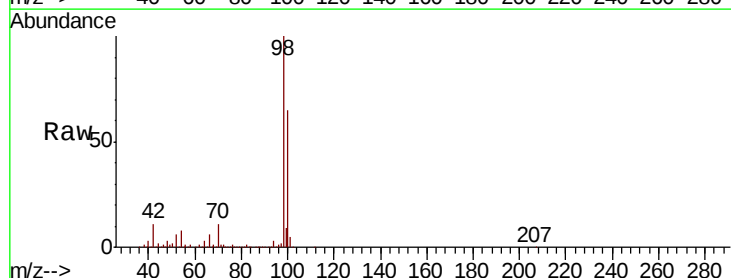
Acq: 3 Dec 2018 15:09

Tgt Ion: 98 Resp: 1056337

Ion Ratio Lower Upper

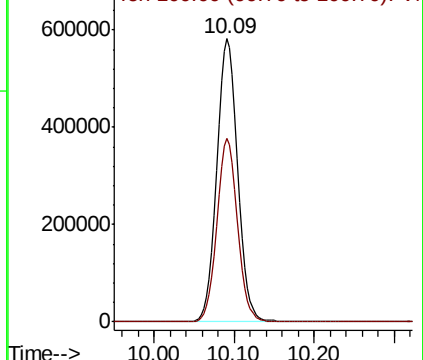
98 100

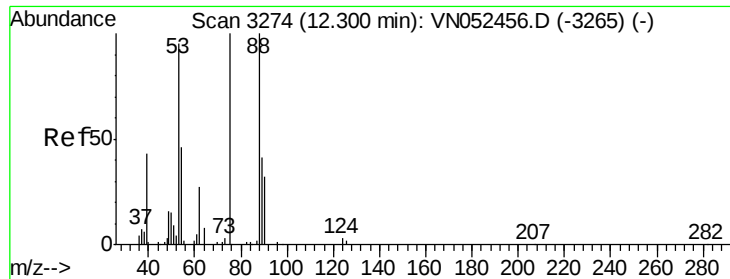
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

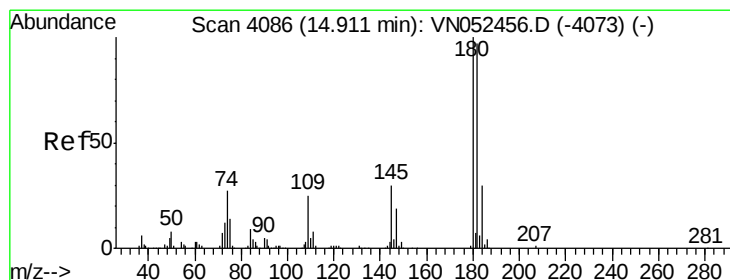
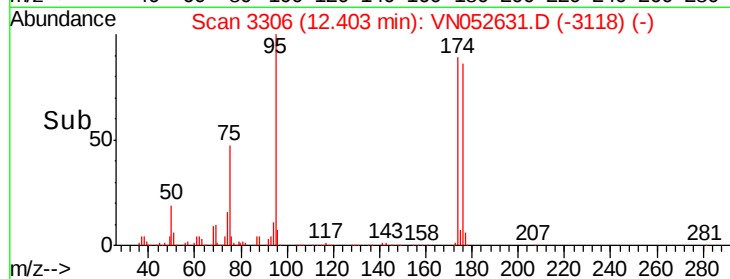
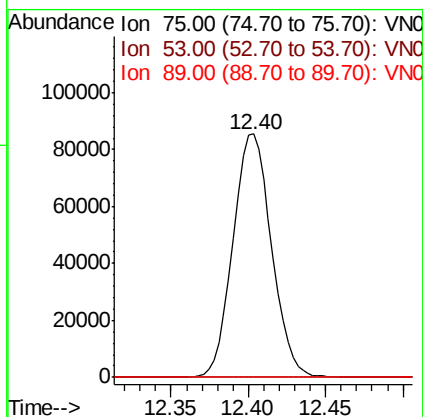
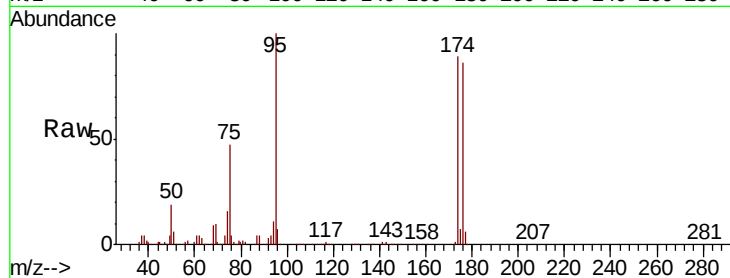




#77
 t-1,4-Dichloro-2-butene
 Concen: 57.616 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

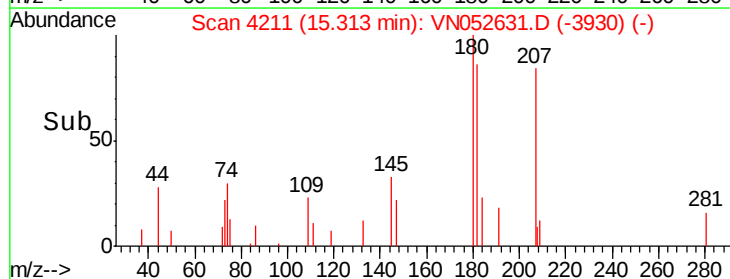
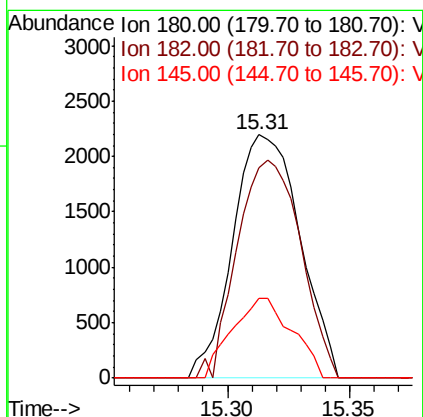
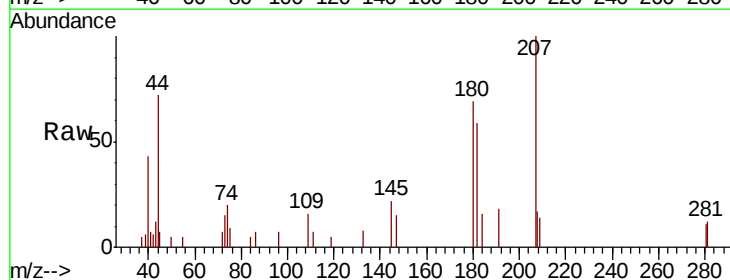
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-26

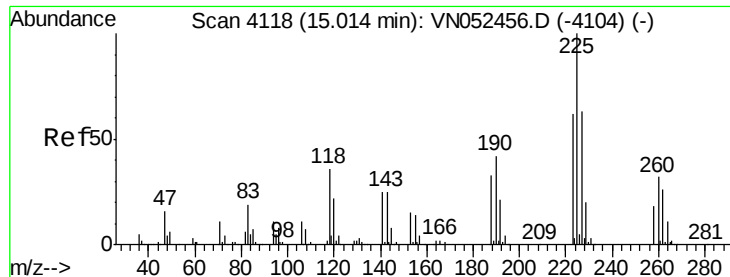
Tot Ion: 75 Resp: 147749
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.5 145.6#
 89 0.0 21.7 65.1#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.484 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.40 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Tgt Ion: 180 Resp: 4194
 Ion Ratio Lower Upper
 180 100
 182 84.0 76.6 114.8
 145 29.3 23.6 35.4





#90

Hexachlorobutadiene

Concen: 0.305 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-26

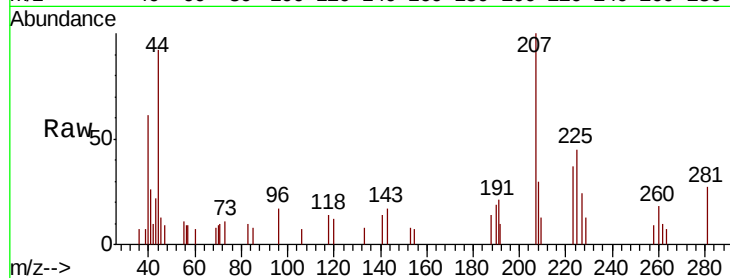
Tot Ion:225 Resp: 1734

Ion Ratio Lower Upper

225 100

223 69.1 0.0 125.6

227 38.4 0.0 127.8



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

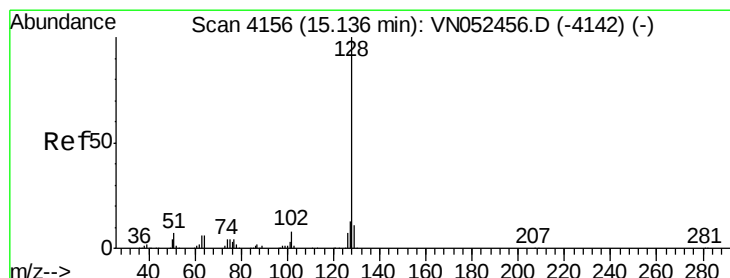
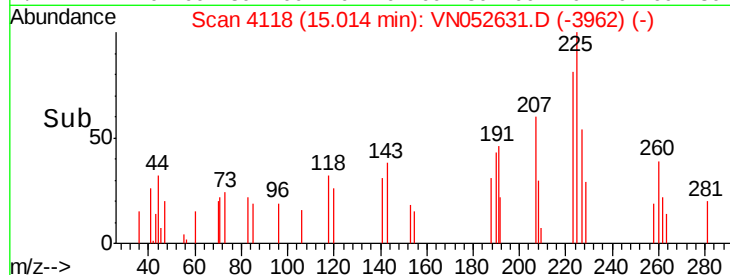
15.01

1000

500

0

Time-->



#91

Naphthalene

Concen: 0.577 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN052631.D

Acq: 3 Dec 2018 15:09

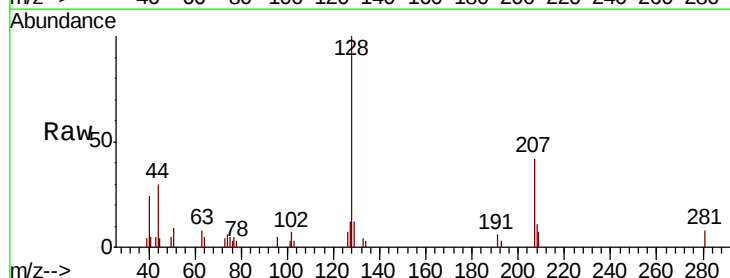
Tgt Ion:128 Resp: 10110

Ion Ratio Lower Upper

128 100

127 11.4 9.9 14.9

129 10.3 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

15.14

8000

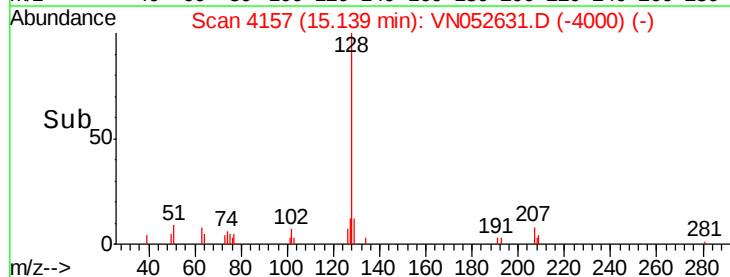
6000

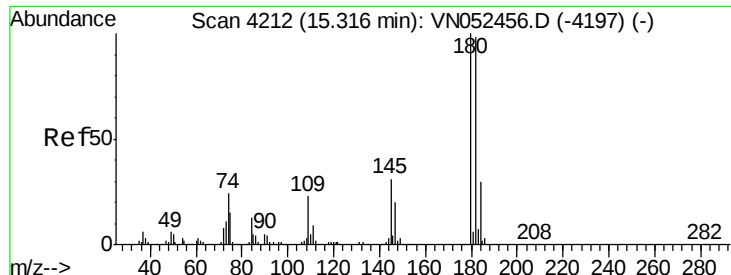
4000

2000

0

Time-->

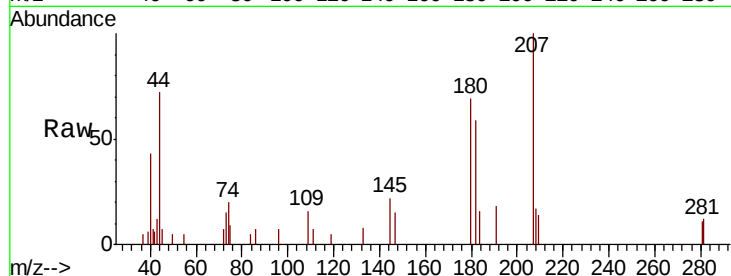




#92
 1,2,3-Trichlorobenzene
 Concen: 0.525 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN052631.D
 Acq: 3 Dec 2018 15:09

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-26

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.0	0.0	196.2
145	29.3	0.0	62.2



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

