

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121818\
 Data File : VN052971.D
 Acq On : 18 Dec 2018 19:44
 Operator : MD\SY
 Sample : VN1218MBSD01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:07:18 PM

Quant Time: Dec 19 04:42:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1188327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1849696	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1586739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	676928	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	638009	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
35) Dibromofluoromethane	7.59	113	434630	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
50) Toluene-d8	10.09	98	2286837	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.40	95	742757	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.85	85	238497	19.830	ug/l 100
3) Chloromethane	2.06	50	277017	19.008	ug/l 99
4) Vinyl Chloride	2.19	62	297887	20.182	ug/l 100
5) Bromomethane	2.58	94	192416	18.816	ug/l 99
6) Chloroethane	2.71	64	174837	20.000	ug/l 99
7) Trichlorofluoromethane	3.03	101	381829	20.766	ug/l 99
8) Diethyl Ether	3.41	74	146819	21.166	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	238347	20.331	ug/l 99
10) Methyl Iodide	3.96	142	334978	20.346	ug/l 99
11) Tert butyl alcohol	4.78	59	77405	105.197	ug/l 97
12) 1,1-Dichloroethene	3.74	96	233631	20.627	ug/l 99
13) Acrolein	3.61	56	80549	120.729	ug/l 98
14) Allyl chloride	4.33	41	375840	21.423	ug/l 96
15) Acrylonitrile	4.99	53	415915	101.746	ug/l 99
16) Acetone	3.82	43	256020	108.279	ug/l 96
17) Carbon Disulfide	4.06	76	674452	18.259	ug/l 99
18) Methyl Acetate	4.33	43	209832	20.157	ug/l 99
19) Methyl tert-butyl Ether	5.05	73	642245	21.189	ug/l 98
20) Methylene Chloride	4.56	84	259600	20.128	ug/l 96
21) trans-1,2-Dichloroethene	5.05	96	245258	20.154	ug/l 99
22) Diisopropyl ether	5.95	45	801434	21.401	ug/l 98
23) Vinyl Acetate	5.90	43	2281870	105.967	ug/l 99
24) 1,1-Dichloroethane	5.85	63	465210	20.906	ug/l 99
25) 2-Butanone	6.83	43	429426	108.219	ug/l 98
26) 2,2-Dichloropropane	6.83	77	318815	18.768	ug/l 99
27) cis-1,2-Dichloroethene	6.83	96	283925	20.609	ug/l 98
28) Bromochloromethane	7.20	49	201405	20.887	ug/l 95
29) Tetrahydrofuran	7.21	42	312081	105.302	ug/l 98
30) Chloroform	7.37	83	456094	20.864	ug/l 99
31) Cyclohexane	7.66	56	448209	20.863	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	378102	20.304	ug/l 99
36) 1,1-Dichloropropene	7.79	75	354077	19.944	ug/l 100
37) Ethyl Acetate	6.93	43	205754	20.760	ug/l 98
38) Carbon Tetrachloride	7.77	117	319286	19.621	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	415853	19.282	ug/l	97
40) Benzene	8.04	78	1069014	20.243	ug/l	99
41) Methacrylonitrile	7.17	41	121239	21.171	ug/l	94
42) 1,2-Dichloroethane	8.13	62	316880	20.312	ug/l	99
43) Isopropyl Acetate	8.16	43	399599	20.212	ug/l	100
44) Trichloroethene	8.84	130	298460	19.540	ug/l	97
45) 1,2-Dichloropropane	9.12	63	279909	20.349	ug/l	100
46) Dibromomethane	9.21	93	159504	19.906	ug/l	99
47) Bromodichloromethane	9.40	83	337263	19.801	ug/l	100
48) Methyl methacrylate	9.20	41	192404	20.006	ug/l	98
49) 1,4-Dioxane	9.20	88	45077	370.528	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1010400	105.271	ug/l	99
52) Toluene	10.16	92	659384	20.145	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	335085	18.709	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	402042	19.556	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	229665	20.112	ug/l	98
56) Ethyl methacrylate	10.43	69	307354	20.335	ug/l	97
57) 1,3-Dichloropropane	10.71	76	398502	20.350	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	853970	102.915	ug/l	98
59) 2-Hexanone	10.75	43	668458	102.936	ug/l	99
60) Dibromochloromethane	10.90	129	247852	18.962	ug/l	100
61) 1,2-Dibromoethane	11.01	107	228201	19.677	ug/l	99
64) Tetrachloroethene	10.63	164	336367	19.570	ug/l	99
65) Chlorobenzene	11.43	112	698141	19.848	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	248020	20.277	ug/l	100
67) Ethyl Benzene	11.51	91	1213495	20.061	ug/l	100
68) m/p-Xylenes	11.62	106	909169	39.537	ug/l	99
69) o-Xylene	11.95	106	441772	20.021	ug/l	100
70) Styrene	11.96	104	705054	19.595	ug/l	99
71) Bromoform	12.13	173	161133	18.235	ug/l #	99
73) Isopropylbenzene	12.25	105	1161418	21.929	ug/l	100
74) N-amyl acetate	12.07	43	332713	22.626	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	236238	22.736	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	231456m	20.311	ug/l	
77) Bromobenzene	12.53	156	297488	21.608	ug/l	96
78) n-propylbenzene	12.59	91	1278063	21.188	ug/l	99
79) 2-Chlorotoluene	12.67	91	755151	20.197	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	891372	20.648	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	70758	20.013	ug/l	97
82) 4-Chlorotoluene	12.77	91	750277	20.499	ug/l	99
83) tert-Butylbenzene	12.99	119	795812	20.844	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	901933	20.783	ug/l	99
85) sec-Butylbenzene	13.17	105	1052120	20.373	ug/l	99
86) p-Isopropyltoluene	13.29	119	892099	19.992	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	476958	19.574	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	472644	19.154	ug/l	100
89) n-Butylbenzene	13.62	91	711213	18.526	ug/l	100
90) Hexachloroethane	13.88	117	129982	18.982	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	451643	19.694	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	34288	19.085	ug/l	99

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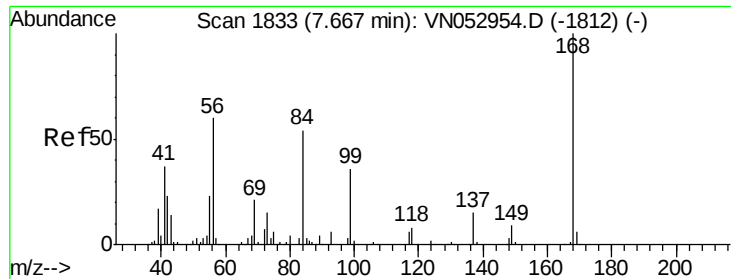
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	233778	19.608	ug/l	100
94) Hexachlorobutadiene	15.01	225	135578	19.818	ug/l	98
95) Naphthalene	15.13	128	509086	19.836	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	214898	19.950	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052971.D

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Tgt Ion:168 Resp: 1188327

Ion Ratio Lower Upper

168 100

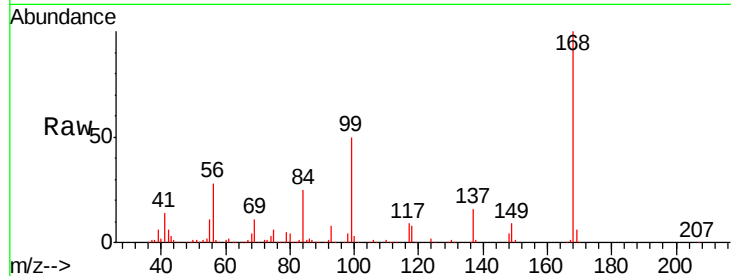
99 50.0 40.2 60.2

Manual Integrations

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12/19/2018 12:07:18 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

500000

400000

300000

200000

100000

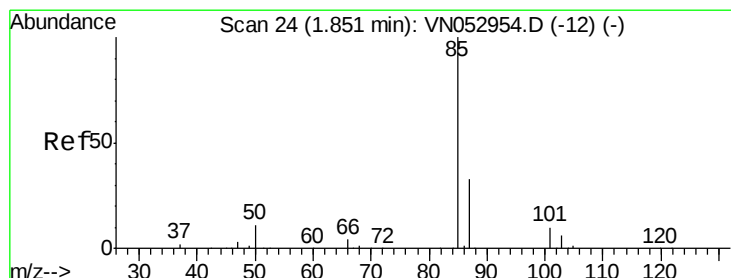
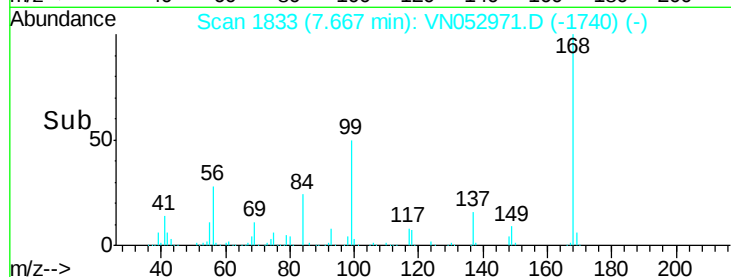
0

7.67

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 19.830 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052971.D

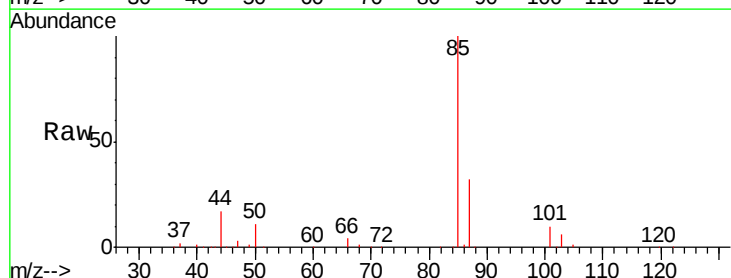
Acq: 18 Dec 2018 19:44

Tgt Ion: 85 Resp: 238497

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

200000

150000

100000

50000

0

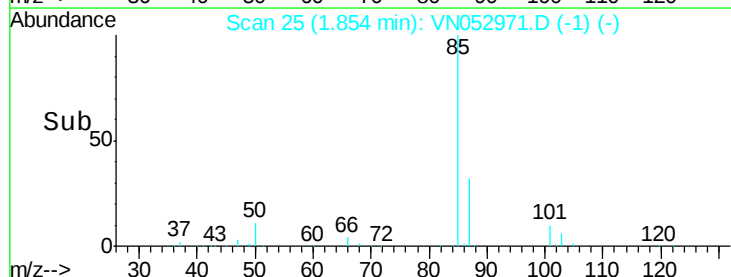
1.85

1.80

1.90

2.00

Time-->





#3

Chloromethane

Concen: 19.008 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 50 Resp: 277017

Ion Ratio Lower Upper

50 100

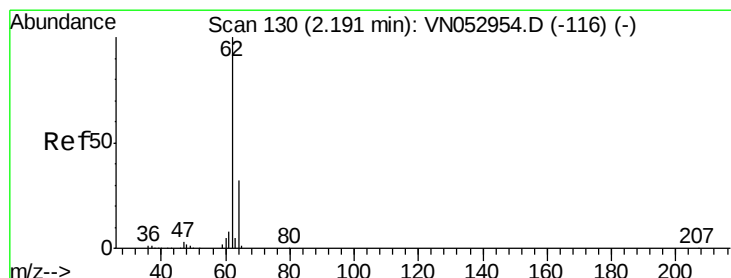
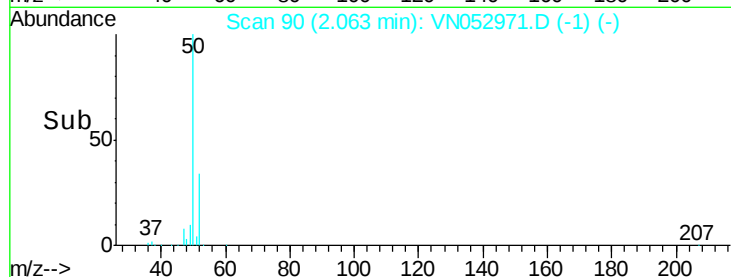
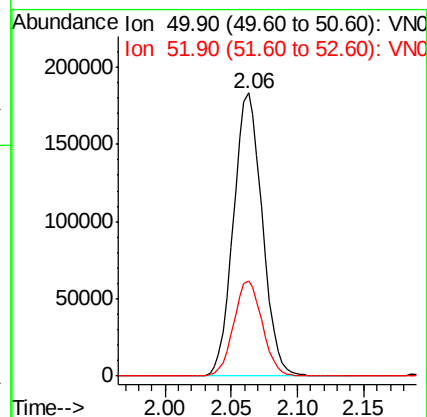
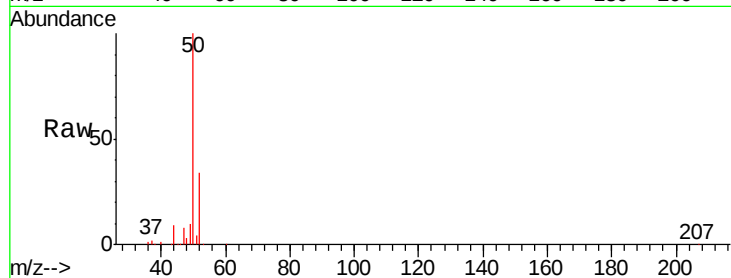
52 33.6 26.2 39.4

Manual Integrations

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12/19/2018 12:07:18 PM



#4

Vinyl Chloride

Concen: 20.182 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052971.D

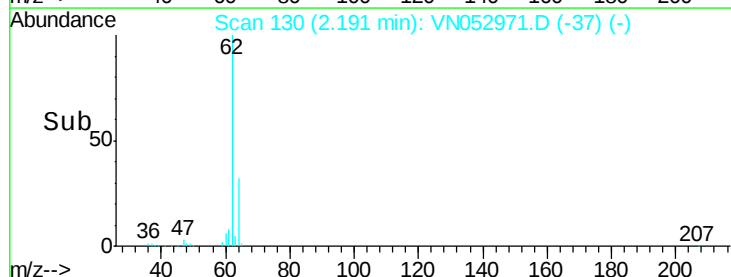
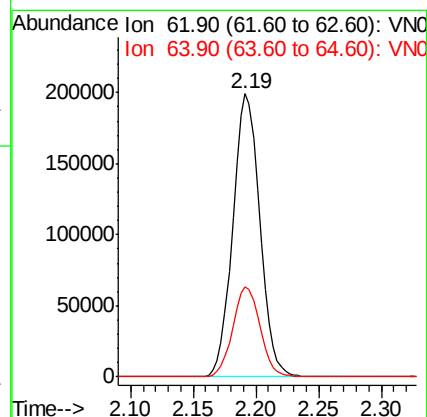
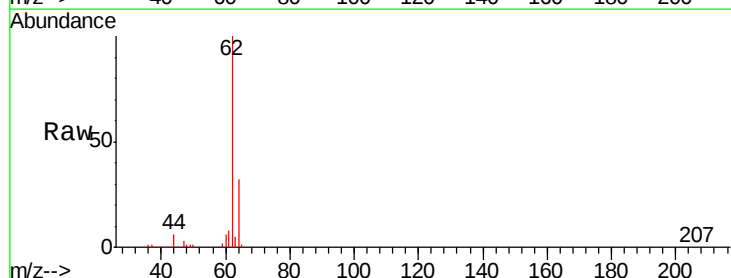
Acq: 18 Dec 2018 19:44

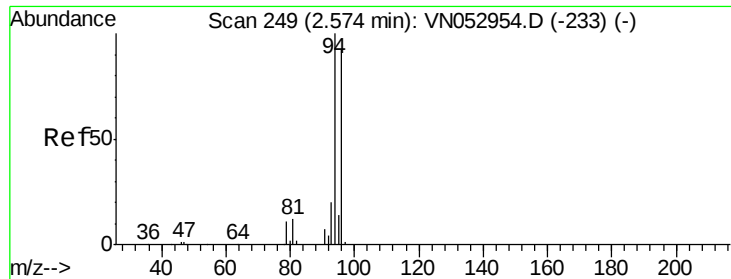
Tgt Ion: 62 Resp: 297887

Ion Ratio Lower Upper

62 100

64 31.8 25.5 38.3





#5

Bromomethane

Concen: 18.816 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBS01

Tgt Ion: 94 Resp: 192416

Ion Ratio Lower Upper

94 100

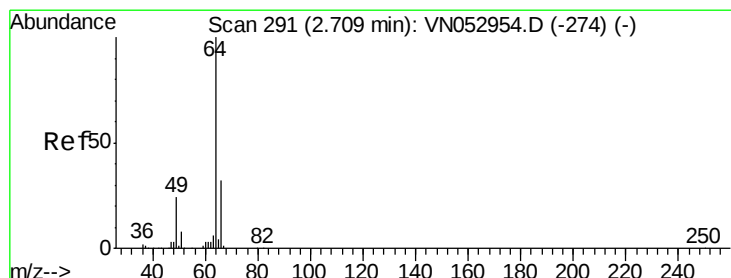
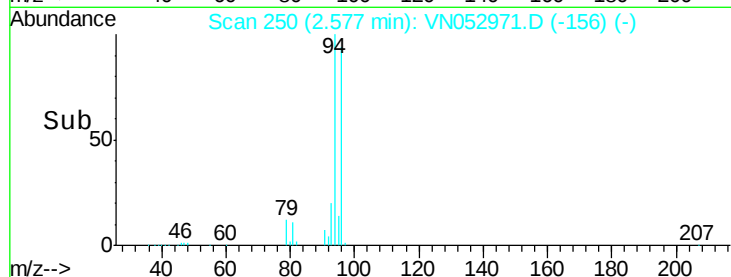
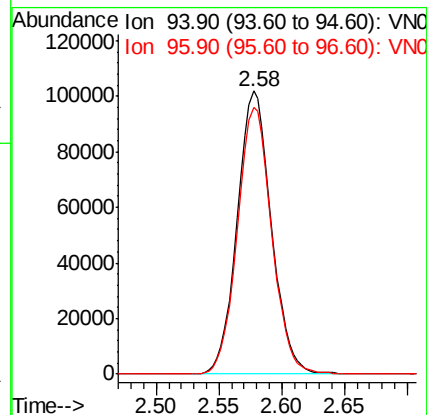
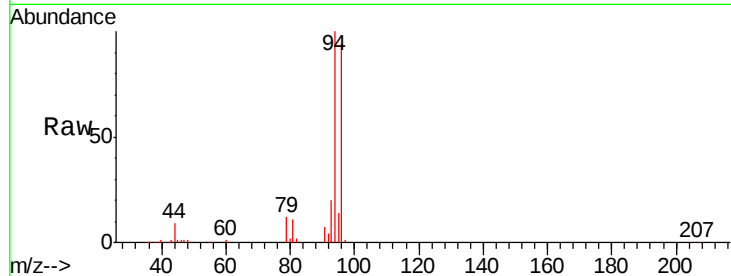
96 94.4 75.0 112.4

Manual Integrations

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12/19/2018 12:07:18 PM



#6

Chloroethane

Concen: 20.000 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052971.D

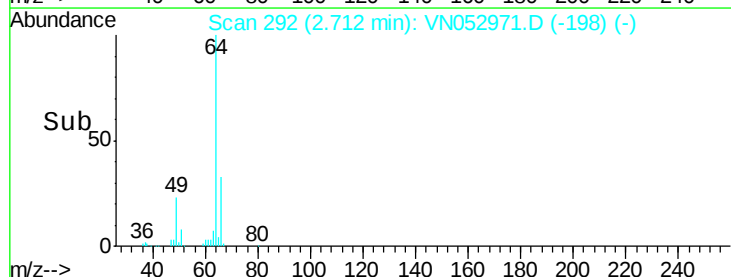
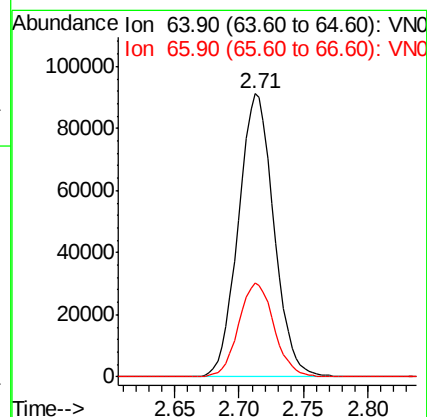
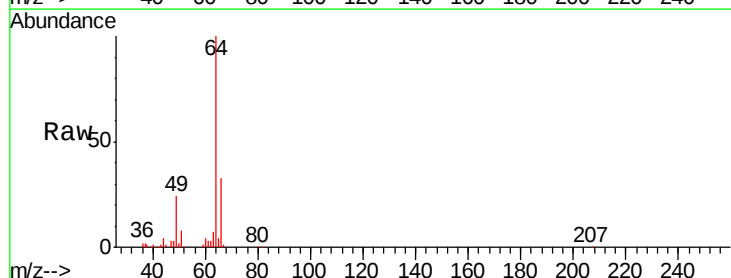
Acq: 18 Dec 2018 19:44

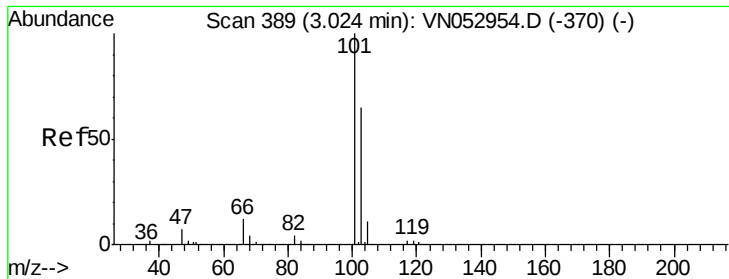
Tgt Ion: 64 Resp: 174837

Ion Ratio Lower Upper

64 100

66 33.0 26.2 39.2





#7

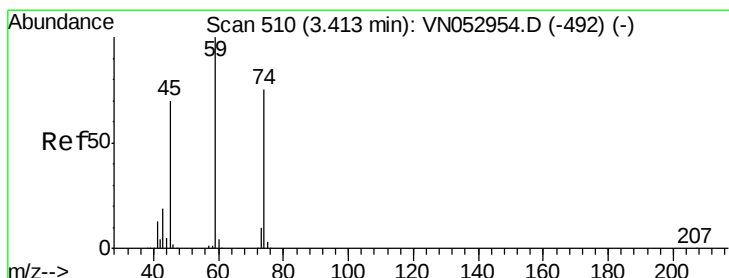
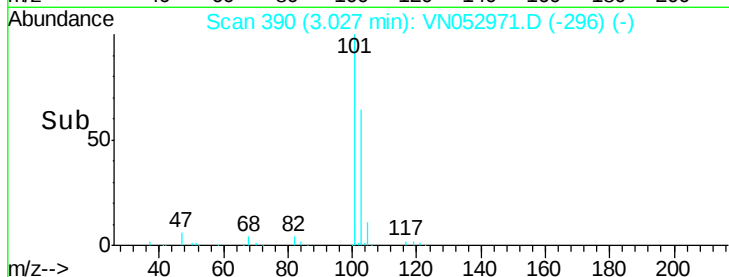
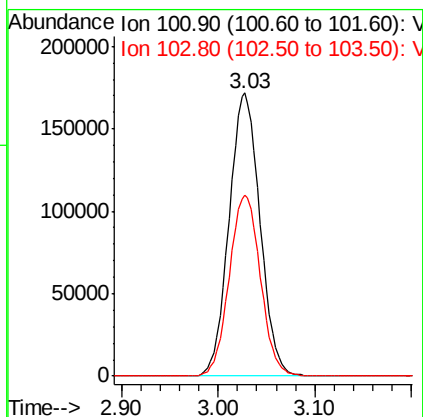
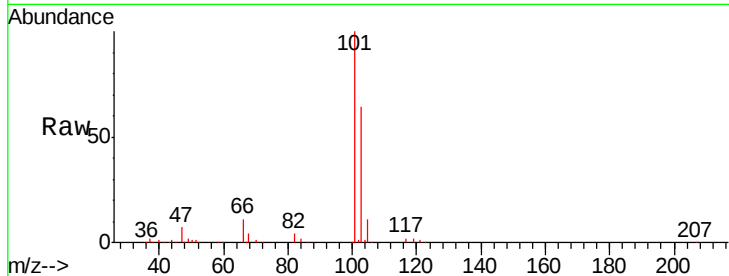
Trichlorofluoromethane
 Concen: 20.766 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	381829		
103	63.9	51.8	77.6	

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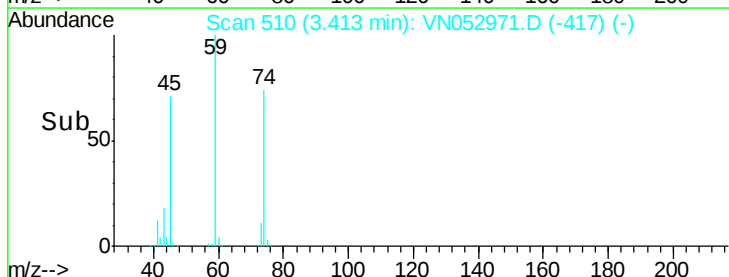
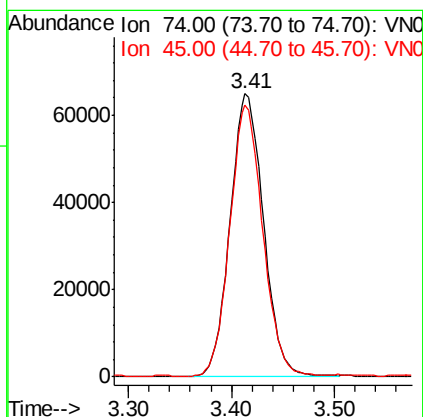
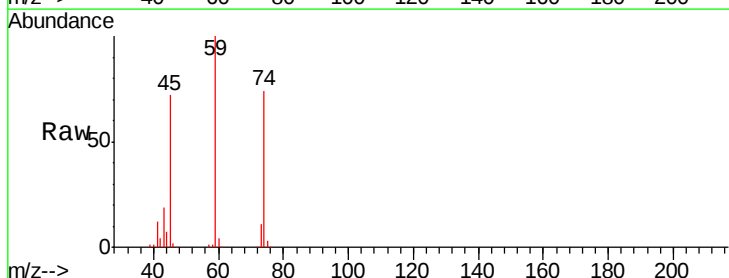
MMDadoda
 12/19/2018 12:07:18 PM

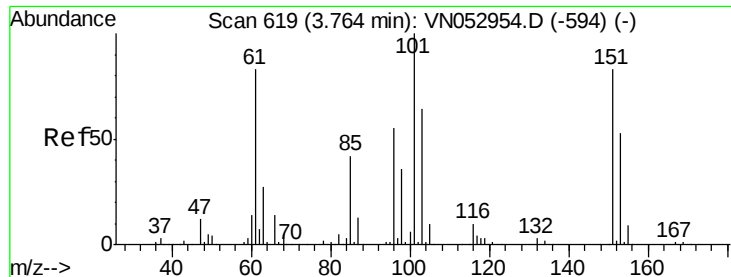


#8

Diethyl Ether
 Concen: 21.166 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	146819		
45	94.2	49.4	148.0	





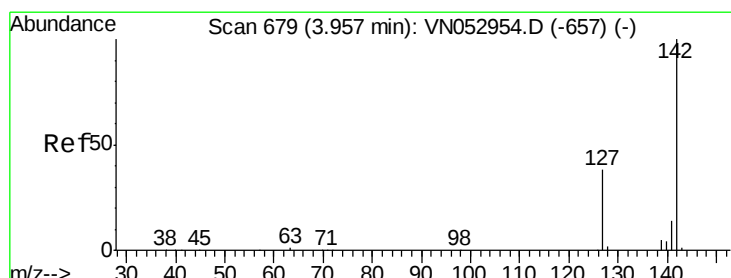
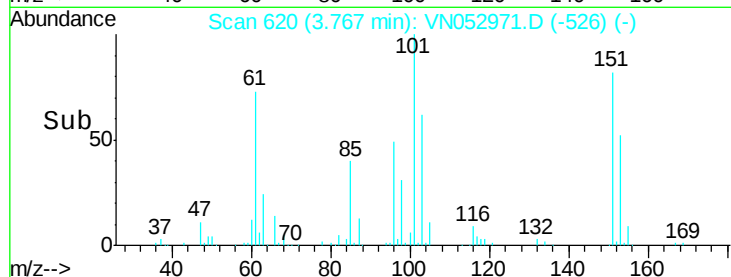
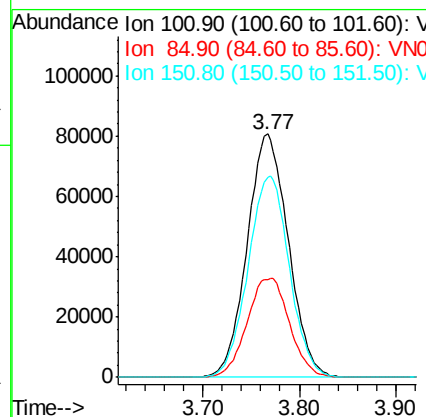
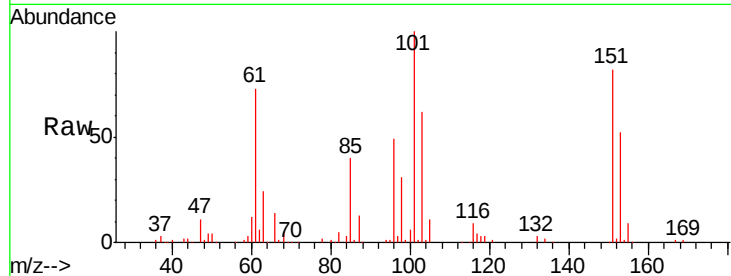
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.331 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052971.D
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	238347		
85	42.0	33.6	50.4	
151	83.1	65.5	98.3	

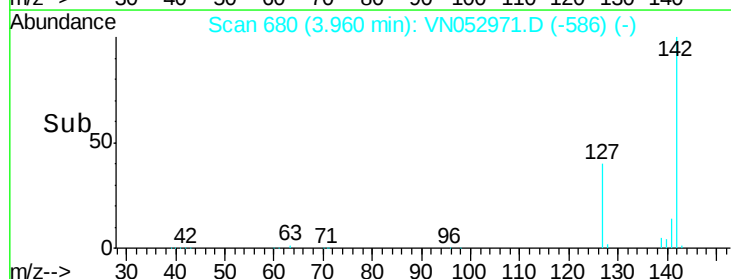
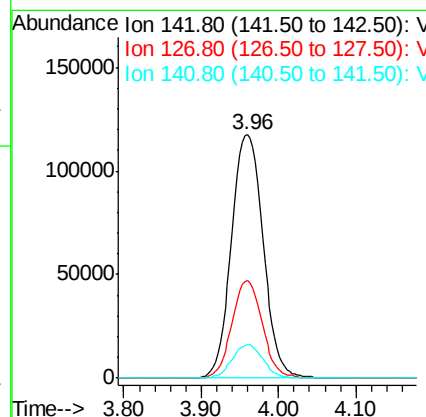
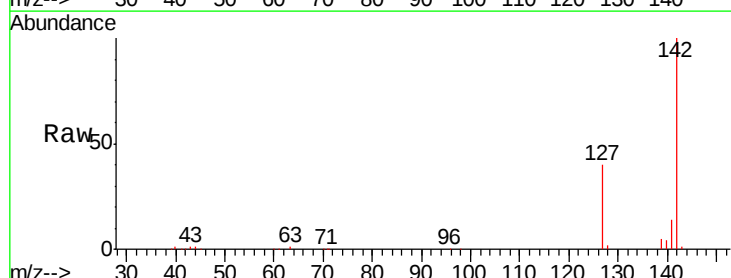
Manual Integrations
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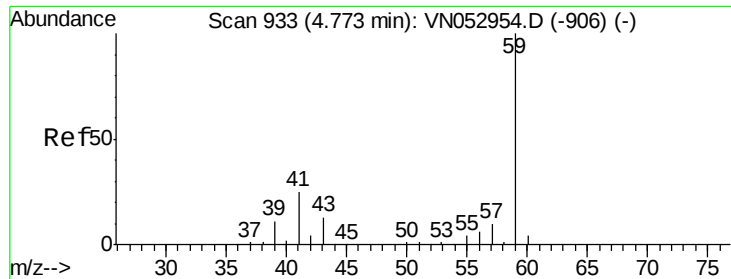
MMDadoda
 12/19/2018 12:07:18 PM



#10
 Methyl Iodide
 Concen: 20.346 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	334978		
127	38.3	31.0	46.6	
141	13.4	11.2	16.8	





#11

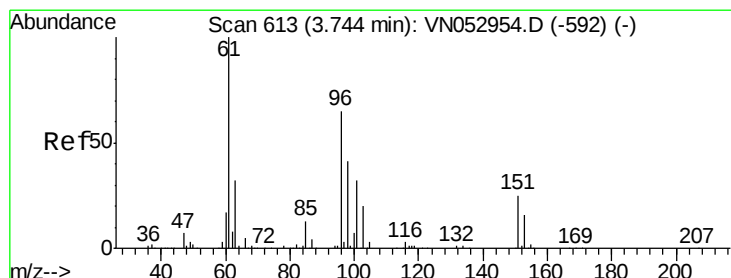
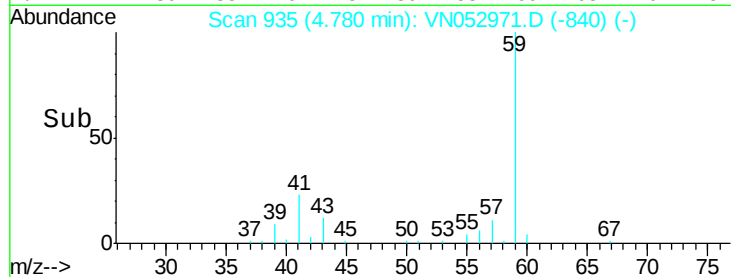
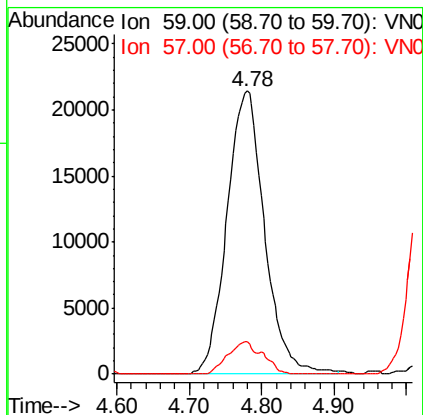
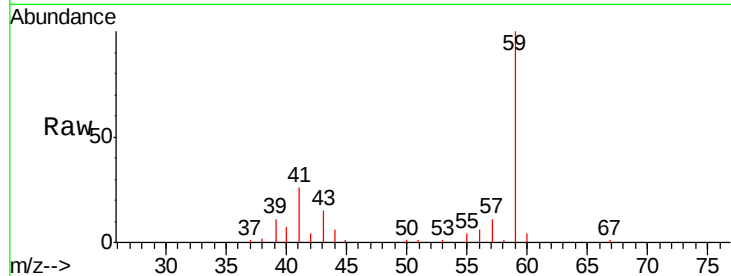
Tert butyl alcohol
 Concen: 105.197 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion: 59 Resp: 77405
 Ion Ratio Lower Upper
 59 100
 57 10.6 7.7 11.5

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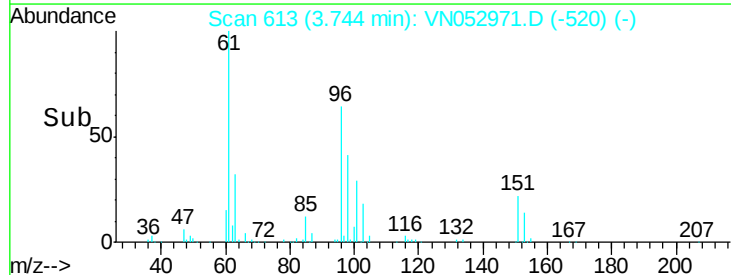
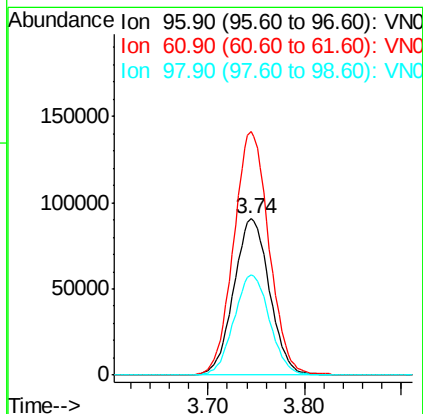
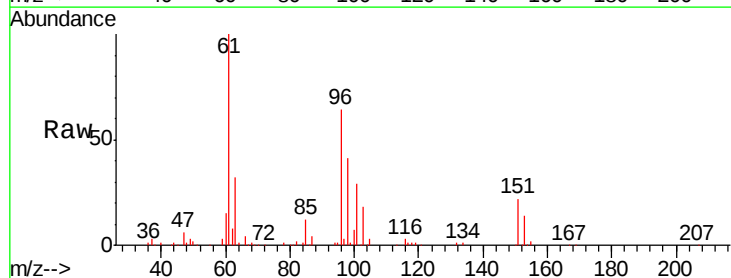
MMDadoda
 12/19/2018 12:07:18 PM

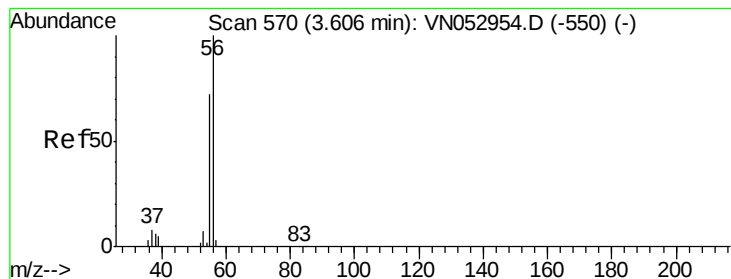


#12

1,1-Dichloroethene
 Concen: 20.627 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion: 96 Resp: 233631
 Ion Ratio Lower Upper
 96 100
 61 155.9 125.6 188.4
 98 63.9 50.6 75.8





#13

Acrolein

Concen: 120.729 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 56 Resp: 80549

Ion Ratio Lower Upper

56 100

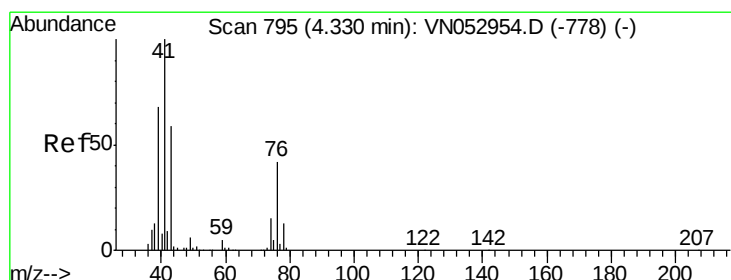
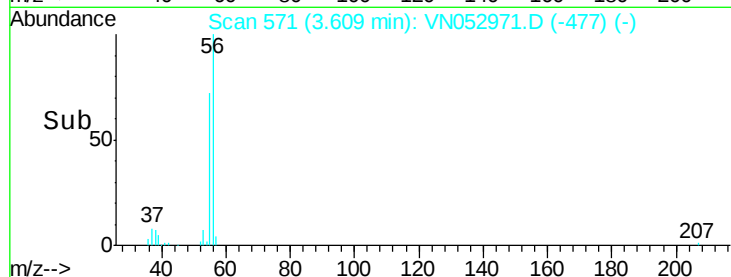
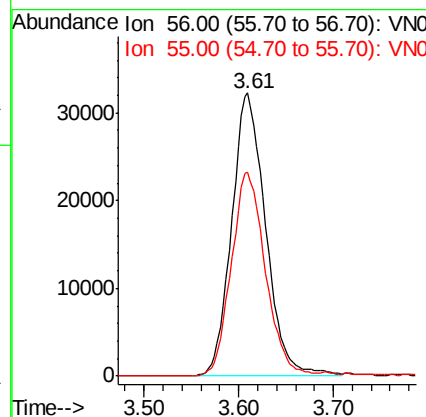
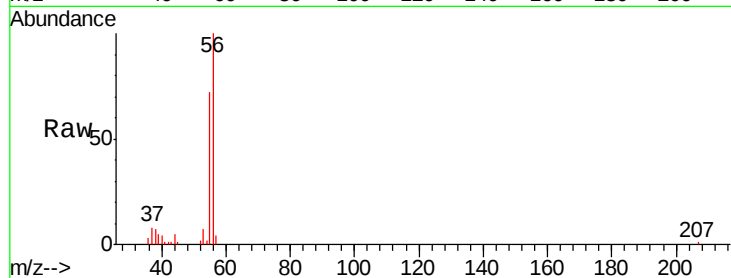
55 72.3 56.6 85.0

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#14

Allyl chloride

Concen: 21.423 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

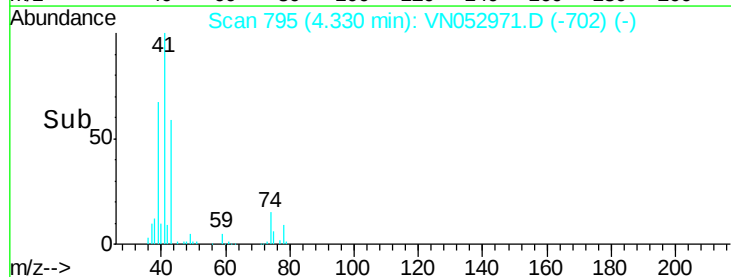
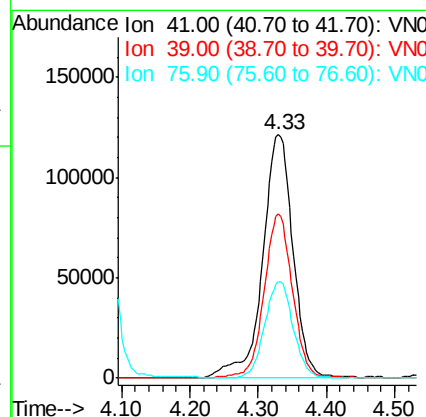
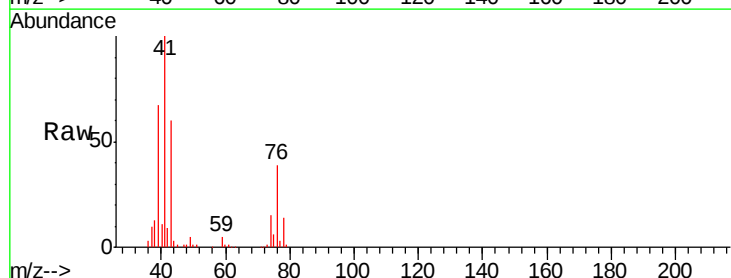
Tgt Ion: 41 Resp: 375840

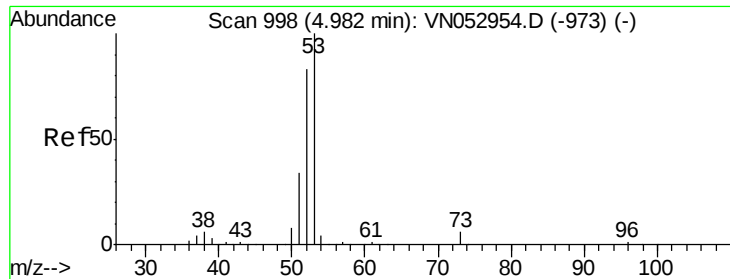
Ion Ratio Lower Upper

41 100

39 62.9 54.1 81.1

76 37.2 30.3 45.5





#15

Acrylonitrile

Concen: 101.746 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

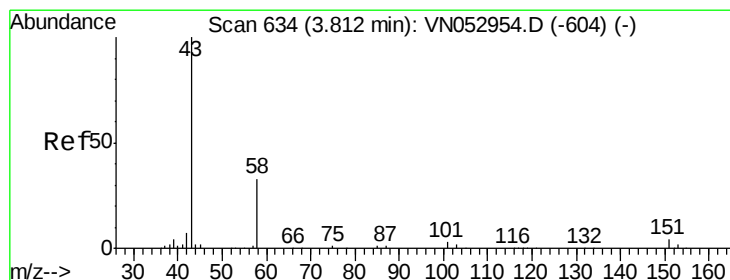
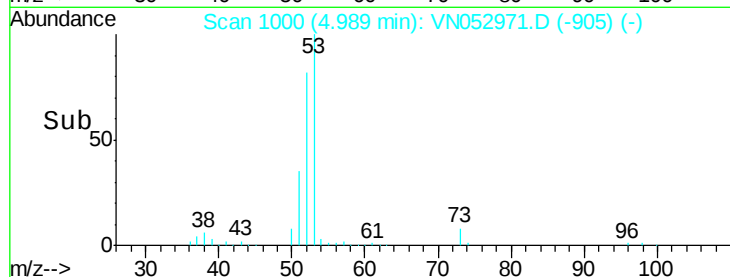
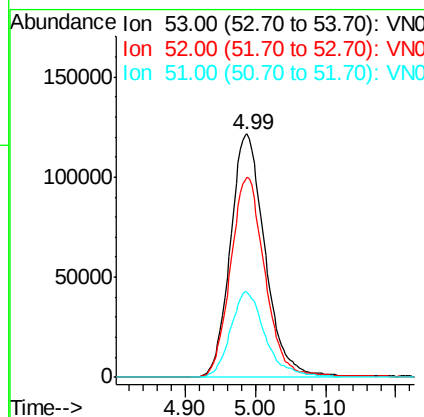
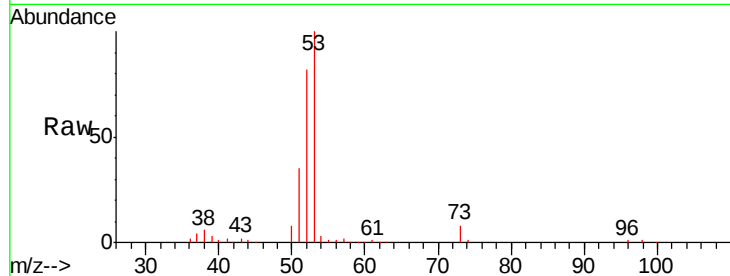
ClientSampleId :

VN1218MBSD01

Tgt Ion:	53	Resp:	415915
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.1	97.7
51	35.5	28.1	42.1

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#16

Acetone

Concen: 108.279 ug/l

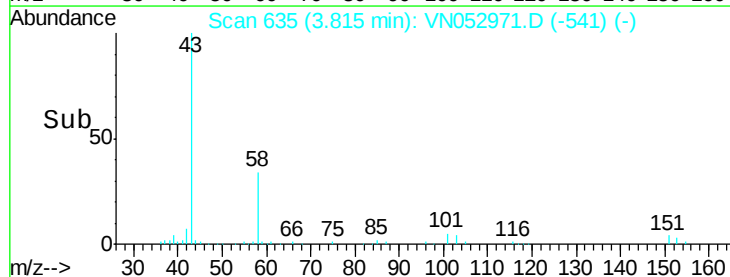
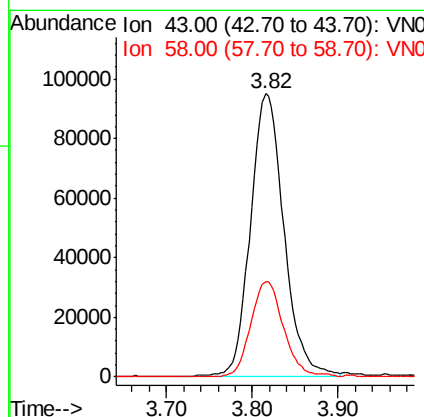
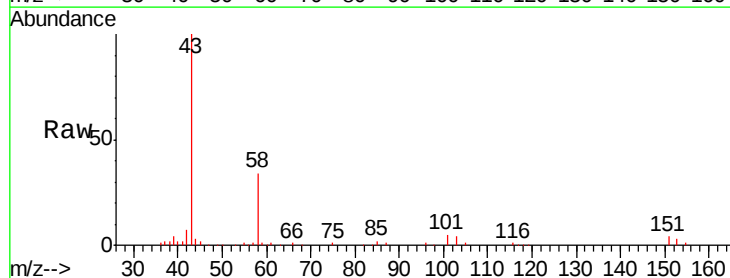
RT: 3.82 min Scan# 635

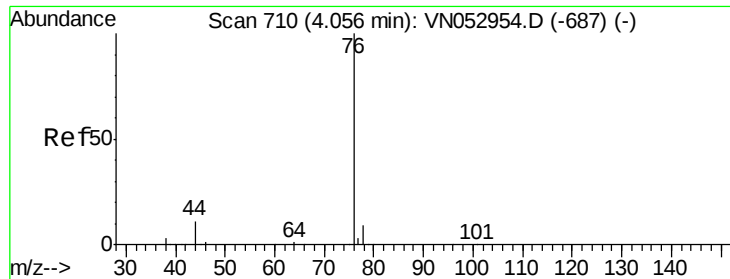
Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion:	43	Resp:	256020
Ion	Ratio	Lower	Upper
43	100		
58	33.8	25.4	38.0





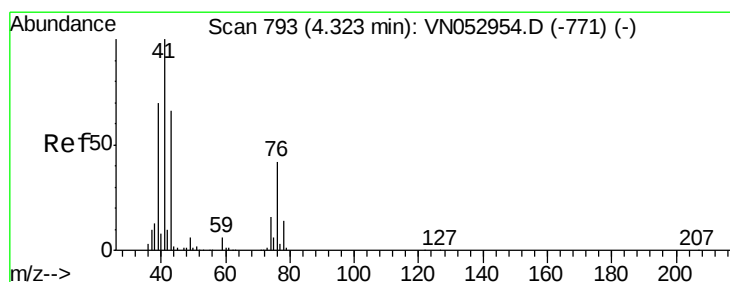
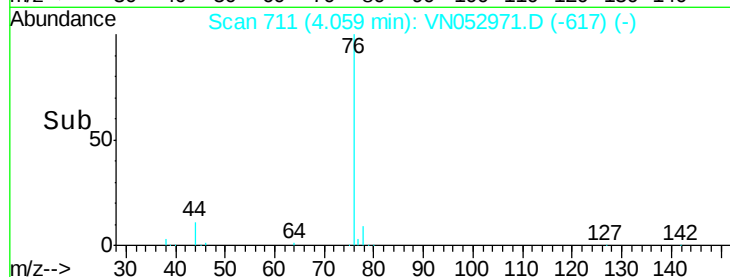
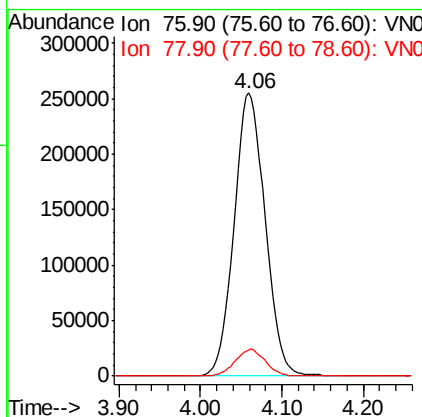
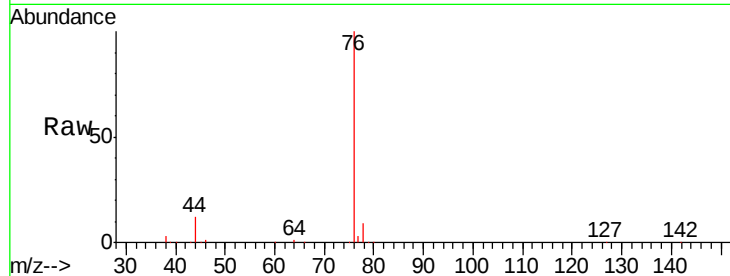
#17
Carbon Disulfide
Concen: 18.259 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion: 76 Resp: 674452
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7

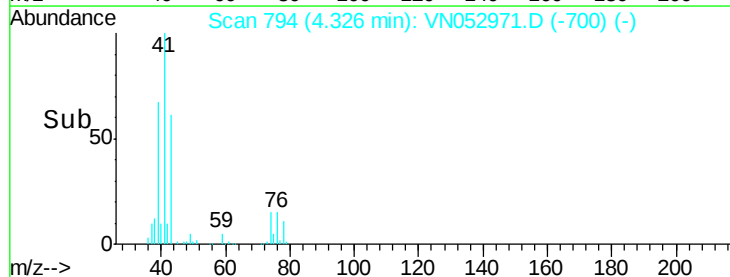
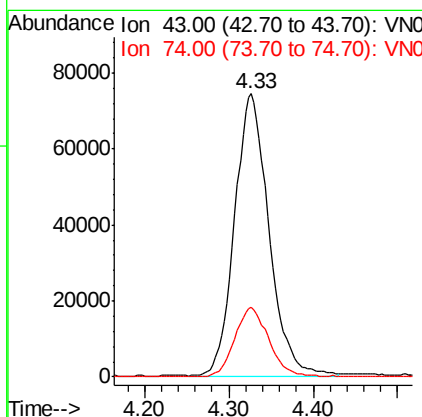
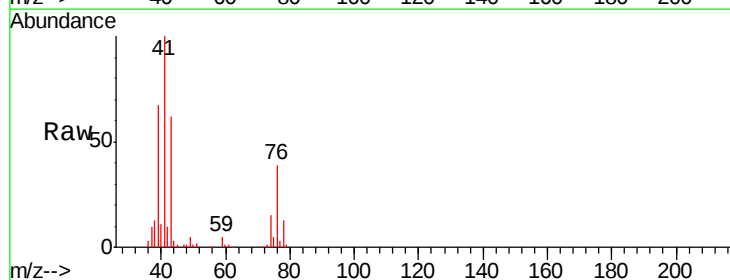
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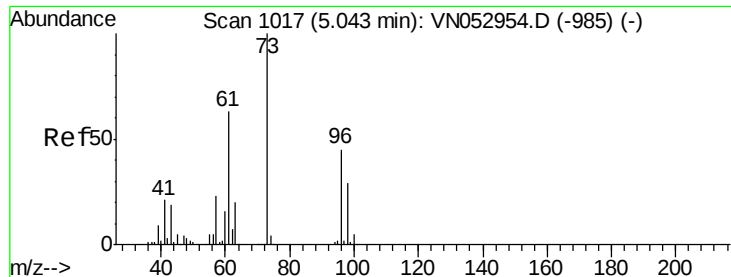
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#18
Methyl Acetate
Concen: 20.157 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 43 Resp: 209832
Ion Ratio Lower Upper
43 100
74 24.6 19.2 28.8





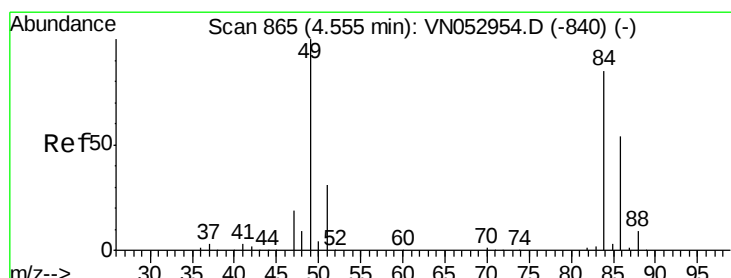
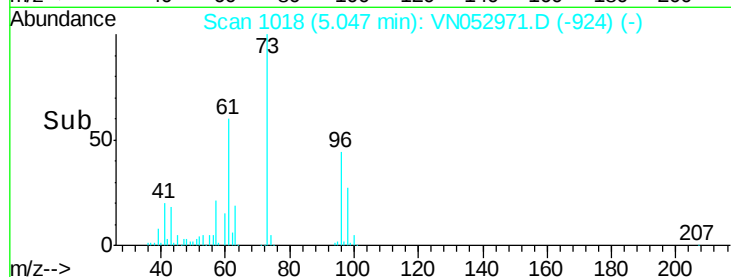
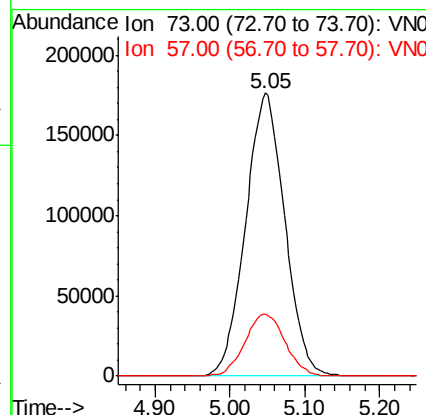
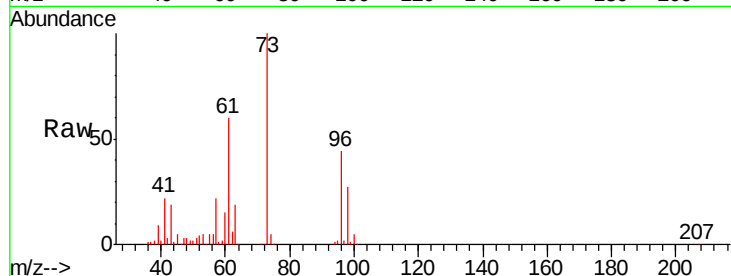
#19
Methyl tert-butyl Ether
Concen: 21.189 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion: 73 Resp: 642245
Ion Ratio Lower Upper
73 100
57 22.0 18.4 27.6

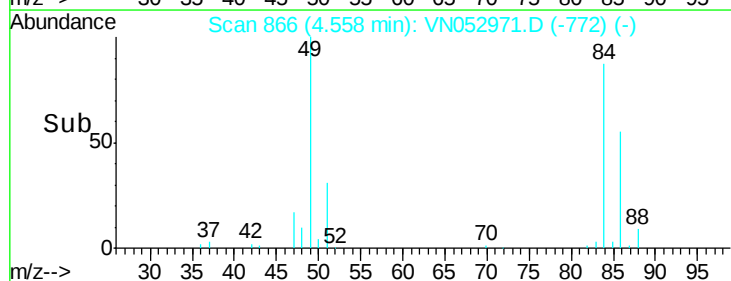
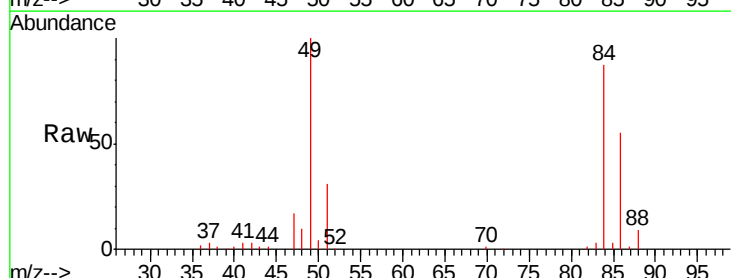
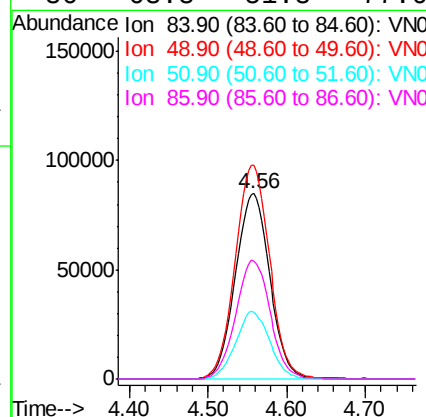
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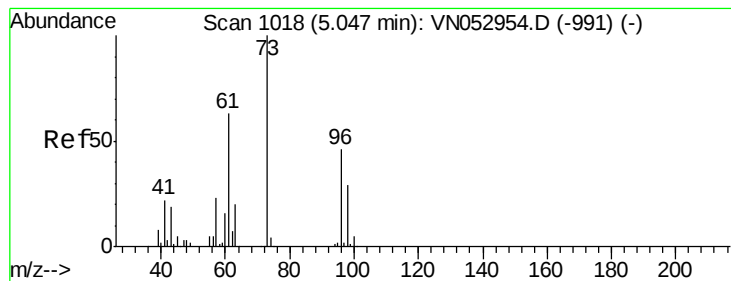
MMDadoda
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#20
Methylene Chloride
Concen: 20.128 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 84 Resp: 259600
Ion Ratio Lower Upper
84 100
49 115.3 96.8 145.2
51 35.7 29.9 44.9
86 63.8 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 20.154 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 96 Resp: 245258

Ion Ratio Lower Upper

96 100

61 137.7 110.8 166.2

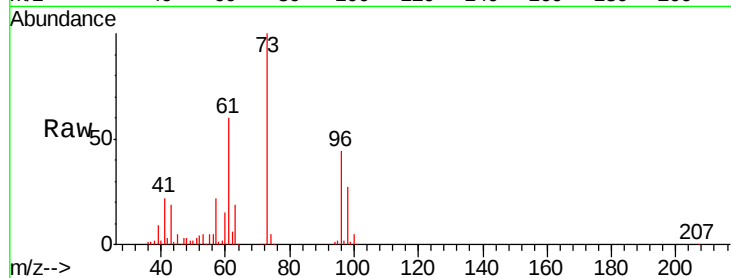
98 62.5 51.4 77.2

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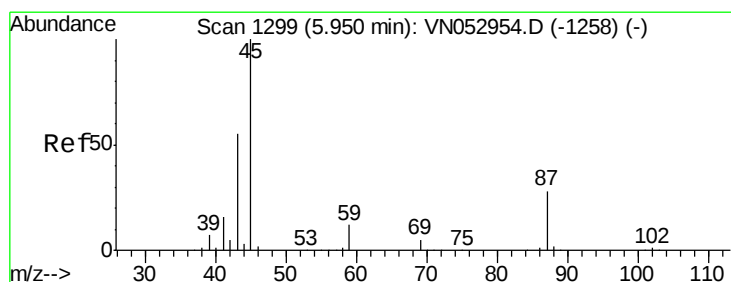
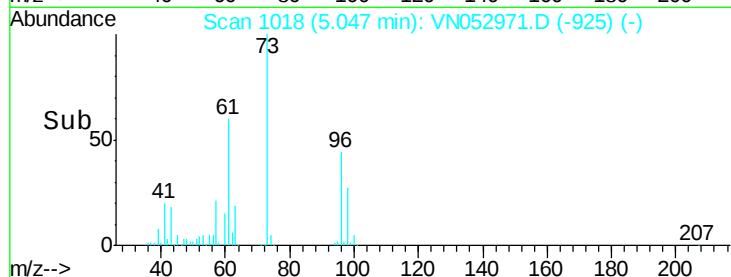
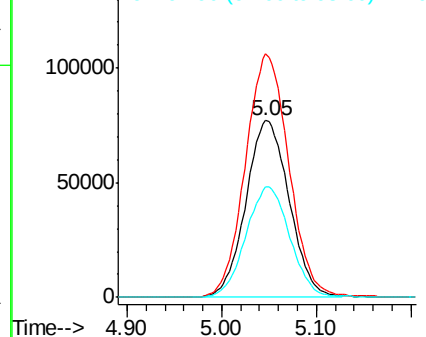
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Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.401 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion: 45 Resp: 801434

Ion Ratio Lower Upper

45 100

43 59.0 45.5 68.3

87 28.2 22.0 33.0

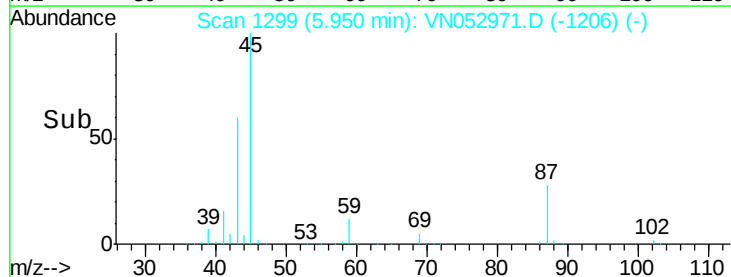
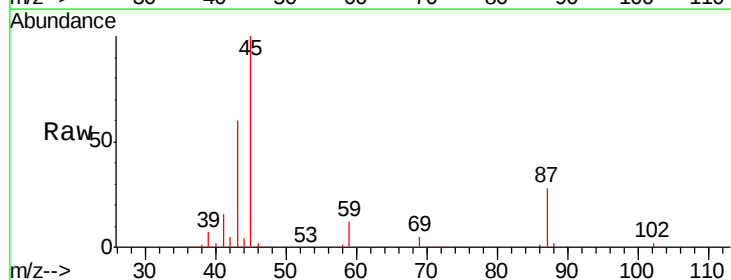
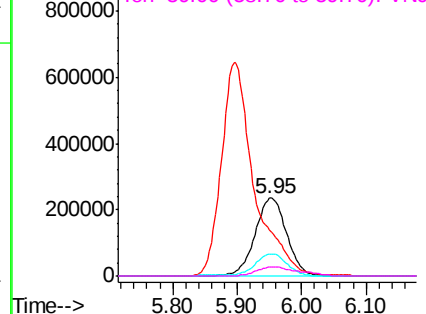
59 11.6 9.4 14.0

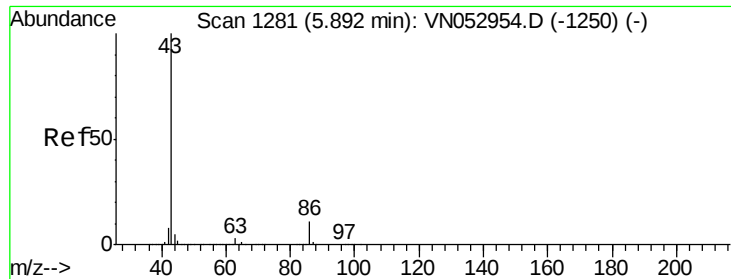
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 105.967 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 43 Resp: 2281870

Ion Ratio Lower Upper

43 100

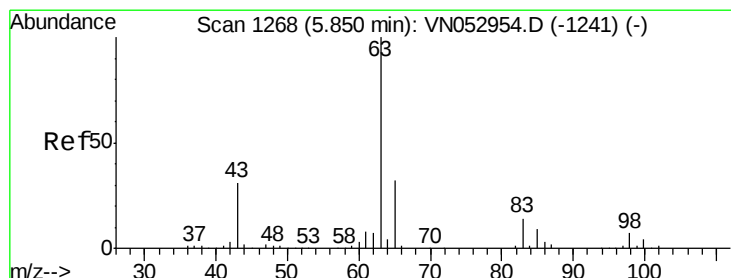
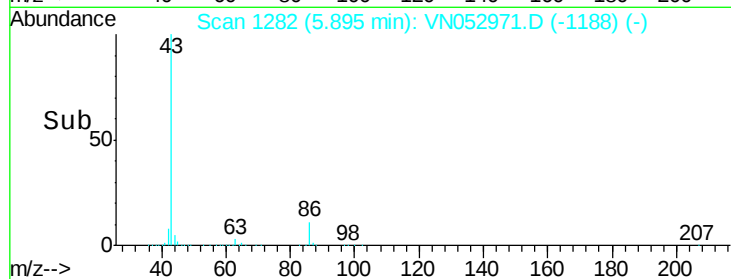
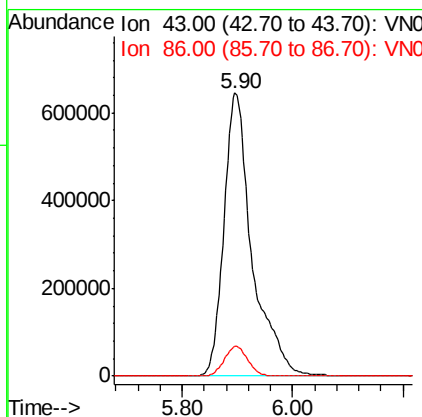
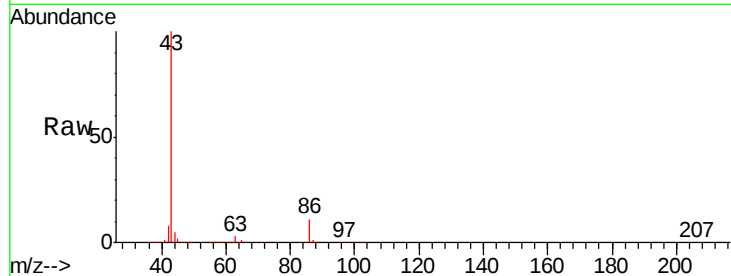
86 10.6 8.1 12.1

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#24

1,1-Dichloroethane

Concen: 20.906 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

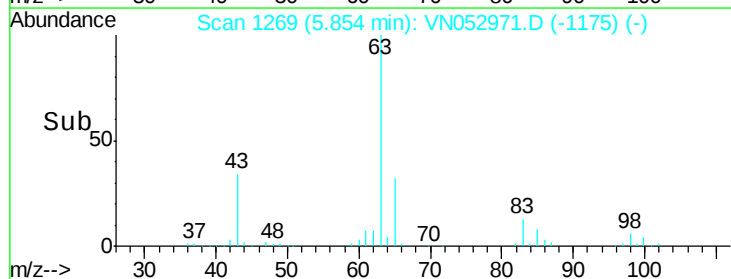
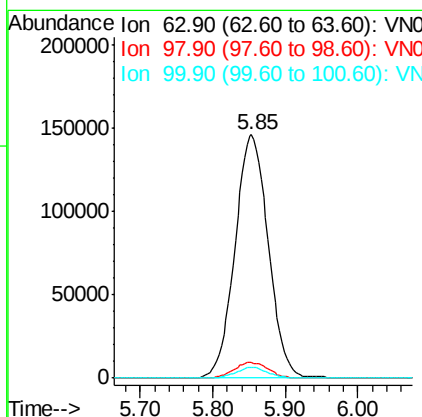
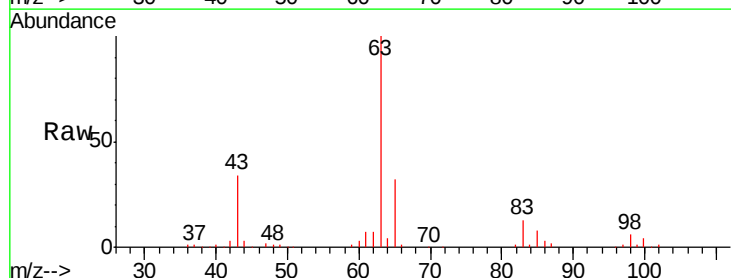
Tgt Ion: 63 Resp: 465210

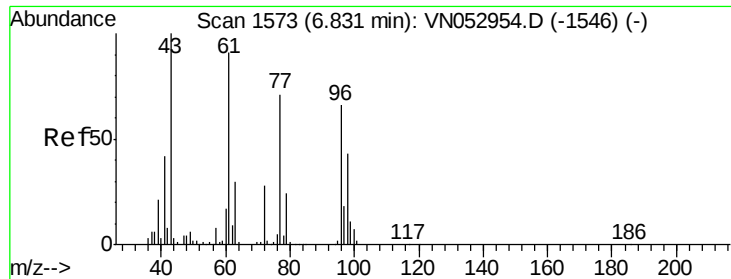
Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

100 4.5 2.0 5.8





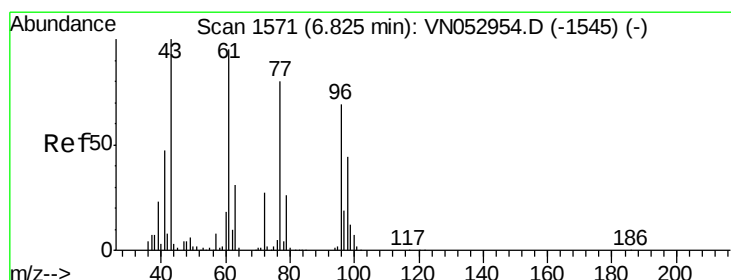
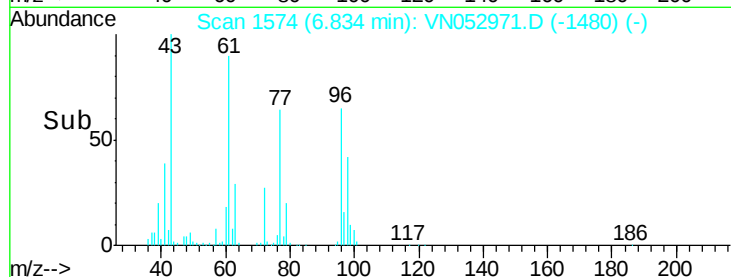
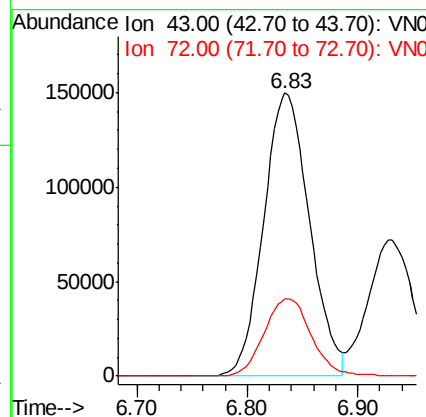
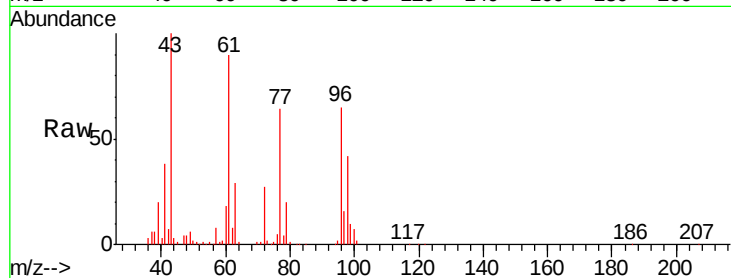
#25
2-Butanone
Concen: 108.219 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion: 43 Resp: 429426
Ion Ratio Lower Upper
43 100
72 27.2 21.0 31.6

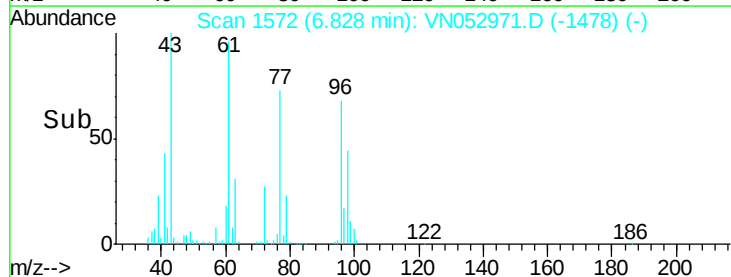
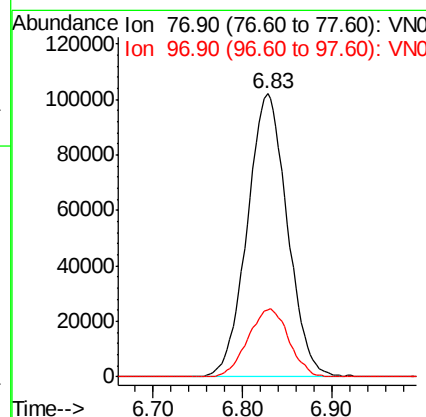
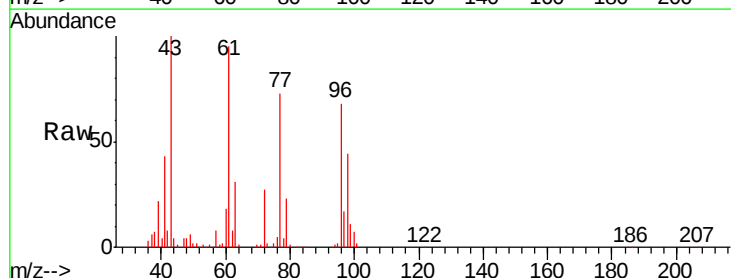
Manual Integrations
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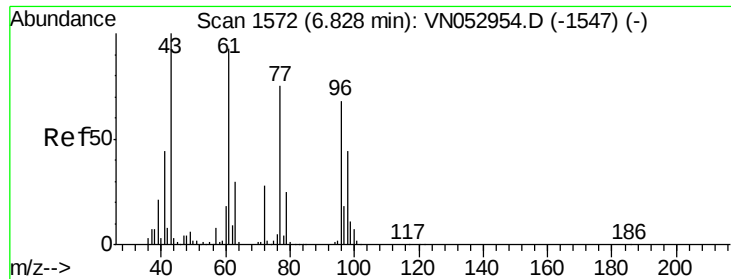
MMDadoda
12/19/2018 12:07:18 PM



#26
2,2-Dichloropropane
Concen: 18.768 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 77 Resp: 318815
Ion Ratio Lower Upper
77 100
97 24.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 20.609 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052971.D

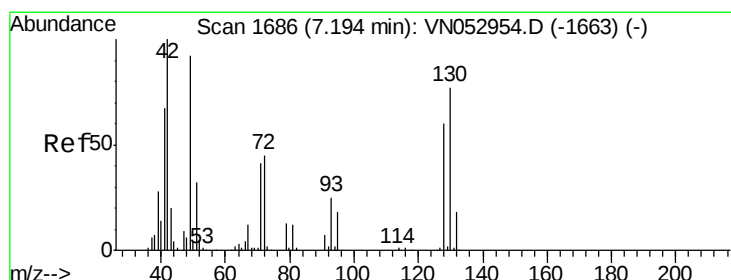
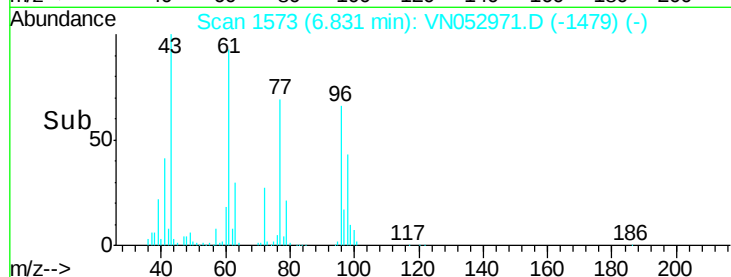
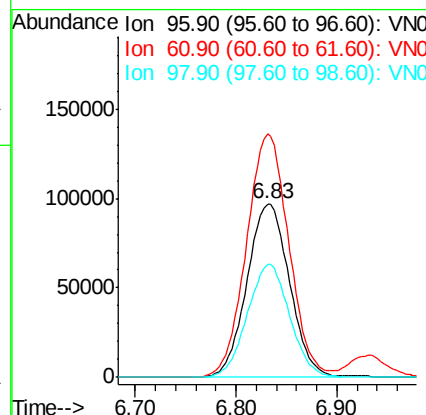
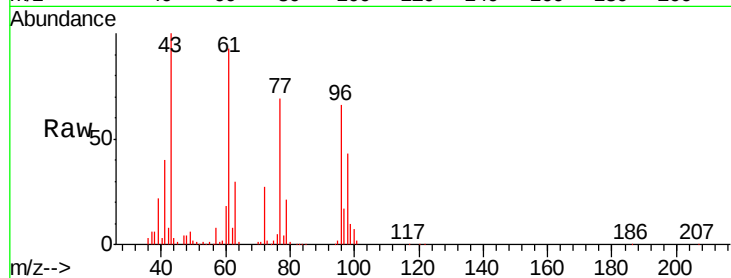
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	283925		
61	139.6	0.0	284.2	
98	64.9	0.0	129.2	

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#28

Bromochloromethane

Concen: 20.887 ug/l

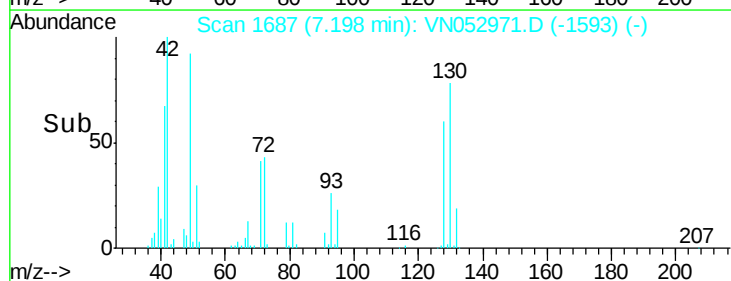
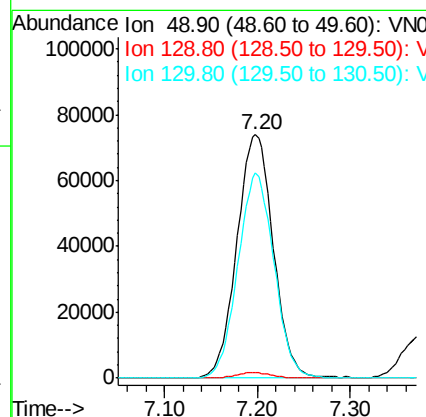
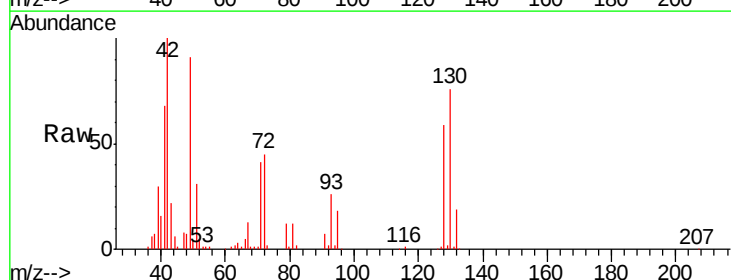
RT: 7.20 min Scan# 1687

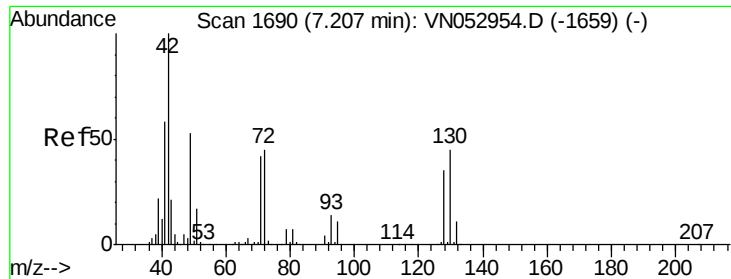
Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	201405		
129	2.1	0.0	4.0	
130	83.5	63.3	94.9	





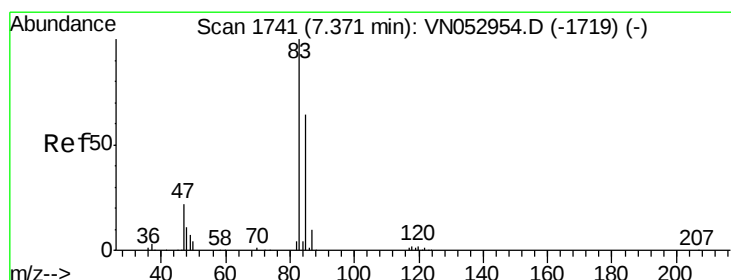
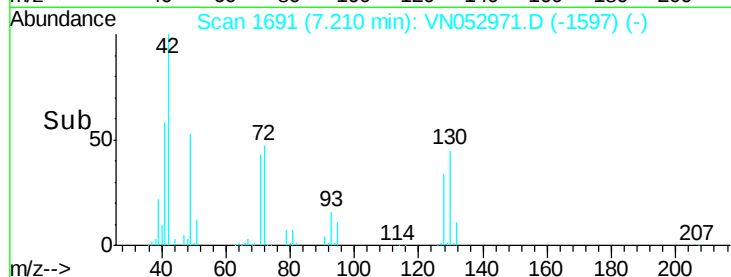
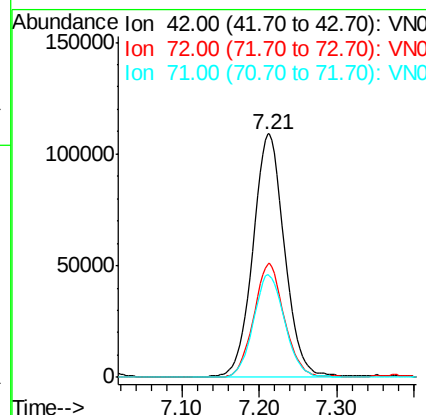
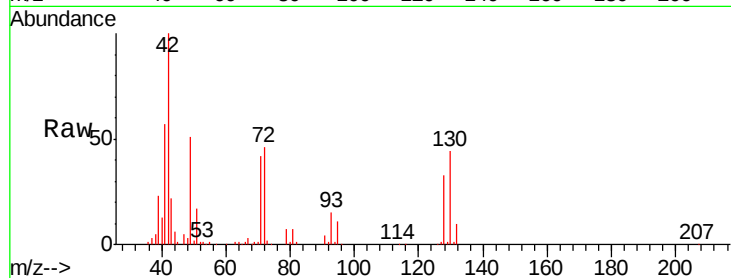
#29
Tetrahydrofuran
Concen: 105.302 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.3	34.7	52.1
71	41.6	32.3	48.5

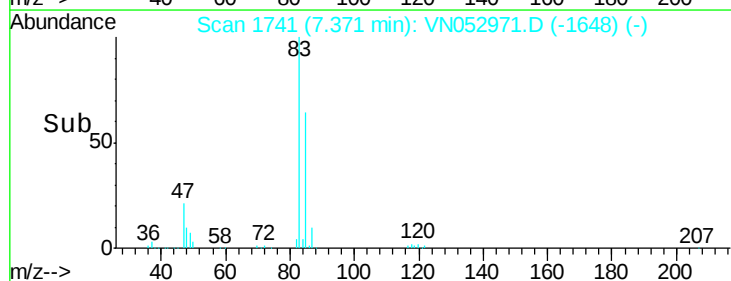
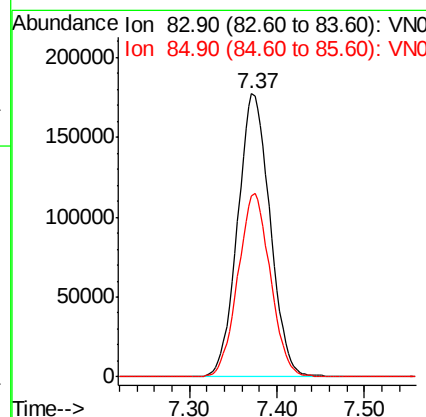
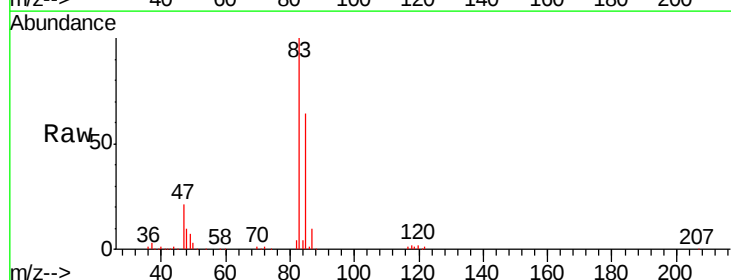
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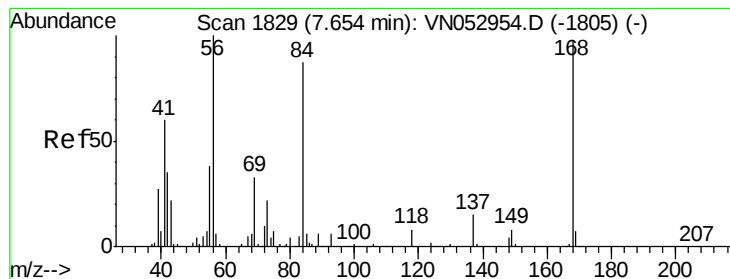
MMDadoda
12/19/2018 12:07:18 PM



#30
Chloroform
Concen: 20.864 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.1	78.1





#31

Cyclohexane

Concen: 20.863 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 56 Resp: 448209

Ion Ratio Lower Upper

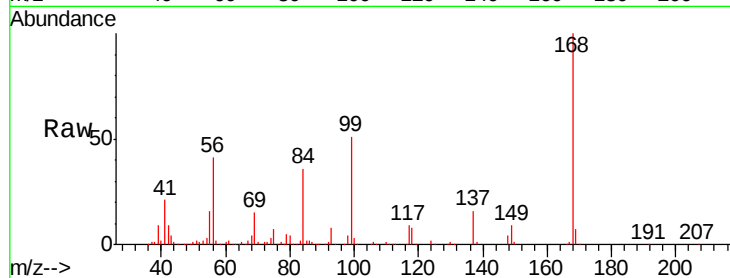
56 100

69 36.9 26.6 39.8

84 87.2 68.4 102.6

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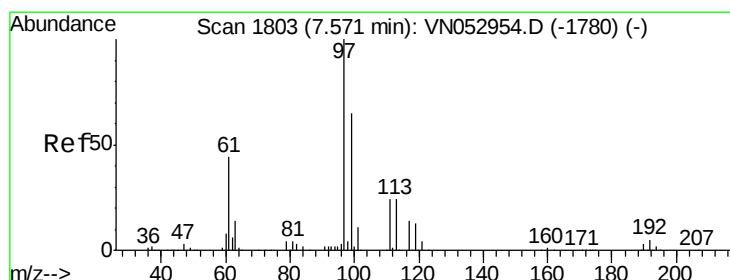
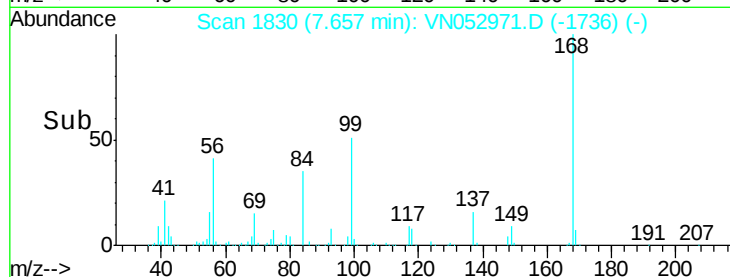
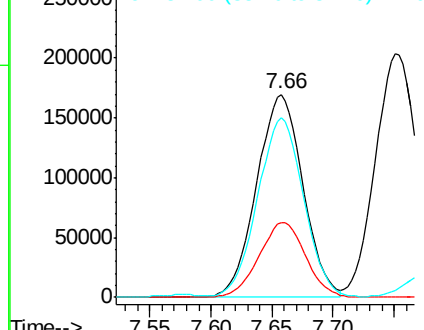
MMDadoda
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 20.304 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

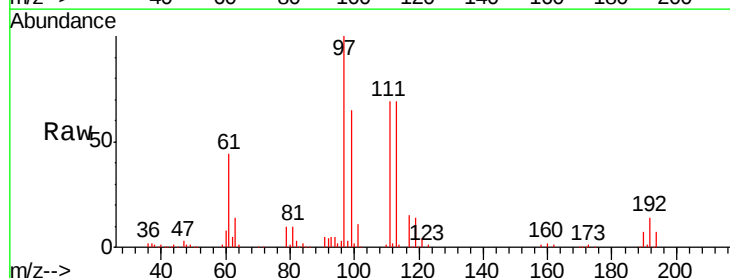
Tgt Ion: 97 Resp: 378102

Ion Ratio Lower Upper

97 100

99 65.0 51.1 76.7

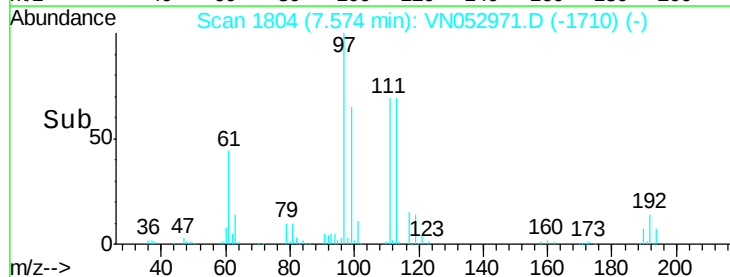
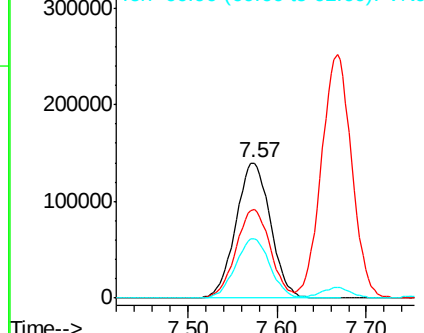
61 43.3 35.0 52.6

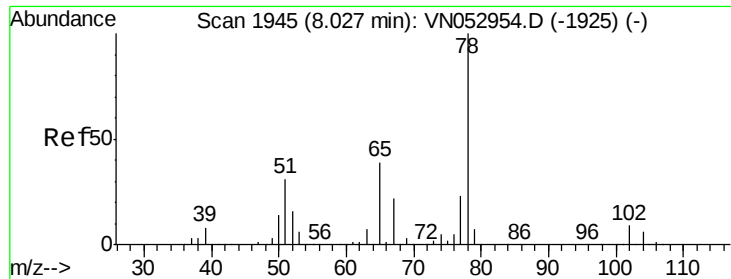


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





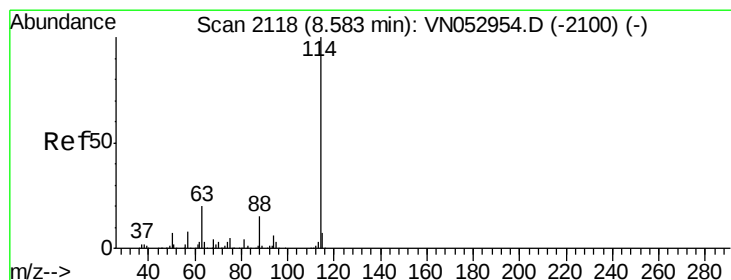
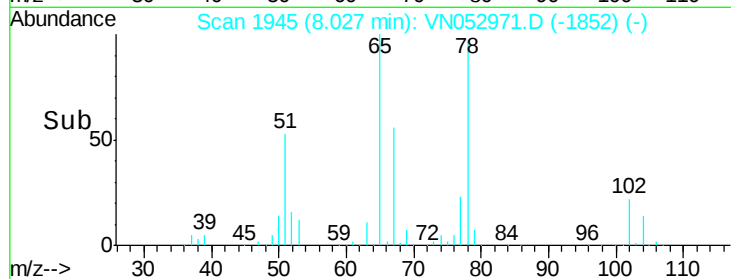
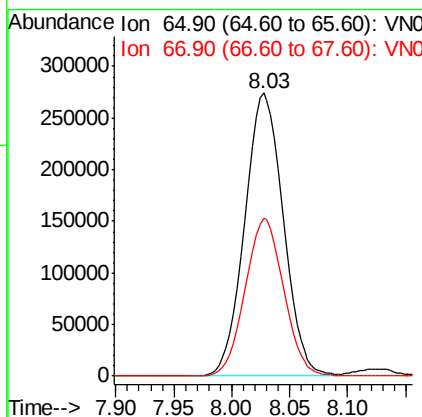
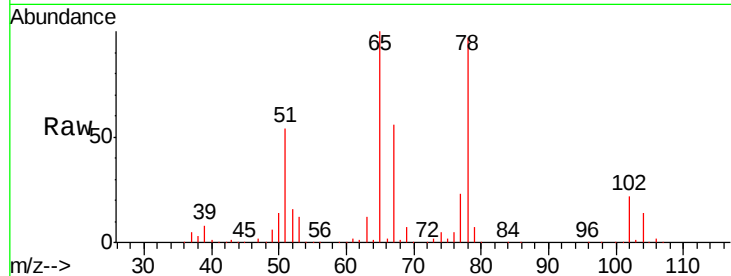
#33
 1,2-Dichloroethane-d4
 Concen: 20.304 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion: 65 Resp: 638009
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.4

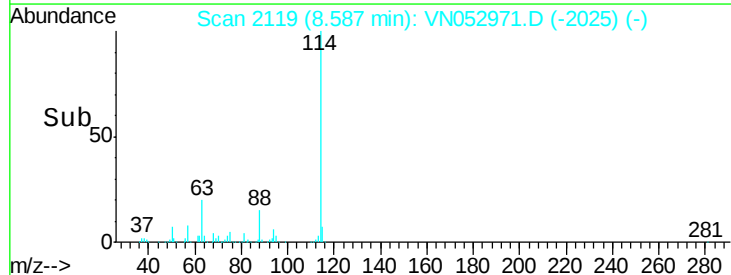
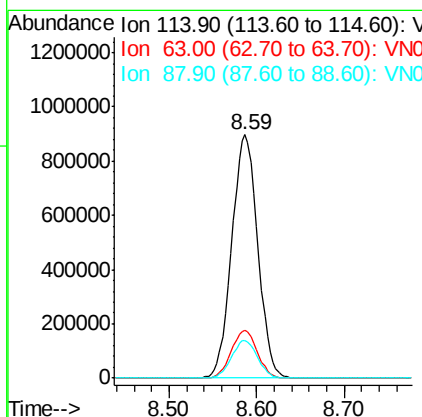
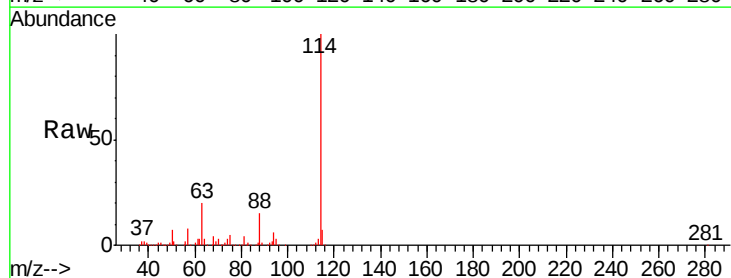
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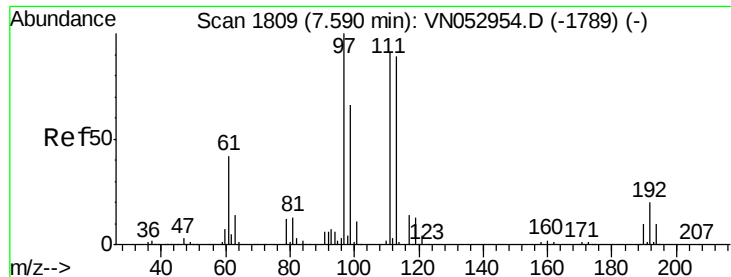
MMDadoda
 12/19/2018 12:07:18 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion: 114 Resp: 1849696
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.4 0.0 31.0





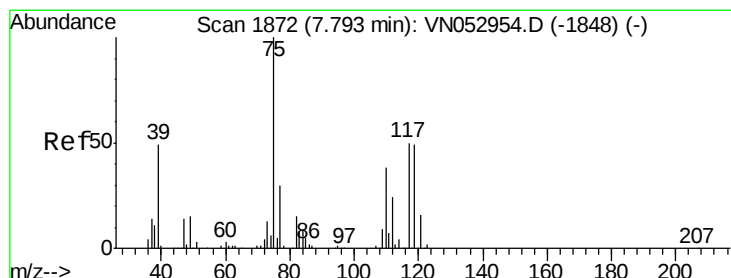
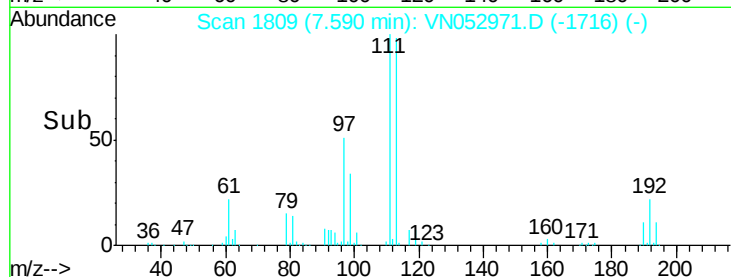
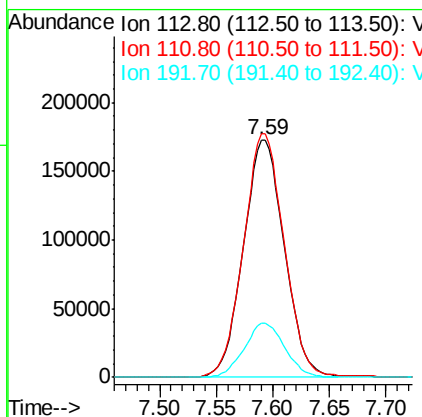
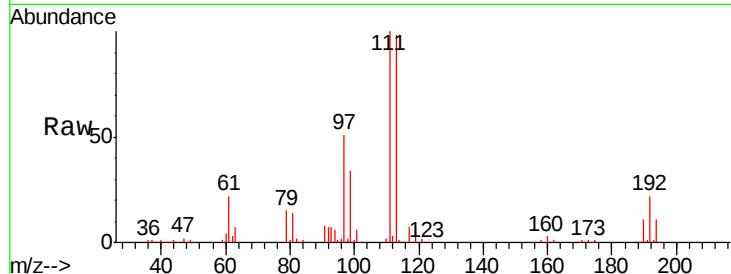
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	434630		
111	101.9	83.0	124.4	
192	22.7	17.5	26.3	

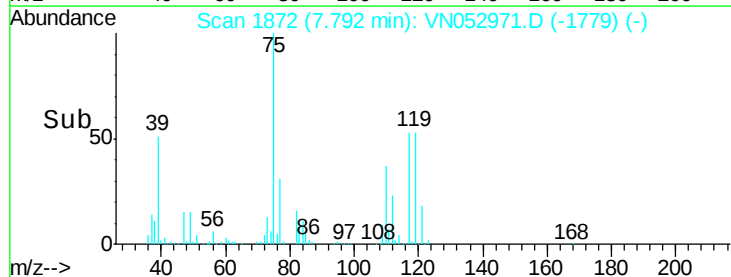
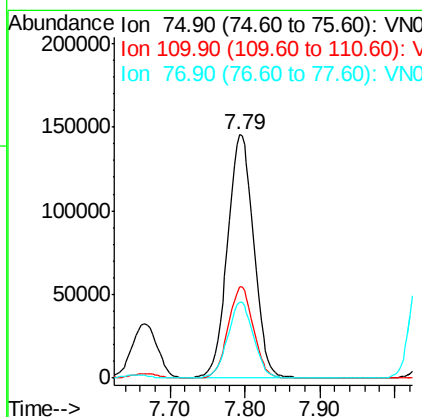
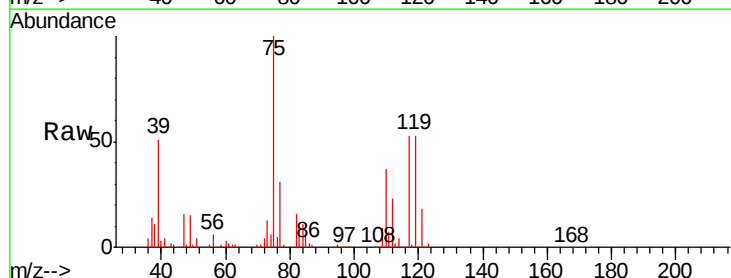
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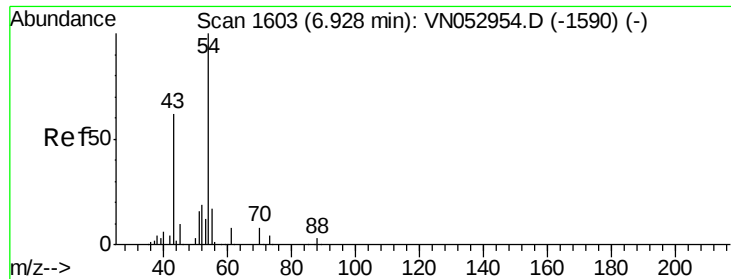
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 19.944 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	354077		
110	36.2	18.2	54.6	
77	30.8	24.9	37.3	





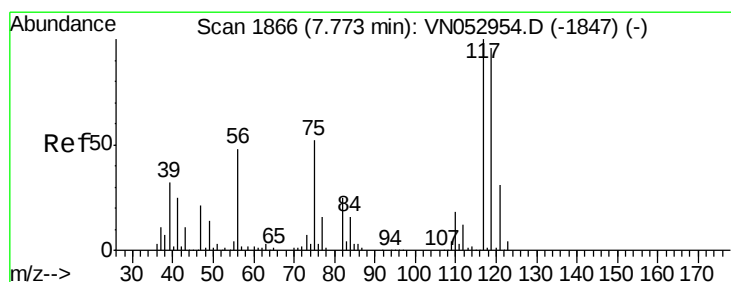
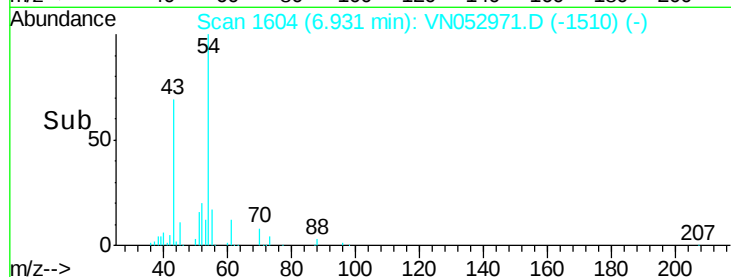
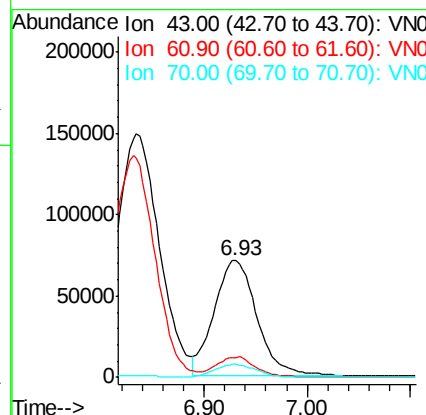
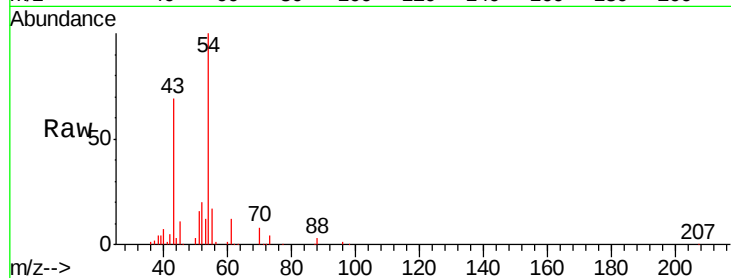
#37
Ethyl Acetate
Concen: 20.760 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.8	17.6
70	11.1	8.4	12.6

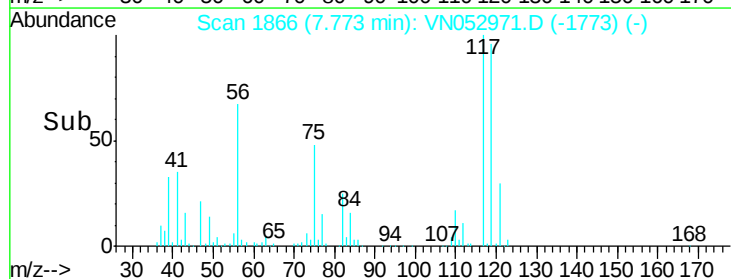
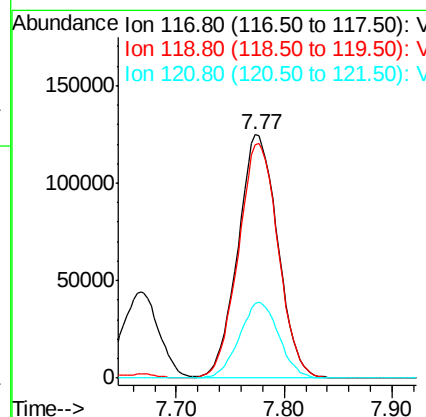
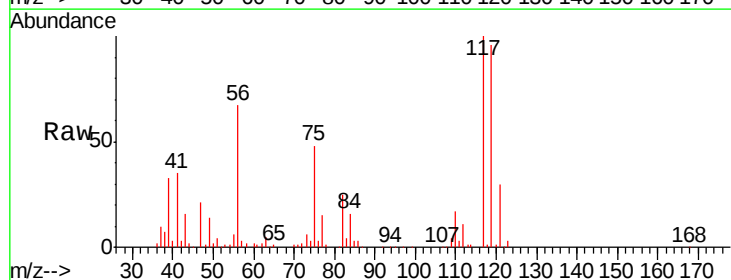
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 19.621 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.1	115.7
121	30.5	24.9	37.3





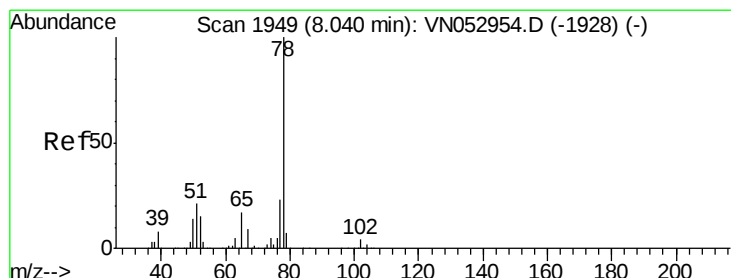
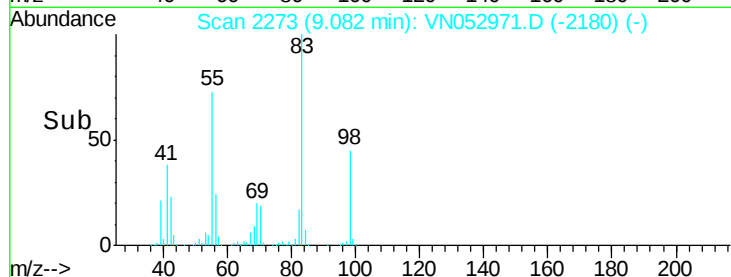
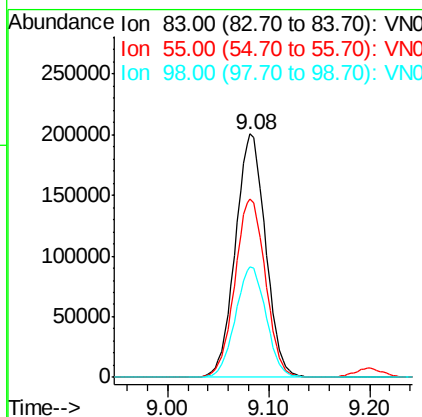
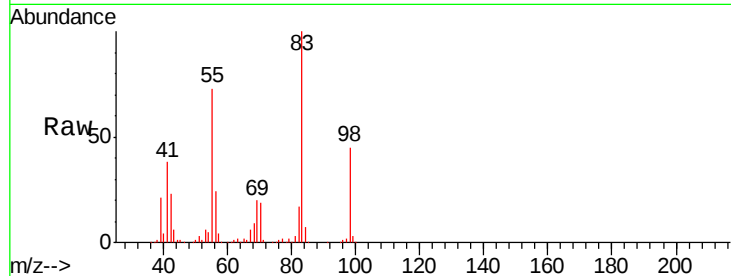
#39
Methylcyclohexane
Concen: 19.282 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.2	61.3	91.9
98	45.5	37.0	55.4

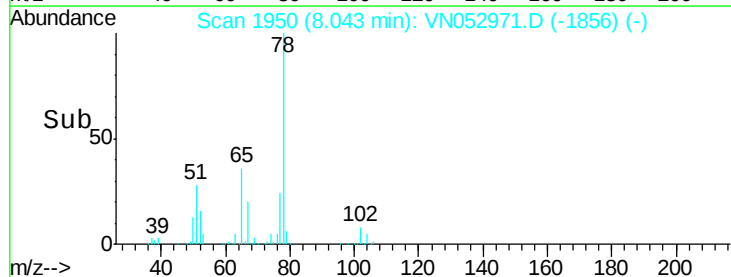
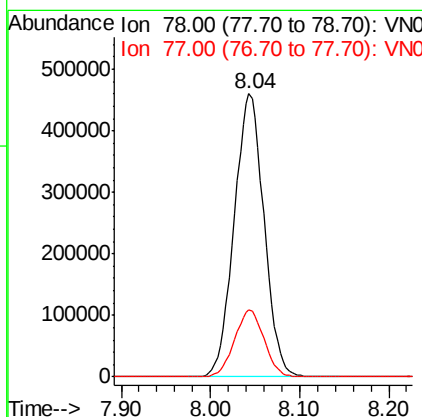
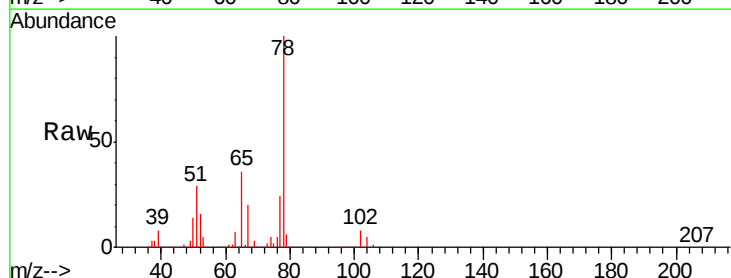
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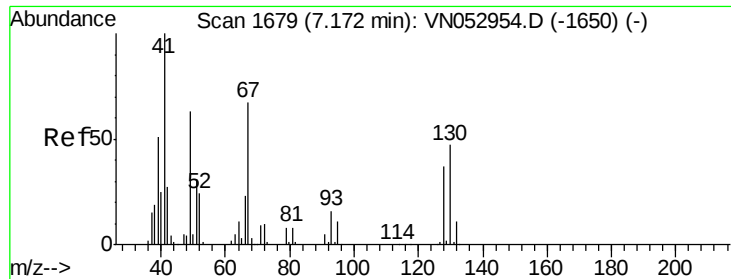
MMDadoda
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#40
Benzene
Concen: 20.243 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.5	27.7





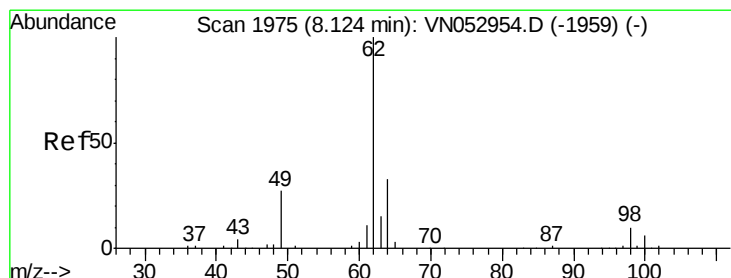
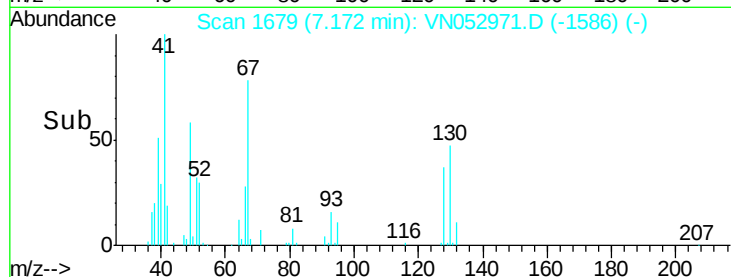
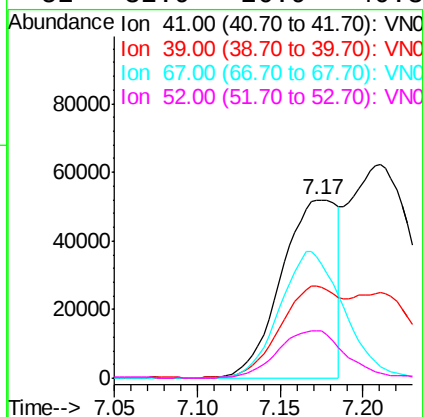
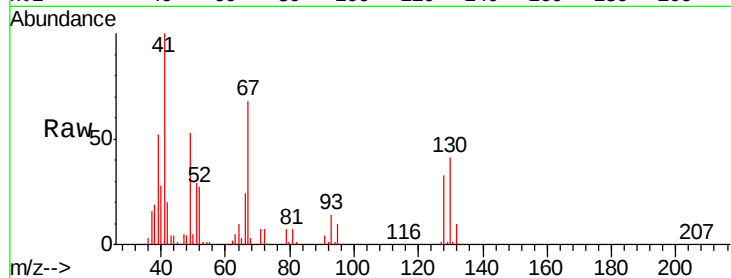
#41
Methacrylonitrile
Concen: 21.171 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	55.0	48.0	72.0
67	81.9	70.3	105.5
52	32.9	26.9	40.3

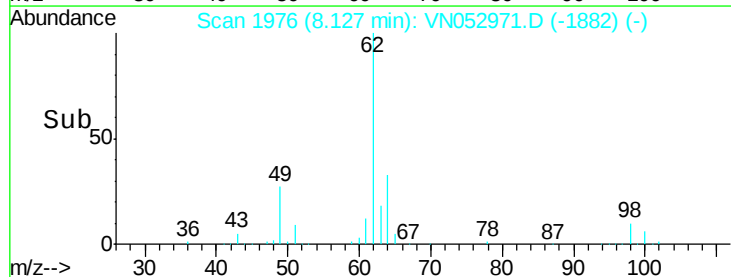
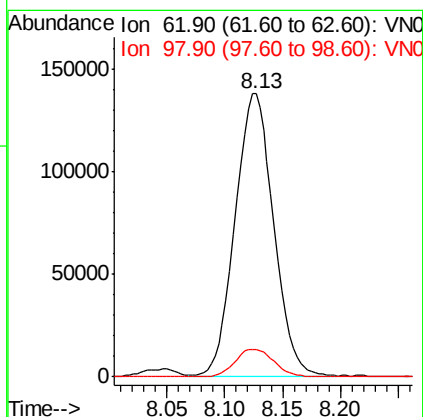
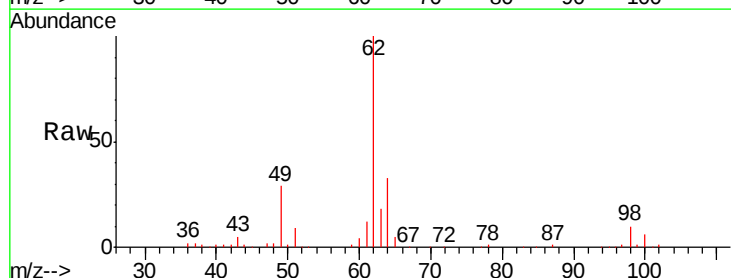
Manual Integrations
APPROVED

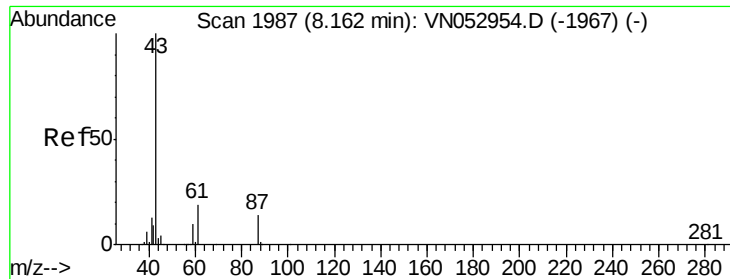
MMDadoda
12/19/2018 12:07:18 PM



#42
1,2-Dichloroethane
Concen: 20.312 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.0





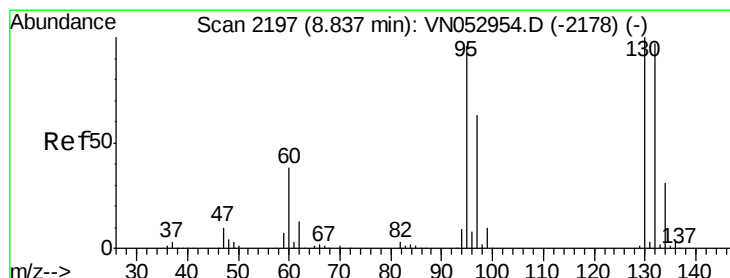
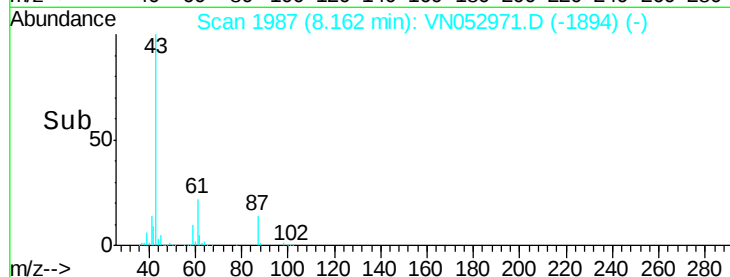
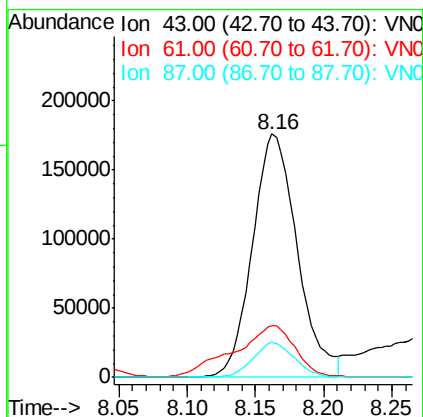
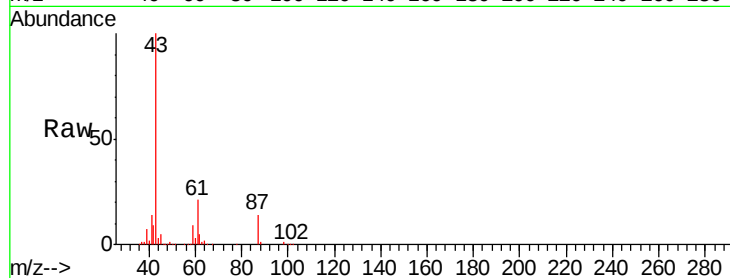
#43
Isopropyl Acetate
Concen: 20.212 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	28.8	22.9	34.3
87	13.4	10.6	15.8

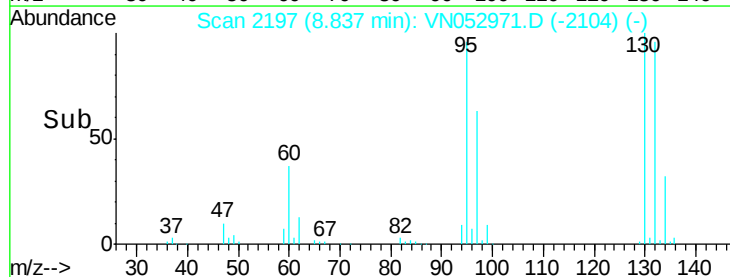
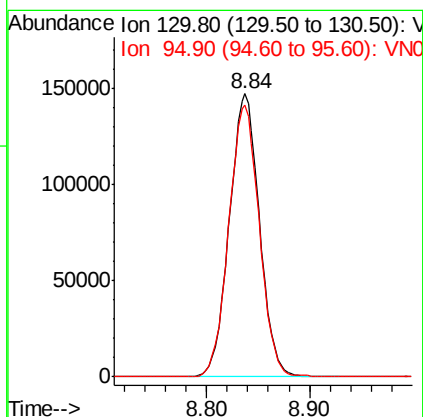
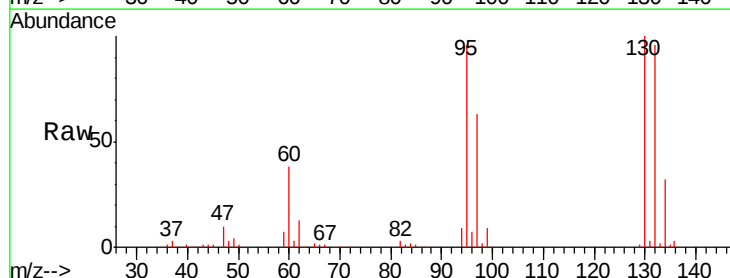
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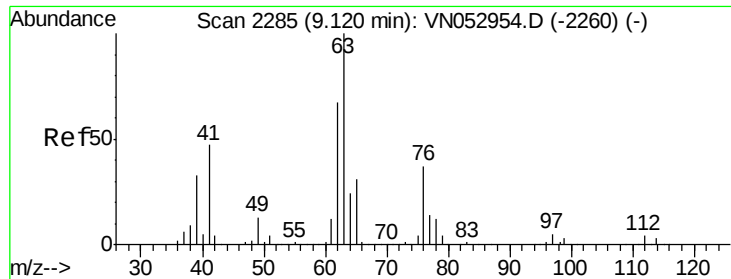
MMDadoda
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#44
Trichloroethene
Concen: 19.540 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	197.8





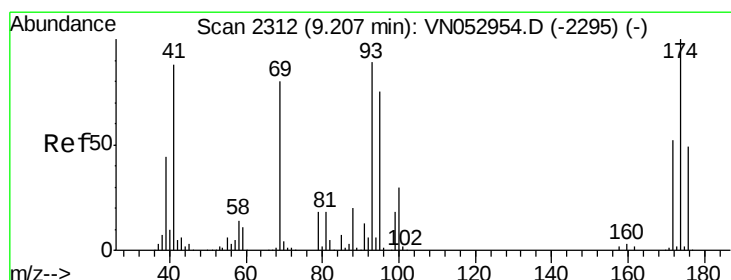
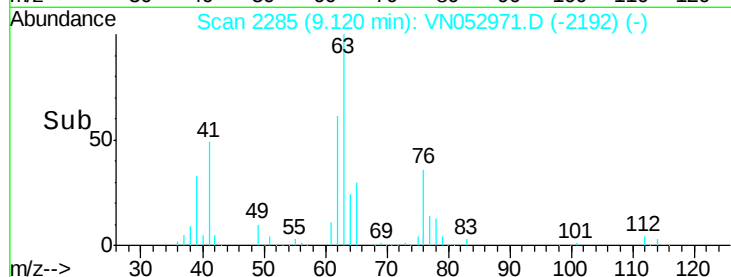
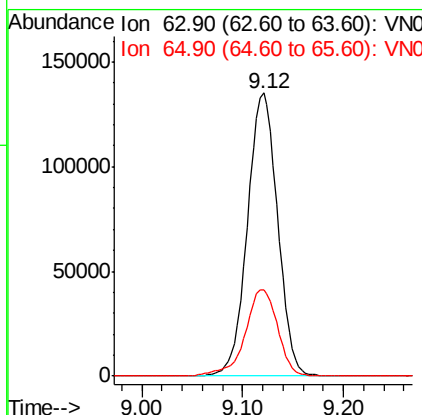
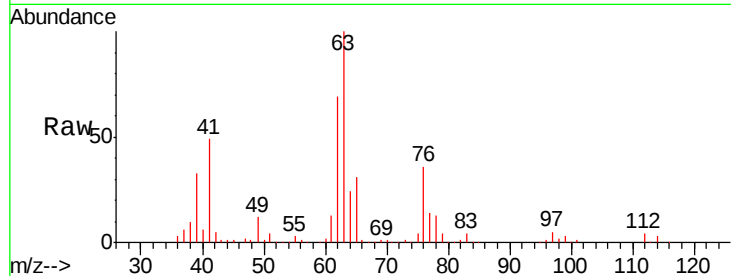
#45
 1,2-Dichloropropane
 Concen: 20.349 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion: 63 Resp: 279909
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.6 37.0

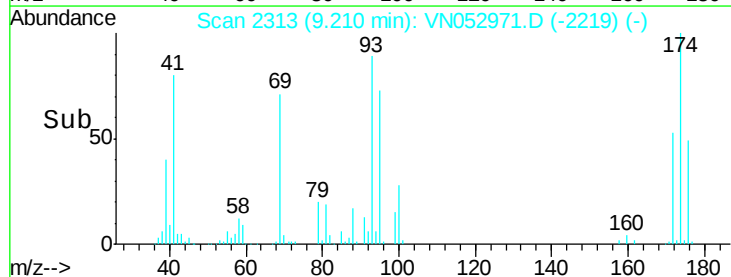
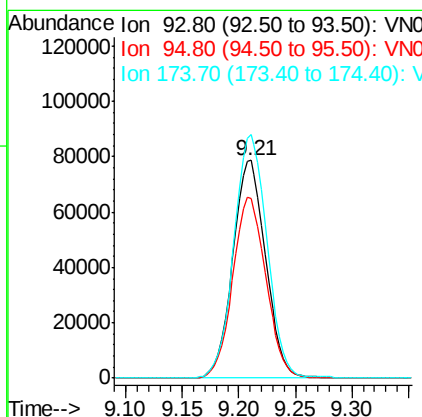
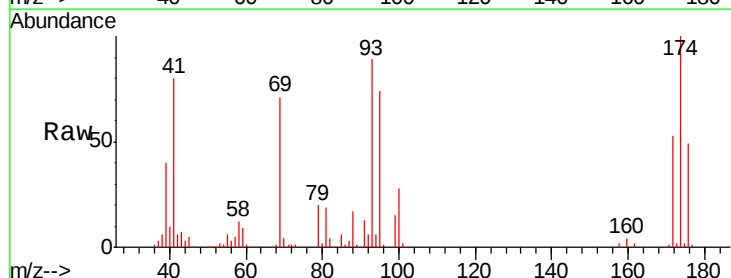
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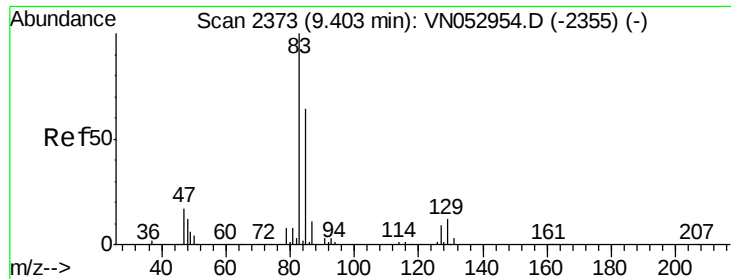
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#46
 Dibromomethane
 Concen: 19.906 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion: 93 Resp: 159504
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.8 101.6
 174 112.7 89.0 133.4





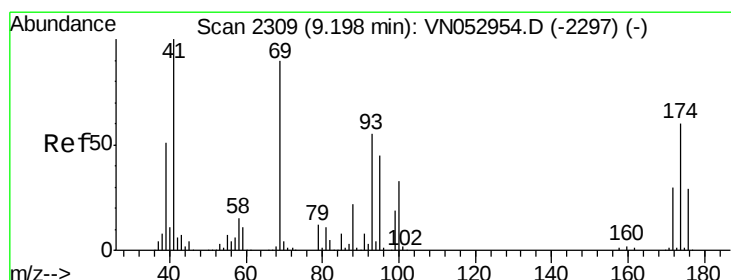
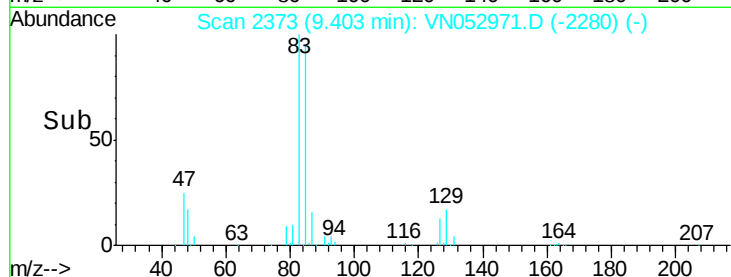
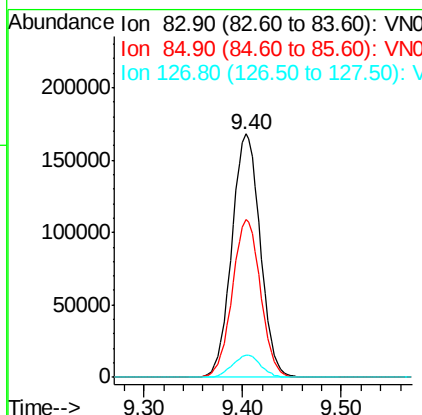
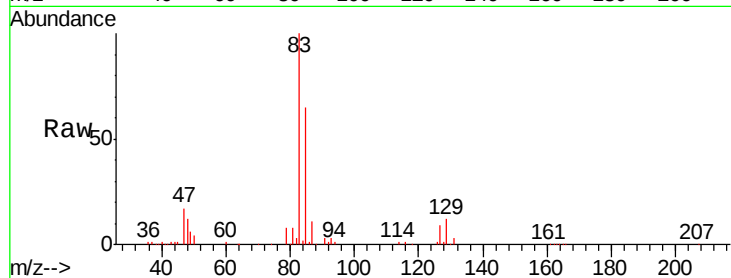
#47
Bromodichloromethane
Concen: 19.801 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.6	77.4
127	8.9	7.1	10.7

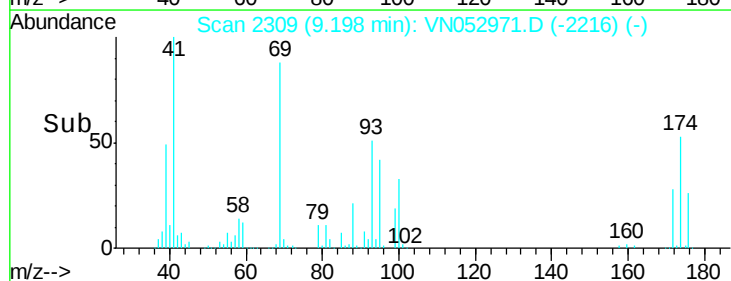
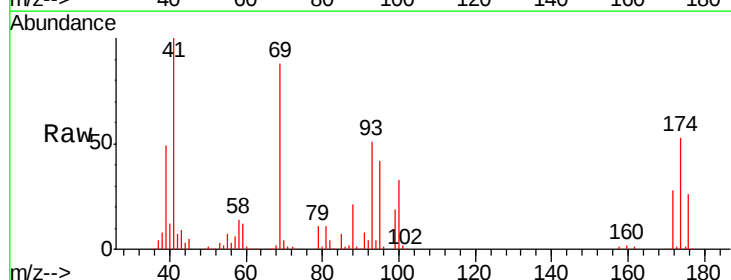
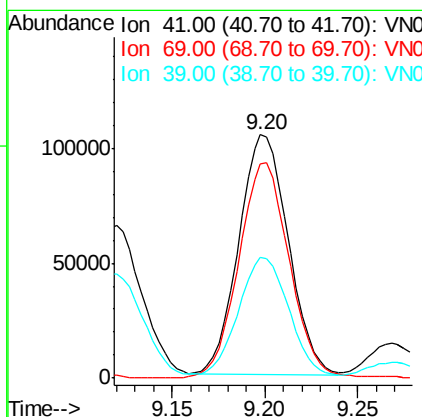
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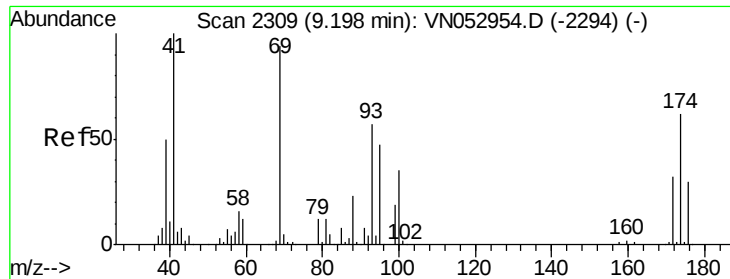
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#48
Methyl methacrylate
Concen: 20.006 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
41	100		
69	92.3	72.2	108.2
39	52.0	41.9	62.9





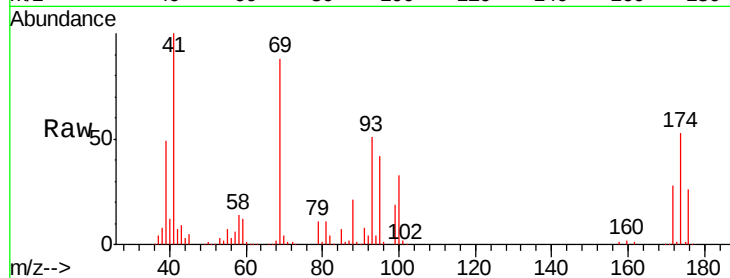
#49
1,4-Dioxane
Concen: 370.528 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

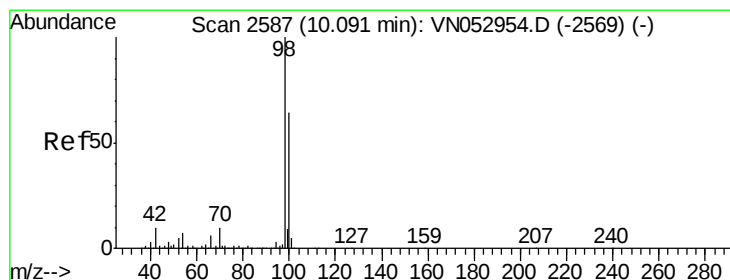
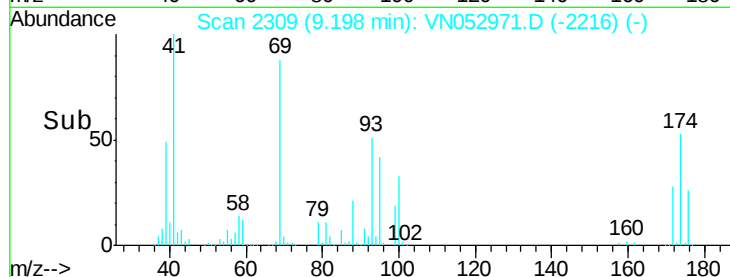
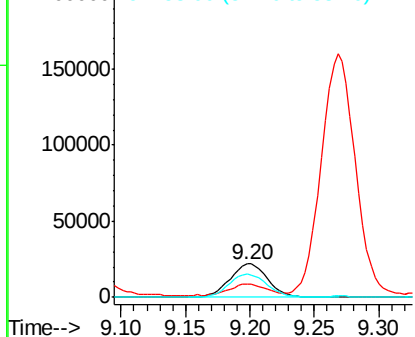
Tgt Ion: 88 Resp: 45077
Ion Ratio Lower Upper
88 100
43 32.9 26.6 40.0
58 70.6 58.4 87.6

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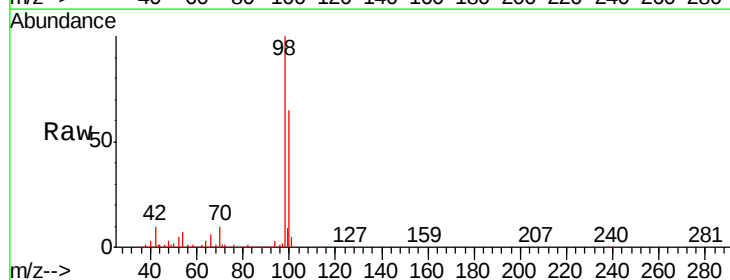


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

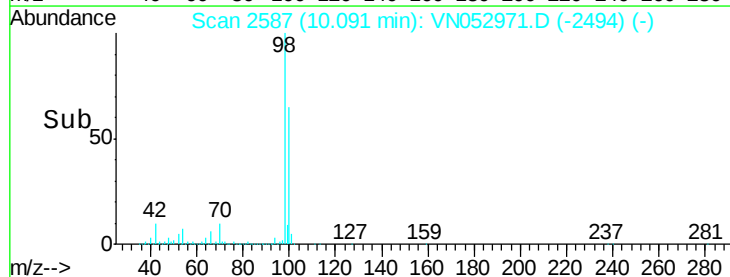
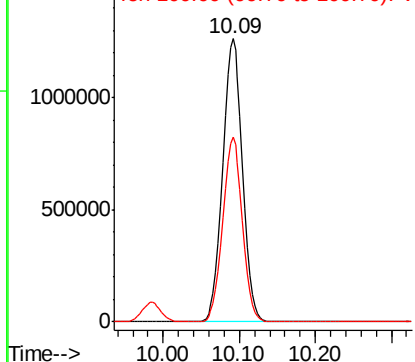


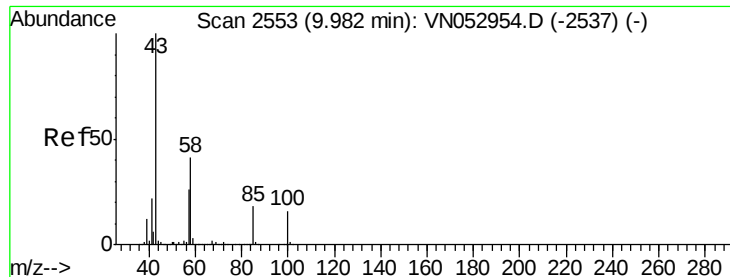
#50
Toluene-d8
Concen: 370.528 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 98 Resp: 2286837
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





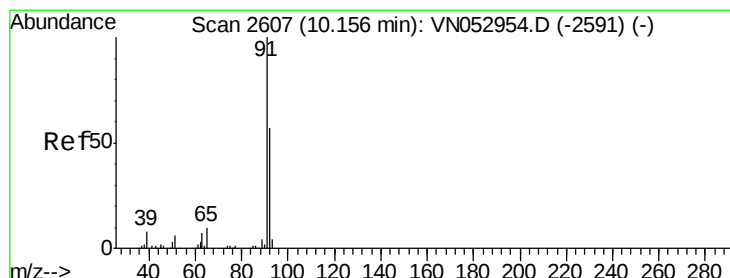
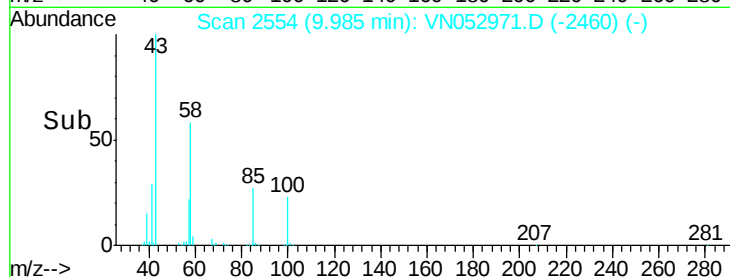
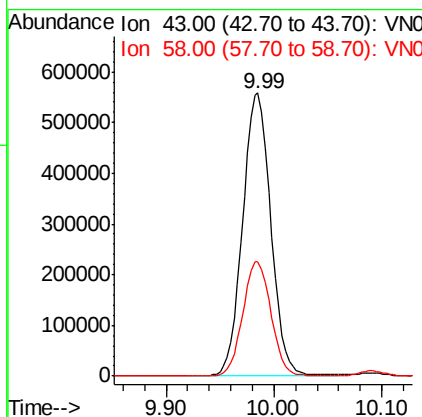
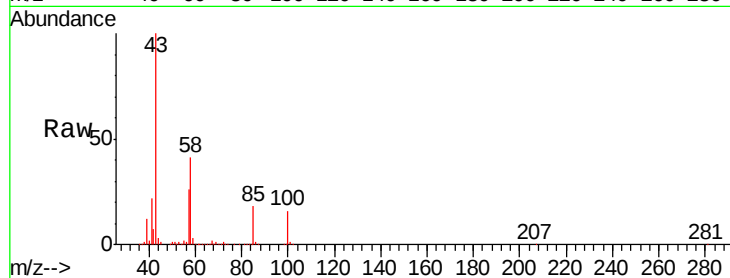
#51
 4-Methyl-2-Pentanone
 Concen: 105.271 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion: 43 Resp: 1010400
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.2 48.4

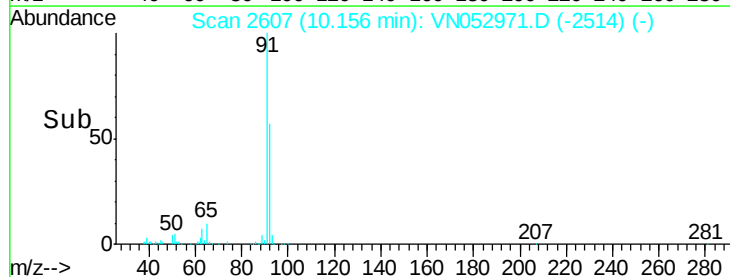
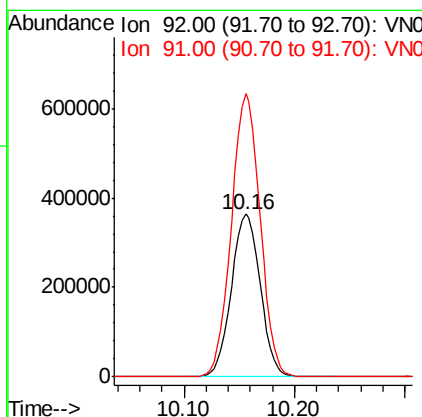
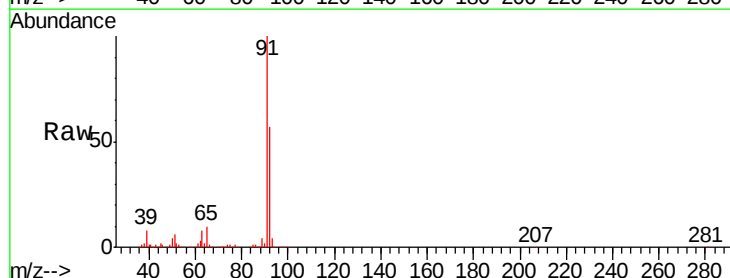
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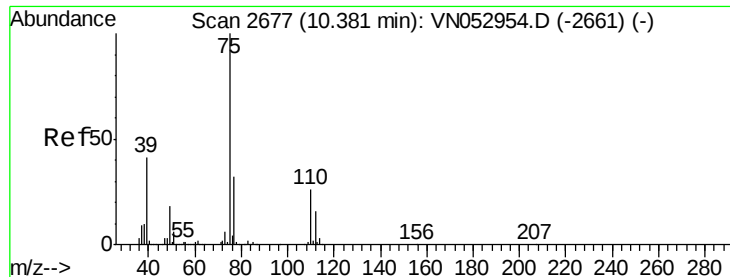
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 12/19/2018 12:07:18 PM



#52
 Toluene
 Concen: 20.145 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion: 92 Resp: 659384
 Ion Ratio Lower Upper
 92 100
 91 173.7 139.8 209.6





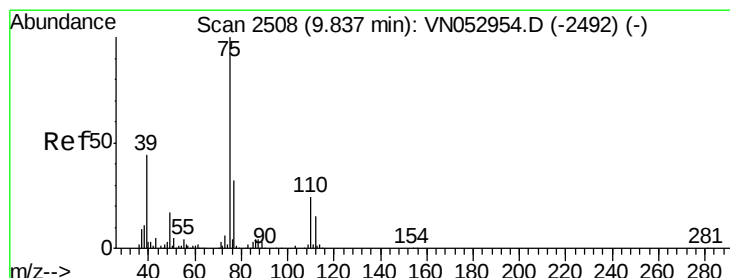
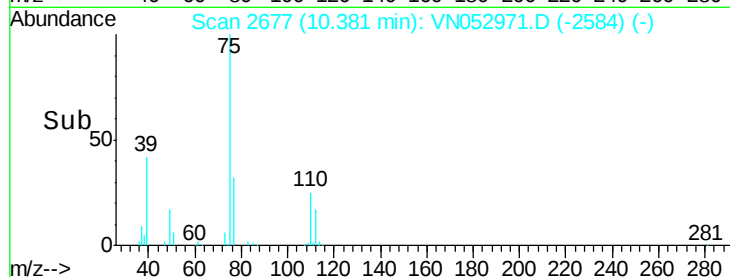
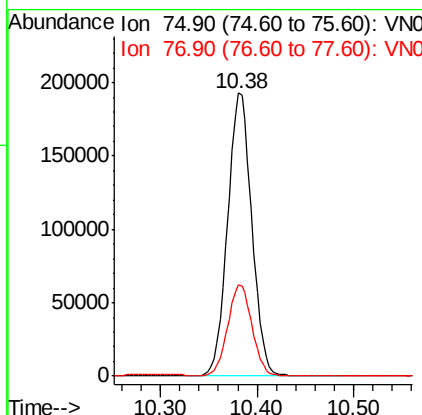
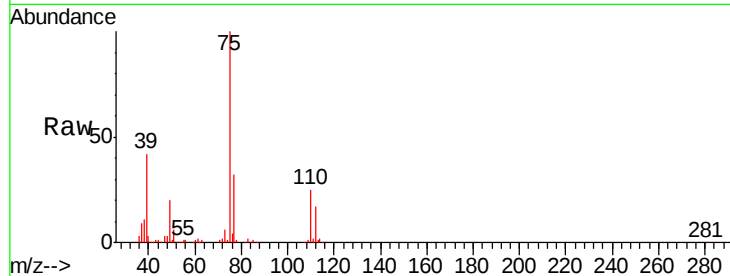
#53
t-1,3-Dichloropropene
Concen: 18.709 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion: 75 Resp: 335085
Ion Ratio Lower Upper
75 100
77 32.0 25.6 38.4

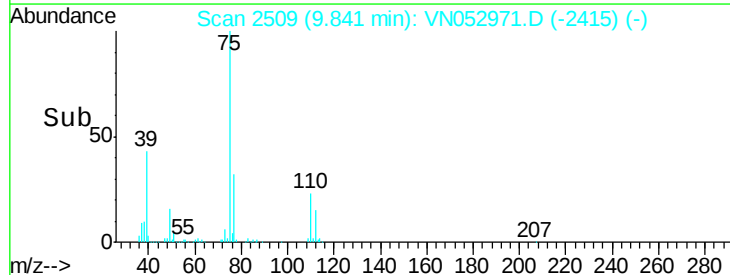
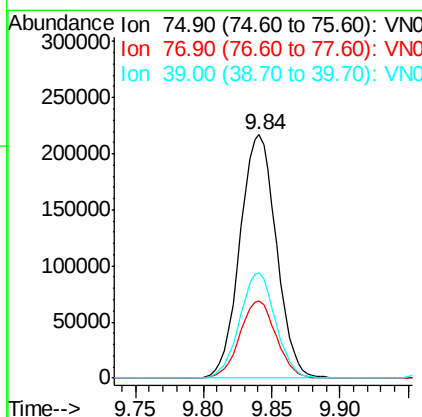
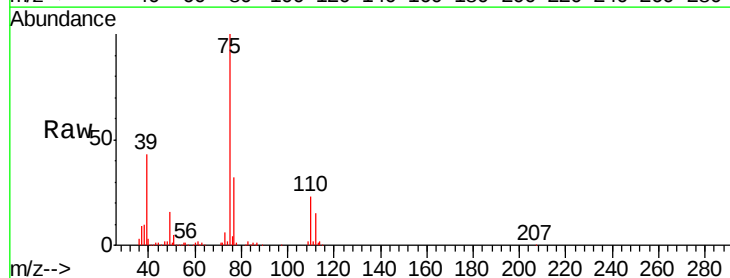
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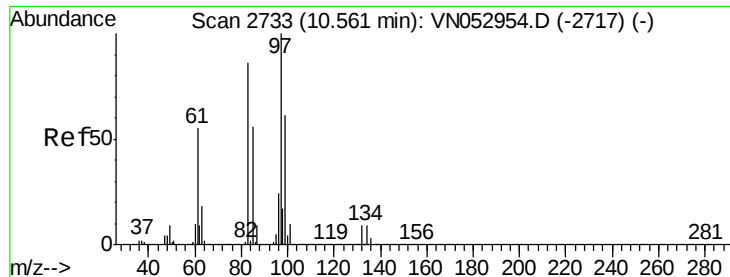
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12/19/2018 12:07:18 PM



#54
cis-1,3-Dichloropropene
Concen: 19.556 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 75 Resp: 402042
Ion Ratio Lower Upper
75 100
77 31.7 25.8 38.8
39 43.2 34.8 52.2





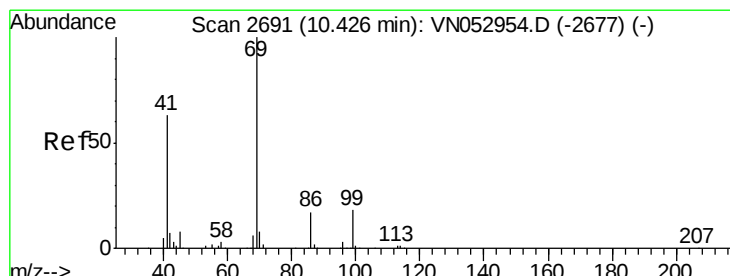
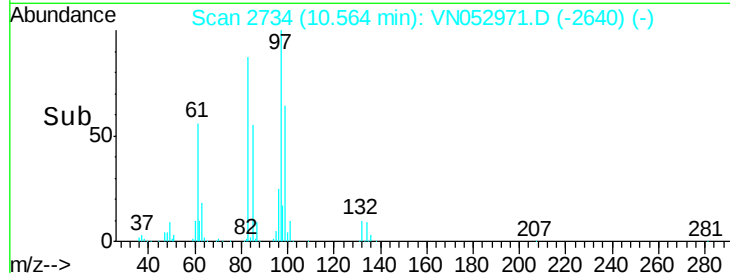
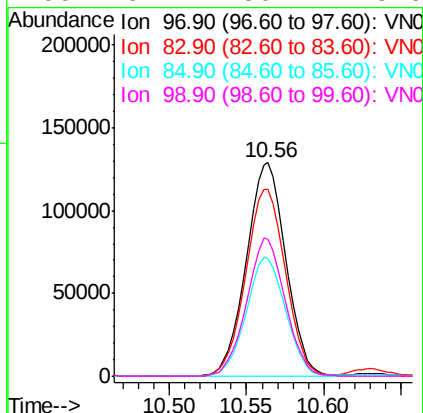
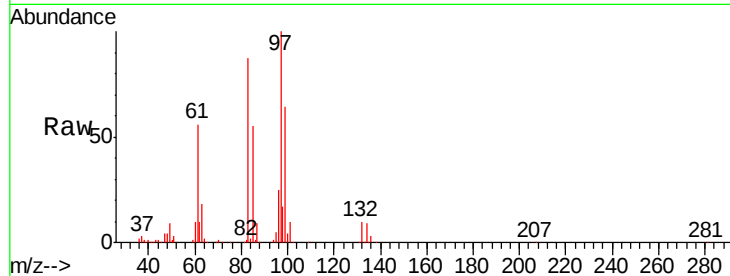
#55
 1,1,2-Trichloroethane
 Concen: 20.112 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.3	70.9	106.3
85	55.3	45.4	68.2
99	64.4	50.4	75.6

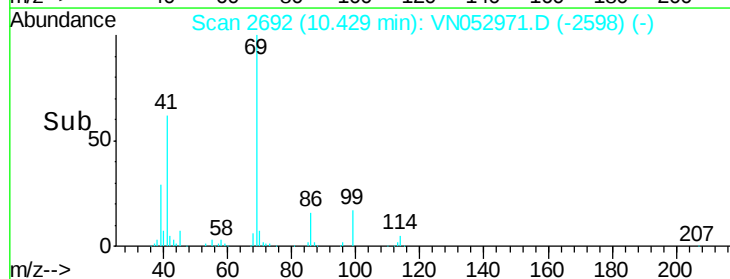
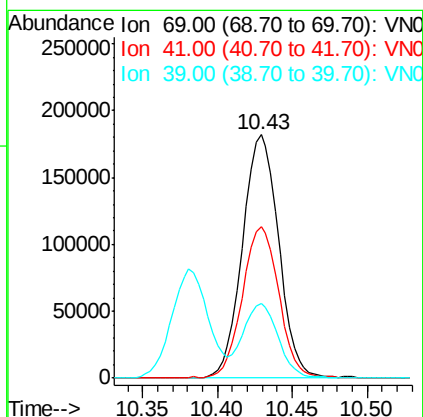
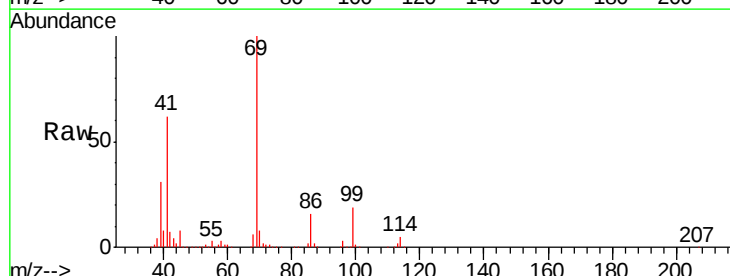
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#56
 Ethyl methacrylate
 Concen: 20.335 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.1	51.7	77.5
39	29.9	24.6	37.0





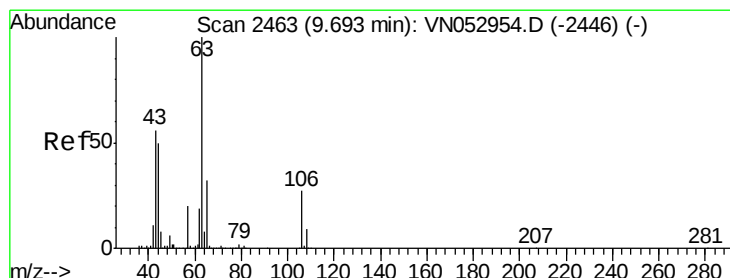
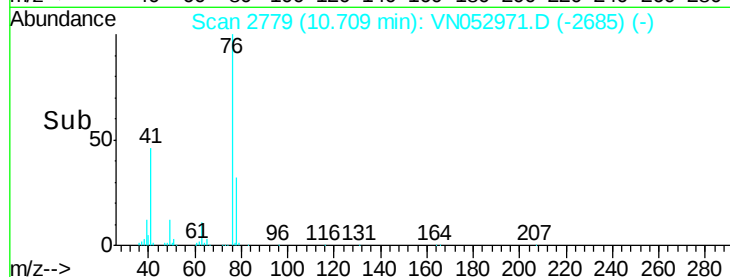
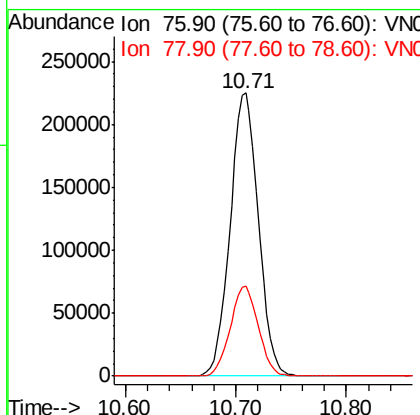
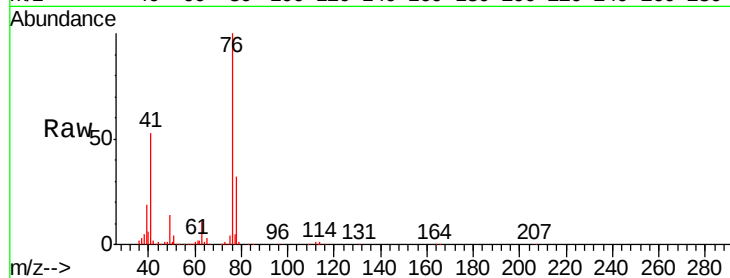
#57
 1,3-Dichloropropane
 Concen: 20.350 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion: 76 Resp: 398502
 Ion Ratio Lower Upper
 76 100
 78 31.6 25.8 38.8

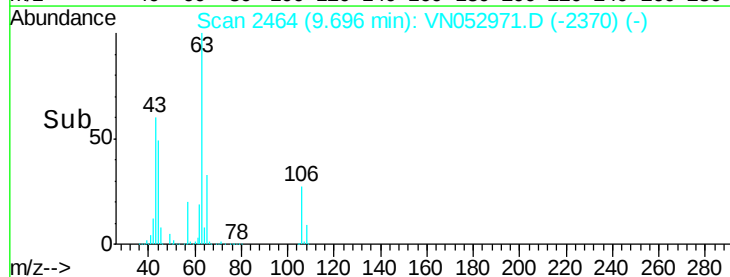
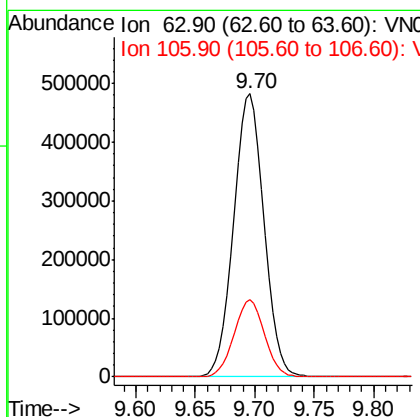
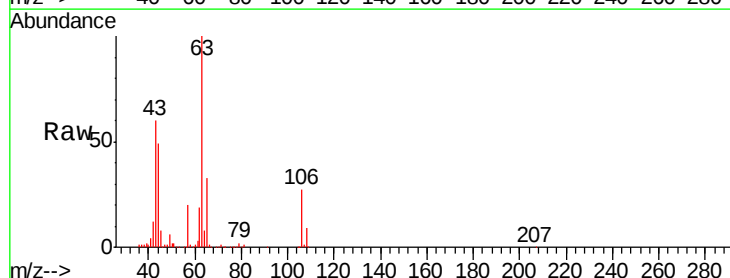
Manual Integrations
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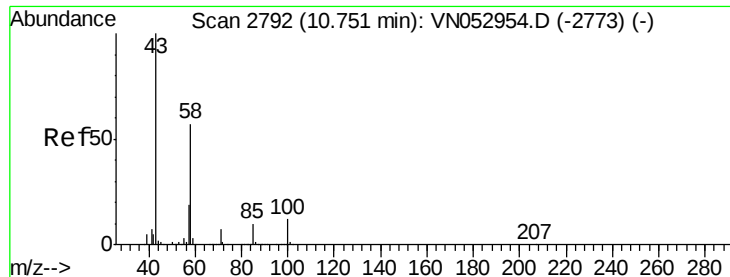
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#58
 2-Chloroethyl Vinyl ether
 Concen: 102.915 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion: 63 Resp: 853970
 Ion Ratio Lower Upper
 63 100
 106 27.3 21.0 31.6





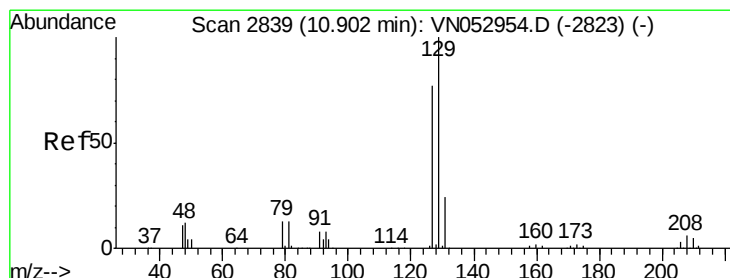
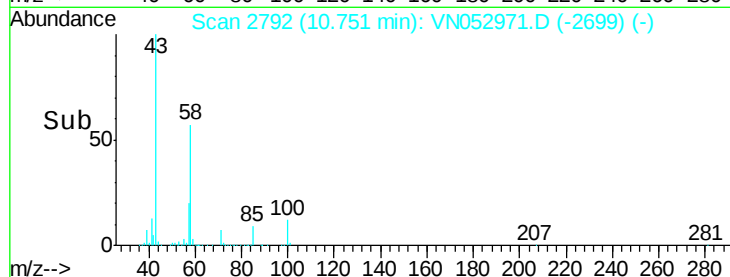
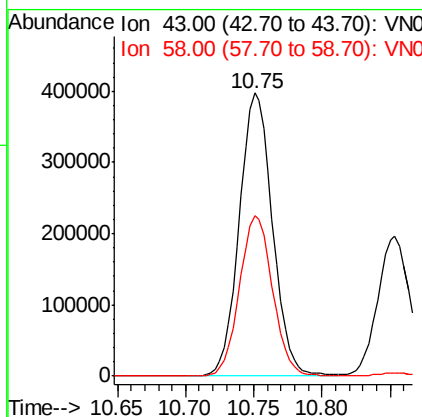
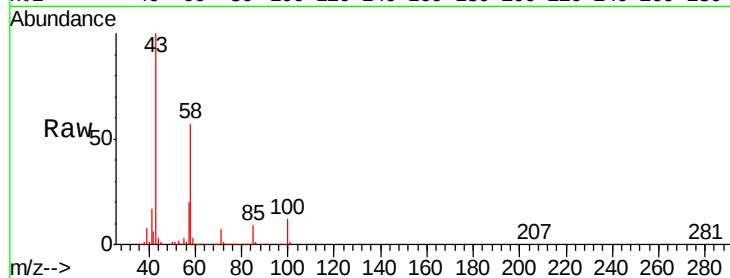
#59
2-Hexanone
Concen: 102.936 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion: 43 Resp: 668458
Ion Ratio Lower Upper
43 100
58 56.8 28.1 84.3

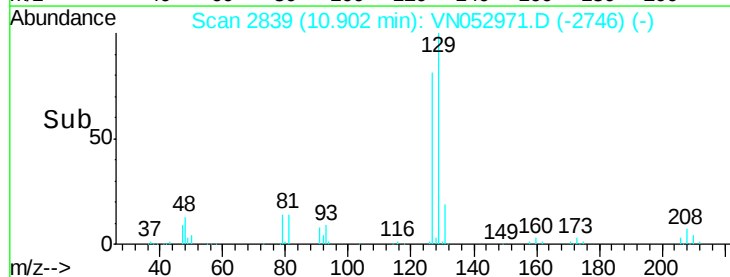
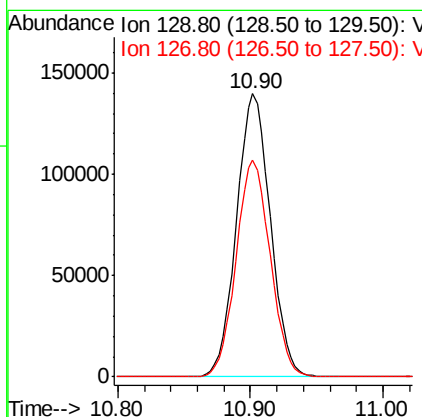
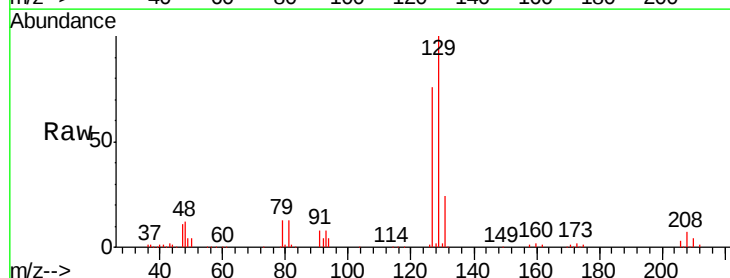
Manual Integrations
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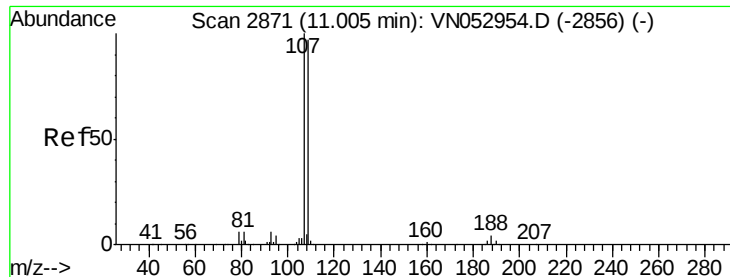
MMDadoda
12/19/2018 12:07:18 PM



#60
Dibromochloromethane
Concen: 18.962 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion: 129 Resp: 247852
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.677 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 107 Resp: 228201

Ion Ratio Lower Upper

107 100

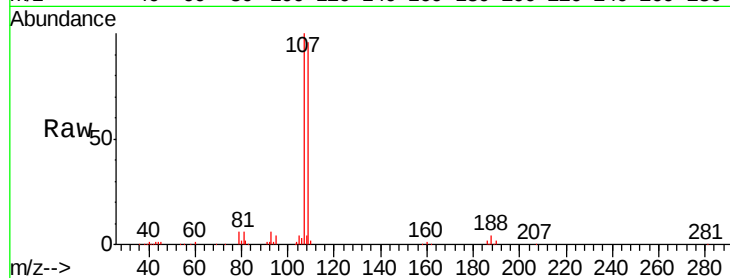
109 95.1 75.4 113.0

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

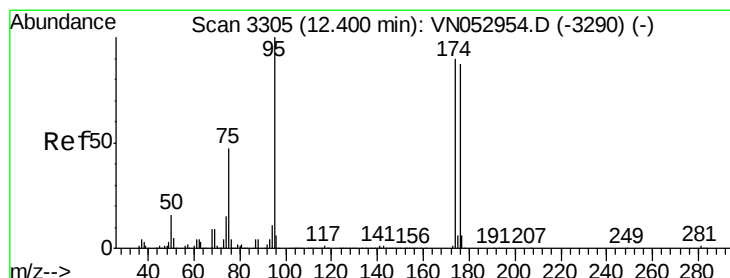
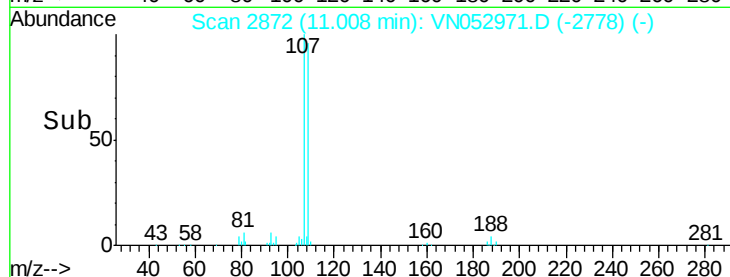
11.01

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.677 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

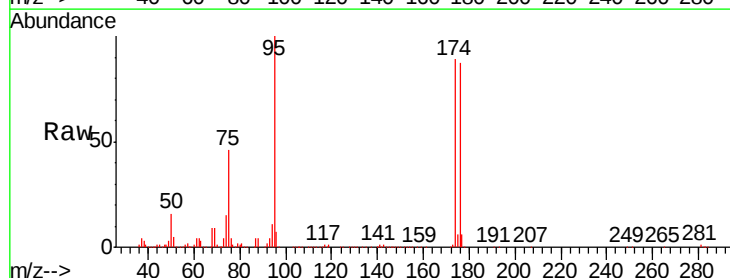
Tgt Ion: 95 Resp: 742757

Ion Ratio Lower Upper

95 100

174 89.5 0.0 178.8

176 87.0 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

600000

500000

400000

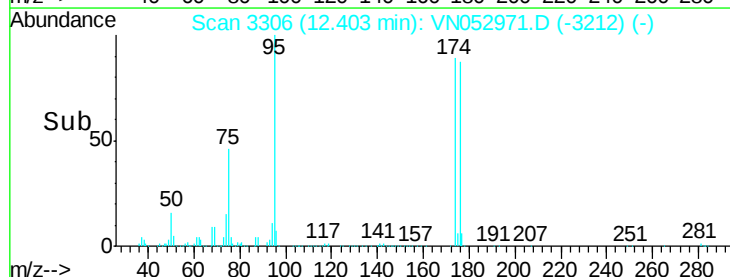
300000

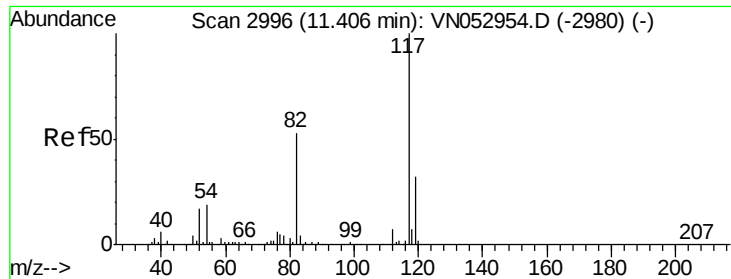
200000

100000

0

Time-->





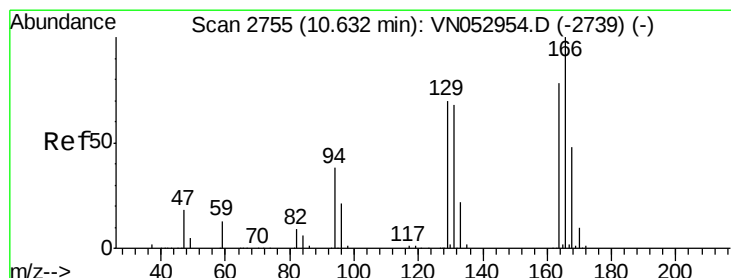
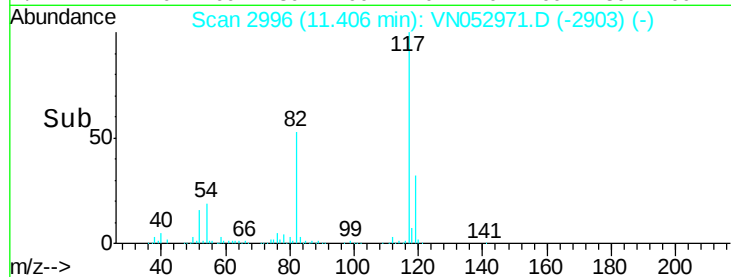
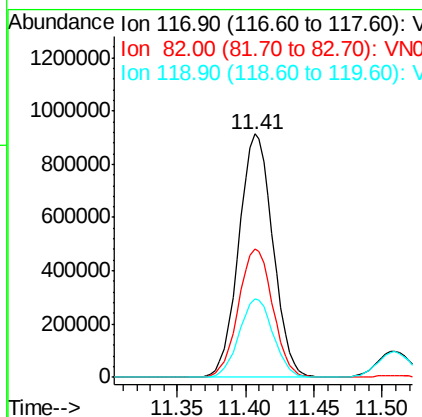
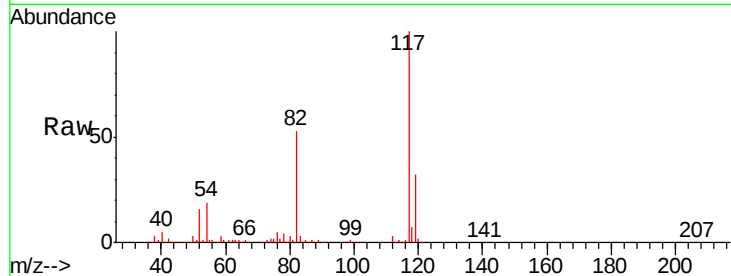
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion:117 Resp: 1586739
Ion Ratio Lower Upper
117 100
82 52.8 42.8 64.2
119 32.1 25.5 38.3

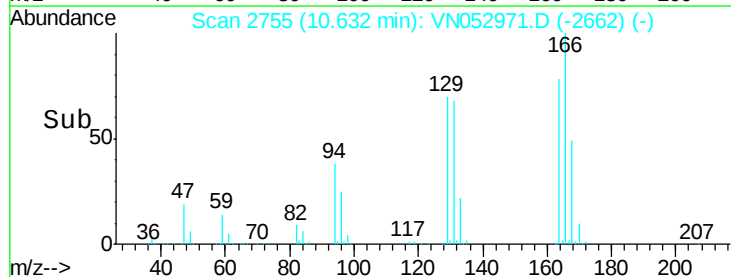
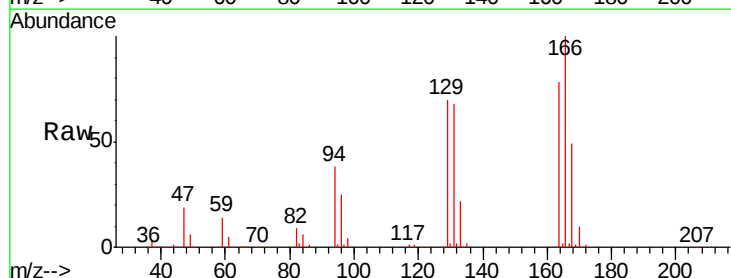
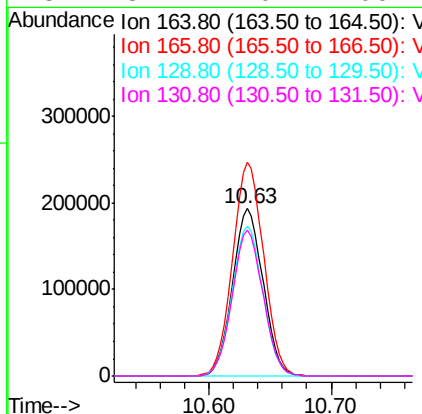
Manual Integrations
APPROVED

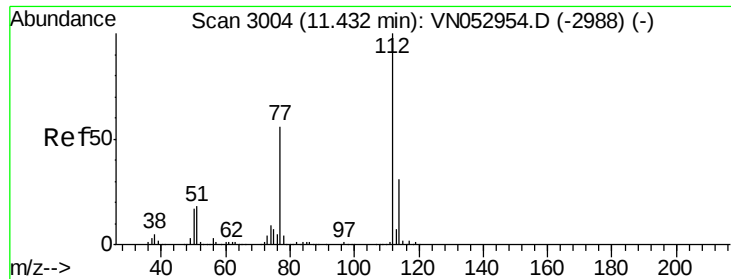
MMDadoda
12/19/2018 12:07:18 PM



#64
Tetrachloroethene
Concen: 19.570 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion:164 Resp: 336367
Ion Ratio Lower Upper
164 100
166 127.5 102.9 154.3
129 89.8 73.7 110.5
131 87.1 70.7 106.1





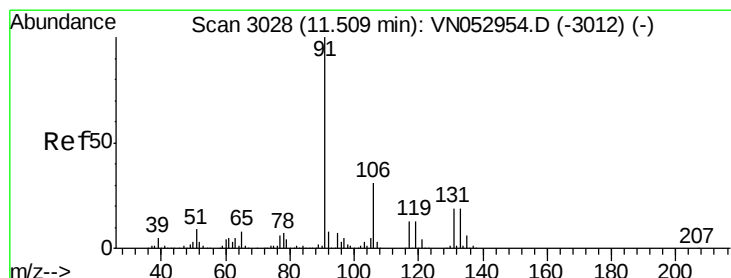
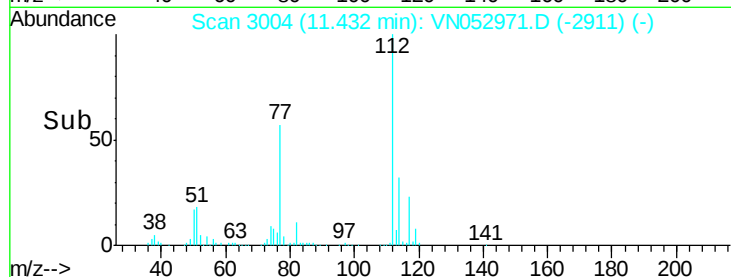
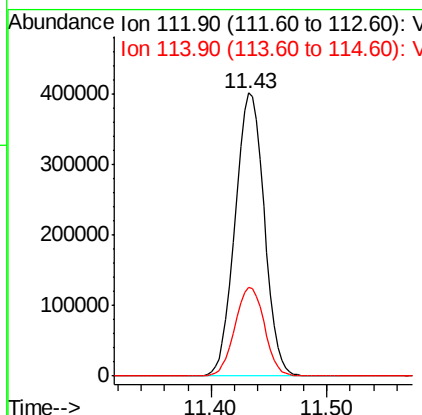
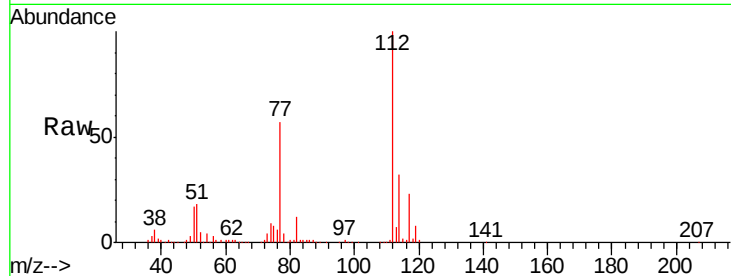
#65
Chlorobenzene
Concen: 19.848 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion:112 Resp: 698141
Ion Ratio Lower Upper
112 100
114 31.6 25.5 38.3

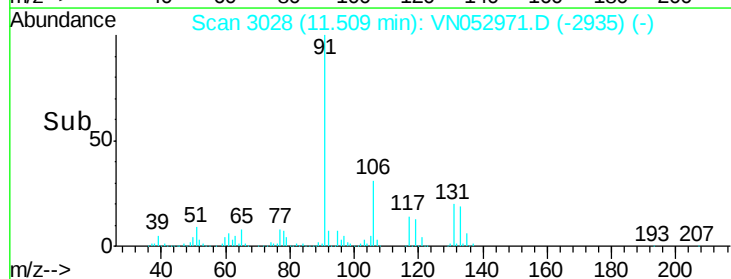
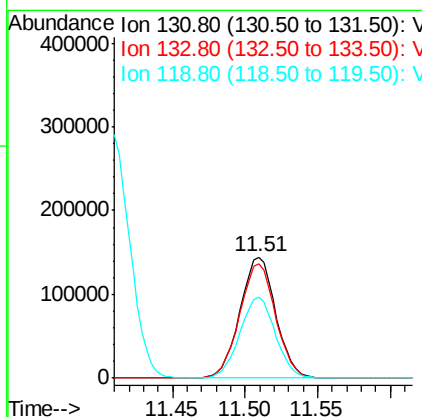
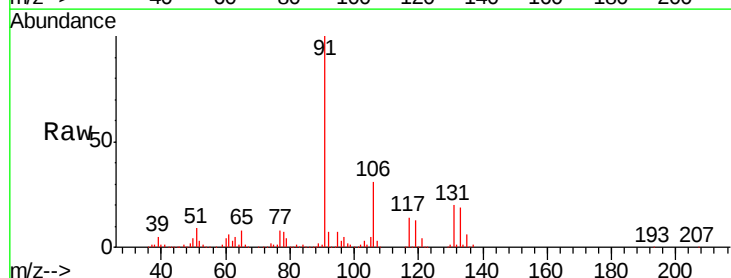
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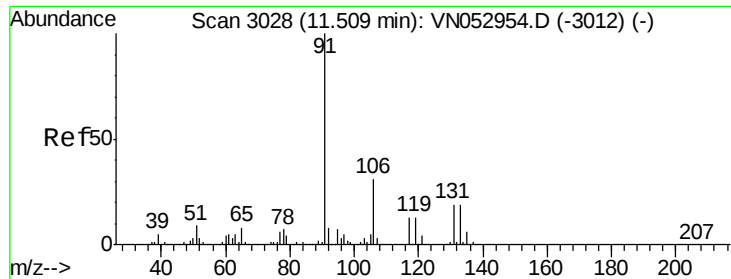
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.277 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion:131 Resp: 248020
Ion Ratio Lower Upper
131 100
133 94.9 47.6 142.9
119 66.6 33.3 99.8





#67

Ethyl Benzene

Concen: 20.061 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 91 Resp: 1213495

Ion Ratio Lower Upper

91 100

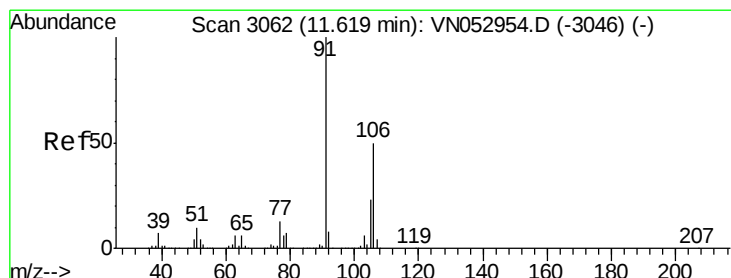
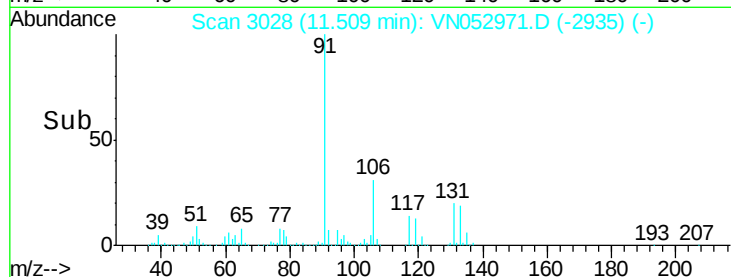
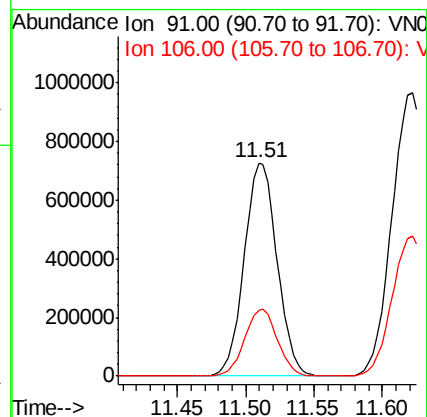
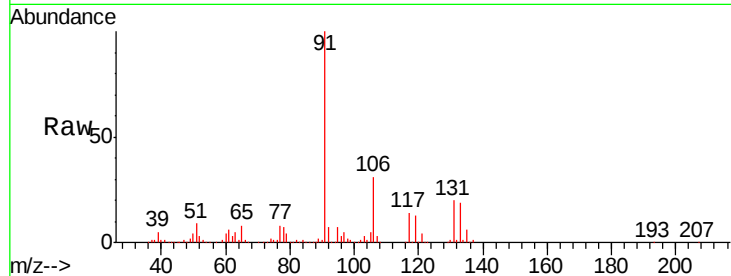
106 31.1 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 39.537 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052971.D

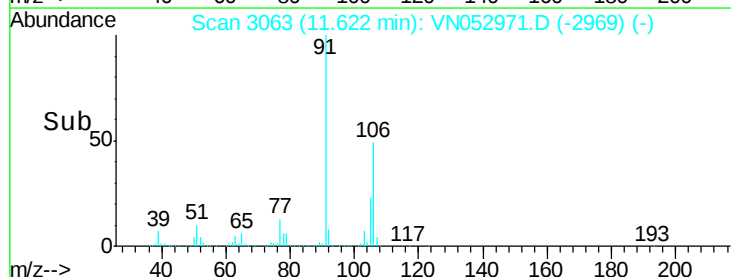
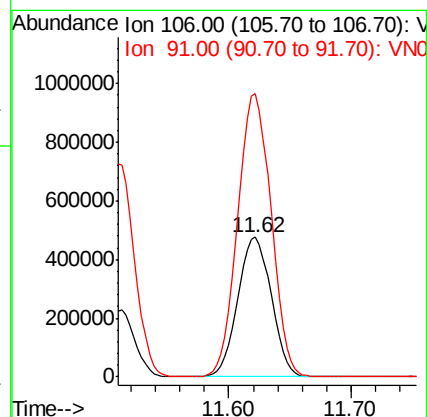
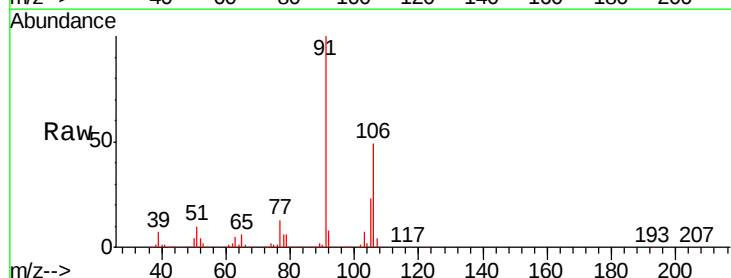
Acq: 18 Dec 2018 19:44

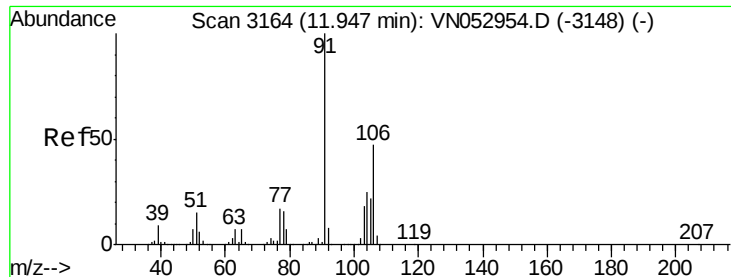
Tgt Ion: 106 Resp: 909169

Ion Ratio Lower Upper

106 100

91 202.0 162.2 243.4





#69

o-Xylene

Concen: 20.021 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion:106 Resp: 441772

Ion Ratio Lower Upper

106 100

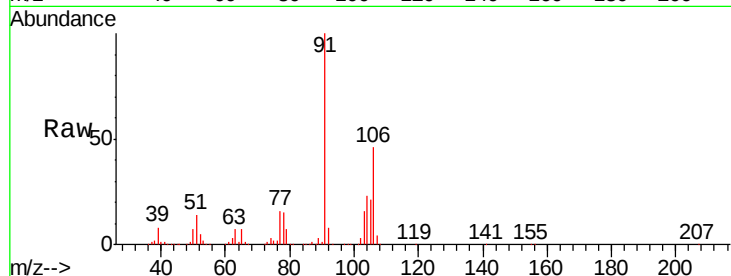
91 213.1 106.6 319.8

Manual Integrations

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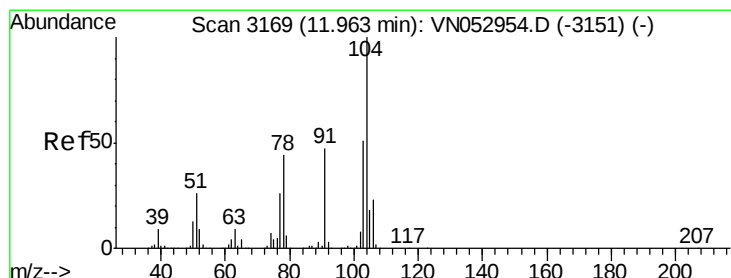
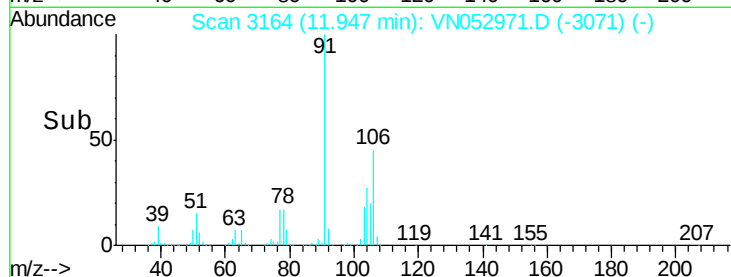
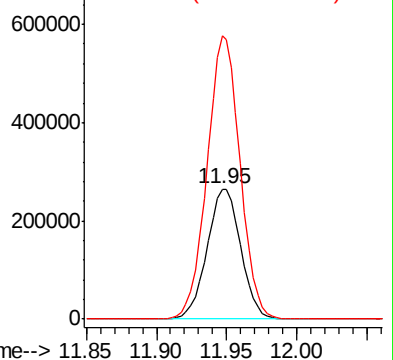
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 19.595 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

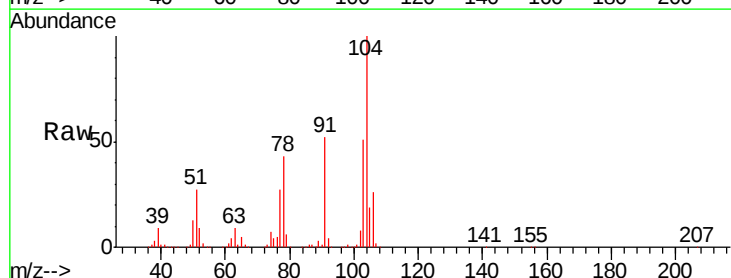
Tgt Ion:104 Resp: 705054

Ion Ratio Lower Upper

104 100

78 47.7 38.9 58.3

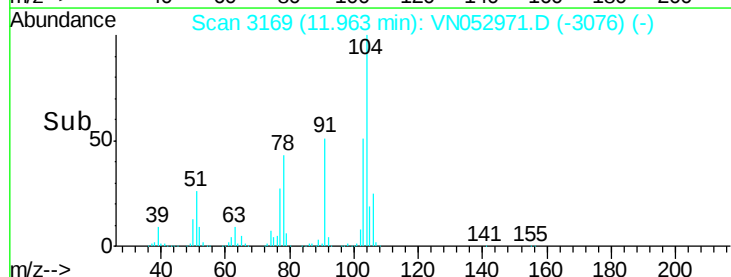
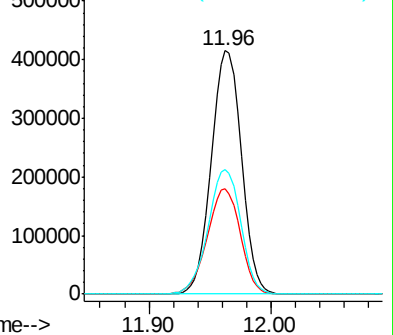
103 55.8 44.3 66.5

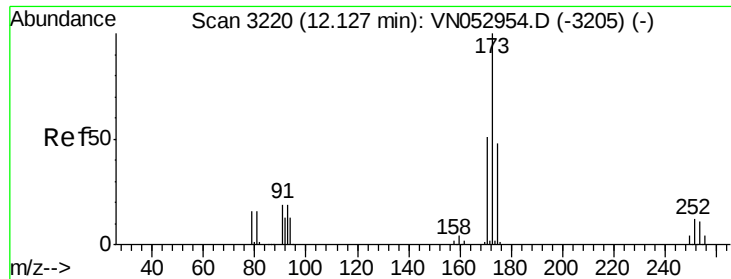


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





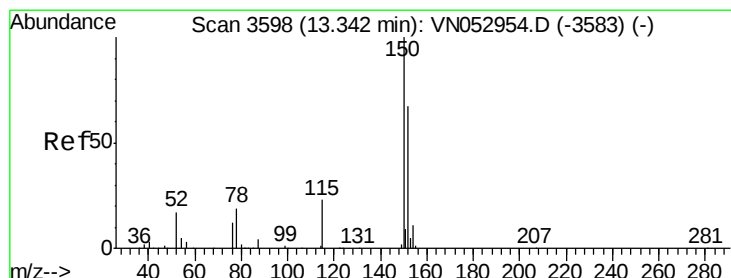
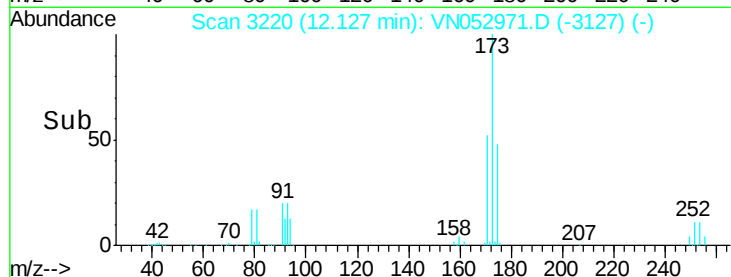
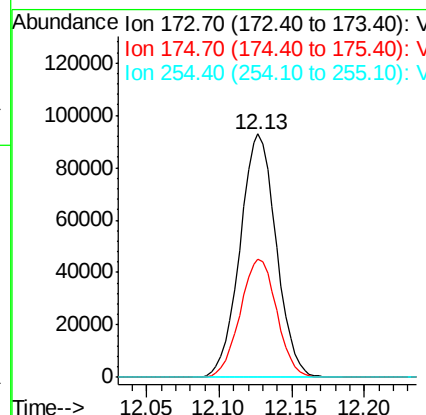
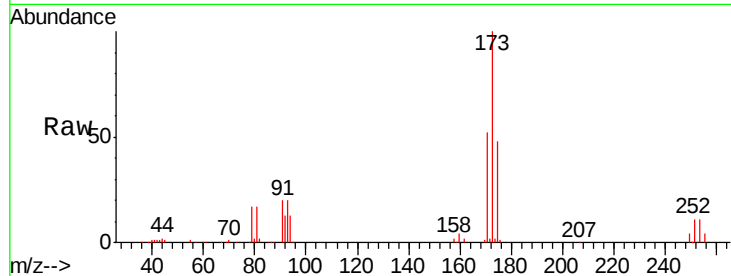
#71
Bromoform
Concen: 18.235 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.9
254	0.0	0.1	0.1#

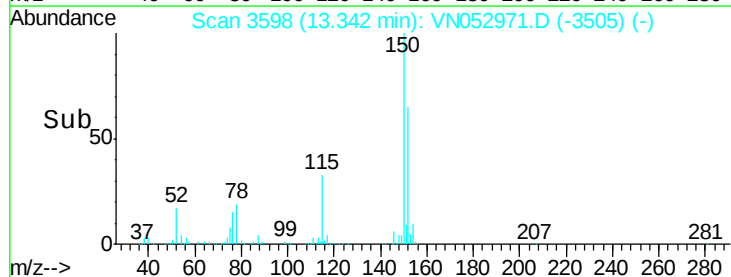
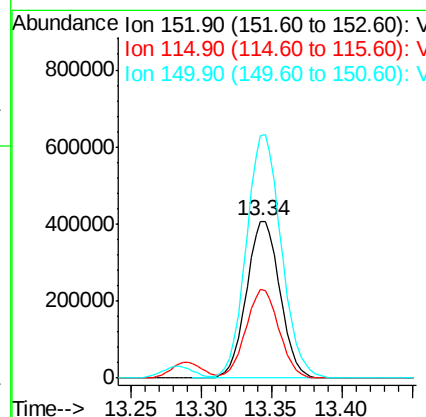
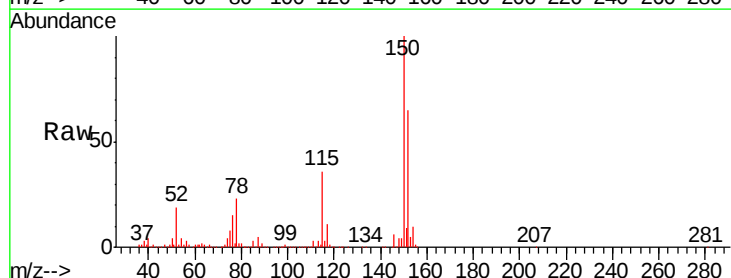
Manual Integrations
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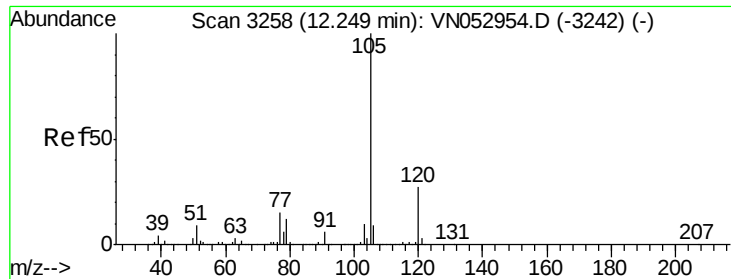
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.3	85.0
150	162.6	0.0	347.8





#73

Isopropylbenzene

Concen: 21.929 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 105 Resp: 1161418

Ion Ratio Lower Upper

105 100

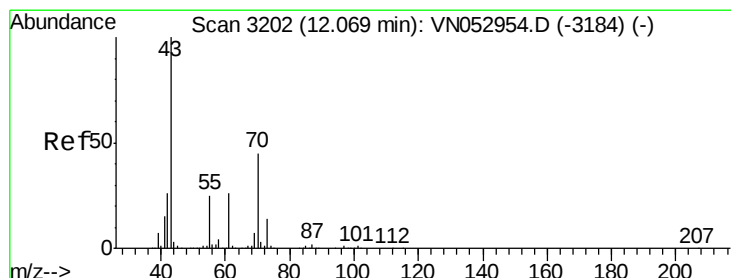
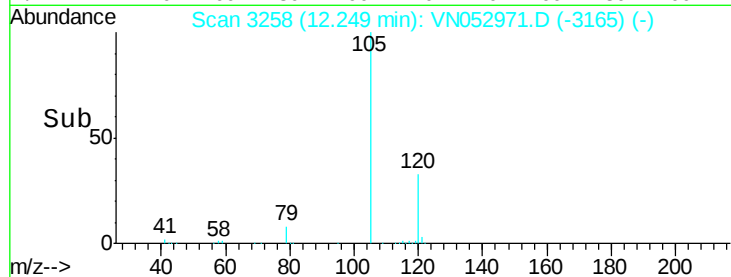
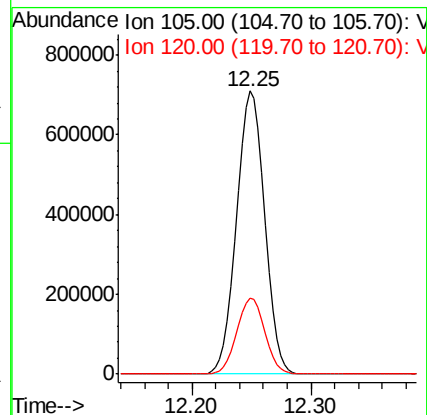
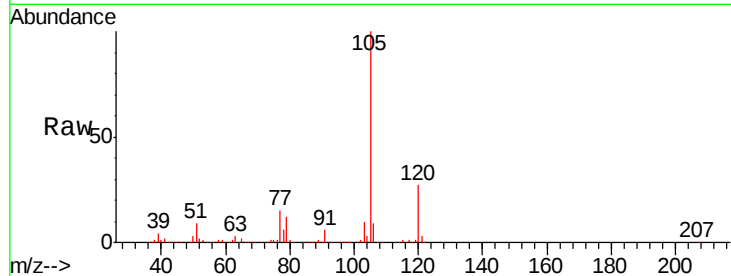
120 26.8 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 22.626 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion: 43 Resp: 332713

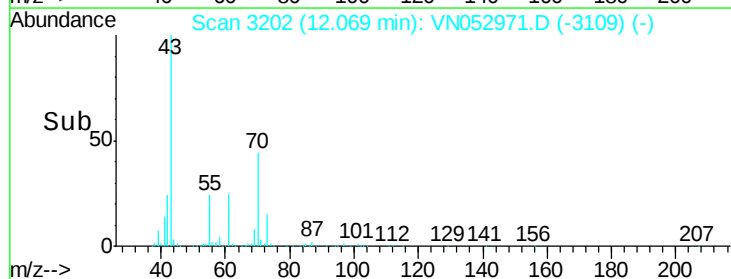
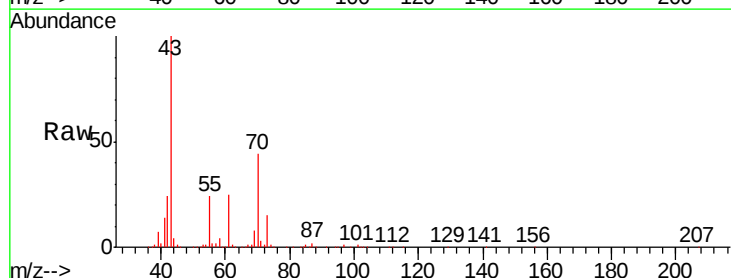
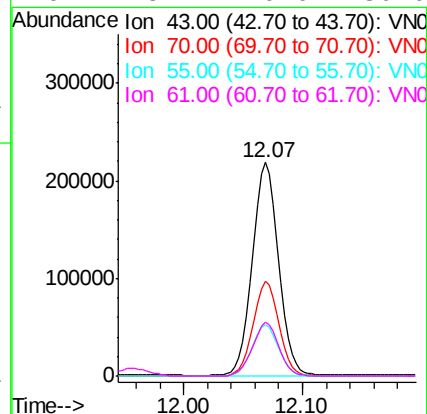
Ion Ratio Lower Upper

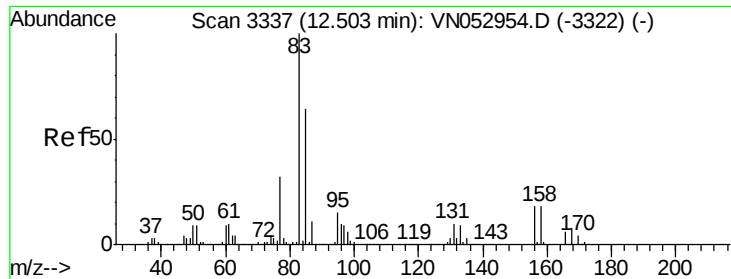
43 100

70 43.9 34.2 51.4

55 24.3 20.3 30.5

61 25.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.736 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 83 Resp: 236238
Ion Ratio Lower Upper

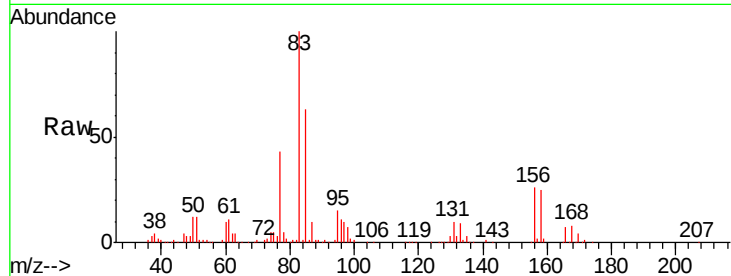
83 100

131 10.5 5.2 15.6

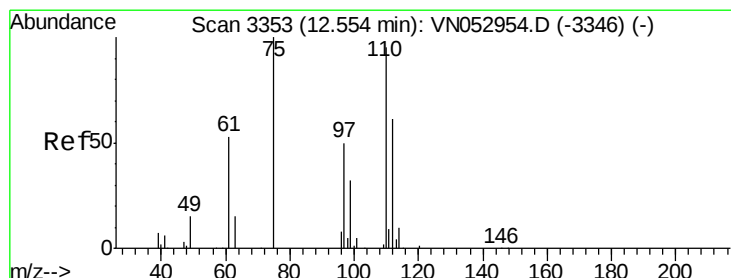
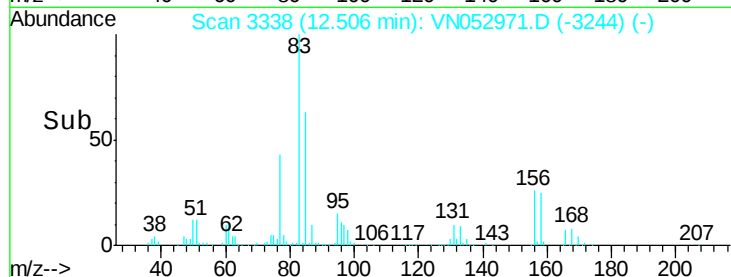
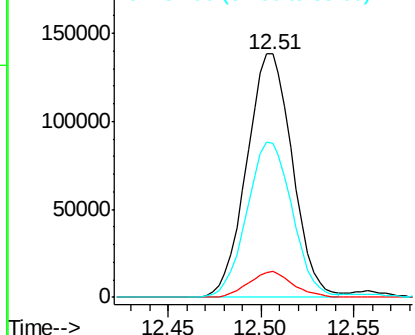
85 63.6 32.4 97.0

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN
Ion 84.90 (84.60 to 85.60): VN



#76

1,2,3-Trichloropropane

Concen: 20.311 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

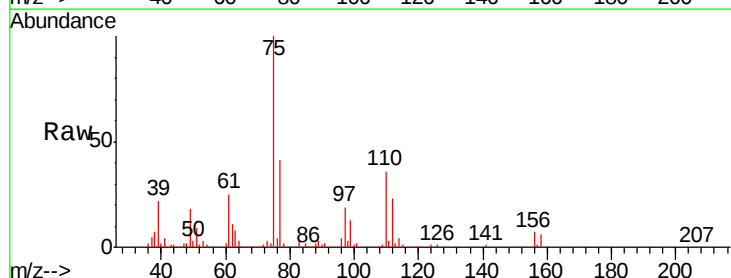
Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

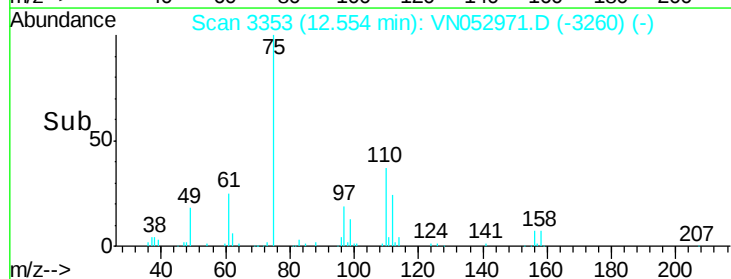
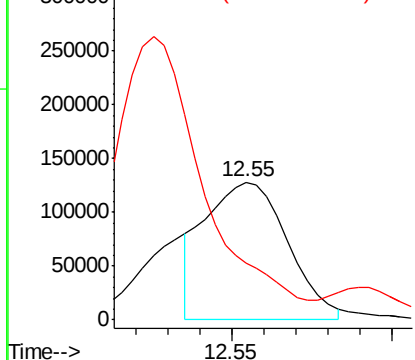
Tgt Ion: 75 Resp: 231456
Ion Ratio Lower Upper

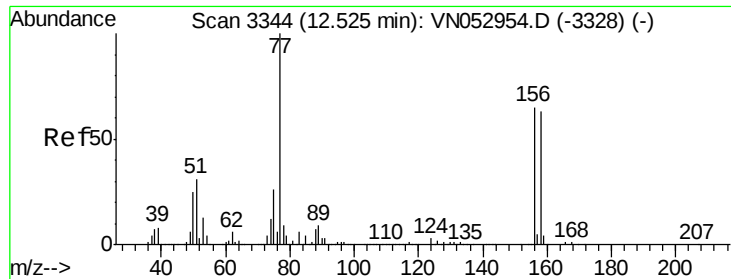
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN





#77

Bromobenzene

Concen: 21.608 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

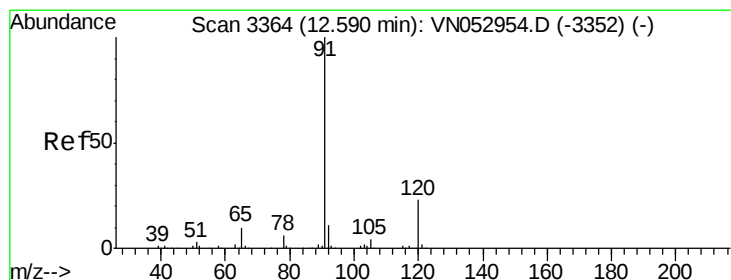
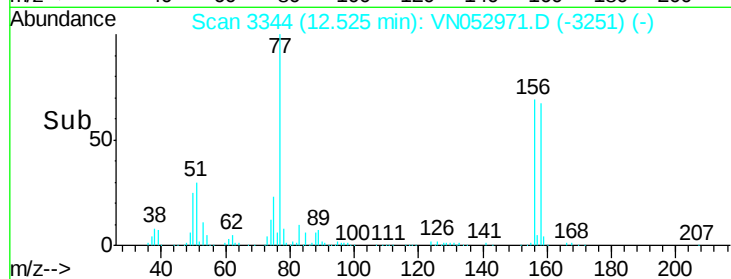
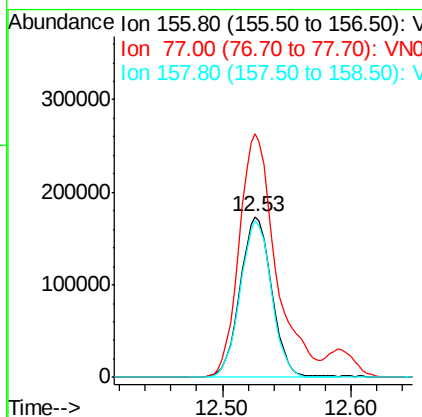
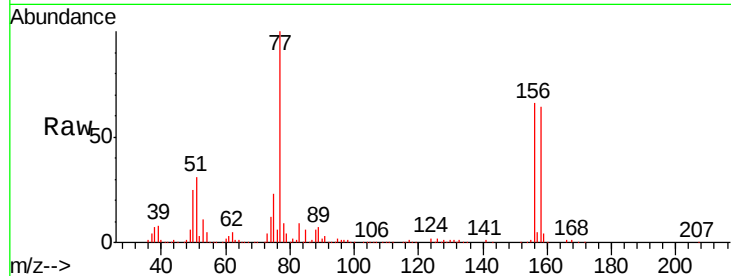
ClientSampleId :

VN1218MBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	297488		
77	174.6	91.3	273.8	
158	95.6	49.0	147.2	

Manual Integrations
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#78

n-propylbenzene

Concen: 21.188 ug/l

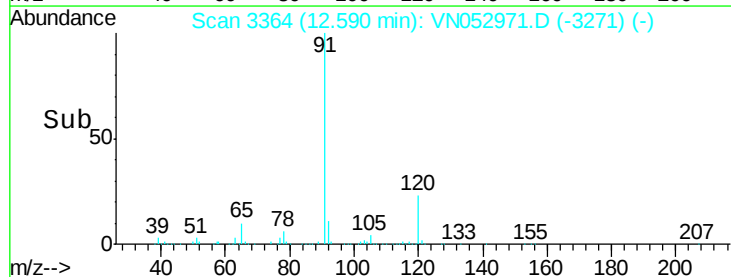
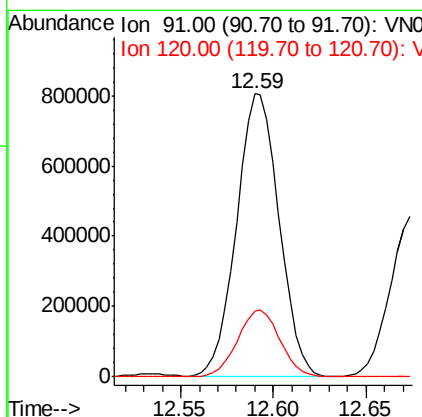
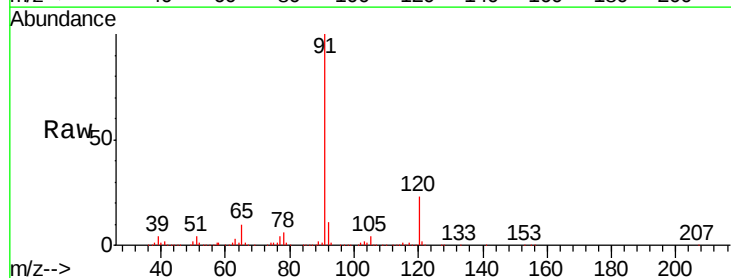
RT: 12.59 min Scan# 3364

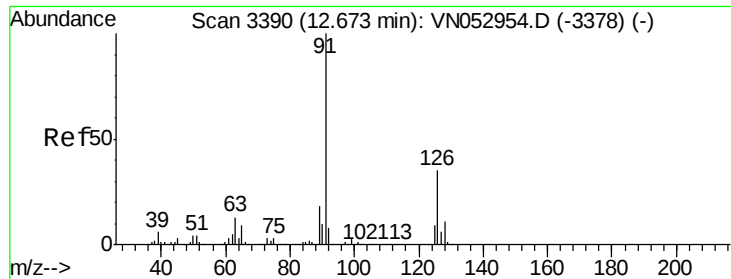
Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1278063		
120	23.6	11.5	34.5	





#79

2-Chlorotoluene

Concen: 20.197 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD01

Tgt Ion: 91 Resp: 755151

Ion Ratio Lower Upper

91 100

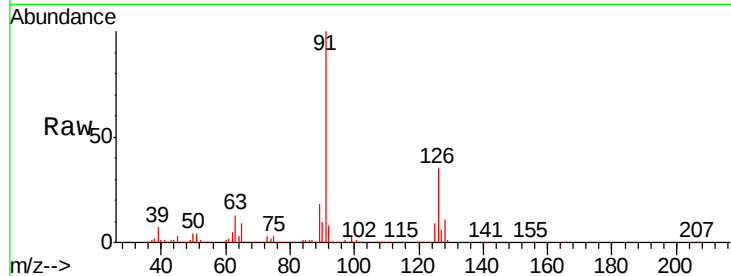
126 35.3 17.4 52.3

Manual Integrations

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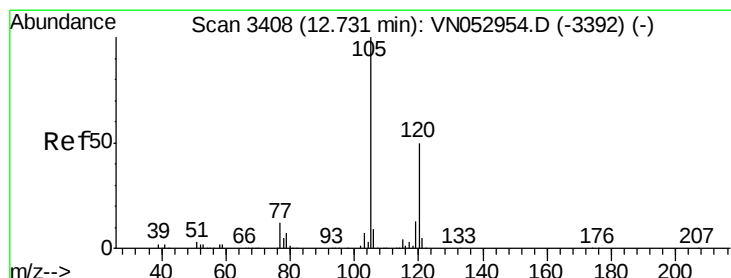
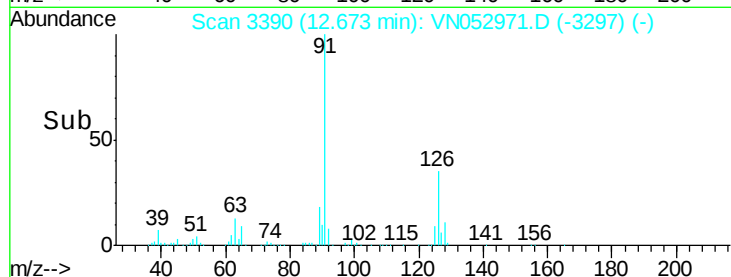
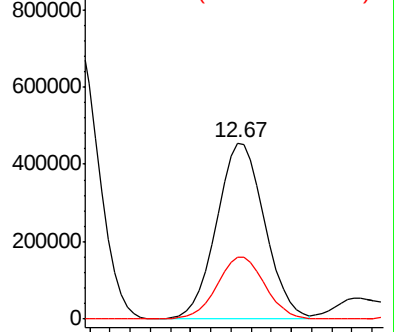
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Abundance Ion 91.00 (90.70 to 91.70): VN052971.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN052971.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.648 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052971.D

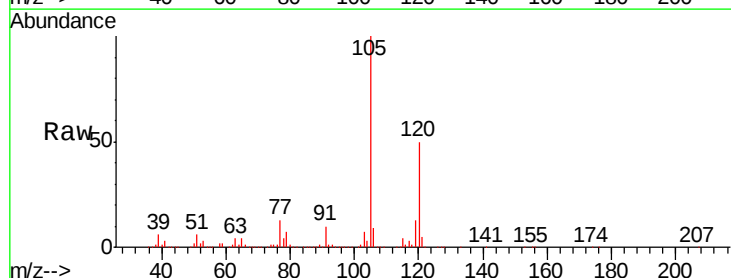
Acq: 18 Dec 2018 19:44

Tgt Ion: 105 Resp: 891372

Ion Ratio Lower Upper

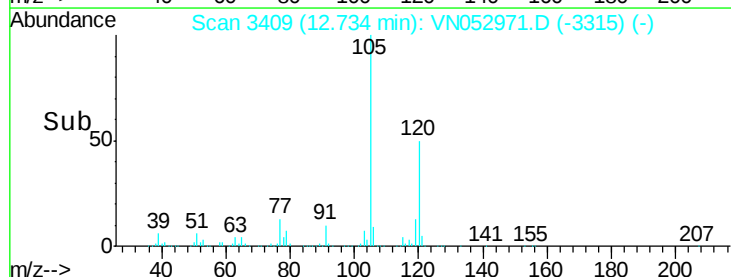
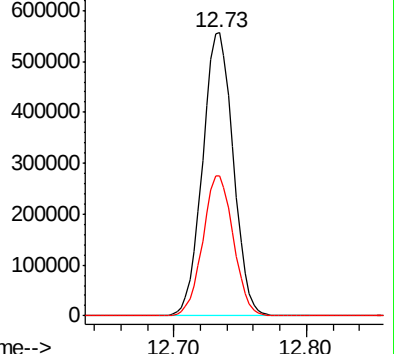
105 100

120 49.6 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052971.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN052971.D (-3315) (-)





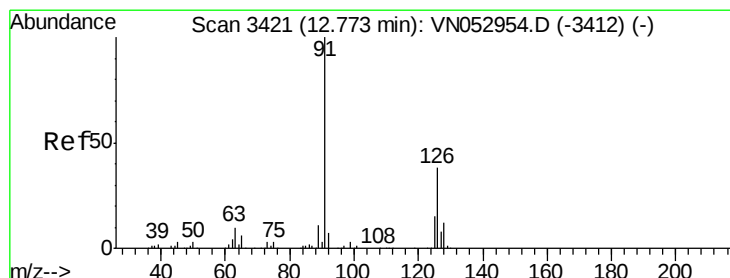
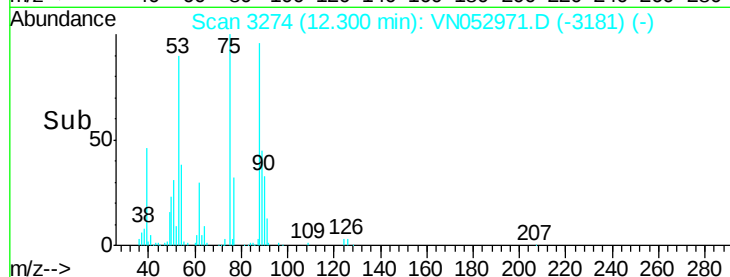
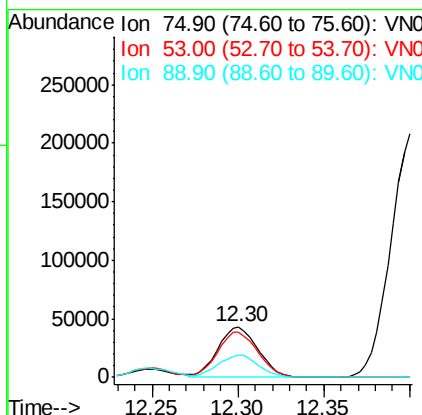
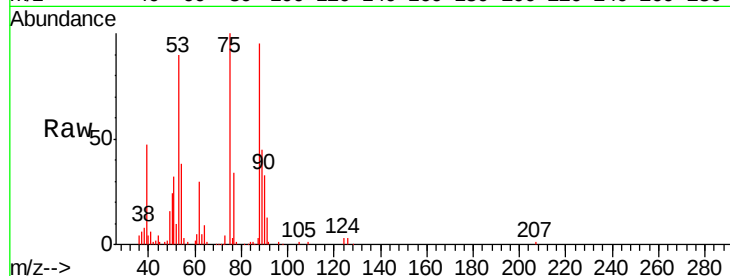
#81
trans-1,4-Dichloro-2-butene
Concen: 20.013 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	90.5	74.7	112.1
89	44.0	36.1	54.1

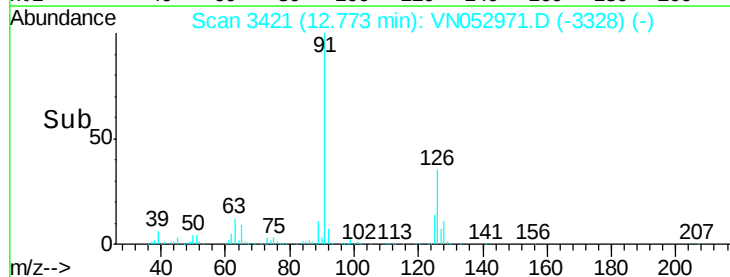
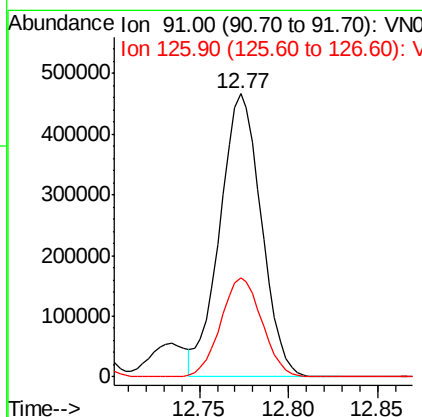
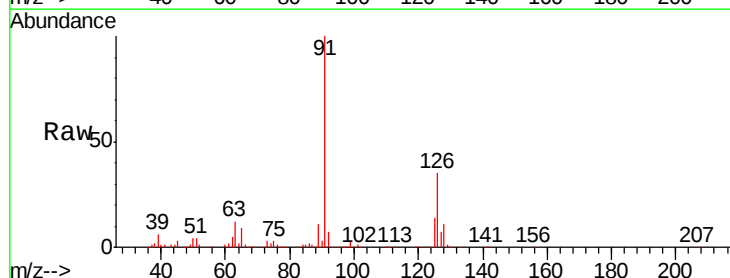
Manual Integrations
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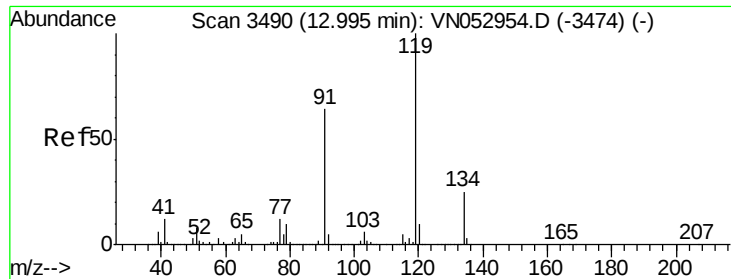
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#82
4-Chlorotoluene
Concen: 20.499 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7





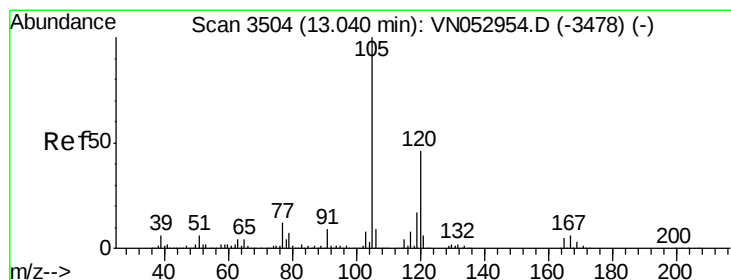
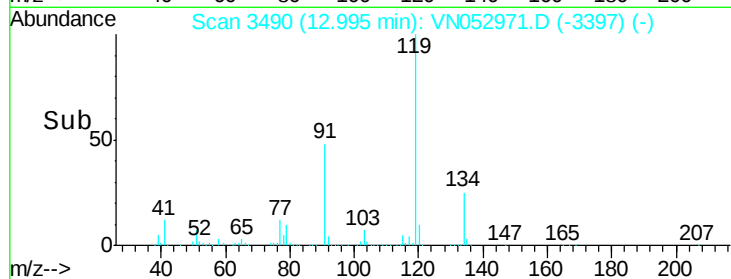
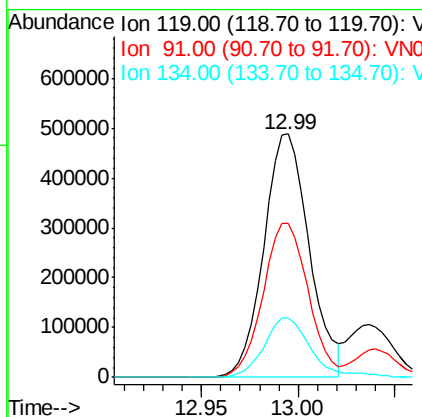
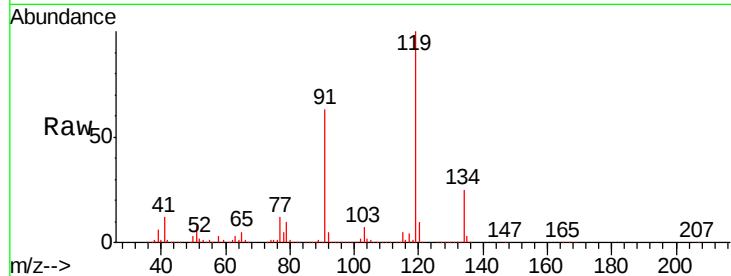
#83
 tert-Butylbenzene
 Concen: 20.844 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	795812		
91	62.9		31.9	95.5
134	25.6		12.8	38.4

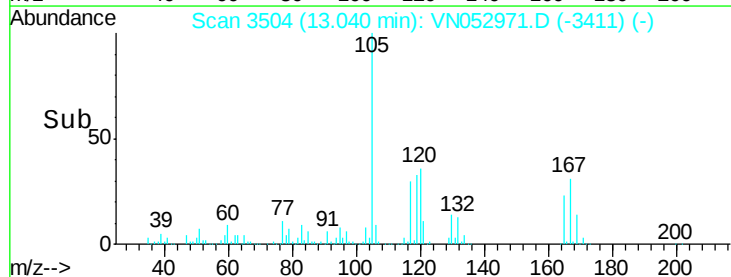
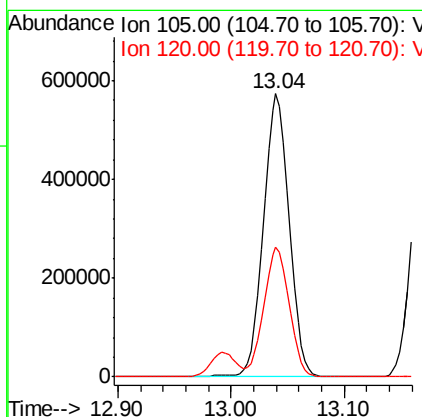
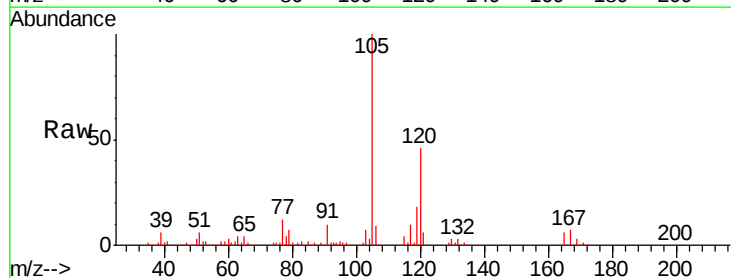
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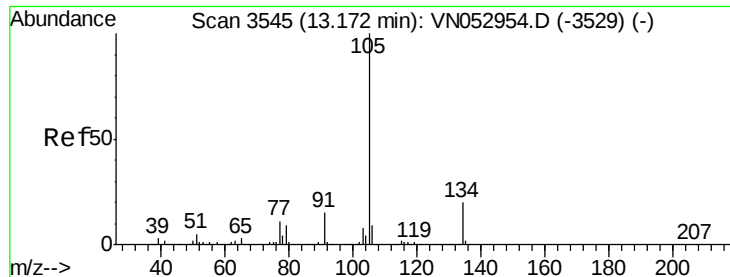
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.783 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	901933		
120	45.5		22.9	68.8





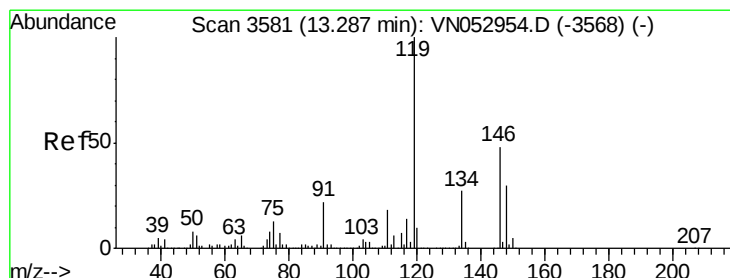
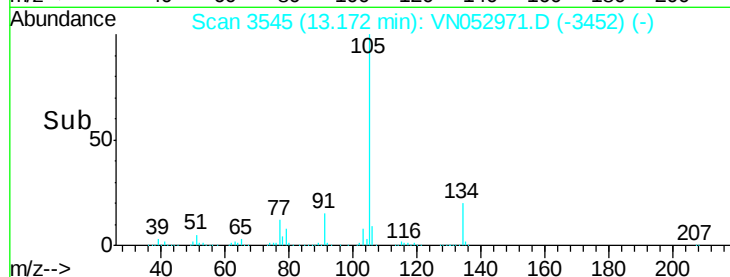
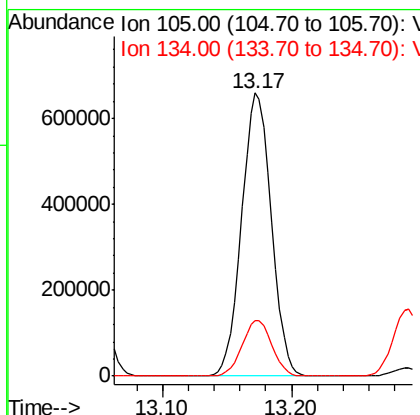
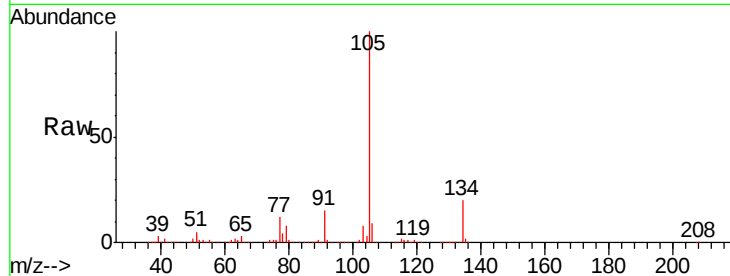
#85
 sec-Butylbenzene
 Concen: 20.373 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion:105 Resp: 1052120
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.1 30.3

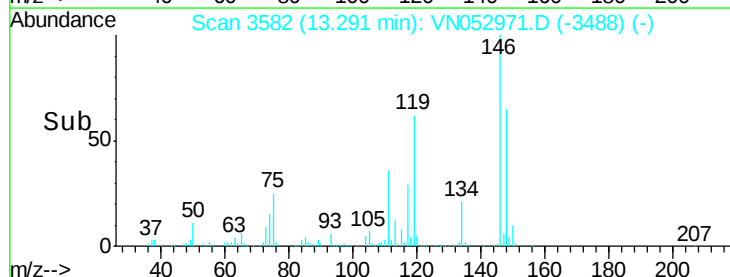
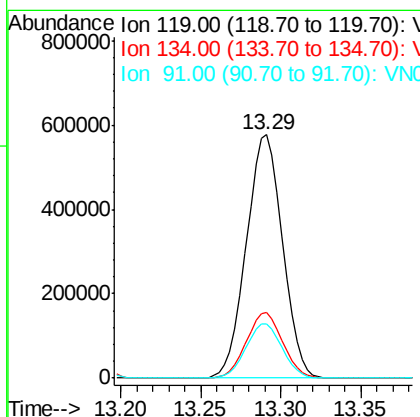
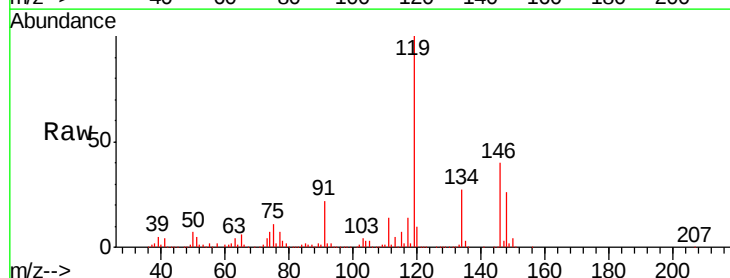
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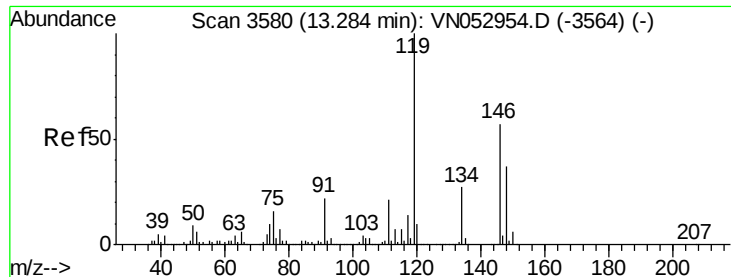
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#86
 p-Isopropyltoluene
 Concen: 19.992 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion:119 Resp: 892099
 Ion Ratio Lower Upper
 119 100
 134 26.8 13.4 40.2
 91 22.3 11.1 33.3





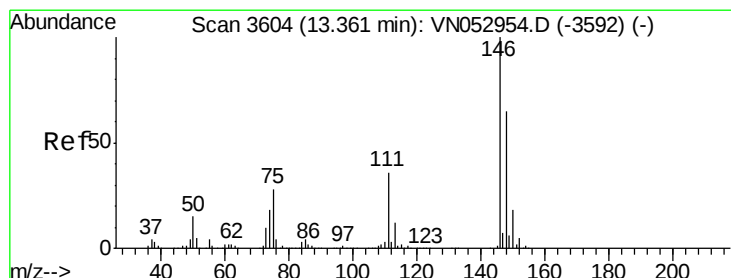
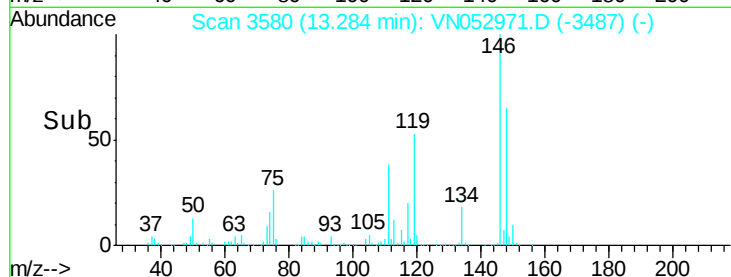
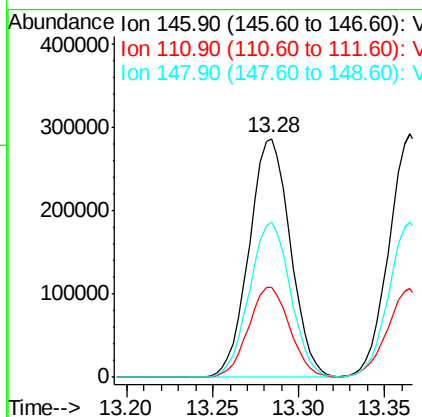
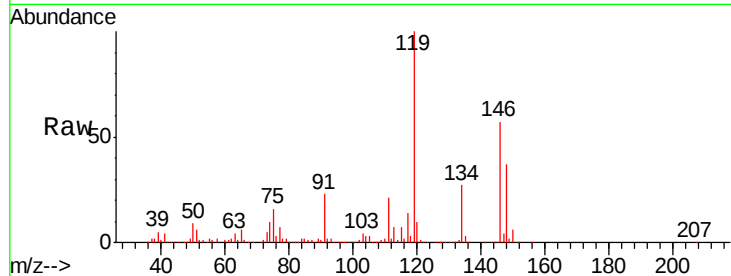
#87
 1,3-Dichlorobenzene
 Concen: 19.574 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.1
148	64.8	32.0	96.0

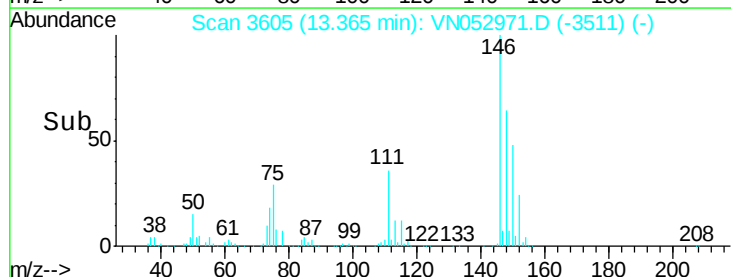
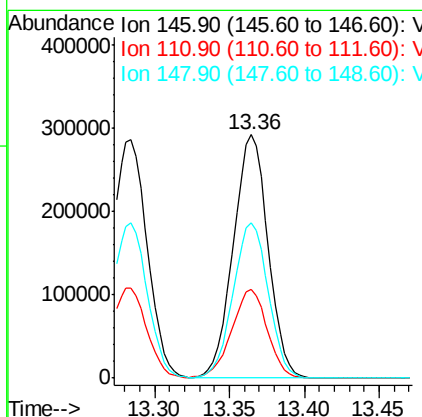
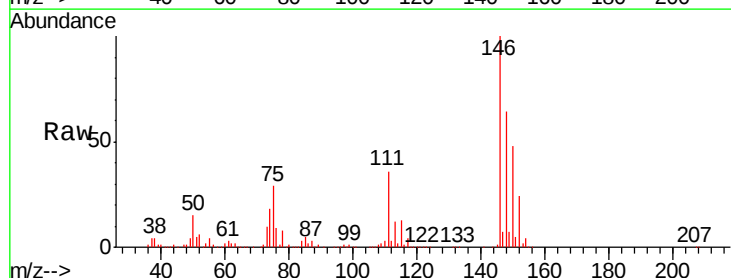
Manual Integrations
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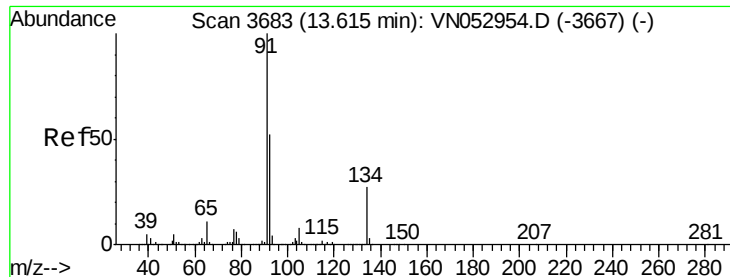
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#88
 1,4-Dichlorobenzene
 Concen: 19.154 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052971.D
 Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.6	55.8
148	64.5	32.1	96.5





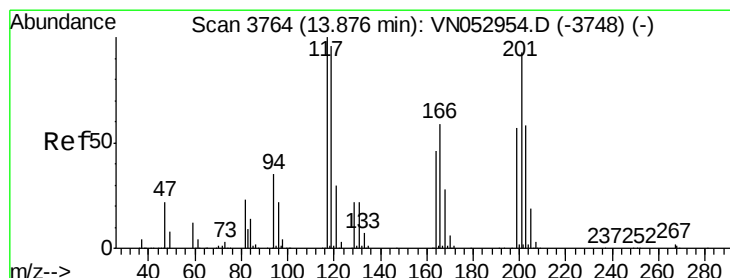
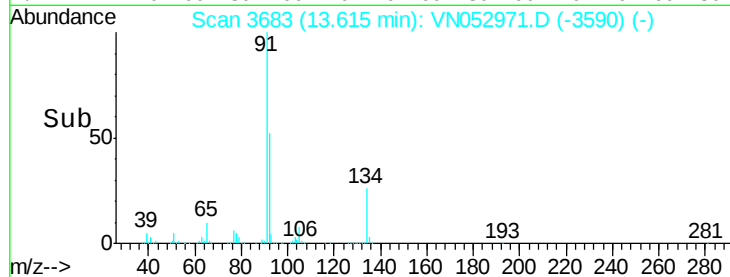
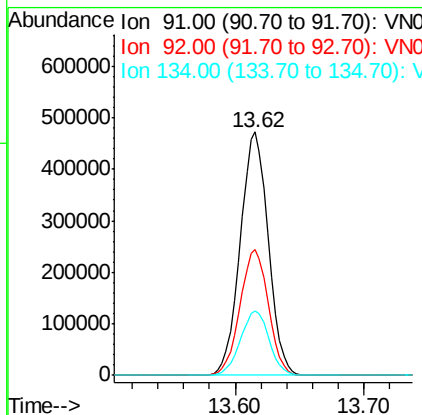
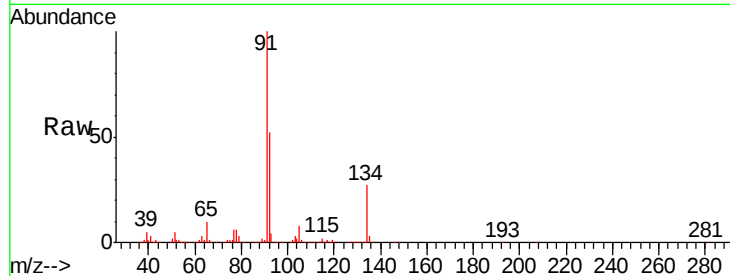
#89
n-Butylbenzene
Concen: 18.526 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.3	78.9
134	27.1	13.3	39.8

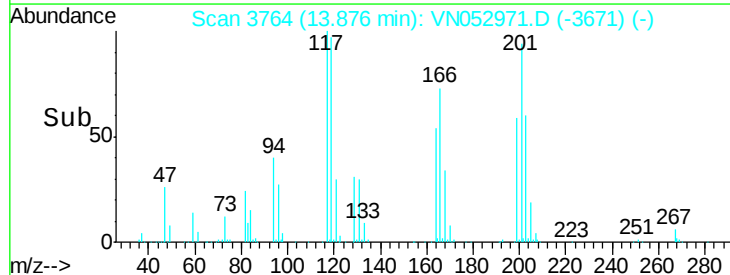
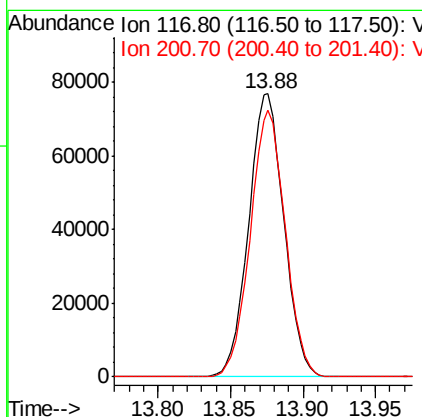
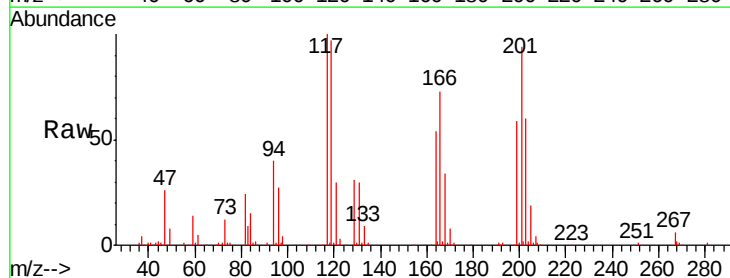
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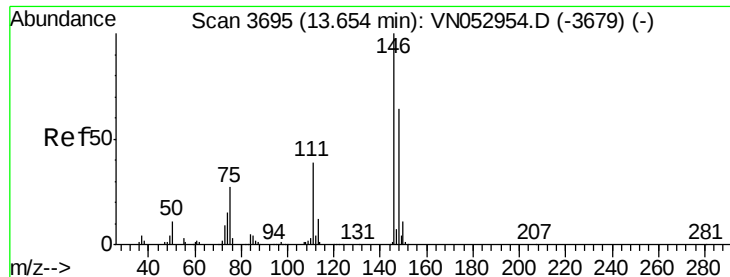
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#90
Hexachloroethane
Concen: 18.982 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052971.D
Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.3	45.7	137.1





#91

1,2-Dichlorobenzene

Concen: 19.694 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

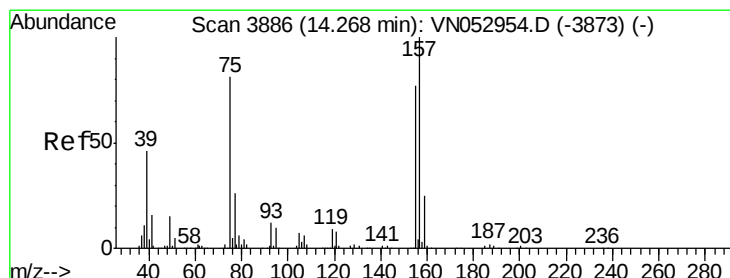
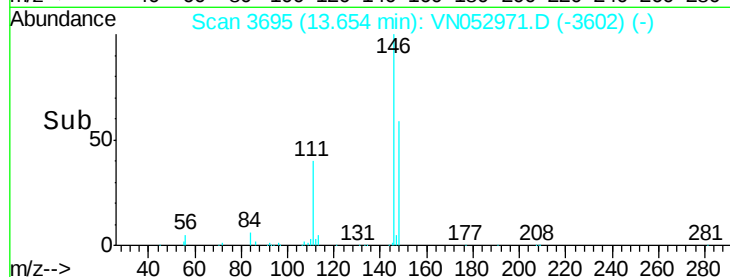
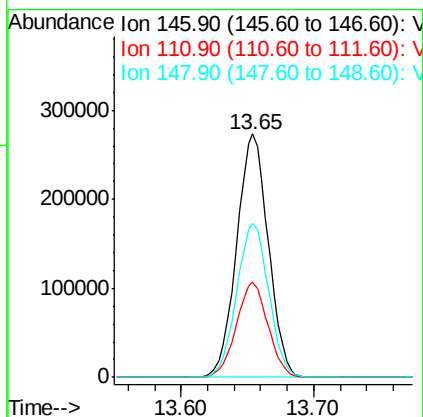
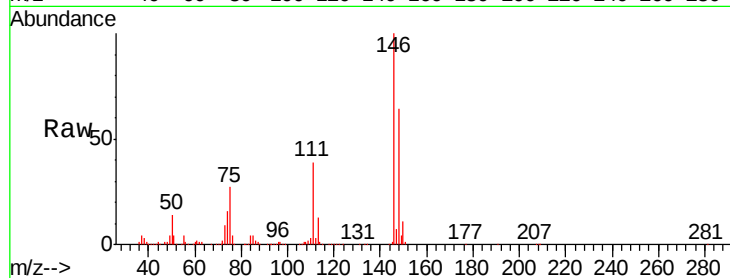
ClientSampleId :

VN1218MBSD01

Tgt Ion:	146	Resp:	451643
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.7	59.0
148	64.1	32.0	96.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 19.085 ug/l

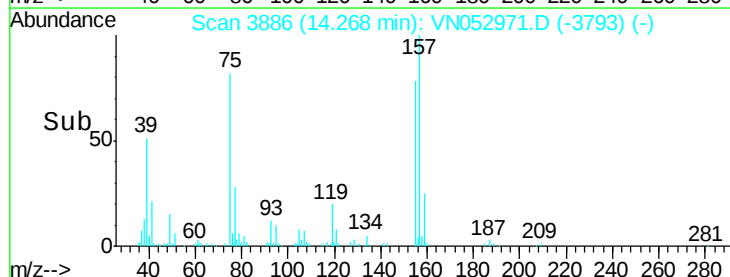
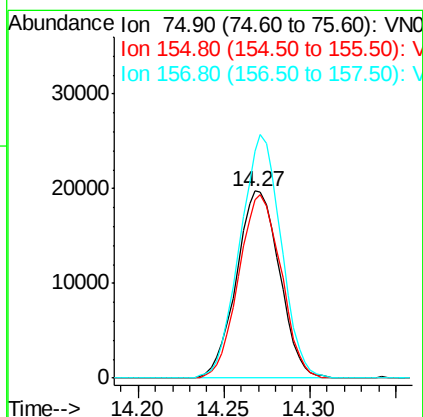
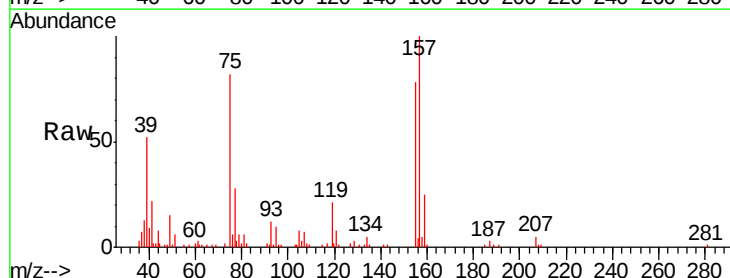
RT: 14.27 min Scan# 3886

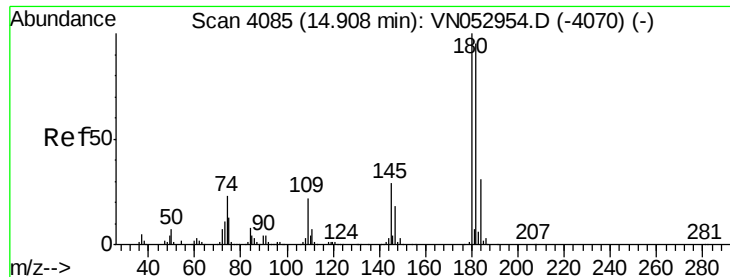
Delta R.T. -0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion:	75	Resp:	34288
Ion Ratio	Lower	Upper	
75	100		
155	95.9	48.2	144.6
157	124.8	61.2	183.5





#93

1,2,4-Trichlorobenzene

Concen: 19.608 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

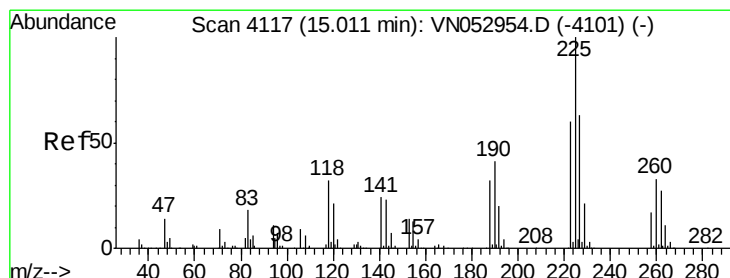
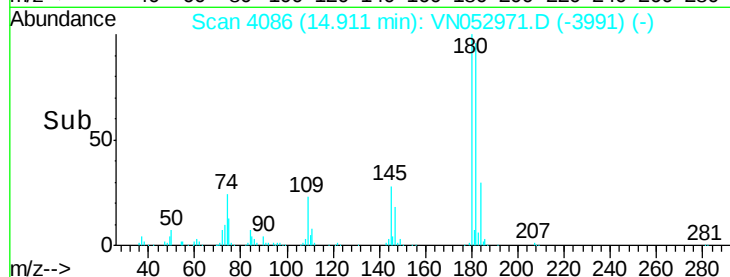
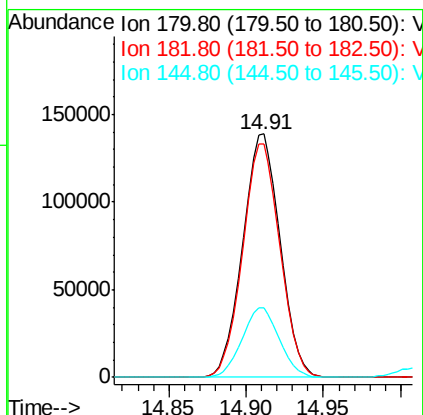
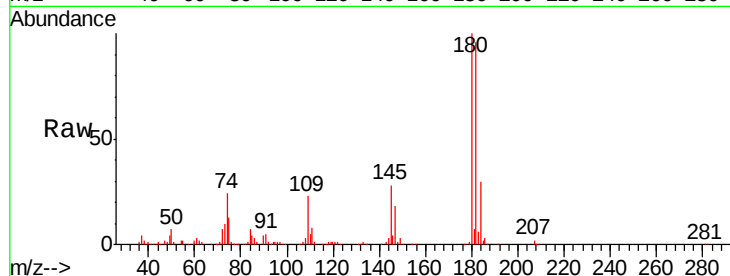
ClientSampleId :

VN1218MBSD01

Tgt Ion:	180	Resp:	233778
Ion Ratio	Lower	Upper	
180	100		
182	95.6	47.8	143.3
145	28.7	14.2	42.6

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:07:18 PM



#94

Hexachlorobutadiene

Concen: 19.818 ug/l

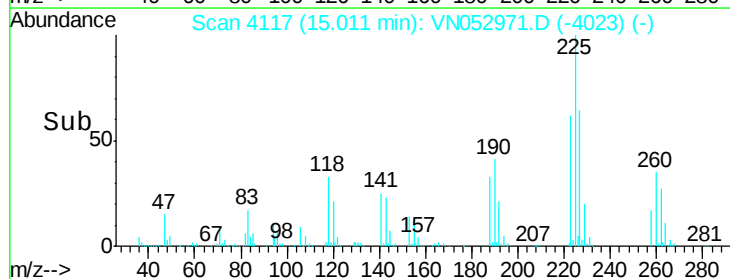
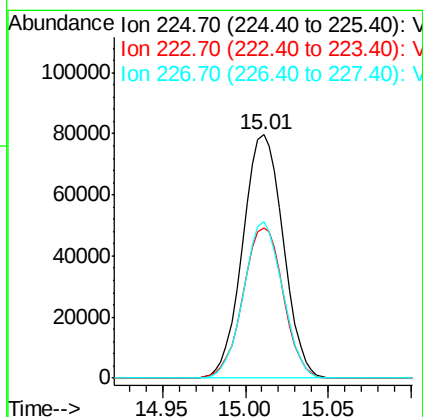
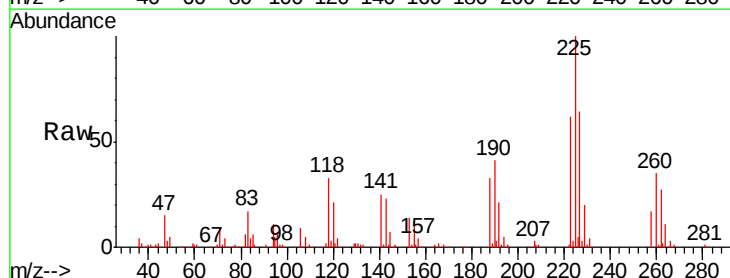
RT: 15.01 min Scan# 4117

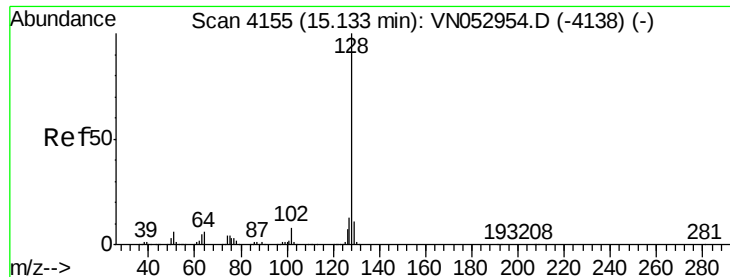
Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion:	225	Resp:	135578
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.5	94.5
227	62.1	31.9	95.7





#95

Naphthalene

Concen: 19.836 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Instrument :

MSVOA_N

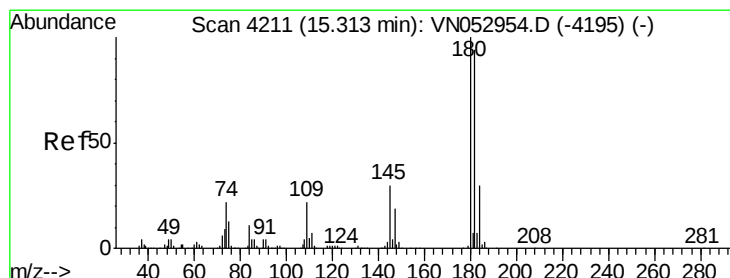
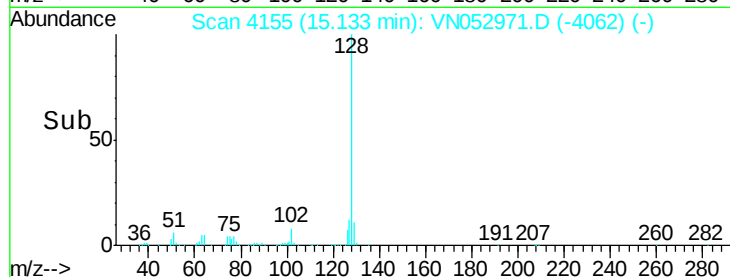
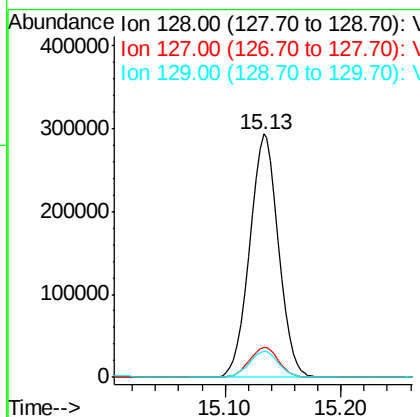
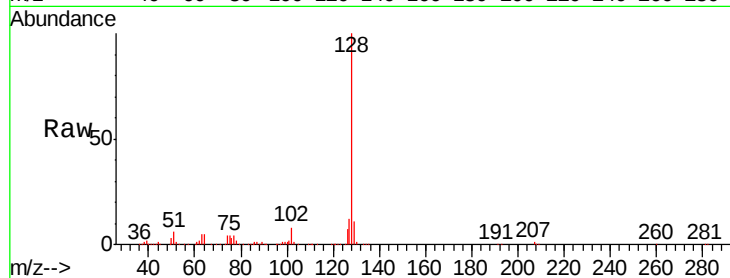
ClientSampleId :

VN1218MBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	509086		
127	12.7	10.2	15.4	
129	11.0	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:07:18 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.950 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052971.D

Acq: 18 Dec 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	214898		
182	94.7	47.9	143.7	
145	29.9	15.0	45.0	

