

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN120718\
 Data File : VN052731.D
 Acq On : 7 Dec 2018 17:12
 Operator : MD\SY
 Sample : VN1207WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:51:02 PM

Quant Time: Dec 07 22:27:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	149180	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	853170	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	746146	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	306002	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	12.40	95	342088	29.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.97%
63) Toluene-d8	10.09	98	1039250	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	164420	19.352 ug/l	97
3) Chloromethane	2.06	50	215191	19.098 ug/l	99
4) Vinyl Chloride	2.19	62	223486	19.651 ug/l	97
5) Bromomethane	2.57	94	92950	14.334 ug/l	95
6) Chloroethane	2.71	64	133842	19.790 ug/l	99
7) Trichlorofluoromethane	3.02	101	285728	20.357 ug/l	98
8) Diethyl Ether	3.41	74	110459	21.314 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	181636	20.414 ug/l	88
10) 1,1-Dichloroethene	3.74	96	171747	20.530 ug/l	100
11) Methyl Iodide	3.96	142	162838	14.019 ug/l	100
12) Methyl Acetate	4.33	43	160312	22.554 ug/l	97
13) Acrolein	3.61	56	50367	60.323 ug/l	98
14) Acrylonitrile	4.99	53	332419	109.760 ug/l	98
15) Acetone	3.82	58	82616	105.332 ug/l	93
16) Carbon Disulfide	4.06	76	491486	18.557 ug/l	100
17) Allyl chloride	4.33	41	293203	20.097 ug/l	100
18) Methylene Chloride	4.55	84	204996	21.164 ug/l	95
19) trans-1,2-Dichloroethene	5.05	96	185846	20.643 ug/l	94
20) Diisopropyl ether	5.95	45	630889	20.577 ug/l	99
21) 1,1-Dichloroethane	5.85	63	360643	20.638 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	212444	20.590 ug/l	99
23) tert-Butyl Alcohol	4.78	59	55327	122.803 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	470662	21.446 ug/l	98
25) Chloroform	7.37	83	351923	20.875 ug/l	100
26) Cyclohexane	7.65	56	320376	19.439 ug/l	# 97
29) 1,1-Dichloropropene	7.79	75	264852	20.328 ug/l	99
30) 2-Butanone	6.84	43	386174	110.769 ug/l	99
31) 2,2-Dichloropropane	6.83	77	250355	20.872 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	287601	21.215 ug/l	98
33) Carbon Tetrachloride	7.78	117	249649	21.046 ug/l	97
34) Benzene	8.04	78	821461	20.971 ug/l	99
35) Methacrylonitrile	7.17	41	83159	19.226 ug/l	96
36) 1,2-Dichloroethane	8.12	62	246990	20.808 ug/l	99
37) Trichloroethene	8.84	130	205291	20.668 ug/l	100
38) Methylcyclohexane	9.08	83	323496	20.058 ug/l	97
39) 1,2-Dichloropropane	9.12	63	219504	20.905 ug/l	100
40) Dibromomethane	9.21	93	124686	21.974 ug/l	98

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41) Bromodichloromethane	9.40	83	261248	20.839	ug/l	99
42) Vinyl Acetate	5.90	43	1997152	105.877	ug/l	99
43) Ethyl Acetate	6.93	43	162909	21.975	ug/l #	67
44) Isopropyl Acetate	8.17	43	303220	23.322	ug/l	97
45) 1,4-Dioxane	9.20	88	35336	496.810	ug/l	95
46) Methyl methacrylate	9.20	41	149552	22.154	ug/l	97
47) n-amyl Acetate	12.07	43	233972	21.705	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	253972	20.893	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	303090	20.466	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	177284	22.041	ug/l	99
51) Ethyl methacrylate	10.43	69	224899	22.263	ug/l	95
52) 1,3-Dichloropropane	10.71	76	307061	21.448	ug/l	99
53) Dibromochloromethane	10.90	129	190817	21.548	ug/l	97
54) 1,2-Dibromoethane	11.01	107	173071	22.020	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	630983	106.708	ug/l	98
56) Bromoform	12.13	173	127166	21.970	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	849523	117.440	ug/l	99
59) 2-Hexanone	10.75	43	564395	114.217	ug/l	100
61) Tetrachloroethene	10.63	164	197884	21.533	ug/l	95
62) Toluene	10.16	91	865934	21.052	ug/l	99
64) Chlorobenzene	11.43	112	533779	21.261	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	190989	21.916	ug/l	98
66) Ethyl Benzene	11.51	91	919657	20.745	ug/l	100
67) m/p-Xylenes	11.62	106	689272	41.733	ug/l	100
68) o-Xylene	11.95	106	342306	21.354	ug/l	98
69) Styrene	11.96	104	543239	20.995	ug/l	100
70) Isopropylbenzene	12.25	105	906825	21.261	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	214546	23.124	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	178246m	22.380	ug/l	
73) Bromobenzene	12.53	156	223379	21.654	ug/l	97
74) n-propylbenzene	12.59	91	1019289	20.511	ug/l	99
75) 2-Chlorotoluene	12.68	91	608815	21.106	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	733103	21.280	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	52306	20.789	ug/l	97
78) 4-Chlorotoluene	12.77	91	598252	20.768	ug/l	100
79) tert-butylbenzene	12.99	119	645354	21.510	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	727423	21.102	ug/l	99
81) sec-Butylbenzene	13.17	105	871876	20.864	ug/l	99
82) p-Isopropyltoluene	13.29	119	740253	20.803	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	377596	20.813	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	363052	20.712	ug/l	99
85) n-Butylbenzene	13.62	91	586989	19.204	ug/l	100
86) Hexachloroethane	13.88	117	127056	21.073	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	377203	21.848	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31302	24.085	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	171939	20.214	ug/l	99
90) Hexachlorobutadiene	15.01	225	119463	21.410	ug/l	99
91) Naphthalene	15.13	128	353865	20.601	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	168021	21.435	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

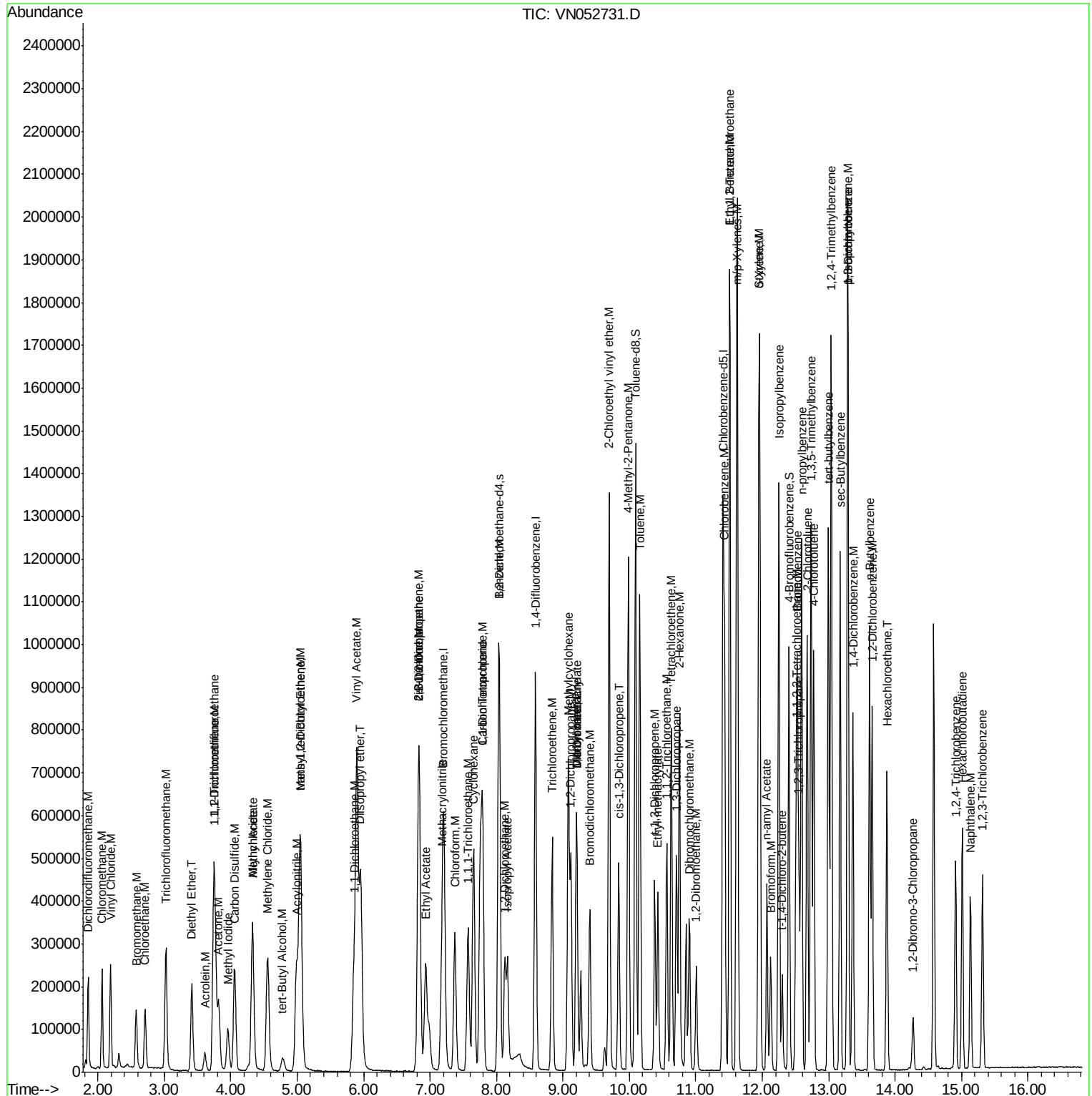
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Data File : VN052731.D
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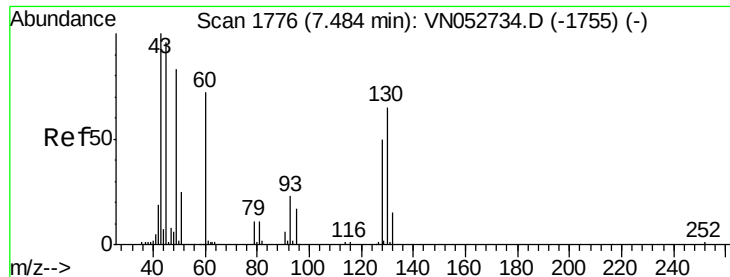
Instrument :
MSVOA_N
Client Sample Id :
VN1207WBSD01

Manual Integrations
APPROVED

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

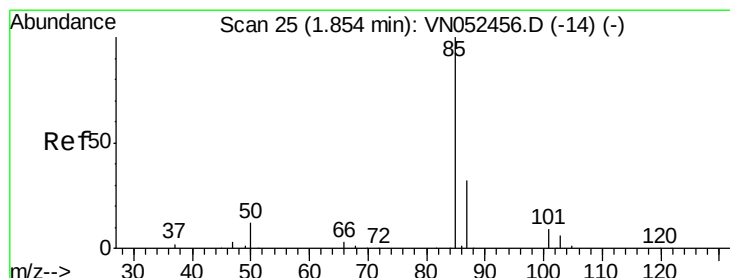
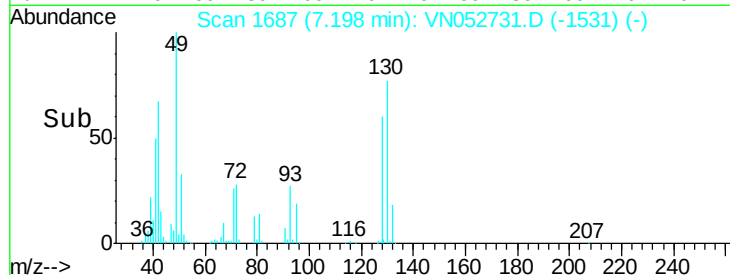
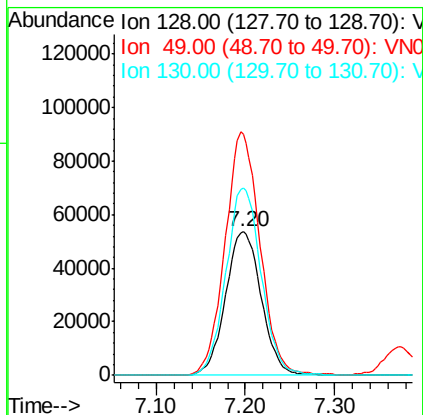
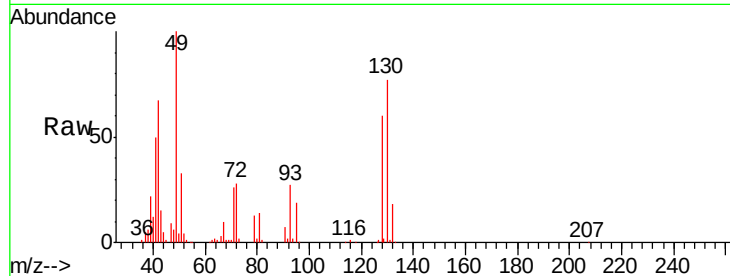
ClientSampleId :

VN1207WBSD01

Tgt Ion:	128	Resp:	149180
Ion	Ratio	Lower	Upper
128	100		
49	165.1	0.0	431.8
130	128.1	0.0	317.0

Manual Integrations
APPROVED

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12/10/2018 12:51:02 PM



#2

Dichlorodifluoromethane

Concen: 19.352 ug/l

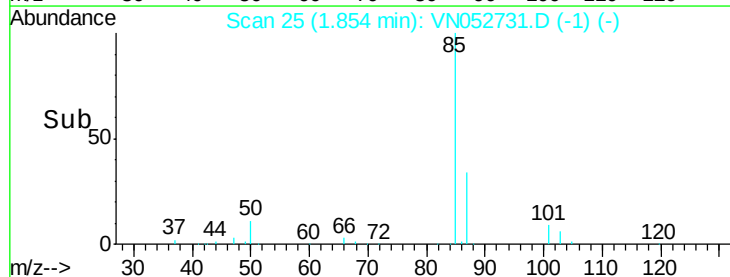
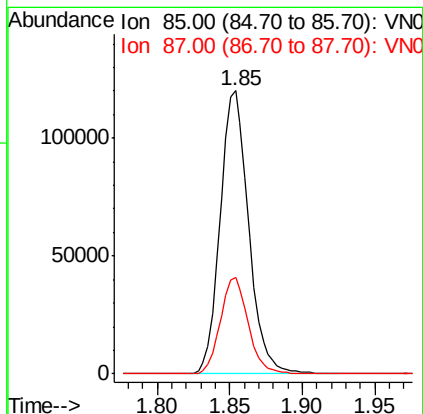
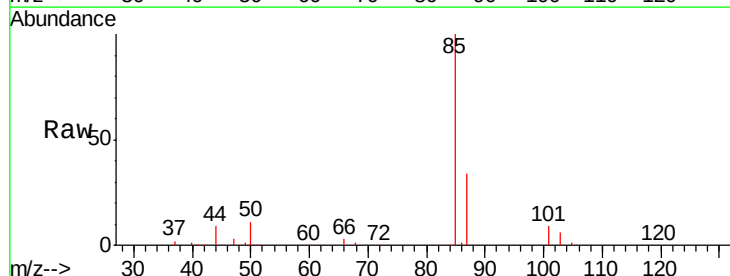
RT: 1.85 min Scan# 25

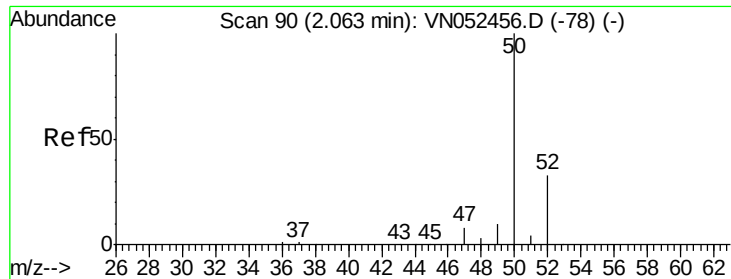
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	85	Resp:	164420
Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.1	48.3





#3

Chloromethane

Concen: 19.098 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 50 Resp: 215191

Ion Ratio Lower Upper

50 100

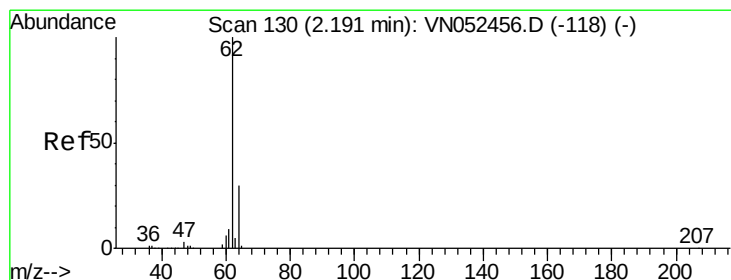
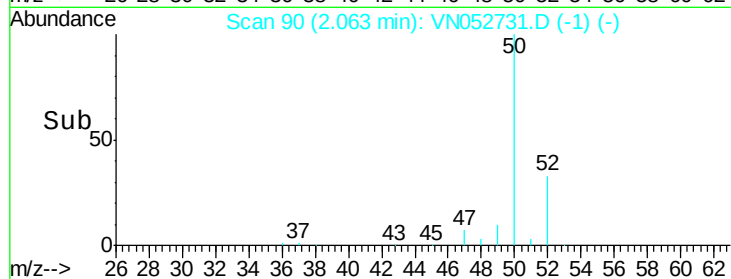
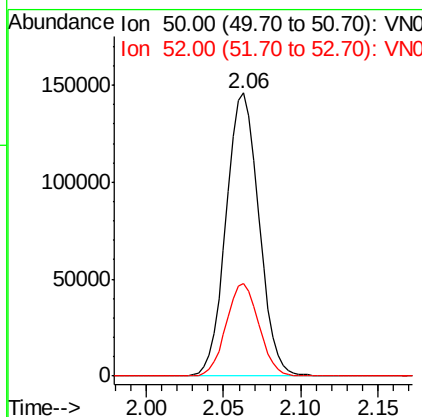
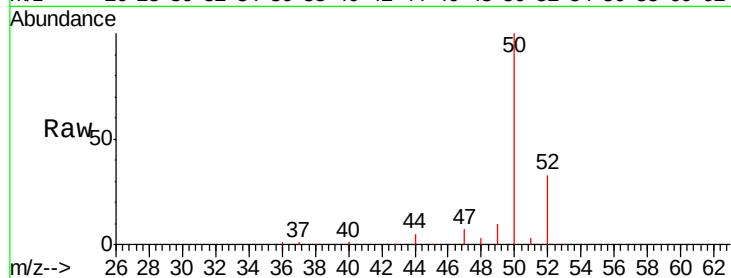
52 32.7 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.651 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052731.D

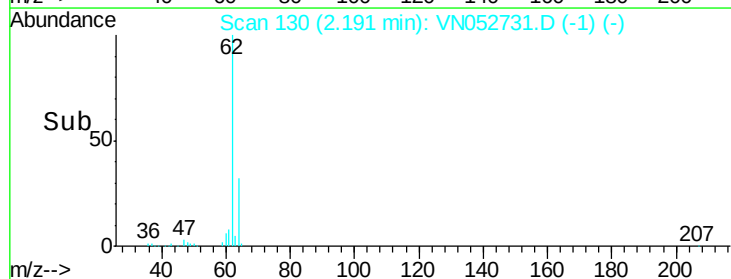
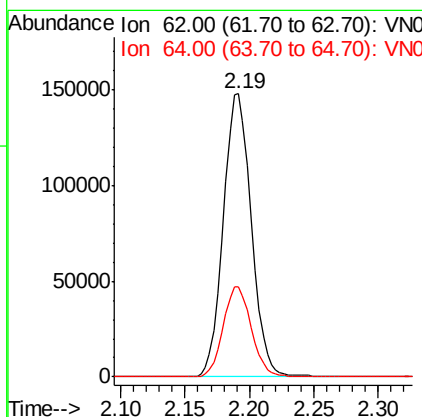
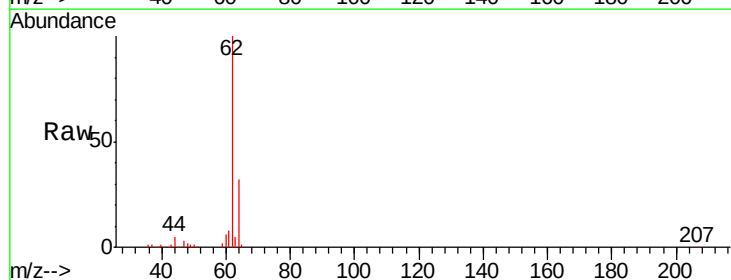
Acq: 7 Dec 2018 17:12

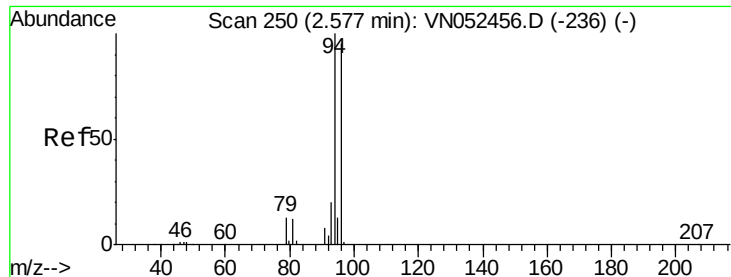
Tgt Ion: 62 Resp: 223486

Ion Ratio Lower Upper

62 100

64 31.9 24.2 36.4





#5

Bromomethane

Concen: 14.334 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 94 Resp: 92950

Ion Ratio Lower Upper

94 100

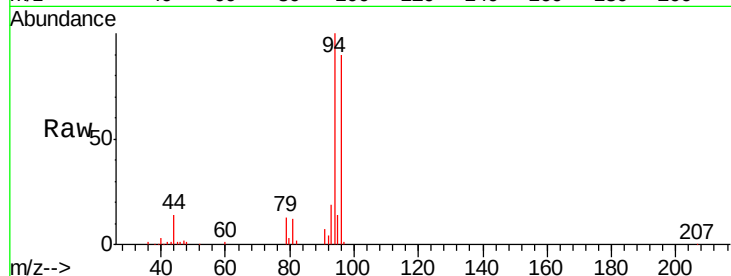
96 89.9 76.2 114.2

Manual Integrations

APPROVED

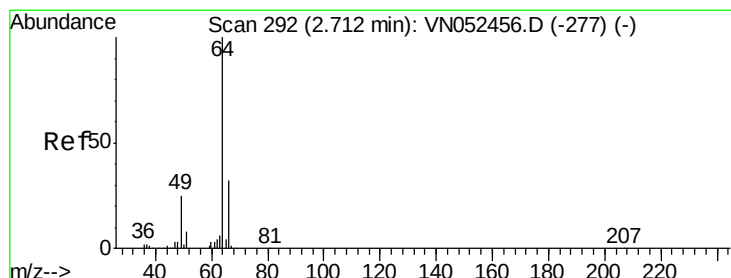
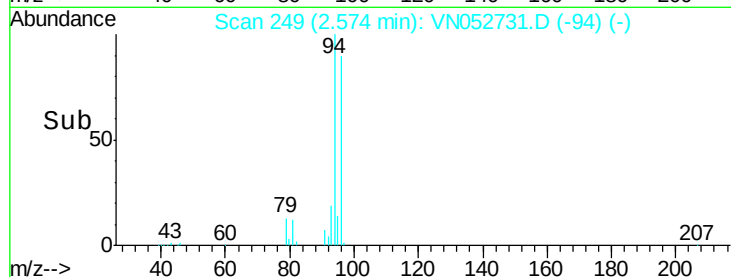
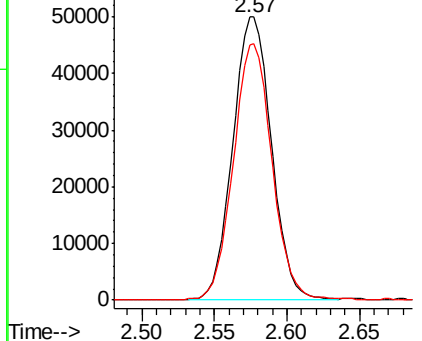
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.790 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052731.D

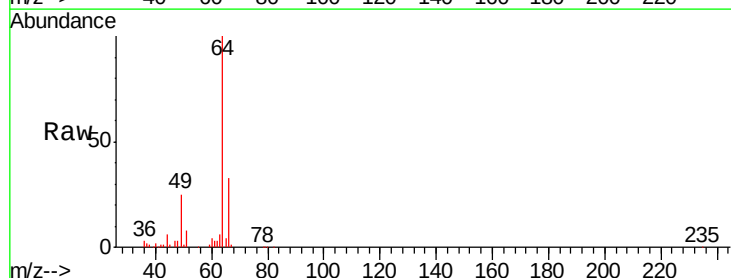
Acq: 7 Dec 2018 17:12

Tgt Ion: 64 Resp: 133842

Ion Ratio Lower Upper

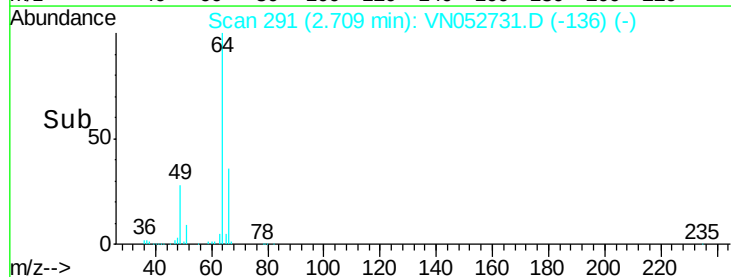
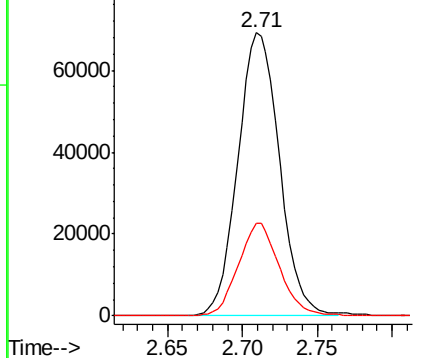
64 100

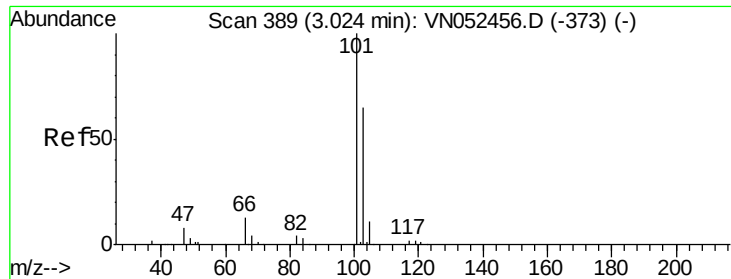
66 32.6 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

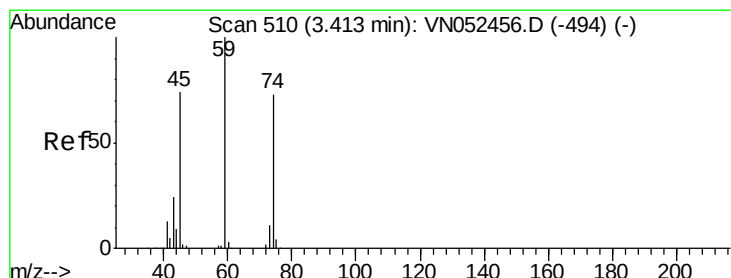
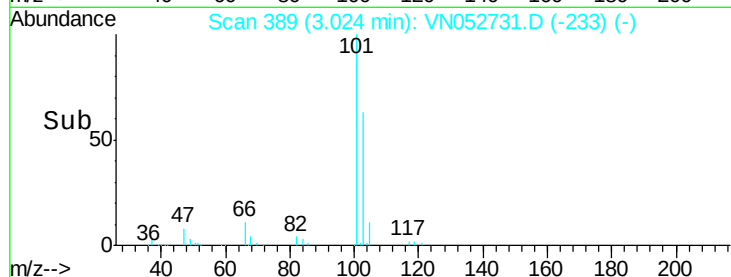
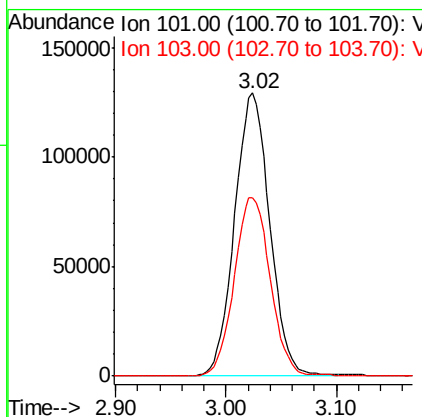
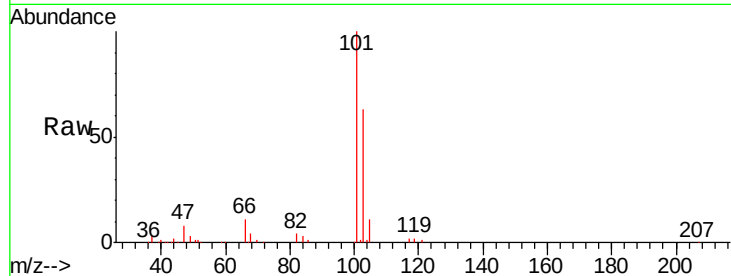
Trichlorofluoromethane
Concen: 20.357 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

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ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.1	78.1

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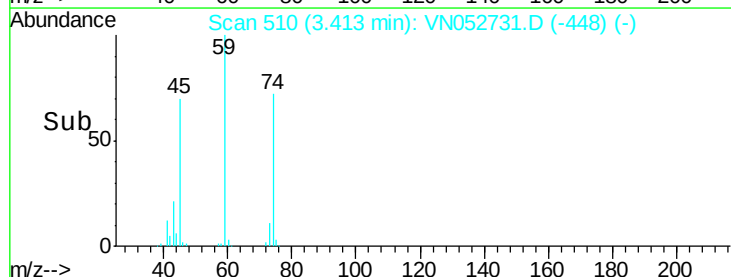
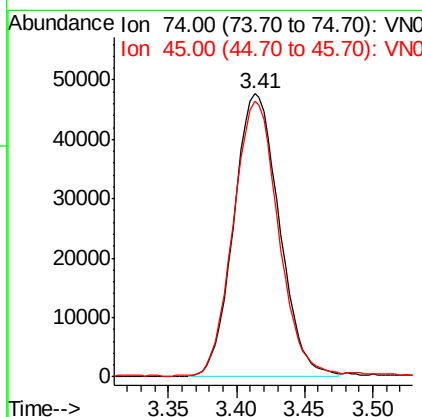
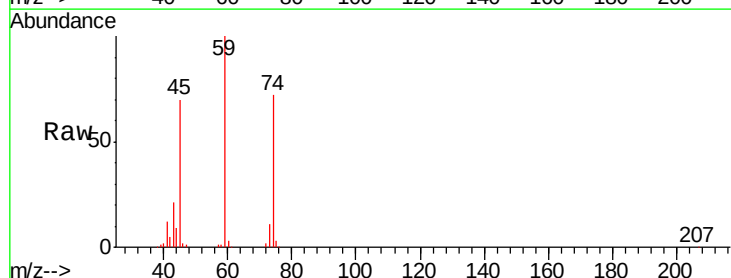
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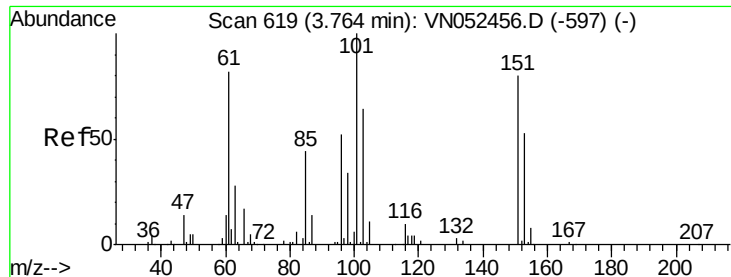


#8

Diethyl Ether
Concen: 21.314 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.8	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.414 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

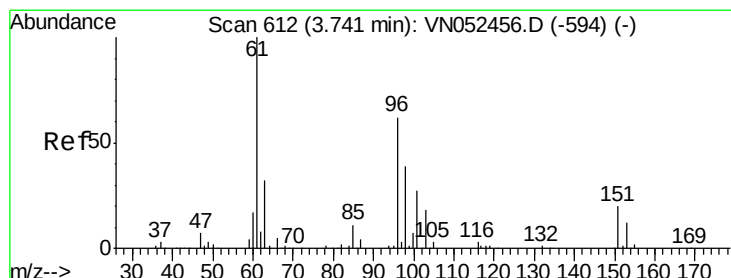
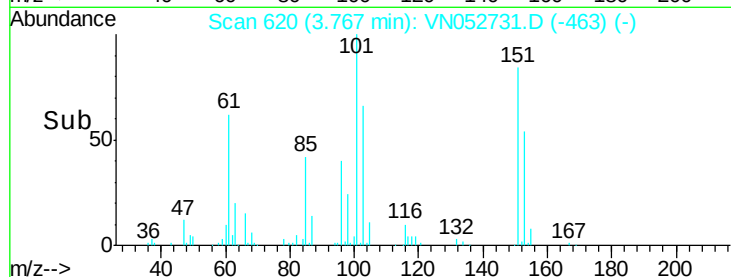
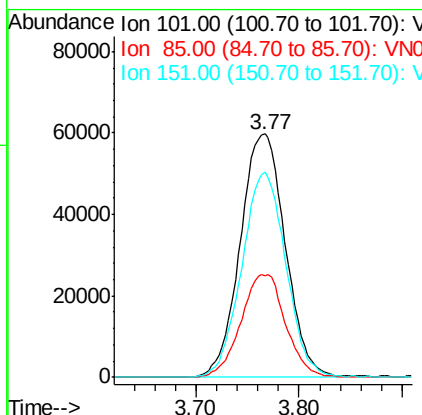
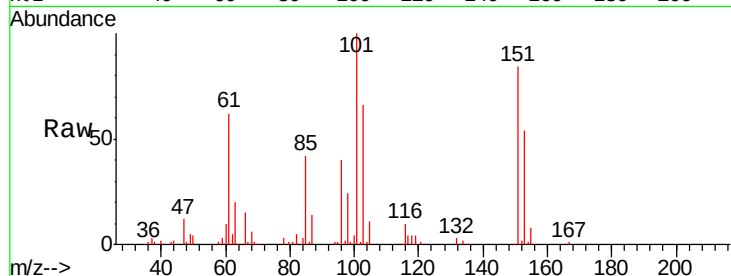
ClientSampleId :

VN1207WBSD01

Tgt Ion:	101	Resp:	181636
Ion Ratio	Lower	Upper	
101	100		
85	23.6	0.0	82.6
151	82.3	0.0	158.4

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 20.530 ug/l

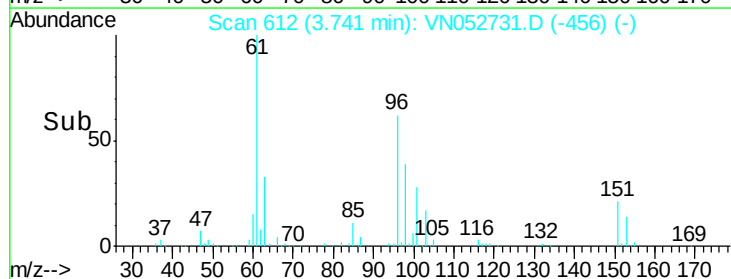
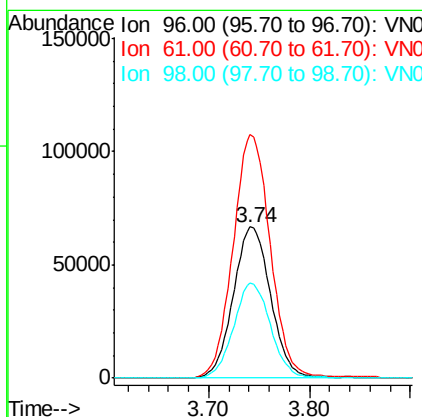
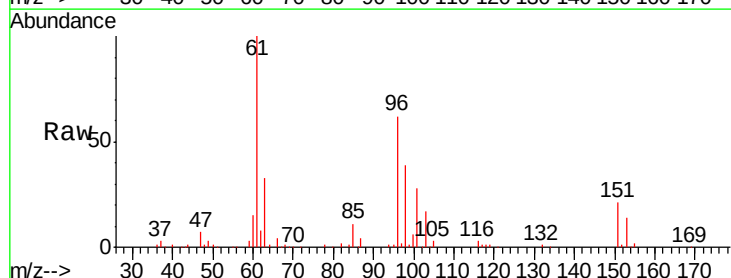
RT: 3.74 min Scan# 612

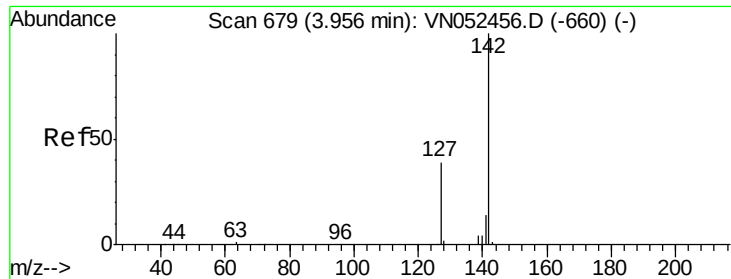
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	96	Resp:	171747
Ion Ratio	Lower	Upper	
96	100		
61	161.4	129.4	194.2
98	63.2	50.4	75.6





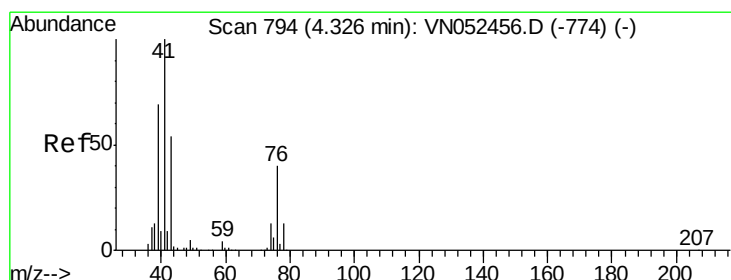
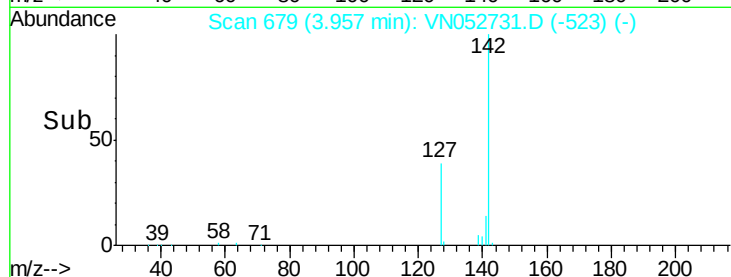
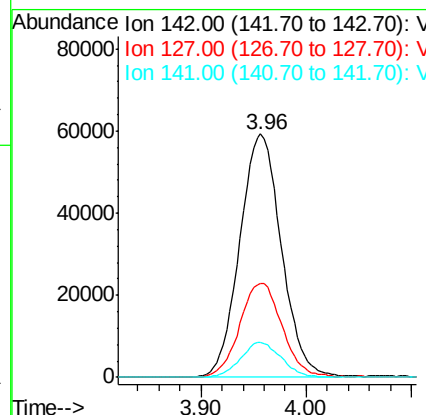
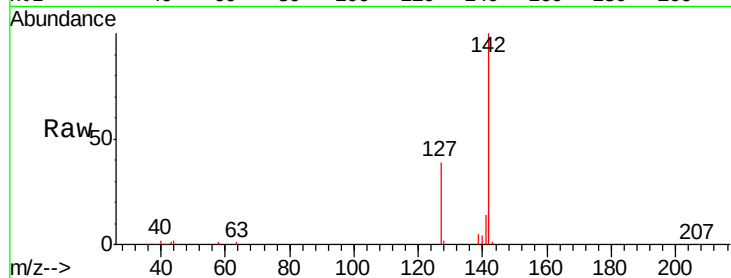
#11
Methyl Iodide
Concen: 14.019 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
142	100		
127	38.5	19.4	58.1
141	14.2	7.2	21.6

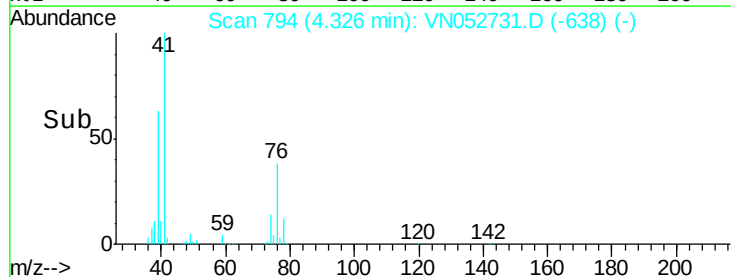
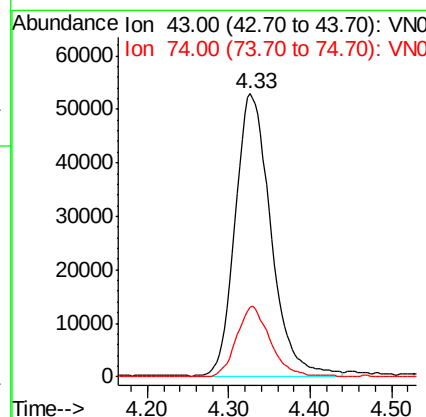
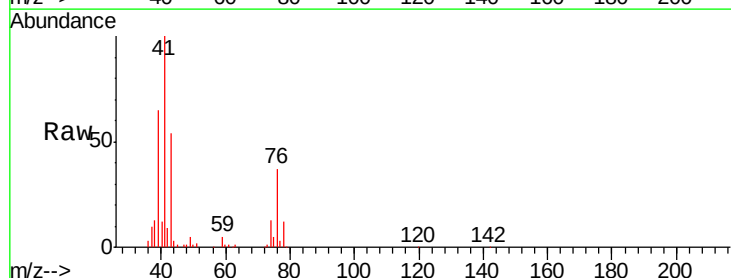
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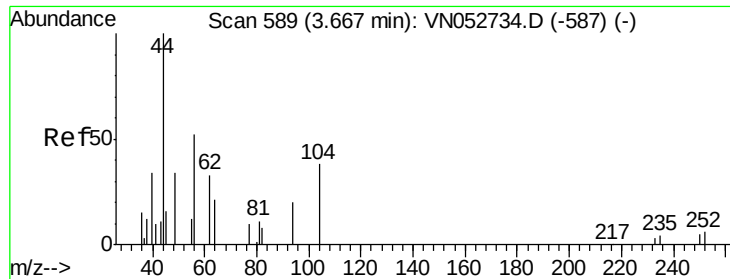
MMDadoda
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#12
Methyl Acetate
Concen: 22.554 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	18.9	28.3





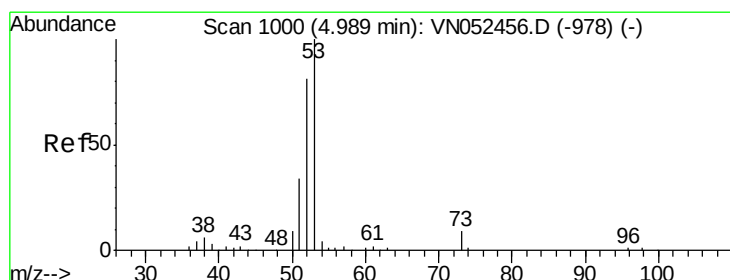
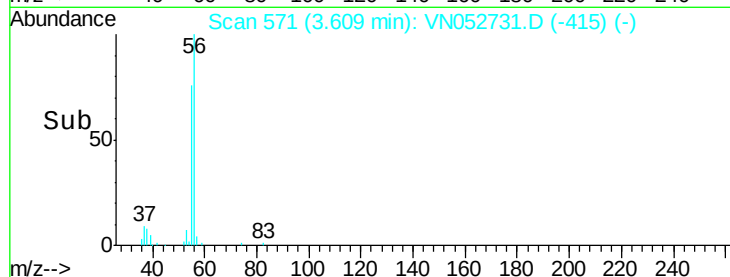
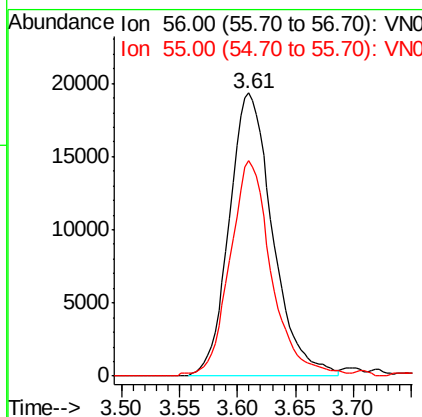
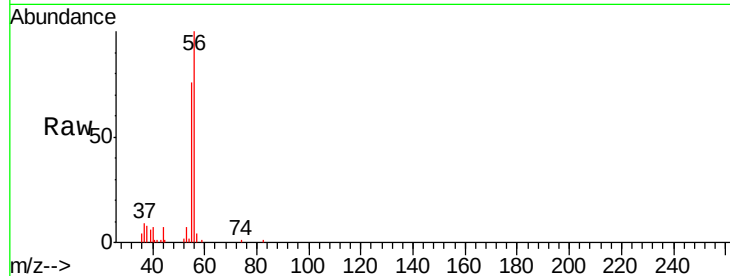
#13
 Acrolein
 Concen: 60.323 ug/l
 RT: 3.61 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion: 56 Resp: 50367
 Ion Ratio Lower Upper
 56 100
 55 72.5 56.7 85.1

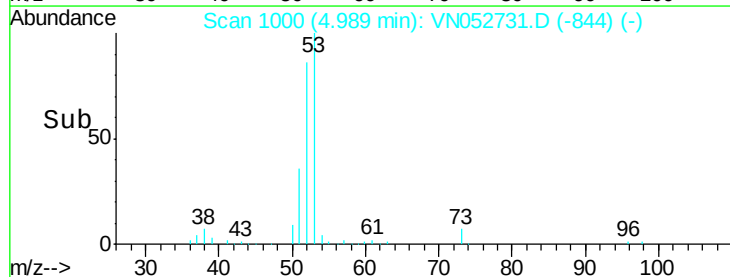
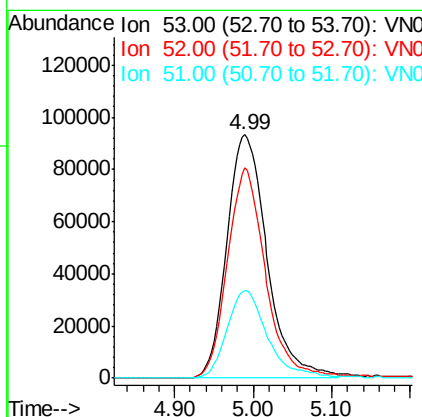
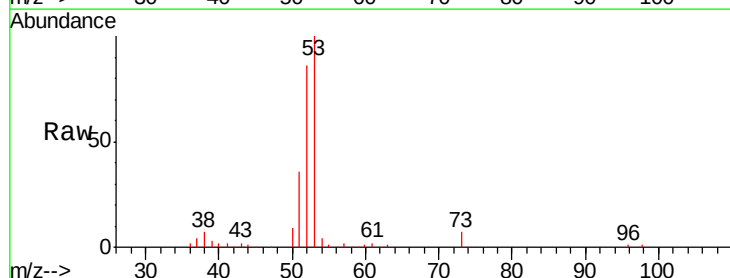
Manual Integrations
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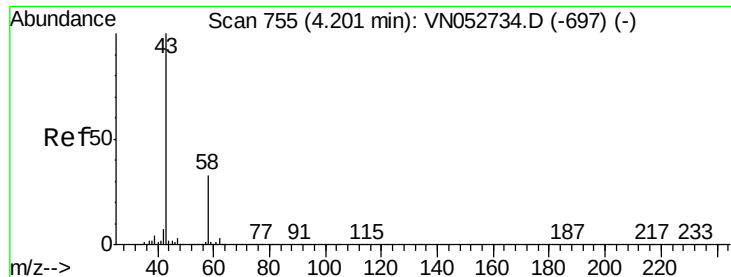
MMDadoda
 12/10/2018 12:51:02 PM



#14
 Acrylonitrile
 Concen: 109.760 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 53 Resp: 332419
 Ion Ratio Lower Upper
 53 100
 52 81.9 39.9 119.7
 51 36.2 17.6 52.9





#15

Acetone

Concen: 105.332 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 58 Resp: 82616

Ion Ratio Lower Upper

58 100

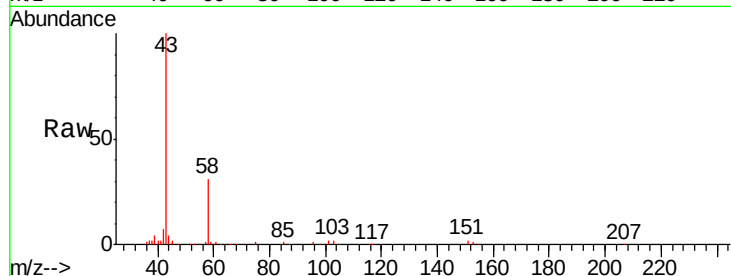
43 317.9 243.6 365.4

Manual Integrations

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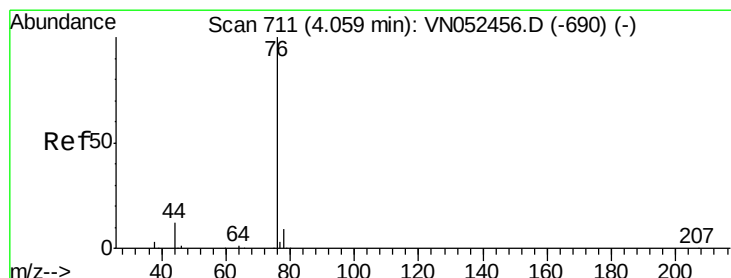
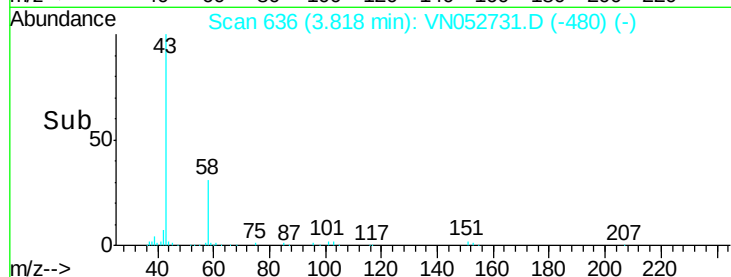
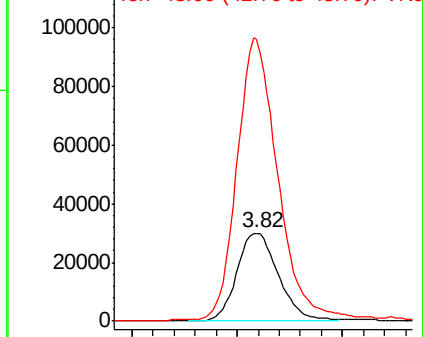
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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 18.557 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052731.D

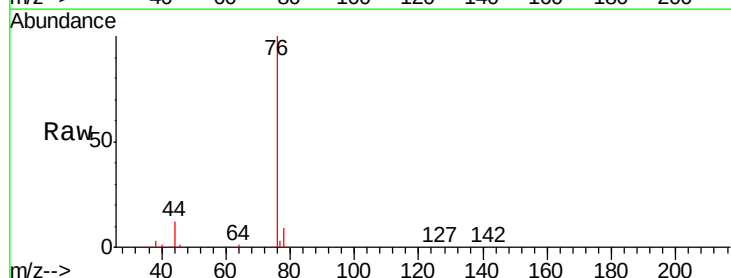
Acq: 7 Dec 2018 17:12

Tgt Ion: 76 Resp: 491486

Ion Ratio Lower Upper

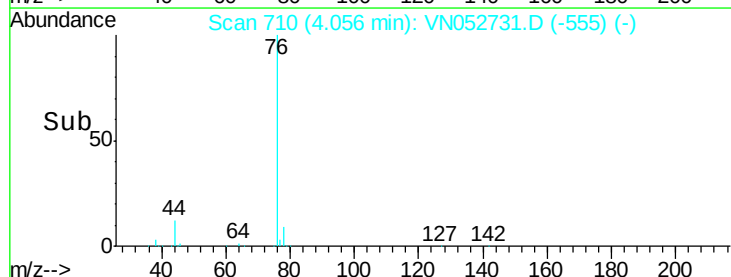
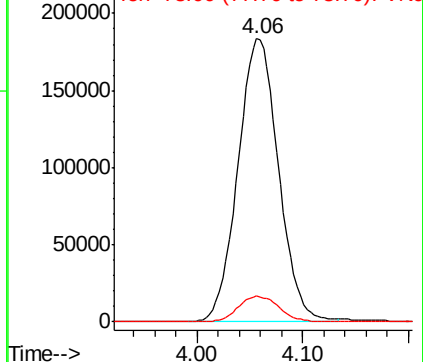
76 100

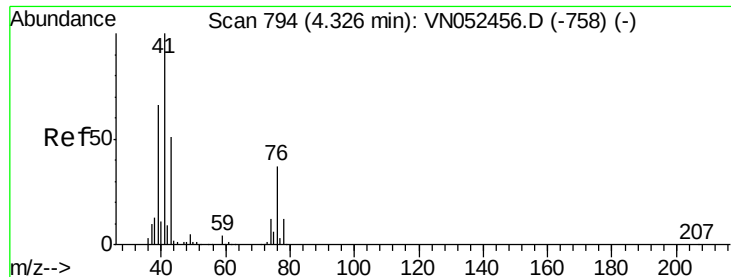
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





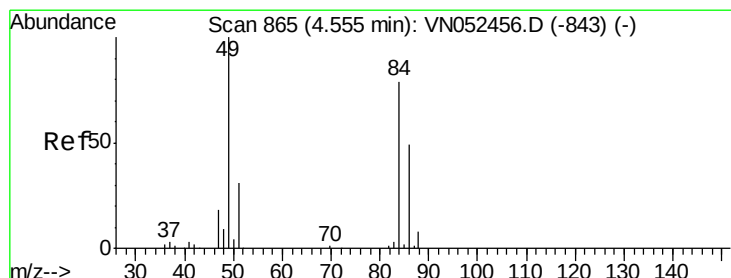
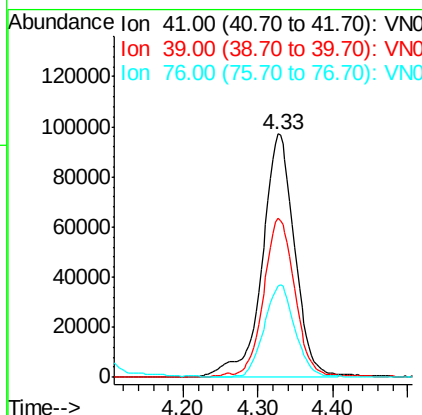
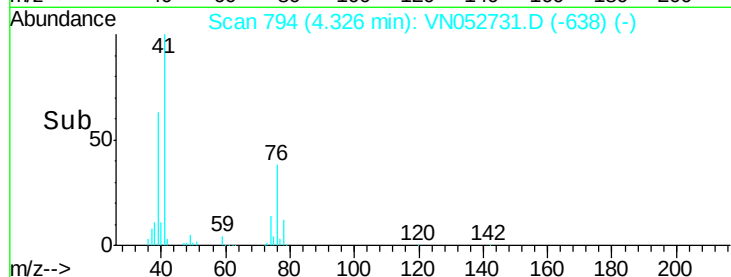
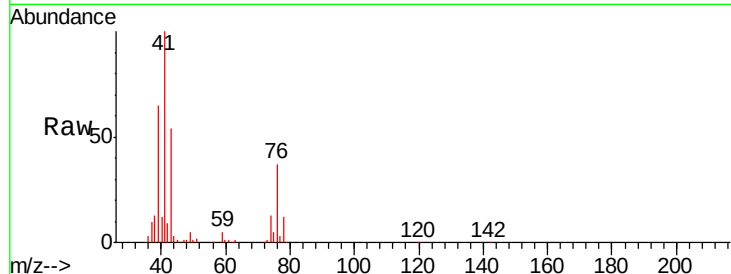
#17
 Allyl chloride
 Concen: 20.097 ug/l
 RT: 4.33 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	65.3	32.8	98.3
76	36.7	18.6	55.8

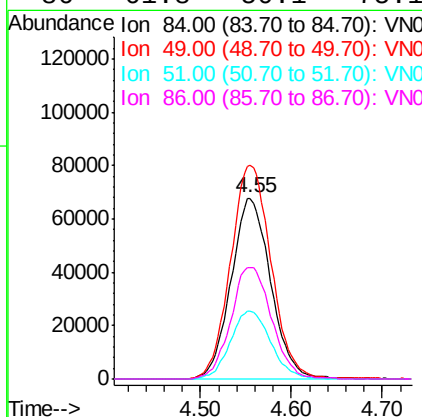
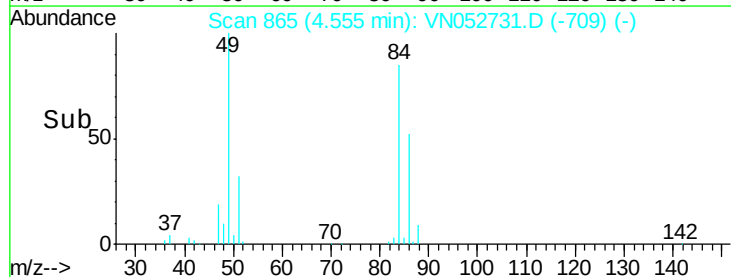
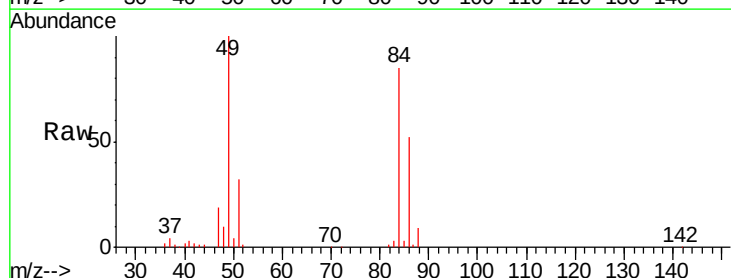
Manual Integrations
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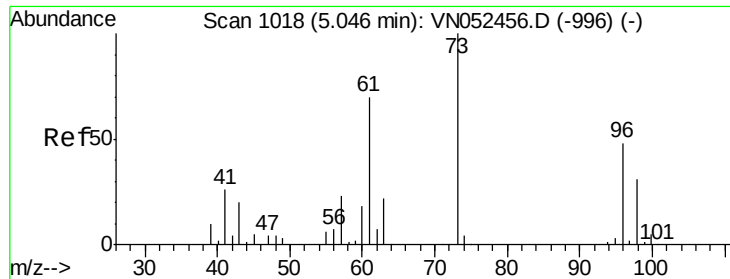
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#18
 Methylene Chloride
 Concen: 21.164 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.7	101.4	152.0
51	37.2	31.7	47.5
86	61.8	50.1	75.1





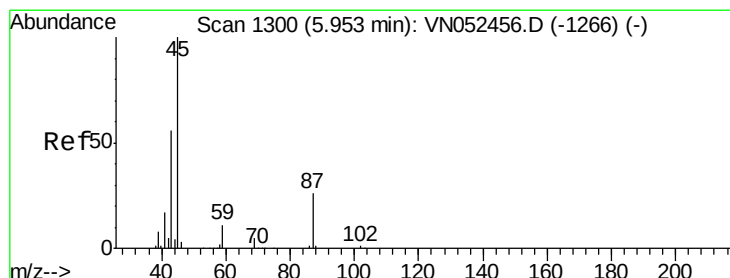
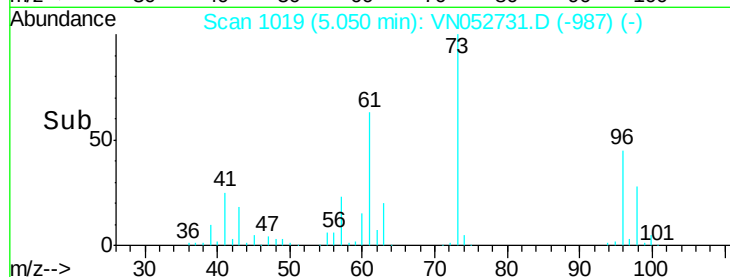
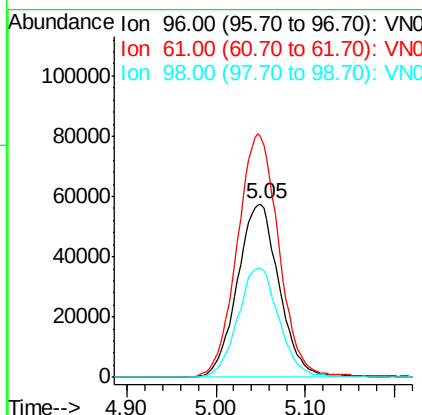
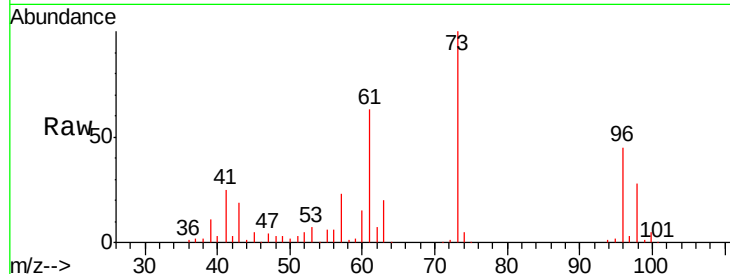
#19
trans-1,2-Dichloroethene
Concen: 20.643 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.8	118.2	177.4
98	62.7	51.4	77.2

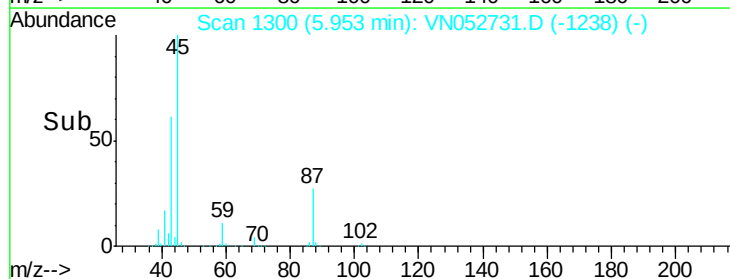
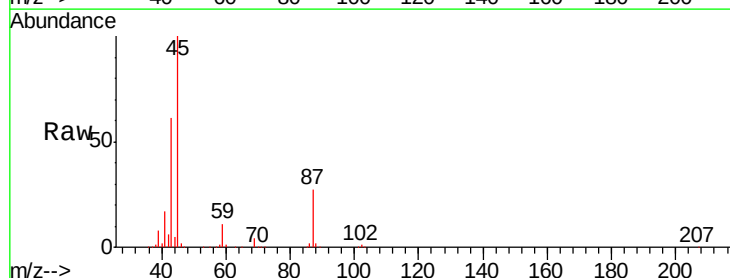
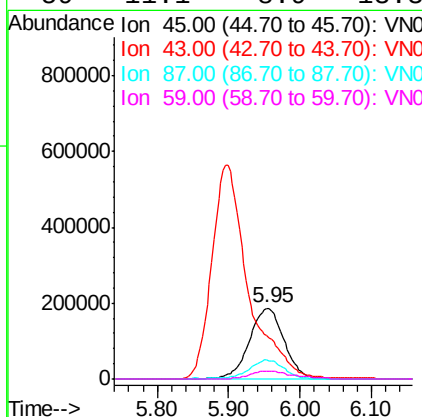
Manual Integrations
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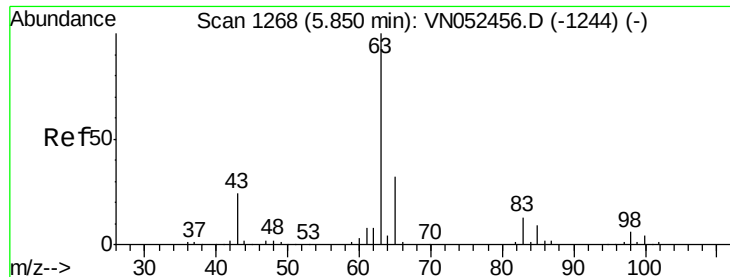
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#20
Diisopropyl ether
Concen: 20.577 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	47.8	71.8
87	26.6	21.3	31.9
59	11.1	8.9	13.3





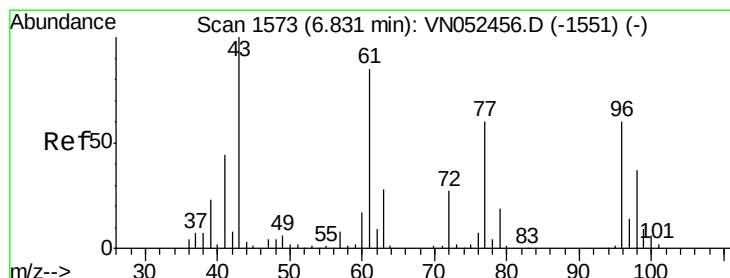
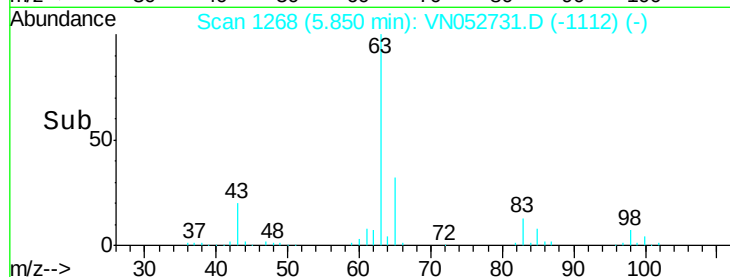
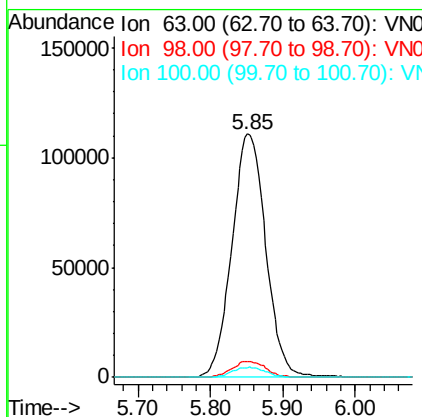
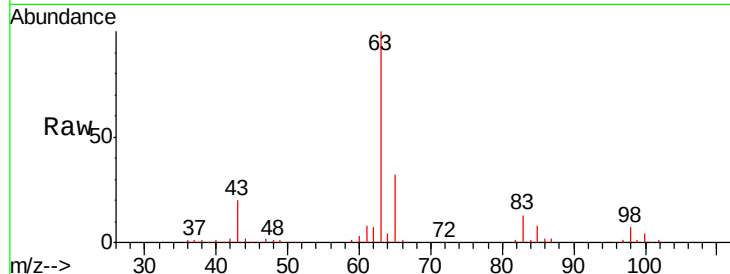
#21
 1,1-Dichloroethane
 Concen: 20.638 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Resp Lower	Resp Upper
63	100		
98	6.7	3.0	9.2
100	4.0	1.8	5.5

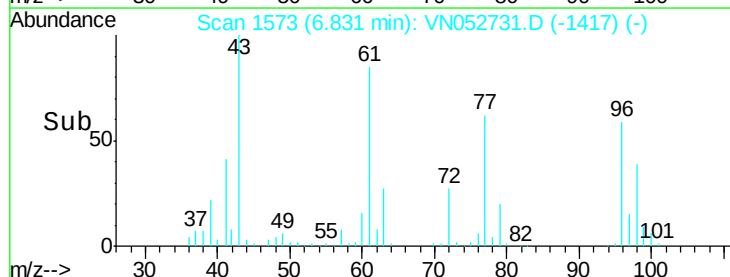
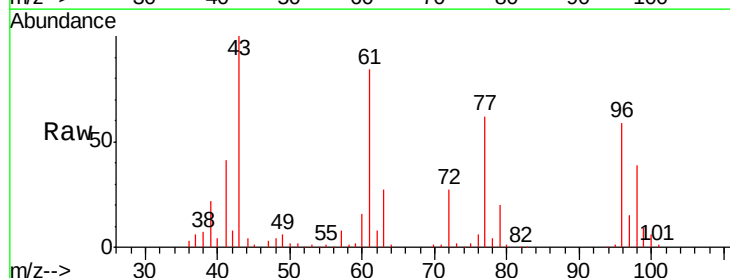
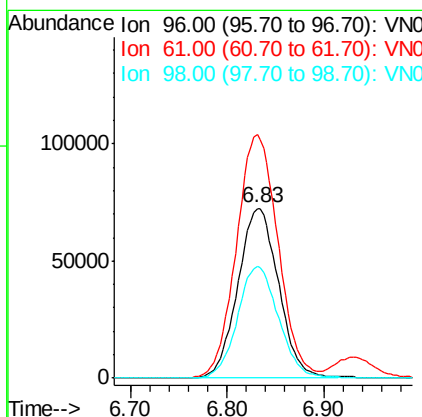
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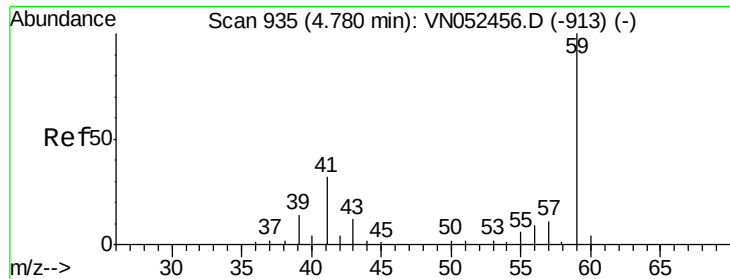
MMDadoda
 12/10/2018 12:51:02 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.590 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	146.5	116.7	175.1
98	66.3	50.8	76.2





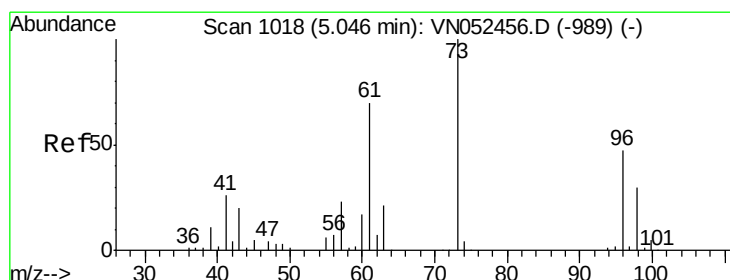
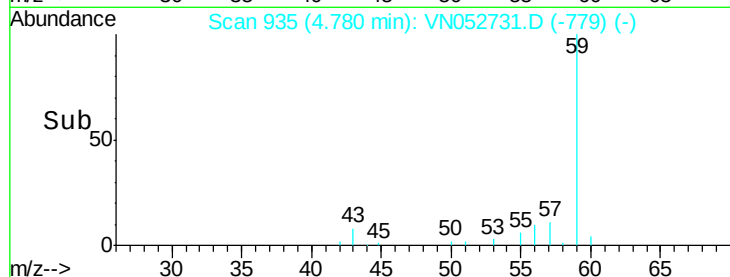
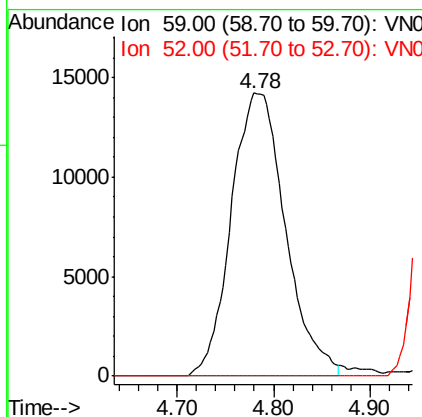
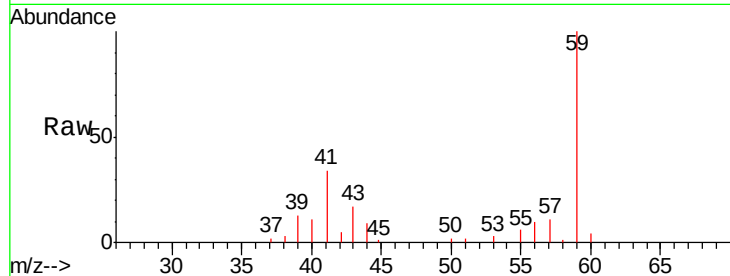
#23
 tert-Butyl Alcohol
 Concen: 122.803 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion: 59 Resp: 55327
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

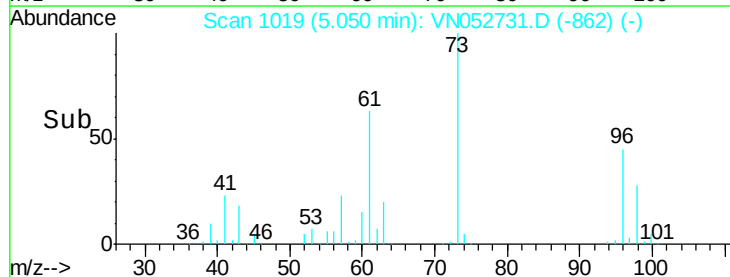
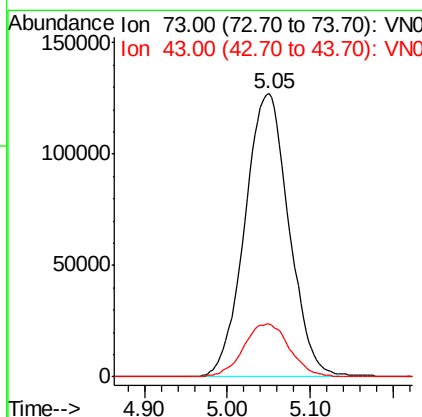
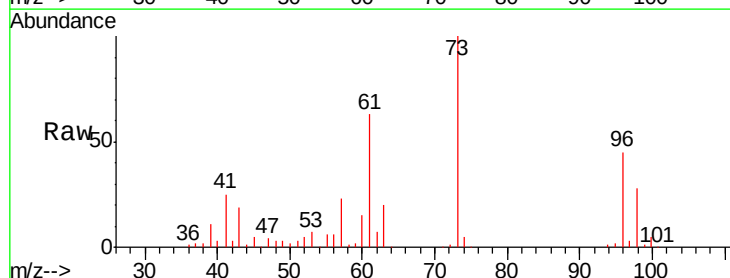
Manual Integrations
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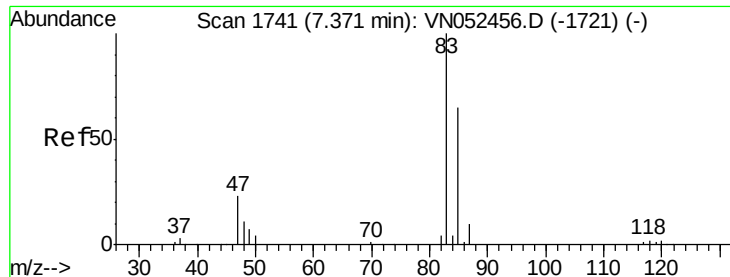
MMDadoda
 12/10/2018 12:51:02 PM



#24
 Methyl tert-Butyl Ether
 Concen: 21.446 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 73 Resp: 470662
 Ion Ratio Lower Upper
 73 100
 43 19.0 15.8 23.8





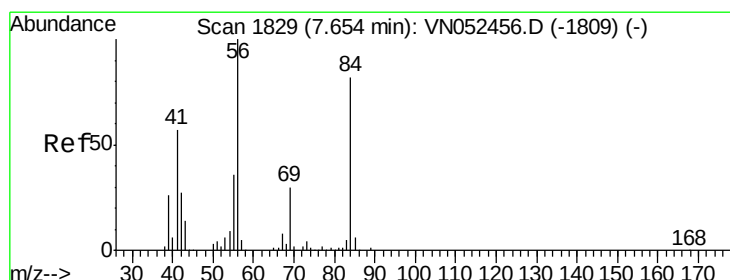
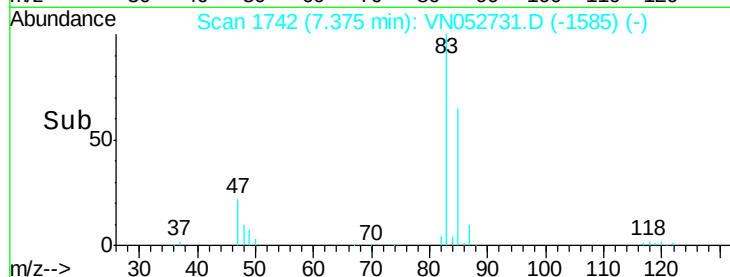
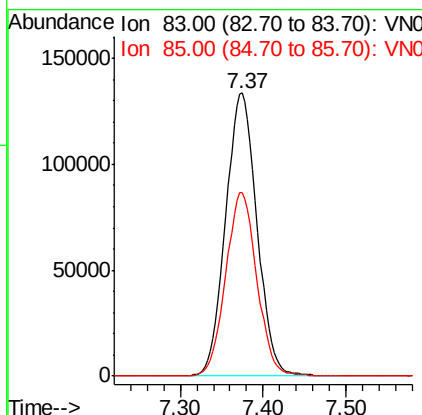
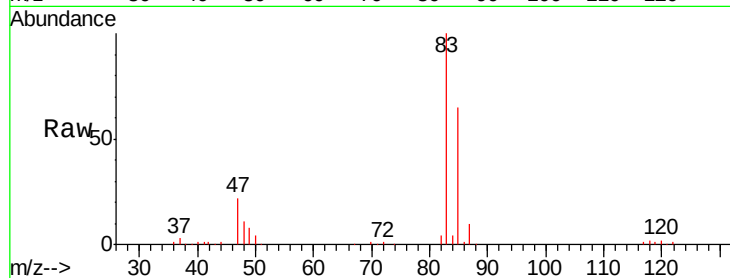
#25
Chloroform
Concen: 20.875 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion: 83 Resp: 351923
Ion Ratio Lower Upper
83 100
85 64.8 51.7 77.5

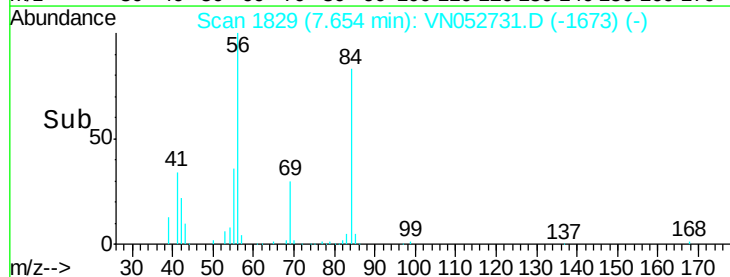
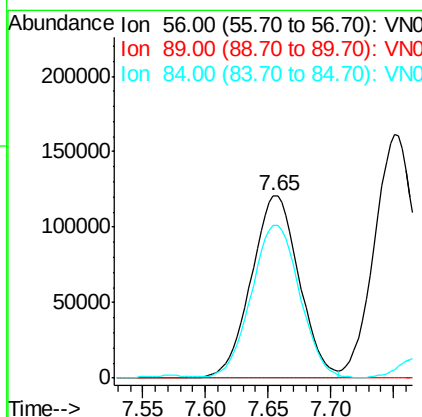
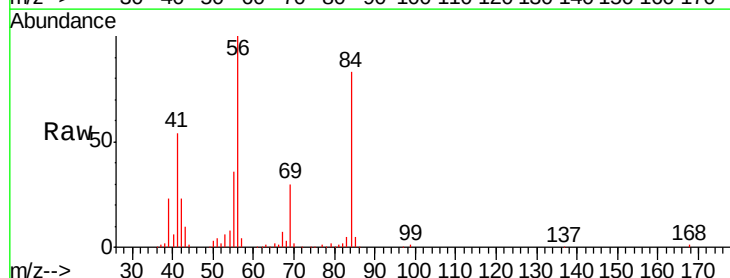
Manual Integrations
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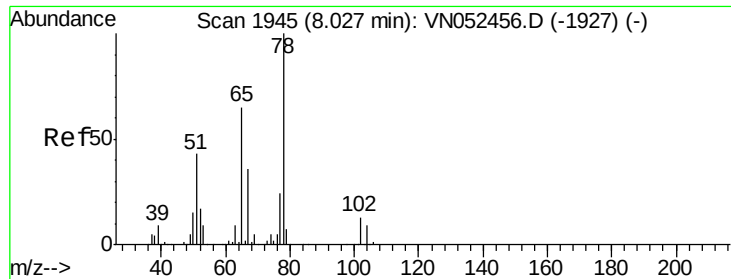
MMDadoda
12/10/2018 12:51:02 PM



#26
Cyclohexane
Concen: 19.439 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion: 56 Resp: 320376
Ion Ratio Lower Upper
56 100
89 0.0 0.5 0.7#
84 85.1 66.2 99.2





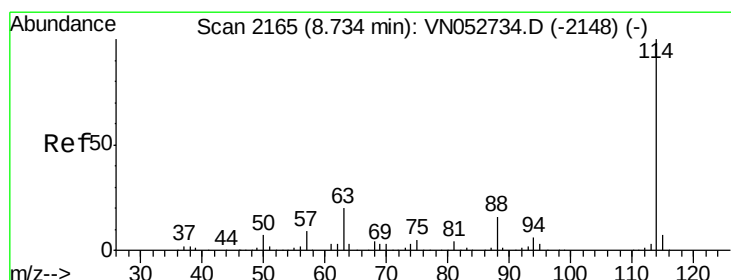
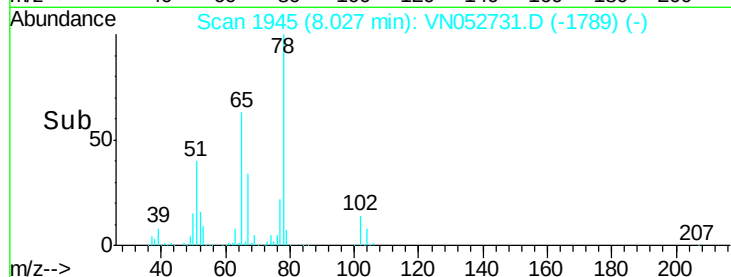
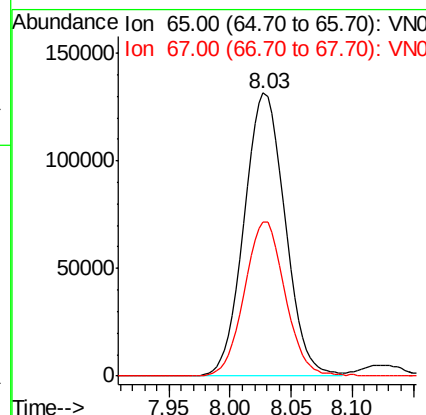
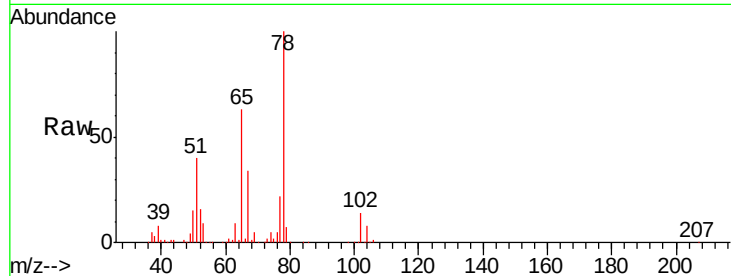
#27
 1,2-Dichloroethane-d4
 Concen: 19.439 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion: 65 Resp: 306002
 Ion Ratio Lower Upper
 65 100
 67 53.8 44.6 66.8

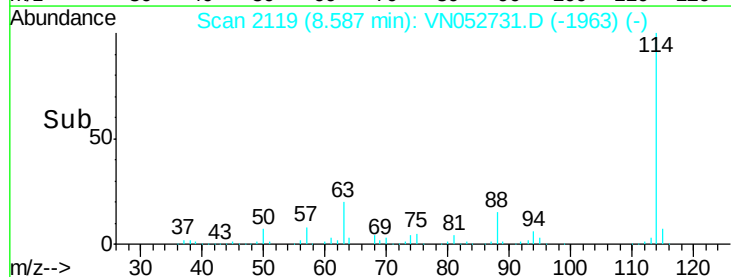
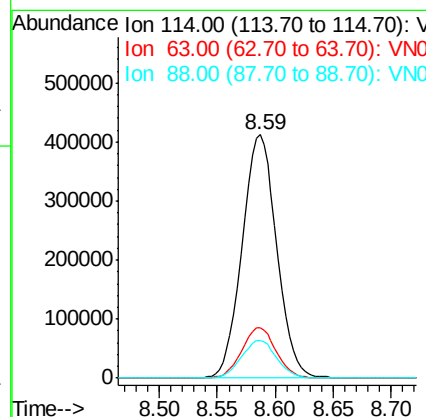
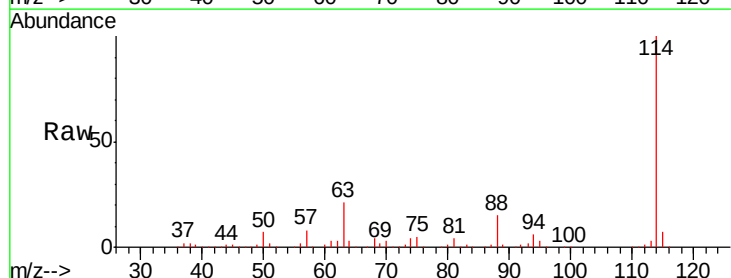
Manual Integrations
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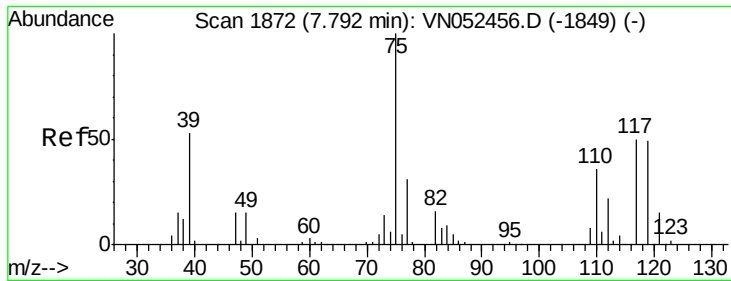
MMDadoda
 12/10/2018 12:51:02 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 114 Resp: 853170
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.9 25.3
 88 15.7 12.8 19.2





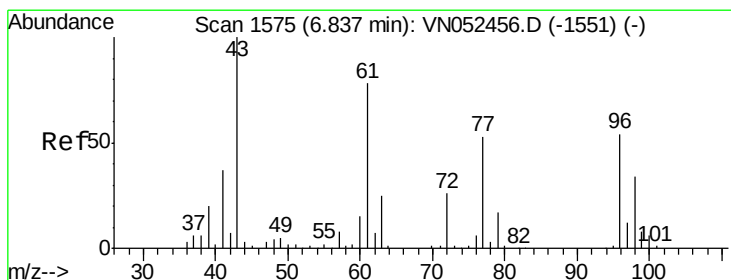
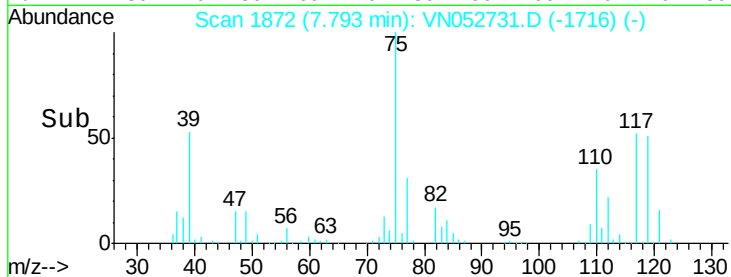
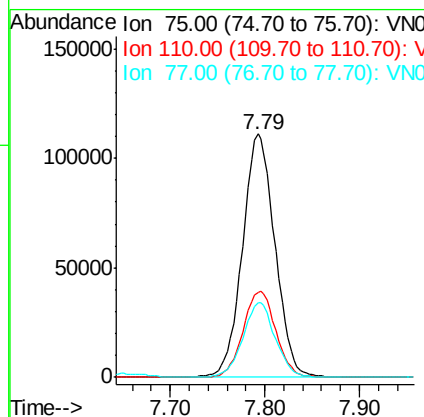
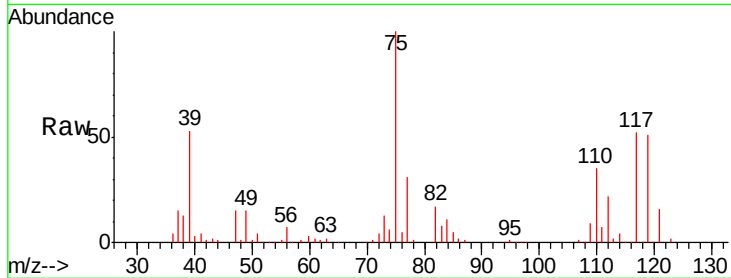
#29
 1,1-Dichloropropene
 Concen: 20.328 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Resp Lower	Resp Upper
75	100		
110	35.7	0.0	70.2
77	30.8	0.0	62.6

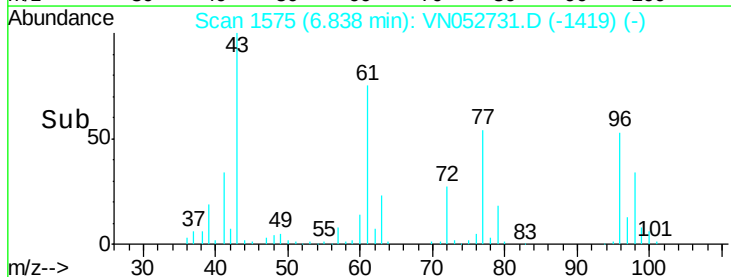
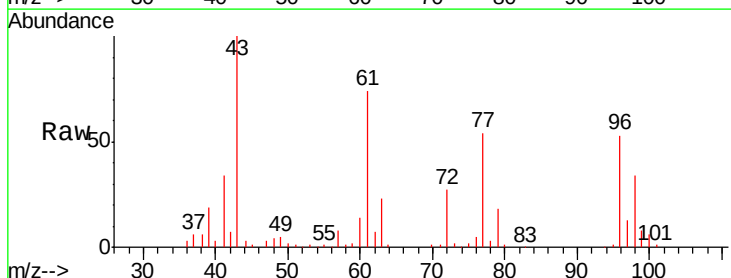
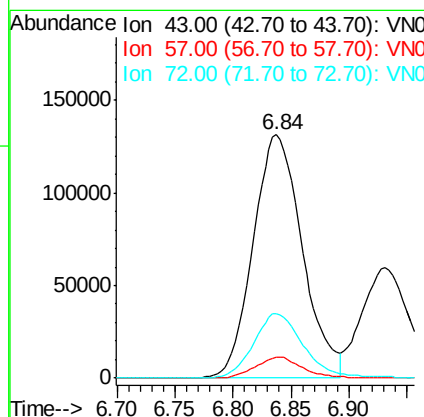
Manual Integrations
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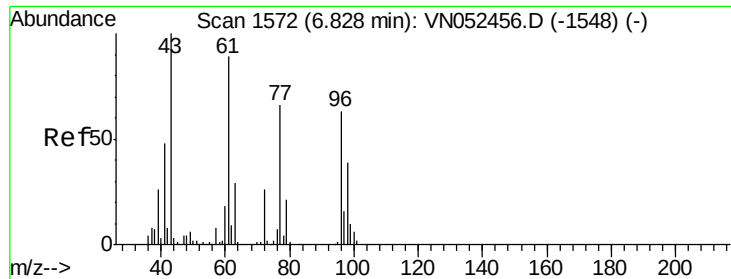
MMDadoda
 12/10/2018 12:51:02 PM



#30
 2-Butanone
 Concen: 110.769 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
57	8.2	6.2	9.4
72	26.8	21.0	31.6





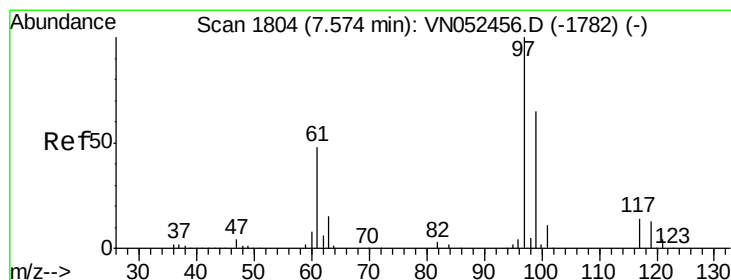
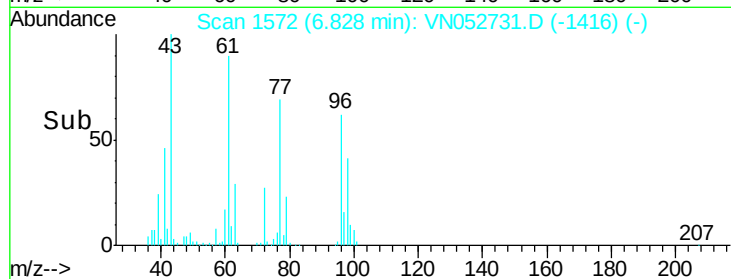
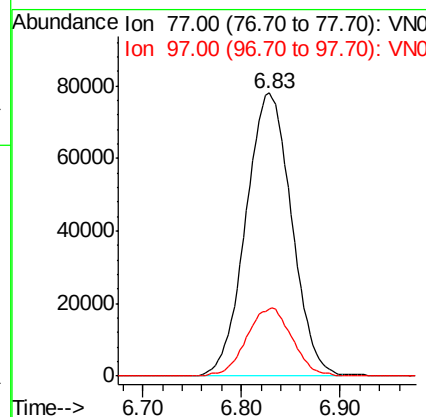
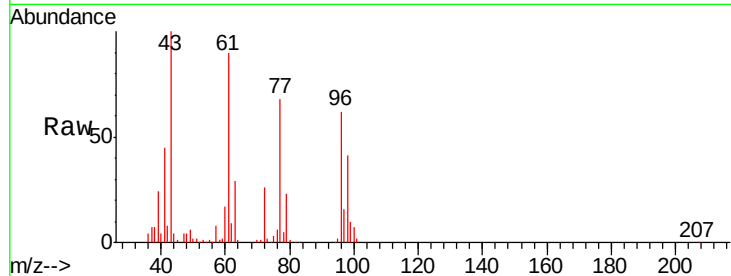
#31
 2,2-Dichloropropane
 Concen: 20.872 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion: 77 Resp: 250355
 Ion Ratio Lower Upper
 77 100
 97 23.7 18.7 28.1

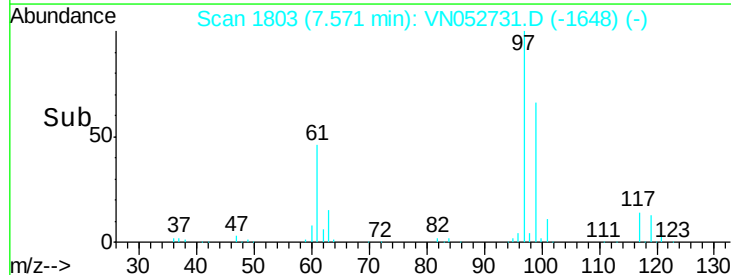
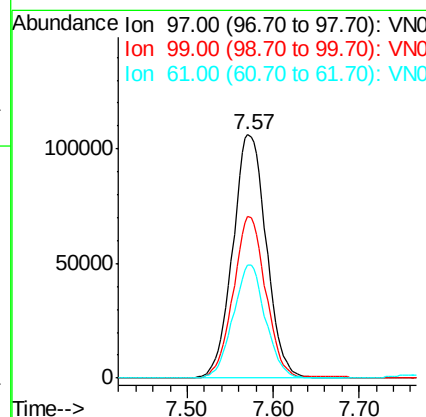
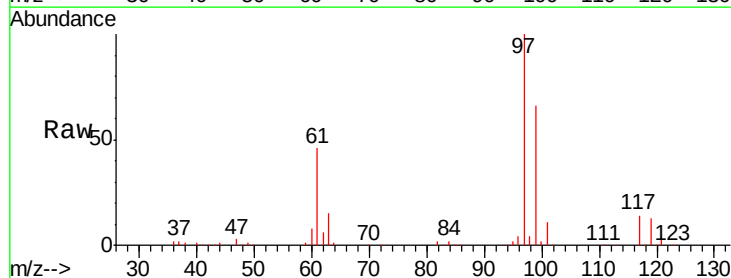
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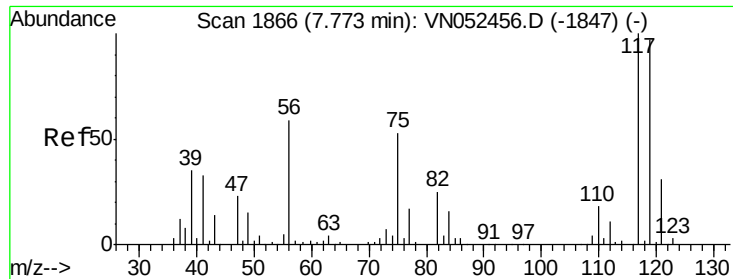
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#32
 1,1,1-Trichloroethane
 Concen: 21.215 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 97 Resp: 287601
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.9 76.3
 61 44.7 38.1 57.1





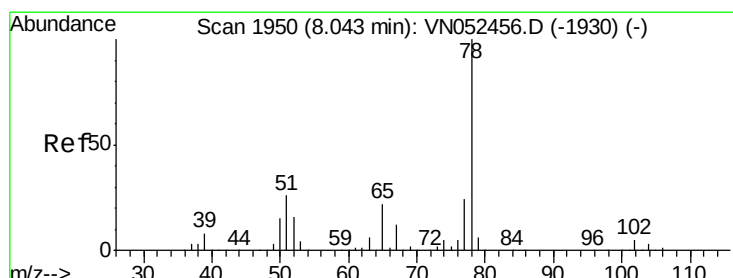
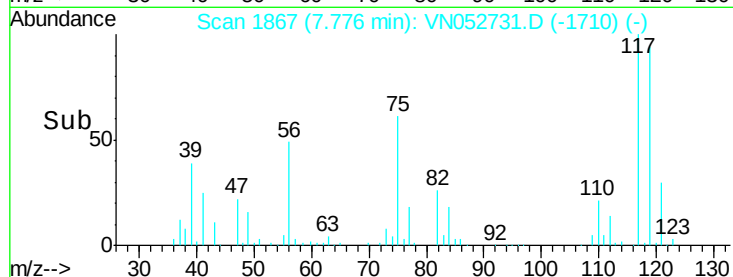
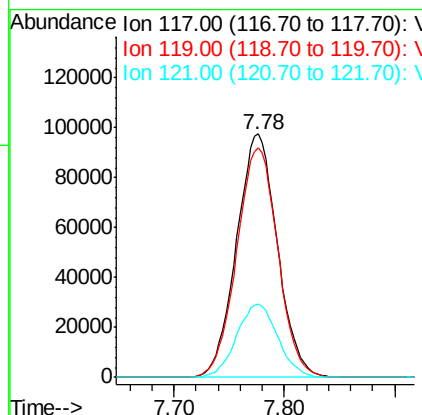
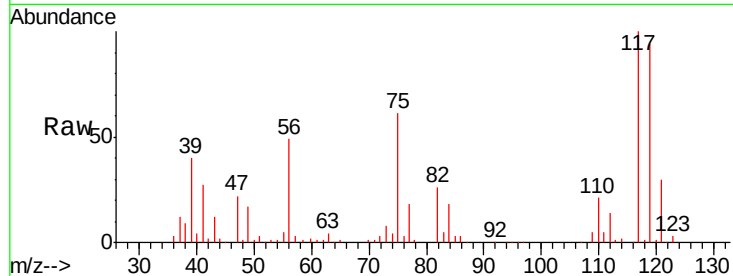
#33
Carbon Tetrachloride
Concen: 21.046 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	249649		
119	94.0	77.3	115.9	
121	29.9	24.9	37.3	

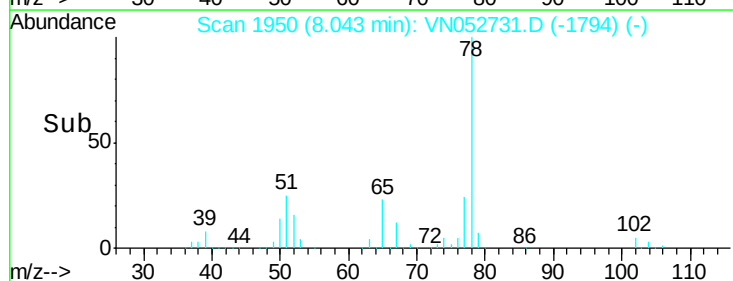
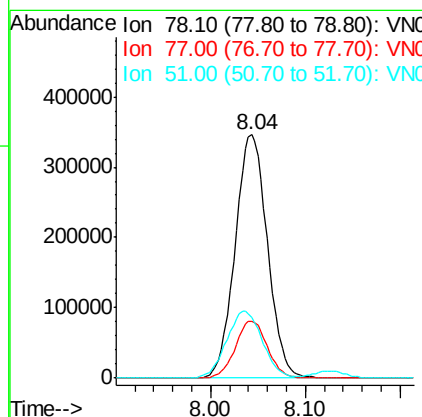
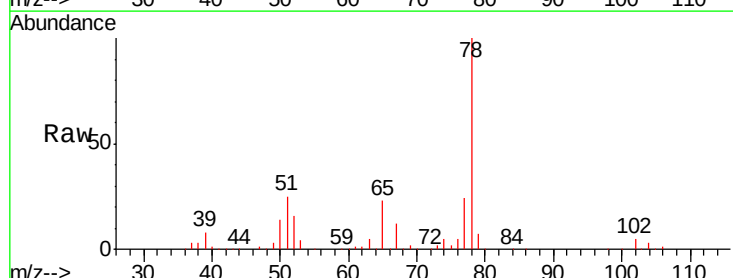
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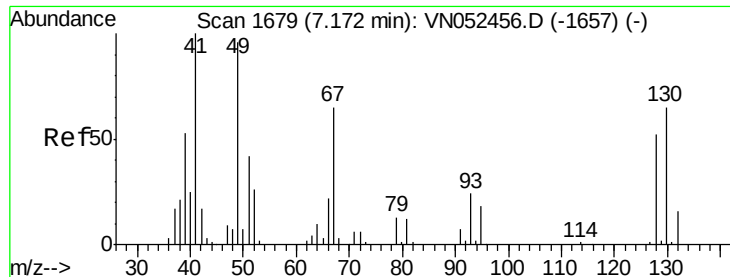
MMDadoda
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#34
Benzene
Concen: 20.971 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	821461		
77	23.6	19.0	28.6	
51	25.0	20.5	30.7	





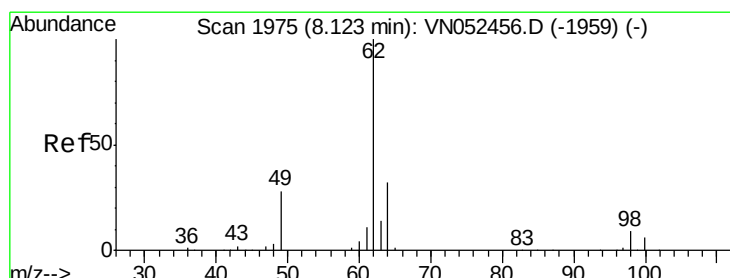
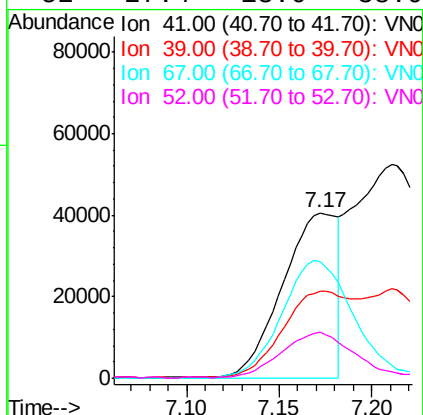
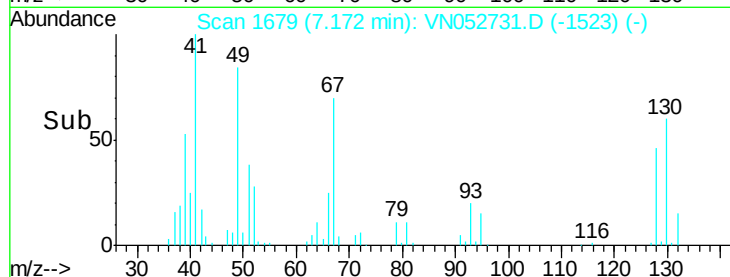
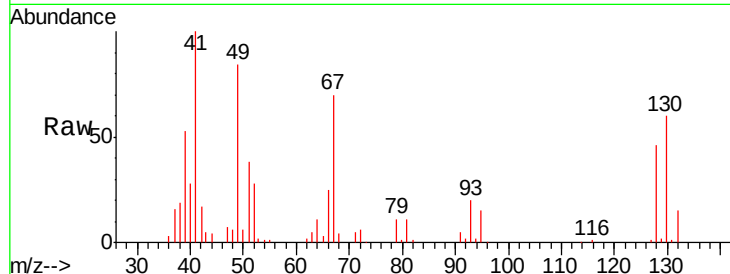
#35
Methacrylonitrile
Concen: 19.226 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	52.3	26.6	79.7
67	70.7	32.3	96.9
52	27.4	13.0	38.9

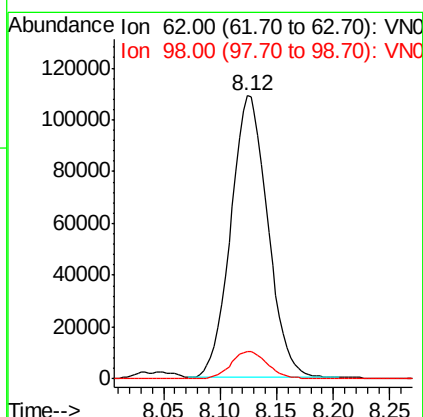
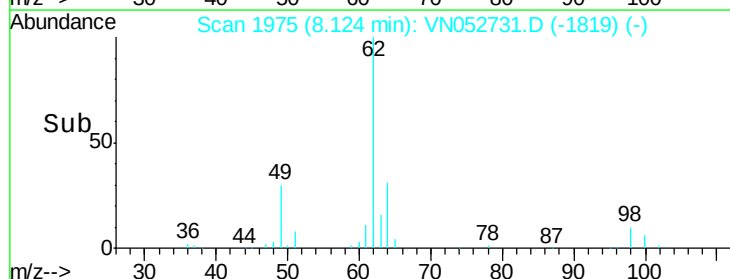
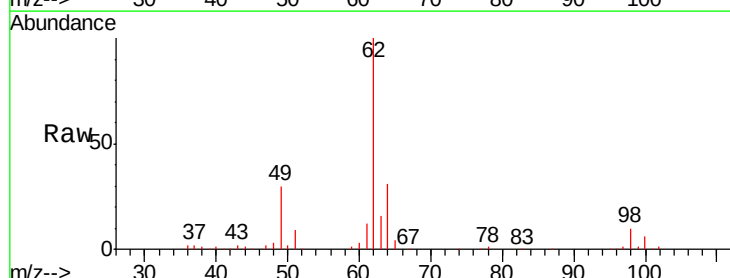
Manual Integrations
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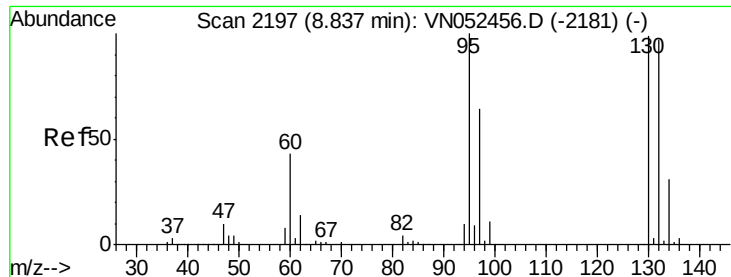
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#36
1,2-Dichloroethane
Concen: 20.808 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.4	11.2





#37

Trichloroethene

Concen: 20.668 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion:130 Resp: 205291

Ion Ratio Lower Upper

130 100

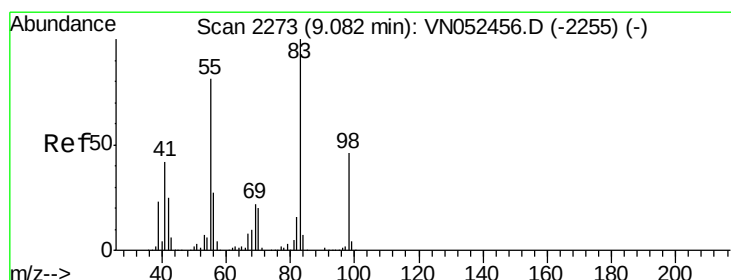
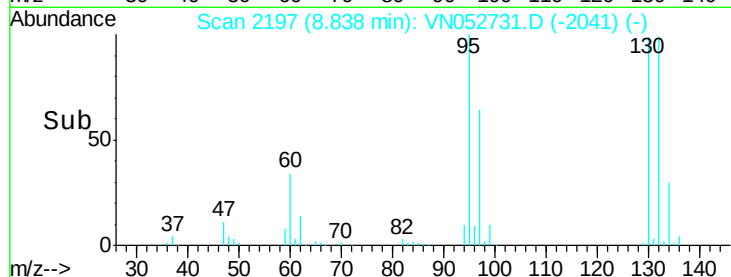
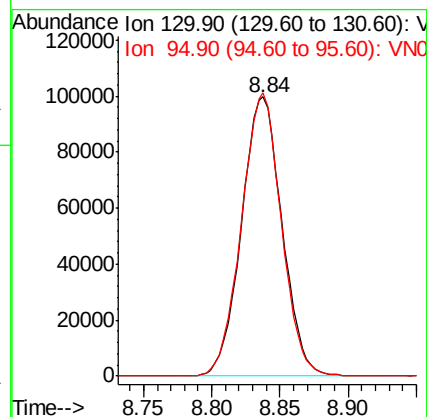
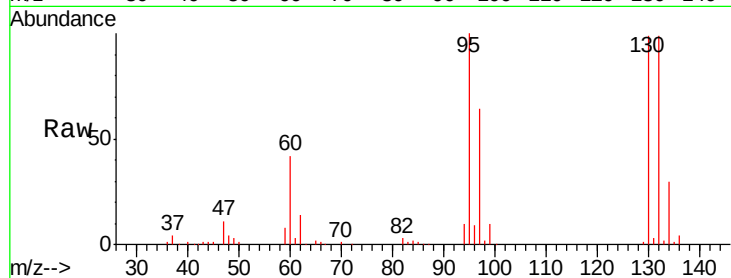
95 101.3 81.0 121.4

Manual Integrations

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#38

Methylcyclohexane

Concen: 20.058 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

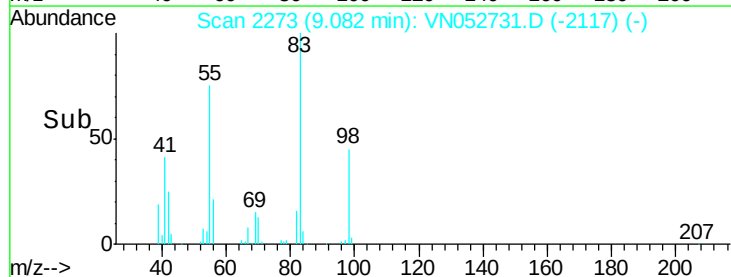
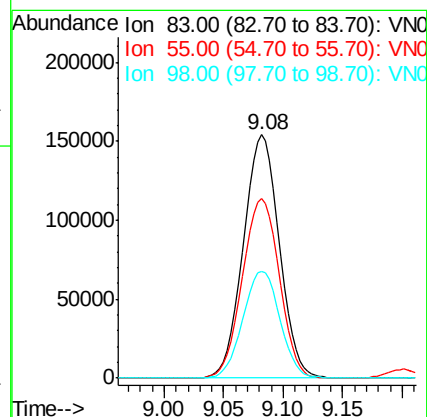
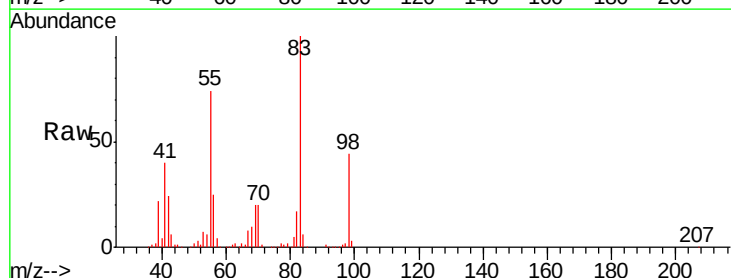
Tgt Ion: 83 Resp: 323496

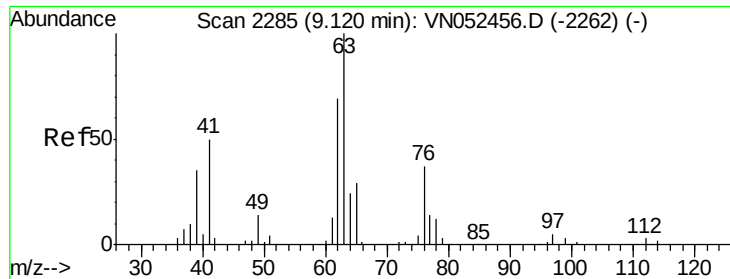
Ion Ratio Lower Upper

83 100

55 75.8 39.8 119.4

98 45.1 22.9 68.5





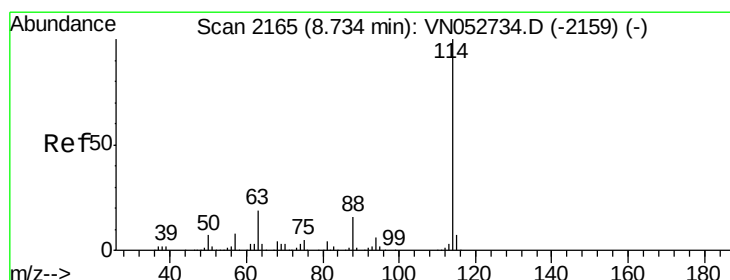
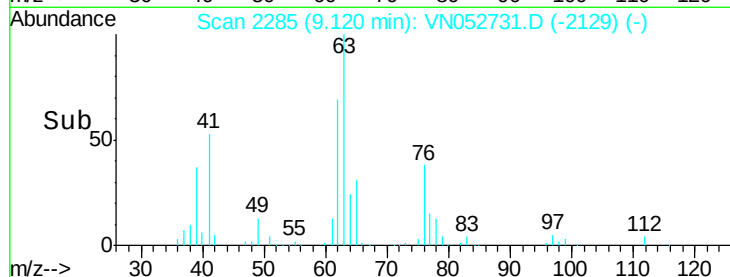
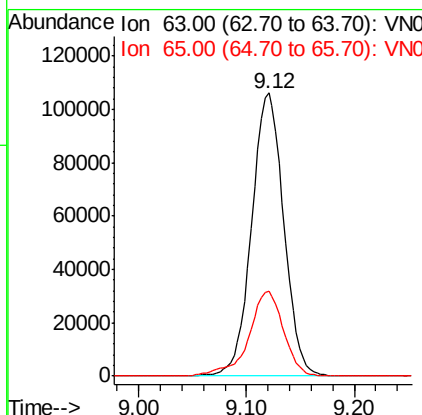
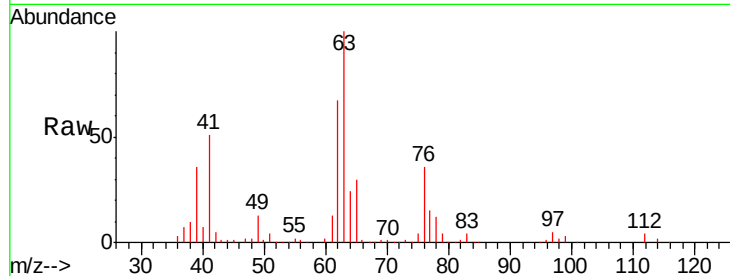
#39
 1,2-Dichloropropane
 Concen: 20.905 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion: 63 Resp: 219504
 Ion Ratio Lower Upper
 63 100
 65 29.7 23.6 35.4

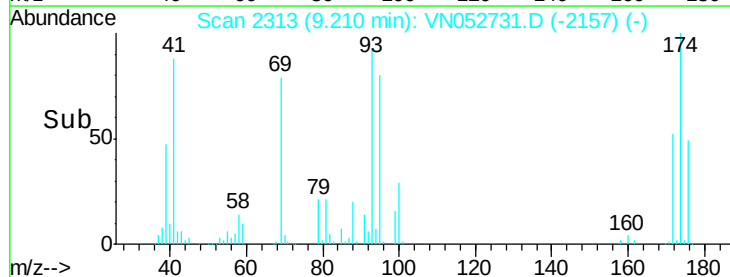
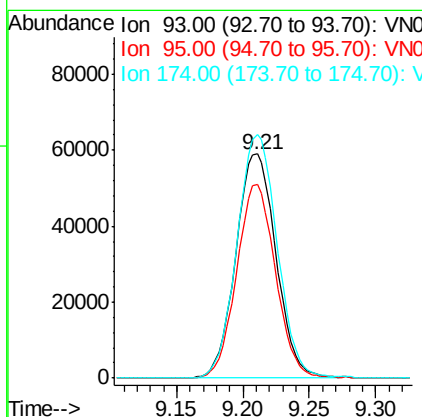
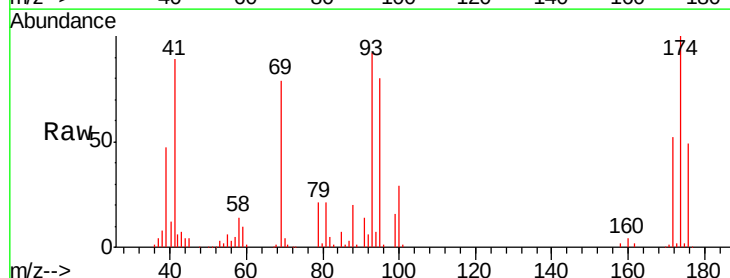
Manual Integrations
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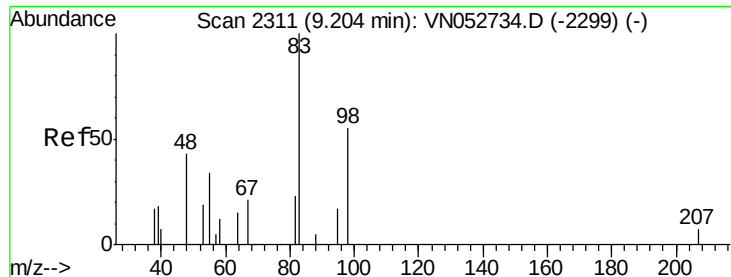
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#40
 Dibromomethane
 Concen: 21.974 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 93 Resp: 124686
 Ion Ratio Lower Upper
 93 100
 95 83.2 0.0 168.4
 174 108.7 0.0 210.0





#41

Bromodichloromethane

Concen: 20.839 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

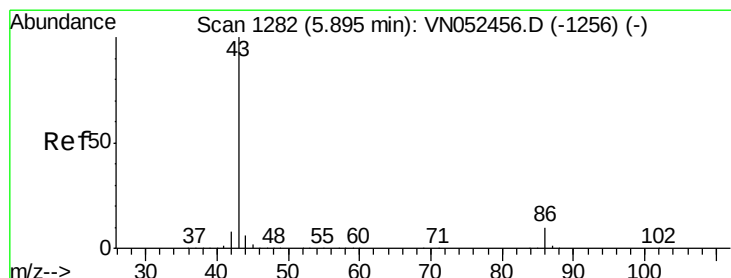
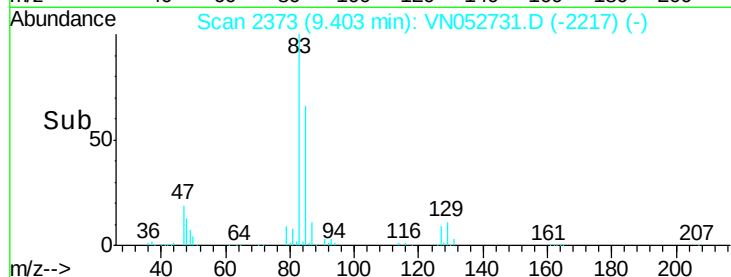
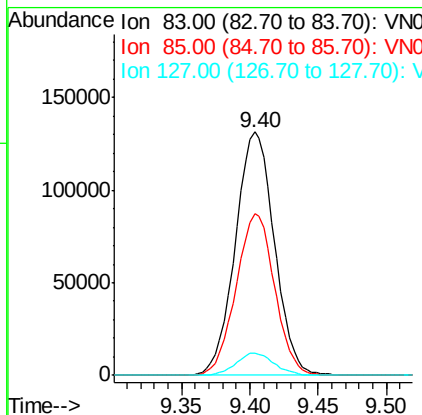
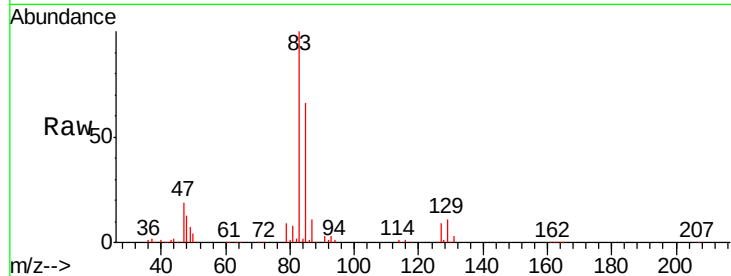
ClientSampleId :

VN1207WBSD01

Tgt Ion:	83	Resp:	261248
Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.4	78.6
127	9.2	6.6	9.8

Manual Integrations
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#42

Vinyl Acetate

Concen: 105.877 ug/l

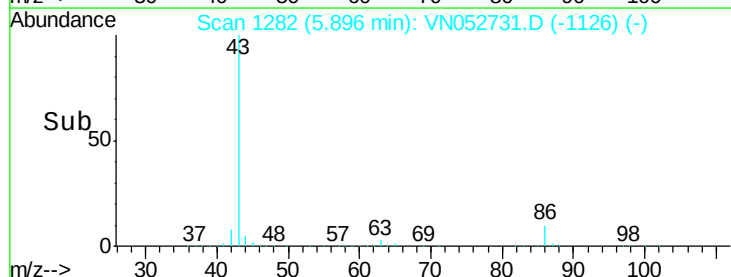
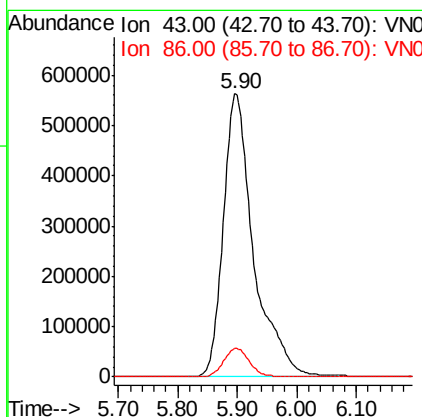
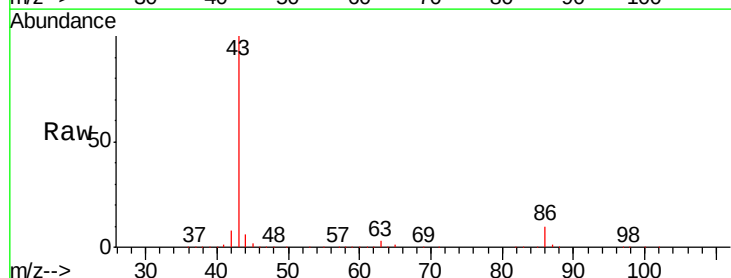
RT: 5.90 min Scan# 1282

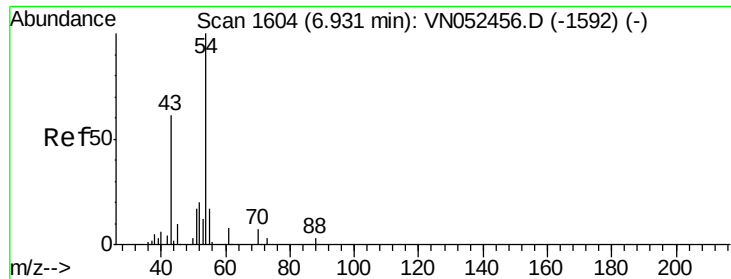
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	43	Resp:	1997152
Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.5	9.7





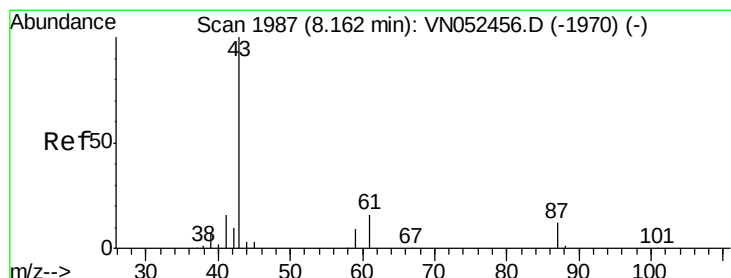
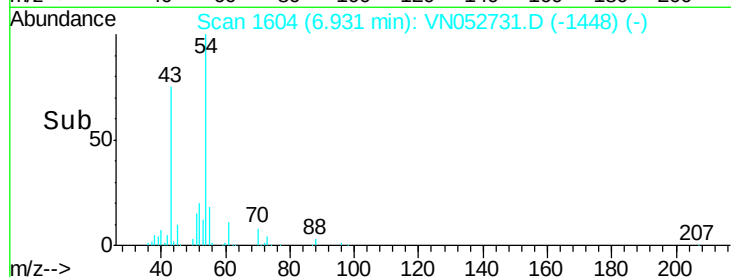
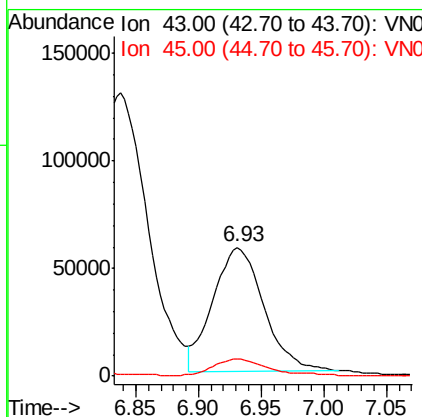
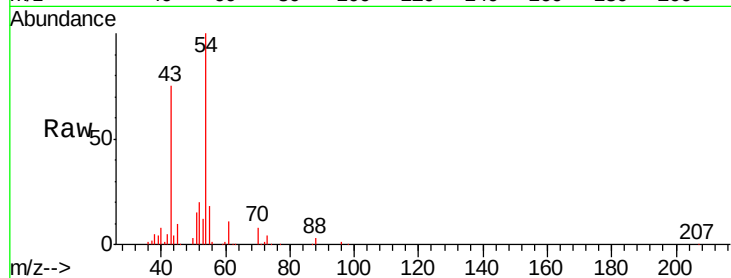
#43
Ethyl Acetate
Concen: 21.975 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion: 43 Resp: 162909
Ion Ratio Lower Upper
43 100
45 14.3 1.0 1.6#

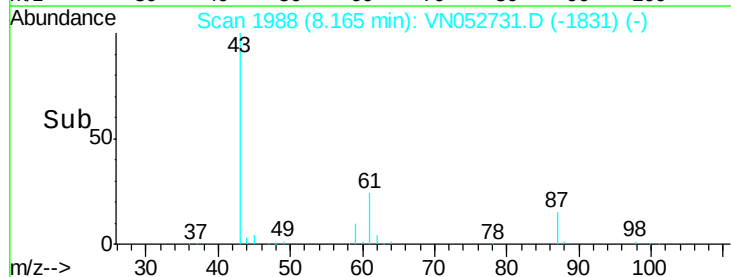
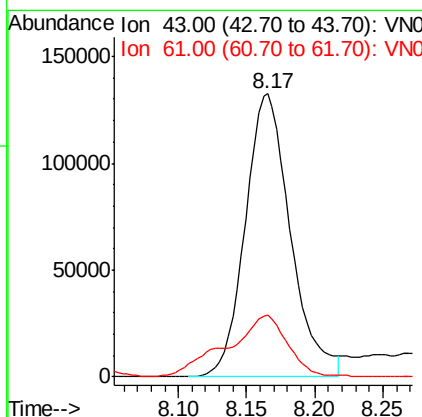
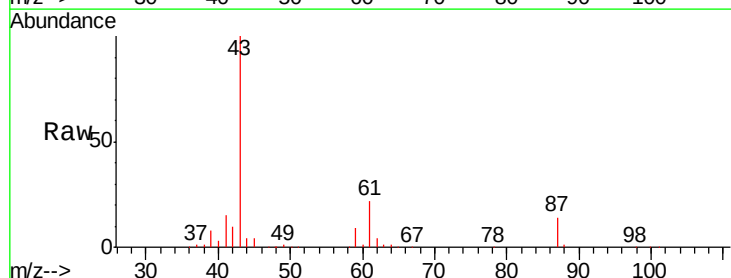
Manual Integrations
APPROVED

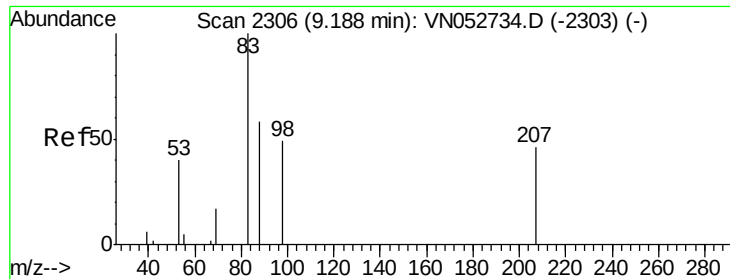
MMDadoda
12/10/2018 12:51:02 PM



#44
Isopropyl Acetate
Concen: 23.322 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion: 43 Resp: 303220
Ion Ratio Lower Upper
43 100
61 18.8 16.0 24.0





#45

1,4-Dioxane

Concen: 496.810 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

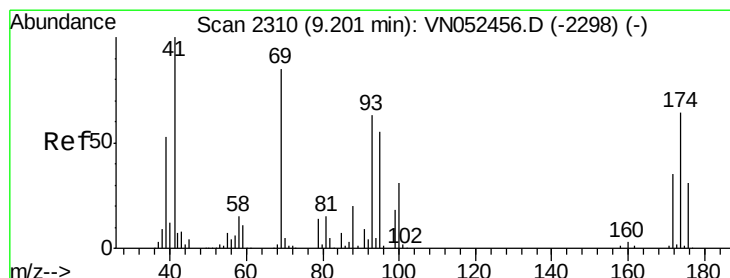
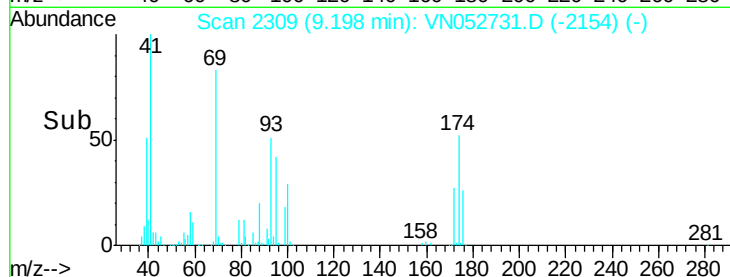
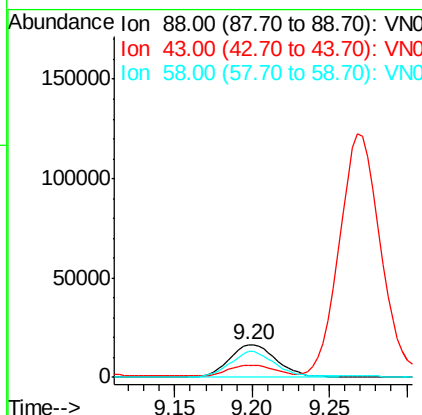
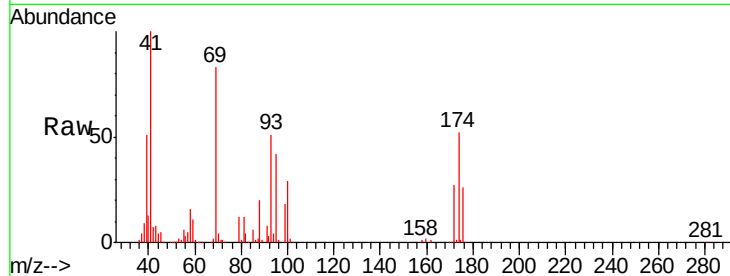
ClientSampleId :

VN1207WBSD01

Tgt Ion:	88	Resp:	35336
Ion	Ratio	Lower	Upper
88	100		
43	31.0	29.5	44.3
58	74.5	61.5	92.3

Manual Integrations
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#46

Methyl methacrylate

Concen: 22.154 ug/l

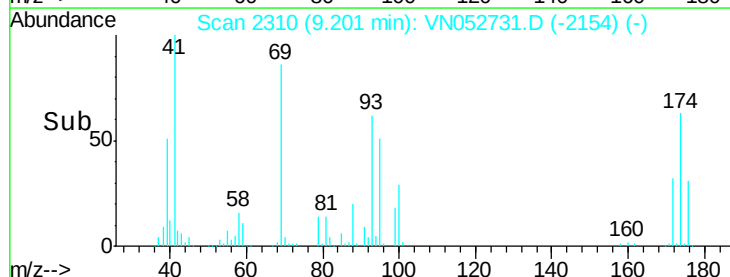
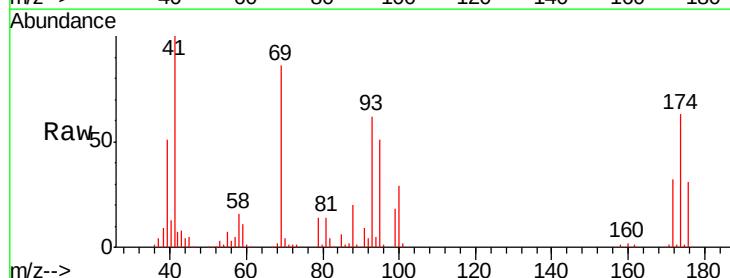
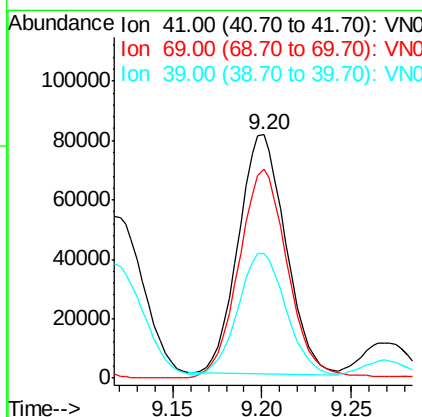
RT: 9.20 min Scan# 2310

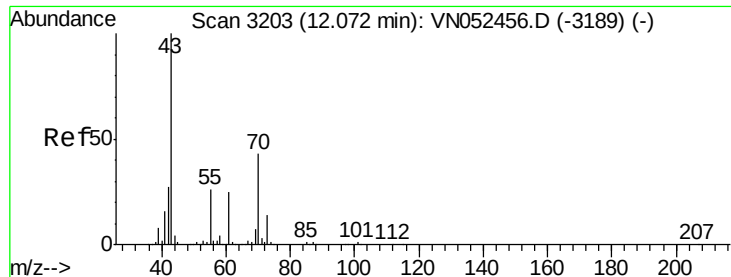
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	41	Resp:	149552
Ion	Ratio	Lower	Upper
41	100		
69	87.4	42.5	127.6
39	50.6	26.3	78.9





#47

n-amyl Acetate

Concen: 21.705 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 43 Resp: 233972

Ion Ratio Lower Upper

43 100

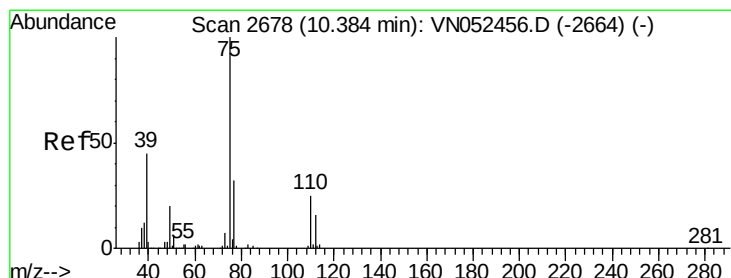
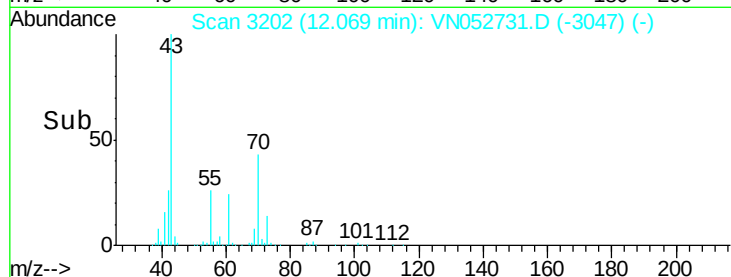
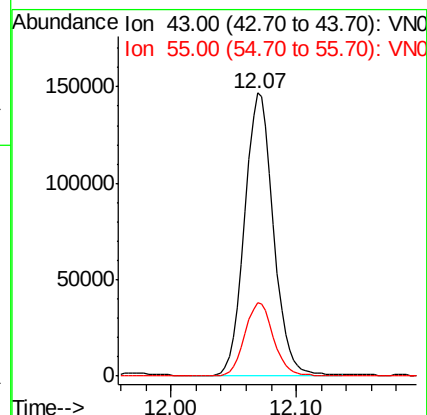
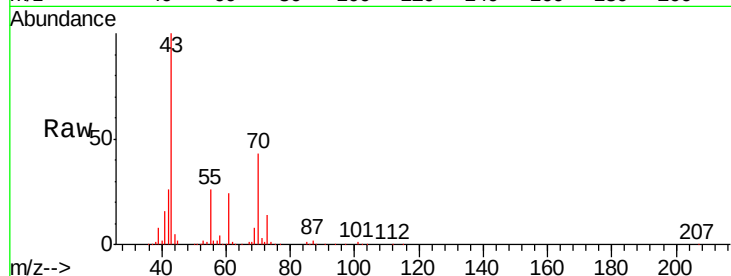
55 26.1 21.1 31.7

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 20.893 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052731.D

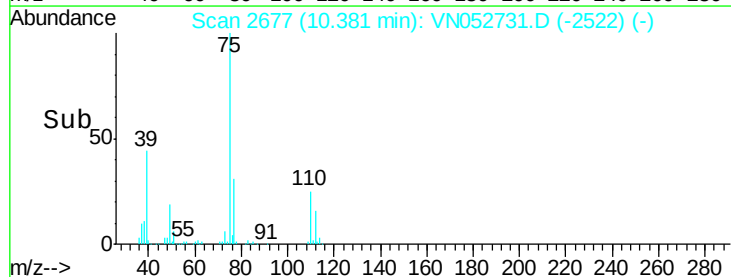
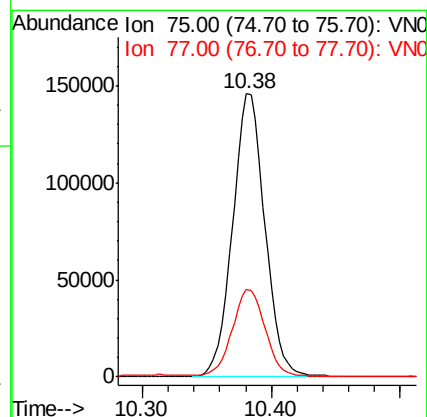
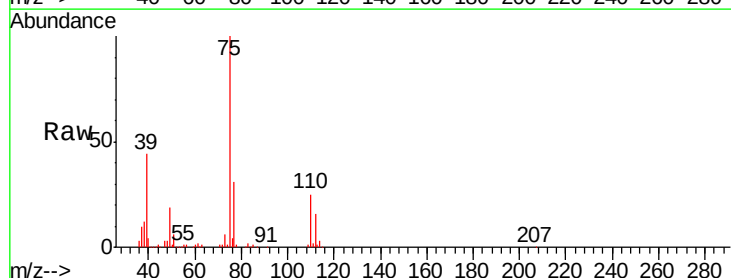
Acq: 7 Dec 2018 17:12

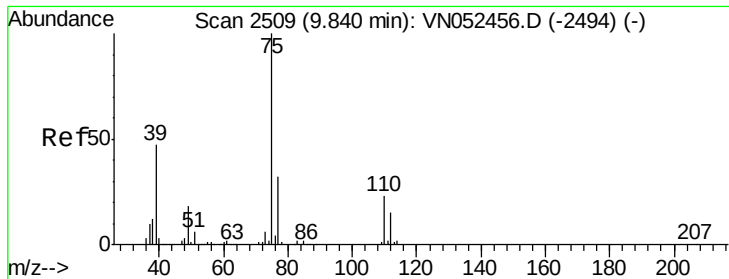
Tgt Ion: 75 Resp: 253972

Ion Ratio Lower Upper

75 100

77 30.6 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 20.466 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

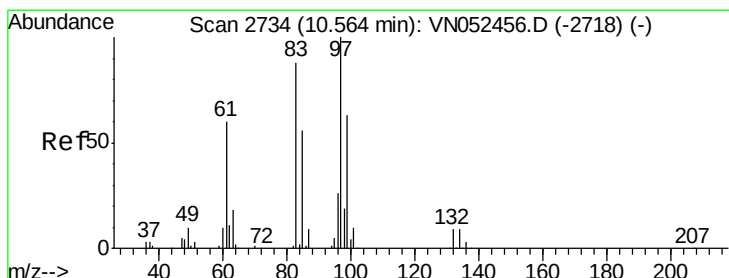
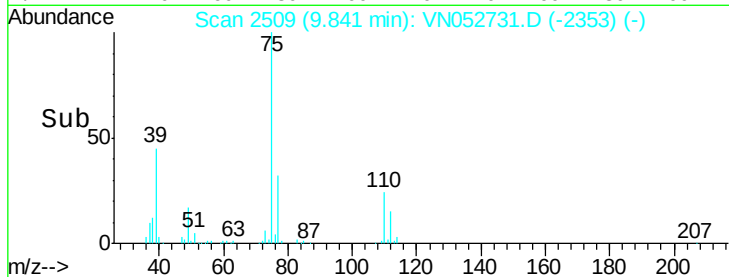
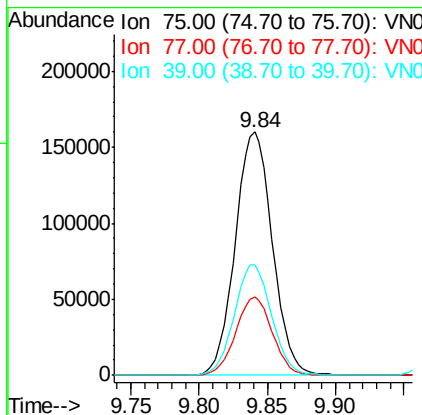
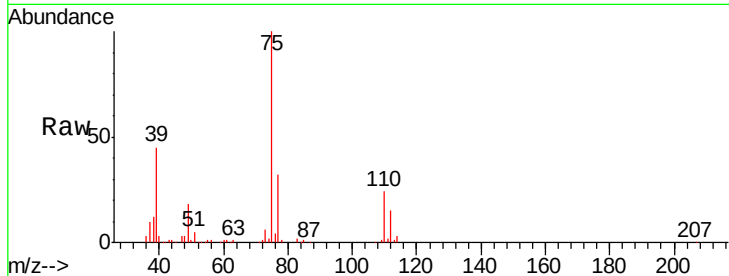
ClientSampleId :

VN1207WBSD01

Tgt Ion:	75	Resp:	303090
Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	45.2	37.3	55.9

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 22.041 ug/l

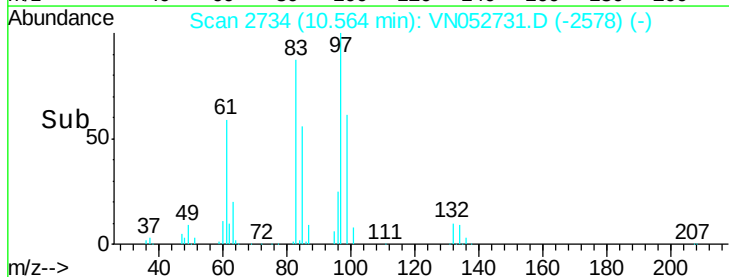
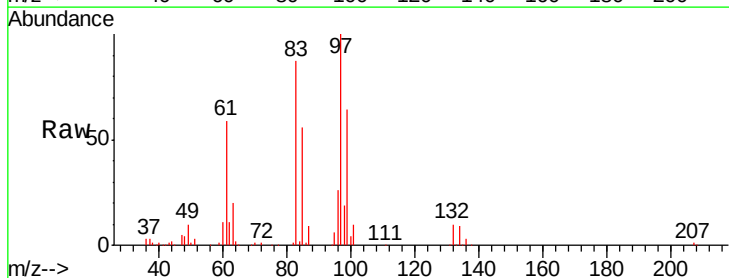
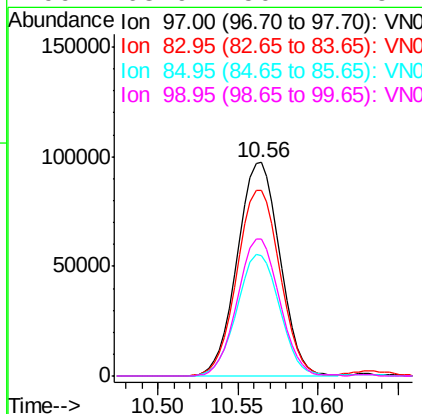
RT: 10.56 min Scan# 2734

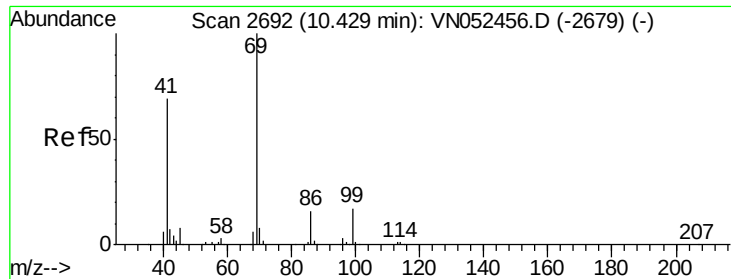
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	97	Resp:	177284
Ion	Ratio	Lower	Upper
97	100		
83	86.9	70.4	105.6
85	56.5	45.0	67.6
99	63.9	50.2	75.2





#51

Ethyl methacrylate

Concen: 22.263 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

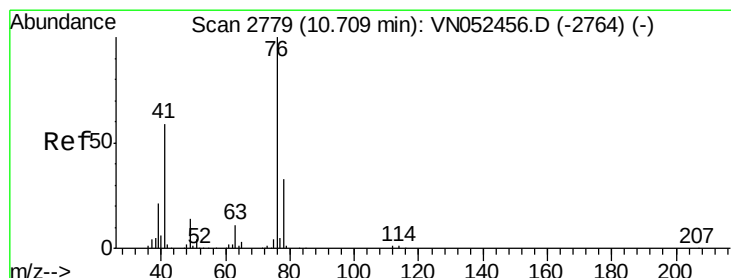
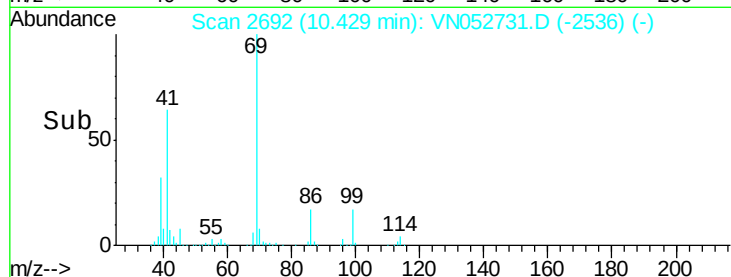
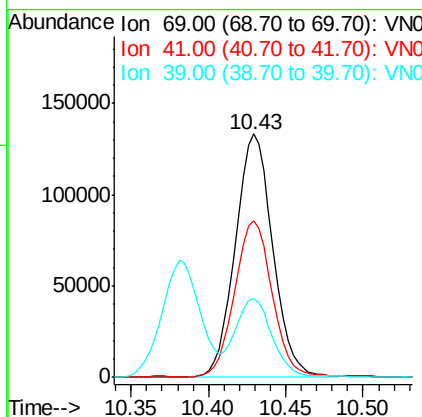
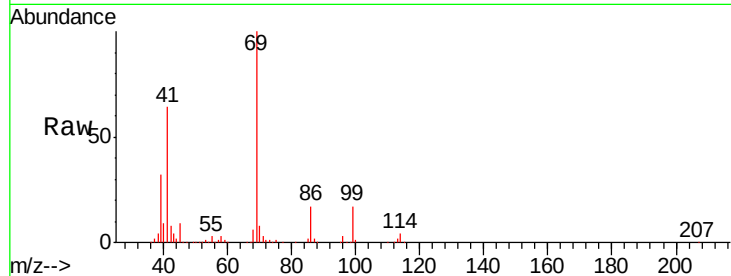
ClientSampleId :

VN1207WBSD01

Tgt Ion:	69	Resp:	224899
Ion	Ratio	Lower	Upper
69	100		
41	64.0	34.4	103.3
39	31.9	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 21.448 ug/l

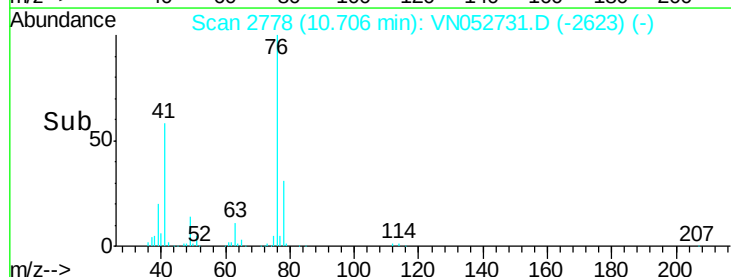
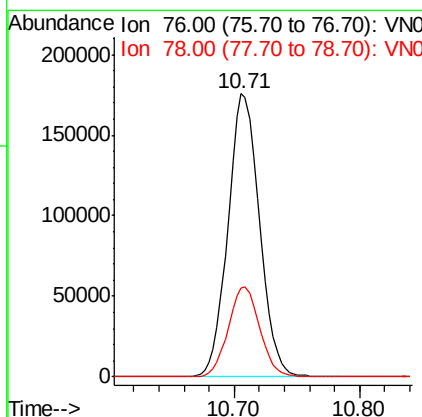
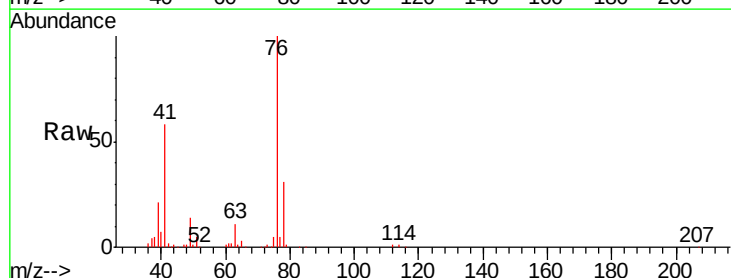
RT: 10.71 min Scan# 2778

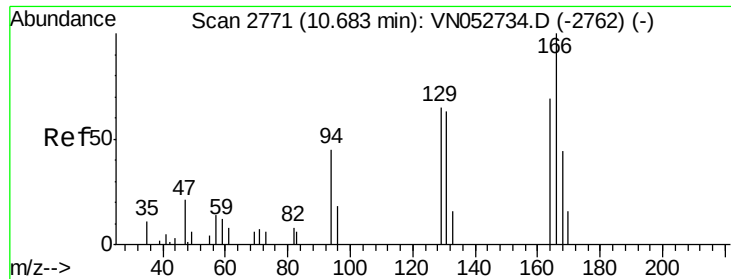
Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	76	Resp:	307061
Ion	Ratio	Lower	Upper
76	100		
78	31.6	0.0	64.8





#53

Dibromochloromethane

Concen: 21.548 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion:129 Resp: 190817

Ion Ratio Lower Upper

129 100

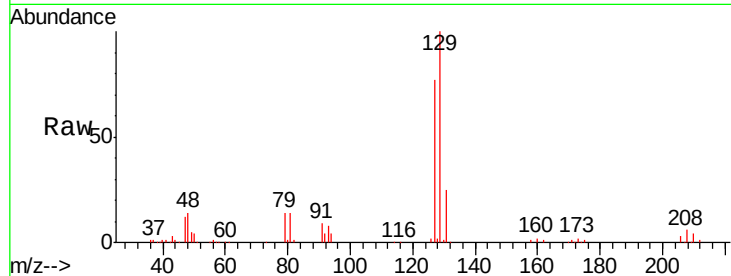
127 77.7 37.6 112.8

Manual Integrations

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

120000

100000

80000

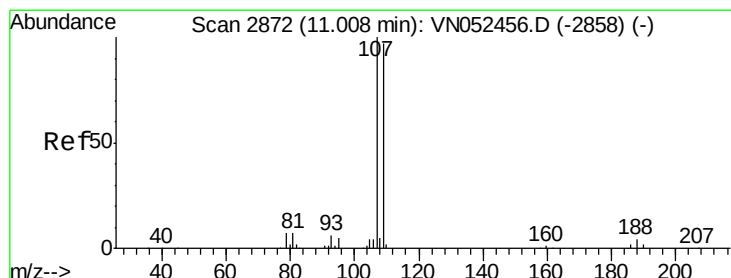
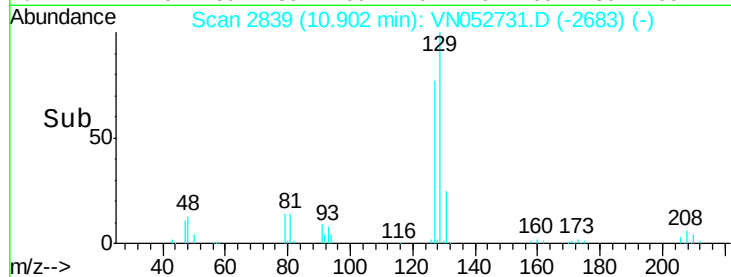
60000

40000

20000

0

Time-->



#54

1,2-Dibromoethane

Concen: 22.020 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052731.D

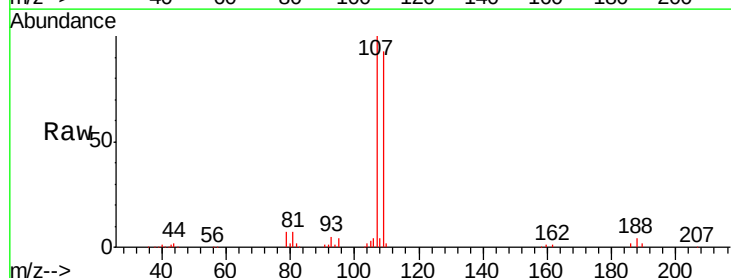
Acq: 7 Dec 2018 17:12

Tgt Ion:107 Resp: 173071

Ion Ratio Lower Upper

107 100

109 94.5 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

11.01

100000

80000

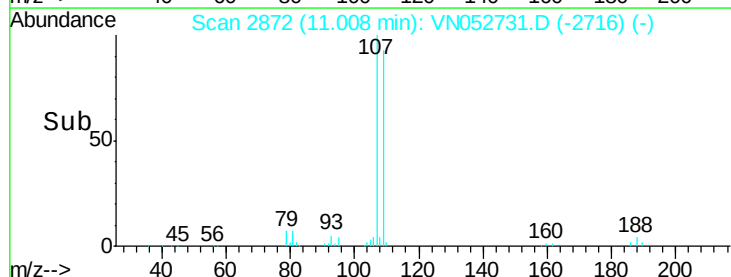
60000

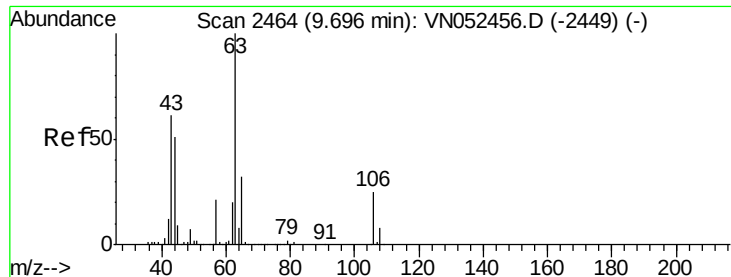
40000

20000

0

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 106.708 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

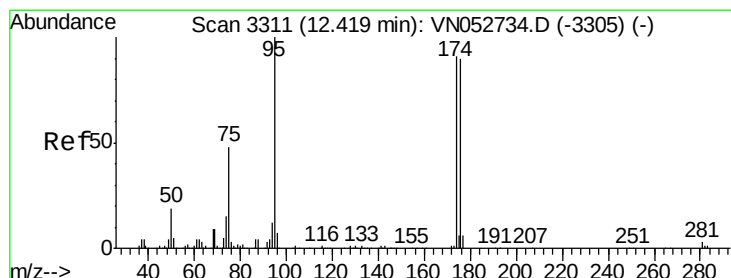
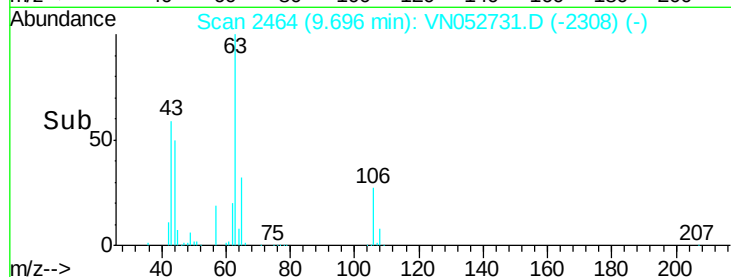
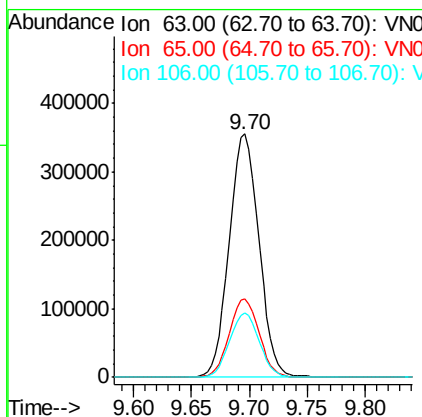
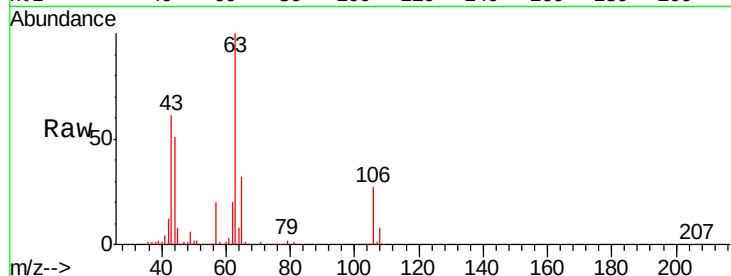
ClientSampleId :

VN1207WBSD01

Tgt Ion:	63	Resp:	630983
Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.4	38.2
106	26.5	20.4	30.6

Manual Integrations
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#56

Bromoform

Concen: 21.970 ug/l

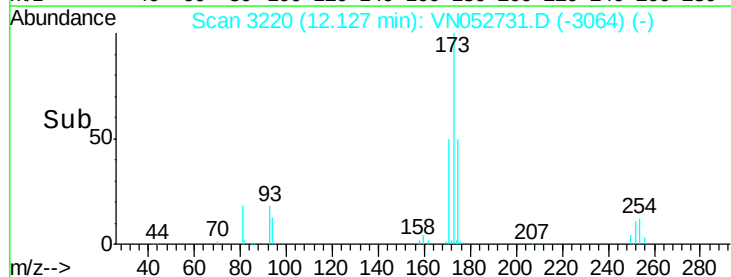
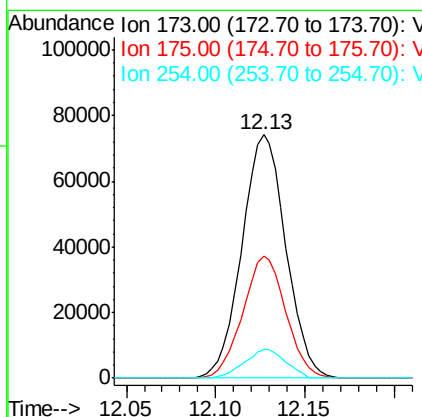
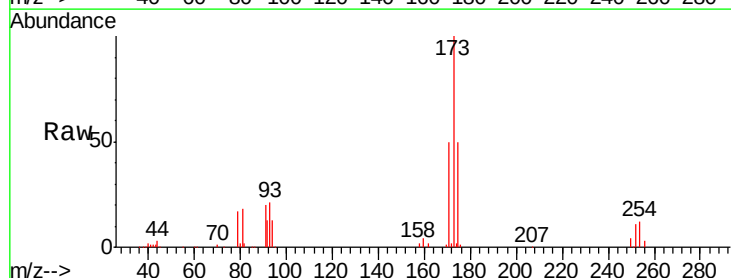
RT: 12.13 min Scan# 3220

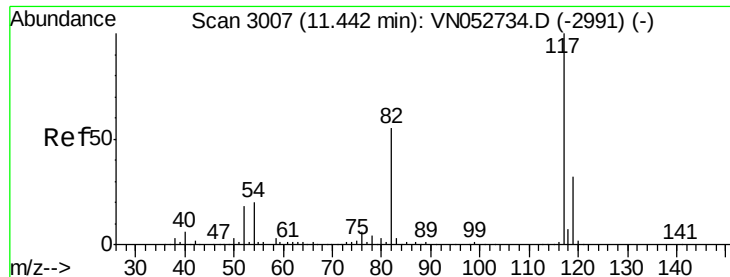
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	173	Resp:	127166
Ion	Ratio	Lower	Upper
173	100		
175	49.2	38.7	58.1
254	11.2	8.4	12.6





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

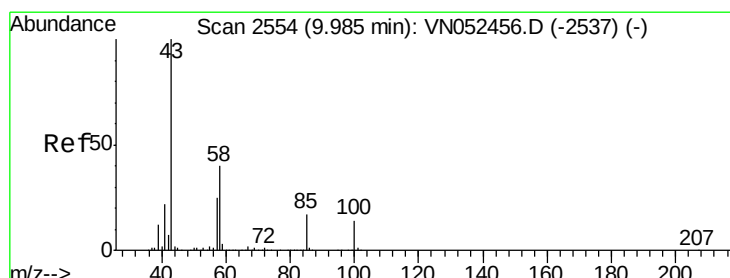
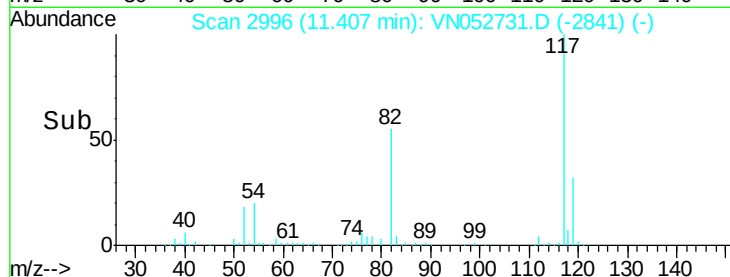
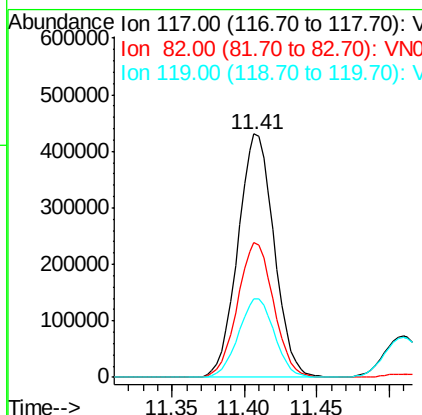
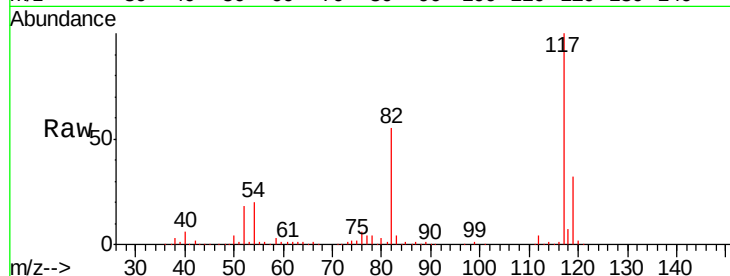
ClientSampleId :

VN1207WBSD01

Tgt Ion:	117	Resp:	746146
Ion Ratio		Lower	Upper
117	100		
82	55.3	44.2	66.2
119	32.3	25.4	38.2

Manual Integrations
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#58

4-Methyl-2-Pentanone

Concen: 117.440 ug/l

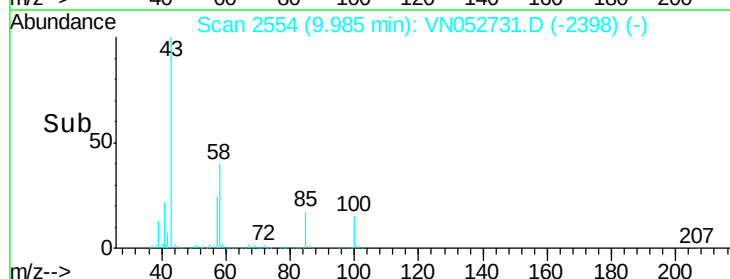
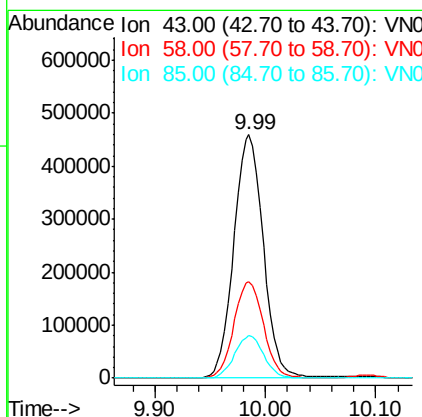
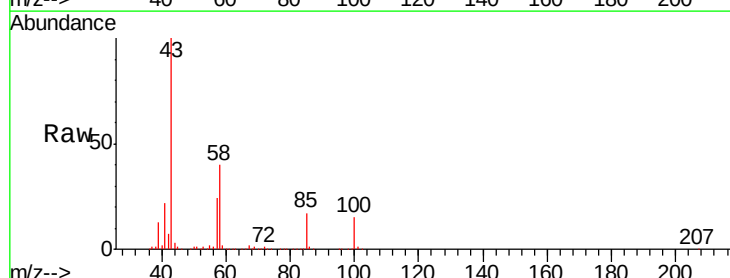
RT: 9.99 min Scan# 2554

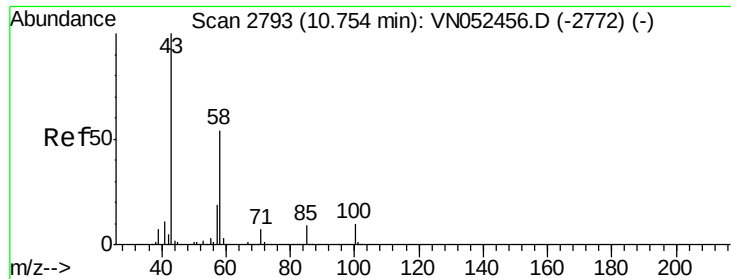
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	43	Resp:	849523
Ion Ratio		Lower	Upper
43	100		
58	39.9	31.6	47.4
85	17.2	13.3	19.9





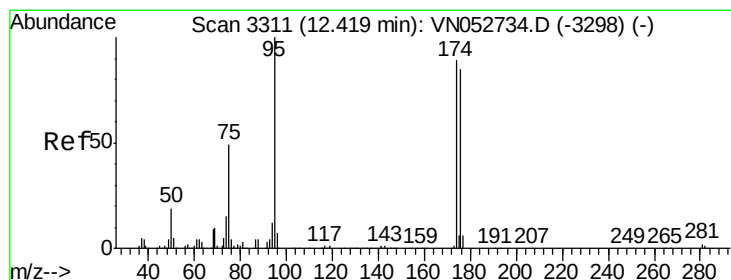
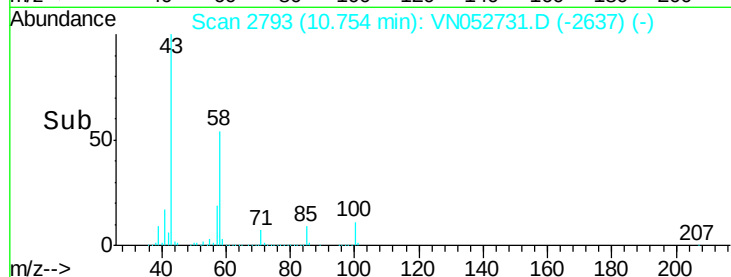
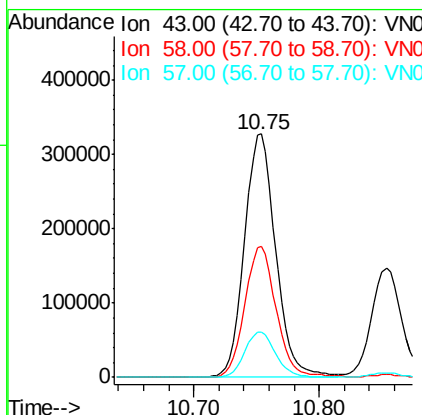
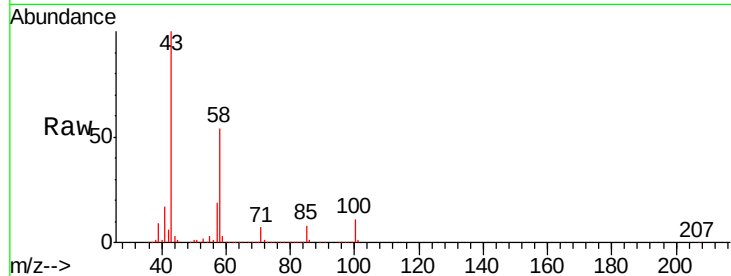
#59
2-Hexanone
Concen: 114.217 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.3	43.2	64.8
57	18.6	14.9	22.3

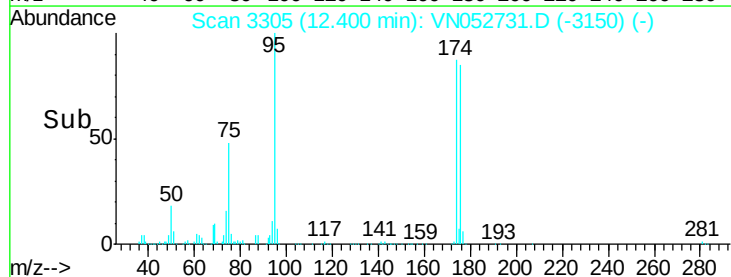
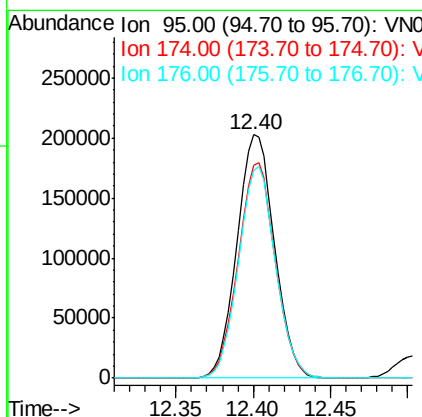
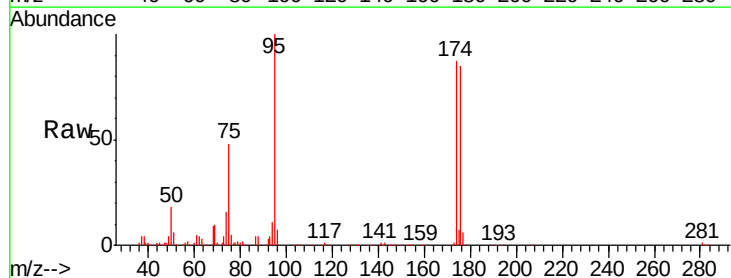
Manual Integrations
APPROVED

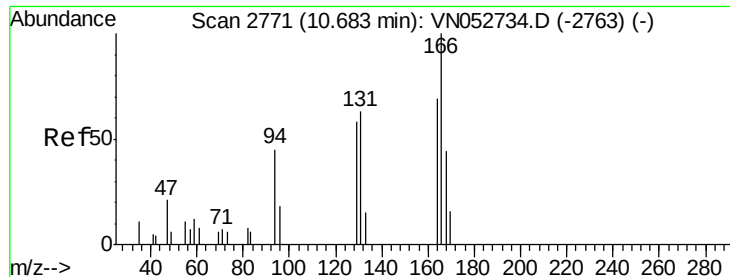
MMDadoda
12/10/2018 12:51:02 PM



#60
4-Bromofluorobenzene
Concen: 114.217 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.6	67.9	101.9
176	85.5	66.4	99.6





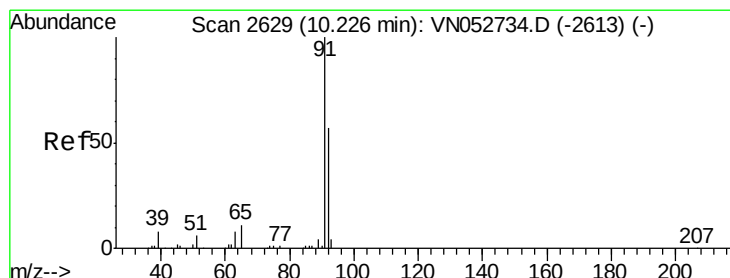
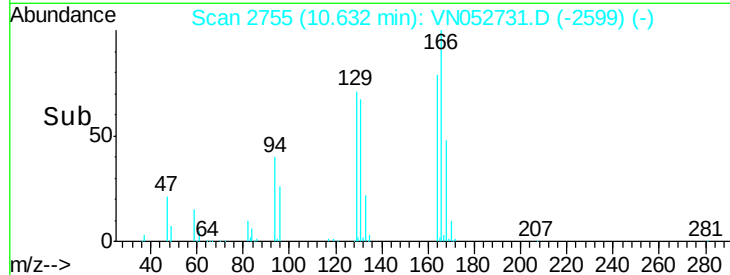
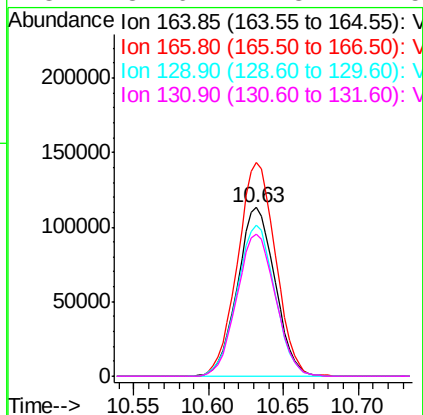
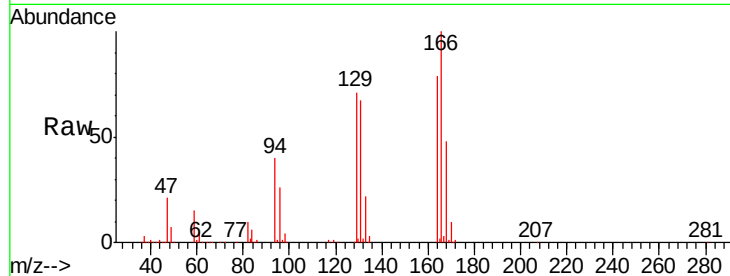
#61
Tetrachloroethene
Concen: 21.533 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	104.6	157.0
129	89.6	75.3	112.9
131	84.6	74.3	111.5

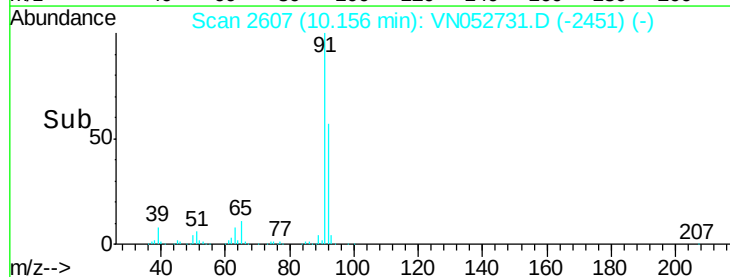
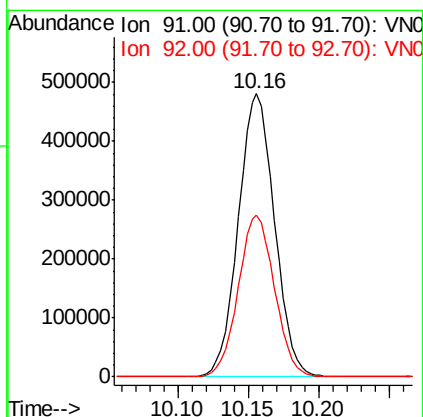
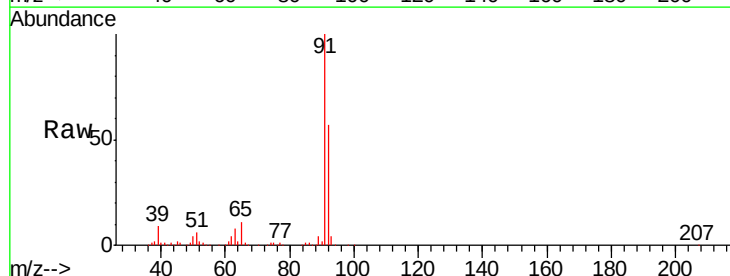
Manual Integrations
APPROVED

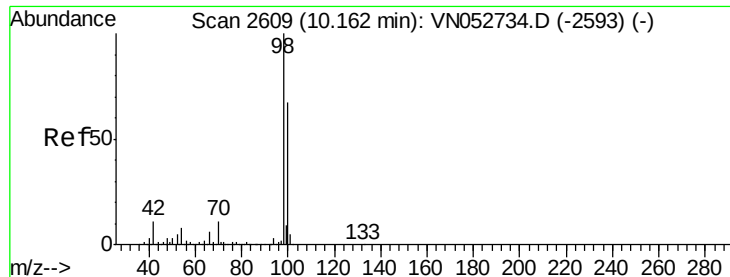
MMDadoda
12/10/2018 12:51:02 PM



#62
Toluene
Concen: 21.052 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	45.4	68.2





#63

Toluene-d8

Concen: 21.052 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 98 Resp: 1039250

Ion Ratio Lower Upper

98 100

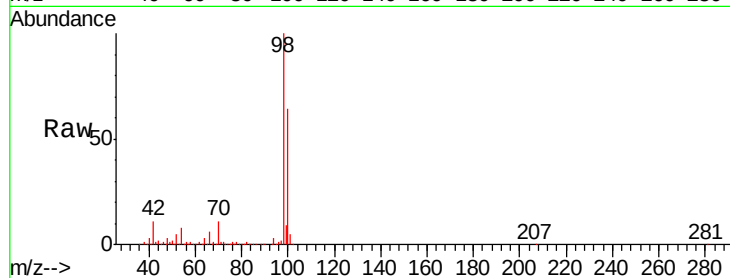
100 64.1 51.1 76.7

Manual Integrations

APPROVED

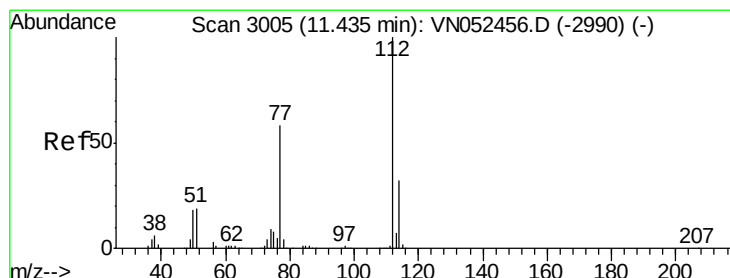
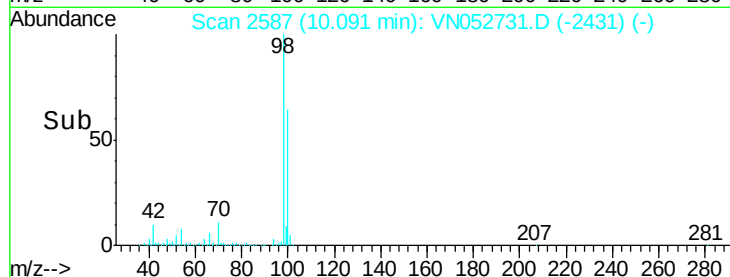
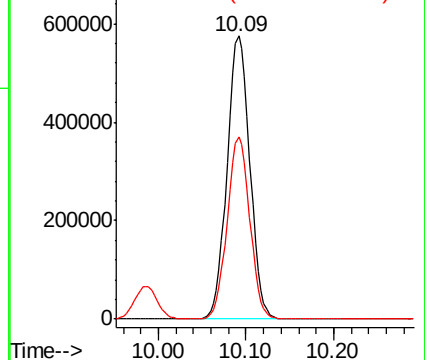
MMDadoda

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Abundance Ion 98.00 (97.70 to 98.70): VN052731.D (-2593) (-)

Ion 100.00 (99.70 to 100.70): VN052731.D (-2593) (-)



#64

Chlorobenzene

Concen: 21.261 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052731.D

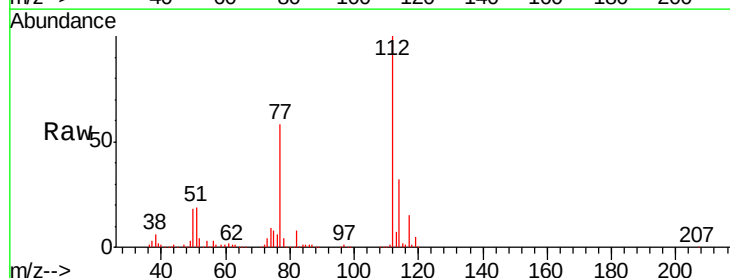
Acq: 7 Dec 2018 17:12

Tgt Ion: 112 Resp: 533779

Ion Ratio Lower Upper

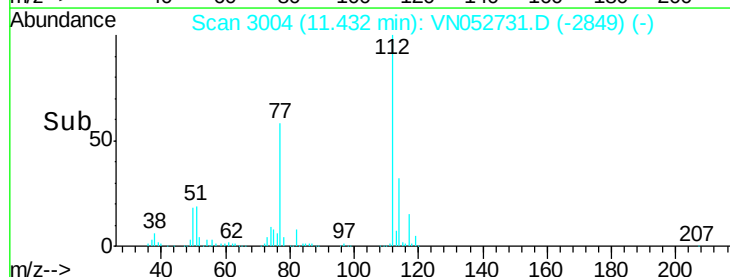
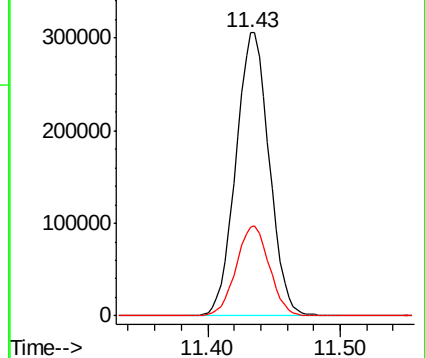
112 100

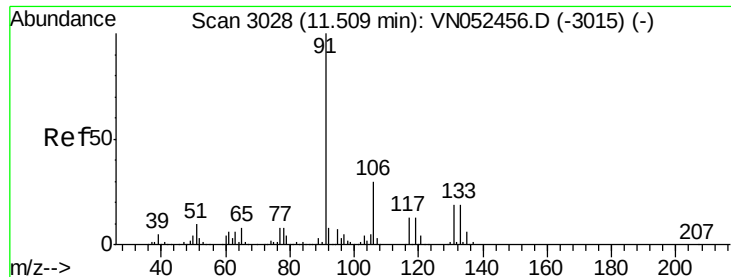
114 31.6 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN052731.D (-2849) (-)

Ion 114.00 (113.70 to 114.70): VN052731.D (-2849) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 21.916 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

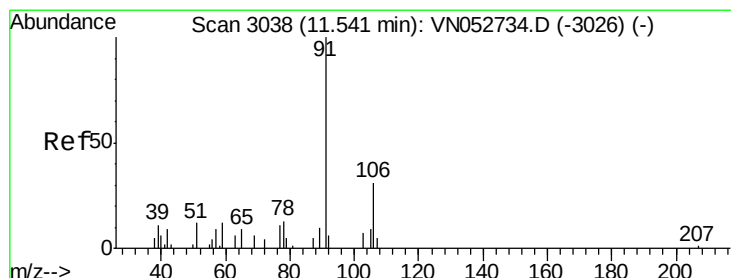
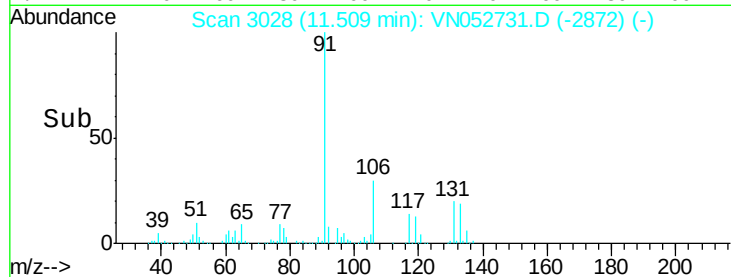
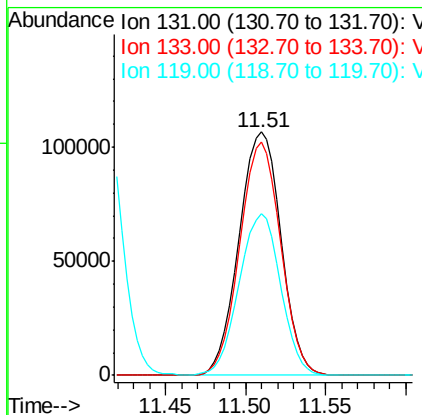
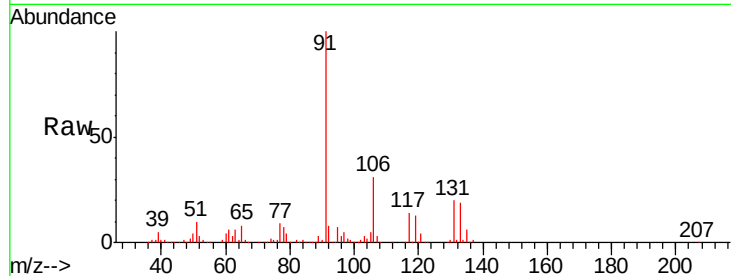
ClientSampleId :

VN1207WBSD01

Tgt Ion:	131	Resp:	190989
Ion Ratio		Lower	Upper
131	100		
133	93.5	0.0	193.4
119	65.7	0.0	133.0

Manual Integrations
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#66

Ethyl Benzene

Concen: 20.745 ug/l

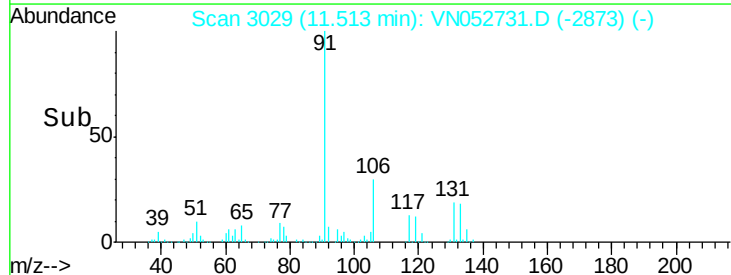
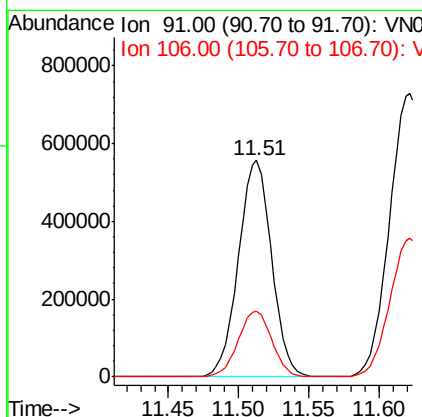
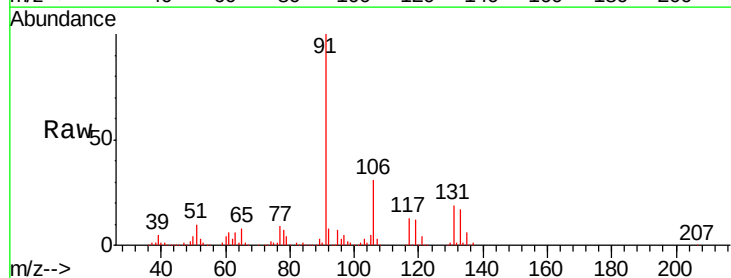
RT: 11.51 min Scan# 3029

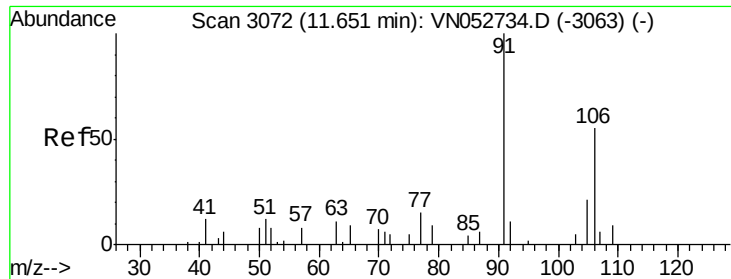
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	91	Resp:	919657
Ion Ratio		Lower	Upper
91	100		
106	30.6	24.3	36.5





#67

m/p-Xylenes

Concen: 41.733 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion:106 Resp: 689272

Ion Ratio Lower Upper

106 100

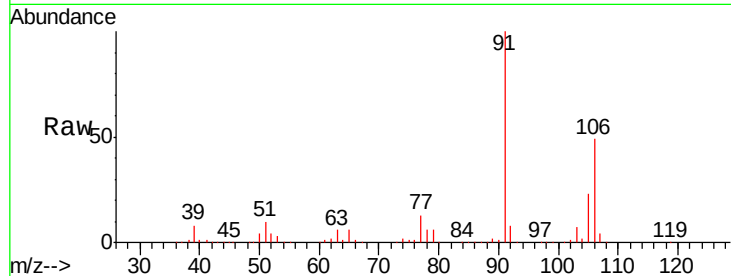
91 205.3 163.9 245.9

Manual Integrations

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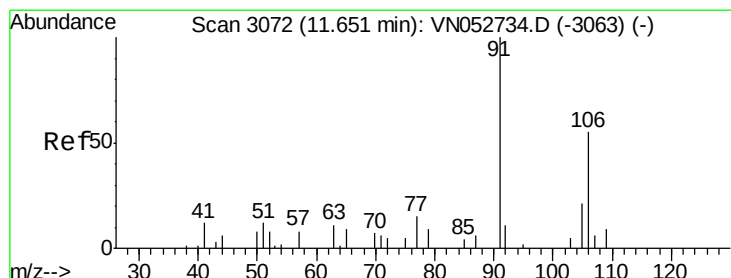
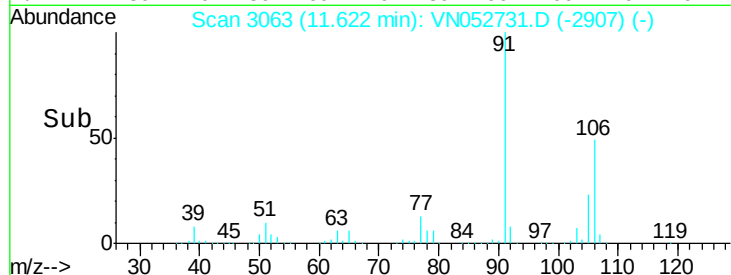
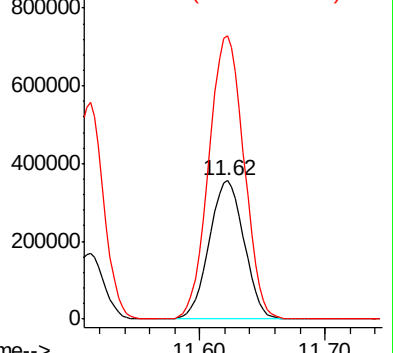
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 21.354 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN052731.D

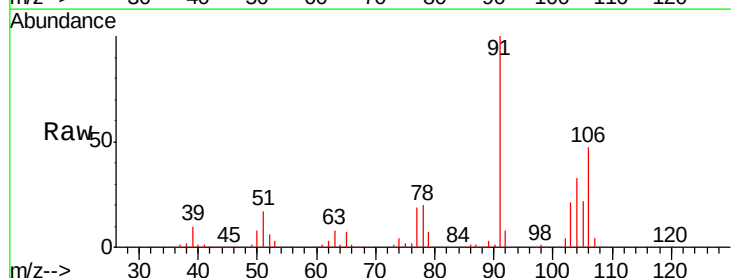
Acq: 7 Dec 2018 17:12

Tgt Ion:106 Resp: 342306

Ion Ratio Lower Upper

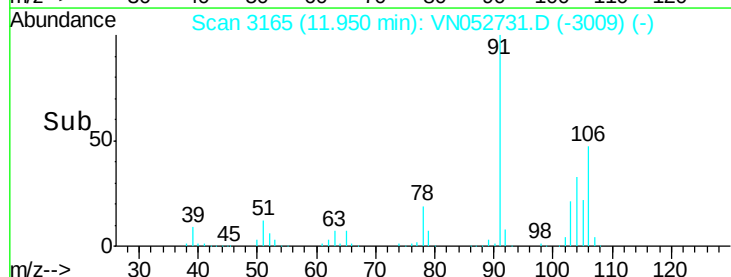
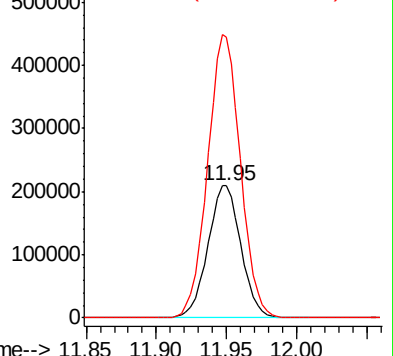
106 100

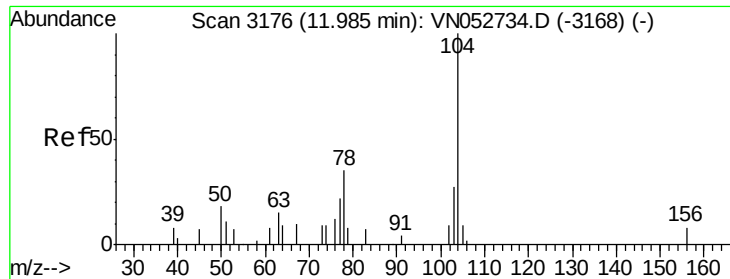
91 212.9 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





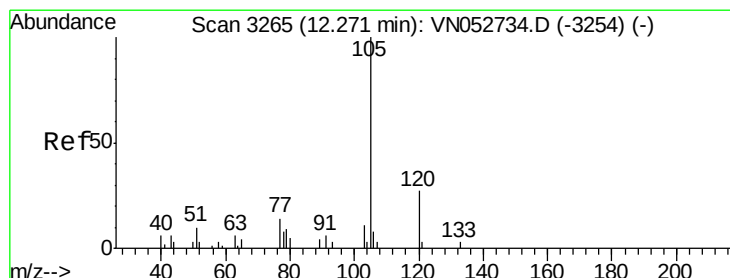
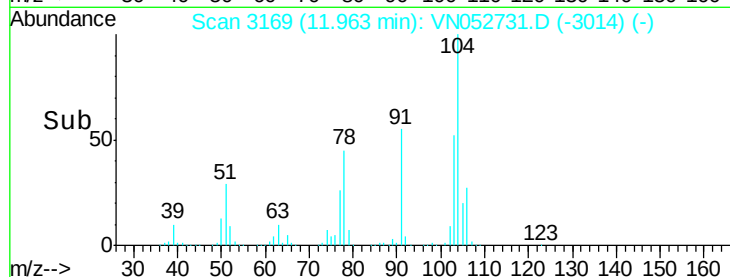
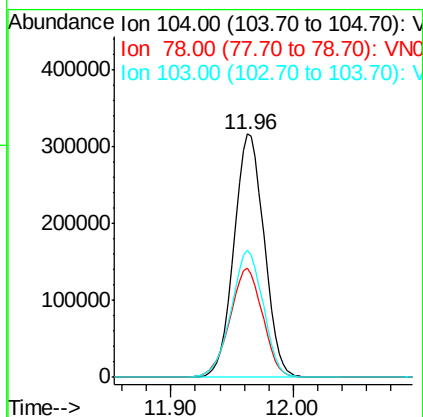
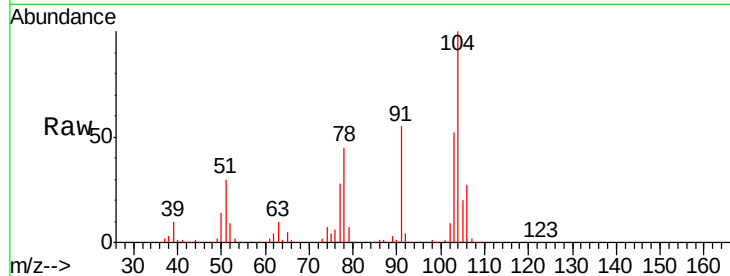
#69
Styrene
 Concen: 20.995 ug/l
 RT: 11.96 min Scan# 3169
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.3	58.9
103	55.4	44.6	66.8

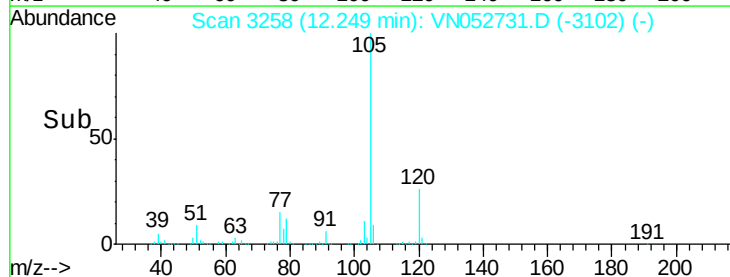
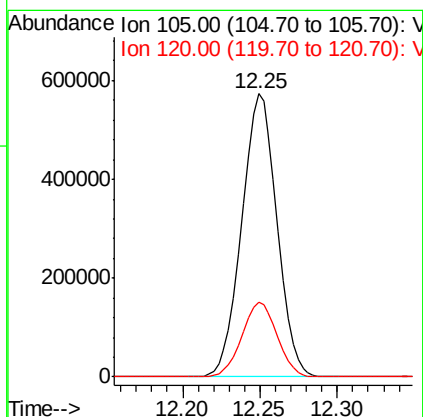
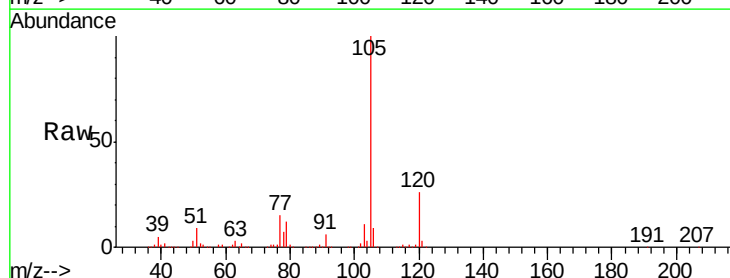
Manual Integrations
 APPROVED

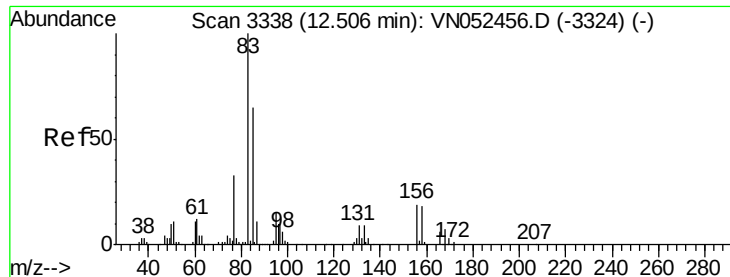
MMDadoda
 12/10/2018 12:51:02 PM



#70
Isopropylbenzene
 Concen: 21.261 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	18.6	34.6





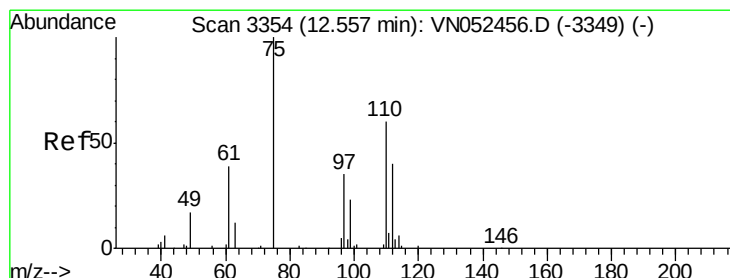
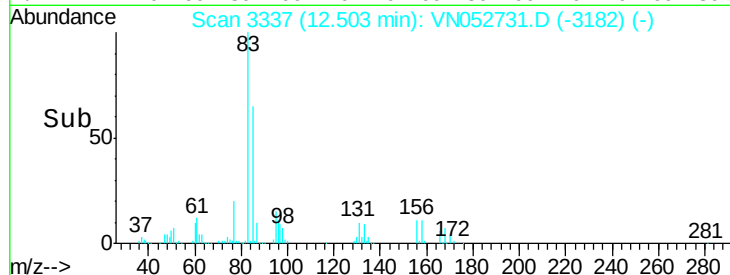
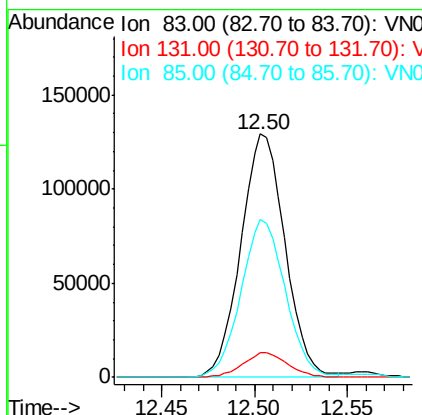
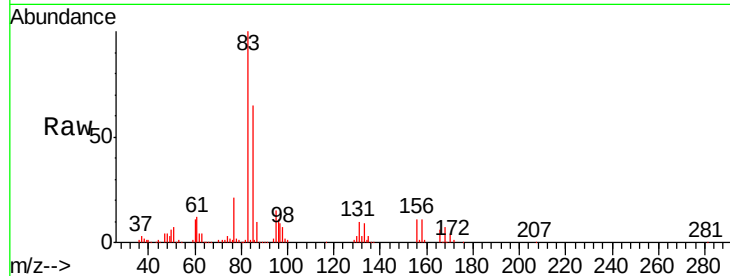
#71
 1,1,2,2-Tetrachloroethane
 Concen: 23.124 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.9	14.6
85	65.2	32.2	96.6

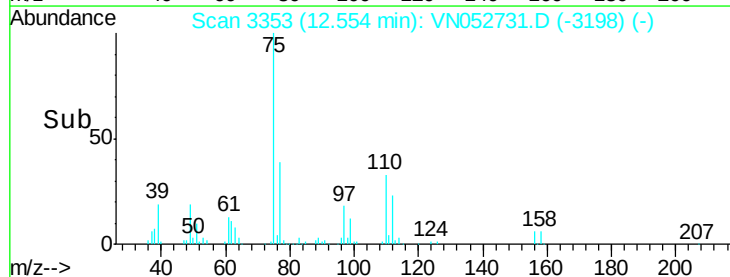
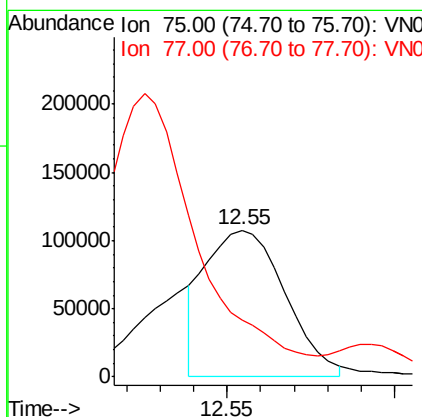
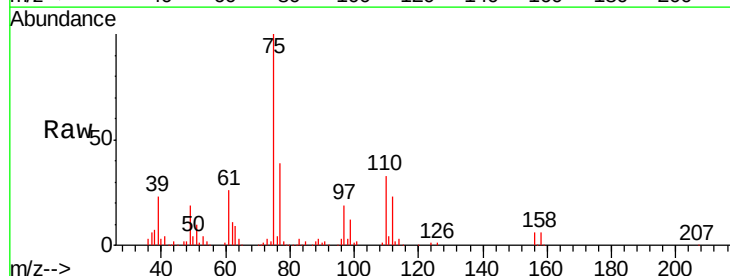
Manual Integrations
 APPROVED

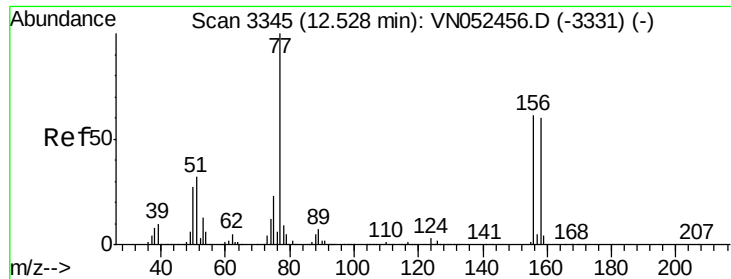
MMDadoda
 12/10/2018 12:51:02 PM



#72
 1,2,3-Trichloropropane
 Concen: 22.380 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	231.9	0.0	514.8





#73

Bromobenzene

Concen: 21.654 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

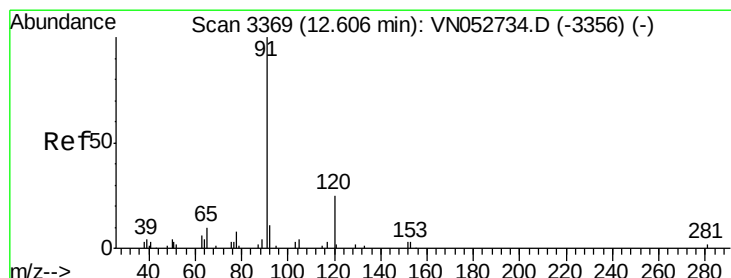
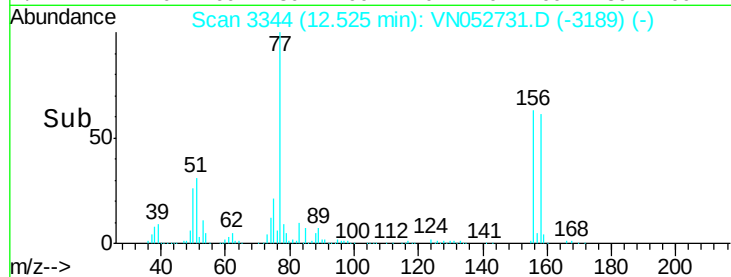
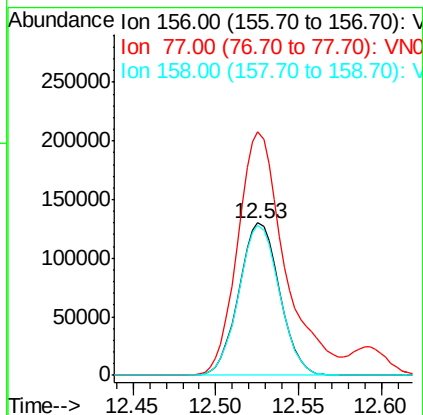
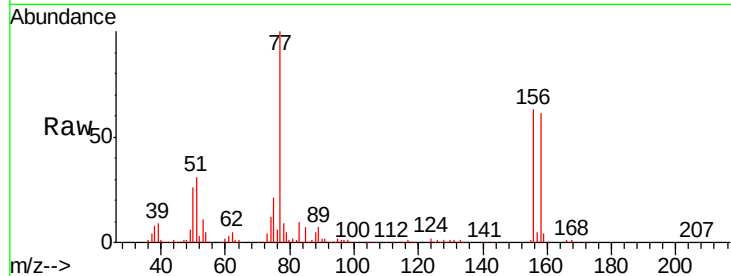
ClientSampleId :

VN1207WBSD01

Tgt Ion:	156	Resp:	223379
Ion Ratio	Lower	Upper	
156	100		
77	185.0	0.0	382.6
158	97.8	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 20.511 ug/l

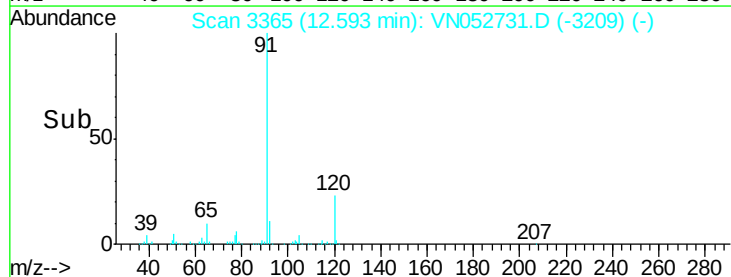
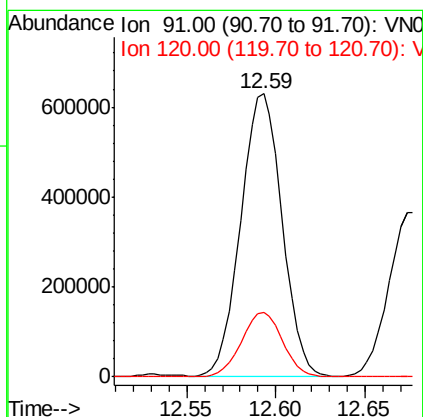
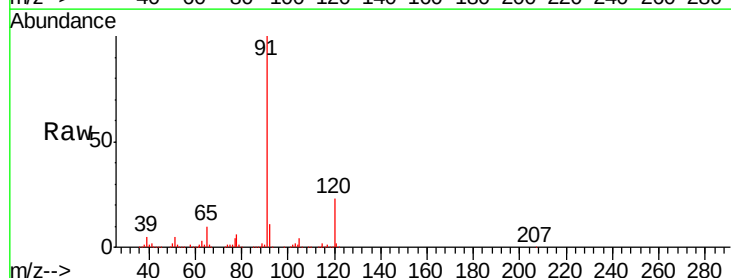
RT: 12.59 min Scan# 3365

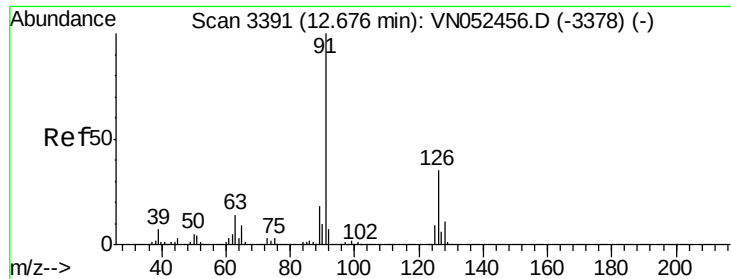
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	91	Resp:	1019289
Ion Ratio	Lower	Upper	
91	100		
120	22.6	0.0	44.6





#75

2-Chlorotoluene

Concen: 21.106 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

ClientSampleId :

VN1207WBSD01

Tgt Ion: 91 Resp: 608815

Ion Ratio Lower Upper

91 100

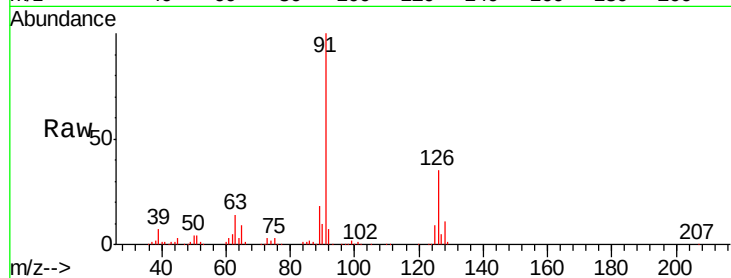
126 34.7 0.0 68.4

Manual Integrations

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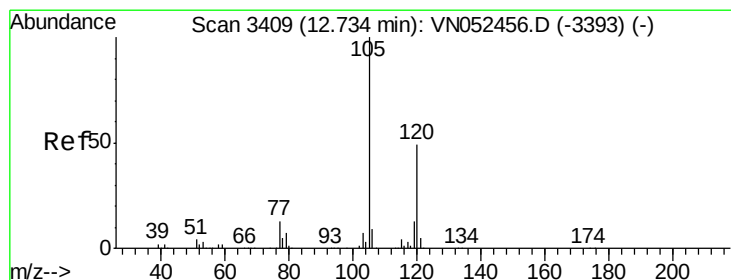
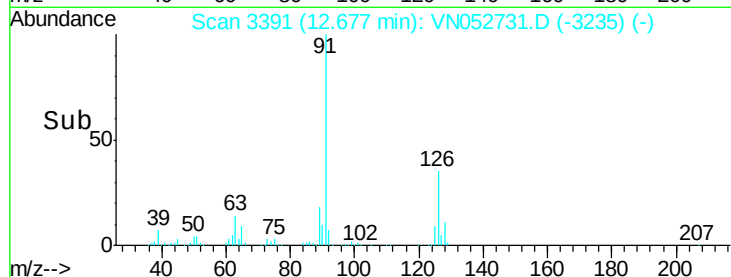
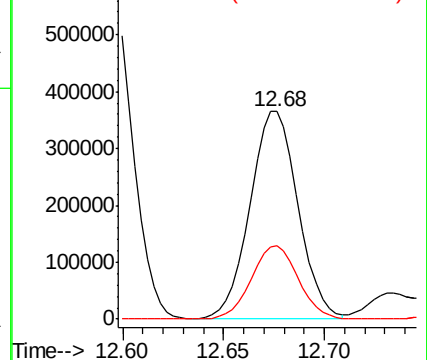
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Abundance Ion 91.00 (90.70 to 91.70): VN052731.D (-3235) (-)

Ion 126.00 (125.70 to 126.70): VN052731.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 21.280 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052731.D

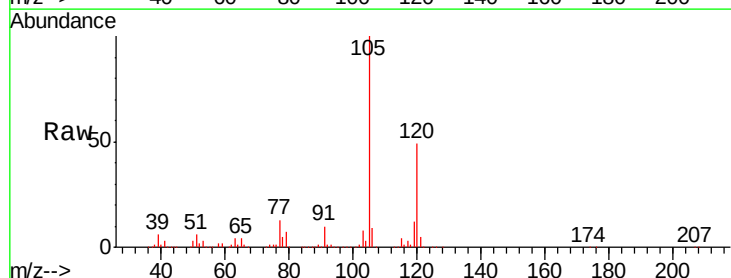
Acq: 7 Dec 2018 17:12

Tgt Ion: 105 Resp: 733103

Ion Ratio Lower Upper

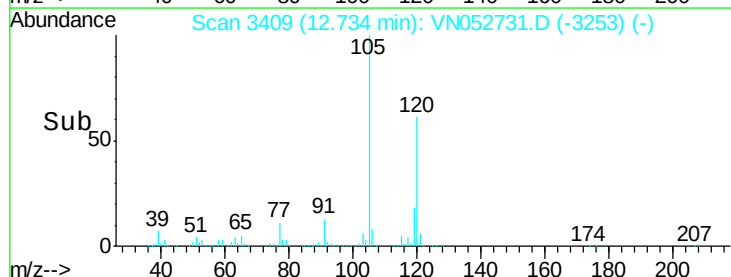
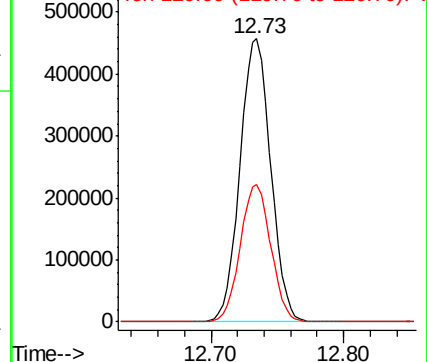
105 100

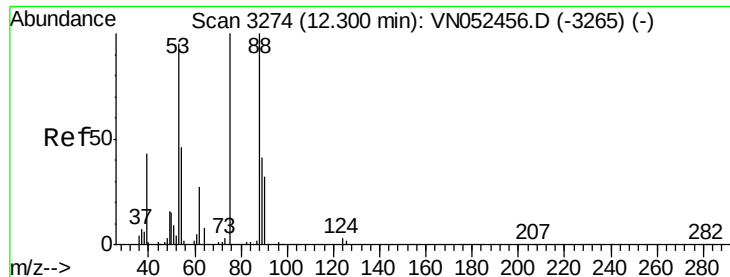
120 48.4 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052731.D (-3253) (-)

Ion 120.00 (119.70 to 120.70): VN052731.D (-3253) (-)





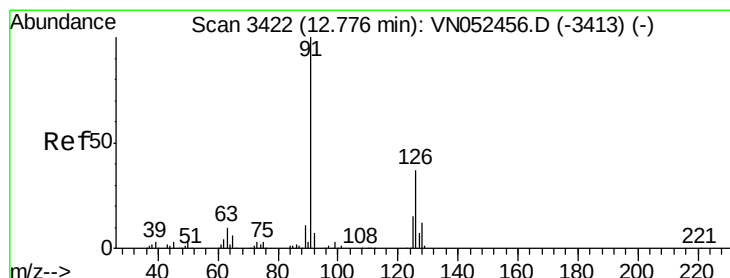
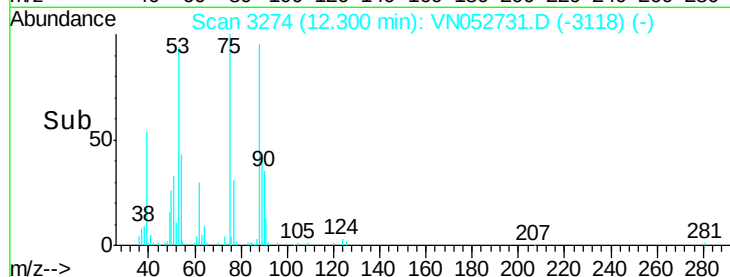
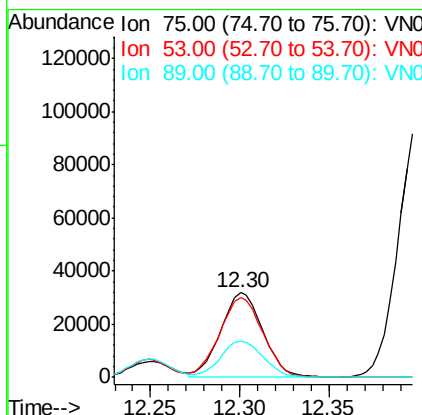
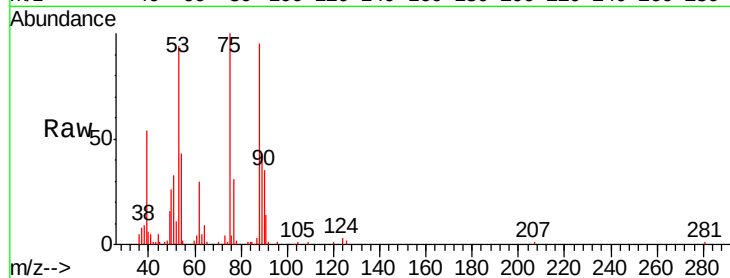
#77
t-1,4-Dichloro-2-butene
Concen: 20.789 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	93.5	48.5	145.6
89	42.9	21.7	65.1

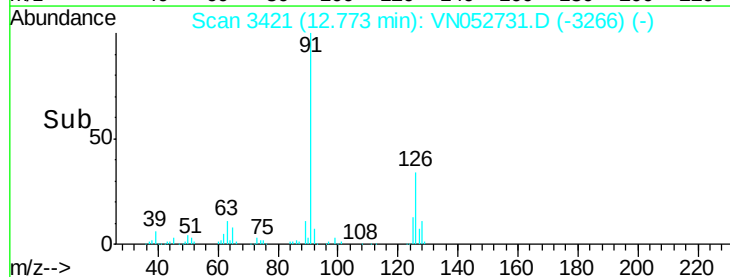
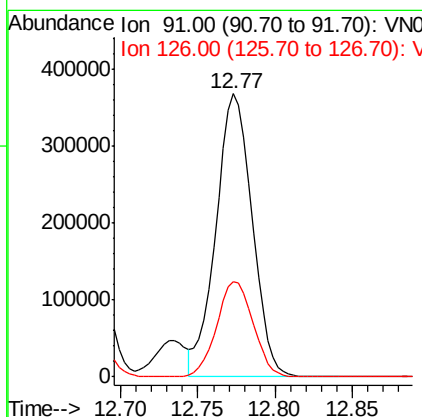
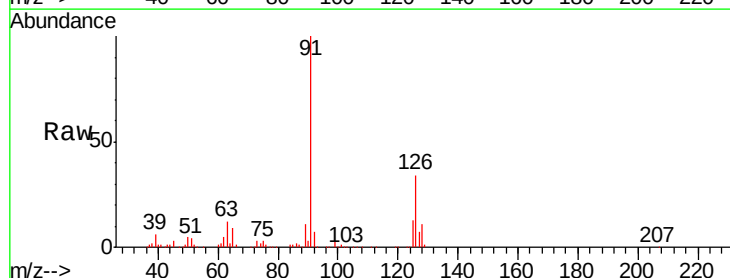
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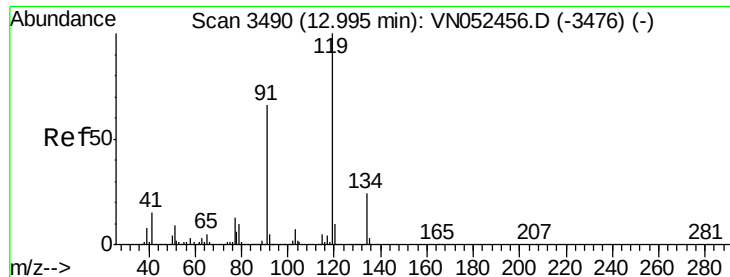
MMDadoda
12/10/2018 12:51:02 PM



#78
4-Chlorotoluene
Concen: 20.768 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.0	0.0	68.2





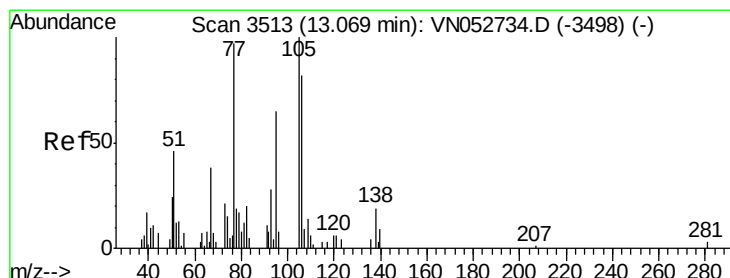
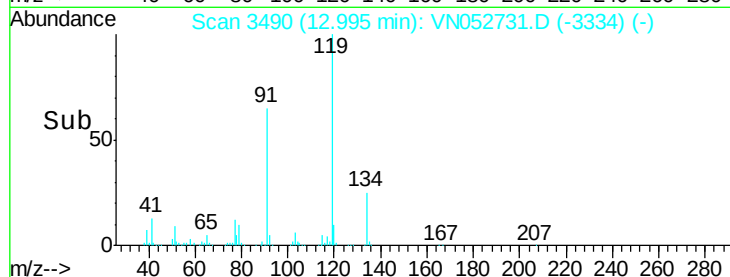
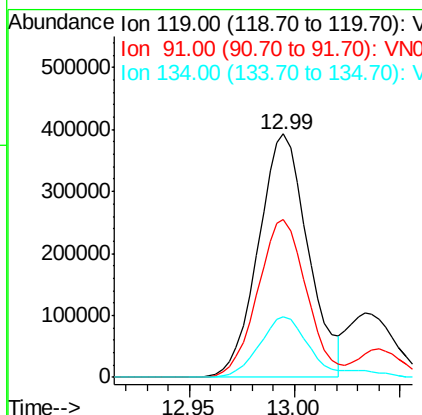
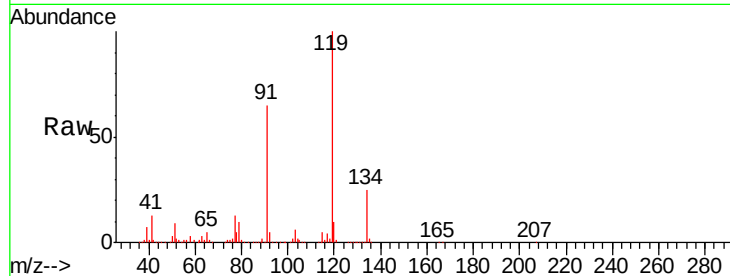
#79
tert-butylbenzene
Concen: 21.510 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	645354		
91	63.9	0.0	129.8	
134	24.1	0.0	52.2	

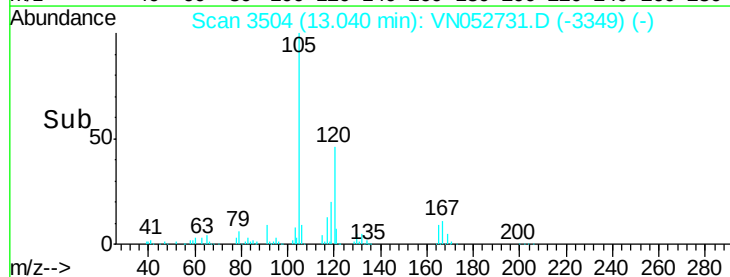
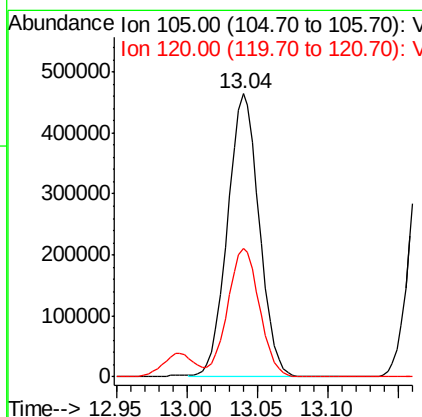
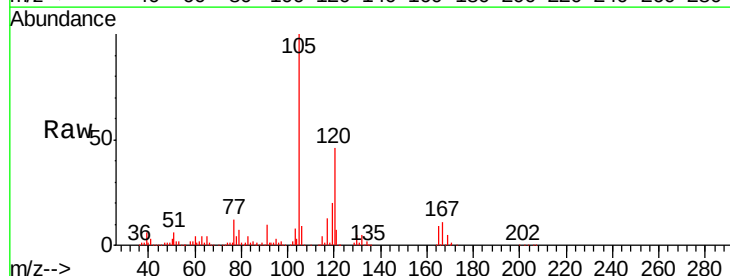
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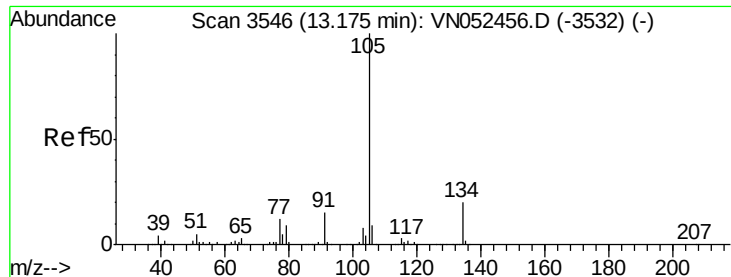
MMDadoda
12/10/2018 12:51:02 PM



#80
1,2,4-Trimethylbenzene
Concen: 21.102 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	727423		
120	45.9	0.0	91.0	





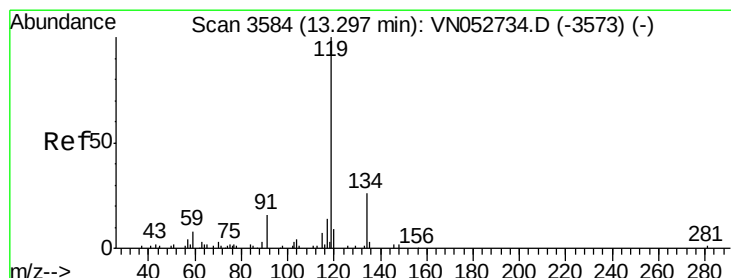
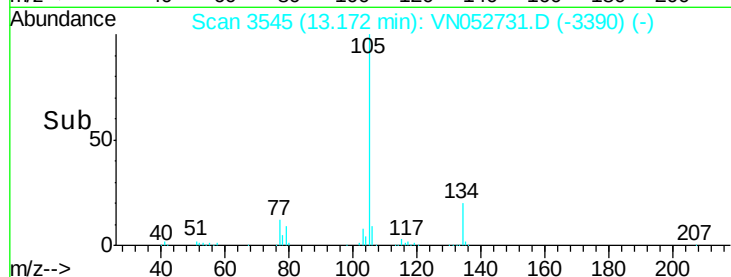
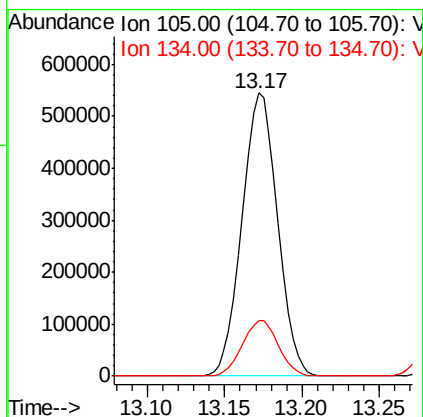
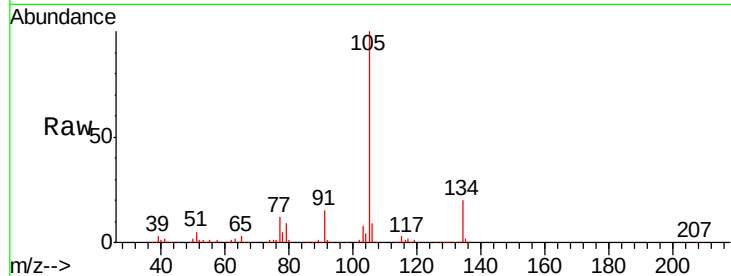
#81
 sec-Butylbenzene
 Concen: 20.864 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.9	0.0	40.4

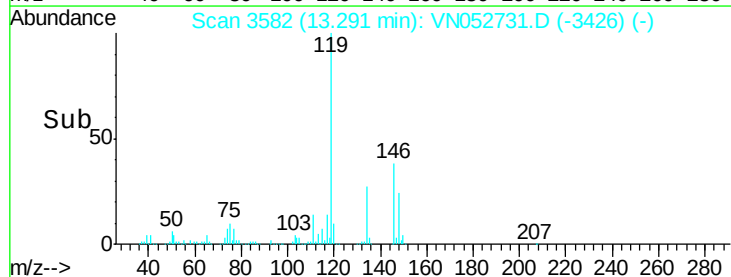
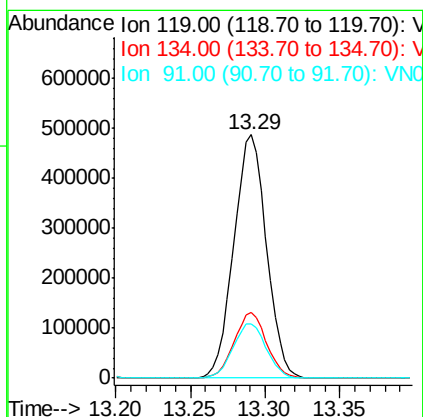
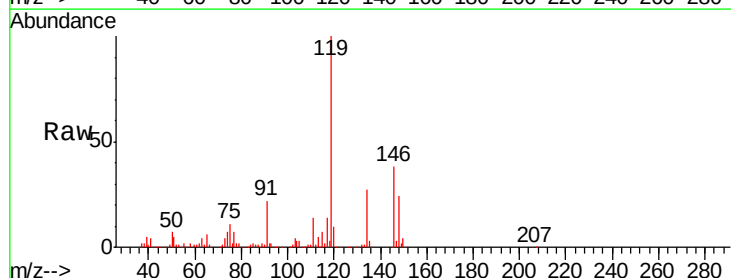
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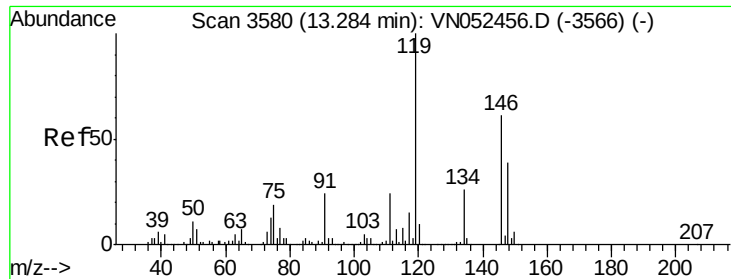
MMDadoda
 12/10/2018 12:51:02 PM



#82
 p-Isopropyltoluene
 Concen: 20.803 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	52.6
91	22.8	0.0	46.2





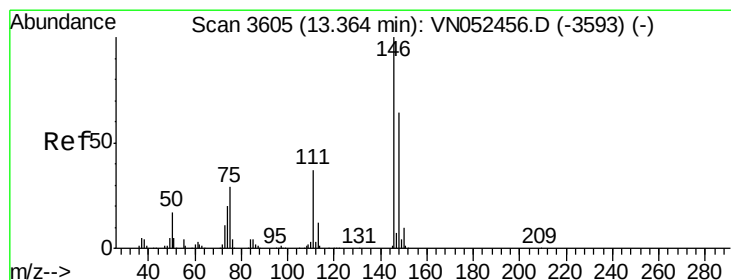
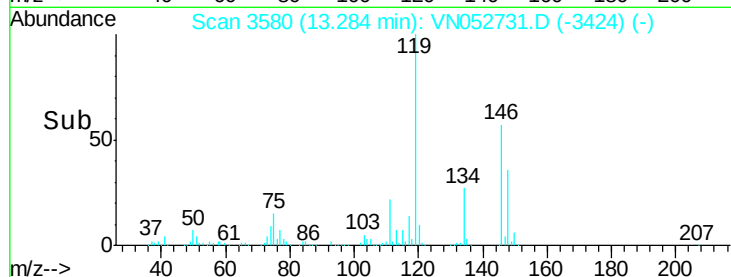
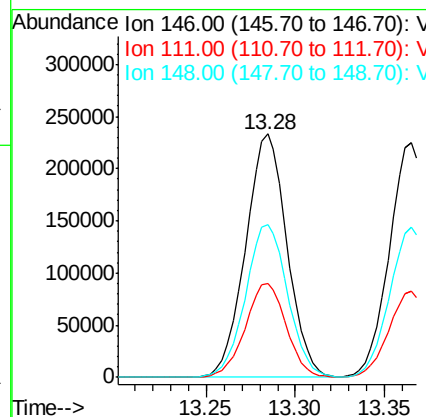
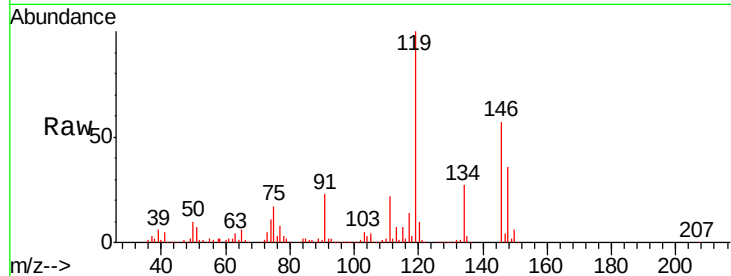
#83
 1,3-Dichlorobenzene
 Concen: 20.813 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.7	59.0
148	63.9	32.3	96.8

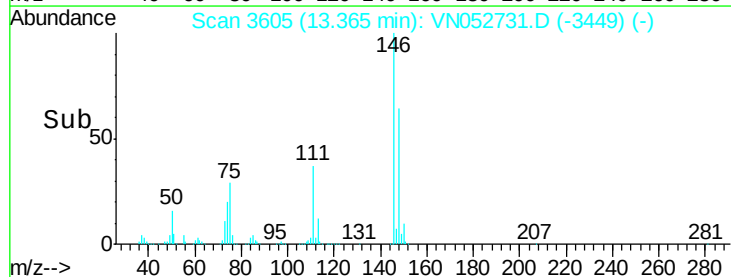
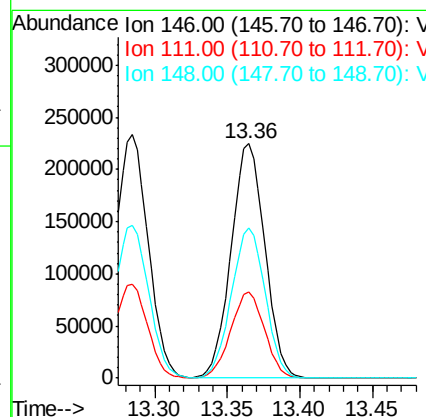
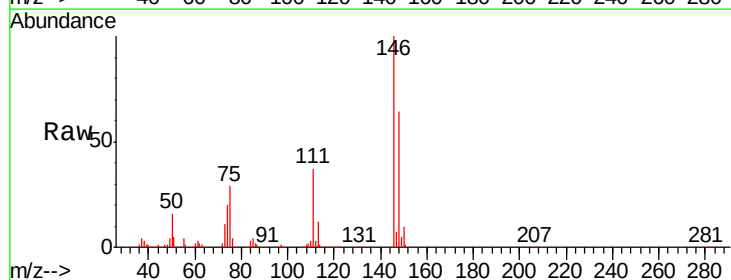
Manual Integrations
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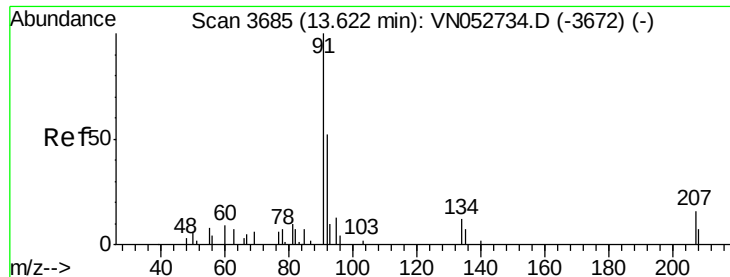
MMDadoda
 12/10/2018 12:51:02 PM



#84
 1,4-Dichlorobenzene
 Concen: 20.712 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.8	56.3
148	63.9	32.5	97.4





#85

n-Butylbenzene

Concen: 19.204 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_N

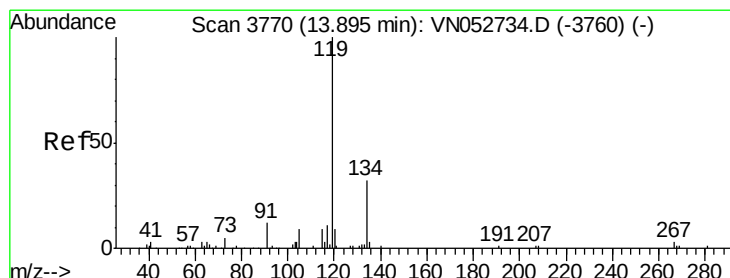
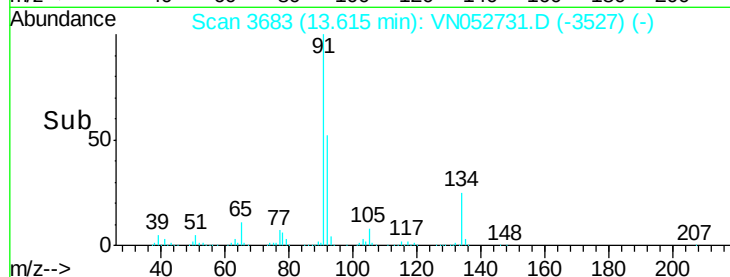
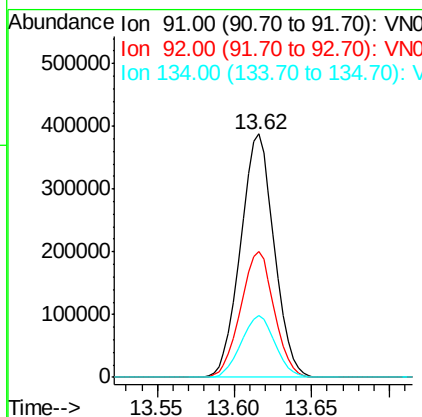
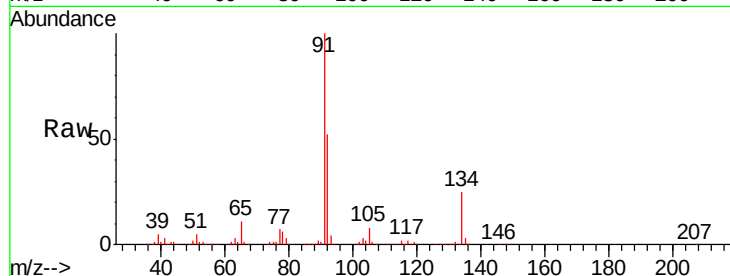
ClientSampleId :

VN1207WBSD01

Tgt Ion:	91	Resp:	586989
Ion	Ratio	Lower	Upper
91	100		
92	51.7	0.0	104.2
134	25.5	0.0	50.6

Manual Integrations
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#86

Hexachloroethane

Concen: 21.073 ug/l

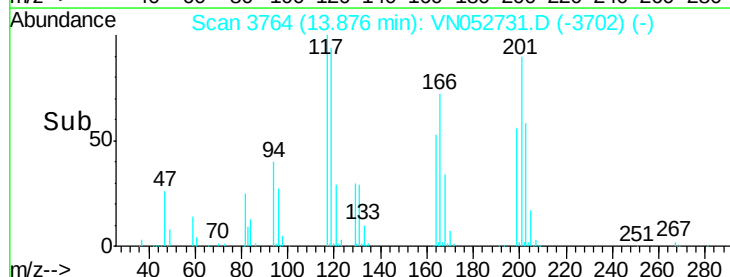
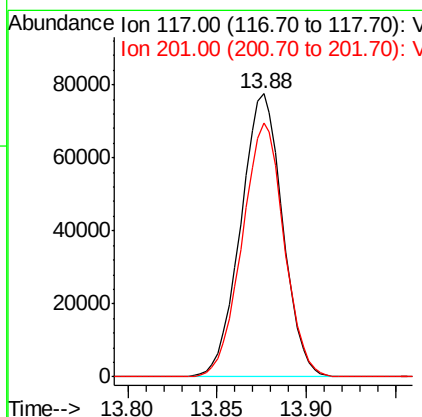
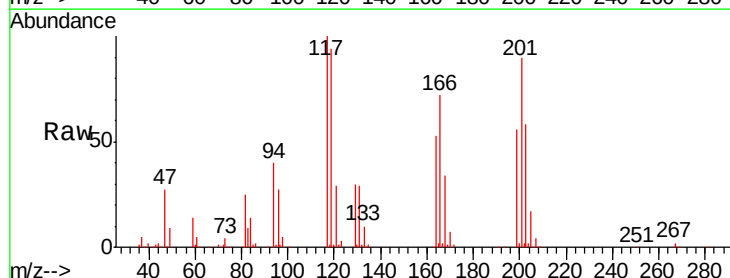
RT: 13.88 min Scan# 3764

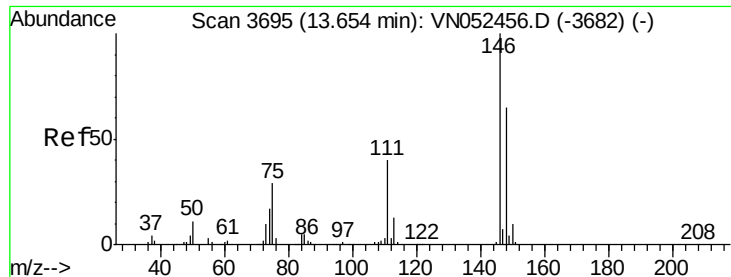
Delta R.T. 0.00 min

Lab File: VN052731.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	117	Resp:	127056
Ion	Ratio	Lower	Upper
117	100		
201	89.5	43.8	131.3





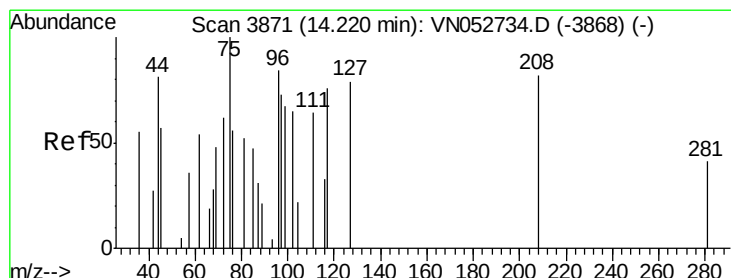
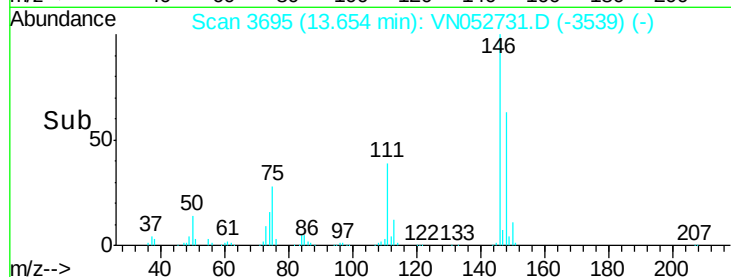
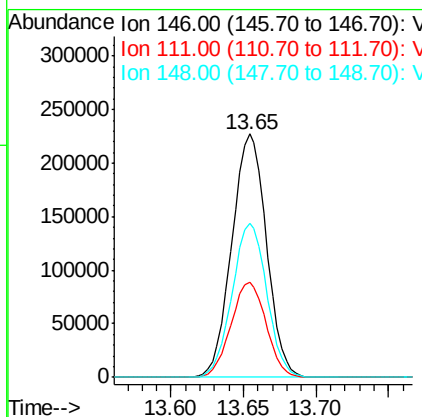
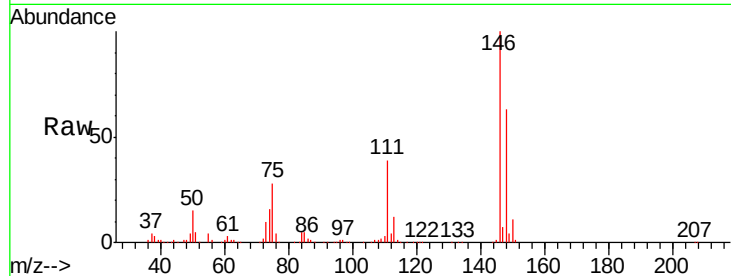
#87
 1,2-Dichlorobenzene
 Concen: 21.848 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.3	60.8
148	63.3	32.1	96.5

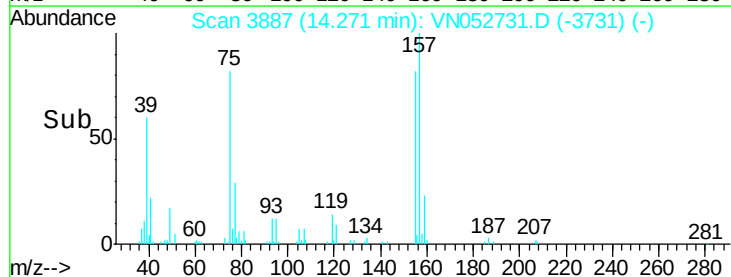
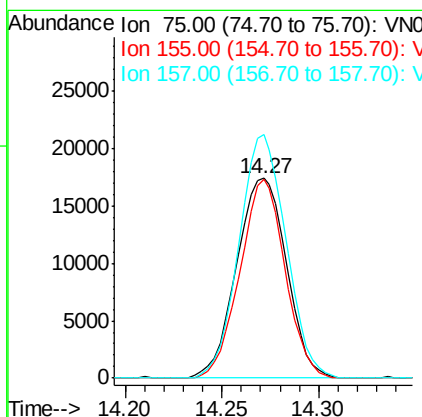
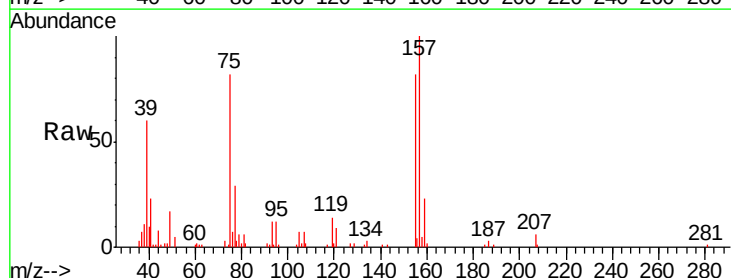
Manual Integrations
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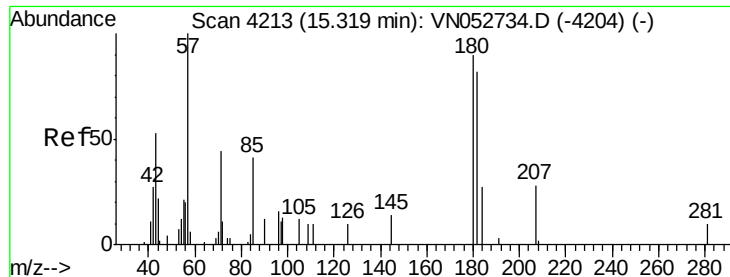
MMDadoda
 12/10/2018 12:51:02 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 24.085 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.9	72.2	108.2
157	114.8	94.2	141.2





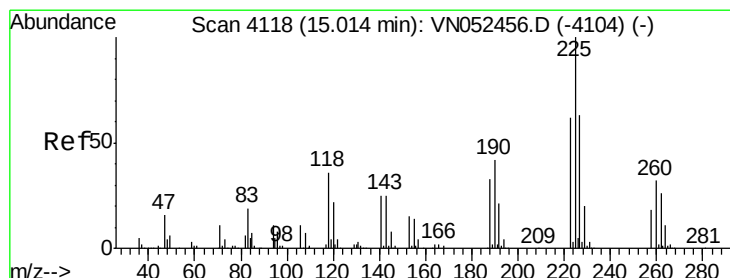
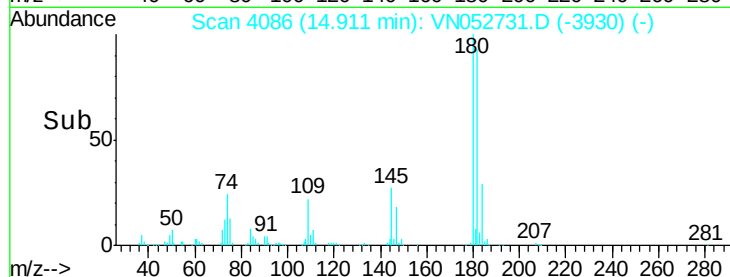
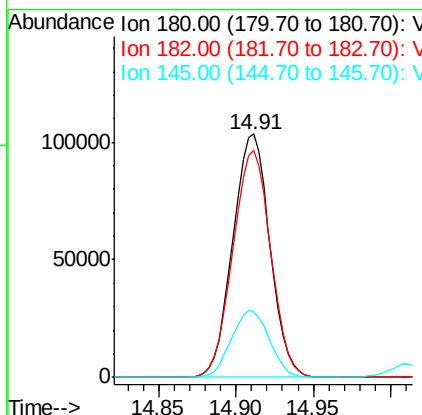
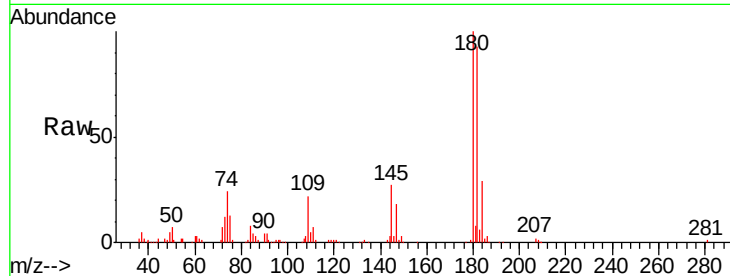
#89
 1,2,4-Trichlorobenzene
 Concen: 20.214 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1207WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	171939		
182	95.2	76.6	114.8	
145	28.0	23.6	35.4	

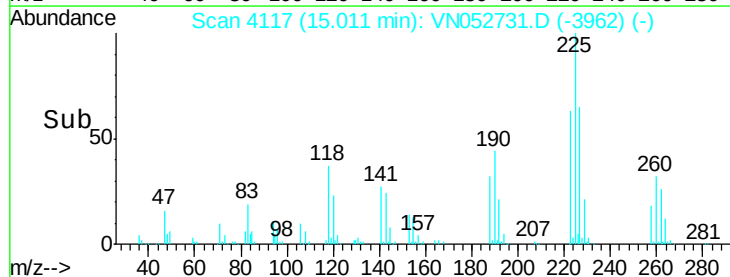
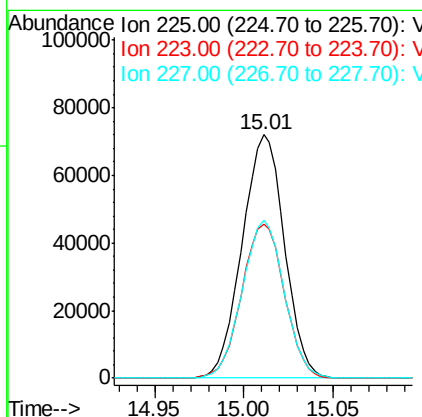
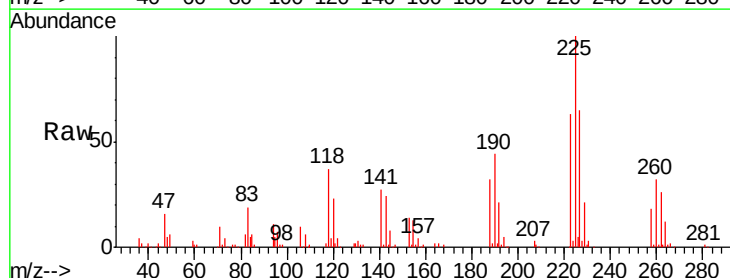
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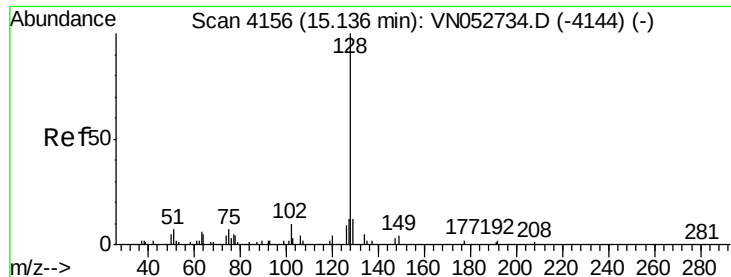
MMDadoda
 12/10/2018 12:51:02 PM



#90
 Hexachlorobutadiene
 Concen: 21.410 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052731.D
 Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	119463		
223	63.7	0.0	125.6	
227	64.2	0.0	127.8	





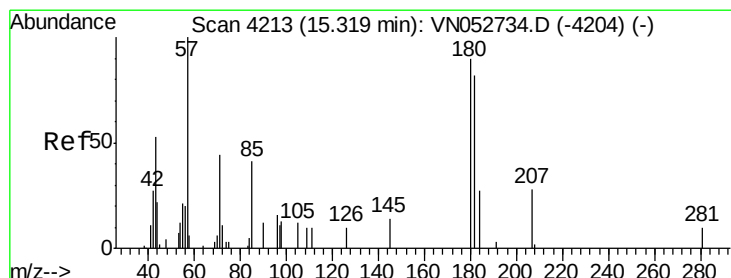
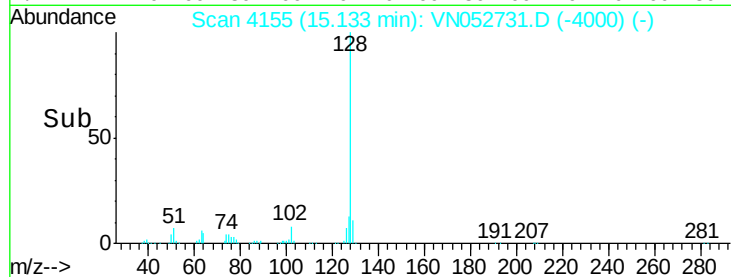
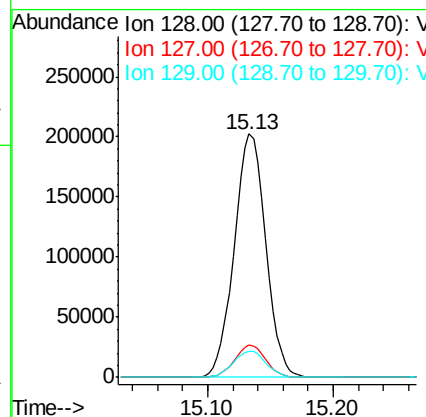
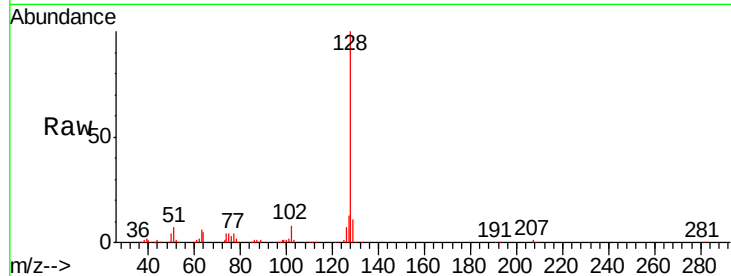
#91
Naphthalene
Concen: 20.601 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Instrument :
MSVOA_N
ClientSampleId :
VN1207WBSD01

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.1	9.9	14.9
129	11.1	8.5	12.7

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 21.435 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052731.D
Acq: 7 Dec 2018 17:12

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	96.4	0.0	196.2
145	30.1	0.0	62.2

