

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
 Data File : VN051899.D
 Acq On : 17 Oct 2018 9:21
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 3:29:09 PM

Quant Time: Oct 19 04:50:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 04:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	882971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1292865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1100710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	417059	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	46042	5.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.24%	
35) Dibromofluoromethane	7.59	113	42001	5.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.22%	
50) Toluene-d8	10.09	98	150518	5.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.06%	
62) 4-Bromofluorobenzene	12.40	95	43932	4.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	32285	6.04	ug/l	97
3) Chloromethane	2.06	50	29496	5.65	ug/l	98
4) Vinyl Chloride	2.18	62	44754	5.68	ug/l	96
5) Bromomethane	2.56	94	40859	5.44	ug/l	99
6) Chloroethane	2.70	64	32023	5.60	ug/l	99
7) Trichlorofluoromethane	3.01	101	66325	5.46	ug/l	95
8) Diethyl Ether	3.41	74	18554	5.21	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	39073	5.60	ug/l	98
10) Methyl Iodide	3.95	142	32015	3.76	ug/l	99
11) Tert butyl alcohol	4.78	59	13102m	30.31	ug/l	
12) 1,1-Dichloroethene	3.74	96	34774	5.47	ug/l	97
13) Acrolein	3.61	56	11249	31.37	ug/l	91
14) Allyl chloride	4.33	41	38620m	5.79	ug/l	
15) Acrylonitrile	5.00	53	45085	26.03	ug/l	95
16) Acetone	3.82	43	43937	30.31	ug/l	93
17) Carbon Disulfide	4.05	76	77860	4.91	ug/l	99
18) Methyl Acetate	4.33	43	26393	5.46	ug/l	94
19) Methyl tert-butyl Ether	5.05	73	101034	5.52	ug/l	96
20) Methylene Chloride	4.56	84	39861	5.41	ug/l	92
21) trans-1,2-Dichloroethene	5.04	96	38985	5.34	ug/l	96
22) Diisopropyl ether	5.95	45	88992	5.55	ug/l	90
23) Vinyl Acetate	5.90	43	293213	26.55	ug/l	99
24) 1,1-Dichloroethane	5.85	63	64028	5.51	ug/l	99
25) 2-Butanone	6.84	43	62364	30.11	ug/l	95
26) 2,2-Dichloropropane	6.82	77	57744	5.26	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	44386	5.23	ug/l	97
28) Bromochloromethane	7.19	49	24632	5.22	ug/l	95
29) Tetrahydrofuran	7.22	42	33786	26.70	ug/l	98
30) Chloroform	7.37	83	72796	5.24	ug/l	98
31) Cyclohexane	7.65	56	65174	5.16	ug/l #	89
32) 1,1,1-Trichloroethane	7.57	97	68222	5.26	ug/l	100
36) 1,1-Dichloropropene	7.80	75	52624	5.24	ug/l	98
37) Ethyl Acetate	6.93	43	22528	5.11	ug/l #	92
38) Carbon Tetrachloride	7.77	117	60219	5.10	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	66717	5.37	ug/l	100
40) Benzene	8.04	78	158820	5.42	ug/l	98
41) Methacrylonitrile	7.19	41	14086m	6.18	ug/l	
42) 1,2-Dichloroethane	8.12	62	52391	5.58	ug/l	100
43) Isopropyl Acetate	8.17	43	51442	5.78	ug/l #	88
44) Trichloroethene	8.84	130	47263	5.14	ug/l	97
45) 1,2-Dichloropropane	9.12	63	37124	5.48	ug/l	98
46) Dibromomethane	9.21	93	25932	5.02	ug/l	97
47) Bromodichloromethane	9.40	83	50045	4.83	ug/l	99
48) Methyl methacrylate	9.20	41	21321	5.26	ug/l	99
49) 1,4-Dioxane	9.20	88	8312	108.03	ug/l #	95
51) 4-Methyl-2-Pentanone	9.99	43	119814	25.65	ug/l	100
52) Toluene	10.16	92	100082	5.10	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	46163	4.70	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	53914	4.93	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	38329	5.33	ug/l	98
56) Ethyl methacrylate	10.43	69	39818	4.96	ug/l	99
57) 1,3-Dichloropropane	10.71	76	56744	5.19	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	85134	25.02	ug/l	97
59) 2-Hexanone	10.75	43	84191	26.88	ug/l	97
60) Dibromochloromethane	10.90	129	37485	4.45	ug/l	100
61) 1,2-Dibromoethane	11.01	107	36488	4.84	ug/l	99
64) Tetrachloroethene	10.63	164	46878	5.31	ug/l	97
65) Chlorobenzene	11.43	112	113579	5.16	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	40448	4.94	ug/l	96
67) Ethyl Benzene	11.51	91	183878	5.10	ug/l	100
68) m/p-Xylenes	11.62	106	145063	10.02	ug/l	96
69) o-Xylene	11.95	106	71979	5.10	ug/l	97
70) Styrene	11.96	104	103623	4.78	ug/l	97
71) Bromoform	12.13	173	21461	4.21	ug/l #	98
73) Isopropylbenzene	12.25	105	186306	5.77	ug/l	99
74) N-amyl acetate	12.07	43	31036	5.59	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	39380	6.04	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	29091m	5.52	ug/l	
77) Bromobenzene	12.53	156	44790	5.45	ug/l	93
78) n-propylbenzene	12.59	91	194259	5.78	ug/l	97
79) 2-Chlorotoluene	12.67	91	116820	5.71	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	149055	5.71	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	7153	5.11	ug/l #	87
82) 4-Chlorotoluene	12.77	91	109378	5.57	ug/l	97
83) tert-Butylbenzene	12.99	119	139953	5.71	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	146874	5.72	ug/l	97
85) sec-Butylbenzene	13.17	105	174568	5.60	ug/l	99
86) p-Isopropyltoluene	13.29	119	148081	5.48	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	71397	5.16	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	69597	5.11	ug/l	96
89) n-Butylbenzene	13.62	91	104713	5.34	ug/l	98
90) Hexachloroethane	13.87	117	23970	5.30	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	72073	5.37	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4907	5.61	ug/l	86

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VSTDICC005

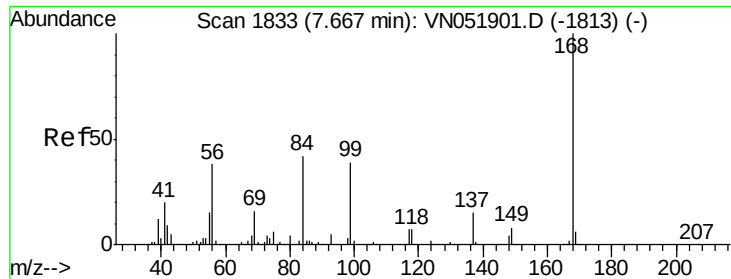
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	20015	3.45	ug/l	95
94) Hexachlorobutadiene	15.01	225	24595	5.79	ug/l	97
95) Naphthalene	15.13	128	40862	3.54	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	21853	3.79	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 168 Resp: 882971

Ion Ratio Lower Upper

168 100

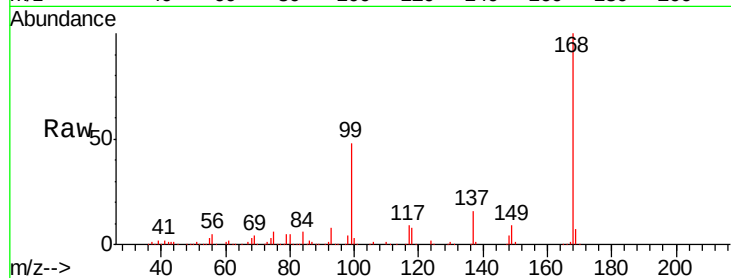
99 48.2 39.2 58.8

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

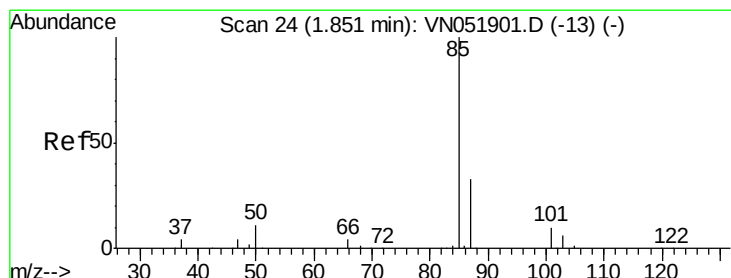
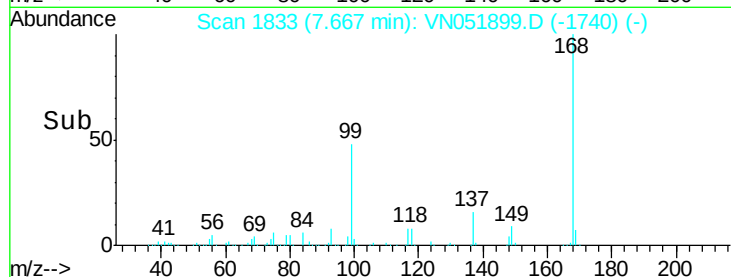
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 6.04 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051899.D

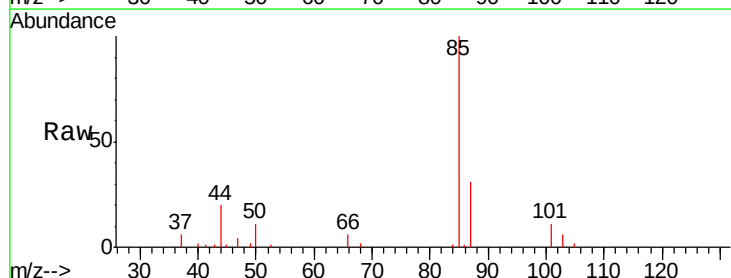
Acq: 17 Oct 2018 9:21

Tgt Ion: 85 Resp: 32285

Ion Ratio Lower Upper

85 100

87 31.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

25000

20000

15000

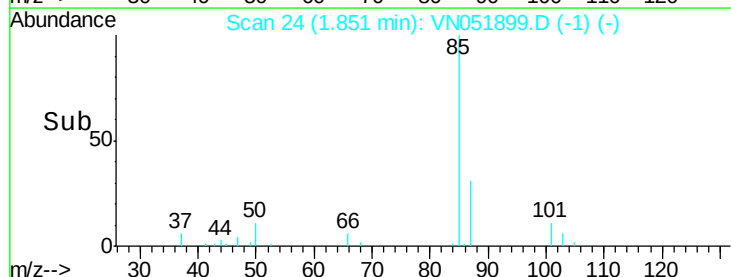
10000

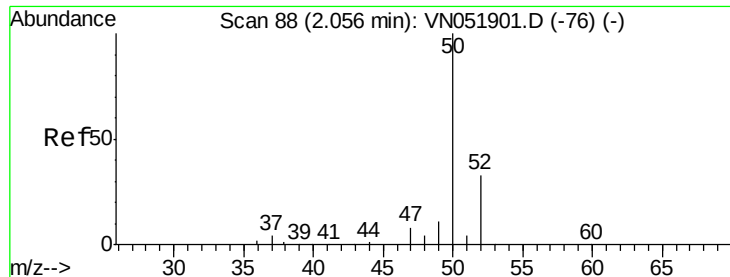
5000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 5.65 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 29496

Ion Ratio Lower Upper

50 100

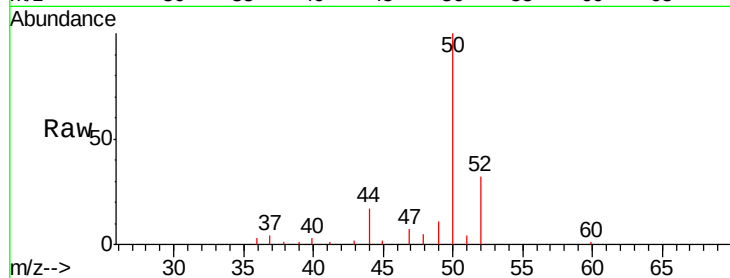
52 32.0 26.3 39.5

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN051899.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051899.D (-1) (-)

2.06

20000

15000

10000

5000

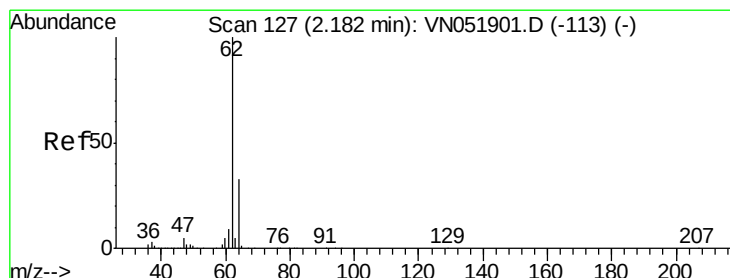
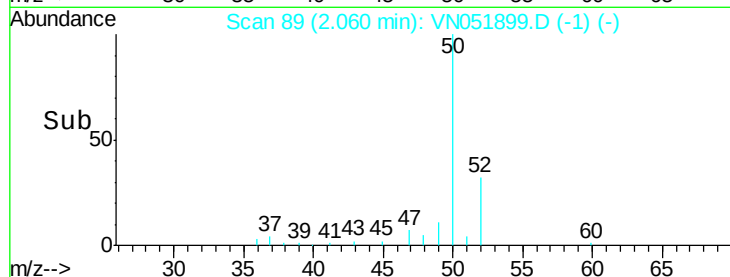
0

Time-->

2.00

2.05

2.10



#4

Vinyl Chloride

Concen: 5.68 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051899.D

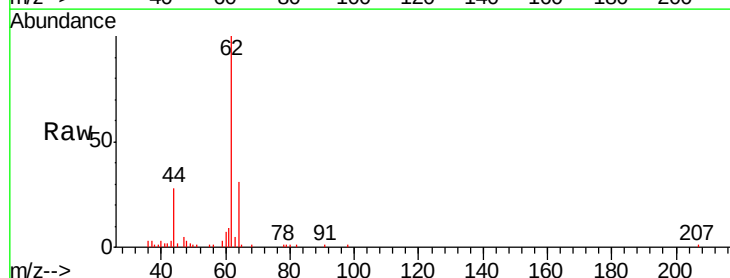
Acq: 17 Oct 2018 9:21

Tgt Ion: 62 Resp: 44754

Ion Ratio Lower Upper

62 100

64 30.5 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN051899.D (-34) (-)

Ion 63.90 (63.60 to 64.60): VN051899.D (-34) (-)

2.18

30000

20000

10000

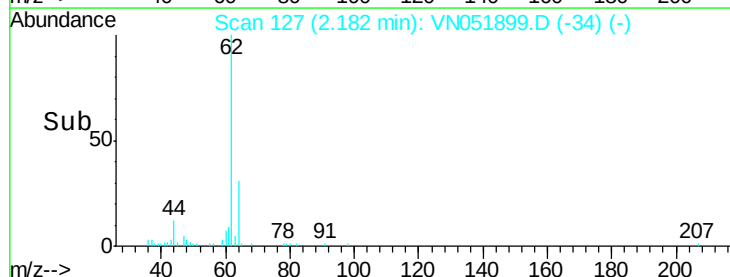
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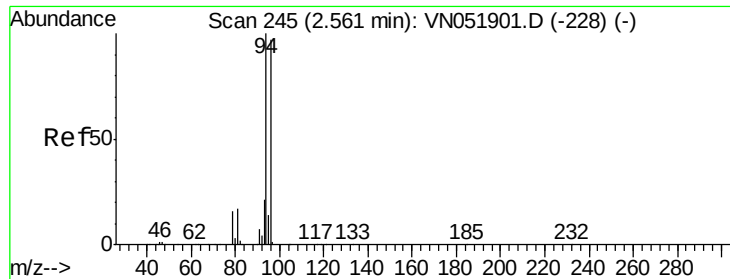
Time-->

2.15

2.20

2.25





#5

Bromomethane

Concen: 5.44 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 40859

Ion Ratio Lower Upper

94 100

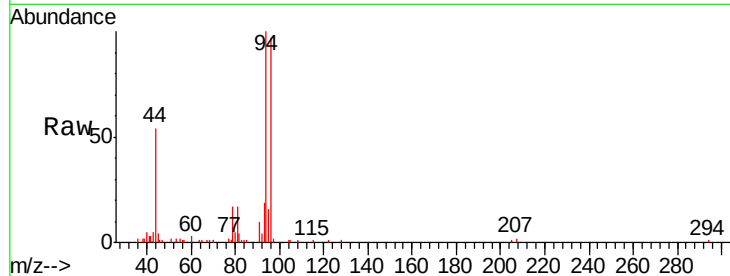
96 96.2 77.5 116.3

Manual Integrations

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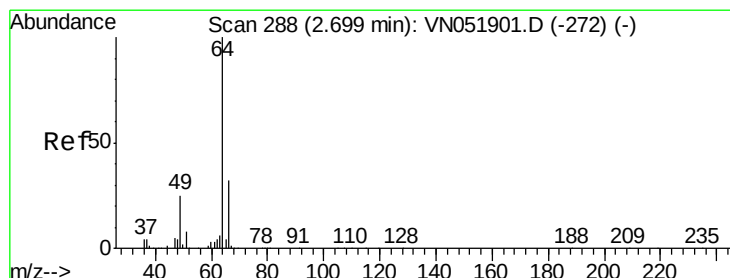
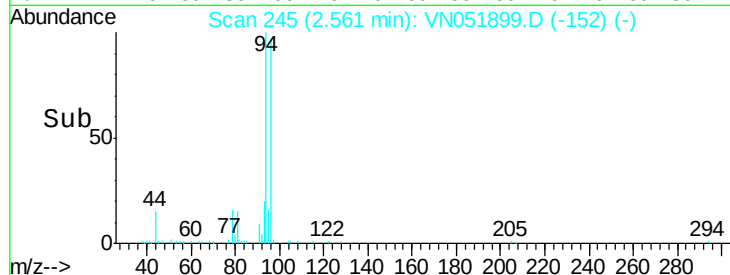
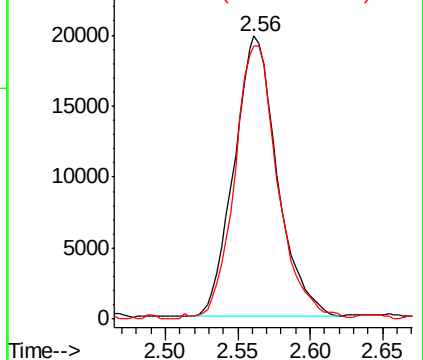
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 5.60 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN051899.D

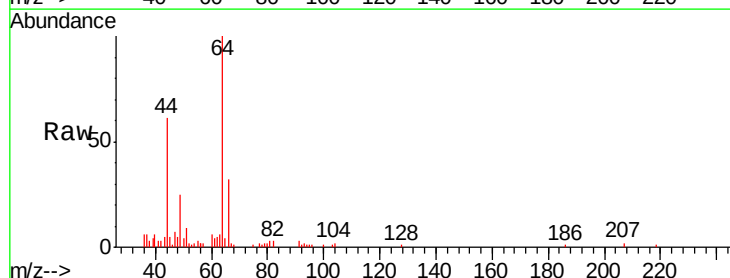
Acq: 17 Oct 2018 9:21

Tgt Ion: 64 Resp: 32023

Ion Ratio Lower Upper

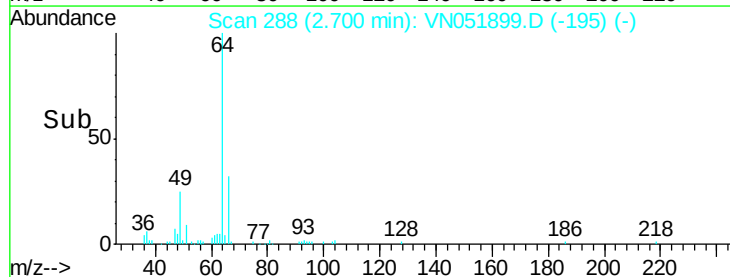
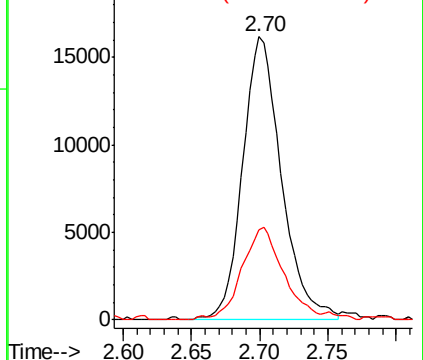
64 100

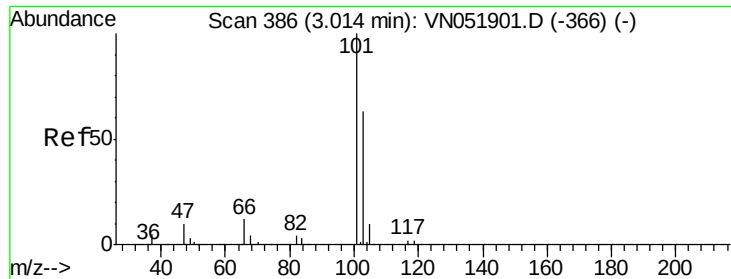
66 31.8 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 5.46 ug/l

RT: 3.01 min Scan# 386

Delta R.T. 0.00 min

Lab File: VN051899.D

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ClientSampleId :

VSTDIC005

Tgt Ion: 101 Resp: 66325

Ion Ratio Lower Upper

101 100

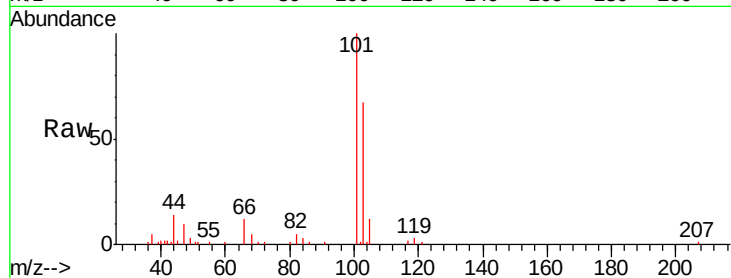
103 67.5 50.8 76.2

Manual Integrations

APPROVED

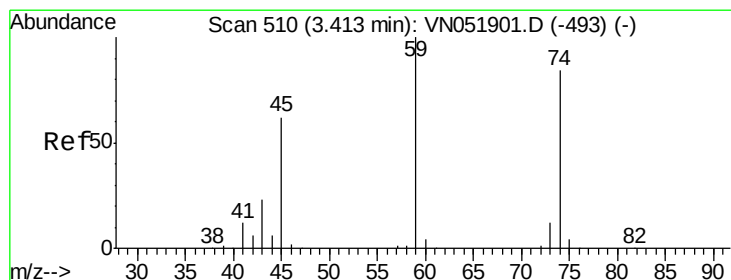
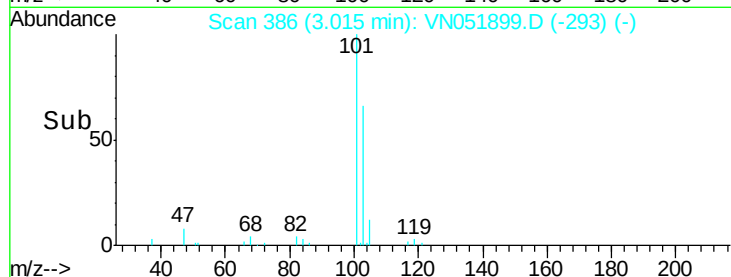
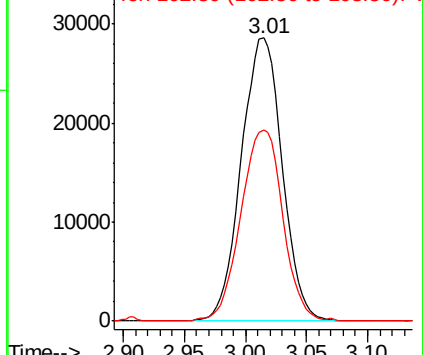
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.21 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN051899.D

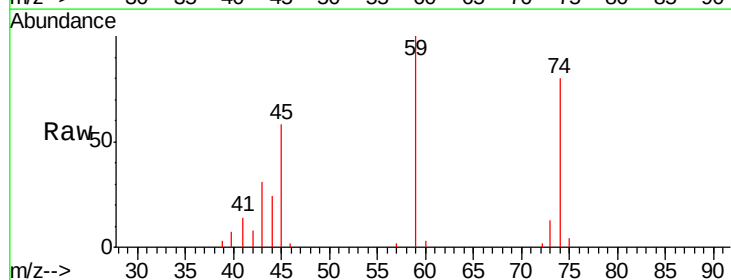
Acq: 17 Oct 2018 9:21

Tgt Ion: 74 Resp: 18554

Ion Ratio Lower Upper

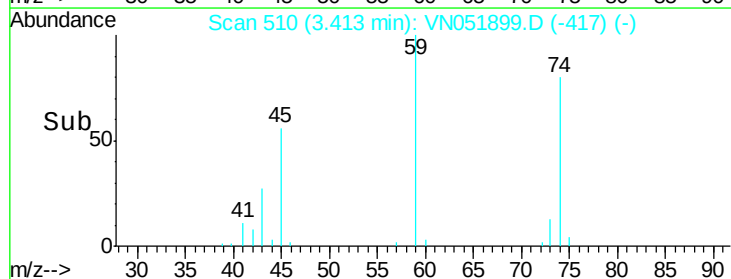
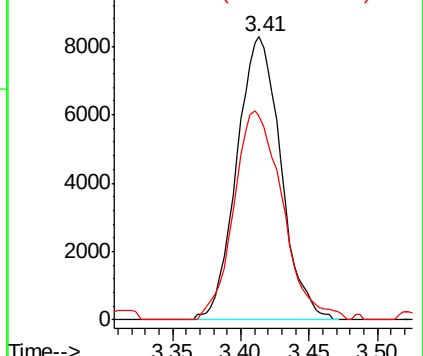
74 100

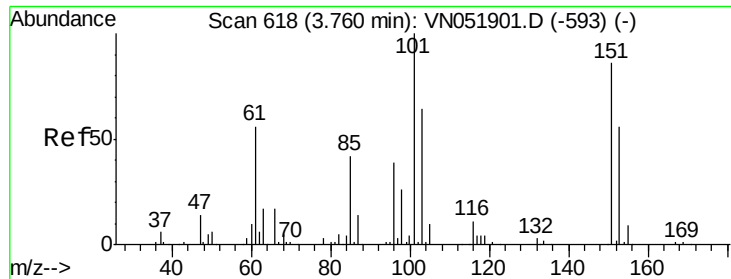
45 81.5 36.8 110.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





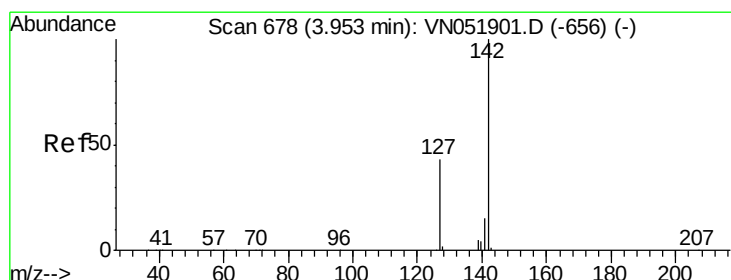
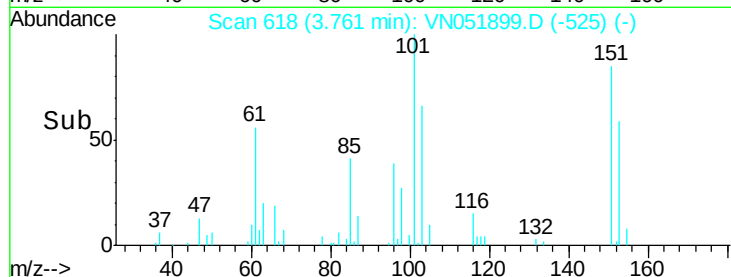
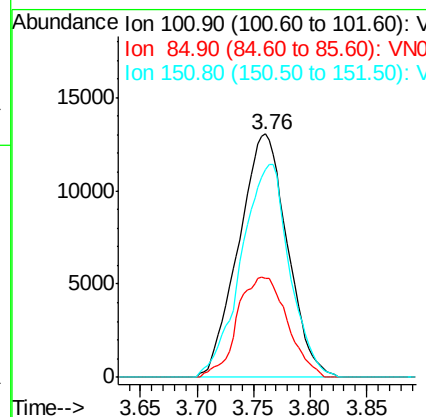
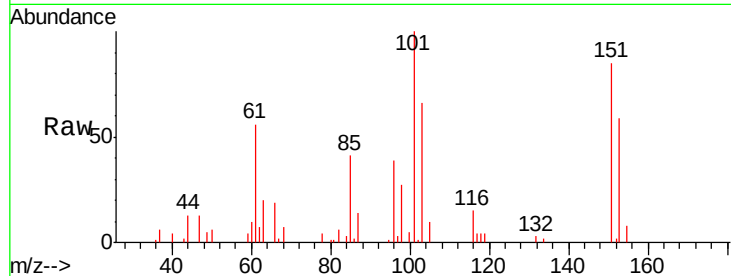
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.60 ug/l
RT: 3.76 min Scan# 618
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	39073		
85	42.1	34.8	52.2	
151	86.6	68.0	102.0	

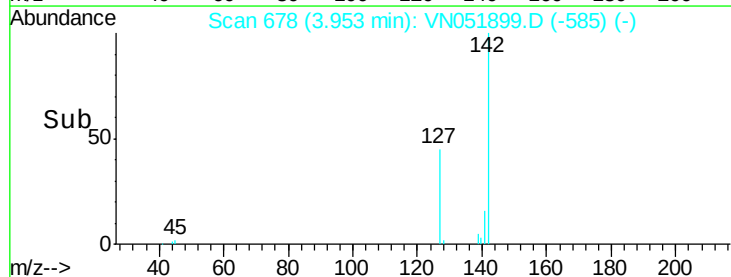
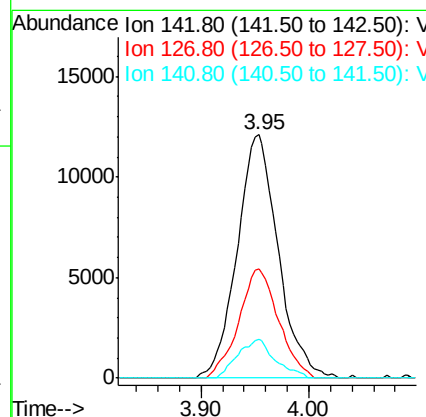
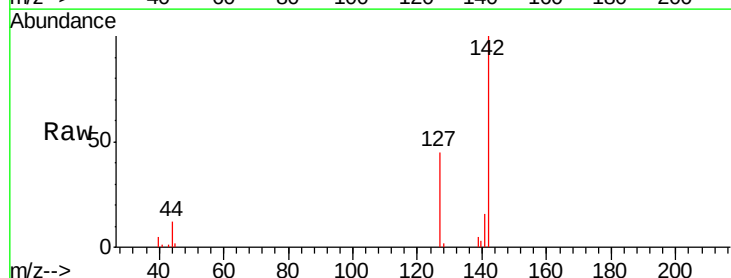
Manual Integrations
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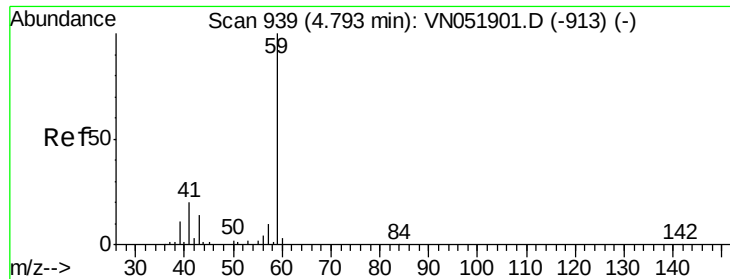
MMDadoda
10/19/2018 3:29:09 PM



#10
Methyl Iodide
Concen: 3.76 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	32015		
127	43.5	34.3	51.5	
141	14.5	11.1	16.7	





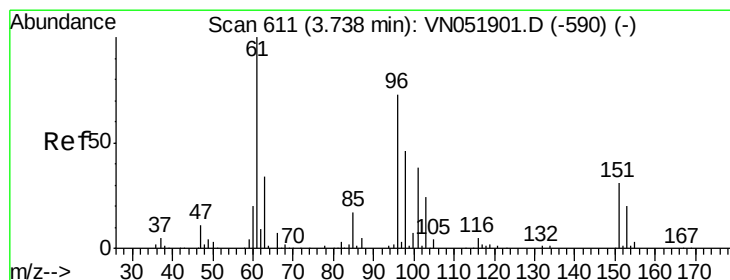
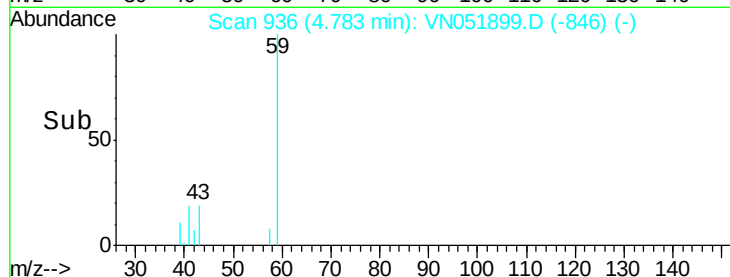
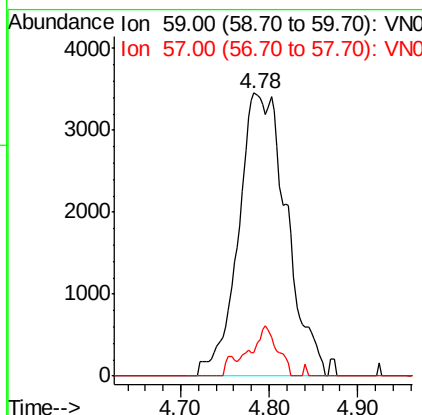
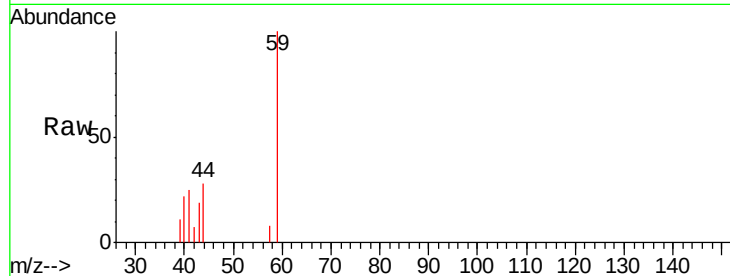
#11
Tert butyl alcohol
Concen: 30.31 ug/l m
RT: 4.78 min Scan# 936
Delta R.T. -0.01 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.3	8.3	12.5

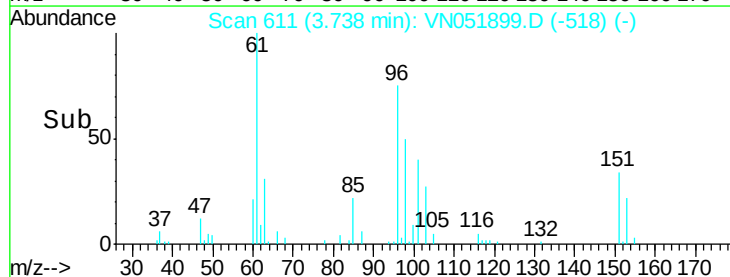
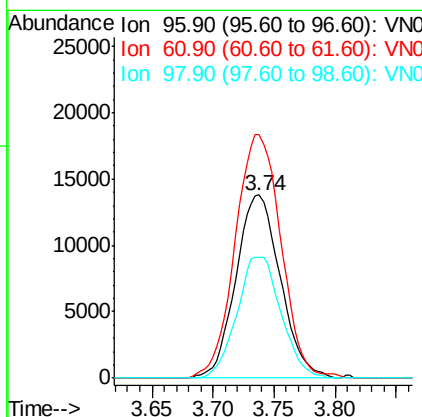
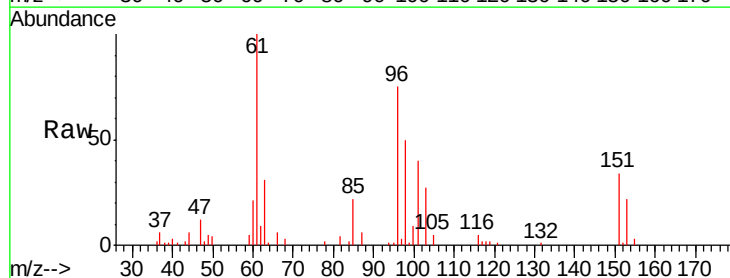
Manual Integrations
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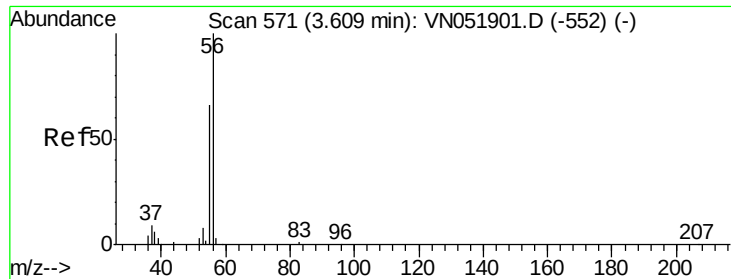
MMDadoda
10/19/2018 3:29:09 PM



#12
1,1-Dichloroethene
Concen: 5.47 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.0	109.8	164.6
98	66.1	50.9	76.3





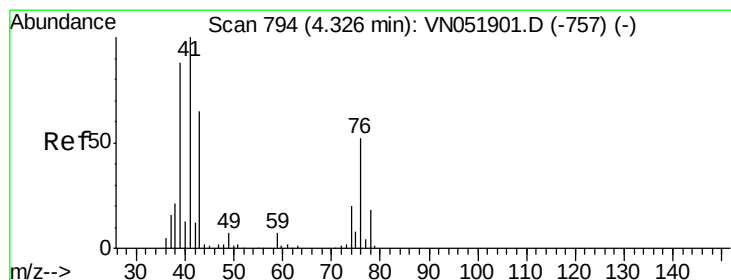
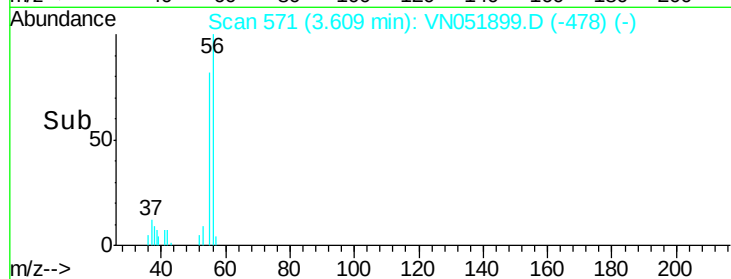
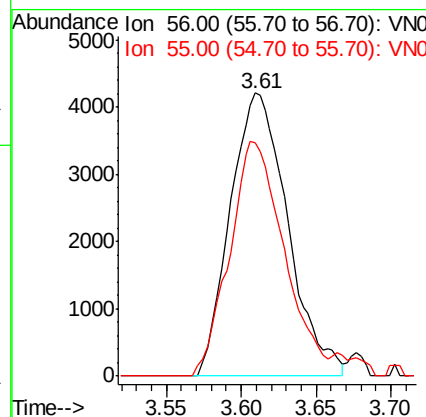
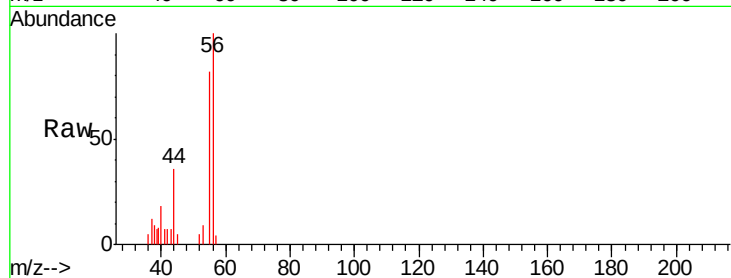
#13
Acrolein
Concen: 31.37 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 56 Resp: 11249
Ion Ratio Lower Upper
56 100
55 78.4 56.7 85.1

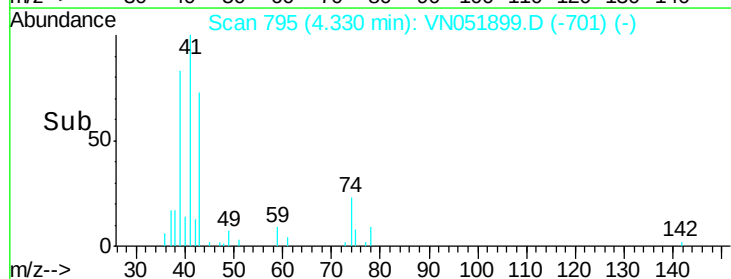
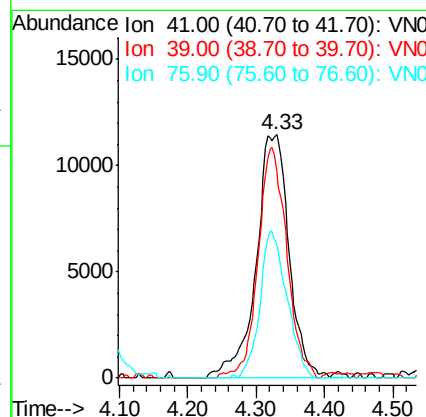
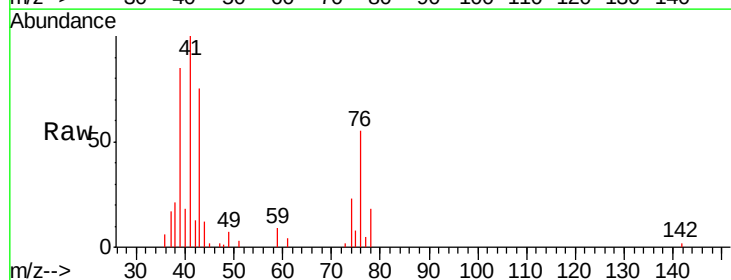
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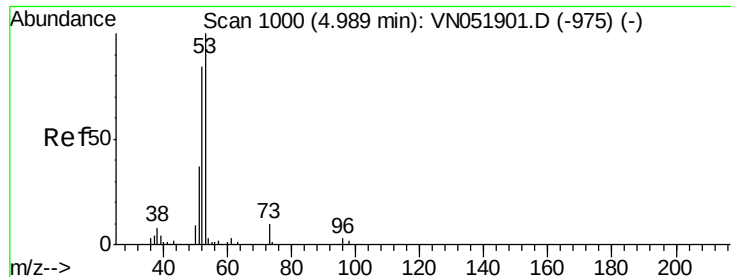
MMDadoda
10/19/2018 3:29:09 PM



#14
Allyl chloride
Concen: 5.79 ug/l m
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 41 Resp: 38620
Ion Ratio Lower Upper
41 100
39 81.9 65.4 98.0
76 48.9 39.6 59.4





#15

Acrylonitrile

Concen: 26.03 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

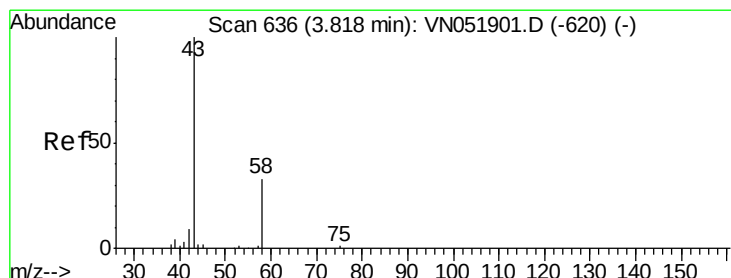
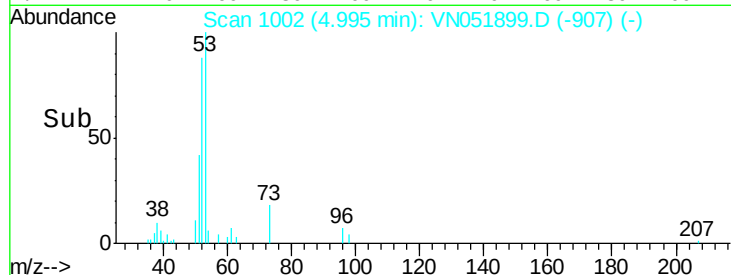
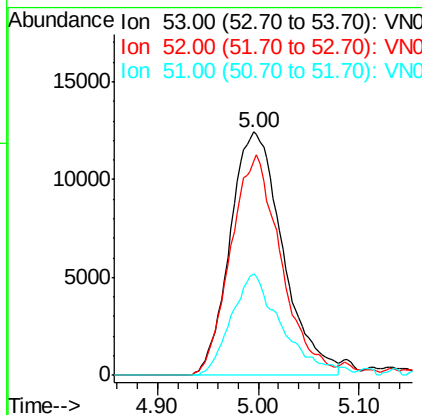
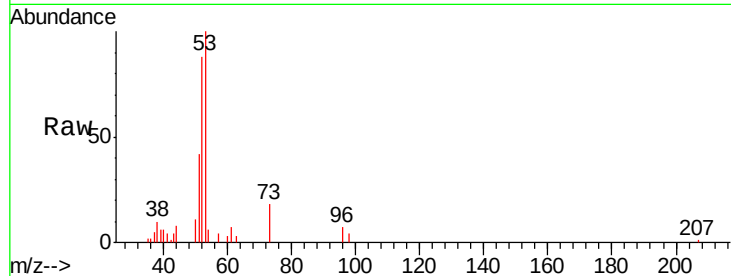
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	45085
Ion	Ratio	Lower	Upper
53	100		
52	86.2	65.8	98.8
51	40.5	29.4	44.2

Manual Integrations
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#16

Acetone

Concen: 30.31 ug/l

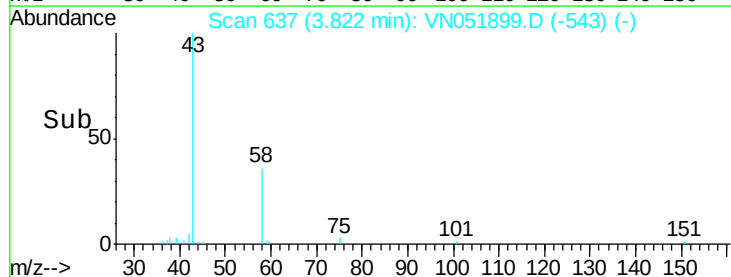
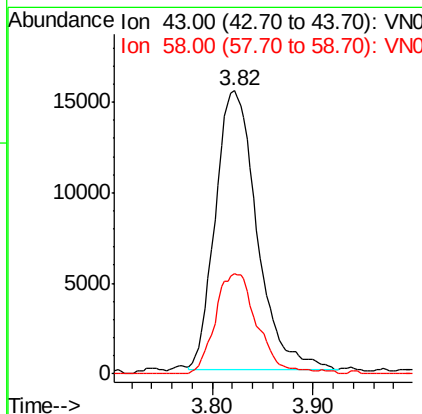
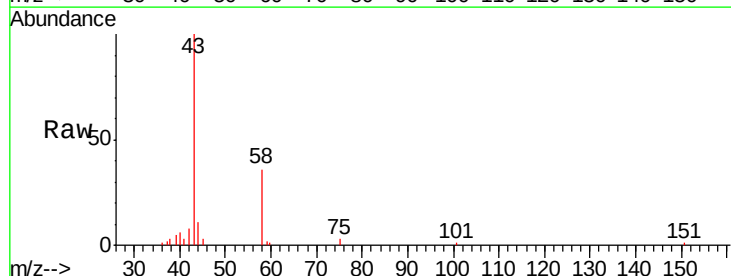
RT: 3.82 min Scan# 637

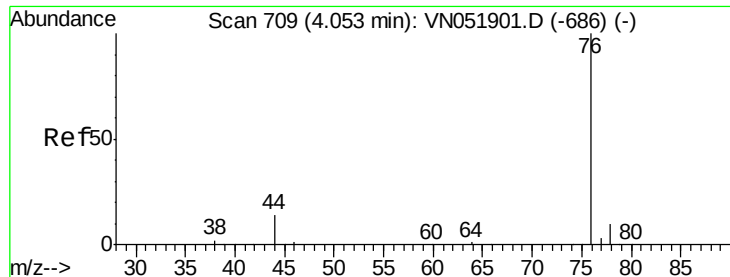
Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	43	Resp:	43937
Ion	Ratio	Lower	Upper
43	100		
58	36.2	25.9	38.9





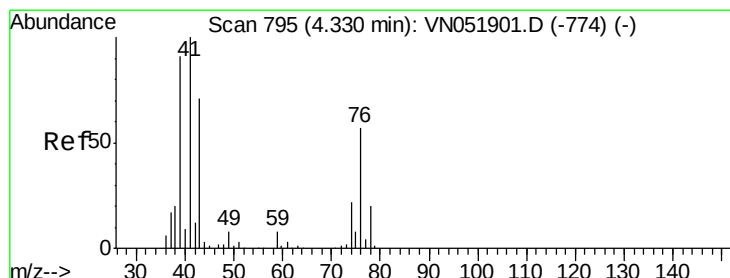
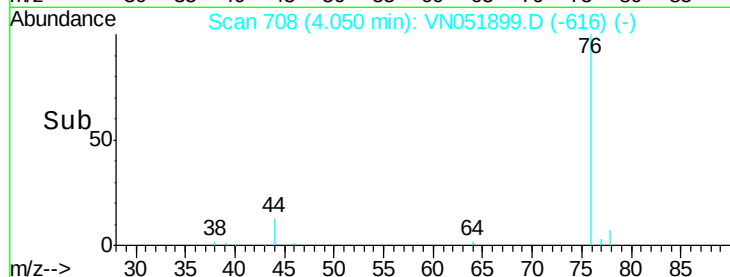
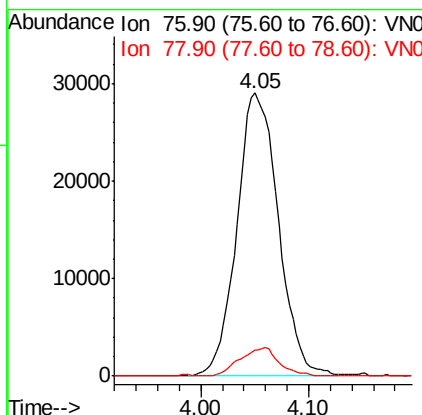
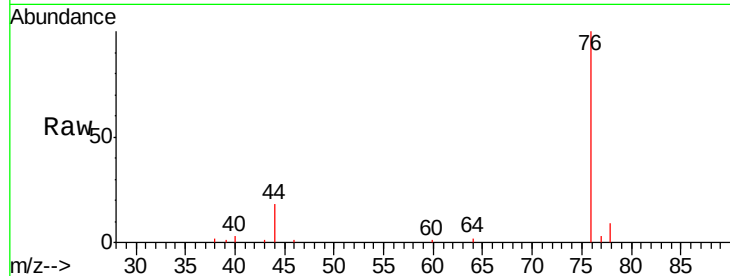
#17
Carbon Disulfide
Concen: 4.91 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 76 Resp: 77860
Ion Ratio Lower Upper
76 100
78 9.0 7.6 11.4

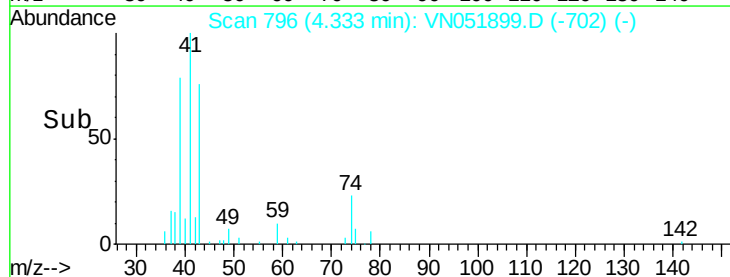
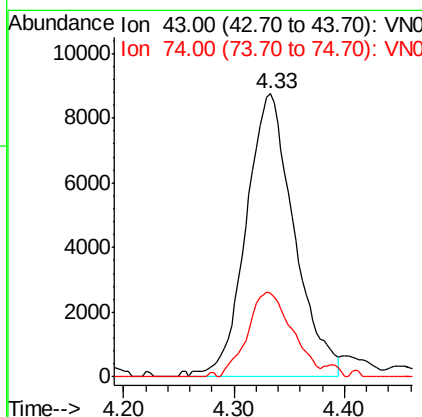
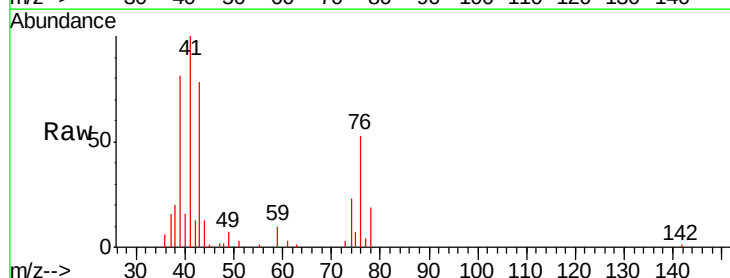
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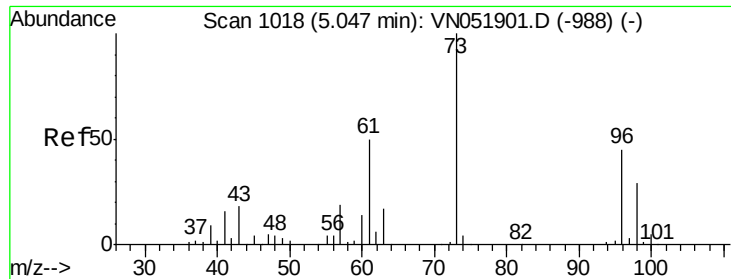
MMDadoda
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#18
Methyl Acetate
Concen: 5.46 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 43 Resp: 26393
Ion Ratio Lower Upper
43 100
74 27.7 24.9 37.3





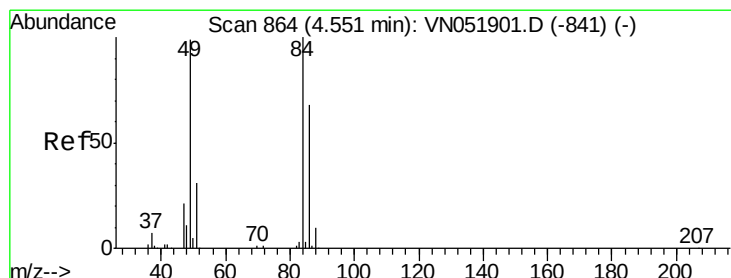
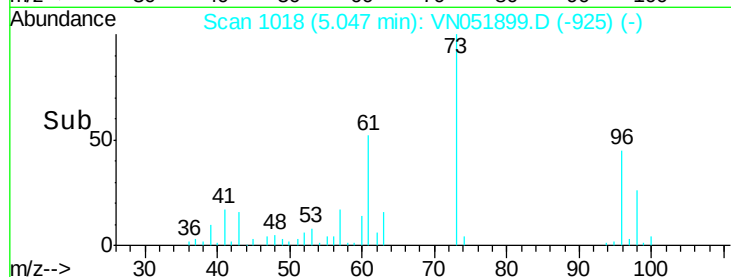
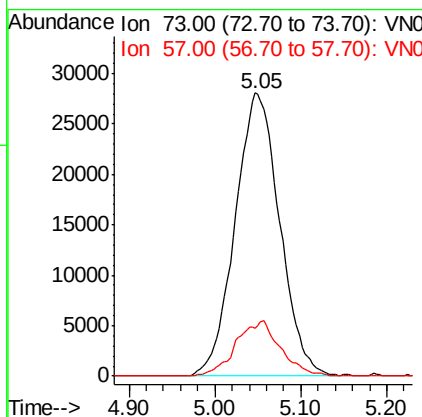
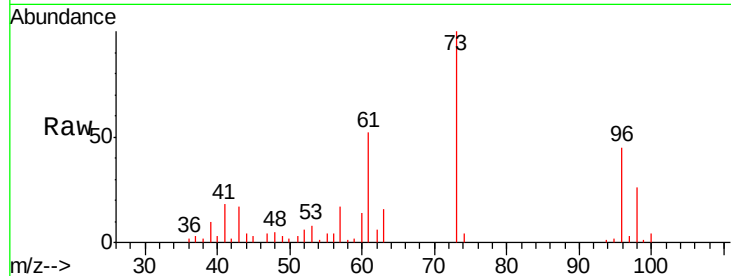
#19
Methyl tert-butyl Ether
Concen: 5.52 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 101034
Ion Ratio Lower Upper
73 100
57 17.1 15.3 22.9

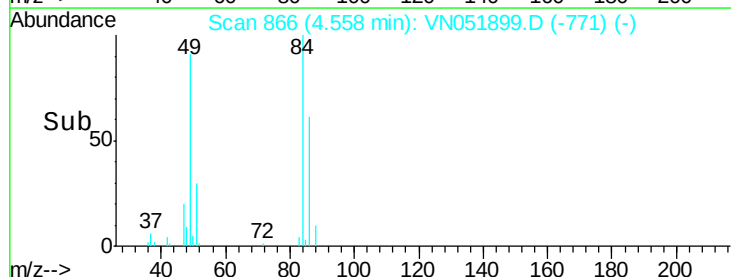
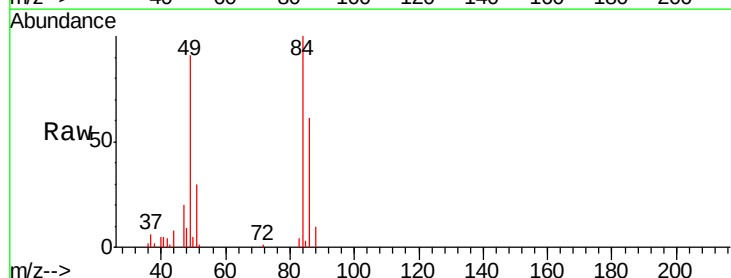
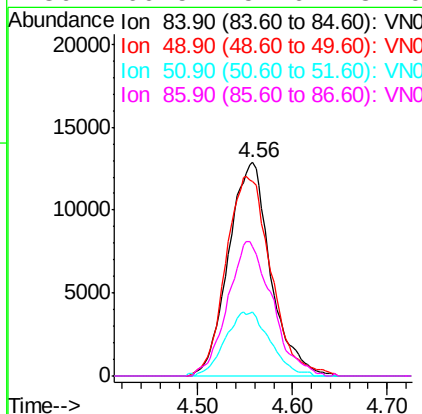
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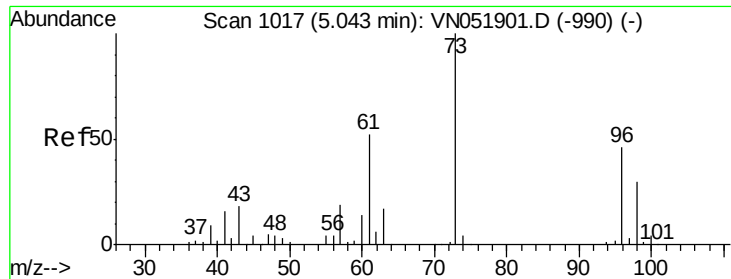
MMDadoda
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#20
Methylene Chloride
Concen: 5.41 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 84 Resp: 39861
Ion Ratio Lower Upper
84 100
49 91.1 79.0 118.4
51 29.7 24.9 37.3
86 60.5 54.6 82.0





#21

trans-1,2-Dichloroethene

Concen: 5.34 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

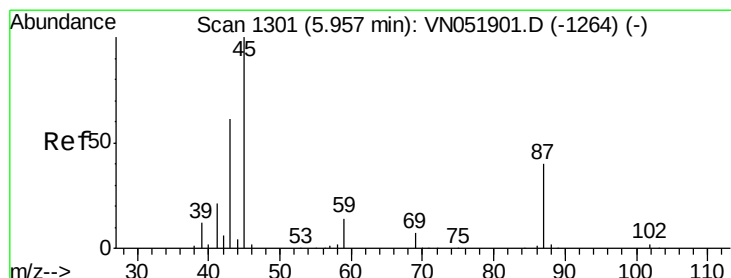
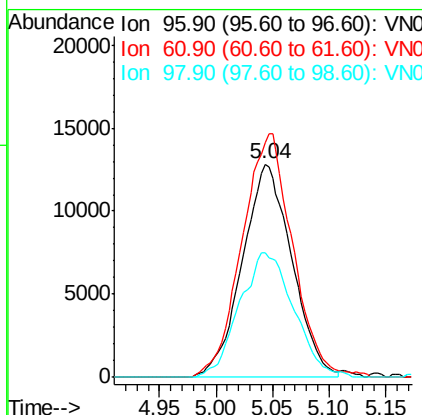
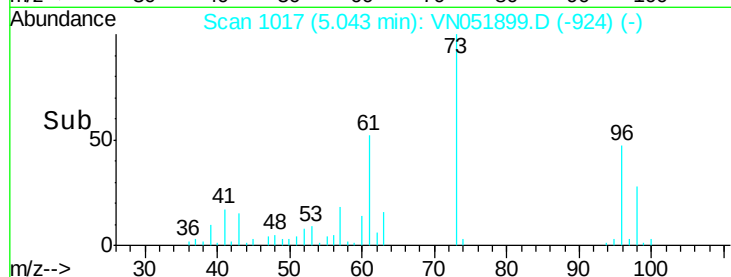
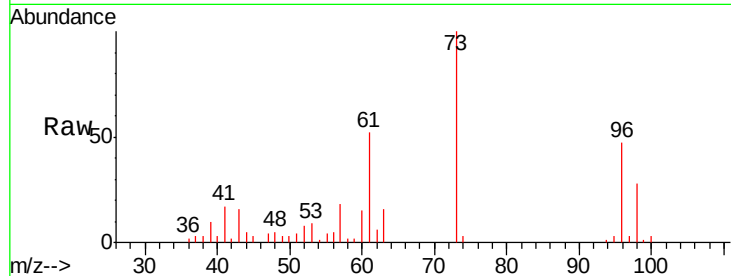
ClientSampleId :

VSTDIC005

Tgt Ion:	96	Resp:	38985
Ion	Ratio	Lower	Upper
96	100		
61	109.9	89.8	134.6
98	58.3	51.7	77.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 5.55 ug/l

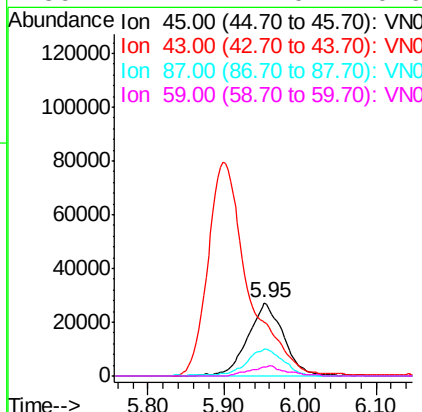
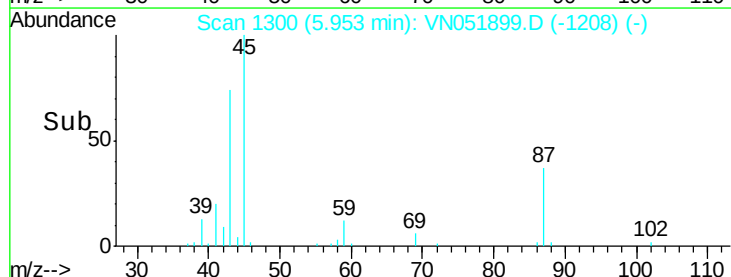
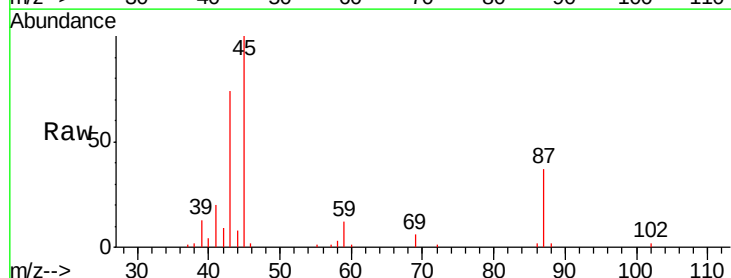
RT: 5.95 min Scan# 1300

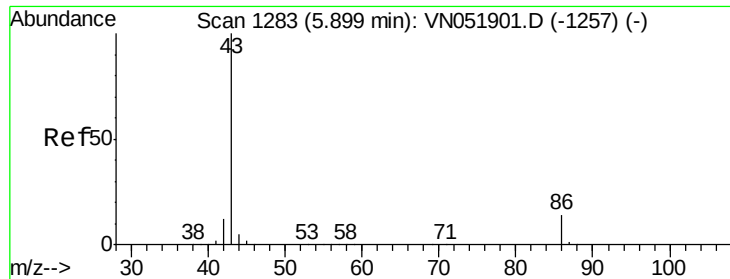
Delta R.T. -0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	45	Resp:	88992
Ion	Ratio	Lower	Upper
45	100		
43	71.3	48.9	73.3
87	37.0	32.6	48.8
59	11.7	11.0	16.6





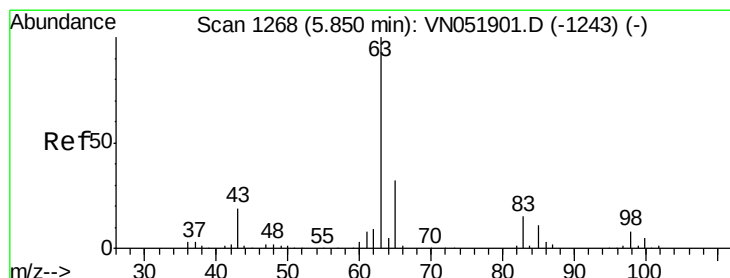
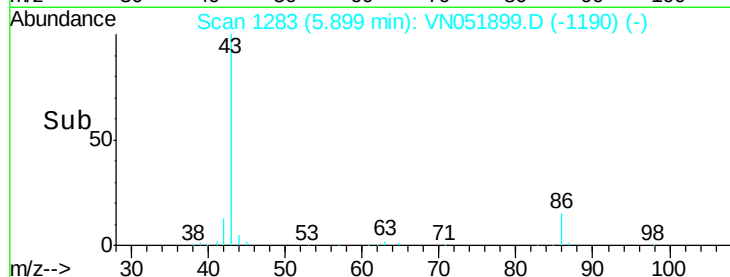
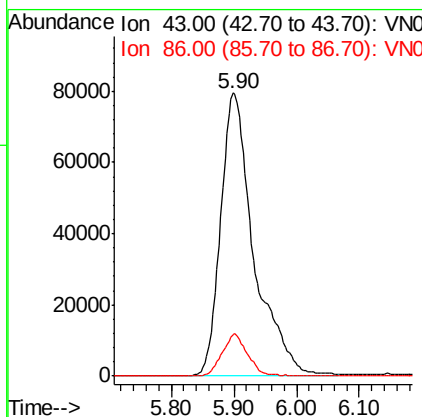
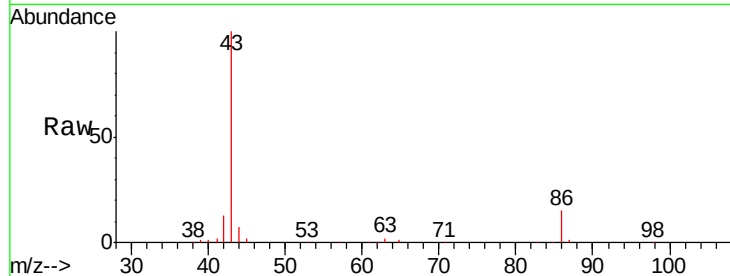
#23
 Vinyl Acetate
 Concen: 26.55 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 43 Resp: 293213
 Ion Ratio Lower Upper
 43 100
 86 14.9 11.5 17.3

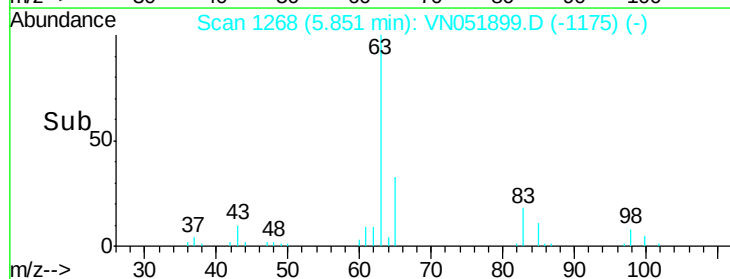
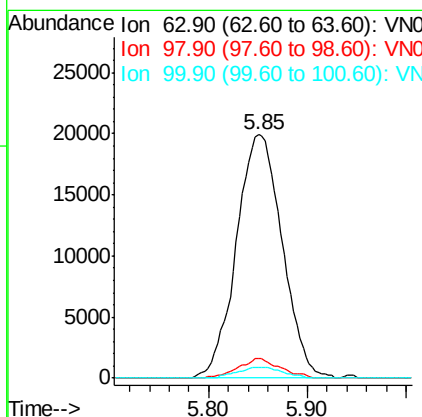
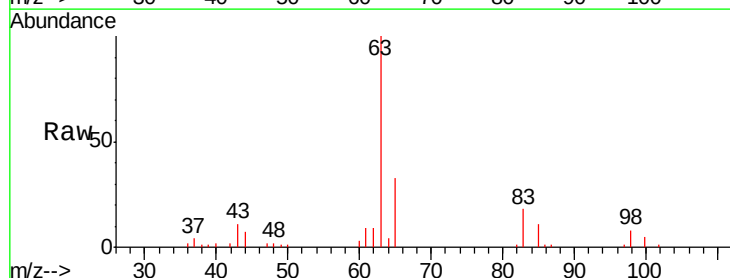
Manual Integrations
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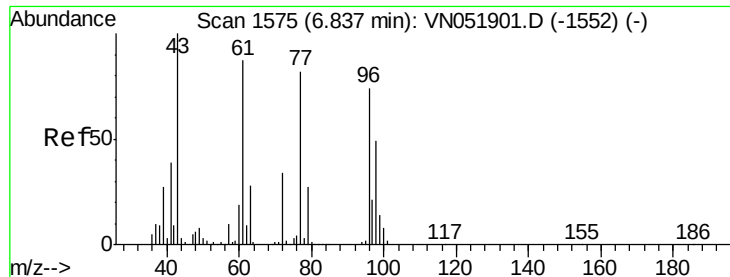
MMDadoda
 10/19/2018 3:29:09 PM



#24
 1,1-Dichloroethane
 Concen: 5.51 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion: 63 Resp: 64028
 Ion Ratio Lower Upper
 63 100
 98 8.3 4.0 12.0
 100 4.5 2.4 7.1





#25

2-Butanone

Concen: 30.11 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 62364

Ion Ratio Lower Upper

43 100

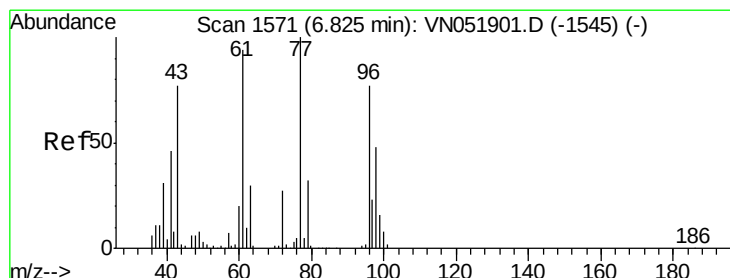
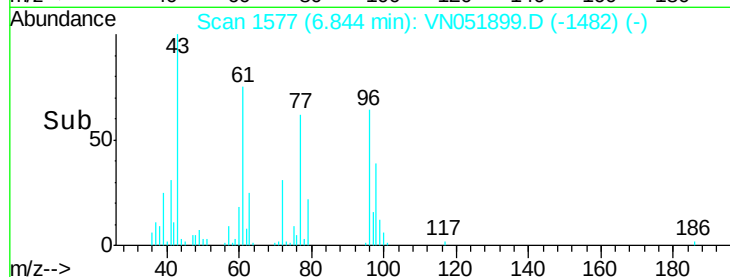
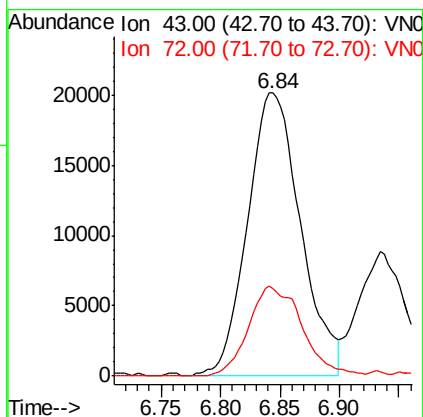
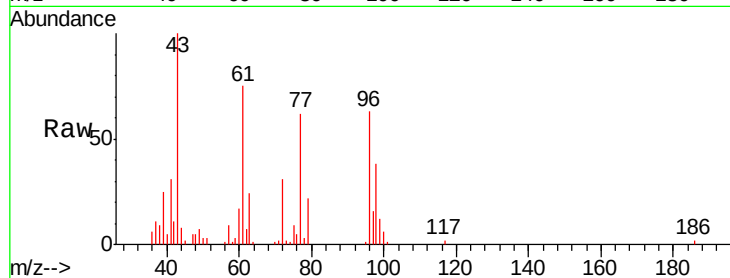
72 31.1 27.0 40.6

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 5.26 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN051899.D

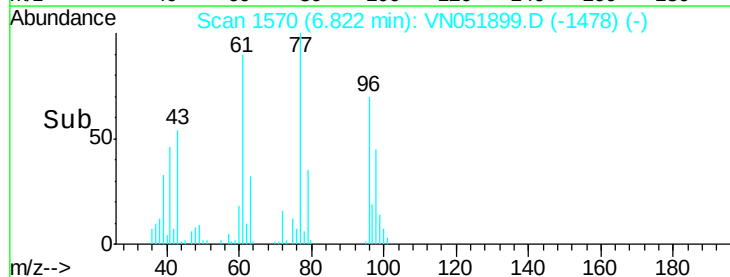
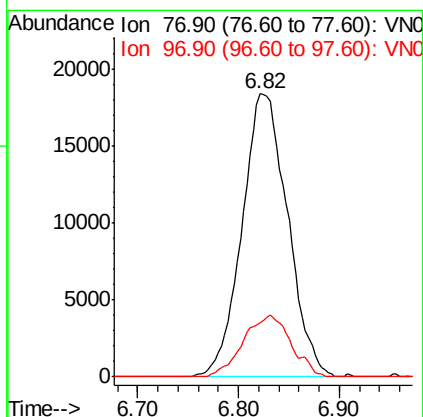
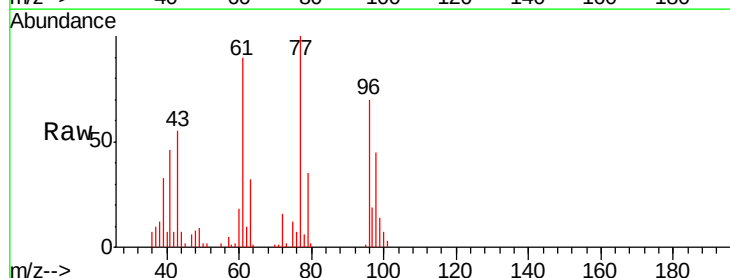
Acq: 17 Oct 2018 9:21

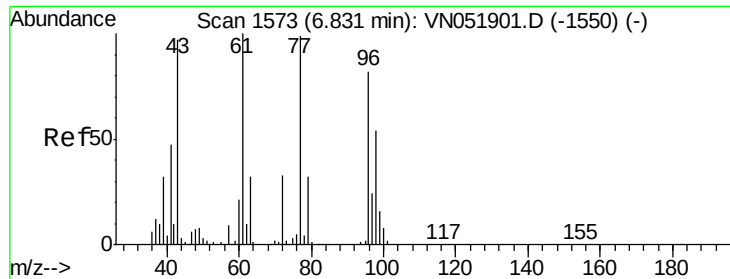
Tgt Ion: 77 Resp: 57744

Ion Ratio Lower Upper

77 100

97 22.7 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 5.23 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

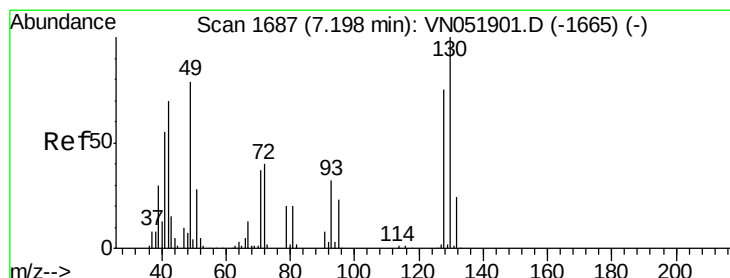
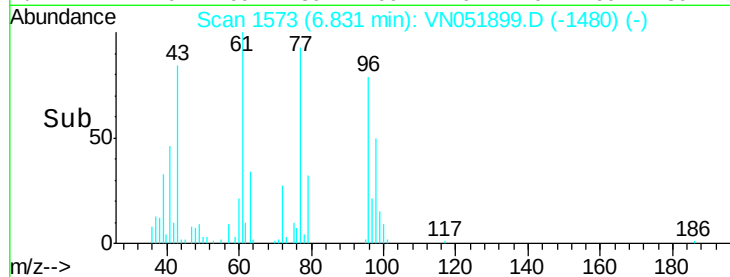
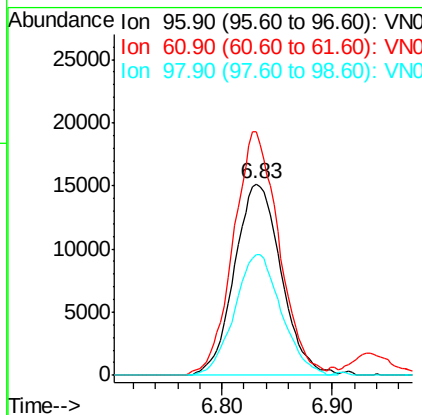
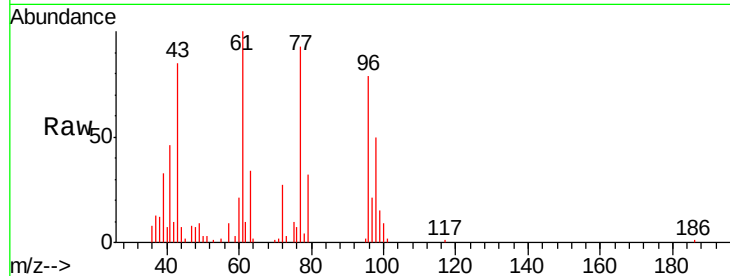
ClientSampleId :

VSTDIC005

Tgt Ion:	96	Resp:	44386
Ion	Ratio	Lower	Upper
96	100		
61	124.2	0.0	240.2
98	63.2	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 5.22 ug/l

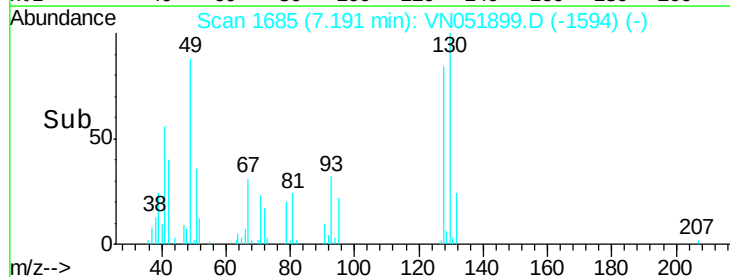
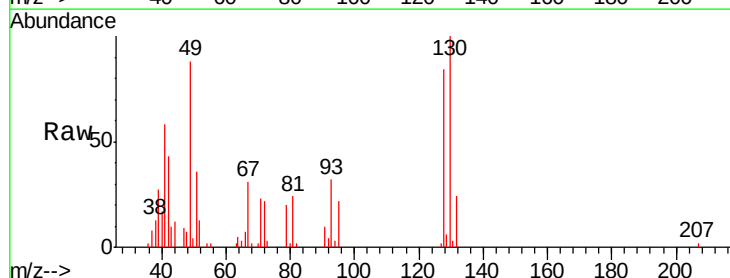
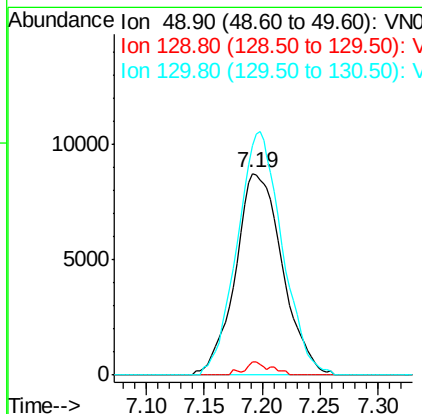
RT: 7.19 min Scan# 1685

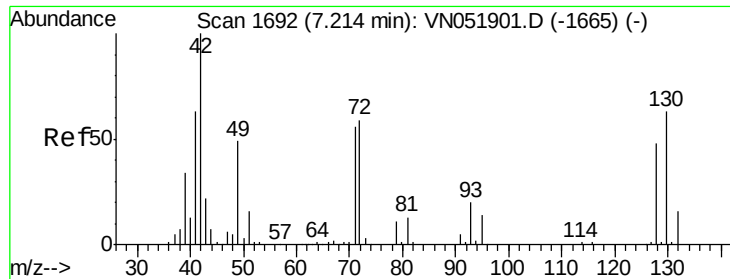
Delta R.T. -0.01 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	49	Resp:	24632
Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	6.0
130	115.5	96.7	145.1





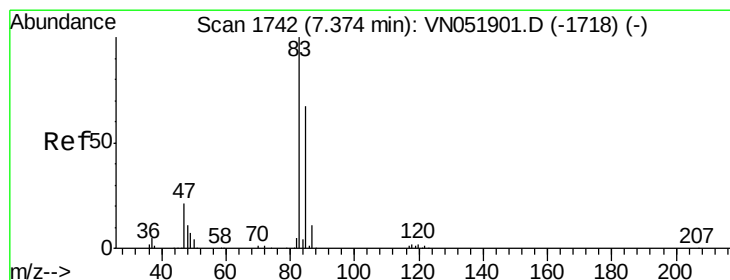
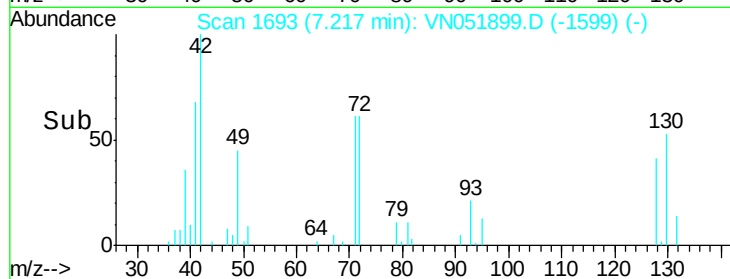
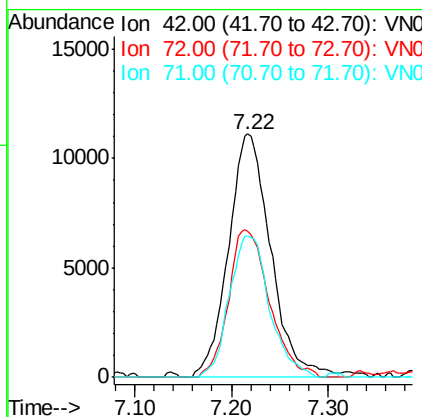
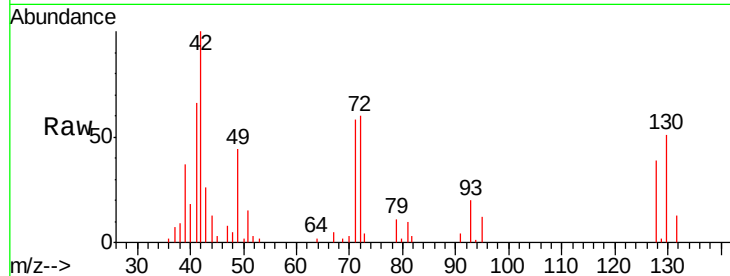
#29
Tetrahydrofuran
Concen: 26.70 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
42	100		
72	57.9	47.7	71.5
71	55.3	45.4	68.0

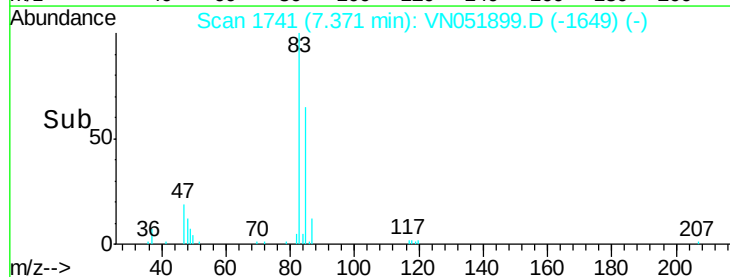
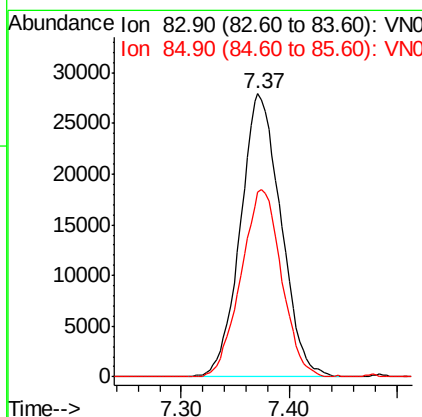
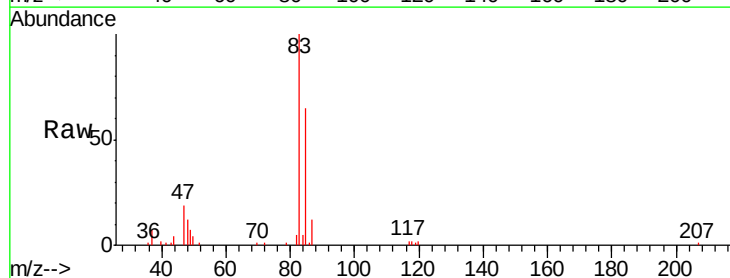
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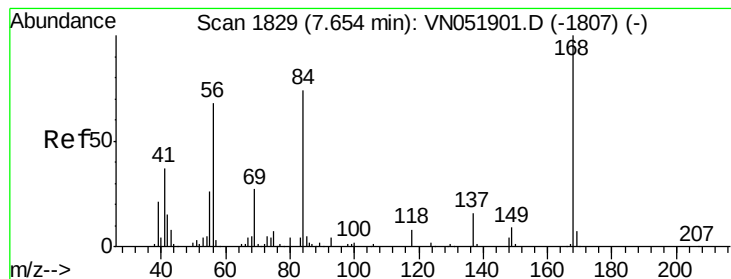
MMDadoda
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#30
Chloroform
Concen: 5.24 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	53.4	80.2





#31

Cyclohexane

Concen: 5.16 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 65174
Ion Ratio Lower Upper

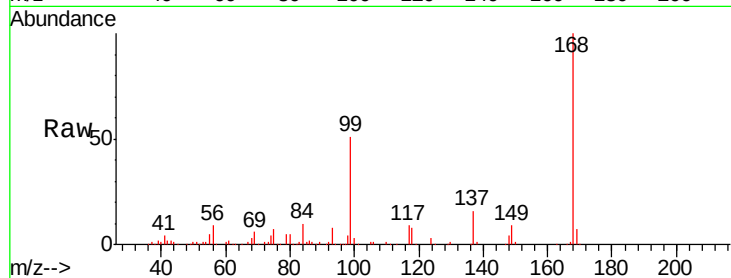
56 100

69 60.0 31.2 46.8#

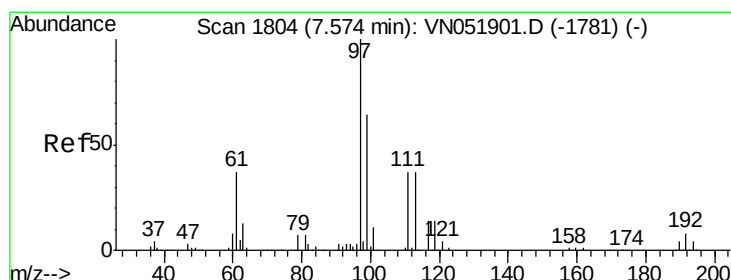
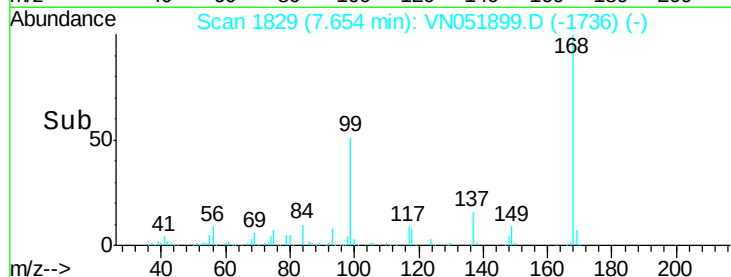
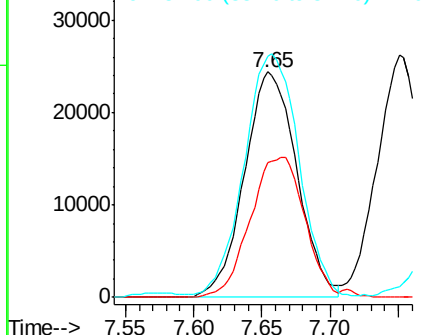
84 105.5 86.6 130.0

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 5.26 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051899.D

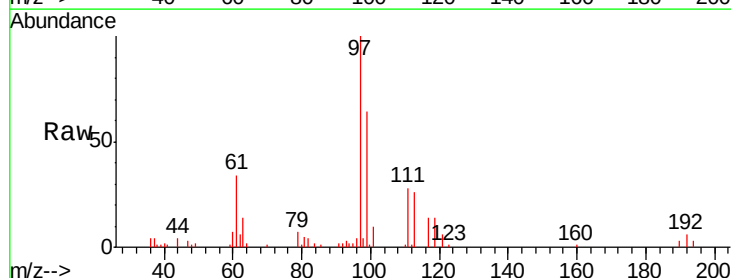
Acq: 17 Oct 2018 9:21

Tgt Ion: 97 Resp: 68222
Ion Ratio Lower Upper

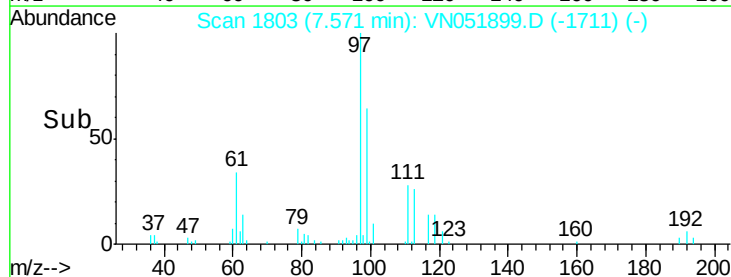
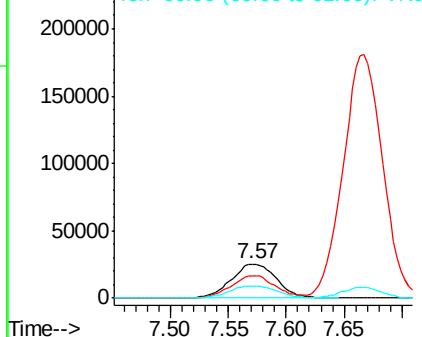
97 100

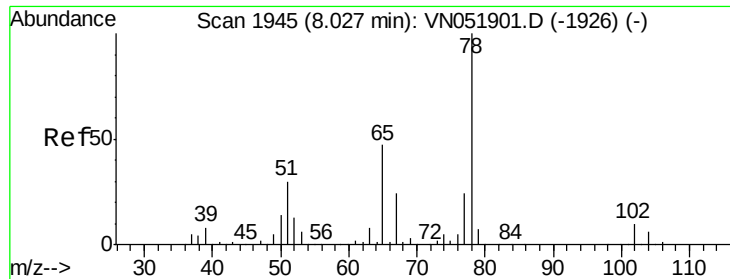
99 64.0 51.3 76.9

61 37.4 29.8 44.6



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





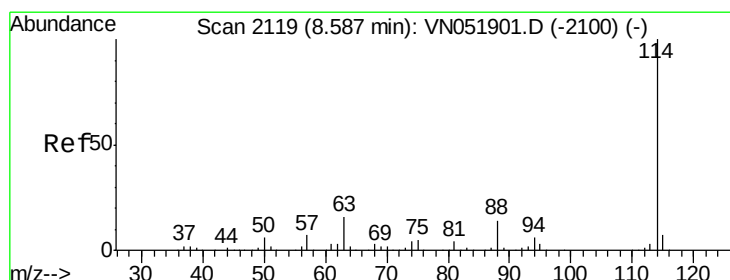
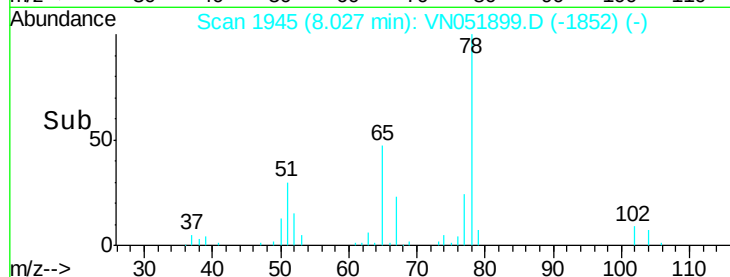
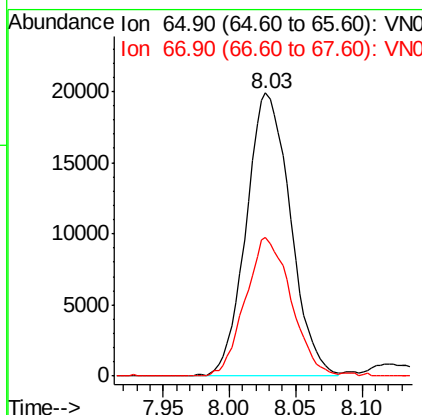
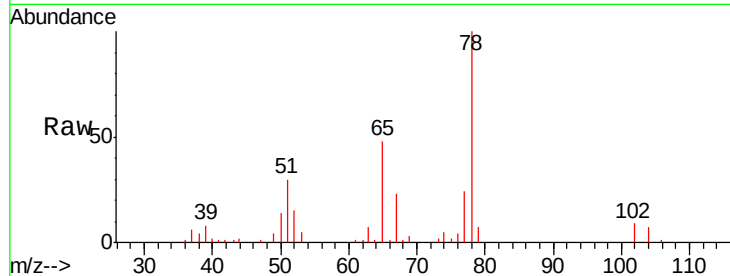
#33
 1,2-Dichloroethane-d4
 Concen: 5.26 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 65 Resp: 46042
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.0

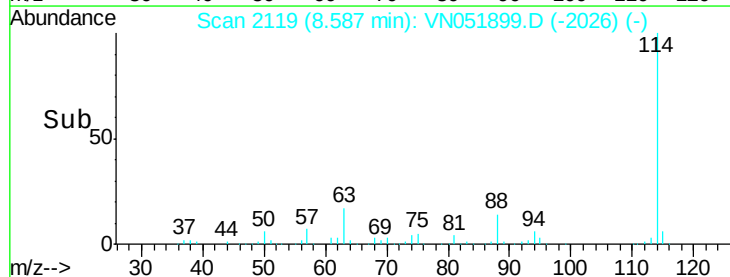
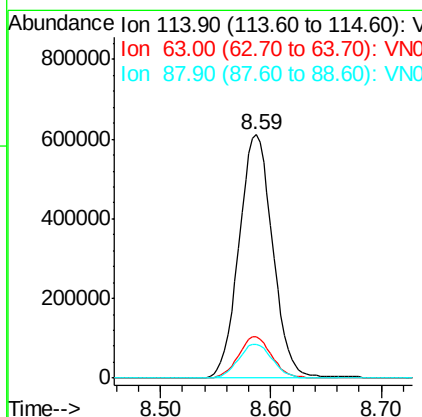
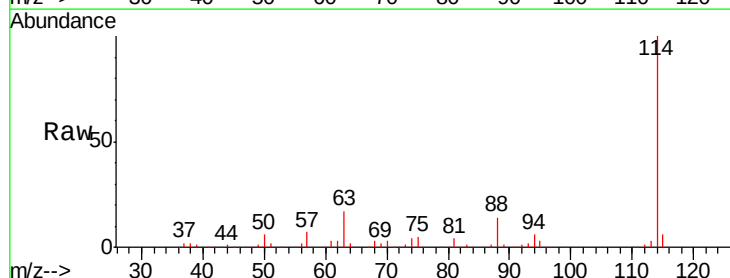
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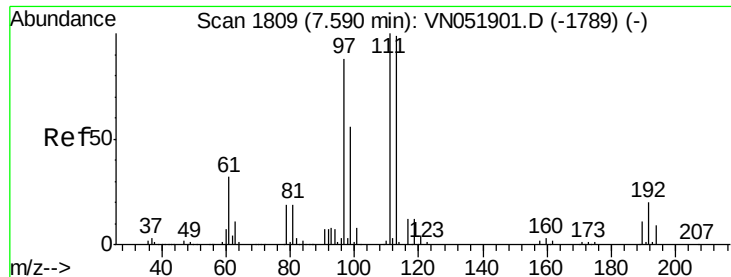
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion: 114 Resp: 1292865
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 31.8
 88 13.9 0.0 28.0





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

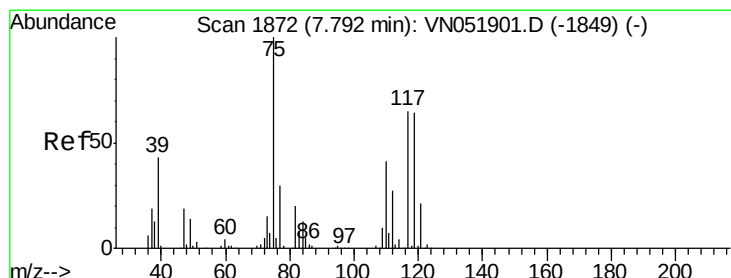
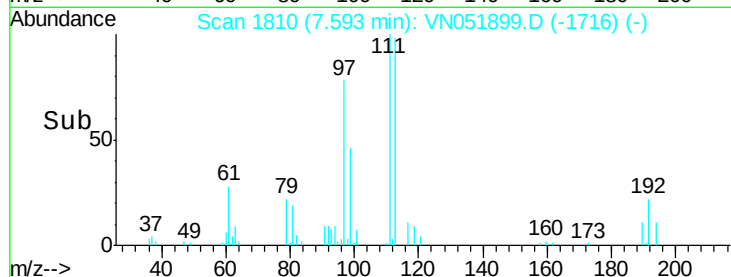
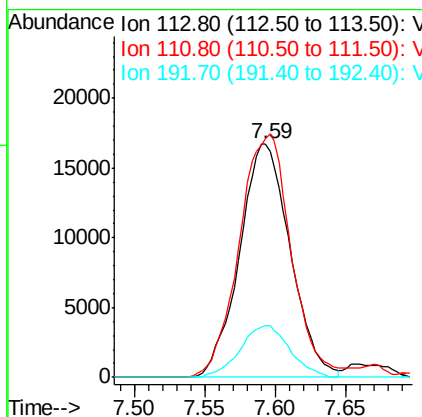
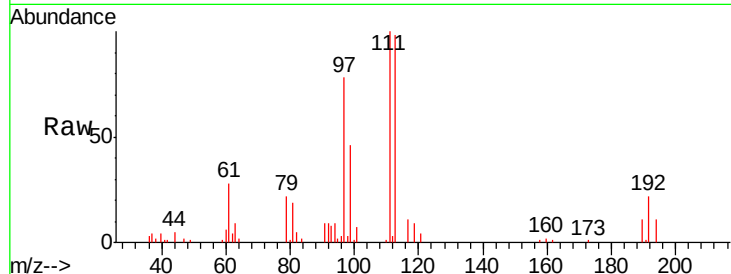
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	42001
Ion	Ratio	Lower	Upper
113	100		
111	107.5	82.6	123.8
192	21.8	17.3	25.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 5.24 ug/l

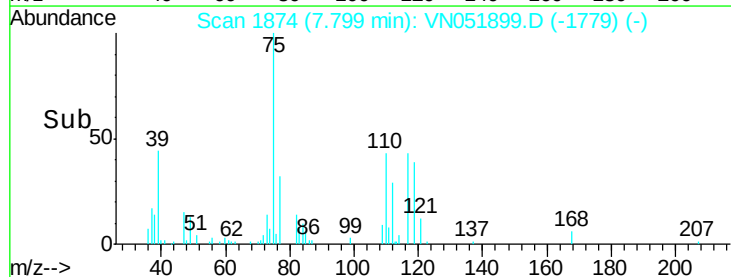
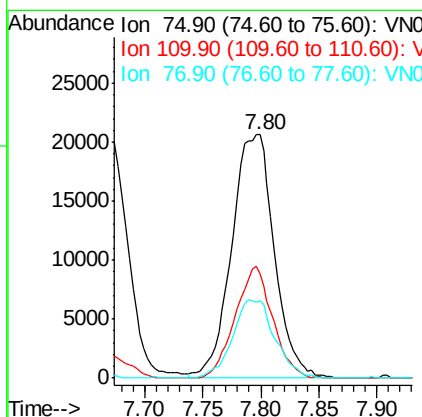
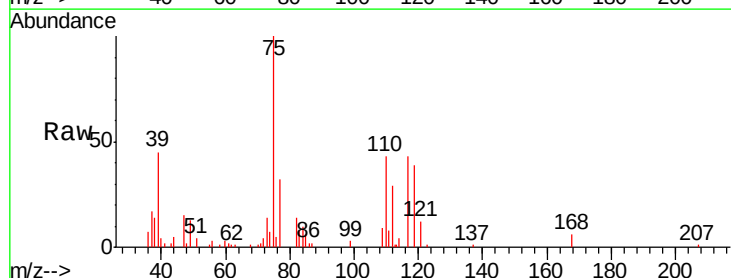
RT: 7.80 min Scan# 1874

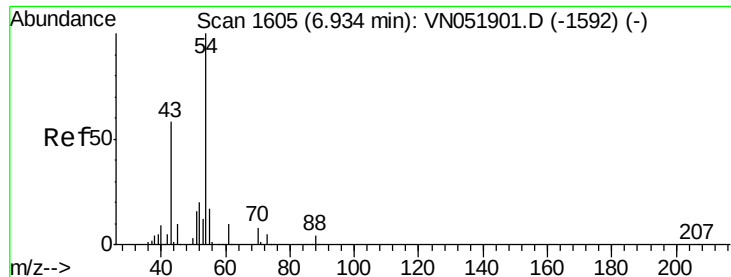
Delta R.T. 0.01 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	75	Resp:	52624
Ion	Ratio	Lower	Upper
75	100		
110	40.3	21.0	63.0
77	31.6	24.9	37.3





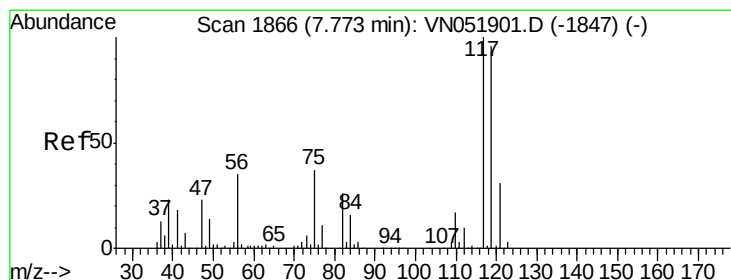
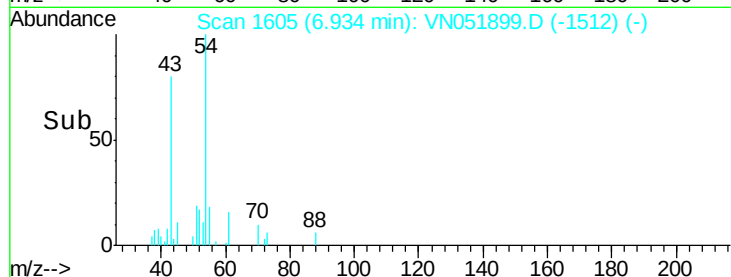
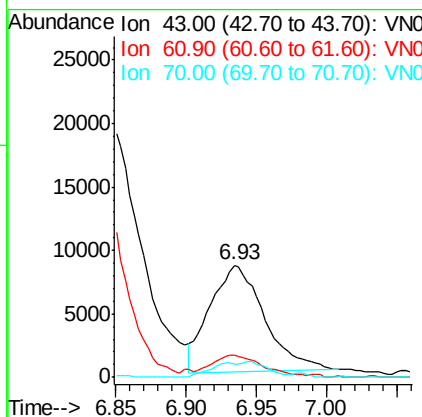
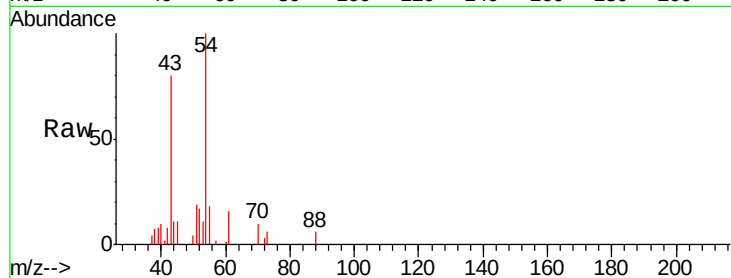
#37
Ethyl Acetate
Concen: 5.11 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.2	13.0	19.6
70	7.3	10.4	15.6

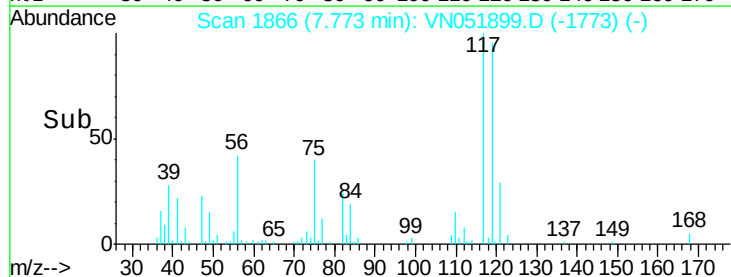
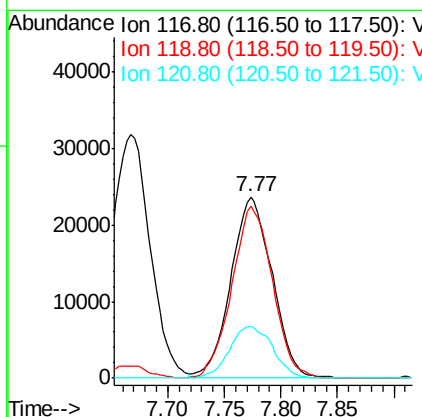
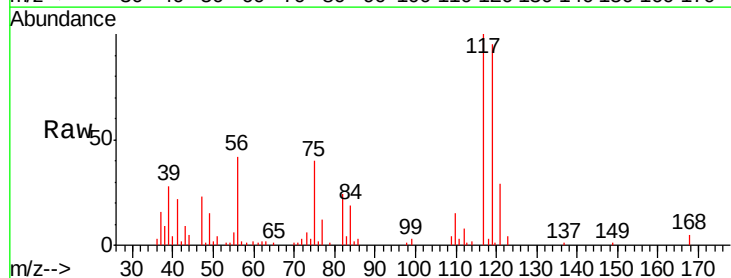
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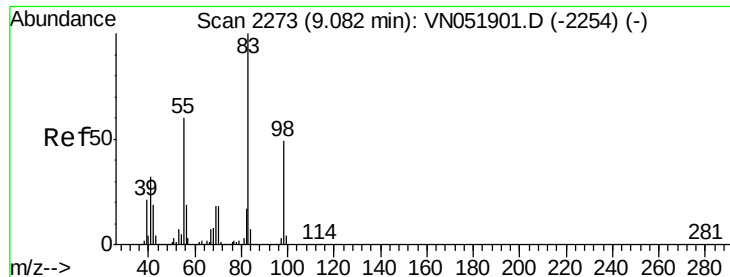
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#38
Carbon Tetrachloride
Concen: 5.10 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.0	115.6
121	28.6	25.1	37.7





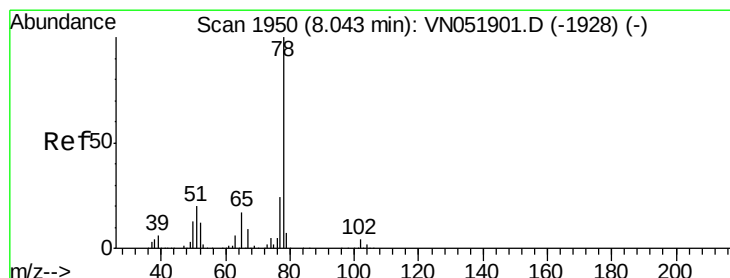
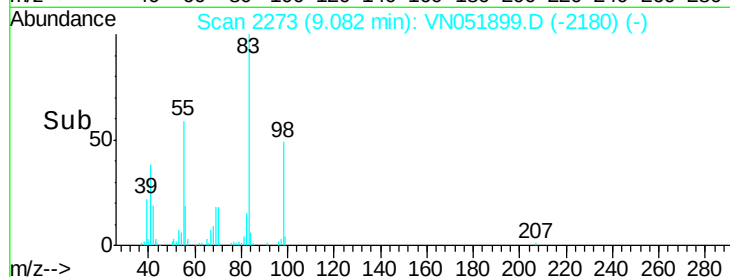
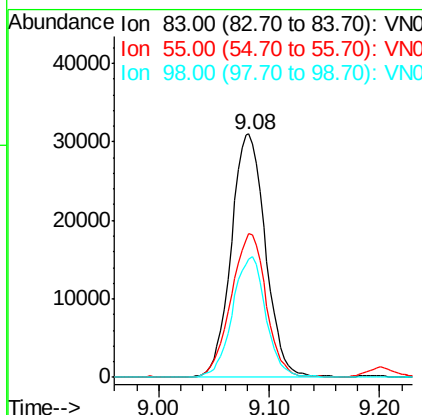
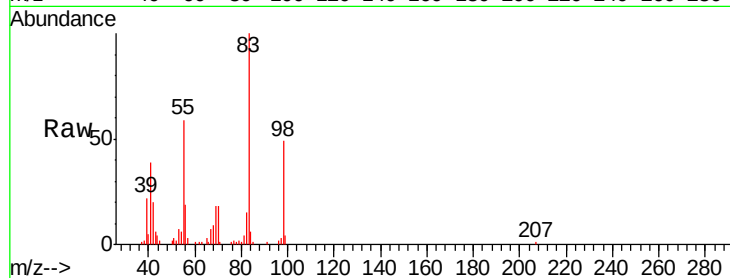
#39
Methylcyclohexane
Concen: 5.37 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
83	100		
55	59.2	47.8	71.8
98	48.7	39.0	58.4

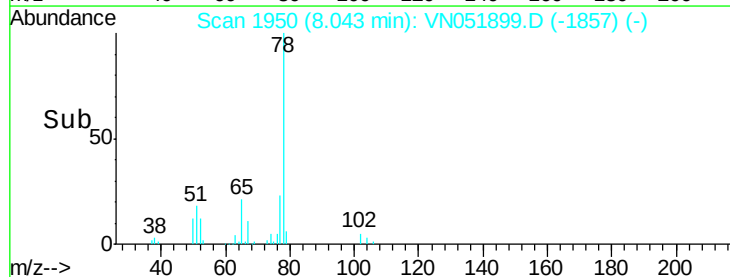
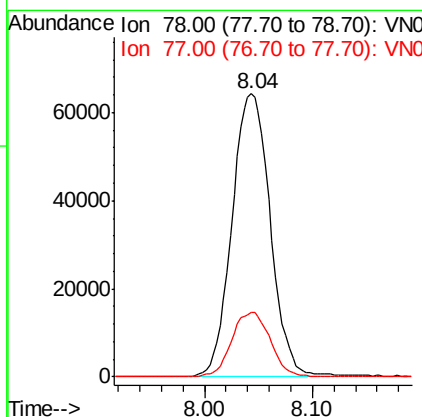
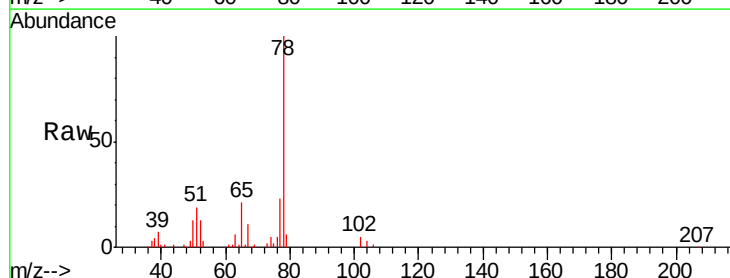
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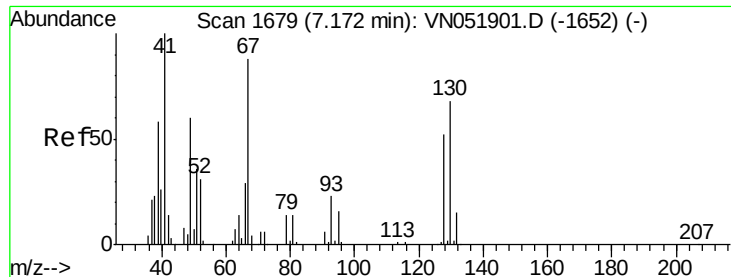
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#40
Benzene
Concen: 5.42 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3





#41

Methacrylonitrile

Concen: 6.18 ug/l m

RT: 7.19 min Scan# 1685

Delta R.T. 0.02 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 14086
Ion Ratio Lower Upper

41 100

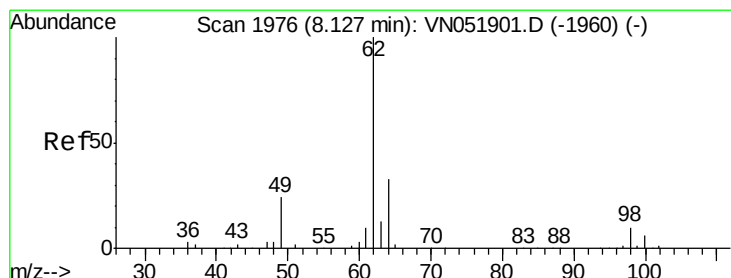
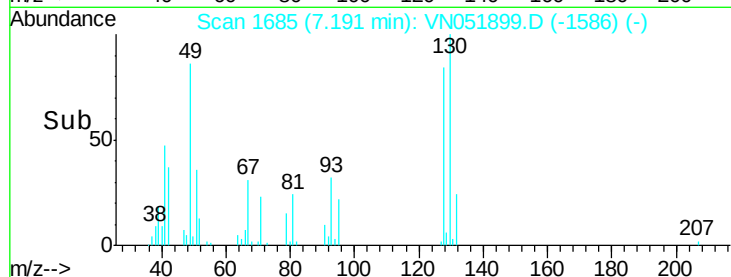
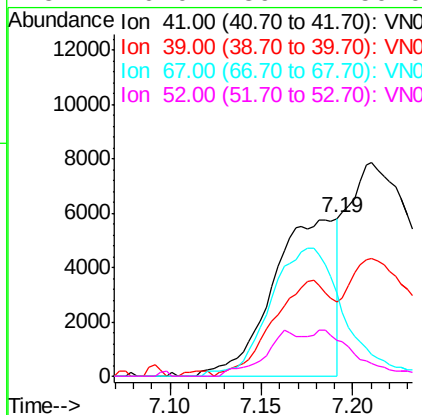
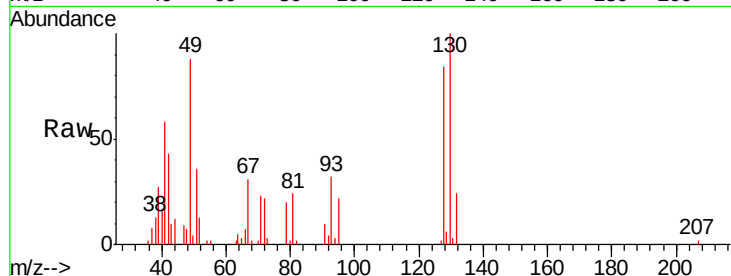
39 84.5 56.1 84.1#

67 0.0 106.5 159.7#

52 0.0 39.4 59.0#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 5.58 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

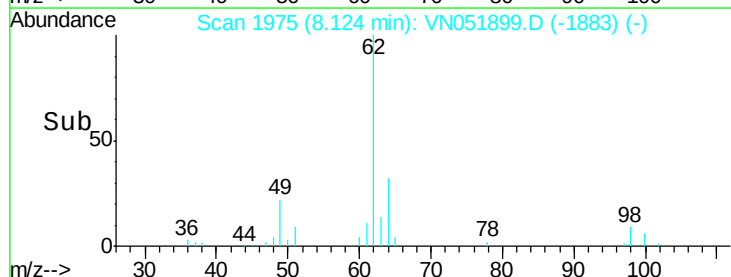
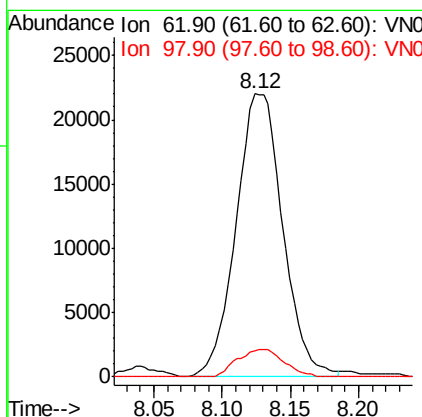
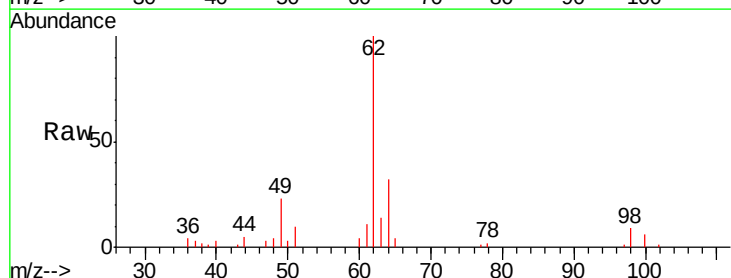
Lab File: VN051899.D

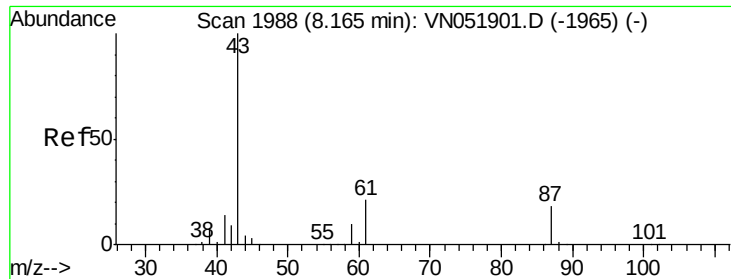
Acq: 17 Oct 2018 9:21

Tgt Ion: 62 Resp: 52391
Ion Ratio Lower Upper

62 100

98 9.7 0.0 19.6





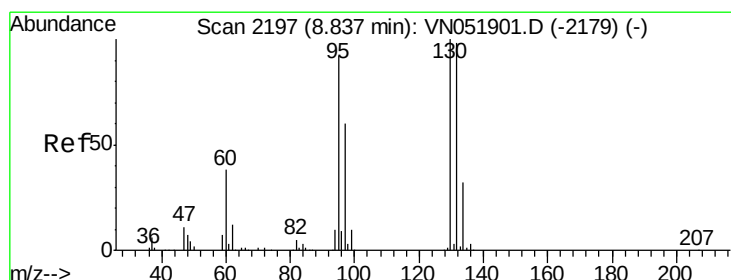
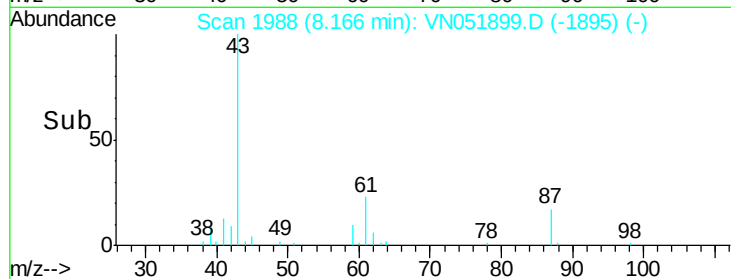
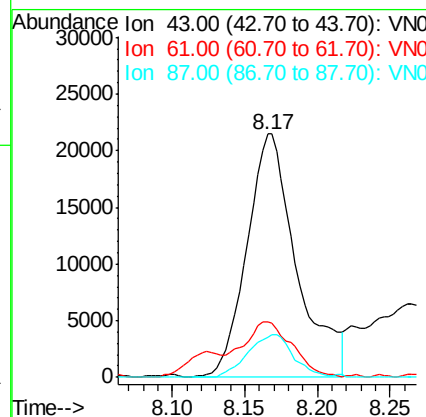
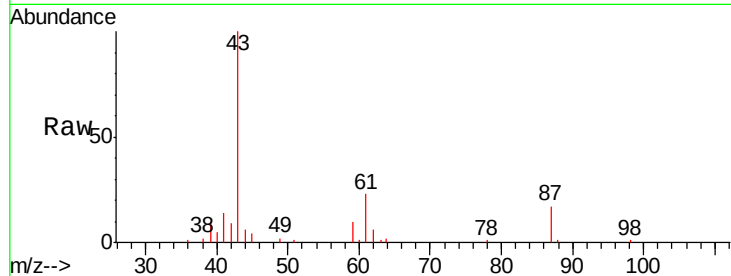
#43
Isopropyl Acetate
Concen: 5.78 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
61	22.6	24.9	37.3#
87	15.9	14.6	22.0

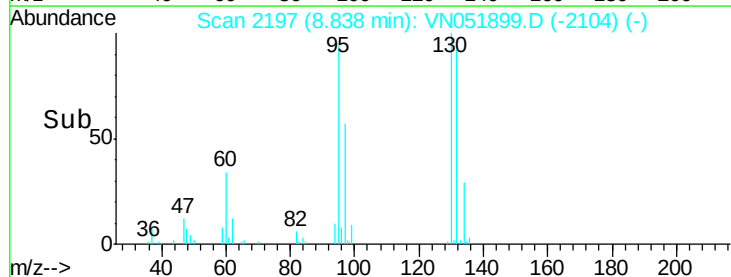
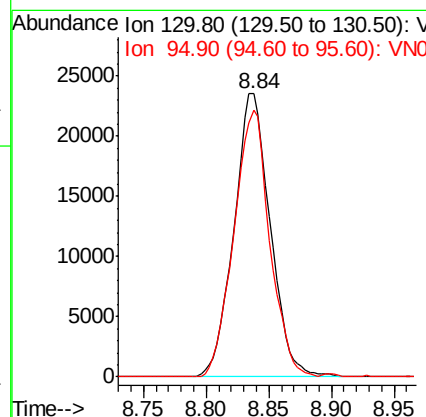
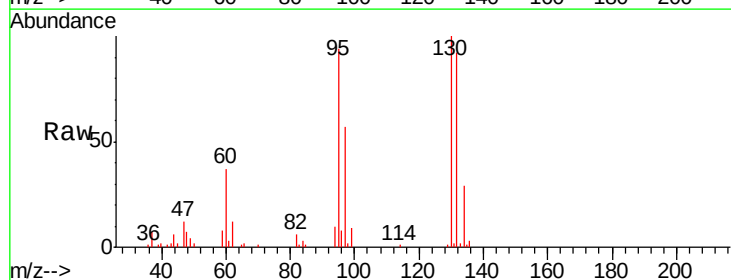
Manual Integrations
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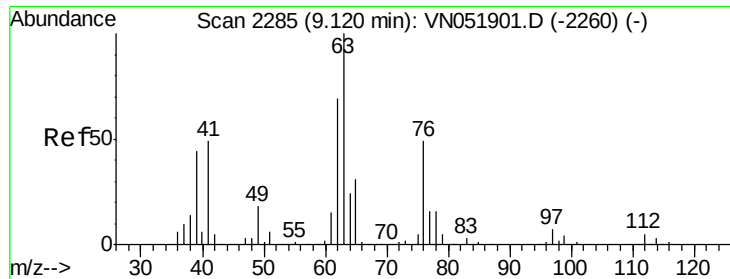
MMDadoda
10/19/2018 3:29:09 PM



#44
Trichloroethene
Concen: 5.14 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	183.2





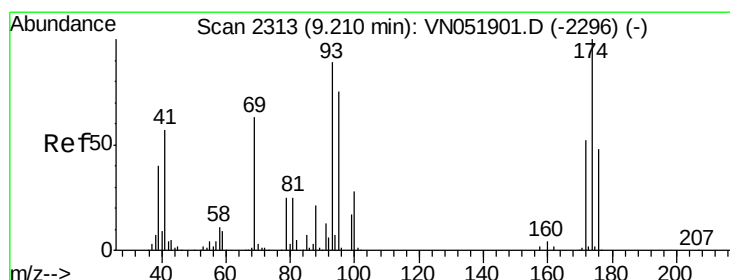
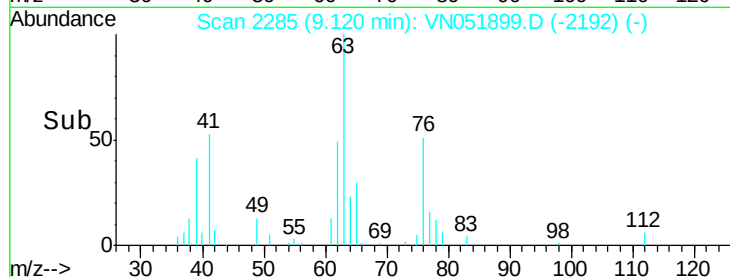
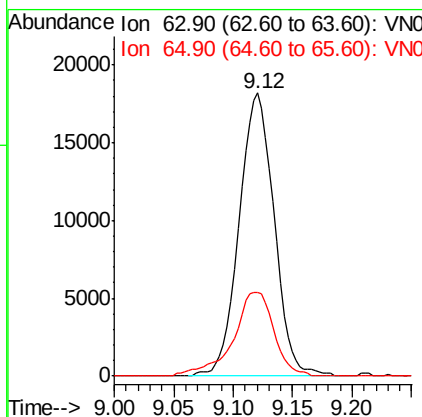
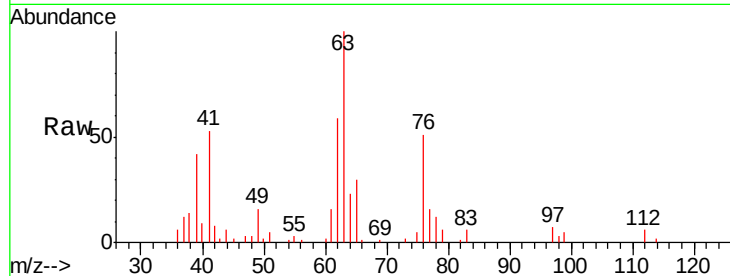
#45
 1,2-Dichloropropane
 Concen: 5.48 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 63 Resp: 37124
 Ion Ratio Lower Upper
 63 100
 65 29.7 24.9 37.3

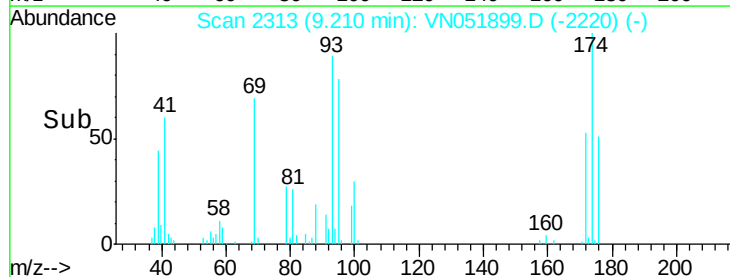
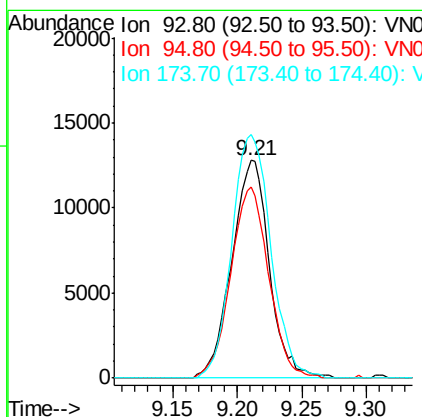
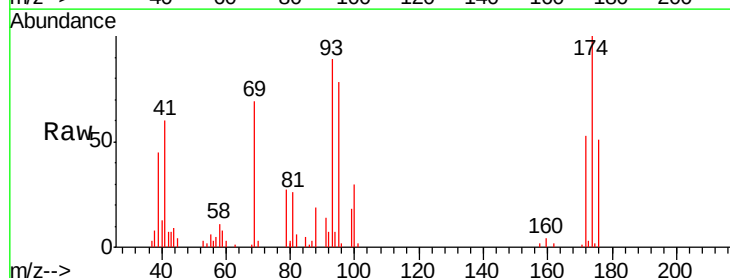
Manual Integrations
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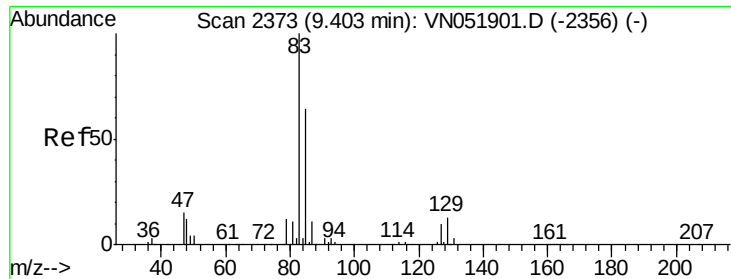
MMDadoda
 10/19/2018 3:29:09 PM



#46
 Dibromomethane
 Concen: 5.02 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion: 93 Resp: 25932
 Ion Ratio Lower Upper
 93 100
 95 88.6 67.8 101.6
 174 116.6 91.9 137.9





#47

Bromodichloromethane

Concen: 4.83 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

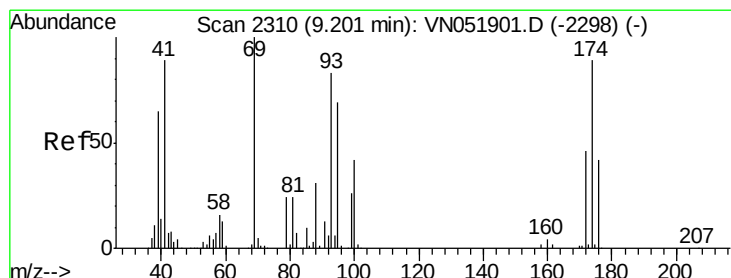
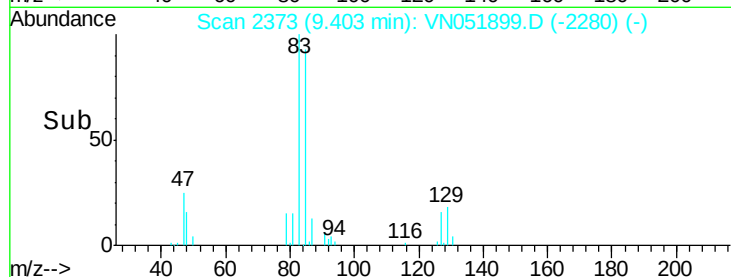
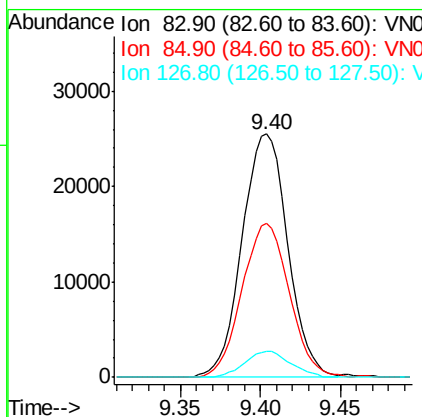
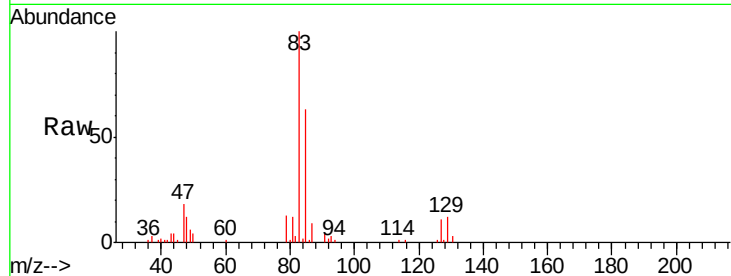
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	50045
Ion Ratio	Lower	Upper	
83	100		
85	63.4	51.4	77.2
127	10.6	7.9	11.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 5.26 ug/l

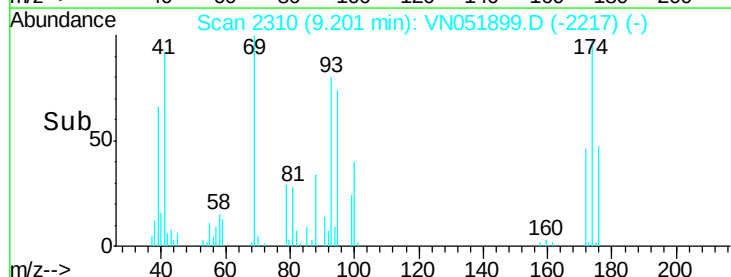
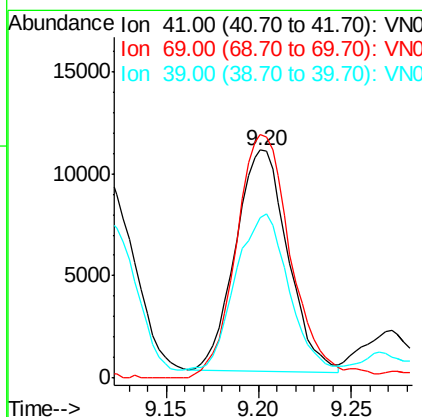
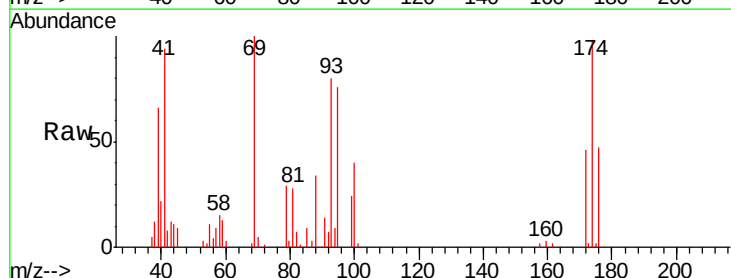
RT: 9.20 min Scan# 2310

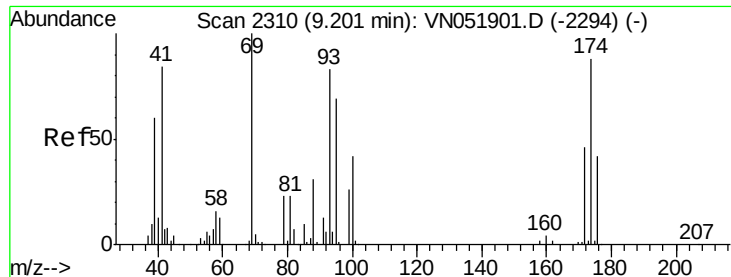
Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	41	Resp:	21321
Ion Ratio	Lower	Upper	
41	100		
69	113.8	90.2	135.2
39	76.2	59.7	89.5





#49

1,4-Dioxane

Concen: 108.03 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

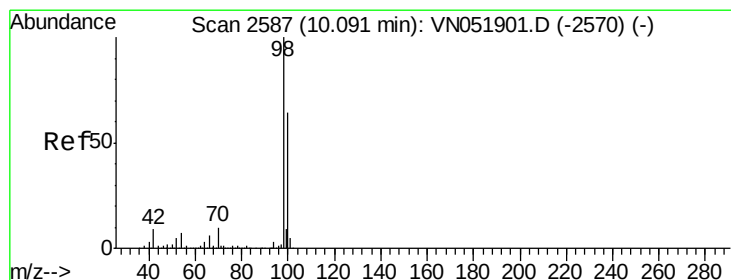
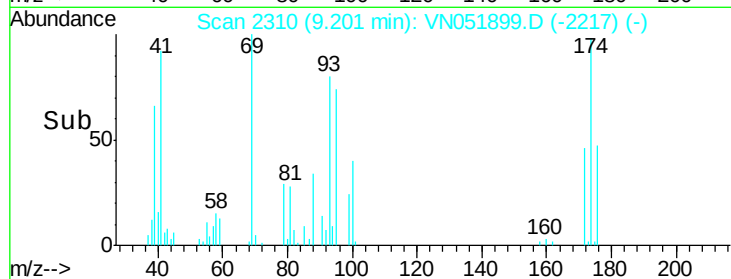
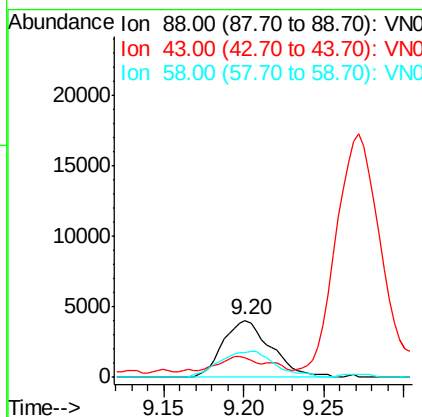
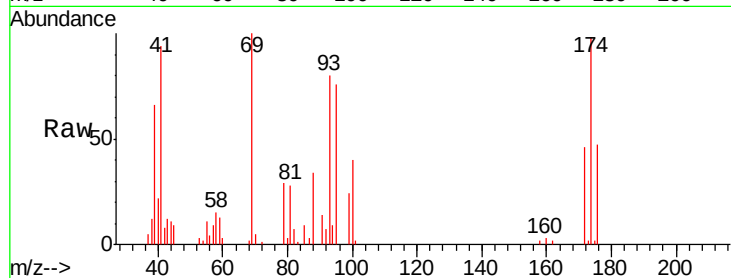
ClientSampleId :

VSTDIC005

Tgt Ion	Ratio	Lower	Upper
88	100		
43	17.3	19.7	29.5#
58	52.5	42.6	64.0

Manual Integrations
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#50

Toluene-d8

Concen: 108.03 ug/l

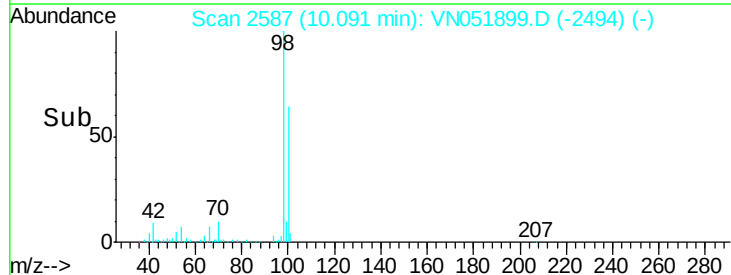
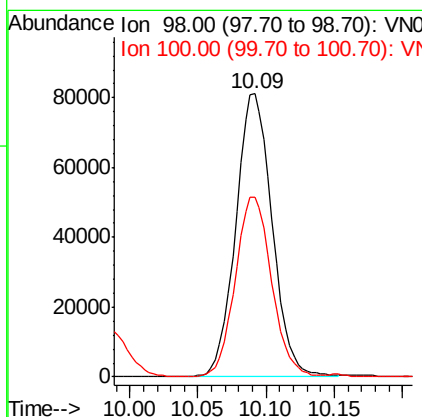
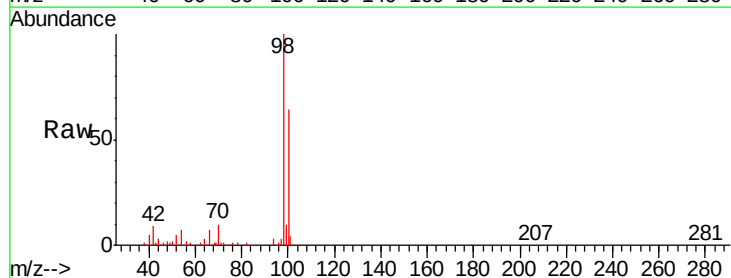
RT: 10.09 min Scan# 2587

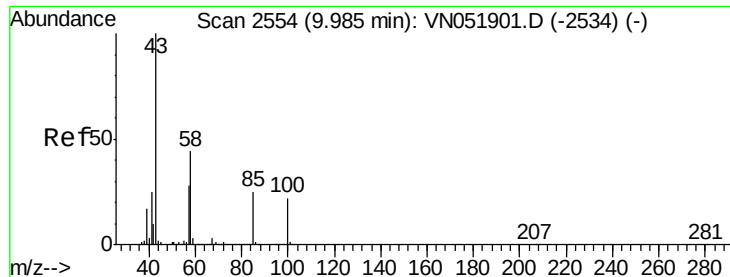
Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.7	51.0	76.4





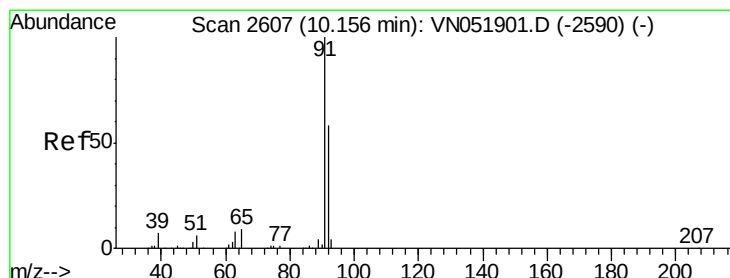
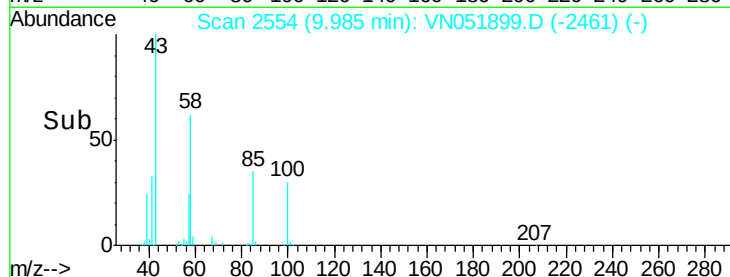
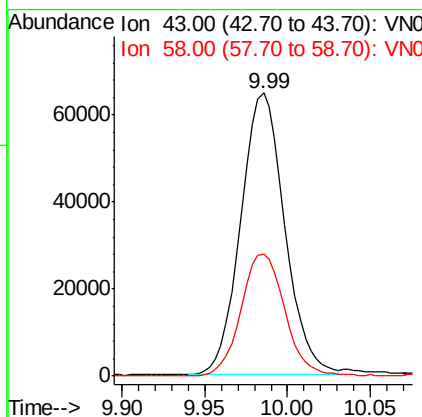
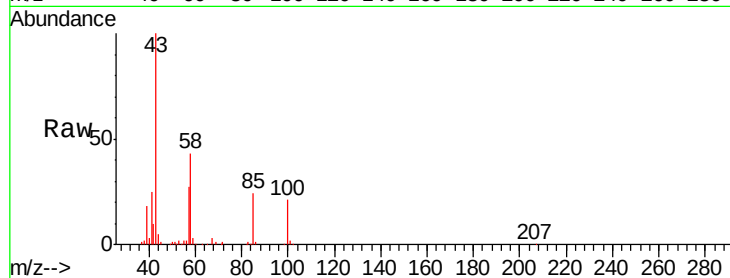
#51
 4-Methyl-2-Pentanone
 Concen: 25.65 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 43 Resp: 119814
 Ion Ratio Lower Upper
 43 100
 58 43.4 34.6 52.0

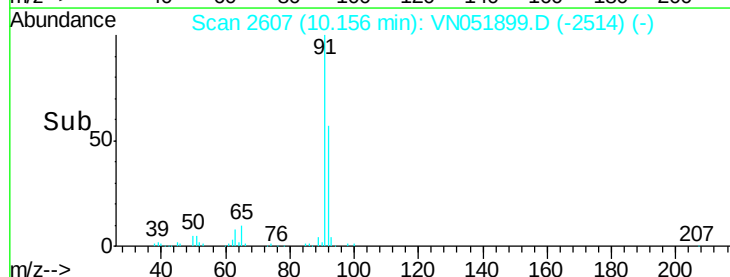
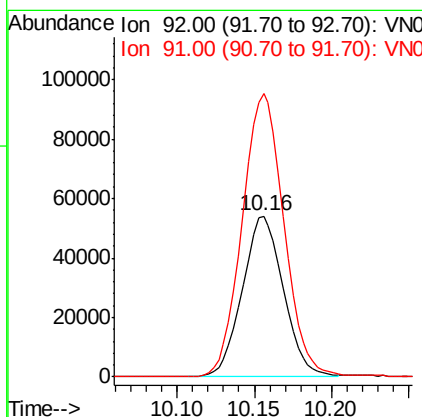
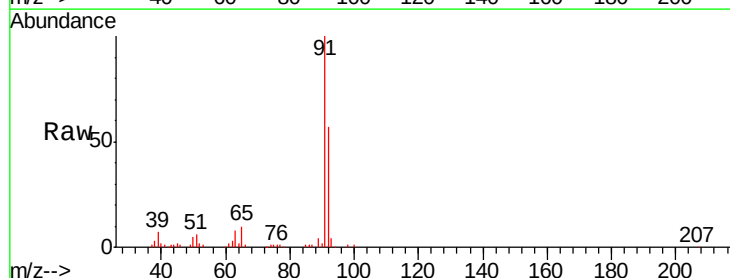
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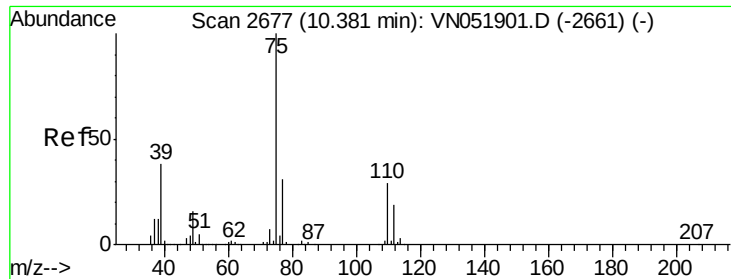
MMDadoda
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#52
 Toluene
 Concen: 5.10 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion: 92 Resp: 100082
 Ion Ratio Lower Upper
 92 100
 91 179.0 139.8 209.6





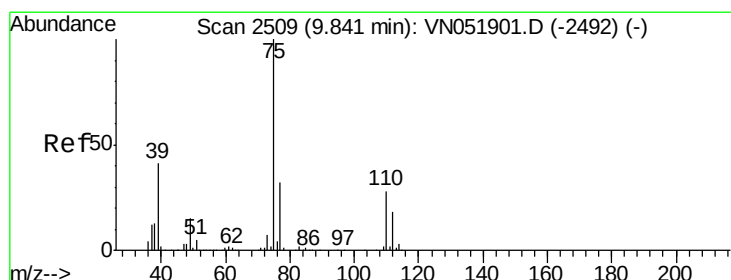
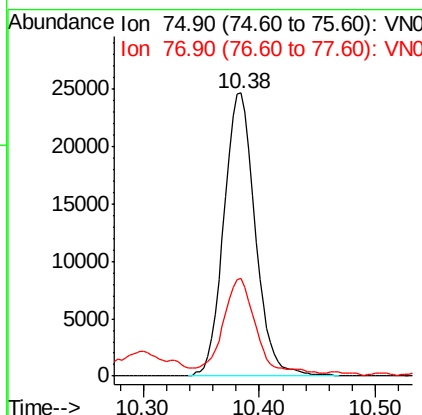
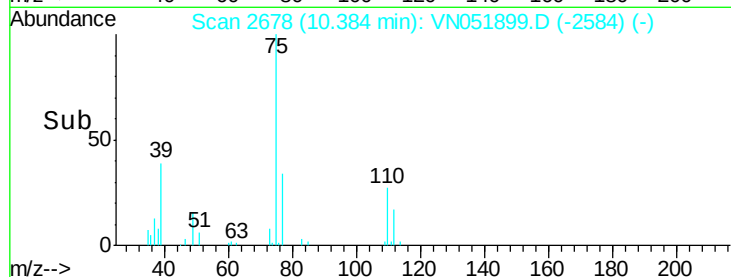
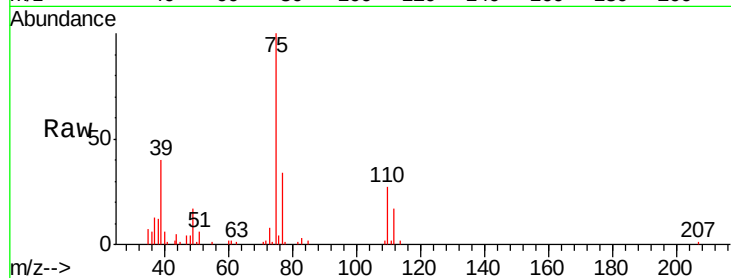
#53
t-1,3-Dichloropropene
Concen: 4.70 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 46163
Ion Ratio Lower Upper
75 100
77 33.1 25.4 38.0

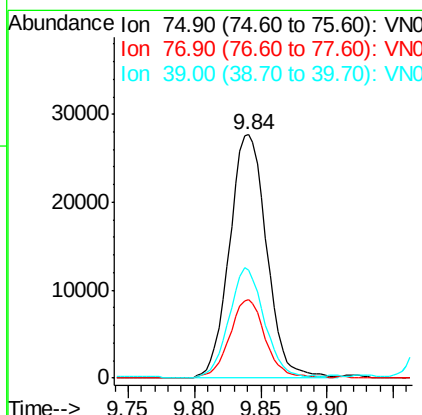
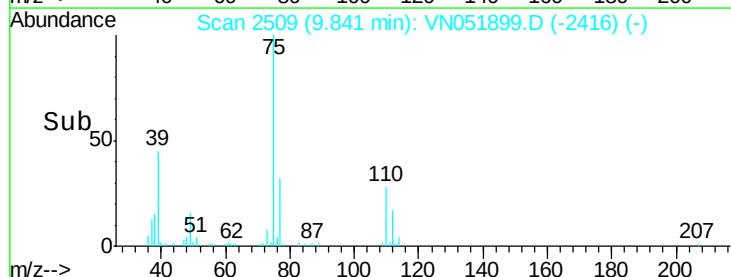
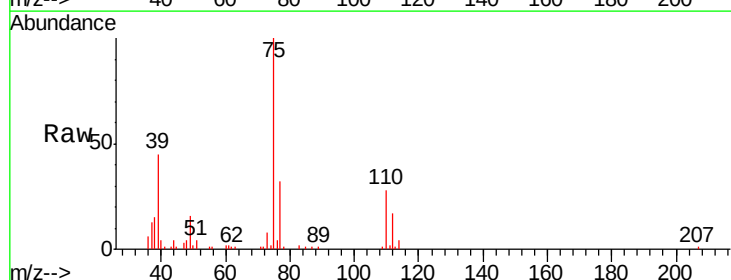
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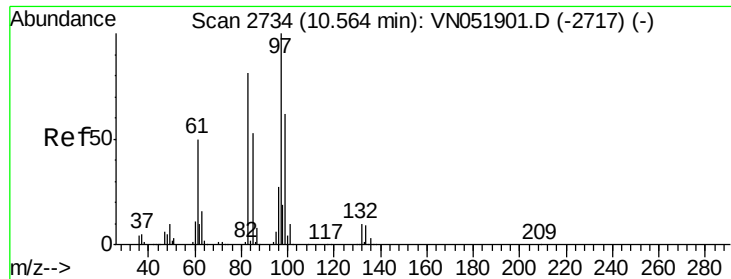
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 4.93 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 75 Resp: 53914
Ion Ratio Lower Upper
75 100
77 32.3 25.3 37.9
39 44.6 32.8 49.2





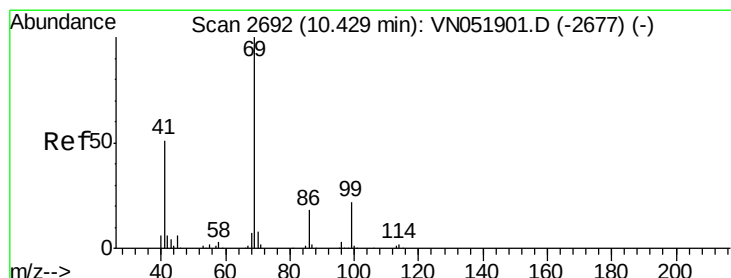
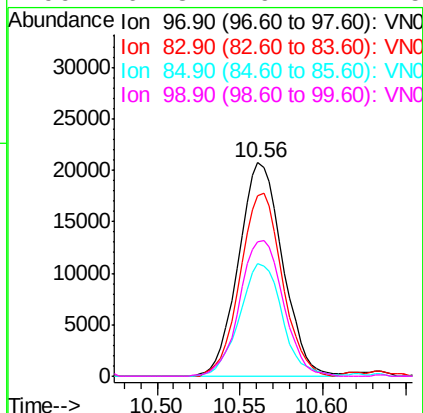
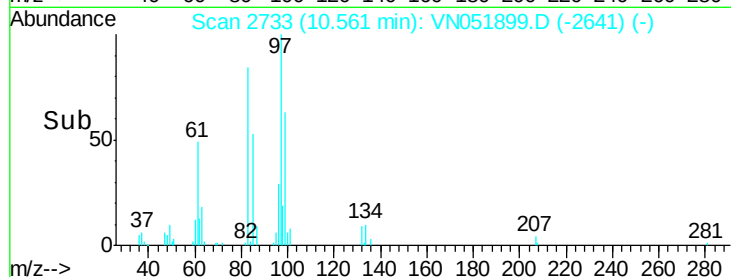
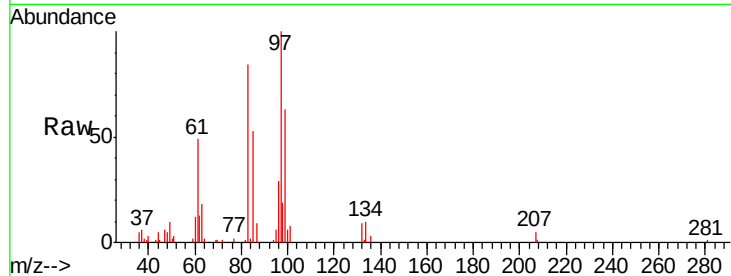
#55
 1,1,2-Trichloroethane
 Concen: 5.33 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.5	64.6	96.8
85	52.6	42.3	63.5
99	62.8	49.7	74.5

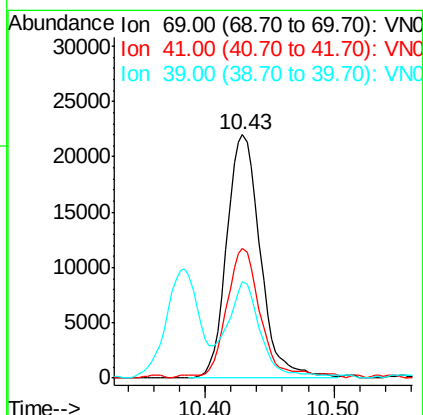
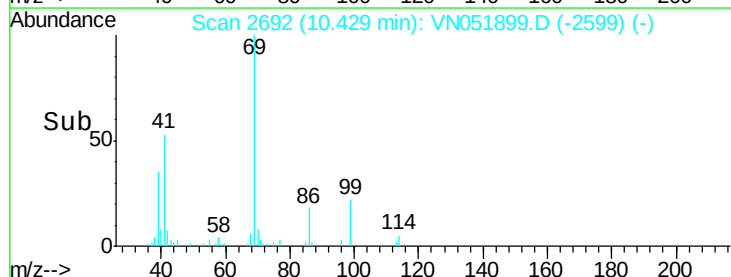
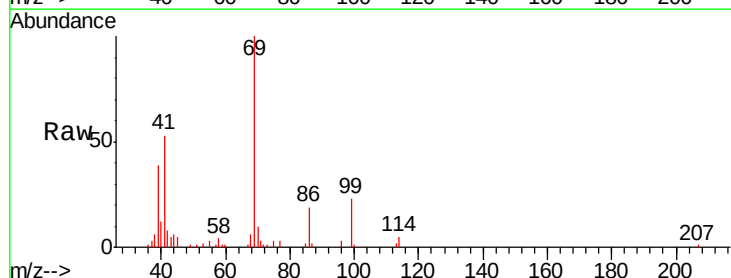
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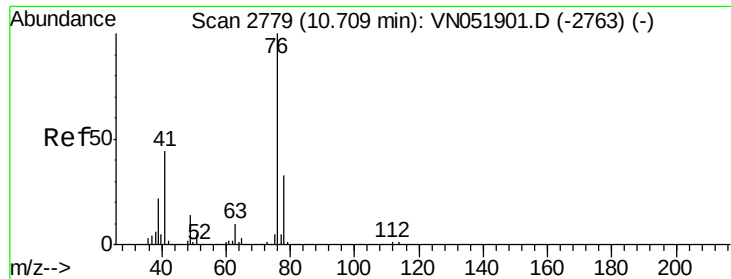
MMDadoda
 10/19/2018 3:29:09 PM



#56
 Ethyl methacrylate
 Concen: 4.96 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
69	100		
41	50.1	40.6	61.0
39	36.6	29.4	44.0





#57

1,3-Dichloropropane

Concen: 5.19 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 56744

Ion Ratio Lower Upper

76 100

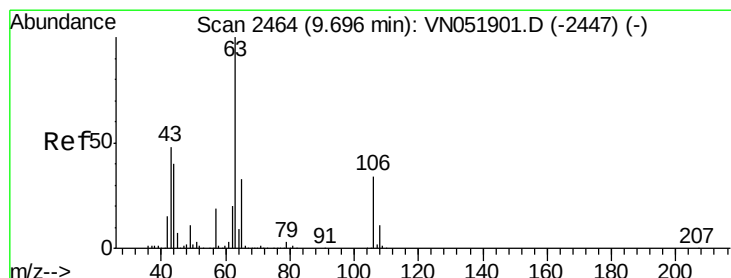
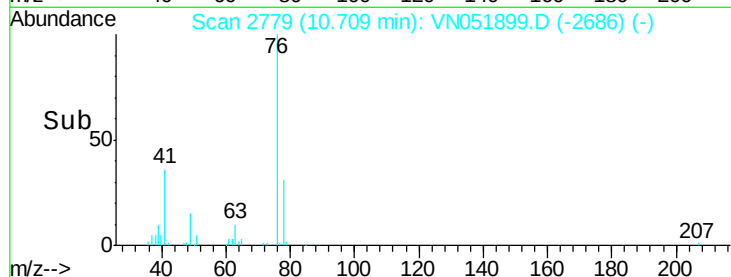
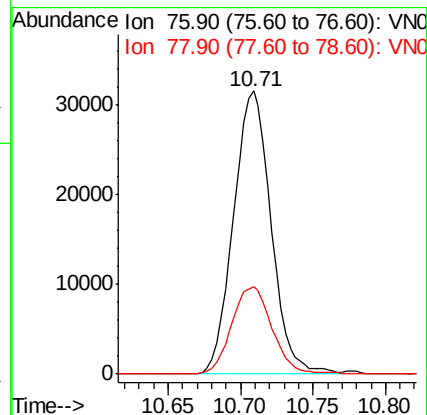
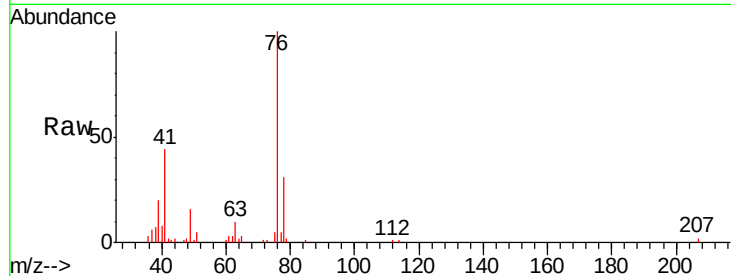
78 33.2 25.8 38.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 25.02 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051899.D

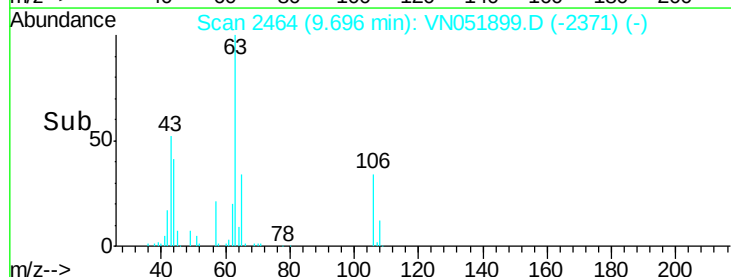
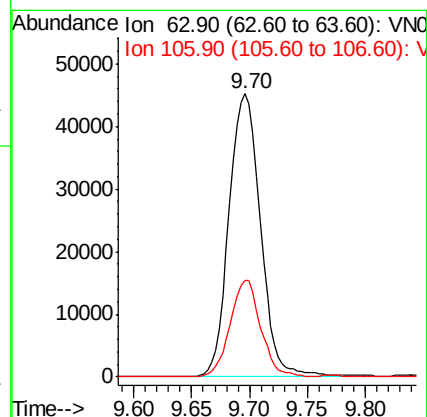
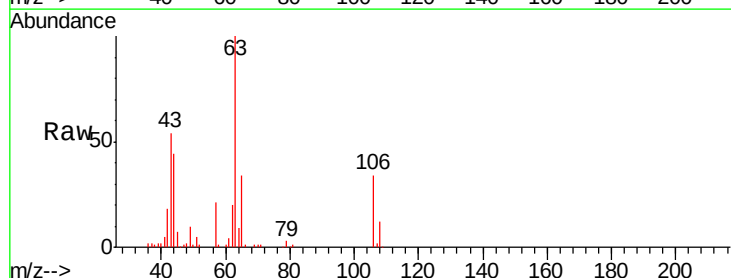
Acq: 17 Oct 2018 9:21

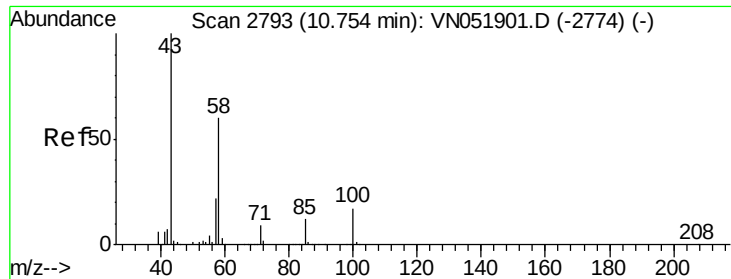
Tgt Ion: 63 Resp: 85134

Ion Ratio Lower Upper

63 100

106 32.9 27.5 41.3





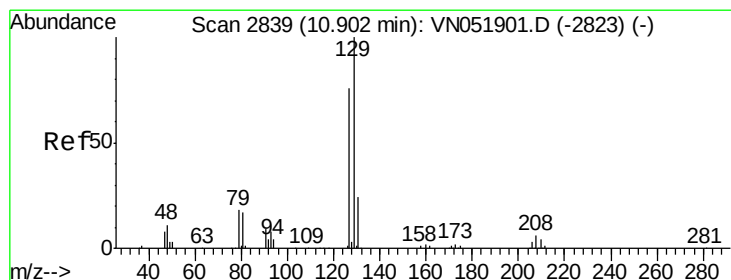
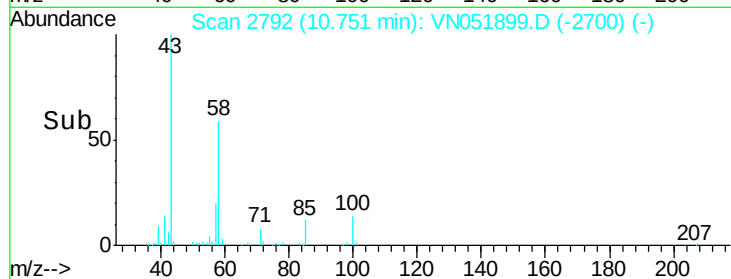
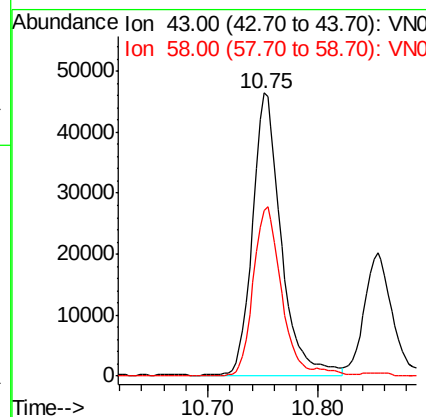
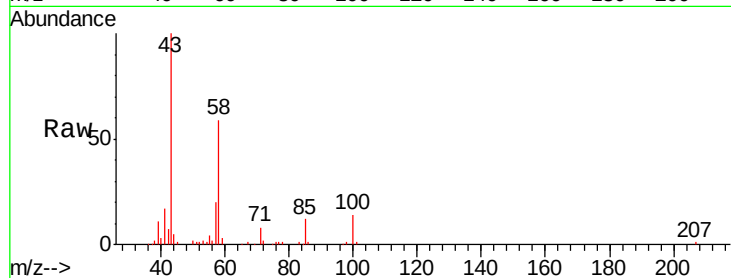
#59
2-Hexanone
Concen: 26.88 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 84191
Ion Ratio Lower Upper
43 100
58 57.3 29.8 89.5

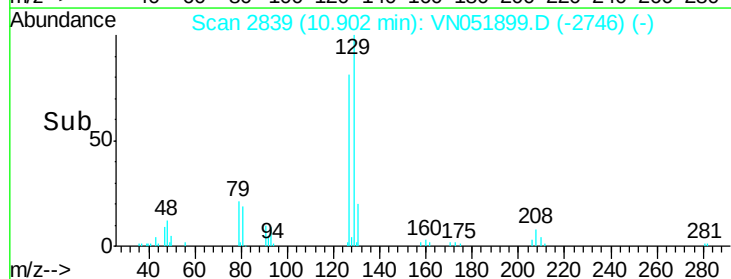
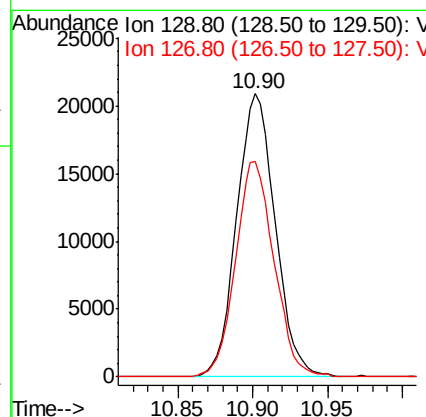
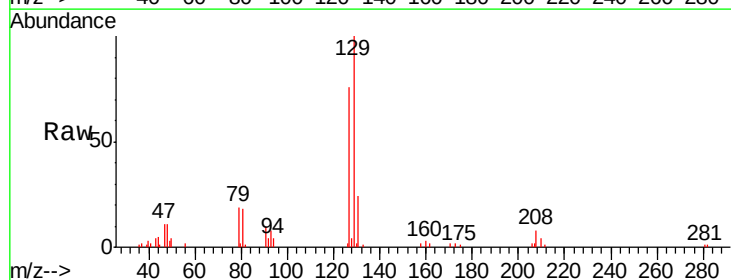
Manual Integrations
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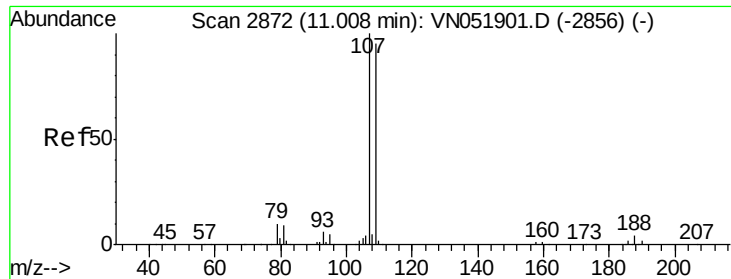
MMDadoda
10/19/2018 3:29:09 PM



#60
Dibromochloromethane
Concen: 4.45 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 129 Resp: 37485
Ion Ratio Lower Upper
129 100
127 76.1 38.3 114.8





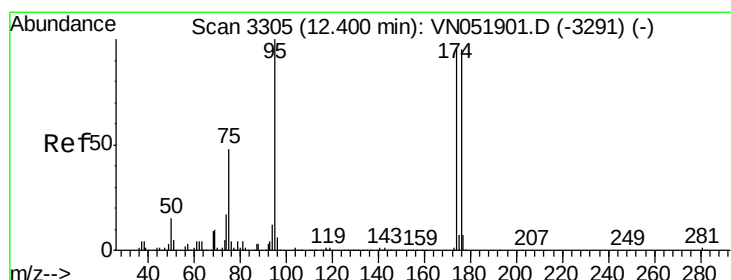
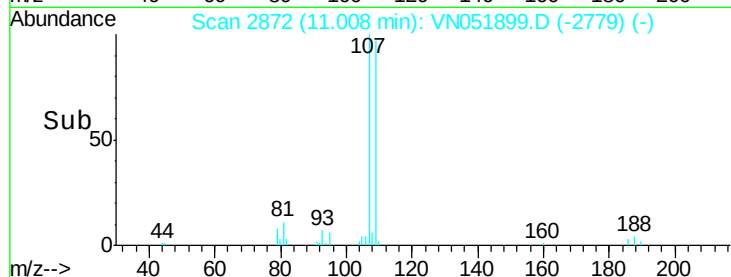
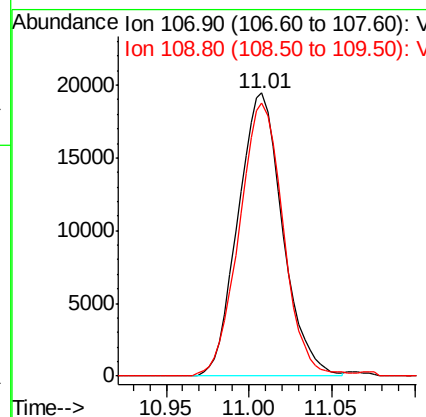
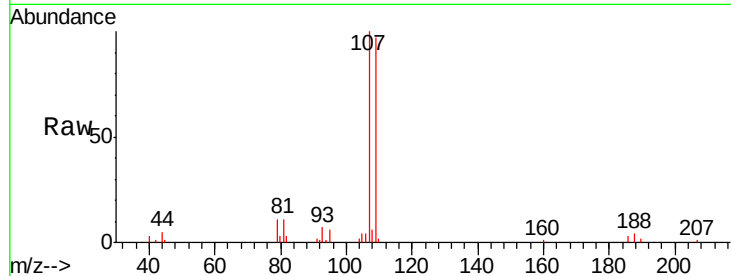
#61
 1,2-Dibromoethane
 Concen: 4.84 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.0	112.6

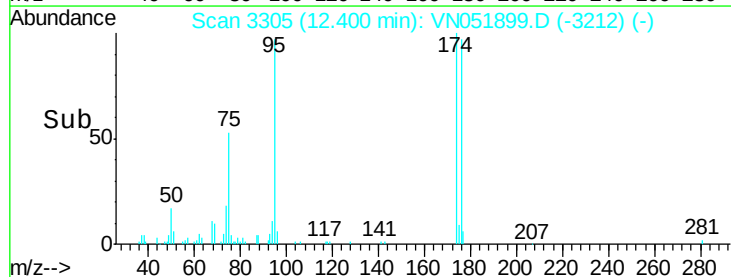
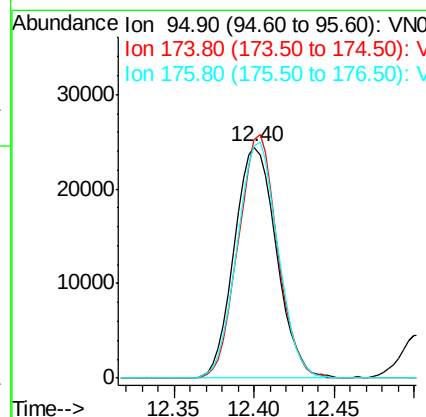
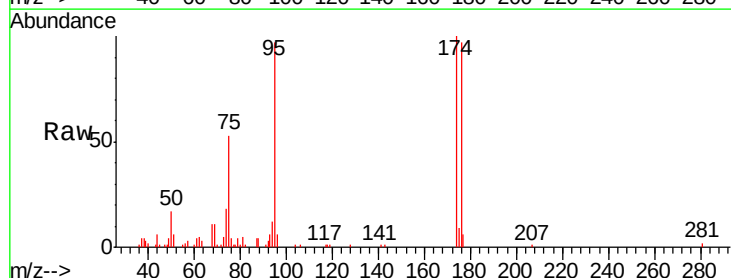
Manual Integrations
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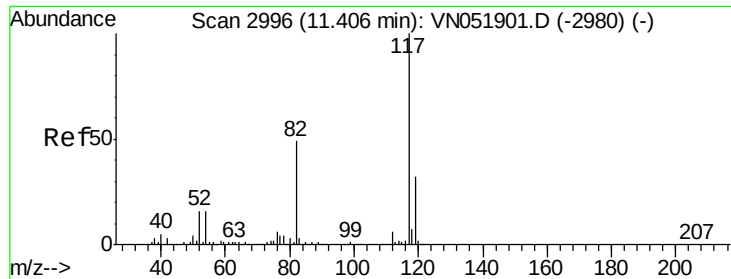
MMDadoda
 10/19/2018 3:29:09 PM



#62
 4-Bromofluorobenzene
 Concen: 4.84 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.8	0.0	195.0
176	98.6	0.0	191.4





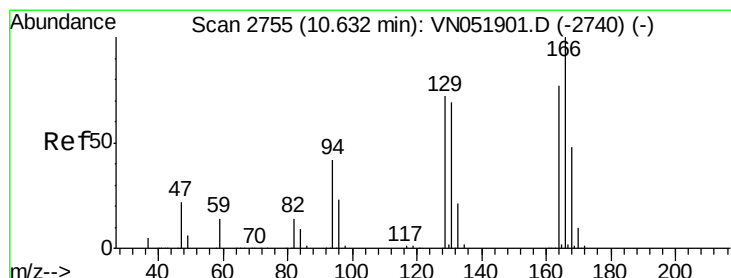
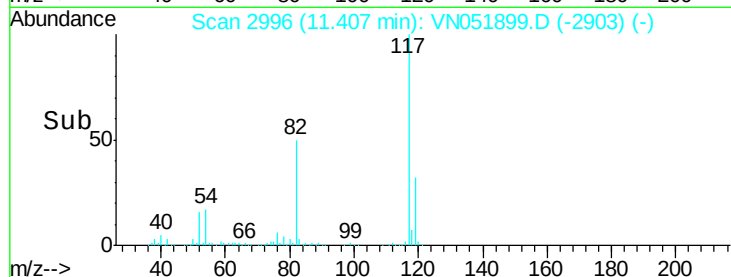
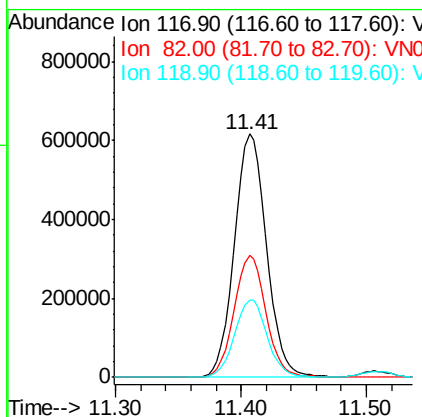
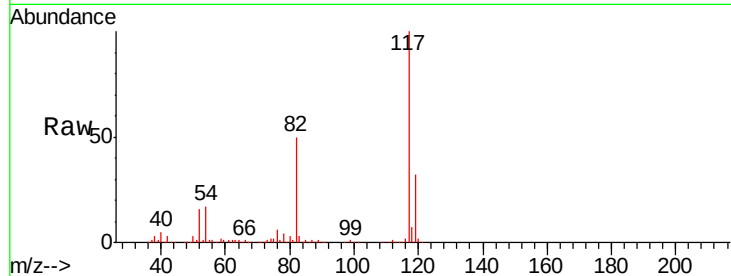
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.9	38.9	58.3
119	32.0	25.9	38.9

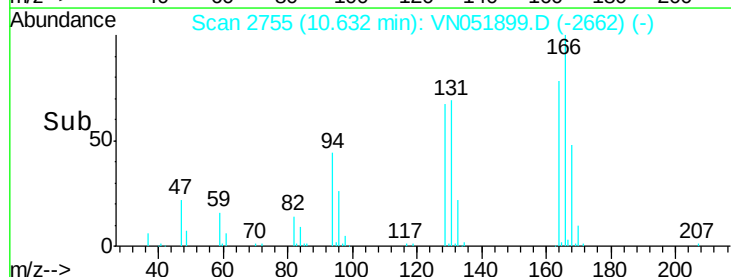
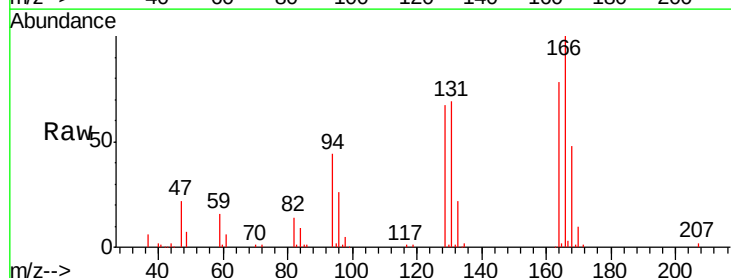
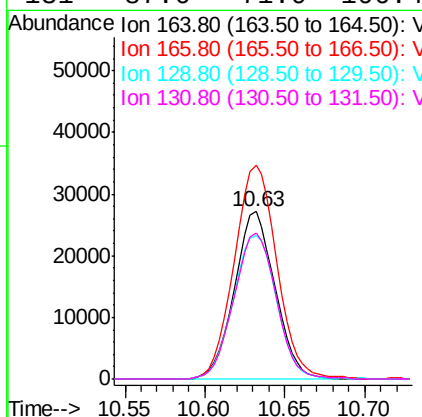
Manual Integrations
APPROVED

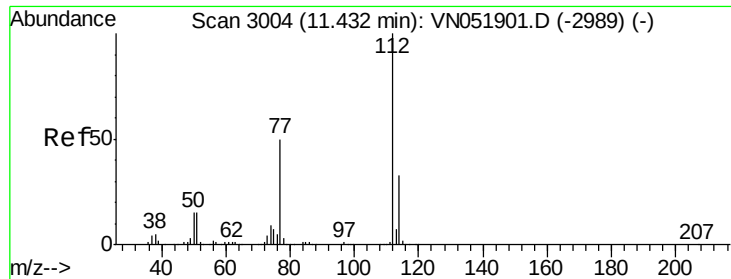
MMDadoda
10/19/2018 3:29:09 PM



#64
Tetrachloroethene
Concen: 5.31 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	103.4	155.0
129	85.9	73.9	110.9
131	87.6	71.0	106.4





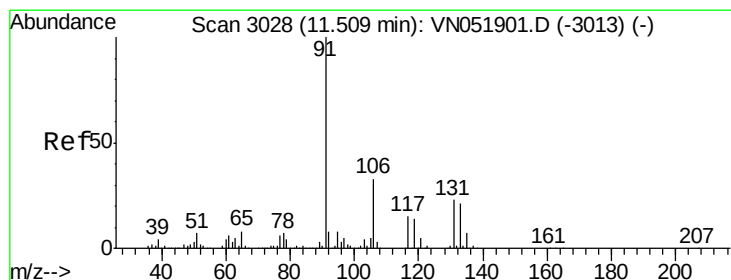
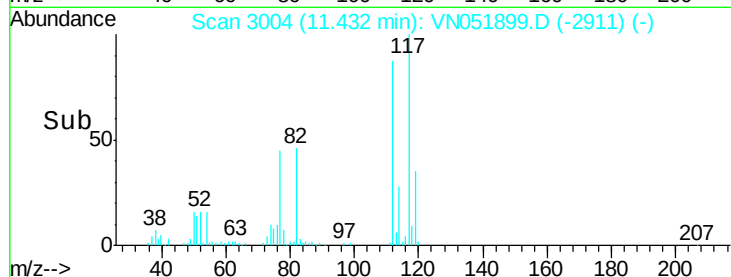
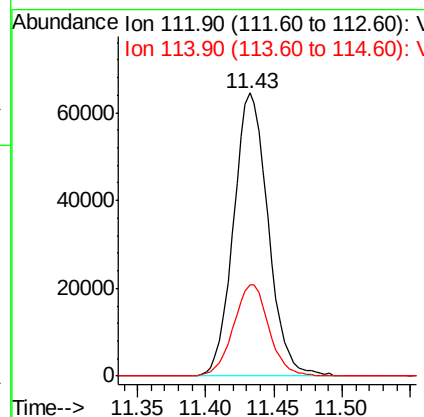
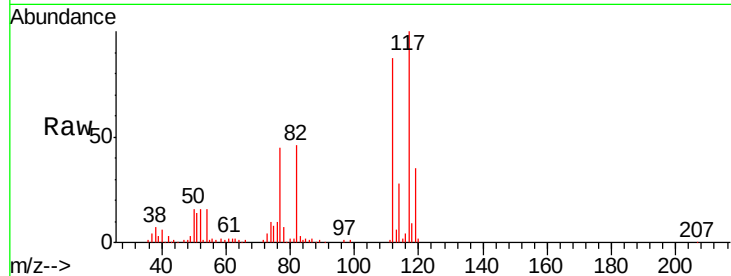
#65
Chlorobenzene
Concen: 5.16 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	113579		
114	32.2	26.4	39.6	

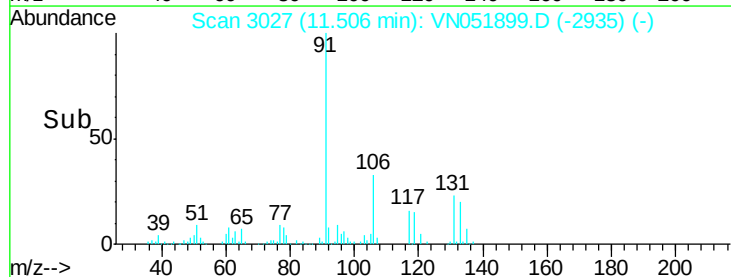
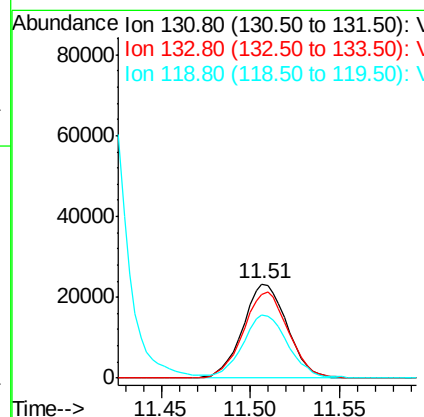
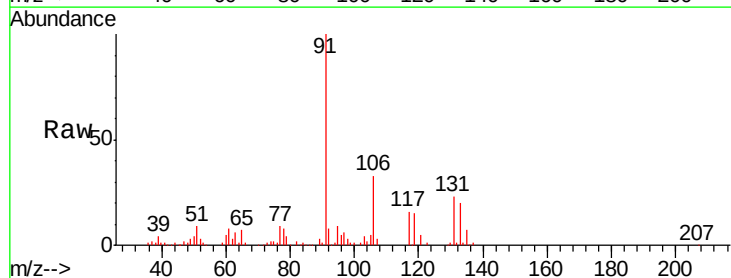
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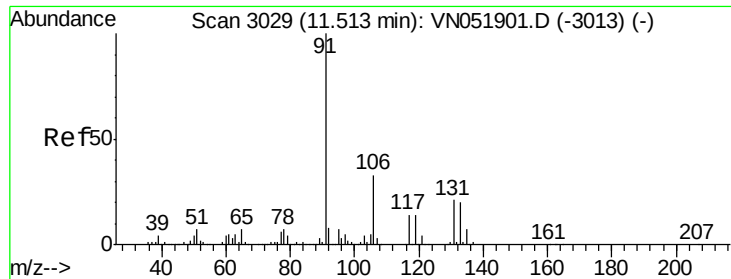
MMDadoda
10/19/2018 3:29:09 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.94 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	40448		
133	92.6	47.5	142.6	
119	68.5	32.1	96.5	





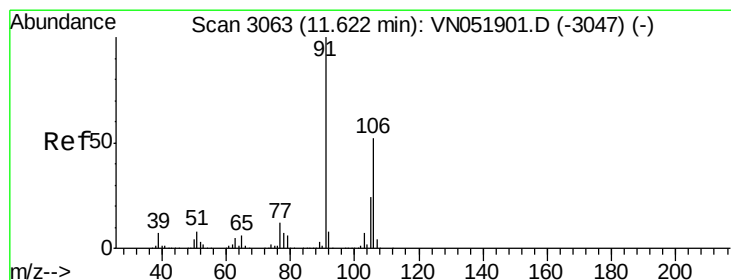
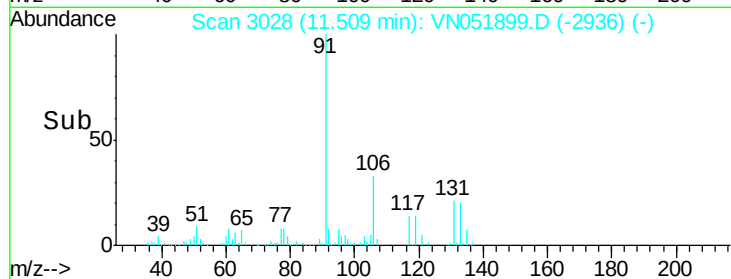
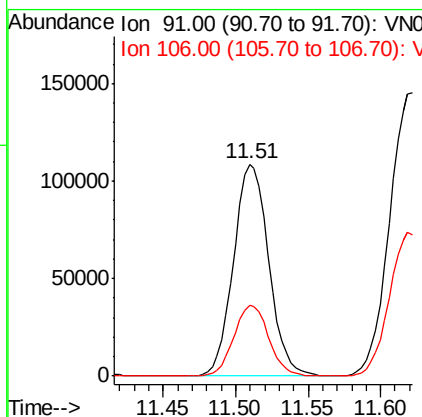
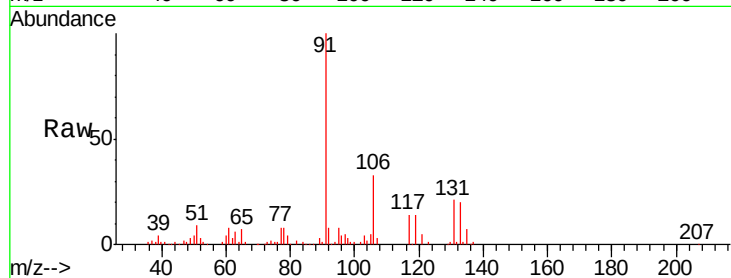
#67
Ethyl Benzene
Concen: 5.10 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 183878
Ion Ratio Lower Upper
91 100
106 33.3 26.6 39.8

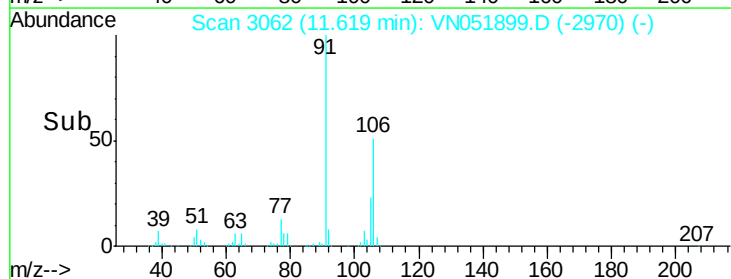
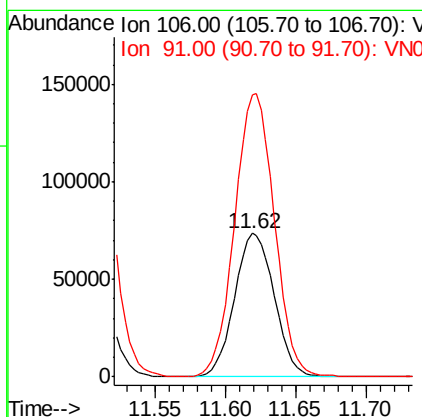
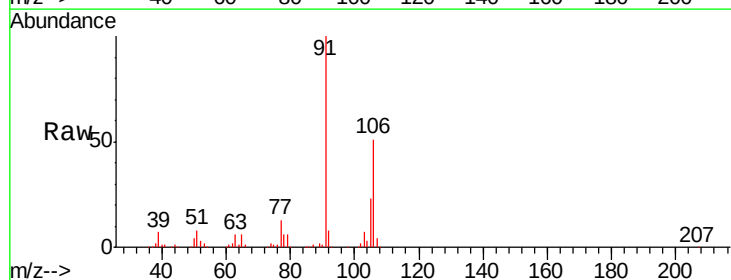
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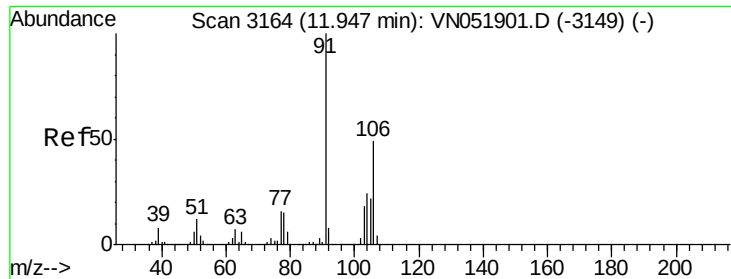
MMDadoda
10/19/2018 3:29:09 PM



#68
m/p-Xylenes
Concen: 10.02 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 106 Resp: 145063
Ion Ratio Lower Upper
106 100
91 197.4 153.6 230.4





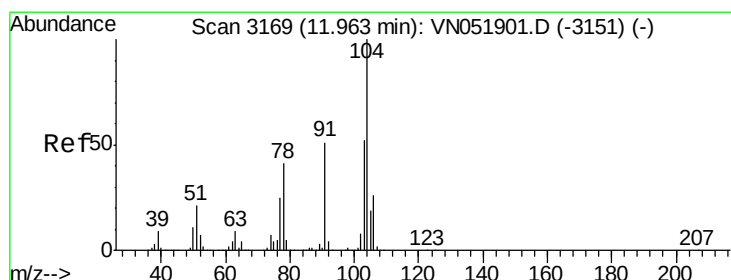
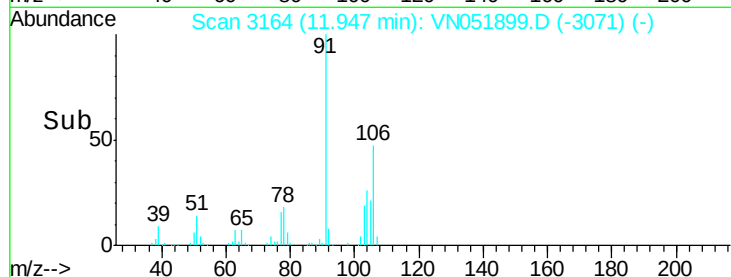
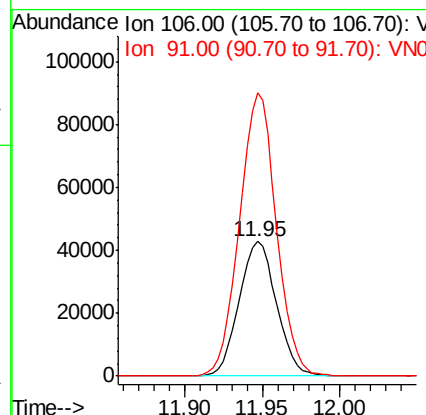
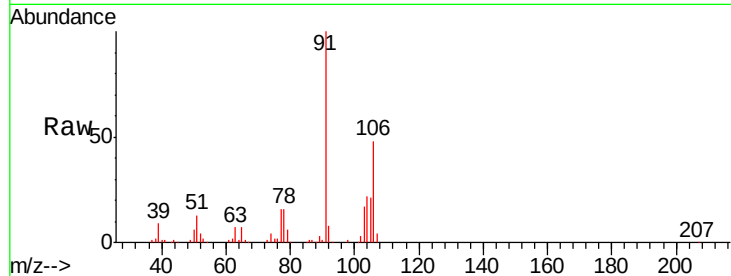
#69
o-Xylene
Concen: 5.10 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 71979
Ion Ratio Lower Upper
106 100
91 206.3 100.7 302.1

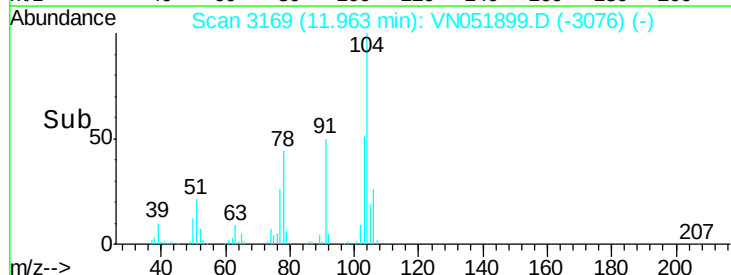
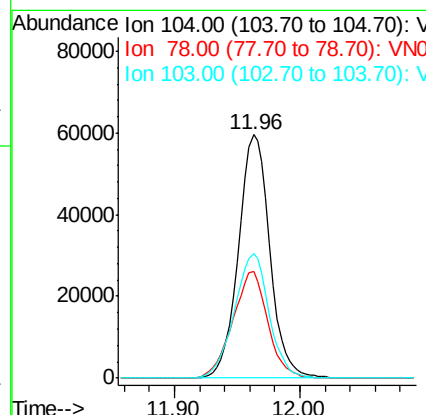
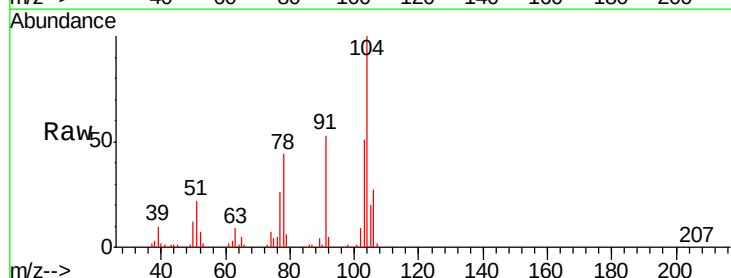
Manual Integrations
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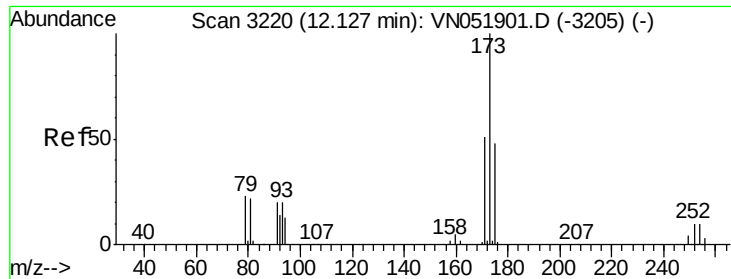
MMDadoda
10/19/2018 3:29:09 PM



#70
Styrene
Concen: 4.78 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion:104 Resp: 103623
Ion Ratio Lower Upper
104 100
78 48.7 36.6 55.0
103 56.6 44.6 67.0





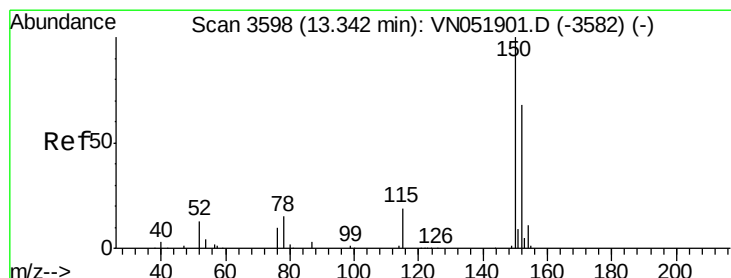
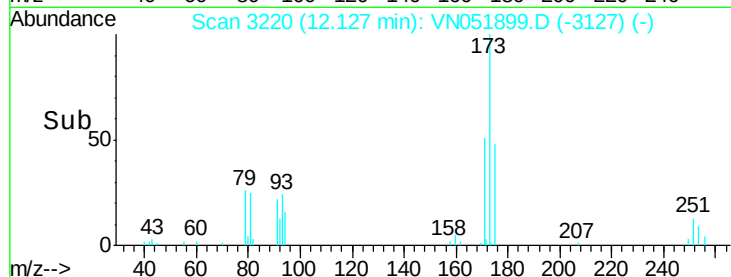
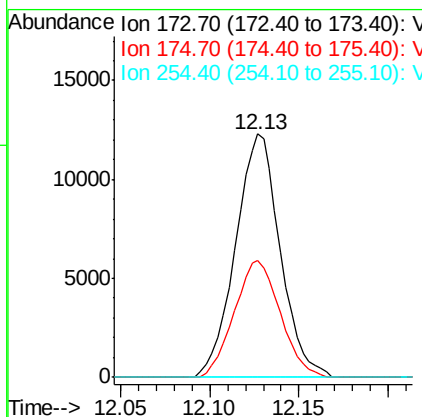
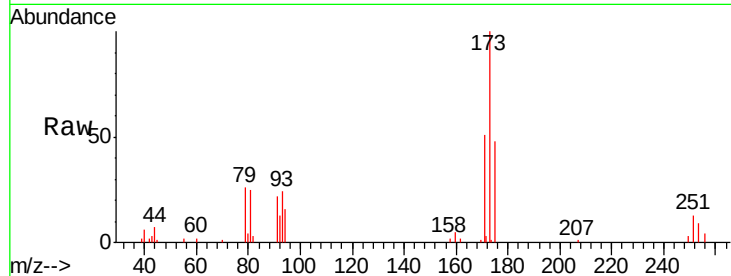
#71
Bromoform
Concen: 4.21 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.0	72.0
254	0.0	0.2	0.2

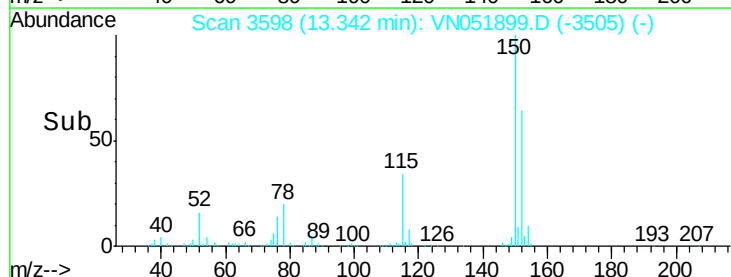
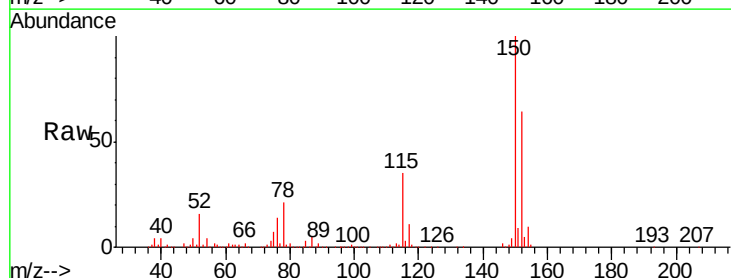
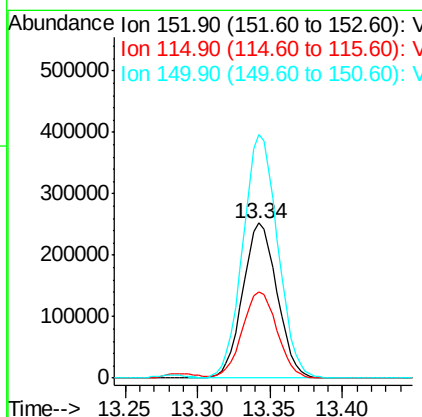
Manual Integrations
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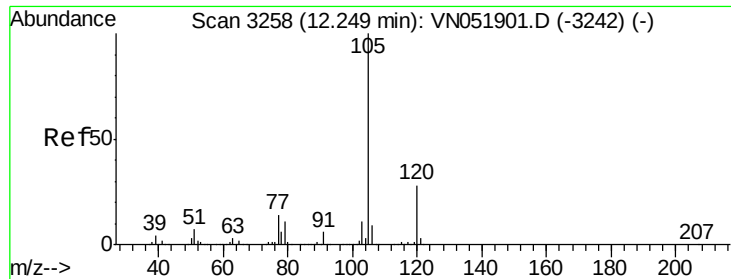
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	26.7	80.1
150	159.2	0.0	346.4





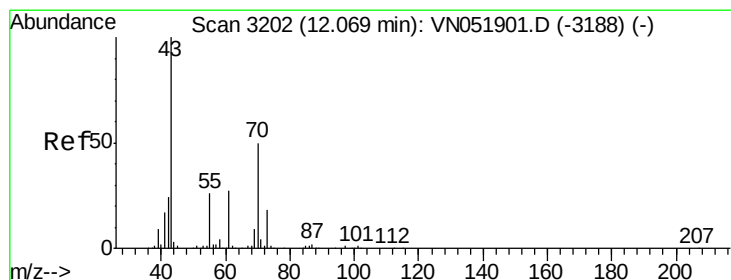
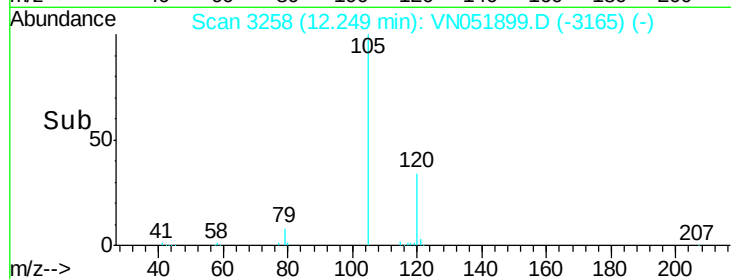
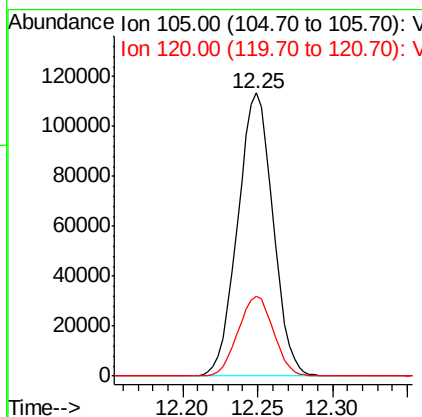
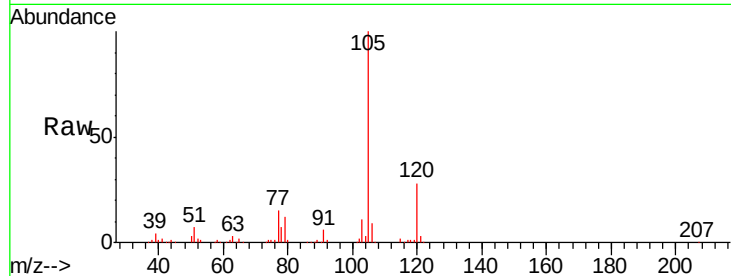
#73
Isopropylbenzene
Concen: 5.77 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.2	14.0	41.9

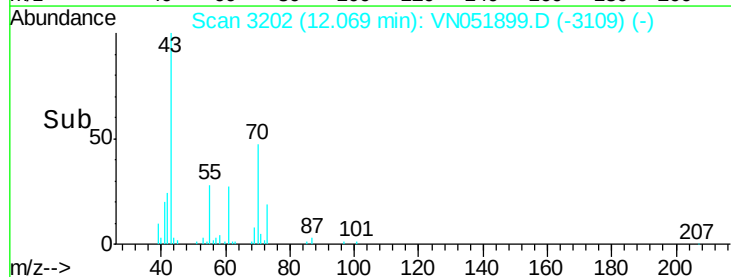
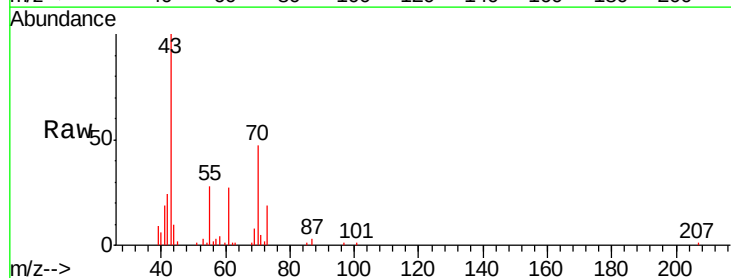
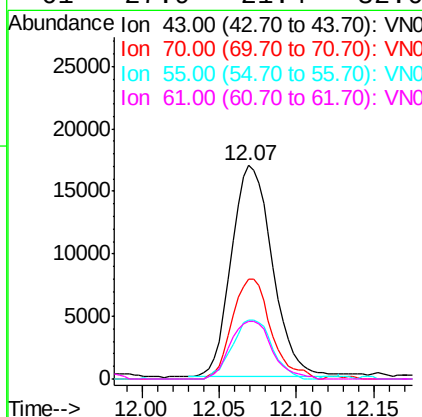
Manual Integrations
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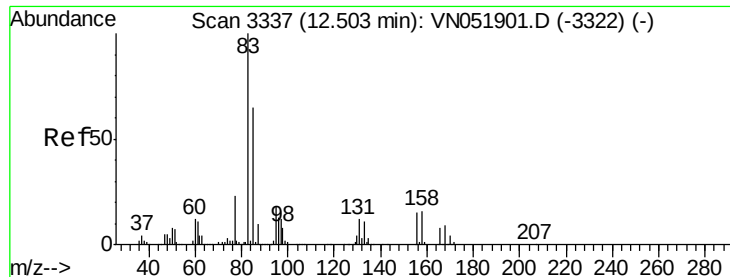
MMDadoda
10/19/2018 3:29:09 PM



#74
N-ethyl acetate
Concen: 5.59 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.8	40.1	60.1
55	27.2	21.0	31.4
61	27.9	21.4	32.0





#75

1,1,2,2-Tetrachloroethane

Concen: 6.04 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 39380

Ion Ratio Lower Upper

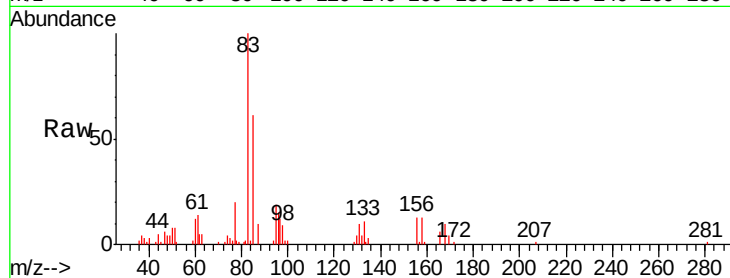
83 100

131 11.5 6.2 18.6

85 64.7 32.6 97.7

Manual Integrations
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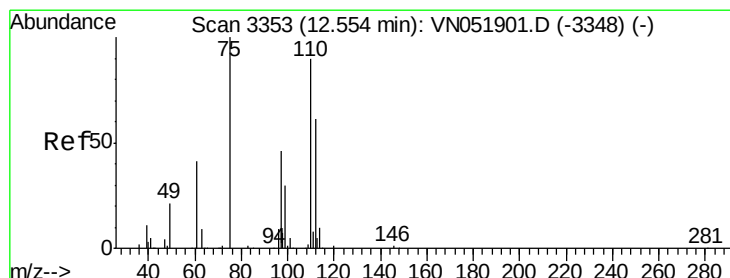
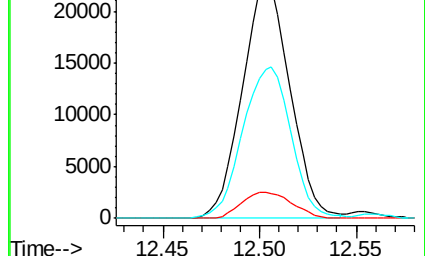
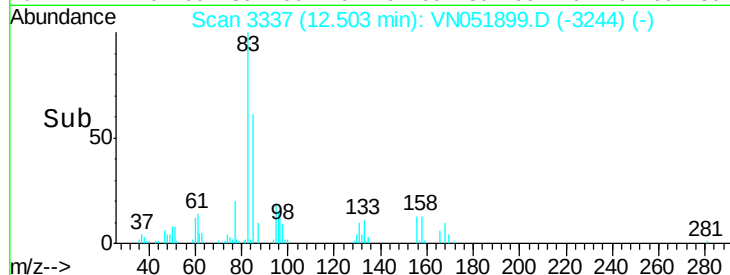


Abundance Ion 82.90 (82.60 to 83.60): VN051899.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN051899.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN051899.D (-3244) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 5.52 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051899.D

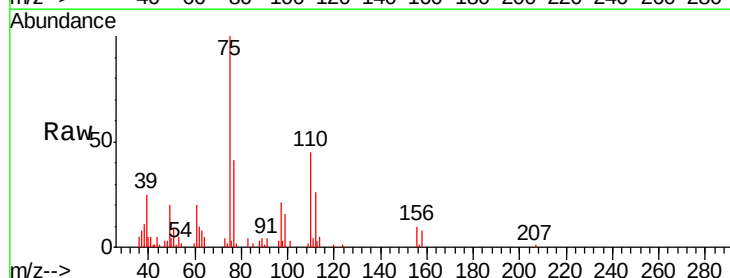
Acq: 17 Oct 2018 9:21

Tgt Ion: 75 Resp: 29091

Ion Ratio Lower Upper

75 100

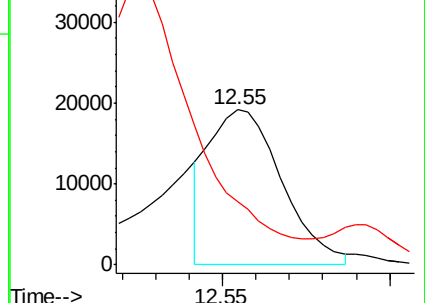
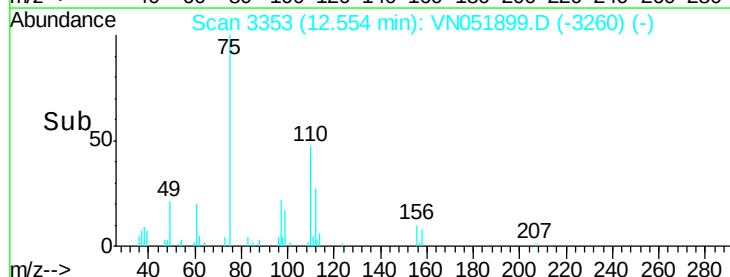
77 0.0 0.0 0.0

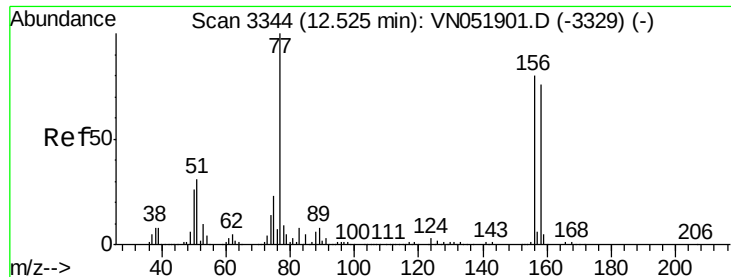


Abundance Ion 74.90 (74.60 to 75.60): VN051899.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN051899.D (-3260) (-)

Time-->





#77

Bromobenzene

Concen: 5.45 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

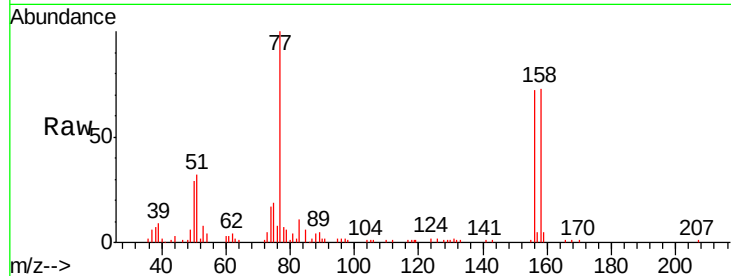
ClientSampleId :

VSTDIC005

Tgt Ion	Ratio	Lower	Upper
156	100		
77	159.0	73.0	219.0
158	99.2	48.4	145.0

Manual Integrations
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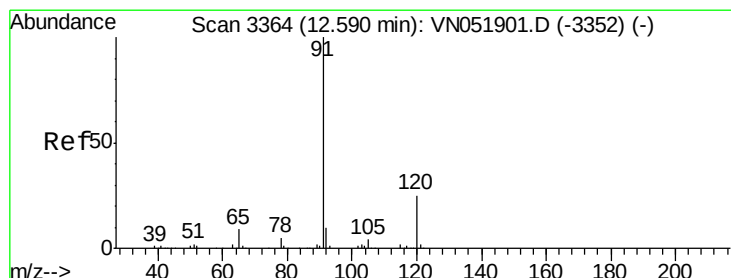
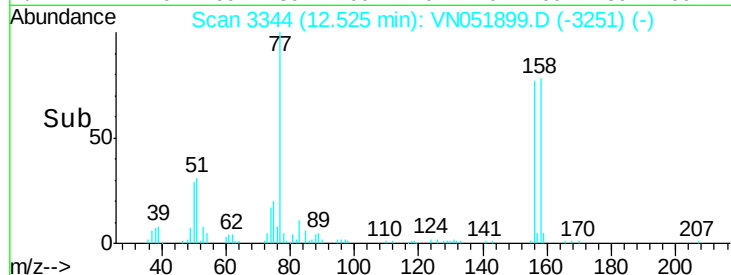
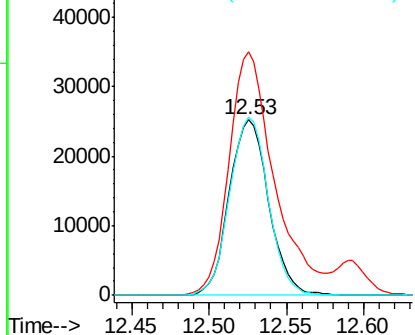
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.78 ug/l

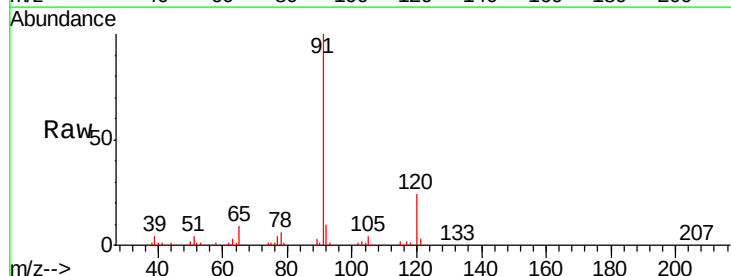
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051899.D

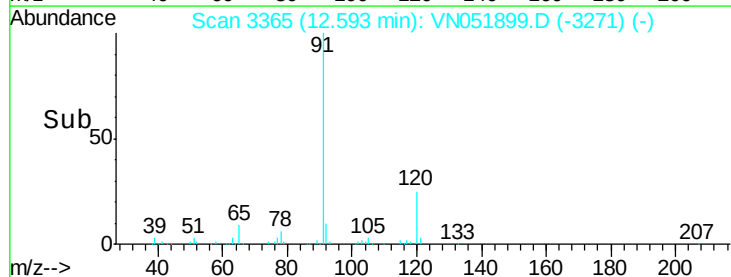
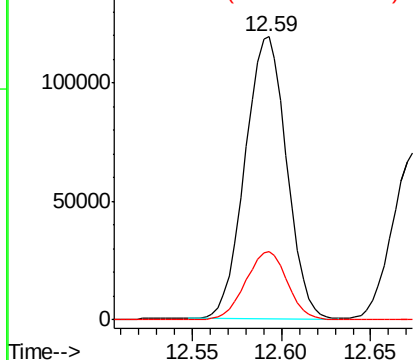
Acq: 17 Oct 2018 9:21

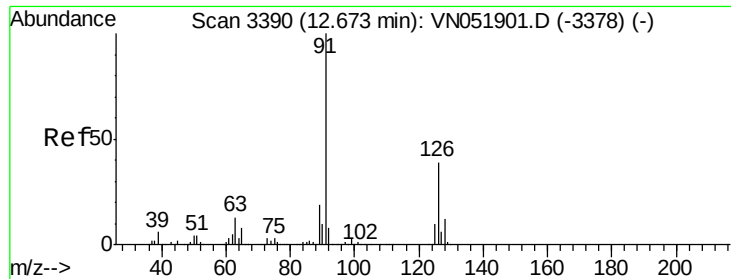
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.4	12.9	38.7



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.71 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 116820

Ion Ratio Lower Upper

91 100

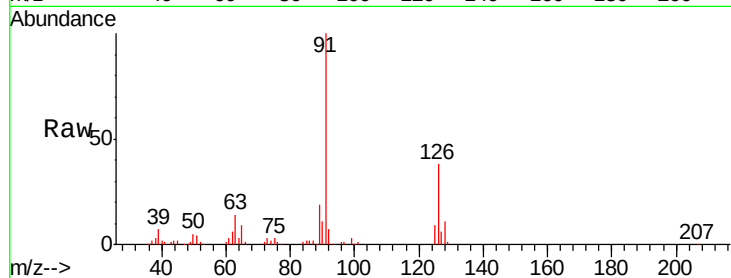
126 37.8 19.6 58.7

Manual Integrations

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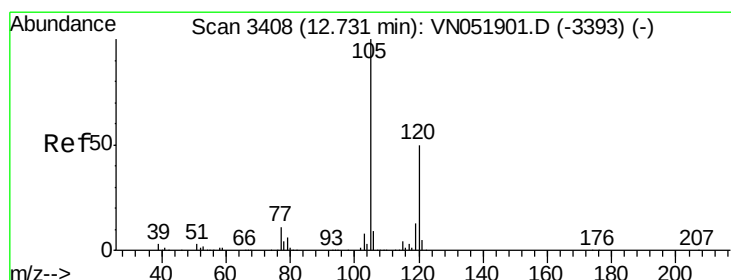
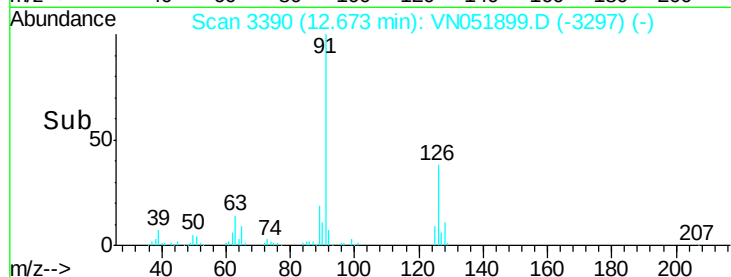
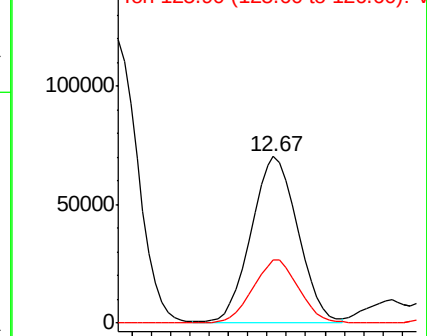
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Abundance Ion 91.00 (90.70 to 91.70): VN051899.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN051899.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.71 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051899.D

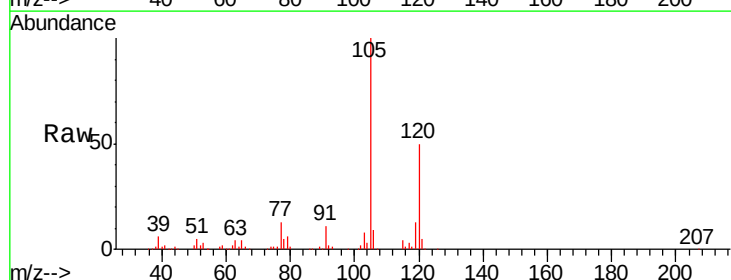
Acq: 17 Oct 2018 9:21

Tgt Ion: 105 Resp: 149055

Ion Ratio Lower Upper

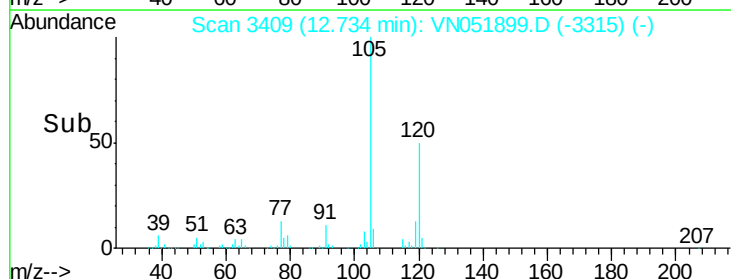
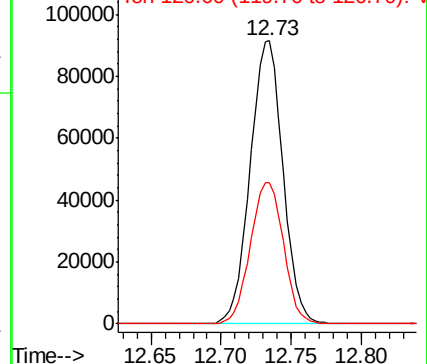
105 100

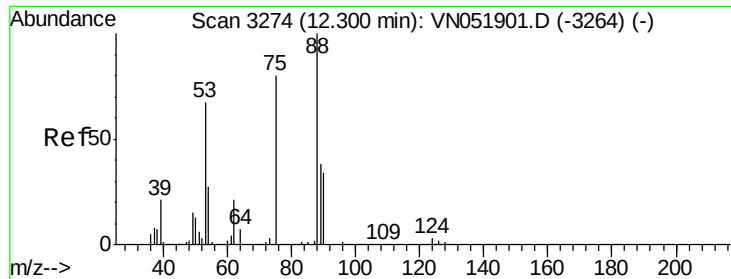
120 50.5 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): VN051899.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN051899.D (-3315) (-)





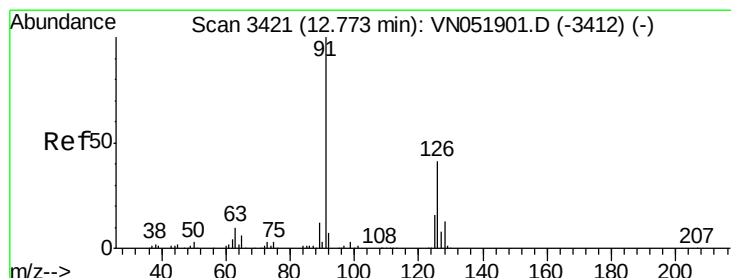
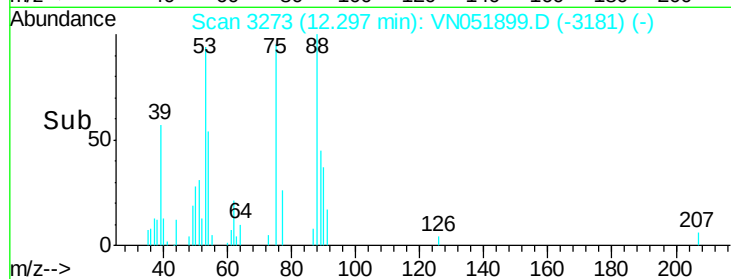
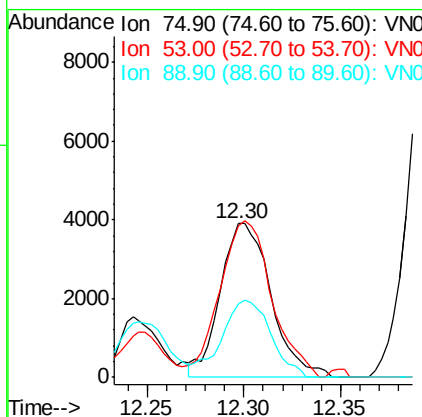
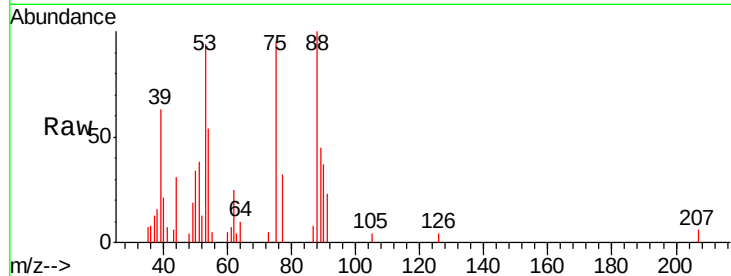
#81
trans-1,4-Dichloro-2-butene
Concen: 5.11 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 7153
Ion Ratio Lower Upper
75 100
53 104.3 68.5 102.7#
89 48.4 39.0 58.6

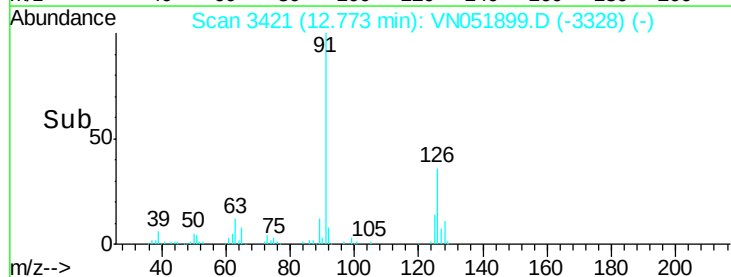
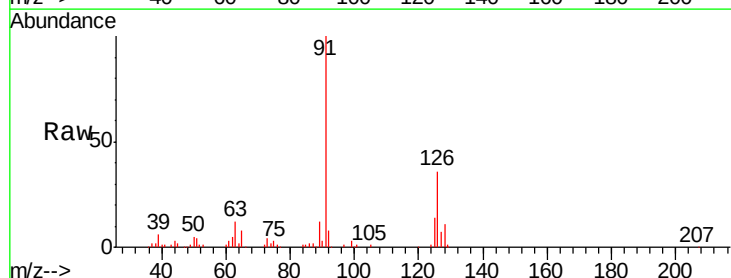
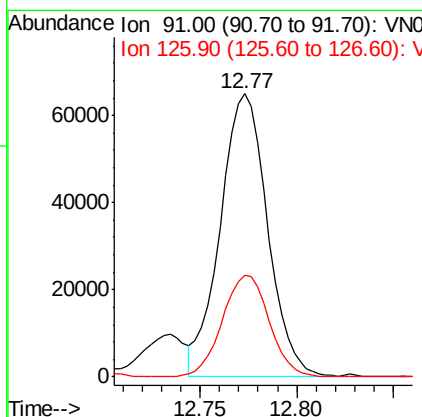
Manual Integrations
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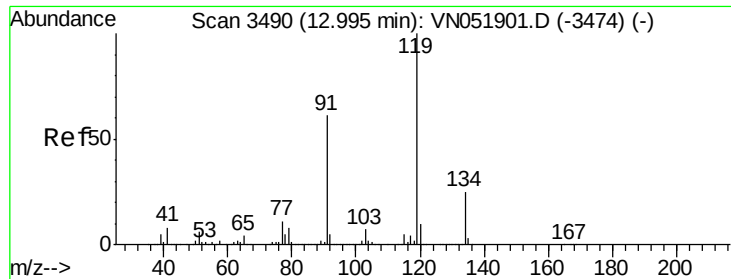
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#82
4-Chlorotoluene
Concen: 5.57 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051899.D
Acq: 17 Oct 2018 9:21

Tgt Ion: 91 Resp: 109378
Ion Ratio Lower Upper
91 100
126 36.1 18.9 56.7





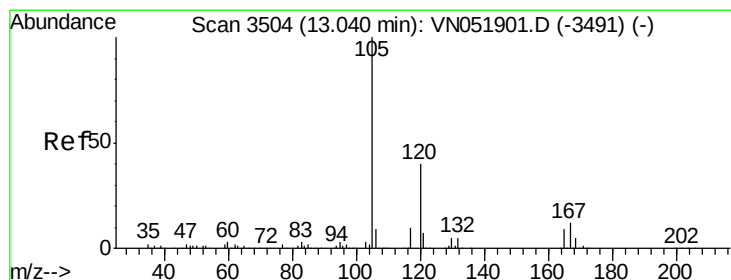
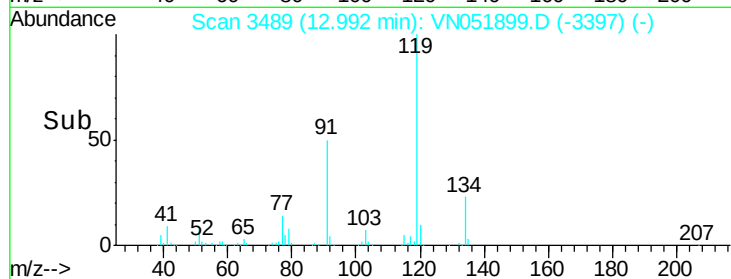
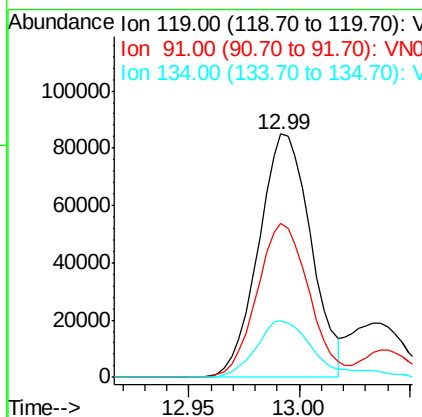
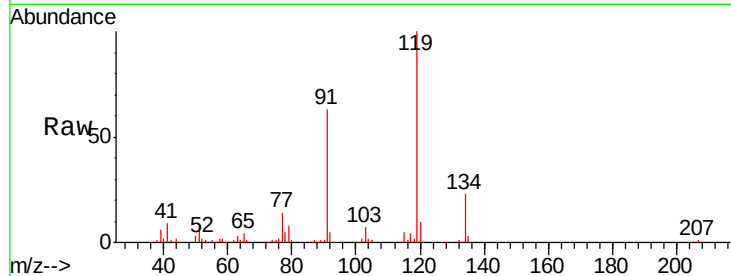
#83
 tert-Butylbenzene
 Concen: 5.71 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
119	100		
91	62.7	30.3	90.9
134	26.5	13.4	40.1

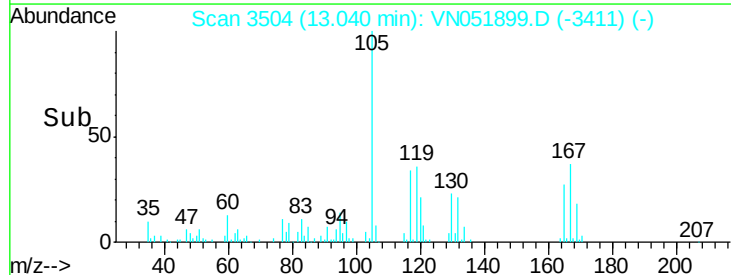
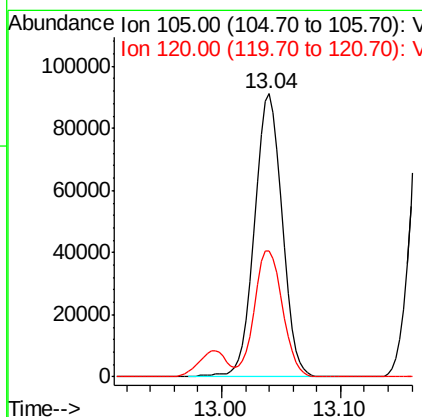
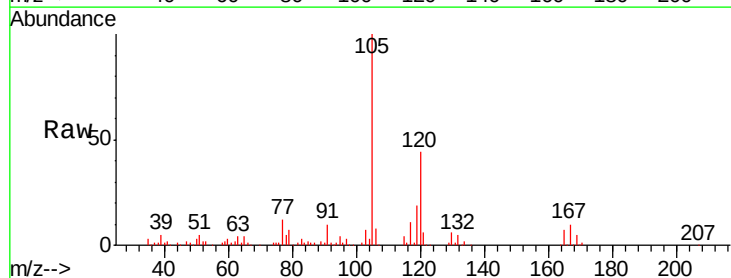
Manual Integrations
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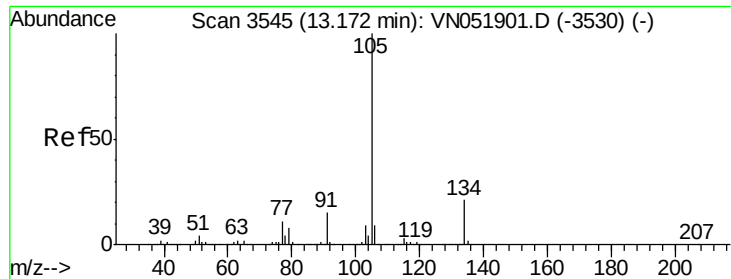
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#84
 1,2,4-Trimethylbenzene
 Concen: 5.72 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.4





#85

sec-Butylbenzene

Concen: 5.60 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 174568

Ion Ratio Lower Upper

105 100

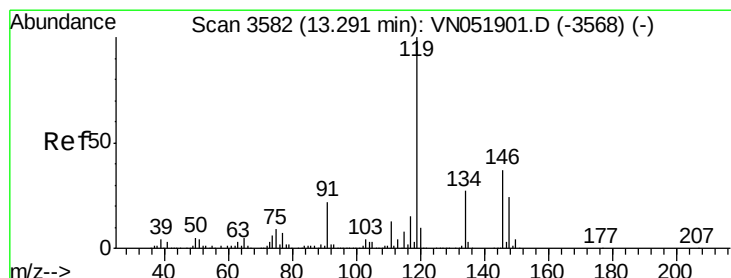
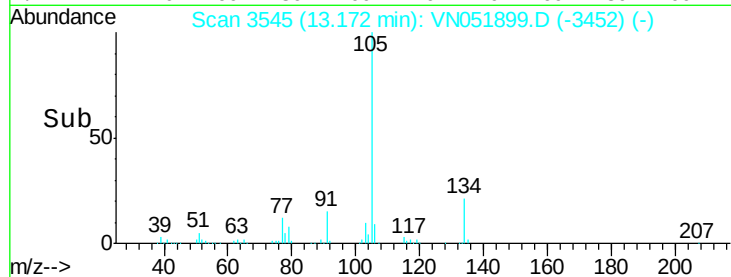
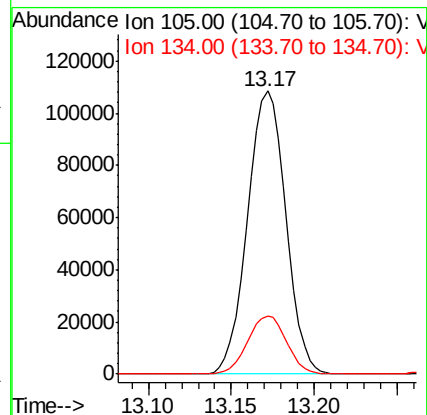
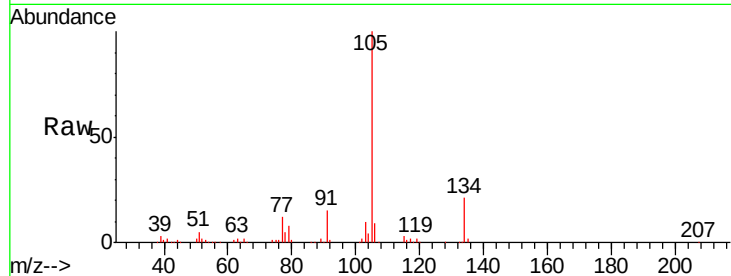
134 20.9 10.8 32.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 5.48 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

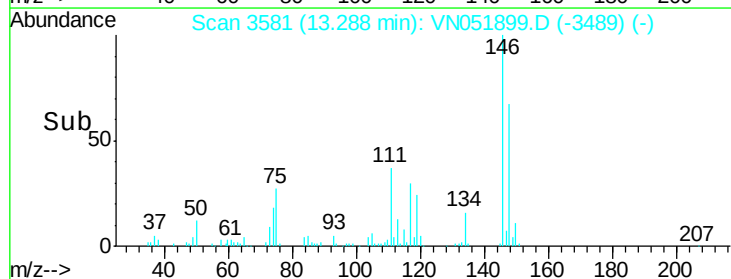
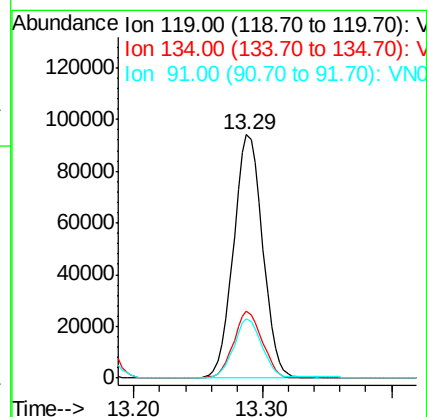
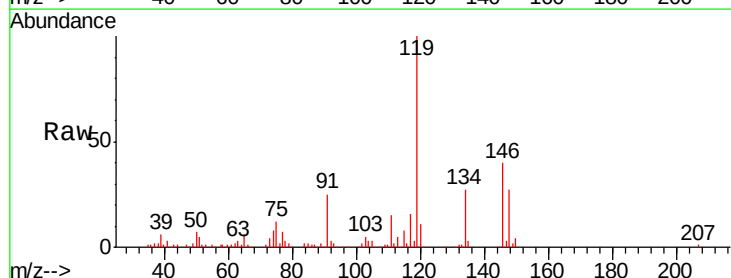
Tgt Ion:119 Resp: 148081

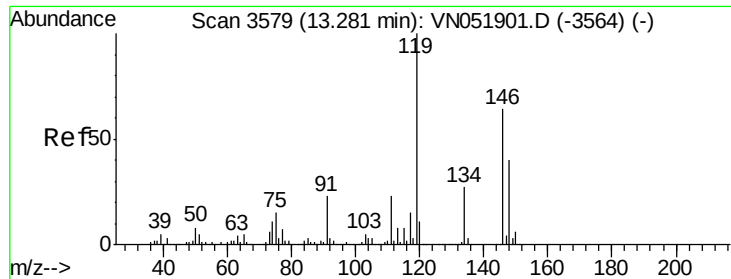
Ion Ratio Lower Upper

119 100

134 27.0 13.8 41.3

91 23.5 10.9 32.9





#87

1,3-Dichlorobenzene

Concen: 5.16 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

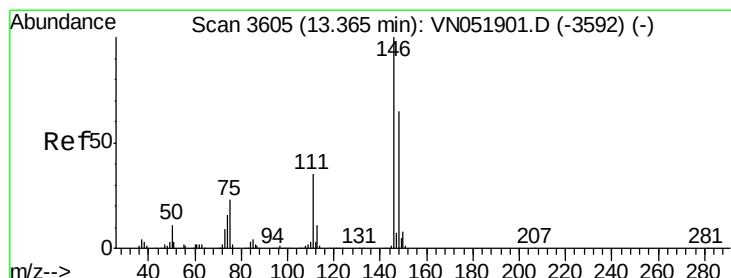
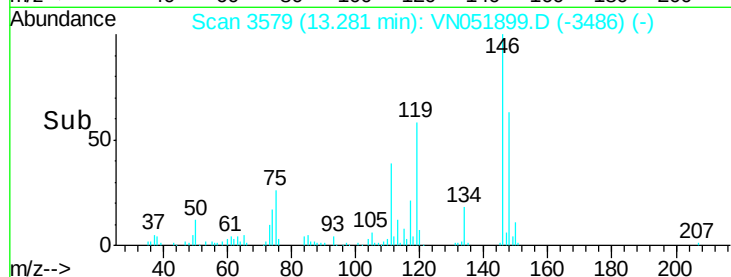
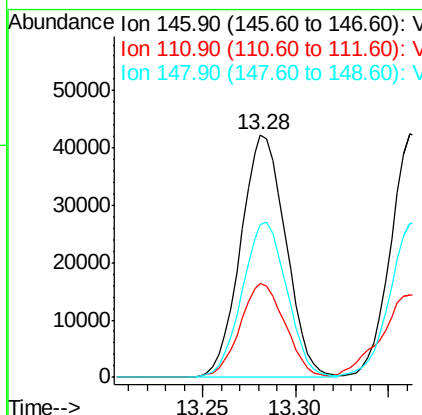
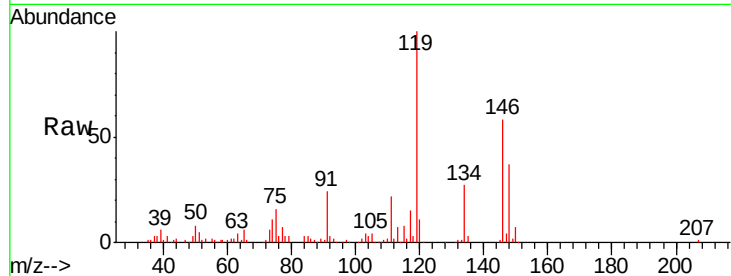
ClientSampleId :

VSTDIC005

Tgt Ion:	146	Resp:	71397
Ion Ratio	Lower	Upper	
146	100		
111	38.7	18.3	54.8
148	63.6	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 5.11 ug/l

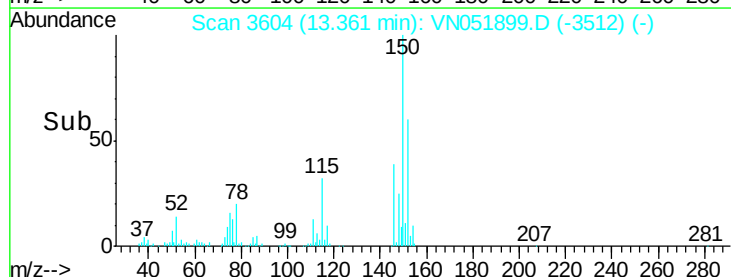
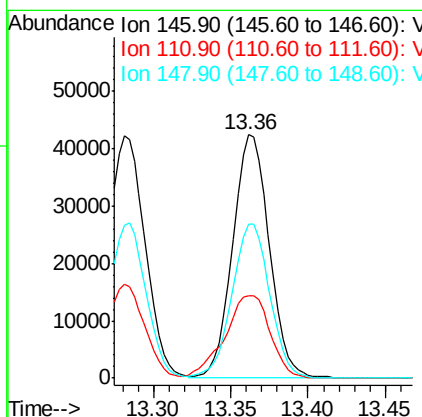
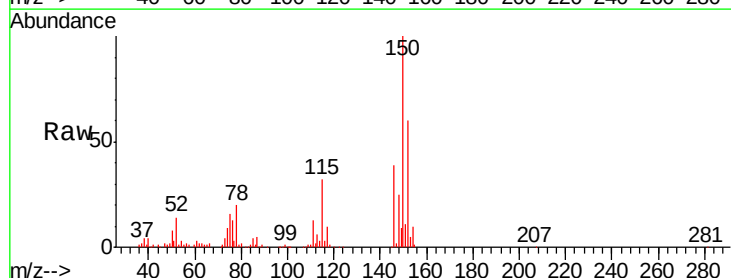
RT: 13.36 min Scan# 3604

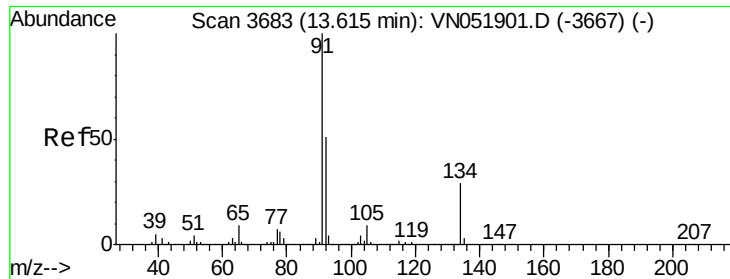
Delta R.T. -0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	146	Resp:	69597
Ion Ratio	Lower	Upper	
146	100		
111	42.2	17.9	53.7
148	65.5	32.8	98.3





#89

n-Butylbenzene

Concen: 5.34 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

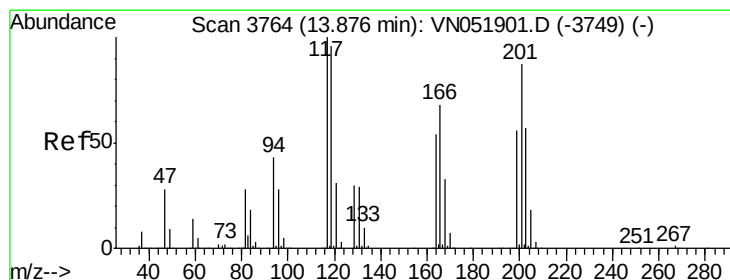
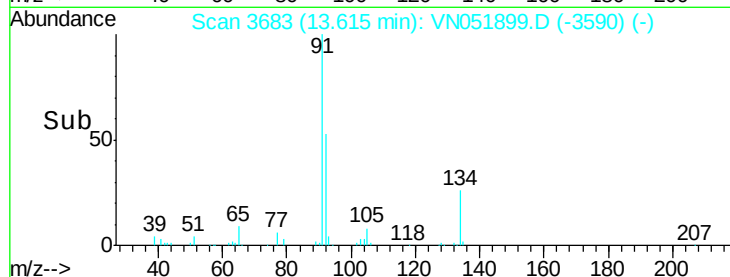
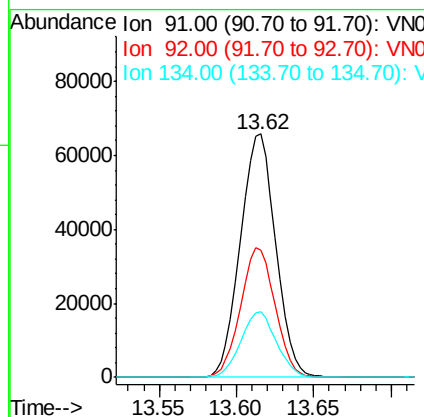
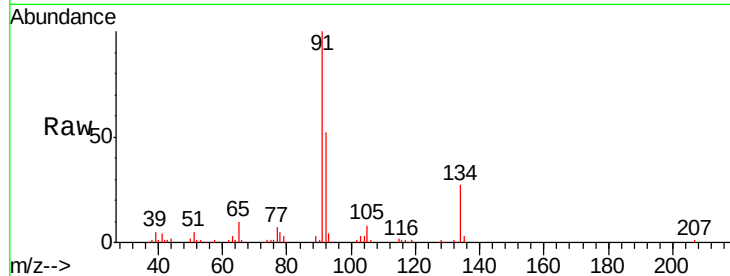
ClientSampleId :

VSTDIC005

Tgt Ion:	91	Resp:	104713
Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.9	77.7
134	27.0	14.6	43.8

Manual Integrations
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#90

Hexachloroethane

Concen: 5.30 ug/l

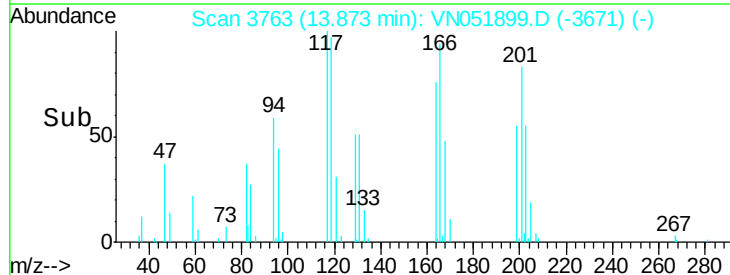
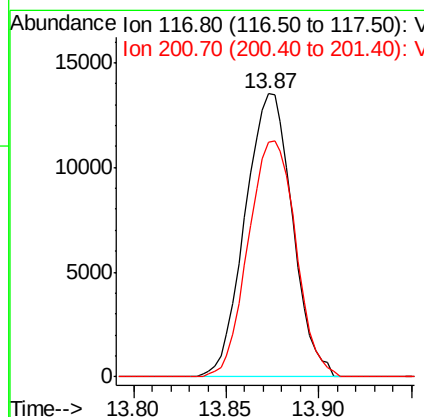
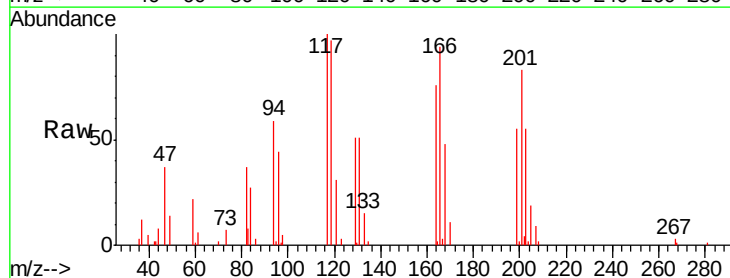
RT: 13.87 min Scan# 3763

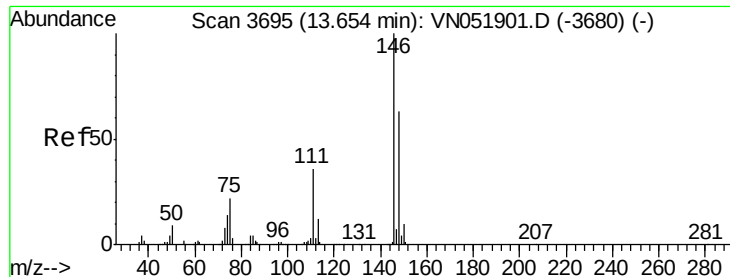
Delta R.T. -0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	117	Resp:	23970
Ion	Ratio	Lower	Upper
117	100		
201	83.8	43.8	131.3





#91

1,2-Dichlorobenzene

Concen: 5.37 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

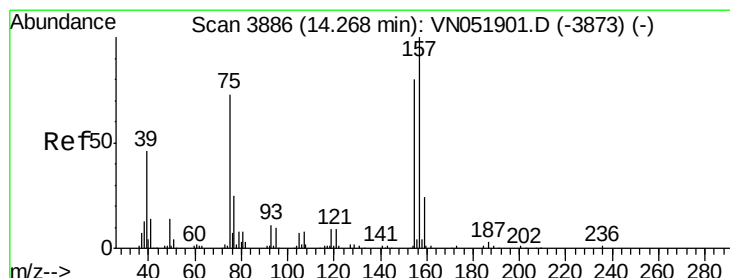
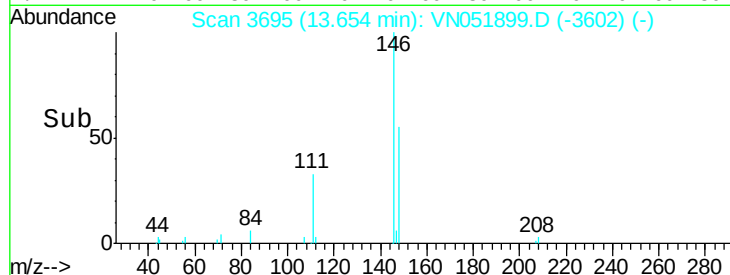
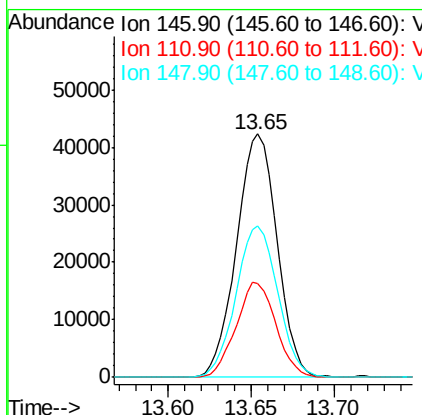
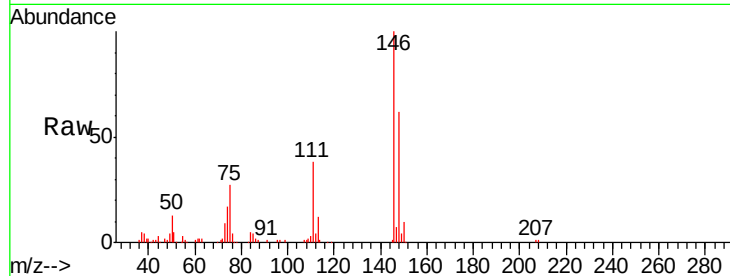
ClientSampleId :

VSTDIC005

Tgt Ion:	146	Resp:	72073
Ion Ratio	Lower	Upper	
146	100		
111	38.2	18.6	55.6
148	64.1	32.0	96.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 5.61 ug/l

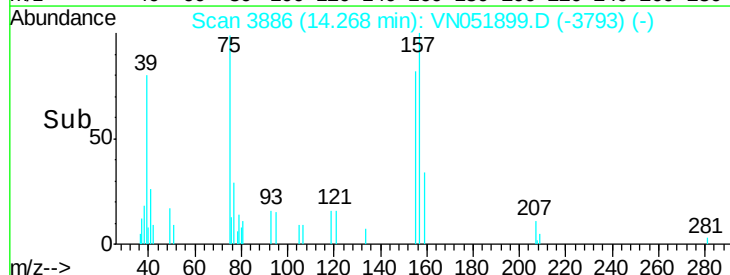
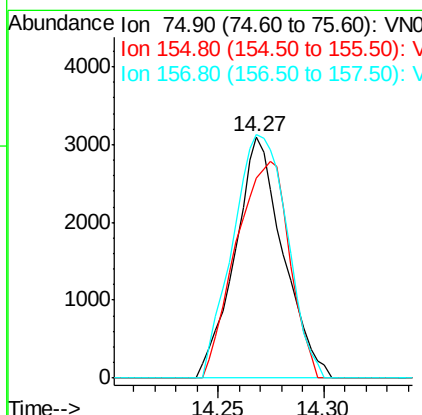
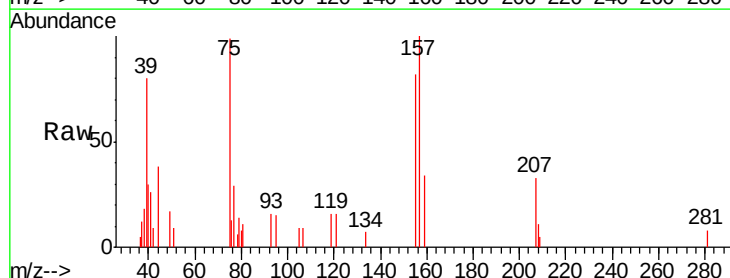
RT: 14.27 min Scan# 3886

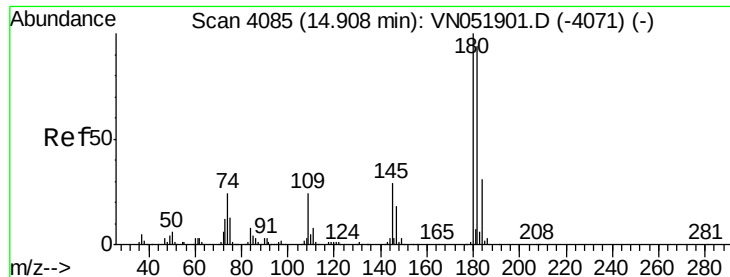
Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	75	Resp:	4907
Ion Ratio	Lower	Upper	
75	100		
155	100.0	53.4	160.2
157	114.3	69.3	207.9





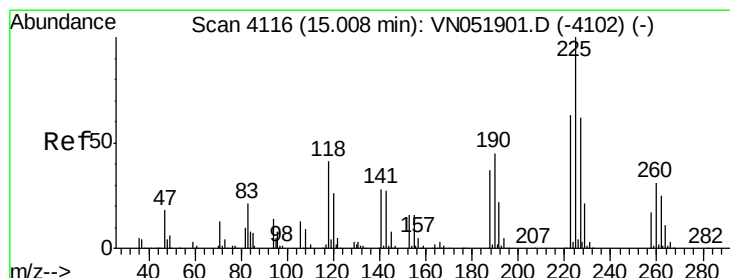
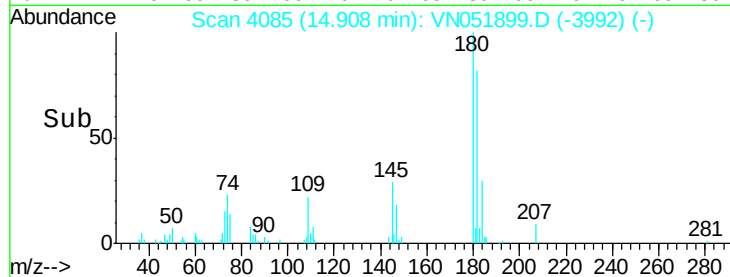
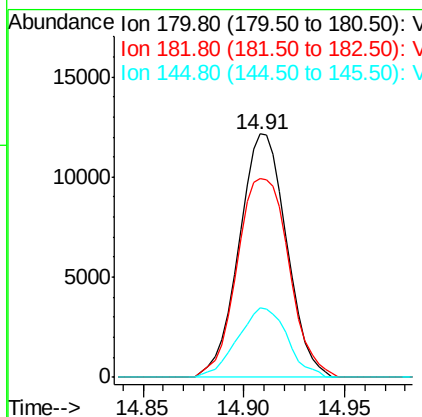
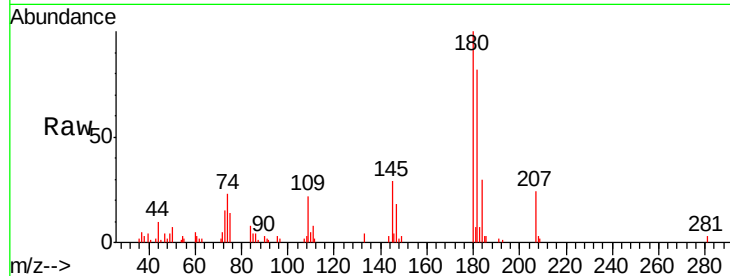
#93
 1,2,4-Trichlorobenzene
 Concen: 3.45 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	89.4	47.3	141.9
145	30.1	14.5	43.5

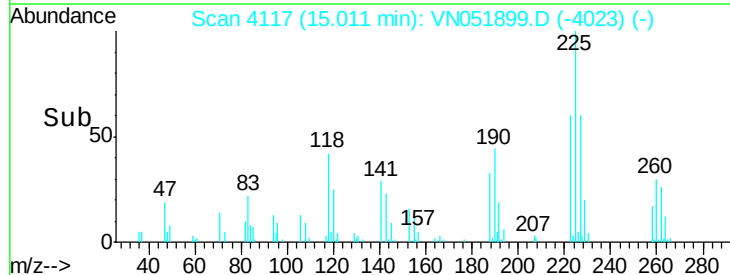
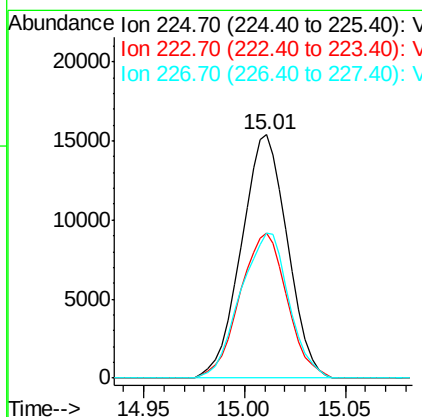
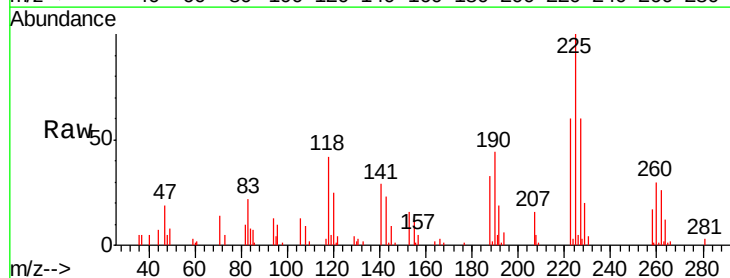
Manual Integrations
 APPROVED

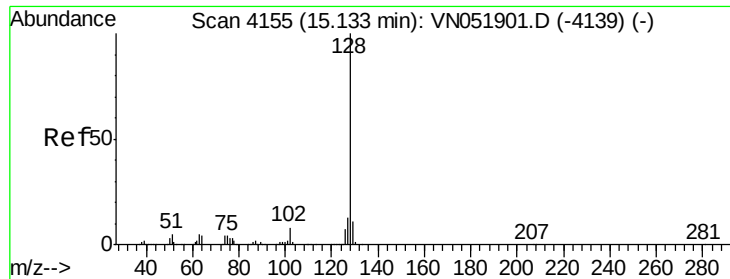
MMDadoda
 10/19/2018 3:29:09 PM



#94
 Hexachlorobutadiene
 Concen: 5.79 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051899.D
 Acq: 17 Oct 2018 9:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
225	100		
223	61.0	32.0	96.2
227	62.6	31.9	95.9





#95

Naphthalene

Concen: 3.54 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Instrument :

MSVOA_N

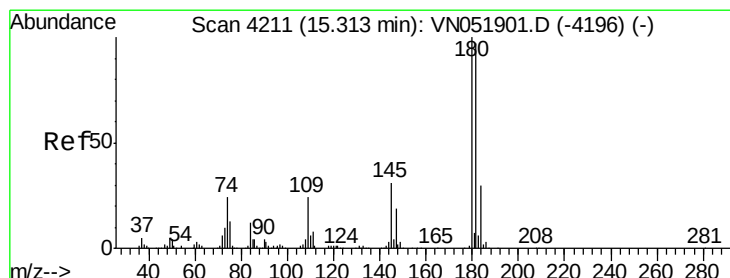
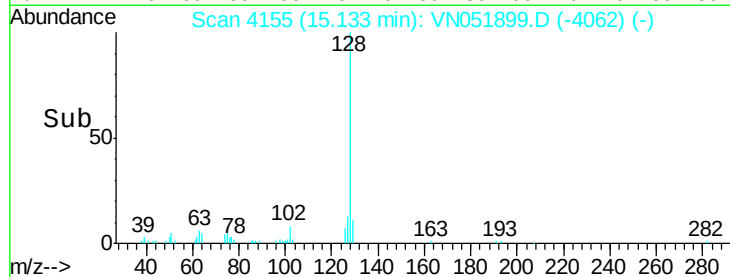
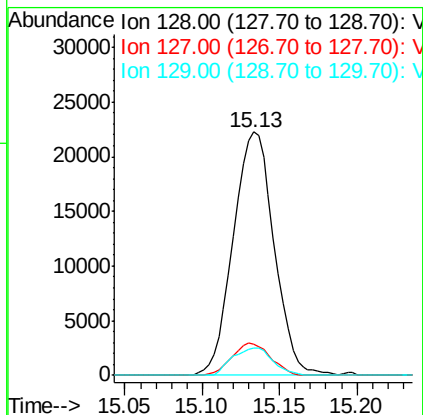
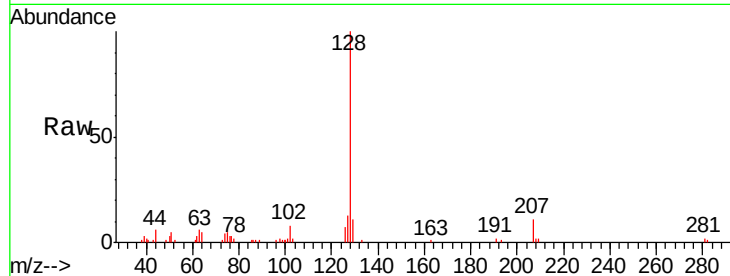
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	40862
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.2
129	11.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:09 PM



#96

1,2,3-Trichlorobenzene

Concen: 3.79 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051899.D

Acq: 17 Oct 2018 9:21

Tgt Ion:	180	Resp:	21853
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.9	143.8
145	30.0	15.2	45.6

