

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052619.D
 Acq On : 3 Dec 2018 9:20
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/4/2018 2:56:38 PM

Quant Time: Dec 04 00:54:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1057545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1591618	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1432745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	680579	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	540969	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	
35) Dibromofluoromethane	7.59	113	491992	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.09	98	1920048	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.40	95	674370	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	443896	44.828	ug/l	98
3) Chloromethane	2.06	50	570281	43.630	ug/l	99
4) Vinyl Chloride	2.19	62	595615	44.359	ug/l	100
5) Bromomethane	2.57	94	362127	43.225	ug/l	100
6) Chloroethane	2.71	64	357707	43.981	ug/l	99
7) Trichlorofluoromethane	3.02	101	770523	46.718	ug/l	99
8) Diethyl Ether	3.41	74	281007	46.137	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	502405	48.817	ug/l	99
10) Methyl Iodide	3.96	142	700034	51.071	ug/l	99
11) Tert butyl alcohol	4.78	59	141028	244.645	ug/l	100
12) 1,1-Dichloroethene	3.74	96	458034	46.236	ug/l	99
13) Acrolein	3.61	56	201715	201.334	ug/l	99
14) Allyl chloride	4.33	41	802615	47.009	ug/l	98
15) Acrylonitrile	4.99	53	855125	234.341	ug/l	99
16) Acetone	3.81	43	788896	259.751	ug/l	99
17) Carbon Disulfide	4.06	76	1360067	43.627	ug/l	100
18) Methyl Acetate	4.33	43	412203	47.315	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1253296	47.550	ug/l	99
20) Methylene Chloride	4.55	84	528909	44.502	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	499140	47.177	ug/l	95
22) Diisopropyl ether	5.95	45	1686899	47.036	ug/l	98
23) Vinyl Acetate	5.90	43	5207433	233.120	ug/l	99
24) 1,1-Dichloroethane	5.85	63	954485	46.612	ug/l	99
25) 2-Butanone	6.83	43	1041835	242.016	ug/l	97
26) 2,2-Dichloropropane	6.83	77	709430	50.053	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	577829	46.884	ug/l	100
28) Bromochloromethane	7.19	49	454556	48.601	ug/l	97
29) Tetrahydrofuran	7.21	42	632163	227.677	ug/l	99
30) Chloroform	7.37	83	939267	45.975	ug/l	98
31) Cyclohexane	7.65	56	898641	45.307	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	777322	48.022	ug/l	99
36) 1,1-Dichloropropene	7.79	75	739282	49.187	ug/l	99
37) Ethyl Acetate	6.93	43	423992	46.223	ug/l	100
38) Carbon Tetrachloride	7.77	117	677423	49.788	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	913630	50.011	ug/l	99
40) Benzene	8.04	78	2185106	48.783	ug/l	100
41) Methacrylonitrile	7.17	41	272504	54.340	ug/l	90
42) 1,2-Dichloroethane	8.12	62	660820	48.724	ug/l	100
43) Isopropyl Acetate	8.16	43	755959	48.699	ug/l	100
44) Trichloroethene	8.83	130	574983	50.114	ug/l	100
45) 1,2-Dichloropropane	9.12	63	580281	48.728	ug/l	99
46) Dibromomethane	9.21	93	329506	49.982	ug/l	99
47) Bromodichloromethane	9.40	83	722846	50.432	ug/l	100
48) Methyl methacrylate	9.20	41	382175	47.216	ug/l	97
49) 1,4-Dioxane	9.20	88	91826	1093.119	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	2147092	246.522	ug/l	99
52) Toluene	10.16	92	1348490	50.670	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	723599	52.477	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	860901	52.100	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	473840	50.617	ug/l	99
56) Ethyl methacrylate	10.43	69	597004	46.146	ug/l	99
57) 1,3-Dichloropropane	10.71	76	815165	49.316	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1745766	257.003	ug/l	99
59) 2-Hexanone	10.75	43	1532900	262.239	ug/l	99
60) Dibromochloromethane	10.90	129	538116	52.926	ug/l	99
61) 1,2-Dibromoethane	11.01	107	466048	50.125	ug/l	100
64) Tetrachloroethene	10.63	164	557833	50.217	ug/l	99
65) Chlorobenzene	11.44	112	1493487	50.553	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	519572	50.580	ug/l	99
67) Ethyl Benzene	11.51	91	2631413	50.863	ug/l	100
68) m/p-Xylenes	11.62	106	1987569	103.198	ug/l	99
69) o-Xylene	11.95	106	962392	51.457	ug/l	100
70) Styrene	11.96	104	1588304	53.318	ug/l	99
71) Bromoform	12.13	173	365849	53.789	ug/l #	100
73) Isopropylbenzene	12.25	105	2606524	48.815	ug/l	99
74) N-amyl acetate	12.07	43	652022	48.334	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	561969	46.266	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	472833m	45.054	ug/l	
77) Bromobenzene	12.53	156	640607	48.538	ug/l	97
78) n-propylbenzene	12.59	91	3037922	50.081	ug/l	99
79) 2-Chlorotoluene	12.68	91	1749737	48.438	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2120345	49.791	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	163879	52.147	ug/l	97
82) 4-Chlorotoluene	12.77	91	1791153	49.199	ug/l	99
83) tert-Butylbenzene	12.99	119	1868505	49.217	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2139280	50.127	ug/l	99
85) sec-Butylbenzene	13.17	105	2588442	50.058	ug/l	100
86) p-Isopropyltoluene	13.29	119	2250407	51.096	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1164279	50.432	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1142716	50.252	ug/l	100
89) n-Butylbenzene	13.62	91	1949556	53.226	ug/l	100
90) Hexachloroethane	13.88	117	379030	50.826	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1099777	49.862	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	85001	48.930	ug/l	97

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	598871	49.589	ug/l	100
94) Hexachlorobutadiene	15.01	225	353833	49.866	ug/l	100
95) Naphthalene	15.13	128	1200090	47.053	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	542469	48.894	ug/l	100

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

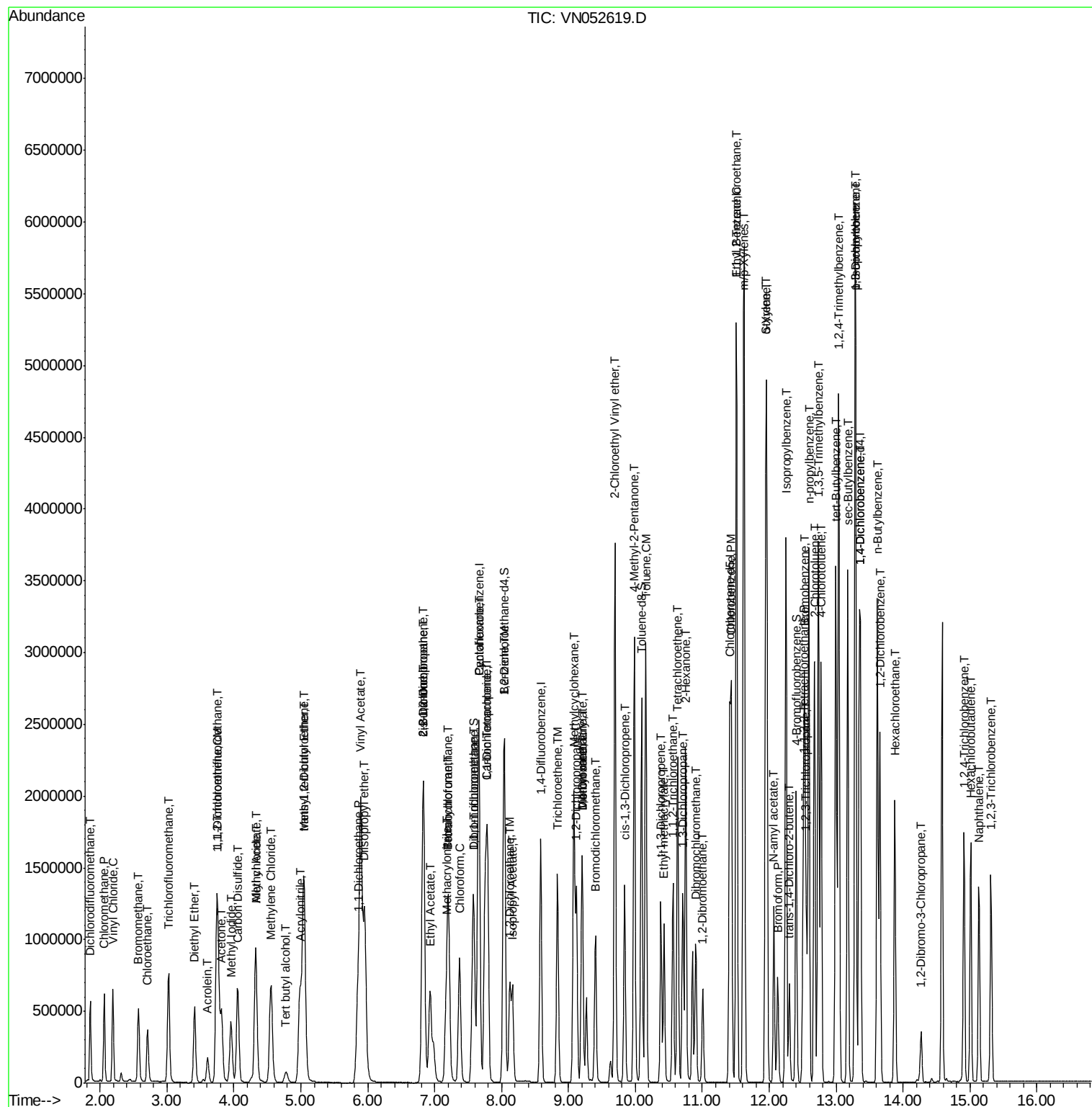
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Data File : VN052619.D
Acq On : 3 Dec 2018 9:20
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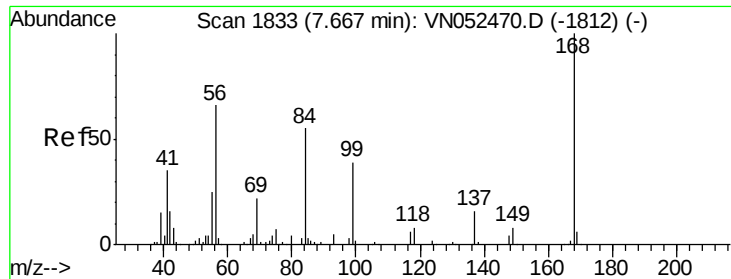
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Quant Time: Dec 04 00:54:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1057545

Ion Ratio Lower Upper

168 100

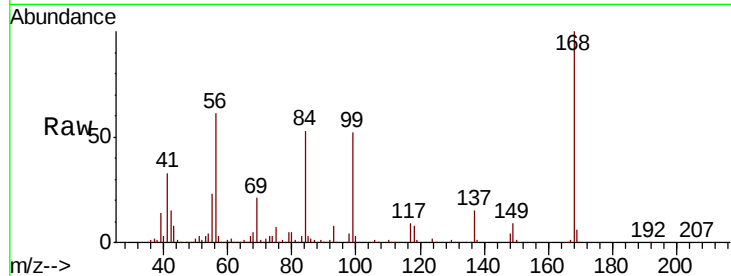
99 51.5 41.7 62.5

Manual Integrations

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12/4/2018 2:56:38 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

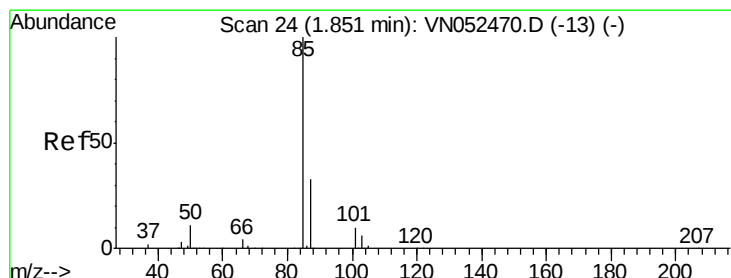
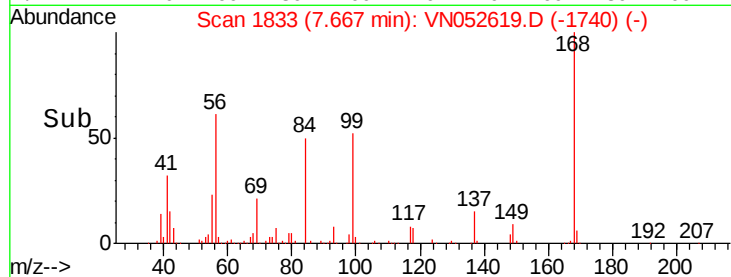
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 44.828 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052619.D

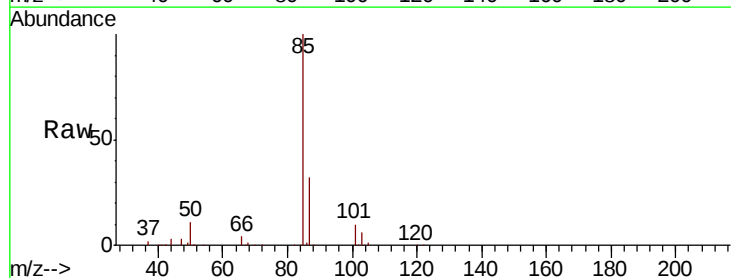
Acq: 3 Dec 2018 9:20

Tgt Ion: 85 Resp: 443896

Ion Ratio Lower Upper

85 100

87 32.2 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

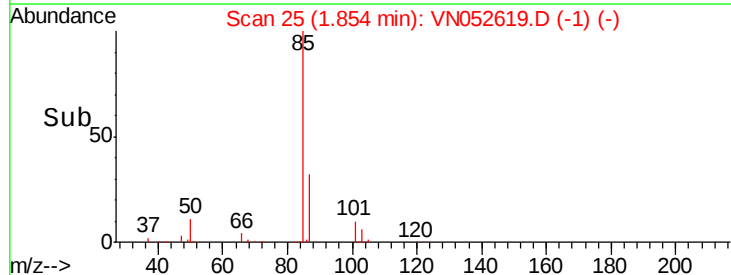
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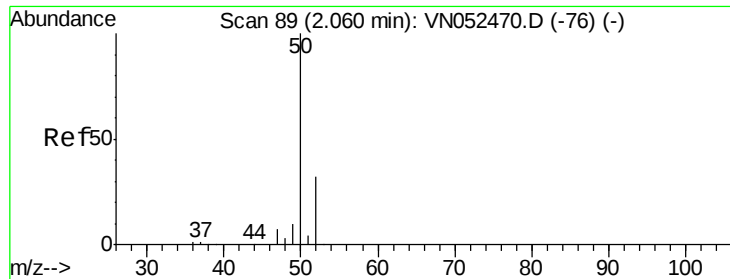
200000

100000

0

Time-->





#3

Chloromethane

Concen: 43.630 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 570281

Ion Ratio Lower Upper

50 100

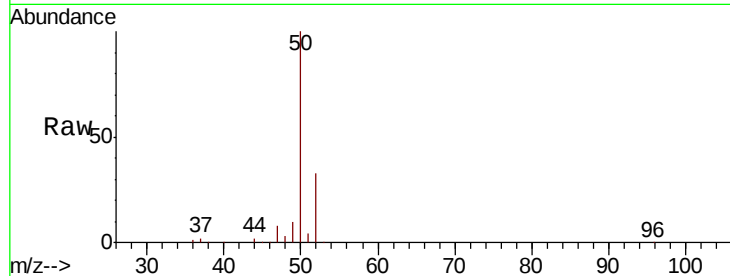
52 33.1 25.9 38.9

Manual Integrations

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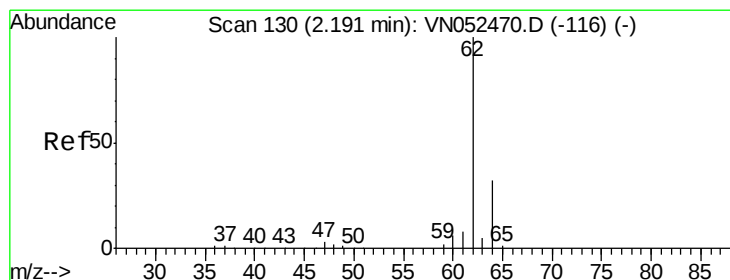
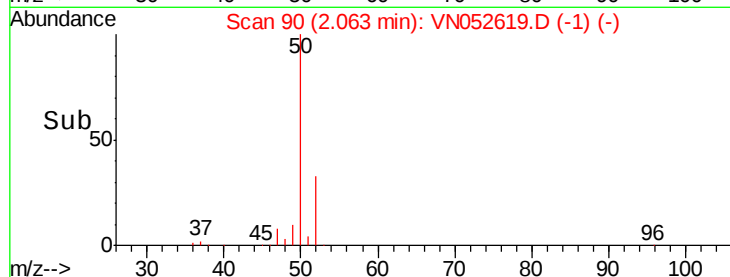
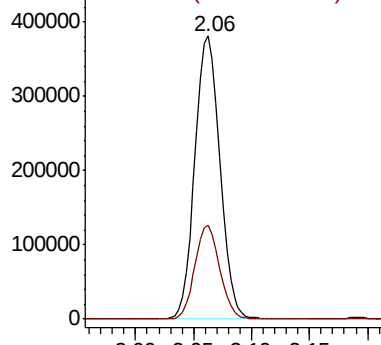
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 44.359 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052619.D

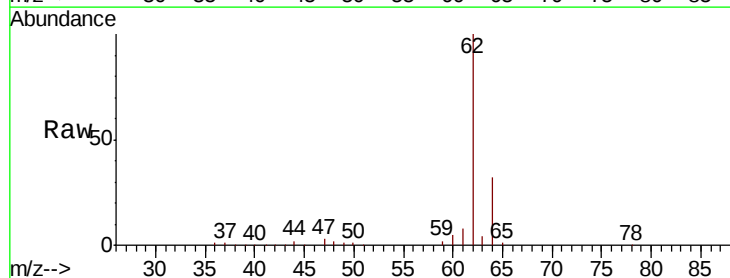
Acq: 3 Dec 2018 9:20

Tgt Ion: 62 Resp: 595615

Ion Ratio Lower Upper

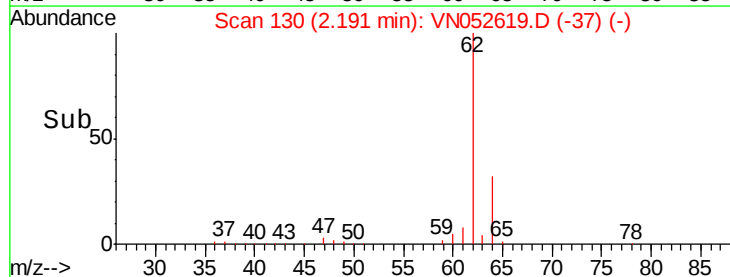
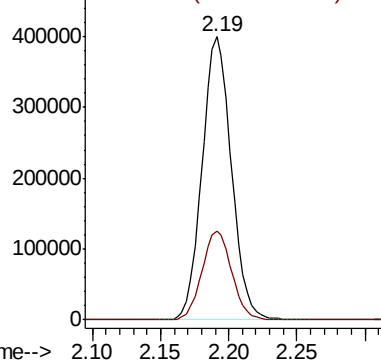
62 100

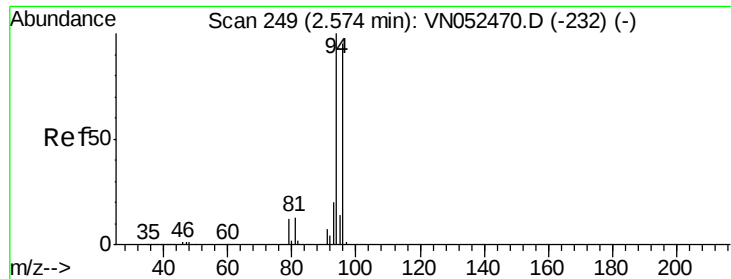
64 31.6 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 43.225 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 362127

Ion Ratio Lower Upper

94 100

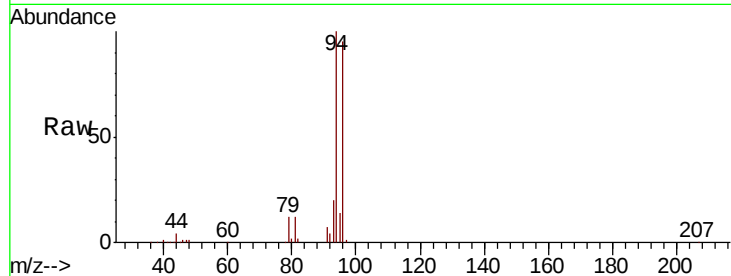
96 94.8 75.8 113.8

Manual Integrations

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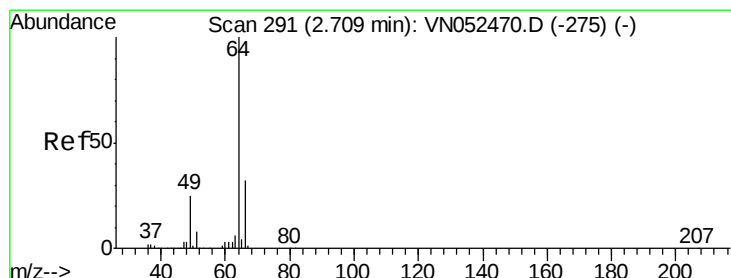
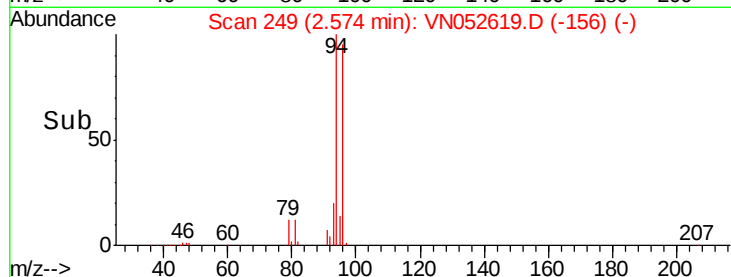
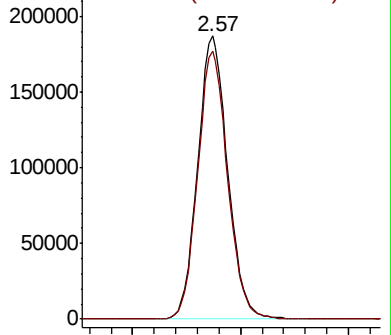
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 43.981 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052619.D

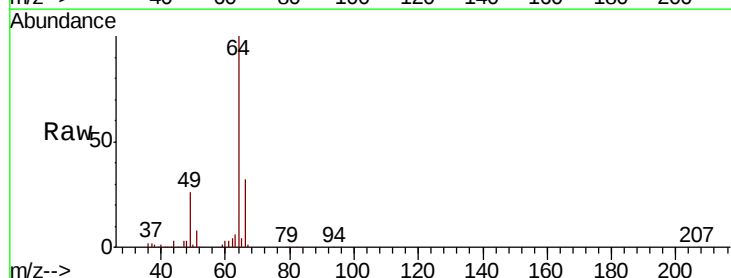
Acq: 3 Dec 2018 9:20

Tgt Ion: 64 Resp: 357707

Ion Ratio Lower Upper

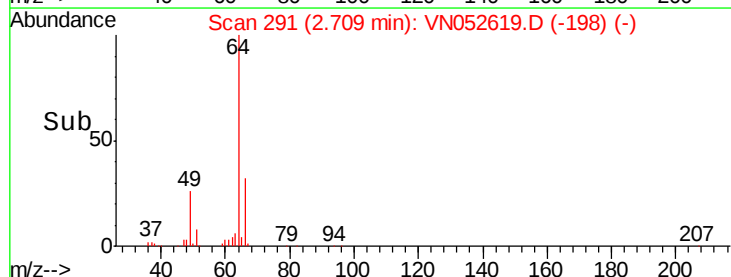
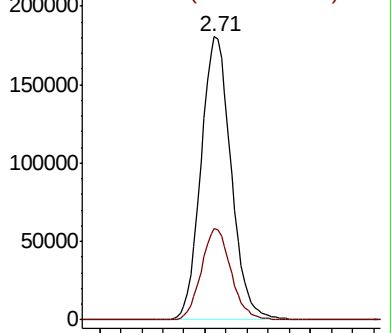
64 100

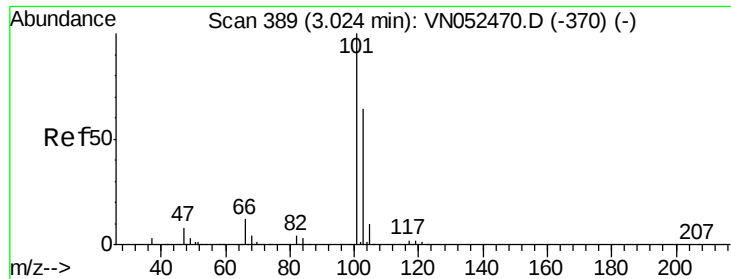
66 32.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

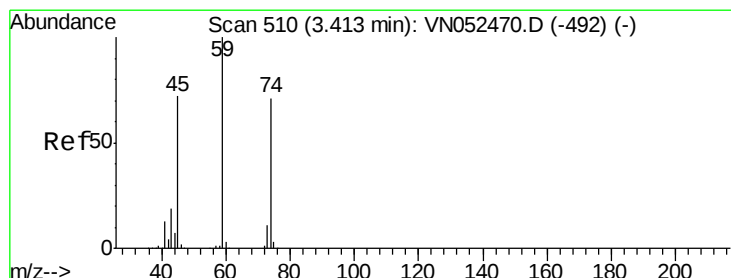
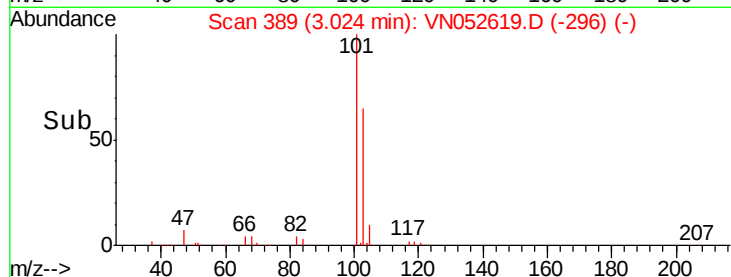
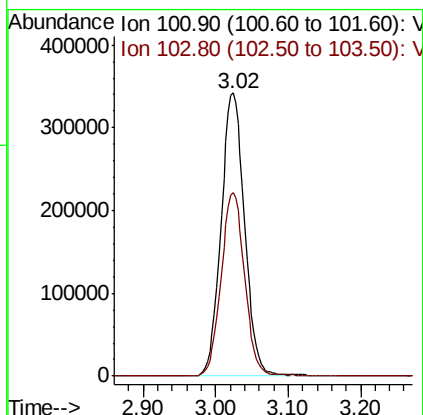
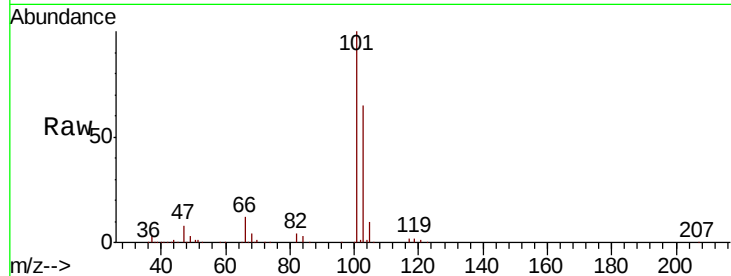
Trichlorofluoromethane
 Concen: 46.718 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	770523		
103	65.1	51.4	77.2	

Manual Integrations
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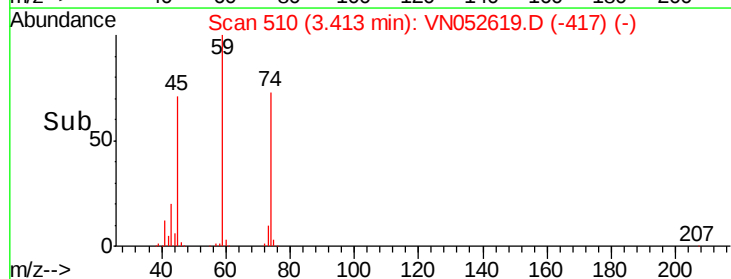
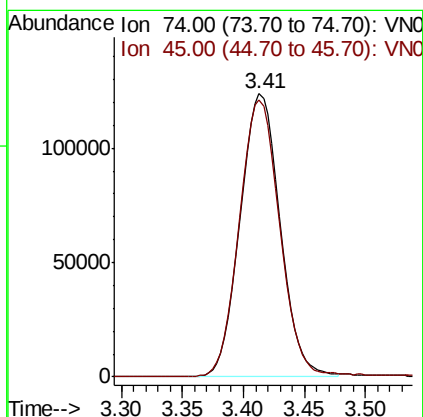
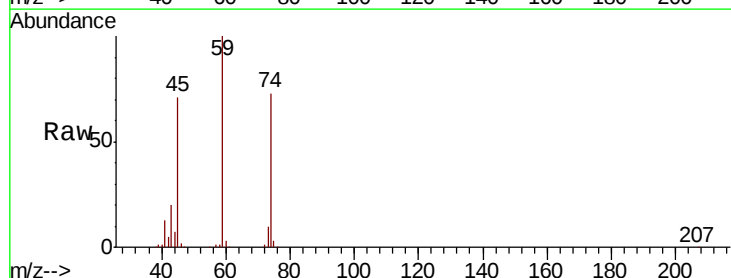
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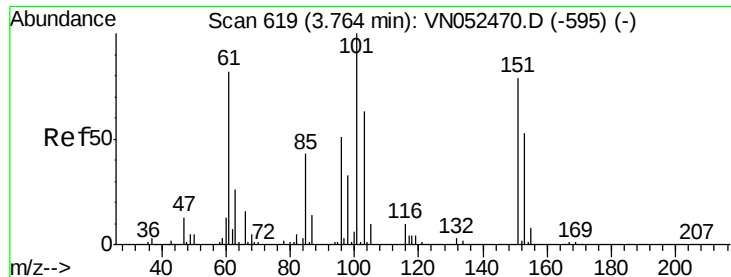


#8

Diethyl Ether
 Concen: 46.137 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	281007		
45	98.9	50.4	151.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.817 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

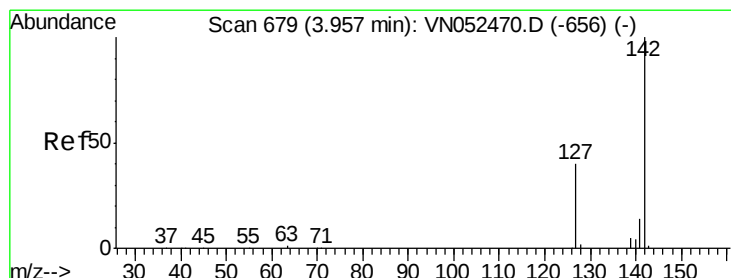
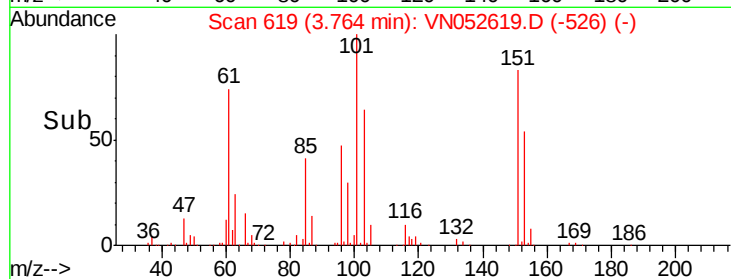
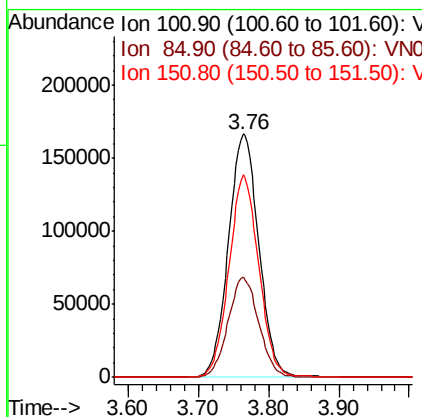
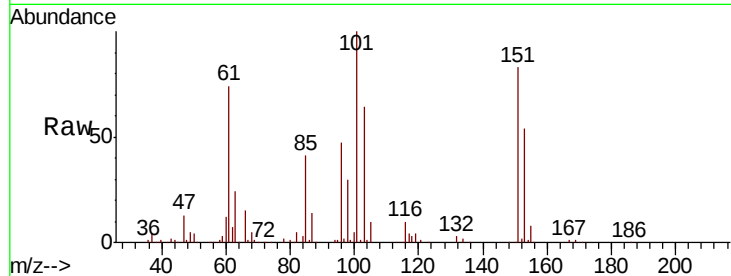
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	502405
Ion Ratio	Lower	Upper	
101	100		
85	41.3	34.2	51.4
151	81.4	64.6	96.8

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#10

Methyl Iodide

Concen: 51.071 ug/l

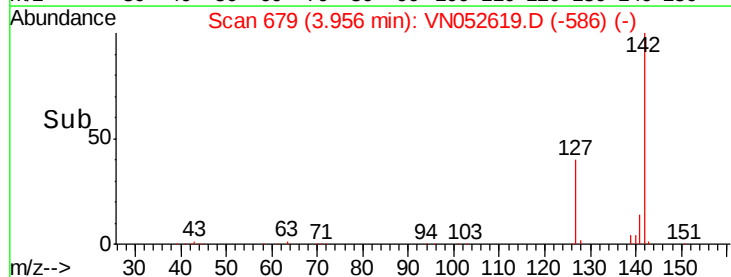
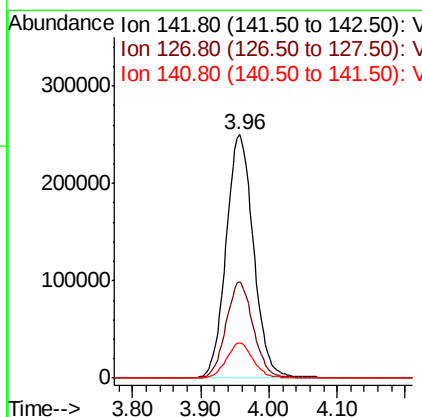
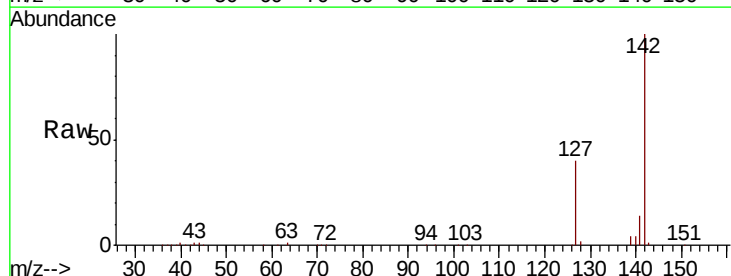
RT: 3.96 min Scan# 679

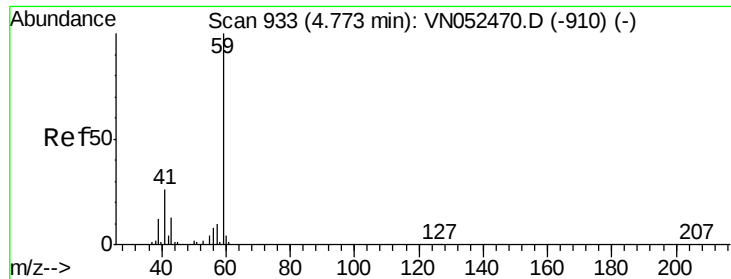
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	142	Resp:	700034
Ion Ratio	Lower	Upper	
142	100		
127	39.3	31.8	47.6
141	14.0	11.4	17.0





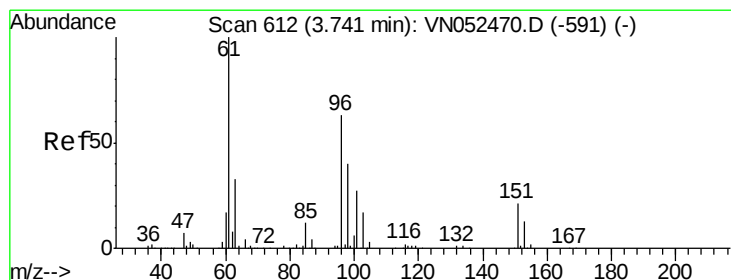
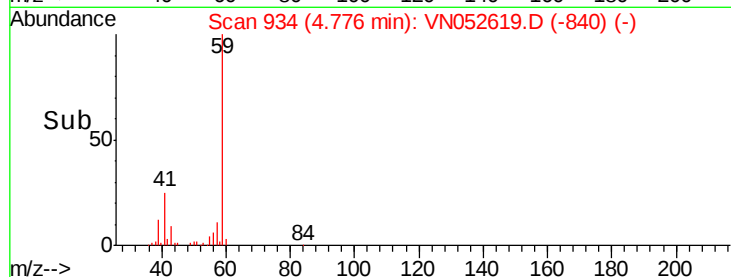
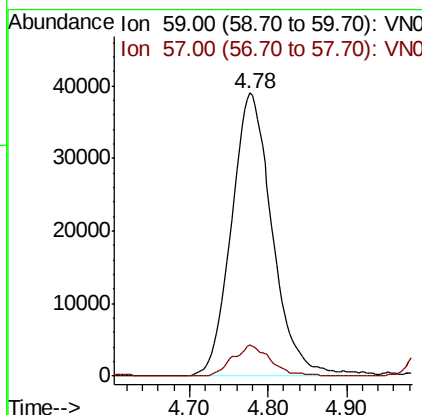
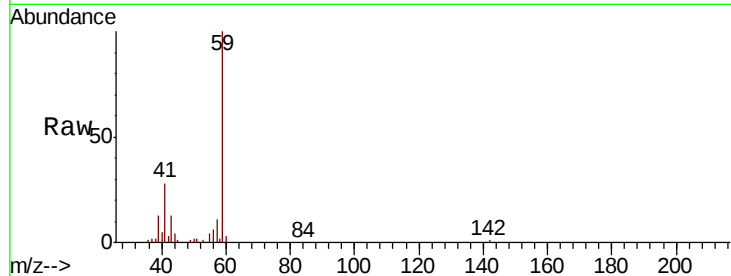
#11
Tert butyl alcohol
Concen: 244.645 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.9	11.9

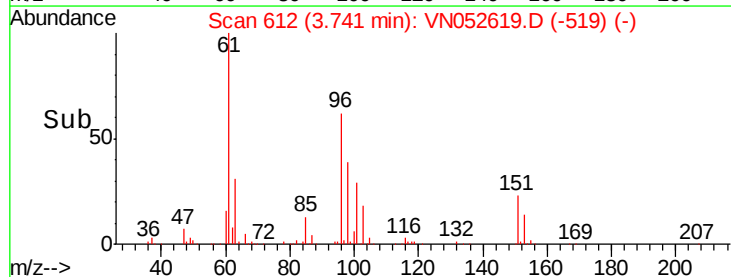
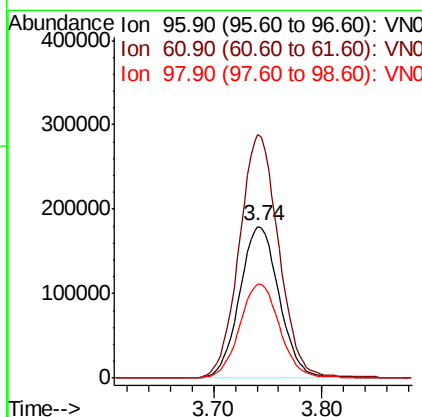
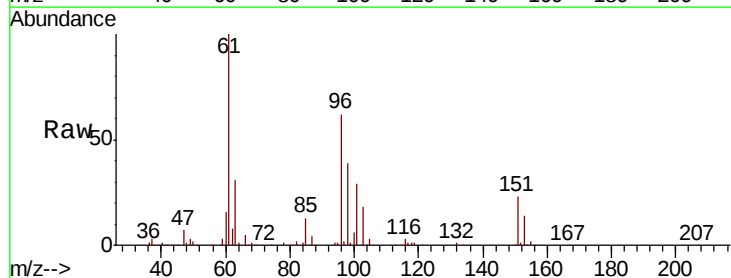
Manual Integrations
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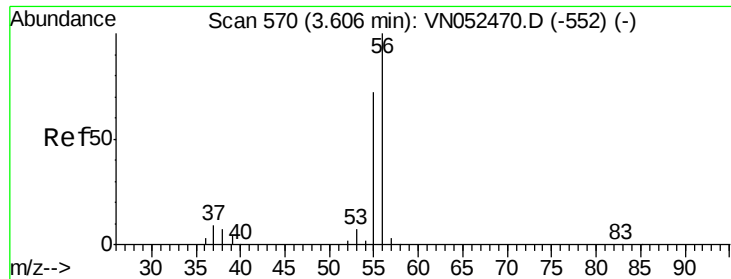
MMDadoda
12/4/2018 2:56:38 PM



#12
1,1-Dichloroethene
Concen: 46.236 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.1	127.0	190.6
98	62.0	50.3	75.5





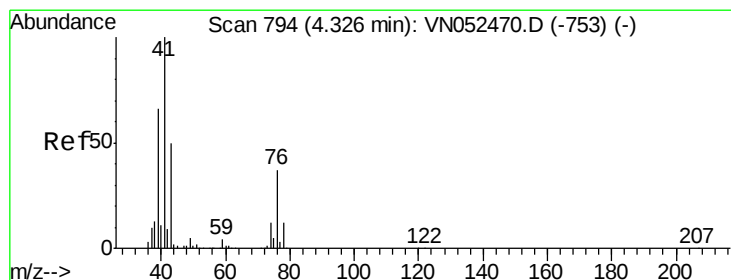
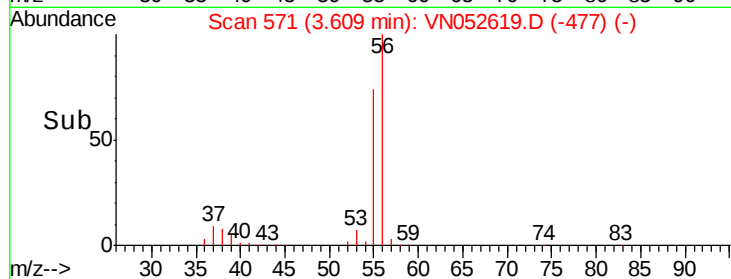
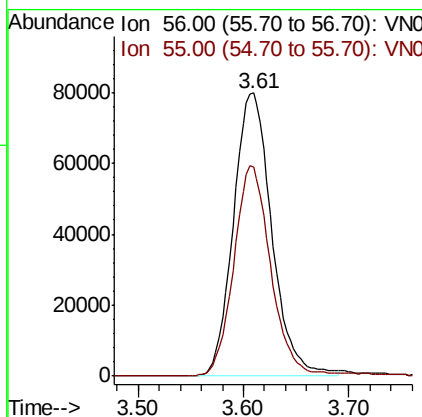
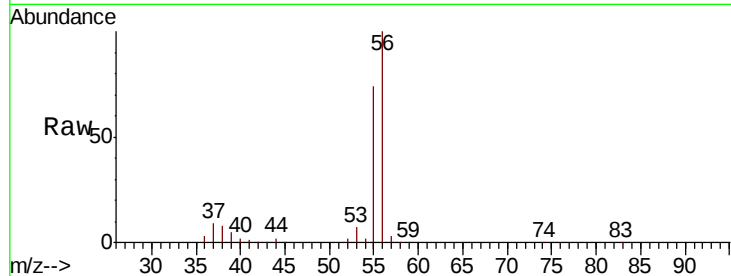
#13
Acrolein
Concen: 201.334 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.8	85.2

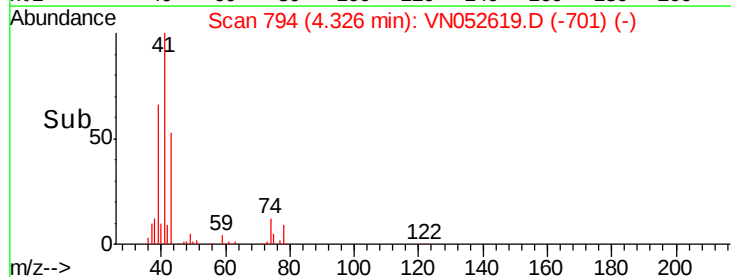
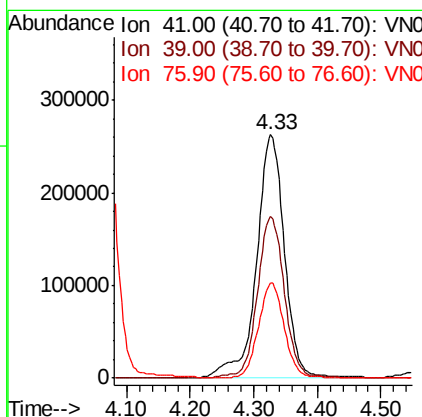
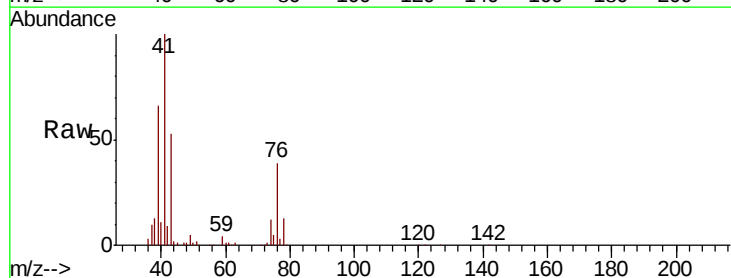
Manual Integrations
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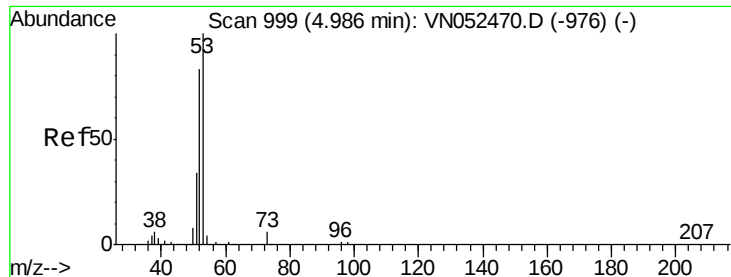
MMDadoda
12/4/2018 2:56:38 PM



#14
Allyl chloride
Concen: 47.009 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
41	100		
39	64.5	50.6	76.0
76	35.5	27.4	41.2





#15

Acrylonitrile

Concen: 234.341 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

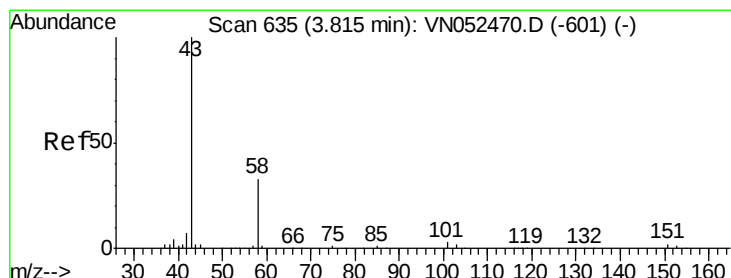
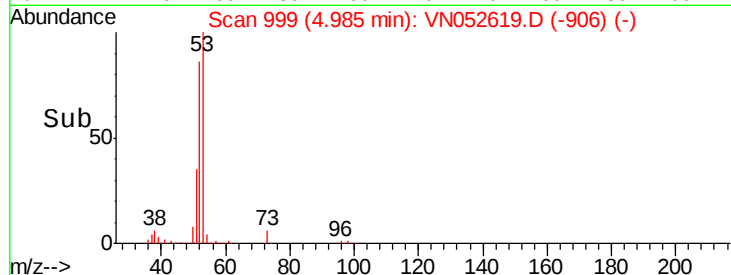
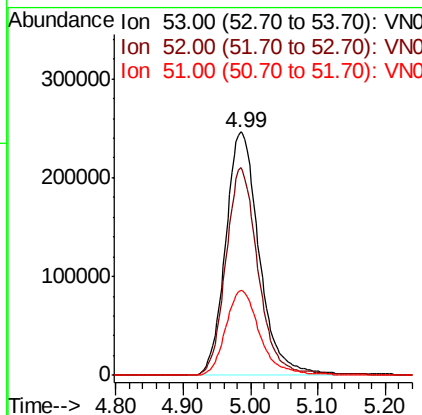
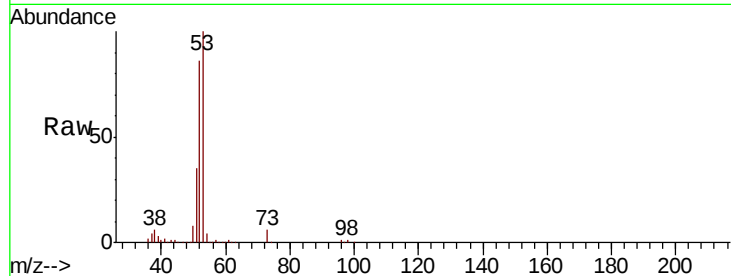
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	855125
Ion Ratio		Lower	Upper
53	100		
52	82.3	66.2	99.2
51	35.8	28.1	42.1

Manual Integrations
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12/4/2018 2:56:38 PM



#16

Acetone

Concen: 259.751 ug/l

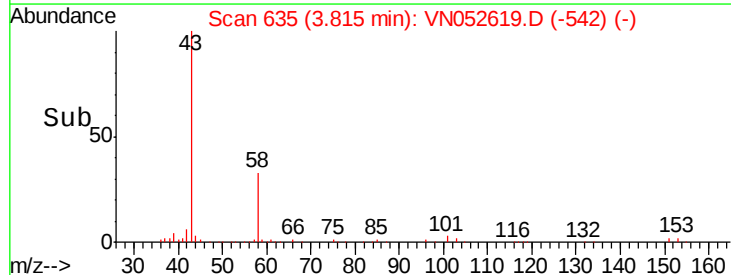
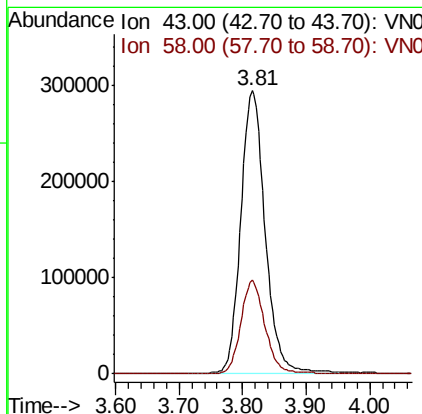
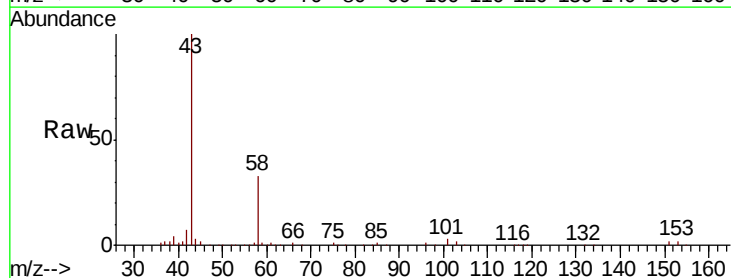
RT: 3.81 min Scan# 635

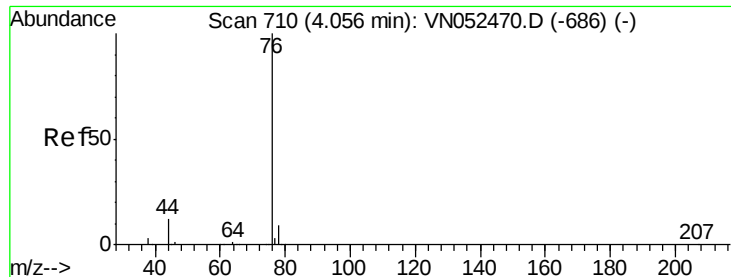
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	43	Resp:	788896
Ion Ratio		Lower	Upper
43	100		
58	33.1	26.0	39.0





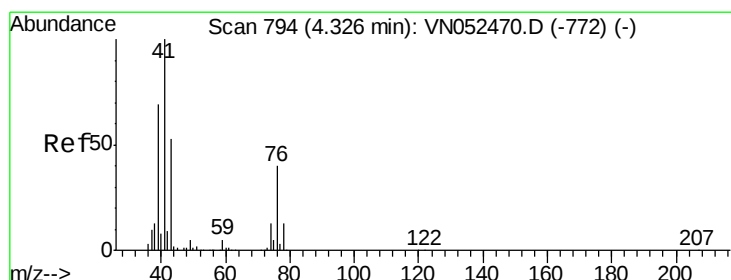
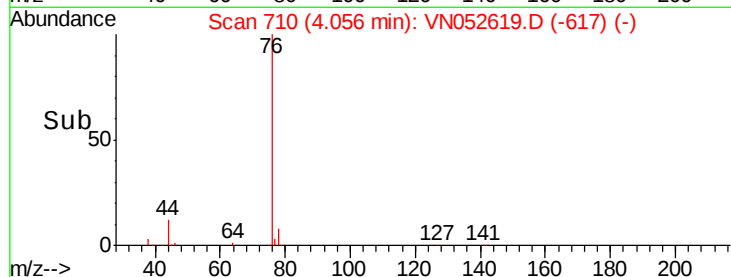
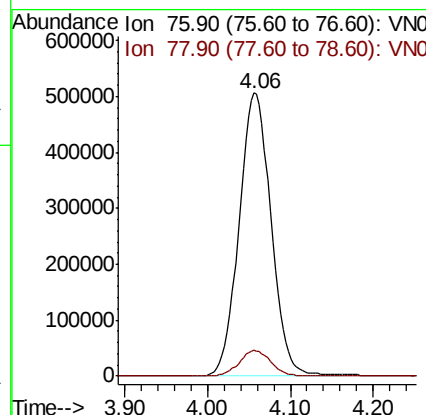
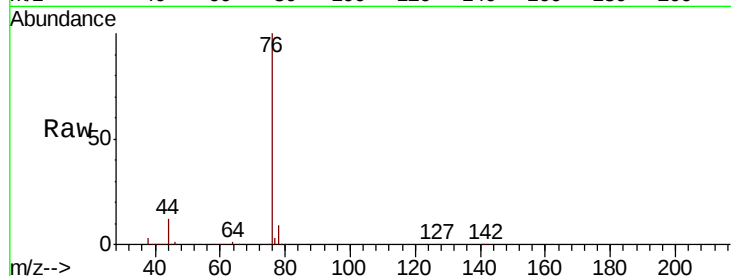
#17
Carbon Disulfide
Concen: 43.627 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1360067
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0

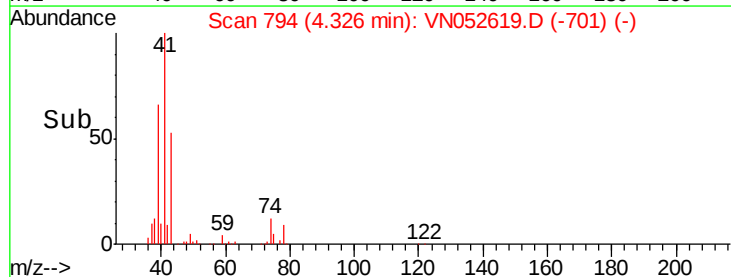
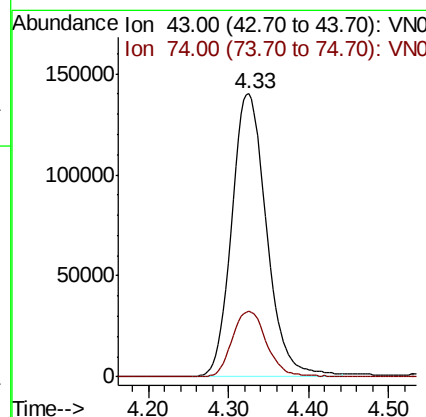
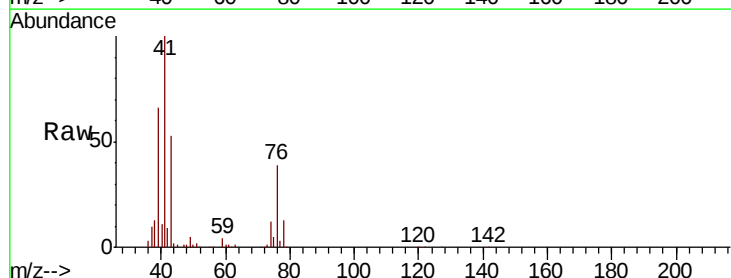
Manual Integrations
APPROVED

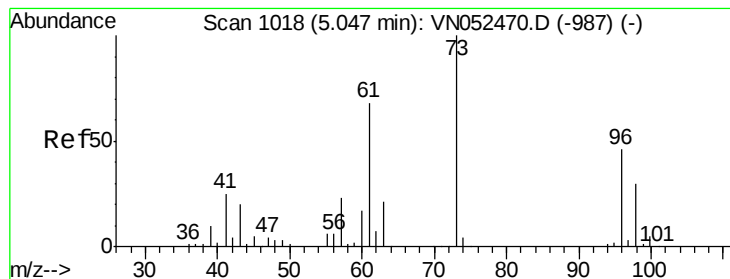
MMDadoda
12/4/2018 2:56:38 PM



#18
Methyl Acetate
Concen: 47.315 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion: 43 Resp: 412203
Ion Ratio Lower Upper
43 100
74 23.2 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 47.550 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tot Ion: 73 Resp: 1253296

Ion Ratio Lower Upper

73 100

57 23.1 18.2 27.2

Instrument :

MSVOA_N

ClientSampleId :

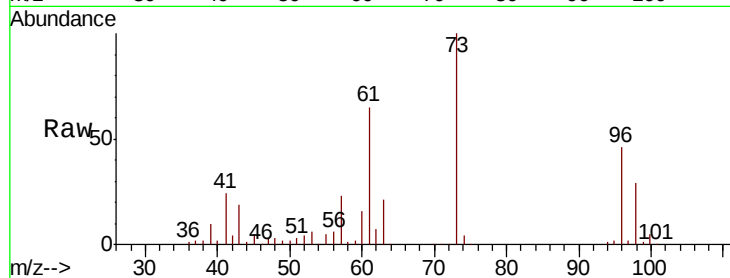
VSTDCCC050

Manual Integrations

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Abundance Ion 73.00 (72.70 to 73.70): VN052470.D (-987) (-)

Ion 57.00 (56.70 to 57.70): VN052470.D (-987) (-)

5.05

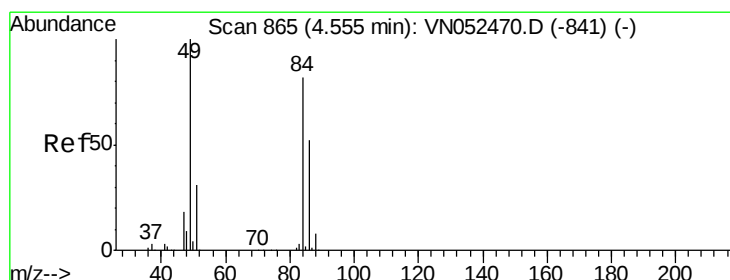
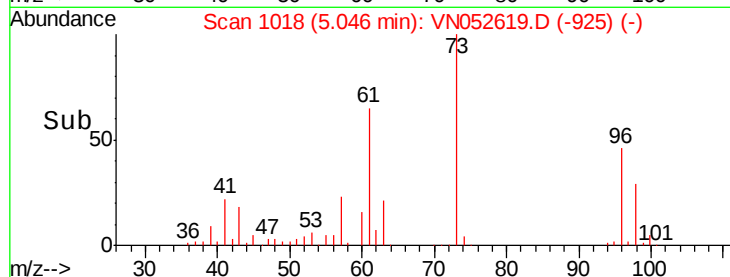
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 44.502 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion: 84 Resp: 528909

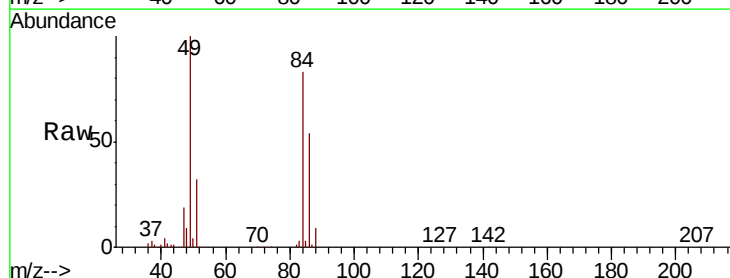
Ion Ratio Lower Upper

84 100

49 120.4 98.0 147.0

51 38.2 30.1 45.1

86 65.0 50.7 76.1



Abundance Ion 83.90 (83.60 to 84.60): VN052470.D (-841) (-)

Ion 48.90 (48.60 to 49.60): VN052470.D (-841) (-)

Ion 50.90 (50.60 to 51.60): VN052470.D (-841) (-)

Ion 85.90 (85.60 to 86.60): VN052470.D (-841) (-)

4.55

300000

250000

200000

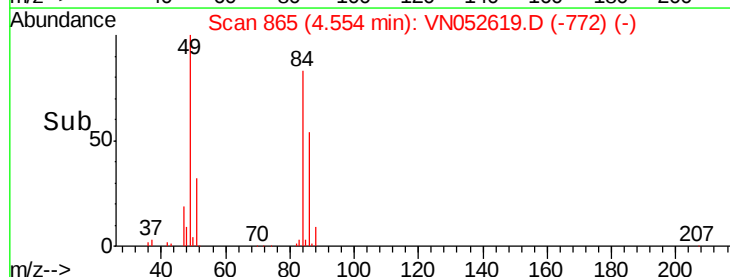
150000

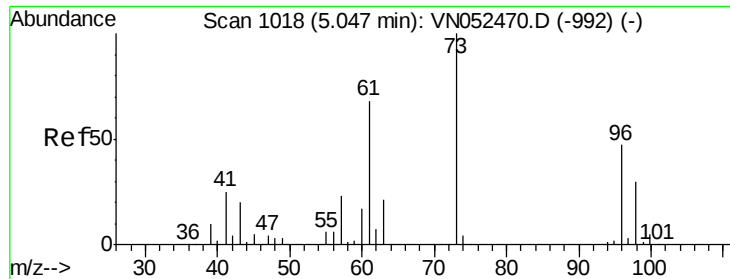
100000

50000

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 47.177 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 499140

Ion Ratio Lower Upper

96 100

61 139.2 117.0 175.4

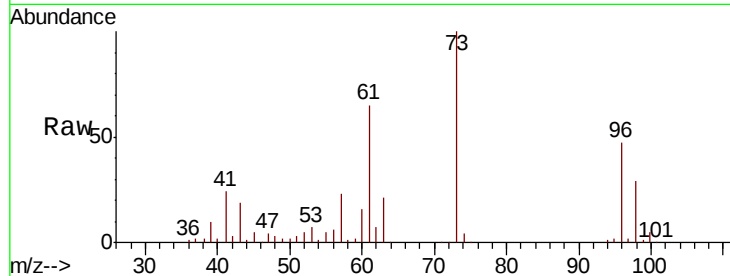
98 62.1 51.8 77.6

Manual Integrations

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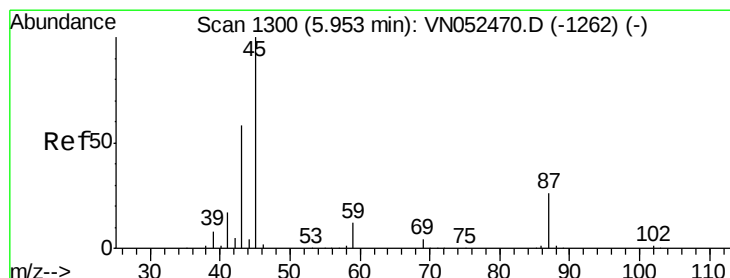
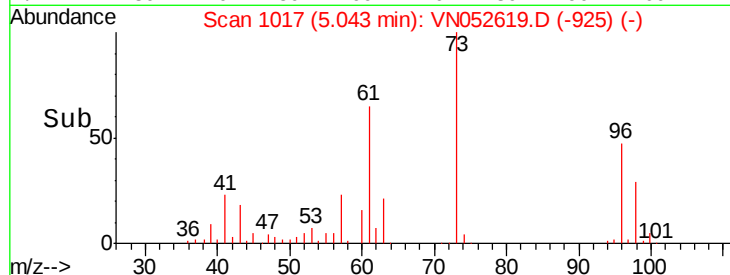
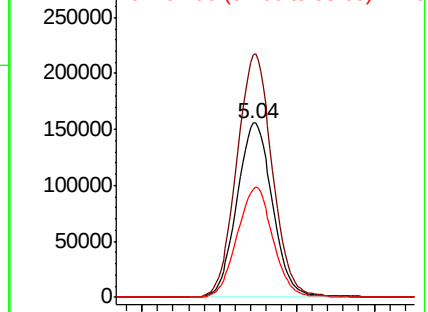


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 47.036 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion: 45 Resp: 1686899

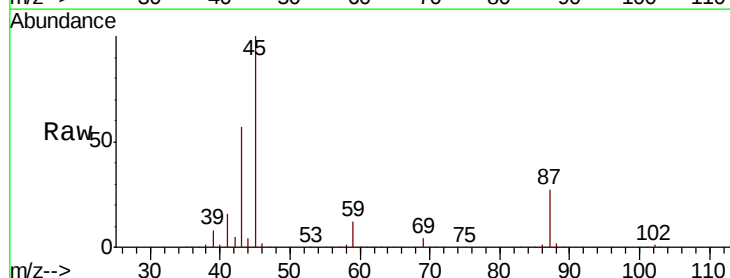
Ion Ratio Lower Upper

45 100

43 55.9 46.1 69.1

87 27.4 21.3 31.9

59 11.6 9.5 14.3



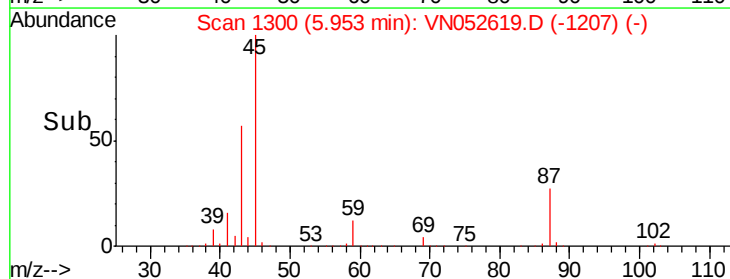
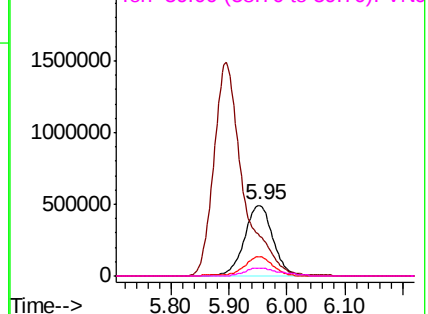
Abundance

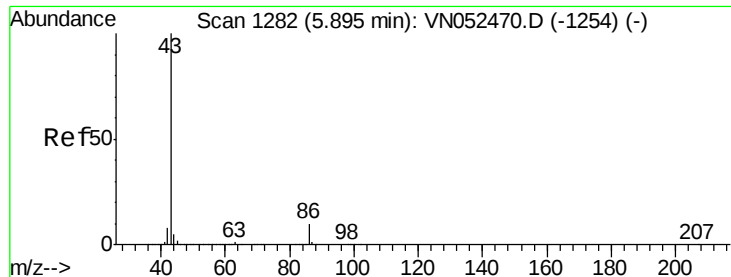
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 233.120 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 5207433

Ion Ratio Lower Upper

43 100

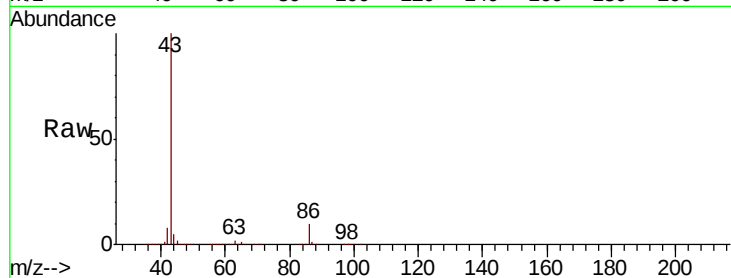
86 10.2 7.8 11.8

Manual Integrations

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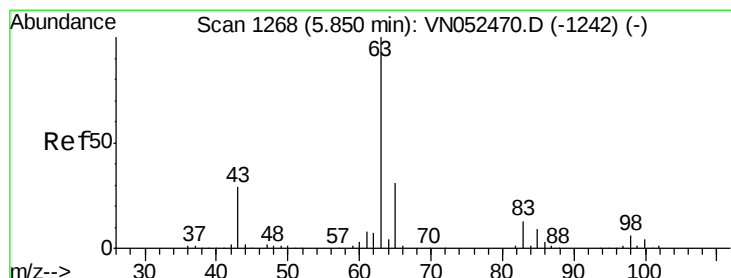
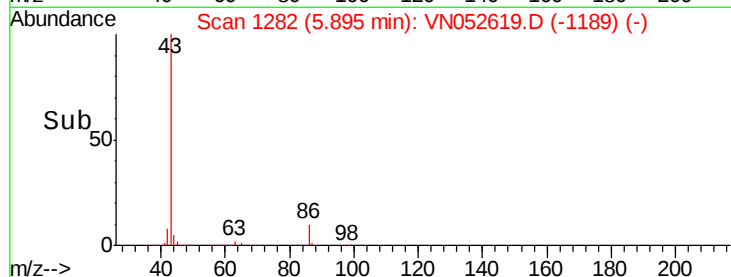
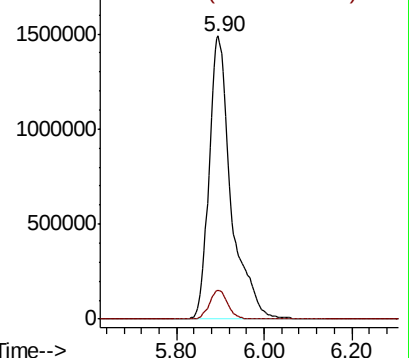
MMDadoda

12/4/2018 2:56:38 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 46.612 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

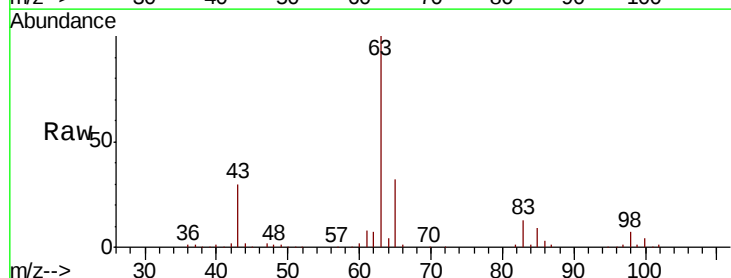
Tgt Ion: 63 Resp: 954485

Ion Ratio Lower Upper

63 100

98 6.7 3.0 9.2

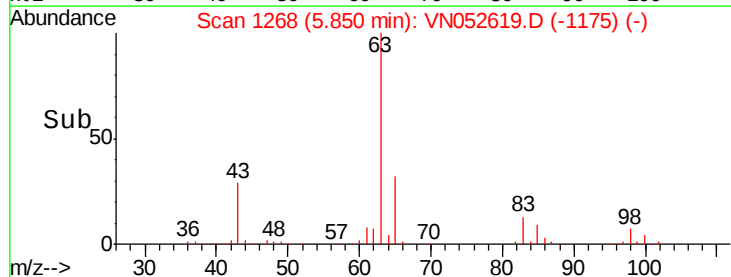
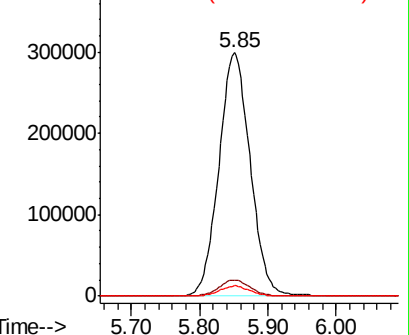
100 4.2 2.0 5.8

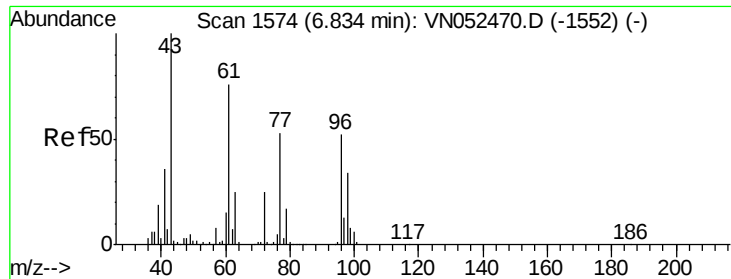


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





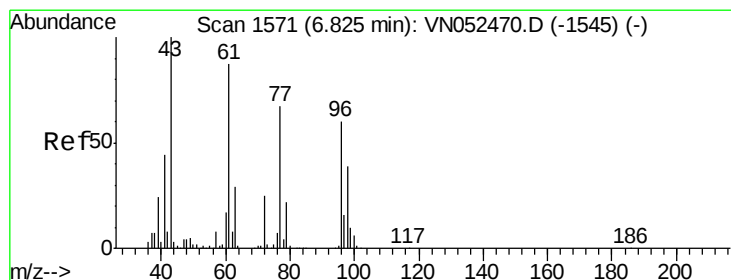
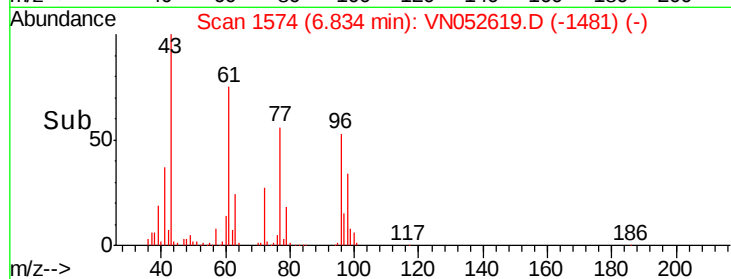
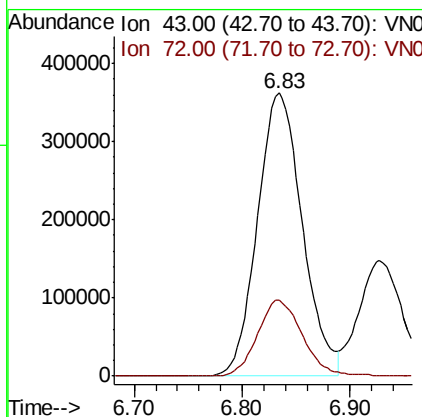
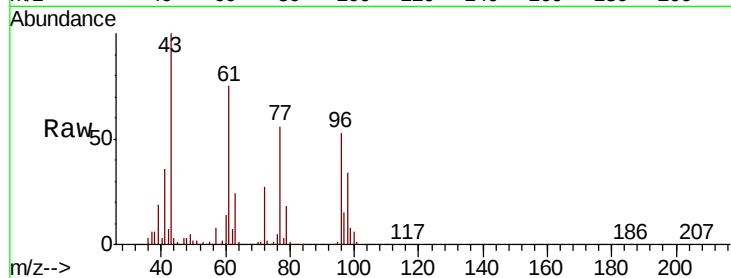
#25
2-Butanone
Concen: 242.016 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1041835
Ion Ratio Lower Upper
43 100
72 26.8 20.1 30.1

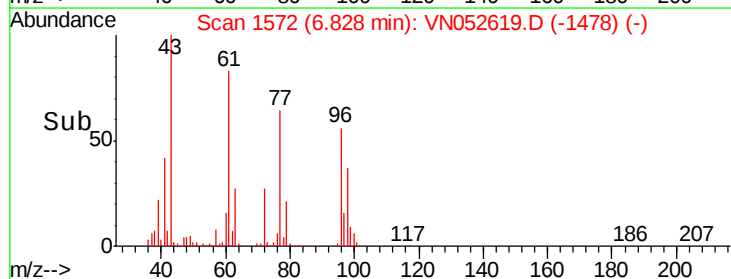
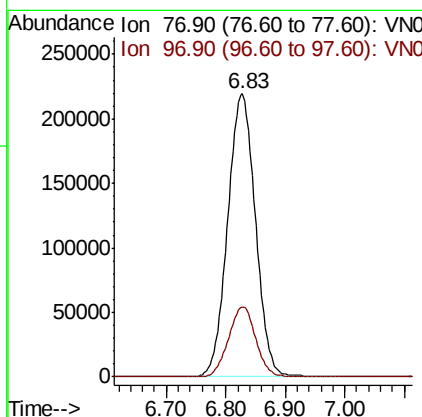
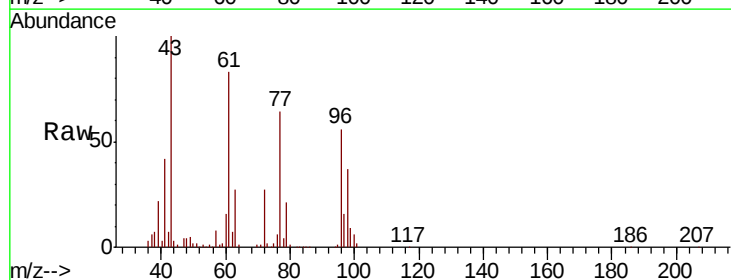
Manual Integrations
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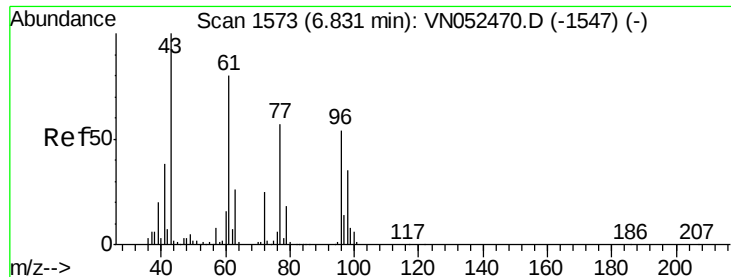
MMDadoda
12/4/2018 2:56:38 PM



#26
2,2-Dichloropropane
Concen: 50.053 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion: 77 Resp: 709430
Ion Ratio Lower Upper
77 100
97 24.3 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 46.884 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

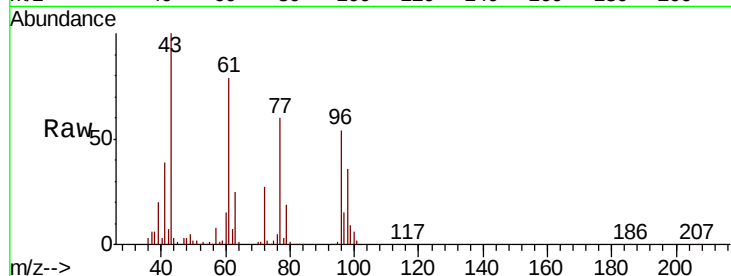
ClientSampleId :

VSTDCCC050

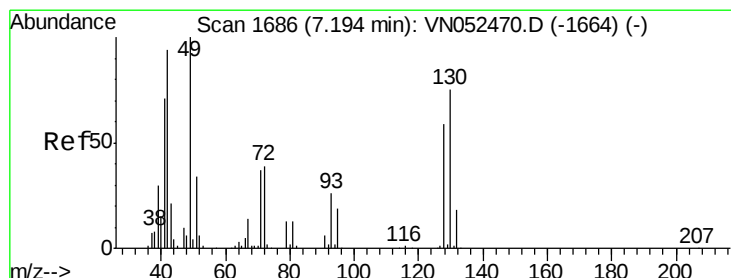
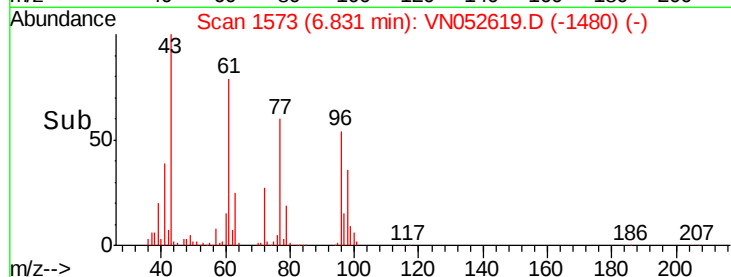
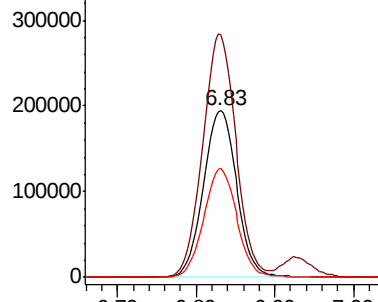
Tot Ion:	96	Resp:	577829
Ion	Ratio	Lower	Upper
96	100		
61	144.8	0.0	291.0
98	65.0	0.0	130.0

Manual Integrations
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Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 48.601 ug/l

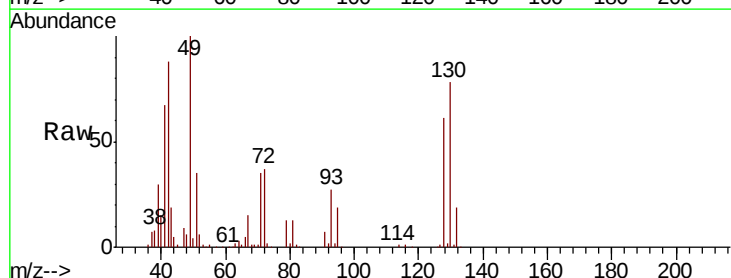
RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

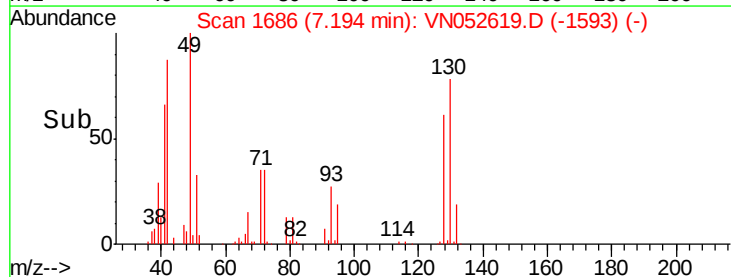
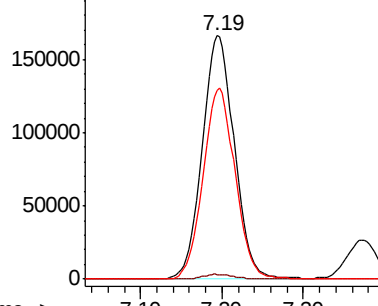
Lab File: VN052619.D

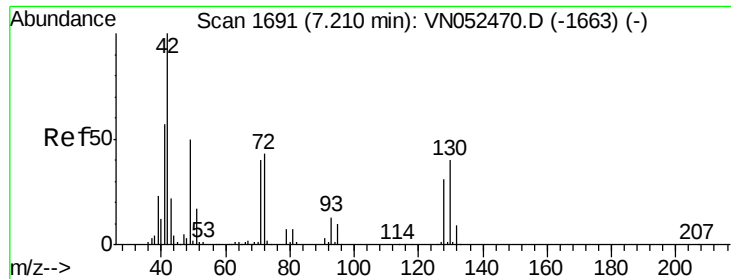
Acq: 3 Dec 2018 9:20

Tgt Ion:	49	Resp:	454556
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	78.3	60.2	90.2



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





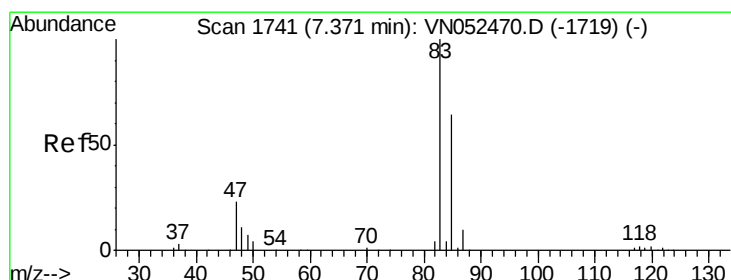
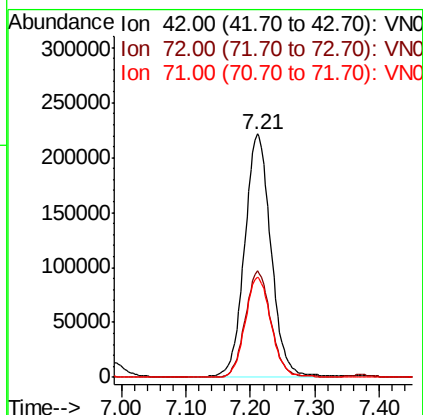
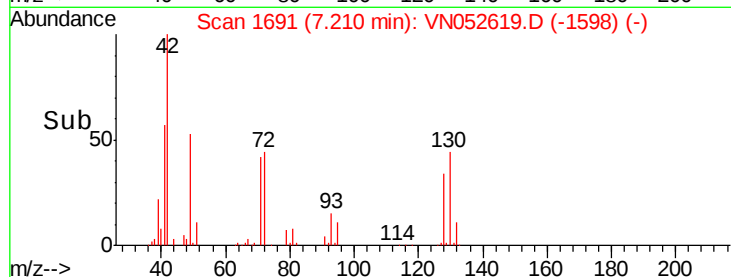
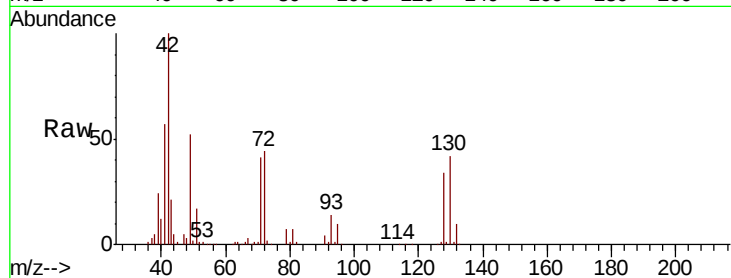
#29
Tetrahydrofuran
Concen: 227.677 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.6	33.3	49.9
71	40.5	32.0	48.0

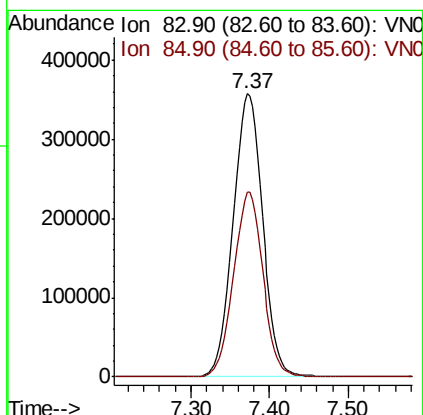
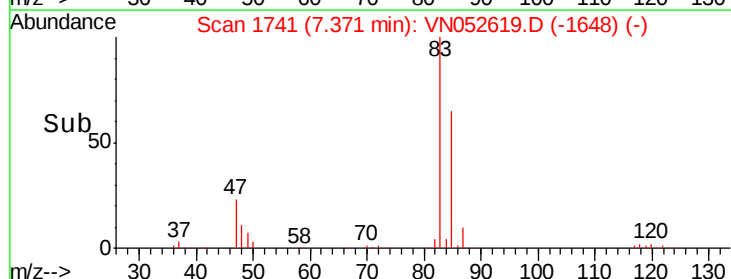
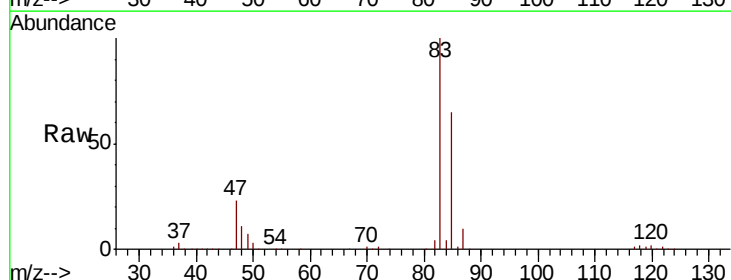
Manual Integrations
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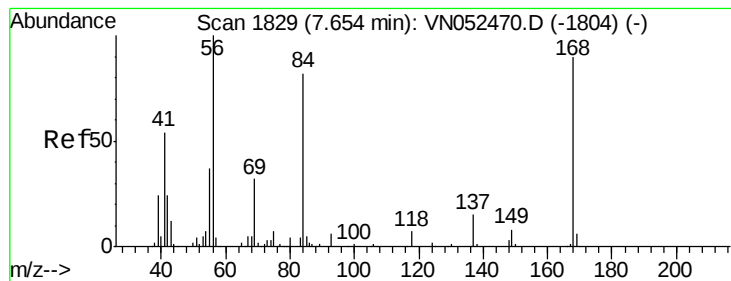
MMDadoda
12/4/2018 2:56:38 PM



#30
Chloroform
Concen: 45.975 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.0	76.4





#31

Cyclohexane

Concen: 45.307 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

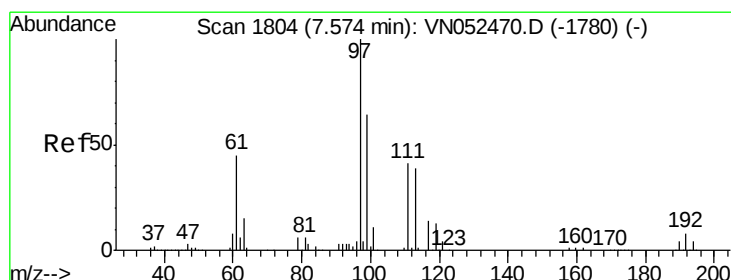
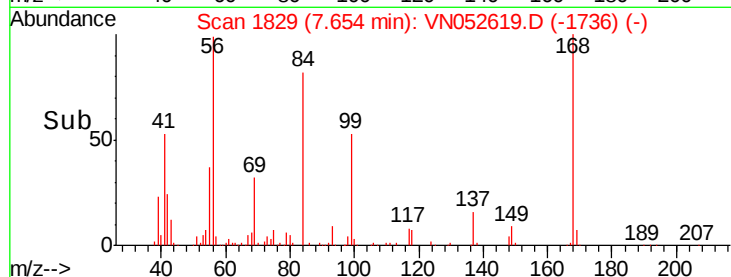
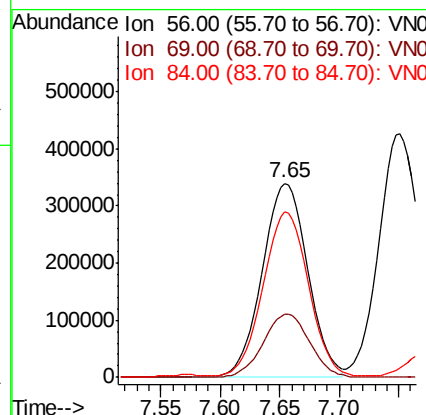
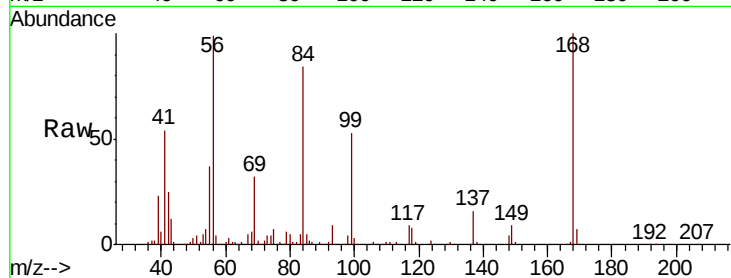
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	898641
Ion Ratio	Lower	Upper	
56	100		
69	32.6	25.8	38.6
84	84.0	65.3	97.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 48.022 ug/l

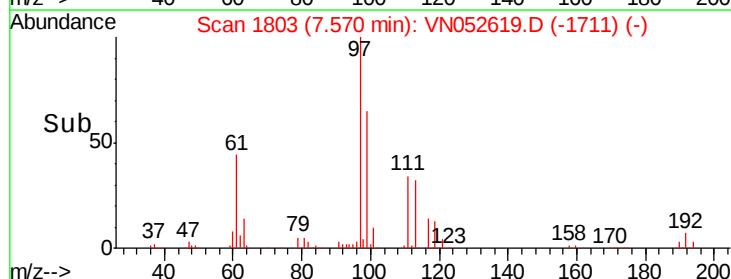
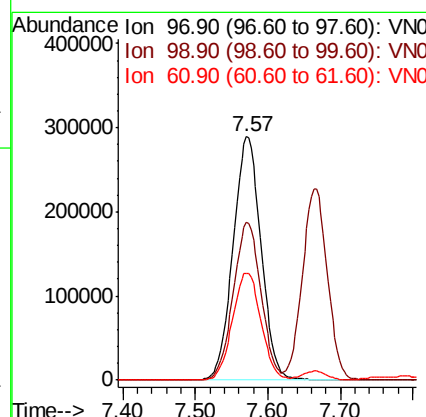
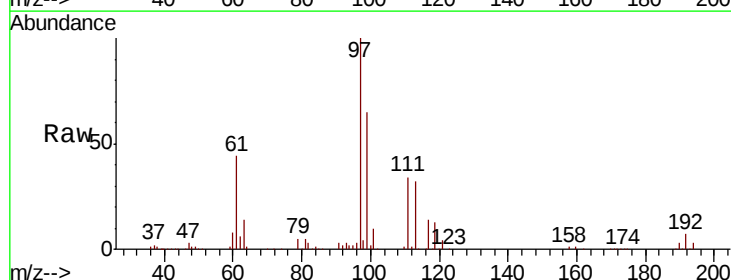
RT: 7.57 min Scan# 1803

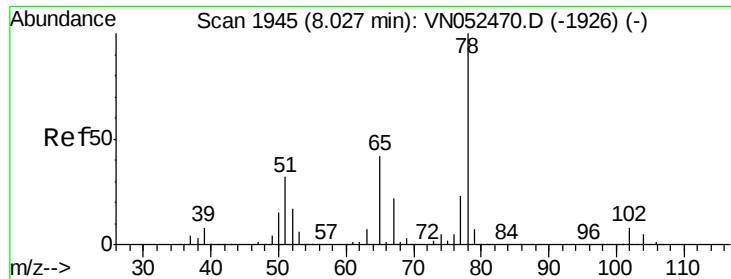
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	97	Resp:	777322
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.7	77.5
61	44.8	36.8	55.2





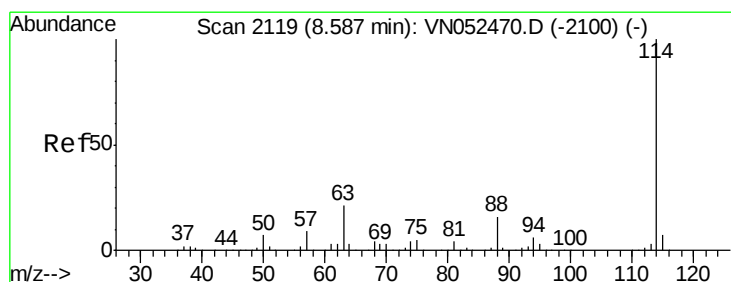
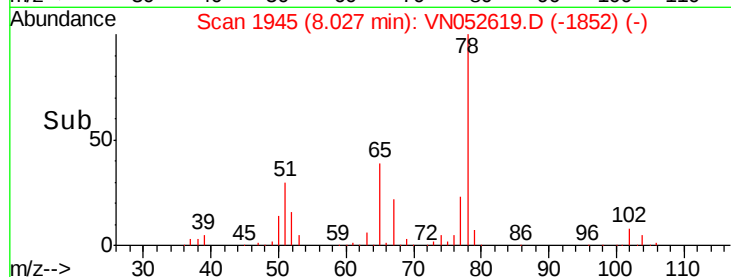
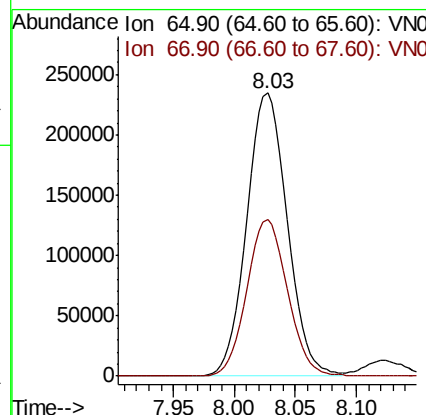
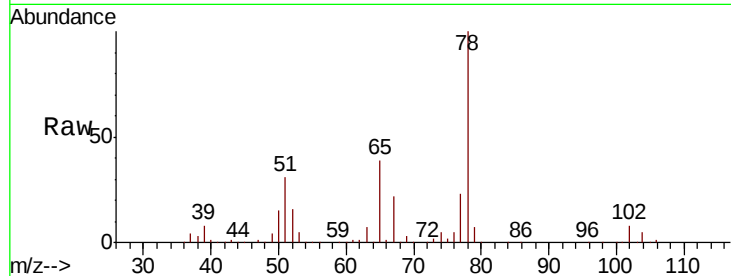
#33
 1,2-Dichloroethane-d4
 Concen: 48.022 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.5	0.0	109.8	

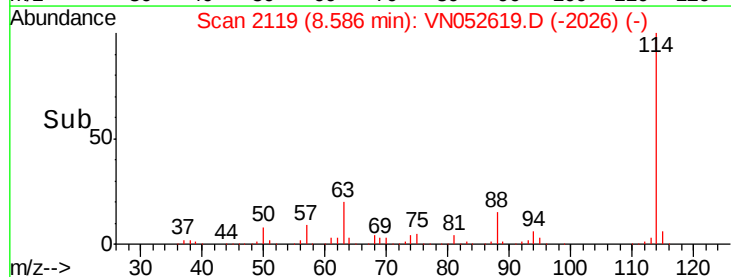
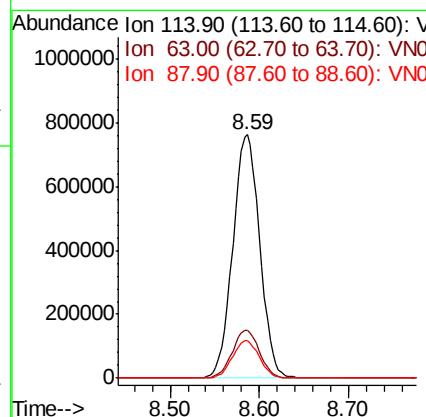
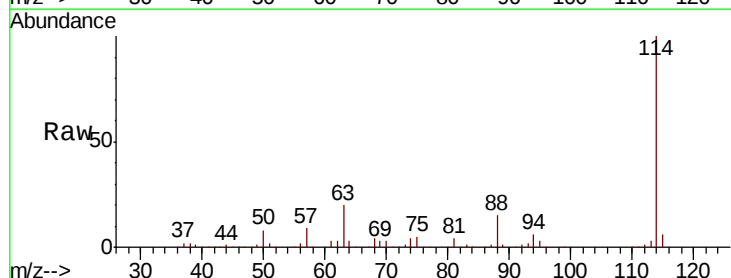
Manual Integrations
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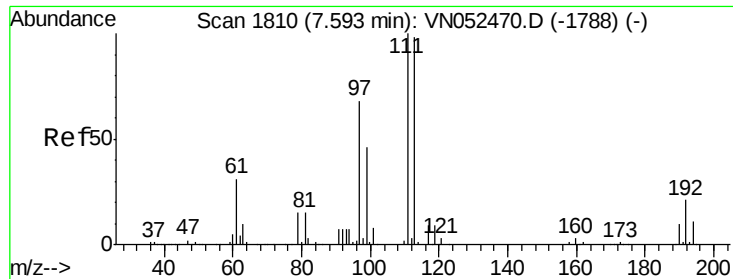
MMDadoda
 12/4/2018 2:56:38 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.7	0.0	41.8	
88	15.3	0.0	31.6	





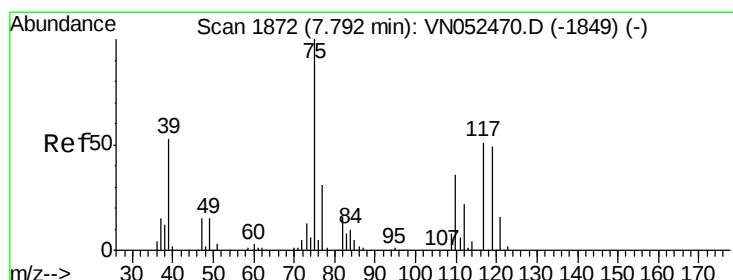
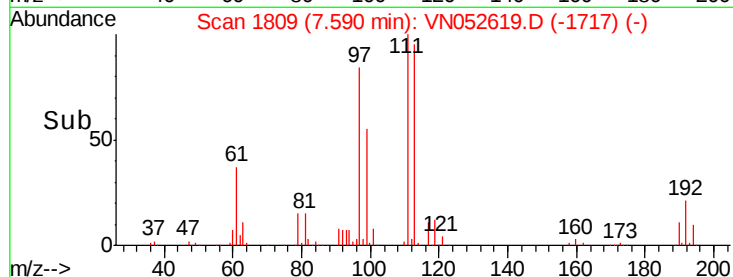
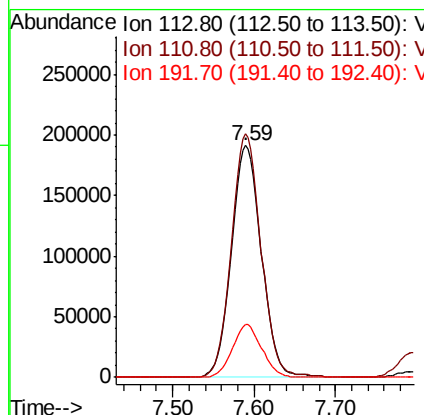
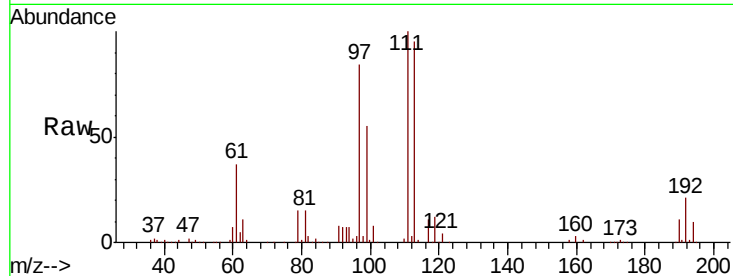
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	491992		
111	103.8	82.0	123.0	
192	22.2	17.0	25.6	

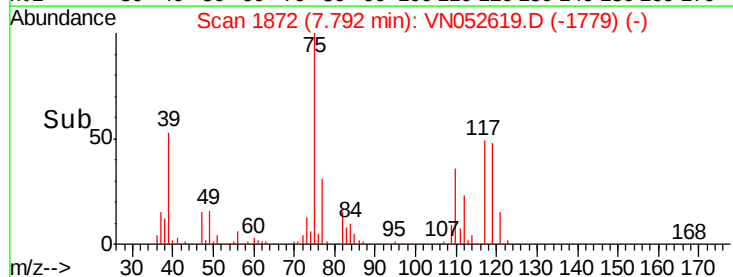
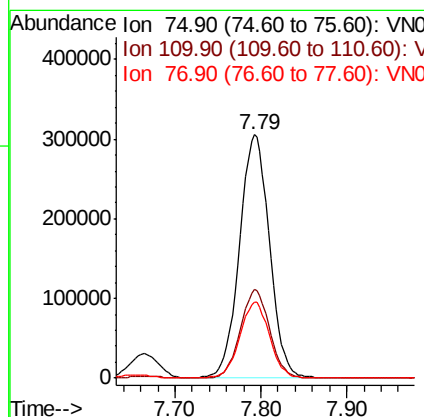
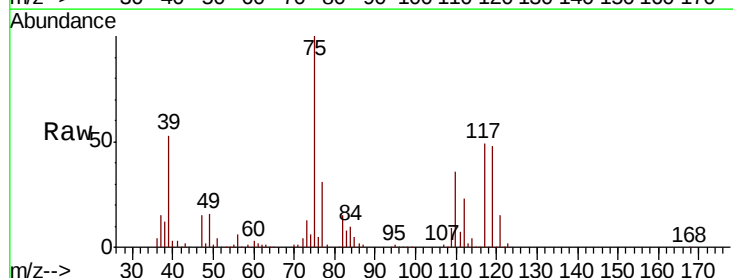
Manual Integrations
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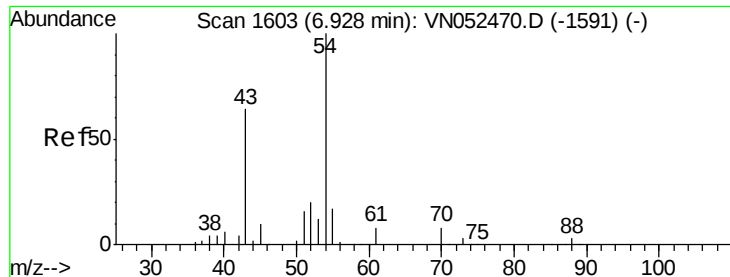
MMDadoda
 12/4/2018 2:56:38 PM



#36
 1,1-Dichloropropene
 Concen: 49.187 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	739282		
110	35.4	17.5	52.6	
77	31.0	24.5	36.7	





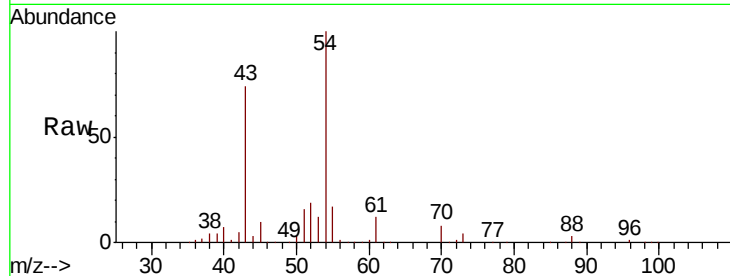
#37
Ethyl Acetate
Concen: 46.223 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.8
70	9.8	7.8	11.8

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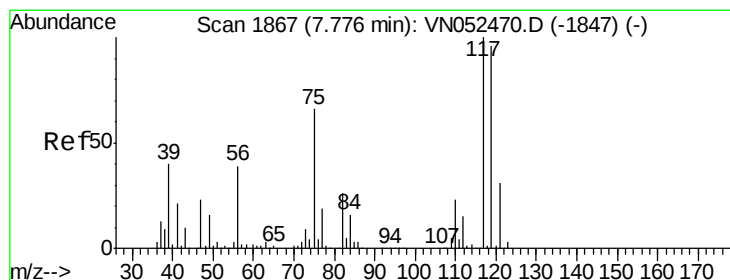
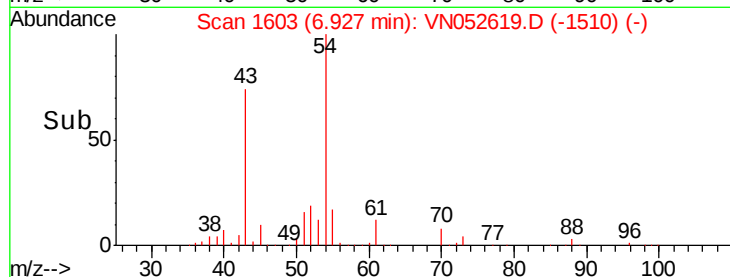
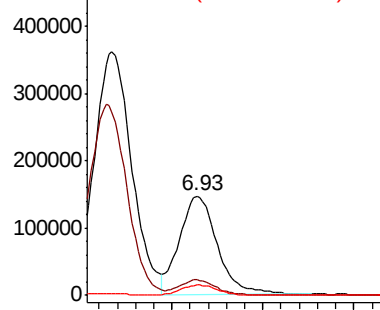


Abundance

Ion 43.00 (42.70 to 43.70): VN052470.D (-1591) (-)

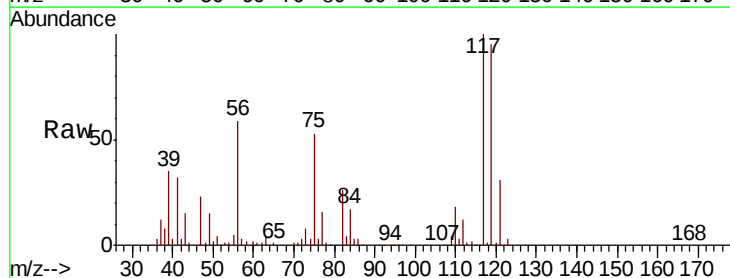
Ion 60.90 (60.60 to 61.60): VN052470.D (-1591) (-)

Ion 70.00 (69.70 to 70.70): VN052470.D (-1591) (-)



#38
Carbon Tetrachloride
Concen: 49.788 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.8	115.2
121	30.8	24.9	37.3

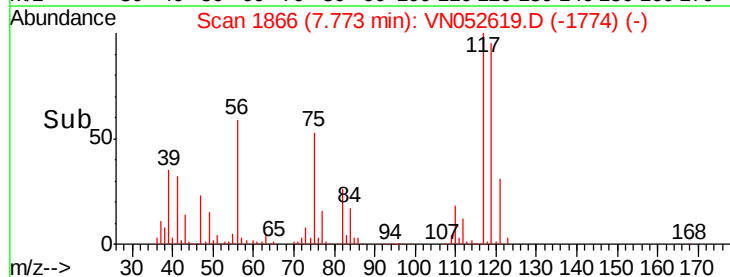
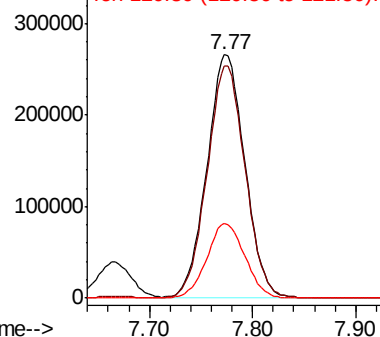


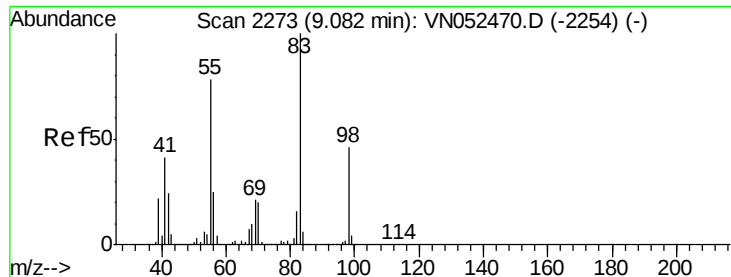
Abundance

Ion 116.80 (116.50 to 117.50): VN052470.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN052470.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN052470.D (-1847) (-)





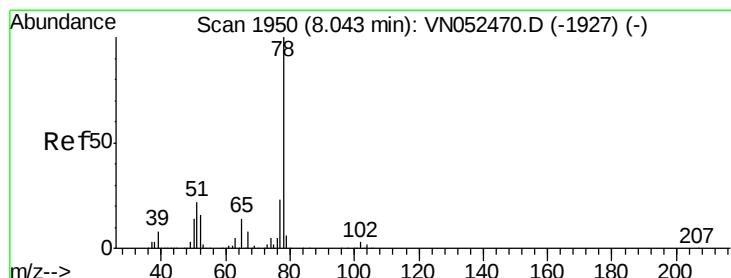
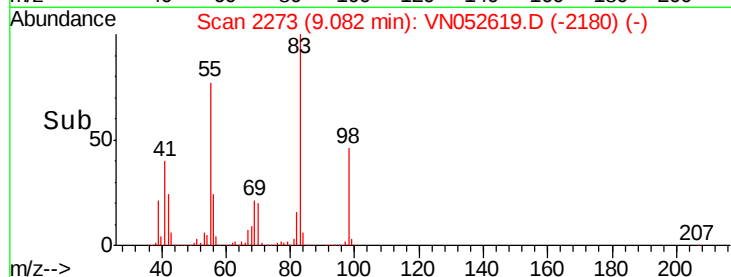
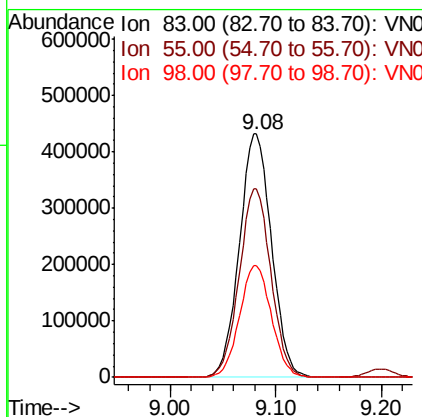
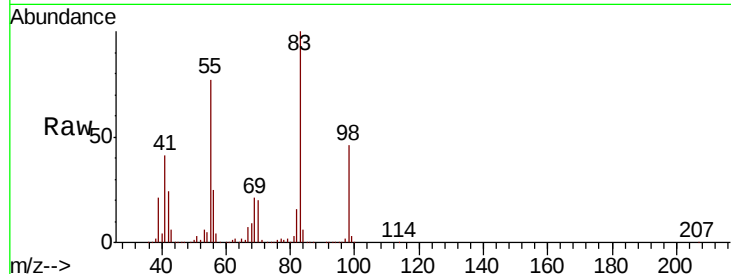
#39
Methvlcvclohexane
Concen: 50.011 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	62.2	93.2
98	46.1	36.4	54.6

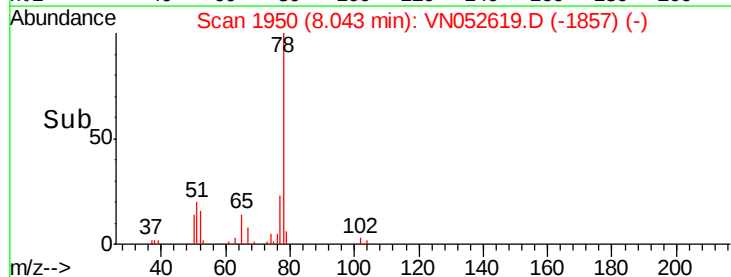
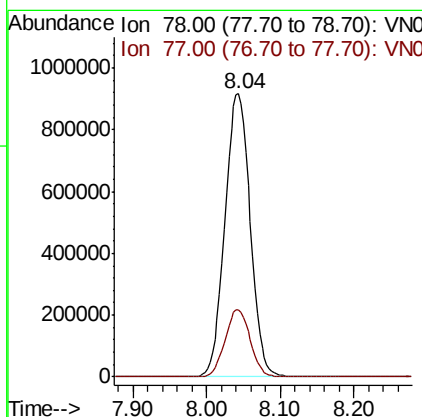
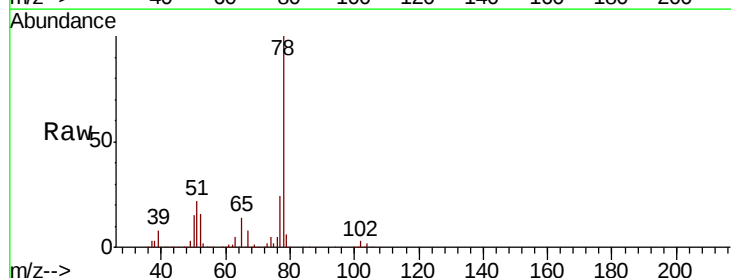
Manual Integrations
APPROVED

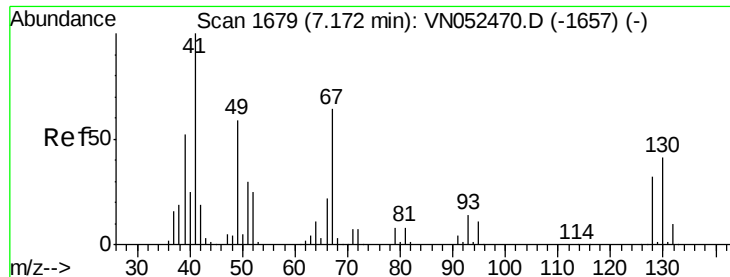
MMDadoda
12/4/2018 2:56:38 PM



#40
Benzene
Concen: 48.783 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2





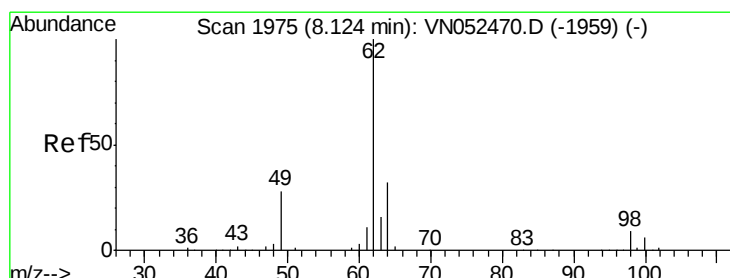
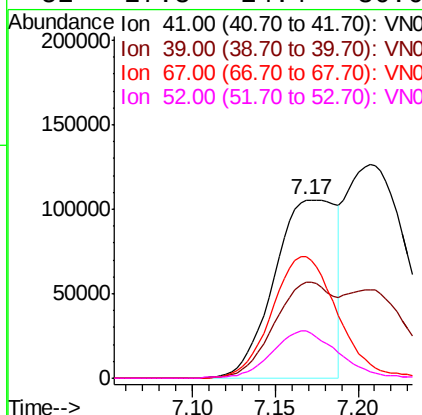
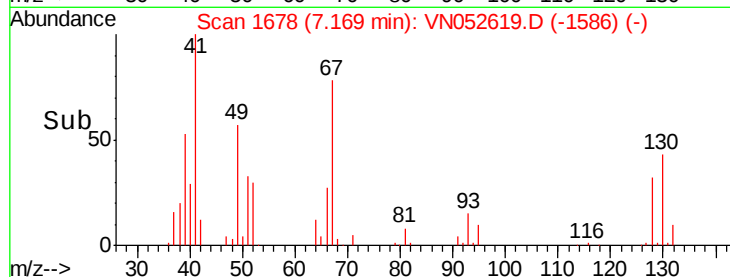
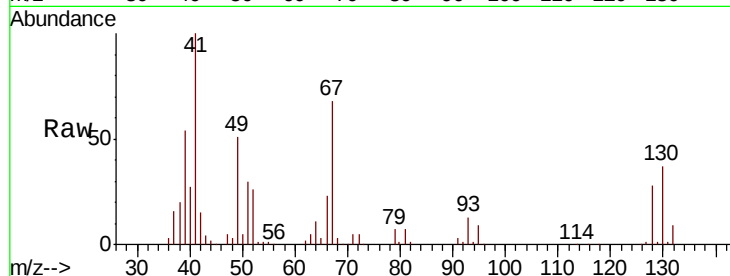
#41
Methacrylonitrile
Concen: 54.340 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	272504
Ion	Ratio	Lower	Upper
41	100		
39	51.8	50.9	76.3
67	72.7	63.6	95.4
52	27.8	24.4	36.6

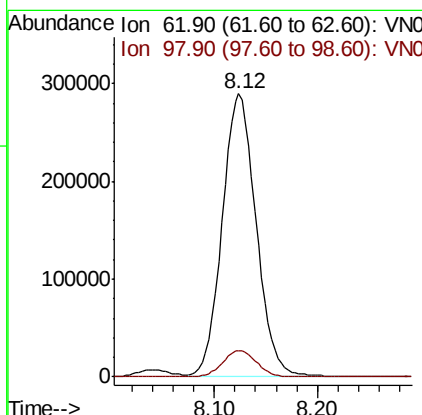
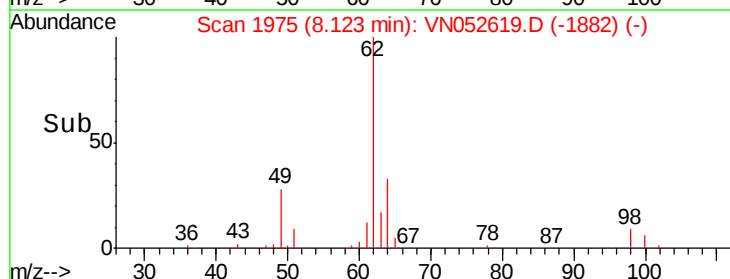
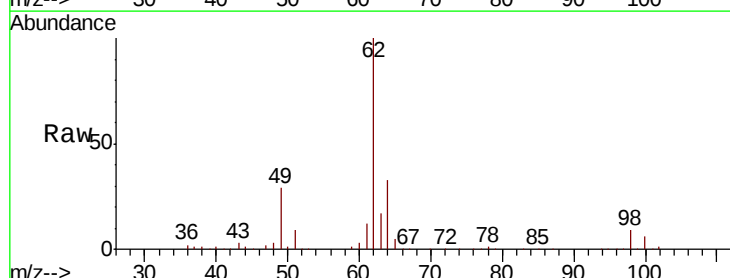
Manual Integrations
APPROVED

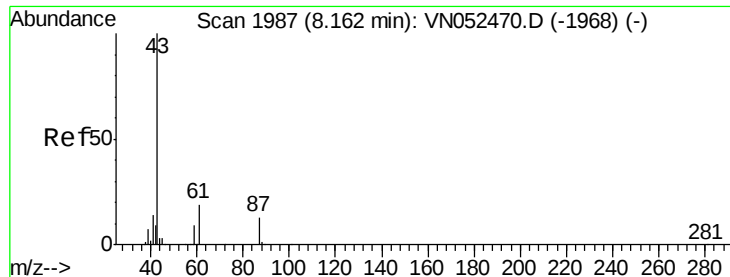
MMDadoda
12/4/2018 2:56:38 PM



#42
1,2-Dichloroethane
Concen: 48.724 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion:	62	Resp:	660820
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.6





#43

Isopropyl Acetate

Concen: 48.699 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

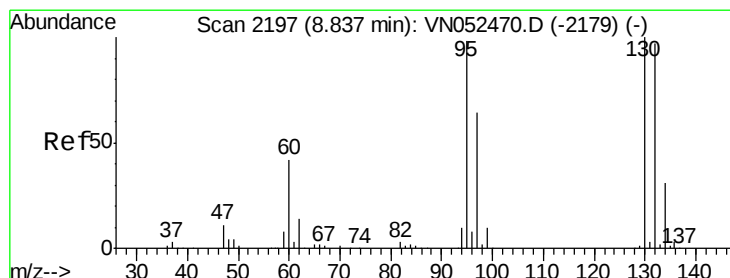
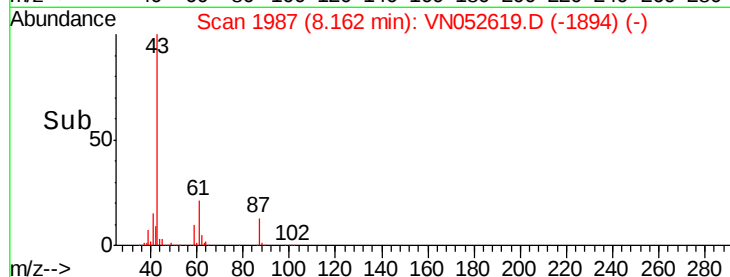
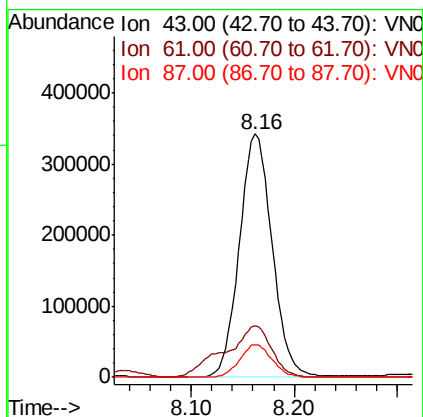
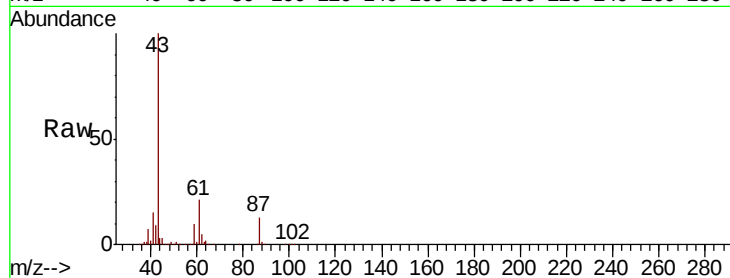
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	755959
Ion	Ratio	Lower	Upper
43	100		
61	29.8	24.1	36.1
87	13.4	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
12/4/2018 2:56:38 PM



#44

Trichloroethene

Concen: 50.114 ug/l

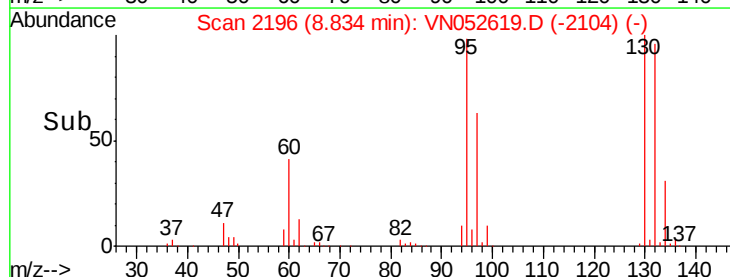
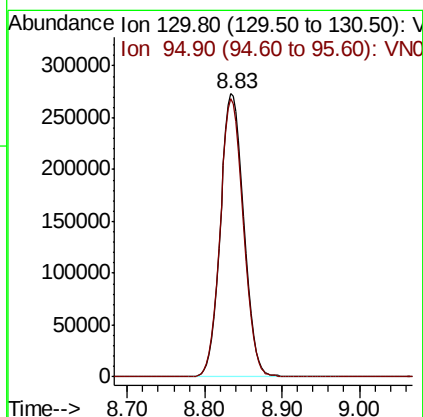
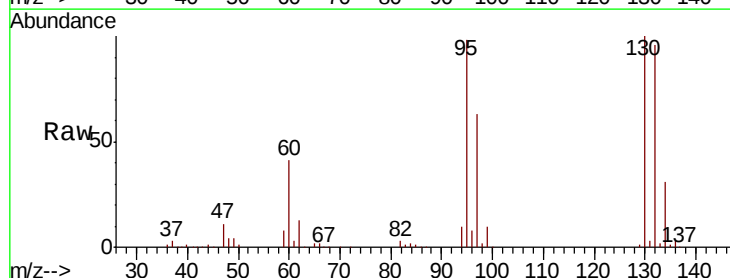
RT: 8.83 min Scan# 2196

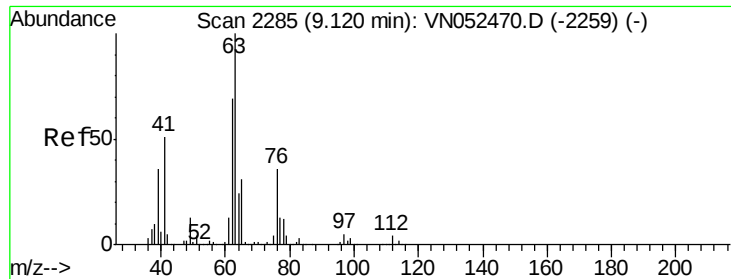
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	130	Resp:	574983
Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	195.6





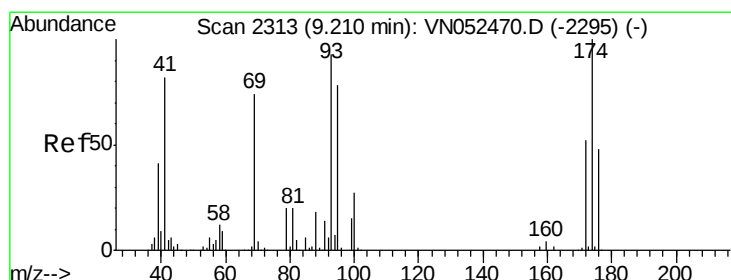
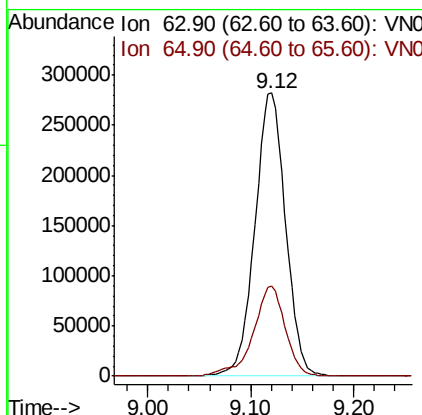
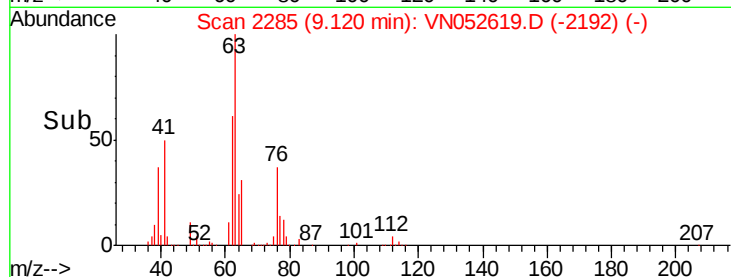
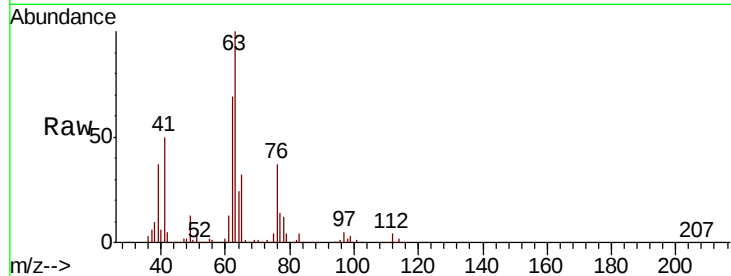
#45
 1,2-Dichloropropane
 Concen: 48.728 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 580281
 Ion Ratio Lower Upper
 63 100
 65 31.7 25.0 37.6

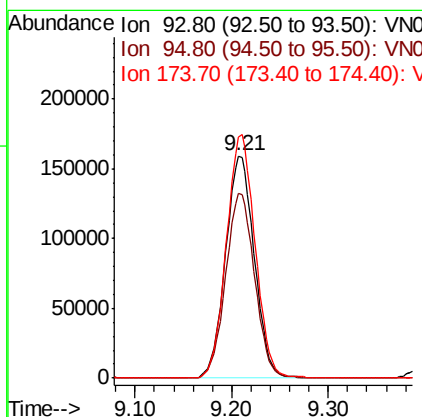
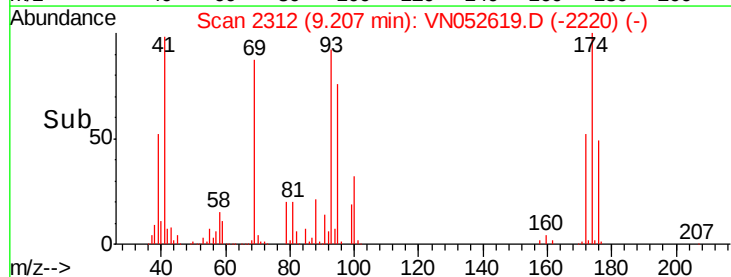
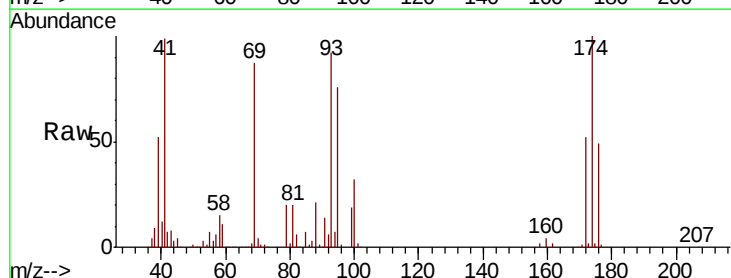
Manual Integrations
 APPROVED

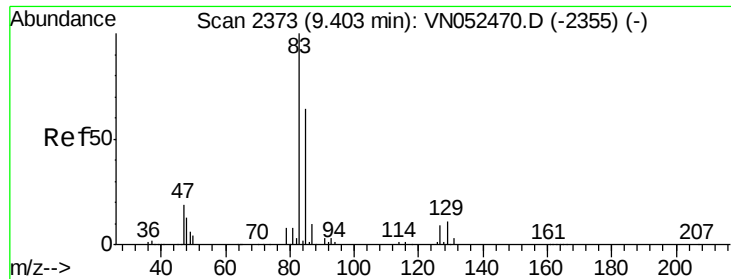
MMDadoda
 12/4/2018 2:56:38 PM



#46
 Dibromomethane
 Concen: 49.982 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion: 93 Resp: 329506
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.1 100.7
 174 109.2 85.8 128.8





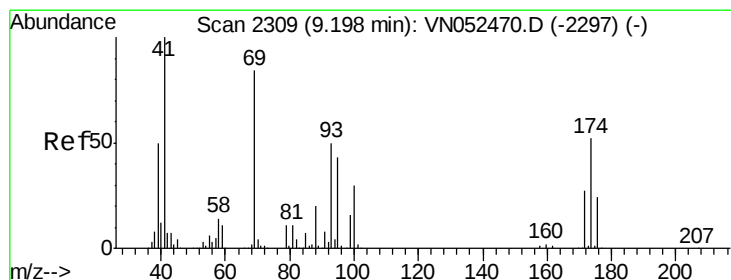
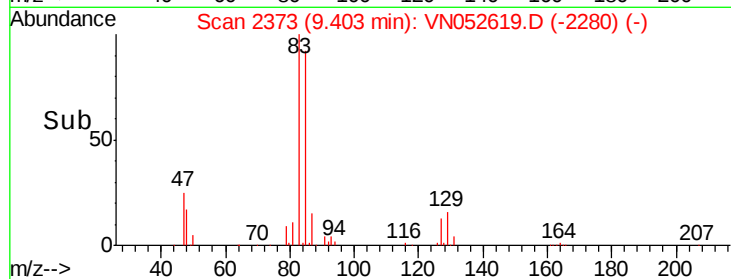
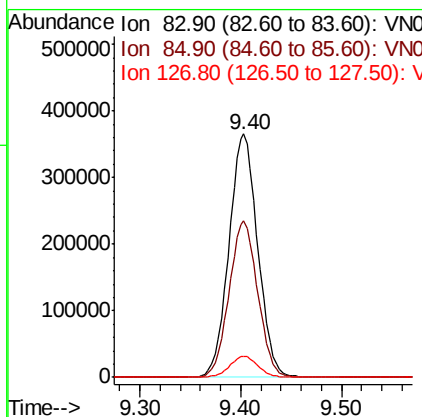
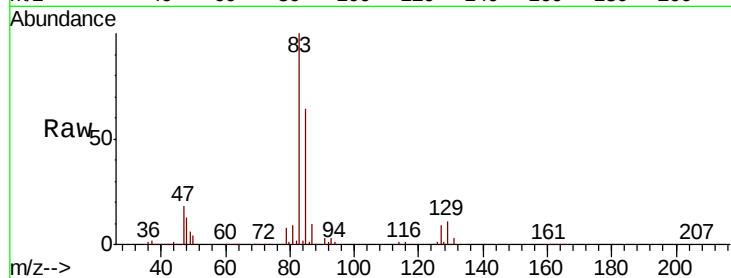
#47
Bromodichloromethane
Concen: 50.432 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	722846		
85	64.2	51.3	76.9	
127	8.8	6.9	10.3	

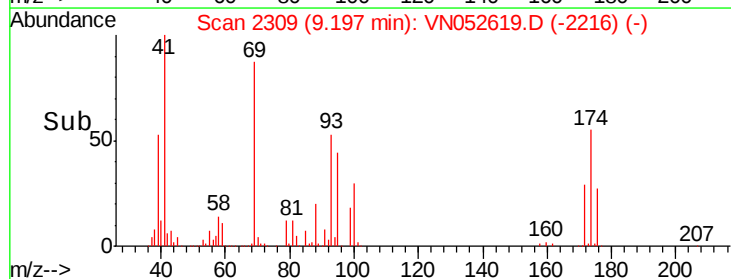
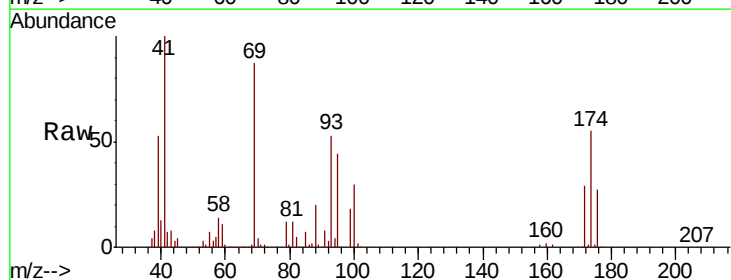
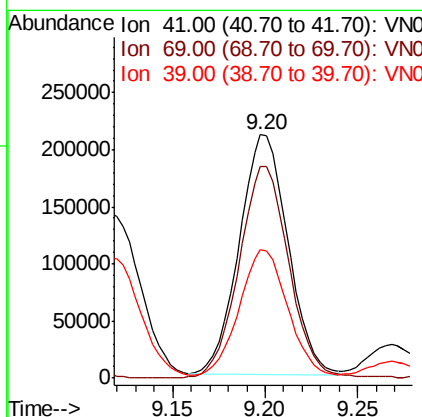
Manual Integrations
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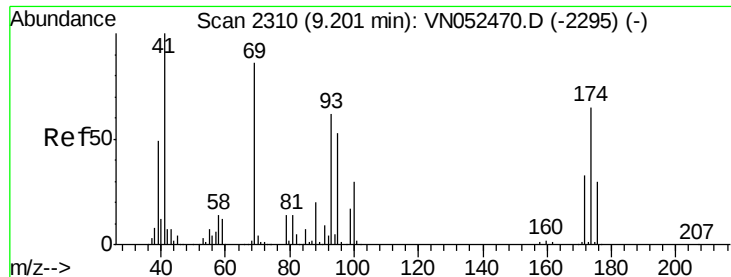
MMDadoda
12/4/2018 2:56:38 PM



#48
Methyl methacrylate
Concen: 47.216 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	382175		
69	90.8	70.0	105.0	
39	53.9	42.6	64.0	





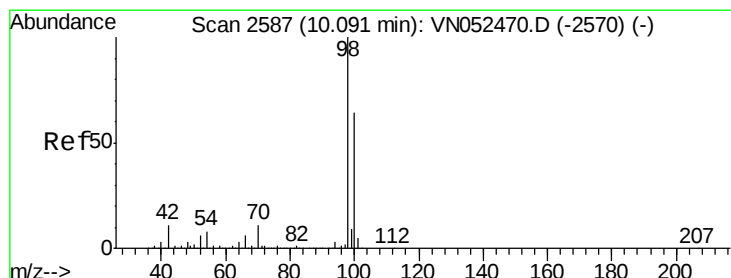
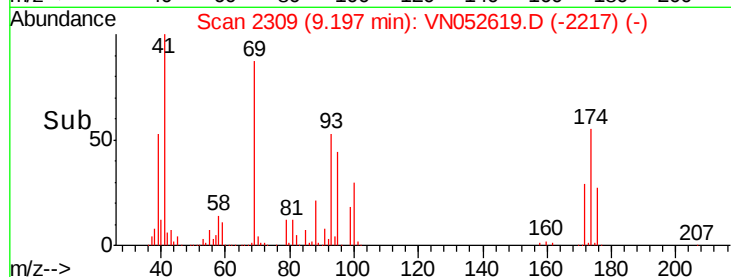
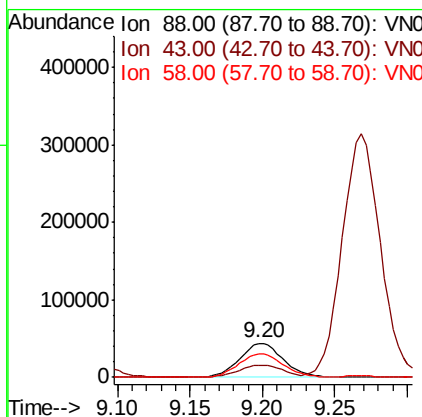
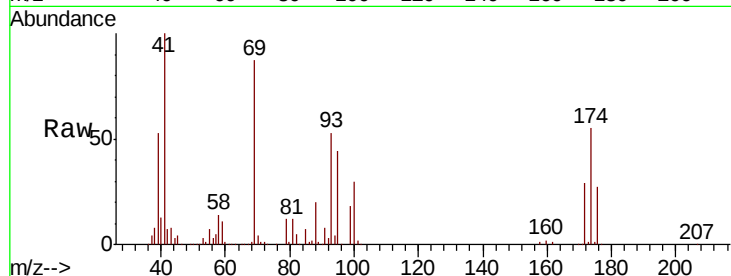
#49
1,4-Dioxane
Concen: 1093.119 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.0	26.4	39.6
58	71.3	55.4	83.0

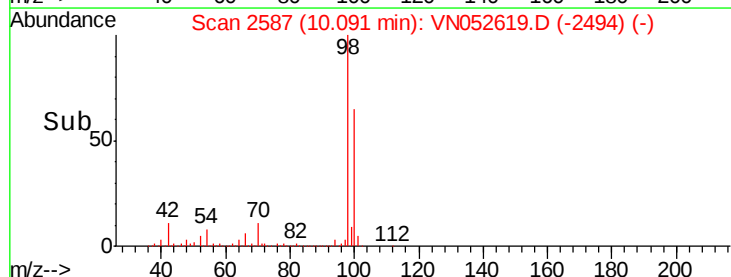
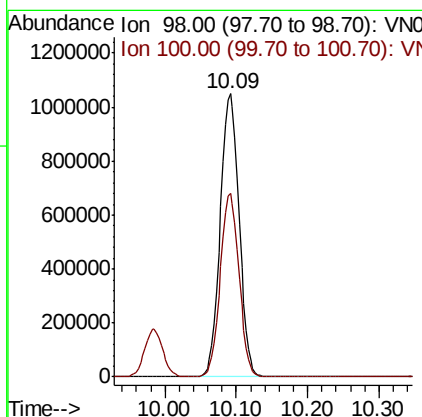
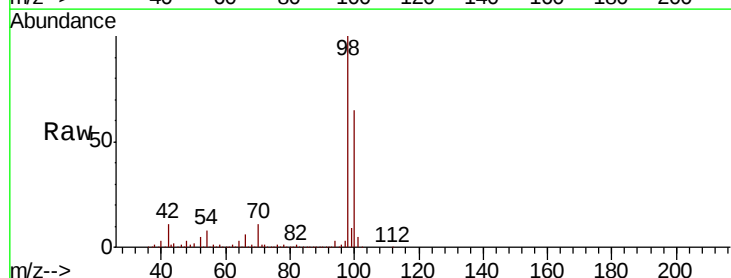
Manual Integrations
APPROVED

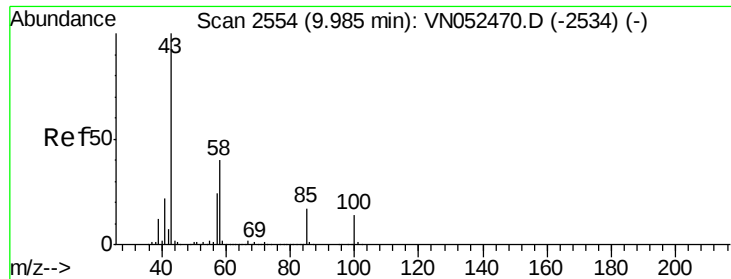
MMDadoda
12/4/2018 2:56:38 PM



#50
Toluene-d8
Concen: 1093.119 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.3	76.9





#51

4-Methyl-2-Pentanone

Concen: 246.522 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2147092

Ion Ratio Lower Upper

43 100

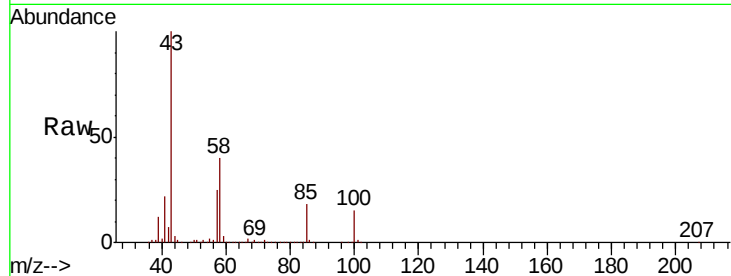
58 40.1 31.5 47.3

Manual Integrations

APPROVED

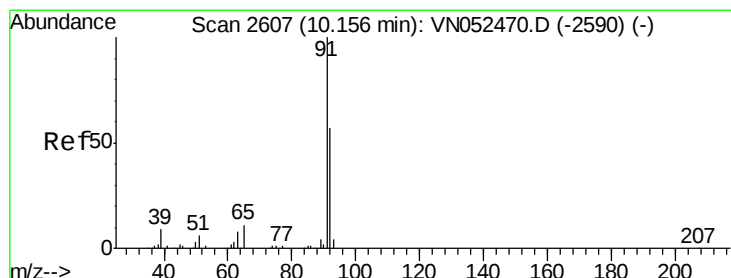
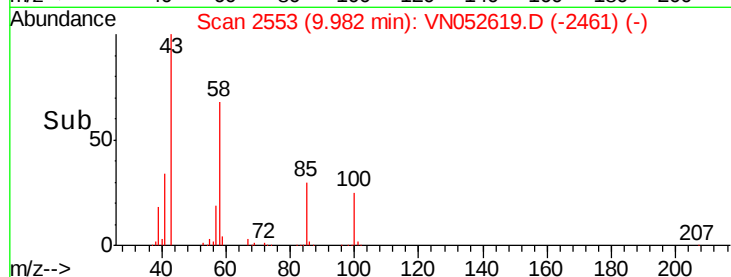
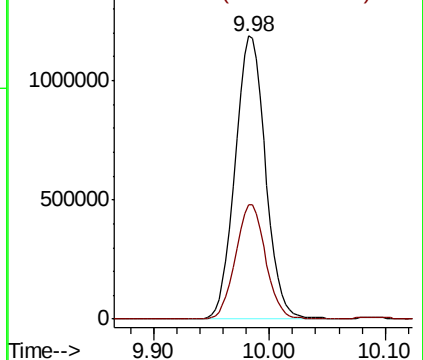
MMDadoda

12/4/2018 2:56:38 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 50.670 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052619.D

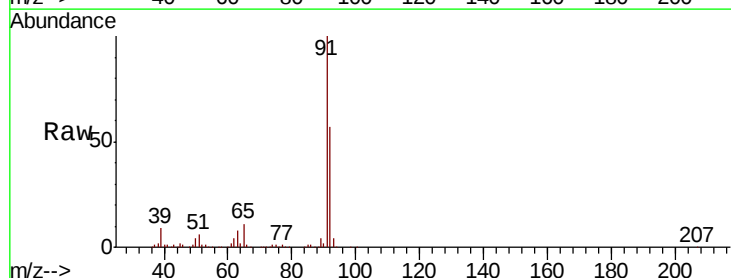
Acq: 3 Dec 2018 9:20

Tgt Ion: 92 Resp: 1348490

Ion Ratio Lower Upper

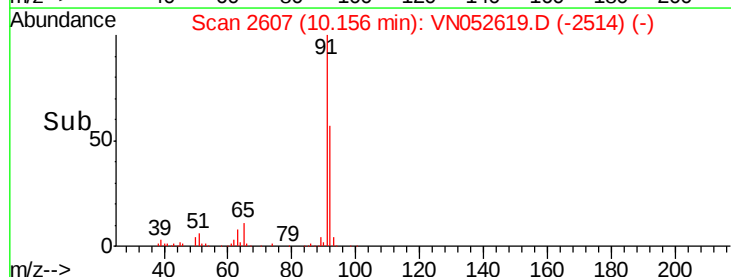
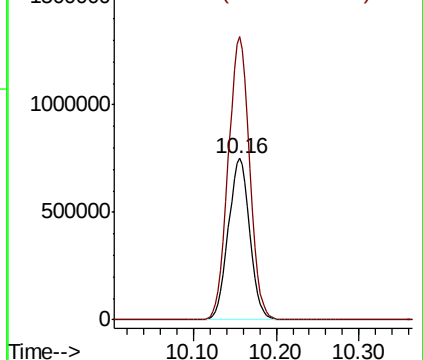
92 100

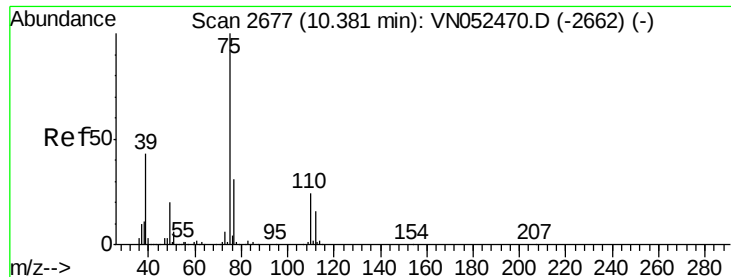
91 175.8 141.0 211.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 52.477 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 723599

Ion Ratio Lower Upper

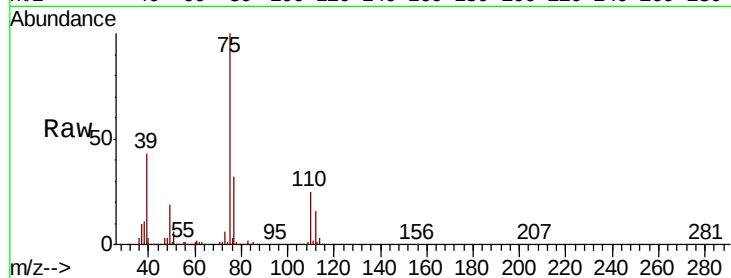
75 100

77 31.9 25.0 37.4

Manual Integrations
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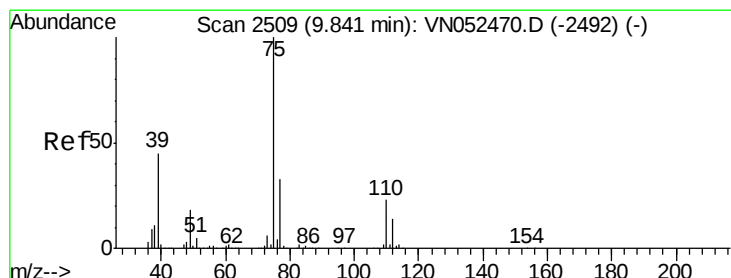
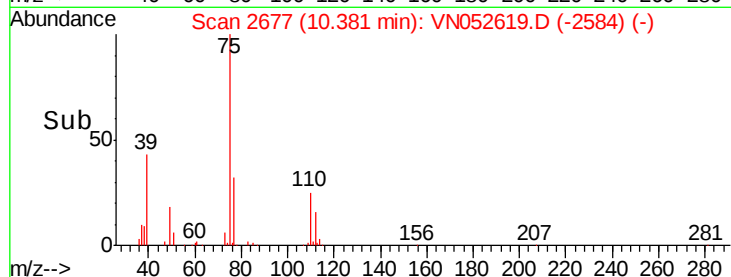
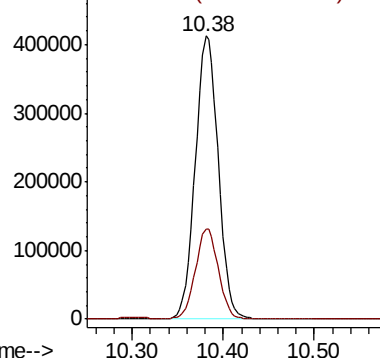
MMDadoda

12/4/2018 2:56:38 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 52.100 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

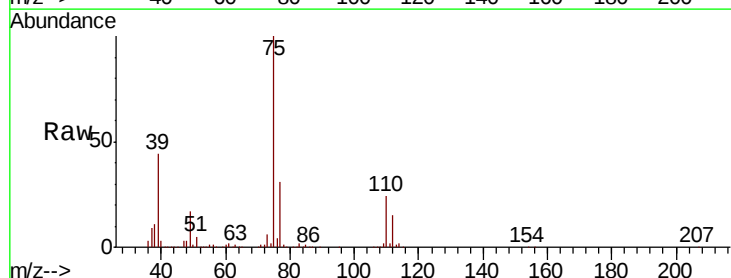
Tgt Ion: 75 Resp: 860901

Ion Ratio Lower Upper

75 100

77 31.2 26.2 39.2

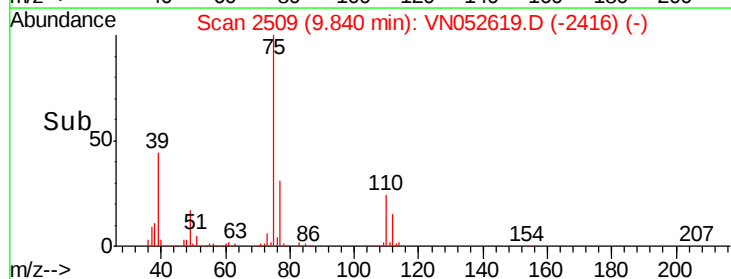
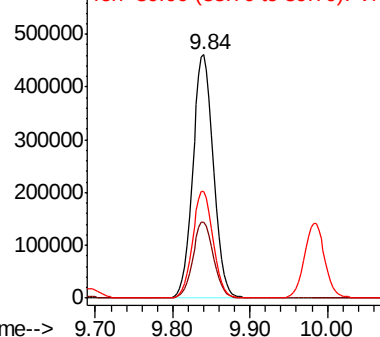
39 43.9 36.0 54.0

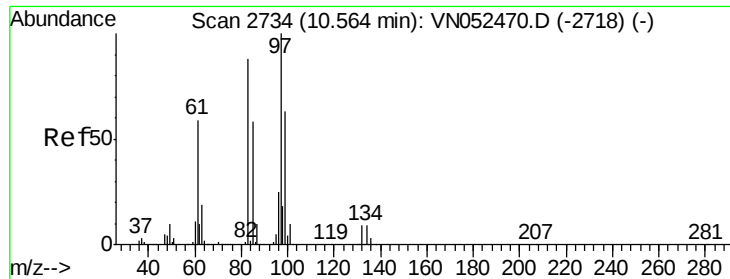


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





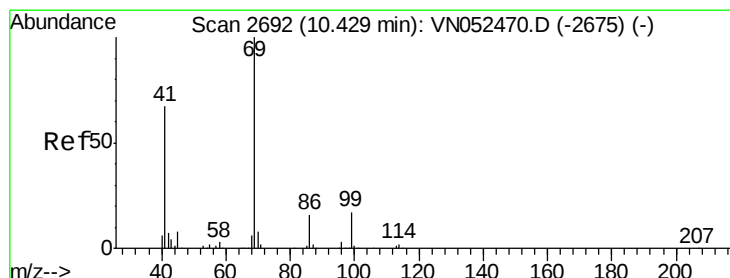
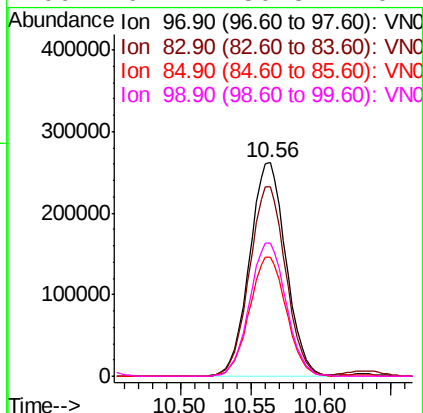
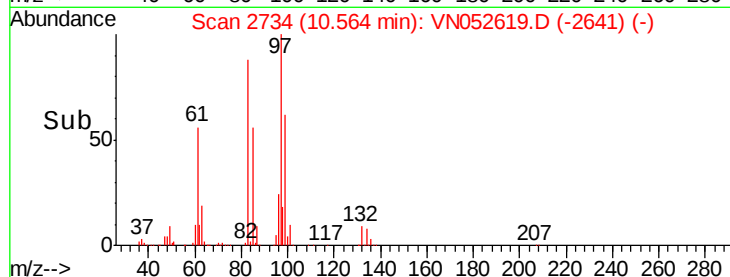
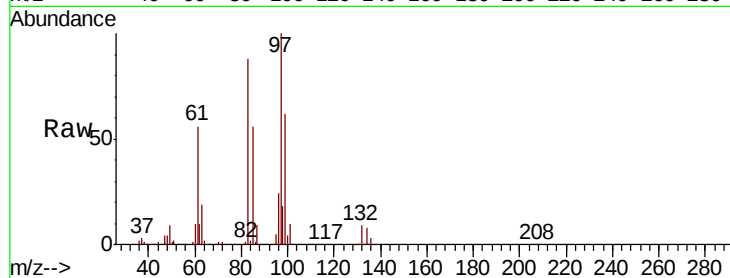
#55
 1,1,2-Trichloroethane
 Concen: 50.617 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	473840
Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.7	106.1
85	56.0	46.1	69.1
99	62.1	50.8	76.2

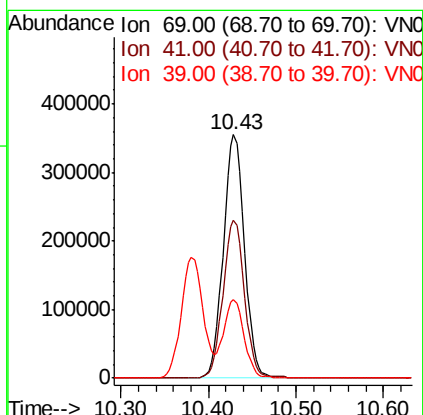
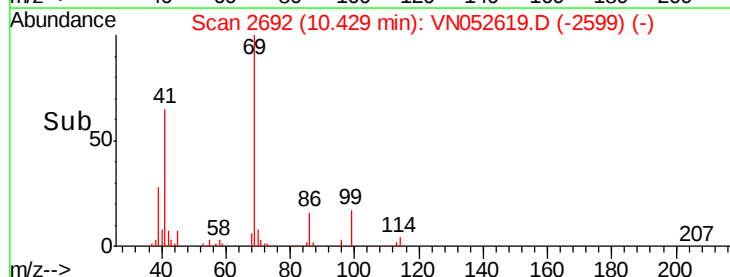
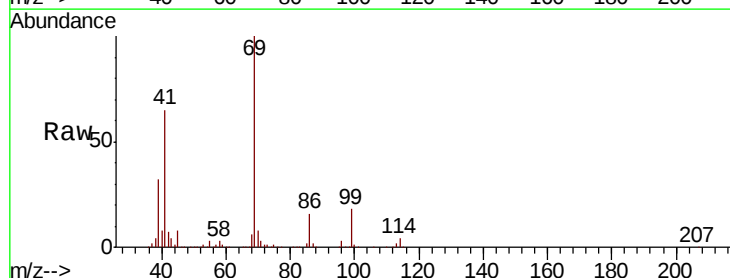
Manual Integrations
 APPROVED

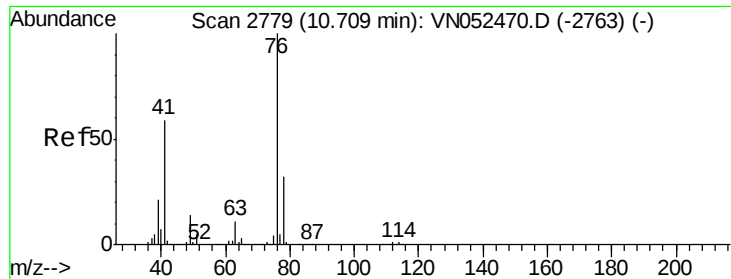
MMDadoda
 12/4/2018 2:56:38 PM



#56
 Ethyl methacrylate
 Concen: 46.146 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion:	69	Resp:	597004
Ion	Ratio	Lower	Upper
69	100		
41	64.8	52.6	79.0
39	31.8	25.9	38.9





#57

1,3-Dichloropropane

Concen: 49.316 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 76 Resp: 815165

Ion Ratio Lower Upper

76 100

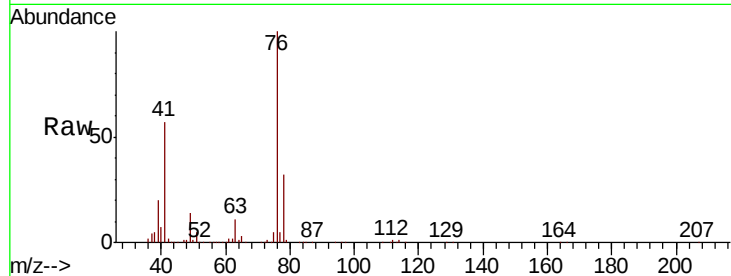
78 32.1 25.6 38.4

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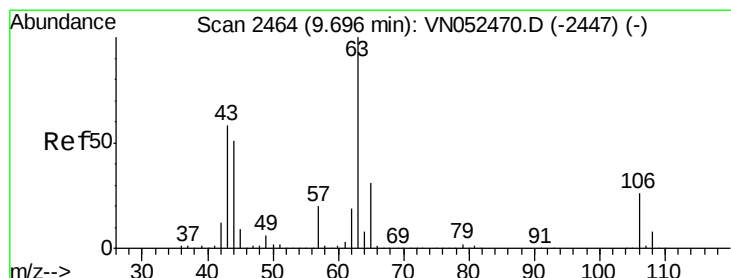
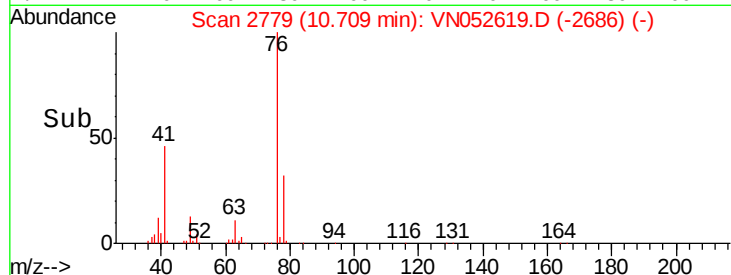
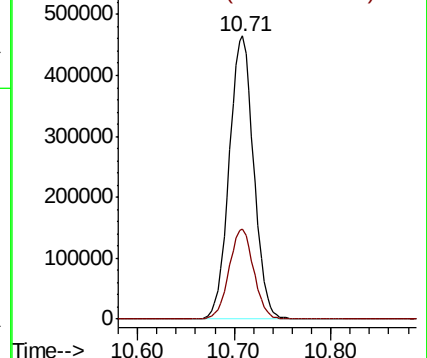
MMDadoda

12/4/2018 2:56:38 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 257.003 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052619.D

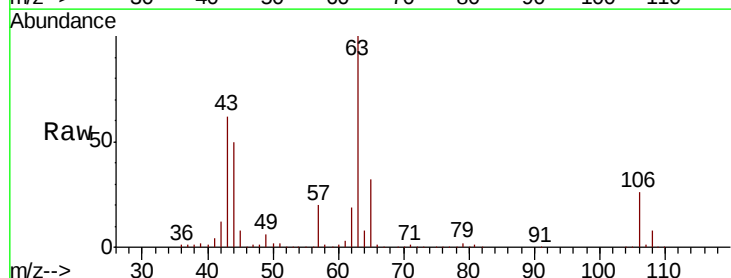
Acq: 3 Dec 2018 9:20

Tgt Ion: 63 Resp: 1745766

Ion Ratio Lower Upper

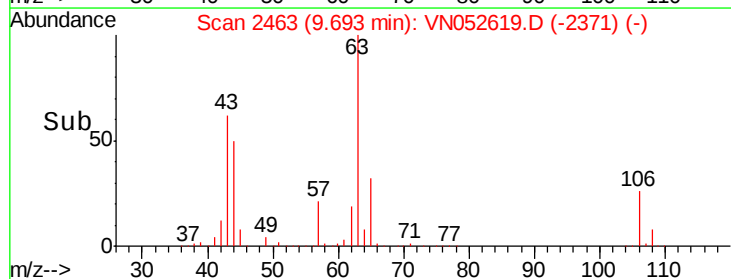
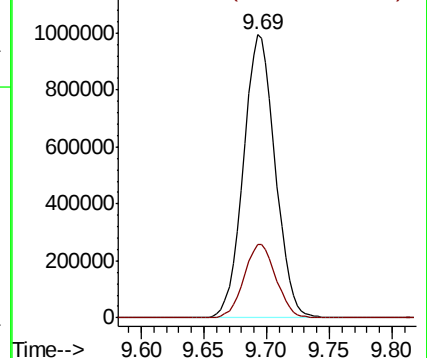
63 100

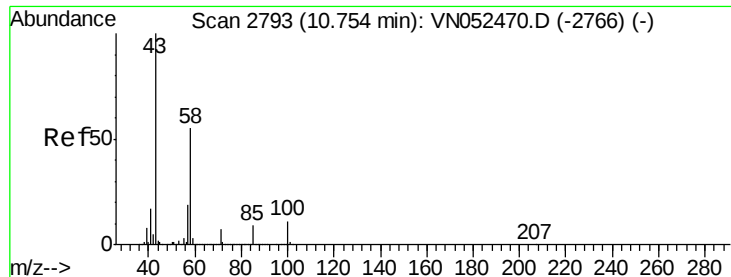
106 26.3 20.6 30.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





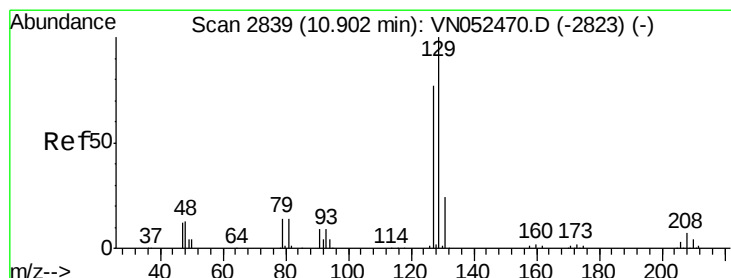
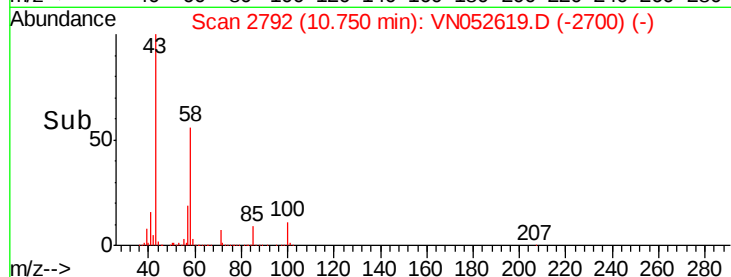
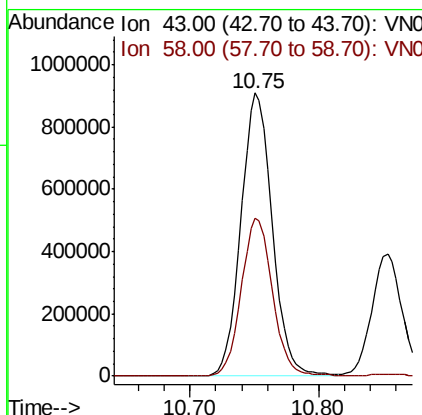
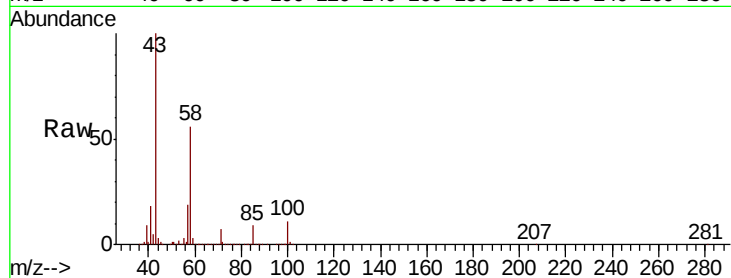
#59
2-Hexanone
Concen: 262.239 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1532900
Ion Ratio Lower Upper
43 100
58 55.7 27.4 82.0

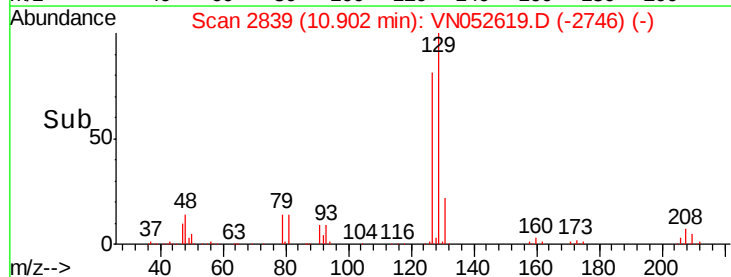
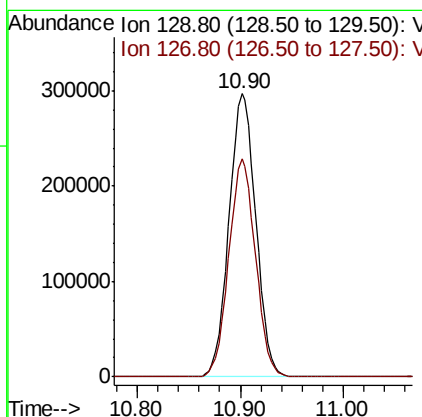
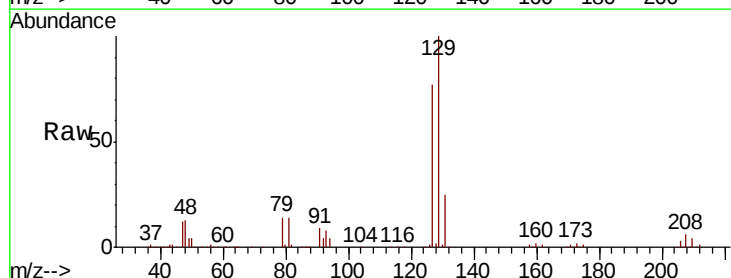
Manual Integrations
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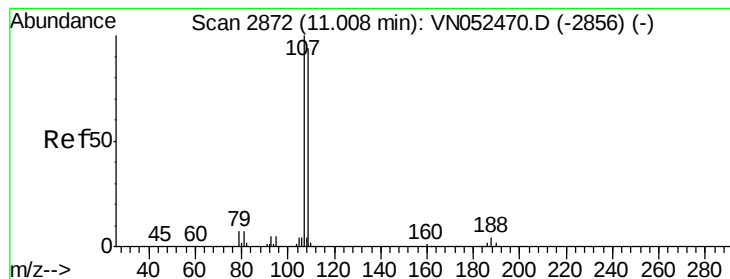
MMDadoda
12/4/2018 2:56:38 PM



#60
Dibromochloromethane
Concen: 52.926 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion: 129 Resp: 538116
Ion Ratio Lower Upper
129 100
127 76.5 38.9 116.6





#61

1,2-Dibromoethane

Concen: 50.125 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 466048

Ion Ratio Lower Upper

107 100

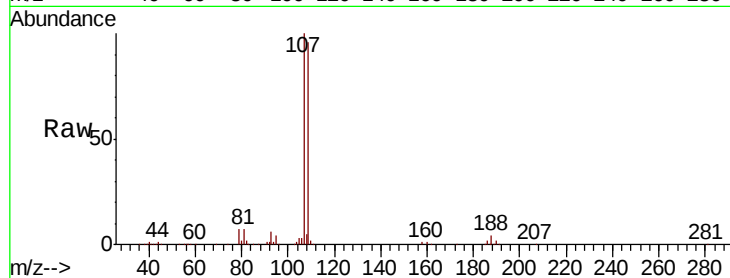
109 94.8 75.6 113.4

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

250000

200000

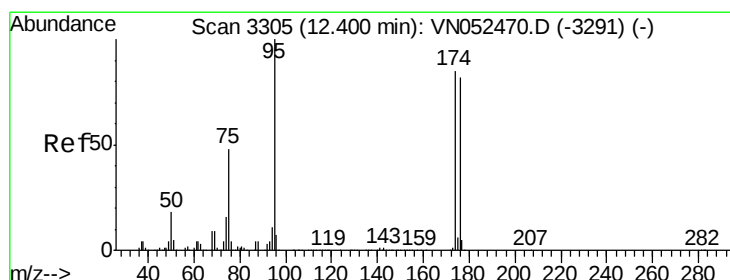
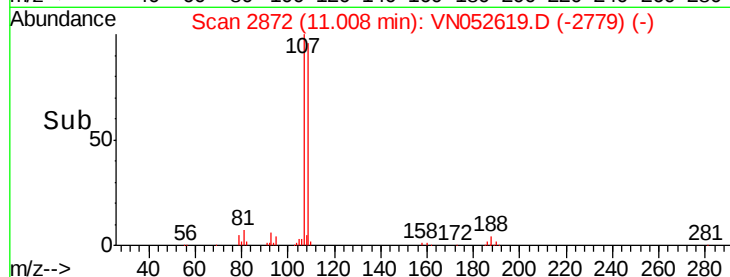
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 50.125 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

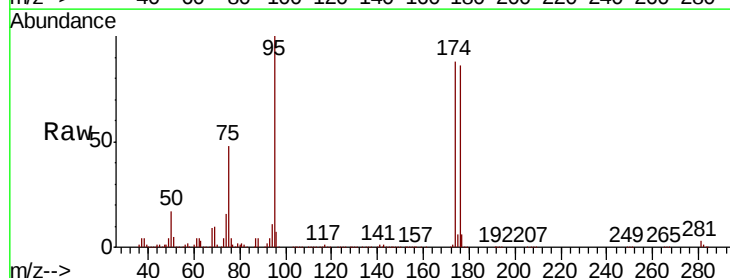
Tgt Ion: 95 Resp: 674370

Ion Ratio Lower Upper

95 100

174 87.4 0.0 173.0

176 85.4 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

500000

400000

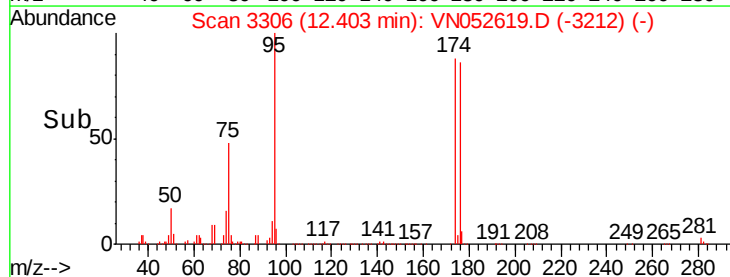
300000

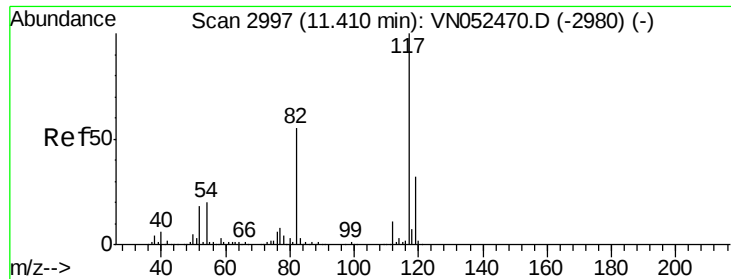
200000

100000

0

Time--> 12.30 12.35 12.40 12.45





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

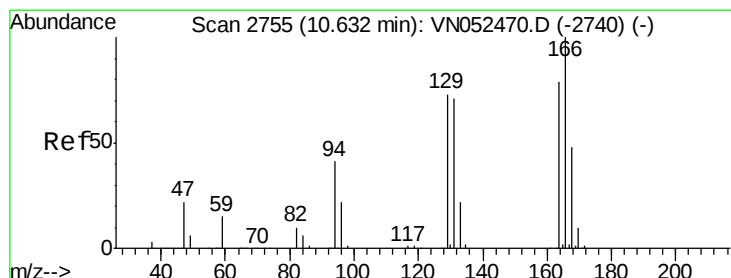
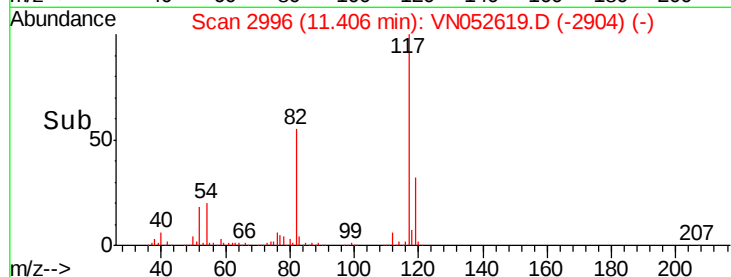
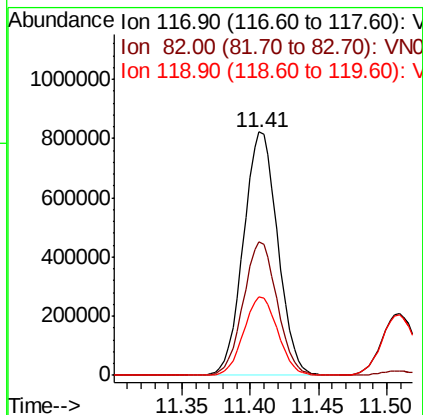
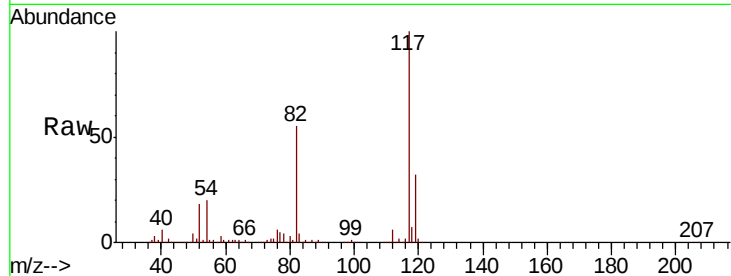
ClientSampled :

VSTDCCC050

Tot Ion:	117	Resp:	1432745
Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.6	65.4
119	32.3	25.4	38.2

Manual Integrations
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#64

Tetrachloroethene

Concen: 50.217 ug/l

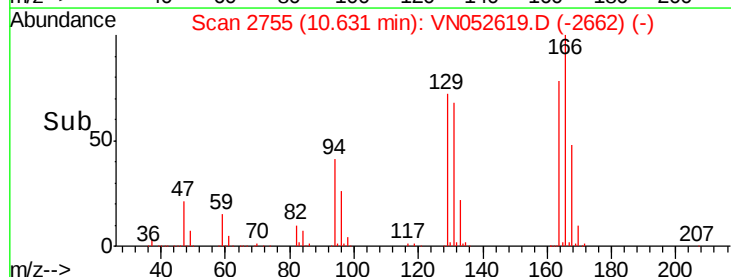
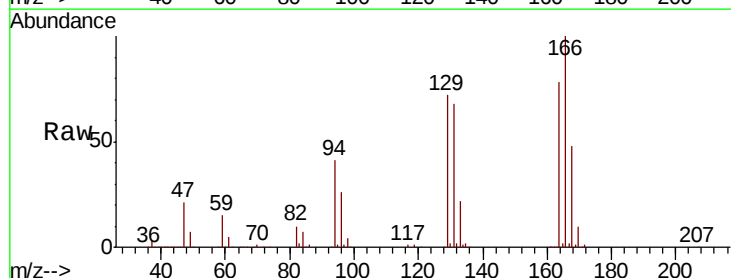
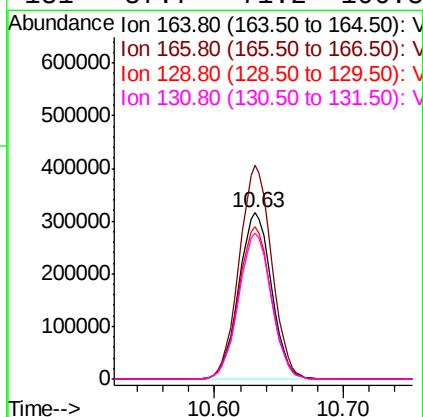
RT: 10.63 min Scan# 2755

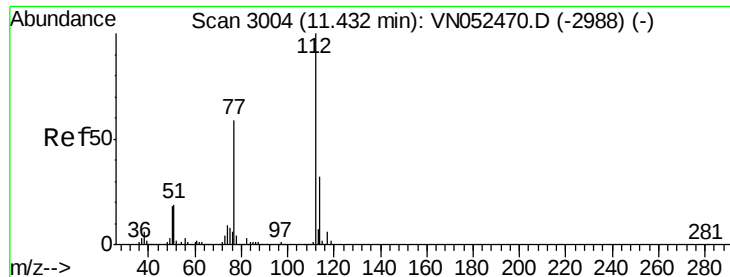
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	164	Resp:	557833
Ion	Ratio	Lower	Upper
164	100		
166	128.4	101.0	151.4
129	91.9	73.8	110.6
131	87.7	71.2	106.8





#65

Chlorobenzene

Concen: 50.553 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 1493487

Ion Ratio Lower Upper

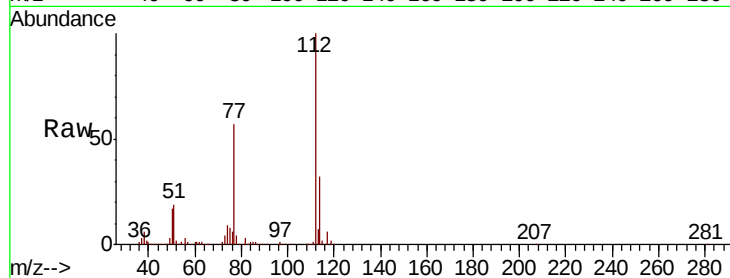
112 100

114 32.2 25.8 38.6

Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

800000

600000

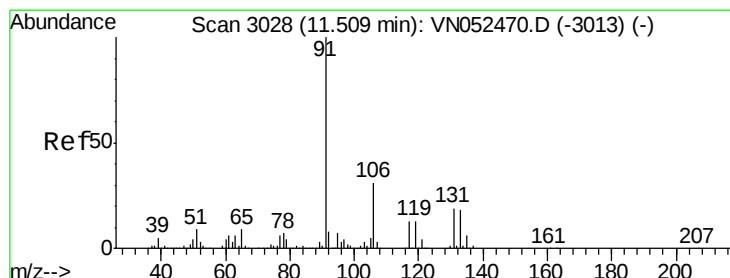
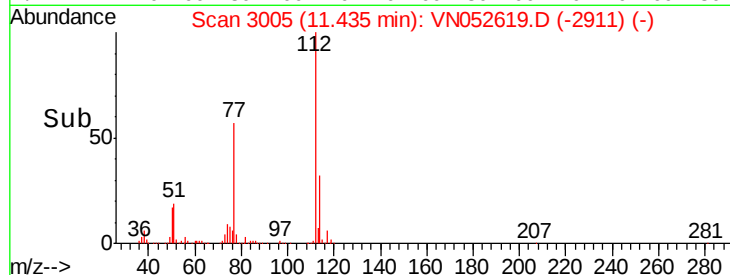
400000

200000

0

11.40 11.50

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 50.580 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

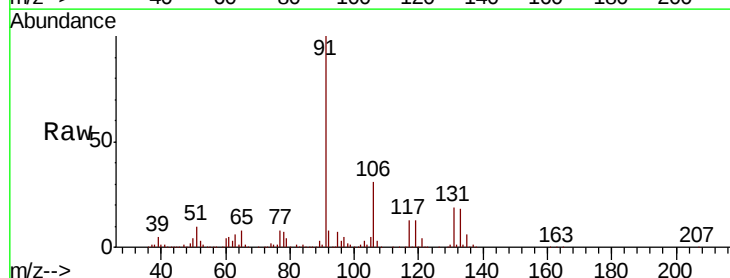
Tgt Ion:131 Resp: 519572

Ion Ratio Lower Upper

131 100

133 95.7 47.6 142.8

119 67.4 33.2 99.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

400000

300000

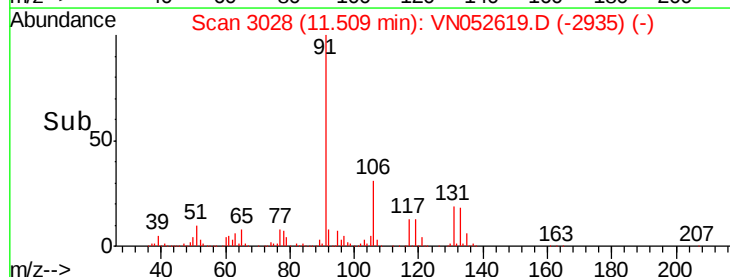
200000

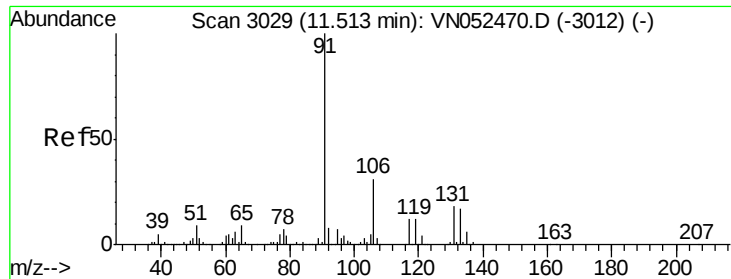
100000

0

11.50 11.60

Time-->





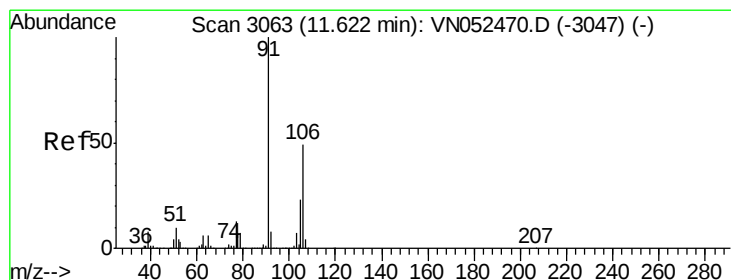
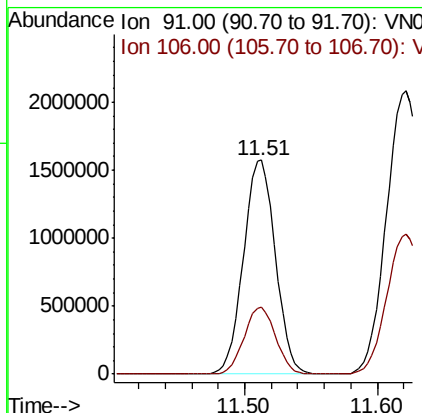
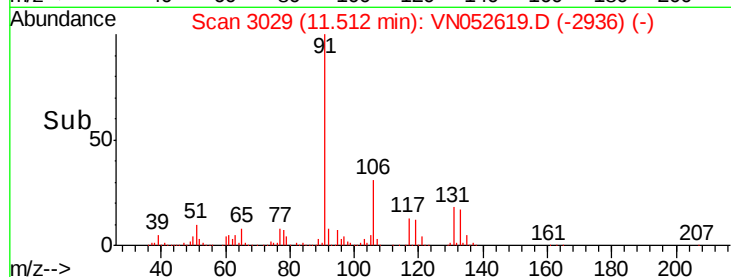
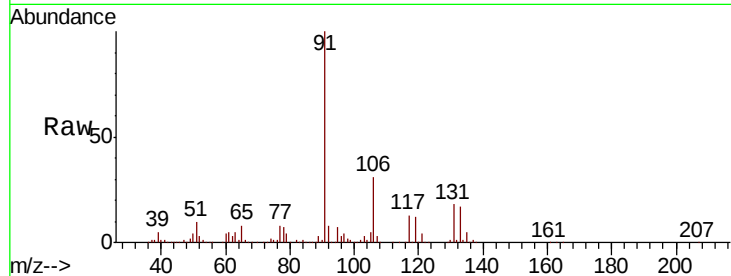
#67
Ethyl Benzene
Concen: 50.863 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 2631413
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

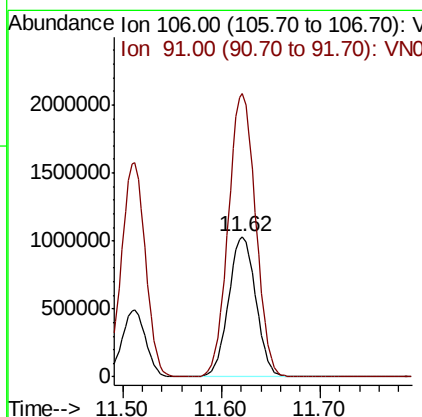
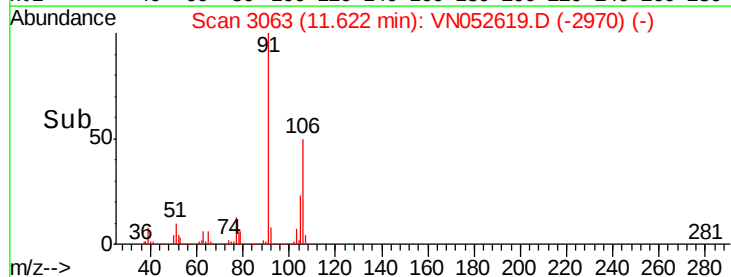
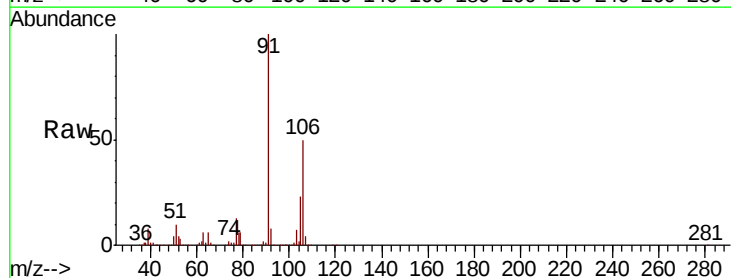
Manual Integrations
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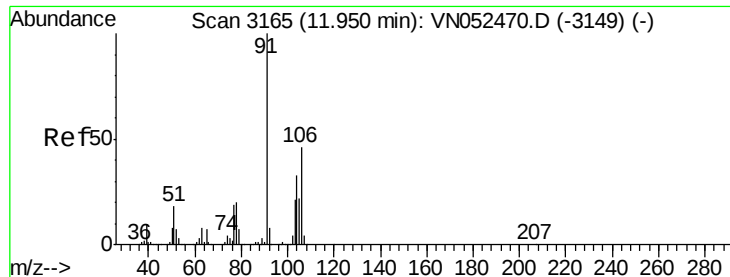
MMDadoda
12/4/2018 2:56:38 PM



#68
m/p-Xylenes
Concen: 103.198 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion: 106 Resp: 1987569
Ion Ratio Lower Upper
106 100
91 202.9 163.2 244.8





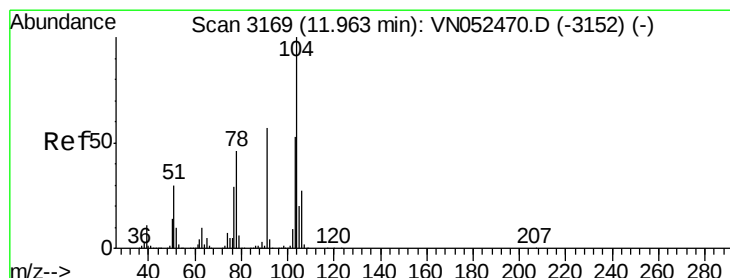
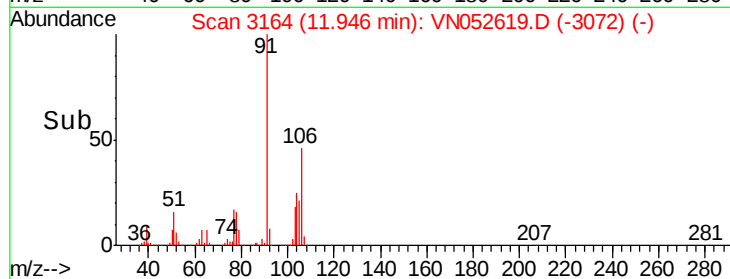
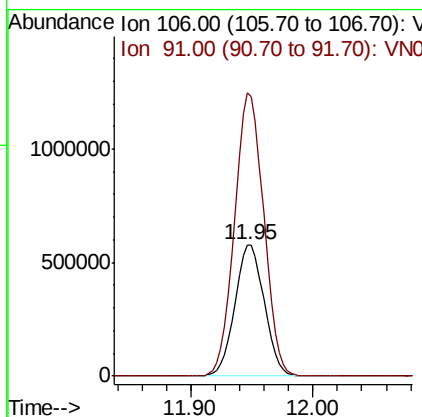
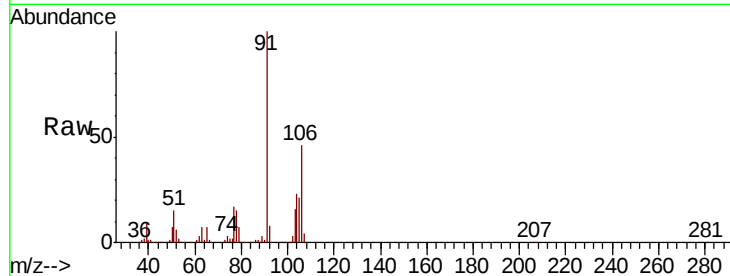
#69
o-Xylene
Concen: 51.457 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	215.0	107.7	323.1	

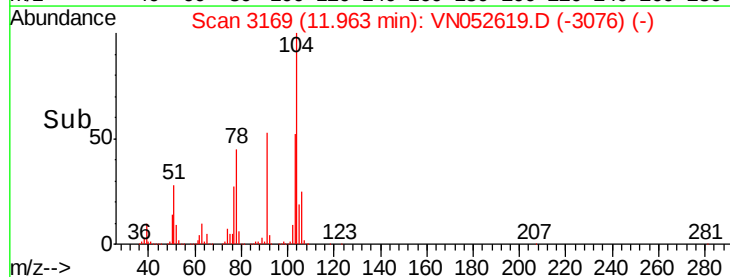
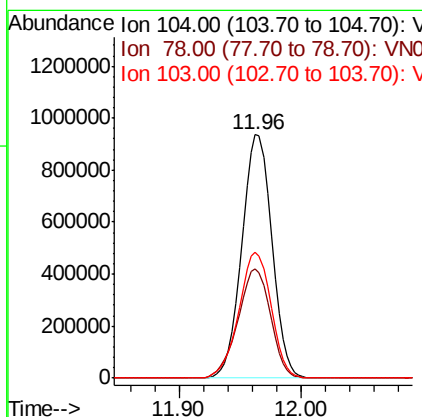
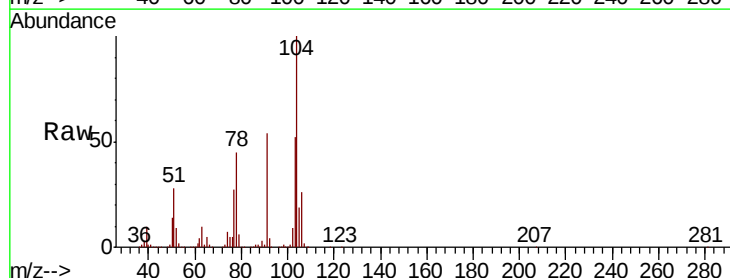
Manual Integrations
APPROVED

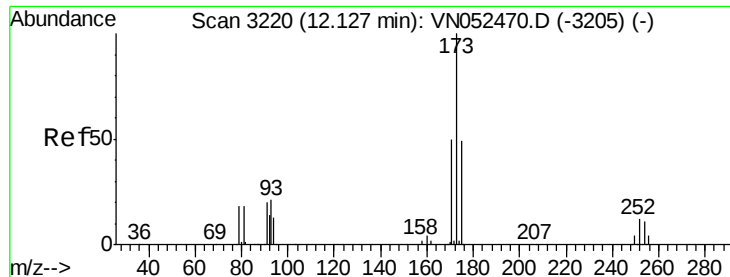
MMDadoda
12/4/2018 2:56:38 PM



#70
Styrene
Concen: 53.318 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	48.8	39.4	59.2	
103	55.7	44.9	67.3	





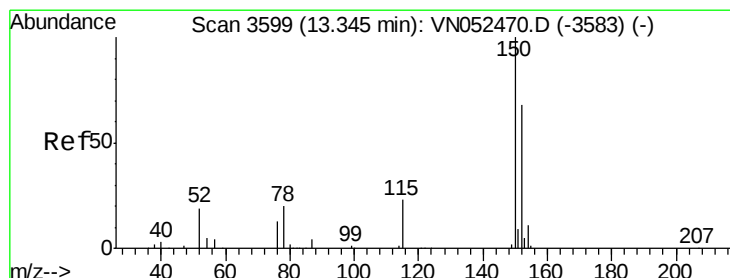
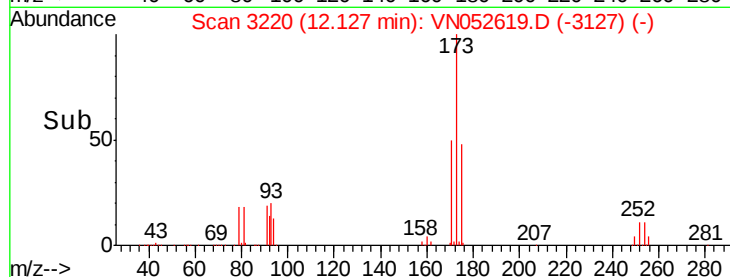
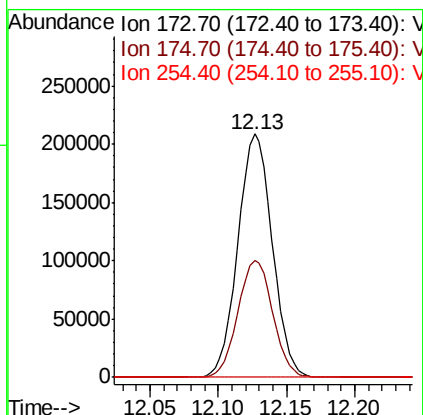
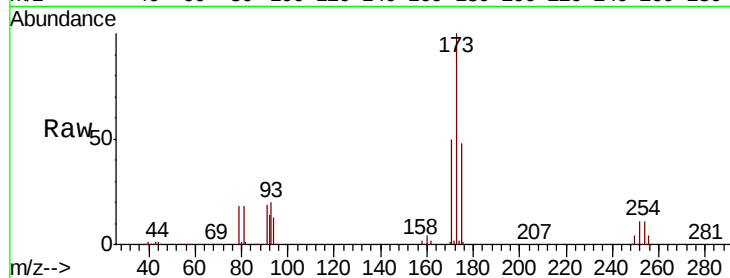
#71
Bromoform
Concen: 53.789 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.2
254	0.1	0.1	0.1#

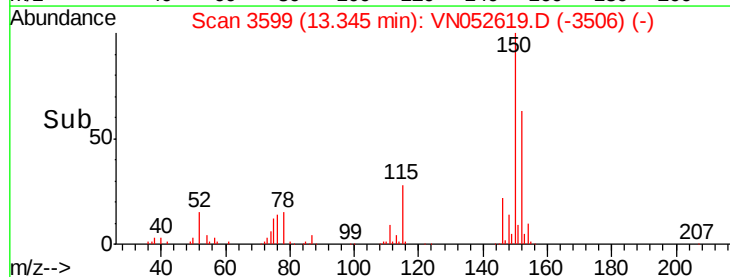
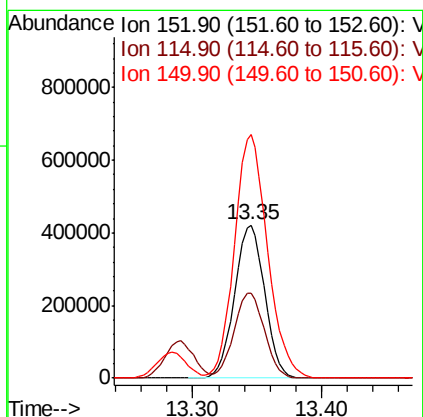
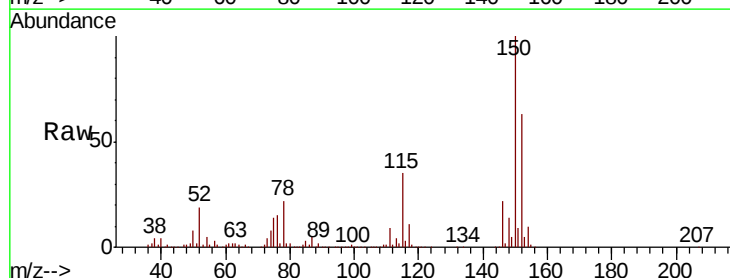
Manual Integrations
APPROVED

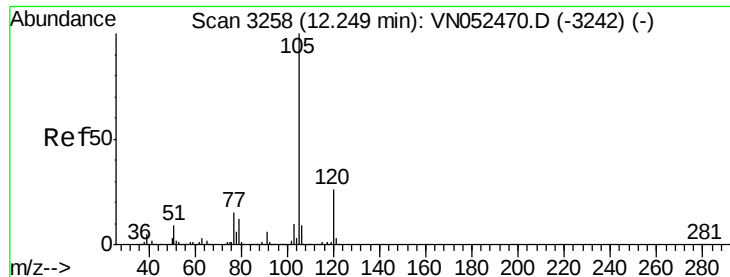
MMDadoda
12/4/2018 2:56:38 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.4	85.2
150	175.2	0.0	346.0





#73

Isopropylbenzene

Concen: 48.815 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2606524

Ion Ratio Lower Upper

105 100

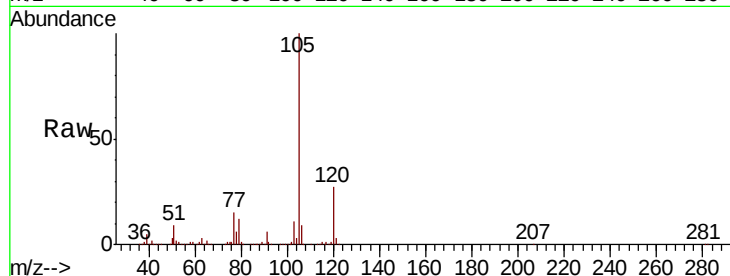
120 26.5 13.1 39.3

Manual Integrations

APPROVED

MMDadoda

12/4/2018 2:56:38 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

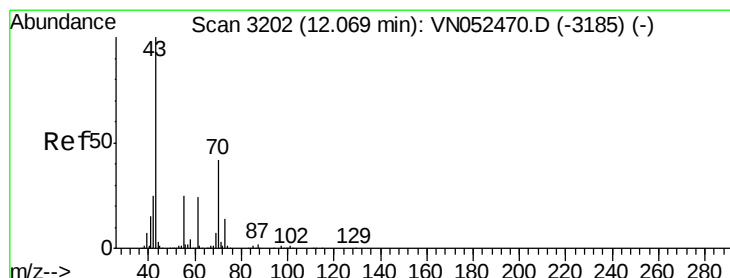
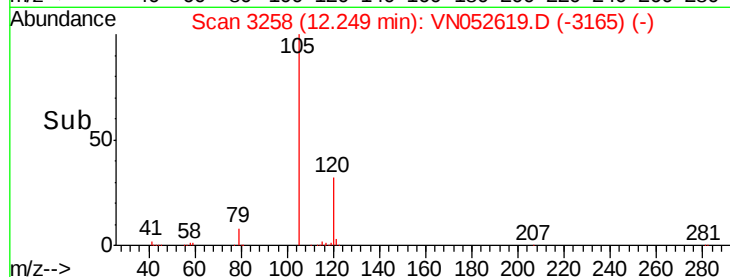
1500000

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 48.334 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion: 43 Resp: 652022

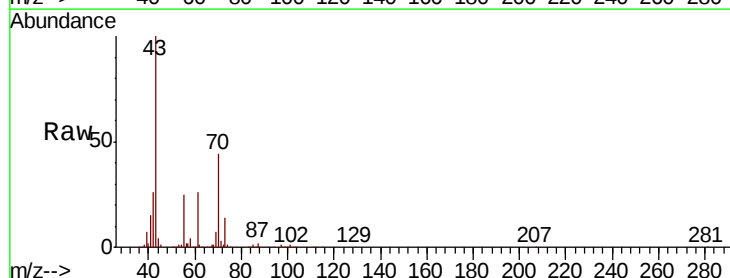
Ion Ratio Lower Upper

43 100

70 43.4 33.8 50.8

55 24.8 20.0 30.0

61 24.8 19.7 29.5



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

600000

500000

400000

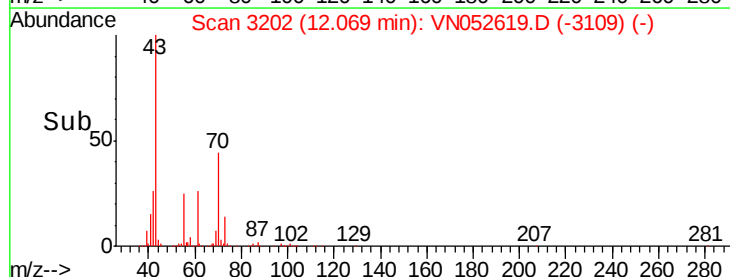
300000

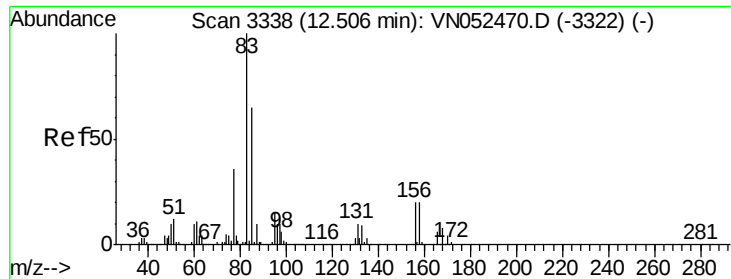
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 46.266 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

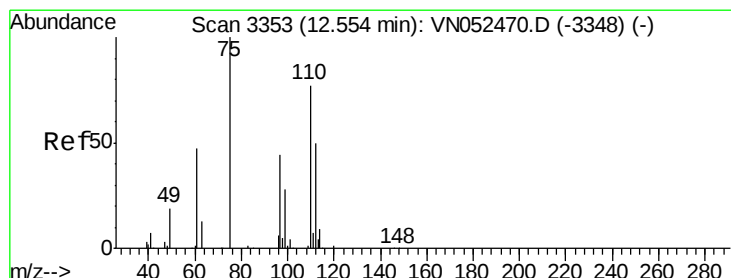
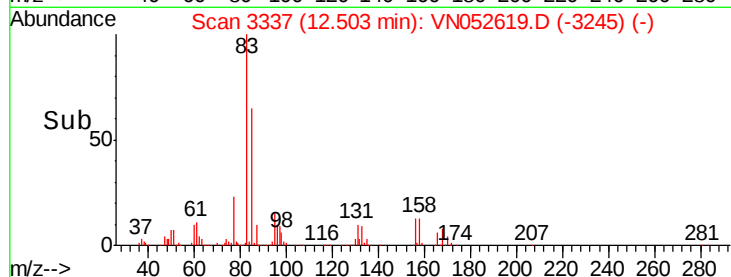
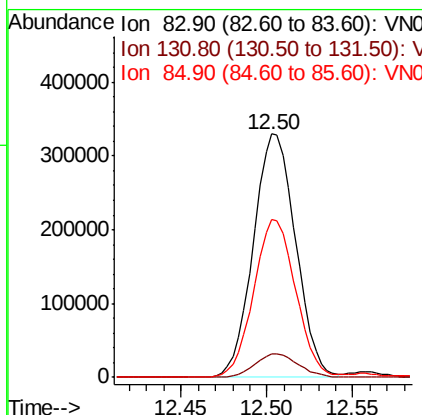
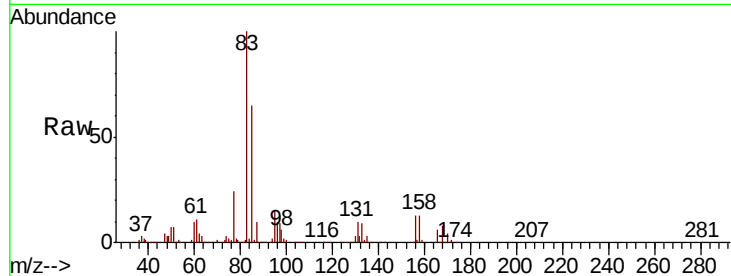
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	561969
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.0	15.0
85	64.4	31.9	95.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 45.054 ug/l m

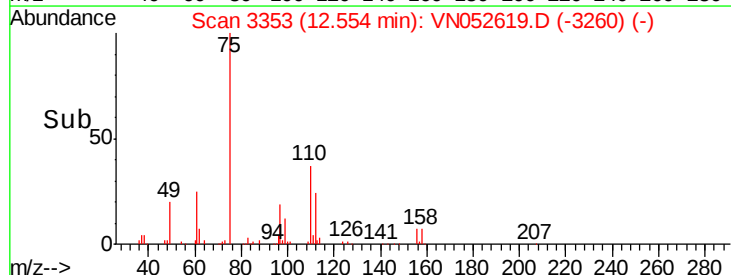
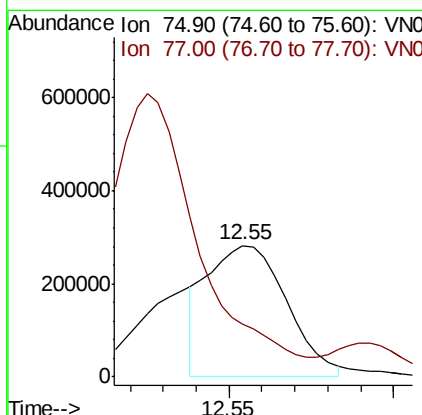
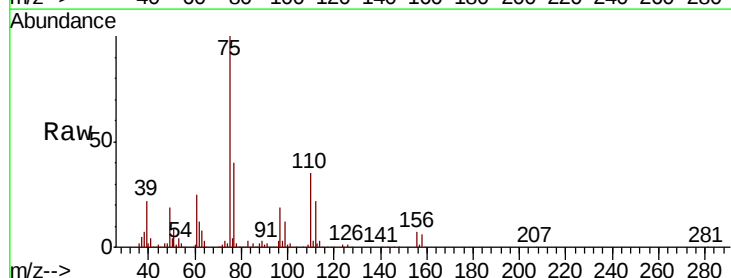
RT: 12.55 min Scan# 3353

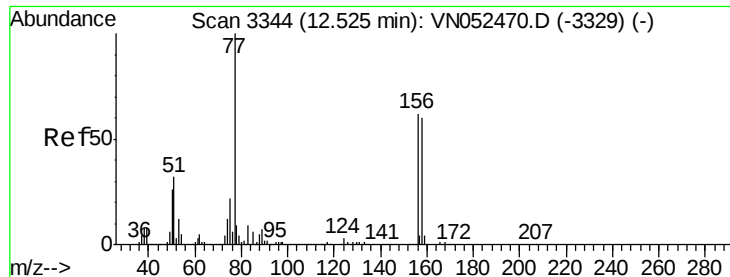
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	75	Resp:	472833
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 48.538 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

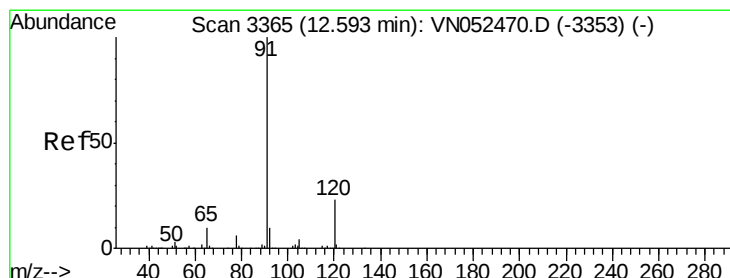
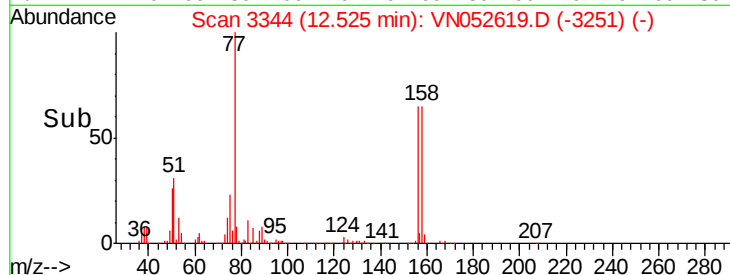
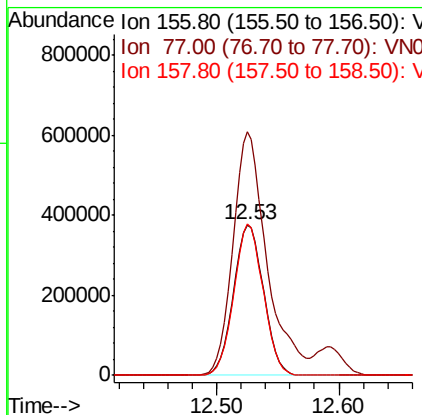
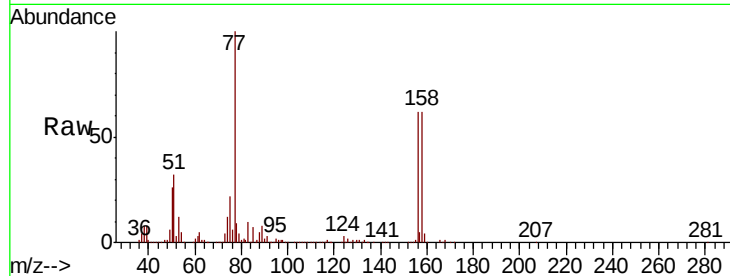
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	640607
Ion Ratio	Lower	Upper	
156	100		
77	182.6	93.5	280.4
158	98.3	48.3	144.9

Manual Integrations
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#78

n-propylbenzene

Concen: 50.081 ug/l

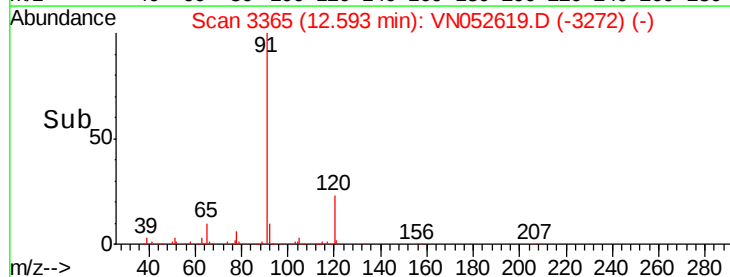
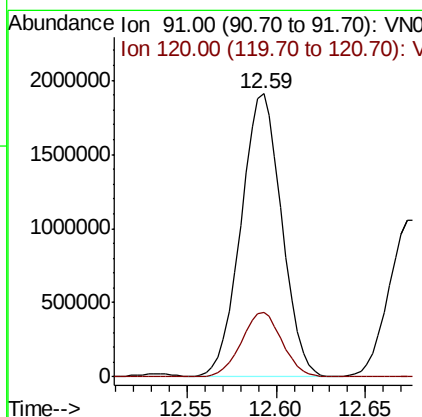
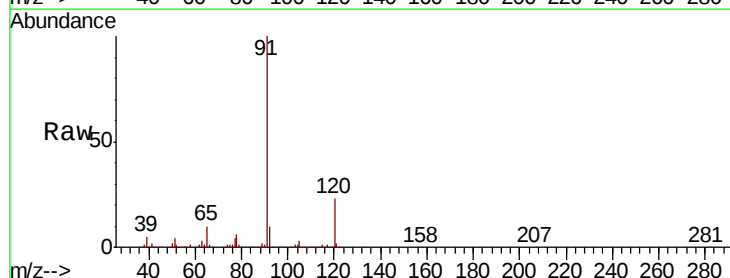
RT: 12.59 min Scan# 3365

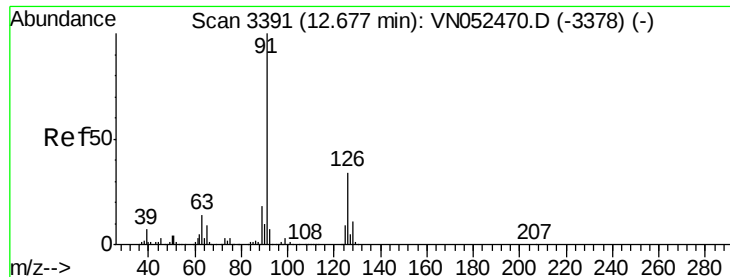
Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Tgt Ion:	91	Resp:	3037922
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.3	33.9





#79

2-Chlorotoluene

Concen: 48.438 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1749737

Ion Ratio Lower Upper

91 100

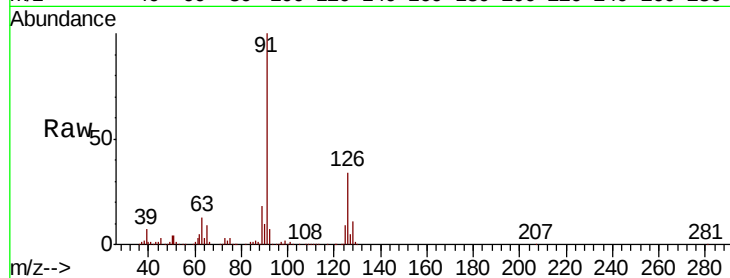
126 34.5 17.2 51.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052470.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052470.D (-3378) (-)

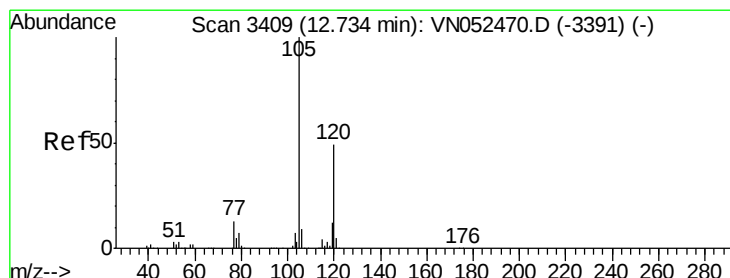
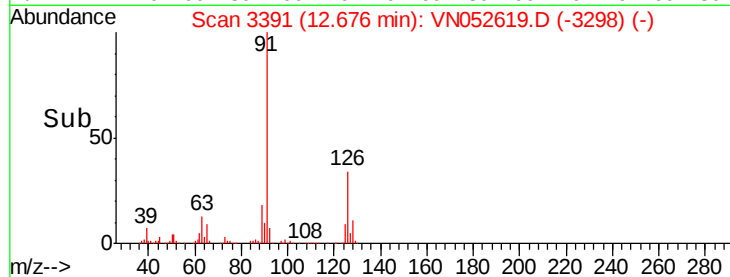
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 49.791 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052619.D

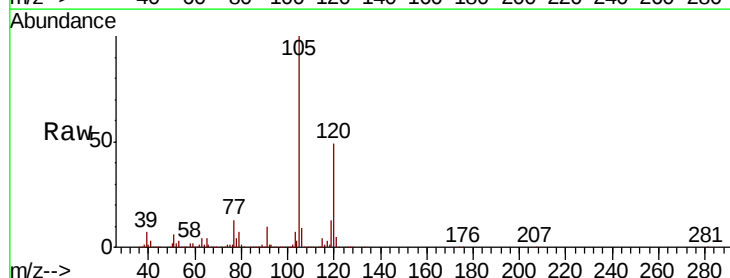
Acq: 3 Dec 2018 9:20

Tgt Ion: 105 Resp: 2120345

Ion Ratio Lower Upper

105 100

120 48.7 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)

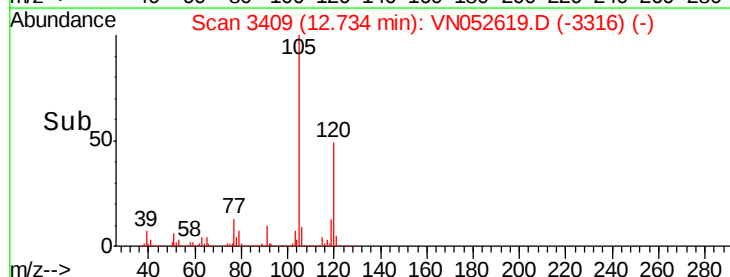
1500000

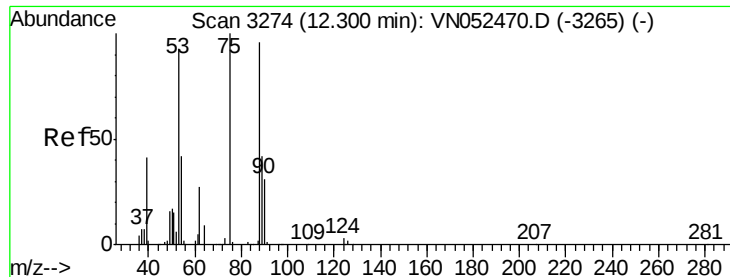
1000000

500000

0

Time--> 12.70 12.80





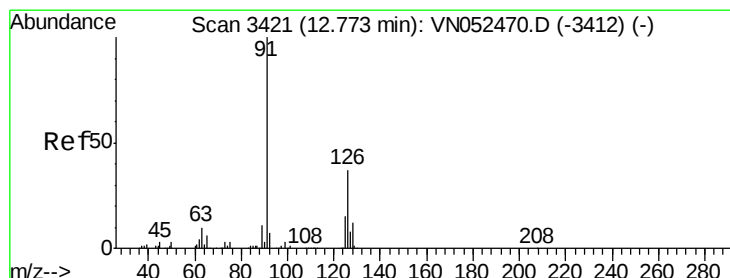
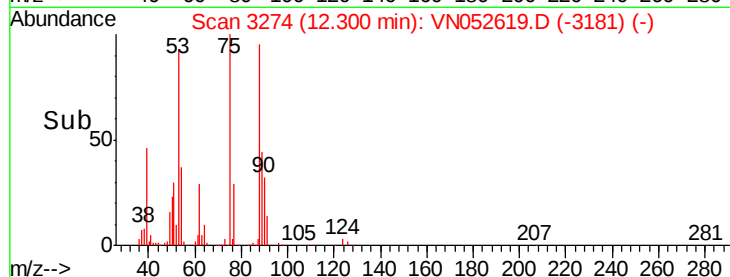
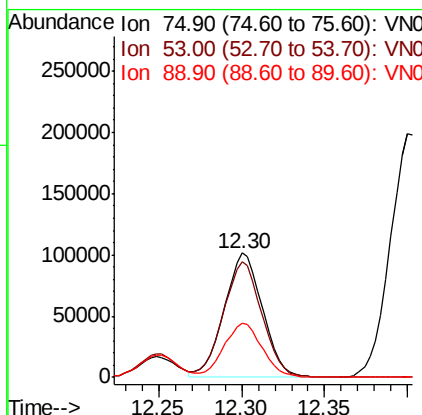
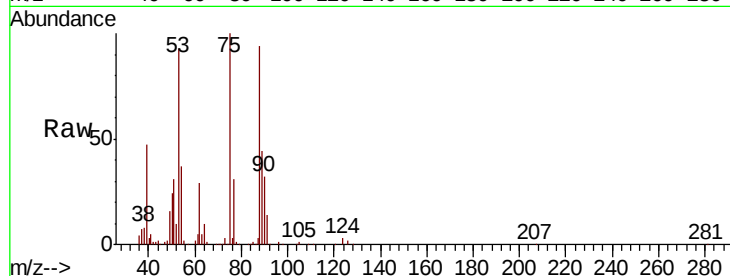
#81
trans-1,4-Dichloro-2-butene
Concen: 52.147 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.4	77.4	116.0
89	43.2	35.4	53.2

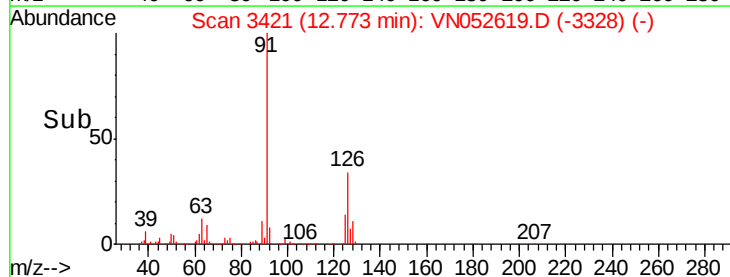
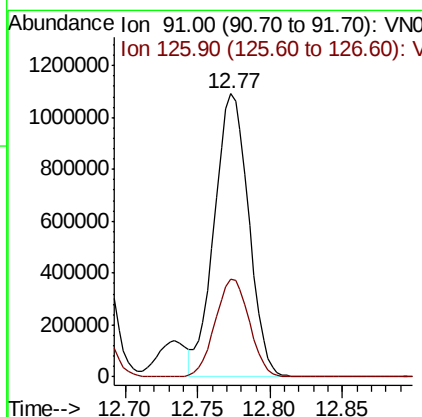
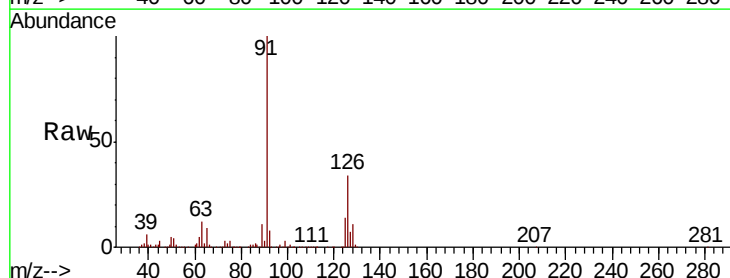
Manual Integrations
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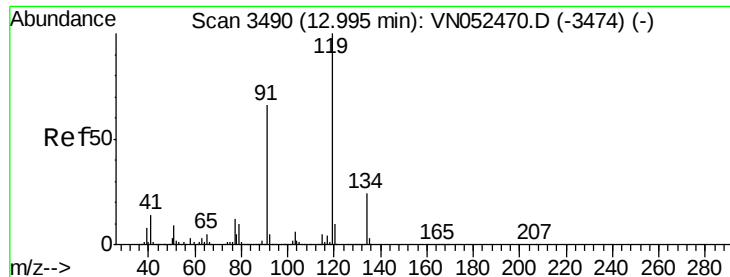
MMDadoda
12/4/2018 2:56:38 PM



#82
4-Chlorotoluene
Concen: 49.199 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.9	50.6





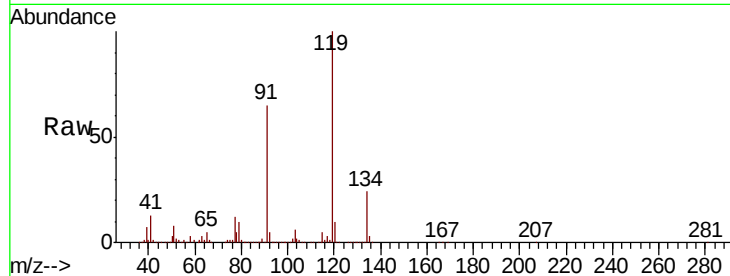
#83
 tert-Butylbenzene
 Concen: 49.217 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

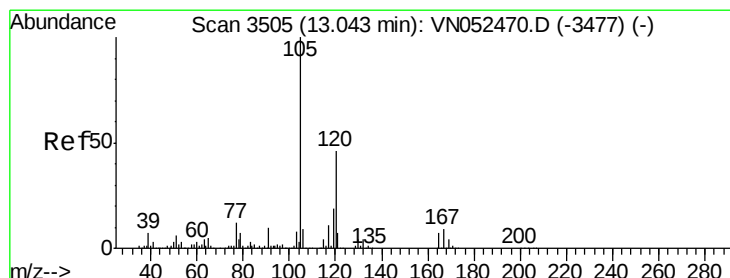
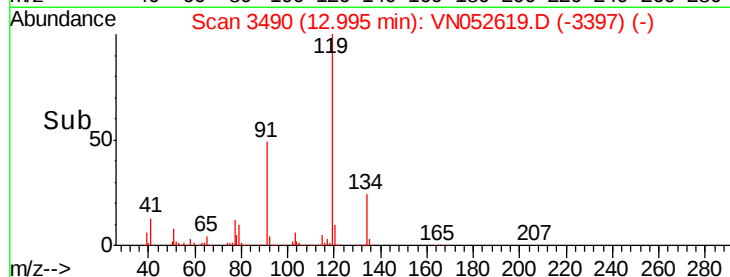
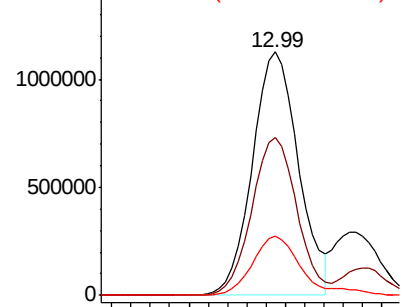
Tot Ion	Ratio	Lower	Upper
119	100		
91	63.6	32.3	96.9
134	25.9	13.0	38.9

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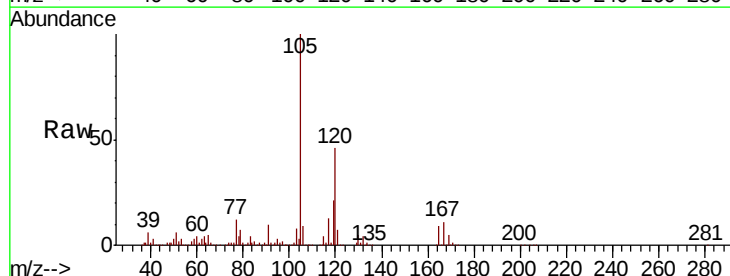


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

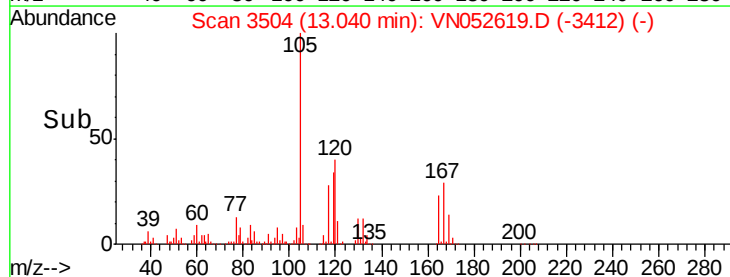
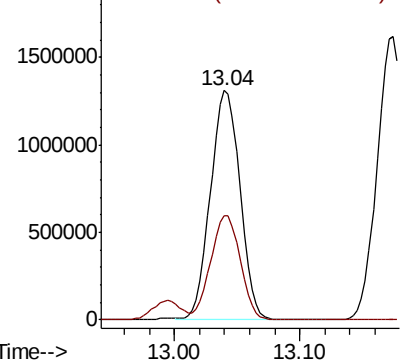


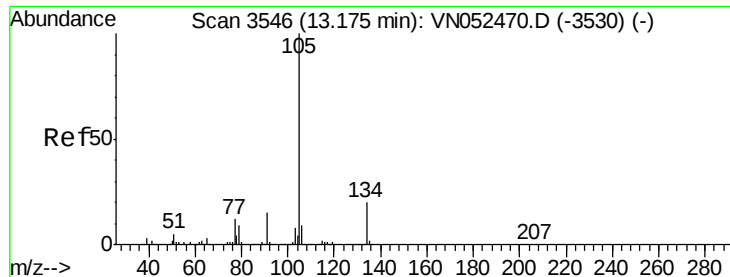
#84
 1,2,4-Trimethylbenzene
 Concen: 50.127 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.8	68.4



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.058 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2588442

Ion Ratio Lower Upper

105 100

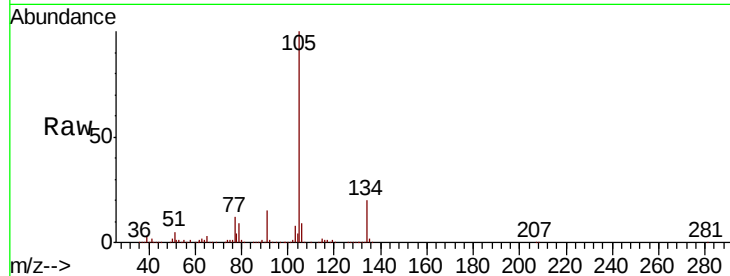
134 20.0 9.9 29.7

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

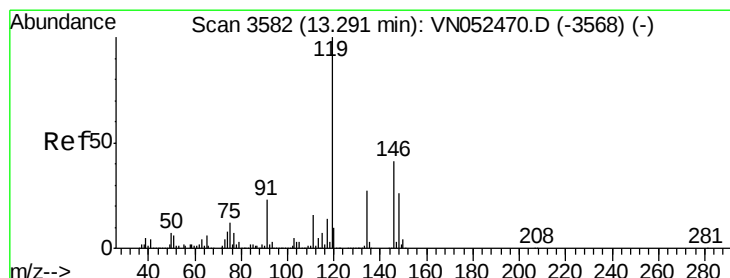
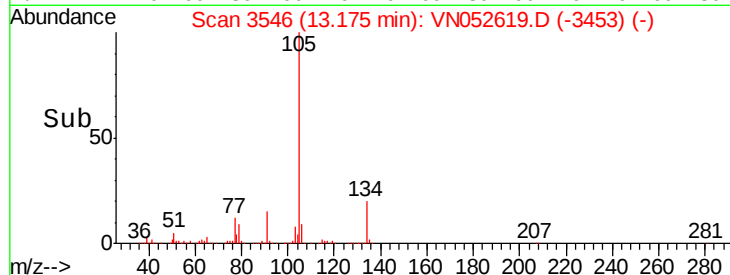
1500000

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 51.096 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

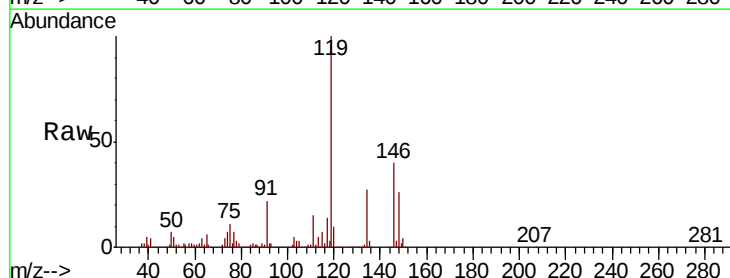
Tgt Ion:119 Resp: 2250407

Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.2

91 22.3 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

2000000

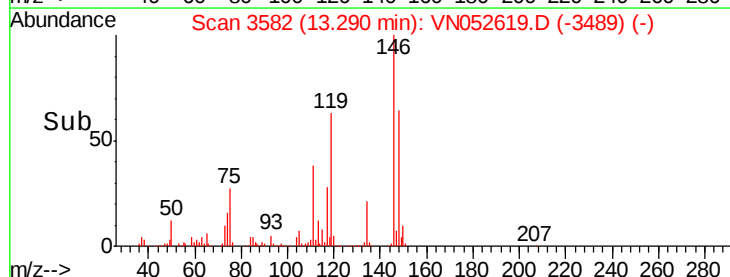
1500000

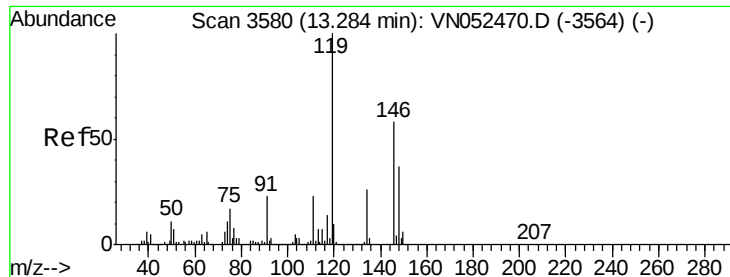
1000000

500000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 50.432 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 1164279

Ion Ratio Lower Upper

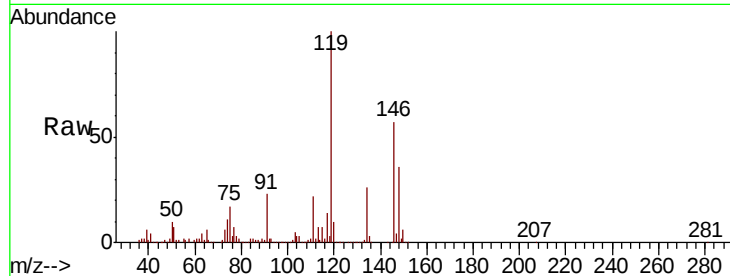
146 100

111 38.2 19.4 58.4

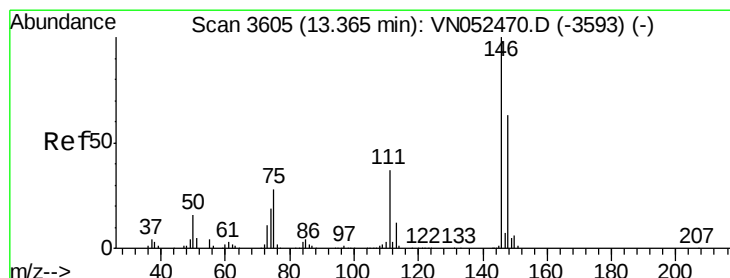
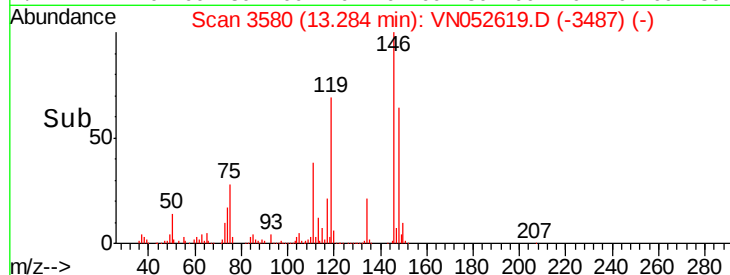
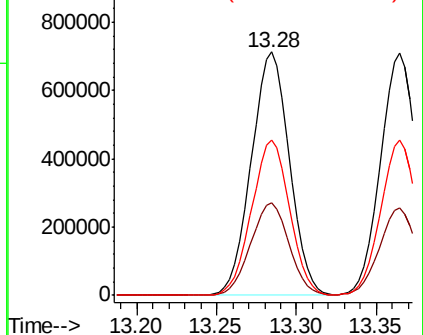
148 63.7 31.8 95.4

Manual Integrations
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12/4/2018 2:56:38 PM



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



#88

1,4-Dichlorobenzene

Concen: 50.252 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN052619.D

Acq: 3 Dec 2018 9:20

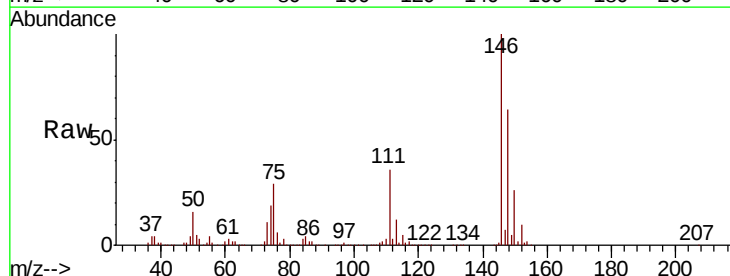
Tgt Ion:146 Resp: 1142716

Ion Ratio Lower Upper

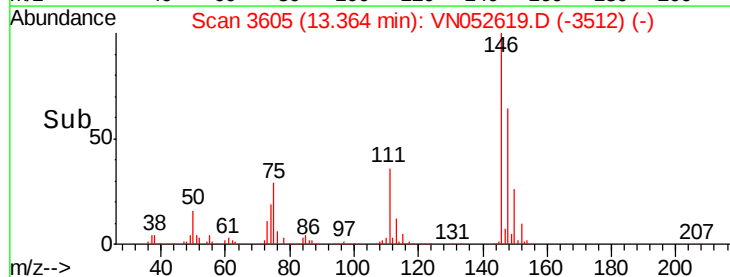
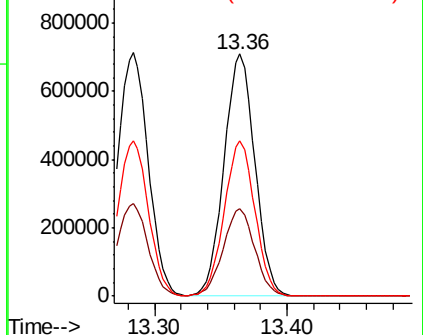
146 100

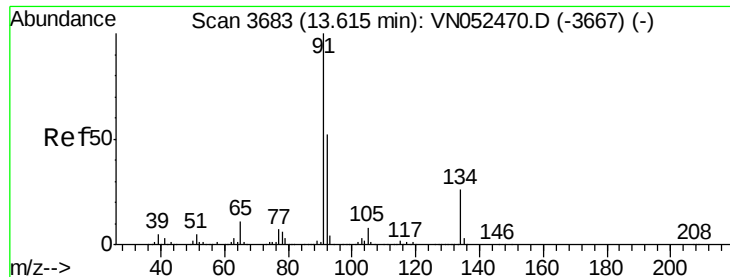
111 37.0 18.6 56.0

148 63.8 31.9 95.9



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





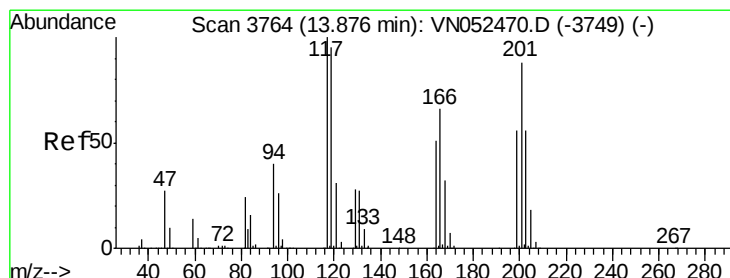
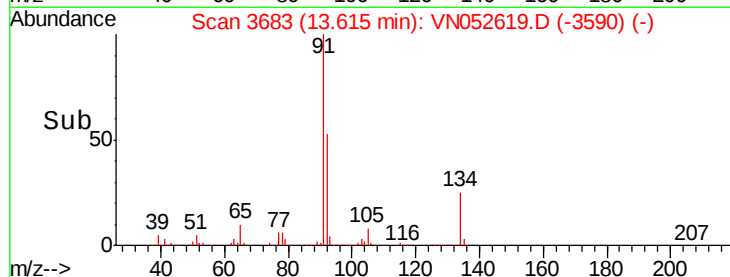
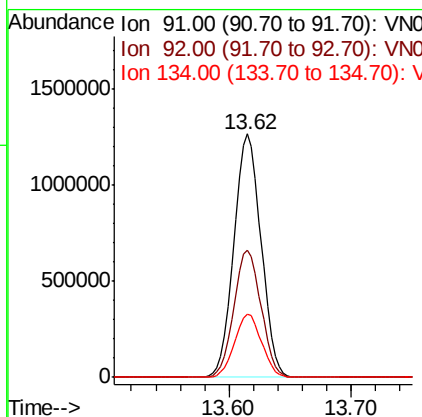
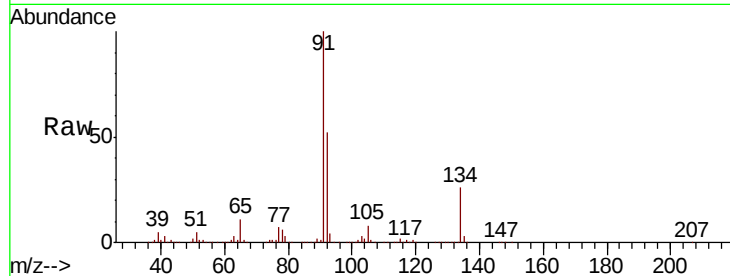
#89
n-Butylbenzene
Concen: 53.226 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1949556
Ion Ratio Lower Upper
91 100
92 52.4 26.1 78.3
134 26.0 13.0 38.9

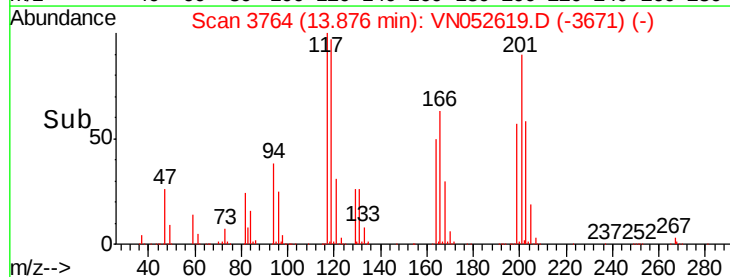
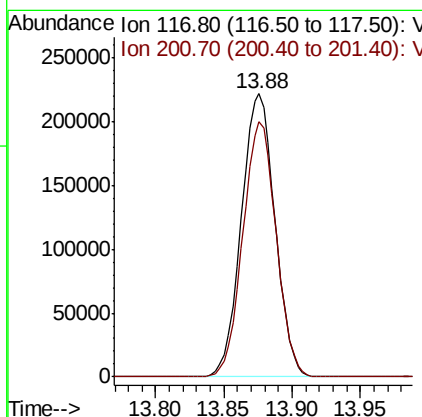
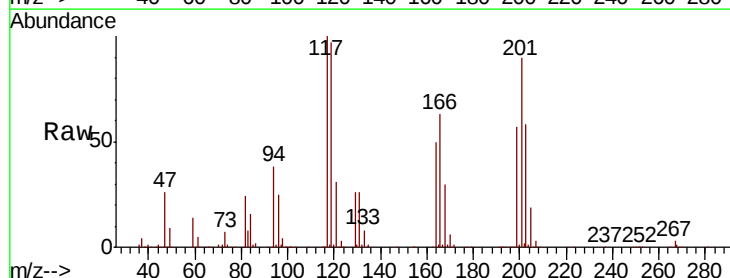
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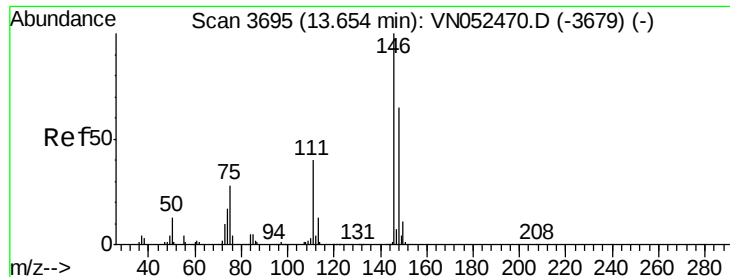
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#90
Hexachloroethane
Concen: 50.826 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion: 117 Resp: 379030
Ion Ratio Lower Upper
117 100
201 89.2 43.6 130.9





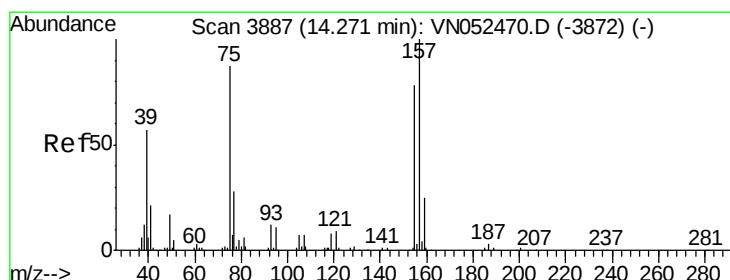
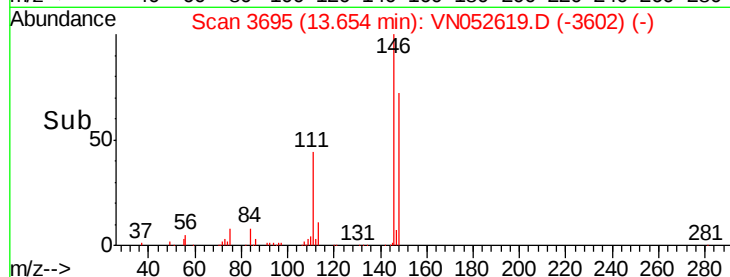
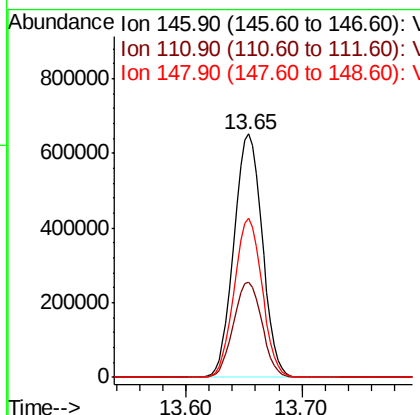
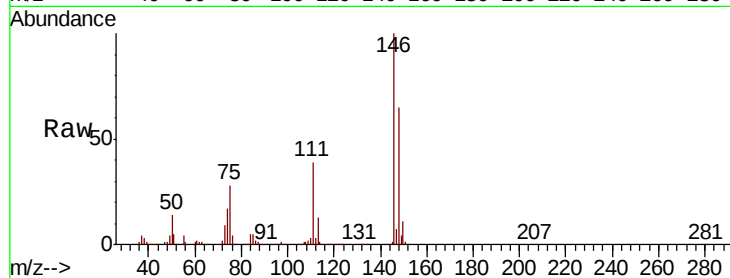
#91
 1,2-Dichlorobenzene
 Concen: 49.862 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.0	60.0
148	64.4	32.0	96.2

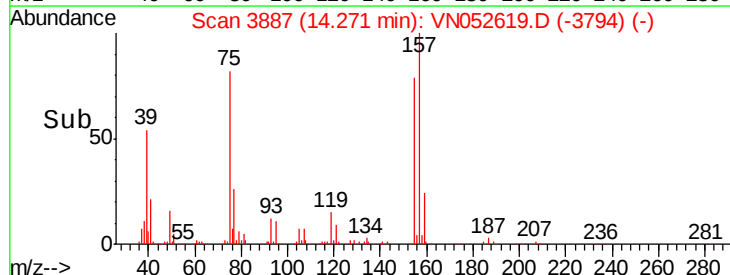
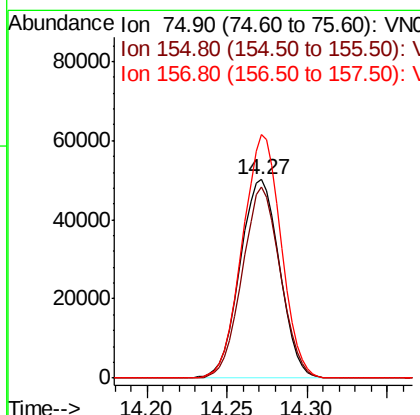
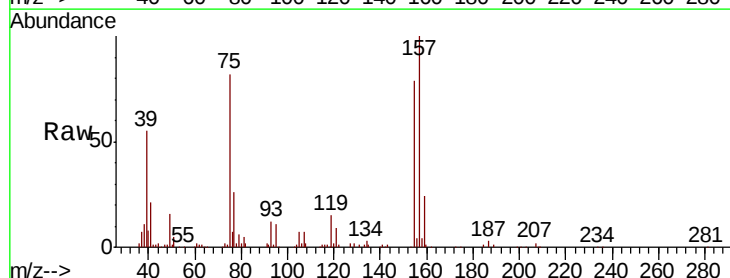
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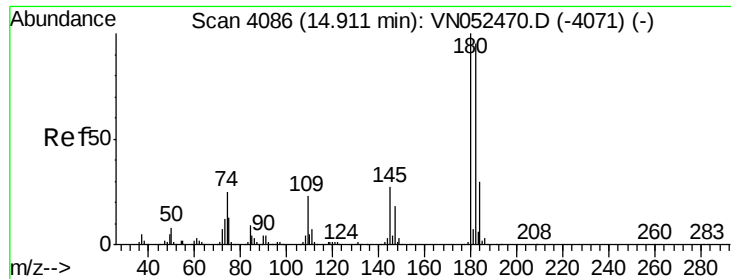
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.930 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.5	45.3	135.9
157	119.8	58.1	174.2





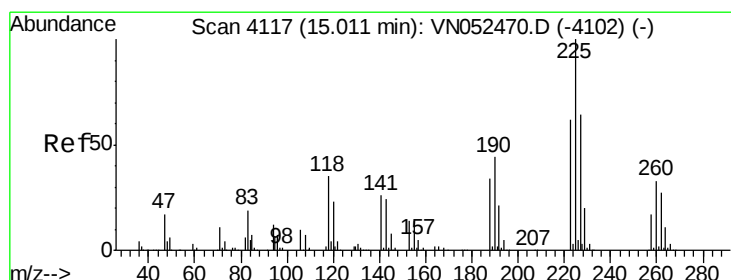
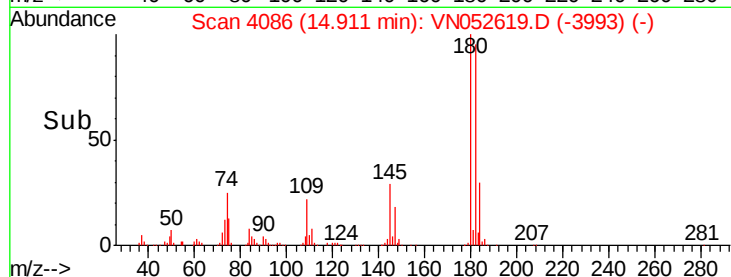
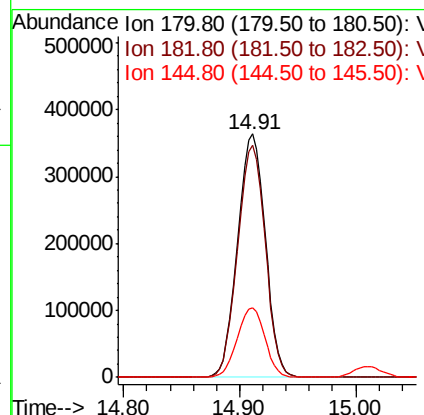
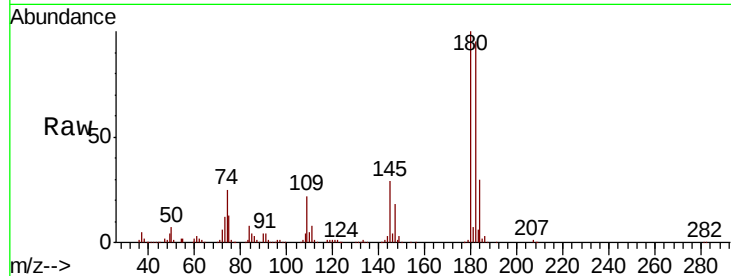
#93
 1,2,4-Trichlorobenzene
 Concen: 49.589 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	598871		
182	95.3	47.8	143.4	
145	28.6	14.1	42.3	

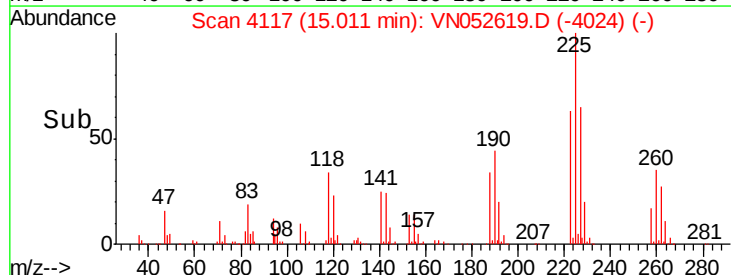
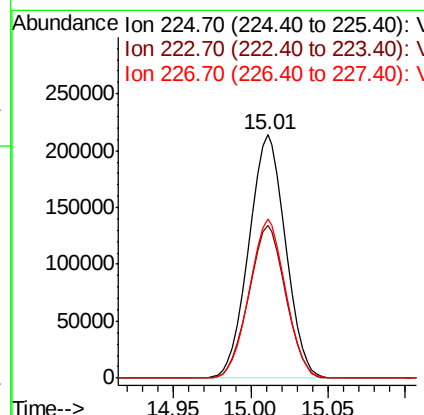
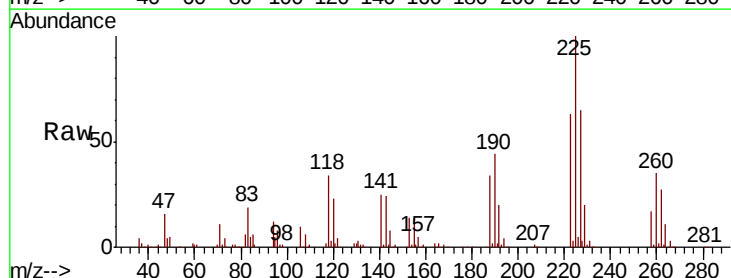
Manual Integrations
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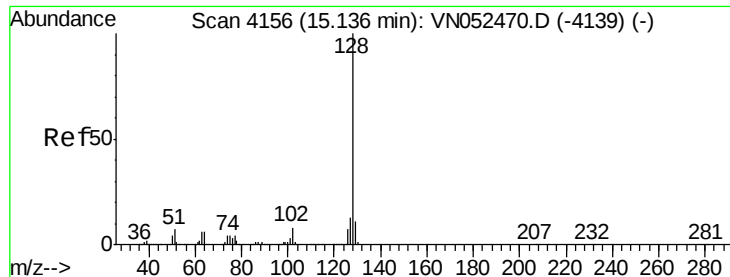
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#94
 Hexachlorobutadiene
 Concen: 49.866 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052619.D
 Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	353833		
223	62.8	31.4	94.2	
227	64.5	32.5	97.4	





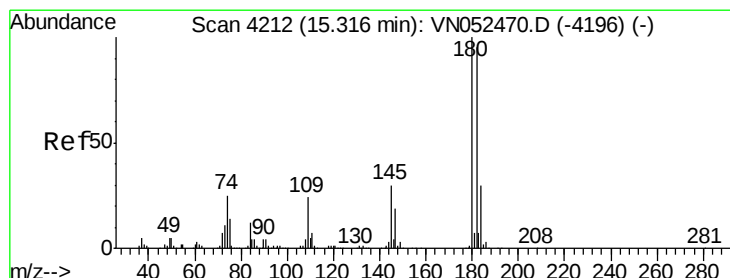
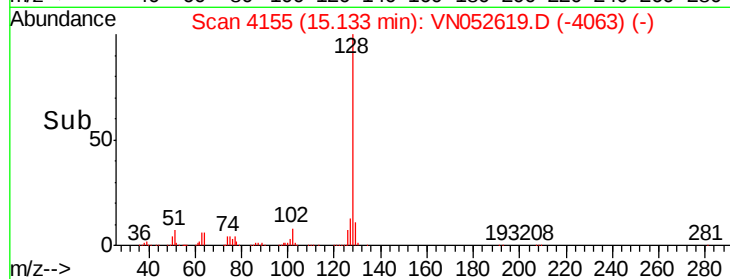
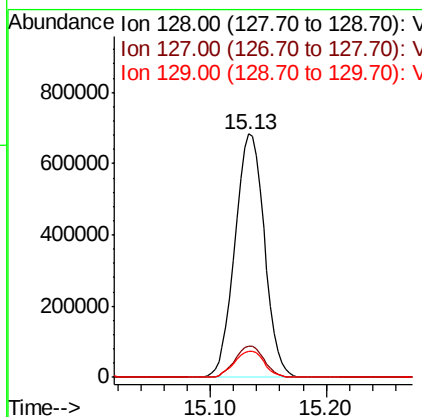
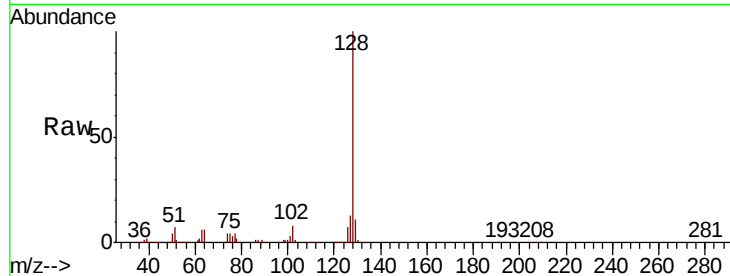
#95
Naphthalene
Concen: 47.053 ug/l
RT: 15.13 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.7	13.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 48.894 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052619.D
Acq: 3 Dec 2018 9:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.8	143.3
145	30.0	15.2	45.5

