

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052826.D
 Acq On : 12 Dec 2018 14:45
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 1:36:07 PM

Quant Time: Dec 13 00:44:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 00:28:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	982056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1515996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1350161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	618777	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	207867	19.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	39.82%	
35) Dibromofluoromethane	7.59	113	162916	19.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	38.50%	
50) Toluene-d8	10.09	98	731472	19.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	39.88%	
62) 4-Bromofluorobenzene	12.40	95	243443	19.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	39.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	209316	20.705	ug/l	99
3) Chloromethane	2.06	50	247406	20.391	ug/l	99
4) Vinyl Chloride	2.19	62	250286	20.619	ug/l	99
5) Bromomethane	2.58	94	146846	19.614	ug/l	99
6) Chloroethane	2.71	64	146324	20.394	ug/l	99
7) Trichlorofluoromethane	3.02	101	307170	20.411	ug/l	98
8) Diethyl Ether	3.42	74	113449	20.666	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	191043	20.483	ug/l	98
10) Methyl Iodide	3.96	142	250938	19.211	ug/l	99
11) Tert butyl alcohol	4.78	59	55173	94.562	ug/l	98
12) 1,1-Dichloroethene	3.74	96	182933	20.261	ug/l	99
13) Acrolein	3.61	56	54747	99.662	ug/l	99
14) Allyl chloride	4.33	41	303024	20.547	ug/l	93
15) Acrylonitrile	4.99	53	337075	102.979	ug/l	98
16) Acetone	3.82	43	242299	103.316	ug/l	98
17) Carbon Disulfide	4.06	76	543206	19.584	ug/l	99
18) Methyl Acetate	4.33	43	170499	19.809	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	499328	20.371	ug/l	99
20) Methylene Chloride	4.55	84	213517	20.231	ug/l	100
21) trans-1,2-Dichloroethene	5.05	96	194639	19.898	ug/l	97
22) Diisopropyl ether	5.95	45	645102	20.504	ug/l	97
23) Vinyl Acetate	5.90	43	1911425	102.101	ug/l	99
24) 1,1-Dichloroethane	5.85	63	370409	20.416	ug/l	98
25) 2-Butanone	6.84	43	365087	100.328	ug/l	100
26) 2,2-Dichloropropane	6.83	77	266349	19.935	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	222590	20.049	ug/l	99
28) Bromochloromethane	7.19	49	160874	19.746	ug/l	98
29) Tetrahydrofuran	7.21	42	253810	102.168	ug/l	99
30) Chloroform	7.37	83	359189	20.302	ug/l	99
31) Cyclohexane	7.66	56	357685	17.682	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	302380	20.427	ug/l	99
36) 1,1-Dichloropropene	7.80	75	283679	20.320	ug/l	99
37) Ethyl Acetate	6.93	43	170299	20.306	ug/l	100
38) Carbon Tetrachloride	7.78	117	261345	20.338	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	339975	19.845	ug/l	99
40) Benzene	8.04	78	856050	20.431	ug/l	98
41) Methacrylonitrile	7.17	41	95807	20.618	ug/l	94
42) 1,2-Dichloroethane	8.13	62	256622	20.344	ug/l	98
43) Isopropyl Acetate	8.17	43	321822	18.716	ug/l	99
44) Trichloroethene	8.84	130	229110	20.244	ug/l	99
45) 1,2-Dichloropropane	9.12	63	224702	20.475	ug/l	100
46) Dibromomethane	9.21	93	128522	20.193	ug/l	99
47) Bromodichloromethane	9.40	83	267409	20.261	ug/l	99
48) Methyl methacrylate	9.20	41	154361	20.471	ug/l	100
49) 1,4-Dioxane	9.20	88	34681	405.191	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	815503	103.432	ug/l	100
52) Toluene	10.16	92	520649	20.516	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	265329	19.978	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	318463	20.122	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	184075	20.320	ug/l	99
56) Ethyl methacrylate	10.43	69	235319	20.241	ug/l	99
57) 1,3-Dichloropropane	10.71	76	315783	20.328	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	659276	101.632	ug/l	100
59) 2-Hexanone	10.75	43	559650	103.575	ug/l	99
60) Dibromochloromethane	10.90	129	198211	20.245	ug/l	99
61) 1,2-Dibromoethane	11.01	107	181966	20.321	ug/l	100
64) Tetrachloroethene	10.63	164	240793	20.750	ug/l	99
65) Chlorobenzene	11.44	112	567539	20.261	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	192911	19.802	ug/l	98
67) Ethyl Benzene	11.51	91	981878	20.412	ug/l	100
68) m/p-Xylenes	11.62	106	742180	41.090	ug/l	100
69) o-Xylene	11.95	106	359926	20.407	ug/l	99
70) Styrene	11.96	104	581543	20.511	ug/l	99
71) Bromoform	12.13	173	131718	19.902	ug/l	99
73) Isopropylbenzene	12.25	105	952225	20.611	ug/l	100
74) N-amyl acetate	12.07	43	253656	19.998	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	208913	20.177	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	184800m	17.906	ug/l	
77) Bromobenzene	12.53	156	240982	20.508	ug/l	99
78) n-propylbenzene	12.59	91	1086460	20.620	ug/l	100
79) 2-Chlorotoluene	12.67	91	646276	20.747	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	781312	20.949	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	55292	19.456	ug/l	98
82) 4-Chlorotoluene	12.77	91	650298	20.418	ug/l	99
83) tert-Butylbenzene	12.99	119	679141	20.643	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	787484	20.857	ug/l	100
85) sec-Butylbenzene	13.17	105	921417	20.681	ug/l	100
86) p-Isopropyltoluene	13.29	119	794946	20.594	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	422152	20.216	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	415004	20.068	ug/l	99
89) n-Butylbenzene	13.62	91	655871	20.183	ug/l	99
90) Hexachloroethane	13.88	117	126007	19.495	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	408170	20.320	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31838	20.399	ug/l	98

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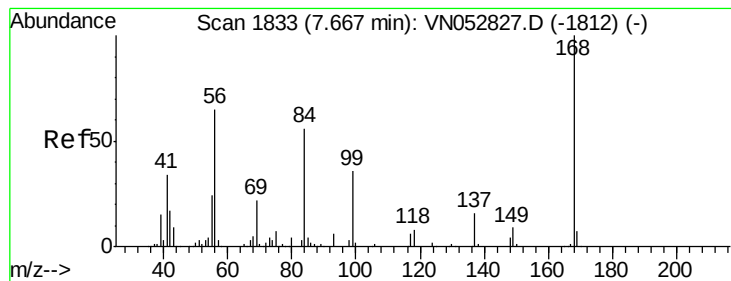
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	216099	19.791	ug/l	100
94) Hexachlorobutadiene	15.01	225	126900	20.079	ug/l	99
95) Naphthalene	15.13	128	449727	19.886	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	200761	20.038	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 982056

Ion Ratio Lower Upper

168 100

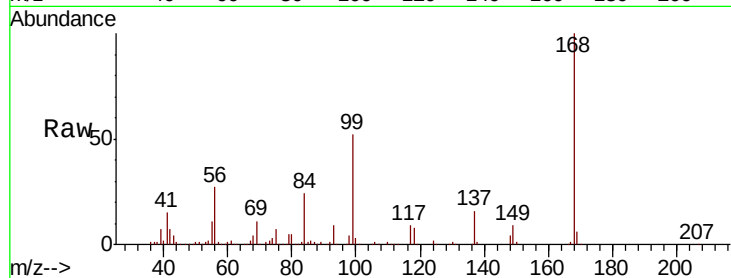
99 51.5 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

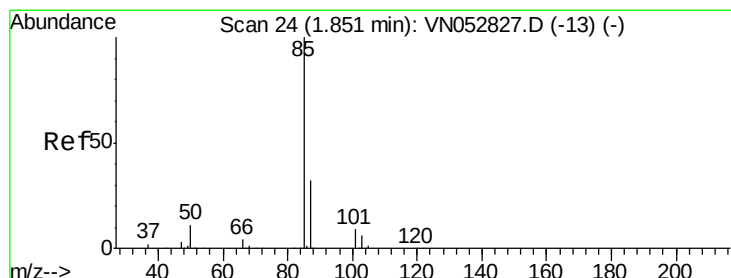
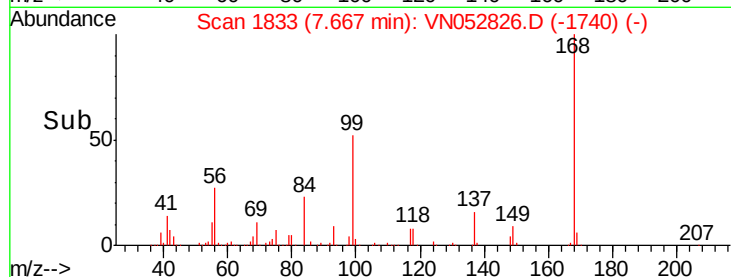
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.705 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052826.D

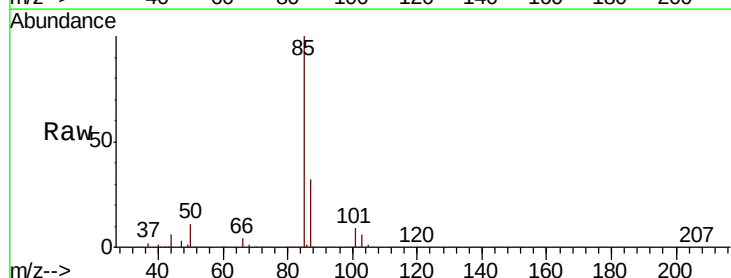
Acq: 12 Dec 2018 14:45

Tgt Ion: 85 Resp: 209316

Ion Ratio Lower Upper

85 100

87 32.2 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150000

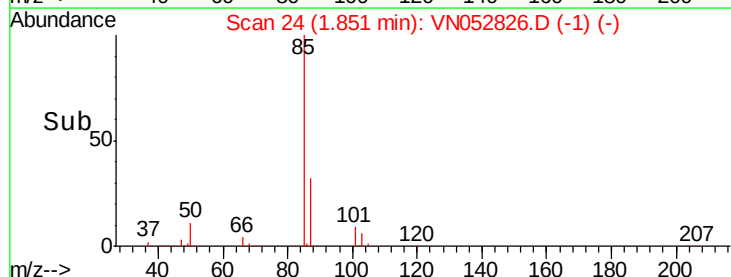
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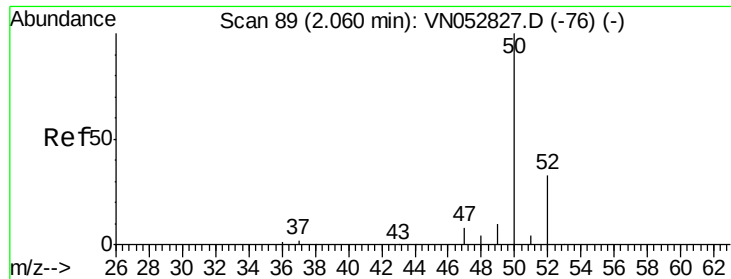
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.391 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 247406

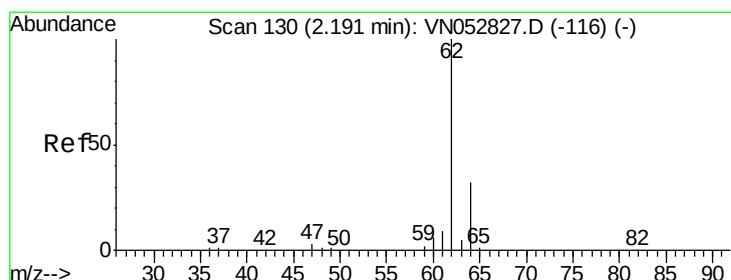
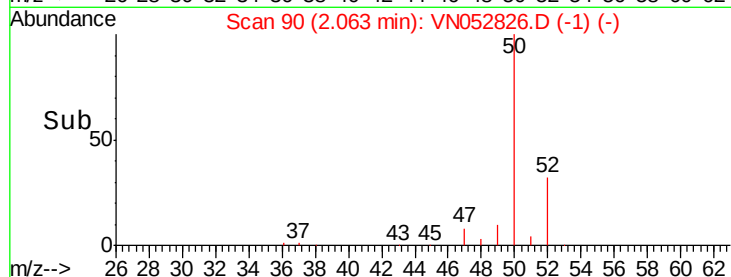
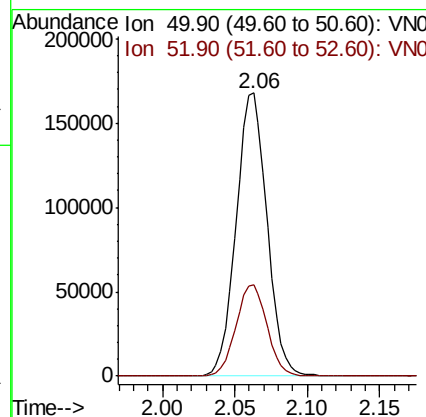
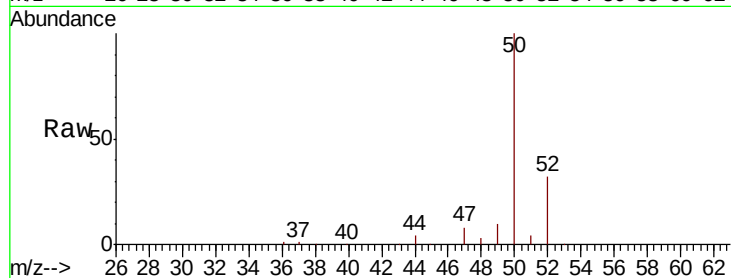
Ion Ratio Lower Upper

50 100

52 32.2 26.2 39.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 20.619 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052826.D

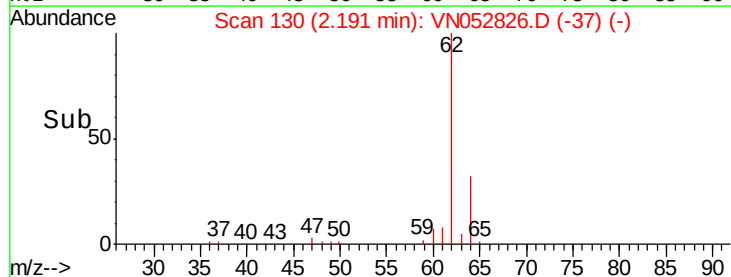
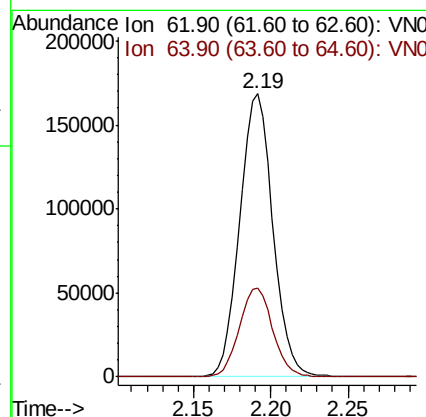
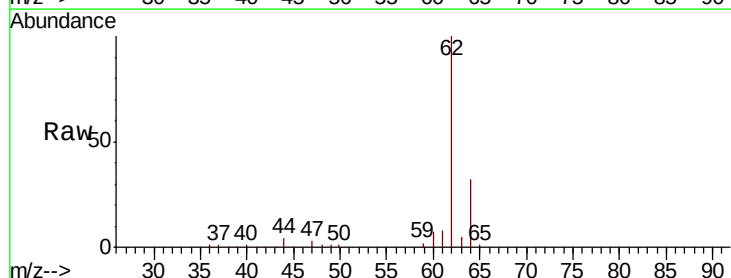
Acq: 12 Dec 2018 14:45

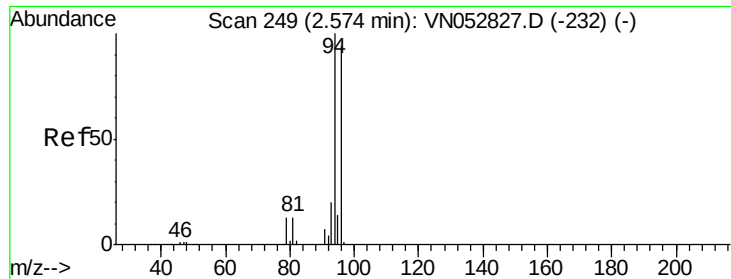
Tgt Ion: 62 Resp: 250286

Ion Ratio Lower Upper

62 100

64 31.5 25.5 38.3





#5

Bromomethane

Concen: 19.614 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 146846

Ion Ratio Lower Upper

94 100

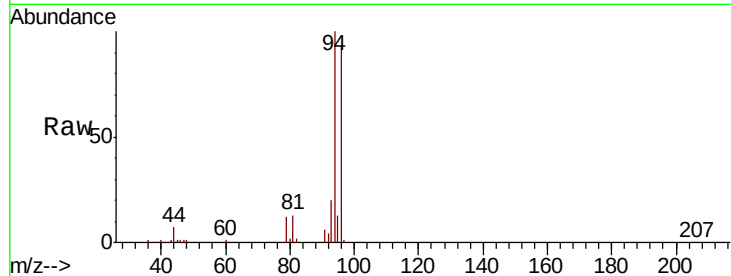
96 92.6 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN052827.D (-232) (-)

Ion 95.90 (95.60 to 96.60): VN052827.D (-232) (-)

2.58

80000

60000

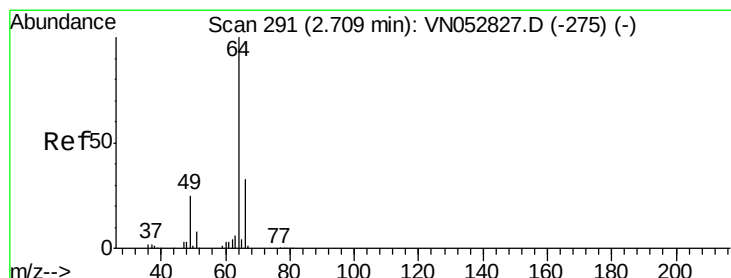
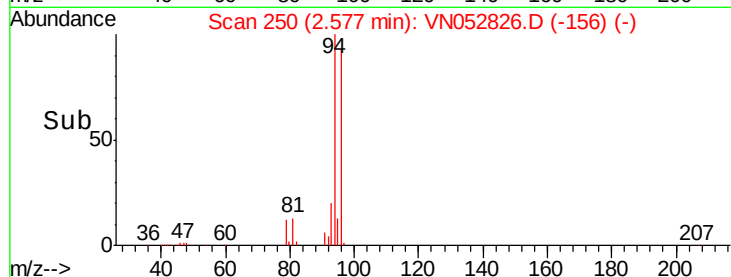
40000

20000

0

2.50 2.60 2.70

Time-->



#6

Chloroethane

Concen: 20.394 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052826.D

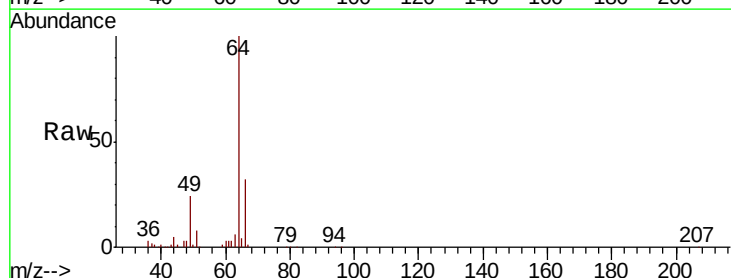
Acq: 12 Dec 2018 14:45

Tgt Ion: 64 Resp: 146324

Ion Ratio Lower Upper

64 100

66 32.1 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN052827.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN052827.D (-275) (-)

2.71

80000

60000

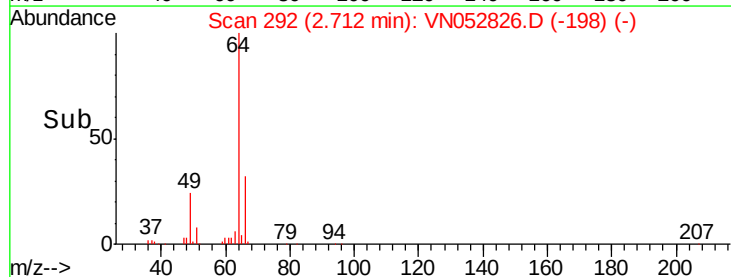
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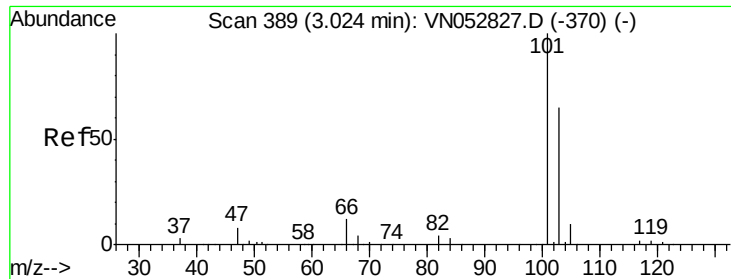
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0

2.60 2.65 2.70 2.75 2.80

Time-->





#7

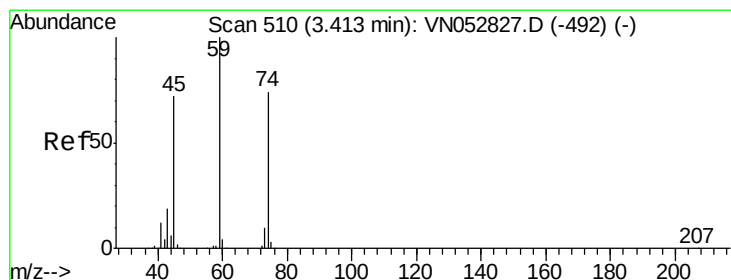
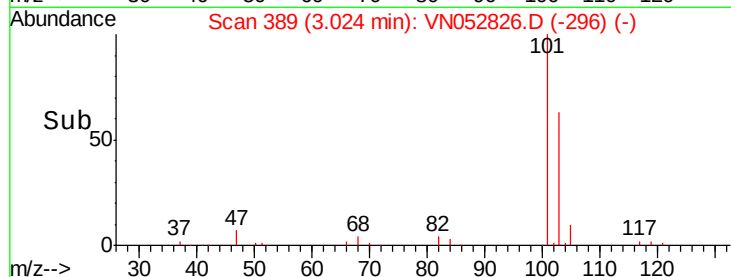
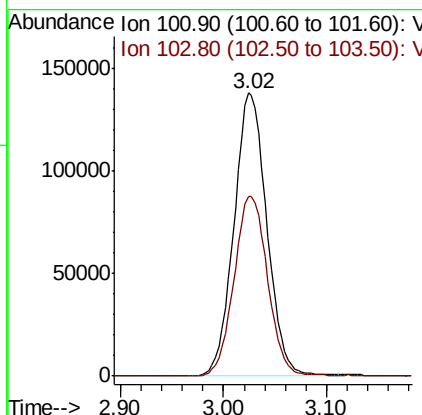
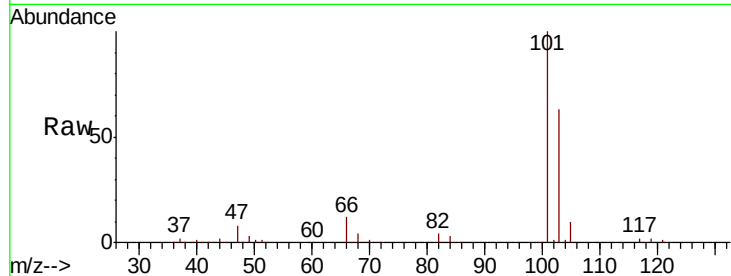
Trichlorofluoromethane
Concen: 20.411 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		307170		
103	63.5	51.8	77.6		

Manual Integrations
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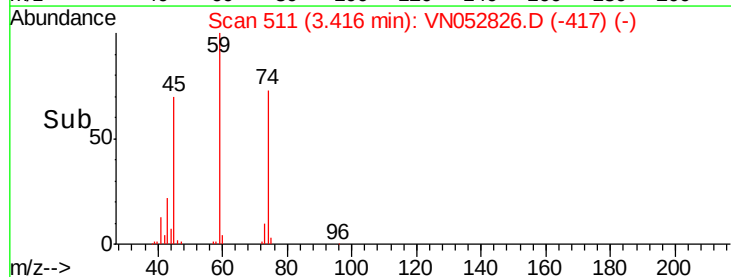
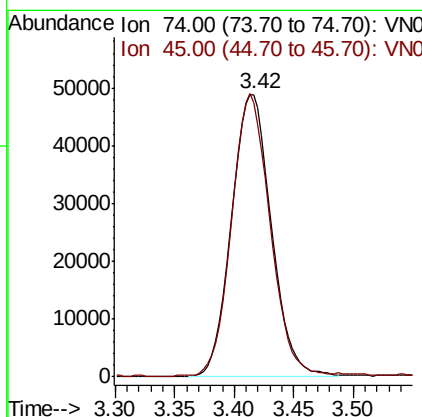
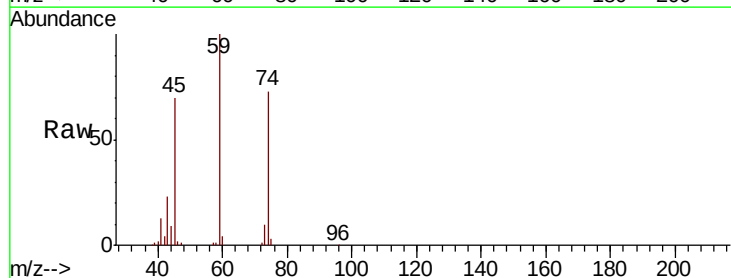
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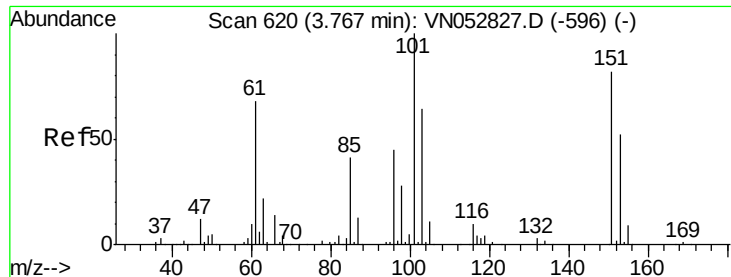


#8

Diethyl Ether
Concen: 20.666 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		113449		
45	97.5	49.4	148.0		





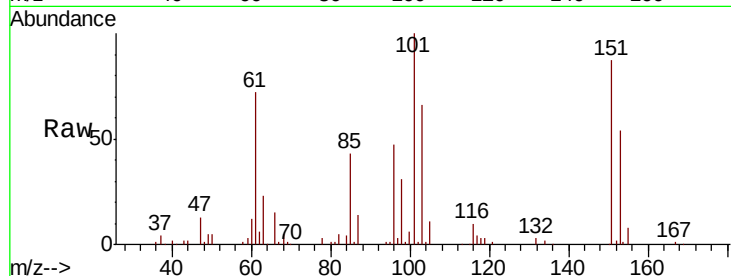
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.483 ug/l
RT: 3.77 min Scan# 620
Delta R.T. 0.00 min
Lab File: VN052826.D
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Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	191043		
85	41.5	33.6	50.4	
151	84.0	65.5	98.3	

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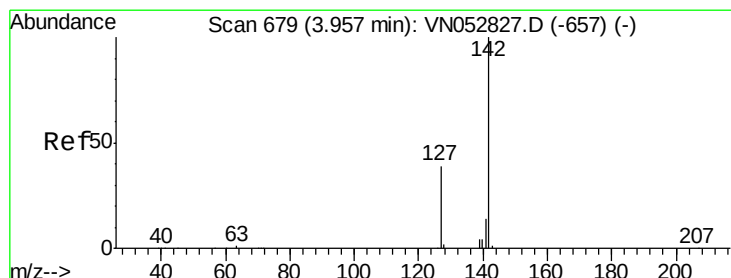
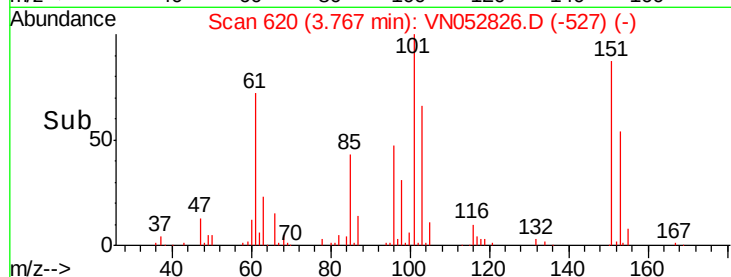
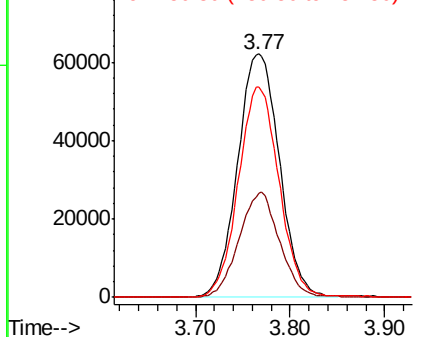


Abundance

Ion 100.90 (100.60 to 101.60): V

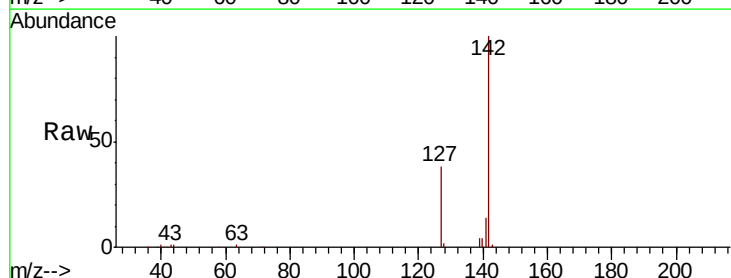
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10
Methyl Iodide
Concen: 19.211 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	250938		
127	38.9	31.0	46.6	
141	13.4	11.2	16.8	

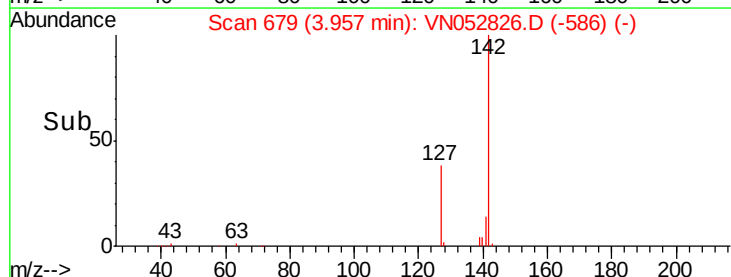
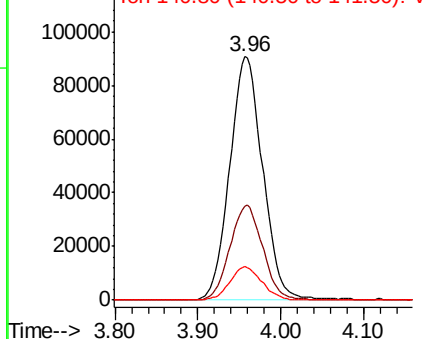


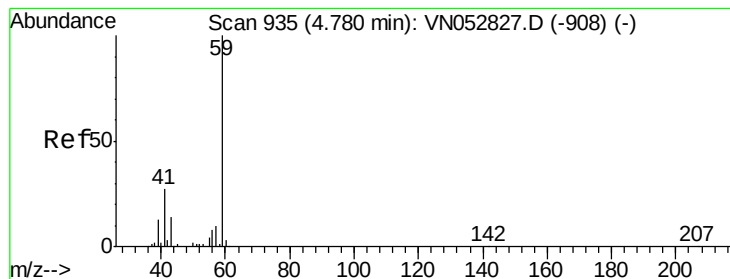
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

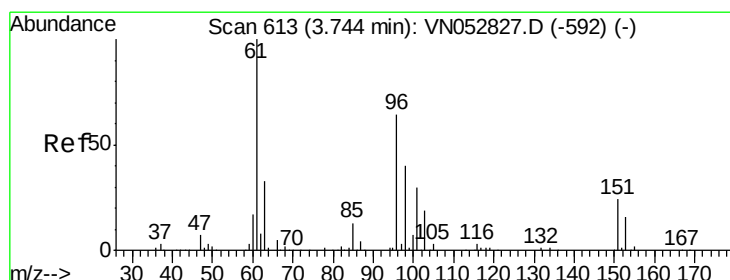
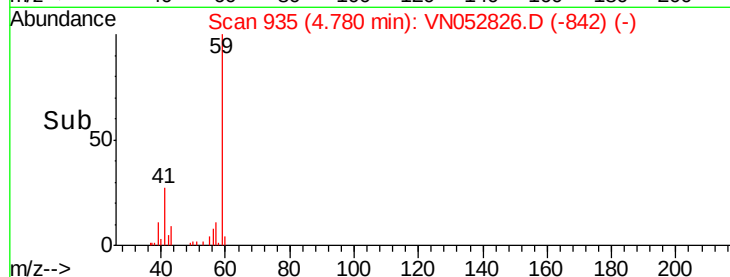
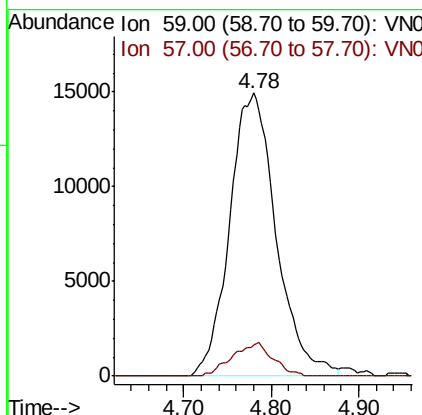
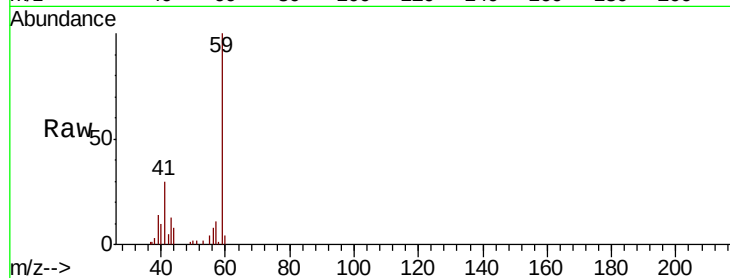
Tert butyl alcohol
 Concen: 94.562 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 59 Resp: 55173
 Ion Ratio Lower Upper
 59 100
 57 10.3 7.7 11.5

Manual Integrations
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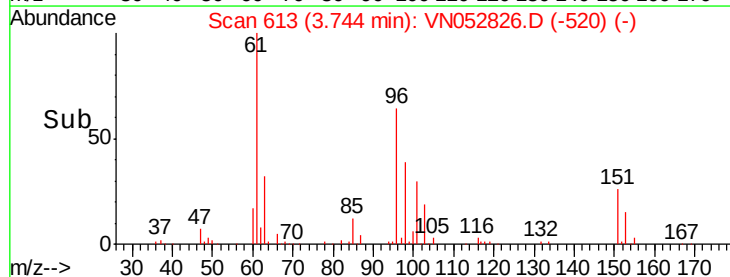
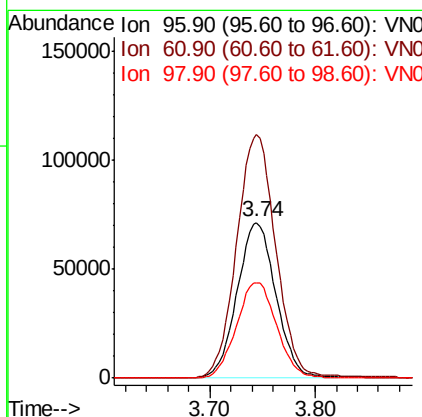
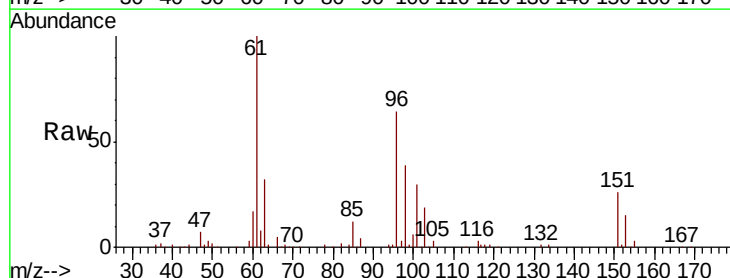
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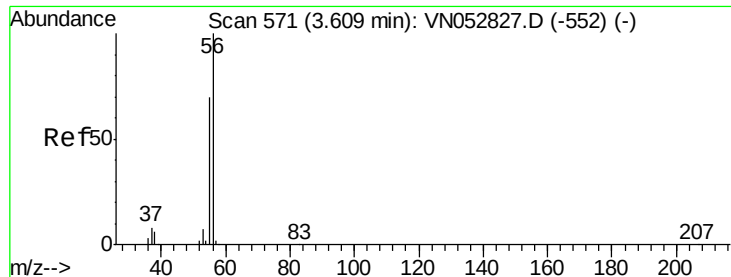


#12

1,1-Dichloroethene
 Concen: 20.261 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion: 96 Resp: 182933
 Ion Ratio Lower Upper
 96 100
 61 156.8 125.6 188.4
 98 61.7 50.6 75.8





#13

Acrolein

Concen: 99.662 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 54747

Ion Ratio Lower Upper

56 100

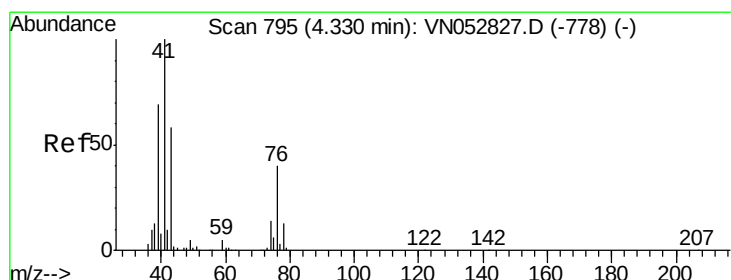
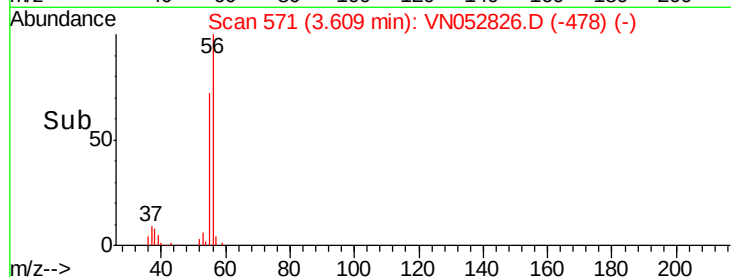
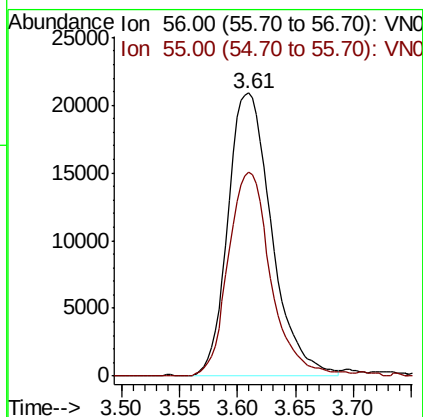
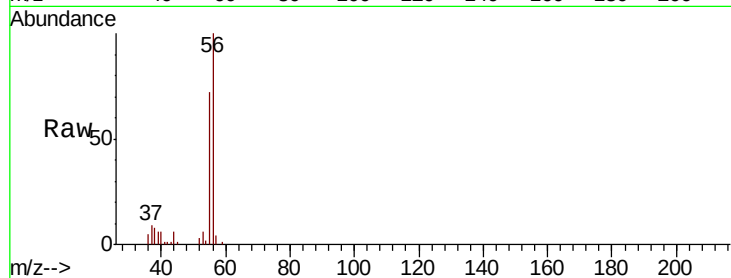
55 70.1 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 20.547 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

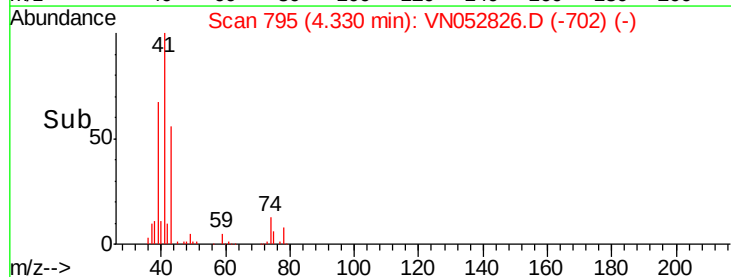
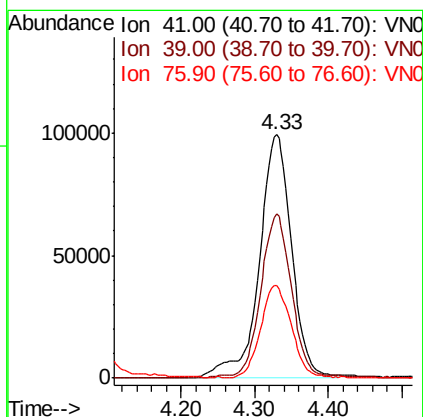
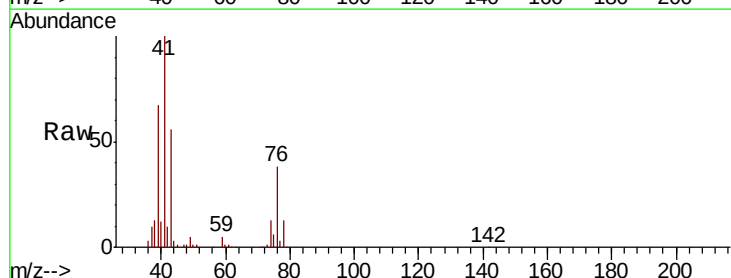
Tgt Ion: 41 Resp: 303024

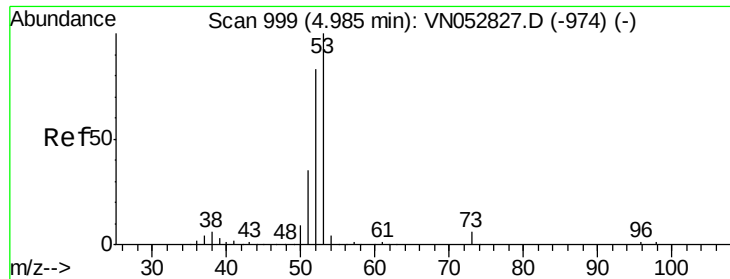
Ion Ratio Lower Upper

41 100

39 60.7 54.1 81.1

76 35.3 30.3 45.5





#15

Acrylonitrile

Concen: 102.979 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

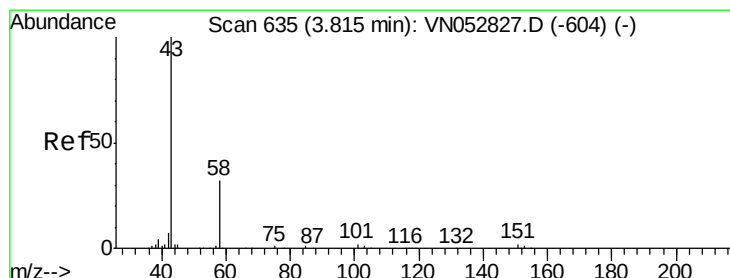
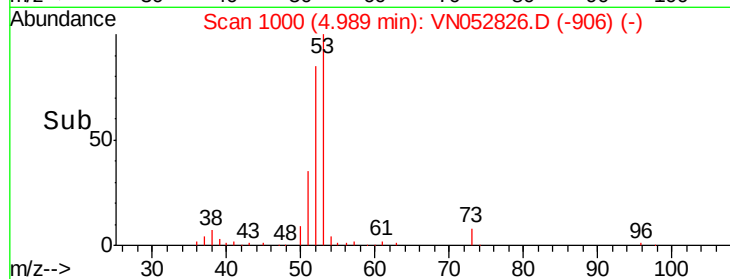
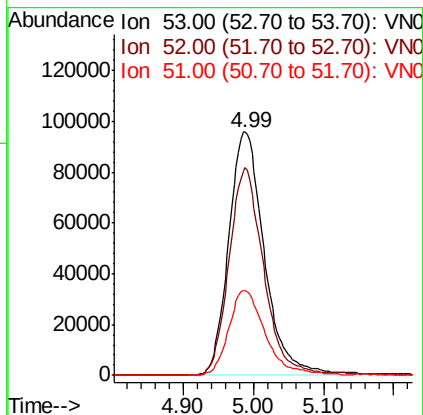
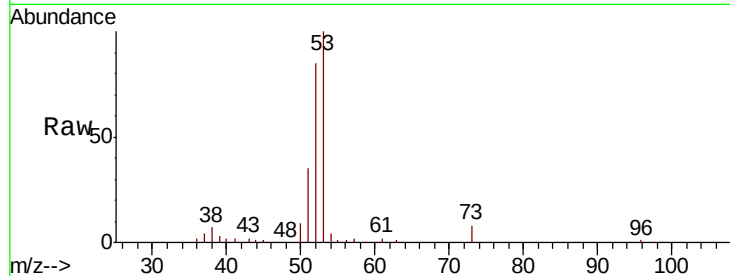
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	337075
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.1	97.7
51	36.1	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 103.316 ug/l

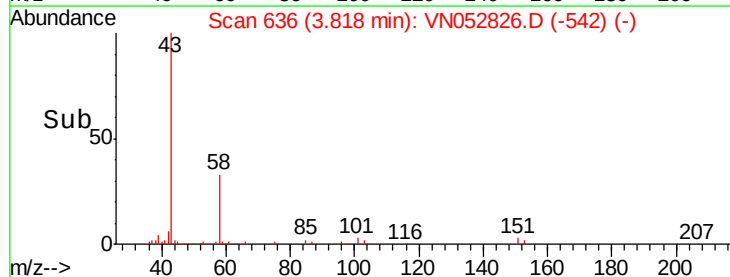
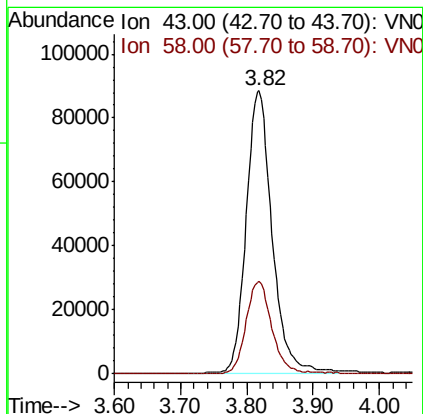
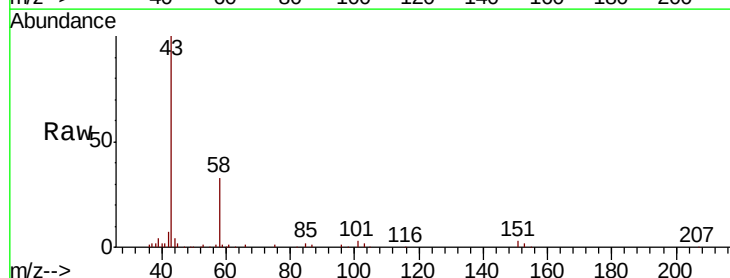
RT: 3.82 min Scan# 636

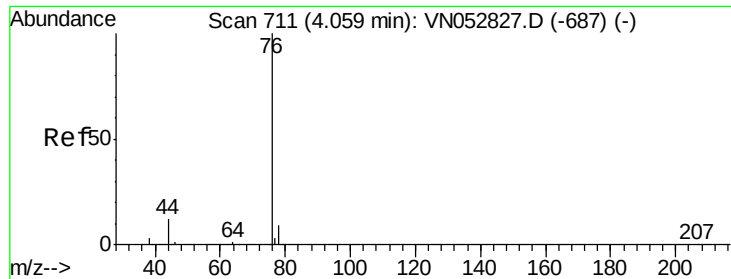
Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Tgt Ion:	43	Resp:	242299
Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.4	38.0





#17

Carbon Disulfide

Concen: 19.584 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 543206

Ion Ratio Lower Upper

76 100

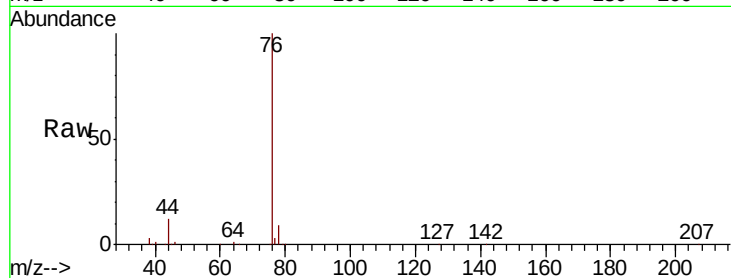
78 9.1 7.1 10.7

Manual Integrations

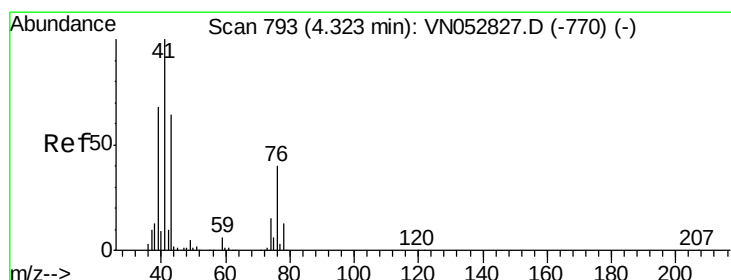
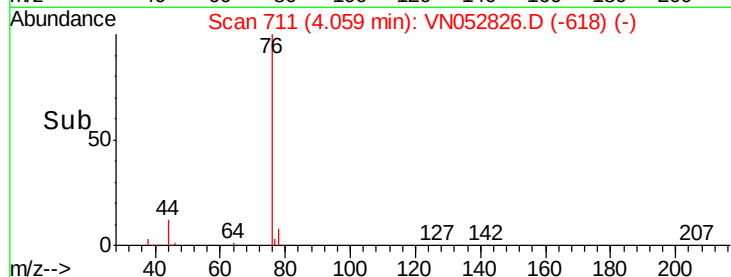
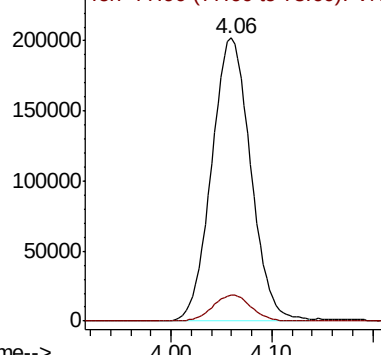
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Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 19.809 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052826.D

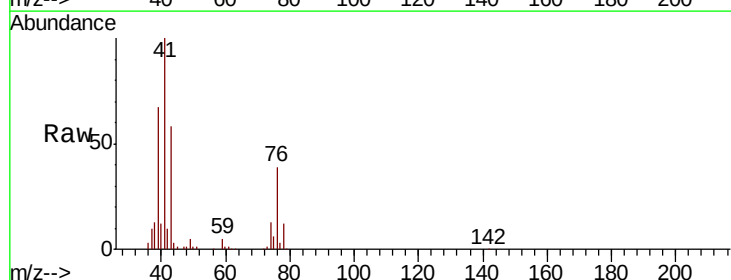
Acq: 12 Dec 2018 14:45

Tgt Ion: 43 Resp: 170499

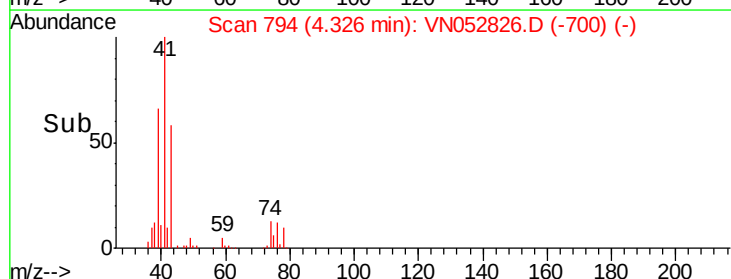
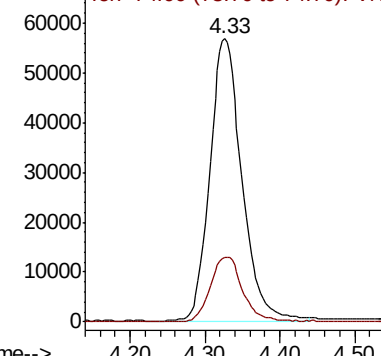
Ion Ratio Lower Upper

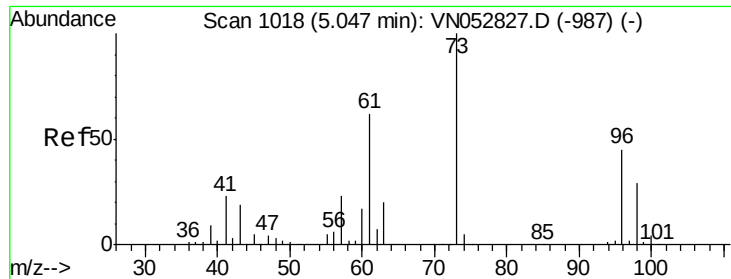
43 100

74 23.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO





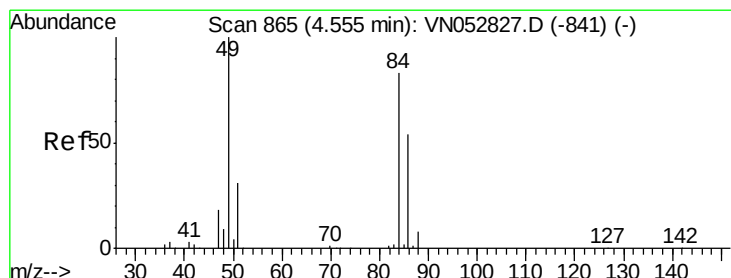
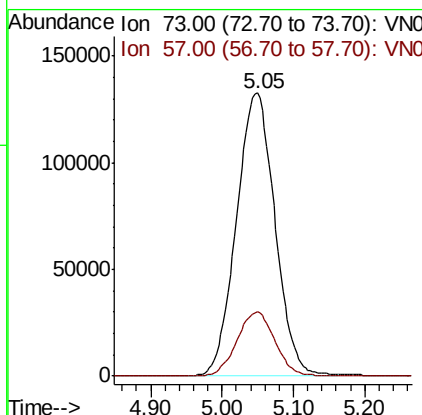
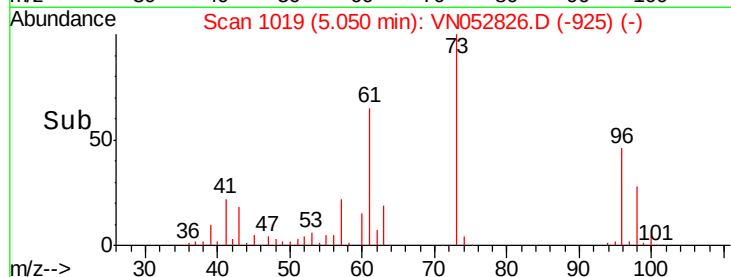
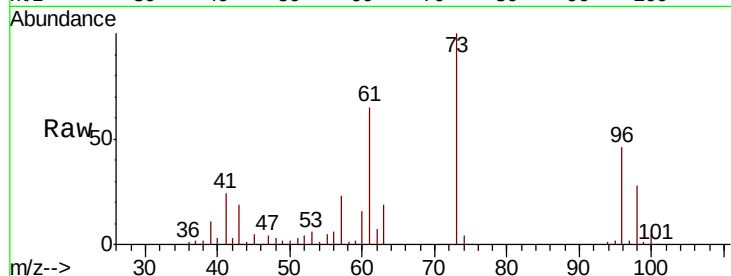
#19
Methyl tert-butyl Ether
Concen: 20.371 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 499328
Ion Ratio Lower Upper
73 100
57 22.6 18.4 27.6

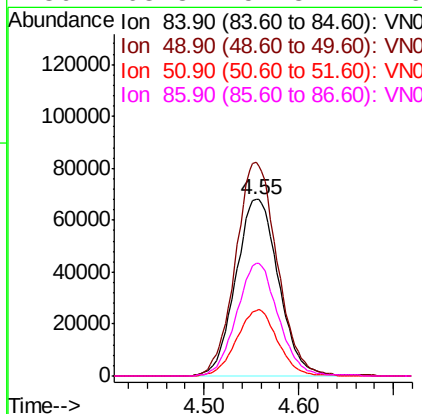
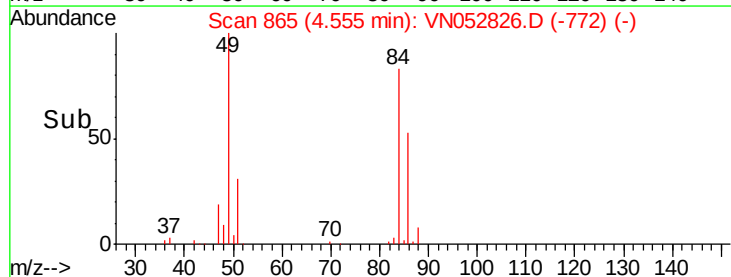
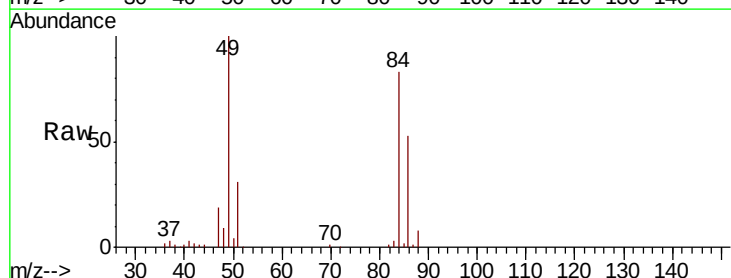
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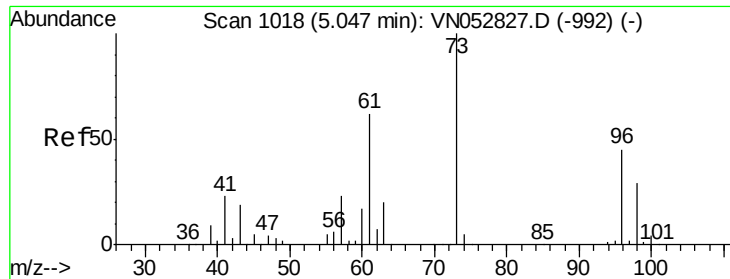
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#20
Methylene Chloride
Concen: 20.231 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion: 84 Resp: 213517
Ion Ratio Lower Upper
84 100
49 120.9 96.8 145.2
51 37.3 29.9 44.9
86 63.8 51.8 77.6





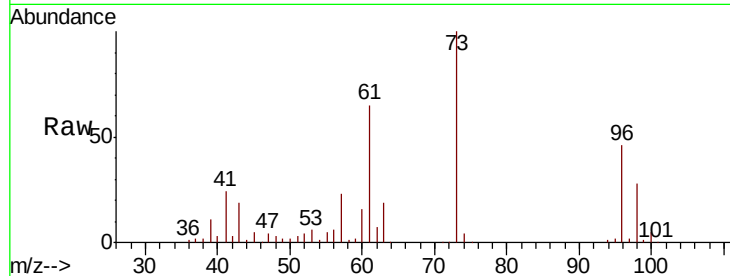
#21
trans-1,2-Dichloroethene
Concen: 19.898 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.5	110.8	166.2
98	62.2	51.4	77.2

Manual Integrations
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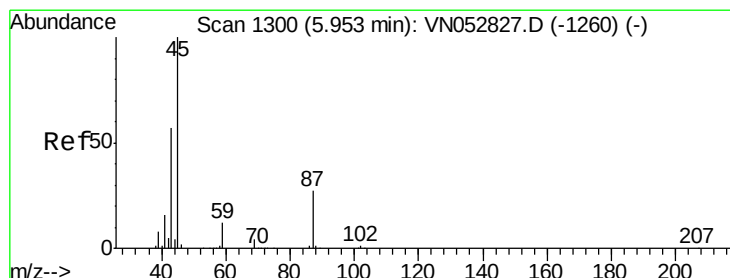
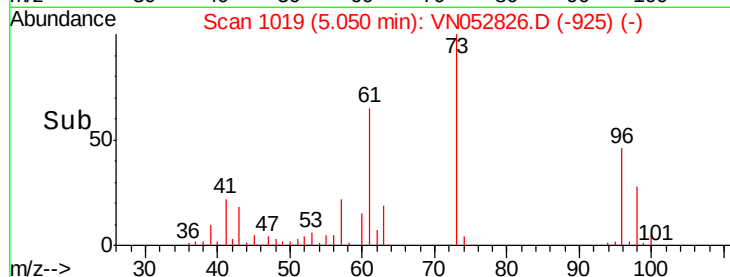
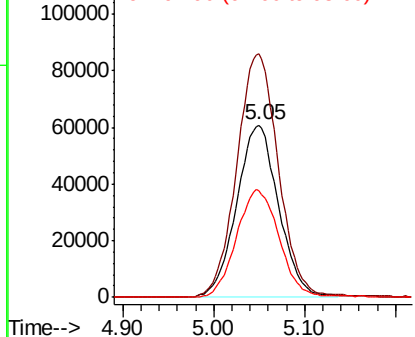


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 20.504 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.7	45.5	68.3
87	27.1	22.0	33.0
59	11.2	9.4	14.0

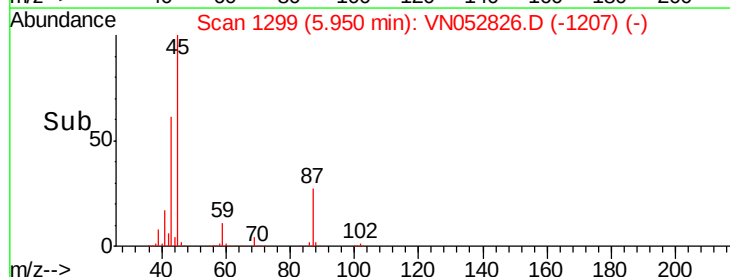
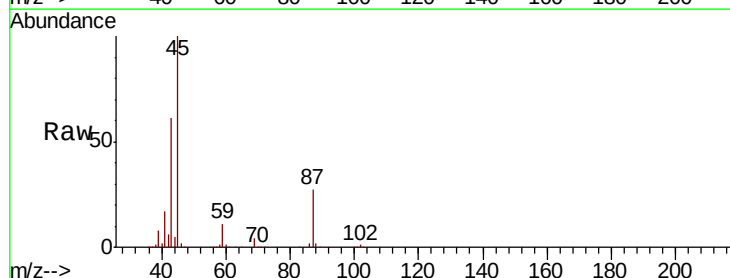
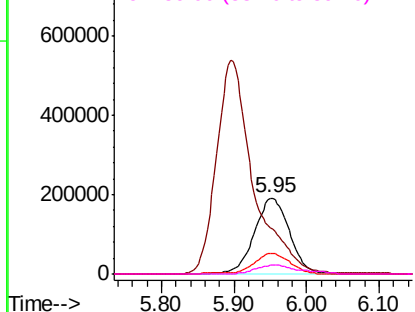
Abundance

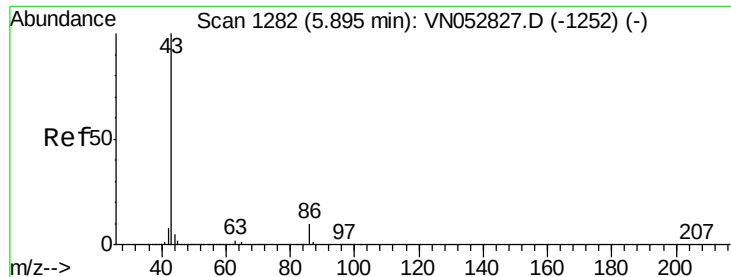
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 102.101 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1911425

Ion Ratio Lower Upper

43 100

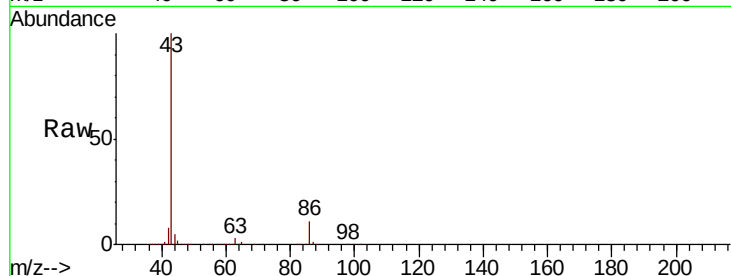
86 10.6 8.1 12.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

600000

500000

400000

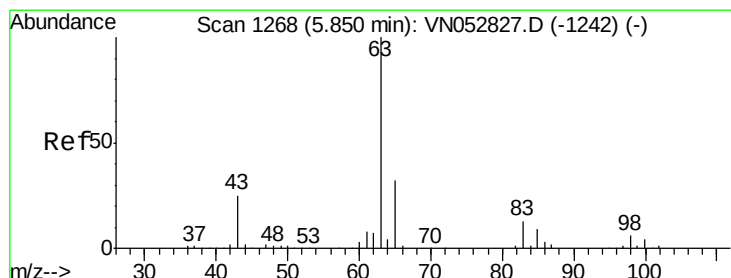
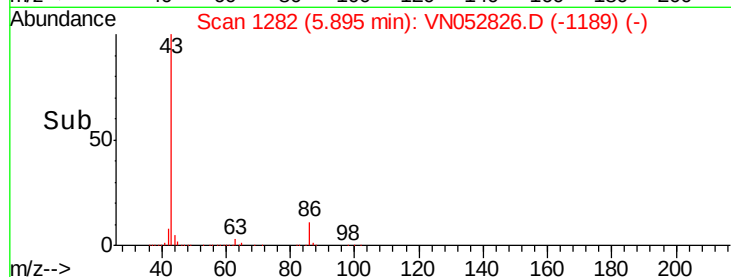
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 20.416 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

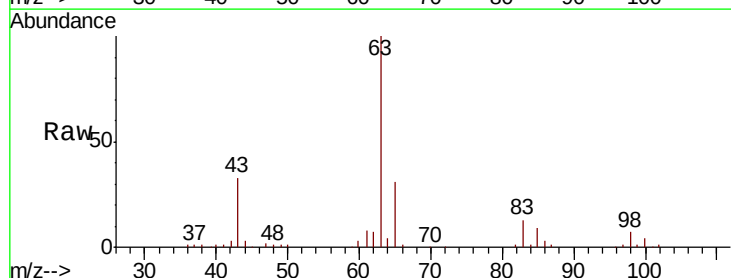
Tgt Ion: 63 Resp: 370409

Ion Ratio Lower Upper

63 100

98 6.8 3.1 9.4

100 4.5 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

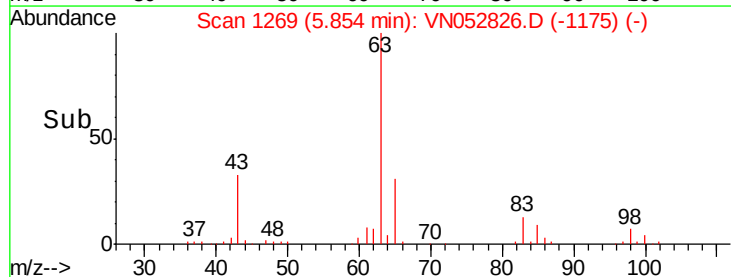
150000

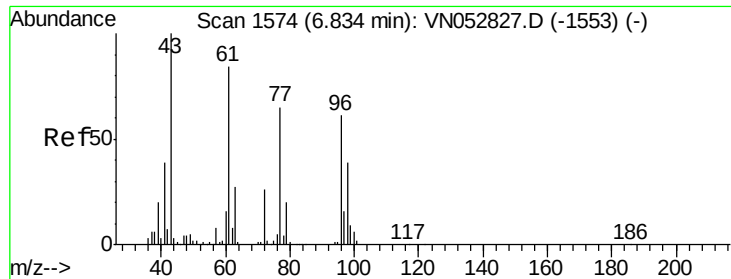
100000

50000

0

Time--> 5.70 5.80 5.90 6.00





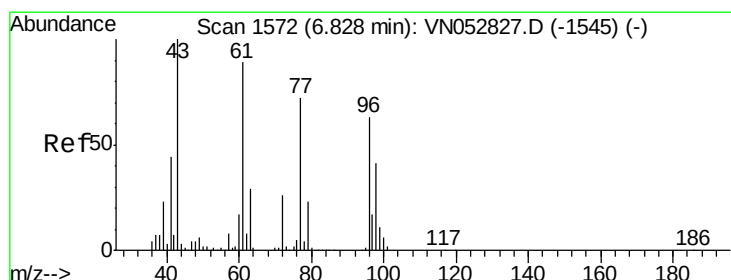
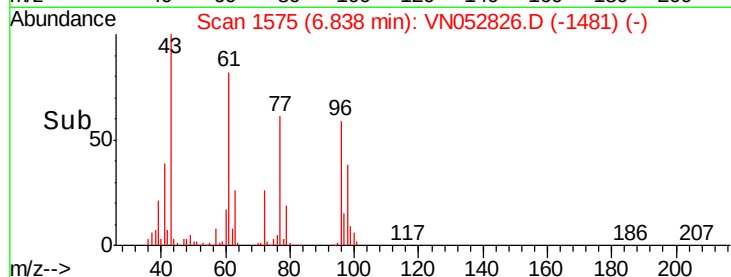
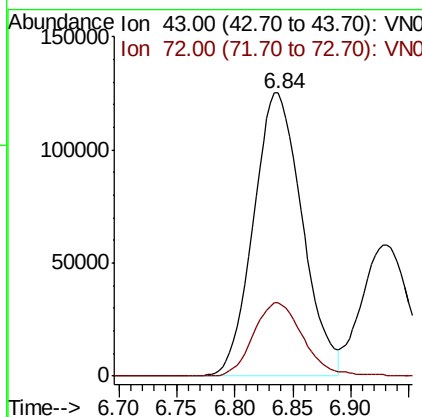
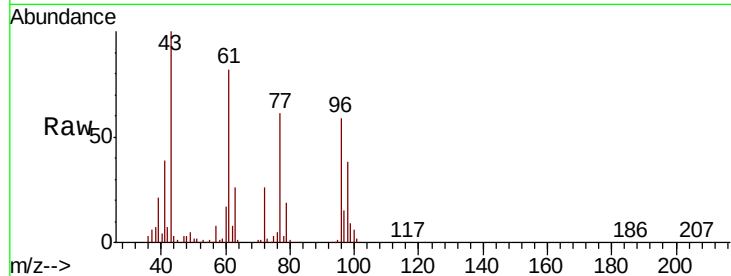
#25
2-Butanone
Concen: 100.328 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.0	31.6

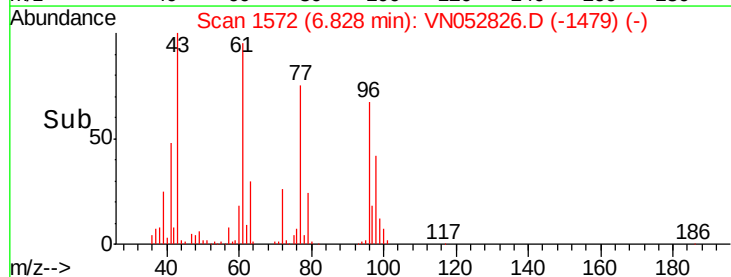
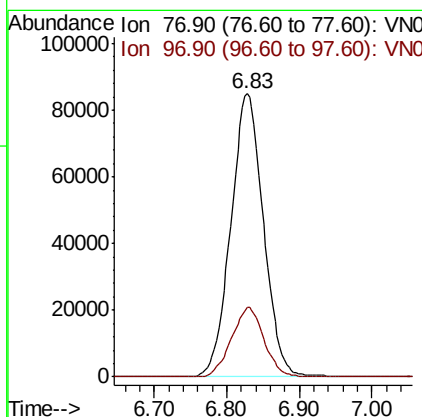
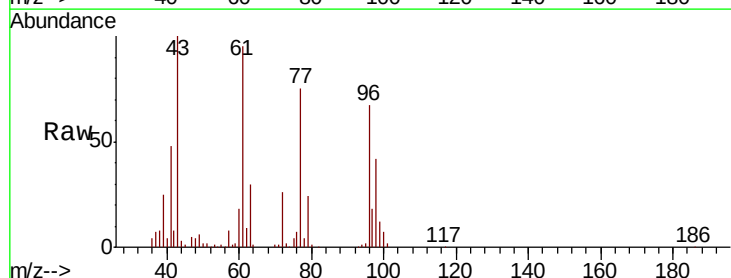
Manual Integrations
APPROVED

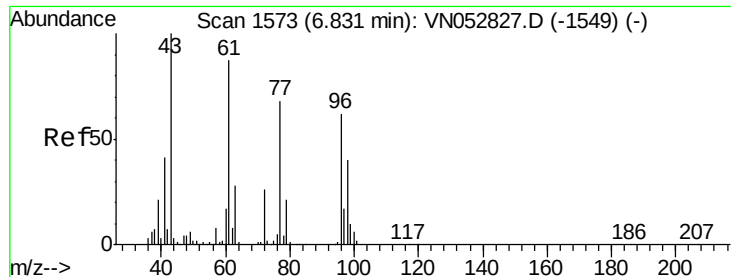
MMDadoda
12/13/2018 1:36:07 PM



#26
2,2-Dichloropropane
Concen: 19.935 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.4	11.9	35.9





#27

cis-1,2-Dichloroethene

Concen: 20.049 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

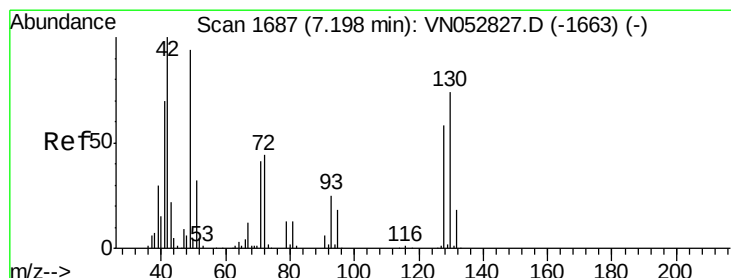
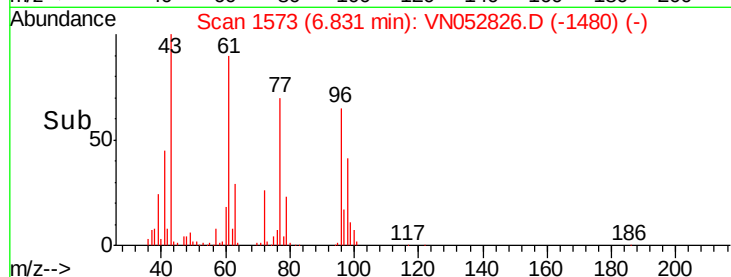
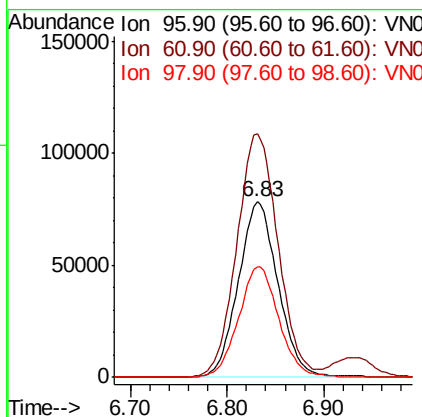
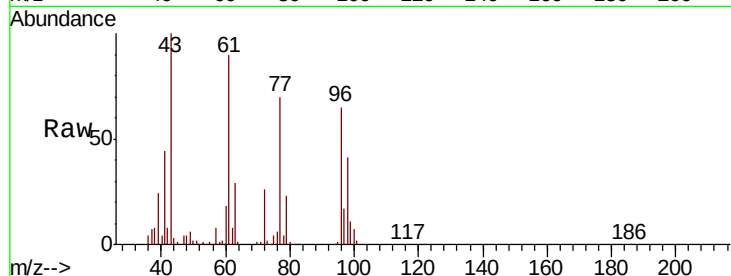
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	222590
Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	284.2
98	64.3	0.0	129.2

Manual Integrations
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12/13/2018 1:36:07 PM



#28

Bromochloromethane

Concen: 19.746 ug/l

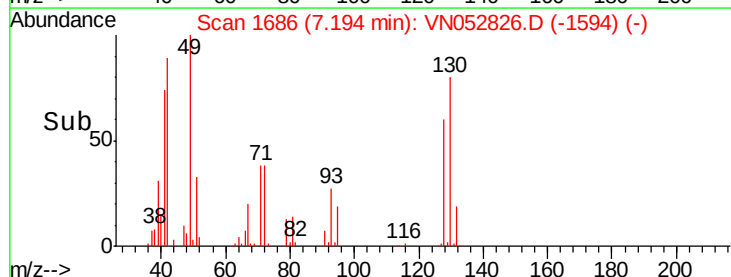
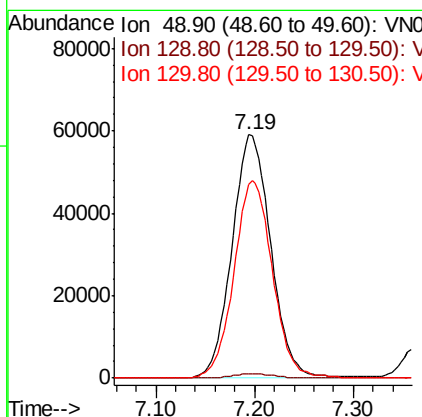
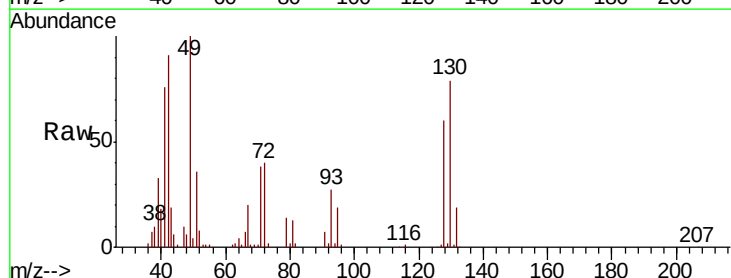
RT: 7.19 min Scan# 1686

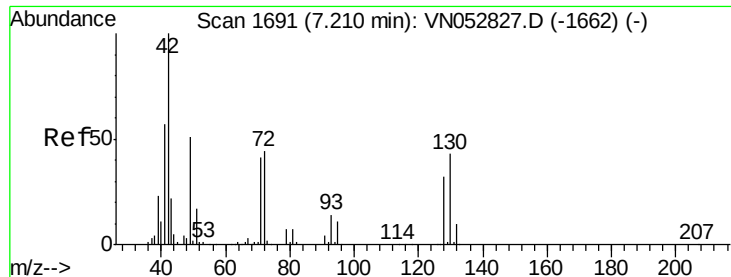
Delta R.T. -0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Tgt Ion:	49	Resp:	160874
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	80.8	63.3	94.9





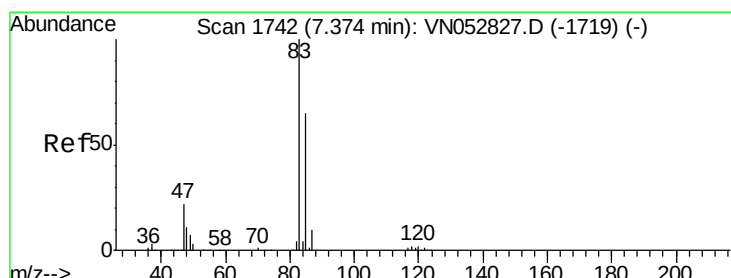
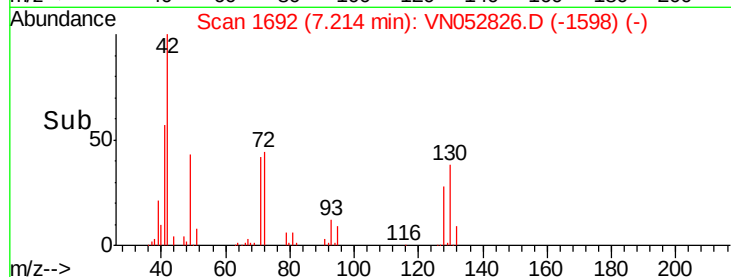
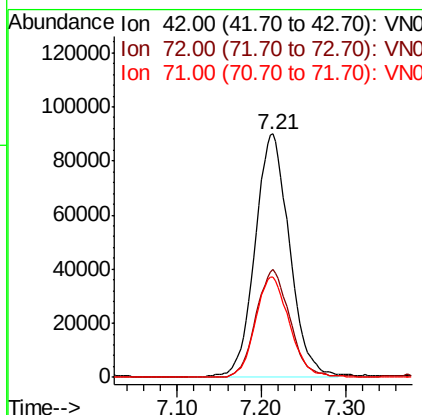
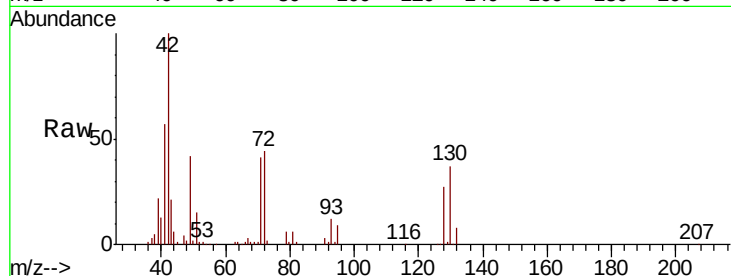
#29
Tetrahydrofuran
Concen: 102.168 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.7	52.1
71	41.2	32.3	48.5

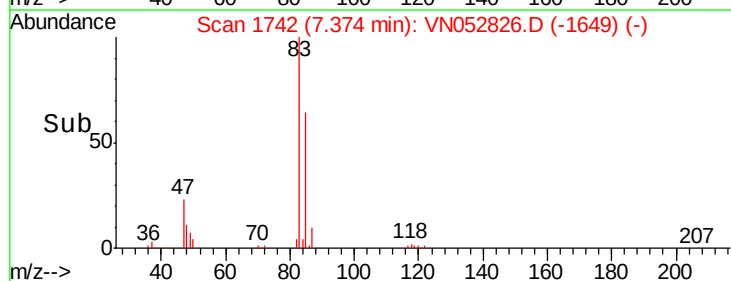
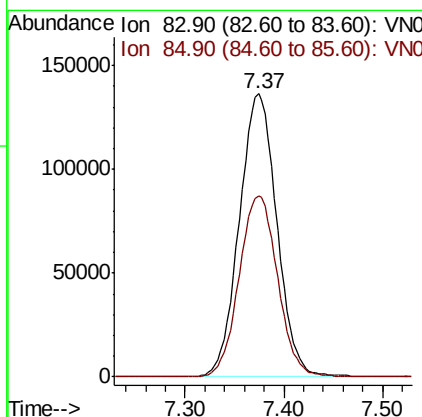
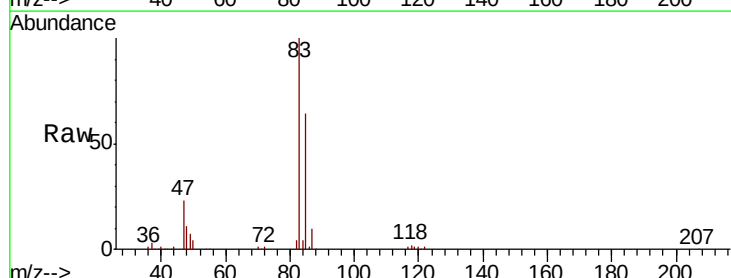
Manual Integrations
APPROVED

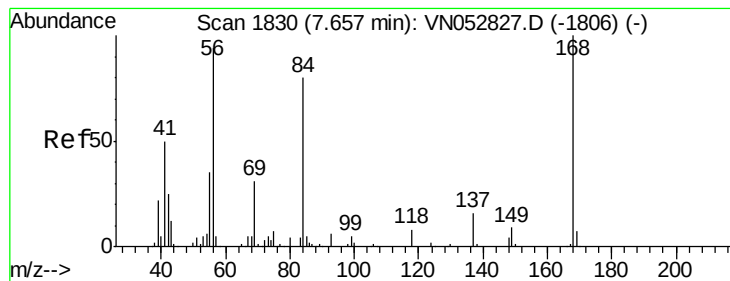
MMDadoda
12/13/2018 1:36:07 PM



#30
Chloroform
Concen: 20.302 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.1	78.1





#31

Cyclohexane

Concen: 17.682 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

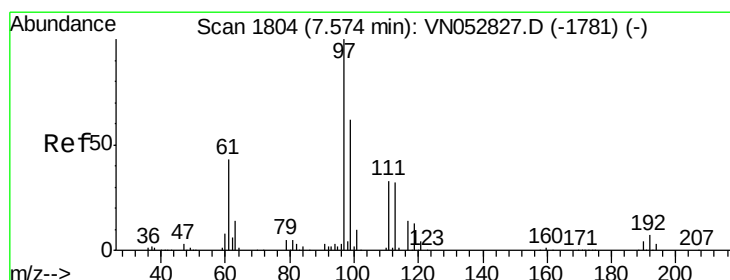
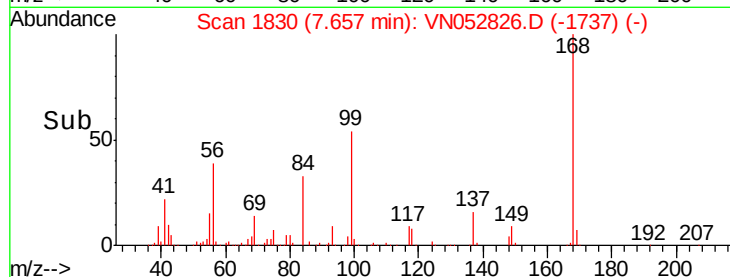
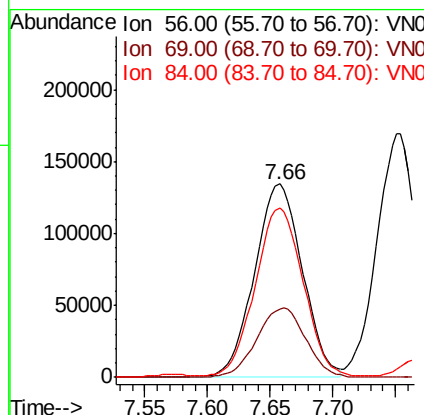
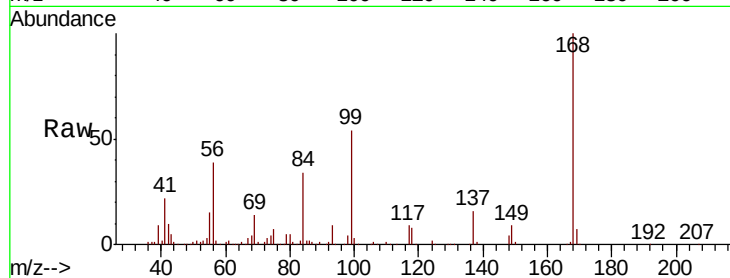
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	357685
Ion Ratio	Lower	Upper	
56	100		
69	35.4	26.6	39.8
84	86.4	68.4	102.6

Manual Integrations
APPROVED

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12/13/2018 1:36:07 PM



#32

1,1,1-Trichloroethane

Concen: 20.427 ug/l

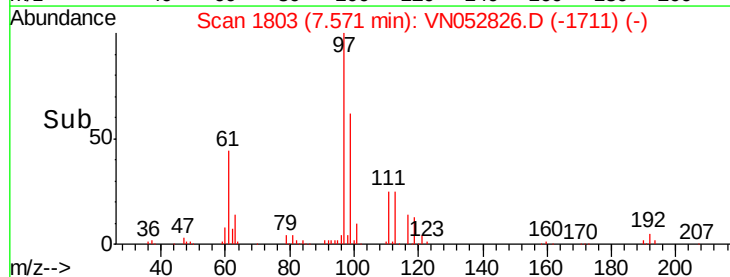
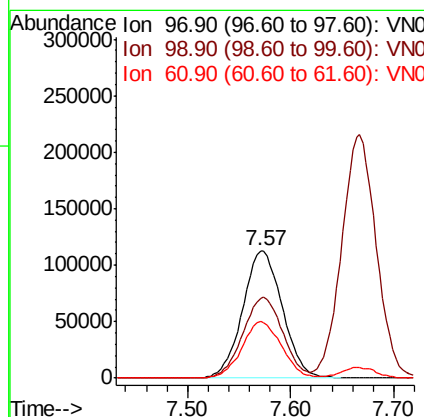
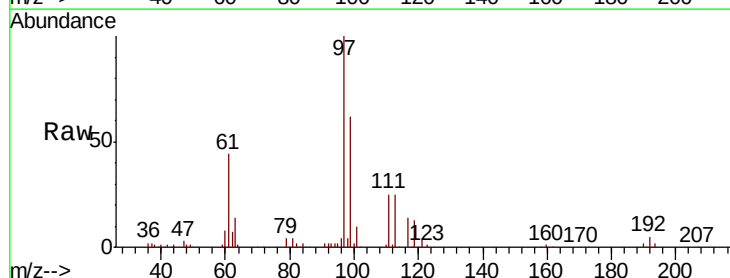
RT: 7.57 min Scan# 1803

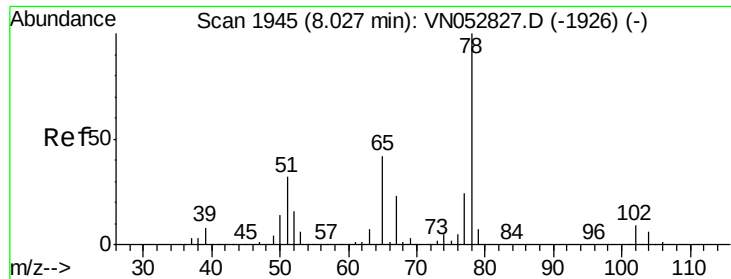
Delta R.T. -0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Tgt Ion:	97	Resp:	302380
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.1	76.7
61	44.4	35.0	52.6





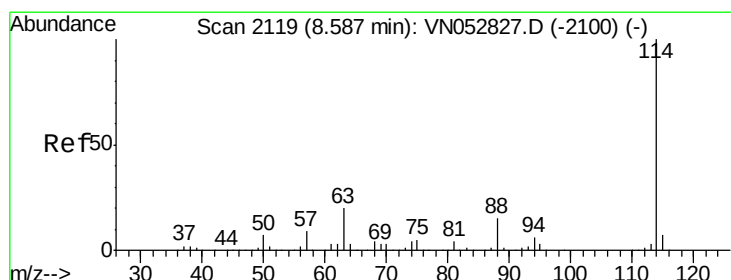
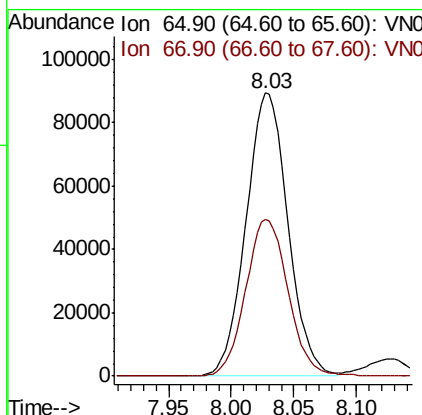
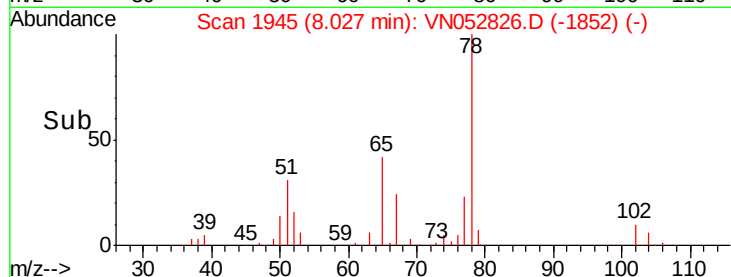
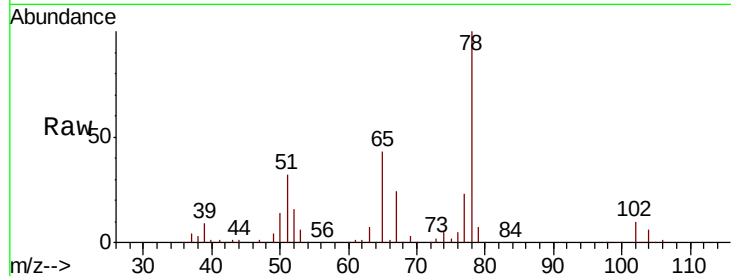
#33
 1,2-Dichloroethane-d4
 Concen: 20.427 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	207867		
67	56.2	0.0	110.4	

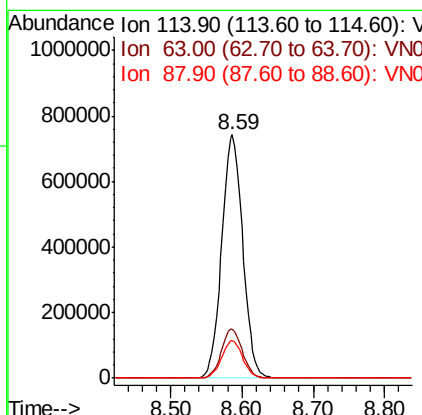
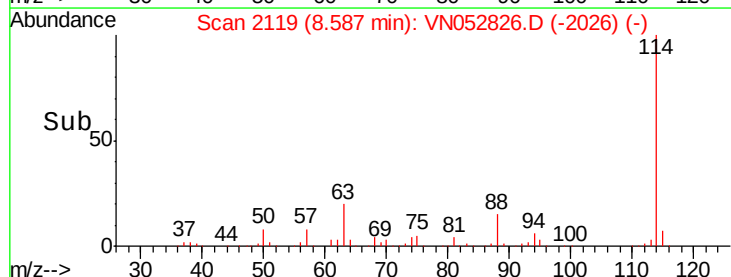
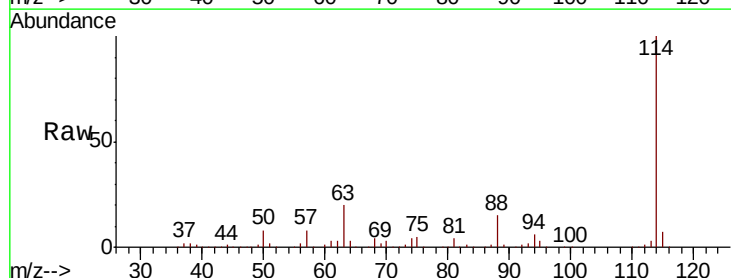
Manual Integrations
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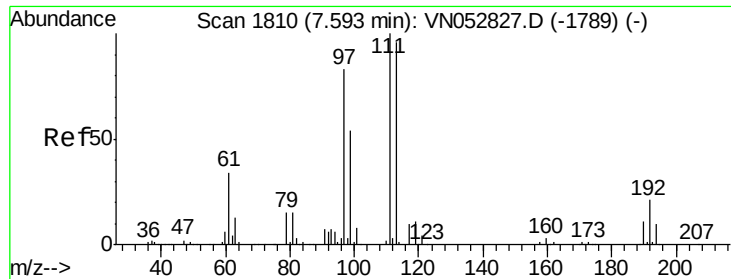
MMDadoda
 12/13/2018 1:36:07 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1515996		
63	20.3	0.0	39.8	
88	15.5	0.0	31.0	





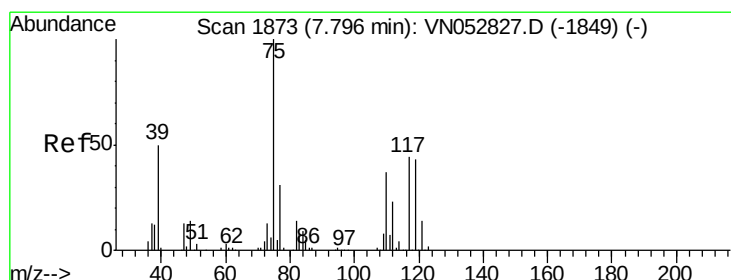
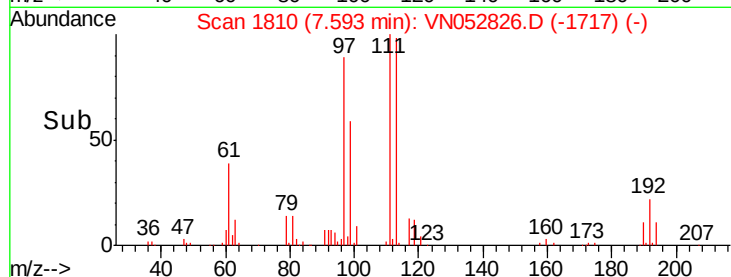
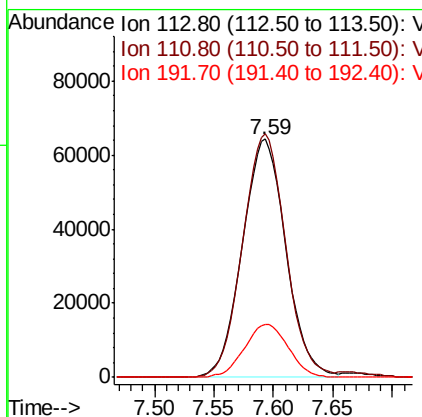
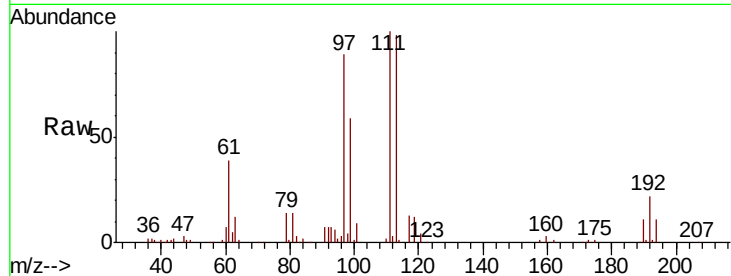
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	162916		
111	101.1	83.0	124.4	
192	22.3	17.5	26.3	

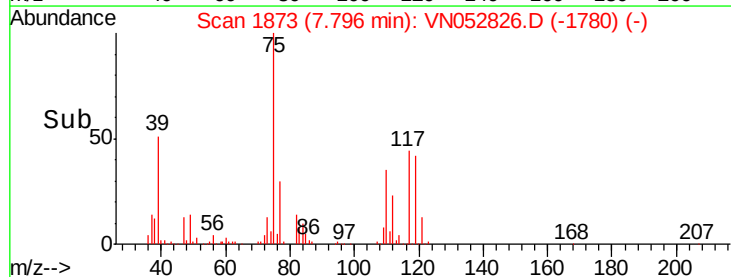
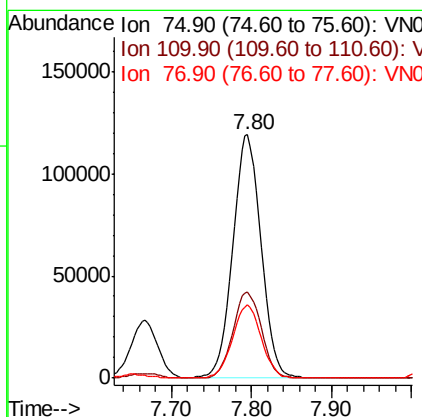
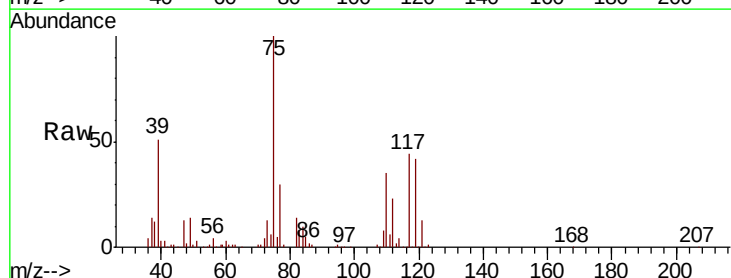
Manual Integrations
APPROVED

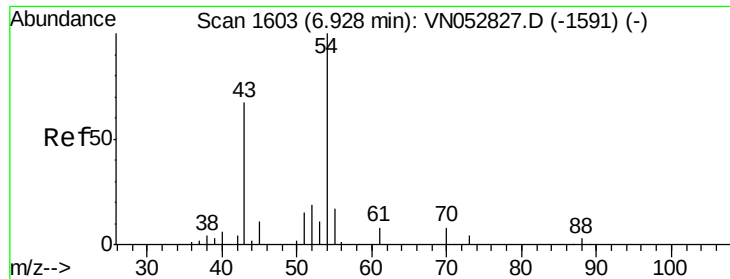
MMDadoda
12/13/2018 1:36:07 PM



#36
1,1-Dichloropropene
Concen: 20.320 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	283679		
110	35.8	18.2	54.6	
77	30.5	24.9	37.3	





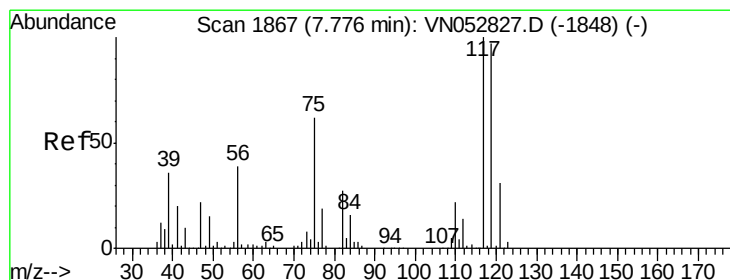
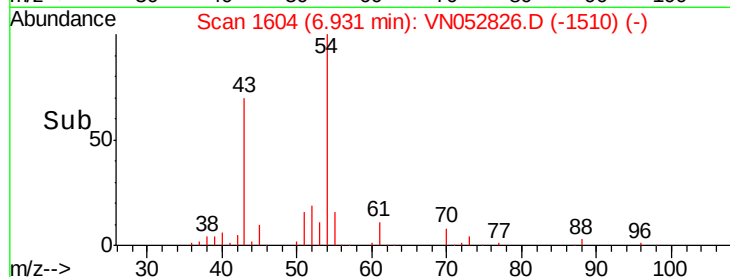
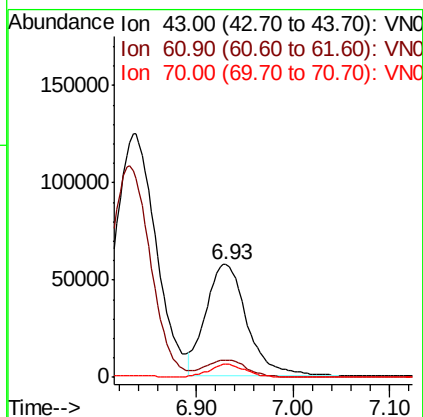
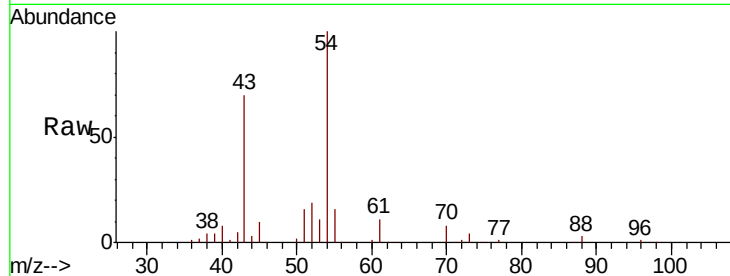
#37
Ethyl Acetate
Concen: 20.306 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.8	17.6
70	10.5	8.4	12.6

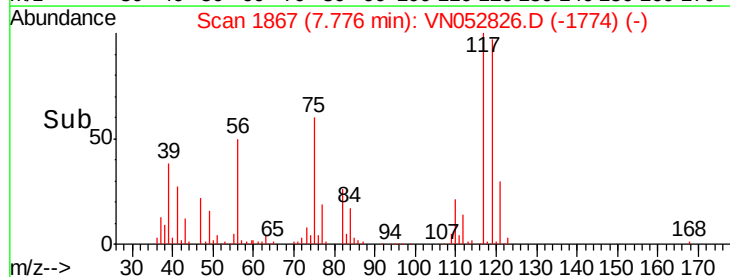
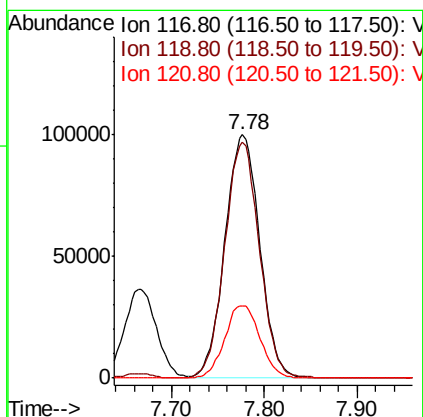
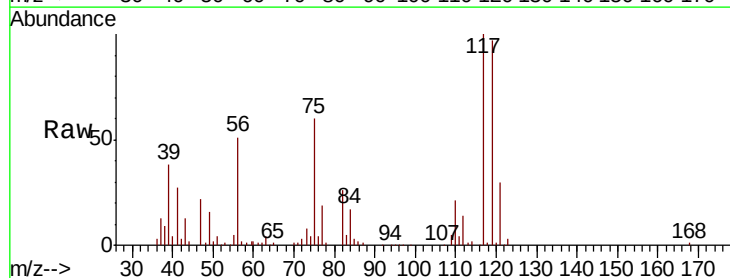
Manual Integrations
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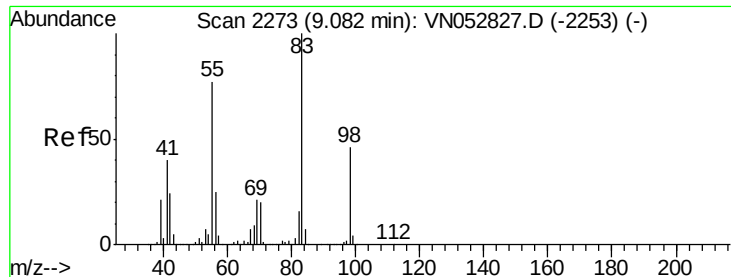
MMDadoda
12/13/2018 1:36:07 PM



#38
Carbon Tetrachloride
Concen: 20.338 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.1	115.7
121	29.8	24.9	37.3





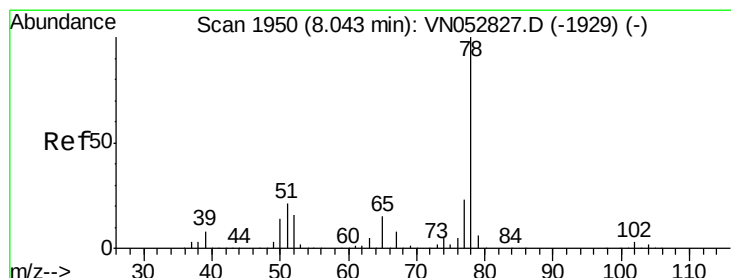
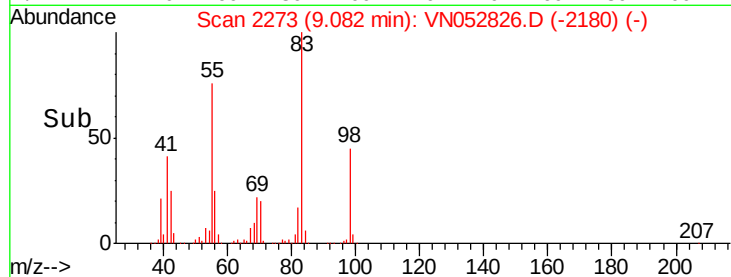
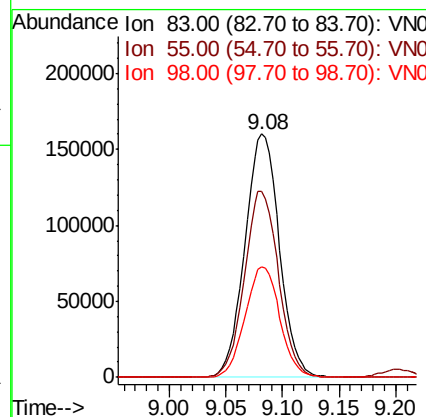
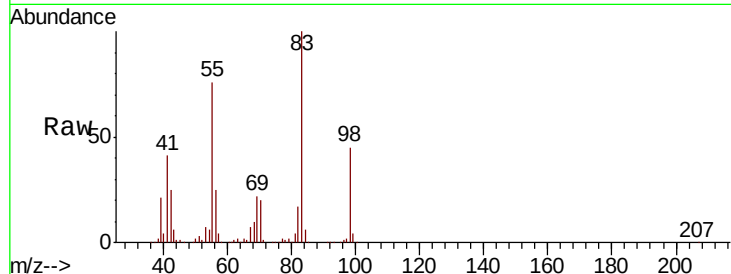
#39
Methylvlcyclohexane
Concen: 19.845 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	76.3		61.3	91.9
98	45.4		37.0	55.4

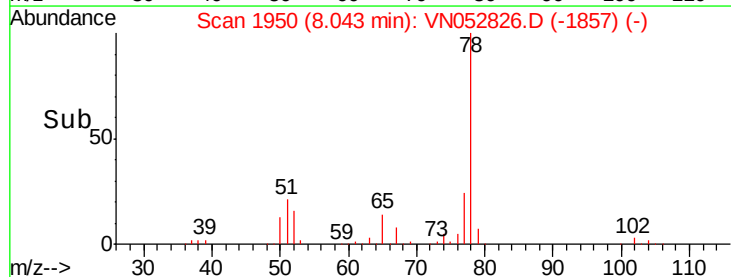
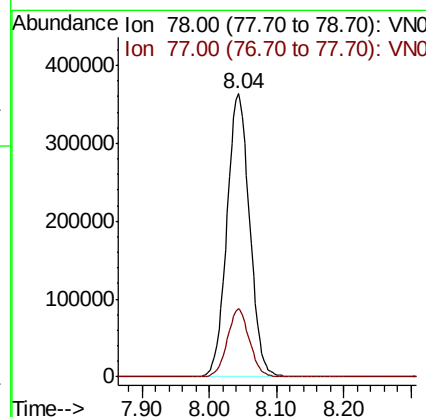
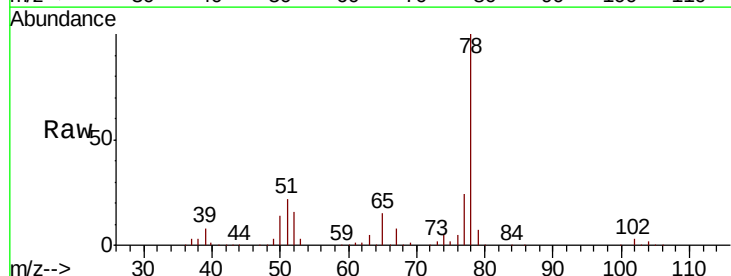
Manual Integrations
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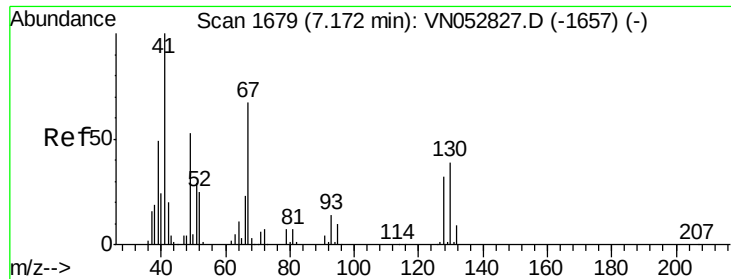
MMDadoda
12/13/2018 1:36:07 PM



#40
Benzene
Concen: 20.431 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.2		18.5	27.7





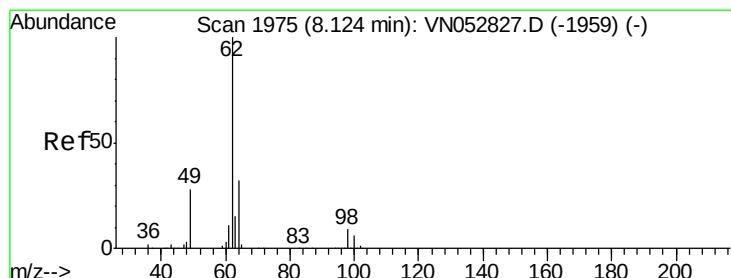
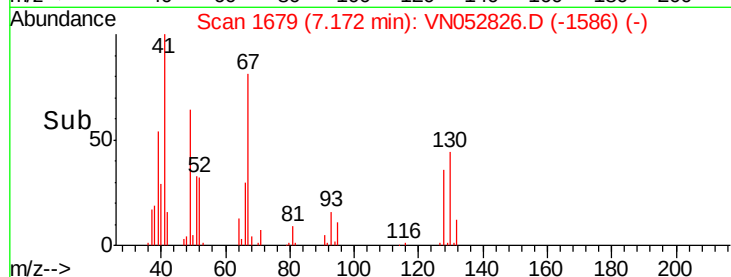
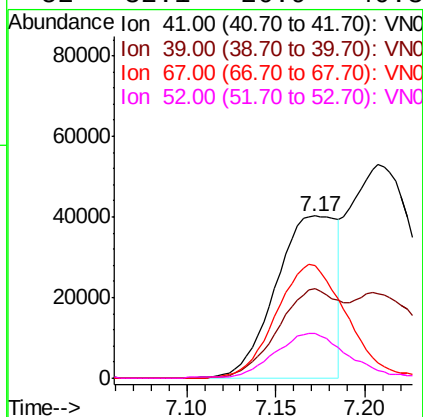
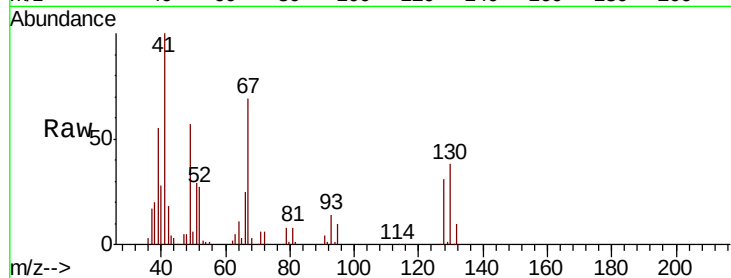
#41
Methacrylonitrile
Concen: 20.618 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.4	48.0	72.0	
67	81.3	70.3	105.5	
52	32.1	26.9	40.3	

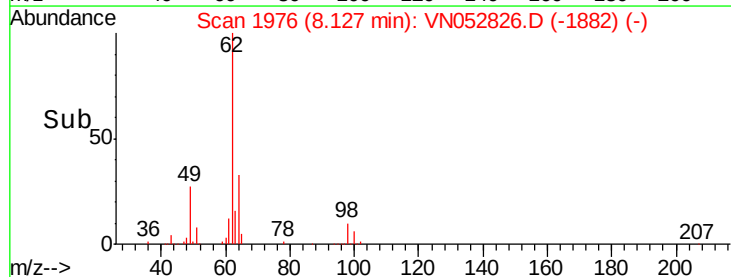
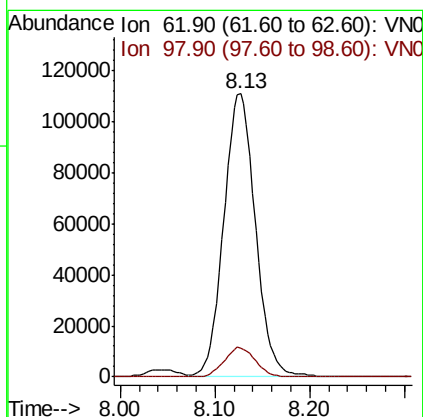
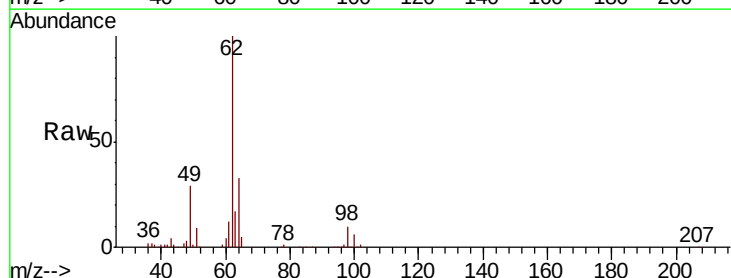
Manual Integrations
APPROVED

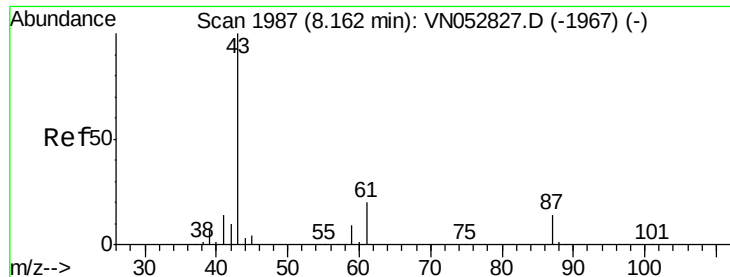
MMDadoda
12/13/2018 1:36:07 PM



#42
1,2-Dichloroethane
Concen: 20.344 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.3	0.0	19.0	





#43

Isopropyl Acetate

Concen: 18.716 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

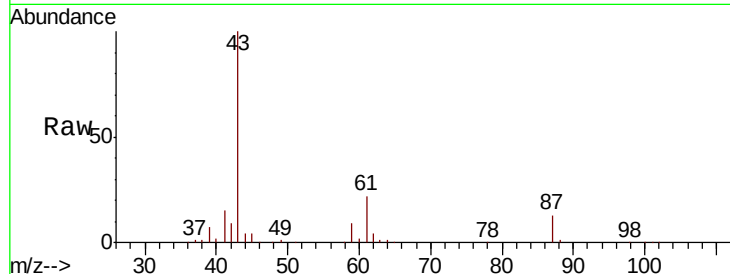
ClientSampleId :

VSTDIC020

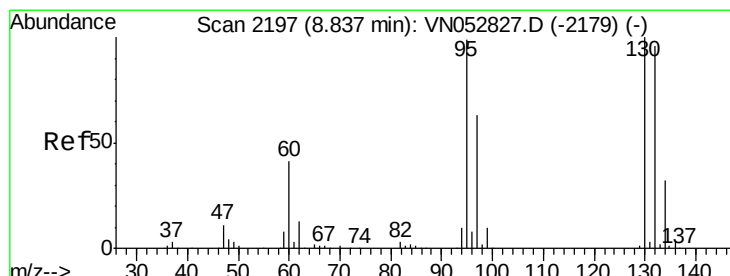
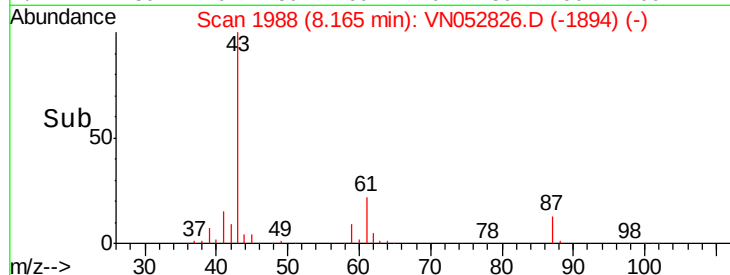
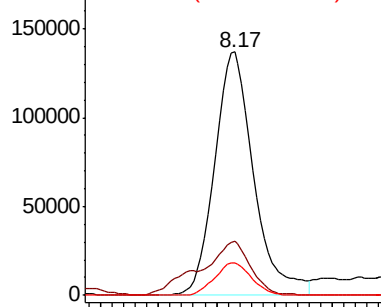
Tot Ion:	43	Resp:	321822
Ion	Ratio	Lower	Upper
43	100		
61	28.2	22.9	34.3
87	12.7	10.6	15.8

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Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)



#44

Trichloroethene

Concen: 20.244 ug/l

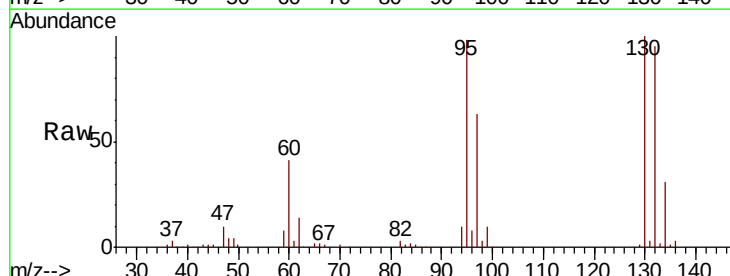
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

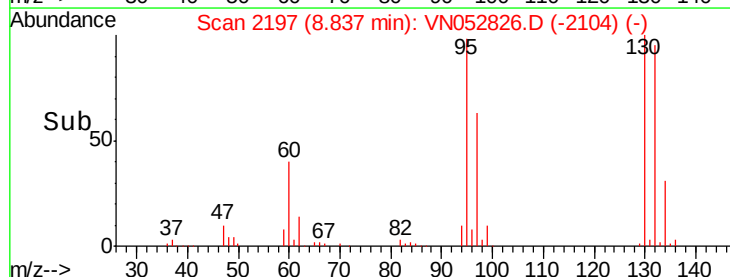
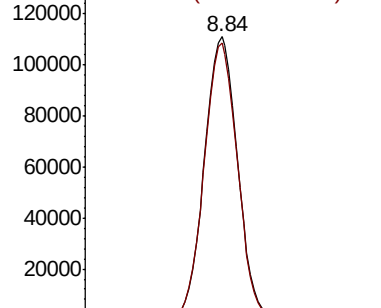
Lab File: VN052826.D

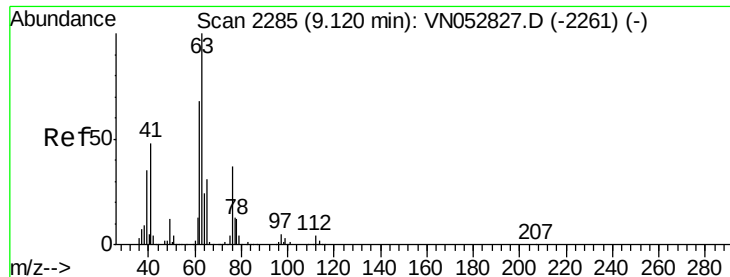
Acq: 12 Dec 2018 14:45

Tgt Ion:	130	Resp:	229110
Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	197.8



Abundance Ion 129.80 (129.50 to 130.50): VN052827.D (-2179) (-)





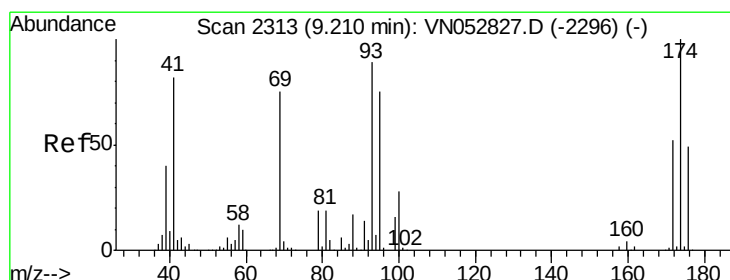
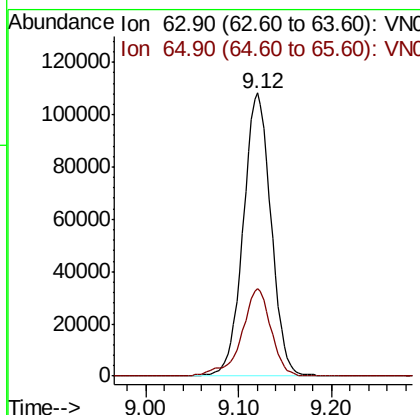
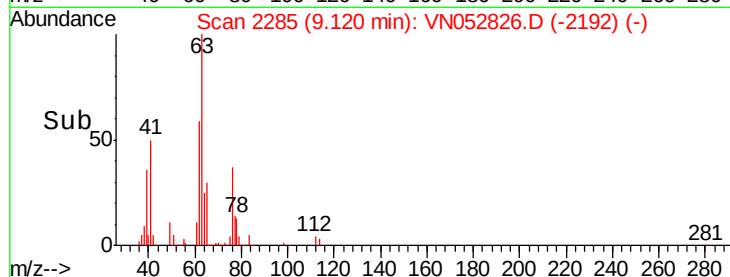
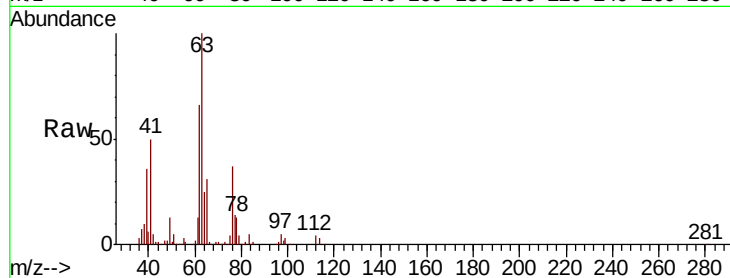
#45
 1,2-Dichloropropane
 Concen: 20.475 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 224702
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.6 37.0

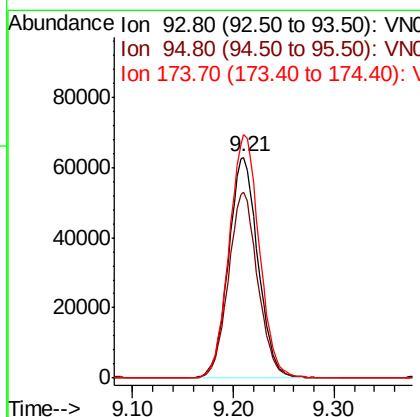
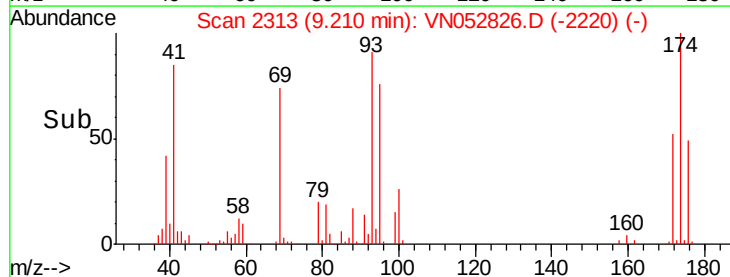
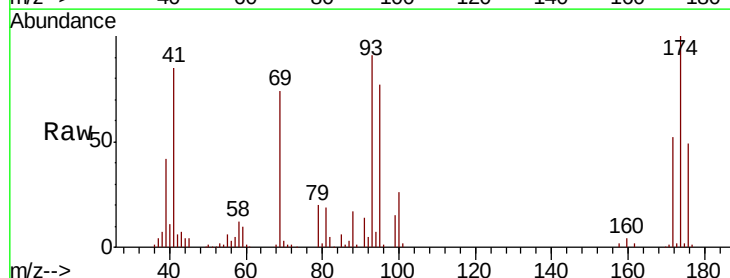
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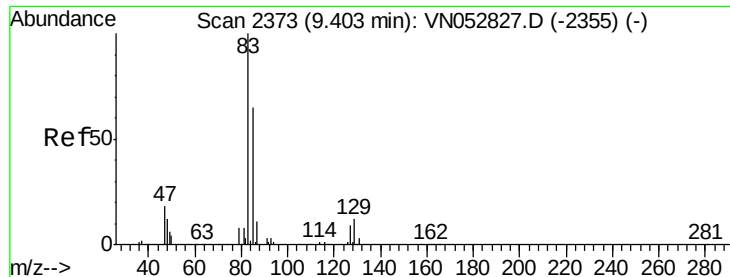
MMDadoda
 12/13/2018 1:36:07 PM



#46
 Dibromomethane
 Concen: 20.193 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion: 93 Resp: 128522
 Ion Ratio Lower Upper
 93 100
 95 83.3 67.8 101.6
 174 112.2 89.0 133.4





#47

Bromodichloromethane

Concen: 20.261 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

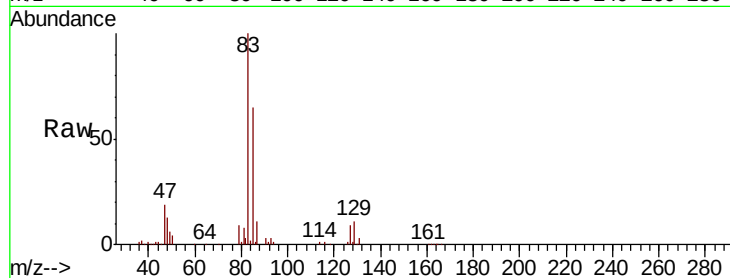
ClientSampleId :

VSTDIC020

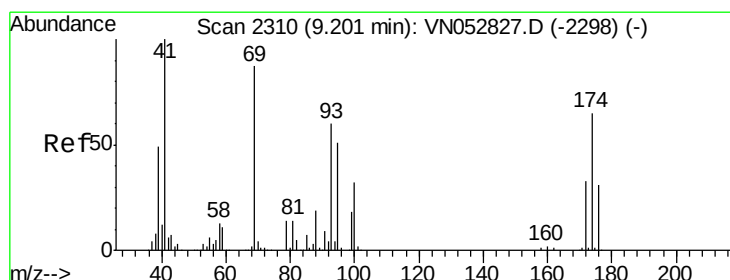
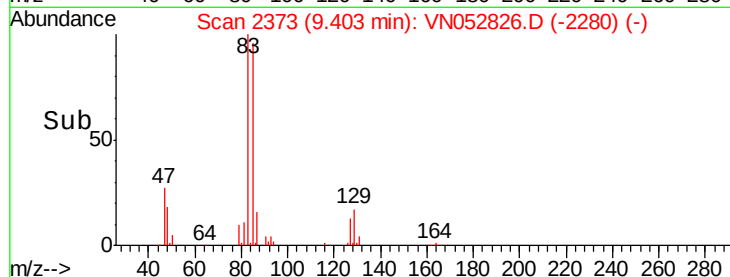
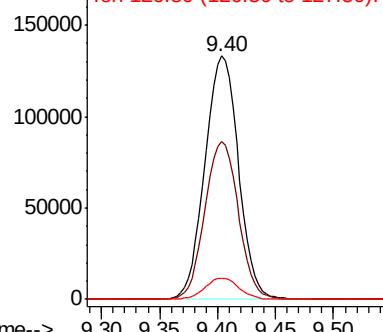
Tot Ion:	83	Resp:	267409
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.6	77.4
127	8.5	7.1	10.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN052826.D (-2280) (-)



#48

Methyl methacrylate

Concen: 20.471 ug/l

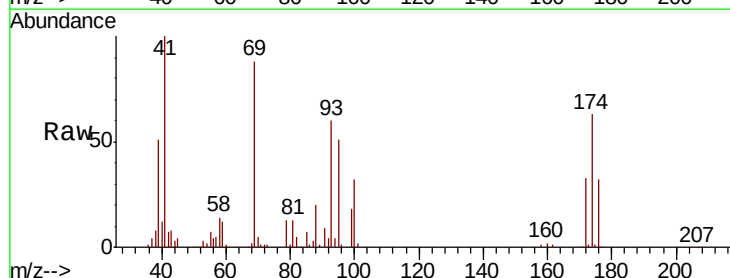
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

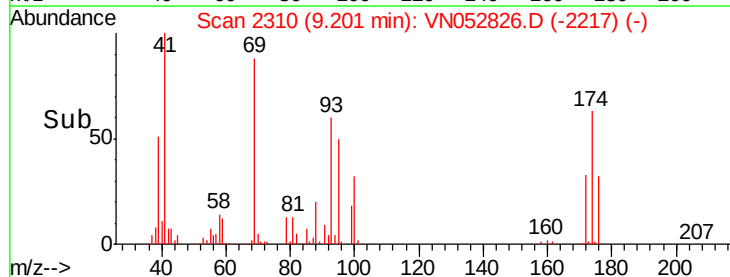
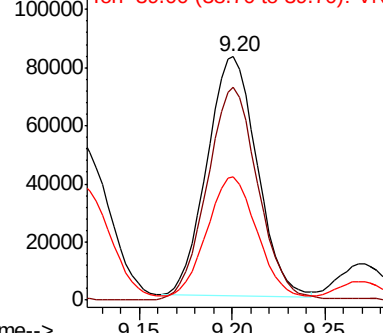
Lab File: VN052826.D

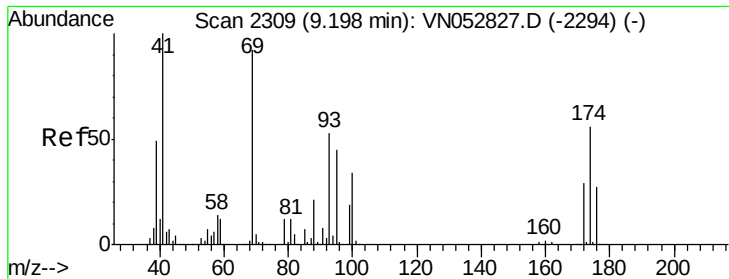
Acq: 12 Dec 2018 14:45

Tgt Ion:	41	Resp:	154361
Ion Ratio	Lower	Upper	
41	100		
69	90.2	72.2	108.2
39	52.3	41.9	62.9



Abundance Ion 41.00 (40.70 to 41.70): VN052826.D (-2217) (-)





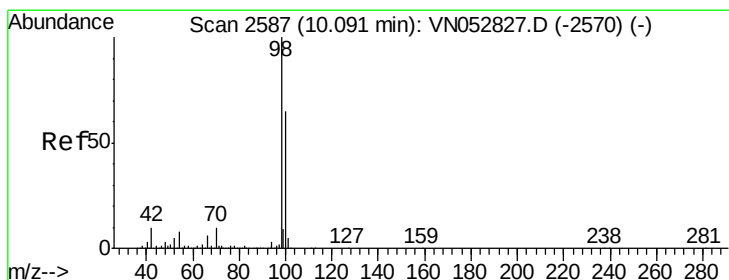
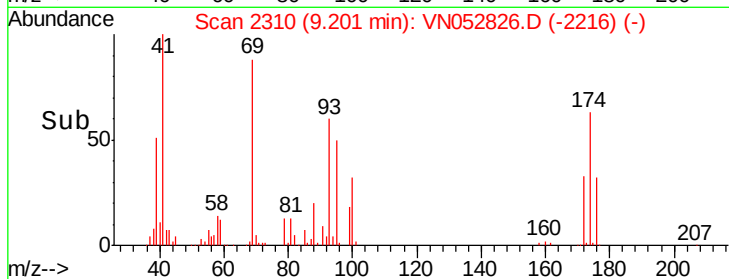
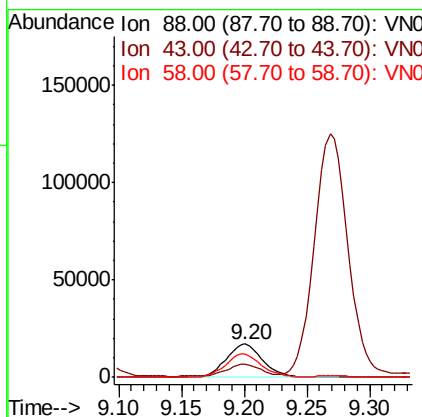
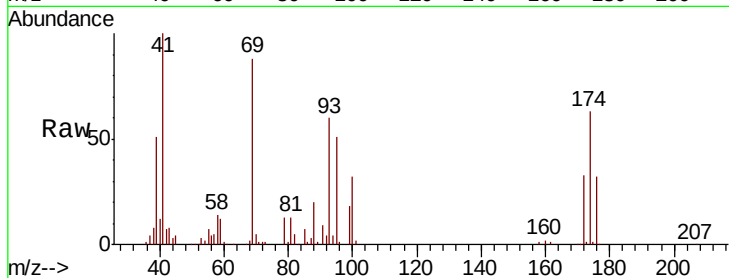
#49
1,4-Dioxane
Concen: 405.191 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	34681
Ion	Ratio	Lower	Upper
88	100		
43	34.8	26.6	40.0
58	69.6	58.4	87.6

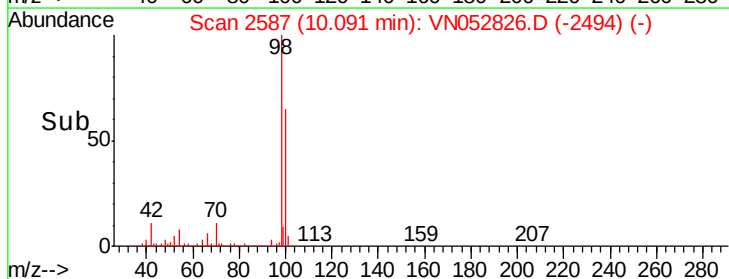
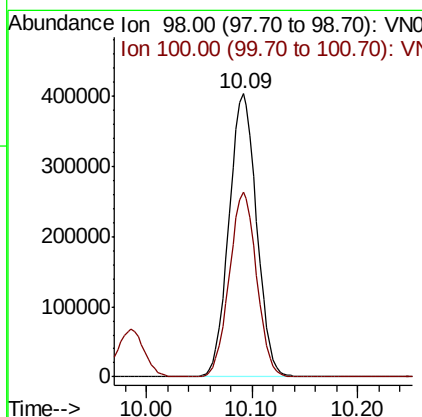
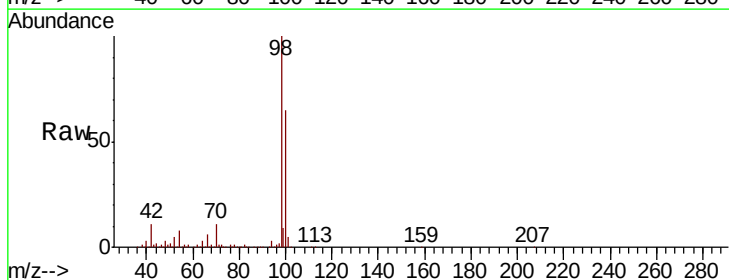
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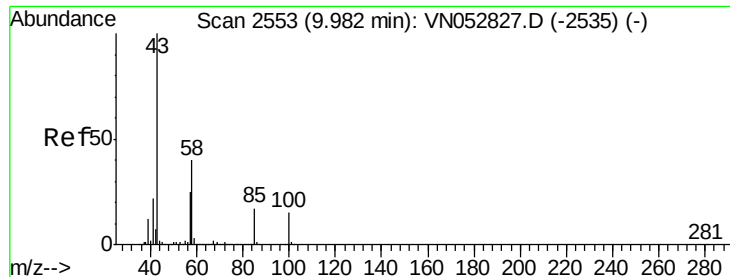
MMDadoda
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#50
Toluene-d8
Concen: 405.191 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	98	Resp	731472
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4





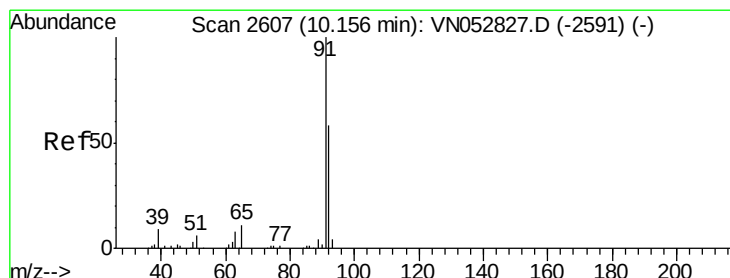
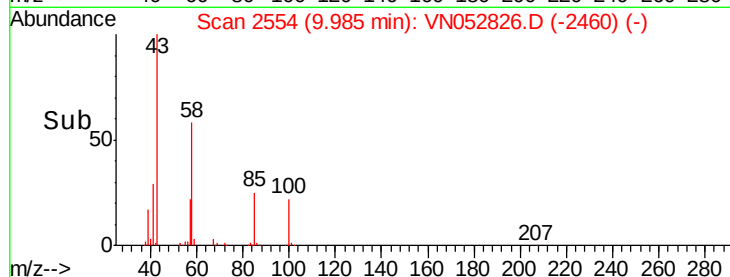
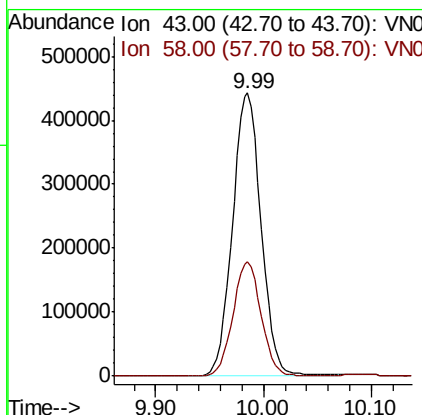
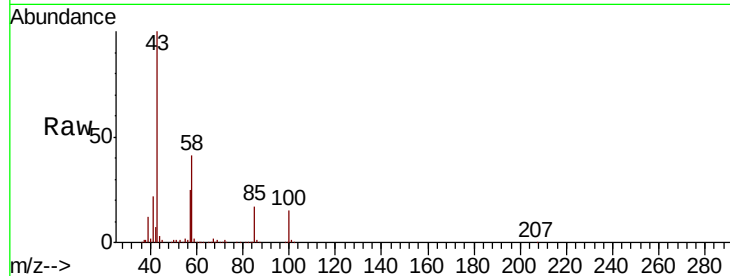
#51
4-Methyl-2-Pentanone
Concen: 103.432 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.0	32.2	48.4

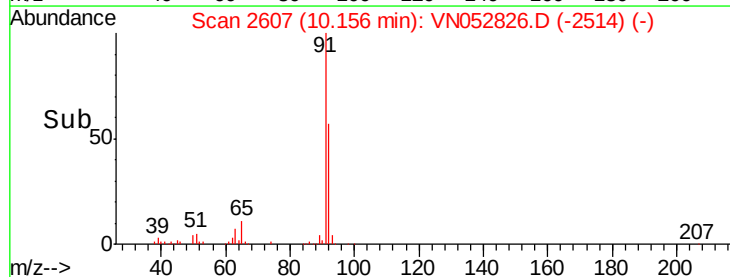
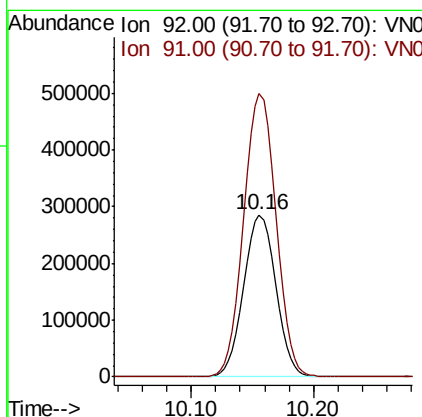
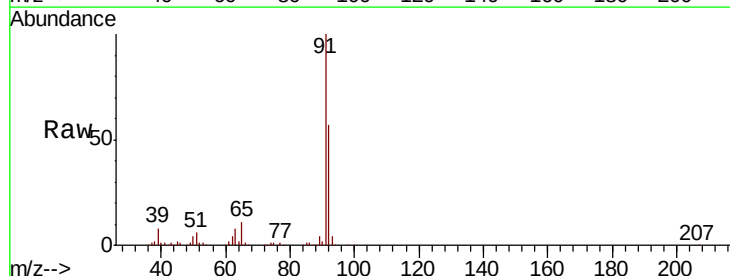
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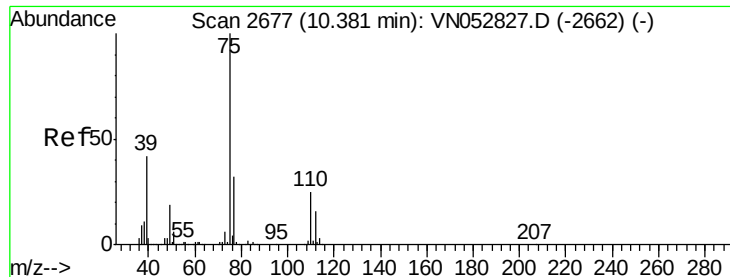
MMDadoda
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#52
Toluene
Concen: 20.516 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.4	139.8	209.6





#53

t-1,3-Dichloropropene

Concen: 19.978 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 265329

Ion Ratio Lower Upper

75 100

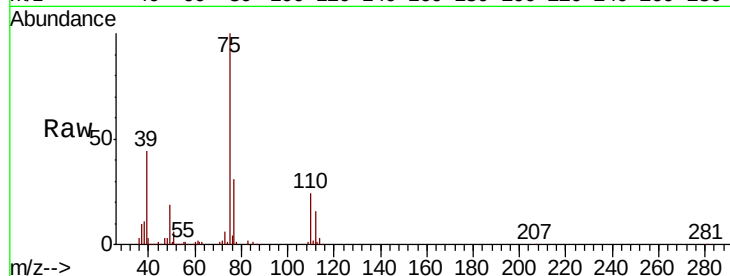
77 31.3 25.6 38.4

Manual Integrations

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

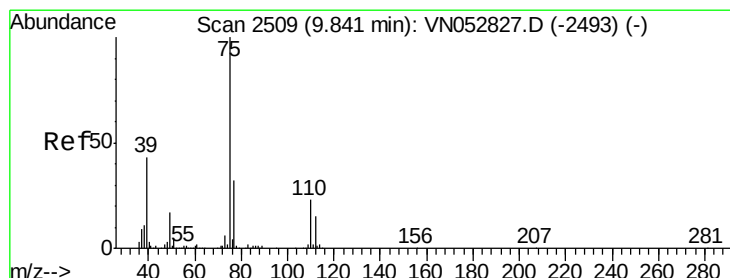
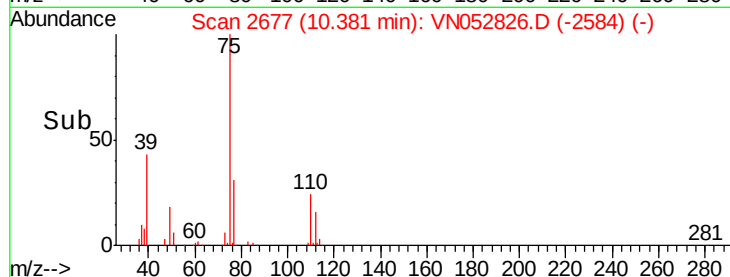
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.122 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

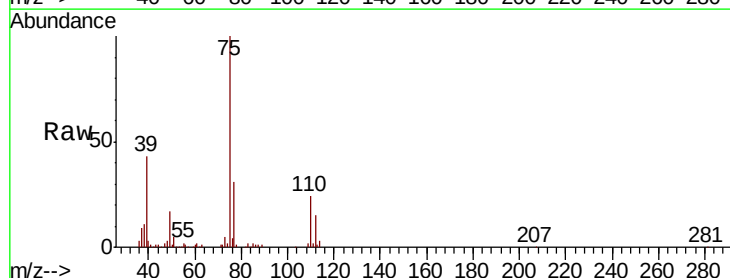
Tgt Ion: 75 Resp: 318463

Ion Ratio Lower Upper

75 100

77 31.2 25.8 38.8

39 43.4 34.8 52.2



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

9.84

200000

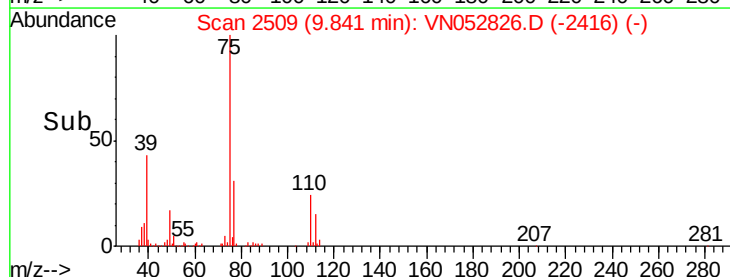
150000

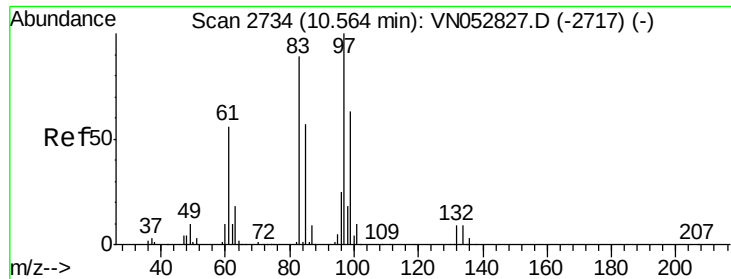
100000

50000

0

Time-->





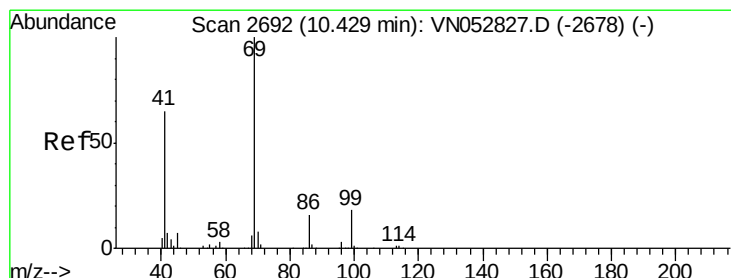
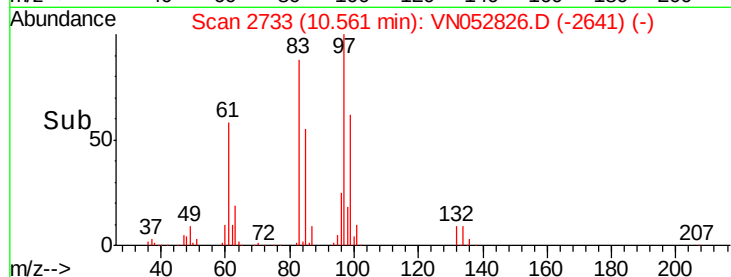
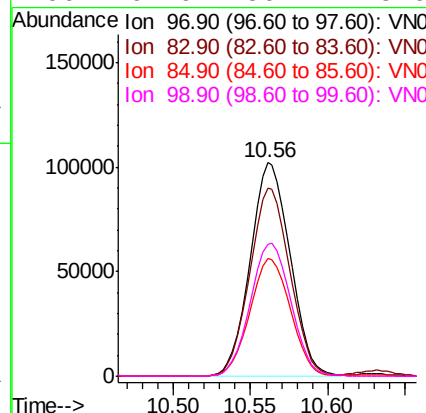
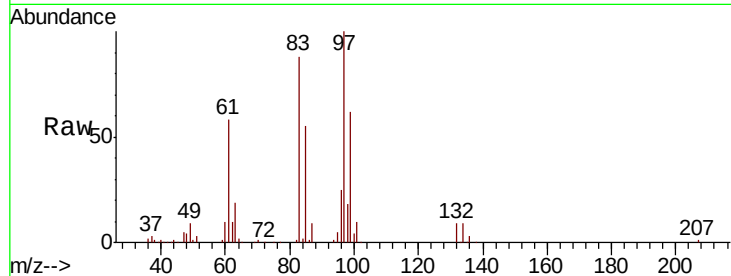
#55
 1,1,2-Trichloroethane
 Concen: 20.320 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	184075
Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.9	106.3
85	54.9	45.4	68.2
99	61.9	50.4	75.6

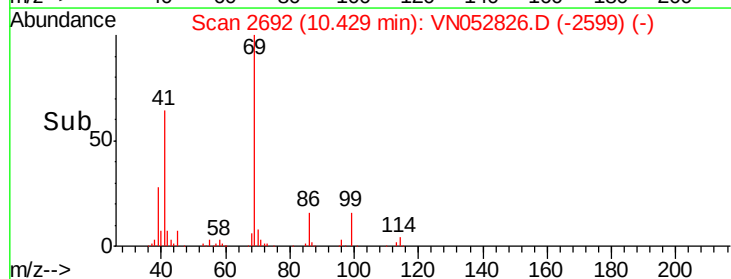
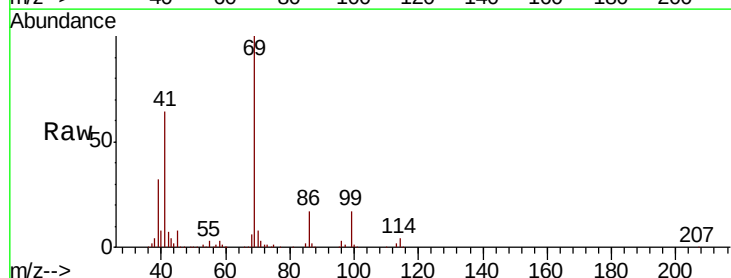
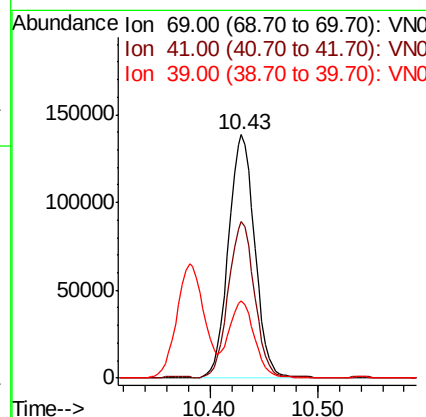
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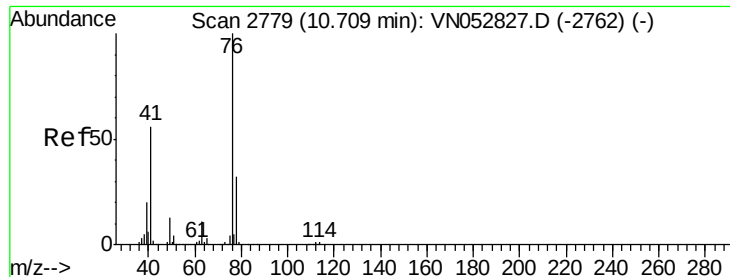
MMDadoda
 12/13/2018 1:36:07 PM



#56
 Ethyl methacrylate
 Concen: 20.241 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion:	69	Resp:	235319
Ion	Ratio	Lower	Upper
69	100		
41	63.4	51.7	77.5
39	31.2	24.6	37.0





#57

1,3-Dichloropropane

Concen: 20.328 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 315783

Ion Ratio Lower Upper

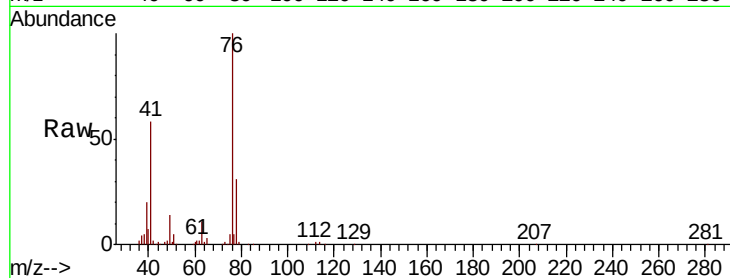
76 100

78 31.7 25.8 38.8

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MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

200000

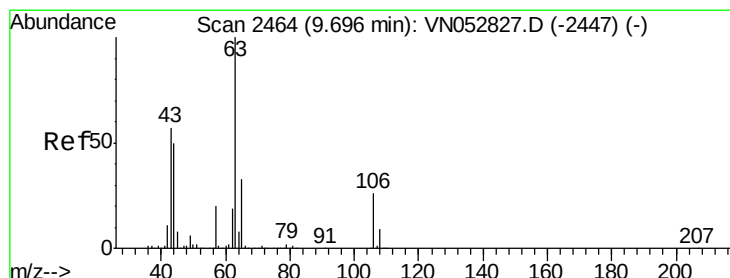
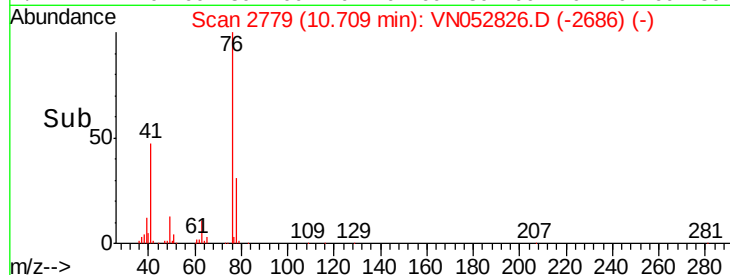
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 101.632 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052826.D

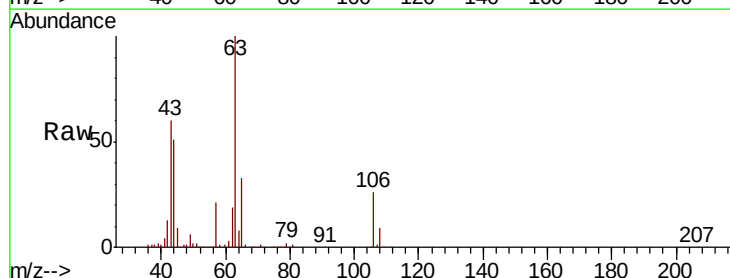
Acq: 12 Dec 2018 14:45

Tgt Ion: 63 Resp: 659276

Ion Ratio Lower Upper

63 100

106 26.4 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

400000

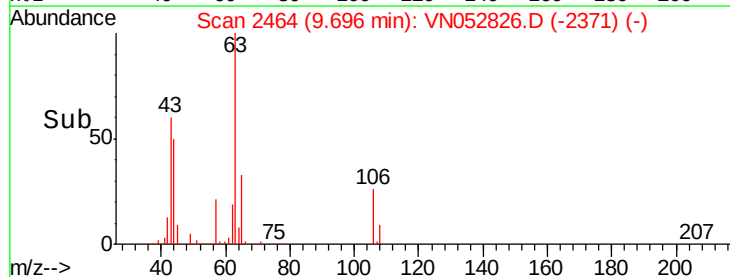
300000

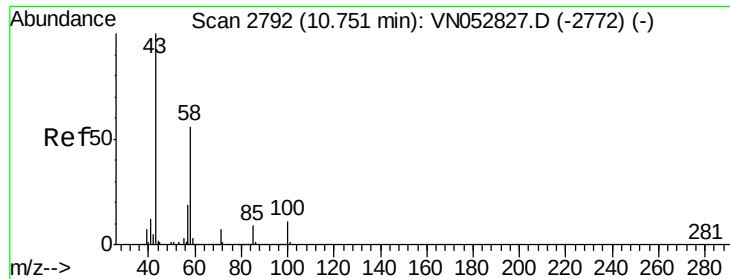
200000

100000

0

Time--> 9.60 9.70 9.80





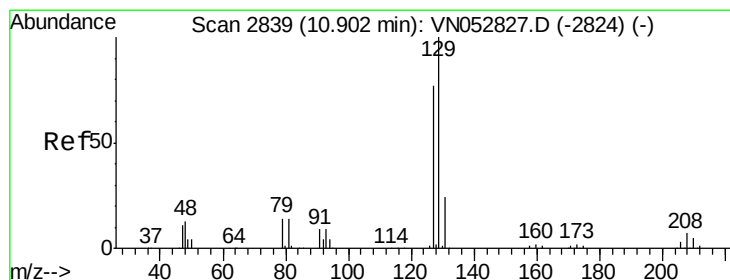
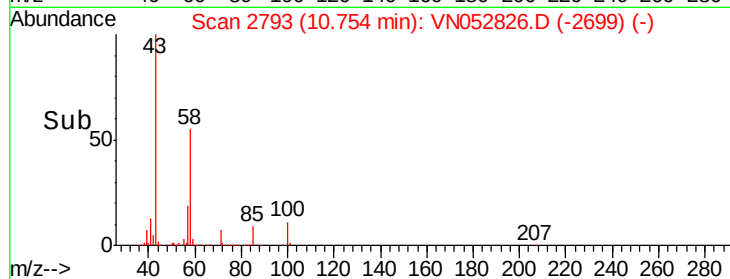
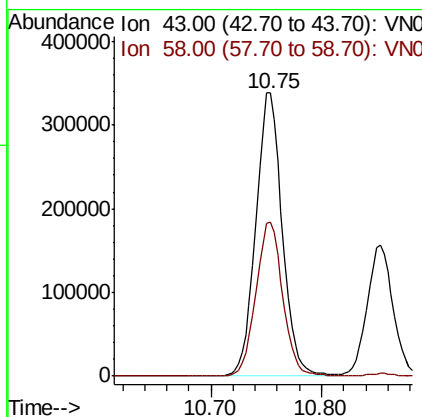
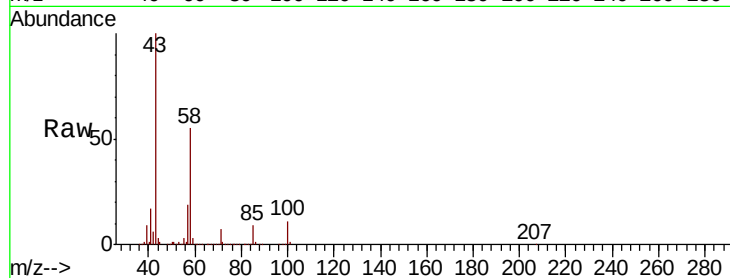
#59
2-Hexanone
Concen: 103.575 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	28.1	84.3

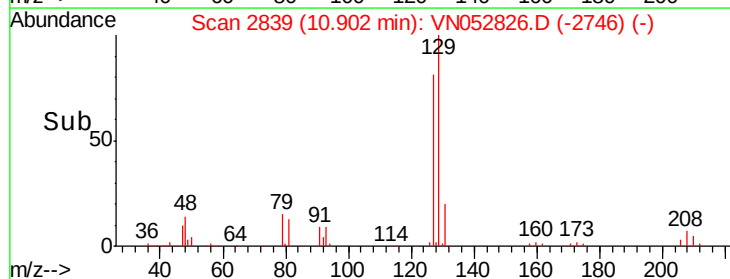
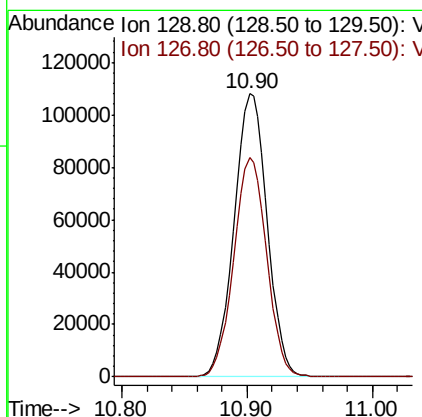
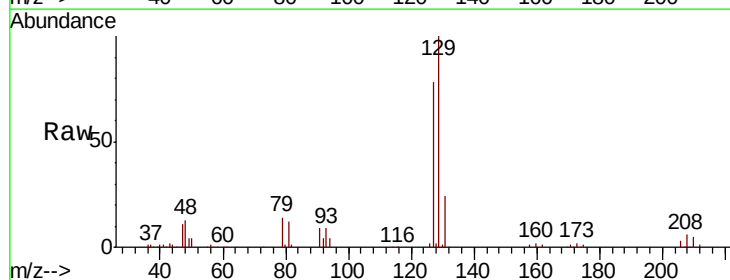
Manual Integrations
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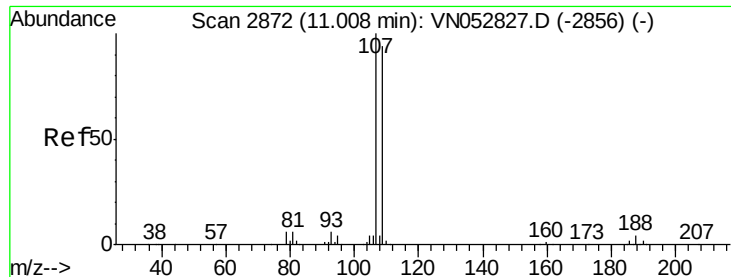
MMDadoda
12/13/2018 1:36:07 PM



#60
Dibromochloromethane
Concen: 20.245 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	116.0





#61

1,2-Dibromoethane

Concen: 20.321 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 181966

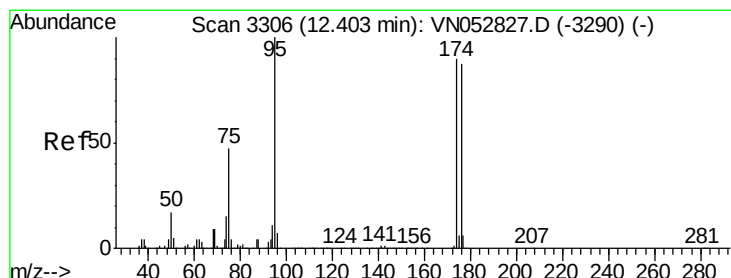
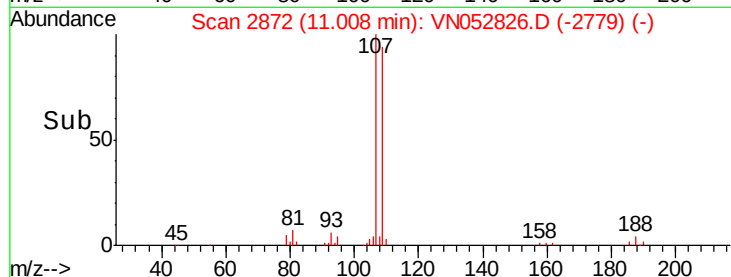
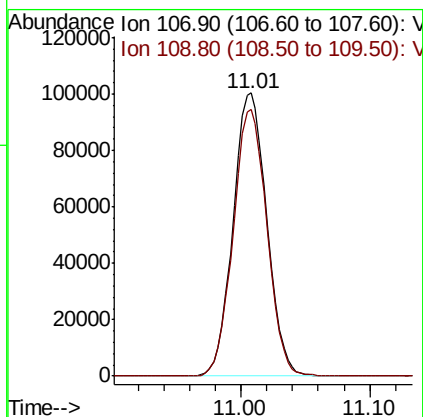
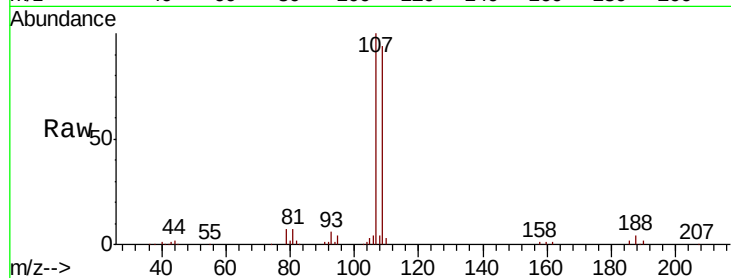
Ion Ratio Lower Upper

107 100

109 94.5 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
12/13/2018 1:36:07 PM



#62

4-Bromofluorobenzene

Concen: 20.321 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

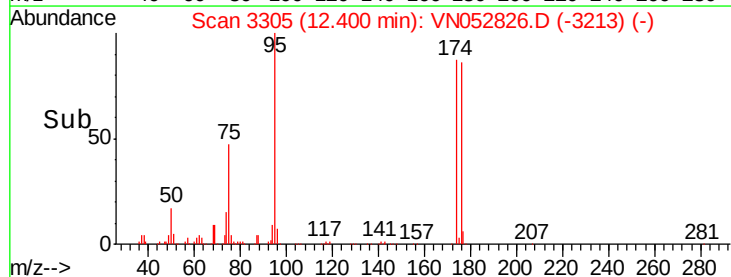
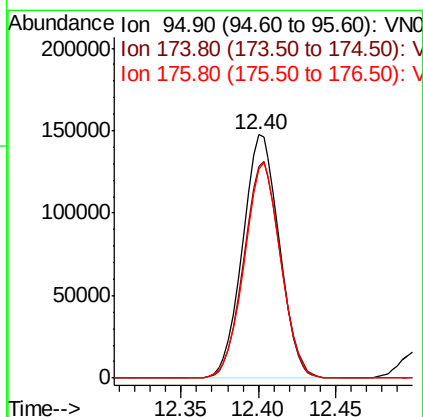
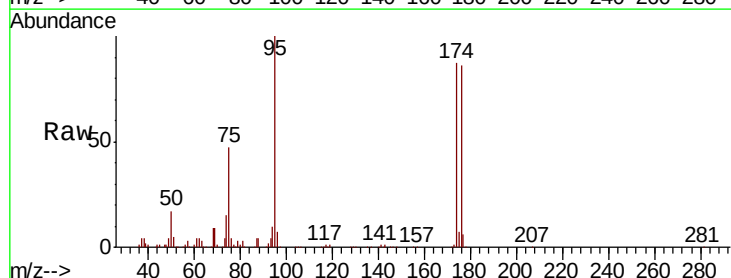
Tgt Ion: 95 Resp: 243443

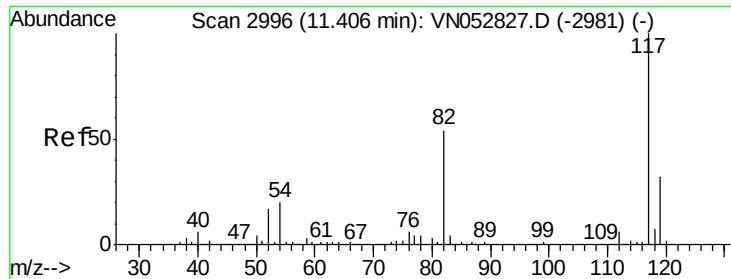
Ion Ratio Lower Upper

95 100

174 89.3 0.0 178.8

176 87.6 0.0 173.8





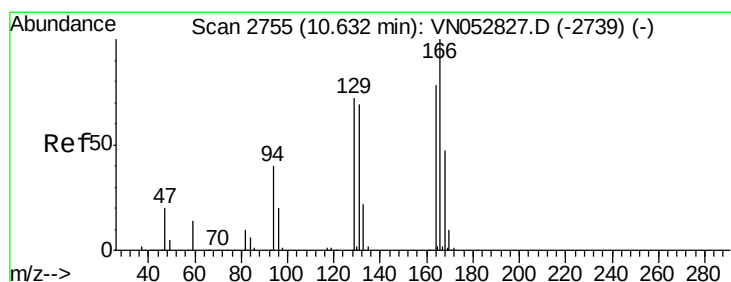
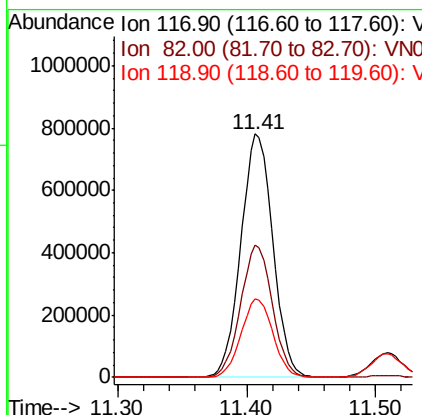
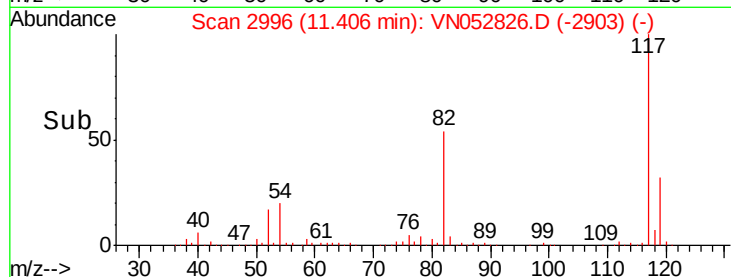
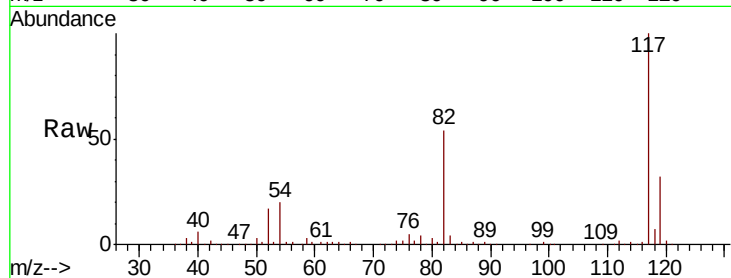
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 1350161
Ion Ratio Lower Upper
117 100
82 54.2 42.8 64.2
119 32.2 25.5 38.3

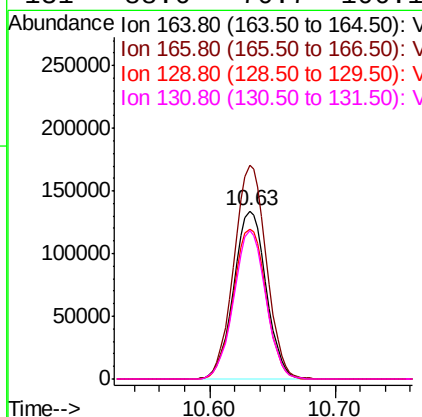
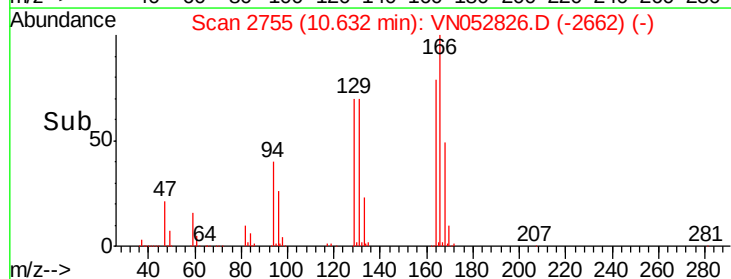
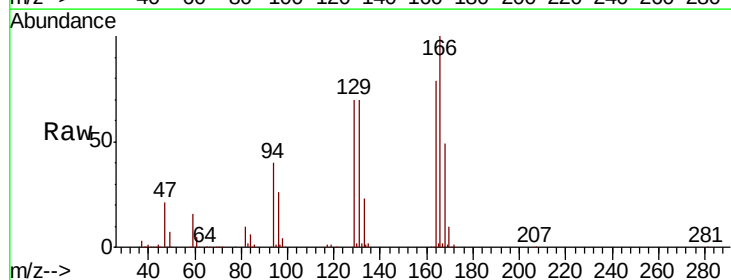
Manual Integrations
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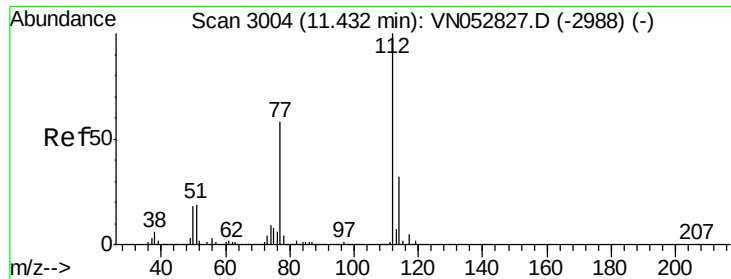
MMDadoda
12/13/2018 1:36:07 PM



#64
Tetrachloroethene
Concen: 20.750 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion:164 Resp: 240793
Ion Ratio Lower Upper
164 100
166 127.4 102.9 154.3
129 89.7 73.7 110.5
131 88.6 70.7 106.1





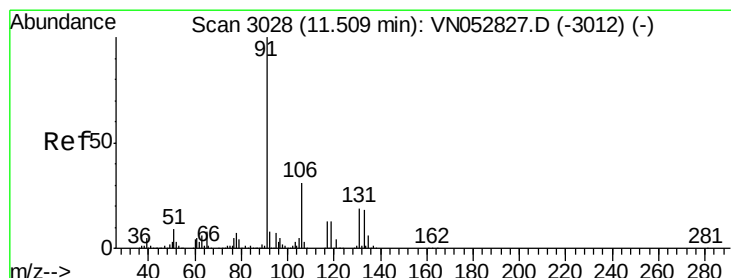
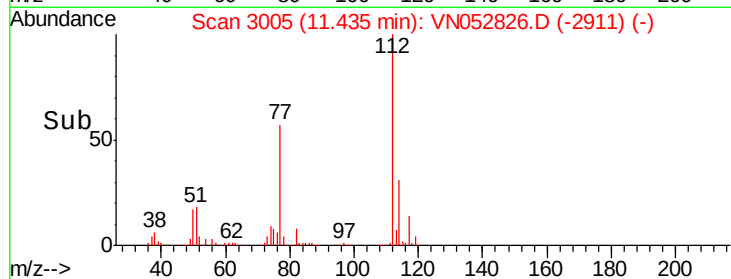
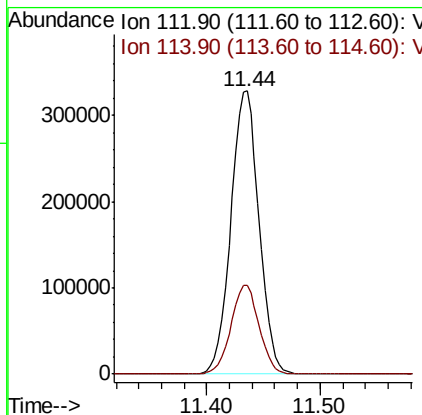
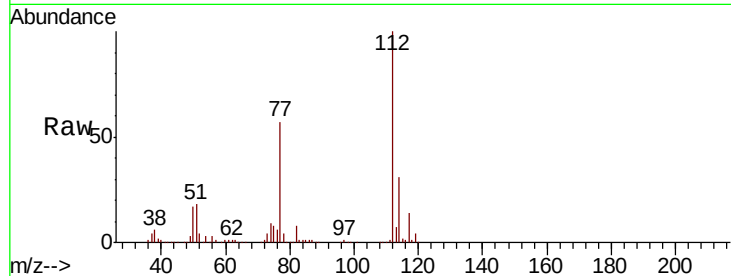
#65
Chlorobenzene
Concen: 20.261 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
112	100	567539		
114	31.4	25.5	38.3	

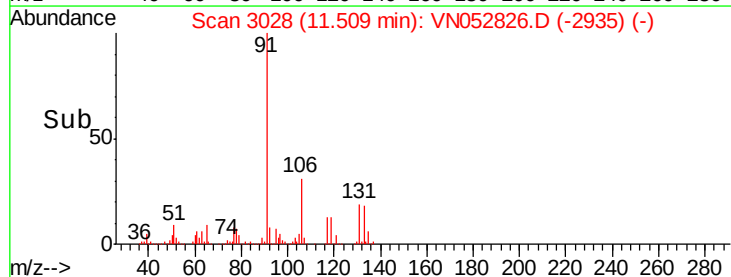
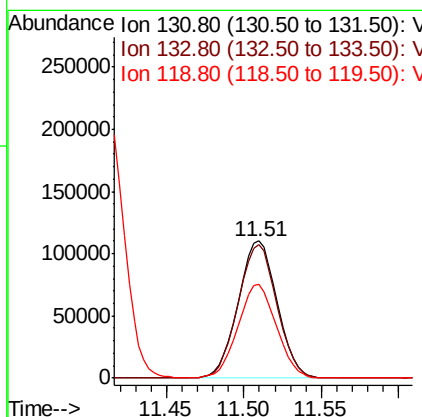
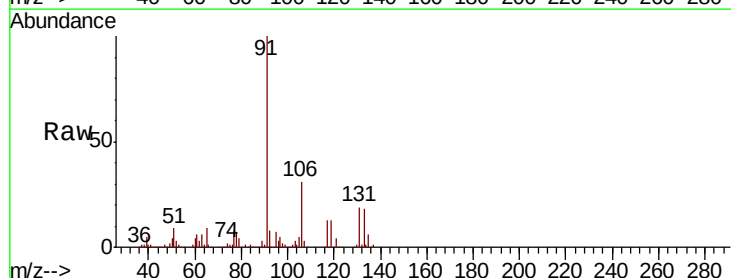
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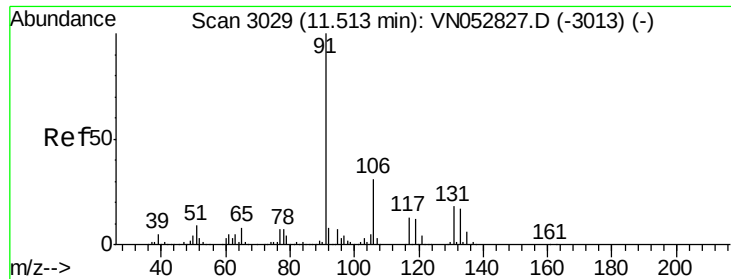
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.802 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	192911		
133	97.3	47.6	142.9	
119	67.7	33.3	99.8	





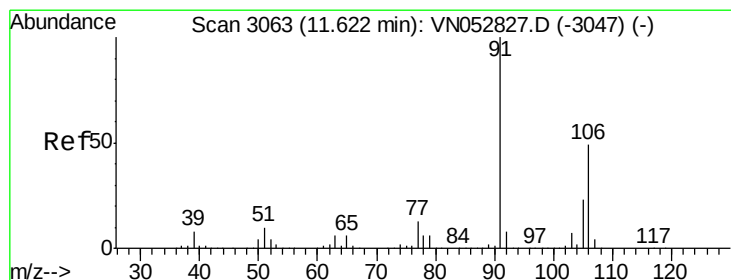
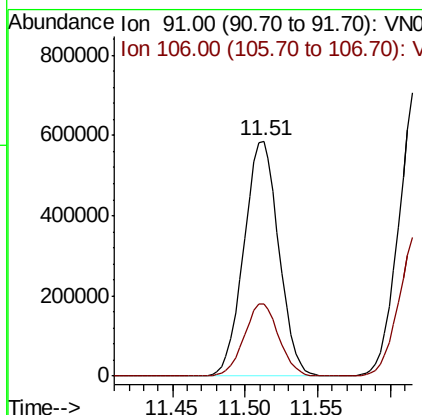
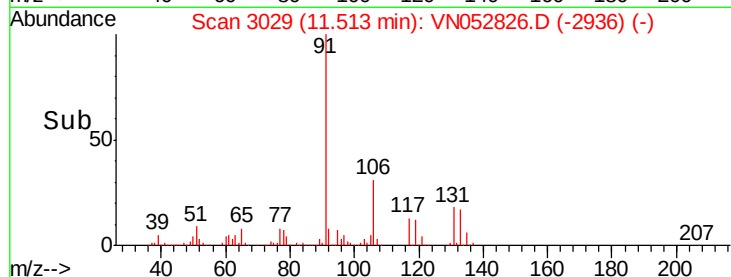
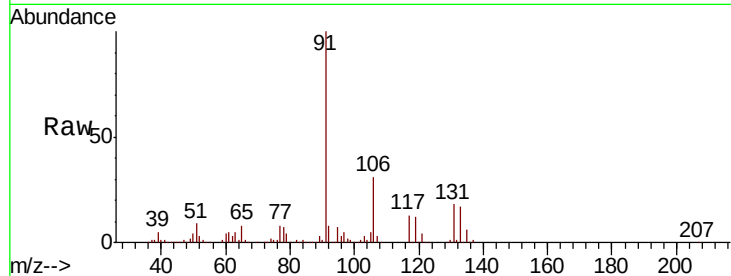
#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	91	Resp	981878
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.9	37.3

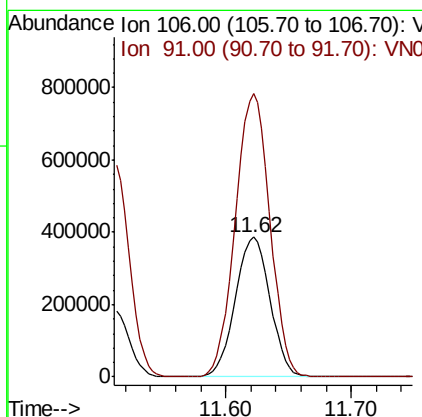
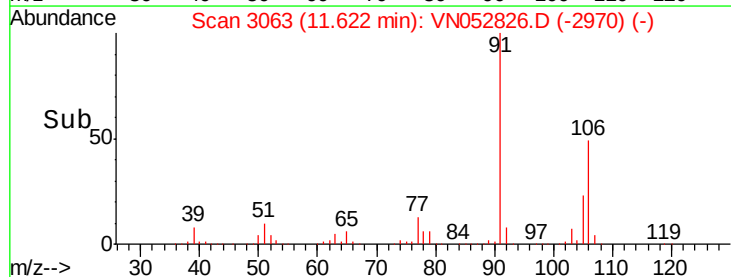
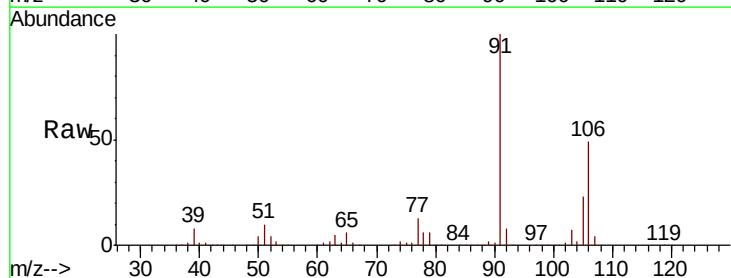
Manual Integrations
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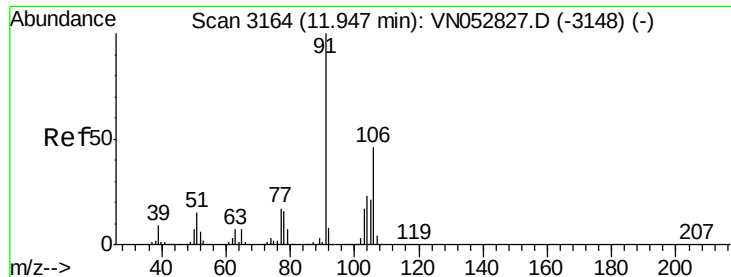
MMDadoda
12/13/2018 1:36:07 PM



#68
m/p-Xylenes
Concen: 41.090 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	106	Resp	742180
Ion	Ratio	Lower	Upper
106	100		
91	202.1	162.2	243.4





#69

o-Xylene

Concen: 20.407 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:106 Resp: 359926

Ion Ratio Lower Upper

106 100

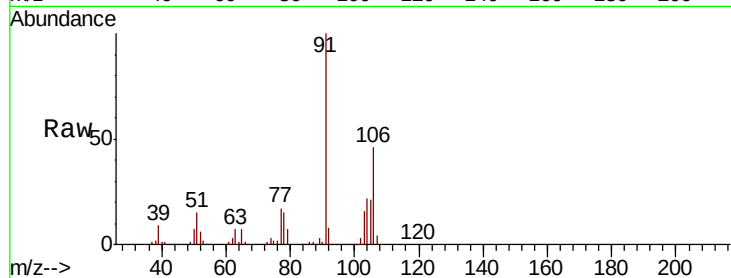
91 214.5 106.6 319.8

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

500000

400000

300000

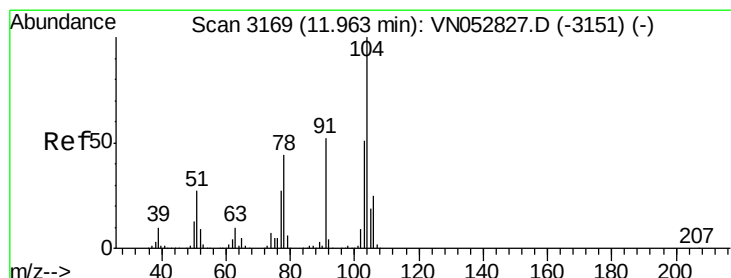
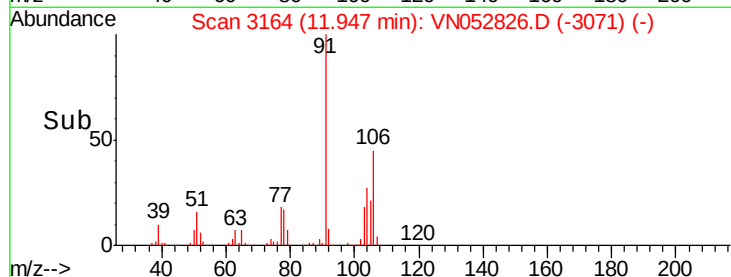
200000

100000

0

11.90 11.95 12.00

Time-->



#70

Styrene

Concen: 20.511 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

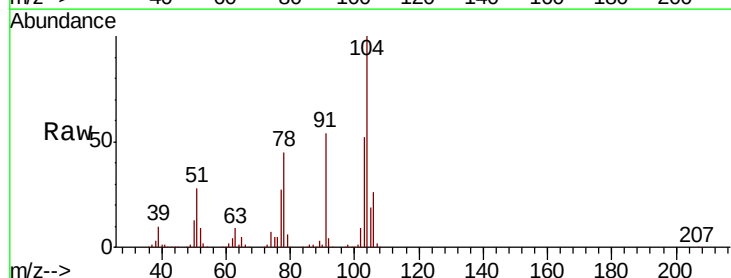
Tgt Ion:104 Resp: 581543

Ion Ratio Lower Upper

104 100

78 48.8 38.9 58.3

103 56.2 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

400000

300000

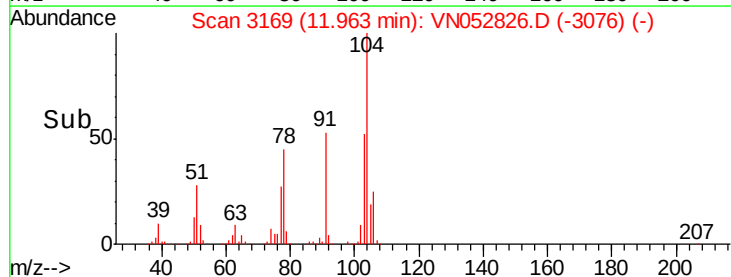
200000

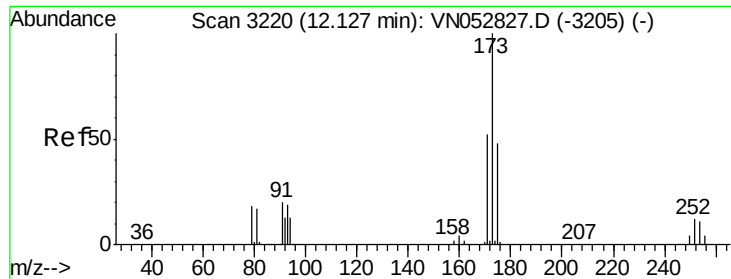
100000

0

11.90 11.96 12.00

Time-->





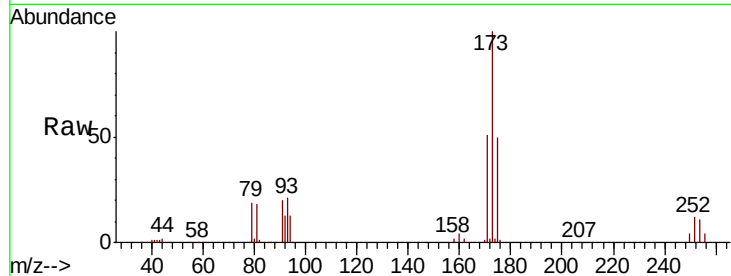
#71
Bromoform
Concen: 19.902 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.3	72.9
254	0.1	0.1	0.1

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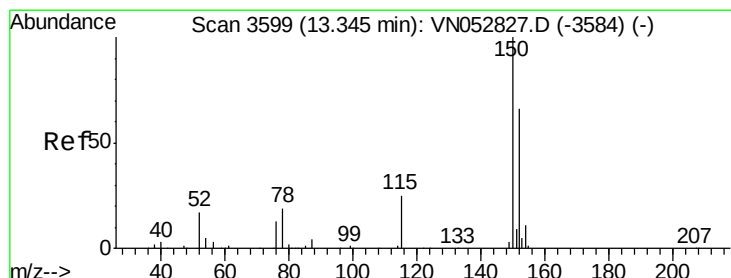
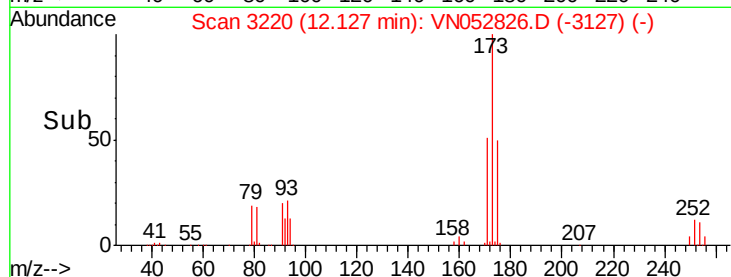
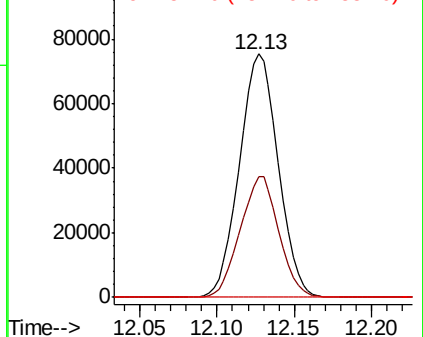


Abundance

Ion 172.70 (172.40 to 173.40): V

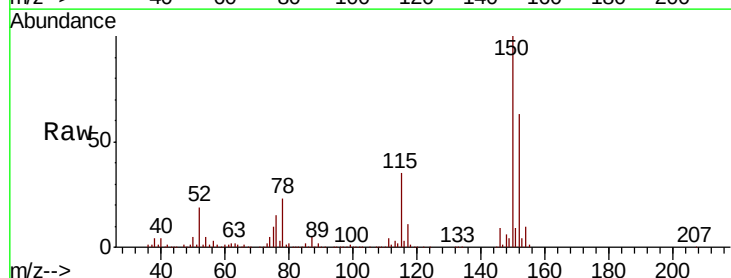
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.3	85.0
150	164.1	0.0	347.8

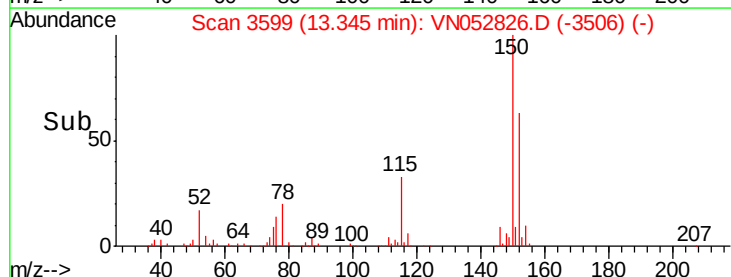
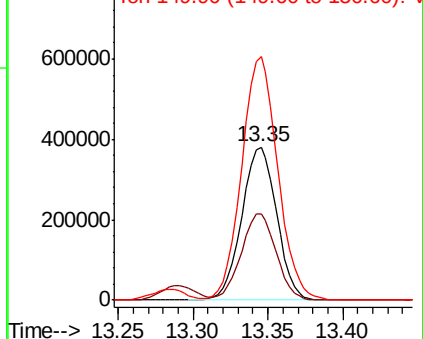


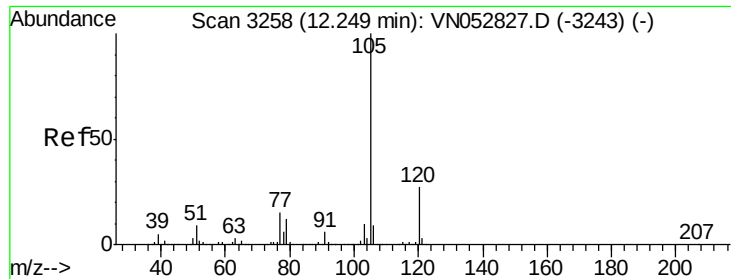
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





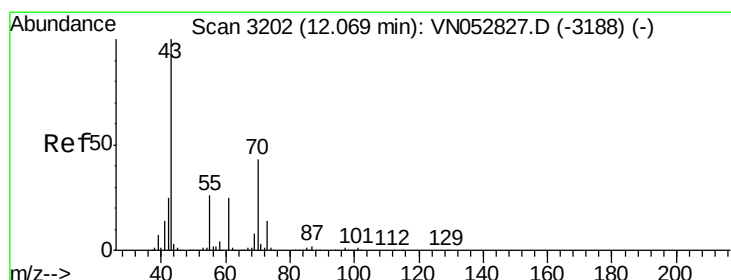
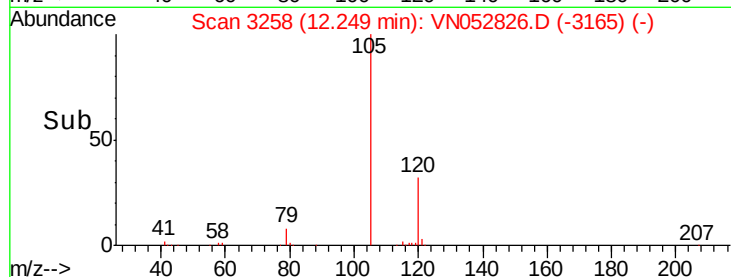
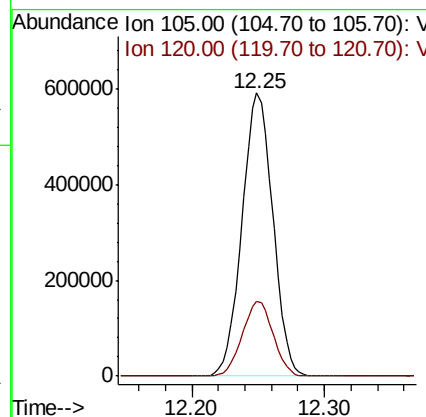
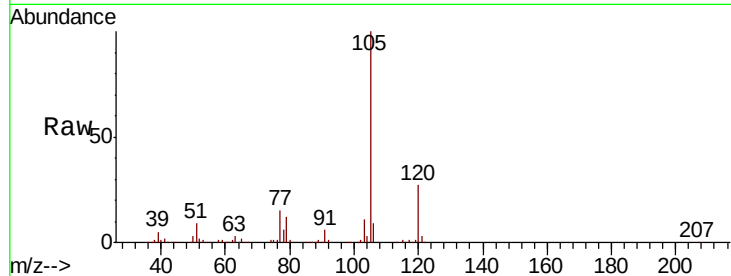
#73
Isopropylbenzene
Concen: 20.611 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.9

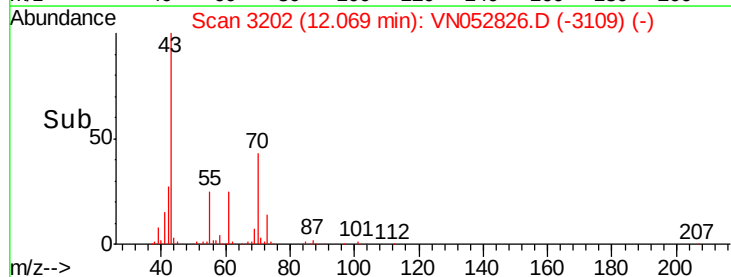
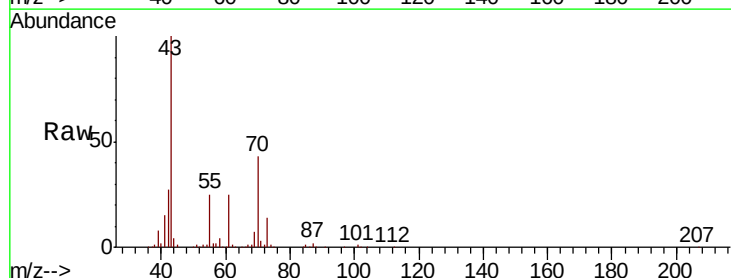
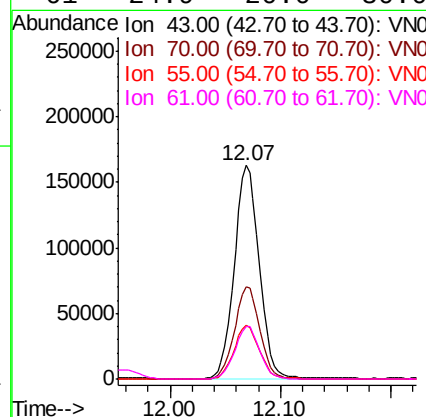
Manual Integrations
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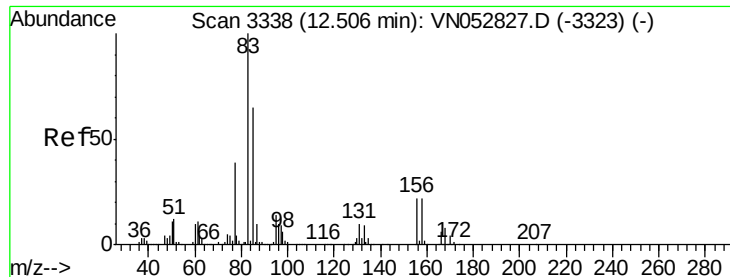
MMDadoda
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#74
N-ethyl acetate
Concen: 19.998 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.7	34.2	51.4
55	26.0	20.3	30.5
61	24.9	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.177 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

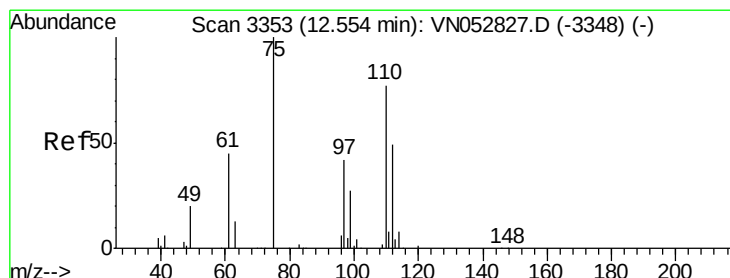
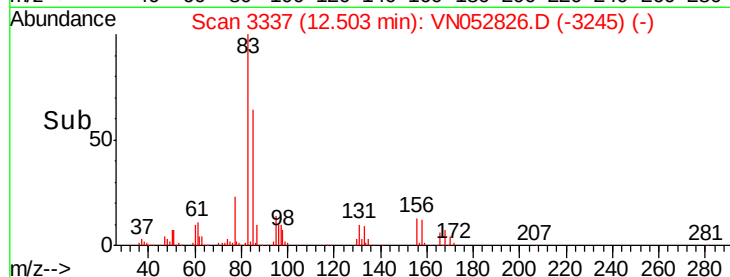
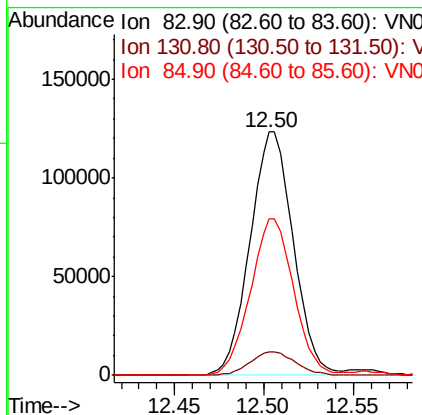
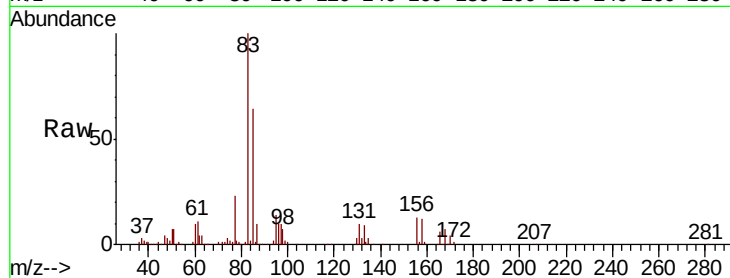
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	208913
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.2	15.6
85	64.3	32.4	97.0

Manual Integrations
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12/13/2018 1:36:07 PM



#76

1,2,3-Trichloropropane

Concen: 17.906 ug/l m

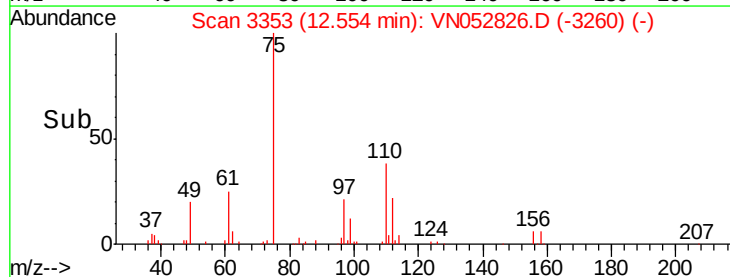
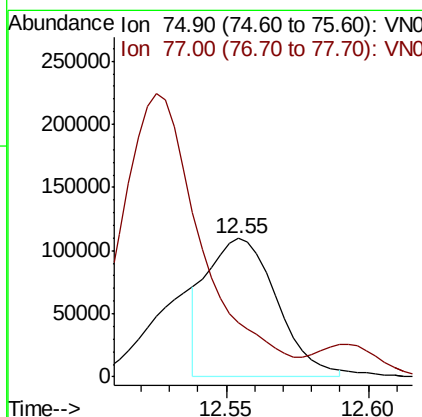
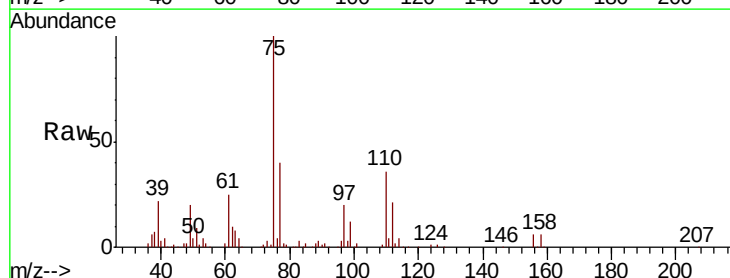
RT: 12.55 min Scan# 3353

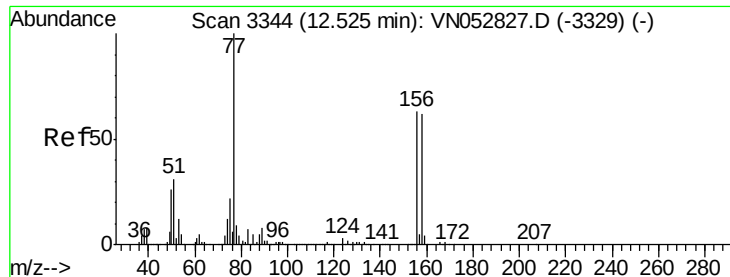
Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Tgt Ion:	75	Resp:	184800
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.508 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

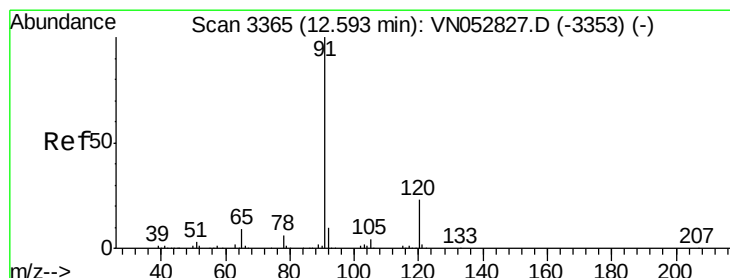
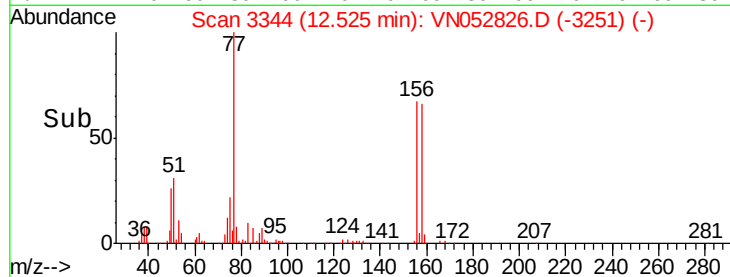
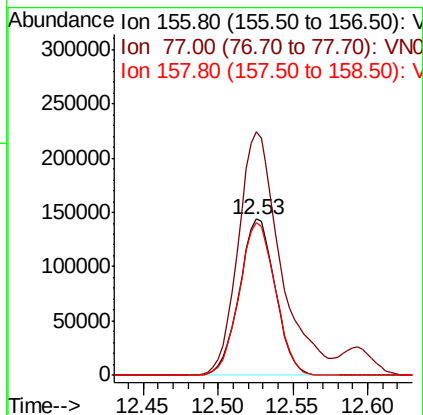
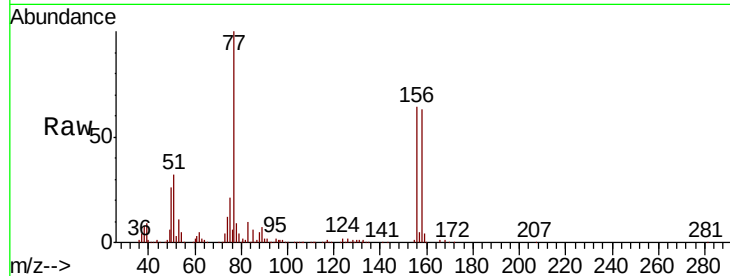
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	240982
Ion Ratio	Lower	Upper	
156	100		
77	183.5	91.3	273.8
158	98.3	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 20.620 ug/l

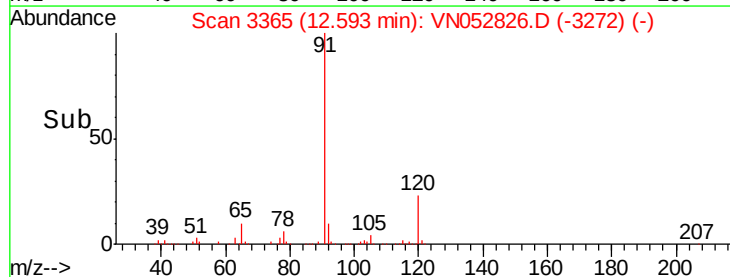
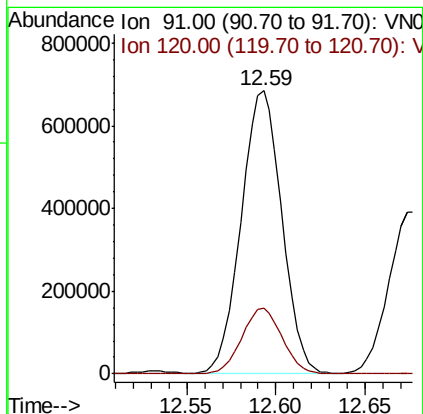
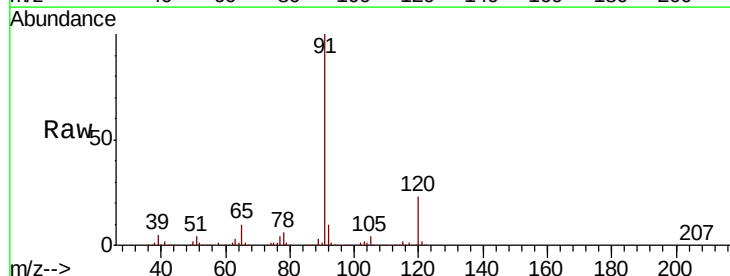
RT: 12.59 min Scan# 3365

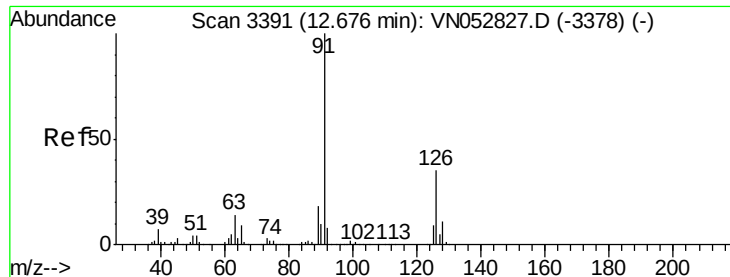
Delta R.T. 0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Tgt Ion:	91	Resp:	1086460
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.5	34.5





#79

2-Chlorotoluene

Concen: 20.747 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052826.D

Acq: 12 Dec 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 646276

Ion Ratio Lower Upper

91 100

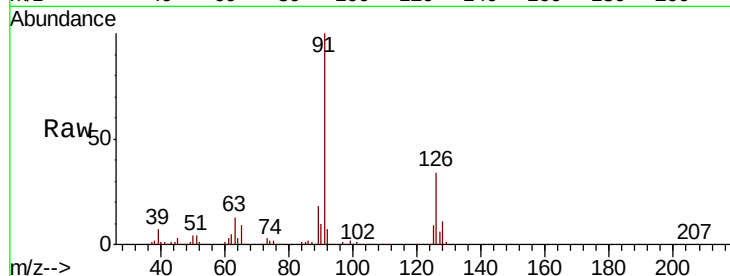
126 34.6 17.4 52.3

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Abundance Ion 91.00 (90.70 to 91.70): VN052827.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052827.D (-3378) (-)

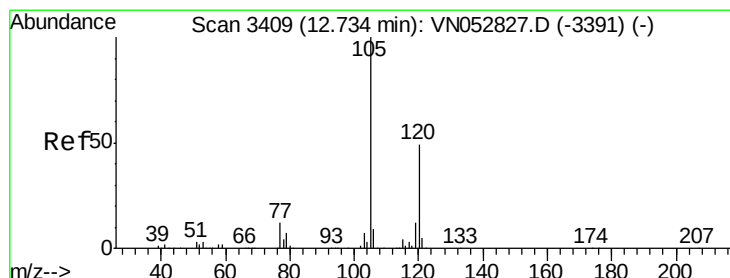
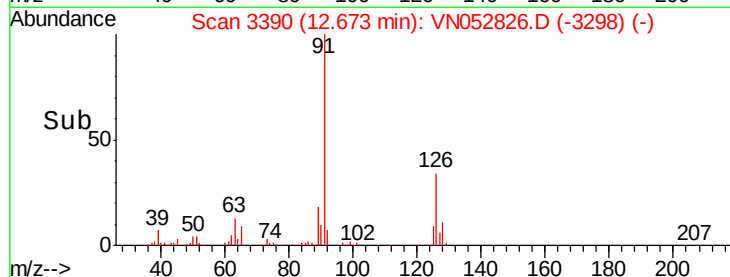
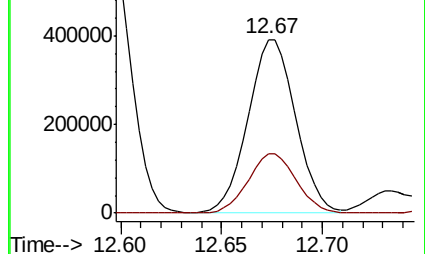
600000

400000

200000

0

12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 20.949 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052826.D

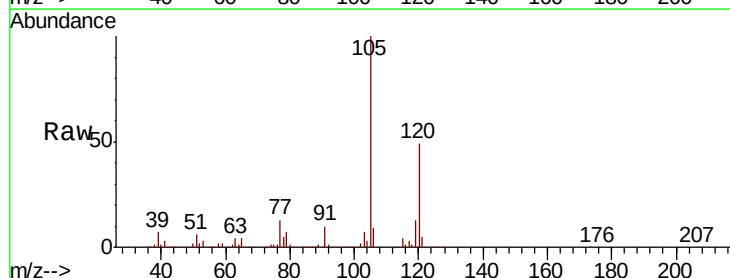
Acq: 12 Dec 2018 14:45

Tgt Ion: 105 Resp: 781312

Ion Ratio Lower Upper

105 100

120 49.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052827.D (-3391) (-)

500000

400000

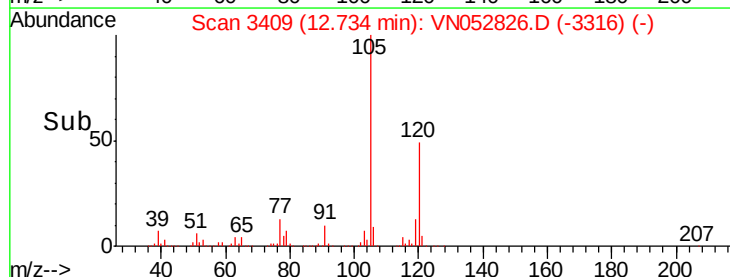
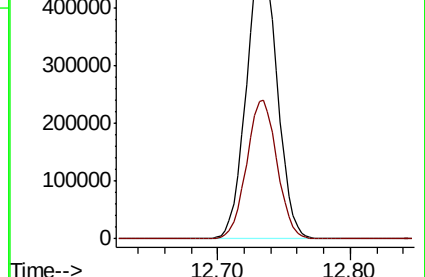
300000

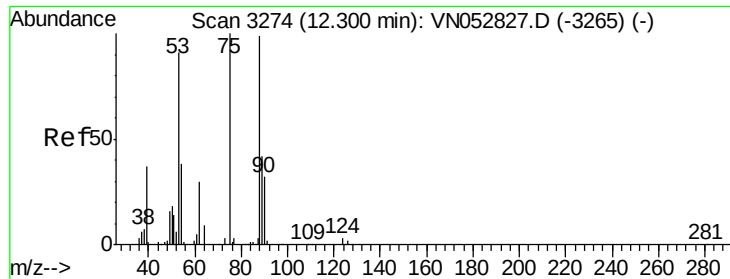
200000

100000

0

12.70 12.80





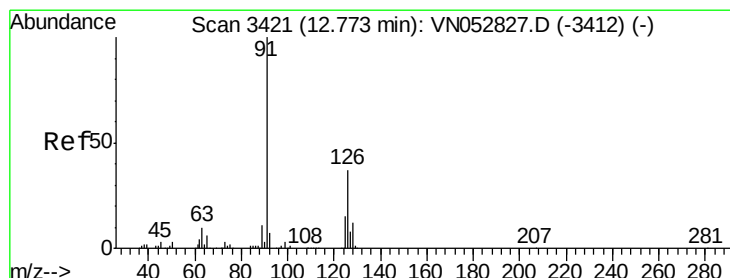
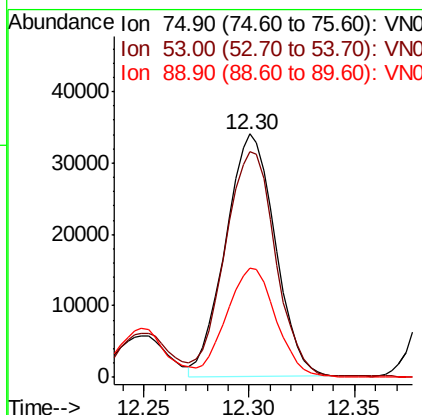
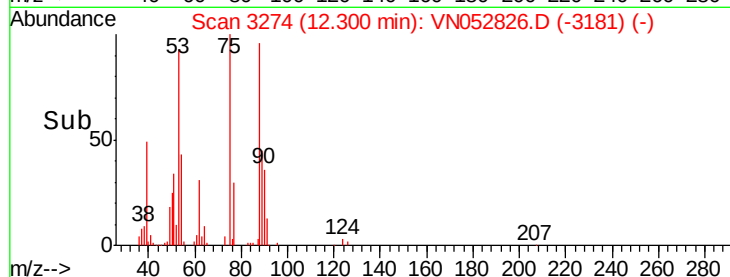
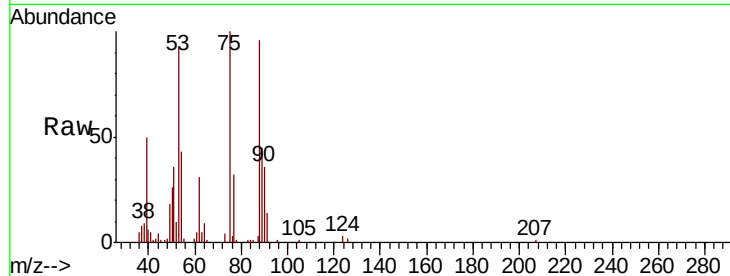
#81
trans-1,4-Dichloro-2-butene
Concen: 19.456 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.1	74.7	112.1
89	45.0	36.1	54.1

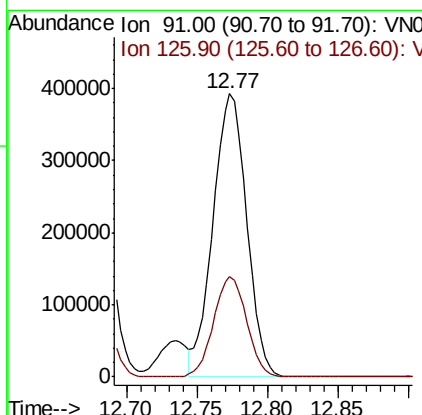
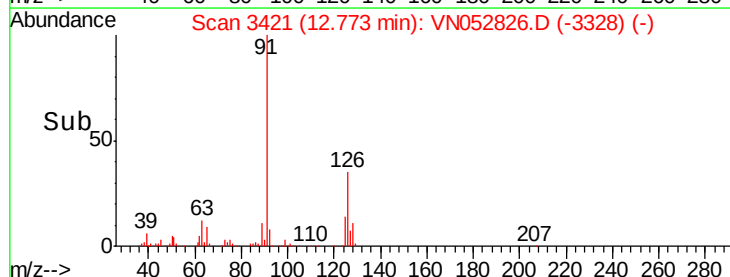
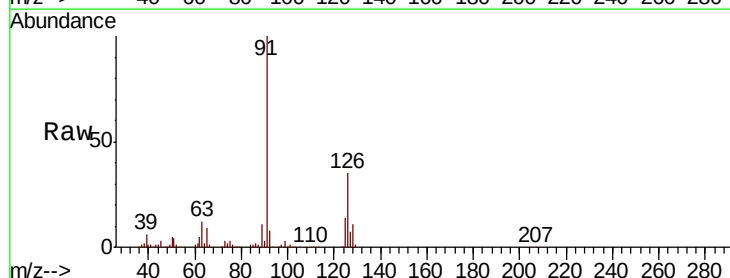
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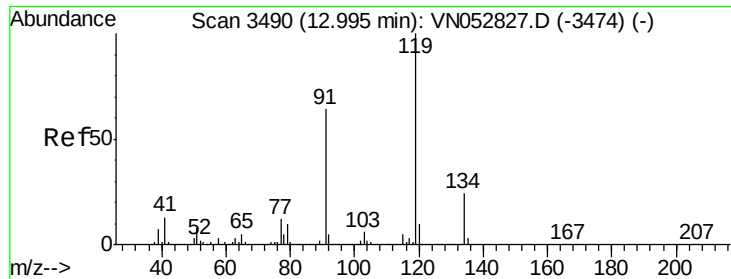
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.418 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	51.7





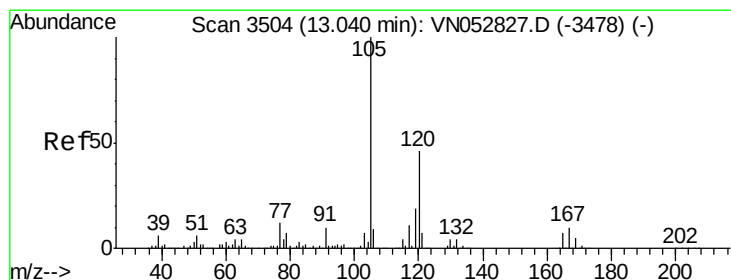
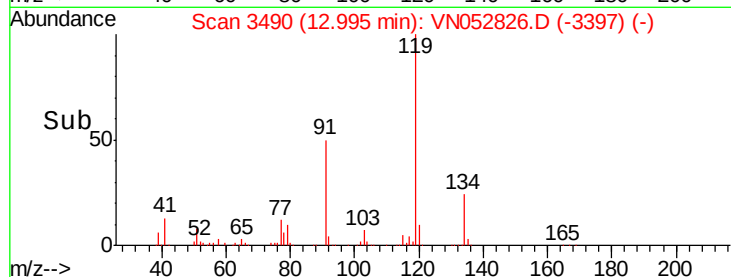
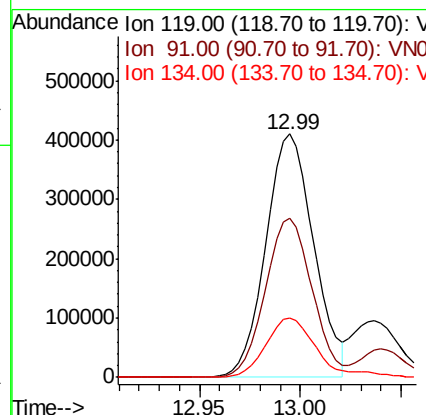
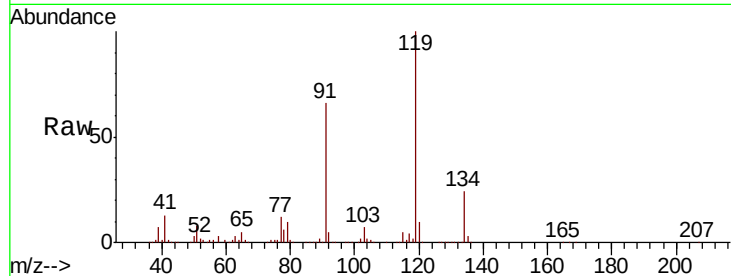
#83
tert-Butylbenzene
Concen: 20.643 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.1	31.9	95.5
134	25.9	12.8	38.4

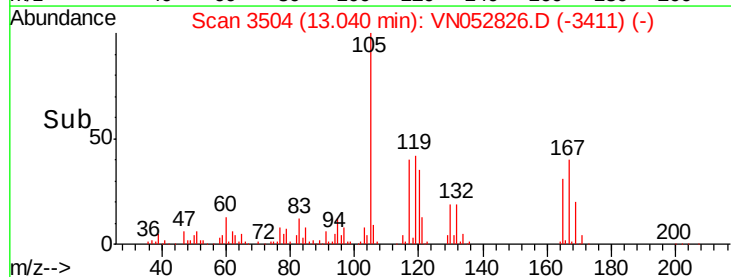
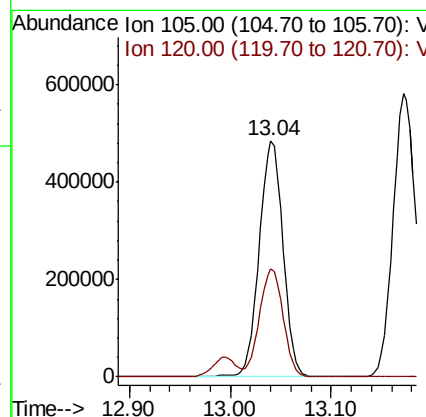
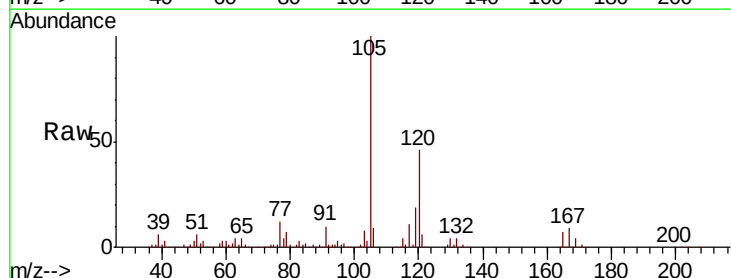
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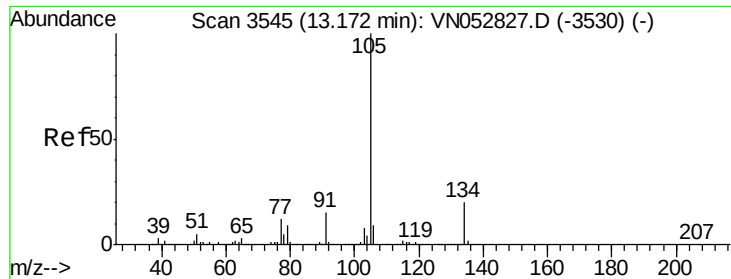
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.857 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.9	68.8





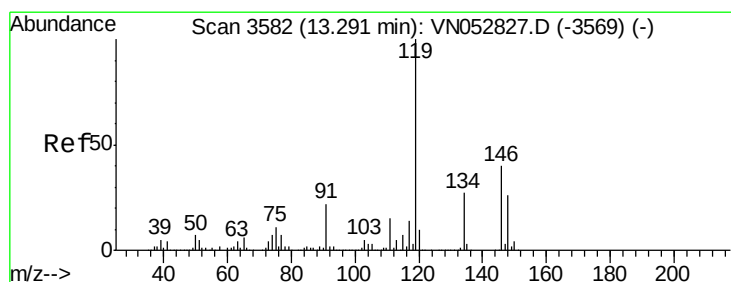
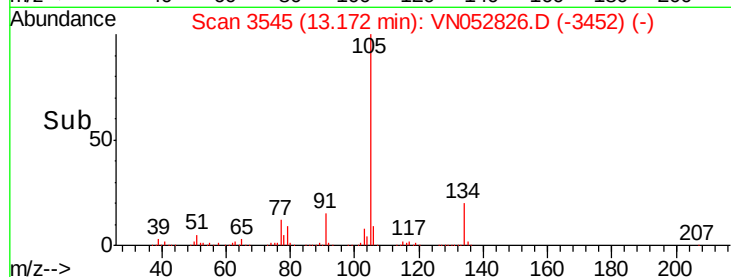
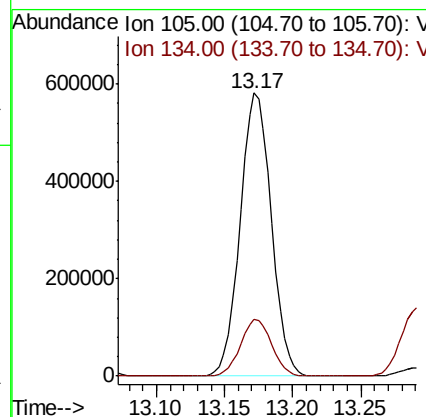
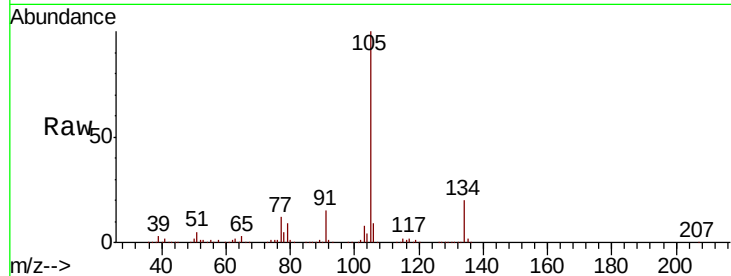
#85
 sec-Butylbenzene
 Concen: 20.681 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.3

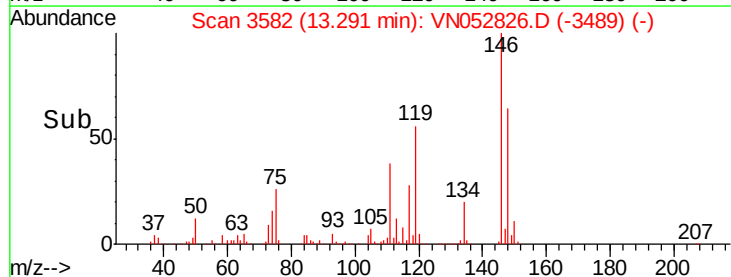
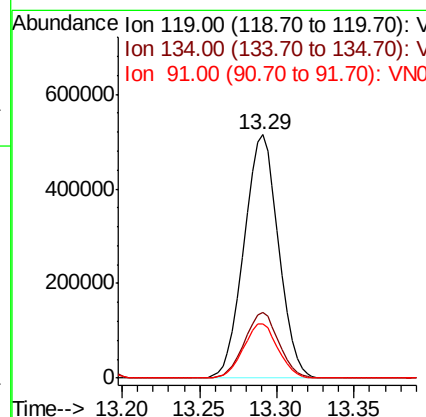
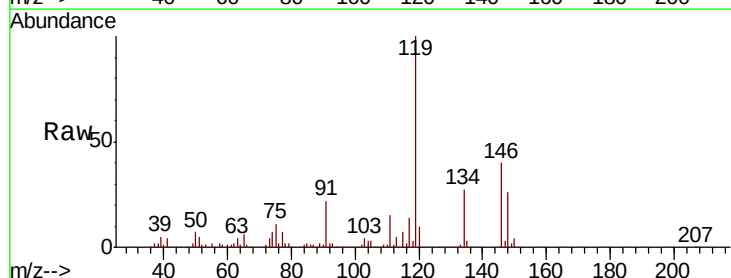
Manual Integrations
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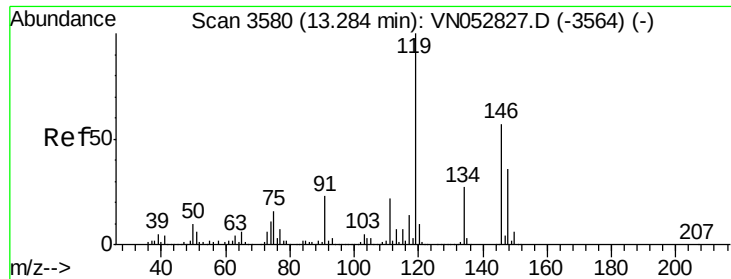
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 20.594 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.4	40.2
91	22.3	11.1	33.3





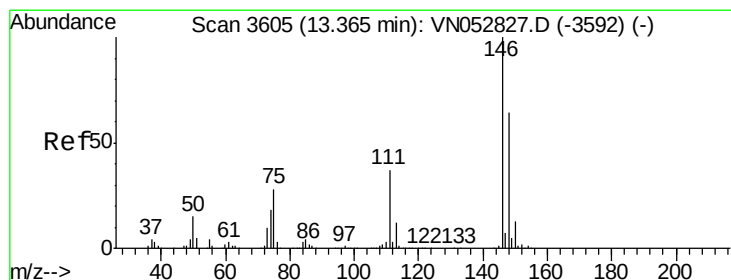
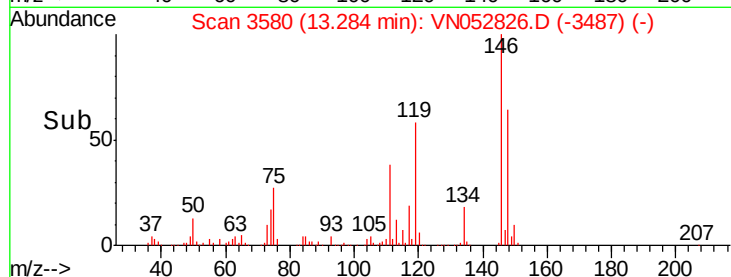
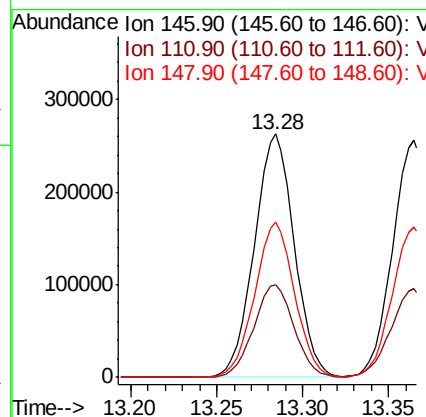
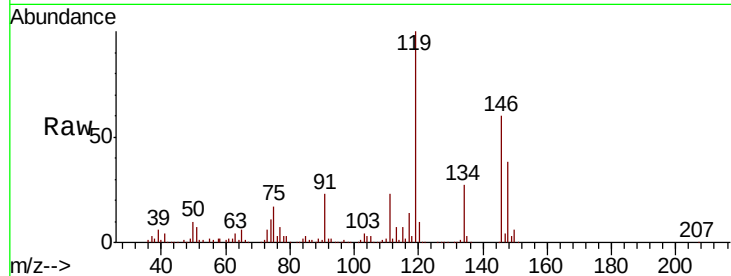
#87
 1,3-Dichlorobenzene
 Concen: 20.216 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.4	32.0	96.0

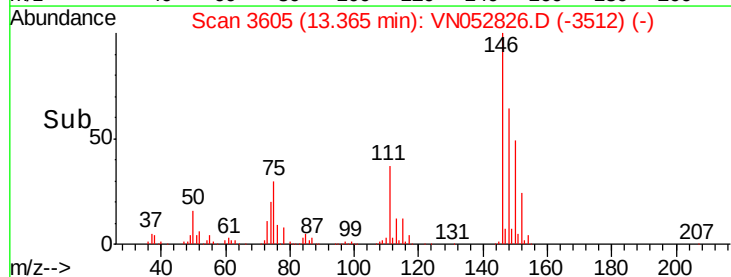
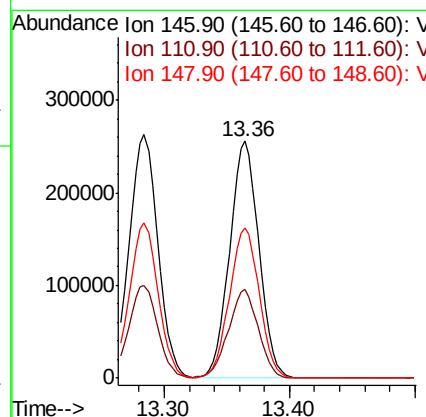
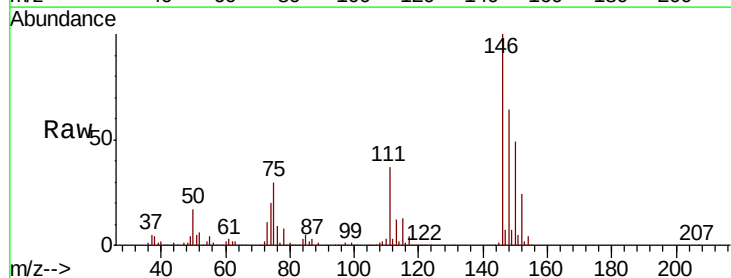
Manual Integrations
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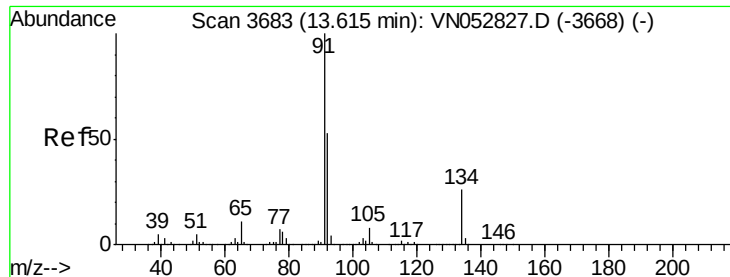
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#88
 1,4-Dichlorobenzene
 Concen: 20.068 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.6	55.8
148	64.6	32.1	96.5





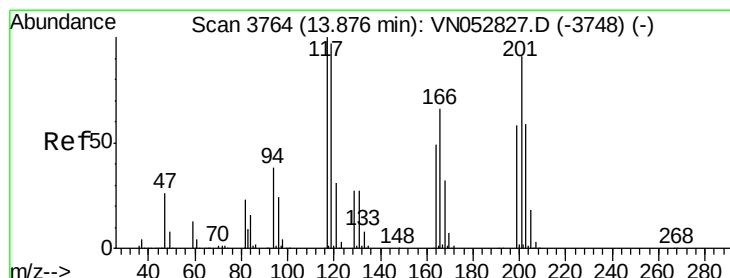
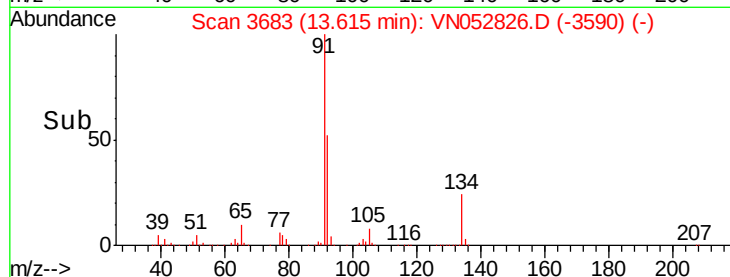
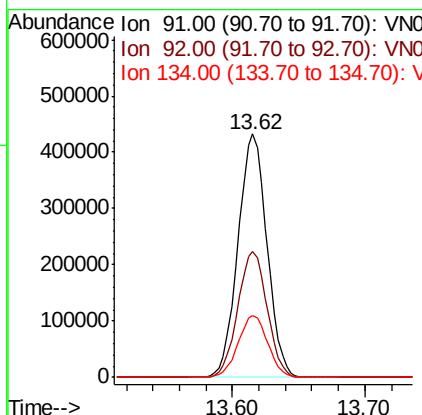
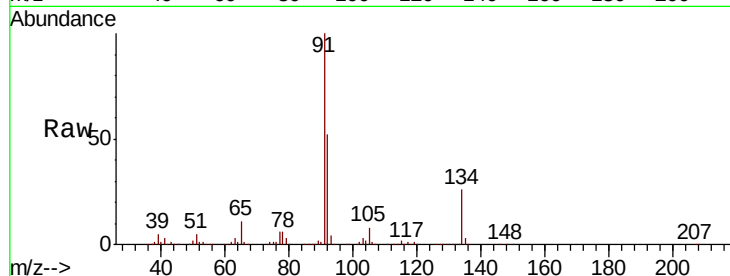
#89
n-Butylbenzene
Concen: 20.183 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.3	78.9
134	25.9	13.3	39.8

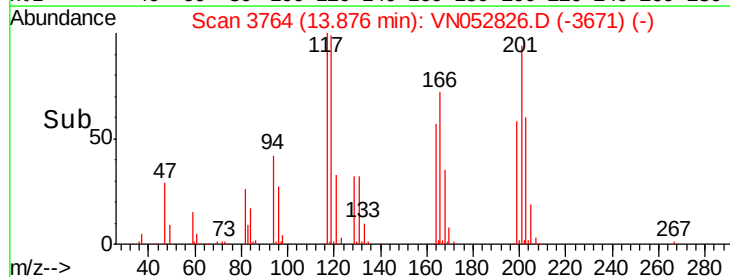
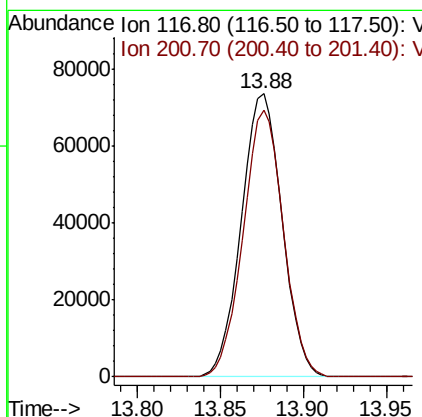
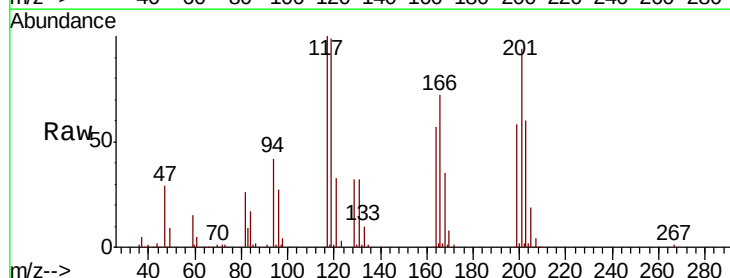
Manual Integrations
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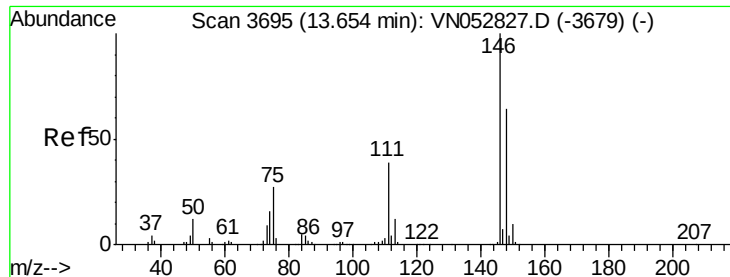
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#90
Hexachloroethane
Concen: 19.495 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	45.7	137.1





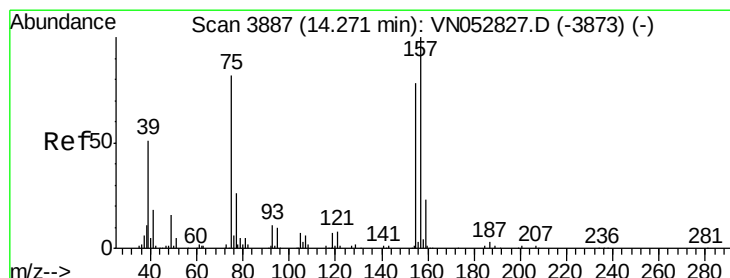
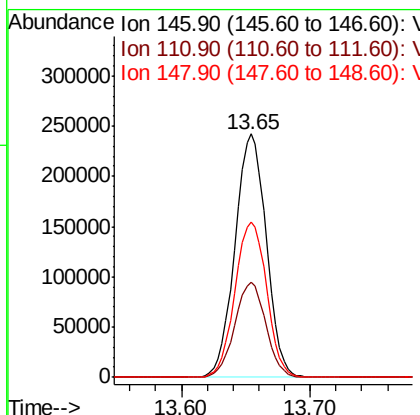
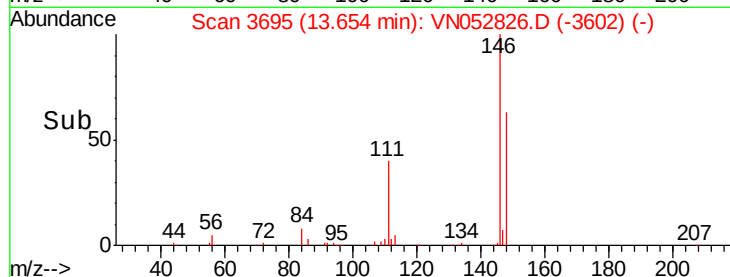
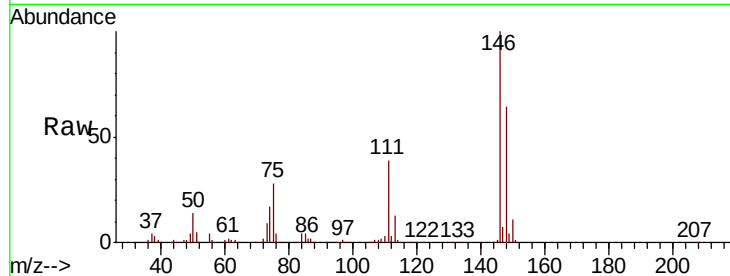
#91
 1,2-Dichlorobenzene
 Concen: 20.320 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.0
148	64.8	32.0	96.0

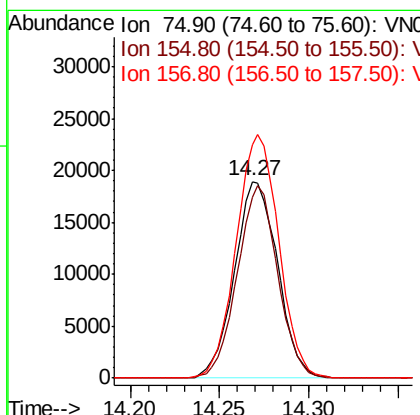
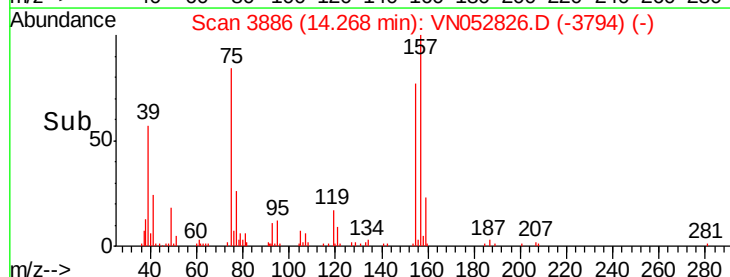
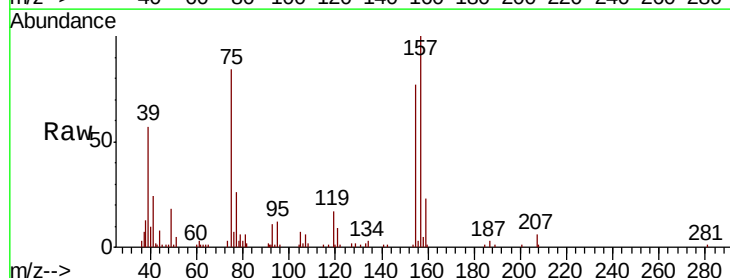
Manual Integrations
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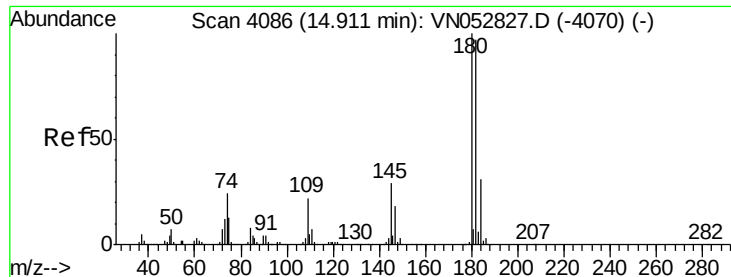
MMDadoda
 12/13/2018 1:36:07 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.399 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052826.D
 Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.5	48.2	144.6
157	122.3	61.2	183.5





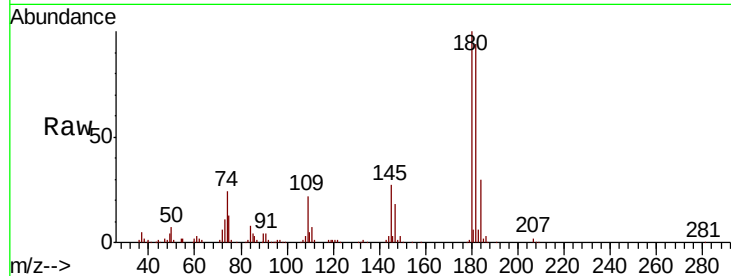
#93
1,2,4-Trichlorobenzene
Concen: 19.791 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	216099		
182	95.3	47.8	143.3	
145	28.5	14.2	42.6	

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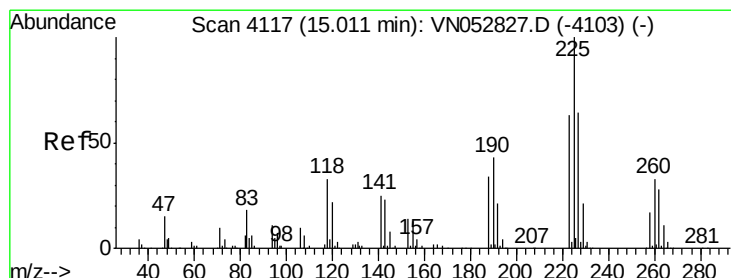
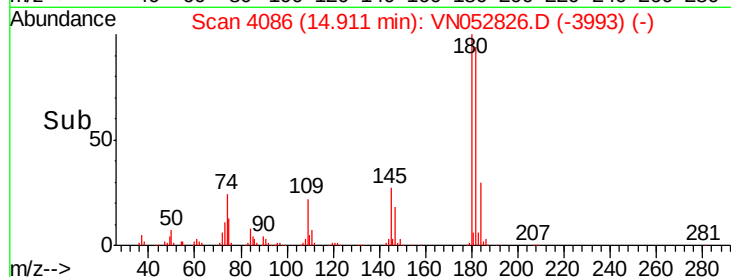
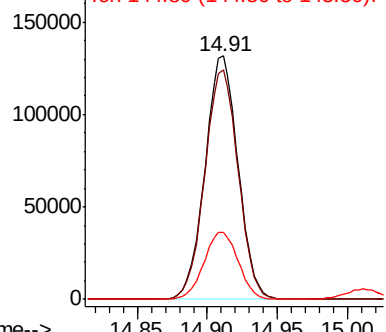


Abundance

Ion 179.80 (179.50 to 180.50): V

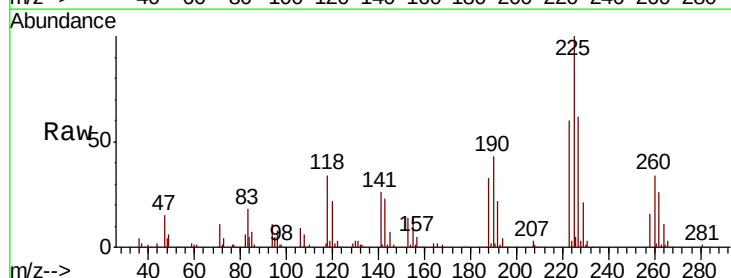
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 20.079 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	126900		
223	62.1	31.5	94.5	
227	64.0	31.9	95.7	

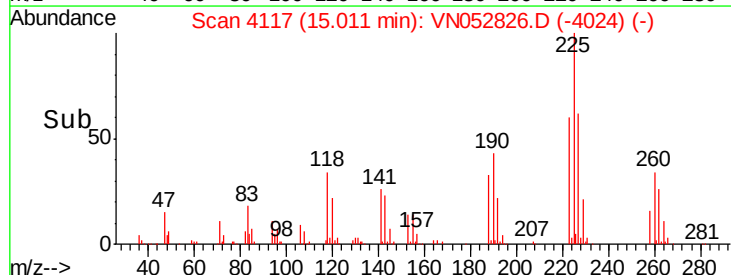
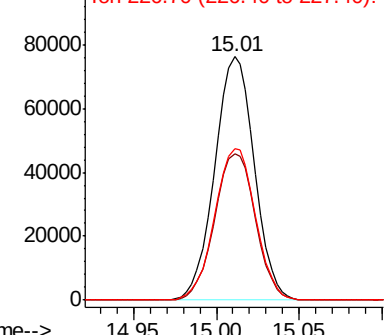


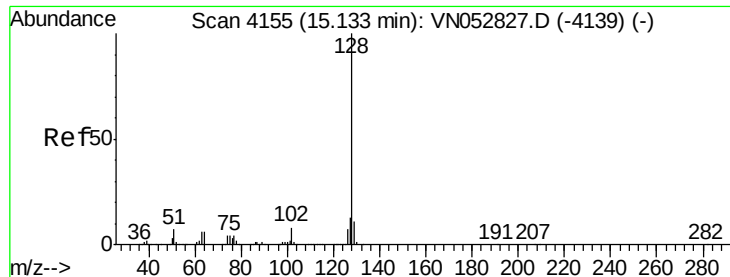
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





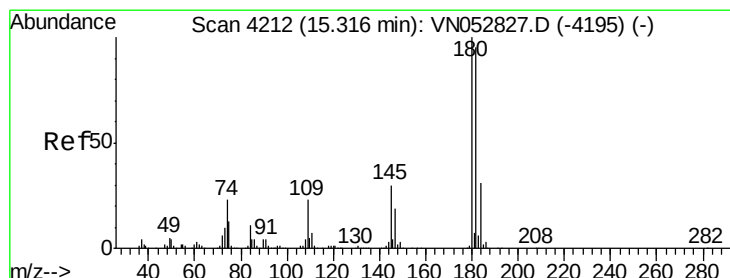
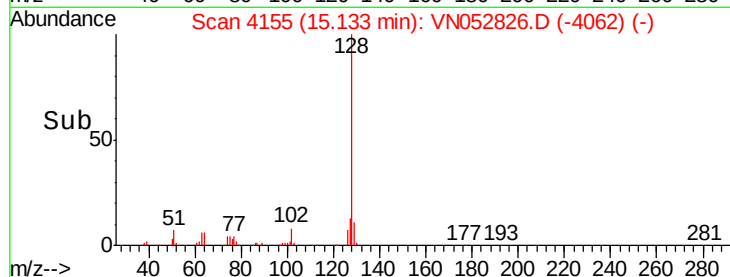
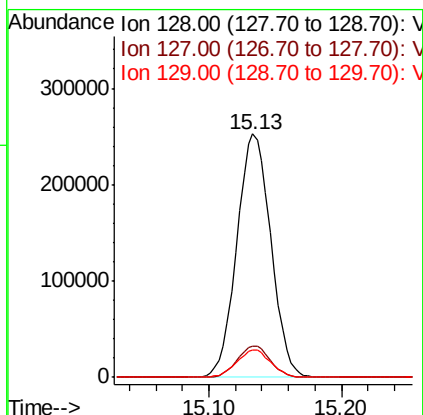
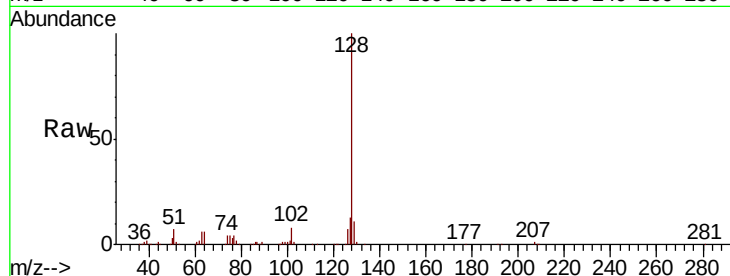
#95
Naphthalene
Concen: 19.886 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.4
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/13/2018 1:36:07 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.038 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052826.D
Acq: 12 Dec 2018 14:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.9	143.7
145	30.3	15.0	45.0

