

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
 Data File : VN057231.D
 Acq On : 12 Aug 2019 21:42
 Operator : JC/SP
 Sample : K4229-30
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A2-(0)

Quant Time: Aug 13 01:49:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1315772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1821644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1495956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	358305	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	602655	44.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.08%	
35) Dibromofluoromethane	6.99	113	552124	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	9.56	98	2114436	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.92	95	530314	37.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.26%	

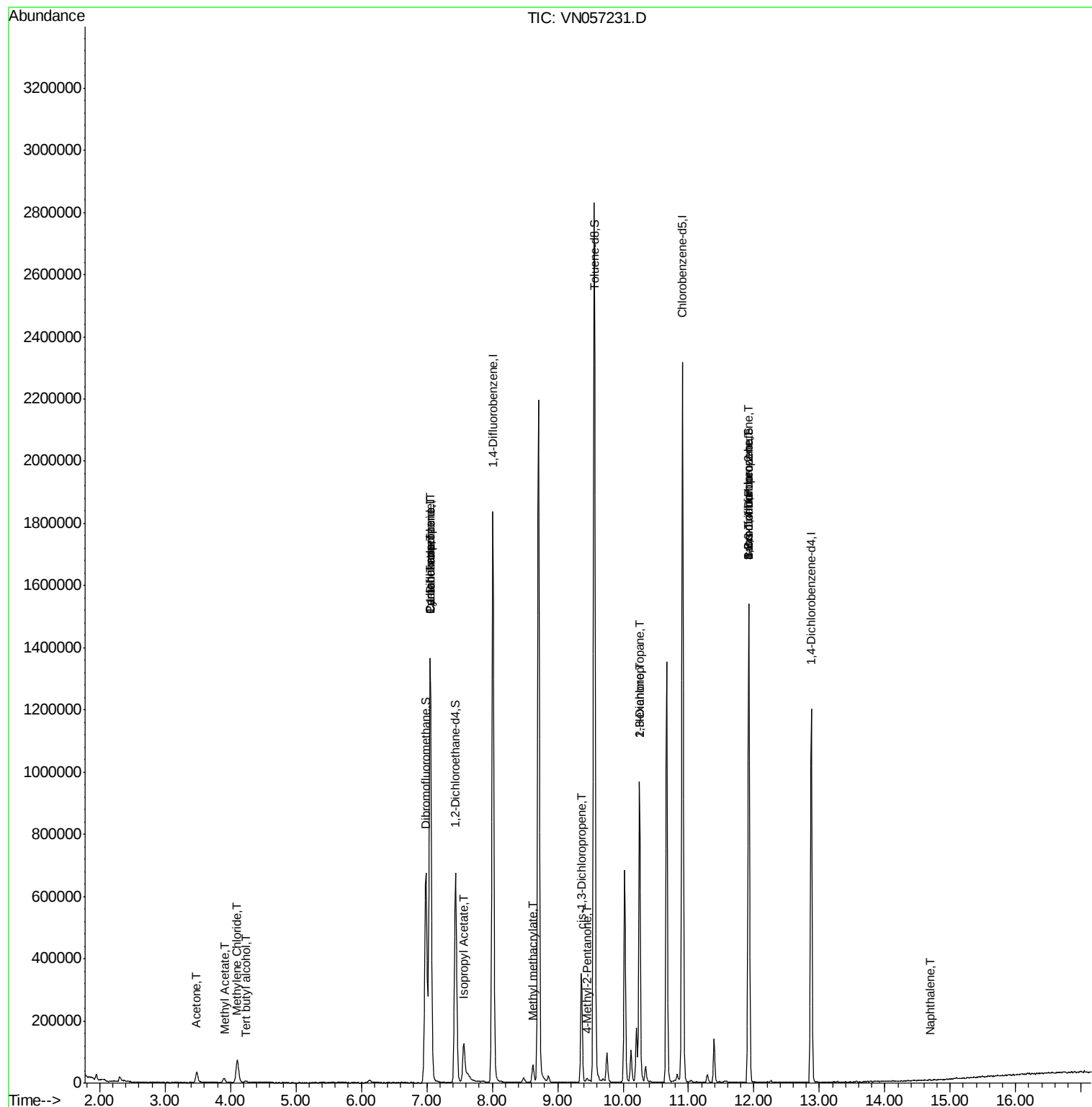
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.22	59	2313	1.201	ug/l #	73
16) Acetone	3.48	43	48199	11.794	ug/l	91
18) Methyl Acetate	3.91	43	25536	1.459	ug/l #	71
20) Methylene Chloride	4.10	84	56252	4.171	ug/l	98
31) Cyclohexane	7.05	56	18801	0.958	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	78253	5.217	ug/l #	49
38) Carbon Tetrachloride	7.05	117	111097	7.107	ug/l #	17
43) Isopropyl Acetate	7.56	43	191300	9.067	ug/l #	78
48) Methyl methacrylate	8.62	41	7098	0.713	ug/l #	10
51) 4-Methyl-2-Pentanone	9.45	43	9843	0.802	ug/l	95
54) cis-1,3-Dichloropropene	9.36	75	70773	3.871	ug/l #	60
57) 1,3-Dichloropropane	10.25	76	10935	0.572	ug/l #	42
59) 2-Hexanone	10.25	43	133040	16.008	ug/l #	51
71) Bromoform	11.92	173	3747	0.455	ug/l #	1
73) Isopropylbenzene	11.77	105	66	Below Cal	#	48
76) 1,2,3-Trichloropropane	11.92	75	248005	34.547	ug/l #	100
79) 2-Chlorotoluene	12.20	91	179	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	248005	101.772	ug/l #	14
83) tert-Butylbenzene	12.59	119	36	Below Cal	#	28
95) Naphthalene	14.68	128	160	2.819	ug/l #	69

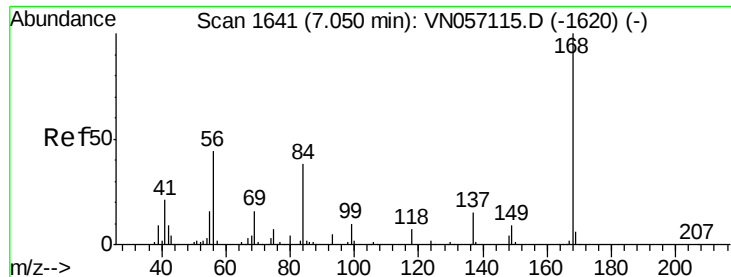
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057231.D

Acq: 12 Aug 2019 21:42

Instrument :

MSVOA_N

ClientSampleId :

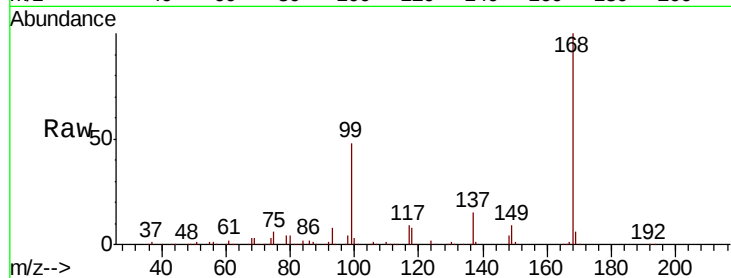
2S-A2-(0)

Tgt Ion:168 Resp: 1315772

Ion Ratio Lower Upper

168 100

99 47.8 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057231.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057231.D (-1620) (-)

7.05

600000

500000

400000

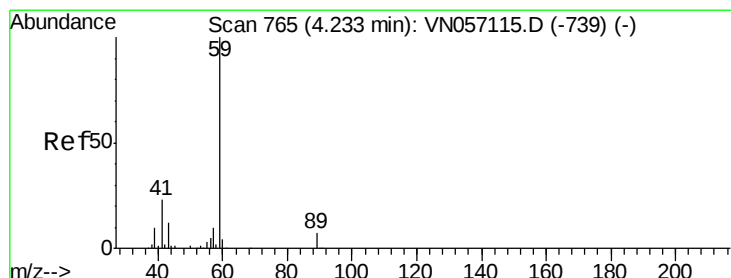
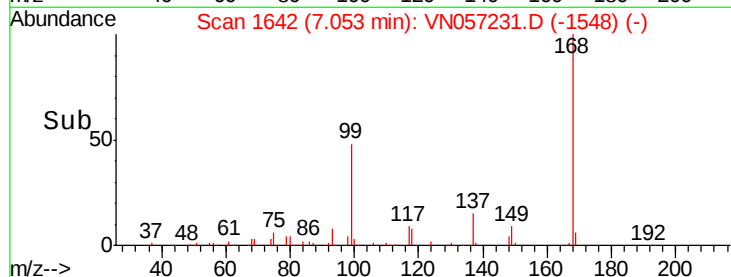
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.201 ug/l

RT: 4.22 min Scan# 762

Delta R.T. -0.01 min

Lab File: VN057231.D

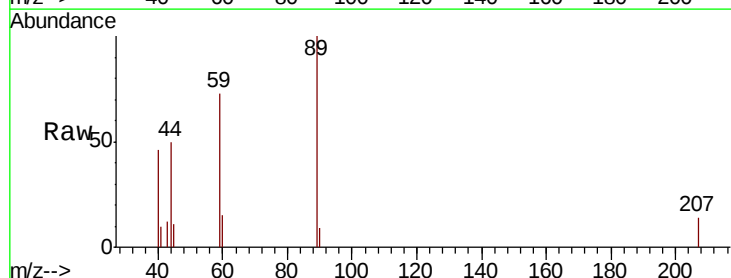
Acq: 12 Aug 2019 21:42

Tgt Ion: 59 Resp: 2313

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN057231.D (-739) (-)

Ion 57.00 (56.70 to 57.70): VN057231.D (-739) (-)

4.22

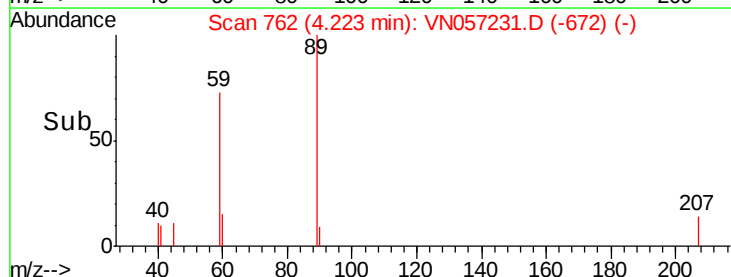
1500

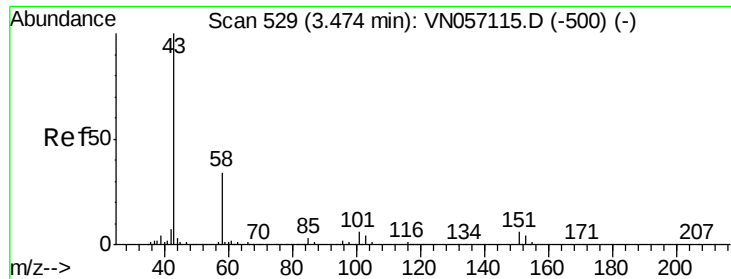
1000

500

0

Time--> 4.16 4.18 4.20 4.22 4.24





#16

Acetone

Concen: 11.794 ug/l

RT: 3.48 min Scan# 530

Delta R.T. 0.00 min

Lab File: VN057231.D

Acq: 12 Aug 2019 21:42

Instrument :

MSVOA_N

ClientSampleId :

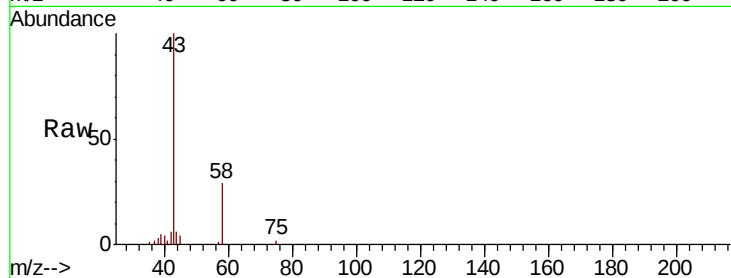
2S-A2-(0)

Tgt Ion: 43 Resp: 48199

Ion Ratio Lower Upper

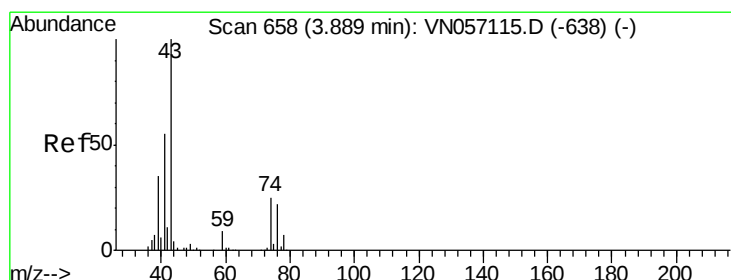
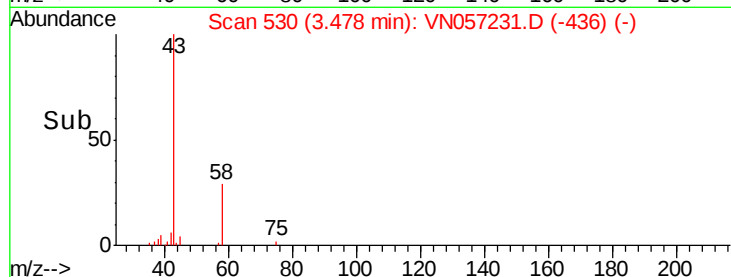
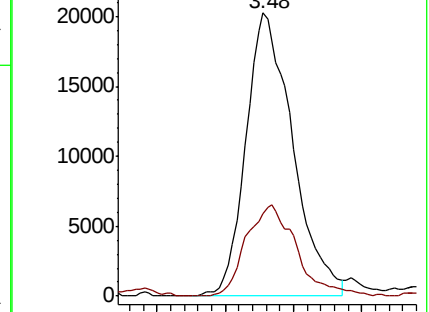
43 100

58 29.1 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VN057231.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN057231.D (-530) (-)



#18

Methyl Acetate

Concen: 1.459 ug/l

RT: 3.91 min Scan# 663

Delta R.T. 0.02 min

Lab File: VN057231.D

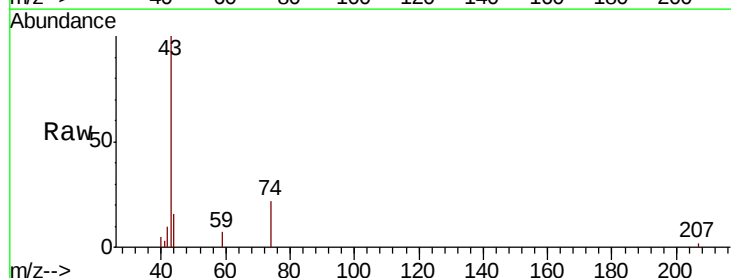
Acq: 12 Aug 2019 21:42

Tgt Ion: 43 Resp: 25536

Ion Ratio Lower Upper

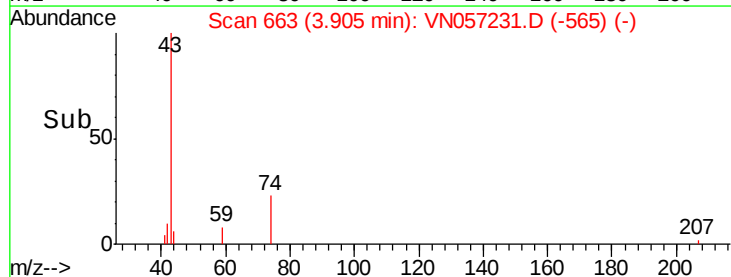
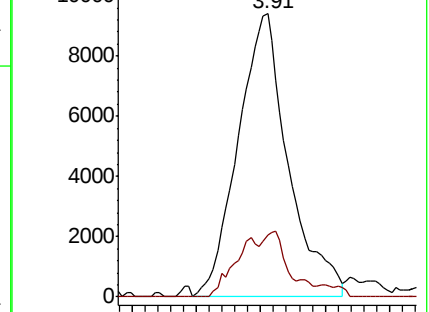
43 100

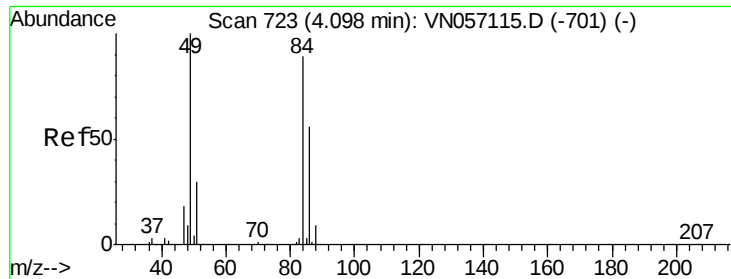
74 10.5 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN057231.D (-663) (-)

Ion 74.00 (73.70 to 74.70): VN057231.D (-663) (-)

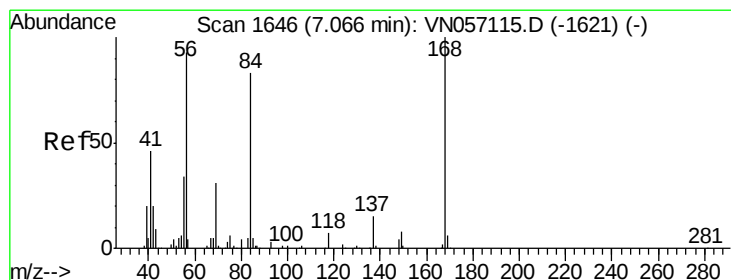
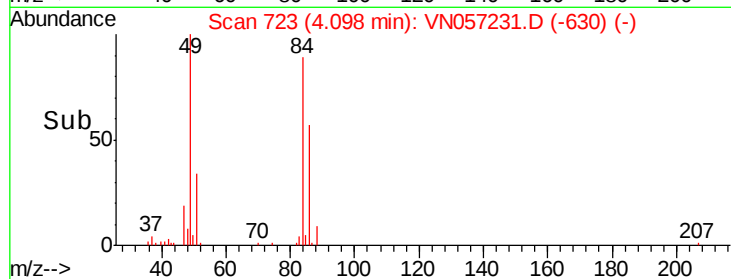
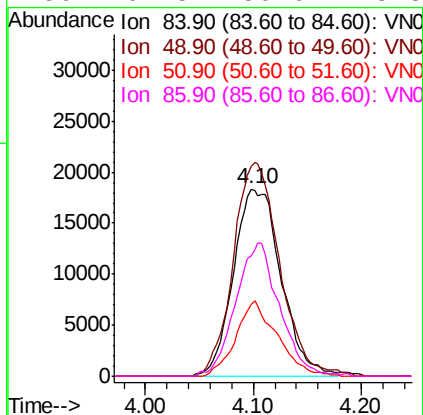
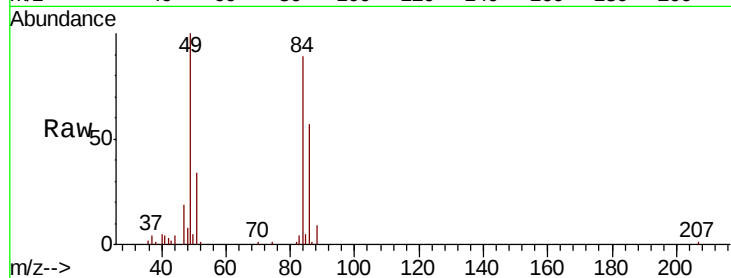




#20
Methylene Chloride
Concen: 4.171 ug/l
RT: 4.10 min Scan# 723
Delta R.T. -0.00 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

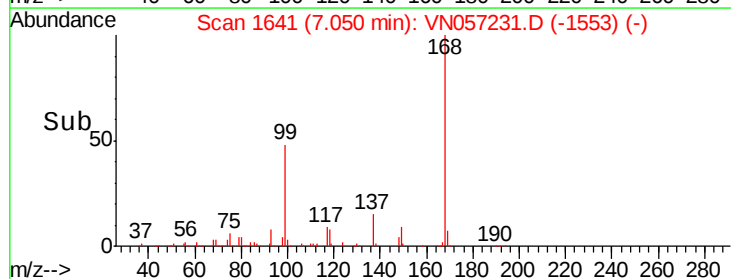
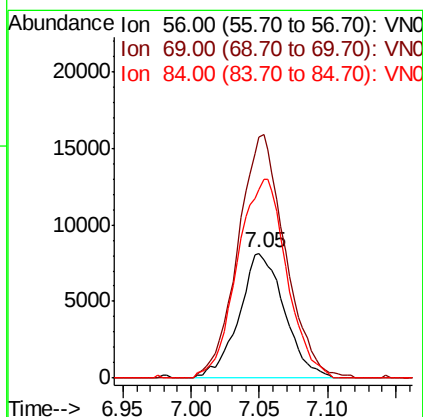
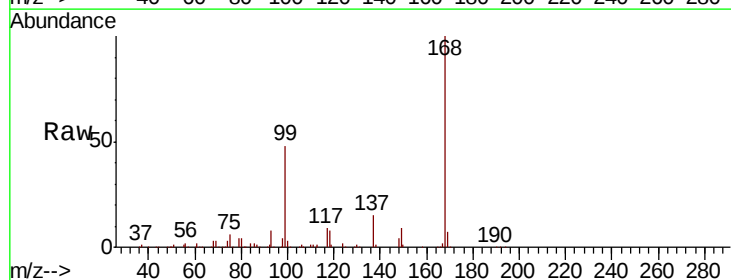
Instrument :
MSVOA_N
ClientSampleId :
2S-A2-(0)

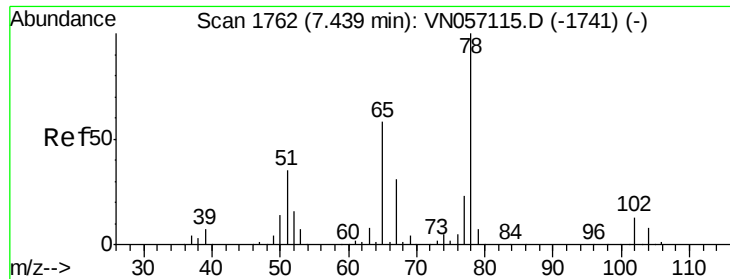
Tgt Ion:	84	Resp:	56252
Ion	Ratio	Lower	Upper
84	100		
49	112.2	89.5	134.3
51	38.2	27.2	40.8
86	64.5	50.6	75.8



#31
Cyclohexane
Concen: 0.958 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

Tgt Ion:	56	Resp:	18801
Ion	Ratio	Lower	Upper
56	100		
69	193.0	26.9	40.3#
84	151.2	71.9	107.9#

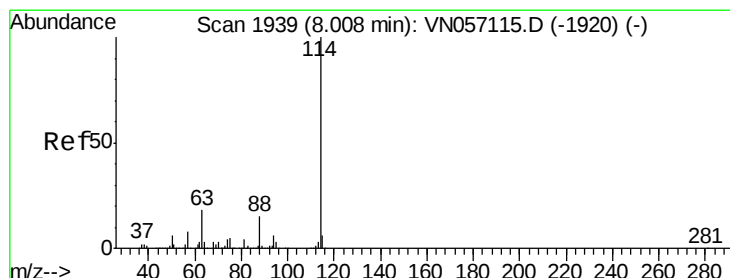
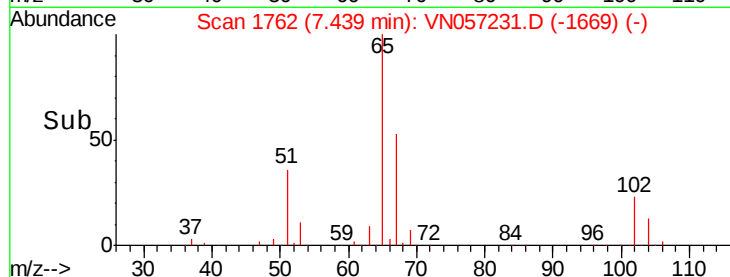
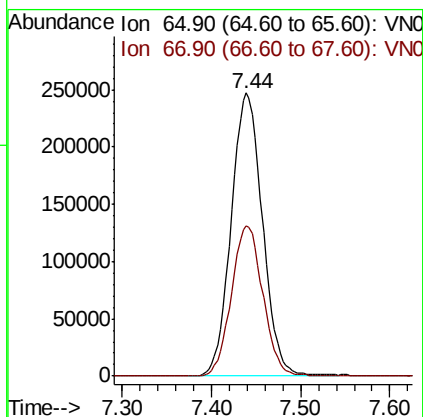
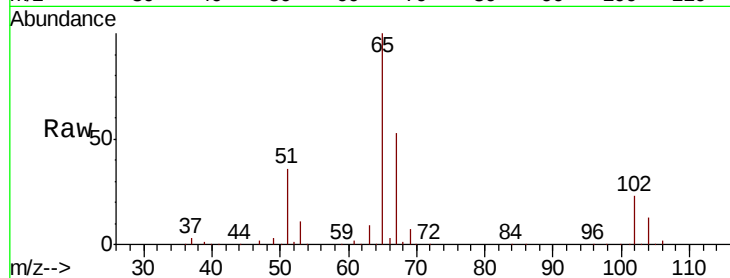




#33
 1,2-Dichloroethane-d4
 Concen: 44.536 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

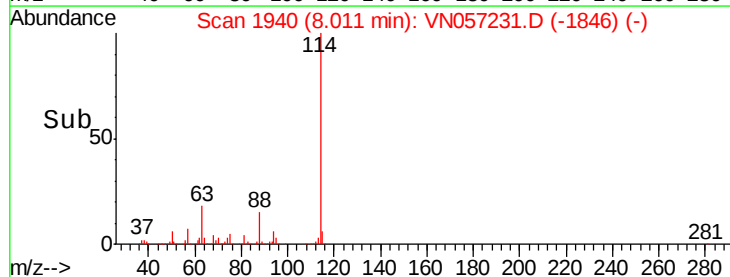
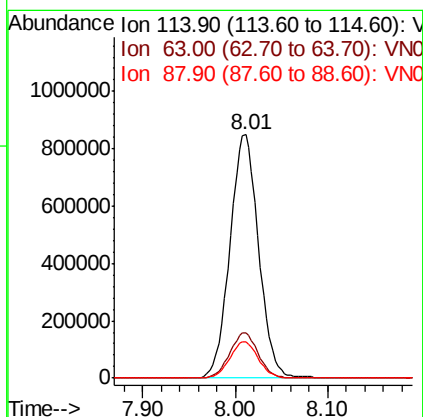
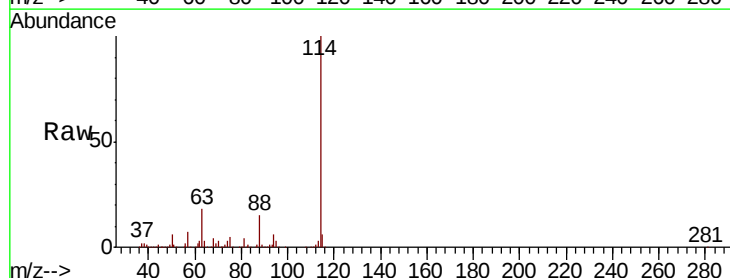
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A2-(0)

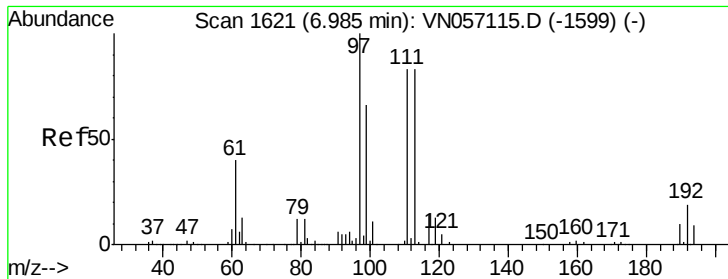
Tgt Ion: 65 Resp: 602655
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion: 114 Resp: 1821644
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.2
 88 14.9 0.0 30.0

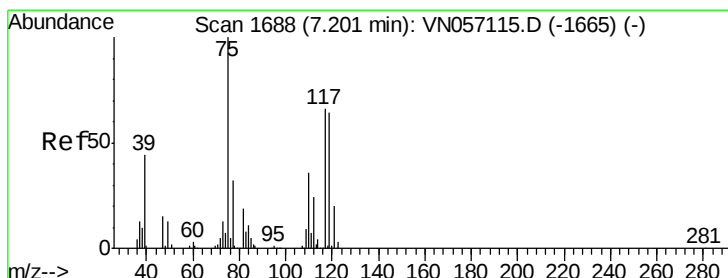
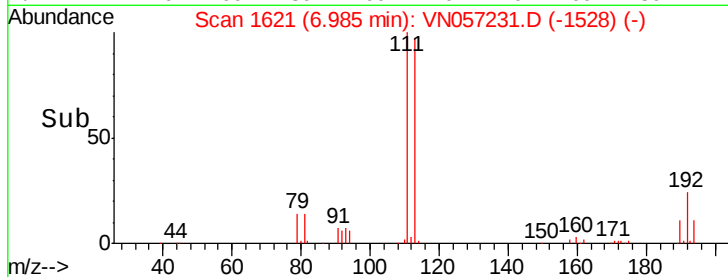
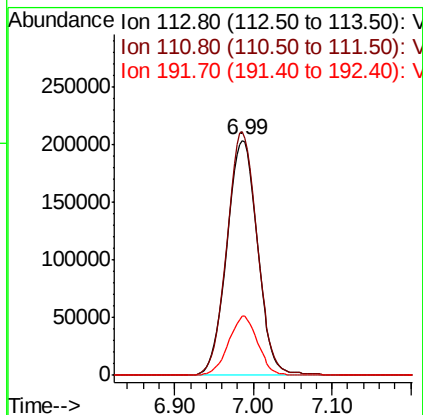
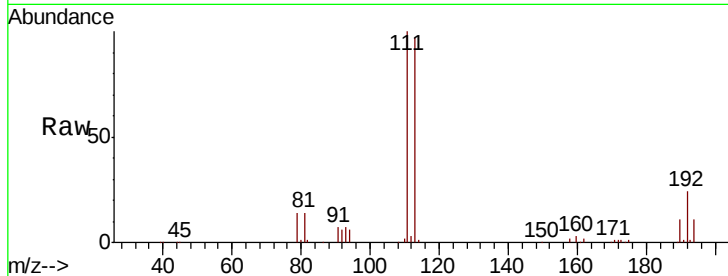




#35
 Dibromofluoromethane
 Concen: 48.300 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

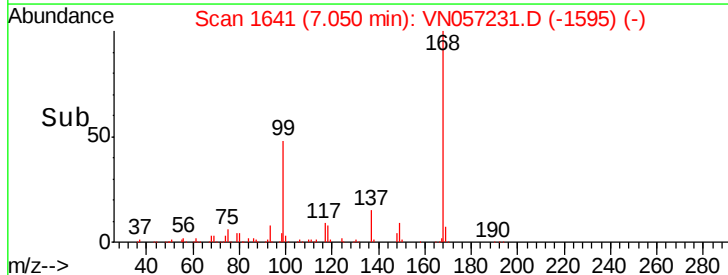
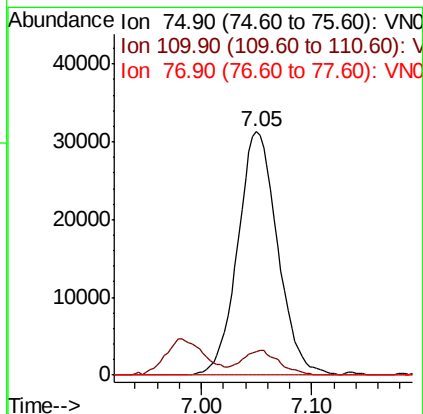
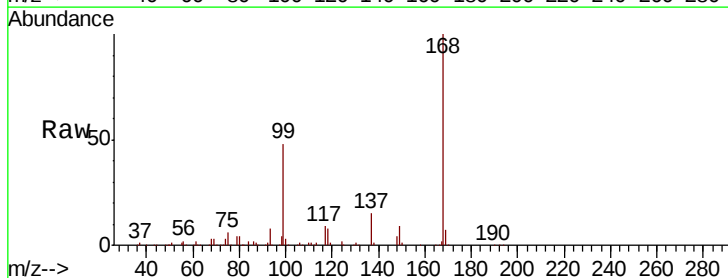
Instrument :
 MSVOA_N
 ClientSampled :
 2S-A2-(0)

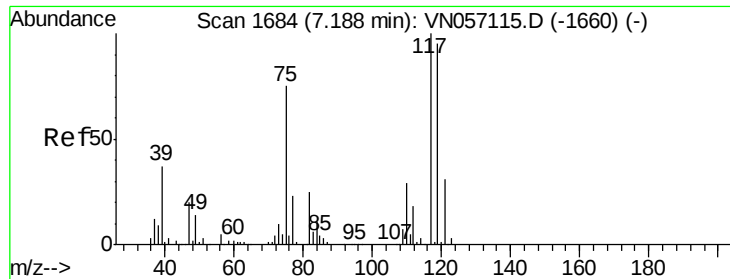
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.3	121.9
192	23.9	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 5.217 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.7	56.1#
77	0.0	25.0	37.4#

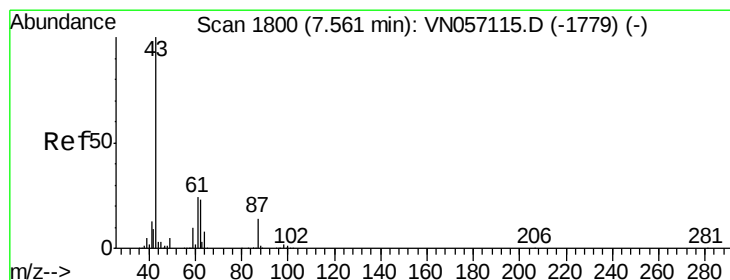
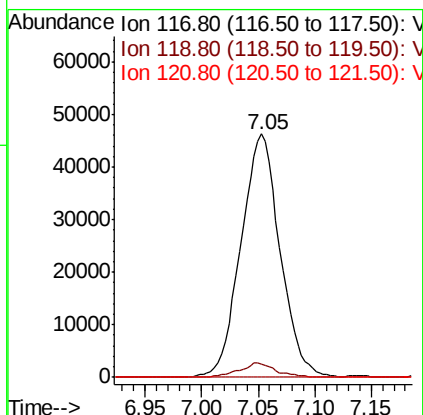
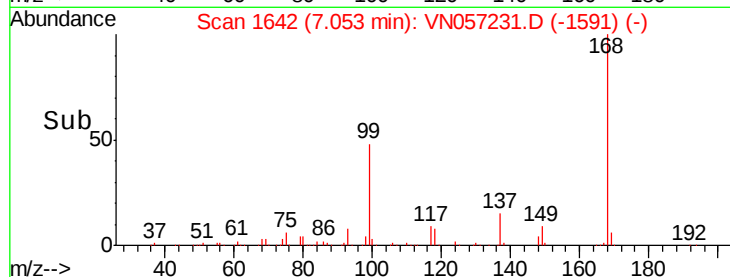
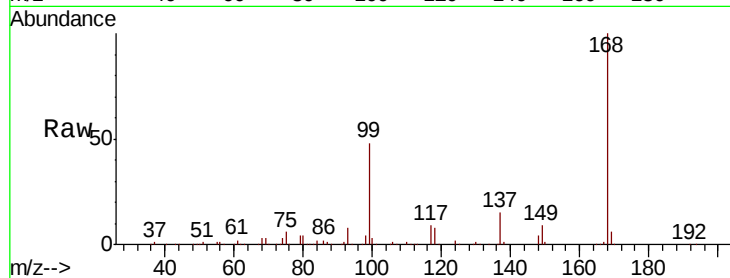




#38
Carbon Tetrachloride
Concen: 7.107 ug/l
RT: 7.05 min Scan# 1642
Delta R.T. -0.14 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

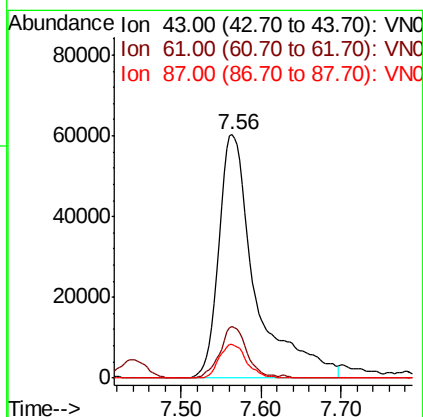
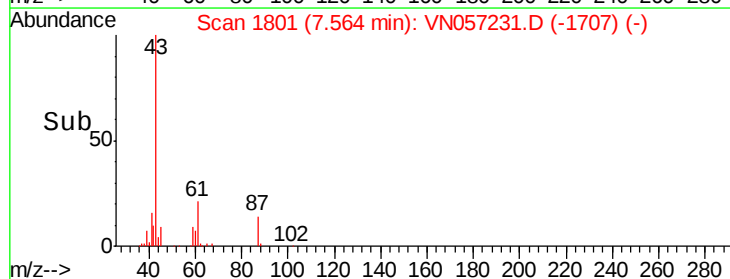
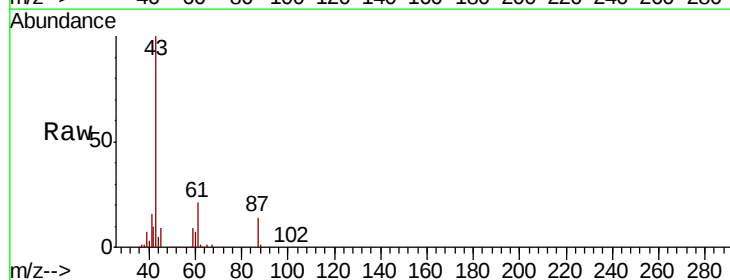
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2S-A2-(0)

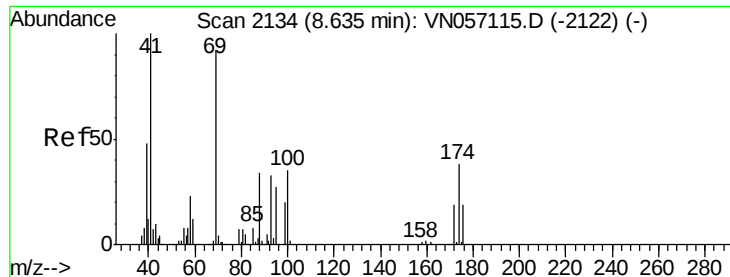
Tgt Ion: 117 Resp: 111097
Ion Ratio Lower Upper
117 100
119 5.3 75.8 113.6#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 9.067 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. 0.00 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

Tgt Ion: 43 Resp: 191300
Ion Ratio Lower Upper
43 100
61 15.6 24.2 36.2#
87 10.3 11.8 17.8#

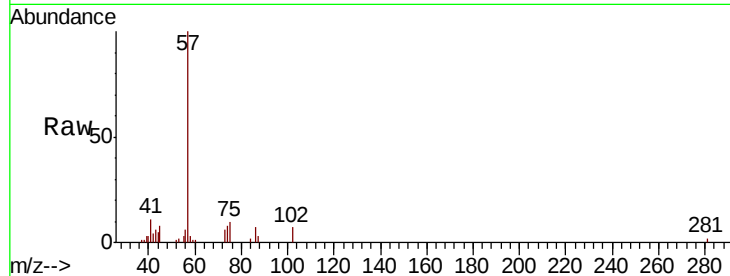




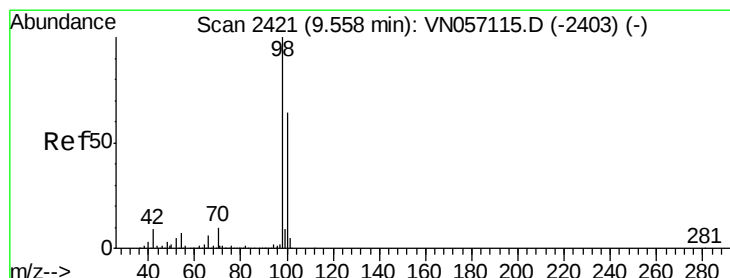
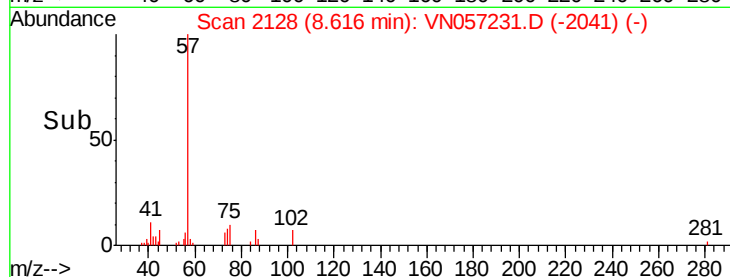
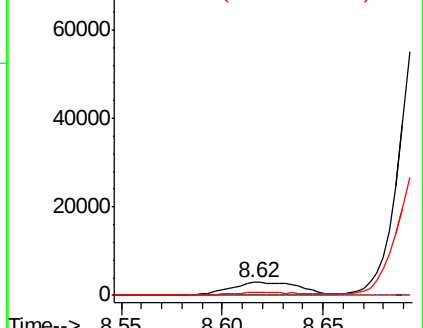
#48
Methyl methacrylate
Concen: 0.713 ug/l
RT: 8.62 min Scan# 2128
Delta R.T. -0.02 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

Instrument :
MSVOA_N
ClientSampleId :
2S-A2-(0)

Tgt Ion: 41 Resp: 7098
Ion Ratio Lower Upper
41 100
69 0.0 77.5 116.3#
39 0.0 39.8 59.6#

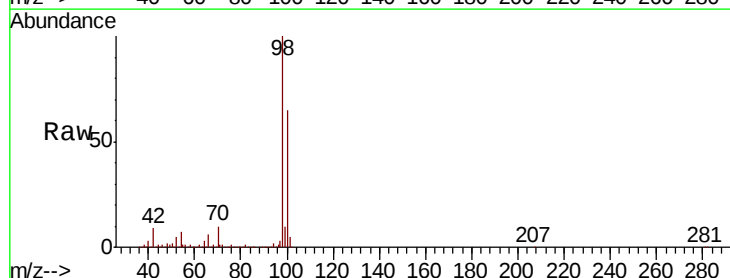


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

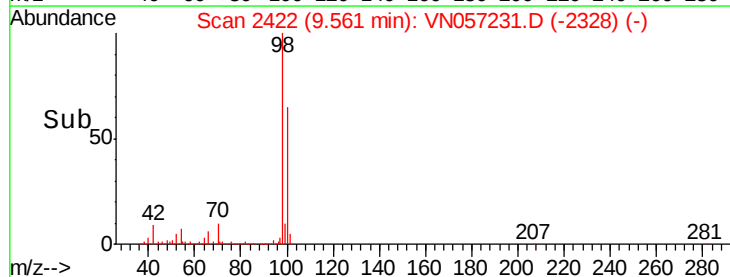
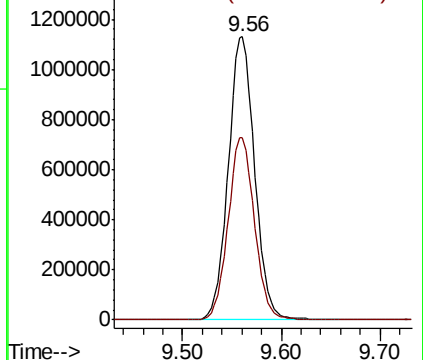


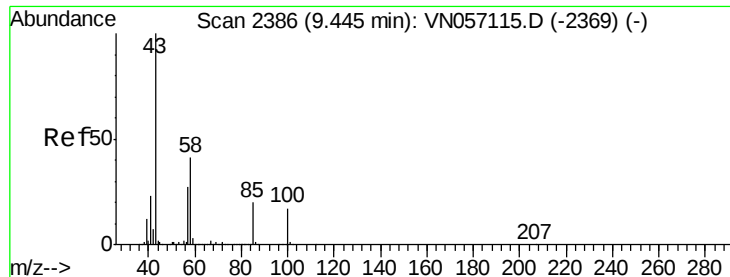
#50
Toluene-d8
Concen: 48.348 ug/l
RT: 9.56 min Scan# 2422
Delta R.T. 0.00 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

Tgt Ion: 98 Resp: 2114436
Ion Ratio Lower Upper
98 100
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

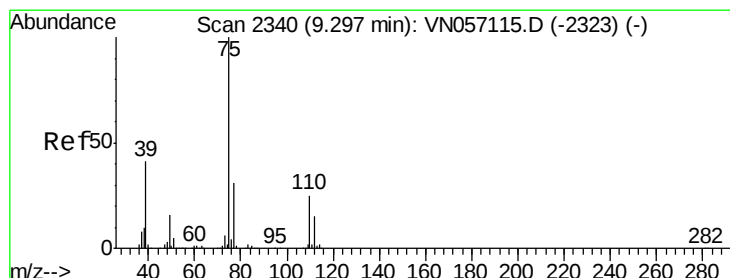
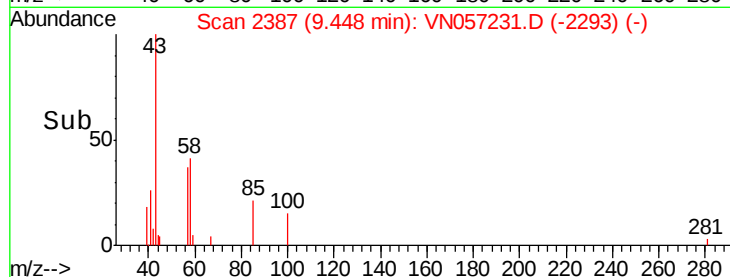
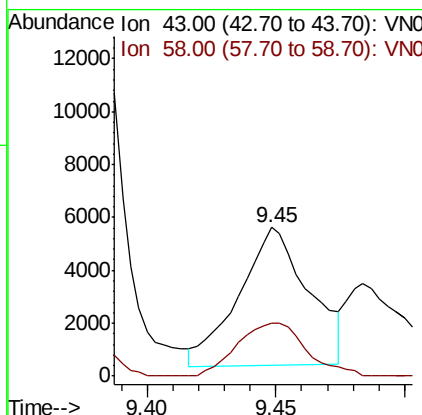
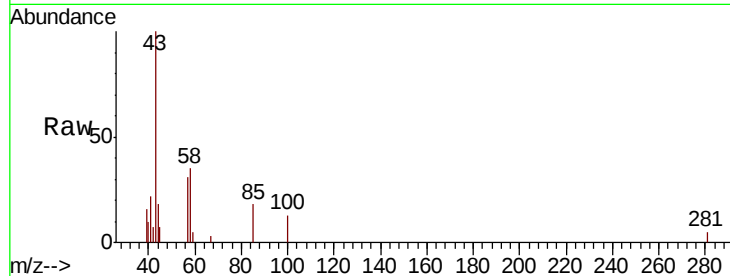




#51
 4-Methyl-2-Pentanone
 Concen: 0.802 ug/l
 RT: 9.45 min Scan# 2387
 Delta R.T. 0.00 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

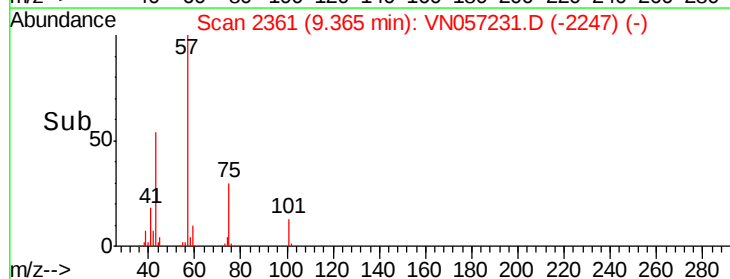
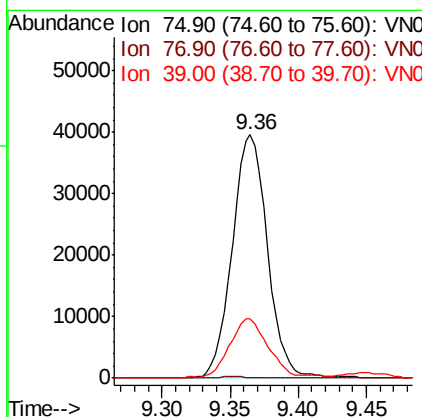
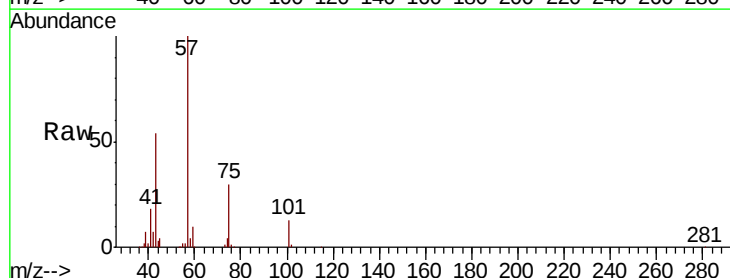
Instrument :
 MSVOA_N
 ClientSampled :
 2S-A2-(0)

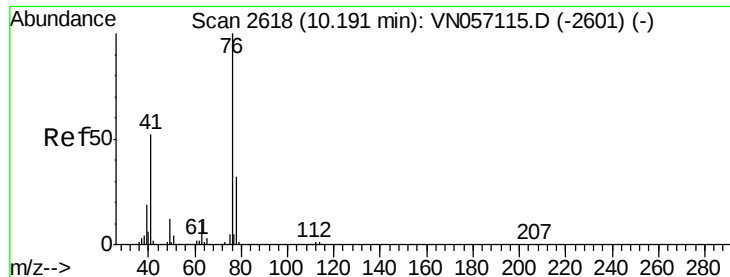
Tgt Ion: 43 Resp: 9843
 Ion Ratio Lower Upper
 43 100
 58 38.1 33.2 49.8



#54
 cis-1,3-Dichloropropene
 Concen: 3.871 ug/l
 RT: 9.36 min Scan# 2361
 Delta R.T. 0.07 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion: 75 Resp: 70773
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.1 37.7#
 39 23.6 32.5 48.7#

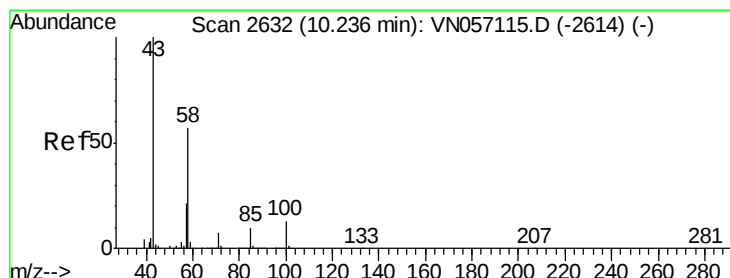
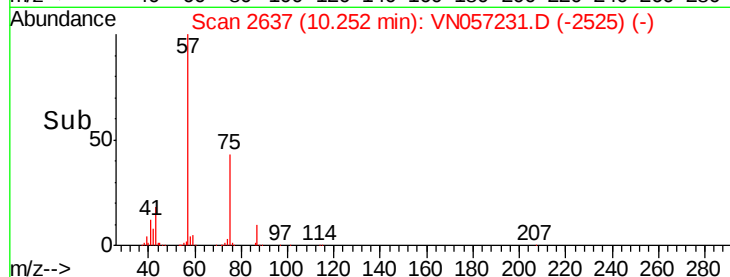
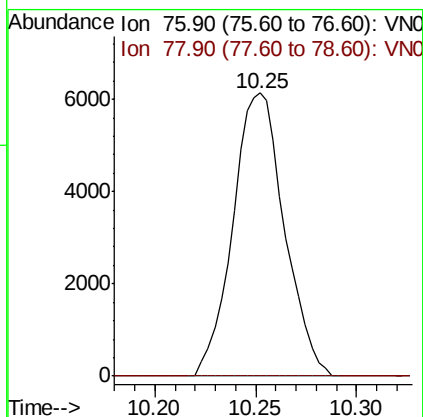
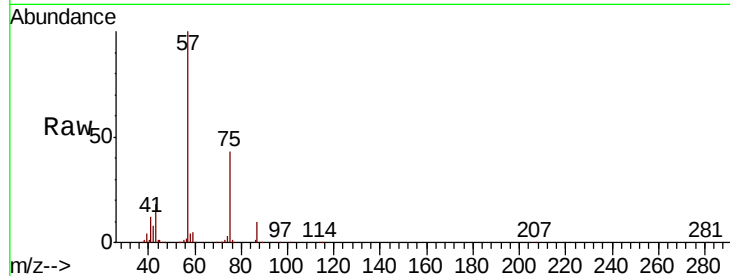




#57
 1,3-Dichloropropane
 Concen: 0.572 ug/l
 RT: 10.25 min Scan# 2637
 Delta R.T. 0.06 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

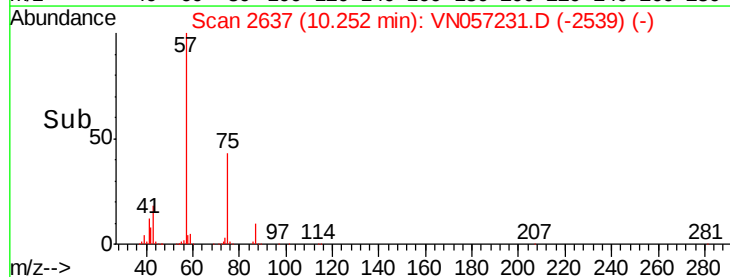
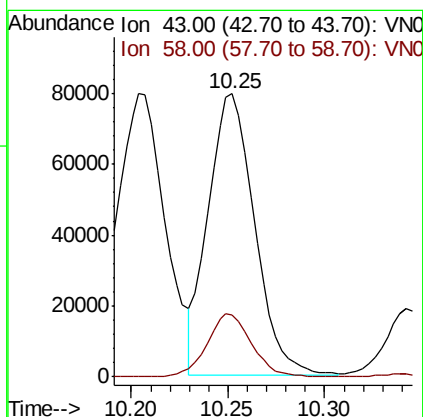
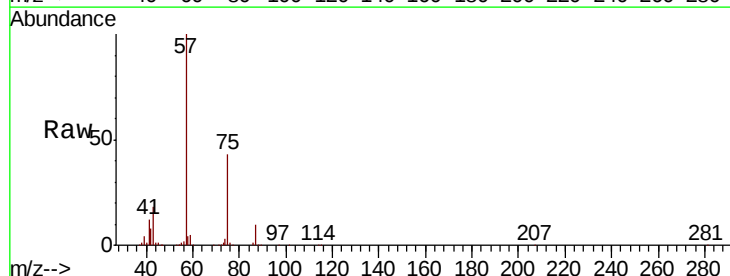
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A2-(0)

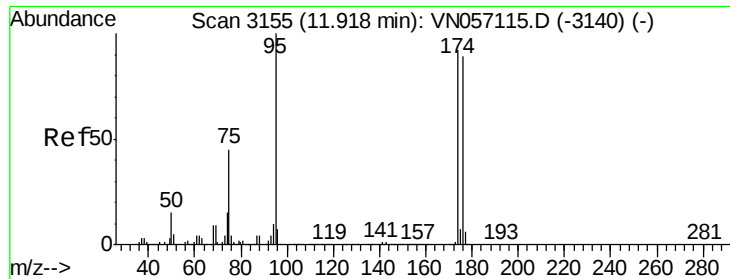
Tgt Ion: 76 Resp: 10935
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 16.008 ug/l
 RT: 10.25 min Scan# 2637
 Delta R.T. 0.02 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion: 43 Resp: 133040
 Ion Ratio Lower Upper
 43 100
 58 21.6 29.2 87.6#

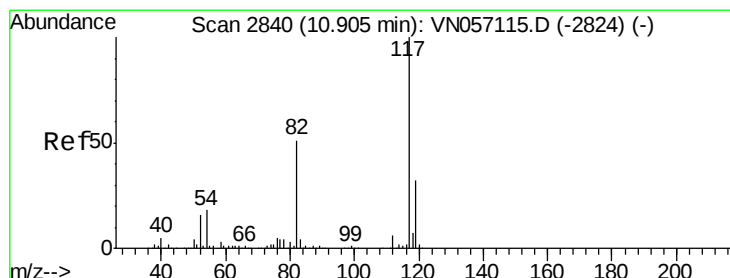
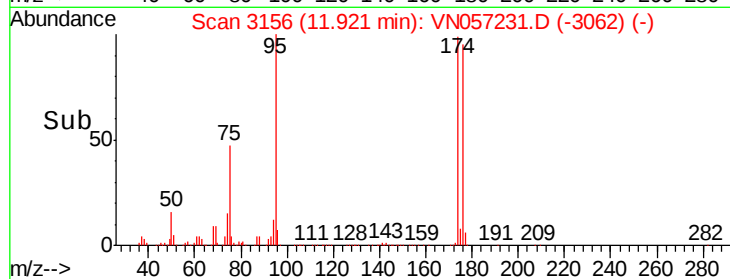
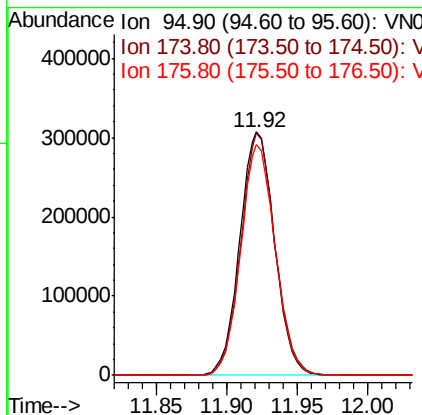
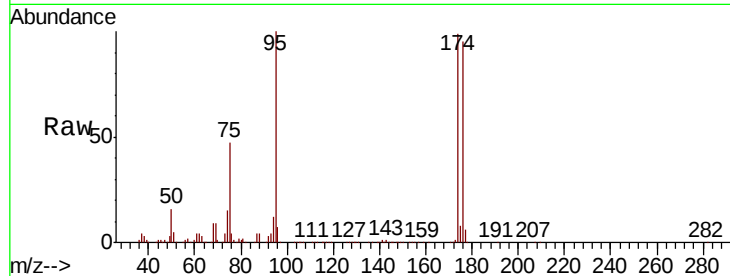




#62
4-Bromofluorobenzene
Concen: 37.634 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

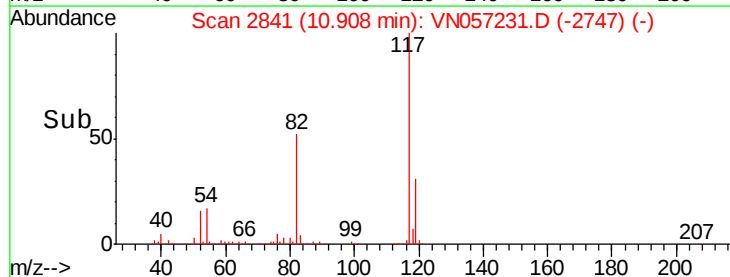
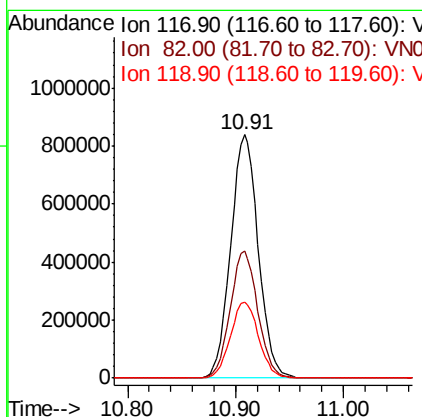
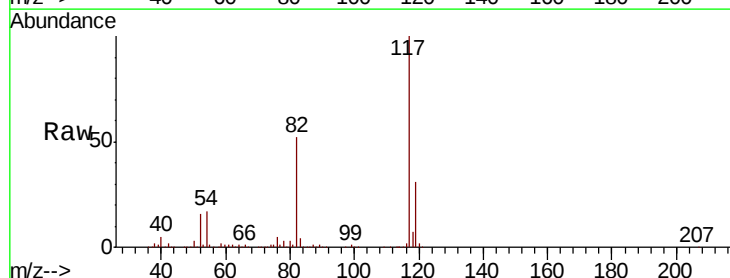
Instrument :
MSVOA_N
ClientSampleId :
2S-A2-(0)

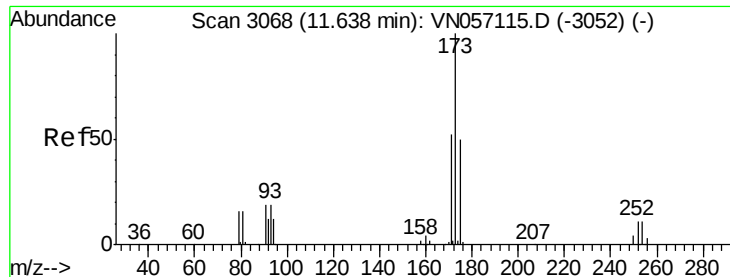
Tgt Ion: 95 Resp: 530314
Ion Ratio Lower Upper
95 100
174 97.9 0.0 185.0
176 93.8 0.0 181.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057231.D
Acq: 12 Aug 2019 21:42

Tgt Ion: 117 Resp: 1495956
Ion Ratio Lower Upper
117 100
82 52.1 40.8 61.2
119 31.4 25.7 38.5





#71

Bromoform

Concen: 0.455 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.28 min

Lab File: VN057231.D

Acq: 12 Aug 2019 21:42

Instrument :

MSVOA_N

ClientSampleId :

2S-A2-(0)

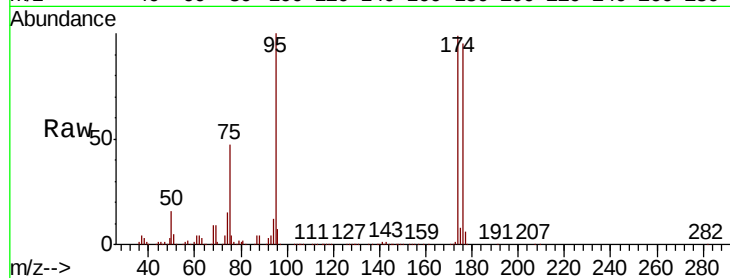
Tgt Ion:173 Resp: 3747

Ion Ratio Lower Upper

173 100

175 677.9 24.6 73.8#

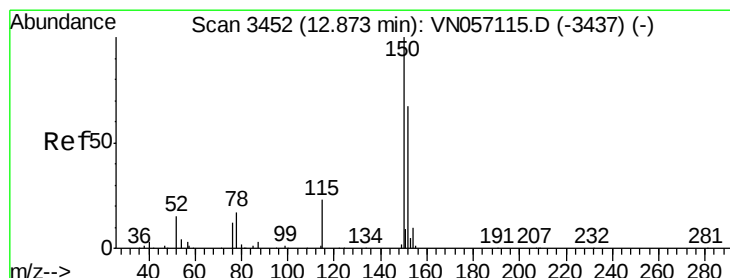
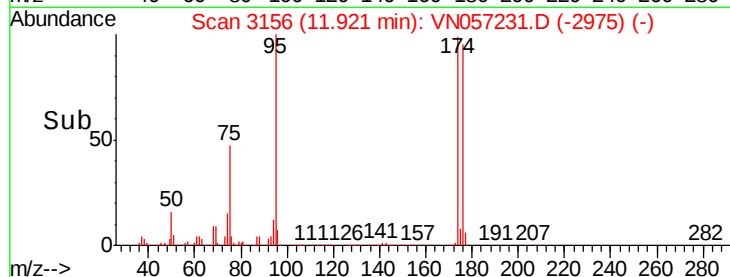
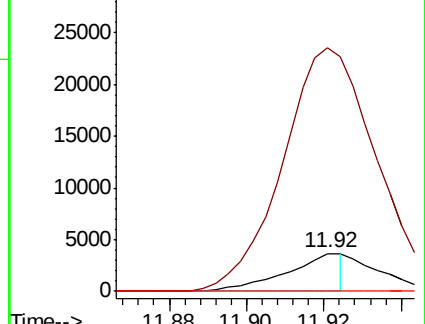
254 0.0 0.1 0.1#



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: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057231.D

Acq: 12 Aug 2019 21:42

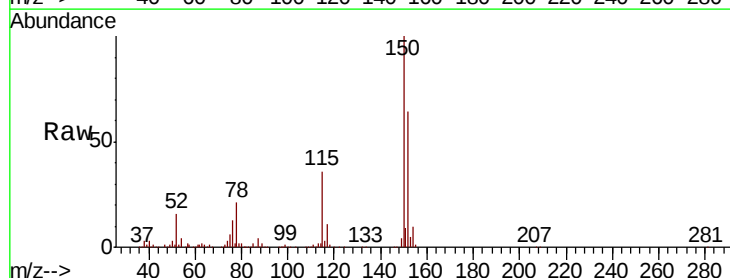
Tgt Ion:152 Resp: 358305

Ion Ratio Lower Upper

152 100

115 55.2 27.5 82.5

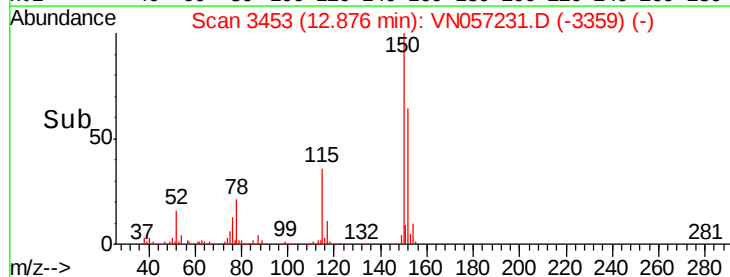
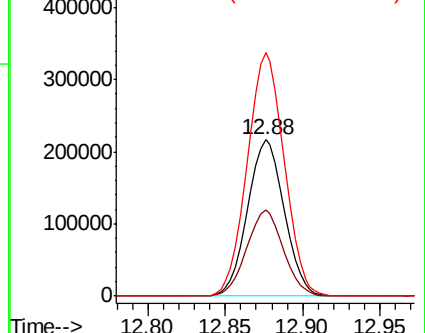
150 156.4 0.0 341.6

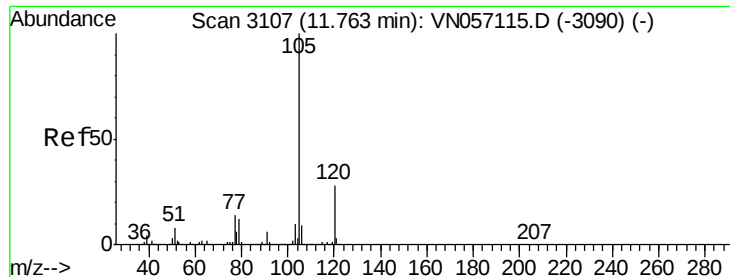


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.77 min Scan# 3109

Delta R.T. 0.01 min

Lab File: VN057231.D

Acq: 12 Aug 2019 21:42

Instrument :

MSVOA_N

ClientSampleId :

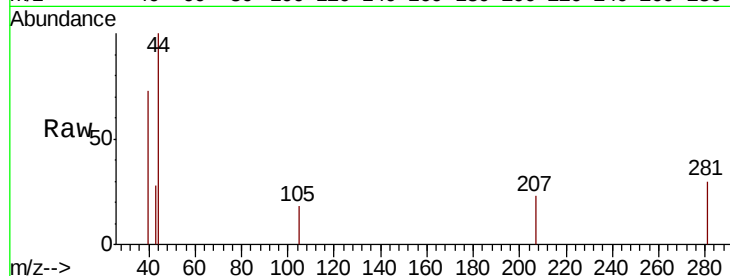
2S-A2-(0)

Tgt Ion:105 Resp: 66

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.77

150

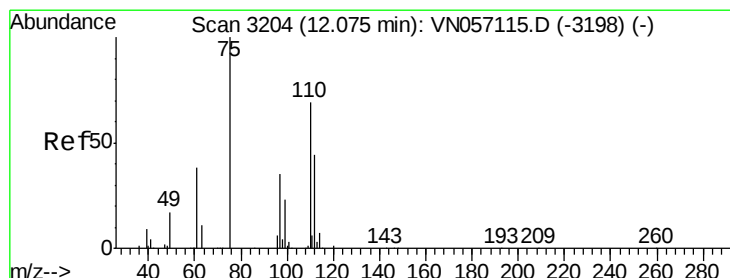
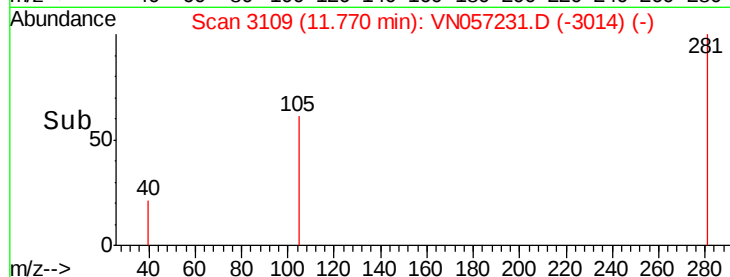
100

50

0

11.76 11.77 11.78

Time-->



#76

1,2,3-Trichloropropane

Concen: 34.547 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057231.D

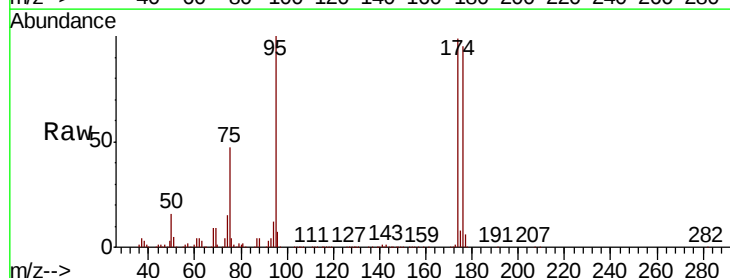
Acq: 12 Aug 2019 21:42

Tgt Ion: 75 Resp: 248005

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

11.92

150000

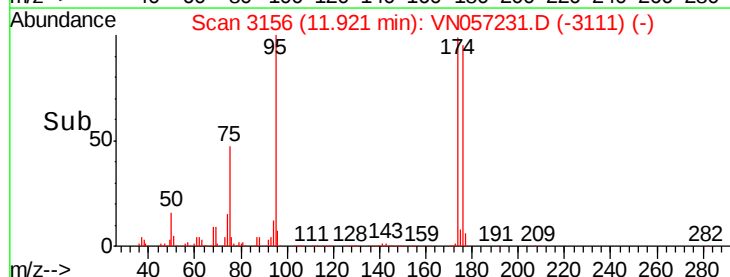
100000

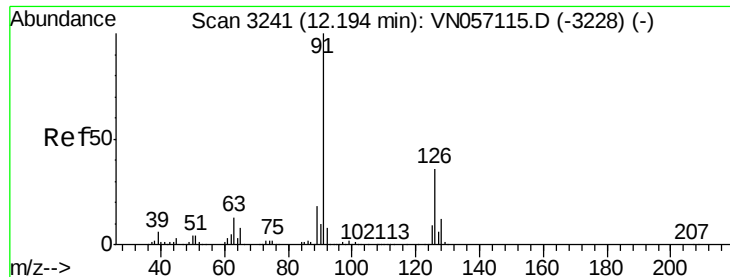
50000

0

11.85 11.90 11.95 12.00

Time-->

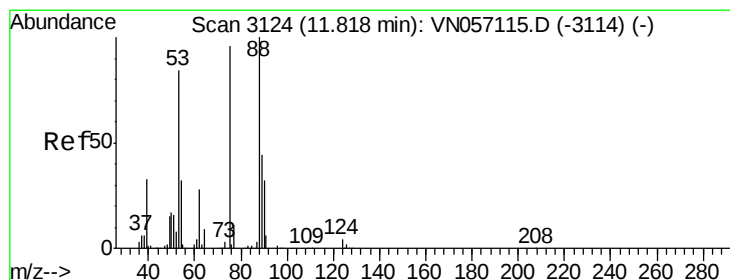
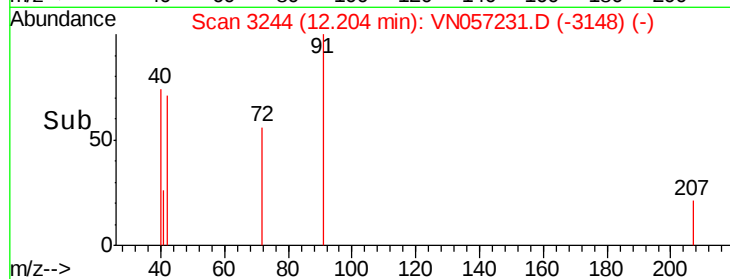
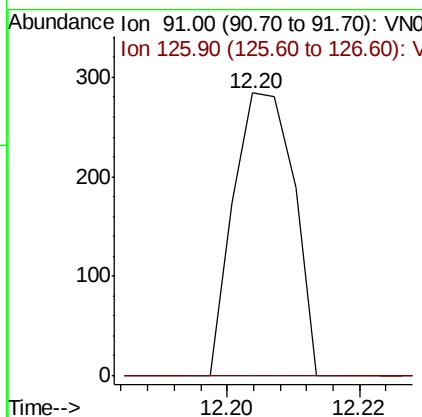
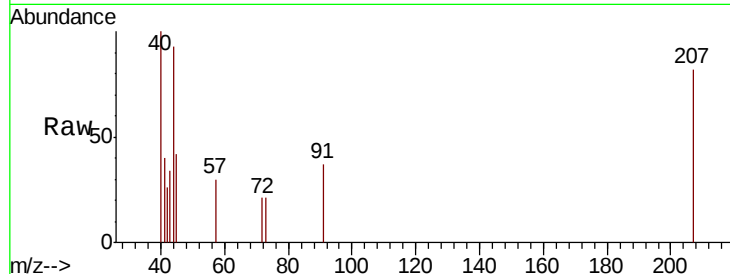




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.20 min Scan# 3244
 Delta R.T. 0.01 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

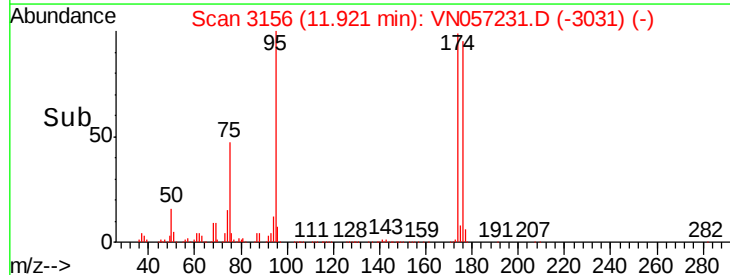
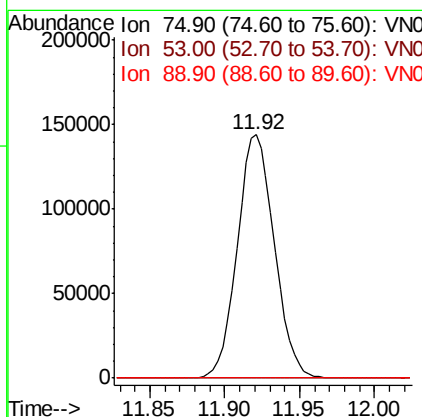
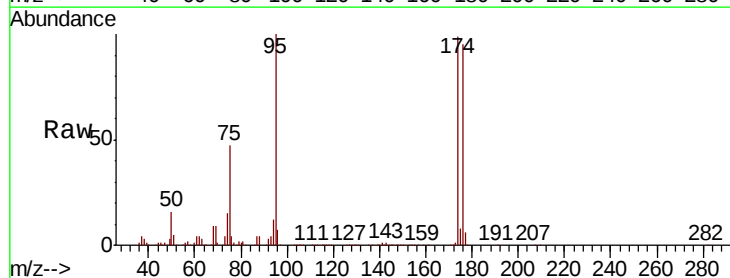
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A2-(0)

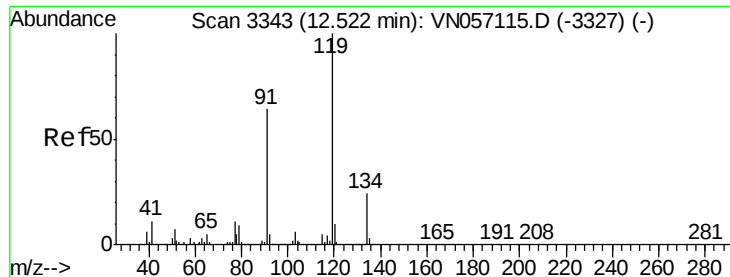
Tgt Ion: 91 Resp: 179
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.772 ug/l
 RT: 11.92 min Scan# 3156
 Delta R.T. 0.10 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion: 75 Resp: 248005
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 106.0#
 89 0.0 36.4 54.6#

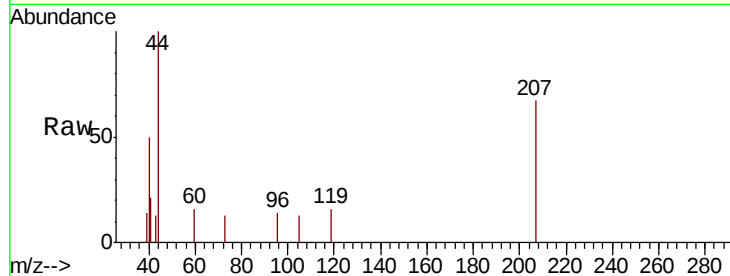




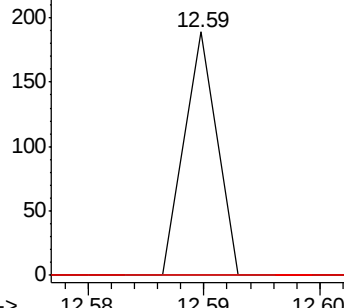
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.59 min Scan# 3364
 Delta R.T. 0.07 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-A2-(0)

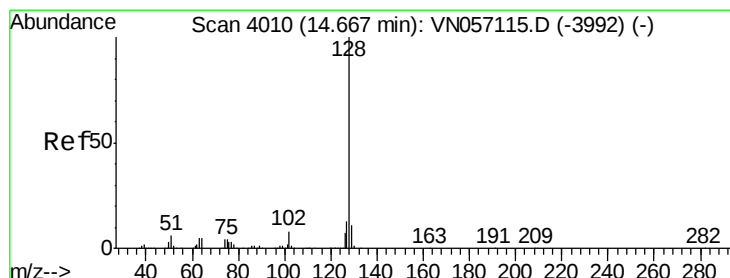
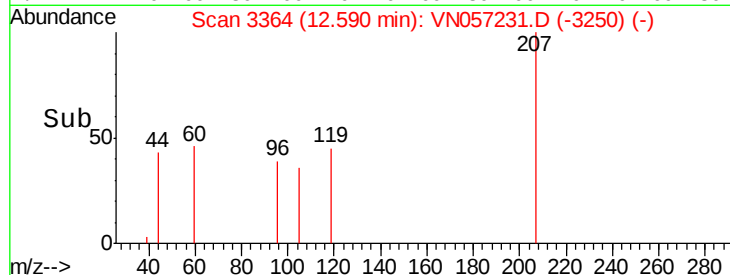
Tgt Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.4	94.2#
134	0.0	13.2	39.6#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

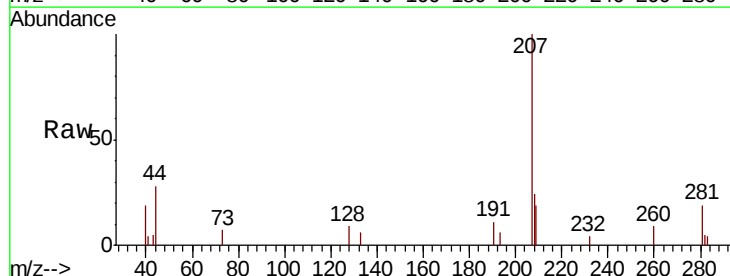


Time-->

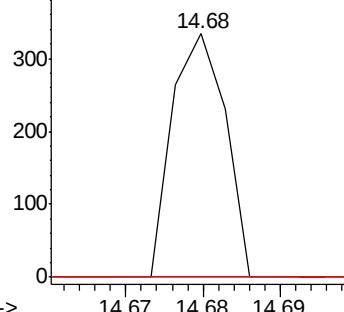


#95
 Naphthalene
 Concen: 2.819 ug/l
 RT: 14.68 min Scan# 4014
 Delta R.T. 0.01 min
 Lab File: VN057231.D
 Acq: 12 Aug 2019 21:42

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.8	13.2#



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



Time-->

