

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091318\
 Data File : VN051157.D
 Acq On : 13 Sep 2018 8:27
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/14/2018 11:46:56 AM

Quant Time: Sep 14 01:18:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	625349	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	878459	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	797239	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	422683	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	344876	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
35) Dibromofluoromethane	7.59	113	334289	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
50) Toluene-d8	10.09	98	1247247	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.40	95	426994	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	268698	44.56	ug/l	98
3) Chloromethane	2.06	50	352699	45.23	ug/l	100
4) Vinyl Chloride	2.18	62	363331	43.89	ug/l	98
5) Bromomethane	2.55	94	210658	45.00	ug/l	100
6) Chloroethane	2.70	64	222277	43.51	ug/l	98
7) Trichlorofluoromethane	3.01	101	504893	46.03	ug/l	99
8) Diethyl Ether	3.41	74	195170	48.38	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	324629	45.91	ug/l	100
10) Methyl Iodide	3.95	142	239218	37.73	ug/l	100
11) Tert butyl alcohol	4.80	59	143914	270.74	ug/l	100
12) 1,1-Dichloroethene	3.73	96	294523	44.15	ug/l	99
13) Acrolein	3.61	56	131114	206.74	ug/l	99
14) Allyl chloride	4.32	41	469529	46.20	ug/l	99
15) Acrylonitrile	4.99	53	635478	269.80	ug/l	99
16) Acetone	3.82	43	506730	295.55	ug/l	100
17) Carbon Disulfide	4.05	76	858235	43.67	ug/l	99
18) Methyl Acetate	4.33	43	299982	53.83	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	887146	50.31	ug/l	99
20) Methylene Chloride	4.55	84	348921	45.39	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	325282	44.96	ug/l	99
22) Diisopropyl ether	5.95	45	1007219	49.93	ug/l	97
23) Vinyl Acetate	5.90	43	3550526	260.07	ug/l	99
24) 1,1-Dichloroethane	5.85	63	593547	46.37	ug/l	99
25) 2-Butanone	6.84	43	753184	275.27	ug/l	99
26) 2,2-Dichloropropane	6.82	77	472829	45.13	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	365789	46.08	ug/l	100
28) Bromochloromethane	7.19	49	284034	49.86	ug/l	99
29) Tetrahydrofuran	7.21	42	474911	277.95	ug/l	99
30) Chloroform	7.37	83	604294	47.46	ug/l	100
31) Cyclohexane	7.65	56	521331	45.66	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	507805	46.80	ug/l	100
36) 1,1-Dichloropropene	7.79	75	458985	47.59	ug/l	100
37) Ethyl Acetate	6.93	43	316905	56.73	ug/l	99
38) Carbon Tetrachloride	7.77	117	454677	47.90	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	511063	48.03	ug/l	98
40) Benzene	8.04	78	1394561	47.98	ug/l	99
41) Methacrylonitrile	7.18	41	145938	50.64	ug/l	98
42) 1,2-Dichloroethane	8.13	62	419077	49.47	ug/l	99
43) Isopropyl Acetate	8.17	43	548792	55.68	ug/l	98
44) Trichloroethene	8.83	130	371537	46.74	ug/l	98
45) 1,2-Dichloropropane	9.12	63	364820	48.58	ug/l	99
46) Dibromomethane	9.21	93	226153	49.36	ug/l	100
47) Bromodichloromethane	9.40	83	463431	49.74	ug/l	99
48) Methyl methacrylate	9.20	41	267026	55.59	ug/l	99
49) 1,4-Dioxane	9.20	88	86000	1141.82	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1572227	288.46	ug/l	100
52) Toluene	10.16	92	875292	49.39	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	474891	50.93	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	541780	49.55	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	328654	51.05	ug/l	100
56) Ethyl methacrylate	10.43	69	436729	50.53	ug/l	99
57) 1,3-Dichloropropane	10.71	76	546105	51.17	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	892612	246.05	ug/l	100
59) 2-Hexanone	10.75	43	1084587	293.42	ug/l	99
60) Dibromochloromethane	10.90	129	372733	51.37	ug/l	99
61) 1,2-Dibromoethane	11.01	107	328190	52.15	ug/l	99
64) Tetrachloroethene	10.63	164	347864	47.82	ug/l	99
65) Chlorobenzene	11.43	112	964833	48.01	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	356962	49.34	ug/l	100
67) Ethyl Benzene	11.51	91	1639600	50.38	ug/l	100
68) m/p-Xylenes	11.62	106	1279118	102.29	ug/l	99
69) o-Xylene	11.95	106	611459	50.50	ug/l	98
70) Styrene	11.96	104	1015293	54.05	ug/l	99
71) Bromoform	12.13	173	275439	54.07	ug/l	# 100
73) Isopropylbenzene	12.25	105	1640372	46.28	ug/l	100
74) N-amyl acetate	12.07	43	456331	51.15	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	440803	54.34	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	346806m	53.01	ug/l	
77) Bromobenzene	12.53	156	427577	44.91	ug/l	99
78) n-propylbenzene	12.59	91	1852793	47.55	ug/l	99
79) 2-Chlorotoluene	12.67	91	1105444	45.39	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1363386	47.57	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	112741	50.66	ug/l	99
82) 4-Chlorotoluene	12.77	91	1120857	46.37	ug/l	100
83) tert-Butylbenzene	12.99	119	1154964	45.65	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1377202	48.87	ug/l	100
85) sec-Butylbenzene	13.17	105	1548038	47.71	ug/l	99
86) p-Isopropyltoluene	13.29	119	1364112	49.58	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	743537	46.03	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	723177	48.76	ug/l	99
89) n-Butylbenzene	13.62	91	1068071	49.88	ug/l	100
90) Hexachloroethane	13.87	117	236935	47.27	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	726026	46.13	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64593	53.31	ug/l	100

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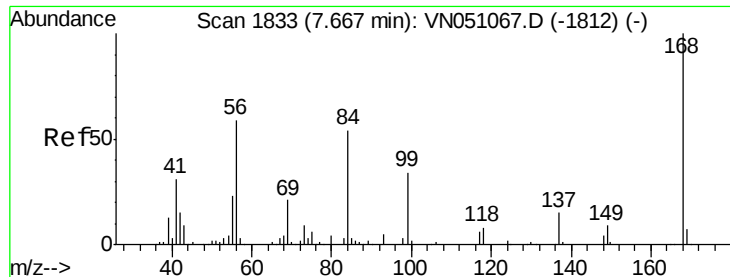
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	337362	44.80	ug/l	99
94) Hexachlorobutadiene	15.01	225	232276	50.66	ug/l	99
95) Naphthalene	15.13	128	709300	45.20	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	337208	46.62	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 625349

Ion Ratio Lower Upper

168 100

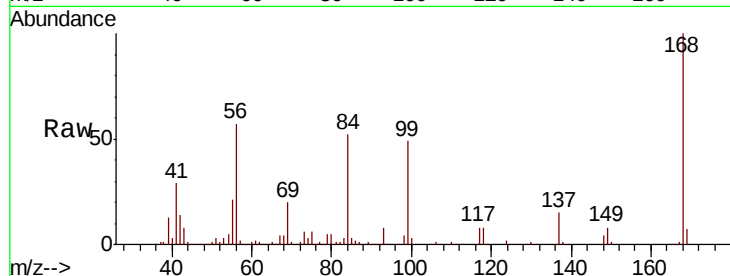
99 48.3 38.3 57.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

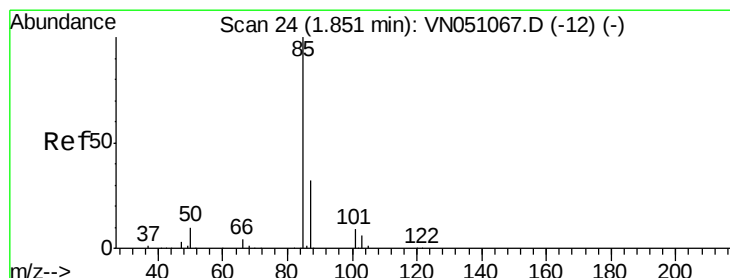
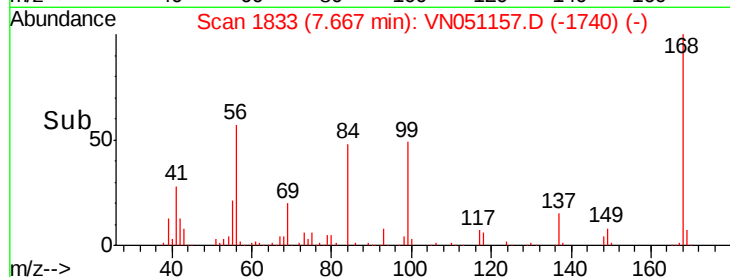
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 44.56 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051157.D

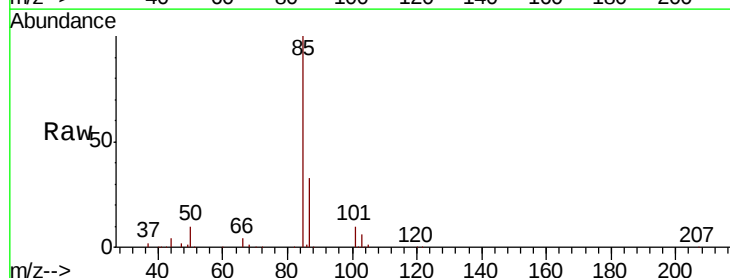
Acq: 13 Sep 2018 8:27

Tgt Ion: 85 Resp: 268698

Ion Ratio Lower Upper

85 100

87 32.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200000

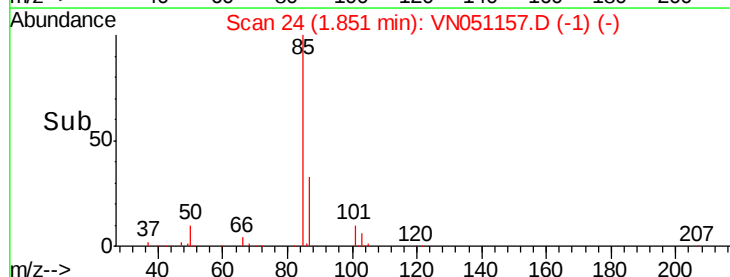
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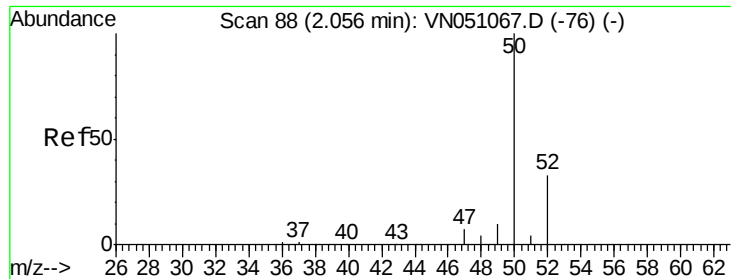
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50000

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Time-->





#3

Chloromethane

Concen: 45.23 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 352699

Ion Ratio Lower Upper

50 100

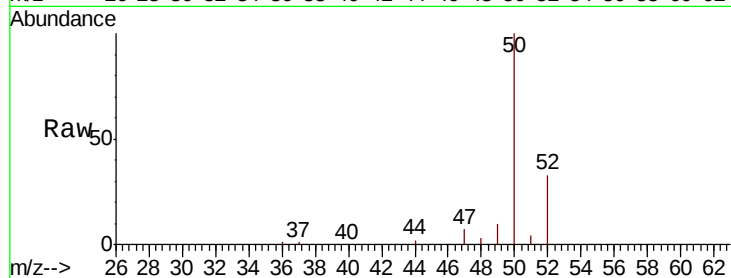
52 32.8 26.0 39.0

Manual Integrations

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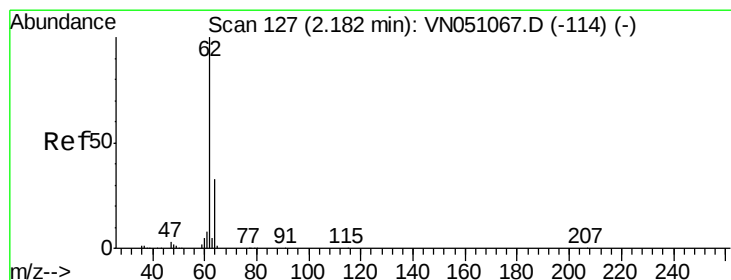
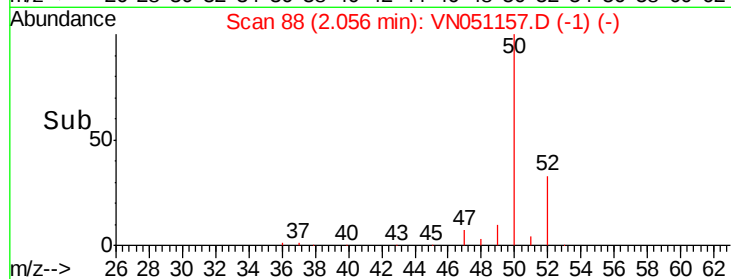
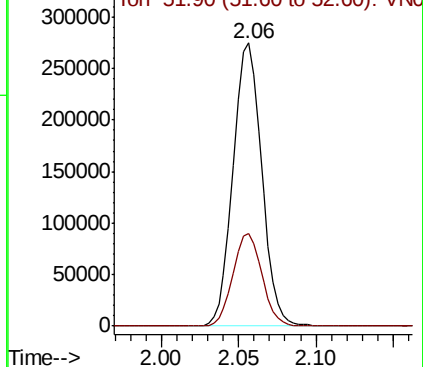
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 43.89 ug/l

RT: 2.18 min Scan# 126

Delta R.T. -0.00 min

Lab File: VN051157.D

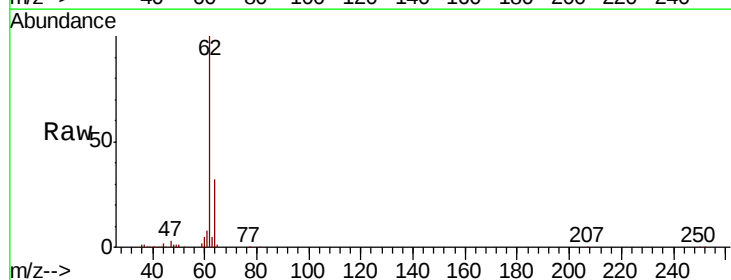
Acq: 13 Sep 2018 8:27

Tgt Ion: 62 Resp: 363331

Ion Ratio Lower Upper

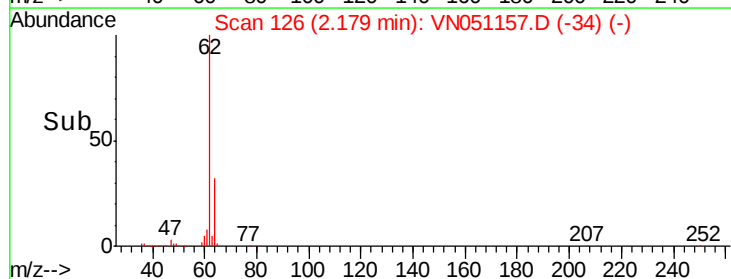
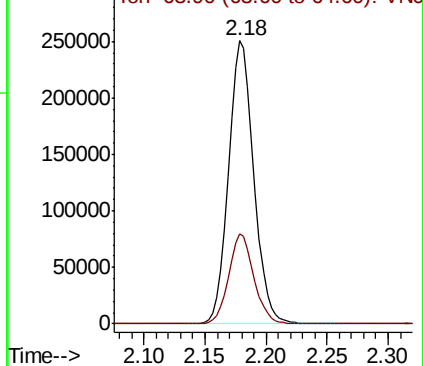
62 100

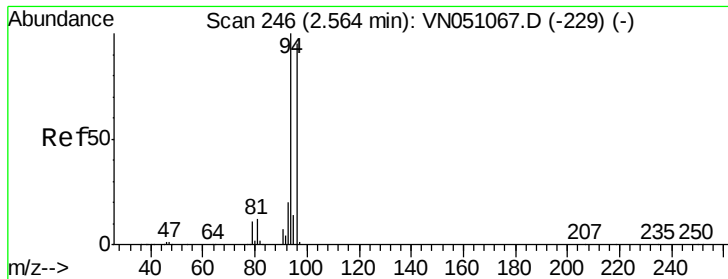
64 31.8 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 45.00 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.01 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion: 94 Resp: 210658

Ion Ratio Lower Upper

94 100

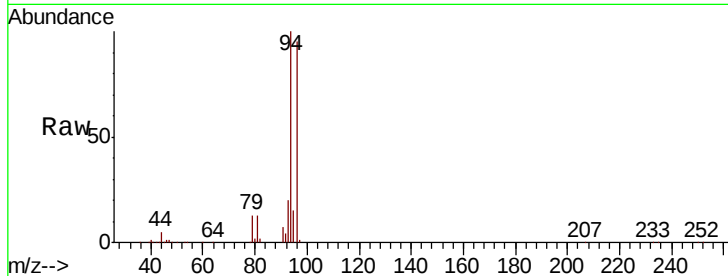
96 95.1 75.9 113.9

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

120000

100000

80000

60000

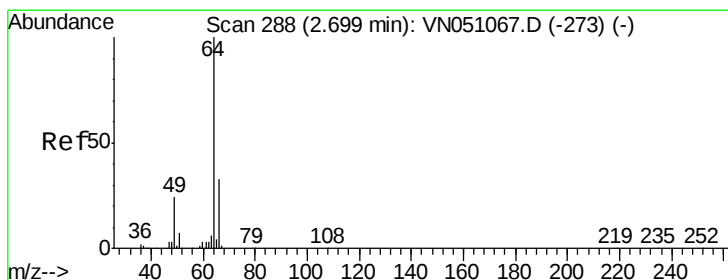
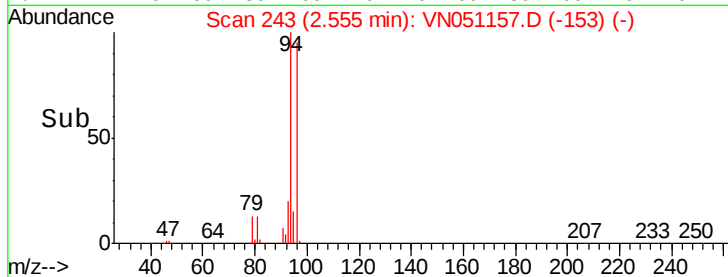
40000

20000

0

2.55

Time-->



#6

Chloroethane

Concen: 43.51 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.00 min

Lab File: VN051157.D

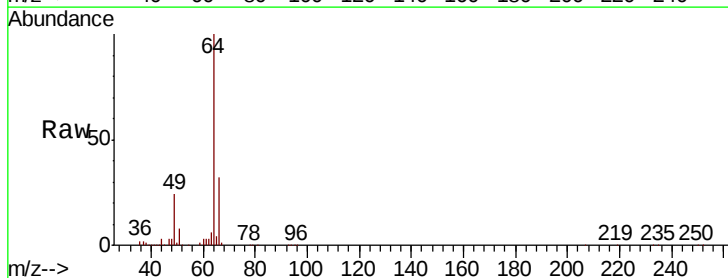
Acq: 13 Sep 2018 8:27

Tgt Ion: 64 Resp: 222277

Ion Ratio Lower Upper

64 100

66 31.7 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

120000

100000

80000

60000

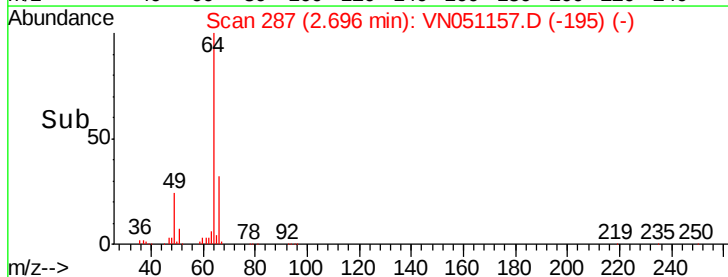
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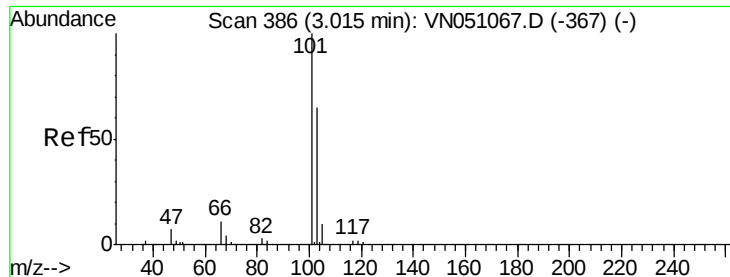
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0

2.70

Time-->





#7

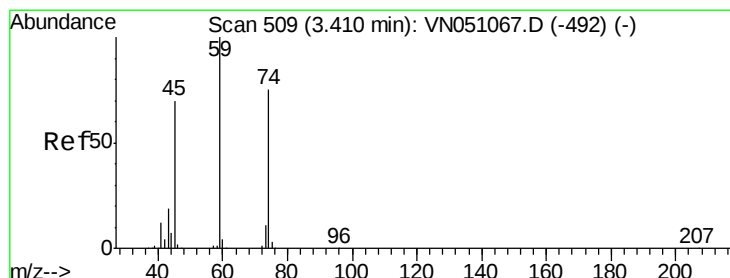
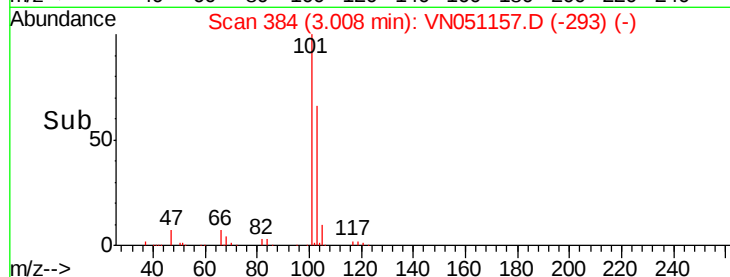
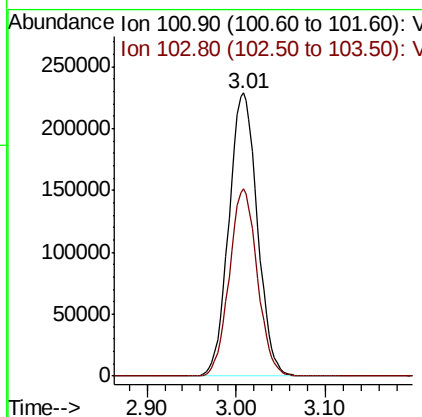
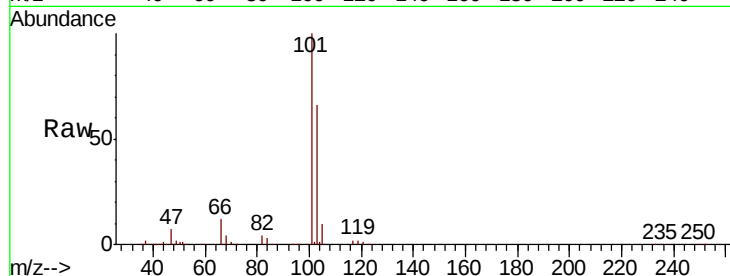
Trichlorofluoromethane
 Concen: 46.03 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.01 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.4	78.6

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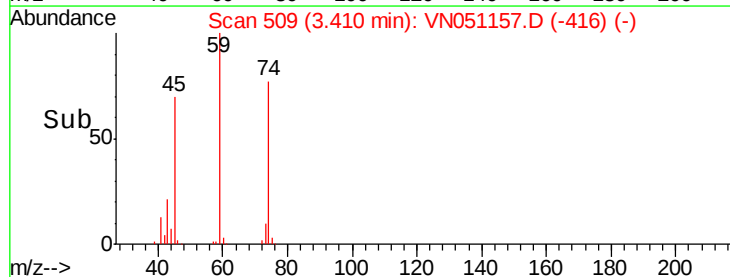
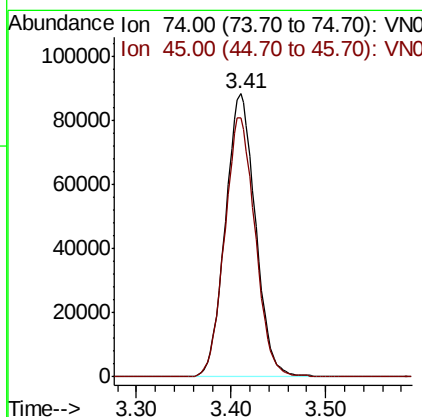
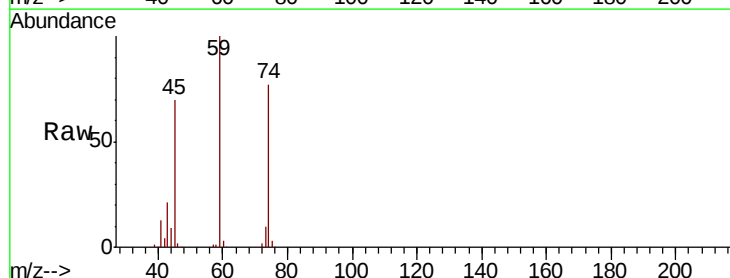
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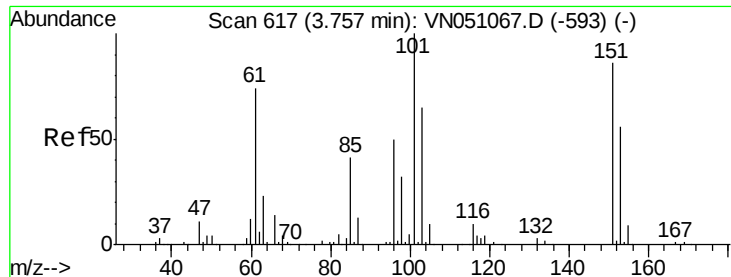


#8

Diethyl Ether
 Concen: 48.38 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.0	46.7	140.0





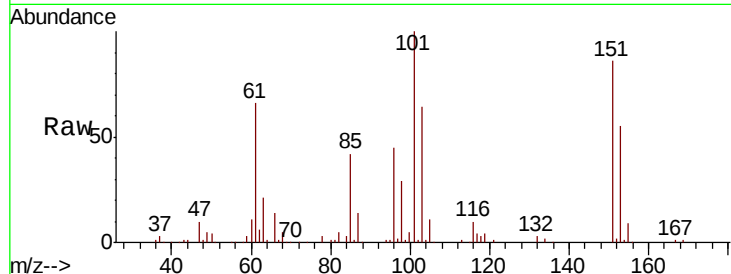
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 45.91 ug/l
 RT: 3.75 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	324629		
85	41.4	33.3	49.9	
151	85.7	68.2	102.2	

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 9/14/2018 11:46:56 AM

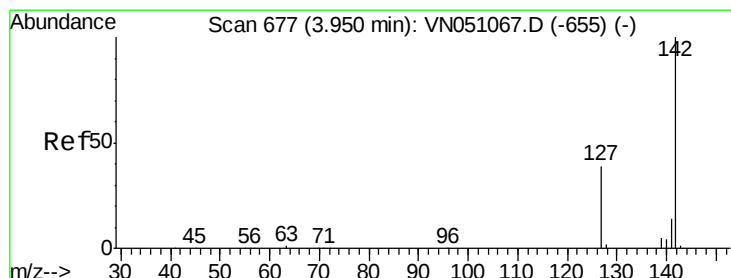
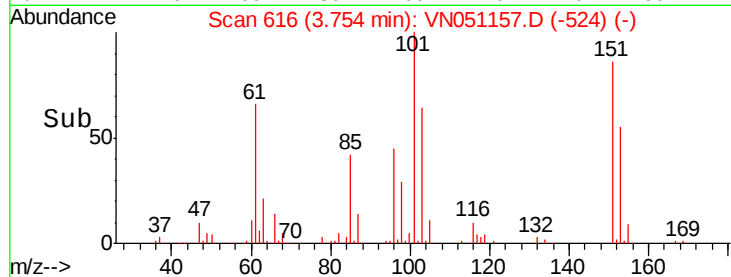
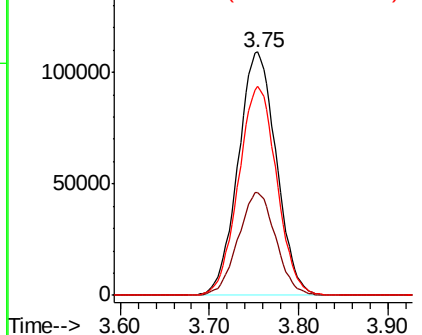


Abundance

Ion 100.90 (100.60 to 101.60): V

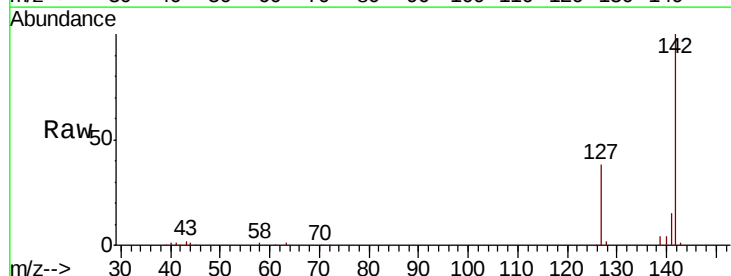
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10
 Methyl Iodide
 Concen: 37.73 ug/l
 RT: 3.95 min Scan# 676
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	239218		
127	38.7	31.0	46.4	
141	14.1	11.3	16.9	

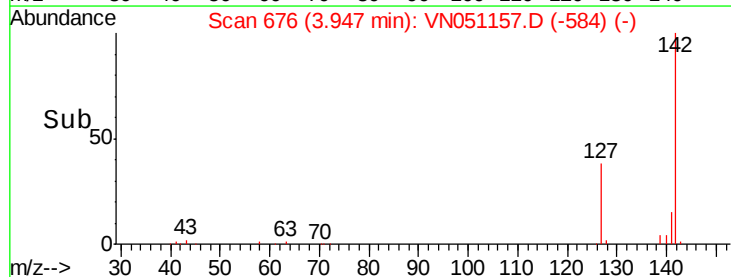
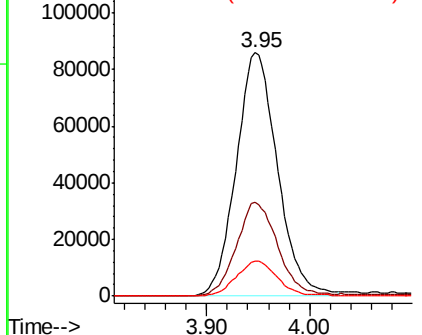


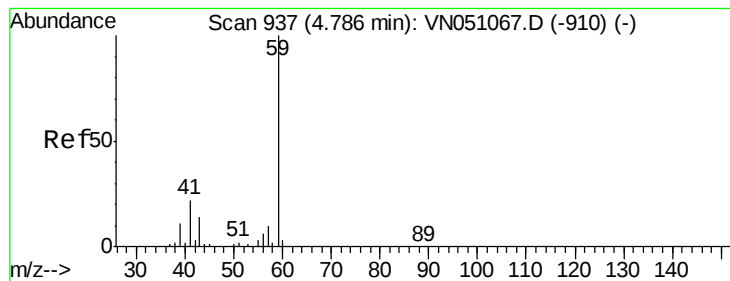
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

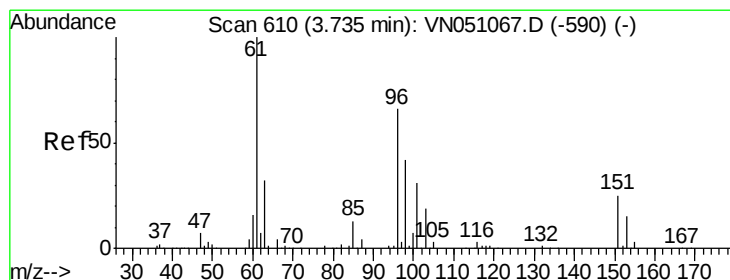
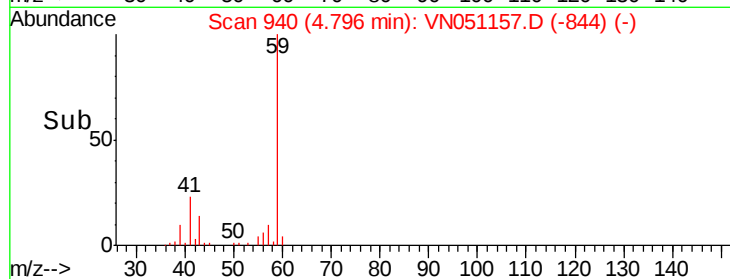
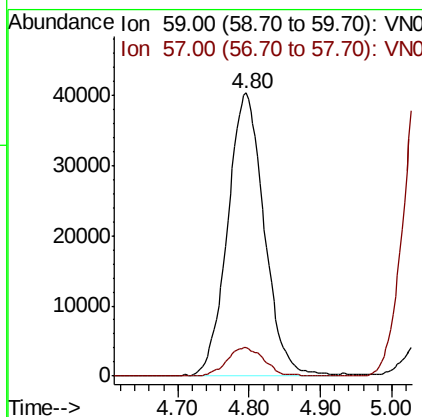
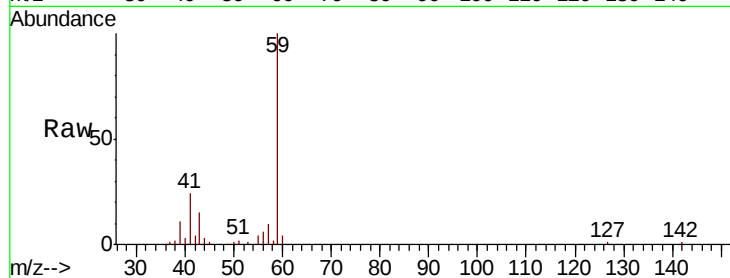
Tert butyl alcohol
Concen: 270.74 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1

Manual Integrations
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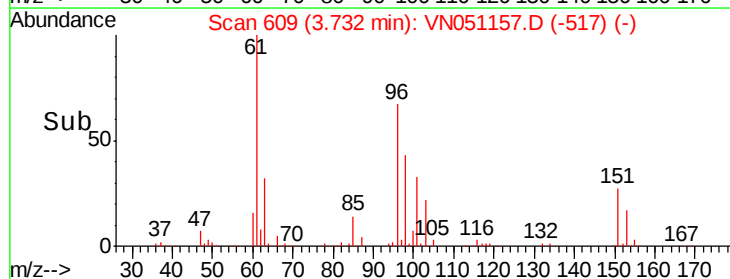
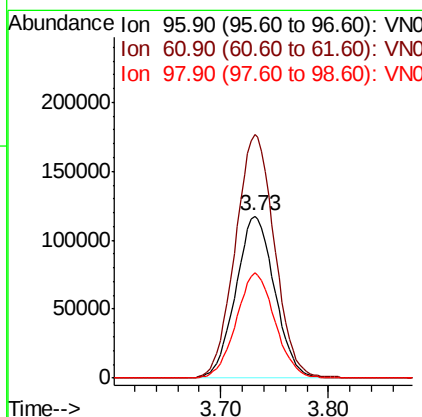
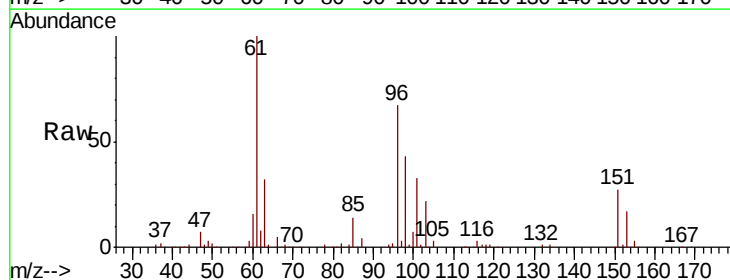
MMDadoda
9/14/2018 11:46:56 AM

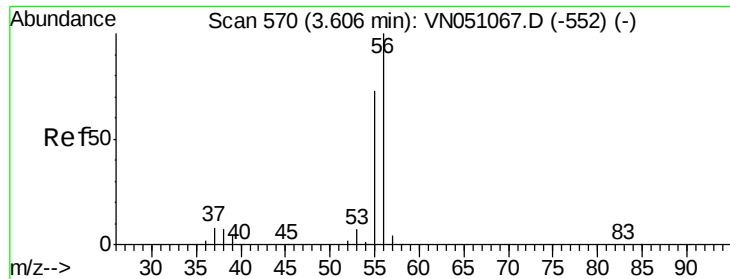


#12

1,1-Dichloroethene
Concen: 44.15 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.1	120.3	180.5
98	64.7	50.8	76.2





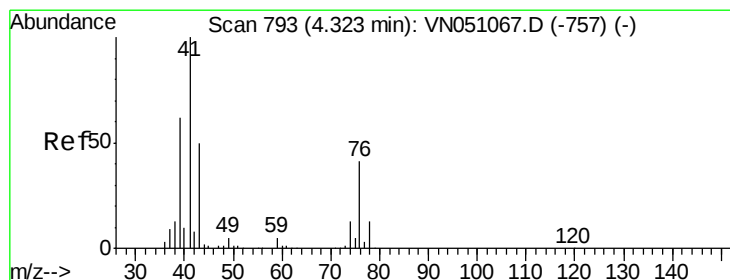
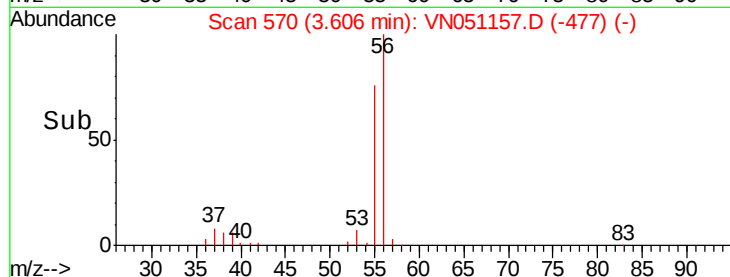
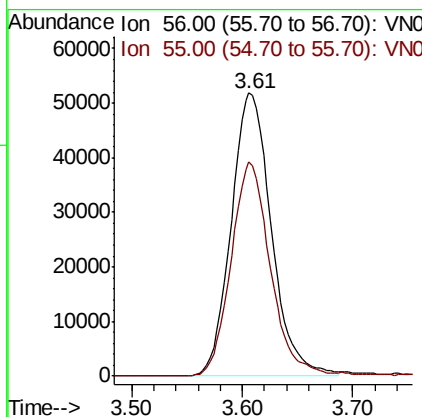
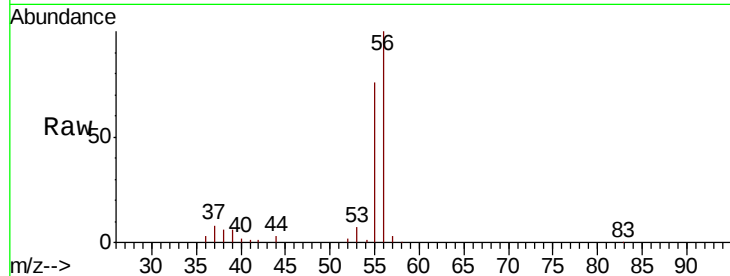
#13
Acrolein
Concen: 206.74 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	73.6	58.0	87.0

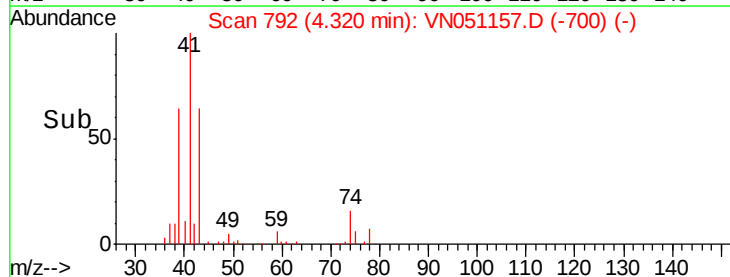
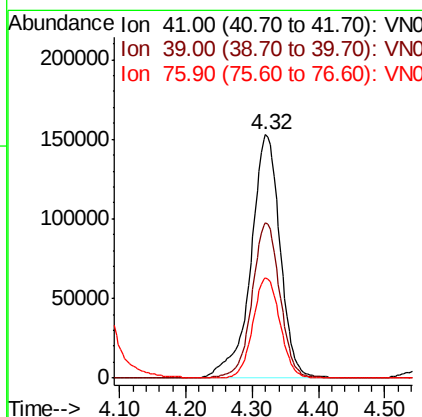
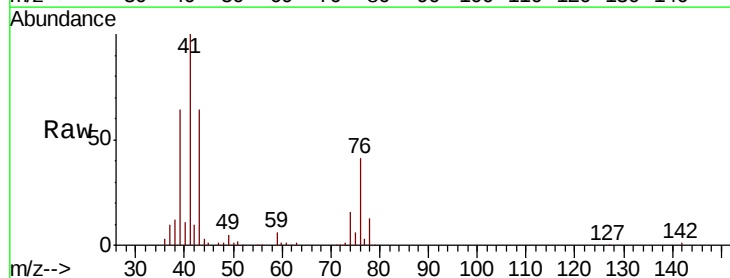
Manual Integrations
APPROVED

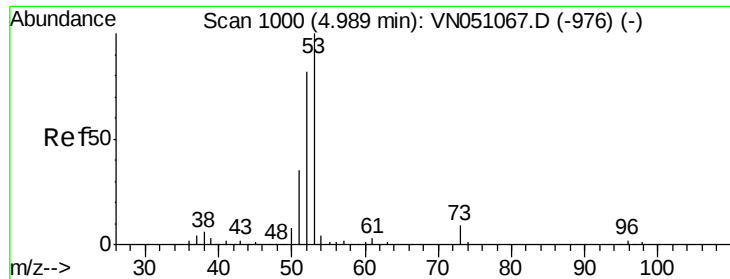
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#14
Allyl chloride
Concen: 46.20 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
41	100		
39	60.8	48.8	73.2
76	37.6	30.6	45.8





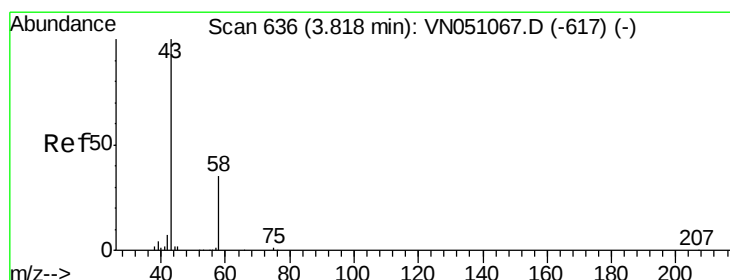
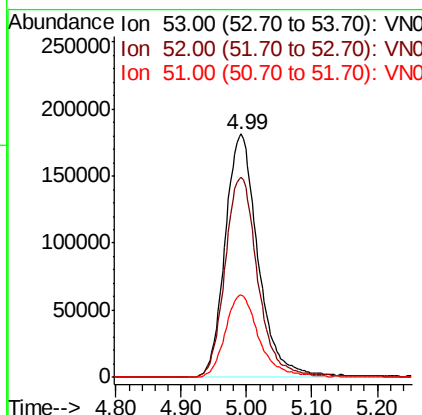
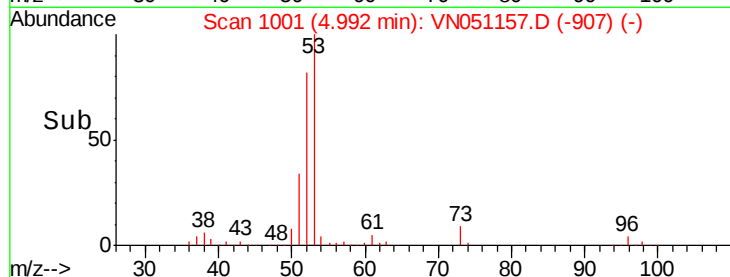
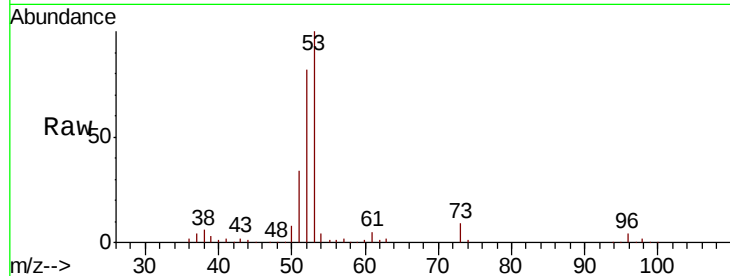
#15
 Acrylonitrile
 Concen: 269.80 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	34.8	28.2	42.2

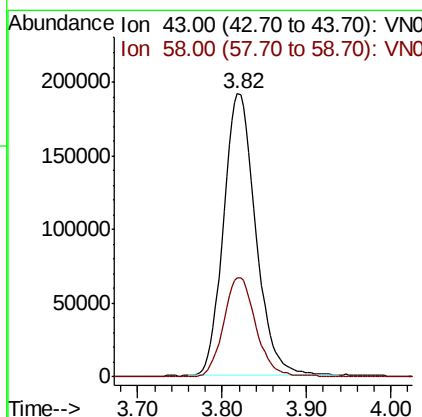
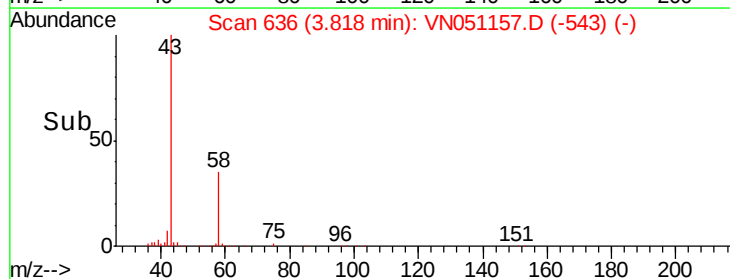
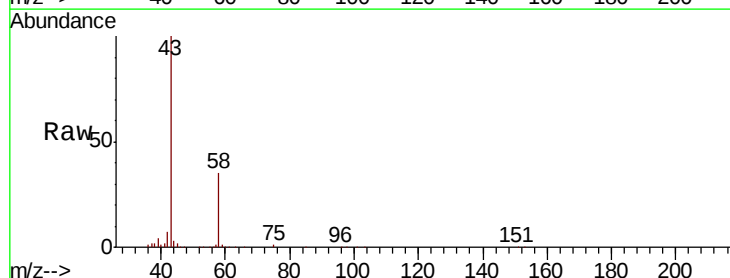
Manual Integrations
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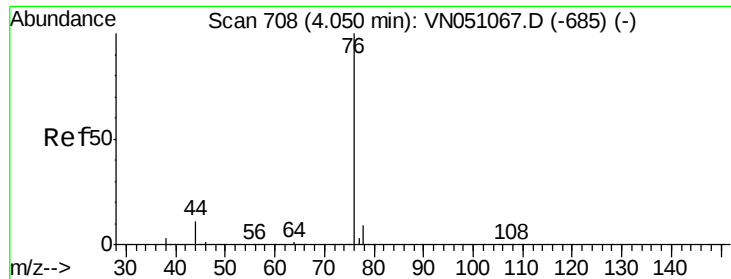
MMDadoda
 9/14/2018 11:46:56 AM



#16
 Acetone
 Concen: 295.55 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.8	41.6





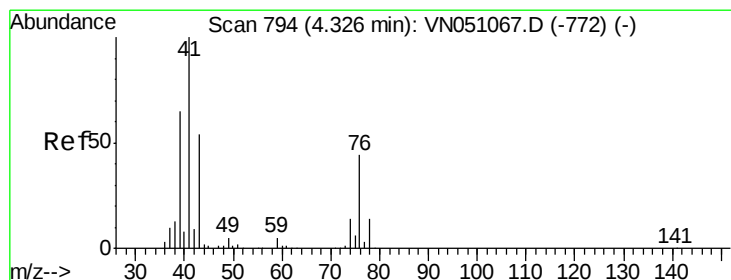
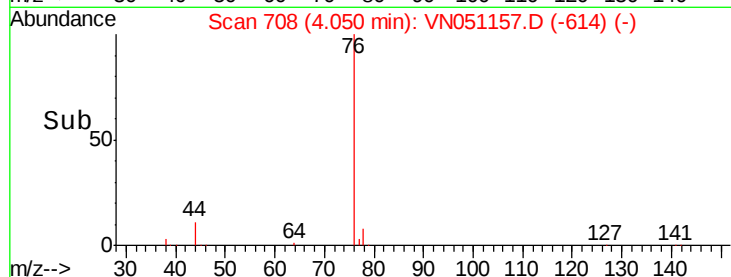
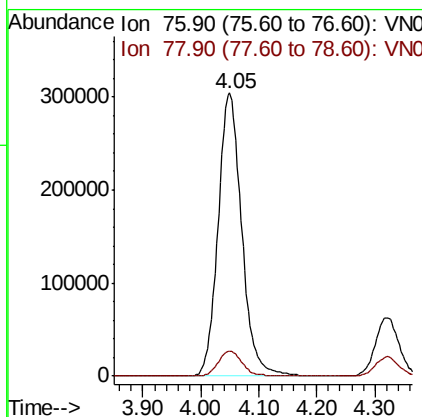
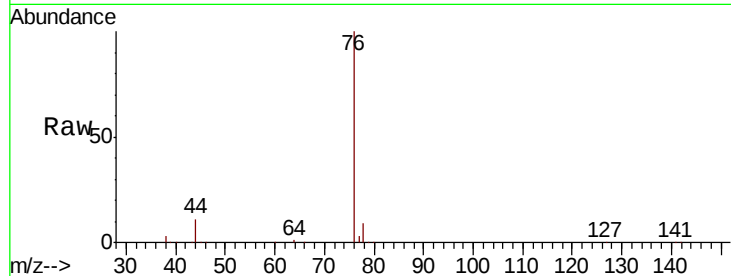
#17
Carbon Disulfide
Concen: 43.67 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6

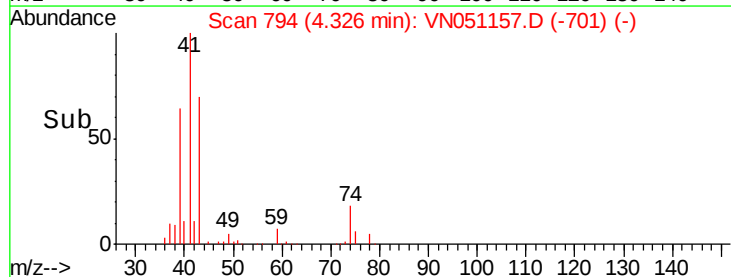
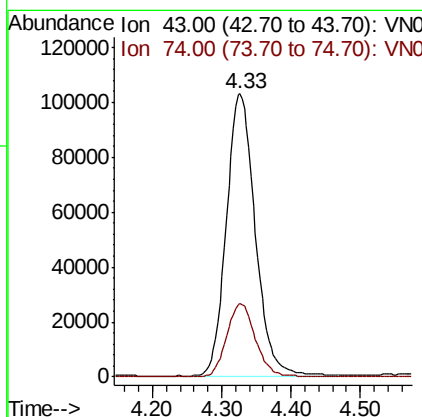
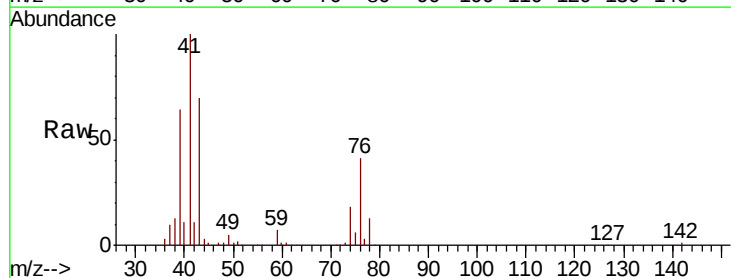
Manual Integrations
APPROVED

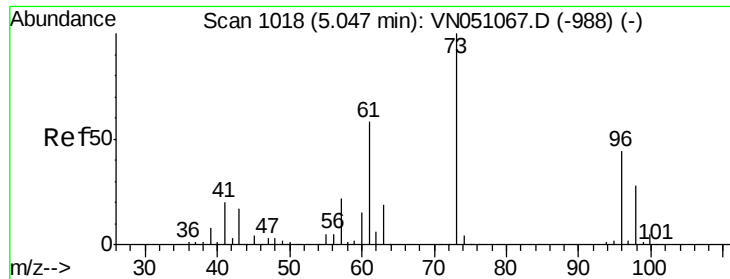
MMDadoda
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#18
Methyl Acetate
Concen: 53.83 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.9	20.7	31.1





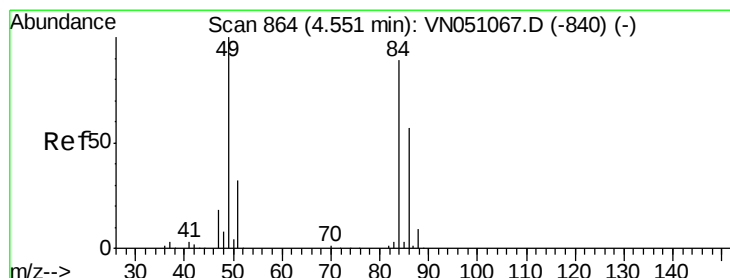
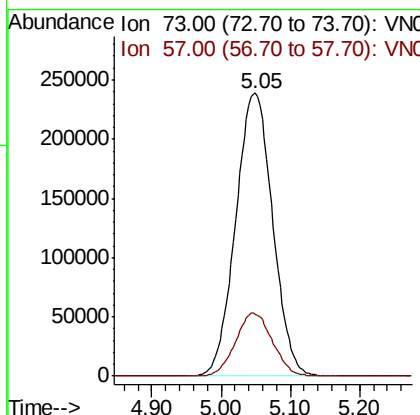
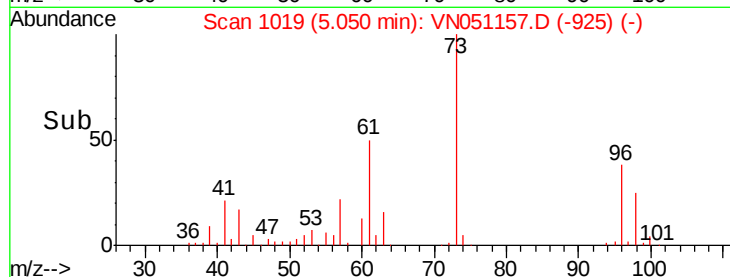
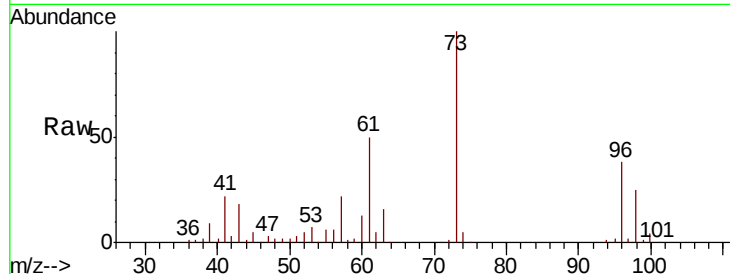
#19
Methyl tert-butyl Ether
Concen: 50.31 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleID :
VSTDCCC050

Tot Ion: 73 Resp: 887146
Ion Ratio Lower Upper
73 100
57 22.1 17.9 26.9

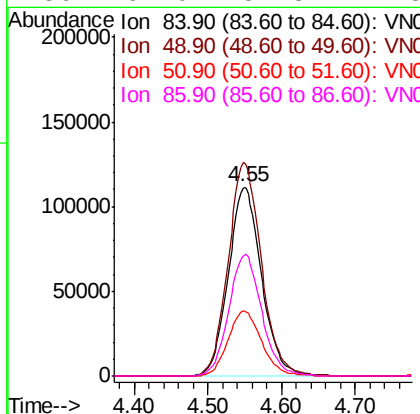
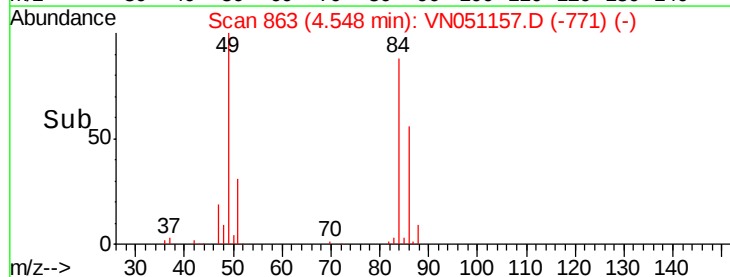
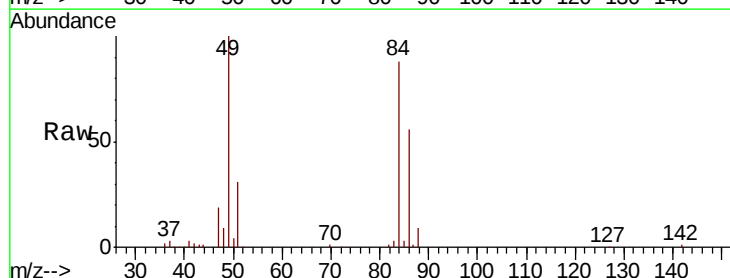
Manual Integrations
APPROVED

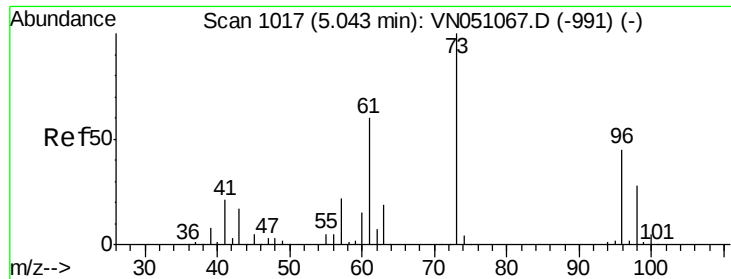
MMDadoda
9/14/2018 11:46:56 AM



#20
Methylene Chloride
Concen: 45.39 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 84 Resp: 348921
Ion Ratio Lower Upper
84 100
49 113.4 90.2 135.2
51 34.6 28.4 42.6
86 64.0 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 44.96 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 325282

Ion Ratio Lower Upper

96 100

61 131.6 106.5 159.7

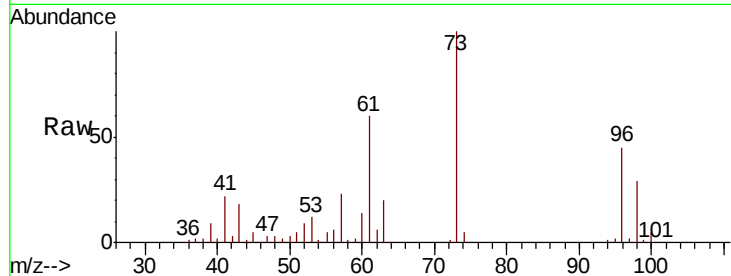
98 63.7 50.4 75.6

Manual Integrations

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MMDadoda

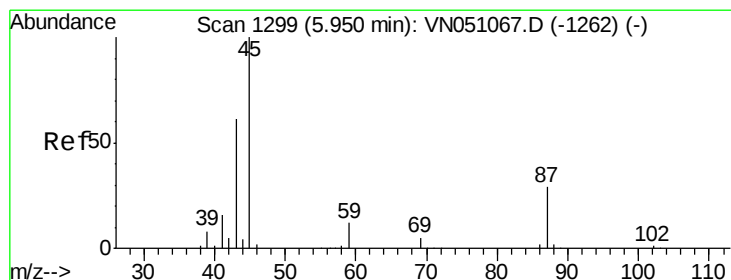
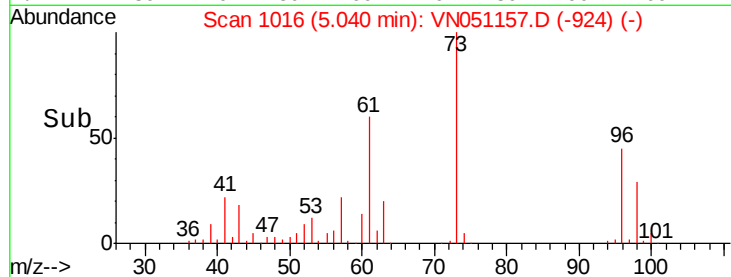
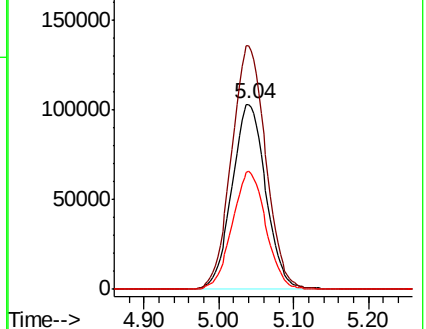
9/14/2018 11:46:56 AM



Abundance Ion 95.90 (95.60 to 96.60): VN051157.D (-924) (-)

Ion 60.90 (60.60 to 61.60): VN051157.D (-924) (-)

Ion 97.90 (97.60 to 98.60): VN051157.D (-924) (-)



#22

Diisopropyl ether

Concen: 49.93 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion: 45 Resp: 1007219

Ion Ratio Lower Upper

45 100

43 56.7 48.8 73.2

87 30.0 23.8 35.8

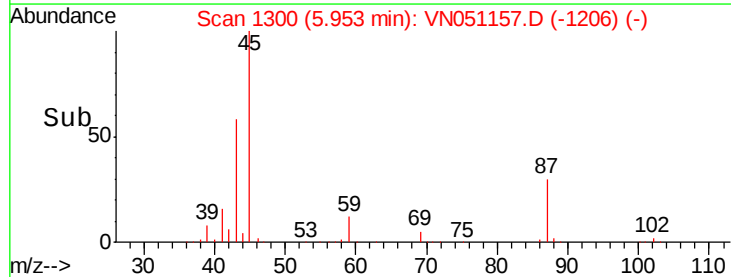
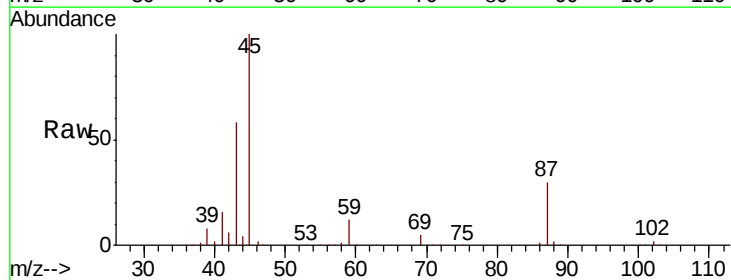
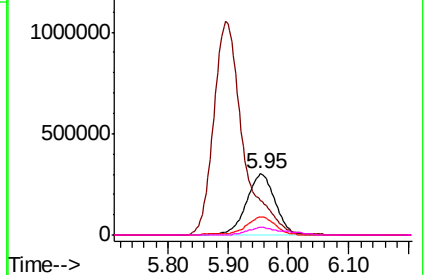
59 12.2 9.6 14.4

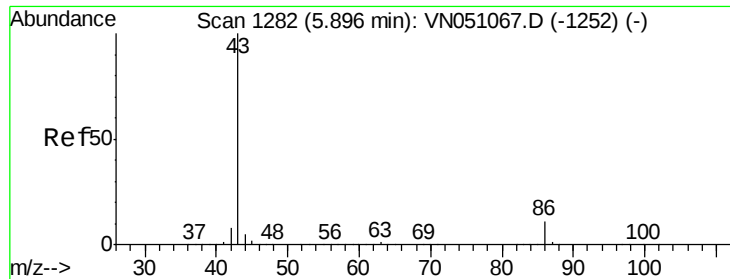
Abundance Ion 45.00 (44.70 to 45.70): VN051157.D (-1206) (-)

Ion 43.00 (42.70 to 43.70): VN051157.D (-1206) (-)

Ion 87.00 (86.70 to 87.70): VN051157.D (-1206) (-)

Ion 59.00 (58.70 to 59.70): VN051157.D (-1206) (-)





#23

Vinyl Acetate

Concen: 260.07 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3550526

Ion Ratio Lower Upper

43 100

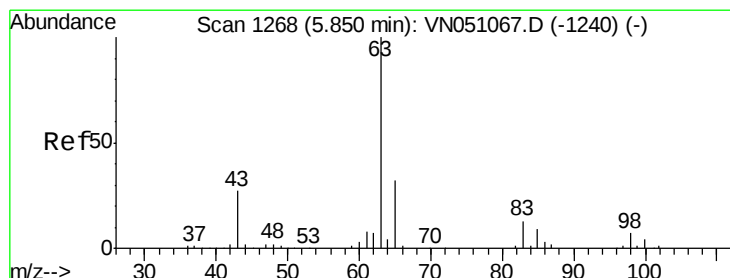
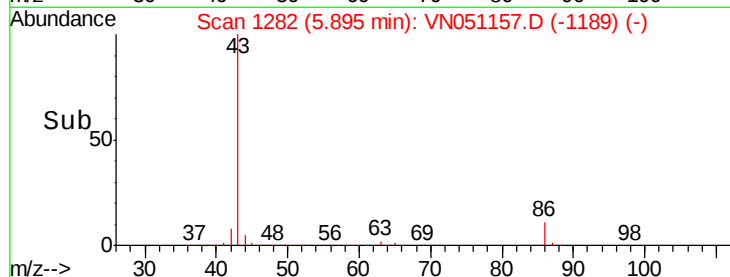
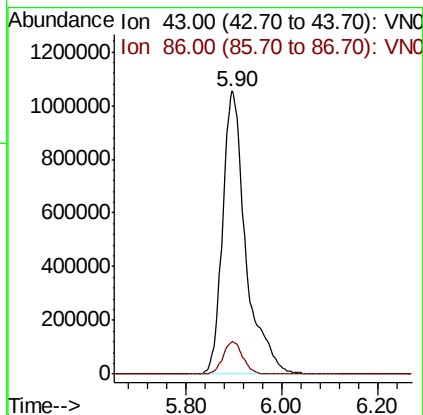
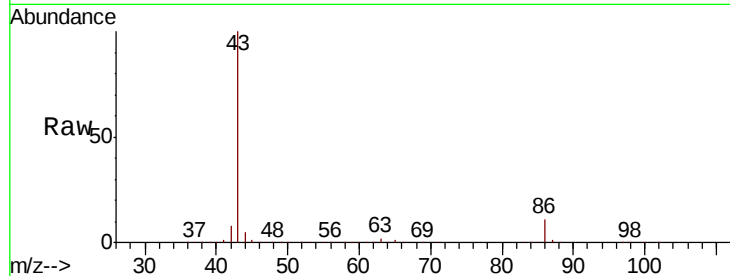
86 11.3 9.2 13.8

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 46.37 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

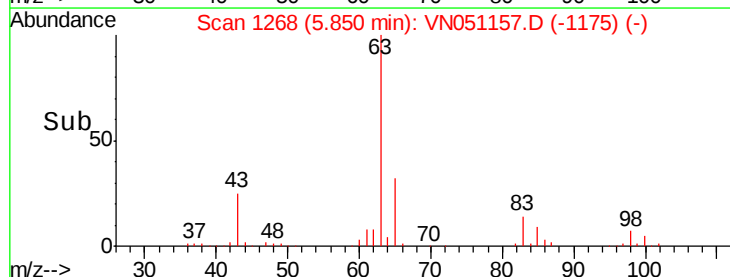
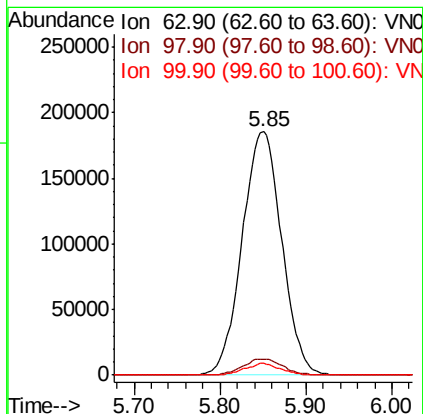
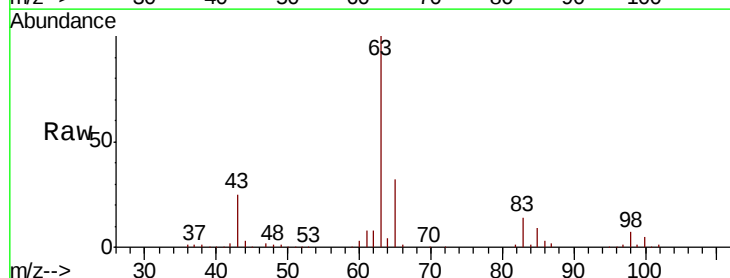
Tgt Ion: 63 Resp: 593547

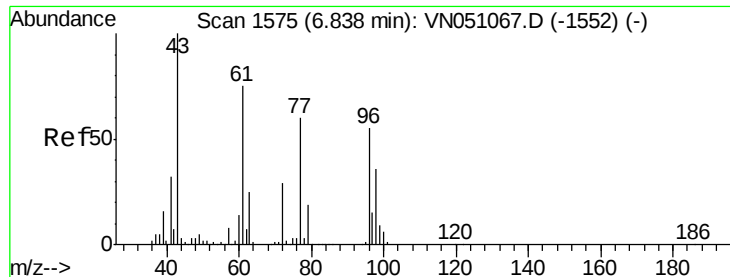
Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

100 4.9 2.1 6.3





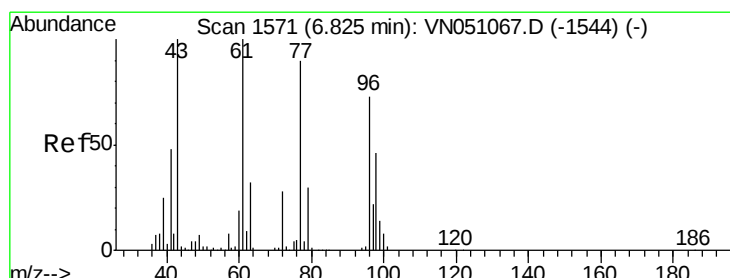
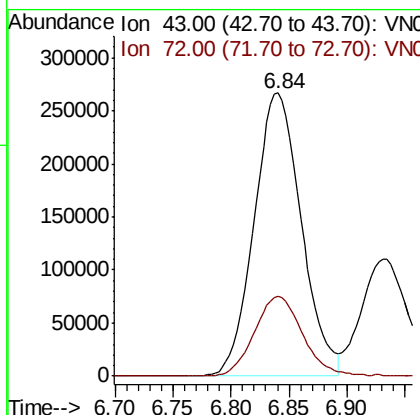
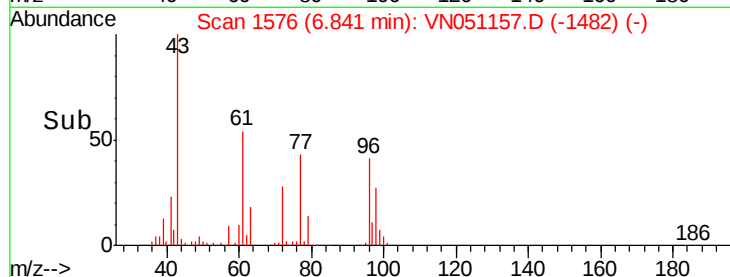
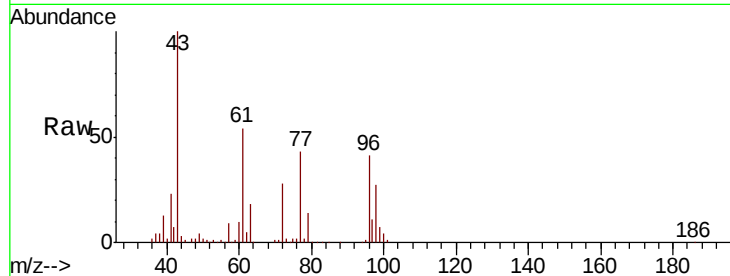
#25
2-Butanone
Concen: 275.27 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 753184
Ion Ratio Lower Upper
43 100
72 28.3 23.0 34.6

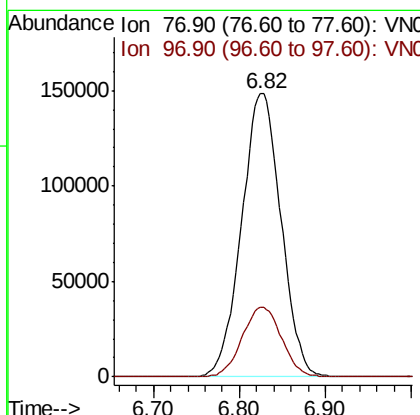
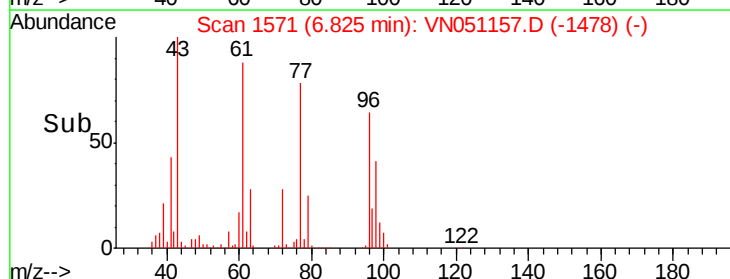
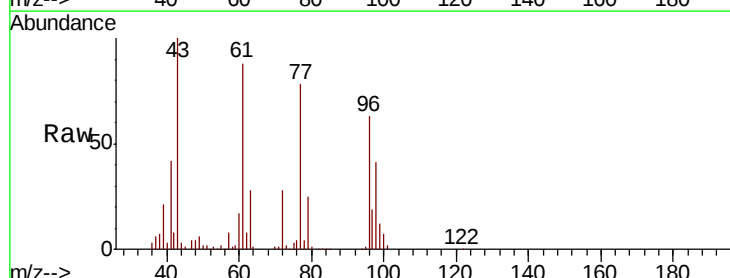
Manual Integrations
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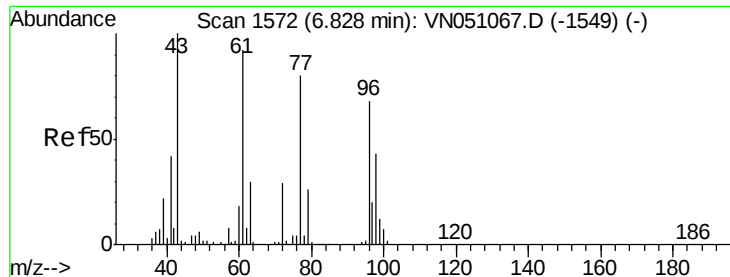
MMDadoda
9/14/2018 11:46:56 AM



#26
2,2-Dichloropropane
Concen: 45.13 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 77 Resp: 472829
Ion Ratio Lower Upper
77 100
97 24.6 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 46.08 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

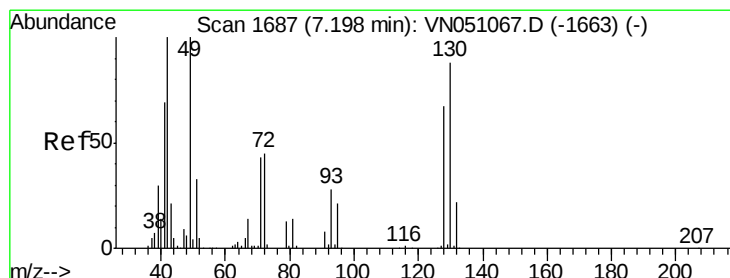
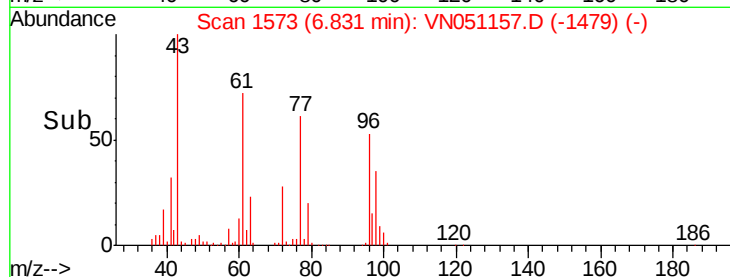
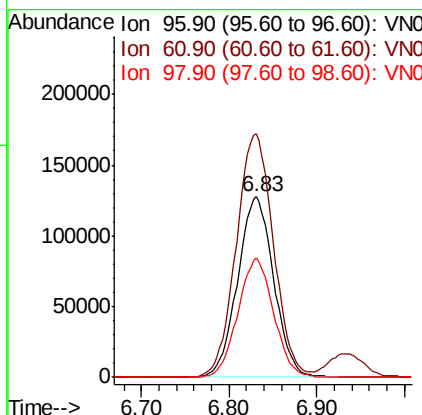
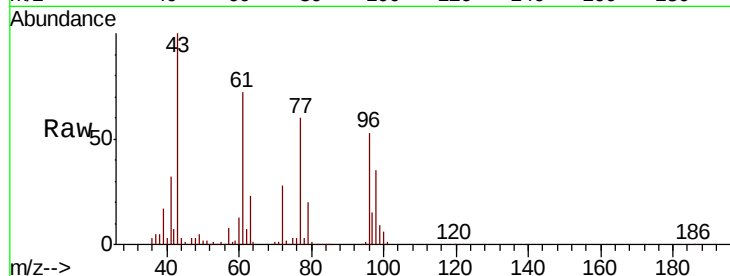
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	365789
Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	278.2
98	65.4	0.0	129.4

Manual Integrations
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#28

Bromochloromethane

Concen: 49.86 ug/l

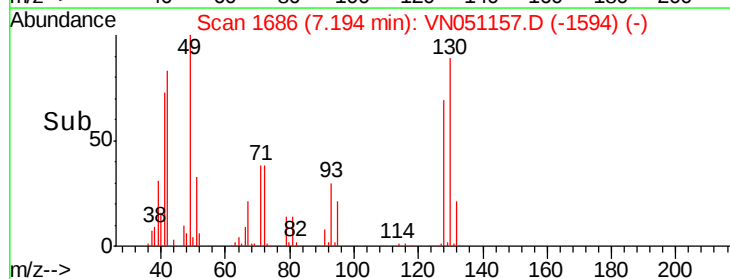
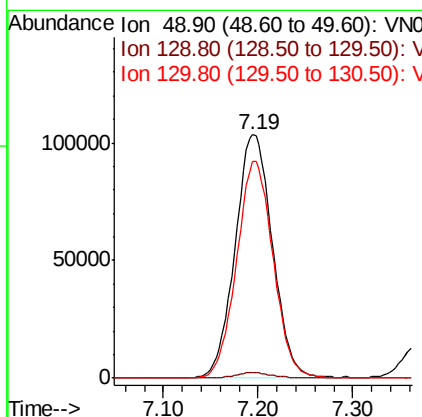
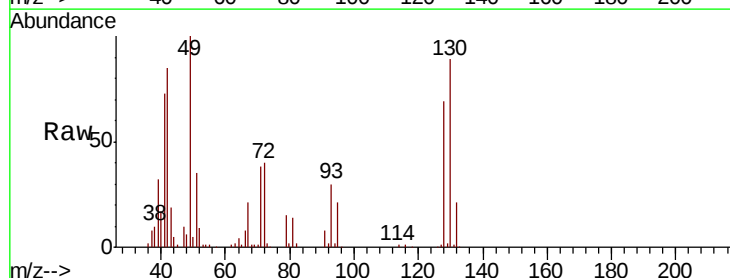
RT: 7.19 min Scan# 1686

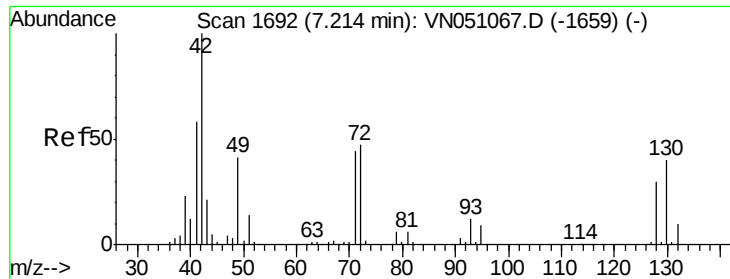
Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion:	49	Resp:	284034
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	87.0	70.7	106.1





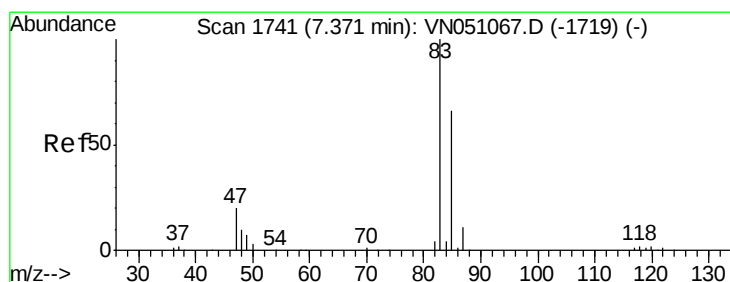
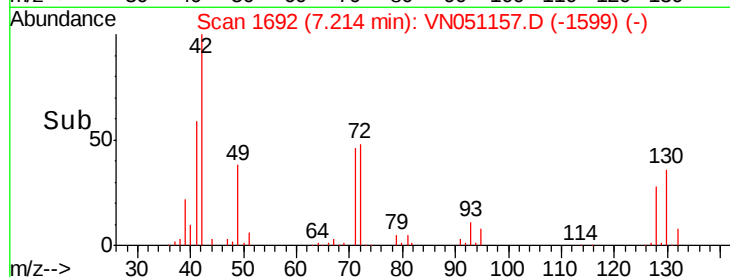
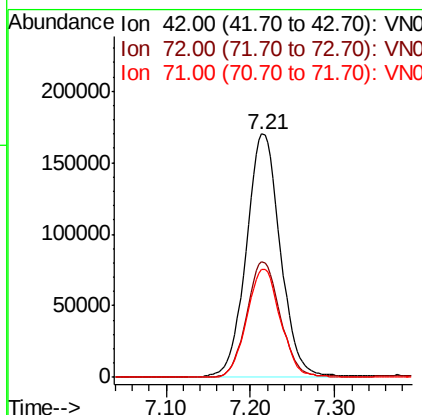
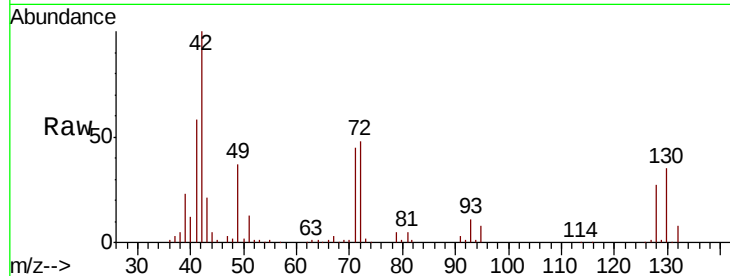
#29
Tetrahydrofuran
Concen: 277.95 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.4	56.0
71	44.4	34.7	52.1

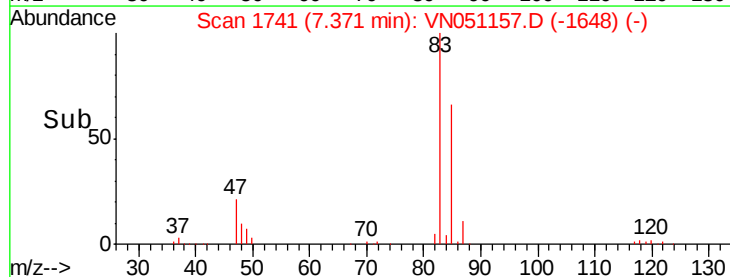
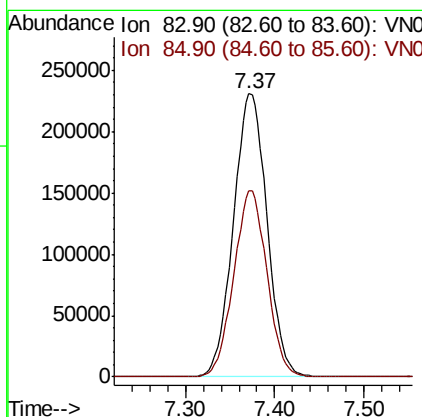
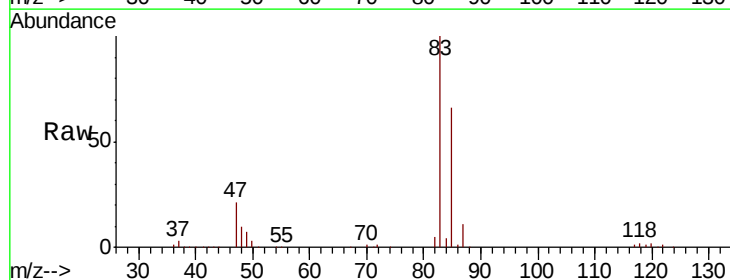
Manual Integrations
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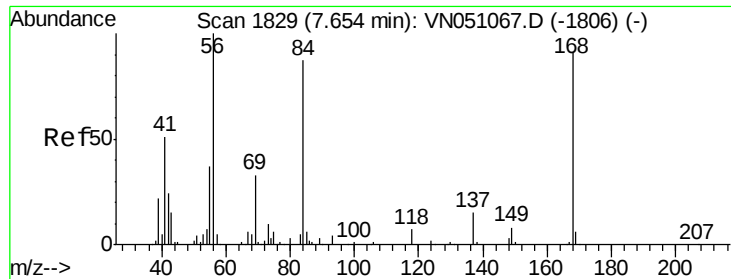
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#30
Chloroform
Concen: 47.46 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	79.0





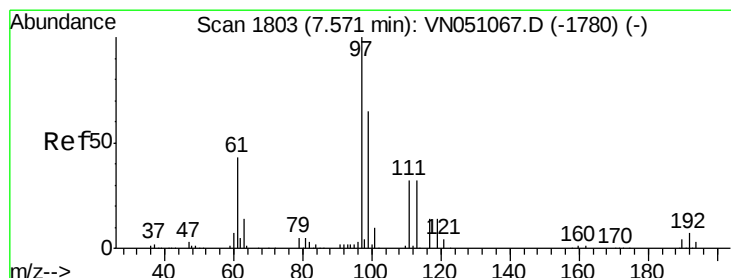
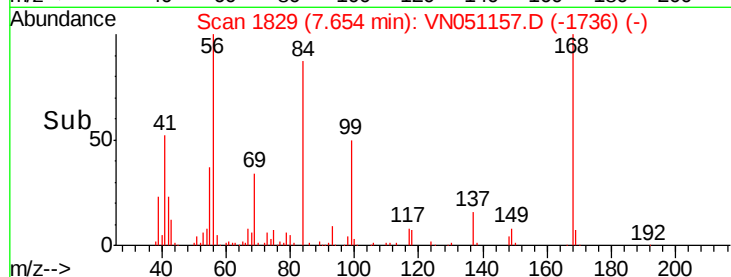
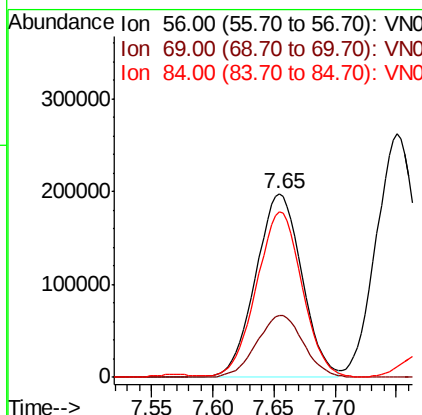
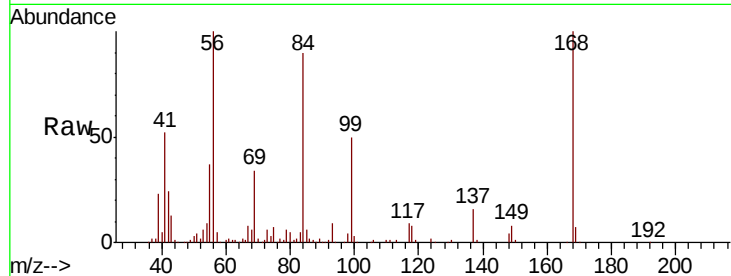
#31
Cyclohexane
Concen: 45.66 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.9	26.3	39.5
84	88.7	69.4	104.0

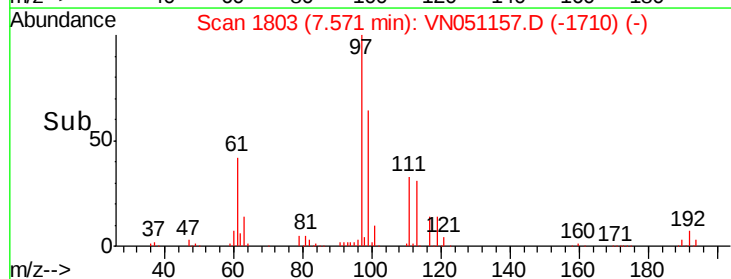
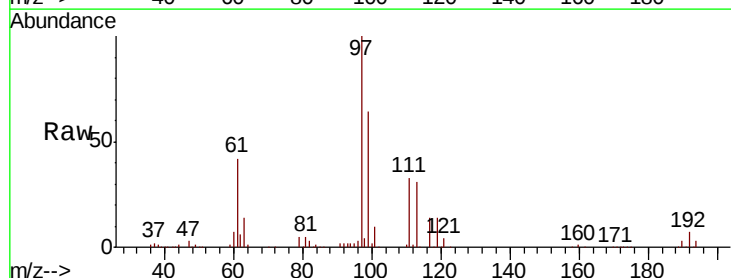
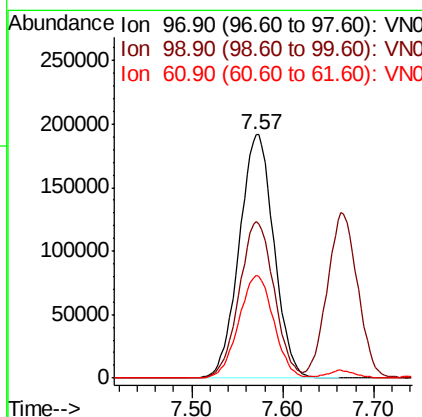
Manual Integrations
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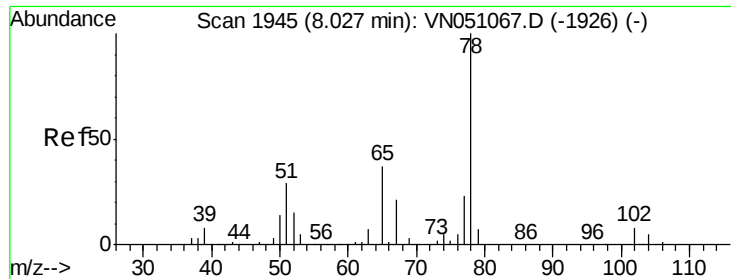
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#32
1,1,1-Trichloroethane
Concen: 46.80 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.6	77.4
61	42.3	33.8	50.6





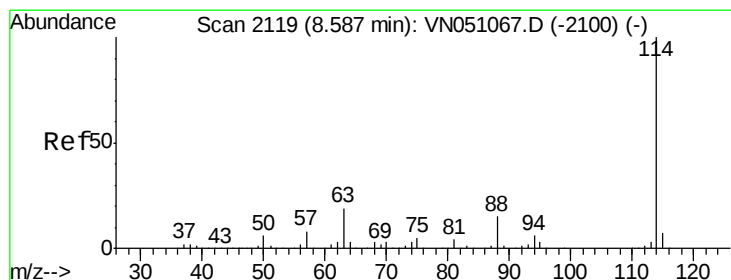
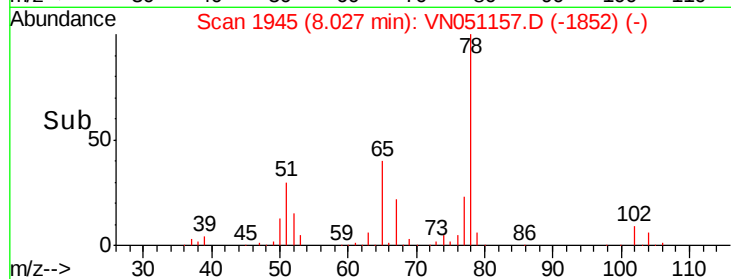
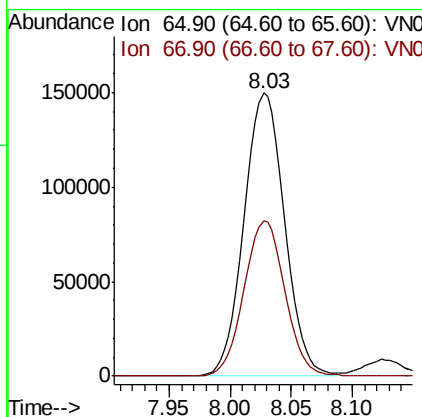
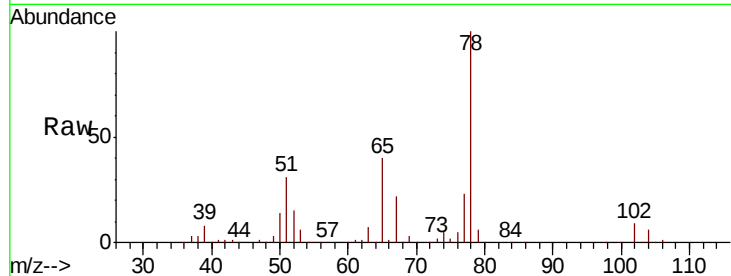
#33
 1,2-Dichloroethane-d4
 Concen: 49.56 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	344876		
67	55.3	0.0	112.0	

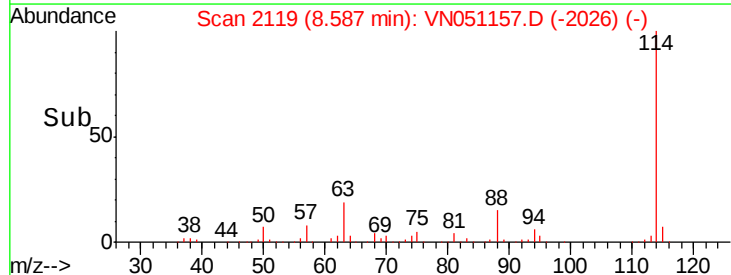
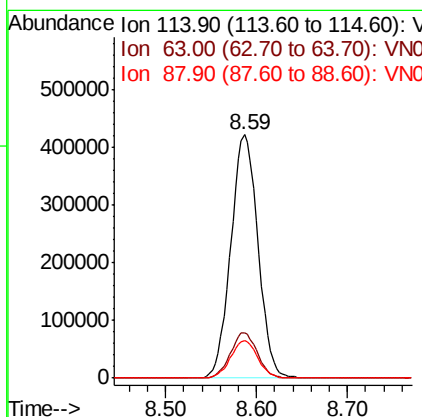
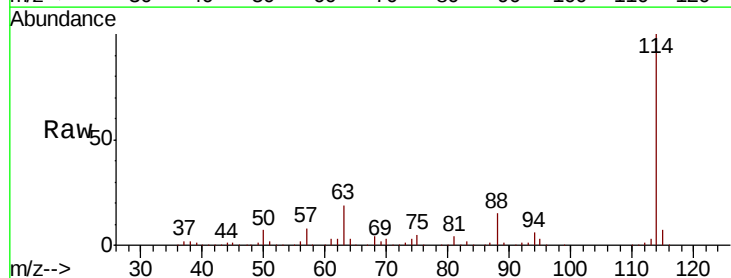
Manual Integrations
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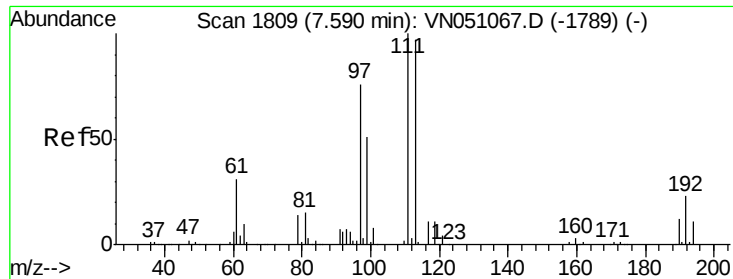
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	878459		
63	18.7	0.0	37.8	
88	15.5	0.0	30.8	





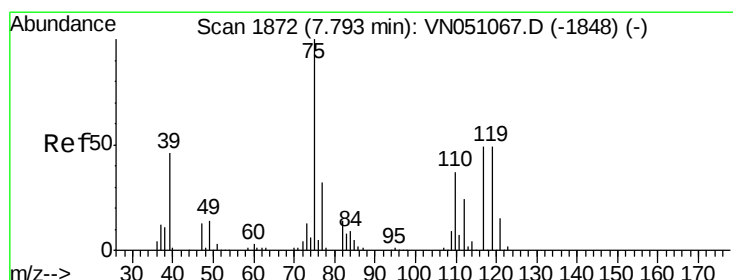
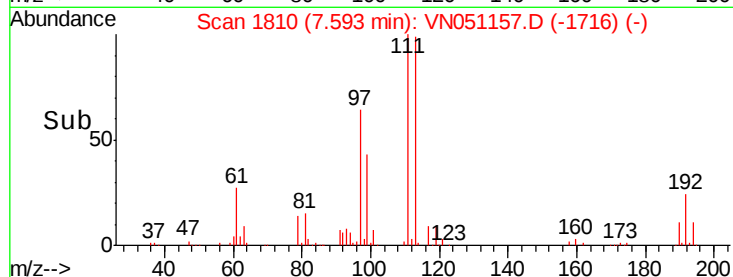
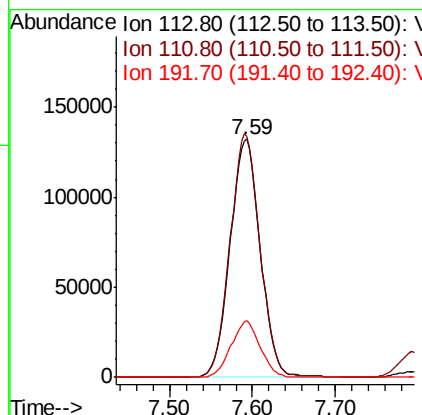
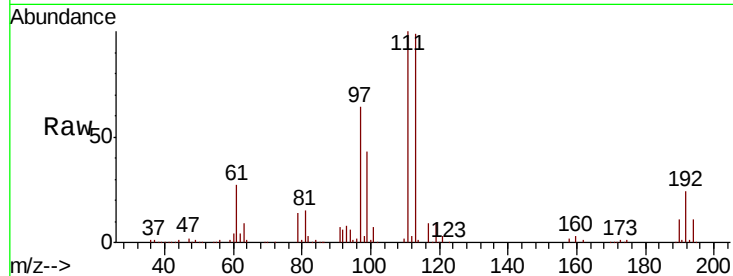
#35
 Dibromofluoromethane
 Concen: 50.64 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	100.9	83.0	124.6	
192	22.9	18.7	28.1	

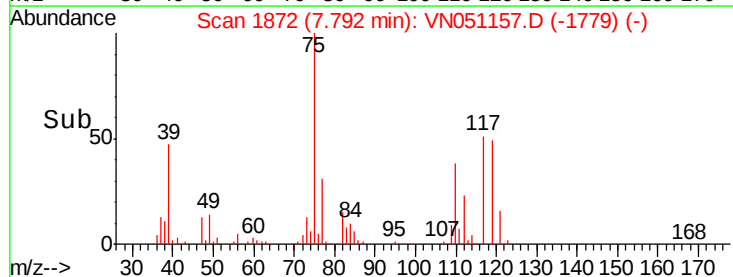
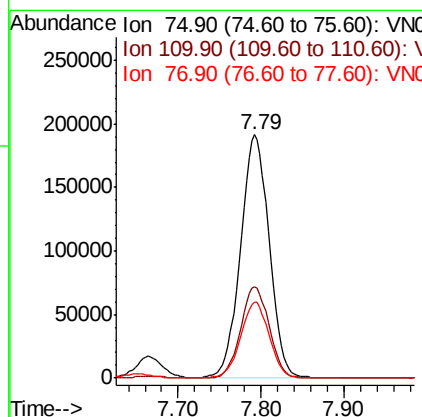
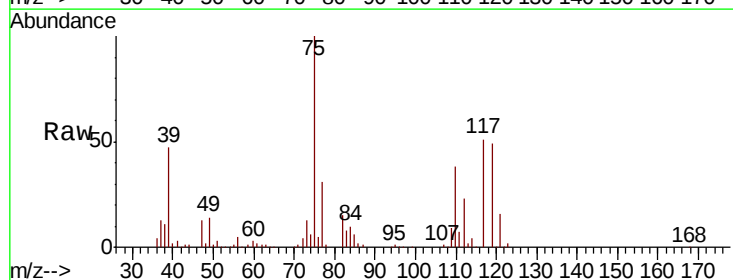
Manual Integrations
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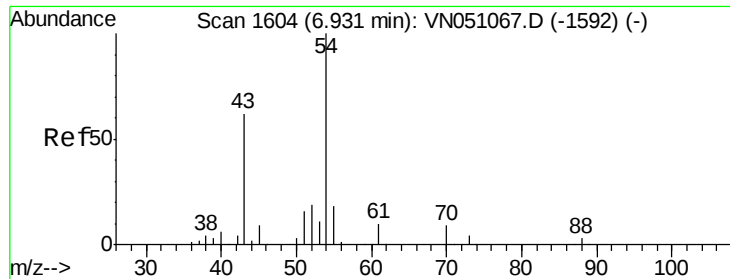
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#36
 1,1-Dichloropropene
 Concen: 47.59 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.5	18.6	55.8	
77	31.2	25.2	37.8	





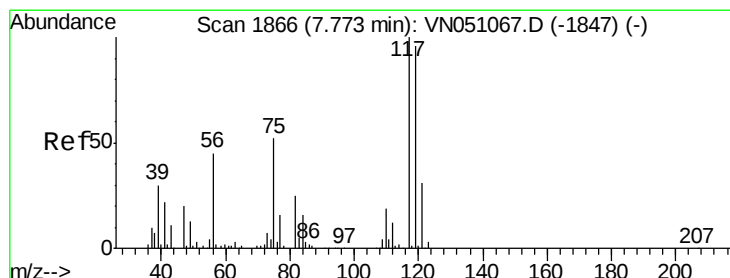
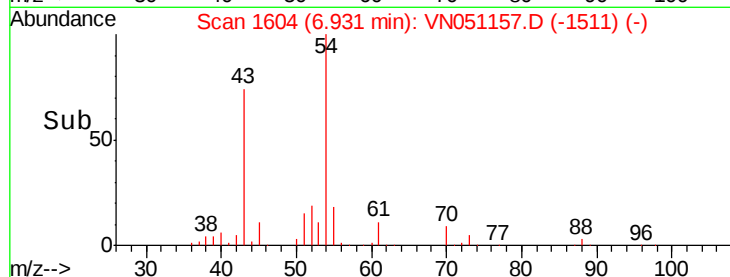
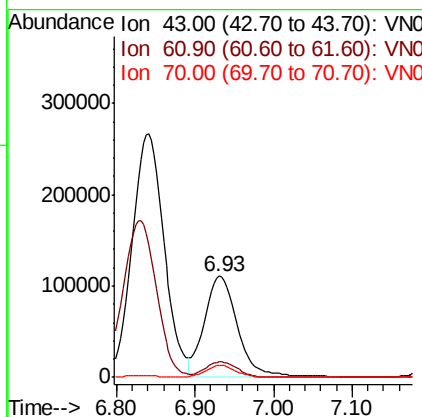
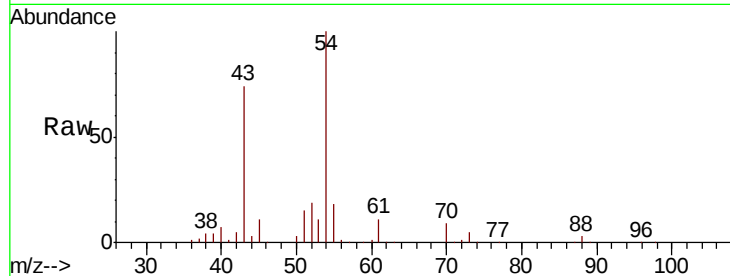
#37
Ethyl Acetate
Concen: 56.73 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.4	18.6
70	10.8	9.3	13.9

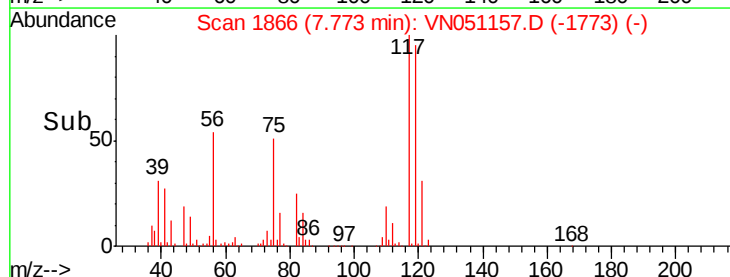
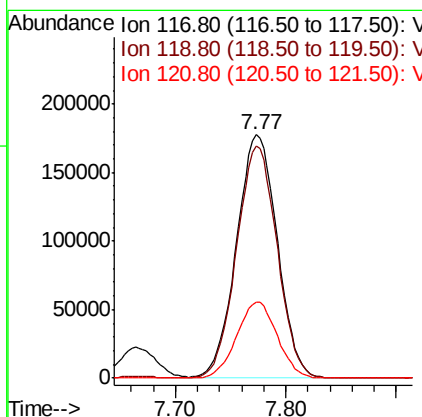
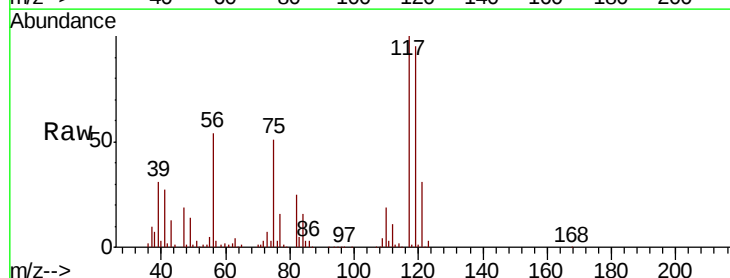
Manual Integrations
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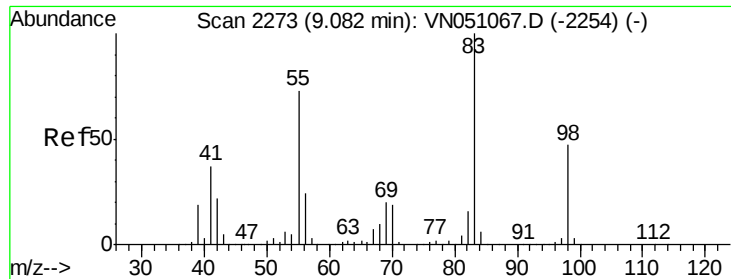
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#38
Carbon Tetrachloride
Concen: 47.90 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.8	115.2
121	31.0	24.6	36.8





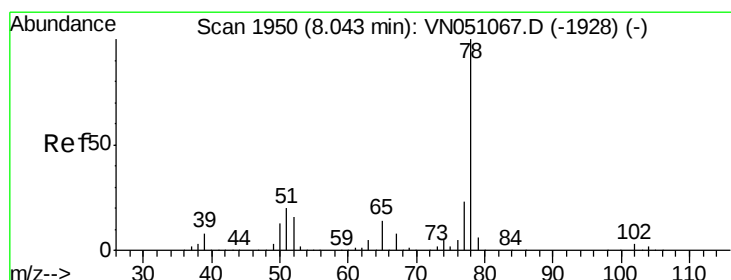
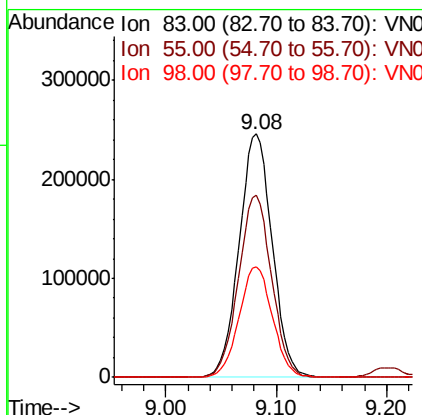
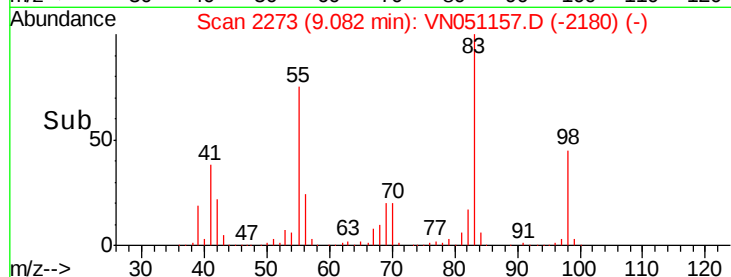
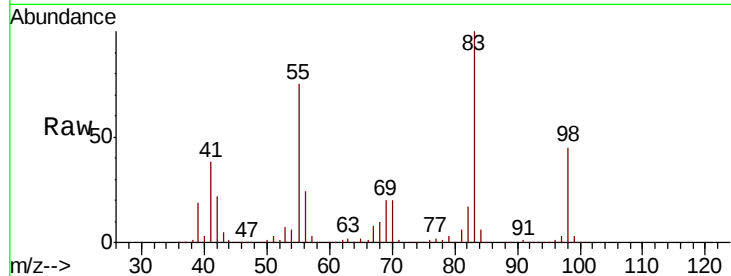
#39
Methvlcvclohexane
Concen: 48.03 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.8	58.4	87.6
98	45.5	37.3	55.9

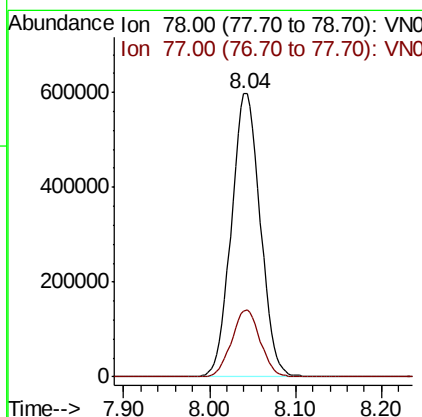
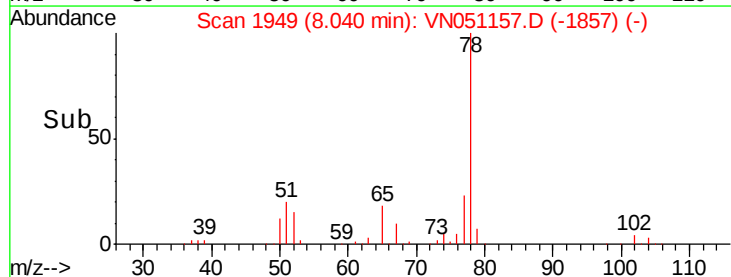
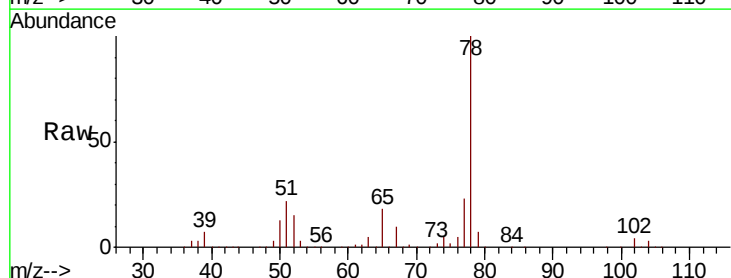
Manual Integrations
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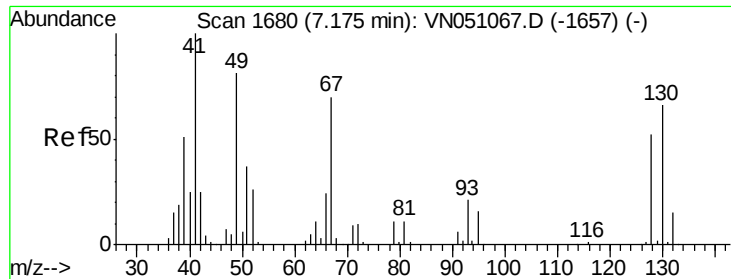
MMDadoda
9/14/2018 11:46:56 AM



#40
Benzene
Concen: 47.98 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	27.8





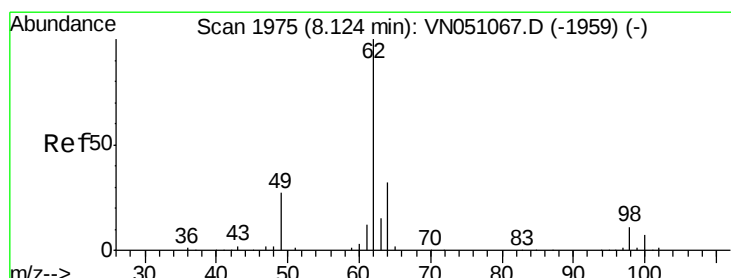
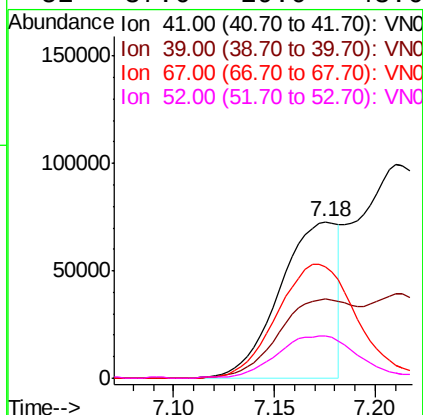
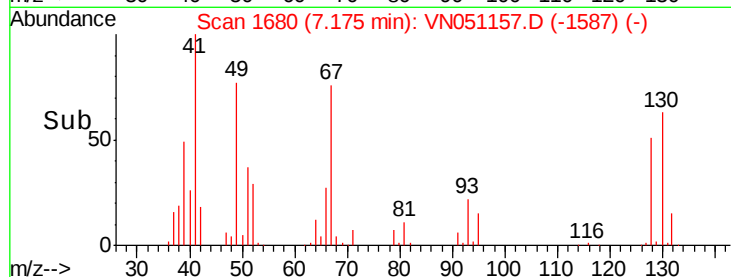
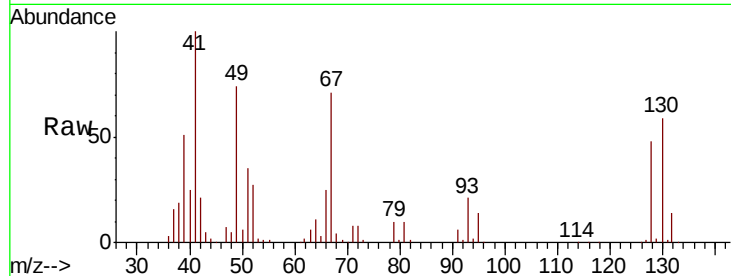
#41
Methacrylonitrile
Concen: 50.64 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		145938		
39	65.1	51.3	76.9		
67	101.1	78.5	117.7		
52	37.6	29.0	43.6		

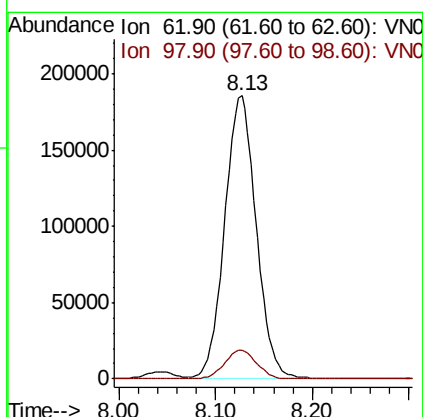
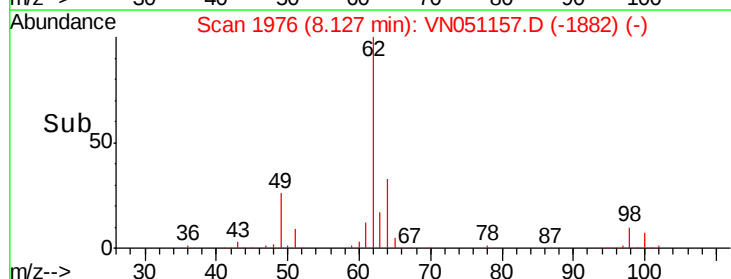
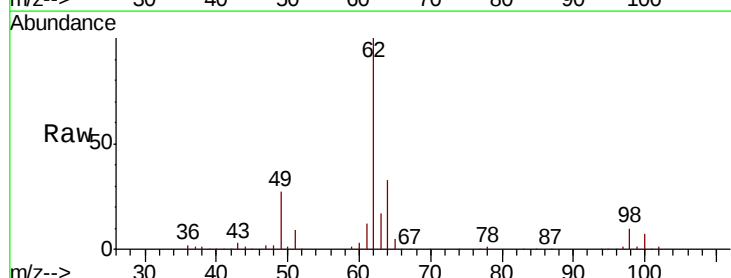
Manual Integrations
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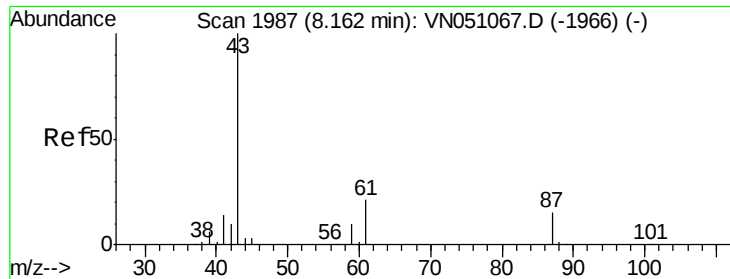
MMDadoda
9/14/2018 11:46:56 AM



#42
1,2-Dichloroethane
Concen: 49.47 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		419077		
98	10.2	0.0	21.0		





#43

Isopropyl Acetate

Concen: 55.68 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

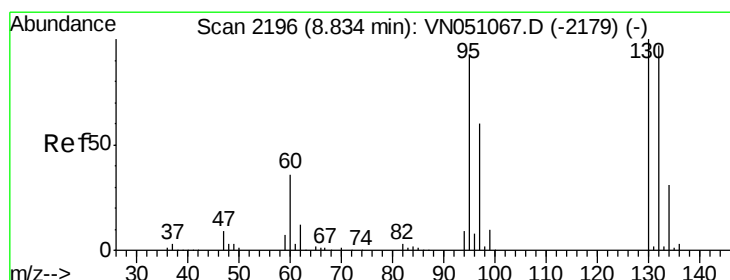
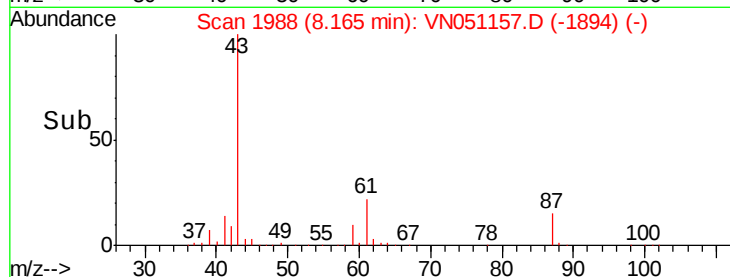
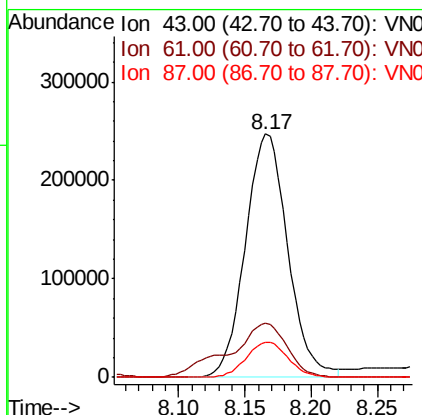
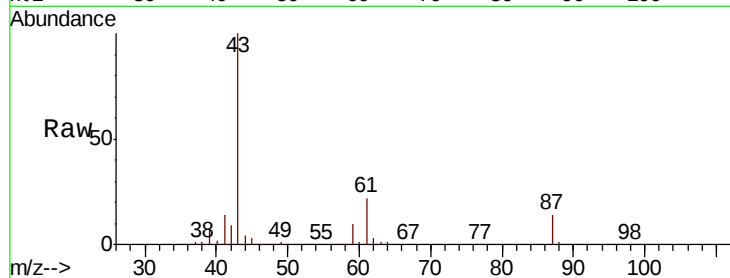
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	548792
Ion	Ratio	Lower	Upper
43	100		
61	30.2	25.0	37.6
87	14.3	11.8	17.8

Manual Integrations
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9/14/2018 11:46:56 AM



#44

Trichloroethene

Concen: 46.74 ug/l

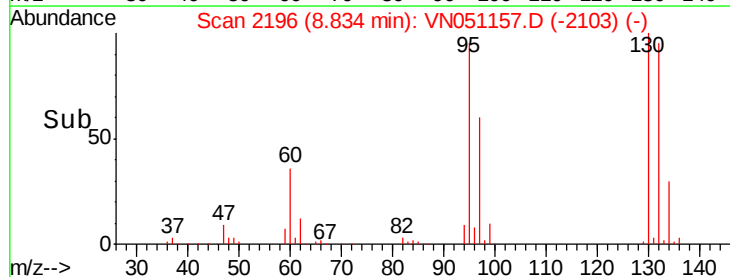
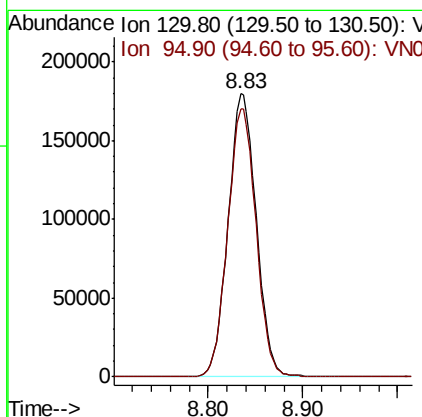
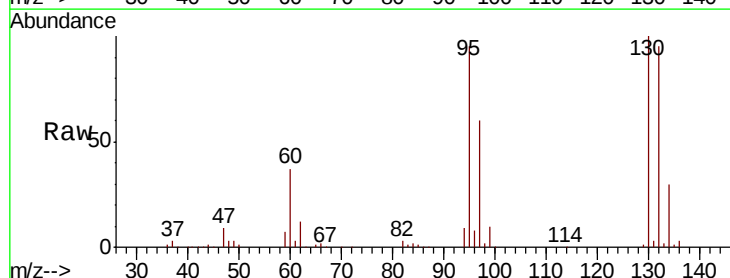
RT: 8.83 min Scan# 2196

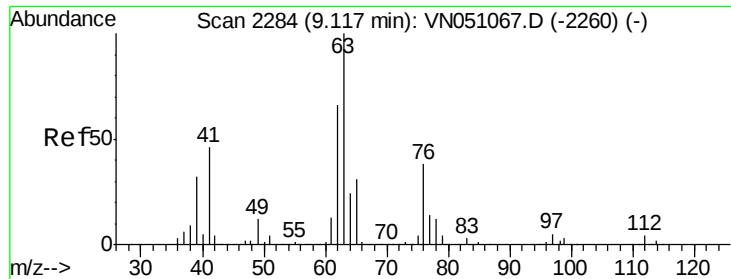
Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion:	130	Resp:	371537
Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	186.2





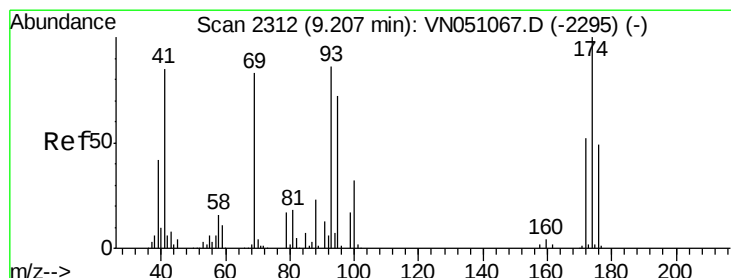
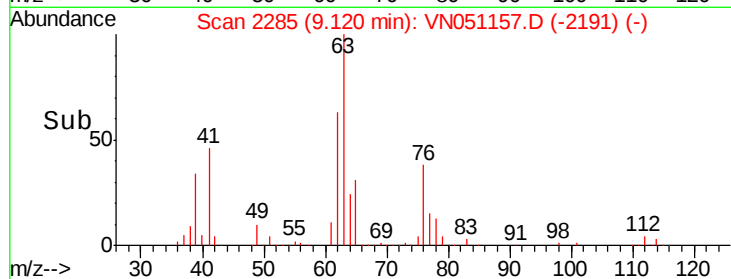
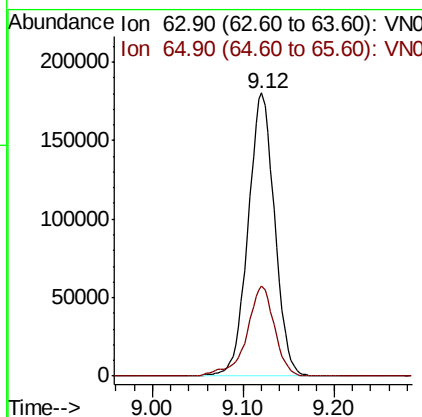
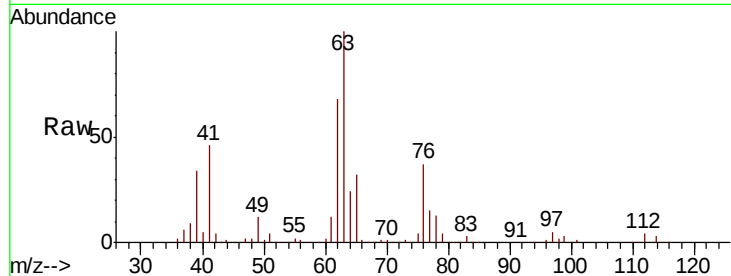
#45
 1,2-Dichloropropane
 Concen: 48.58 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 364820
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.7 37.1

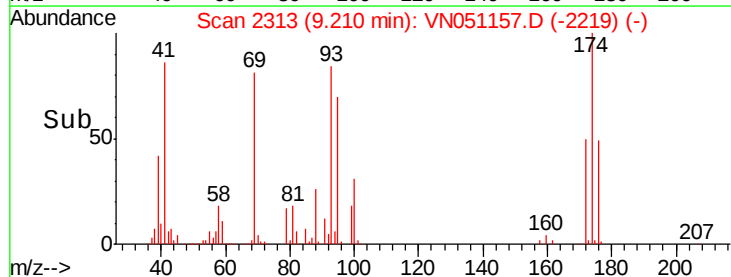
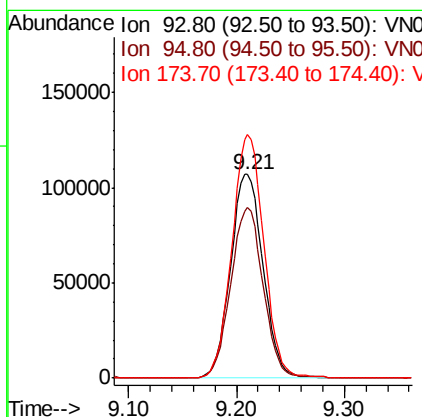
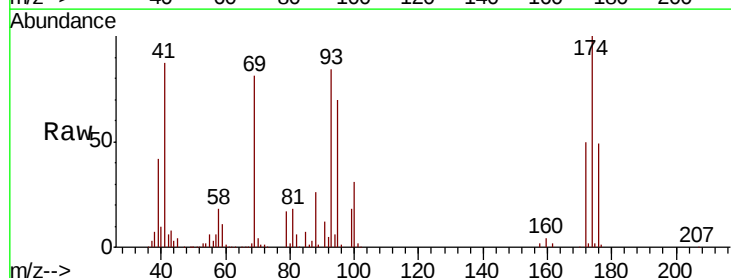
Manual Integrations
 APPROVED

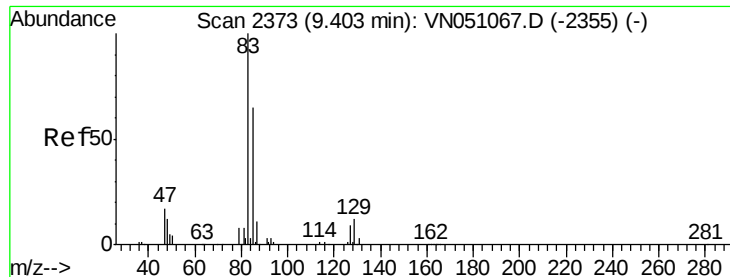
MMDadoda
 9/14/2018 11:46:56 AM



#46
 Dibromomethane
 Concen: 49.36 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion: 93 Resp: 226153
 Ion Ratio Lower Upper
 93 100
 95 83.3 66.8 100.2
 174 116.9 93.3 139.9





#47

Bromodichloromethane

Concen: 49.74 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

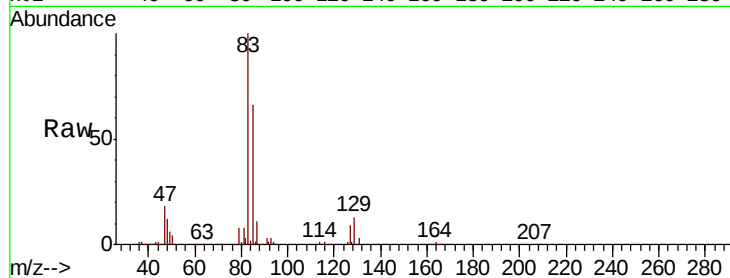
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	463431
Ion Ratio	Lower	Upper	
83	100		
85	66.0	52.3	78.5
127	9.0	7.5	11.3

Manual Integrations
APPROVED

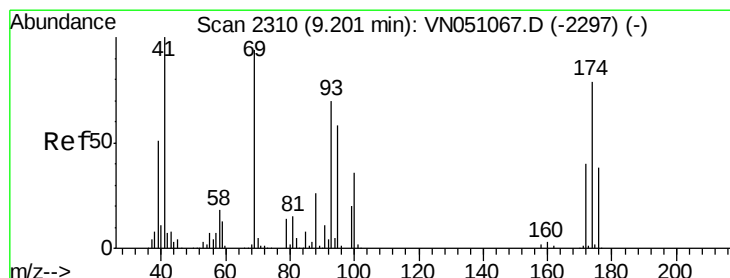
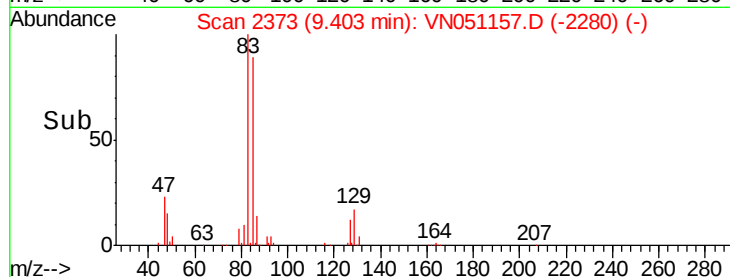
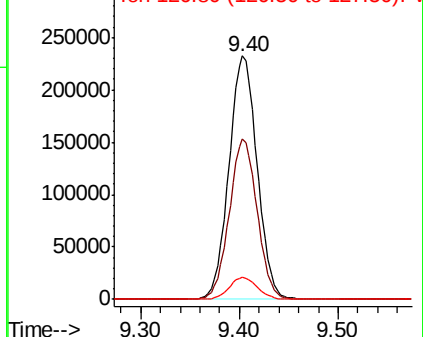
MMDadoda
9/14/2018 11:46:56 AM



Abundance Ion 82.90 (82.60 to 83.60): VN051157.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051157.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051157.D (-2280) (-)



#48

Methyl methacrylate

Concen: 55.59 ug/l

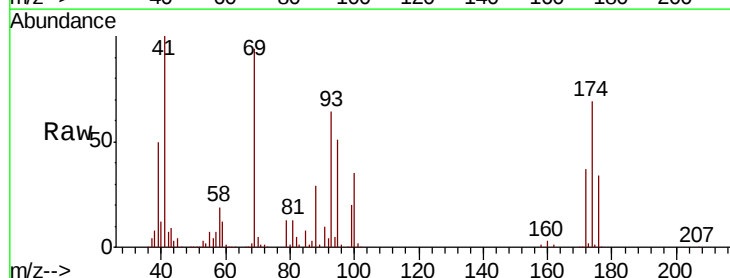
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

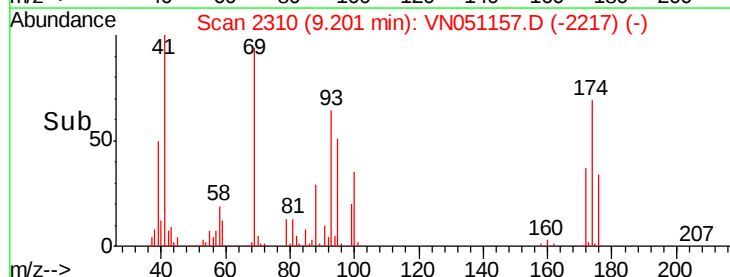
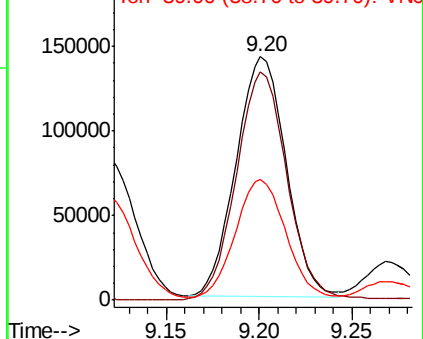
Tgt Ion:	41	Resp:	267026
Ion Ratio	Lower	Upper	
41	100		
69	97.5	77.7	116.5
39	51.3	41.6	62.4

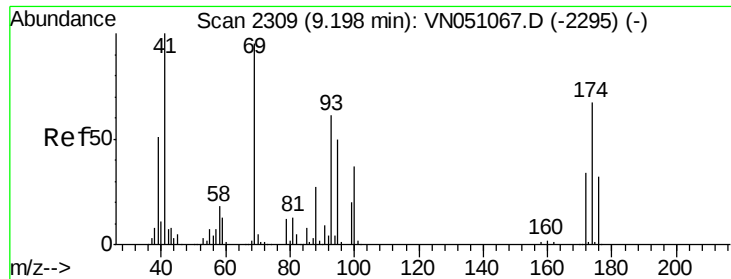


Abundance Ion 41.00 (40.70 to 41.70): VN051157.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051157.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2217) (-)





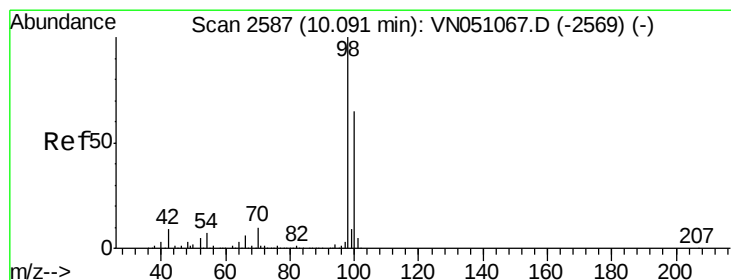
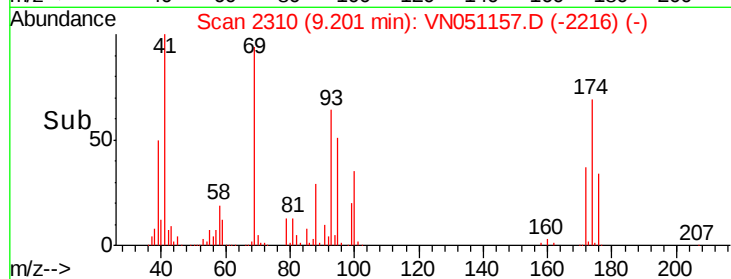
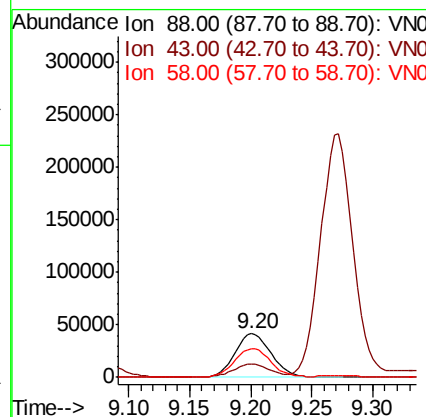
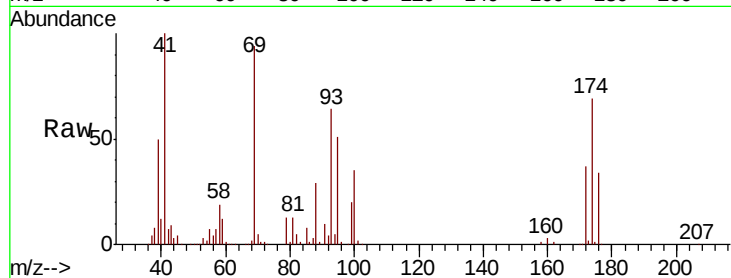
#49
1,4-Dioxane
Concen: 1141.82 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	86000
Ion	Ratio	Lower	Upper
88	100		
43	29.4	23.7	35.5
58	66.2	54.6	82.0

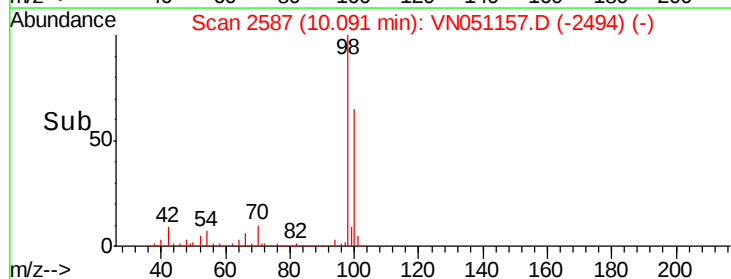
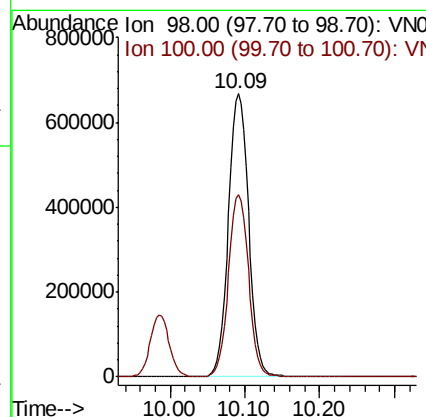
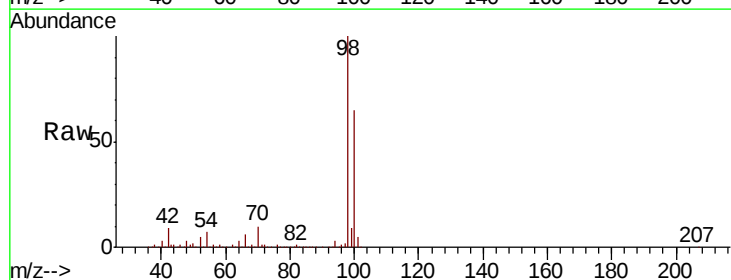
Manual Integrations
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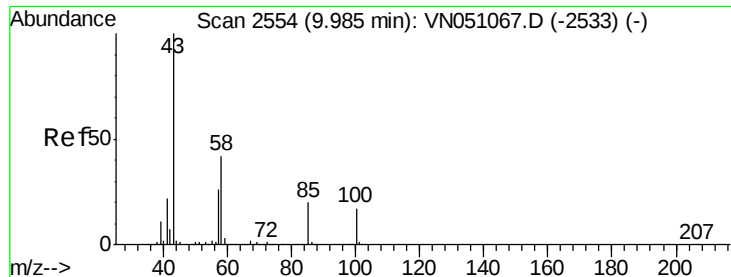
MMDadoda
9/14/2018 11:46:56 AM



#50
Toluene-d8
Concen: 49.79 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	98	Resp	1247247
Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0





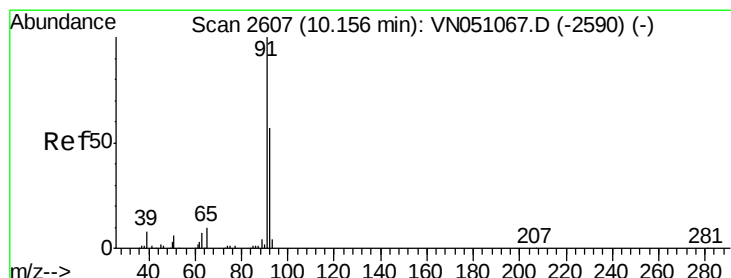
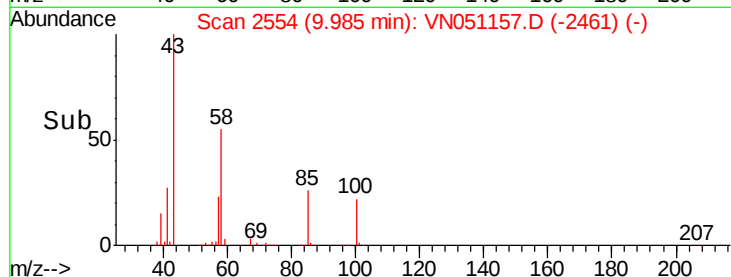
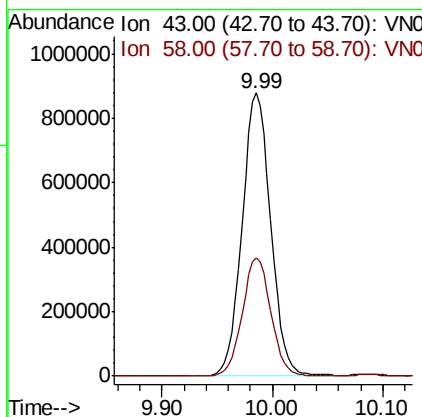
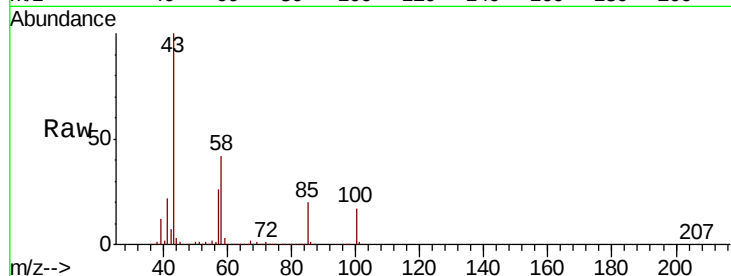
#51
4-Methyl-2-Pentanone
Concen: 288.46 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1572227
Ion Ratio Lower Upper
43 100
58 41.8 33.5 50.3

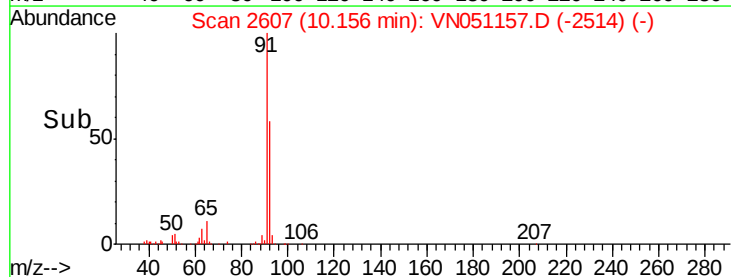
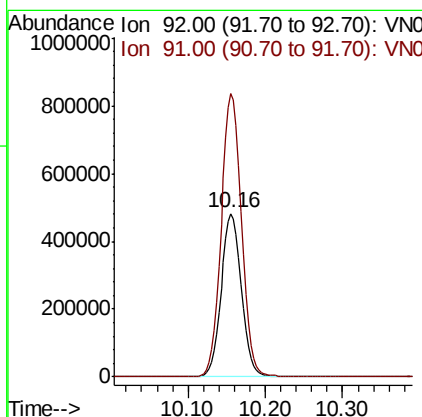
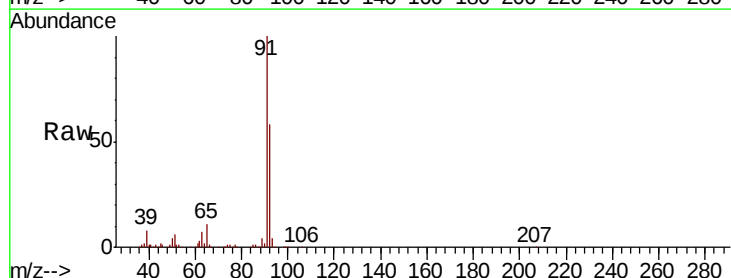
Manual Integrations
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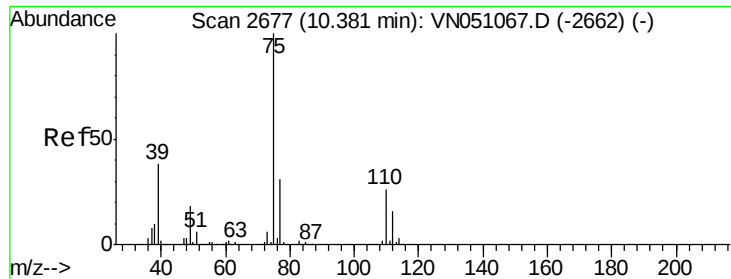
MMDadoda
9/14/2018 11:46:56 AM



#52
Toluene
Concen: 49.39 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 92 Resp: 875292
Ion Ratio Lower Upper
92 100
91 174.7 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 50.93 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 474891

Ion Ratio Lower Upper

75 100

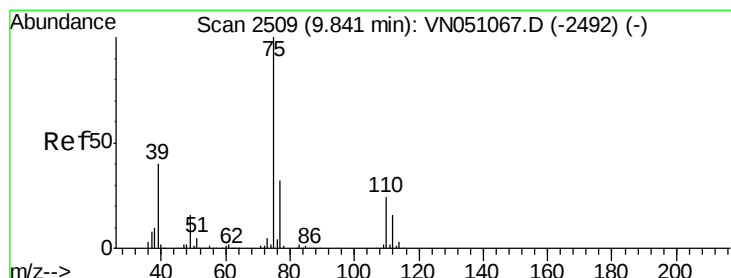
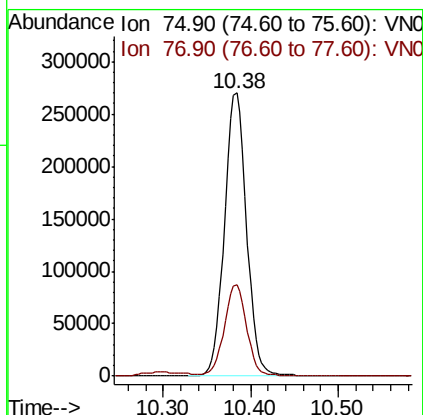
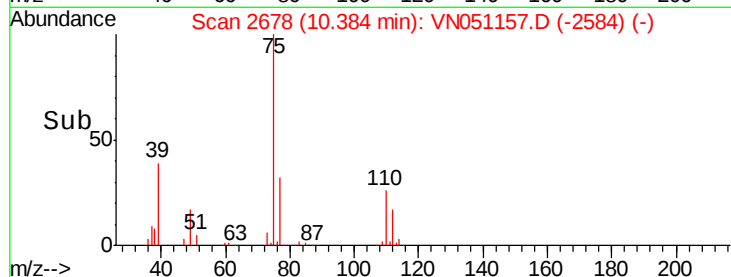
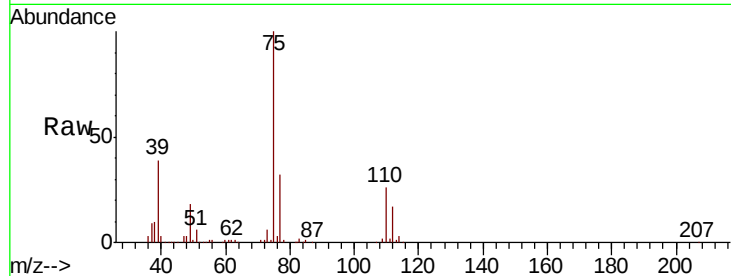
77 32.1 25.3 37.9

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 49.55 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

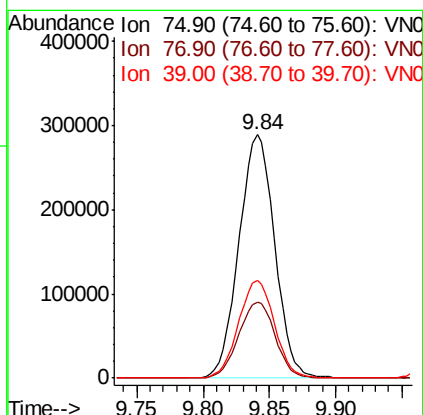
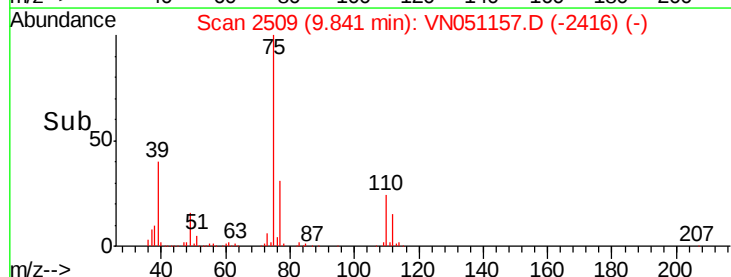
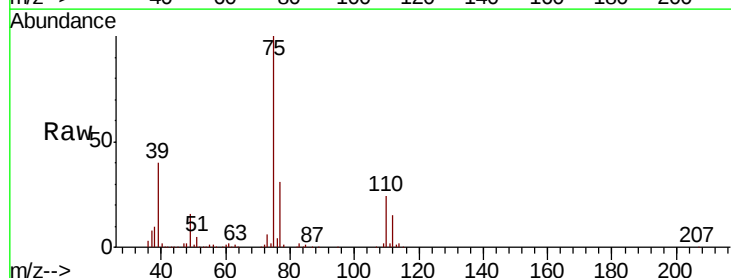
Tgt Ion: 75 Resp: 541780

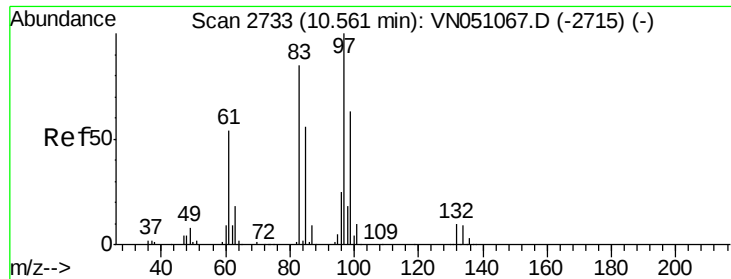
Ion Ratio Lower Upper

75 100

77 31.4 25.7 38.5

39 40.1 31.9 47.9





#55

1,1,2-Trichloroethane

Concen: 51.05 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

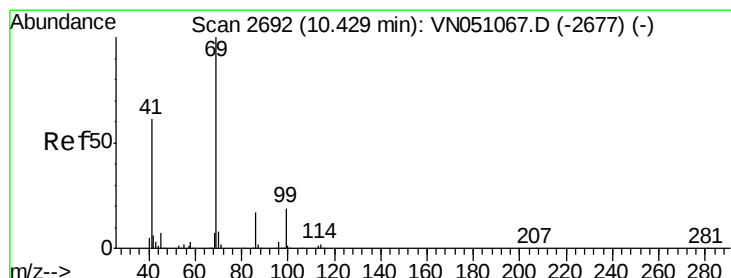
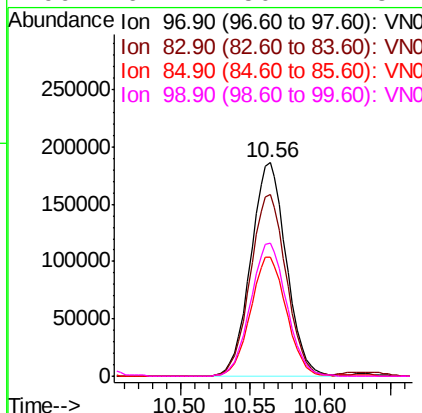
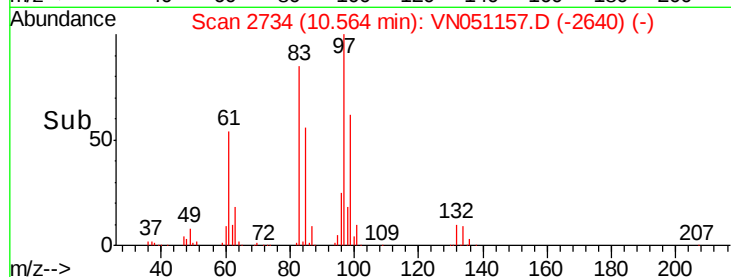
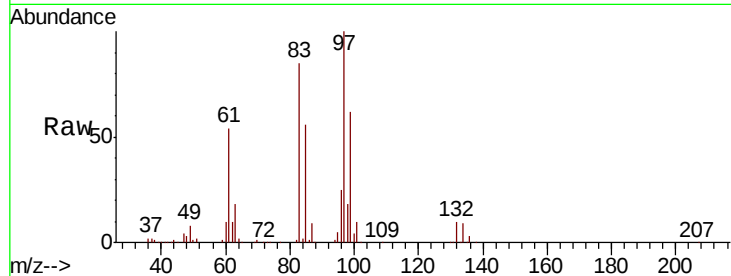
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	328654
Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.2	102.2
85	55.7	44.8	67.2
99	62.2	50.2	75.4

Manual Integrations
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#56

Ethyl methacrylate

Concen: 50.53 ug/l

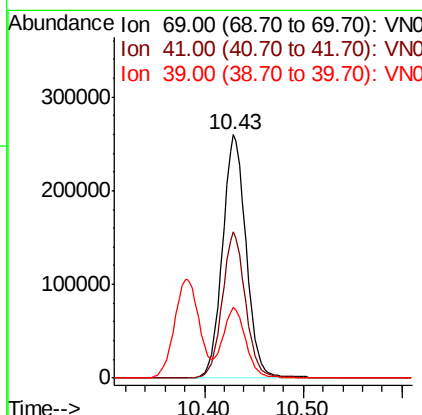
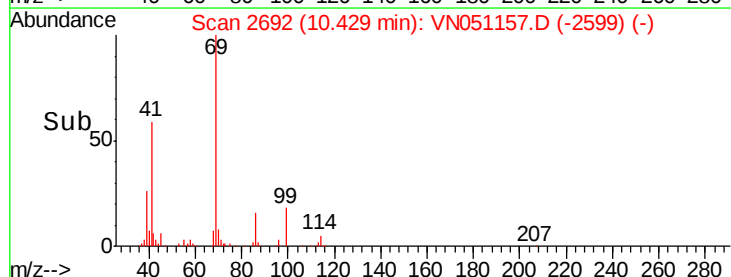
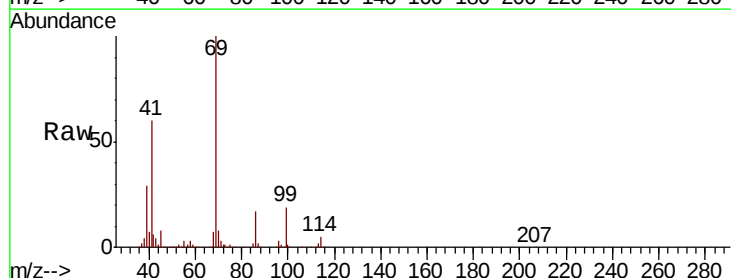
RT: 10.43 min Scan# 2692

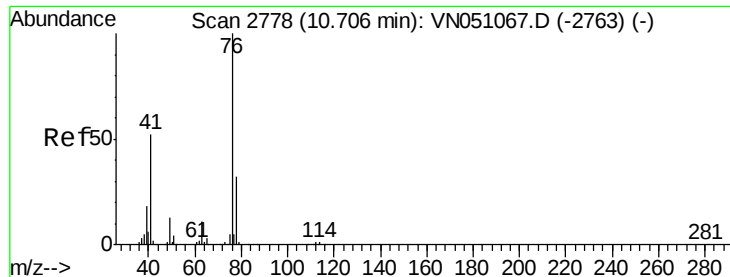
Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion:	69	Resp:	436729
Ion	Ratio	Lower	Upper
69	100		
41	58.9	47.8	71.8
39	28.5	23.0	34.4





#57

1,3-Dichloropropane

Concen: 51.17 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 546105

Ion Ratio Lower Upper

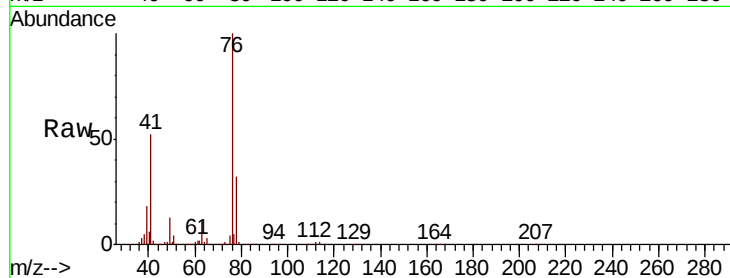
76 100

78 31.8 26.1 39.1

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Abundance Ion 75.90 (75.60 to 76.60): VN051067.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN051067.D (-2763) (-)

10.71

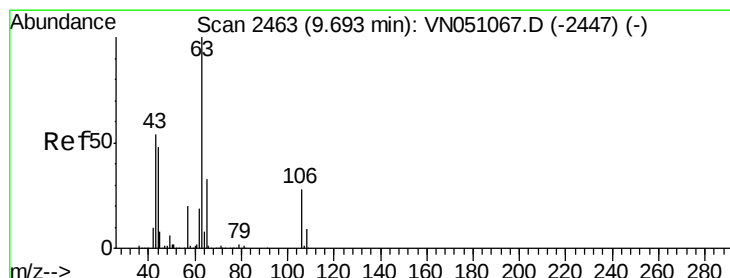
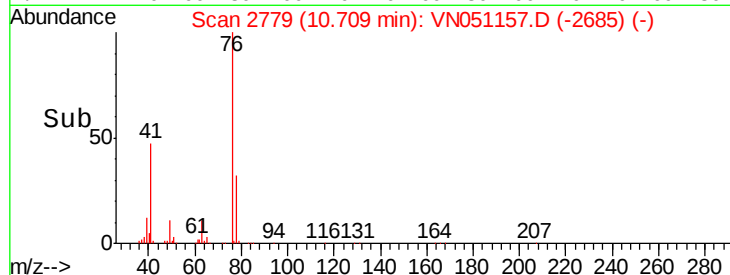
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 246.05 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051157.D

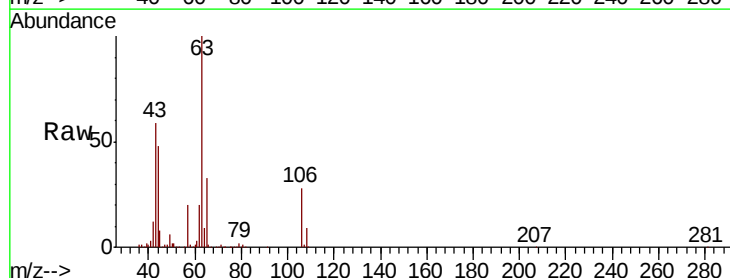
Acq: 13 Sep 2018 8:27

Tgt Ion: 63 Resp: 892612

Ion Ratio Lower Upper

63 100

106 28.2 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN051067.D (-2447) (-)

Ion 105.90 (105.60 to 106.60): VN051067.D (-2447) (-)

9.70

600000

500000

400000

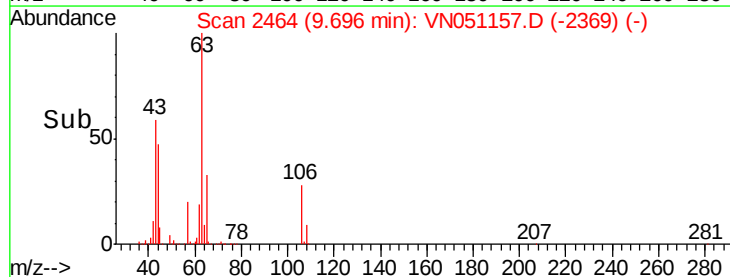
300000

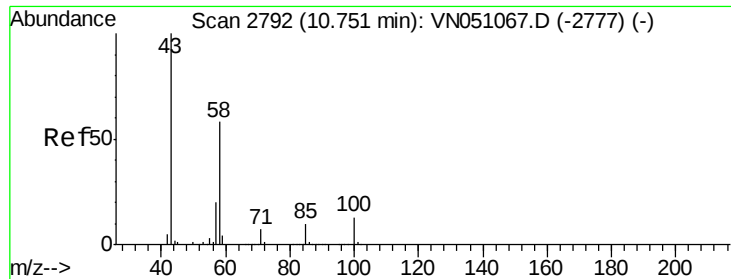
200000

100000

0

Time-->





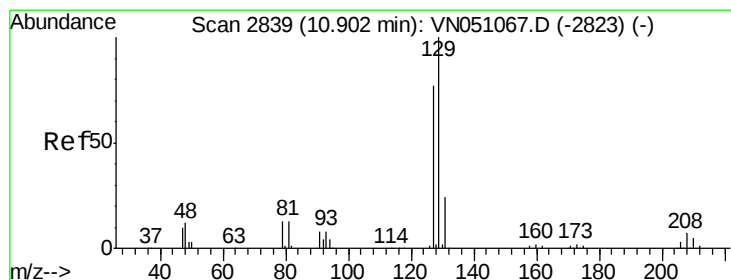
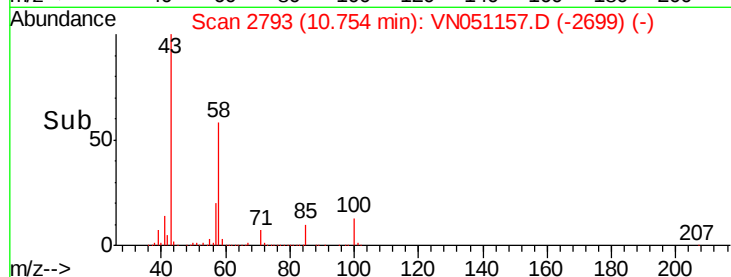
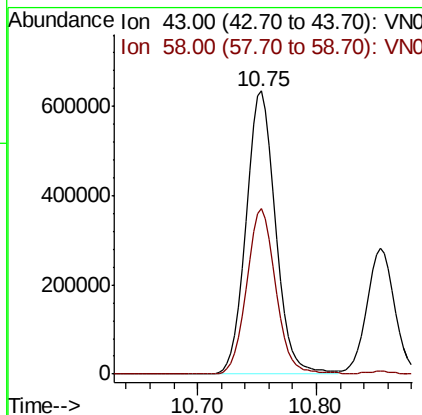
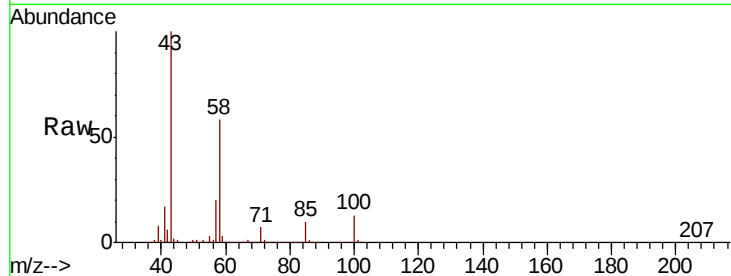
#59
2-Hexanone
Concen: 293.42 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1084587
Ion Ratio Lower Upper
43 100
58 58.1 29.3 88.0

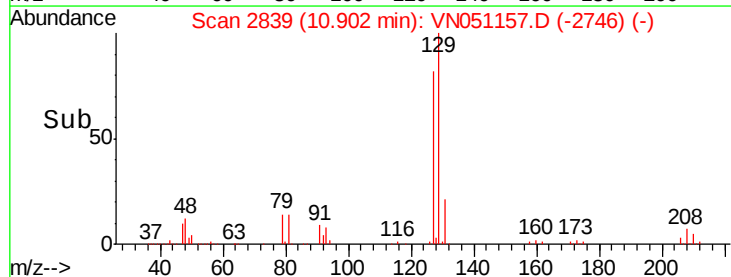
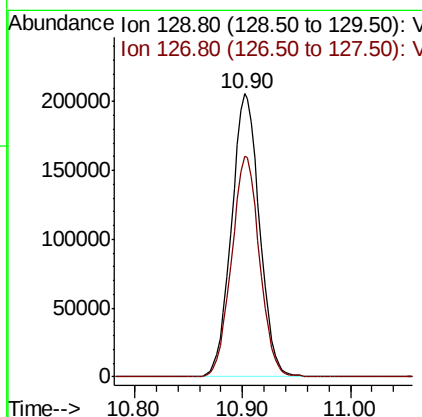
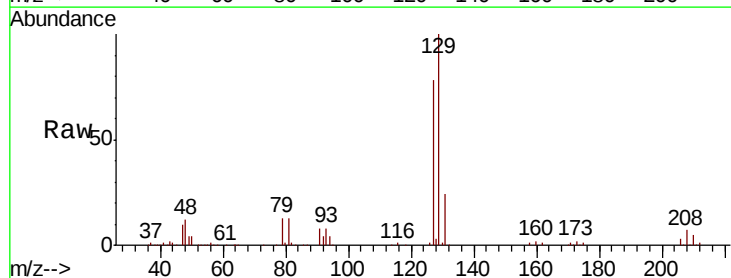
Manual Integrations
APPROVED

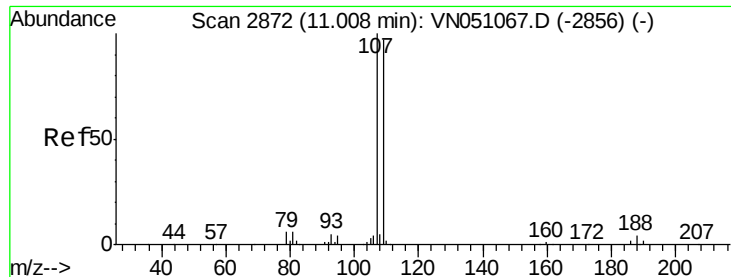
MMDadoda
9/14/2018 11:46:56 AM



#60
Dibromochloromethane
Concen: 51.37 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 129 Resp: 372733
Ion Ratio Lower Upper
129 100
127 77.8 38.5 115.5





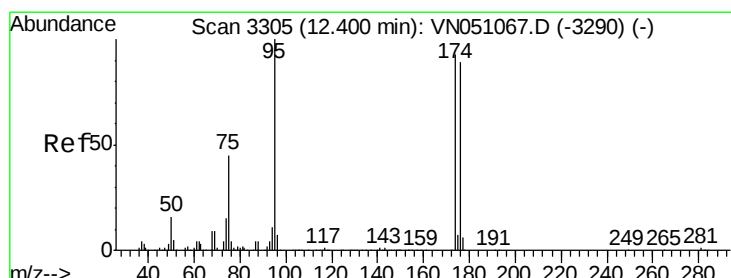
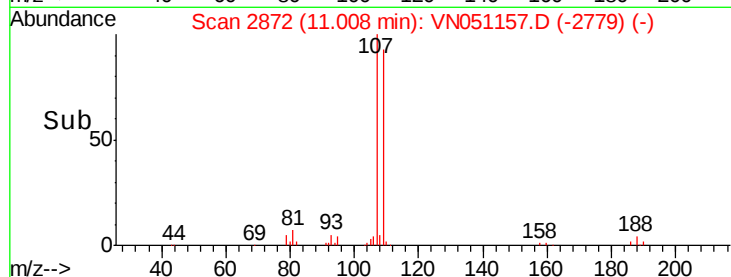
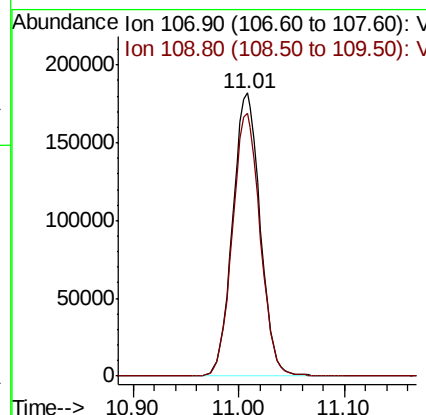
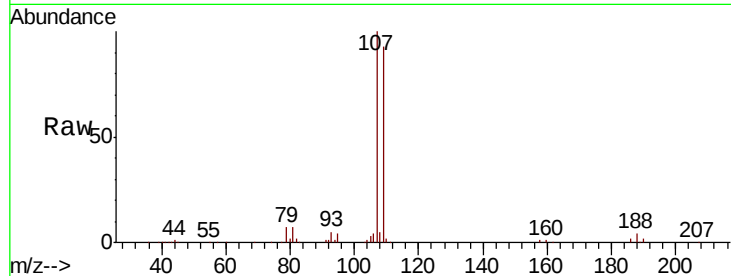
#61
 1,2-Dibromoethane
 Concen: 52.15 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	328190		
109	93.8	76.0	114.0	

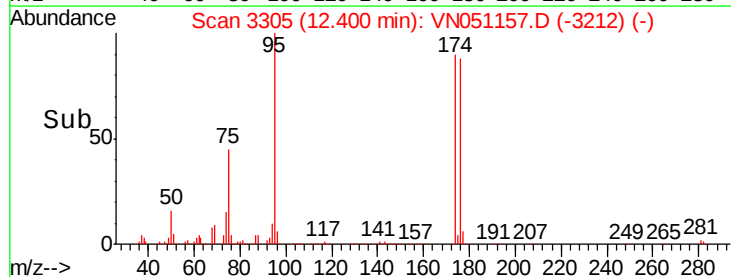
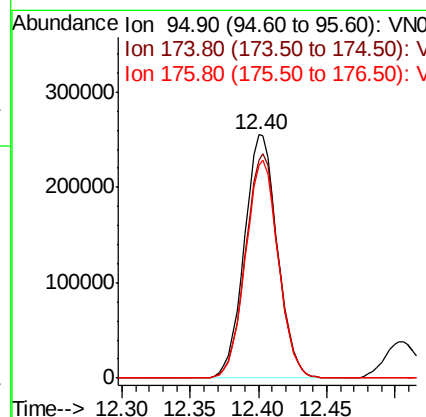
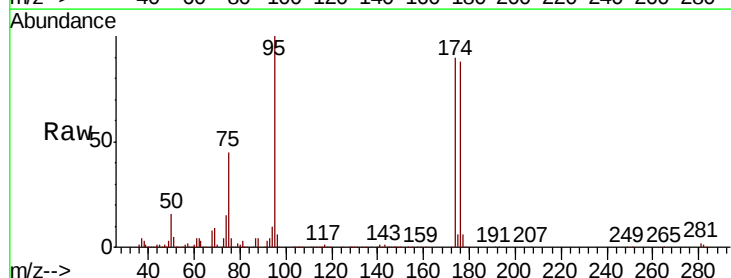
Manual Integrations
 APPROVED

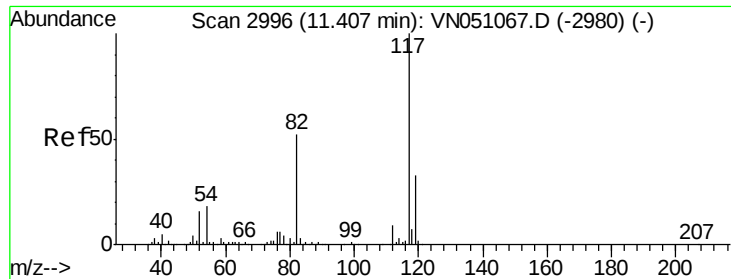
MMDadoda
 9/14/2018 11:46:56 AM



#62
 4-Bromofluorobenzene
 Concen: 51.53 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	426994		
174	92.4	0.0	184.8	
176	89.1	0.0	178.6	





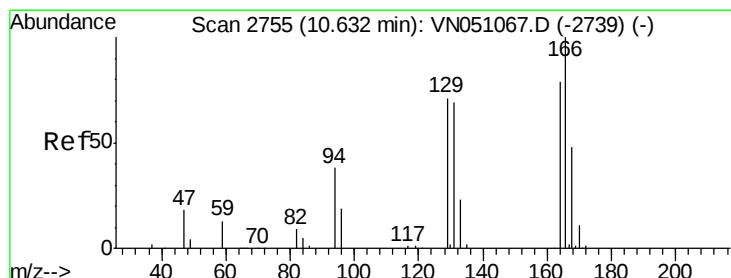
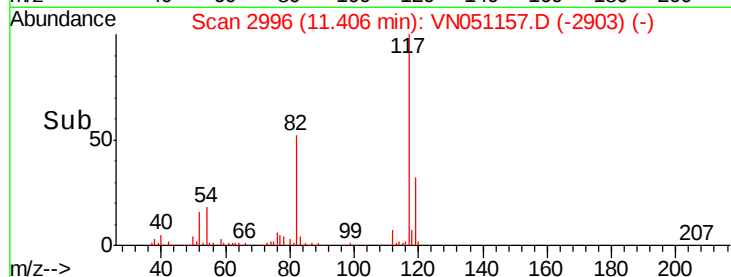
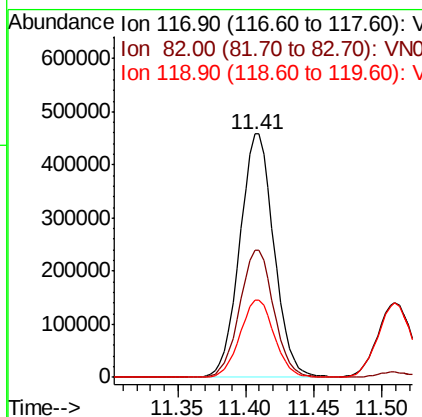
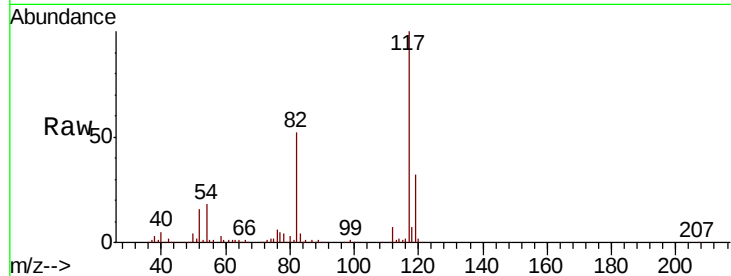
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	41.8	62.6
119	31.8	26.2	39.2

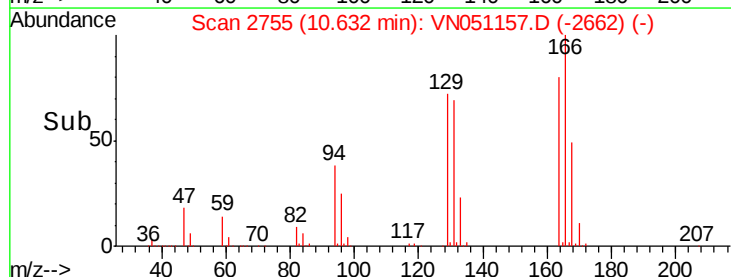
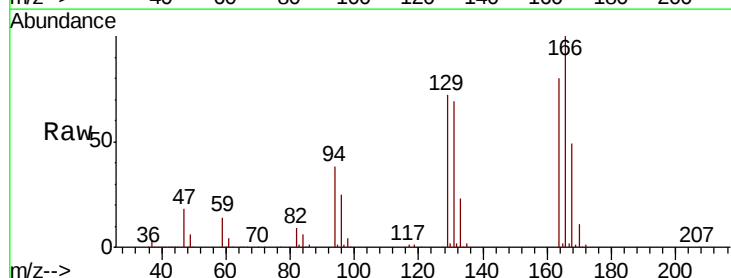
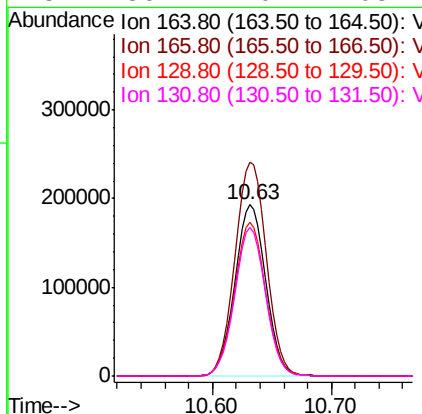
Manual Integrations
APPROVED

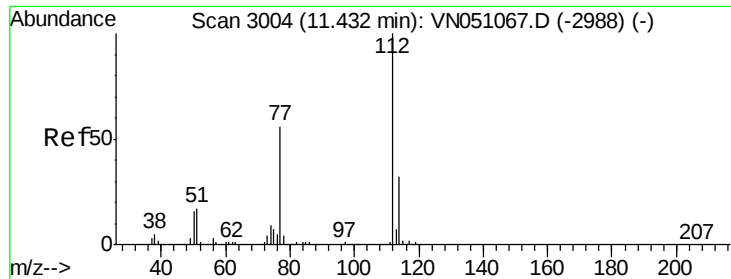
MMDadoda
9/14/2018 11:46:56 AM



#64
Tetrachloroethene
Concen: 47.82 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	101.3	151.9
129	89.4	72.2	108.2
131	86.4	70.2	105.2





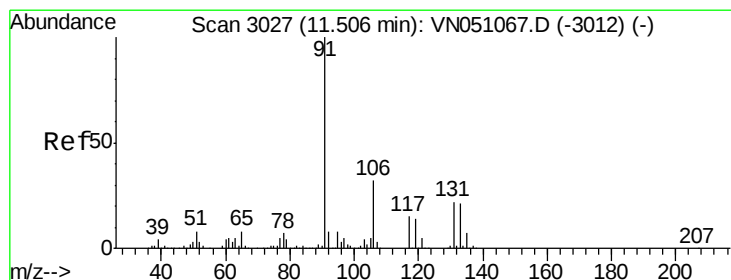
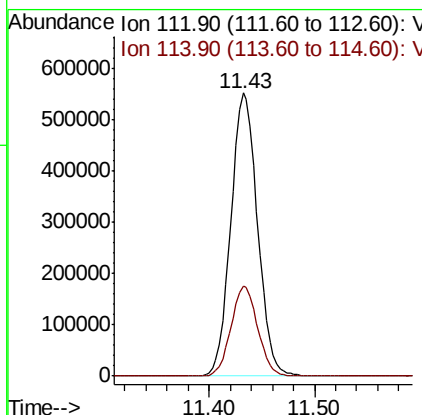
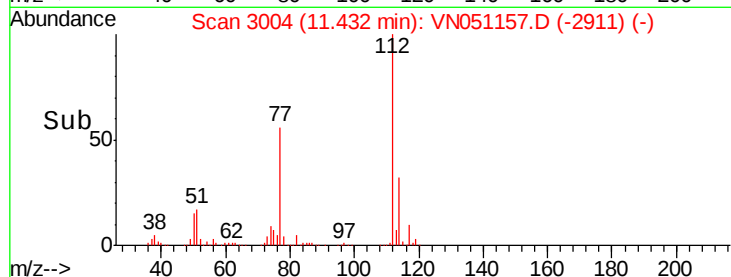
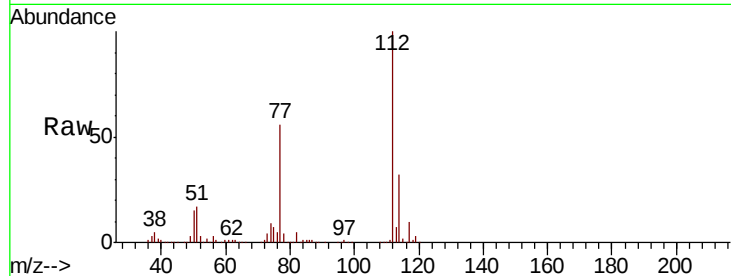
#65
Chlorobenzene
Concen: 48.01 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6

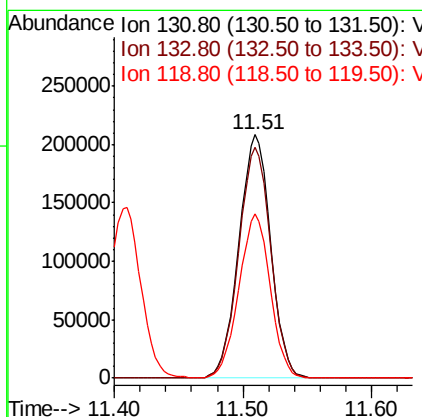
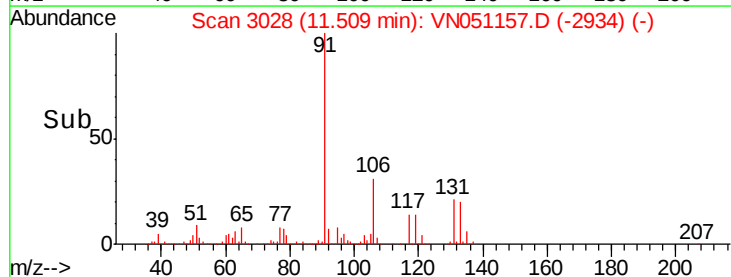
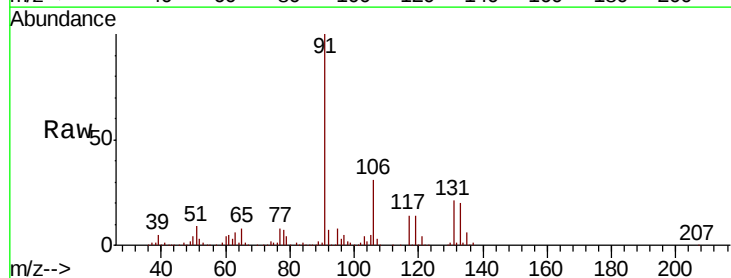
Manual Integrations
APPROVED

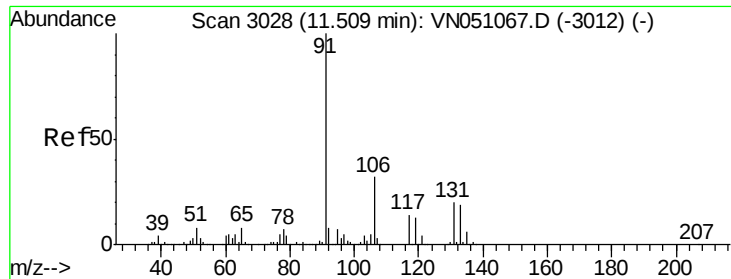
MMDadoda
9/14/2018 11:46:56 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.34 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.5	142.6
119	66.7	33.2	99.6





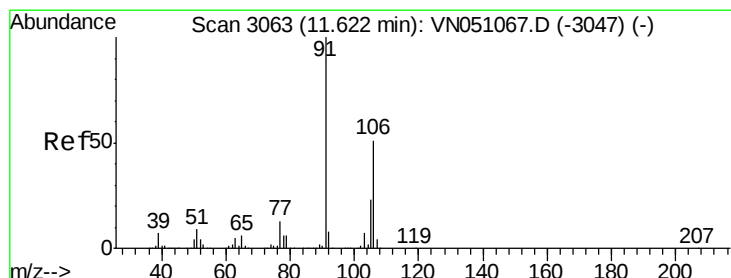
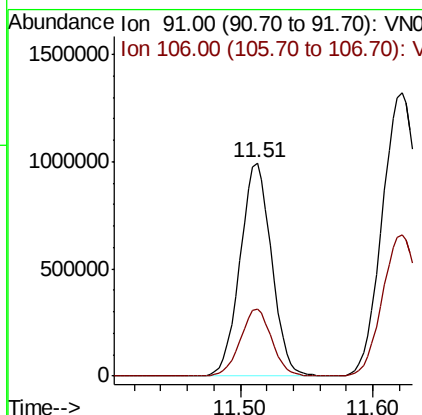
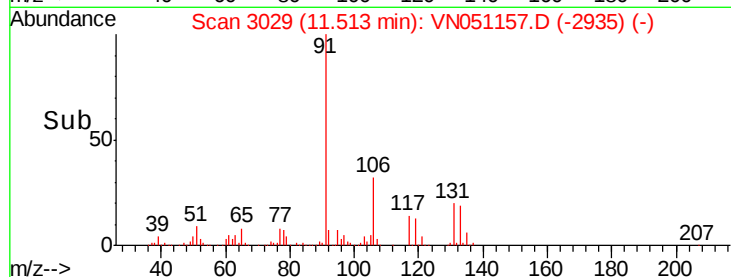
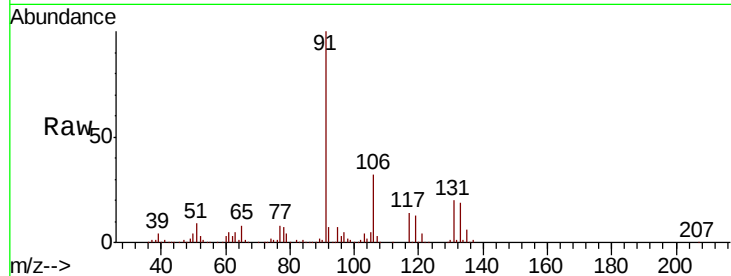
#67
Ethyl Benzene
Concen: 50.38 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1639600
Ion Ratio Lower Upper
91 100
106 31.7 25.4 38.2

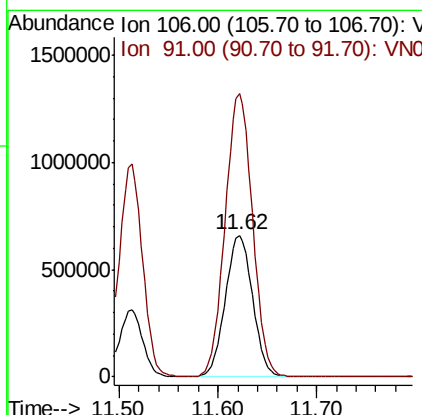
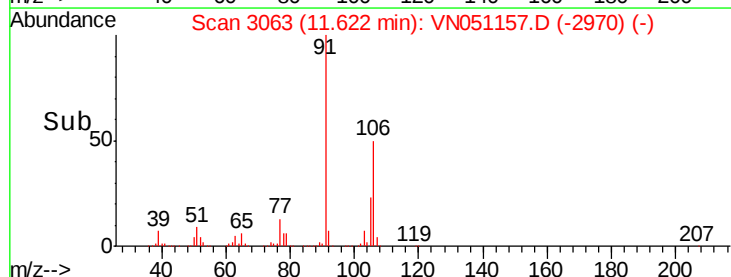
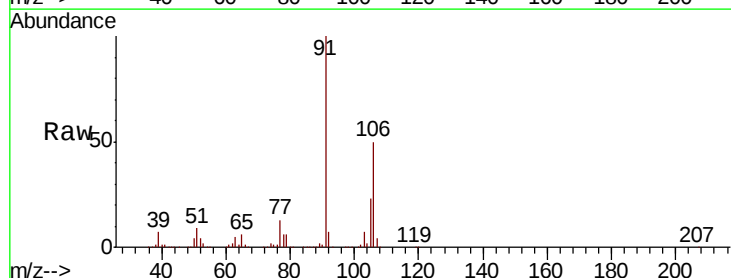
Manual Integrations
APPROVED

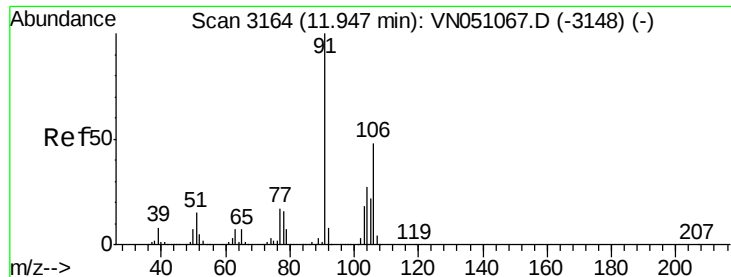
MMDadoda
9/14/2018 11:46:56 AM



#68
m/p-Xylenes
Concen: 102.29 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 106 Resp: 1279118
Ion Ratio Lower Upper
106 100
91 200.8 159.8 239.6





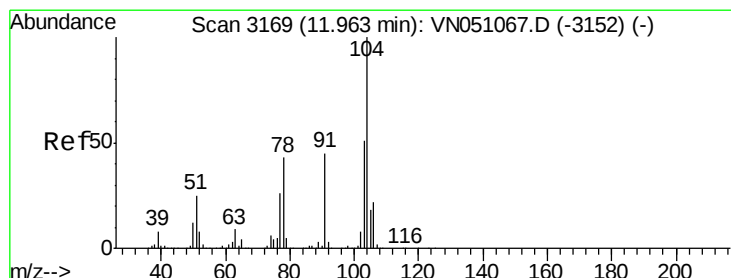
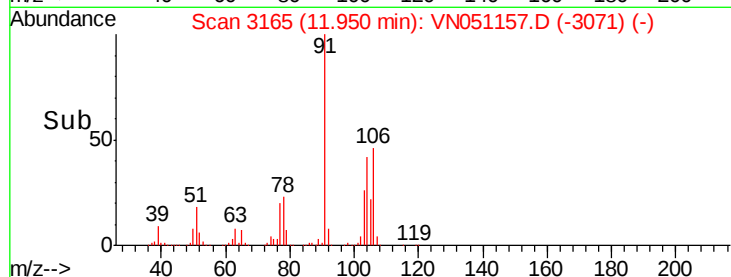
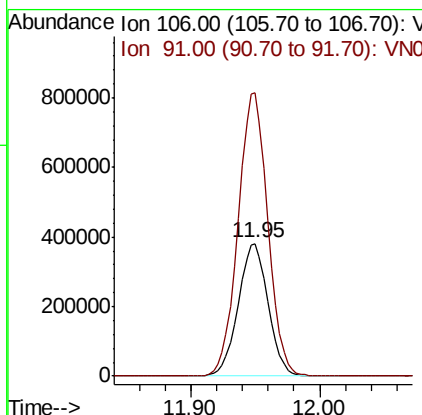
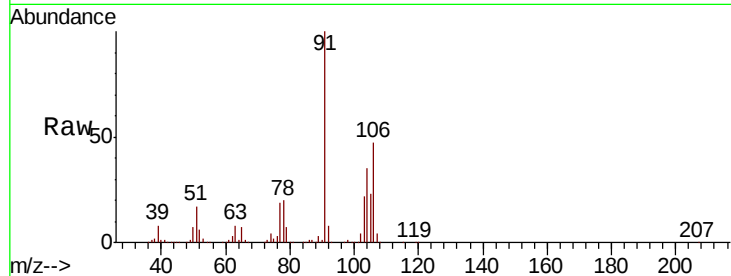
#69
o-Xylene
Concen: 50.50 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.8	105.1	315.1

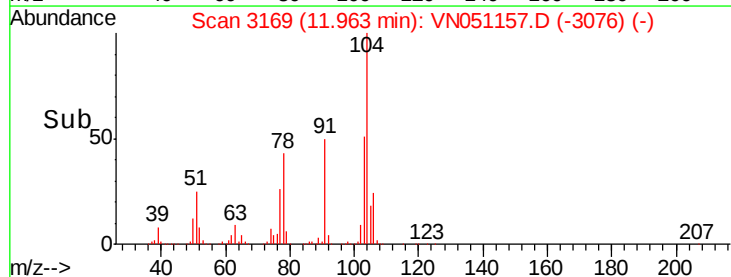
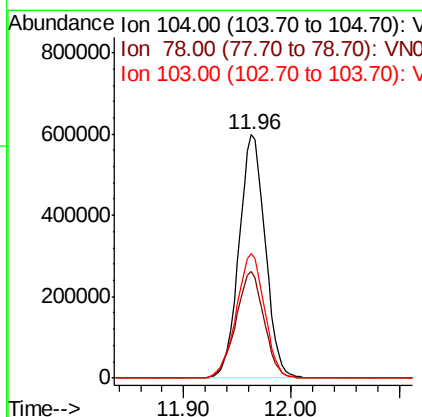
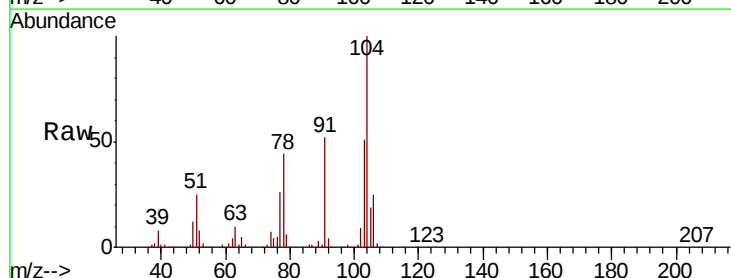
Manual Integrations
APPROVED

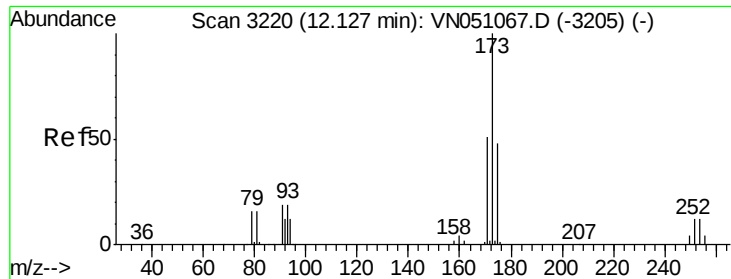
MMDadoda
9/14/2018 11:46:56 AM



#70
Styrene
Concen: 54.05 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.3	37.7	56.5
103	55.1	44.6	67.0





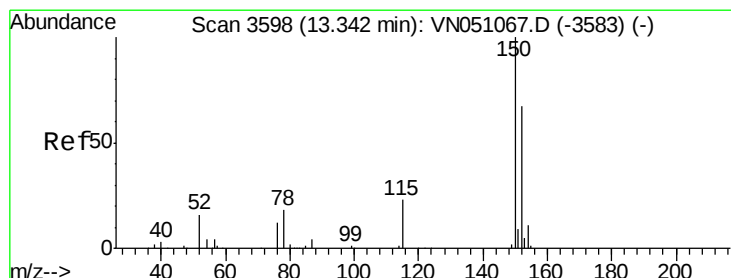
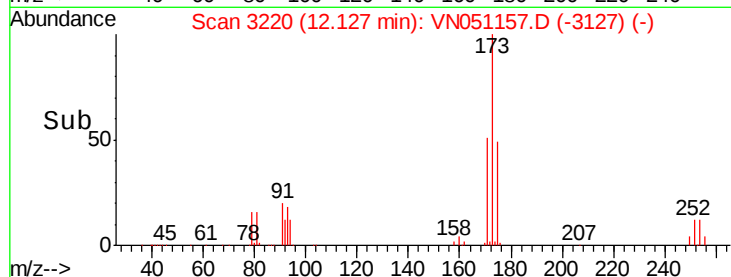
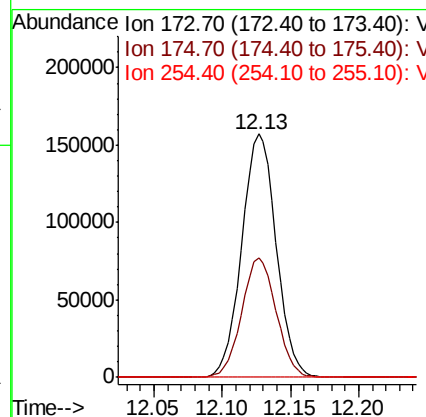
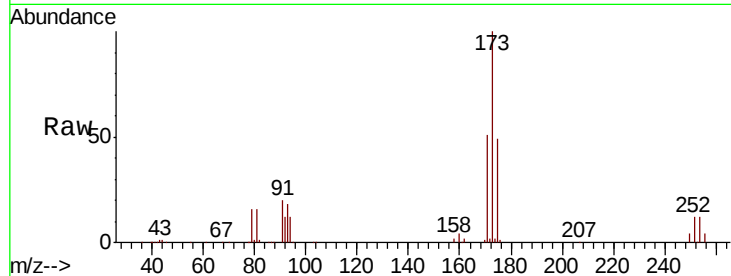
#71
Bromoform
Concen: 54.07 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	72.9
254	0.1	0.0	0.0

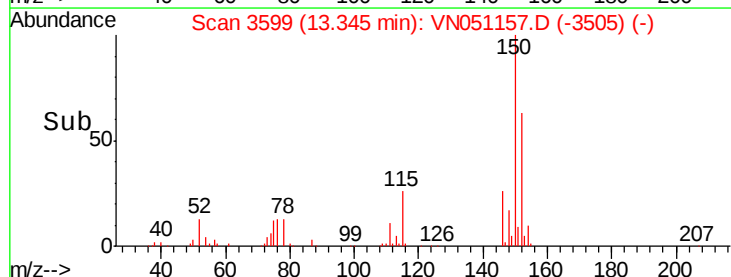
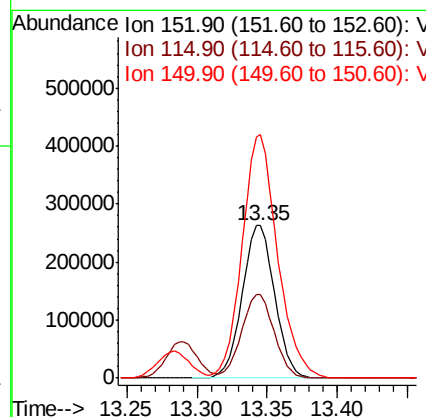
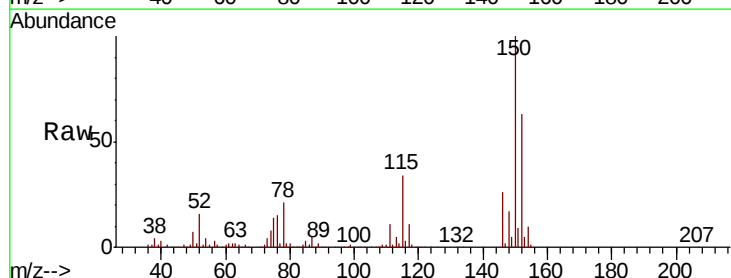
Manual Integrations
APPROVED

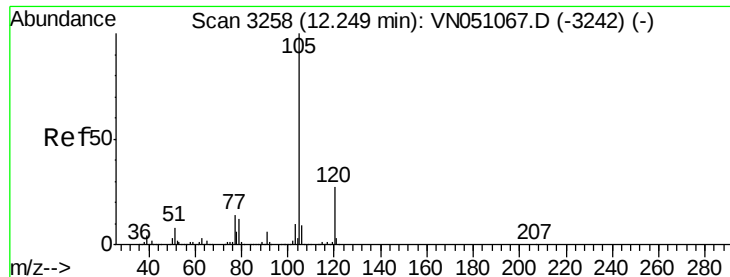
MMDadoda
9/14/2018 11:46:56 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.2	84.7
150	173.7	0.0	349.0





#73

Isopropylbenzene

Concen: 46.28 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1640372

Ion Ratio Lower Upper

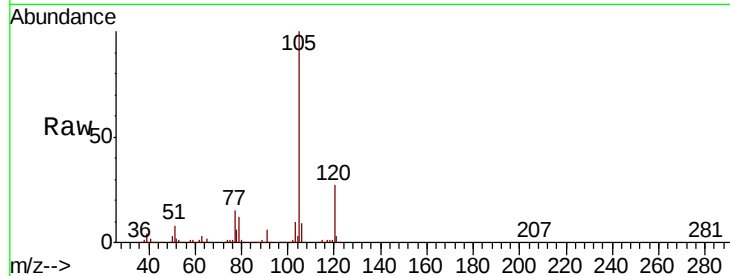
105 100

120 26.9 13.6 40.7

Manual Integrations
APPROVED

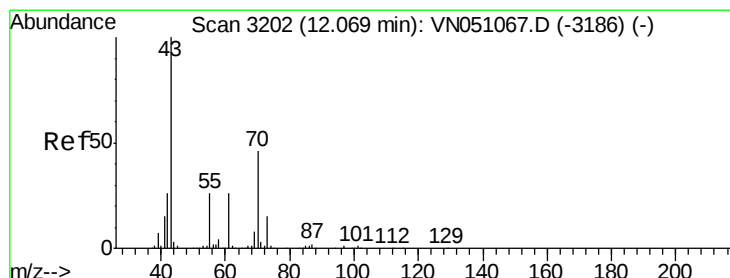
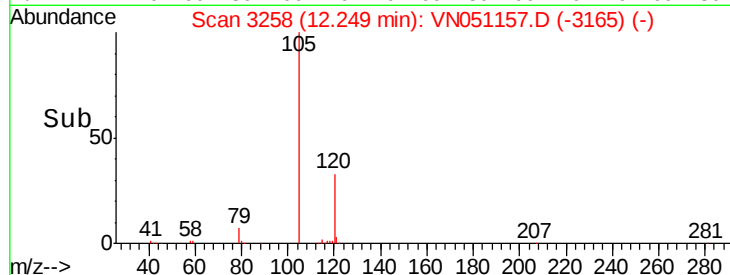
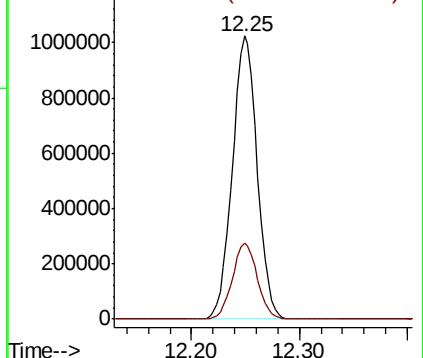
MMDadoda

9/14/2018 11:46:56 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.15 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion: 43 Resp: 456331

Ion Ratio Lower Upper

43 100

70 46.0 37.0 55.4

55 27.1 21.3 31.9

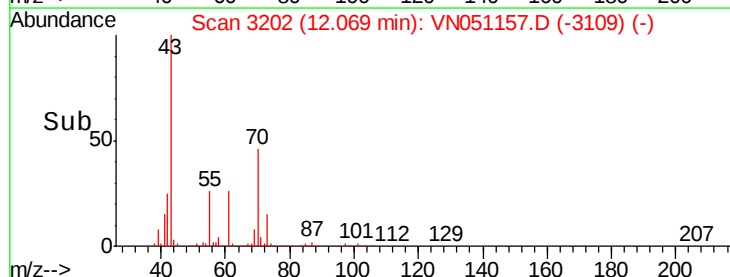
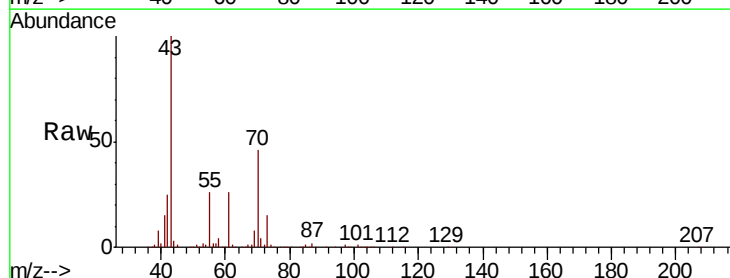
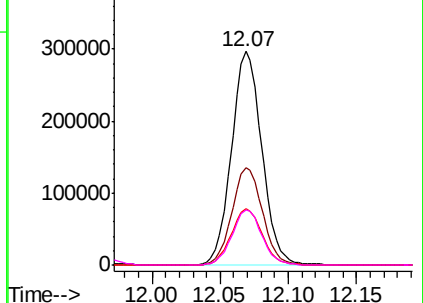
61 25.7 20.7 31.1

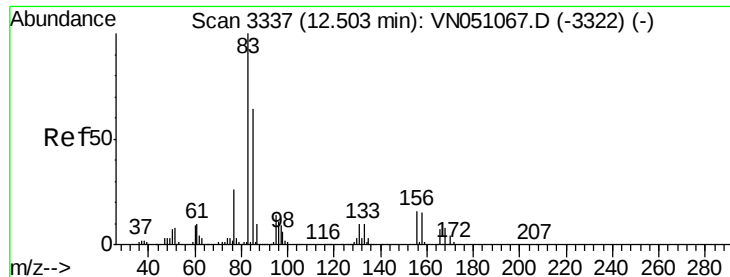
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 54.34 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 440803

Ion Ratio Lower Upper

83 100

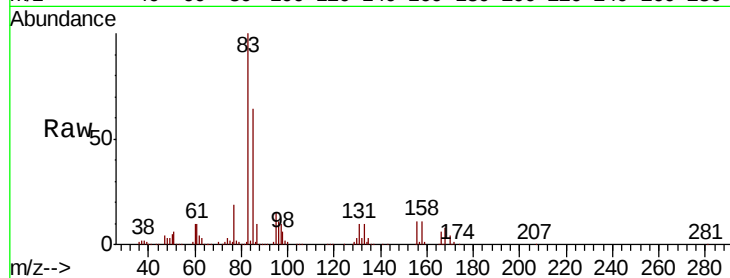
131 10.5 5.3 16.1

85 63.7 32.3 96.8

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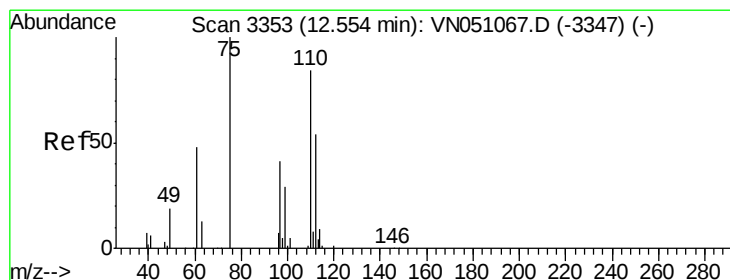
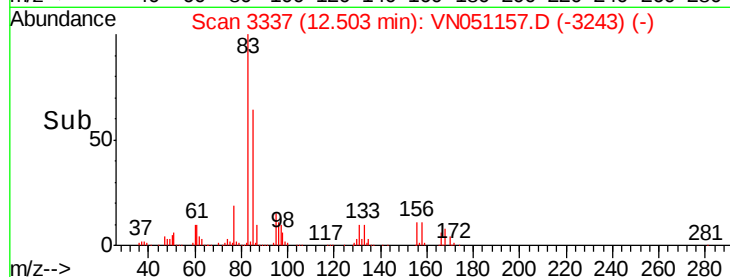
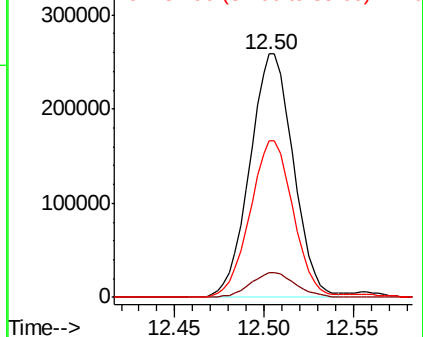
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Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 53.01 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051157.D

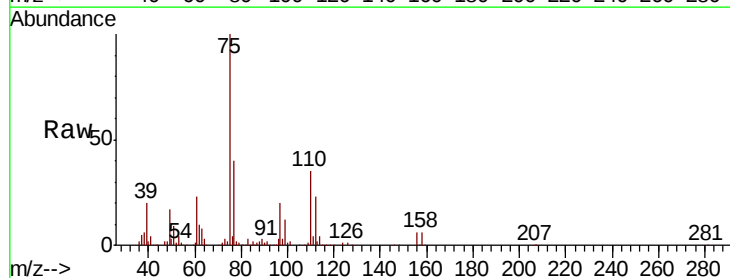
Acq: 13 Sep 2018 8:27

Tgt Ion: 75 Resp: 346806

Ion Ratio Lower Upper

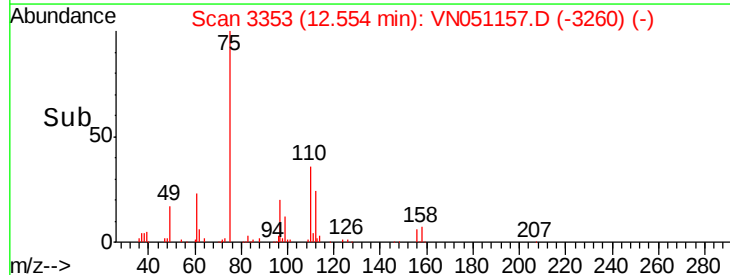
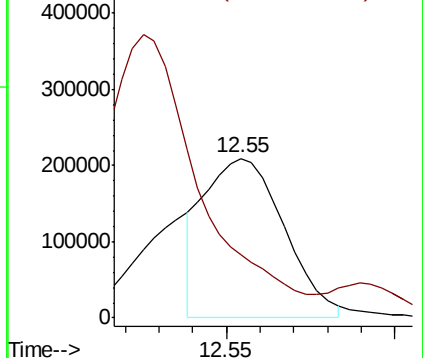
75 100

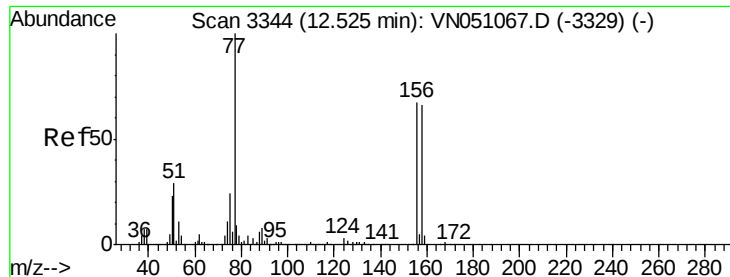
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 44.91 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

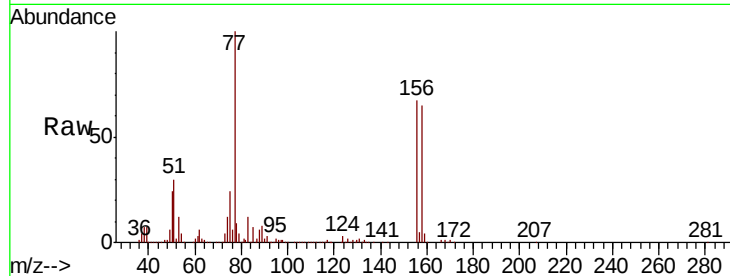
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	427577
Ion Ratio	Lower	Upper	
156	100		
77	176.8	87.5	262.6
158	97.6	49.0	147.2

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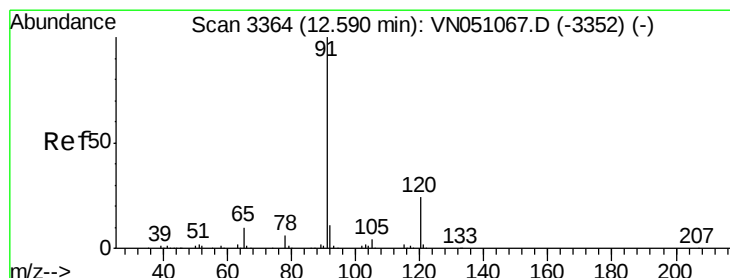
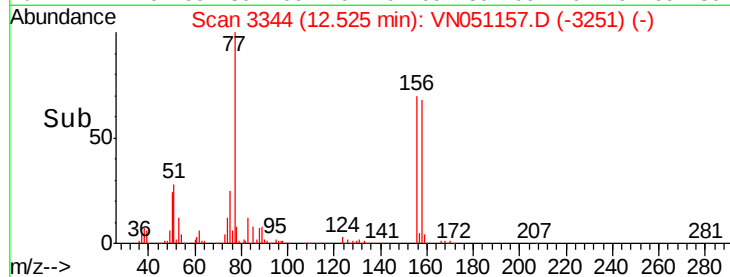
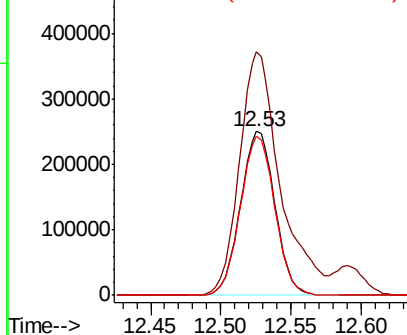
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.55 ug/l

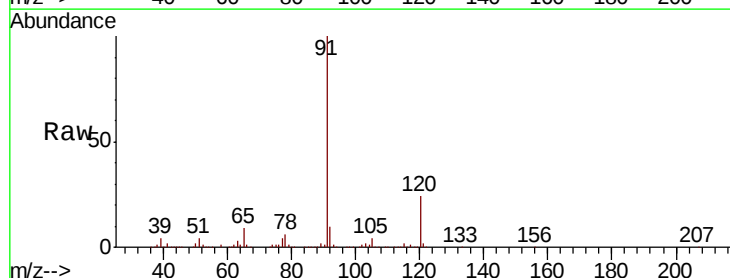
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051157.D

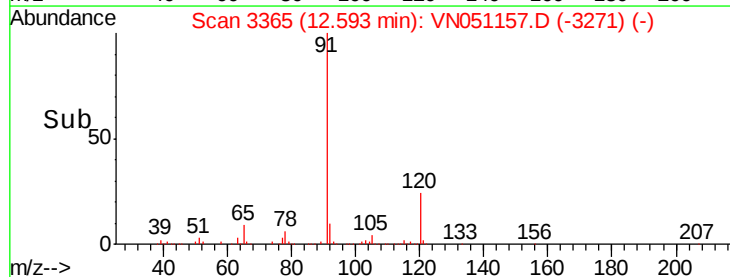
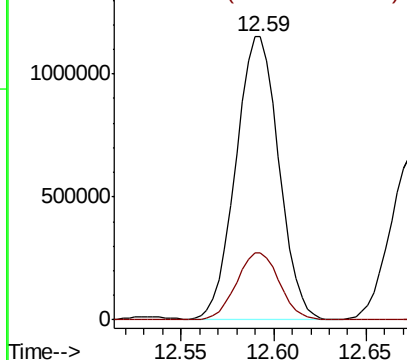
Acq: 13 Sep 2018 8:27

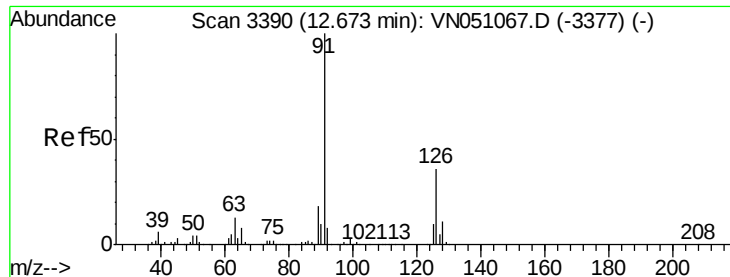
Tgt Ion:	91	Resp:	1852793
Ion Ratio	Lower	Upper	
91	100		
120	23.7	12.0	36.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 45.39 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1105444

Ion Ratio Lower Upper

91 100

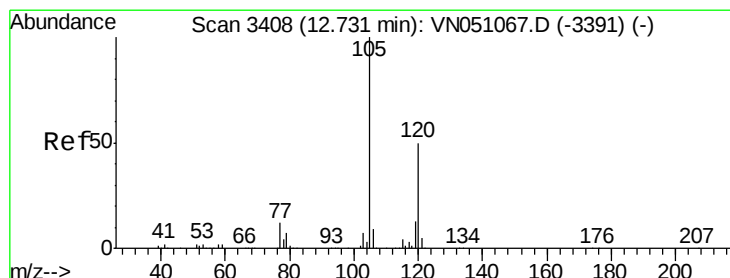
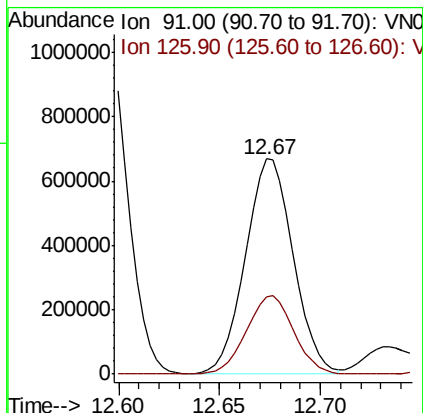
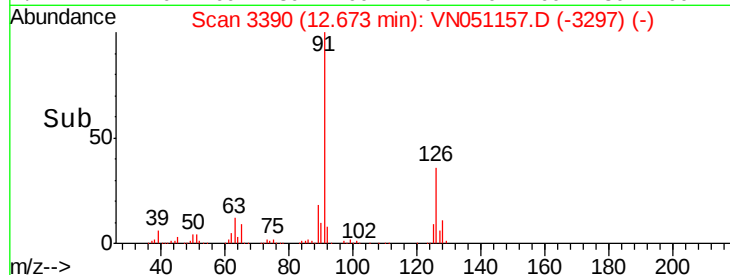
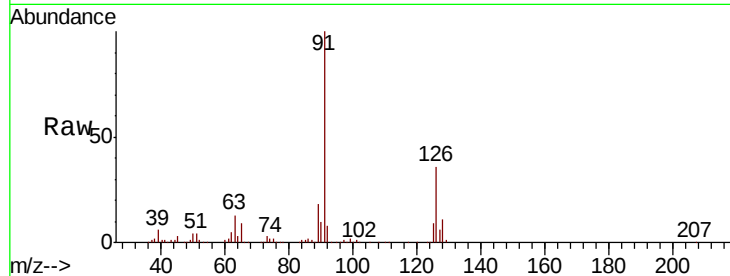
126 36.1 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 47.57 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051157.D

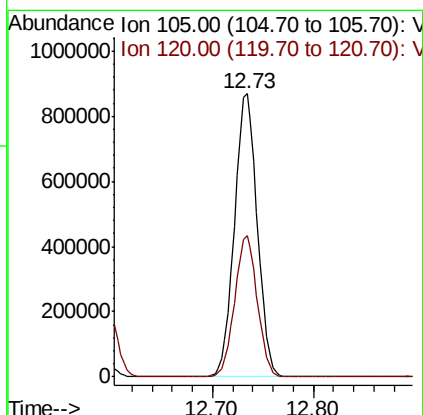
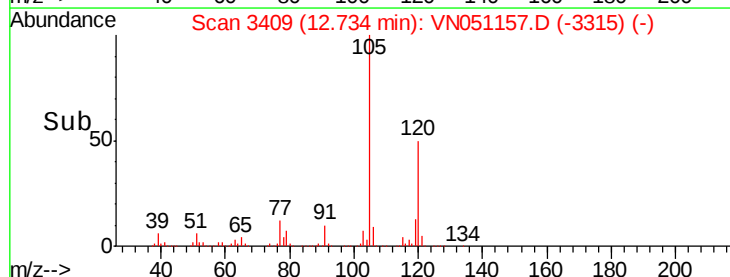
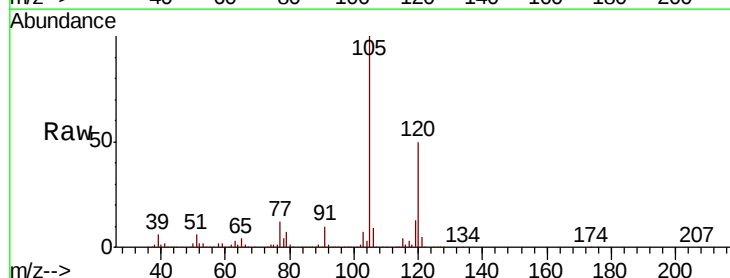
Acq: 13 Sep 2018 8:27

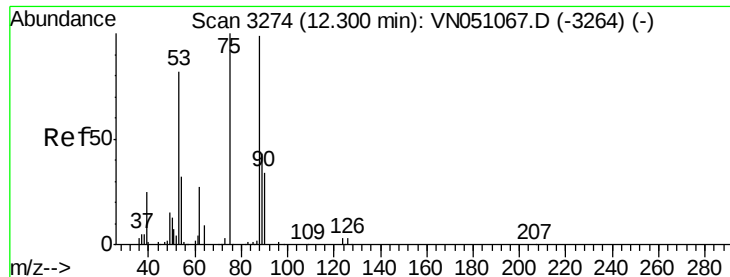
Tgt Ion: 105 Resp: 1363386

Ion Ratio Lower Upper

105 100

120 49.4 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 50.66 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

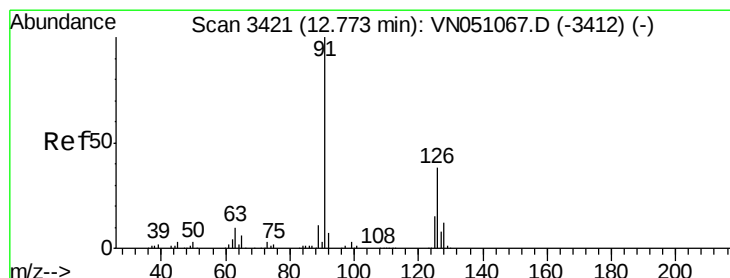
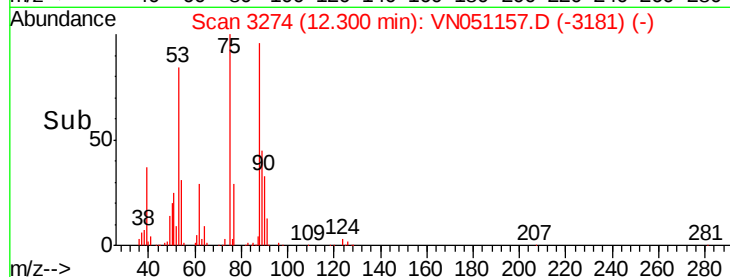
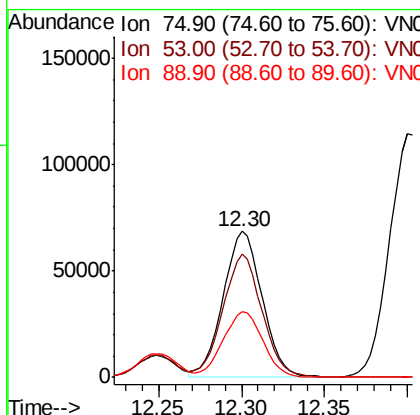
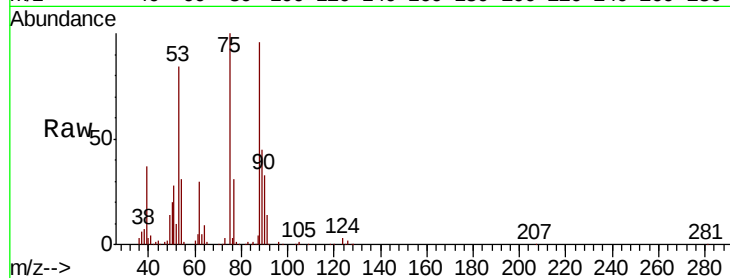
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	112741
Ion	Ratio	Lower	Upper
75	100		
53	84.9	67.8	101.8
89	46.1	36.0	54.0

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#82

4-Chlorotoluene

Concen: 46.37 ug/l

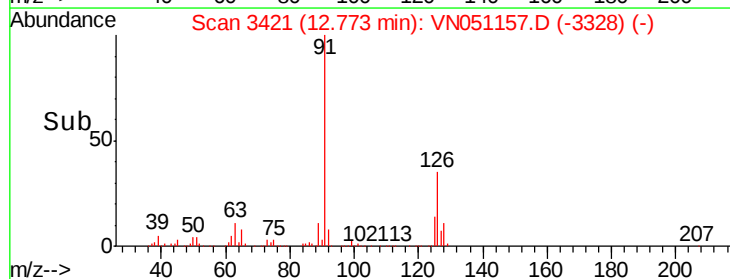
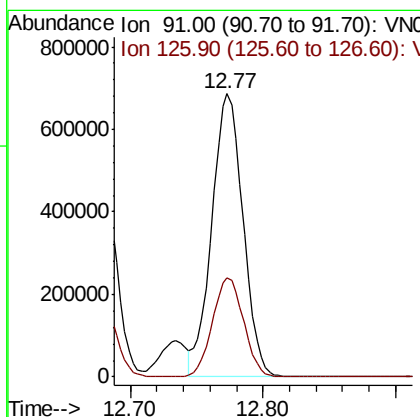
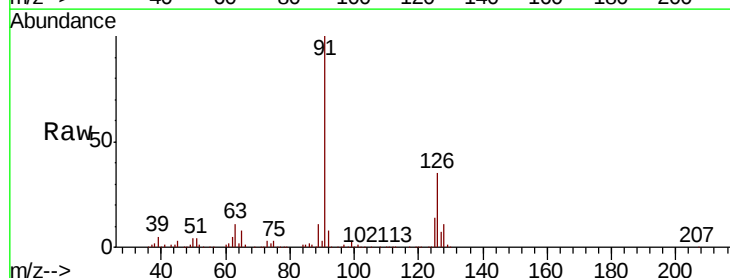
RT: 12.77 min Scan# 3421

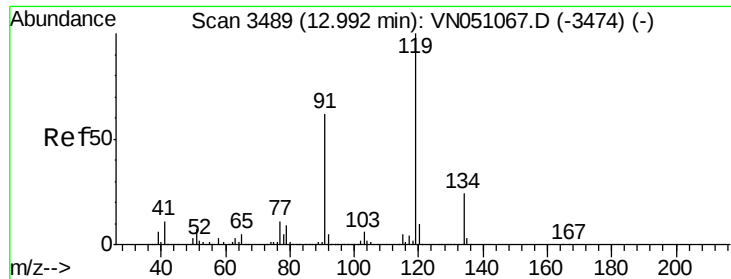
Delta R.T. -0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion:	91	Resp:	1120857
Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.6	52.8





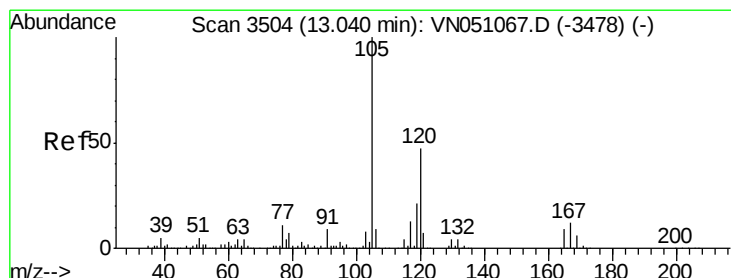
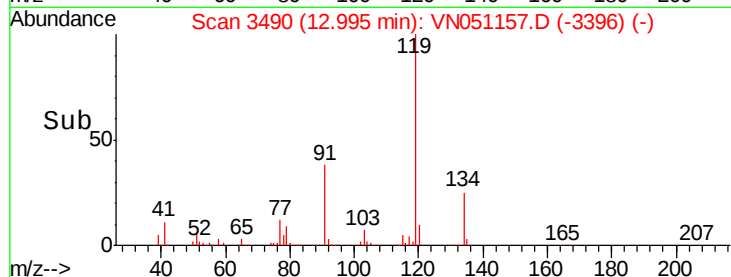
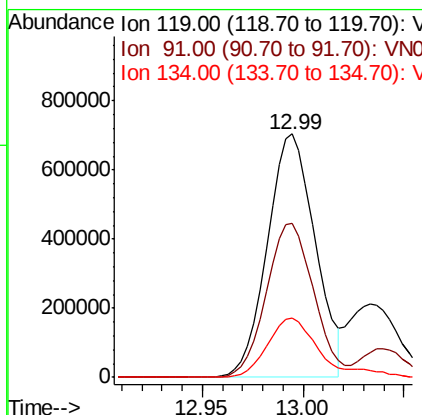
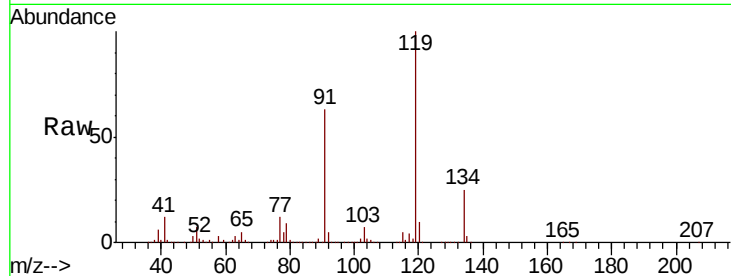
#83
 tert-Butylbenzene
 Concen: 45.65 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.8	92.3
134	26.9	13.2	39.6

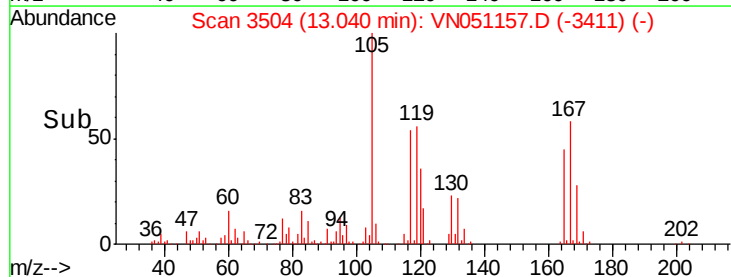
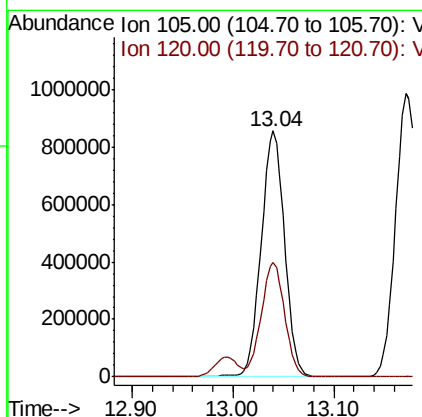
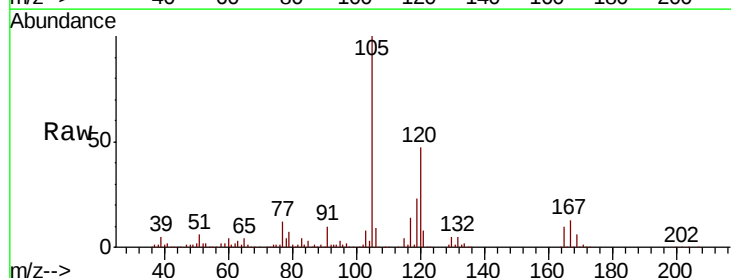
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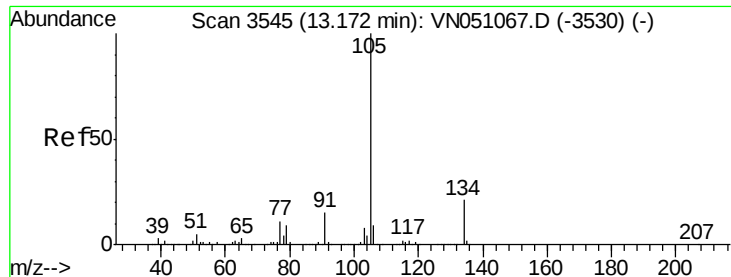
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#84
 1,2,4-Trimethylbenzene
 Concen: 48.87 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.3	69.8





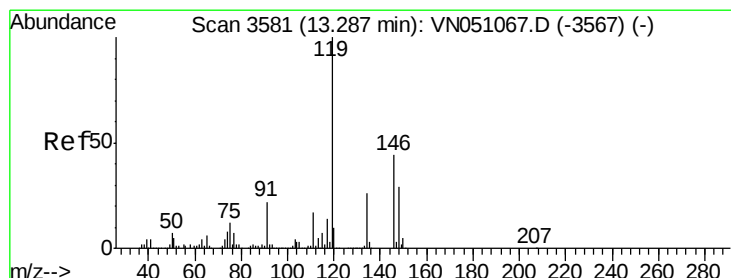
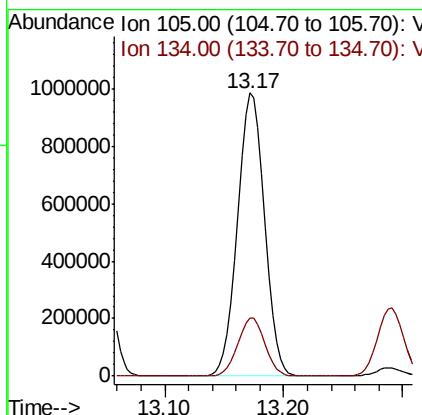
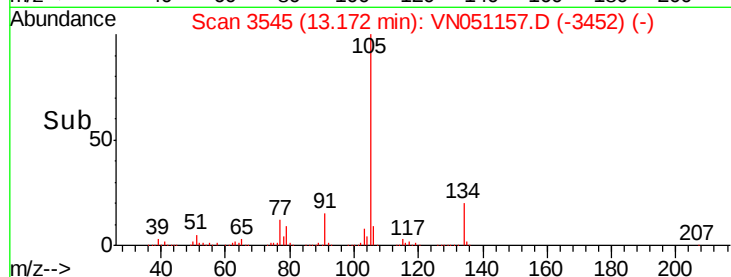
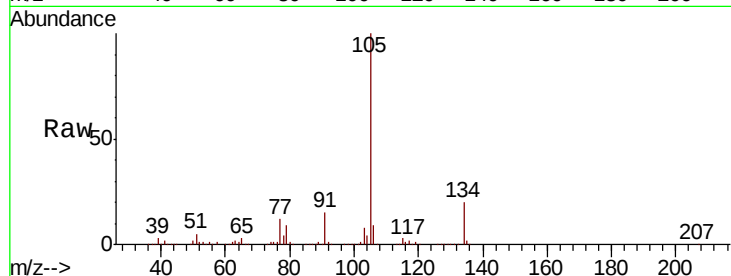
#85
 sec-Butylbenzene
 Concen: 47.71 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1548038
 Ion Ratio Lower Upper
 105 100
 134 20.6 10.4 31.4

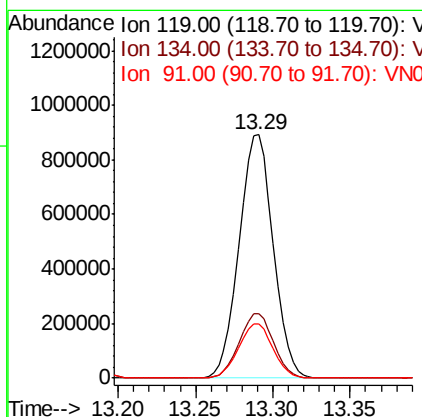
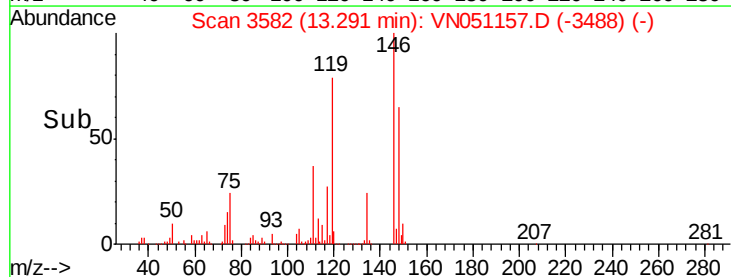
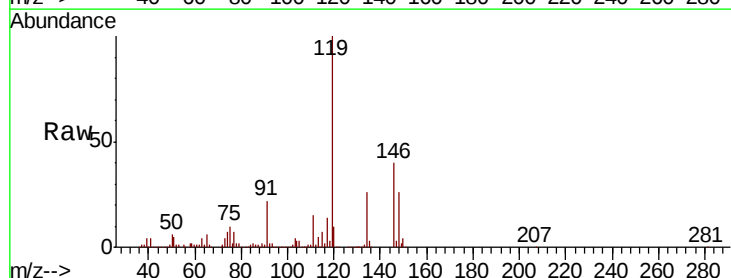
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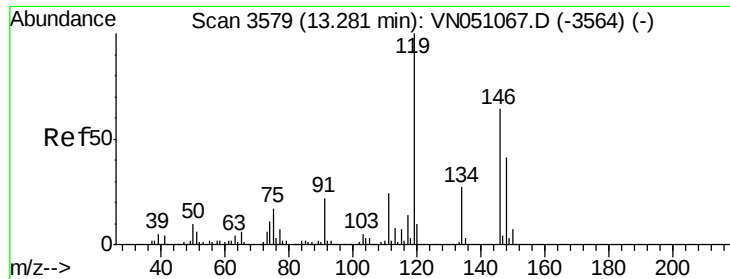
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#86
 p-Isopropyltoluene
 Concen: 49.58 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion:119 Resp: 1364112
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.5 40.4
 91 22.2 10.9 32.9





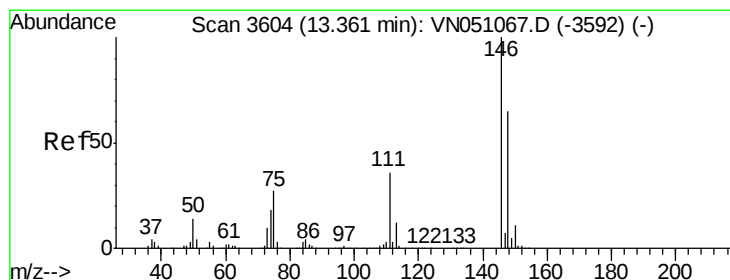
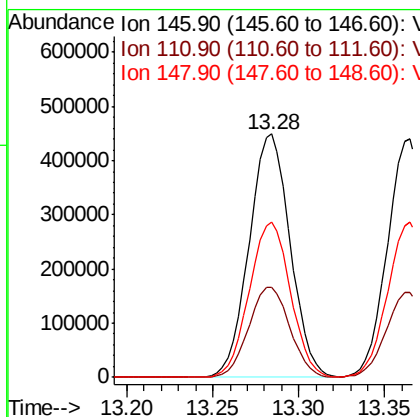
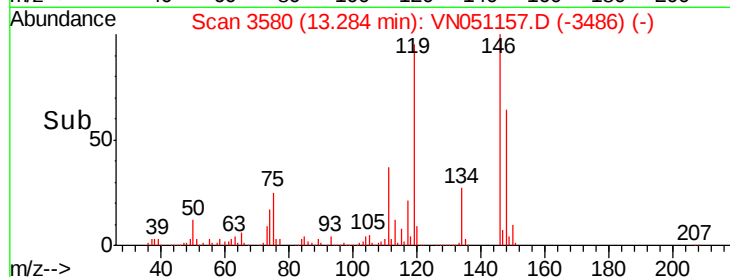
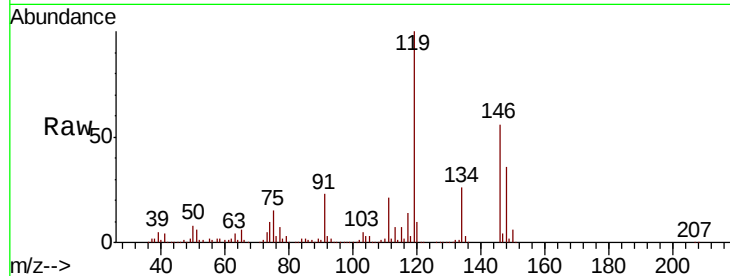
#87
 1,3-Dichlorobenzene
 Concen: 46.03 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	19.1	57.1
148	64.1	32.2	96.6

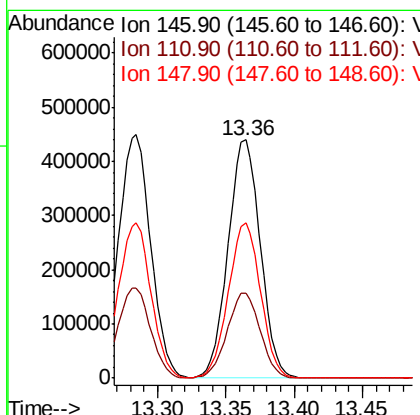
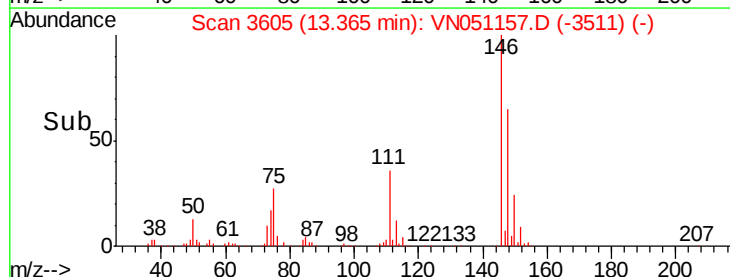
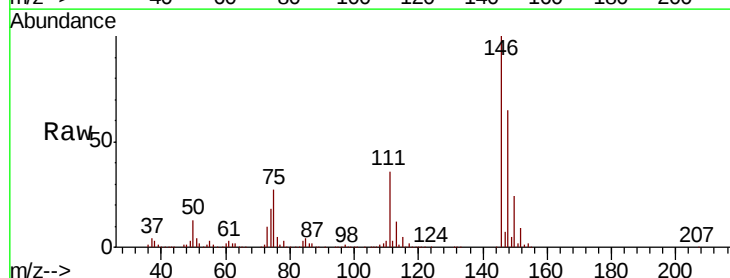
Manual Integrations
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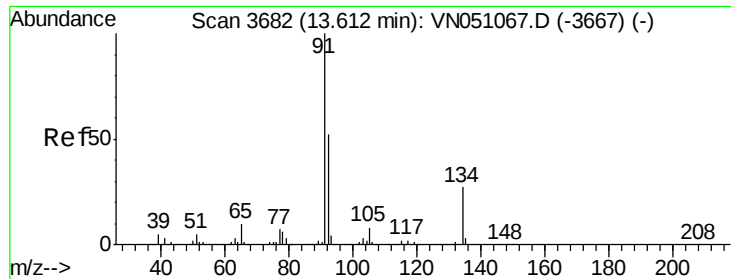
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#88
 1,4-Dichlorobenzene
 Concen: 48.76 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.4	55.0
148	64.9	32.2	96.6





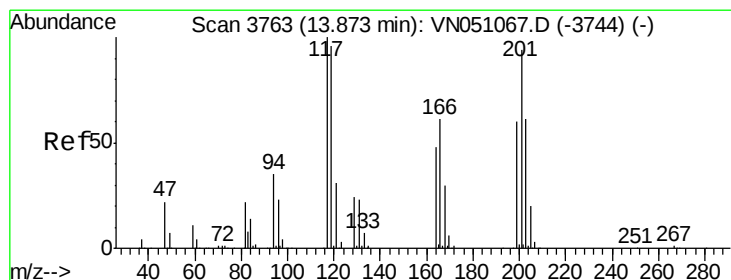
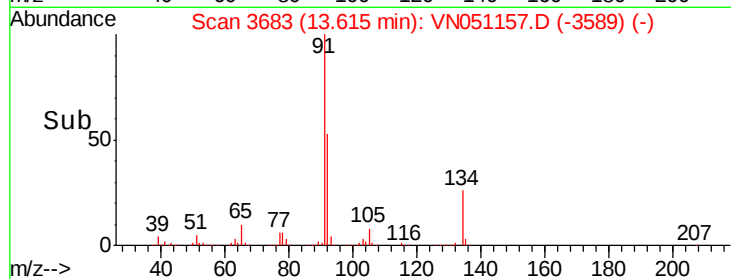
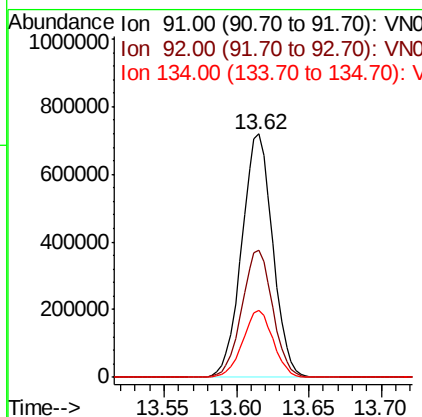
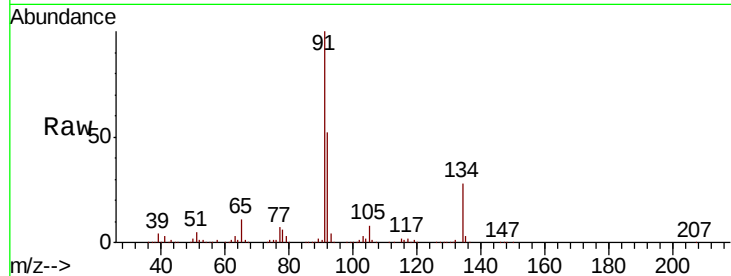
#89
n-Butylbenzene
Concen: 49.88 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1068071
Ion Ratio Lower Upper
91 100
92 52.1 26.2 78.6
134 27.2 13.7 41.1

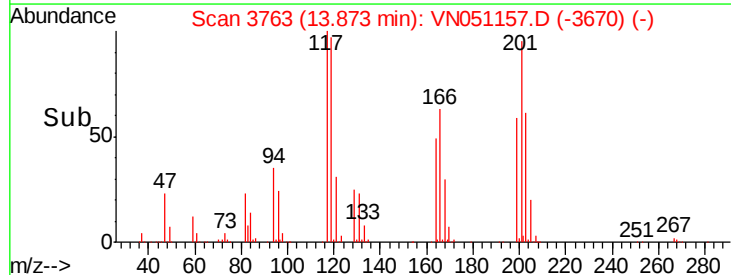
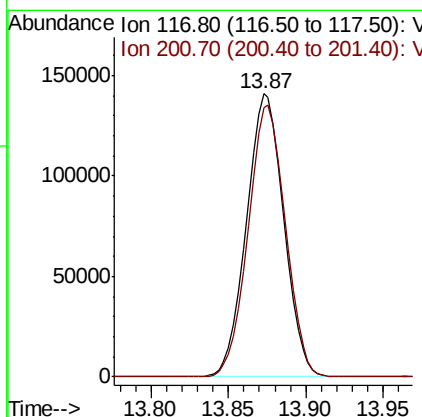
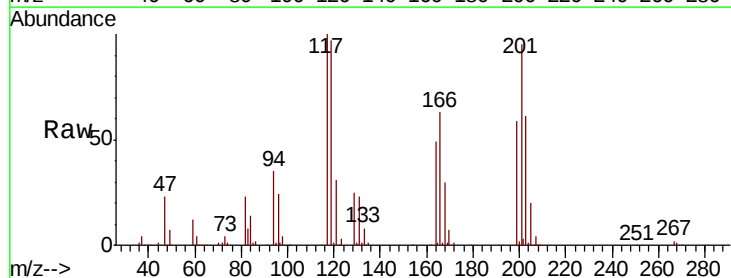
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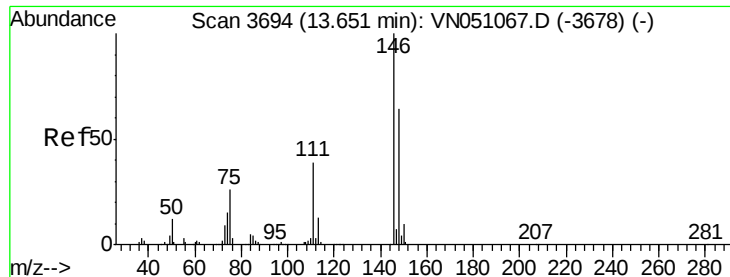
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#90
Hexachloroethane
Concen: 47.27 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion: 117 Resp: 236935
Ion Ratio Lower Upper
117 100
201 95.9 47.3 142.0





#91

1,2-Dichlorobenzene

Concen: 46.13 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Instrument :

MSVOA_N

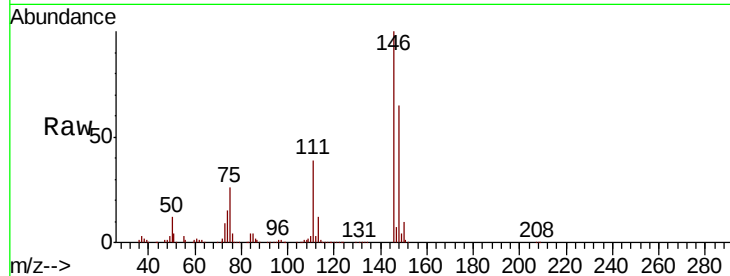
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	726026
Ion Ratio		Lower	Upper
146	100		
111	39.5	19.7	59.0
148	64.7	32.1	96.3

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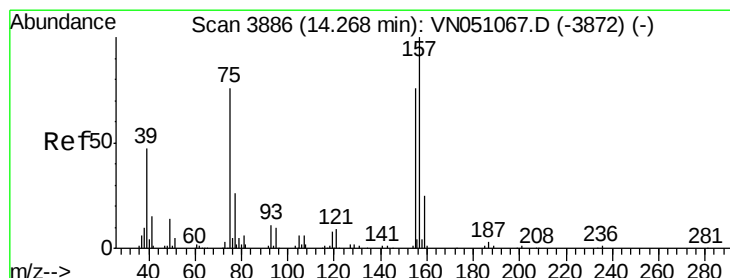
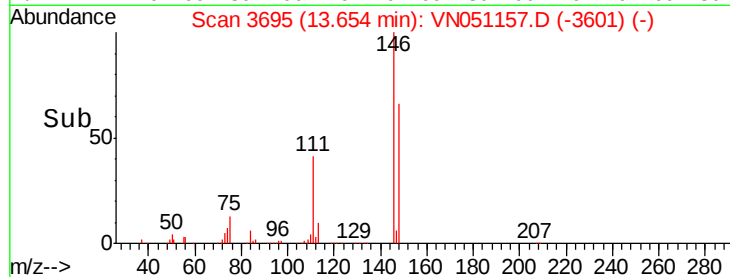
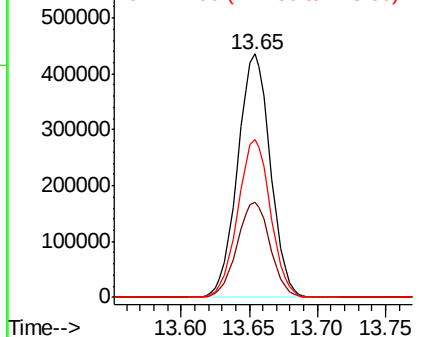


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 53.31 ug/l

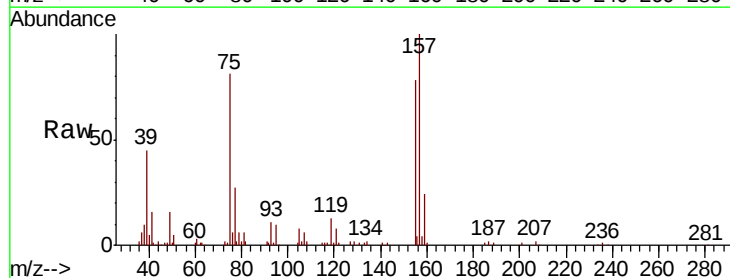
RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN051157.D

Acq: 13 Sep 2018 8:27

Tgt Ion:	75	Resp:	64593
Ion Ratio		Lower	Upper
75	100		
155	97.4	48.7	146.1
157	127.4	63.6	190.9

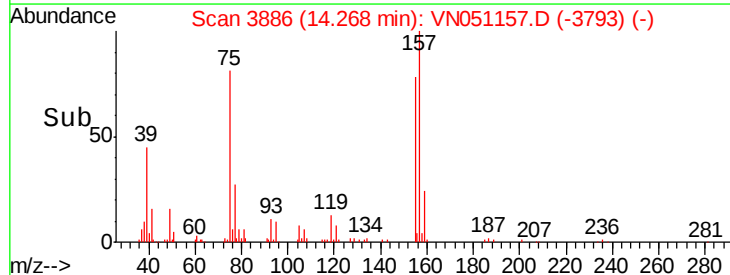
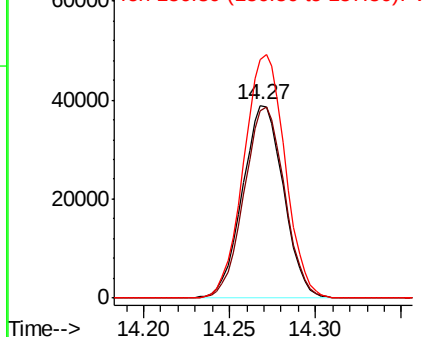


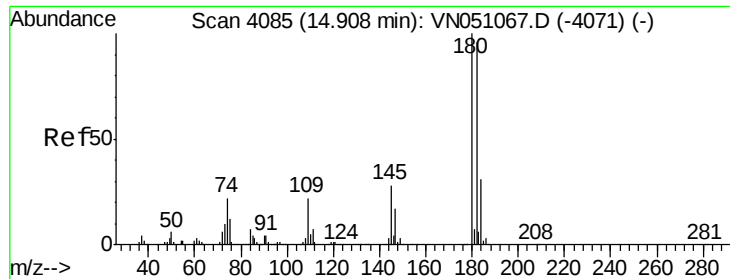
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





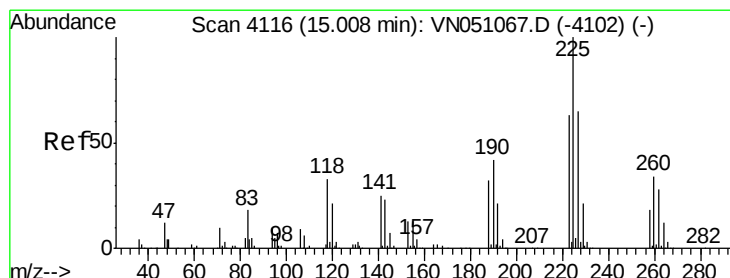
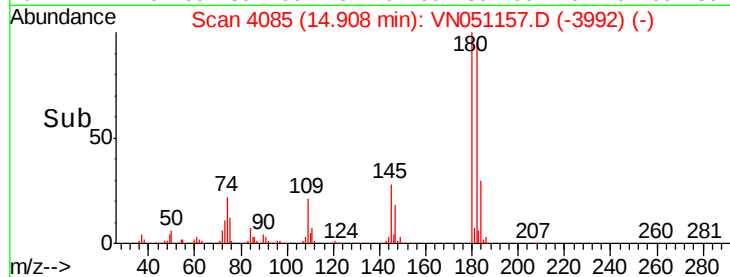
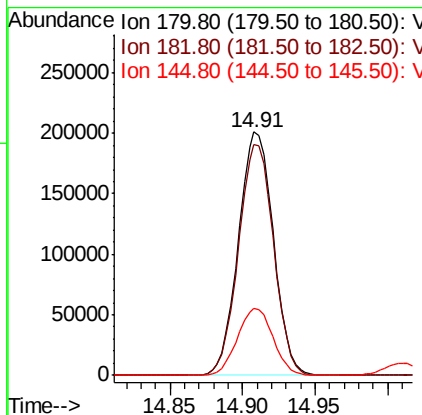
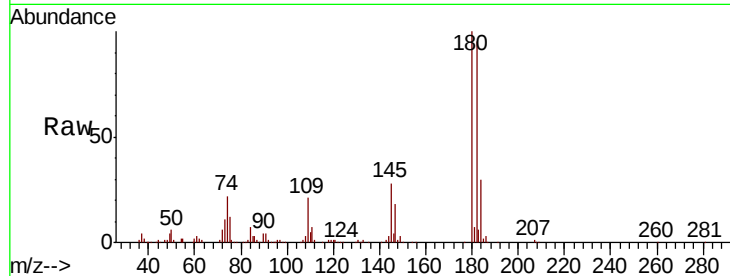
#93
 1,2,4-Trichlorobenzene
 Concen: 44.80 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.1	47.3	141.8	
145	28.0	14.2	42.6	

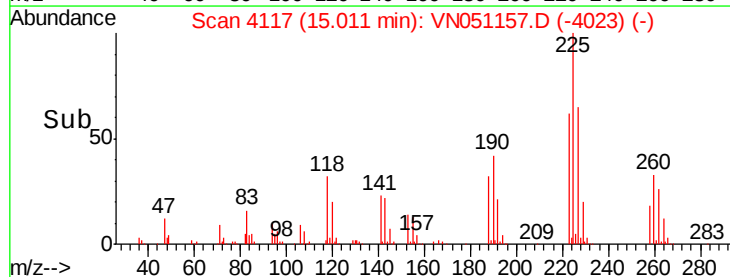
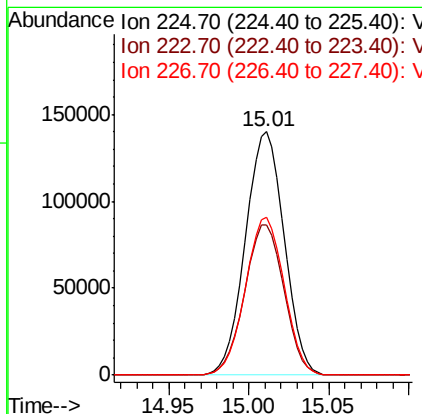
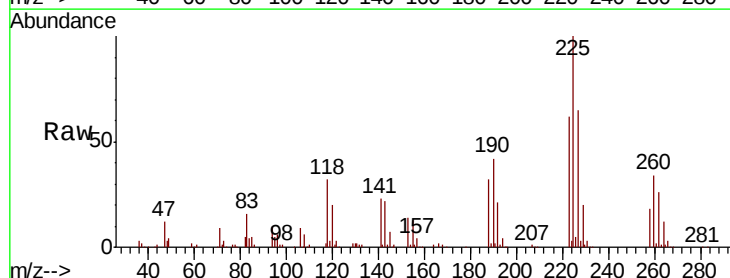
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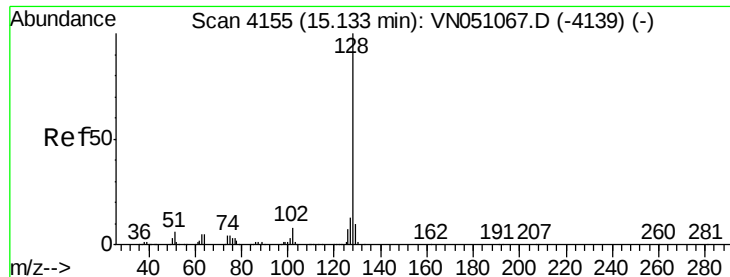
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#94
 Hexachlorobutadiene
 Concen: 50.66 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051157.D
 Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.3	31.4	94.0	
227	64.7	32.1	96.3	





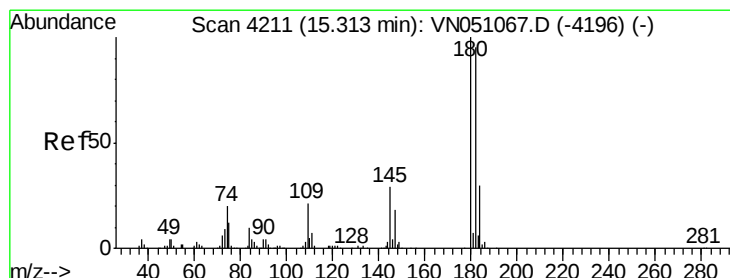
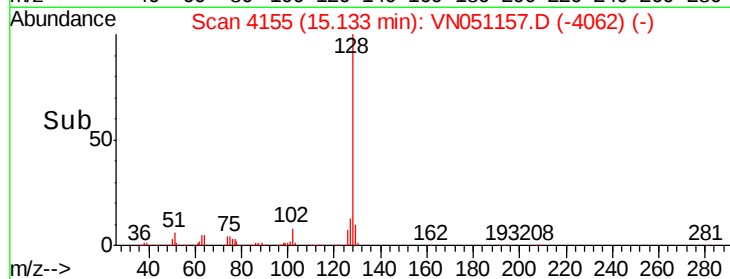
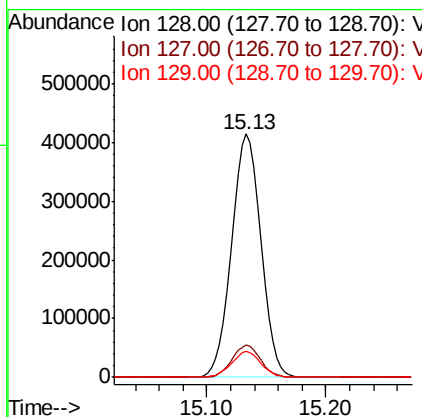
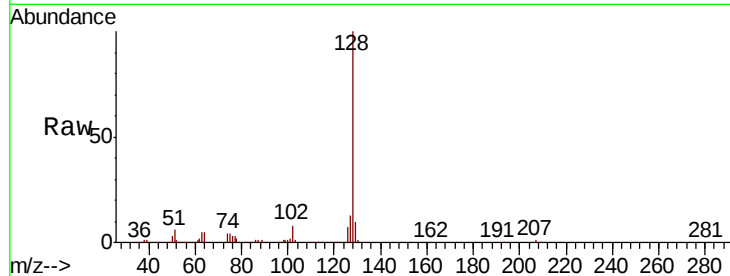
#95
Naphthalene
Concen: 45.20 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	709300		
127	12.9	10.6	15.8	
129	10.6	8.6	12.8	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 46.62 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN051157.D
Acq: 13 Sep 2018 8:27

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	337208		
182	94.6	47.8	143.3	
145	29.9	14.6	43.8	

